DESTIN CITY COUNCIL MEETING
OCTOBER 20, 2025
ANNEX COUNCIL CHAMBERS
6:00 PM

*****Core Value of the Month - Transparency*****

CALL TO ORDER

*** INVOCATION (Pastor Kevin Wendt, Grace Lutheran Church)**

PLEDGE OF ALLEGIANCE

AGENDA APPROVAL

1. **PROCLAMATIONS / RECOGNITIONS / SPECIAL / **PUBLIC PRESENTATIONS / ANNOUNCEMENTS**
   A. Choctawhatchee Basin Alliance - Annual NPDES/Water Quality Presentation
2. **PUBLIC COMMENTS (Section 5 - Public Hearings has separate public comments time for these items)** (Note: Individual speakers will be limited to 3 minutes. At the discretion of the mayor, this 3 minute allowance may be adjusted depending on the level of business coming before the City Council)
3. ***** CONSENT AGENDA**
   A. Main Street Betterment Alliance of Destin Veteran's Day 5k
   B. Approval of minutes of October 6, 2025, Council Executive Session
   C. Approval of minutes of September 15, 2025, Regular City Council Meeting
4. **CITY MANAGER REPORTS** Announcements
   A. FDOT State Funded Grant Agreement G3G09 and Resolution 25-22
   B. Florida Retirement System (FRS) - Motion to Rescind Previous Action by the Council
   C. Short Term Rental Software RFP Results Update
   D. Threadgill Parking Update
   E. Volunteer Committees/Boards Quarterly Attendance Report — Informational Only
   F. Announcements
5. **PUBLIC HEARINGS**
   A. Destin Elementary School Addition – A Major Development Order (DEV-001522-2025)
   B. The Shores At Crystal Beach – A Major Development Order (DEV-001655-2025)
6. **COMMENTS / PRESENTATIONS FROM MAYOR, COUNCIL, AND CITY ATTORNEY**
   A. Councilmember Braden
   B. Councilmember Trammell
   C. Councilmember Destin
   D. Councilmember Bagby
   E. Councilmember Hebert

F. Councilmember Geile
   1) Projects Status/Updates

G. Councilmember Schmidt

   1) Charter Review Committee

H. Mayor Wagner

I. City Attorney

   1) Pursuant to Section 286.011(8), Florida Statutes, the City Attorney desires the advice of counsel at an executive session on December 1, 2025, at 5:30 PM in the following litigation: F129 v. City of Destin (2023-CA-003643), in the Circuit Court of Okaloosa County, Florida. Present at the litigation will be the City Attorney Kimberly Kopp, Litigation Counsel William Warner, City Manager Larry Jones, the Mayor and all members of the City Council.

7. PUBLIC COMMENTS

8. ADJOURN

****** Any invocation that is offered before the official start of the City Council meeting shall be the voluntary offering of a private person, to and for the benefit of the City Council. The views or beliefs expressed by the invocation speaker have not been previously reviewed or approved by the City Council, or the City staff, and the City is not allowed by law to endorse the religious beliefs or views of this, or any other speaker. Persons in attendance at the City Council meeting are invited to stand during the opening invocation and Pledge of Allegiance. However, such invitation shall not be construed as a demand, order, or any other type of command. No person in attendance at the meeting shall be required to participate in any opening invocation that is offered. A person may exit the City Council Chambers and return upon completion of the opening invocation if a person does not wish to participate in or witness the opening invocation.***

Persons with disabilities who require assistance to participate in City meetings are requested to notify the City Clerk's Office at (850) 837-4242 in advance. Hearing Impaired: TTY: 711. Assistance also available through Human Resources, Title VI Coordinator, at (850) 837-4242.

Personas con discapacidades que necesitan asistencia o personas que necesiten ayuda con un idioma para participar en las reuniones de la ciudad, deberán notificar la oficina de la Secretaria Municipal al (850) 837-4242 antes de la reunión. Discapacidad auditiva: TTY: 711 (Solicitar Espanol CA). La ayuda tambien está disponible por Recursos Humanos, Coordinador del Título VI, al (850) 837-4242.

ITEM # 2025-1204

CITY OF DESTIN

AGENDA ITEM

COUNCIL MEETING DATE: October 20, 2025
TYPE OF AGENDA ITEM: Presentation
AGENDA OUTLINE NUMBER: 1.A.

TO: City Council

THRU: Larry Jones , City Manager

FROM: Michael Burgess, Public Works Director

DATE: 10/14/2025

SUBJECT: Choctawhatchee Basin Alliance - Annual NPDES/Water Quality Presentation

I. BACKGROUND: The Choctawhatchee Basin Alliance (CBA) contracts annually with the City and provides services which are required for compliance with our National Pollutant Discharge Elimination System (NPDES) Phase II Municipal Separate Sewer System (MS4) Stormwater Discharge Permit through the Florida Department of Environmental Protection (FDEP). The CBA organizes volunteers to collect water quality data and educates the public through mailers, special events, and K-12 stormwater education programs.

CBA staff will be at the meeting on October 20, 2025, to provide a program update and answer questions.

II. DISCUSSION: The CBA presentation will describe how their efforts have supported the City's of Destin's NPDES Stormwater Program and will report on this past year's water quality results.

A. Link to Strategic Goals / Objectives: I. Financially Sound City providing Service Excellence
VI. A Green and Sustaniable Environment

B. Effect on Budget (EOB): This is an informational presentation.

C. Level of Service (LOS): This is an informational presentation.

D. Legislative Sponsor:

E. Business Impact Statement:

III. CONCLUSION: This is an informational presentation.

IV. RECOMMENDED MOTION: No motion is required.

ITEM # 2025-1204

Attachments:

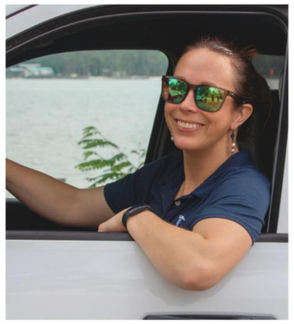
1. Destin NPDES CBA Presentation Oct2025

CBA and City of Destin NPDES Update

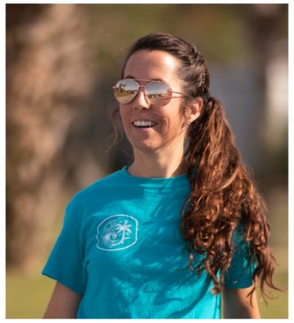
CHOCTAWHATCHEE BASIN ALLIANCE
Northwest Florida State College

October 2025
Kayla Wingard
Monitoring Program Manager







Mission Statement

The Choctawhatchee Basin Alliance (CBA) is a non-profit organization responsible for sustaining healthy local waterways through monitoring, education, restoration, and research.

CBA
CHOCTAWHATCHEE BASIN ALLIANCE
Northwest Florida State College



Monitoring



Education



Restoration

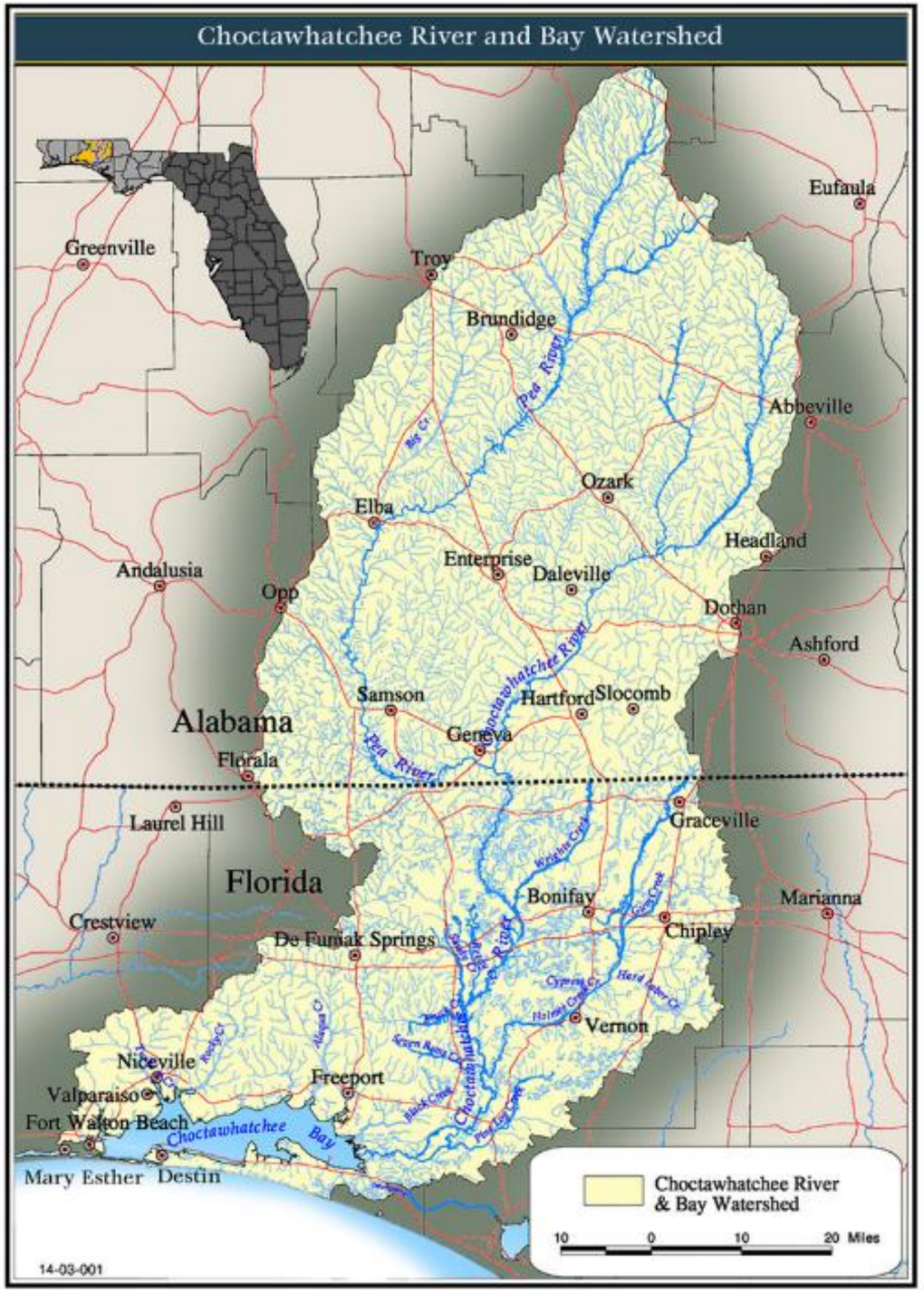


Research

CBA Program Areas

CHOCTAWHATCHEE WATERSHED

- Watershed area is over 5,000 mi^2
- One main river on east side of watershed
- Most of the watershed is in Alabama
- Major land use is Agricultural/ Forest/ Grasslands
- Most of the urban use is in Okaloosa & Walton Counties





Destin NPDES & CBA

Since 2003, the City of Destin has enacted programs to comply with the EPA's National Pollution Discharge Elimination System (NPDES), with the goals of:

- reducing discharge of pollutants to the maximum extent practicable
- protecting water quality, and
- satisfying water quality requirements of the Clean Water Act.

CBA partners with City of Destin to fulfill these NPDES requirements through:

- Public Education and Outreach
- Public Involvement and Participation
- Pollution Prevention / Good Housekeeping

Public Education and Outreach

CBA provides education programs to students and the public focused on place-based environmental science.



Destin Middle School

- 5th grade students participate in Grasses in Classes (GIC)
  - Salt marsh grasses grown at school
- CBA staff teach stormwater and environmental education with hands-on lessons in the classroom
- End-of-year field trip with CBA staff and volunteers at a Living Shoreline in the Spring

CBA Presentations

CBA presents current research and focused information in monitoring, restoration, and research for community groups.

Destin Forward Leadership Class
September 12th, 2025

Rotary Club of Destin
August 19th, 2025

Salt Strong Fishing Club
November 19th, 2024



Public Involvement / Participation

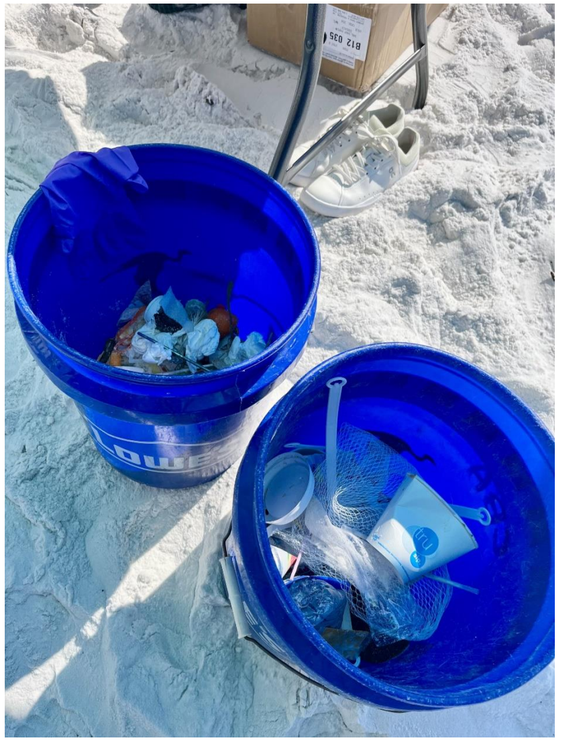
From coastal clean-ups to logging biodiversity observations,
there are ways for everyone to get involved!

Earth Day Beach Cleanup at Norriego Point – April 19th
International Coastal Cleanup at June White Decker Park – September 20th



Common Items
Cigarette butts
Bottle caps (plastic)
Strapping bands
Plastic/foam pieces
Other plastic waste
Food wrappers (candy, chips, etc.)
Cups, plates (plastic)
Straws/stirrers (plastic)
Other waste (metal, paper, etc.)
Food containers (foam)

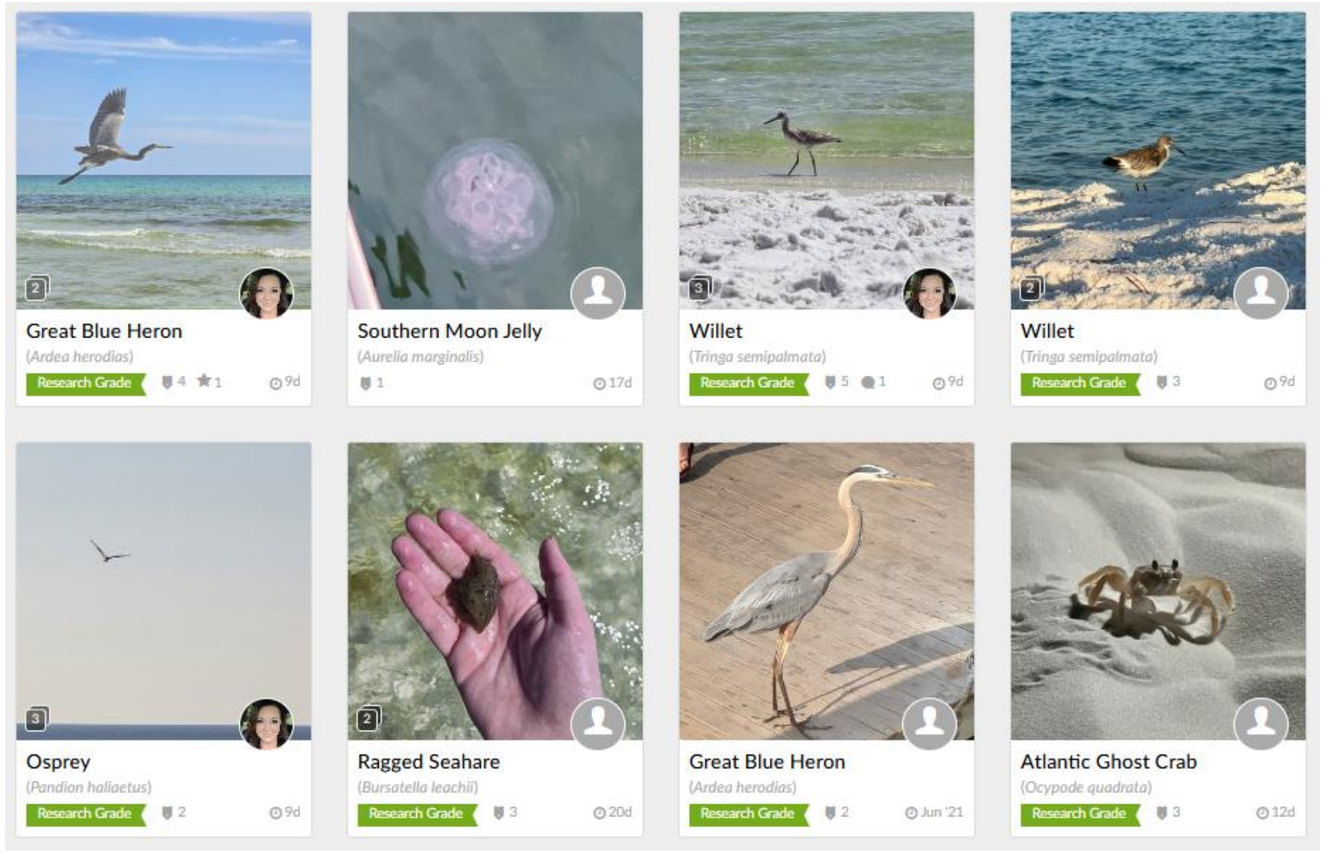


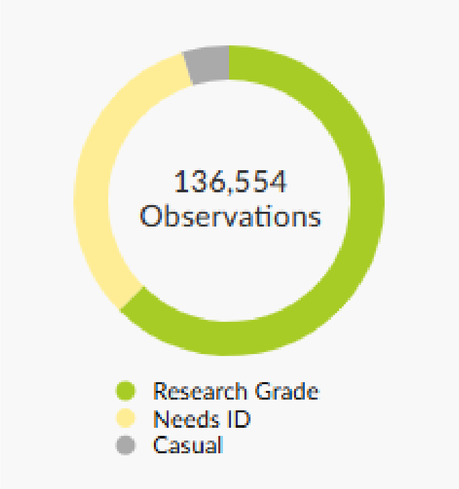


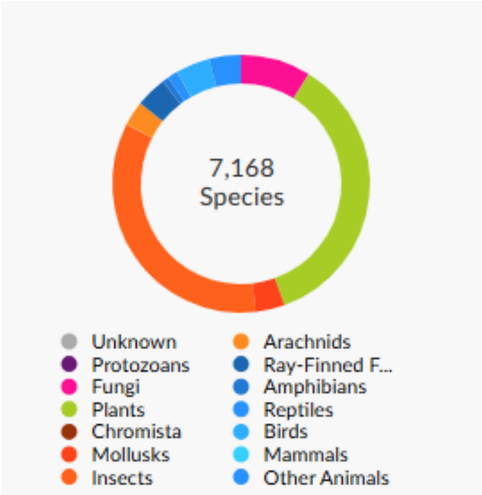
Public Involvement / Participation

From coastal clean-ups to logging biodiversity observations,
there are ways for everyone to get involved!

iNaturalist App: CBA Watershed Biodiversity

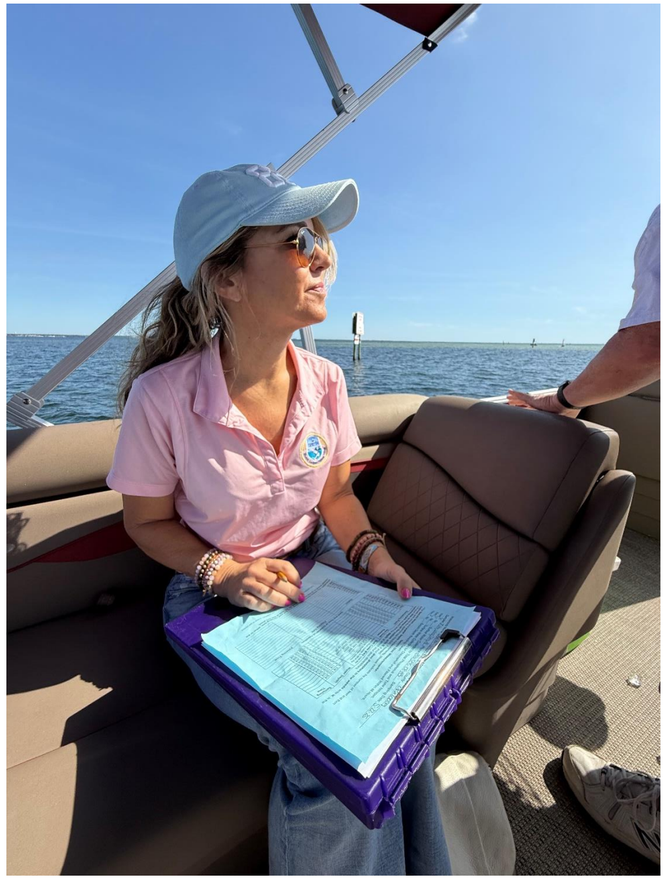






Public Involvement / Participation

Public stewardship continues from the shoreline into the water by adopting monthly water quality monitoring stations.

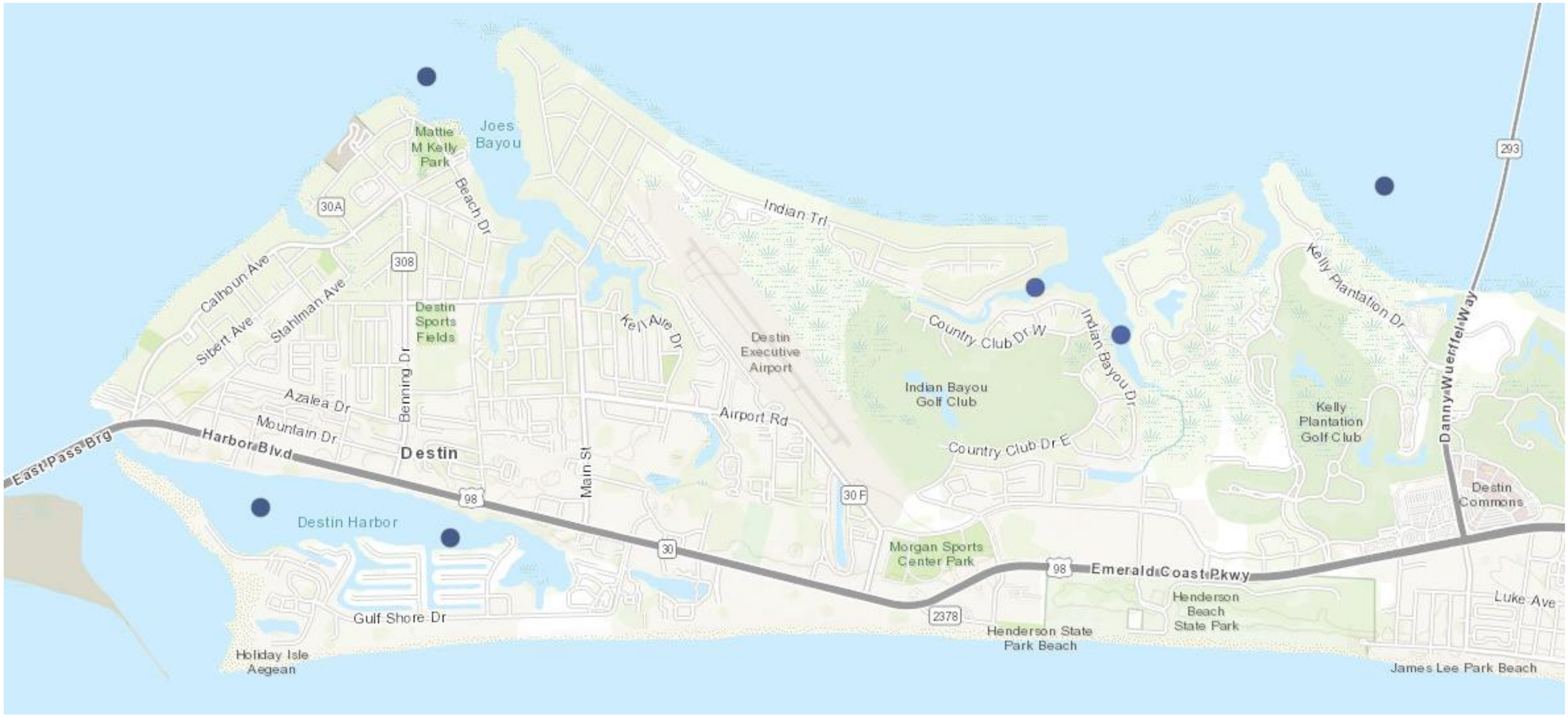


Water Quality Monitoring

- Monthly sampling and data collection at **six** stations
- Monthly sampling in the Destin Harbor—an opportunity to train volunteers and engage community leaders and stakeholders, with the assistance of Luther's Pontoons
- Joe's and Indian Bayous monitored by newly trained volunteers (February 2025)



CBA Destin Water Quality Stations



CBA Destin Water Quality

CBA

In-the-Field

- Temperature
- Dissolved Oxygen (mg/L and % sat)
- Specific Conductivity
- Salinity
- pH
- Turbidity

LAKEWATCH

Lab Analysis

- Nutrients
  - Total Phosphorus
  - Total Nitrogen
- Chlorophyll-a
- Secchi disk vanishing point

CBA Destin Water Quality

Numeric Nutrient Criteria (NNC)

Annual Geometric Means (AGM)

	West Bay	Middle Bay
Total Phosphorus:	0.049 mg/L	0.020 mg/L
Total Nitrogen:	0.54 mg/L	0.36 mg/L
Chlorophyll-a:	4.1 µg/L	3.1 µg/L

Numeric Nutrient Criteria Development | Florida Department of Environmental Protection

Numeric Nutrient Standards for Florida WatersBackgroundFor many decades Florida has had a narrative nutrient water quality criterion in...

floridadep.gov **Chapter 62-302.532**

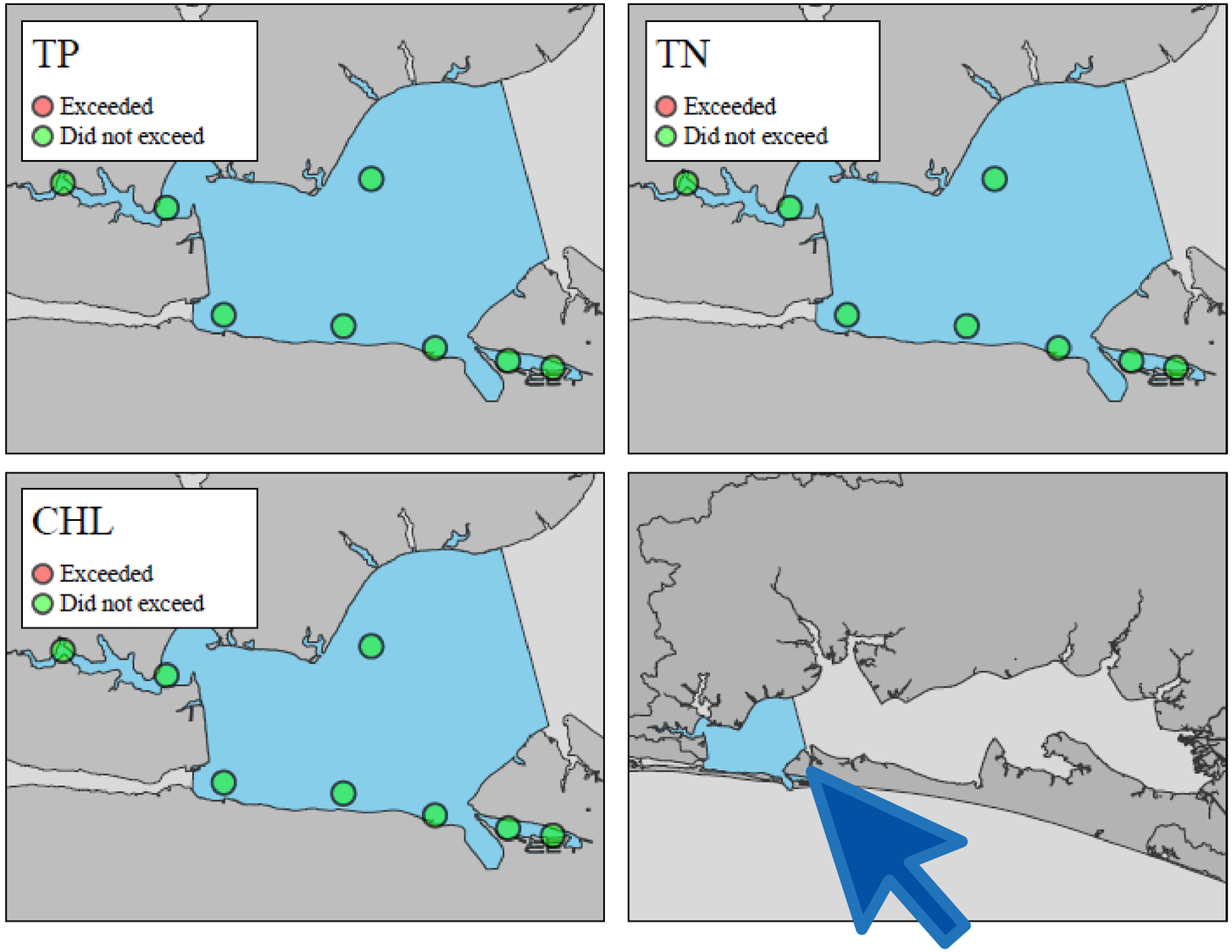
CBA Destin Water Quality

2024

West Bay Results

Total Phosphorus (TP)
Total Nitrogen (TN)
Chlorophyll (CHL)

Mean values for <u>all stations</u> are under the numeric nutrient criteria for TP, TN, and CHL.

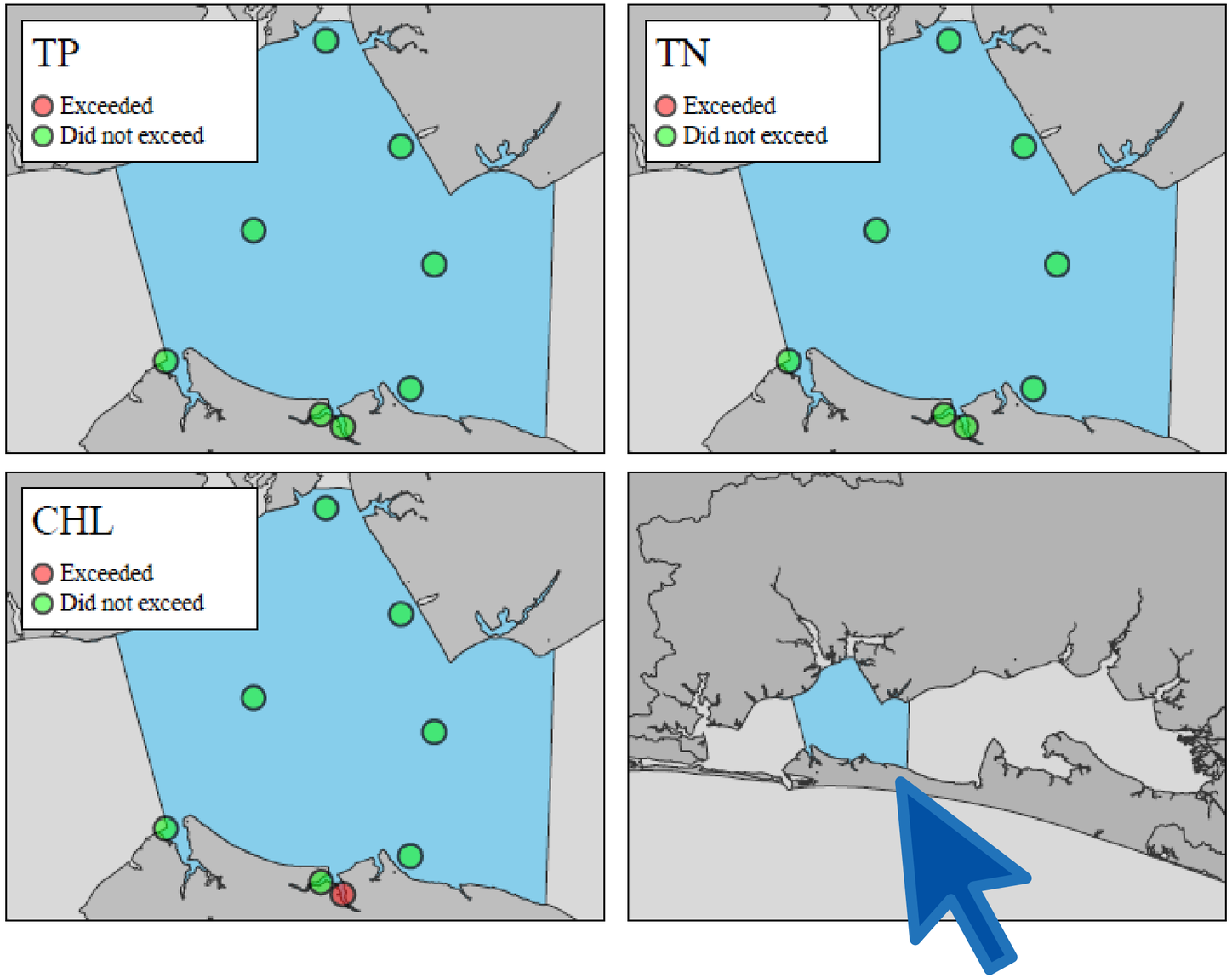


CBA Destin Water Quality

2024
Middle Bay
(Okaloosa) Results

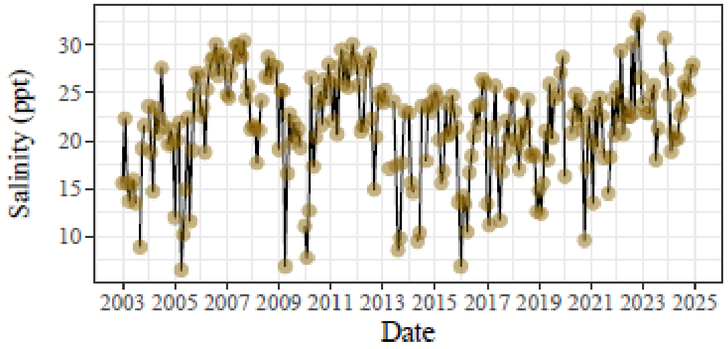
Total Phosphorus (TP)
Total Nitrogen (TN)
Chlorophyll (CHL)

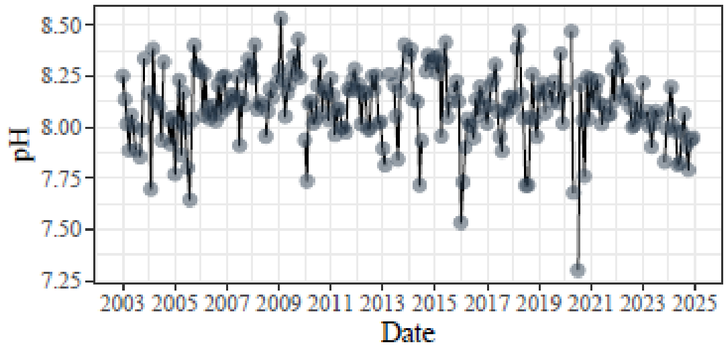
Mean values for one station exceed CHL-a criteria.

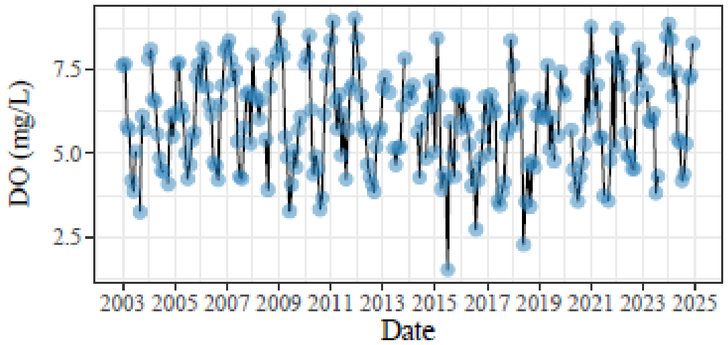


CBA Destin Water Quality

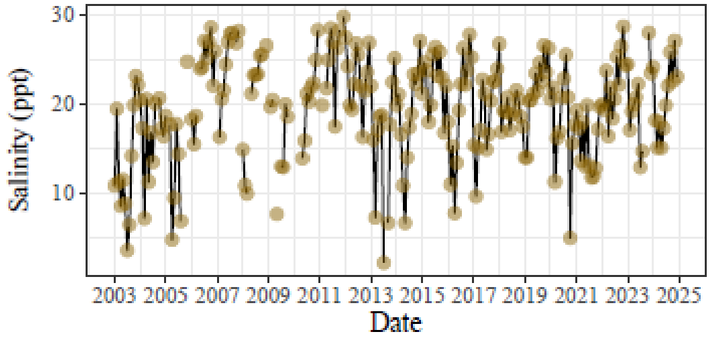
West Bay

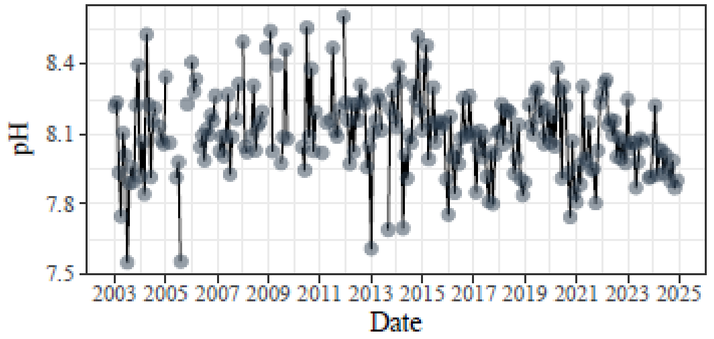


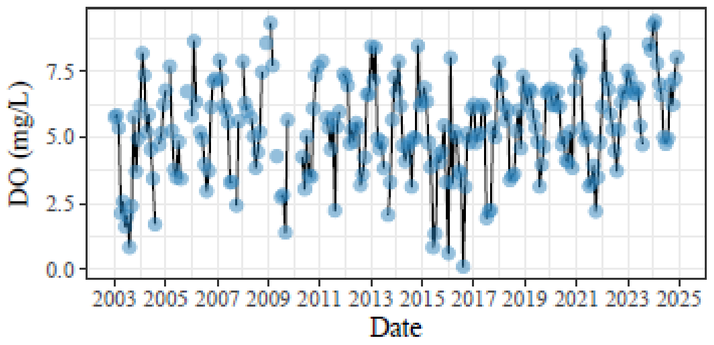




Middle Bay (Okaloosa)







CBA WATER QUALITY DASHBOARD

OVERVIEW | 1 BY AREA | 2 PARAMETER COMPARISON | 3 DOWNLOAD | 4 OYSTER HABITAT SUITABILITY | ADDITIONAL RESOURCES | Source Code

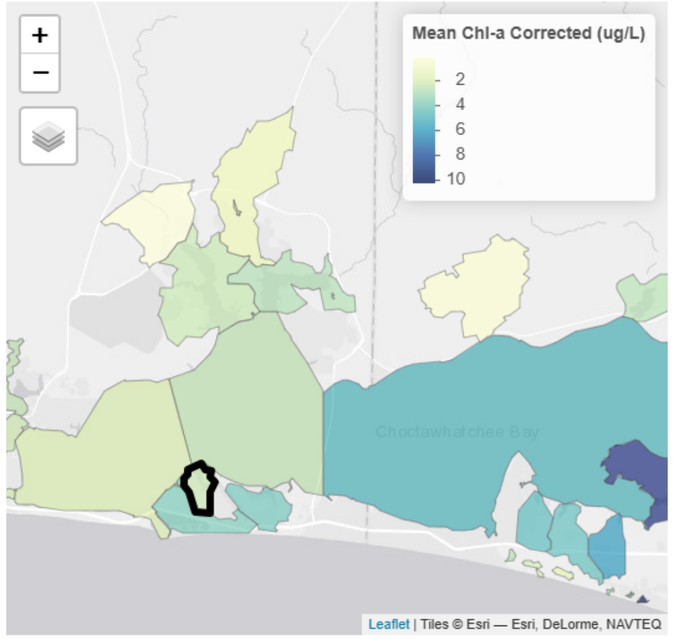
DATA | HOW TO USE

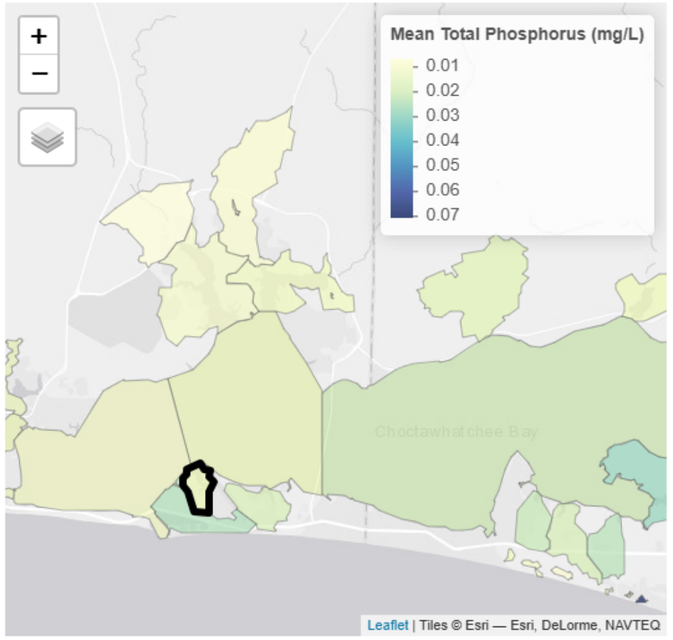
Summarize By:
(•) Region (WBID) ( ) Station

Select Date Range:
1992-11-08 — 2011-09-01 — 2025-02-17

Select Parameter One:
Chl-a Corrected

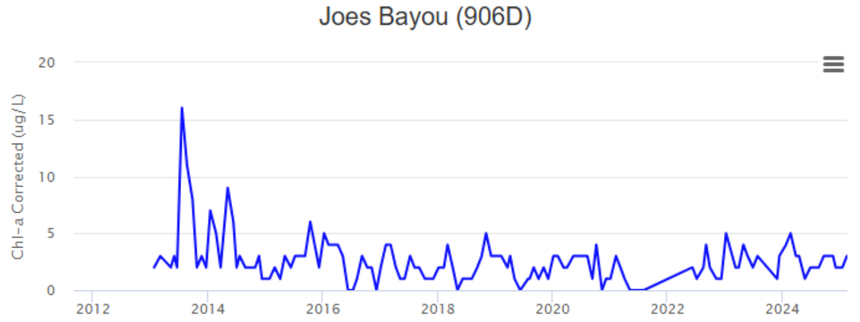
Select Parameter Two:
Total Phosphorus

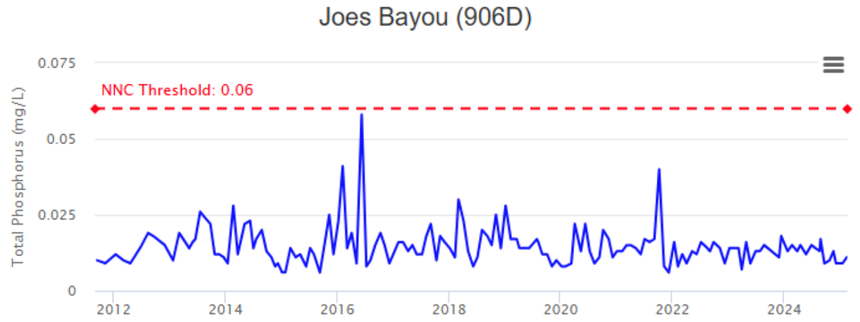




Time summary: none

Show trends: none





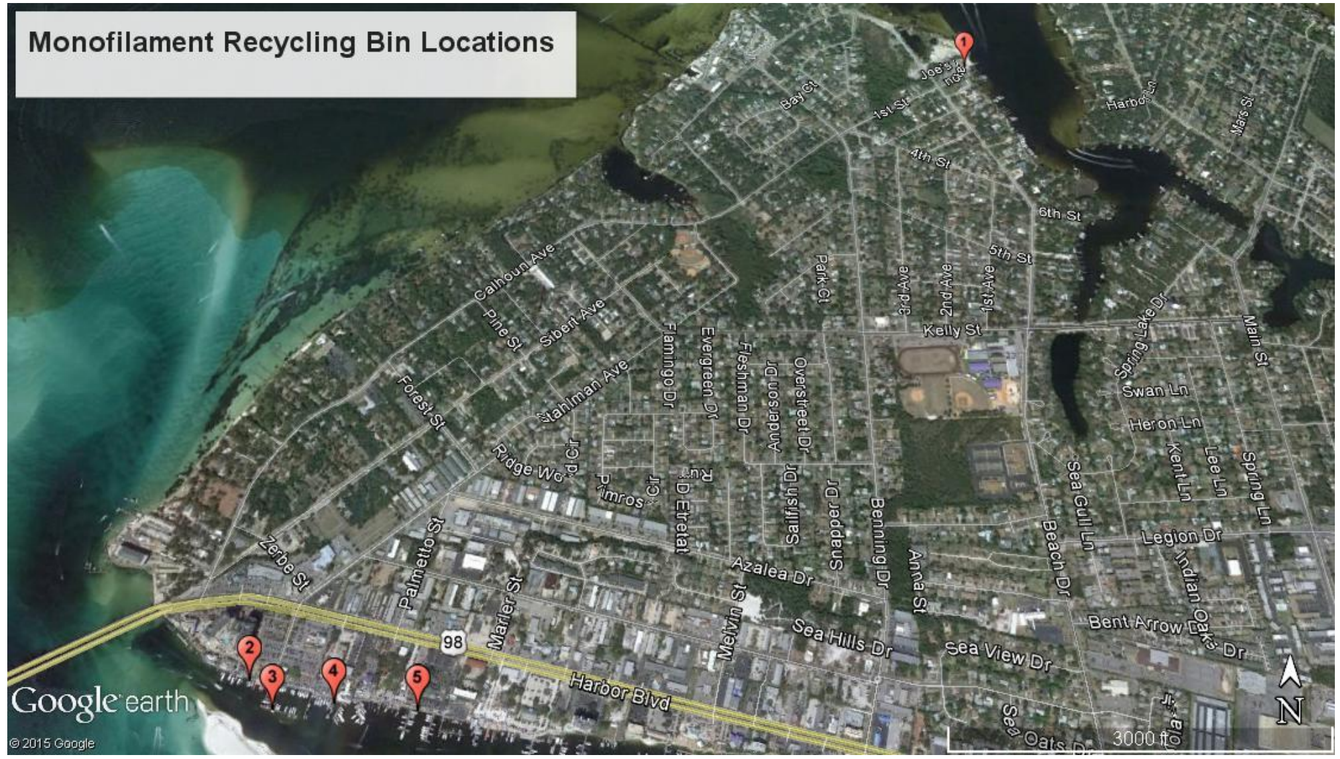
Pollution Prevention / Good Housekeeping

Monofilament Recycling

25 miles of monofilament fishing line recycled in last year (Oct ’24 to Sep ’25)

5 Destin Stations: Destin Harbor (4), Joe's Bayou Boat Ramp (1)

Destin bins are maintained by **1 volunteer** and CBA and Oystercorps staff



Dedicated to the Future of Fishing™

Pollution Prevention / Good Housekeeping

OYSTER Shell Recycling

4 Destin Restaurants: Back Porch, Boathouse, Brotula’s, and Johnny O’Quigley’s

89.8 tons of oyster shell collected from Destin Restaurants in the last year (Oct ’24 to Sep ’25)

Shell staging site located in Fort Walton Beach, utilized for Okaloosa County restoration projects

Oyster Gardening Program



Looking Forward

Expand Oyster Gardening Program

Million Oyster Project





Additional Public Education and Outreach Programs

Environmental Education high school module: SHOALS

(seagrass restoration focus)





CONTACT

basinalliance.org

109 South Greenway Trail
Santa Rosa Beach, FL 32459

(850) 200-4171

cba@nwfsc.edu



CHOCTAWHATCHEE BASIN ALLIANCE
Northwest Florida State College

Join CBA and help take care of local waterways.

JOIN THE ALLIANCE CBA

ITEM # 2025-1189

CITY OF DESTIN

AGENDA ITEM

COUNCIL MEETING DATE: October 20, 2025
TYPE OF AGENDA ITEM: Consent Agenda
AGENDA OUTLINE NUMBER: 3.A.

TO: City Council

THRU: Rey Bailey, City Clerk
Larry Jones , City Manager

FROM: Kimberly Montgomery, Deputy City Clerk

DATE: October 9, 2025

SUBJECT: Main Street Betterment Alliance of Destin Veteran's Day 5k

I. BACKGROUND: The Main Street Betterment Alliance of Destin, Inc. is requesting the use of the city streets to hold their Annual 5k run/walk on Saturday, November 8, 2025. They have provided all of the required documentation and have notified the Okaloosa County Sheriff's Office, the Destin Fire Control District, and the Okaloosa County Emergency Medical Services of the upcoming request. A map indicates the path of the race. The Okaloosa County Sheriff's Posse has pledged their support with two patrol cars and the volunteer race cleaning crew will remove any debris and trash along the race route.

II. DISCUSSION:

A. Link to Strategic Goals / Objectives: I. Enhance Quality of Life
I.E. Enhance the City's Recreational Services

B. Effect on Budget (EOB): The City of Destin shall not incur any expense or revenue as a result of this request.

C. Level of Service (LOS): There is no staff requirement for this request.
D. Legislative Sponsor:
E. Business Impact Statement:

III. CONCLUSION: All related and required documentation has been provided, reviewed, and approved by the City Attorney's office. Staff recommends approval for this request.

IV. RECOMMENDED MOTION: I move to approve the Main Street Betterment Alliance of

ITEM # 2025-1189

Destin, Inc. request for use of City streets for their Annual 5k run/walk on November 8, 2025.

Attachments:

1. MBA - Vet's Day 2025

CHECKLIST FOR USE OF PUBLIC FACILITIES OR PROPERTY:

Name of Organization: MAIN STREET BETTERMENT ALLIANCE (MSBA of Destin, Inc. DBA OF DESTIN, INC

Type of Event: VETERAN'S DAY 5K

Date(s) of Event: NOVEMBER 8, 2025, 8AM - 10AM

Location of Event: AMERICAN LEGION, 311 MAIN STREET

1.* Certificate of Insurance (**Endorsement to the Policy & Acord is required.**) provided: Yes: ✓ ***This is required.*** Date on which provided: 10/2/25

2.* Hold Harmless **(Signed Original)** provided: Yes: ✓ ***This is required.*** Date on which provided: 10/2/25

3.** Permission granted from FDOT for use of State roadway (applicable only if using and closing any portion of State Highway 98) Yes ___ No ___ Date written permission granted: N/A

4.** Local law enforcement services requested: Yes ✓ ***This is required.*** Law enforcement officer contacted: CAPT. JASON FULGHUM

5.** Destin Fire Control District contacted: Yes ✓ ***This is required.*** Person contacted: MATT TAYLOR, FIRE MARSHAL

6.** Okaloosa County Emergency Medical Services contacted: Person contacted: PATRICK MADDOX Yes ✓ ***This is required***

7. Please provide map of race route(s).

8. Describe steps being taken to ensure removal of all directional arrows, signage, as well as trash left on City streets upon conclusion of the event: VOLUNTEERS ALONG ROUTE (12) WILL CLEAN UP ANY TRASH.

9. Please provide location & pertinent information regarding sufficient and approved event participant parking for the event: PARKING AT AMERICAN LEGION, 311 MAIN STREET

Any unauthorized event participant parking is subject to being towed from private property at vehicle owner's expense

10. City Park Permit needed: Yes___ No ✓ If yes, please contact Lisa Firth at Destin Community Center @ 850-654-5184 to make arrangements to reserve the park.

11. Will the event be in a residential neighborhood and will there be excessive noise or light glare from the event? YES, NO NOISE OR LIGHTS

Ronald J Sandstead

(Requester's or Acting Agent's Signature)

* **Original Certificate of Insurance and signed Hold Harmless must be provided to the City of Destin to be presented to City Council prior to their approval of the event, as well as a map of the race route.**

** **Provide the City a written acknowledgement/concurrence from the agency.**

HOLD HARMLESS AGREEMENT

MAIN STREET BETTERMENT ALLIANCE OF DESTIN, INC.
MSBA of Destin, Inc. agrees to indemnify and hold harmless the City of Destin from any and all liability, defense costs, including attorney fees and all other fees incidental to defense, loss or damage the City of Destin may suffer as a result of claims, demands, costs or judgments against it arising from the VETERAN'S DAY 5K to be held on NOVEMBER 8, 2025.

In addition, the MSBA of Destin, Inc. agrees to provide the City of Destin a Certificate of Insurance naming the City as an Additional Insured reflecting general liability coverage of not less than $2,000,000.00.

MAIN STREET BETTERMENT ALLIANCE of Destin, Inc
(Corporate Name)

Signature of President

PRESIDENT
Print name and print President next to name

STATE OF FLORIDA
COUNTY OF OKALOOSA

The foregoing instrument was acknowledged before me by means of ☑ physical presence or ☐ online notarization, on this 2nd day of October 2025
by Ronald J. Sandstead who is personally known by me ✓ or has produced identification _____ Type of Identification: _____.

Signature of Notary Taking Acknowledgement (Seal)

Kimberly I. Montgomery
Printed name of Notary Taking Acknowledgement

KIMBERLY I. MONTGOMERY
Commission # HH 208274
Expires March 5, 2026

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 09/24/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER

Gaslamp Insurance Services
DBA Event Helper Insurance Services
PO Box 1549
Grass Valley CA 95945

CONTACT NAME: Event Helper Customer Service
PHONE (A/C, No, Ext): (855) 493-8368 FAX (A/C, No):
E-MAIL ADDRESS: info@theeventhelper.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Lloyds Syndicate 2623 82%	AA-1128623
INSURER B : Lloyds Syndicate 623 18%	AA-1126623
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED

Main Street Betterment Alliance of Destin, Inc.
c/o Ron Sandstead
337 Calhoun Avenue
Destin FL 32541

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	✓ COMMERCIAL GENERAL LIABILITY ✓ CLAIMS-MADE ☐ OCCUR ✓ Host Liquor Liability ☐ Retail Liquor Liability GEN'L AGGREGATE LIMIT APPLIES PER: ✓ POLICY ☐ PRO-JECT ☐ LOC ☐ OTHER:	Y	N	EH-771325-L4630427	11/08/2025 12:01 AM	11/09/2025 12:01 AM	EACH OCCURRENCE	$ 1,000,000
							DAMAGE TO RENTED PREMISES	$ 100,000
							MED EXP (Any one person)	$ 5,000
							PERSONAL & ADV INJURY	$ 1,000,000
							GENERAL AGGREGATE	$ 2,000,000
							PRODUCTS - COMP/OP AGG	$ 2,000,000
							Deductible	$ 1,000
	AUTOMOBILE LIABILITY ☐ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident)	$
							BODILY INJURY (Per person)	$
							BODILY INJURY (Per accident)	$
							PROPERTY DAMAGE (Per accident)	$
								$
	☐ UMBRELLA LIAB ☐ OCCUR ☐ EXCESS LIAB ☐ CLAIMS-MADE ☐ DED ☐ RETENTION $						EACH OCCURRENCE	$
							AGGREGATE	$
								$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? ☐ N/A (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						☐ PER STATUTE ☐ OTH-ER	
							E.L. EACH ACCIDENT	$
							E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Certificate holder listed below is named as additional insured per attached CG 20 26 04 13. Attendance: 150, Event Type: 5 K Run. Policy includes a 36 month Extended Reporting Period. Damage to Premises Rented (Other than Fire) included in the Each Occurrence Limit shown above.

CERTIFICATE HOLDER

City of Destin
4200 Indian Bayou Trail
Destin FL 32541

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED - DESIGNATED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

Schedule

Name of Additional Insured Person(s) or Organization(s):
City of Destin 4200 Indian Bayou Trail Destin, FL 32541
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

A. **SECTION II - WHO IS AN INSURED** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury," "property damage" or "personal and advertising injury" caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:

1. in the performance of your ongoing operations; or
2. in connection with your premises owned by or rented to you.

However:

1. the insurance afforded to such additional insured only applies to the extent permitted by law; and
2. if coverage provided to the Additional Insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these Additional Insureds, the following is added to **SECTION III - LIMITS OF INSURANCE**:
If coverage provided to the Additional Insured is required by a contract or agreement, the most we will pay on behalf of the Additional Insured is the amount of insurance:

1. required by the contract or agreement; or
2. available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

© Insurance Services Office, Inc., 2012

Kim Montgomery

CCSO

From: Joseph J. Fulghum <jfulghum@sheriff-okaloosa.org>
Sent: Wednesday, September 24, 2025 4:04 PM
To: ronsandstead@hotmail.com
Cc: Kim Montgomery; Brian M. Parkton; Tamra L. Cokonougher
Subject: RE: 2025 Destin Vets Day 5K map of route

The race is approved.

Joseph Jason Fulghum
Captain, East District
Okaloosa County Sheriff's Office
4300 E. Legendary Dr. Suite 250
Destin, Fl 32541
(850)613-2208

From: Matthew D. Abbott <mabbott@sheriff-okaloosa.org>
Sent: Wednesday, September 24, 2025 5:11 AM
To: Joseph J. Fulghum <jfulghum@sheriff-okaloosa.org>
Subject: Fw: 2025 Destin Vets Day 5K map of route

Captain Matthew D. Abbott
850-259-4043

From: RON SANDSTEAD <ronsandstead@hotmail.com>
Sent: Wednesday, September 24, 2025 4:43:37 AM
To: Matthew D. Abbott <mabbott@sheriff-okaloosa.org>
Cc: Kim Montgomery <kmontgomery@cityofdestin.com>
Subject: Fw: 2025 Destin Vets Day 5K map of route

WARNING: This E-Mail Originated Outside of the Sheriff's Office.

DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Matthew Abbott
Okaloosa Co Sheriff's Office

Here is a map of the route our 2025 Destin Vets Day 5K will take for this year's run.

Kim Montgomery OCEMS

From: Patrick Maddox <pmaddox@myokaloosa.com>
Sent: Wednesday, September 24, 2025 9:29 AM
To: 'RON SANDSTEAD'
Cc: Kim Montgomery; Tamara Young; jfulghum@sheriff-okaloosa.org; Kevin Kirkpatrick; Darrel Welborn
Subject: RE: 2025 Vets Day 5K
Attachments: 5K Route 2022.jpg

Good Morning Ron,

No objection from Public Safety, but you'll need the Sheriff's Office to sign off on your safety and traffic plan. I've copied them here.

Stay safe,

Patrick Maddox, LE CDR(R)
Director of Public Safety
Okaloosa County Board of County Commissioners
90 College Blvd E.
Niceville, Fl. 32578
(850) 651-7150
pmaddox@myokaloosa.com

From: RON SANDSTEAD <ronsandstead@hotmail.com>
Sent: Wednesday, September 24, 2025 4:00 AM
To: Patrick Maddox <pmaddox@myokaloosa.com>
Cc: Kim Montgomery <kmontgomery@cityofdestin.com>
Subject: 2025 Vets Day 5K

Patrick Maddox
Okaloosa County EMS

My name is Ron Sandstead And I am the president of the Main Street Betterment Alliance of Destin.

We are again having our Annual Veterans Day 5K. It will be on **November 8, 2025** from 8 to approximately 10 am. This will be our 10th run to raise money for veteran's charities.

DFCD

Kim Montgomery

From: Matt Taylor <MTaylor@destinfire.com>
Sent: Wednesday, May 28, 2025 7:39 AM
To: destinaccounting@yahoo.com; Kim Montgomery
Subject: RE: Boathouse Oyster Bar is hosting the Forrest 5K - June 14, 2025

Preston,

Thank you for notifying the Destin Fire Control District of the Forrest 5K Run on June 14, 2025. *The appropriate shift has been copied on this e-mail.*

Please advise all participants to maintain an awareness for any responding emergency vehicle during all stages of the event and to immediately cede the right-of-way.

Have a great run and if you need any other assistance, please contact me.

This e-mail will serve as the Destin Fire Control District's acknowledgement of this event. Please forward it to the appropriate agencies.

This email was sent on the 22nd to Preston Green.

Matt Taylor, Fire Marshal
Destin Fire Control District
Cell 850-685-3367
Office 850-837-8413

From: destinaccounting@yahoo.com <destinaccounting@yahoo.com>
Sent: Tuesday, May 27, 2025 4:23 PM
To: Matt Taylor <MTaylor@destinfire.com>; Kim Montgomery <kmontgomery@cityofdestin.com>
Subject: Fw: Boathouse Oyster Bar is hosting the Forrest 5K - June 14, 2025

INDIAN TRAIL
Turnaround
Water
BAYOU DR
MARS ST
MAIN ST
Kell
Aire
Lake
Destin
Airpo
SPRING LAKE DR
SPRING LN
KENT LN
LEE LN
CEDAR ST
CYPRESS ST
HOLLY ST
KELL AIRE
Start
Finish

Kim Montgomery

To: Jamie Haynes
Subject: RE: MSBA of Destin, Inc. - Veteran's Day 5k ROW Request

From: Jamie Haynes <jhaynes@cityofdestin.com>
Sent: Thursday, October 9, 2025 1:34 PM
To: Kimberly Kopp <kkopp@romanokopplaw.com>; Kim Montgomery <kmontgomery@cityofdestin.com>
Cc: Rey Bailey <rbailey@cityofdestin.com>; Sharon Gardner <sgardner@cityofdestin.com>
Subject: RE: MSBA of Destin, Inc. - Veteran's Day 5k ROW Request

I'm good!

Thank you,

Jamie



From: Kimberly Kopp <kkopp@romanokopplaw.com>
Sent: Thursday, October 9, 2025 12:52 PM
To: Kim Montgomery <kmontgomery@cityofdestin.com>
Cc: Jamie Haynes <jhaynes@cityofdestin.com>; Rey Bailey <rbailey@cityofdestin.com>; Sharon Gardner <sgardner@cityofdestin.com>
Subject: Re: MSBA of Destin, Inc. - Veteran's Day 5k ROW Request

I am good if Jamie is good
Sent from my iPhone

From: Kim Montgomery
Sent: Thursday, October 2, 2025 3:08 PM
To: Jamie Haynes <jhaynes@cityofdestin.com>; Kimberly Kopp <kkopp@romanokopplaw.com>
Cc: Rey Bailey <rbailey@cityofdestin.com>; Sharon Gardner <sgardner@cityofdestin.com>
Subject: MSBA of Destin, Inc. - Veteran's Day 5k ROW Request

Jamie/KK,

Please review for Legal Sufficiency & Risk and reply to this email if everything is in order, so I can place the request on the 10/20/25 Council Agenda.

Thanks,
-Kim

MINUTES
EXECUTIVE SESSION
CITY COUNCIL
OCTOBER 6, 2025
5:30 PM
CITY HALL ANNEX COUNCIL CHAMBERS

The Council of the City of Destin met at an executive session with the following members and staff present:

Council Present

Mayor Pro Tem Dewey Destin
Councilmember Torey Geile
Councilmember Terésa Hebert
Councilmember Sandy Trammell
Councilmember Kevin Schmidt
Councilmember Jim Bagby
Councilmember Rodney Braden

Staff Present

City Manager Larry Jones
City Clerk Rey Bailey
City Attorney Kimberly Romano Kopp
Litigation Attorney Wiliam G. Warner, Esq.

Others Present

Amber Rodriguez, Court Reporter

CALL TO ORDER

1. EXECUTIVE ATTORNEY-CLIENT SESSION: Pursuant to Section 286.011(8), Florida Statutes, the City's Special Counsel will be seeking the advice of the City Council regarding settlement negotiations and/or strategy related to litigation expenditures concerning the pending litigation:

   CITY OF DESTIN V. KYLE M. COLEMAN dba KYLE COLEMAN ICE CREAM aka GULF STREAM ICE CREAM, OHANA GELATOS LLC; and WOUNDED WARRIOR COMMISSARY, LLC Case No. 2025-CA-002412A0010F, in the Circuit Court of Okaloosa County, Florida

Mayor Pro Tem Dewey Destin convened the meeting and announced that:

"This session of the Destin City Council is hereby convened as noticed by publication in a newspaper of general circulation, The Daily News, on Friday, September 30, 2025.

The City Attorney states as follows:

"Pursuant to §286.011(8), Florida Statutes, at this time, I would like to request that we adjourn to executive session so that I, the attorney of record for the City of Destin in:

CITY OF DESTIN V. KYLE M. COLEMAN dba KYLE COLEMAN ICE CREAM aka GULF STREAM ICE CREAM, OHANA GELATOS LLC; and WOUNDED WARRIOR COMMISSARY, LLC Case No. 2025-CA-002412A0010F, in the Circuit Court of Okaloosa County, Florida

may receive the Council's advice regarding the strategy to be used in this case and the type of expenses to be incurred."

The entire session would be recorded by a court reporter, the transcript would be filed with the City Clerk, and available to the public at the conclusion of the litigation discussed today. A copy of the published notice of this executive session is hereby identified as Exhibit A and will be attached to the transcript of this executive session.

In addition to the Mayor Pro Tem and City Council members in attendance tonight, the following individuals will attend the session:

Attorneys for the City:	***William G. Warner, Esq.*** ***Warner Law Firm, P.A.*** ***519 Grace Avenue*** ***Panama City, Florida 32401***
	Kimberly Romano Kopp, Esq., LEED AP ***Romano Kopp Law, PA.*** ***P.O. Box 445*** ***Destin, Florida 32541-0445***
City Manager	***Larry Jones"***

The City Attorney (Cont.)

"At this time will the Mayor Pro Tem and council members in attendance please identify yourselves for the record?"

The following members of the city council each announced their presence:

Councilmember Rodney Braden
Councilmember Sandy Trammell
Councilmember Jim Bagby
Mayor Pro Tem Dewey Destin
Councilmember Terésa Hebert
Councilmember Torey Geile
Councilmember Kevin Schmidt

The City Attorney (Cont.)

I estimate that this executive session will take approximately 30 minutes. At the conclusion of the executive session, the Council will reconvene the public hearing, accept any motions if applicable, and the mayor will end the session."

Mayor Wagner states that:

"At this time, we will recess the public portion of tonight's meeting and convene the executive session.

Individuals whose names are not listed in the published notice left the room and the executive session convened.

Once the closed session ended and the City Clerk has returned, the Mayor Pro Tem states:

"We will now reconvene the public portion of this meeting and I will accept any motions from the council."

The council made no motion.

ADJOURNMENT:

Having no further business at this time, the Mayor Pro Tem adjourned the meeting at 6:05 PM.

ADOPTED THIS 20TH DAY OF OCTOBER 2025
By:

_____

Dewey Destin, Mayor Pro Tem

ATTEST:

_____

Rey Bailey, City Clerk

REGULAR MEETING
DESTIN CITY COUNCIL
SEPTEMBER 15, 2025
ANNEX COUNCIL CHAMBERS

The Council of the City of Destin met in regular session with the following members and staff present:

Destin City Council

Mayor Bobby Wagner
Councilmember Kevin Schmidt
Councilmember Terésa Hebert
Councilmember Sandy Trammell
Councilmember Torey Geile
Councilmember Dewey Destin
Councilmember Jim Bagby
Councilmember Rodney Braden

Destin City Staff

City Manager Larry Jones
IT Director Andy Peters
HR Director Jaime Haynes
Finance Director Krystal Strickland
Projects/Grants/Contract Manager Jeffrey Cozadd
Deputy Comm Dev Director Steve O'Connor
Senior Planner Jesse Hernandez
City Clerk Rey Bailey
Public Works Director Michael Burgess
Public Informamation Director Tamara Young
City Engineer Robert Tomasek
Parks & Recreation Director Lisa Firth
Comm Dev Director David Prichard
City Attorney Kimberly Kopp

CALL TO ORDER, INVOCATION AND PLEDGE OF ALLEGIANCE

Mayor Bobby Wagner called the meeting to order at 6:00 PM. Pastor Steve Farris of the First Baptist Church of Destin gave the invocation, which was then followed by the recitation of the Pledge of Allegiance.

AGENDA APPROVAL

Motion by Councilmember Hebert, seconded by Councilmember Geile, to approve the agenda passed 7-0.

1. PROCLAMATIONS/RECOGNITIONS/SPECIAL/PUBLIC PRESENTATIONS/ ANNOUNCEMENTS

2. PUBLIC COMMENTS

Ms. Carolyn Yvos, a condo owner at Sundestin, expressed frustration over the passage of a short-term rental registration ordinance (Ordinance 24-23-CC). She stated that her husband sent a letter of disagreement to the city back in March, but no vote was held, and the ordinance was passed without their input. She emphasized that they, as out-of-state owners from Mississippi, were not notified of any public meetings or the ordinance prior to receiving a recent postcard about the new

fees. She described the process as unfair and questioned whether this was the correct and legal way to implement such changes, especially when many condo owners were unaware.

Ms. Sheridan Gibson, a resident of Destin, addressed concerns about the city's overall decline in beautification, particularly along the Destin Harbor where she walks daily. She described the conditions as "atrocious" and disappointing given the city's importance as a tourist destination. Gibson questioned the budget allocation for maintenance and beautification and asked who to speak with regarding city funding priorities. In response, city officials informed her about the budgeting process and encouraged her to participate in strategic planning sessions, consider joining a city committee, or email the council directly to share her concerns.

Ms. Eva Rodriguez, who lives on Gulf Shore Drive, voiced two major concerns. First, she spoke about ongoing trash and cleanliness issues along her street. She and her husband regularly clean up trash themselves, including diapers, fishing debris, and overflowing trash bins. Despite calling the city weekly, they have seen no improvement and are unsure who to escalate the issue to. Second, she echoed her mother's complaints about the short-term rental registration ordinance. She stated they received no notice before the ordinance passed and only learned about it the day of the meeting. She described the process as "taxation without representation," adding that condo owners already pay substantial taxes and should not be subjected to additional surprise fees. She felt the ordinance was passed in a "sly" and non-transparent way. Rodriguez also asked for an update on Noriega Point, which had been closed since Labor Day, and requested more information on when it would reopen.

Mr. Steve Napier, a local resident, shared a broader concern about civic responsibility and respect for local governance. He criticized a previous council meeting where, after passing a resolution about Facebook and social media conduct, a question was raised about what the consequences would be for violating it. He stated that he found this disrespectful, stating that once the council votes on and passes a resolution, it should carry enforceable consequences. He urged the city to implement stronger accountability and encouraged citizens to be more involved in local government, referencing his father's sacrifice as a prisoner of war as a reminder of the cost of American freedoms.

3. CONSENT AGENDA

A. Resolution 25-19: 41st Annual Christmas Parade
B. Official Name of Norriego Point Park - Resolution 25-09
C. 2025 Destin Seafood Festival, Use of City Parking Lots
D. 4133 Belcourt Dr, Residential Marine Construction, HWB-001654-2025
E. Approval of minutes of August 18, 2025. Regular City Council Meeting

Motion by Councilmember Hebert, seconded by Councilmember Trammell, to approve Consent Agenda items 3A to 3E, as printed above, passed 7-0.

4. CITY MANAGER REPORTS

A. Food for Thought — Request to Renew Lease

The City Manager introduced the matter of the lease for the city-owned building at 908 Airport Road, currently occupied by Food For Thought Outreach, Inc., a nonprofit that provides food to children in Okaloosa County. The original five-year lease, which began in March 2020, expired in March 2025 with an option for a five-year renewal. However, the organization missed the deadline to formally request the renewal. Despite this, conversations had since occurred with

Tiffany Nelson, the Executive Director, who was present to request an extension or renewal of the lease under the existing terms.

Ms. Nelson then explained the mission and impact of Food For Thought. She shared the organization's origin story, starting in 2010 when she was a single mother, and how it has since grown to serve over 3,600 children across two counties through partnerships with 36 schools. She emphasized the transformative effect the Airport Road location had on their operations, allowing them to establish roots and nearly double their capacity. She acknowledged the lease renewal oversight but reaffirmed the organization's commitment to the location and requested a continuation of the lease to fulfill their mission. She also noted the support they receive from the community, including volunteer hours and in-kind donations such as lawn care services.

Council members responded with strong support expressing appreciation for the site visit and the valuable services provided. Councilmember Braden praised the organization's work and emphasized his commitment to supporting it, although he noted that Destin may not receive broad recognition for hosting a hub serving two counties. Ms. Nelson assured him that the city's support is acknowledged and celebrated. Councilmember Schmidt mentioned his role in bringing the missed renewal to attention and stressed its importance. Councilmember Hebert recounted her personal volunteer experience and praised the program's discreet method of providing food to children in need. The mayor and council members commended the compassionate and empathetic way the organization serves the children, especially the discreet backpack delivery model that preserves the dignity of recipients.

Councilmember Trammell moved to extend the lease agreement for Food for Thought under the same terms and conditions through March 1, 2030. The motion was seconded by Councilmember Hebert and passed 7-0.

B. E-Bikes Update

The City Manager announced that although a draft ordinance had originally been anticipated for presentation at this meeting, it has been postponed. The Okaloosa County Health Improvement Partnership is holding a meeting on October 1st to address the topic of e-bikes, and the city expects that the county may act or draft an ordinance that the city could use as a model. The city will have representation at this meeting and will gather the information presented. Following the meeting, staff will bring forward a recommendation through the Public Works/Public Safety Committee. The City Manager emphasized that this approach ensures coordination with the county's efforts before moving forward.

The City Manager provided an informational update regarding the ebike ordinance. A draft ordinance had been expected for the current meeting, but further action has been delayed. The delay is due to an upcoming meeting on October 1st hosted by the Okaloosa County Health Improvement Partnership, where ebikes will be a key topic. The city anticipates the county may draft its own ordinance, which could serve as a model to ensure consistency between city and county regulations. City representatives will attend the meeting, and any recommendations will be brought back through the Public Works and Public Safety Committee. The goal is to align enforcement and policy across jurisdictions before finalizing a city ordinance. No immediate action is required from the council at this time.

C. Code of Ethics for Officials — Update

The City Manager reported that, following a previous discussion about adopting a code of ethics, the city obtained Jacksonville Beach's code of ethics for elected officials last week. Copies have

been provided to council members for reference. The City Manager and City Attorney are currently reviewing the document, comparing it to Destin's city charter and existing resolutions, and will bring a customized version back for the council's future consideration.

D. 446 Calhoun – Update

Councilmember Schmidt made a motion to direct the City Manager and City Attorney to execute a Florida Bar Contract to purchase the property located at 446 Calhoun Avenue for $400,000. The motion was seconded by Councilmember Hebert but <u>failed</u> by a 1–6 vote, with Councilmember Schmidt casting the lone affirmative vote.

During the discussion, council members inquired about the number of parking spaces that could be created on the site, with an estimate of approximately 70 spaces. Concerns were raised about stormwater management, the steep grade of the property, and whether a gravel lot would be feasible, or if paving and extensive grading would be necessary. Suggestions were made to explore alternative materials such as permeable concrete or pavers, which could help reduce stormwater retention requirements and potentially increase parking capacity. Cost was a significant point of concern, with improvement estimates ranging from $500,000 to $600,000, prompting questions about dedicating nearly half of the parking fund's $2 million balance to a single project. Council members also discussed alternative parking opportunities along Hickory Street and Calhoun Avenue as options to evaluate. Additional concerns were raised regarding the need to notify adjacent property owners and the potential impacts of installing lighting in the proposed parking lot. Several council members requested the opportunity to review the property's appraisal, engineering report, title review (including any encroachment issues), and a formal cost estimate before making a final decision.

Councilmember Destin moved to direct the City Manager to engage one of the city's continuing contract engineers to prepare a plan showing the maximum number of parking spaces that could be constructed on the 446 Calhoun property, as well as to evaluate additional parking opportunities along Hickory Street and Calhoun Avenue so the council could compare options. The motion also specified that if the cost of the engineering work exceeded the city manager's spending authority, it must be brought back to the council for approval. Motion was seconded by Councilmember Hebert and passed 5-2, with Council members Schmidt and Braden dissenting.

E. Property and Casualty Insurance – Update

The City Manager provided an update regarding the city's property and casualty insurance renewal, which also covers workers' compensation. At the last meeting, a 5% rate increase – about $28,000 – had been approved. However, thanks to the efforts of the HR staff, particularly HR Director Jamie Haynes, they were able to secure an 8% rate reduction instead. This change will save the city approximately $44,000 compared to last year's rate. The council expressed gratitude to the HR Director for her work in achieving this savings.

F. Minutes of Standing Board/Committees — Informational Only
G. Announcements

1) The Destin Seafood Festival will take place September 26–28 and will kick off the Destin Fishing Rodeo, which runs throughout the entire month of October.

2) As part of Florida City Week, the City of Destin will host its annual City Open House on Wednesday, October 22, at the Destin Community Center. The event

will feature a Mardi Gras theme, with a free lunch starting at 11:30 a.m. This is an opportunity for city staff to thank citizens and community members, and several partners—including the Okaloosa County Sheriff's Office, Waste Management, Destin Fire, Destin Water Users, the Chamber, and others—will have informational tables set up. The city will also provide its annual shred truck service, available at City Hall from 9 to 11 a.m. and at the community center from 11 a.m. to 1 p.m.

3) City's Christmas Parade is scheduled for Saturday, December 13, at 10 a.m. This year's theme is "Seashells and Sleigh Bells," and applications for those wishing to enter a float in the parade are now available at the community center.

5. PUBLIC HEARINGS

A. Second reading of Ordinance 25-20-CN - Adopting the Fiscal Year 2026 Millage Rate25

The City Attornet read proposed Ordinance 25-20-CN by title and then presented it to the city council on second reading.

> AN ORDINANCE OF THE CITY OF DESTIN OF OKALOOSA COUNTY, FLORIDA, ADOPTING THE FINAL LEVYING OF AD VALOREM TAXES FOR THE CITY OF DESTIN FOR FISCAL YEAR 2026; AND PROVIDING FOR AN EFFECTIVE DATE.

The mayor opened a public hearing to receive comments for or against the proposed ordinance. Having none, the mayor closed the public hearing and turned the matter over to the city council for discussion and consideration.

Motion by Councilmember Bagby, seconded by Councilmember Trammell, to adopt Ordinance 25-20-CN on second reading adopting a proposed Fiscal Year 2026 millage rate of 1.6150 mills which is more than the rollback rate of 1.5463 by 4.44% passed 6-1, with Councilmember Schmidt dissenting.

B. Second reading of Ordinance 25-21-CN - Adopting the Fiscal Year 2026 Budget

The City Attornet read proposed Ordinance 25-21-CN by title and then presented it to the city council on second reading.

> AN ORDINANCE OF THE CITY OF DESTIN MAKING APPROPRIATIONS FOR CERTAIN EXPENDITURES, EXPENSES, CAPITAL IMPROVEMENTS AND CERTAIN INDEBTEDNESS OF THE CITY OF DESTIN, FLORIDA, FOR THE FISCAL YEAR BEGINNING OCTOBER 1, 2025, AND ENDING SEPTEMBER 30, 2026; AND PROVIDING FOR AN EFFECTIVE DATE.

The mayor opened a public hearing to receive comments for or against the proposed ordinance. Having none, the mayor closed the public hearing and turned the matter over to the city council for discussion and consideration.

Motion by Councilmember Bagby, seconded by Councilmember Hebert, to adopt Ordinance 25-21-CN on second reading to provide for a balanced budget for Fiscal Year 2026 passed 7-0.

C. Second reading of Ordinance 25-05-CC - Relating to livery vessels; amending Chapter 13, Article VIII "Registration of livery vessels" of the city Code of Ordinances; amending provisions related to transferability of permits; providing for additional required training and safety measures.

The City Attornet read proposed Ordinance 25-05-CC by title and then presented it to the city council on second reading.

> AN ORDINANCE OF THE CITY OF DESTIN, FLORIDA RELATING TO LIVERY VESSELS; AMENDING ARTICLE VIII "REGISTRATION OF LIVERY VESSELS" OF THE CITY CODE OF ORDINANCES; AMENDING PROVISIONS RELATED TO TRANSFERABILITY OF PERMITS; PROVIDING FOR ADDITIONAL REQUIRED TRAINING AND SAFETY MEASURES; PROVIDING FOR FINDINGS OF FACT; PROVIDING FOR SEVERABILITY; AND PROVIDING FOR AN EFFECTIVE DATE.

The mayor opened a public hearing to receive comments for or against the proposed ordinance. Having none, the mayor closed the public hearing and turned the matter over to the city council for discussion and consideration.

Motion by Councilmember Trammell, seconded by Councilmember Hebert, to adopt Ordinance 25-05-CC on second reading passed 7-0.

6. COMMENTS / PRESENTATIONS FROM MAYOR, COUNCIL, AND CITY ATTORNEY

A. Councilmember Braden

Councilmember Braden addressed the process for presentations at council meetings. He observed that in the past, presentations were listed on the agenda, but recently they have been occurring under the city manager's report without prior notice. He expressed concern that if multiple councilmembers and the city manager invite presenters without agenda listings, meetings could become excessively long. He suggested reinstating a process where presentations are included on the agenda so councilmembers and the public are aware in advance of who will be speaking and what topics will be discussed.

The City Attorney confirmed that the council is responsible for setting its own procedures and recommended circulating the council's existing procedures resolution to members via email for review. This would allow councilmembers to suggest changes or discuss revisions with the city manager and attorney before the next meeting. The attorney further noted that the resolution could be brought back to the next council meeting for consideration, at which time the council could add language requiring presentations to be placed on the agenda and establish appropriate time limits, such as a 10-minute maximum for each presenter.

B. Councilmember Trammell

Councilmember Trammell spoke about Destin High School's fishing class and its partnership with Okaloosa County in building artificial reefs in the Gulf of Mexico. She shared that she had recently placed a memorial reef for her husband and expressed gratitude to Alex Fogg from the county for spearheading the program. She explained that the cost to place a reef is approximately $3,500, with families paying $1,000 for a memorial reef and the county covering the remainder. She highlighted the involvement of Destin High School, led by Mike Parker, which organized fundraisers for many fishermen who also had reefs placed. She described a unique memorial reef created by a couple from Ohio in memory of their son that included skateboards, BB

guns, and deer antlers, calling the project one that Destin can be proud of. She noted that the reef site is located in 60 feet of water, making it accessible for both diving and recreational fishing, and encouraged the city to voice its support for the program whenever possible.

C. Councilmember Destin

Councilmember Destin requested a report for the next meeting on the status of business license collections. Specifically,

- The number of business licenses for which payment has been successfully collected.
- The percentage of overall licenses that have been collected.

He expressed concern over the current process for business license applications, noting that there appears to be no pre-population of license data. He also commented that, based on his understanding, every applicant is required to apply as though they are a new licensee, which he found surprising and inefficient.

Councilmember Destin requested confirmation that the city council is receiving all motions made by advisory committees. He asked that staff, under the direction of the City Manager, verify that no motions are being missed and that all committee recommendations are properly transmitted to the council.

D. Councilmember Bagby

Councilmember Bagby asked for a public update on the status of Norriego Point project:

Staff/City Attorney update: The project was deemed substantially complete about a week ago, beginning the 30-day punch list period. After this, the adjacent private property owner must complete landscaping, irrigation, and the final asphalt lift for the road and parking area. They currently have the project completion by November 15th.

Councilmember Bagby announced that the city will receive its first batch of data from the Florida Department of Revenue regarding short-term rental owners and property addresses. The goal is to analyze missing and new data and reportfindings by the next council meeting in October.

Councilmember Bagby requested an update on condo milestone inspections required by law for building 30-plus years old.

The Deputy Community Development Director provided the following updates:

- 51 total reports required, 48 have been submitted.
- Three are still outstanding.
    - Two were returned due to invalid email contacts.

Councilmember Bagby stressed the importance of compliance to avoid city liability and asked staff to send him the names of the three non-compliant condos so he could help contact their managers.

E. Councilmember Hebert

Councilmember Hebert explained that she personally observed a boater at Joe's Bayou who was about to launch without paying. She reminded him of the $25 honor box fee, and he eventually agreed to pay. Councilmember Hebert asked if the city could use the new cameras to track people who fail to pay, including verifying license plates, and whether the cameras could be used to monitor such violations.

The Parks & Rec Director clarified that the cameras do not track vehicles or follow them around to verify payment. Additionally, some boaters have pre-purchased stickers that exempt them from paying at the honor box, which would make camera monitoring less straightforward. She mentioned that new parking cameras will be part of future improvements, which will help enforce compliance more effectively.

Councilmember Hebert relayed questions from residents asking why money were spent on another pier/bridge project when Joe's Bayou needs attention.

The Grants/Project Manager explained that the county is leading the Joe's Bayou upgrade project. Permitting is at the 60% design stage and will progress to 90% before bidding the project. He cautioned that construction may not begin next year due to permitting delays. He will get an updated schedule from the county or DEP for a clearer timeline.

Councilmember Hebert requested that an update on Joe's Bayou's permitting and construction timeline be placed on the agenda for the next meeting so residents can be informed of the project's status.

F. Councilmember Geile

Councilmember Geile moved to approve the expenditure of no more than $20,000 from the City Council Contingency Fund to refurbish the basketball courts at Buck Destin Park. The refurbishment will include filling cracks, leveling, recoating, and related repairs. Motion was seconded by Councilmember Hebert and passed 7-0.

Councilmemberk Geile asked to include his appointment of a member to the Harbor CRA Advisory Committee on the next council meeting agenda.

F. Councilmember Schmidt

Councilmember Schmidt praised the Parks & Rec Director and her staff for their excellent work maintaining the Destin Elementary School football field. He noted that after traveling to other cities for pee-wee football games, the Destin field stood out for being significantly nicer and well-kept. He shared a personal anecdote about his seven-year-old expressing excitement and pride upon arriving at Destin's first home game, reinforcing how well-maintained the field is compared to others.

Councilmember Schmidt shared that he is taking a new approach to life and encouraging others to reflect on James 1:19, which calls for being quick to listen, slow to speak, and slow to anger. He emphasized the importance of applying this principle daily and in council work, acknowledging that while members may not always agree, working together for the good of the city is crucial. He expressed his commitment to improving in this area and looks forward to serving for several more years.

H. Mayor Wagner

I. City Attorney

1) Pursuant to Section 286.011(8), Florida Statutes, the City Attorney desires the advice of counsel at an executive session on October 6, 2025 at 5:30 PM in the following litigation: City of Destin v. KYLE M. COLEMAN dba KYLE COLEMAN ICE CREAM aka GULF STREAM ICE CREAM, OHANA GELATOS LLC; and WOUNDED WARRIOR COMMISSARY, LLC; Case No. 2025-CA-002412A0010F, in the Circuit Court of Okaloosa County, Florida. Present at the litigation will be the City Attorney Kimberly Kopp, Litigation Counsel William Warner, City Manager Larry Jones, the Mayor and all members of the City Council.

7. PUBLIC COMMENTS

ADJOURNMENT

Having no further business at this time, the meeting was adjourned at 7:45 PM.

_____

Dewey Destin, Mayor Pro Tem

ATTEST:

_____

Rey Bailey, City Clerk

ITEM # 2025-1181

CITY OF DESTIN

AGENDA ITEM

COUNCIL MEETING DATE: October 20, 2025
TYPE OF AGENDA ITEM: Action Item
AGENDA OUTLINE NUMBER: 4.A.

TO: City Council

THRU: Larry Jones , City Manager
Kimberly Kopp, City Attorney

FROM: Jeffrey Cozadd, Projects, Grants and Contracts Manager
Krystal Strickland, Finance Director

DATE: 10/7/2025

SUBJECT: FDOT State Funded Grant Agreement G3G09 and Resolution 25-22

I. BACKGROUND:

II. DISCUSSION: The TRIP Grant Agreement was received by the city on 10/7/25 and has a grant ending date of 01/31/2027. FDOT has indicated that an extension will be allowed if needed. This funding will be used for the construction of Phase 2 of the Cross Town Connector Project - Azelea Drive Extension.

Attached to this agenda item is the TRIP Grant Agreement, accompanying Resolution, and budget amendment. Once the grant agreement is fully executed, the FDOT will issue the City a Notice to Proceed for advertisement of construction. The city must wait for that NTP before publicly advertising the Construction RFB.

A. Link to Strategic Goals / Objectives: 1.3 Complete two-lane Crosstown Connector

B. Effect on Budget (EOB): Acceptance of this grant agreement will also require a motion to increase the Capital Grant Budget by $2 million dollars.
The proposed budget amendment is attached.

Internal notes for Staff grant tracking accounts:
305.3410.334491 Grant#500054 Grant Revenue State-FDOT-TRIP Crosstown
305.5410.565000 Grant#500054 Grant Expenditures State-FDOT-TRIP Crosstown
305.0000.133406 Due from State FDOT Trip Crosstown

305.0000.223406 Unearned Rev State FDOT Trip Crosstown

C. **Level of Service (LOS):** Level of service will be increased.
D. **Legislative Sponsor:**
E. **Business Impact Statement:**

III. CONCLUSION: The grant agreement will provide $2,000,000 in FDOT funding to the project, staff recommends accepting the agreement and adopting the resolution.

IV. RECOMMENDED MOTION: I move that the City Council authorize the City Manager to execute G3G09 and adopt Resolution 25-22.
I move that the City Council adopt an amendment to the FY 2026 Budget to increase capital grant revenues and expenditures by $2 million dollars.

Attachments:

1. 2025 1020 FDOT TRIP Grant Budget Amendment
2. G3G09 Destin Crosstown Connector_SFGA_Draft 10.6
3. RESOLUTION 25-22 TRIP GRANT AGT FOR CC

CITY OF DESTIN Budget Amendment Form

Fiscal Year: 2026 **Posted Date:** _____

Fund	Department	GL Account String	Project/Grant#	Current Remaining Budget	Requested Increase/ (Decrease)	Revised Budget
305 Capital Grant Fund	3410 Public Works	305.3410.334491 TRIP Grant Revenue	500054	$ -	$ 2,000,000.00	$ 2,000,000.00
305 Capital Grant Fund	5410 Public Works	305.5410.565000 Construction in Progress	500054	$ -	$ 2,000,000.00	$ 2,000,000.00

Purpose: Increase Budget for FDOT TRIP Grant to complete Crosstown Connector Roadway from Benning to Beach Drive

Created by/Date: _____

Entered by/Date: _____

Approved by/Date: _____

STATE-FUNDED GRANT AGREEMENT

FPN: 440553-1-54-01	Fund: TRIP/TRWR	FLAIR Category: 088777
	Org Code: 55032010330	FLAIR Obj: 751000
FPN:	Fund:	FLAIR Category:
	Org Code:	FLAIR Obj:
FPN:	Fund:	FLAIR Category:
	Org Code:	FLAIR Obj:
County No: 57- Okaloosa	Contract No: G3G09	Vendor No: F592480854001

THIS STATE-FUNDED GRANT AGREEMENT ("Agreement") is entered into on _____, (This date to be entered by DOT only) by and between the State of Florida Department of Transportation, ("Department"), and City of Destin, ("Recipient"). The Department and the Recipient are sometimes referred to in this Agreement as a "Party" and collectively as the "Parties".

NOW, THEREFORE, in consideration of the mutual benefits to be derived from joint participation on the Project, the Parties agree to the following:

1. **Authority:** The Department is authorized to enter into this Agreement pursuant to Sections 334.044, 334.044(7), and (*select the applicable statutory authority for the program(s) below):*
   - ☐ Section 339.2817 Florida Statutes, County Incentive Grant Program (CIGP), (ALN 55.008)
   - ☐ Section 339.2818 Florida Statutes, Small County Outreach Program (SCOP), (ALN 55.009)
   - ☐ Section 339.2816 Florida Statutes, Small County Road Assistance Program (SCRAP), (ALN 55.016)
   - ☒ Section 339.2819 Florida Statutes, Transportation Regional Incentive Program (TRIP), (ALN 55.026)
   - ☐ Insert Legal Authority , Insert Funding Program Name , Insert ALN Number

   The Recipient by Resolution or other form of official authorization, a copy of which is attached as **Exhibit "D"**, **Recipient Resolution**, and made a part of this Agreement, has authorized its officers to execute this Agreement on its behalf.

2. **Purpose of Agreement:** The purpose of this Agreement is to provide for the Department's participation in Destin Cross Town Connector Phase II from Benning Drive to Beach Drive Construction, as further described in **Exhibit "A", Project Description and Responsibilities**, attached to and incorporated into this Agreement ("Project"); to provide Department financial assistance to the Recipient; state the terms and conditions upon which Department funds will be provided; and to set forth the manner in which the Project will be undertaken and completed.

3. **Term of the Agreement, Commencement and Completion of the Project:** This Agreement shall commence upon full execution by both Parties and the Recipient shall complete the Project on or before 01/31/2027. If the Recipient does not complete the Project within this time period, this Agreement will expire on the last day of the scheduled completion as provided in this paragraph unless an extension of the time period is requested by the Recipient and granted in writing by the Department prior to the expiration of this Agreement. Expiration of this Agreement will be considered termination of the Project. The Recipient acknowledges that no funding for the Project will be provided by the State under this Agreement for work on the Project that is not timely completed and invoiced in accordance with the terms of this Agreement, or for work performed prior to full execution of the Agreement. Notwithstanding the expiration of the required completion date provided in this Agreement and the consequent potential unavailability of any unexpended portion of State funding to be provided under this Agreement, the Recipient shall remain obligated to complete all aspects of the Project identified in **Exhibit "A"** in accordance with the remaining terms of this Agreement, unless otherwise agreed by the Parties, in writing.

Execution of this Agreement by both Parties shall be deemed a Notice to Proceed to the Recipient for the design phase or other non-construction phases of the Project. If the Project involves a construction phase, the Recipient shall not begin the construction phase of the Project until the Department issues a written Notice to Proceed for the construction phase. Prior to commencing the construction work described in this Agreement, the Recipient shall request a Notice to Proceed from the Department.

4. **Amendments, Extensions and Assignment:** This Agreement may be amended or extended upon mutual written agreement of the Parties. This Agreement shall not be assigned, transferred or otherwise encumbered by the Recipient under any circumstances without the prior written consent of the Department.

5. **Termination or Suspension of Project:** The Department may, by written notice to the Recipient, suspend any or all of the Department's obligations under this Agreement for the Recipient's failure to comply with applicable laws or the terms of this Agreement until such time as the event or condition resulting in such suspension has ceased or been corrected. The Department may also terminate this Agreement in whole or in part at any time the interest of the Department requires such termination.

    a. If the Department terminates the Agreement, the Department shall notify the Recipient of such termination in writing within thirty (30) days of the Department's determination to terminate the Agreement, with instructions as to the effective date of termination or to specify the stage of work at which the Agreement is to be terminated.

    b. The Parties to this Agreement may also terminate this Agreement when its continuation would not produce beneficial results commensurate with the further expenditure of funds. In this event, the Parties shall agree upon the termination conditions through mutual written agreement.

    c. If the Agreement is terminated before performance is completed, the Recipient shall be paid only for that work satisfactorily performed for which costs can be substantiated. Such payment, however, may not exceed an amount which is the same percentage of the contract price as the amount of work satisfactorily completed is a percentage of the total work called for by this Agreement. All work in progress on the Department right-of-way will become the property of the Department and will be turned over promptly by the Recipient.

    d. Upon termination of this Agreement, the Recipient shall, within thirty (30) days, refund to the Department any funds determined by the Department to have been expended in violation of this Agreement.

6. **Project Cost:**

    a. The estimated cost of the Project is $9,632,529.00. This amount is based upon the Schedule of Financial Assistance in **Exhibit "B", Schedule of Financial Assistance**, attached and incorporated in this Agreement. The Schedule of Financial Assistance may be modified by execution of an amendment of the Agreement by the Parties.

    b. The Department agrees to participate in the Project cost up to the maximum amount of $2,000,000.00 and, additionally the Department's participation in the Project shall not exceed 50% of the total cost of the Project, and as more fully described in **Exhibit "B"**. The Department's participation may be increased or reduced upon a determination of the actual bid amounts of the Project by the execution of an amendment. The Recipient agrees to bear all expenses in excess of the amount of the Department's participation and any cost overruns or deficits incurred in connection with completion of the Project.

    c. The Department's participation in eligible Project costs is subject to, but not limited to:

        i. Legislative approval of the Department's appropriation request in the work program year that the Project is scheduled to be committed;

        ii. Approval of all plans, specifications, contracts or other obligating documents and all other terms of this Agreement; and

iii. Department approval of the Project scope and budget at the time appropriation authority becomes available.

7. Compensation and Payment:

a. The Department shall reimburse the Recipient for costs incurred to perform services described in the Project Description and Responsibilities in **Exhibit "A**", and as set forth in the Schedule of Financial Assistance in **Exhibit "B"**.

b. The Recipient shall provide quantifiable, measurable, and verifiable units of deliverables. Each deliverable must specify the required minimum level of service to be performed and the criteria for evaluating successful completion. The Project and the quantifiable, measurable, and verifiable units of deliverables are described more fully in **Exhibit "A"**, Project Description and Responsibilities. Any changes to the deliverables shall require an amendment executed by both parties.

c. Invoices shall be submitted no more often than monthly and no less than quarterly by the Recipient in detail sufficient for a proper pre-audit and post-audit, based on the quantifiable, measurable and verifiable deliverables as established in **Exhibit "A"**. Deliverables and costs incurred must be received and approved by the Department prior to reimbursements. Requests for reimbursement by the Recipient shall include an invoice, progress report and supporting documentation for the period of services being billed that are acceptable to the Department. The Recipient shall use the format for the invoice and progress report that is approved by the Department.

d. If Recipient is considered a rural community or rural area of opportunity, as these terms are defined by Section 288.0656(2), Florida Statutes, Recipient may submit payment requests for eligible performance completed/costs incurred under this Agreement pursuant to **Exhibit "H", Alternative Advance Payment Financial Provisions**.

e. Supporting documentation must establish that the deliverables were received and accepted in writing by the Recipient and must also establish that the required minimum standards or level of service to be performed based on the criteria for evaluating successful completion as specified in **Exhibit "A"** has been met. All costs invoiced shall be supported by properly executed payrolls, time records, invoices, contracts or vouchers evidencing in proper detail the nature and propriety of charges as described in **Exhibit "F", Contract Payment Requirements**.

f. Travel expenses are not compensable under this Agreement.

g. Payment shall only be made after receipt and approval of deliverables and costs incurred unless the payment is made under **Exhibit "H"** or advance payments are authorized by the Chief Financial Officer of the State of Florida under Chapters 215 and 216, Florida Statutes or the Department's Comptroller under Section 334.044(29), Florida Statutes.

If the Department determines that the performance of the Recipient is unsatisfactory, the Department shall notify the Recipient of the deficiency to be corrected, which correction shall be made within a time-frame to be specified by the Department. The Recipient shall, within thirty (30) days after notice from the Department, provide the Department with a corrective action plan describing how the Recipient will address all issues of contract non-performance, unacceptable performance, failure to meet the minimum performance levels, deliverable deficiencies, or contract non-compliance. If the corrective action plan is unacceptable to the Department, the Recipient will not be reimbursed or paid under **Exhibit "H"**, to the extent of the non-performance. The Recipient will not be reimbursed or paid until the Recipient resolves the deficiency. If the deficiency is subsequently resolved, the Recipient may bill the Department for any unpaid performance completed by the Recipient during the next billing period or as provided by **Exhibit "H",** Alternative Advance Payment Financial Provisions. If the Recipient is unable to resolve the deficiency, the funds shall be forfeited at the end of the Agreement's term.

Recipients receiving financial assistance from the Department should be aware of the following time frames. Inspection and approval of deliverables and costs incurred shall take no longer than 20 days from the Department's receipt of the invoice. The Department has 20 days to deliver a request for

payment (voucher) to the Department of Financial Services. The 20 days are measured from the latter of the date the invoice is received or the deliverables and costs incurred are received, inspected, and approved.

If a payment is not available within 40 days, a separate interest penalty at a rate as established pursuant to Section 55.03(1), Florida Statutes, will be due and payable, in addition to the invoice amount, to the Recipient. Interest penalties of less than one (1) dollar will not be enforced unless the Recipient requests payment. Invoices that have to be returned to a Recipient because of Recipient preparation errors will result in a delay in the payment. The invoice payment requirements do not start until a properly completed invoice is provided to the Department.

A Vendor Ombudsman has been established within the Department of Financial Services. The duties of this individual include acting as an advocate for Recipient who may be experiencing problems in obtaining timely payment(s) from a state agency. The Vendor Ombudsman may be contacted at (850) 413-5516.

h. The Recipient shall maintain an accounting system or separate accounts to ensure funds and projects are tracked separately. Records of costs incurred under the terms of this Agreement shall be maintained and made available upon request to the Department at all times during the period of this Agreement and for five years after final payment is made. Copies of these documents and records shall be furnished to the Department upon request. Records of costs incurred include the Recipient's general accounting records and the project records, together with supporting documents and records, of the contractor and all subcontractors performing work on the project, and all other records of the contractor and subcontractors considered necessary by the Department for a proper audit of costs.

i. **Progress Reports.** Upon request, the Recipient agrees to provide progress reports to the Department in the standard format used by the Department and at intervals established by the Department. The Department will be entitled at all times to be advised, at its request, as to the status of the Project and of details thereof.

j. If, after Project completion, any claim is made by the Department resulting from an audit or for work or services performed pursuant to this Agreement, the Department may offset such amount from payments due for work or services done under any agreement which it has with the Recipient owing such amount if, upon demand, payment of the amount is not made within 60 days to the Department. Offsetting any amount pursuant to this paragraph shall not be considered a breach of contract by the Department.

k. The Recipient must submit the final invoice on the Project to the Department within 120 days after the completion of the Project. Invoices submitted after the 120-day time period may not be paid.

l. The Department’s performance and obligation to pay under this Agreement is contingent upon an annual appropriation by the Legislature. If the Department's financial assistance for this Project is in multiple fiscal years, a notice of availability of funds from the Department’s project manager must be received prior to costs being incurred by the Recipient. See **Exhibit “B”** for funding levels by fiscal year. Project costs utilizing any fiscal year funds are not eligible for reimbursement if incurred prior to funds approval being received. The Department will notify the Recipient, in writing, when funds are available.

m. In the event this Agreement is in excess of $25,000 and has a term for a period of more than one year, the provisions of Section 339.135(6)(a), Florida Statutes, are hereby incorporated:

> "The Department, during any fiscal year, shall not expend money, incur any liability, or enter into any contract which, by its terms, involves the expenditure of money in excess of the amounts budgeted as available for expenditure during such fiscal year. Any contract, verbal or written, made in violation of this subsection is null and void, and no money may be paid on such contract. The Department shall require a statement from the comptroller of the Department that funds are available prior to entering into any such contract or other binding commitment of funds. Nothing herein contained shall prevent the making of contracts for periods exceeding 1 year, but any contract so made shall be executory only for the value of the services to be rendered or agreed to be paid for in succeeding fiscal years, and this paragraph shall be incorporated verbatim in all contracts of the Department

which are for an amount in excess of $25,000 and which have a term for a period of more than 1 year."

n. Any Project funds made available by the Department pursuant to this Agreement which are determined by the Department to have been expended by the Recipient in violation of this Agreement or any other applicable law or regulation, shall be promptly refunded in full to the Department. Acceptance by the Department of any documentation or certifications, mandatory or otherwise permitted, that the Recipient files shall not constitute a waiver of the Department's rights as the funding agency to verify all information at a later date by audit or investigation.

o. In determining the amount of the payment, the Department will exclude all Project costs incurred by the Recipient prior to the execution of this Agreement, costs incurred prior to issuance of a Notice to Proceed, costs incurred after the expiration of the Agreement, costs which are not provided for in the latest approved Schedule of Financial Assistance in **Exhibit "B"** for the Project, costs agreed to be borne by the Recipient or its contractors and subcontractors for not meeting the Project commencement and final invoice time lines, and costs attributable to goods or services received under a contract or other arrangements which have not been approved in writing by the Department.

8. General Requirements:

The Recipient shall complete the Project with all practical dispatch in a sound, economical, and efficient manner, and in accordance with the provisions in this Agreement and all applicable laws.

a. The Recipient must obtain written approval from the Department prior to performing itself (through the efforts of its own employees) any aspect of the Project that will be funded under this Agreement.

☐ If this box is checked, then the Agency is permitted to utilize its own forces and the following provision applies: **Use of Agency Workforce.** In the event the Agency proceeds with any phase of the Project utilizing its own forces, the Agency will only be reimbursed for direct costs (this excludes general overhead).

b. The Recipient shall provide to the Department certification and a copy of appropriate documentation substantiating that all required right-of-way necessary for the Project has been obtained. Certification is required prior to authorization for advertisement for or solicitation of bids for construction of the Project, including if no right-of-way is required.

c. The Recipient shall comply and require its contractors and subcontractors to comply with all terms and conditions of this Agreement and all federal, state, and local laws and regulations applicable to this Project.

d. The Recipient shall have the sole responsibility for resolving claims and requests for additional work for the Project by the Recipient's contractors and consultants. No funds will be provided for payment of claims or additional work on the Project under this Agreement without the prior written approval of the claim or request for additional work by Department.

9. Contracts of the Recipient

a. The Department has the right to review and approve any and all third party contracts with respect to the Project before the Recipient executes any contract or obligates itself in any manner requiring the disbursement of Department funds under this Agreement, including consultant or construction contracts or amendments thereto. If the Department exercises this right and the Recipient fails to obtain such approval, the Department may deny payment to the Recipient. The Department may review the qualifications of any consultant or contractor and to approve or disapprove the employment of such consultant or contractor.

b. It is understood and agreed by the parties hereto that participation by the Department in a project that involves the purchase of commodities or contractual services or the purchasing of capital equipment or the equipping of facilities, where purchases or costs exceed the Threshold Amount for CATEGORY TWO per Chapter 287.017 Florida Statutes, is contingent on the Recipient complying in full with the provisions of Chapter 287.057 Florida Statutes The Recipient shall certify to the Department that the purchase of

commodities or contractual services has been accomplished in compliance with Chapter 287.057 Florida Statutes It shall be the sole responsibility of the Recipient to ensure that any obligations made in accordance with this Section comply with the current threshold limits. Contracts, purchase orders, task orders, construction change orders, or any other agreement that would result in exceeding the current budget contained in **Exhibit "B"**, or that are not consistent with the Project description and scope of services contained in **Exhibit "A"** must be approved by the Department prior to Recipient execution. Failure to obtain such approval, and subsequent execution of an amendment to the Agreement if required, shall be sufficient cause for nonpayment by the Department.

c. Participation by the Department in a project that involves a consultant contract for engineering, architecture or surveying services, is contingent on the Recipient's complying in full with provisions of Section 287.055, Florida Statutes, Consultants' Competitive Negotiation Act. In all cases, the Recipient shall certify to the Department that selection has been accomplished in compliance with the Consultants' Competitive Negotiation Act.

d. If the Project is procured pursuant to Chapter 255, Florida Statutes, for construction services and the cost of the Project is to be paid from state-appropriated funds, then the Recipient must comply with the requirements of Section 255.0991, Florida Statutes.

10. Design and Construction Standards and Required Approvals: In the event the Project includes construction the following provisions are incorporated into this Agreement:

a. The Recipient is responsible for obtaining all permits necessary for the Project.

b. In the event the Project involves construction on the Department's right-of-way, the Recipient shall provide the Department with written notification of either its intent to:

i. Award the construction of the Project to a Department prequalified contractor which is the lowest and best bidder in accordance with applicable state and federal statutes, rules, and regulations. The Recipient shall then submit a copy of the bid tally sheet(s) and awarded bid contract, or

ii. Construct the Project utilizing existing Recipient employees, if the Recipient can complete said Project within the time frame set forth in this Agreement. The Recipient's use of this option is subject to approval by the Department.

c. The Recipient shall hire a qualified contractor using the Recipient's normal bid procedures to perform the construction work for the Project. For projects that are not located on the Department's right-of-way, the Recipient is not required to hire a contractor prequalified by the Department unless the Department notifies the Recipient prior to letting that they are required to hire a contractor prequalified by the Department.

d. The Recipient is responsible for provision of Construction Engineering Inspection (CEI) services. The Department reserves the right to require the Recipient to hire a Department pre-qualified consultant firm that includes one individual that has completed the Advanced Maintenance of Traffic Level Training. Notwithstanding any provision of law to the contrary, design services and CEI services may not be performed by the same entity. Administration of the CEI staff shall be under the responsible charge of a State of Florida Licensed Professional Engineer who shall provide the certification that all design and construction for the Project meets the minimum construction standards established by Department. The Department shall have the right to approve the CEI firm. The Department shall have the right, but not the obligation, to perform independent assurance testing during the course of construction of the Project. Subject to the approval of the Department, the Recipient may choose to satisfy the requirements set forth in this paragraph by either hiring a Department prequalified consultant firm or utilizing Recipient staff that meet the requirements of this paragraph, or a combination thereof.

e. The Recipient is responsible for the preparation of all design plans for the Project. The Department reserves the right to require the Recipient to hire a Department pre-qualified consultant for the design phase of the Project using the Recipient's normal procurement procedures to perform the design services for the Project. Notwithstanding any provision of law to the contrary, design services and CEI services may not be

performed by the same entity. All design work on the Project shall be performed in accordance with the requirements of all applicable laws and governmental rules and regulations and federal and state accepted design standards for the type of construction contemplated by the Project, including, as applicable, but not limited to, the applicable provisions of the Manual of Uniform Traffic Control Devices (MUTCD) and the AASHTO Policy on Geometric Design of Streets and Highways. If any portion of the Project will be located on, under, or over any Department-owned right-of-way, the Department shall review the Project's design plans for compliance with all applicable standards of the Department, as provided in **Exhibit "O", Terms and Conditions of Construction**, which is attached to and incorporated into this Agreement.

f. The Recipient shall adhere to the Department's Conflict of Interest Procedure (FDOT Topic No. 375-030-006).

g. The Recipient will provide copies of the final design plans and specifications and final bid documents to the Department's Construction Project Manager prior to commencing construction of the Project. The Department will specify the number of copies required and the required format.

h. The Recipient shall require the Recipient's contractor to post a payment and performance bond in accordance with applicable law.

i. The Recipient shall be responsible to ensure that the construction work under this Agreement is performed in accordance with the approved construction documents, and that it will meet all applicable Recipient and Department standards.

j. Upon completion of the work authorized by this Agreement, the Recipient shall notify the Department in writing of the completion of construction of the Project; and for all design work that originally required certification by a Professional Engineer, this notification shall contain an Engineers Certification of Compliance, signed and sealed by a Professional Engineer, the form of which is attached hereto and incorporated herein as **Exhibit "C", Engineers Certification of Completion**. The certification shall state that work has been completed in compliance with the Project construction plans and specifications. If any deviations are found from the approved plans, the certification shall include a list of all deviations along with an explanation that justifies the reason to accept each deviation.

k. The Recipient shall provide the Department with as-built plans of any portions of the Project funded through the Agreement prior to final inspection.

11. Maintenance Obligations: In the event the Project includes construction then the following provisions are incorporated into this Agreement:

a. The Recipient agrees to maintain any portion of the Project not located on the State Highway System constructed under this Agreement for its useful life. If the Recipient constructs any improvement on Department right-of-way, the Recipient

☒ shall

☐ shall not

maintain the improvements located on the Department right-of-way made for their useful life. If the Recipient is required to maintain Project improvements located on the Department right-of-way beyond final acceptance, then Recipient shall, prior to any disbursement of the State funding provided under this Agreement, also execute a Maintenance Memorandum of Agreement in a form that is acceptable to the Department. The Recipient has agreed to the foregoing by resolution, and such resolution is attached and incorporated into this Agreement as **Exhibit "D"**. This provision will survive termination of this Agreement.

12. State Single Audit: The administration of resources awarded through the Department to the Recipient by this Agreement may be subject to audits and/or monitoring by the Department. The following requirements do not limit the authority of the Department to conduct or arrange for the conduct of additional audits or evaluations of state financial assistance or limit the authority of any state agency inspector general, the Auditor General, or any other state official. The Recipient shall comply with all audit and audit reporting requirements as specified below.

a. In addition to reviews of audits conducted in accordance with Section 215.97, Florida Statutes, monitoring procedures to monitor the Recipient's use of state financial assistance may include but not be limited to on-site visits by Department staff and/or other procedures including, reviewing any required performance and financial reports, following up, ensuring corrective action, and issuing management decisions on weaknesses found through audits when those findings pertain to state financial assistance awarded through the Department by this Agreement. By entering into this Agreement, the Recipient agrees to comply and cooperate fully with any monitoring procedures/processes deemed appropriate by the Department. The Recipient further agrees to comply and cooperate with any inspections, reviews, investigations, or audits deemed necessary by the Department, the Department of Financial Services (DFS) or the Auditor General.

b. The Recipient, a nonstate entity as defined by Section 215.97(2)(n), Florida Statutes, as a recipient of state financial assistance awarded by the Department through this Agreement is subject to the following requirements:

i. In the event the Recipient meets the audit threshold requirements established by Section 215.97, Florida Statutes, the Recipient must have a State single or project-specific audit conducted for such fiscal year in accordance with Section 215.97, Florida Statutes; applicable rules of the Department of Financial Services; and Chapters 10.550 (local governmental entities) or 10.650 (nonprofit and for-profit organizations), Rules of the Auditor General. **Exhibit "J", State Financial Assistance (Florida Single Audit Act)** to this Agreement indicates state financial assistance awarded through the Department by this Agreement needed by the Recipient to further comply with the requirements of Section 215.97, Florida Statutes. In determining the state financial assistance expended in a fiscal year, the Recipient shall consider all sources of state financial assistance, including state financial assistance received from the Department by this Agreement, other state agencies and other nonstate entities. State financial assistance does not include Federal direct or pass-through awards and resources received by a nonstate entity for Federal program matching requirements.

ii. In connection with the audit requirements, the Recipient shall ensure that the audit complies with the requirements of Section 215.97(8), Florida Statutes. This includes submission of a financial reporting package as defined by Section 215.97(2)(e), Florida Statutes, and Chapters 10.550 (local governmental entities) or 10.650 (nonprofit and for-profit organizations), Rules of the Auditor General.

iii. In the event the Recipient does not meet the audit threshold requirements established by Section 215.97, Florida Statutes, the Recipient is exempt for such fiscal year from the state single audit requirements of Section 215.97, Florida Statutes. However, the Recipient must provide a single audit exemption statement to the Department at FDOTSingleAudit@dot.state.fl.us no later than nine months after the end of the Recipient's audit period for each applicable audit year. In the event the Recipient does not meet the audit threshold requirements established by Section 215.97, Florida Statutes, in a fiscal year and elects to have an audit conducted in accordance with the provisions of Section 215.97, Florida Statutes, the cost of the audit must be paid from the Recipient's resources (i.e., the cost of such an audit must be paid from the Recipient's resources obtained from other than State entities).

iv. In accordance with Chapters 10.550 (local governmental entities) or 10.650 (nonprofit and for-profit organizations), Rules of the Auditor General, copies of financial reporting packages required by this Agreement shall be submitted to:

Florida Department of Transportation
Office of Comptroller, MS 24
605 Suwannee Street
Tallahassee, FL 32399-0405
Email: FDOTSingleAudit@dot.state.fl.us

And

State of Florida Auditor General
Local Government Audits/342
111 West Madison Street, Room 401
Tallahassee, FL 32399-1450
Email: flaudgen_localgovt@aud.state.fl.us

v. Any copies of financial reporting packages, reports or other information required to be submitted to the Department shall be submitted timely in accordance with Section 215.97, Florida Statutes, and Chapters 10.550 (local governmental entities) or 10.650 (nonprofit and for-profit organizations), Rules of the Auditor General, as applicable.

vi. The Recipient, when submitting financial reporting packages to the Department for audits done in accordance with Chapters 10.550 (local governmental entities) or 10.650 (nonprofit and for-profit organizations), Rules of the Auditor General, should indicate the date the reporting package was delivered to the Recipient in correspondence accompanying the reporting package.

vii. Upon receipt, and within six months, the Department will review the Recipient's financial reporting package, including corrective action plans and management letters, to the extent necessary to determine whether timely and appropriate corrective action on all deficiencies has been taken pertaining to the state financial assistance provided through the Department by this Agreement. If the Recipient fails to have an audit conducted consistent with Section 215.97, Florida Statutes, the Department may take appropriate corrective action to enforce compliance.

viii. As a condition of receiving state financial assistance, the Recipient shall permit the Department, or its designee, DFS or the Auditor General access to the Recipient's records including financial statements, the independent auditor's working papers and project records as necessary. Records related to unresolved audit findings, appeals or litigation shall be retained until the action is complete or the dispute is resolved.

c. The Recipient shall retain sufficient records demonstrating its compliance with the terms of this Agreement for a period of five years from the date the audit report is issued and shall allow the Department, or its designee, DFS or the Auditor General access to such records upon request. The Recipient shall ensure that the audit working papers are made available to the Department, or its designee, DFS or the Auditor General upon request for a period of five years from the date the audit report is issued unless extended in writing by the Department.

13. Restrictions, Prohibitions, Controls and Labor Provisions:

a. A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity; may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, Florida Statutes, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

b. In accordance with Section 287.134, Florida Statutes, an entity or affiliate who has been placed on the Discriminatory Vendor List, kept by the Florida Department of Management Services, may not submit a bid on a contract to provide goods or services to a public entity; may not submit a bid on a contract with a public

entity for the construction or repair of a public building or public work; may not submit bids on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor or consultant under a contract with any public entity; and may not transact business with any public entity.

c. An entity or affiliate who has had its Certificate of Qualification suspended, revoked, denied or have further been determined by the Department to be a non-responsible contractor may not submit a bid or perform work for the construction or repair of a public building or public work on a contract with the Recipient.

d. No funds received pursuant to this Agreement may be expended for lobbying the Florida Legislature, judicial branch, or any state agency, in accordance with Section 216.347, Florida Statutes.

e. The Department shall consider the employment by any contractor of unauthorized aliens a violation of Section 274A(e) of the Immigration and Nationality Act. If the contractor knowingly employs unauthorized aliens, such violation will be cause for unilateral cancellation of this Agreement.

f. The Recipient shall:

i. Utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Recipient during the term of the contract; and

ii. Expressly require any contractor and subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the contractor and subcontractor during the contract term.

g. The Recipient shall comply and require its contractors and subcontractors to comply with all terms and conditions of this Agreement and all federal, state, and local laws and regulations applicable to this Project.

h. In accordance with Section 787.06(13), Florida Statutes, the Recipient must verify its contractors or subcontractors are not engaged in coercion for labor or services.

14. Indemnification and Insurance:

a. It is specifically agreed between the parties executing this Agreement that it is not intended by any of the provisions of any part of this Agreement to create in the public or any member thereof, a third-party beneficiary under this Agreement, or to authorize anyone not a party to this Agreement to maintain a suit for personal injuries or property damage pursuant to the terms or provisions of this Agreement. The Recipient guarantees the payment of all just claims for materials, supplies, tools, or labor and other just claims against the Recipient or any subcontractor, in connection with this Agreement.

b. To the extent provided by law, Recipient shall indemnify, defend, and hold harmless the Department against any actions, claims, or damages arising out of, relating to, or resulting from negligent or wrongful act(s) of Recipient, or any of its officers, agents, or employees, acting within the scope of their office or employment, in connection with the rights granted to or exercised by Recipient hereunder, to the extent and within the limitations of Section 768.28, Florida Statutes. The foregoing indemnification shall not constitute a waiver of the Department's or the Recipient's sovereign immunity beyond the limits set forth in Florida Statutes, Section 768.28, nor shall the same be construed to constitute agreement by Recipient to indemnify the Department for the negligent acts or omissions of the Department, its officers, agents, or employees, or for the acts of third parties. Nothing herein shall be construed as consent by Recipient to be sued by third parties in any manner arising out of this Agreement. This indemnification shall survive the termination of this Agreement.

c. Recipient agrees to include the following indemnification in all contracts with contractors, subcontractors, consultants, or subconsultants (each referred to as "Entity" for the purposes of the below indemnification) who perform work in connection with this Agreement:

"To the extent provided by law, [ENTITY] shall indemnify, defend, and hold harmless the [RECIPIENT] and the State of Florida, Department of Transportation, including the Department's officers, agents, and employees, against any actions, claims, or damages arising out of, relating to, or resulting from negligent or wrongful act(s) of [ENTITY], or any of its officers, agents, or employees, acting within the scope of their office or employment, in connection with the rights granted to or exercised by [ENTITY].

The foregoing indemnification shall not constitute a waiver of the Department's or [RECIPIENT']'s sovereign immunity beyond the limits set forth in Florida Statutes, Section 768.28. Nor shall the same be construed to constitute agreement by [ENTITY] to indemnify [RECIPIENT] for the negligent acts or omissions of [RECIPIENT], its officers, agents, or employees, or third parties. Nor shall the same be construed to constitute agreement by [ENTITY] to indemnify the Department for the negligent acts or omissions of the Department, its officers, agents, or employees, or third parties. This indemnification shall survive the termination of this Agreement."

d. The Recipient shall provide Workers' Compensation Insurance in accordance with Florida's Workers' Compensation law for all employees. If subletting any of the work, ensure that the subcontractor(s) and subconsultants have Workers' Compensation Insurance for their employees in accordance with Florida's Workers' Compensation law. If using "leased employees" or employees obtained through professional employer organizations ("PEO's"), ensure that such employees are covered by Workers' Compensation insurance through the PEO's or other leasing entities. Ensure that any equipment rental agreements that include operators or other personnel who are employees of independent contractors, sole proprietorships or partners are covered by insurance required under Florida's Workers' Compensation law.

e. If the Recipient elects to self-perform the Project, and such self-performance is approved by the Department in accordance with the terms of this Agreement, the Recipient may self-insure and proof of self-insurance shall be provided to the Department. If the Recipient elects to hire a contractor or consultant to perform the Project, then the Recipient shall, or cause its contractor or consultant to carry Commercial General Liability insurance providing continuous coverage for all work or operations performed under the Agreement. Such insurance shall be no more restrictive than that provided by the latest occurrence form edition of the standard Commercial General Liability Coverage Form (ISO Form CG 00 01) as filed for use in the State of Florida. Recipient shall, or cause its contractor to cause the Department to be made an Additional Insured as to such insurance. Such coverage shall be on an "occurrence" basis and shall include Products/Completed Operations coverage. The coverage afforded to the Department as an Additional Insured shall be primary as to any other available insurance and shall not be more restrictive than the coverage afforded to the Named Insured. The limits of coverage shall not be less than $1,000,000 for each occurrence and not less than a $5,000,000 annual general aggregate, inclusive of amounts provided by an umbrella or excess policy. The limits of coverage described herein shall apply fully to the work or operations performed under the Agreement, and may not be shared with or diminished by claims unrelated to the Agreement. The policy/ies and coverage described herein may be subject to a deductible and such deductibles shall be paid by the Named Insured. No policy/ies or coverage described herein may contain or be subject to a Retention or a Self-Insured Retention unless the Recipient is a state agency or subdivision of the State of Florida that elects to self-perform the Project. Prior to the execution of the Agreement, and at all renewal periods which occur prior to final acceptance of the work, the Department shall be provided with an ACORD Certificate of Liability Insurance reflecting the coverage described herein. The Department shall be notified in writing within ten days of any cancellation, notice of cancellation, lapse, renewal, or proposed change to any policy or coverage described herein. The Department's approval or failure to disapprove any policy/ies, coverage, or ACORD Certificates shall not relieve or excuse any obligation to procure and maintain the insurance required herein, nor serve as a waiver of any rights or defenses the Department may have.

f. When the Agreement includes the construction of a railroad grade crossing, railroad overpass or underpass structure, or any other work or operations within the limits of the railroad right-of-way, including any encroachments thereon from work or operations in the vicinity of the railroad right-of-way, the Recipient shall, or cause its contractor to, in addition to the insurance coverage required above, procure and maintain Railroad Protective Liability Coverage (ISO Form CG 00 35) where the railroad is the Named Insured and where the limits are not less than $2,000,000 combined single limit for bodily injury and/or property damage per occurrence, and with an annual aggregate limit of not less than $6,000,000. The railroad shall also be

added along with the Department as an Additional Insured on the policy/ies procured pursuant to the paragraph above. Prior to the execution of the Agreement, and at all renewal periods which occur prior to final acceptance of the work, both the Department and the railroad shall be provided with an ACORD Certificate of Liability Insurance reflecting the coverage described herein. The insurance described herein shall be maintained through final acceptance of the work. Both the Department and the railroad shall be notified in writing within ten days of any cancellation, notice of cancellation, renewal, or proposed change to any policy or coverage described herein. The Department's approval or failure to disapprove any policy/ies, coverage, or ACORD Certificates shall not relieve or excuse any obligation to procure and maintain the insurance required herein, nor serve as a waiver of any rights the Department may have.

g. When the Agreement involves work on or in the vicinity of utility-owned property or facilities, the utility shall be added along with the Department as an Additional Insured on the Commercial General Liability policy/ies procured above.

15. Miscellaneous:

a. In no event shall any payment to the Recipient constitute or be construed as a waiver by the Department of any breach of covenant or any default which may then exist on the part of the Recipient and the making of such payment by the Department, while any such breach or default shall exist, shall in no way impair or prejudice any right or remedy available to the Department with respect to such breach or default.

b. If any provision of this Agreement is held invalid, the remainder of this Agreement shall not be affected. In such an instance, the remainder would then continue to conform to the terms and requirements of applicable law.

c. The Recipient and the Department agree that the Recipient, its employees, contractors, subcontractors, consultants, and subconsultants are not agents of the Department as a result of this Agreement.

d. By execution of the Agreement, the Recipient represents that it has not paid and, also agrees not to pay, any bonus or commission for the purpose of obtaining an approval of its application for the financing hereunder.

e. Nothing in the Agreement shall require the Recipient to observe or enforce compliance with any provision or perform any act or do any other thing in contravention of any applicable state law. If any of the provisions of the Agreement violate any applicable state law, the Recipient will at once notify the Department in writing in order that appropriate changes and modifications may be made by the Department and the Recipient to the end that the Recipient may proceed as soon as possible with the Project.

f. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which shall constitute the same Agreement. A facsimile or electronic transmission of this Agreement with a signature on behalf of a party will be legal and binding on such party.

g. The Department reserves the right to unilaterally terminate this Agreement for failure by the Recipient to comply with the provisions of Chapter 119, Florida Statutes.

h. The Recipient agrees to comply with Section 20.055(5), Florida Statutes, and to incorporate in all subcontracts the obligation to comply with Section 20.055(5), Florida Statutes

i. This Agreement shall be governed by and construed in accordance with the laws of the State of Florida. In the event of a conflict between any portion of the contract and Florida law, the laws of Florida shall prevail. The Recipient agrees to waive forum and venue and that the Department shall determine the forum and venue in which any dispute under this Agreement is decided.

j. This Agreement does not involve the purchase of Tangible Personal Property, as defined in Chapter 273, Florida Statutes.

16. Exhibits.

a. **Exhibits A, B, D, F, H,** and **J** are attached to and incorporated into this Agreement.

b. ☒ The Project will involve construction, therefore, **Exhibit "C"**, Engineer's Certification of Compliance is attached and incorporated into this Agreement.

c. ☐ This Project utilizes Advance Project Reimbursement. If this Project utilizes Advance Project Reimbursement, then **Exhibit "K"**, Advance Project Reimbursement is attached and incorporated into this Agreement.

d. ☐ A portion or all of the Project will utilize the Department's right-of-way and, therefore, **Exhibit O**, **Terms and Conditions of Construction in Department Right-of-Way**, is attached and incorporated into this Agreement.

e. ☐ The following Exhibit(s), in addition to those listed in 16.a. through 16.f., are attached and incorporated into this Agreement: _____

f. Exhibit and Attachment List

Exhibit A: Project Description and Responsibilities
Exhibit B: Schedule of Financial Assistance
* Exhibit C: Engineer's Certification of Compliance
Exhibit D: Recipient Resolution
Exhibit F: Contract Payment Requirements
* Exhibit H: Alternative Advance Payment Financial Provisions
Exhibit J: State Financial Assistance (Florida Single Audit Act)
* Exhibit K: Advance Project Reimbursement
* Exhibit O: Terms and Conditions of Construction in Department Right-of-Way

*Additional Exhibit(s):
*Indicates that the Exhibit is only attached and incorporated if applicable box is selected.

The remainder of this page intentionally left blank.

IN WITNESS WHEREOF, the Parties have executed this Agreement on the day and year written above.

RECIPIENT:
City of Destin
4200 Indian Bayou Trail
Destin, Florida 32541

By: _____

Name: Larry Jones

Title: City Manager

STATE OF FLORIDA,
DEPARTMENT OF TRANSPORTATION

By: _____

Name: Rodney Chamberlain, P.E.

Title: Director of Transportation Development

Legal Review:

By: _____

Name: _____

EXHIBIT A

PROJECT DESCRIPTION AND RESPONSIBILITIES

FPN: 440553-1-54-01

This exhibit forms an integral part of the Agreement between the State of Florida, Department of Transportation and

City of Destin (the Recipient)

PROJECT LOCATION:

☐ The project is on the National Highway System.

☐ The project is on the State Highway System.

PROJECT LENGTH AND MILE POST LIMITS: .294

PROJECT DESCRIPTION: Destin Cross Town Connector Phase II from Benning Drive to Beach Drive Construction Phase 2 will include all services and materials necessary to construct the project as shown in the plans excluding the following:
• Underground stormwater retention system (ADS Chambers).
• Manhole structures S-304 and S-416
• Stormwater pipes between manholes S-304, S-416, and the ADS Chambers
• 8’ of stormwater pipe between S-503 and the ADS Chambers
Phase 2 will include constructing stormwater pipe connections to the manholes and pipe constructed in Phase 1. Fill material to be excavated for underground stormwater retention system in Phase 1 will remain onsite within the limits of the right of way for use by the Phase 2 contractor.

SPECIAL CONSIDERATIONS BY RECIPIENT:

• The Recipient is required to provide a copy of the design plans for the Department’s review and approval to coordinate permitting with the Department.
• Recipient will notify the Department prior to commencement of any right-of-way activities and must coordinate all reviews with the Department's identified Right-of-Way Agent if/when right-of-way is identified.
• The Recipient will invoice the Department, at the least, on a quarterly cycle. The submittal will include signed FDOT invoice template, signed Project Monitoring Status Report (PMSP), consultant invoice(s) with copy of cancelled check(s) and /or copy of electronic payment confirmation(s).

The Recipient shall commence the project’s activities subsequent to the execution of this Agreement and shall perform in accordance with the following schedule:

A) PD&E Study Completion: N/A
B) Design Completion: 100% plans provided to the Department
C) Right of Way Requirements: Identified and provided to the Department by- Certification document provided to Department
D) Right of Way Certification: Certification document to be provided to the Department
E) Construction Contract Letting: Phase I Under CST Phase II (TRIP) Estimated Fall 2025
F) Construction Completion: Estimated January 2027

If this schedule cannot be met, the Recipient will notify the Department in writing with a revised schedule or the project is subject to the withdrawal of funding.

SPECIAL CONSIDERATIONS BY DEPARTMENT:
* If applicable:
• Each phase of the process will be submitted into ERC for review by the Department at a minimum of 14 business days for receipt and response to any comments.

STATE-FUNDED GRANT AGREEMENT

EXHIBIT B
SCHEDULE OF FINANCIAL ASSISTANCE

RECIPIENT NAME & BILLING ADDRESS:	**FINANCIAL PROJECT NUMBER:**
City of Destin 4200 Indian Bayou Trail Destin, FLorida 32541	440553-1-54-01

PHASE OF WORK by Fiscal Year:		MAXIMUM PARTICIPATION (1) TOTAL PROJECT FUNDS	(2) LOCAL FUNDS	(3) STATE FUNDS	Indicate source of Local funds
Design- Phase 34 FY:	Maximum Department Participation (Insert Program Name)	$	$	$	☐ In-Kind ☐ Cash
FY:	Maximum Department Participation (Insert Program Name)	$	$	$	☐ In-Kind ☐ Cash
	Total Design Cost	$ 0.00 %	$ 0.00 %	$ 0.00 %	
Right-of-Way- Phase 44 FY:	Maximum Department Participation (Insert Program Name)	$	$	$	☐ In-Kind ☐ Cash
FY:	Maximum Department Participation (Insert Program Name)	$	$	$	☐ In-Kind ☐ Cash
	Total Right-of-Way Cost	$ 0.00 %	$ 0.00 %	$ 0.00 %	
Construction- Phase 54 FY: **2026**	Maximum Department Participation (TRIP)	$9,632,529.00	$7,632,529.00	$2,000,000.00	☐ In-Kind ☒ Cash
FY:	Maximum Department Participation (Insert Program Name)	$	$	$	☐ In-Kind ☐ Cash
	Total Construction Cost	$9,632,529.00 %	$7,632,529.00 79%	$2,000,000.00 21%	
Construction Engineering and Inspection - Phase 64 FY:	Maximum Department Participation (Insert Program Name)	$	$	$	☐ In-Kind ☐ Cash
FY:	Maximum Department Participation (Insert Program Name)	$	$	$	☐ In-Kind ☐ Cash
	Total Construction Engineering and Inspection Cost	$ 0.00 %	$ 0.00 %	$ 0.00 %	
(Phase :) FY:	Maximum Department Participation (Insert Program Name)	$	$	$	☐ In-Kind ☐ Cash
FY:	Maximum Department Participation (Insert Program Name)	$	$	$	☐ In-Kind ☐ Cash
	Total Cost	$ 0.00 %	$ 0.00 %	$ 0.00 %	
	TOTAL COST OF THE PROJECT	$9,632,529.00	$7,632,529.00	$2,000,000.00	

COST ANALYSIS CERTIFICATION AS REQUIRED BY SECTION 216.3475, FLORIDA STATUTES:
I certify that the cost for each line item budget category has been evaluated and determined to be allowable, reasonable, and necessary as required by Section 216.3475, F.S. Documentation is on file evidencing the methodology used and the conclusions reached.

Tanya Branton
District Grant Manager Name

DocuSigned by:
Tanya Sanders Branton 10/06/2025 | 4:34 PM EDT
E6267D5145F4E2...
Signature Date

EXHIBIT C

ENGINEER'S CERTIFICATION OF COMPLIANCE

Engineer's Certification of Compliance. The Recipient shall complete and submit the following Notice of Completion and, if applicable, Engineer's Certification of Compliance to the Department upon completion of the construction phase of the Project.

NOTICE OF COMPLETION

STATE-FUNDED GRANT AGREEMENT
Between
THE STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION
and City of Destin

PROJECT DESCRIPTION: Destin Cross Town Connector Phase II from Benning Drive to Beach Drive Construction

FPID#: 440553-1-54-01

In accordance with the Terms and Conditions of the State-Funded Grant Agreement, the undersigned provides notification that the work authorized by this Agreement is complete as of _____, 20__.

By: _____

Name: _____

Title: _____

ENGINEER'S CERTIFICATION OF COMPLIANCE

In accordance with the Terms and Conditions of the State-Funded Grant Agreement, the undersigned certifies that all work which originally required certification by a Professional Engineer has been completed in compliance with the Project construction plans and specifications. If any deviations have been made from the approved plans, a list of all deviations, along with an explanation that justifies the reason to accept each deviation, will be attached to this Certification. Also, with submittal of this certification the Recipient shall furnish the Department a set of "as-built" plans certified by the Engineer of Record/CEI.

By: _____, _____ P.E.

SEAL:

Name: _____

Date: _____

EXHIBIT D

RECIPIENT RESOLUTION

The Recipient's Resolution authorizing entry into this Agreement is attached and incorporated into this Agreement.

EXHIBIT F

CONTRACT PAYMENT REQUIREMENTS
Florida Department of Financial Services, Reference Guide for State Expenditures
Cost Reimbursement Contracts

Invoices for cost reimbursement contracts must be supported by an itemized listing of expenditures by category (salary, travel, expenses, etc.). Supporting documentation shall be submitted for each amount for which reimbursement is being claimed indicating that the item has been paid. Documentation for each amount for which reimbursement is being claimed must indicate that the item has been paid. Check numbers may be provided in lieu of copies of actual checks. Each piece of documentation should clearly reflect the dates of service. Only expenditures for categories in the approved agreement budget may be reimbursed. These expenditures must be allowable (pursuant to law) and directly related to the services being provided.

Listed below are types and examples of supporting documentation for cost reimbursement agreements:

Salaries: Timesheets that support the hours worked on the project or activity must be kept. A payroll register, or similar documentation should be maintained. The payroll register should show gross salary charges, fringe benefits, other deductions and net pay. If an individual for whom reimbursement is being claimed is paid by the hour, a document reflecting the hours worked times the rate of pay will be acceptable.

Fringe benefits: Fringe benefits should be supported by invoices showing the amount paid on behalf of the employee, e.g., insurance premiums paid. If the contract specifically states that fringe benefits will be based on a specified percentage rather than the actual cost of fringe benefits, then the calculation for the fringe benefits amount must be shown. Exception: Governmental entities are not required to provide check numbers or copies of checks for fringe benefits.

Travel: Reimbursement for travel must be in accordance with s. 112.061, F.S., which includes submission of the claim on the approved state travel voucher along with supporting receipts and invoices.

Other direct costs: Reimbursement will be made based on paid invoices/receipts and proof of payment processing (cancelled/processed checks and bank statements). If nonexpendable property is purchased using state funds, the contract should include a provision for the transfer of the property to the State when services are terminated. Documentation must be provided to show compliance with DMS Rule 60A-1.017, F.A.C., regarding the requirements for contracts which include services and that provide for the contractor to purchase tangible personal property as defined in s. 273.02, F.S., for subsequent transfer to the State.

Indirect costs: If the contract stipulates that indirect costs will be paid based on a specified rate, then the calculation should be shown. Indirect costs must be in the approved agreement budget and the entity must be able to demonstrate that the costs are not duplicated elsewhere as direct costs. All indirect cost rates must be evaluated for reasonableness and for allowability and must be allocated consistently.

Contracts between state agencies may submit alternative documentation to substantiate the reimbursement request, which may be in the form of FLAIR reports or other detailed reports.

The Florida Department of Financial Services, online Reference Guide for State Expenditures can be found at this web address https://www.myfloridacfo.com/docs-sf/accounting-and-auditing-libraries/state-agencies/reference-guide-for-state-expenditures.pdf.

EXHIBIT J

STATE FINANCIAL ASSISTANCE (FLORIDA SINGLE AUDIT ACT)

THE STATE RESOURCES AWARDED PURSUANT TO THIS AGREEMENT CONSIST OF THE FOLLOWING:

Awarding Agency: Florida Department of Transportation

State Project Title and CSFA Number:

- ☐ County Incentive Grant Program (CIGP), (CSFA 55.008)
- ☐ Small County Outreach Program (SCOP), (CSFA 55.009)
- ☐ Small County Road Assistance Program (SCRAP), (CSFA 55.016)
- ☒ Transportation Regional Incentive Program (TRIP), (CSFA 55.026)
- ☐ Insert Program Name, Insert CSFA Number

***Award Amount:** $2,000,000.00

*The state award amount may change with supplemental agreements

Specific project information for CSFA Number is provided at: https://apps.fldfs.com/fsaa/searchCatalog.aspx

COMPLIANCE REQUIREMENTS APPLICABLE TO STATE RESOURCES AWARDED PURSUANT TO THIS AGREEMENT:

State Project Compliance Requirements for CSFA Number are provided at: https://apps.fldfs.com/fsaa/searchCompliance.aspx

The State Projects Compliance Supplement is provided at: https://apps.fldfs.com/fsaa/compliance.aspx

To: TANYA.BRANTON@DOT.STATE.FL.US

FLORIDA DEPARTMENT OF TRANSPORTATION
FUNDS APPROVAL

G3G09

8/5/2025

CONTRACT INFORMATION

Contract:	G3G09
Contract Type:	GD - GRANT DISBURSEMENT (GRANT)
Method of Procurement:	G - GOVERMENTAL AGENCY (287.057,F.S.)
Vendor Name:	CITY OF DESTIN
Vendor ID:	F592480854001
Beginning Date of This Agreement:	08/04/2025
Ending Date of This Agreement:	01/31/2027
Contract Total/Budgetary Ceiling:	ct = $2,000,000.00
Description:	Destin Crosstown Connector Phase II from Benning Drive to Beach Drive

FUNDS APPROVAL INFORMATION

FUNDS APPROVED/REVIEWED FOR JASON ADANK, CPA, COMPTROLLER ON 8/5/2025

Action:	Original
Reviewed or Approved:	APPROVED
Organization Code:	55032010330
Expansion Option:	A7
Object Code:	751000
Amount:	$2,000,000.00
Financial Project:	44055315401
Work Activity (FCT):	215
CFDA:	
Fiscal Year:	2026
Budget Entity:	55150200
Category/Category Year:	088717/26
Amendment ID:	O001
Sequence:	00
User Assigned ID:	
Enc Line (6s)/Status:	0001/04

Total Amount: $2,000,000.00

RESOLUTION 25-22

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF DESTIN, FLORIDA, ACCEPTING AND ADOPTING THE STATE FUNDED GRANT AGREEMENT (FINANCIAL PROJECT NUMBER: 440553-1-54-01, CONTRACT NUMBER: G3G09) FOR THE CROSSTOWN CONNECTOR BETWEEN THE FLORIDA DEPARTMENT OF TRANSPORTATION AND THE CITY OF DESTIN PURSUANT TO THE TRANSPORTATION REGIONAL INCENTIVE PROGRAM ("TRIP") SET FORTH IN SECTION 339.2819 FLORIDA STATUTES; AUTHORIZING THE CITY MANAGER TO EXECUTE THE AGREEMENT FOR AND ON BEHALF OF THE CITY OF DESTIN; PROVIDING FOR CONFLICTING PROVISIONS, SEVERABILITY AND AN EFFECTIVE DATE;

Section 1. Authority.

The authority for the enactment of this resolution is Article I, Section 1.01 of the City Charter and Section 166.021, Florida Statutes.

Section 2. Findings of Fact.

WHEREAS, the City of Destin desires to authorize and approve of the State Funded Grant Agreement (specifically, for Financial Project Number 440553-1-54-01, Contract Number G3G09) for the Crosstown Connector between the Florida Department of Transportation and the City of Destin pursuant to the Transportation Regional Incentive Program ("TRIP") set forth in section 339.2819, Florida Statutes ("Agreement"); and

WHEREAS, the purpose of such Agreement is to provide for participation by the Florida Department of Transportation ("FDOT") in the Destin Cross Town Connector Phase II from Benning Drive to Beach Drive Construction, as further described in the Agreement, to provide FDOT financial assistance to the Recipient (City); state the terms and conditions upon which FDOT funds will be provided; and to set forth the manner in which the Project will be undertaken and completed; and

WHEREAS, FDOT requires the City Council pass a Resolution authorizing the execution of the attached Agreement prior to moving forward with design of the project; and

WHEREAS, the City of Destin City Council has determined this Resolution 25-22 serves the public health, safety and welfare.

Section 3. Recitals. The foregoing recitals are true and correct, and incorporated into this Resolution.

Section 4. Approval of State Funded Grant Agreement and Authorization to Execute.

NOW, THEREFORE, BE IT RESOLVED that the City of Destin, by and through the City Council, formally accepts and adopts the State Funded Grant Agreement (specifically, for Financial Project Number 440553-1-54-01, Contract Number G3G09) for the Crosstown Connector between the Florida Department of Transportation and the City of Destin pursuant to the Transportation Regional Incentive Program ("TRIP") set forth in section 339.2819, Florida Statutes.

BE IT FURTHER RESOLVED that the City Manager of the City of Destin is formally authorized to execute the Agreement for and on behalf of the City of Destin.

Section 5. Conflicting provisions. Any resolution, or part thereof, in conflict with this Resolution, or any part hereof, is hereby repealed to the extent of such conflict.

Section 6. Severability. If any section, phase, sentence, or portion of this Resolution, for any reason, held invalid or unconstitutional by any court of competent jurisdiction, such portion shall be deemed a separate, distinct, and independent provision, and such holding shall not affect the validity of the remaining portions thereof.

Section 7. Effective Date. This Resolution shall become effective immediately upon its adoption.

PASSED AND ADOPTED BY THE CITY OF DESTIN, FLORIDA THIS 20TH DAY OF OCTOBER, 2025.

_____
Dewey Destin, Mayor Pro Tem

ATTEST:

_____
Rey Bailey, City Clerk

The form and content of this Resolution
is hereby approved for legal sufficiency
for the City of Destin, only.

_____
Kimberly Romano Kopp, City Attorney

ITEM # 2025-1203

CITY OF DESTIN

AGENDA ITEM

COUNCIL MEETING DATE: October 20, 2025
TYPE OF AGENDA ITEM: City Manager Report
AGENDA OUTLINE NUMBER: 4.B.

TO: City Council

THRU: Larry Jones , City Manager
Kimberly Kopp, City Attorney

FROM: Rey Bailey, City Clerk

DATE: October 10,2025

SUBJECT: Florida Retirement System (FRS) - Motion to Rescind Previous Action by the Council

I. BACKGROUND:

7/21/2025: **Councilmember Bagby moved to allow city employees the option to transition from the current thrift savings plan into the Florida Retirement System (FRS) beginning FY26, starting October 1, 2025; seconded by Councilmember Trammell. Motion passed 6-0 (Clouncilmember Schmidt was absent from the meeting).**

8/18/2025: In order to proceed with allowing City Employees the option to join Social Security and FRS, staff initiated the FRS join process which requires implementation via ordinance. Staff presented first reading of proposed Ordinance 25-19-CC - Amending Chapter 2 - Administration of the Code of Ordinances relating to city membership in the Florida Retirement System (FRS); providing for membership in FRS for the benefit of City of Destin employees.

Councilmember Bagby moved to approve Ordinance 25-19-CC on first reading, seconded by Councilmember Trammell. The motion failed 2-3 (Council members Bagby and Trammell voted "yes"; Council members Schmidt, Hebert, and Geile voted "no"; Council members Braden and Destin were absent).

9/4/2025**: Councilmember Destin made a motion that employees be given authority to vote on whether they would like the Florida Retirement System (FRS) to be offered as an option for their retirement, thus allowing staff to make an informed choice rather than speculating about their preferences. Motion was seconded by Councilmember Trammell and passed 4-3 (Council members Destin, Bagby, Braden, and Trammell voted "yes"; Council member Geile, Hebert, and Schmidt voted "no").**

II. DISCUSSION: On September 4th, the City Council directed that employees be given the opportunity to vote on whether the Florida Retirement System (FRS) should be offered as a retirement option. To support an informed decision, staff were provided with a series of retirement education presentations covering:

- The current Thrift Savings Plan
- The potential FRS option
- Social Security

.

Presentation schedule:

- **Thrift Plan**: Two sessions (September 22 and September 23)
- **FRS**: Two sessions (September 23)
- **Social Security**: Two sessions (September 23)

- Following the presentations, a two-question survey was administered to employees.·
- Out of the City's 96 full-time employees, 83 participated in the survey.

On 9/24/2025, staff sent a survey to all employees. The survey contained two questions:

1) If the City of Destin were to offer participation in FRS and Social Security, would you choose to enroll?

67 employees stated they would enroll if given the option

16 employees stated they would not enroll

2) Even if you were to choose to stay in the Thrift Plan, do you believe that the City of Destin should have participation in the Florida Retirement System (FRS) and Social Security as an offering to its employees.

81 employees stated they do believe Social Security and FRS should be an option that's offered to City of Destin employees

2 employees stated they do not believe Social Security and FRS should be an option that's offered to City of Destin employees

On October 6, 2025, a motion was made by Councilmember Braden, seconded by Councilmember Destin, to place on the next city council meeting agenda a "Motion to Rescind" the council's previous action regarding Ordinance 25-19-CC, which authorizes the city to join the Florida Retirement System (FRS). The motion passed 6–1, with Councilmember Schmidt dissenting.

A. Link to Strategic Goals / Objectives: Offer livable wages & benefits to attract and maintain high caliber, qualified staff.

B. Effect on Budget (EOB):

PERSONNEL	FRS	ThriftPlan	$ variance	% variance
Wages	$ 7,828,971	$ 7,828,971	$ -	0%
FICA (medicare, social security)	594,234	146,021	448,214	307%
Retirement	1,232,851	970,971	261,880	27%
Insurance (health, dental, disability, workers comp, life...)	1,686,663	1,686,663	-	0%
TOTAL	$ 11,342,719	$ 10,632,625	$ 710,093	7%

C. Level of Service (LOS):

D. **Legislative Sponsor:**
E. **Business Impact Statement:**

III. CONCLUSION: If the council chooses to move forward with joining the Florida Retirement System, it will first need to rescind its previous action regarding Ordinance 25-19-CC. That ordinance, which proposed amending Chapter 2 of the City Code to allow City of Destin employees to participate in FRS, failed on first reading by a 2–3 vote. Council members Bagby and Trammell voted "**yes**", while Council members Schmidt, Hebert, and Geile voted "**no**". Council members Braden and Destin were absent for the vote.

Council Resolution 22-08 (attached) states that:

A council member who voted with the prevailing side of a previous action may request rescission by placing a "**Motion to Rescind**" on the agenda of a regular council meeting. If the "**Motion to Rescind**" is approved at that meeting, the council must, during the same meeting, either reconsider the original action or set a specific future date for its reconsideration.

IV. RECOMMENDED MOTION:

Council has discretion to take no action or to take the following possible steps:

I move to rescind the council's previous action regarding Ordinance 25-19-CC.

If the above motion passes, this may be followed by a second motion:
I move to direct staff to advertise Ordinance 25-19-CC for first reading.

Attachments:

1. Resolution 22-08 - Rules of Procedure for Council Meeting

RESOLUTION 22-08

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF DESTIN ADOPTING RULES OF PROCEDURE FOR COUNCIL MEETINGS; PROVIDING FOR AUTHORITY; GENERAL RULES; TYPES OF MEETINGS; PRESIDING OFFICER AND DUTIES; ORDER OF BUSINESS; ORDINANCES, RESOLUTIONS, AND OPINIONS; CITIZEN PRESENTATIONS; SUSPENSION AND AMENDMENT OF RULES; AND AN EFFECTIVE DATE.

WHEREAS, the City Council recognizes the need to amend and adopt rules of procedure for Council Meetings; and

WHEREAS, it is recognized that rules of procedure will establish consistent agendas and orderly meetings; and

WHEREAS, the Council last amended its rules of procedure through Resolution 21-17; and

WHEREAS, the City Council recognizes that the budget season and holiday season may impact the Council's ability to meet each calendar year; and

WHEREAS, to minimize disruptions to the regularly scheduled meetings and provide ample notice to the public of regularly scheduled meetings, the City Council desires to amend its Rules of Procedure to establish a regular meeting agenda schedule established in December of each calendar year; and

NOW THEREFORE BE IT RESOLVED that the City Council of the City of Destin does hereby adopt the following as Rules of Procedure for the City of Destin Council meetings:

(NOTE: Language in this resolution that is ~~struck through~~ is language proposed to be deleted, underlined language is language proposed to be added)

1. AUTHORITY:

1.1 Authority: The authority for this resolution is the City Charter and Sec. 286.0114, Florida Statutes.

1.2 Rule Power: The Charter of the City of Destin provides that the Council may determine its own rules of procedure for meetings. Limiting mandates are provided by general law.

2. RULES ESTABLISHED:

2.1 **Rules Established:** The following set of rules shall be in effect upon their adoption by the Council and until such time as they are amended, or new rules adopted in the manner provided by these rules.

3. GENERAL RULES:

3.1 **Meetings to be Public:** All meetings of the Council shall be open to the public, except for such meetings as are exempt by general law.

3.2 **Quorum:** A majority of the members of the Council, free of voting conflict, shall constitute a quorum and be necessary for the transaction of business. If a quorum is not present, those in attendance will be named and they shall adjourn to a later time.

3.3 **Compelling Attendance:** The Council may adjourn from time to time to compel the attendance of absent members.

3.4 **Minutes of Proceedings:** Minutes of the meetings of the Council shall be kept by the City Clerk, except for such meetings as are exempt by general law.

3.5 **Right of Floor:** Any Council member desiring to speak shall first be recognized by the Presiding Officer and shall confine his or her remarks to the one subject under consideration or to be considered.

3.6 **City Manager:** The City Manager or his or her designee is expected to attend all meetings of the Council and shall have the right to take part in all discussions of the Council.

3.7 **City Attorney:** The City Attorney or his or her designee is expected to attend all meetings of the Council and provide guidance and opinions, on questions of law and shall act as the Council's parliamentarian by advising the Presiding Officer regarding matters of procedure.

3.8 **City Clerk**: The City Clerk or his or her designee shall attend all meetings of the Council and shall keep the official minutes of proceedings and perform such other duties as may be requested by the City Manager or Council.

3.9 **Rules of Order:** *Roberts Rules of Order Revised* shall serve as a guide to the proceedings of the Council to the extent they are not in conflict with these rules.

3.10 **Motion to Reconsider:** An action of the council may be reconsidered only at the same meeting at which the action was taken. A motion to reconsider may be made only by a council member who voted on the prevailing side of the question and must be concurred in by a majority of those present at the

meeting. Adoption of a motion to reconsider shall rescind the action reconsidered.

3.11 Motion to Rescind: An action of the council taken at a previous meeting (the "previous action") may generally be rescinded at a subsequent meeting. Motions to Rescind shall be governed by the following process:

1. A Councilmember seeking rescission of a previous action shall place a Motion to Consider Rescission on the agenda of a regular Council meeting. If a majority of the full membership of the Council approves the Motion to Consider Rescission, the Motion to Rescind shall be placed on the agenda of the next regular Council meeting. If less than a majority of the full membership vote in favor of the Motion to Consider Rescission, no Motion to Rescind, the previous action shall be considered by the Council.

2. Approval of a Motion to Rescind requires the affirmative vote of a majority of the full membership of the Council.

3. If a Motion to Rescind is approved, the Council shall, at the same meeting, either consider the previous action or set a date certain for its consideration.

4. Notwithstanding anything stated above, a Motion to Rescind initiated by a Councilmember who voted on the losing side in connection with the previous action shall not be in order unless the Council determines:
   a. Subsequent information has become known that (i) would have been material to the Council's decision on the previous action and
   (ii) would have militated for a different result; or
   b. A rescission of the previous action is imperative to avoid a material cost, risk, harm, or other jeopardy to the city or its citizens, and the material cost, risk, harm, or other jeopardy could not have been known at the time of the Council's previous action.

5. For purposes of the Motion to Rescind, a Councilmember who was absent for a vote on the motion in connection with the previous action is deemed to have been on the prevailing side of the vote.

6. There may be actions of Council taken regarding which the Council is estopped from rescinding.

3.12 Action Savings: No action taken by the Council shall be deemed void or invalid because of the failure to adhere to Robert's Rules of Order or the

provisions of these rules of order and procedure, except as may otherwise be provided by general law.

4. TYPES OF MEETINGS:

4.1 Regular Meeting: The Council shall meet in the Council Chambers or another designated place within the City boundaries, for meetings. Regular Council Meetings are to commence at 6:00 p.m. unless otherwise specified. At a regularly scheduled meeting in December of each year, the City Council shall adopt a Resolution publishing the dates of its regular meetings for the next twelve months. This Resolution adopting the meeting schedule may be amended from time to time in the Council's discretion so long as it complies with the City's Charter and Florida law. Generally, regular meetings shall be held on the first and third Monday of each month except for National Holidays which fall on a Monday when the regular meetings shall be on the next Tuesday. However, the Council may adopt any regular meeting schedule for the next twelve months as it sees fit so long as it schedules at least one regular meeting each month in accordance with the City Charter. The Council shall specifically consider its meeting schedule in the months of July due to the intensive budget season, and the months of November, December, and January due to the numerous holidays which may interfere with Councilmembers' and the public's ability to attend meetings.

4.2 Special Meetings: Special Meetings may be held on the call of the mayor or any three (3) Councilmembers. The call for a Special meeting shall be filed with the City Clerk, except that an announcement of a special meeting during any regular meeting shall be sufficient for such special meeting unless otherwise provided by general law. When practical there shall be a twelve-hour notice to each Councilmember and local news media.

4.3 Adjourned Meetings: Any meeting of the Council may be adjourned to a later date and time.

4.4 Workshop Meetings: The Council may meet informally in workshop meetings (open to the public), at the call of the mayor or of any three (3) members of the Council. No ordinances, resolutions or other actions may be adopted at such meeting provided that the Council may direct staff to take actions that do not entail the expenditure of City funds.

4.5 Emergency Meetings: Emergency meetings may be held on the call of the mayor or a majority of the Councilmembers whenever there is a public emergency affecting life, health, property or the public peace, and whenever practicable, upon no less than one (1) hours' notice to each Councilmember and local news media.

4.6 Telephonic Participation: If a quorum of the City Council is physically present, other members of the City Council may participate, but not vote, by phone provided they can be heard on the record and they can hear the other members of the City Council and the participating public.

5. **PRESIDING OFFICER AND DUTIES:**

5.1 **Presiding Officer:** The Mayor, if present, shall preside at all meetings of the Council. In the absence of the Mayor, the Mayor Pro Tem shall preside. In the absence of both the Mayor and the Mayor Pro Tem, the meeting shall be called to order by the City Clerk for the purpose of electing a temporary presiding officer.

5.2 **Call to Order:** The meetings of the Council shall be called to order by the Presiding Officer.

5.3 **Preservation of Order:** The Presiding Officer shall preserve order and decorum; prevent attacks on personalities or the impugning of members' or motives, and confine members in debate to the question under discussion.

5.4 **Points of Order:** The Presiding Officer shall determine all points of order, subject to the right of any member to appeal to the Council. If any appeal is taken, the question shall be, "Shall the decision of the presiding officer be sustained?" A majority of the Council sitting and eligible to vote is required to reverse the ruling of the Presiding Officer.

5.5 **Voting:** Voting by registering votes on the electronic voting board meets the Charter requirement for roll call vote.

6. **ORDER OF BUSINESS:**

6.1 **Order of Business:** The general rule as to the order of business in regular meetings shall be as follows:

CALL TO ORDER
INVOCATION
PLEDGE OF ALLEGIANCE

AGENDA APPROVAL (*Matters not specifically listed on the agenda may be added and acted upon with a super-majority vote of the Council members present and eligible to vote on the matter).*

1. **PROCLAMATIONS/RECOGNITIONS/SPECIAL PRESENTATIONS/ANNOUNCEMENTS** (*No public comments)*

(*Note: Individual speakers will be limited to 3 minutes. At the discretion of the mayor, this 3-minute allowance may be adjusted depending on the level of business coming before the City Council*).

2. **PUBLIC COMMENTS** (*Section 5 – Public Hearings have separate public comments time for these items)*

3. **CONSENT AGENDA**

4. **CITY MANAGER REPORTS**

5. **PUBLIC HEARINGS**

6. **COMMENTS/PRESENTATIONS FROM MAYOR, COUNCIL, LAND USE ATTORNEY AND CITY ATTORNEY**

7. **PUBLIC COMMENTS (*Comments from the public on any matters considered at the meeting, or on any matters not on the agenda*)**

ADJOURNMENT

Agenda: The order of business at each regular meeting shall be as contained in the agenda. The agenda shall be a listing by topic of subjects to be considered by council. The agenda shall be published by 12:00 noon on Thursday, prior to the regular meeting.

6.2 Opening Invocations: United States Supreme Court and Eleventh Circuit have consistently upheld the practice of delivering religious invocations before deliberative public bodies occurring prior to policymaking. See *Town of Greece v. Galloway*, 134 S. Ct. 1811 (2014); *Marsh v. Chambers*, 463 U.S. 783 (1983); *Atheists of Florida, Inc. v. City of Lakeland*, 732 F.3d 577 (11th Cir. 2013); The City recognizes that our City and Nation is comprised of individuals with a diversity of viewpoints, including but not limited to, faiths, religions, beliefs, and non-beliefs. Accordingly, the City will make reasonable efforts to invite, locate, and welcome individuals with a diversity of viewpoints to offer the opening invocation for the benefit of the City Council and the City's policies shall not be intended, implemented, or construed in any manner to affiliate the City Council with or express any preference for or against any faith, non-faith, or religious denomination. In recognition of the diversity of faiths, ideas, viewpoints, and various beliefs as referenced herein, it shall be the policy of the City that sectarian prayer may be allowed that is solemn and respectful in tone that invites the City Council members to reflect upon shared ideals and common ends before embarking on the business of governing. However, invocation speakers are hereby requested to refrain from exploiting the invocation period with proselytizing or advancing any one belief, view, or religion; disparaging any other faith or belief; denigrating nonbelievers or religious minorities; threatening damnation; or preaching conversion; and

6.2.1. Intent. It shall be the policy of the City Council that the procedures stated in this rule concerning opening invocation shall govern all official meetings of the City Council and that the members of the City Council and City staff shall adhere to these rules. These policies and procedures are not intended, shall not be implemented, and shall not be construed in any way to affiliate the City Council or the City with, nor express a preference for or against any faith, belief, opinion, religion, or denomination. Rather, these policies and procedures are intended to acknowledge and express the City Council respect for the diversity of religious denominations and faiths represented and practiced among the citizens of the City.

6.2.2. Timing. After the Call to Order of all official meetings of the City Council an

Opening Invocation as described herein shall occur. The opening invocation will occur and be completed during the opening, ceremonial portion of the City Council meeting and shall in no event occur, or be construed to occur, during the policymaking or legislative portions of the City Council meeting.

6.2.3. Speaker Selection.The opening invocation will be performed by a local volunteer selected in accordance with these rules. The local volunteer selected for leading the opening invocation shall be selected from a wide pool of local clergy as specified below, and he/she shall in no event receive compensation from the City for his/her participation or services. To ensure that such person is selected from among a wide pool of local clergy, on a rotating basis, the invocation speaker shall be selected according to the following procedure:

1) The City Manager or his/her designee shall compile and maintain a database of the religious congregations with an established presence within the jurisdictional limits of the City of Destin and Okaloosa County.

2) The Congregation List shall be compiled by referencing the listings for "churches," "congregations," or other similar religious assemblies located within the jurisdictional limits of the City and Okaloosa County in the annual Yellow Pages telephone book(s) published for the City and Okaloosa County, research from the Internet, and consultation with local chambers of commerce. All religious congregations with an established presence within the jurisdictional limits of the City and Okaloosa County are eligible to be, and shall be, included in the Congregation List. Any such congregation, entity, organization, or individual within the jurisdictional limits of the City and Okaloosa County not otherwise identified for participating may request inclusion on the Congregation List by written communication directed to the City Manager that references the opening invocation. This policy is intended to be and shall be applied in a way that is all-inclusive of every diverse religious congregation within the jurisdictional limits of the City and Okaloosa County. The Congregation List is compiled and used for purposes of logistics, efficiency, and equal opportunity for all religious leaders within the jurisdictional limits of the City and Okaloosa County to choose whether to respond to the City Council's Invitation and participate. The City Manager or his/her designee may not inquire into the faith, denomination, or other religious belief of the congregation before adding it to the Congregation List.

3) The Congregations List may also include the name and contact information of any chaplain who serves the Destin Fire District or Okaloosa County Sheriff's Department.

4) The Congregations List shall be updated, by reasonable efforts of the City Manager or his/her designee, on or about the month of July of each calendar year.

5) Within thirty (30) days of the effective date of this policy, and on or about May 1 of each calendar year thereafter, the City Manager or his/her designee shall mail an invitation addressed to the religious leader, chaplain, minister, rabbi or similar, or other contact person of each congregation listed on the Congregations List. The invitation will comport with substantially the following form:

Dear Sir or Madam:

The Destin City Council makes it a policy to invite members of the clergy and other religious leaders having an established presence within the jurisdictional limits of the City of Destin and Okaloosa County to voluntarily offer an invocation before the beginning of its meetings for the benefit and blessing of the City Council. As the leader of one of the religious congregations with an established presence within the jurisdictional limits of the City and Okaloosa County, you are invited to offer this important service at an upcoming meeting of the City Council.

If you are willing to assist the City Council in this regard, please send a written reply at your earliest convenience to the City Manager at the address included on this letterhead. Invocation speakers are scheduled on a first-come, first-serve basis. The dates of the City Council's scheduled meetings for the upcoming year are enclosed. If you have a preference among the date, please state that request in your written reply.

This opportunity is voluntary, and you are free to offer the invocation according to the dictates of your own conscience. To maintain a spirit of respect and ecumenism, the City Council respectfully requests that the invocation opportunity not be exploited as an effort to convert others to the particular faith of the invocation speaker, nor to disparage any faith or belief different than that of the invocation speak or otherwise threaten damnation or denigrate nonbelievers. Statements reflecting ideals relating to peace and security for the nation; safety of our armed forces, police, firefighters and emergency service personnel; wisdom for the lawmakers; and justice for the people are encouraged.

On behalf of the City Council of the City of Destin, I thank you in advance for considering this invitation.

Regards,
City Manager or his/her designee

6) As the invitation letter shall state, the respondents to the invitation shall be scheduled on a first-come, first serve basis to deliver the invocation. All reasonable efforts shall be made to ensure that a variety of invocation speakers are scheduled for City Council meetings. Notwithstanding the preceding, no invocation speaker shall be scheduled to offer an invocation at consecutive meetings of the City Council, or at more than three (3) City Council meetings in any calendar year.

7) No member of the City Council, City employee or staff shall engage in any prior inquiry, review, or involvement in, the content of any invocation to be offered by an invocation speaker. However, consistent with U.S. Supreme Court precedent, invocation speakers are hereby advised that the invocation should not denigrate nonbelievers or religious minorities; threaten damnation; or preach conversion. Statements reflecting ideals relating to peace and security for the nation; safety of our armed forces, police, firefighters and emergency service personnel; wisdom for the lawmakers; and justice for the people are encouraged.

8) The City Manager may add the name and affiliated organization of the selected invocation speaker for a particular meeting to the City Council agenda next to the "Invocation" item.

9) In recognition of the transitional process relating to the policies set forth herein, including but not limited to the completion of the Congregation List and mailing of the invitations, the City Council may invite religious leaders, chaplains, ministers, rabbis or similar of congregations located within the jurisdictional limits of the City and Okaloosa County to conduct the opening invocation until such time as the Congregation List is compiled.

10) In the event a meeting of the City Council does not have a volunteer opening invocation speaker for that meeting, the City Council reserves the right to invite religious leaders, chaplains, ministers, rabbis or similar of congregations located within the jurisdictional limits of the city and Okaloosa County to conduct the opening invocation for that meeting.

6.2.4. Conduct of Opening Invocation. No member of the City Council, City employee or staff, or any other person in attendance at the meeting shall be required to participate in any opening invocation that is offered. An opportunity to exit the City Council Chambers and return upon completion of the opening invocation is afforded to those who do not wish to participate or witness the opening invocation. Persons in attendance at the City Council meeting are invited to stand during the opening invocation and Pledge of Allegiance. However, such invitation shall not be construed as a demand, order, or any other type of command. Such invitation constitutes a general invitation that a person in attendance may stand if he/she wishes to do so for such observances.

6.2.5. Agenda Disclaimer. The following statement shall be placed at the bottom of City Council meeting agendas:

Any invocation that is offered before the official start of the City Council meeting shall be the voluntary offering of a private person, to and for the benefit of the city Council. The views or beliefs expressed by the invocation speaker have not been previously reviewed or approved by the City Council or the city staff, and the City is not allowed by law to endorse the religious beliefs or views of this, or any other speaker. Persons in attendance at the City Council meeting are invited to stand during the opening invocation and Pledge of Allegiance. However, such invitation shall not be construed as a demand, order, or any other type of command. No person in attendance at the meeting shall be required to participate in any opening invocation that is offered. A person may exit the City Council Chambers and return upon completion of the opening invocation if a person does not wish to participate in or witness the opening

6.3. Presentation by Members of Council: The Agenda shall provide times when the Mayor, Councilmember, City Manager and City Attorney may bring before the Council any business that they feel should be deliberated upon by the Council. These matters need not be specifically listed on the Agenda but may be acted upon only upon an extraordinary vote of the Council members present and eligible to vote on the matter. Except in instances where extraordinary conditions are necessitated, the Mayor and Council shall notify the City Manager of forthcoming agenda topics in keeping with the above deadlines and strive to supply backup materials for timely distribution with the agenda packets.

6.4 Consent Agenda: The Consent Agenda may be used to handle routine matters on the agenda expeditiously. There is no separate discussion of these items unless a Councilmember or a member of the public requests an item be removed for consideration in its normal sequence on the Agenda. The approval of the Consent Agenda is usually handled in one motion from the Council table, "I move that the Consent Agenda, (item numbers may be included) be approved; or if items are to be removed, "for good cause" or "discussion", a typical motion might be, "I move that we approve the Consent Agenda items__through _____with the exception of item_____."

6.5. Requests for Ordinances, Resolutions or Opinions: Any Council member may request the City Manager or City Attorney to prepare or have prepared proposed ordinances or resolutions. Any Council member or the mayor may request a legal opinion of the City Attorney.

7. CITIZENS PRESENTATIONS:

7.1 Presentation by Public on Proposition before the Council: The agenda shall provide times when the public is given a reasonable opportunity to be heard on a proposition before the City Council. The opportunity to be heard may not occur at the same meeting in which the Council takes official action on the proposition, provided when the opportunity has been extended within sixty (60) days before the meeting at which the Council takes the official action. Public opportunity hereunder does not extend to:

(a) An official act that must be taken to deal with an emergency situation affecting the public health, welfare, or safety, if compliance with the requirements would cause an unreasonable delay in the ability of the board or Council to act.

(b) An official act involving no more than a ministerial act, including, but not limited to, approval of minutes and ceremonial proclamations.

(c) A meeting that is exempt from Sec. 286.011 Florida Statutes

(d) A meeting during which the board or Council is acting in a quasi-judicial capacity. This paragraph does not affect the right of a person to be heard as otherwise provided by law.

7.2 **Addressing the Council -- Scheduled Presentations:** Any person desiring to address the Council by oral communication on any subject not already on the Council meeting agenda shall first secure the permission of the Presiding Officer and will be recognized under "Scheduled Presentations from the Public." Only those persons who have completed a speaker's form and who have notified the City Clerk by 12:00 noon of the Wednesday immediately preceding the regular meeting will have their name placed on the agenda and be recognized under the heading "Scheduled Presentations from the Public."

7.3 **Addressing the Council -- Public Opportunity on Council Propositions:** Any person desiring to address the Council by oral communication shall secure the permission of the Presiding Officer and will be recognized under Public Comments and Public Hearing portions of the agenda.

7.4 **Addressing the Council – Public Opportunity on Public Hearings:** Any person desiring to address the Council regarding Public Hearings by oral communication shall secure the permission of the Presiding Officer and will be recognized under "Public Hearings" where that item occurs on the regularly scheduled Agenda.

7.5 **Manner of Addressing the Council -- Time Limit:** Each person addressing the Council shall approach the microphone, shall give his or her name and address and the organization or group they represent if any, in an audible tone of voice for the record and, unless further time is granted by the Council, shall limit their address to three minutes. All remarks shall pertain to City business and shall be addressed to the Council as a body, and not to any member thereof. No person, other than members of the Council or Mayor, and the persons having the floor, shall be permitted to enter into any discussion, either directly or through the members of the Council. No questions shall be asked the Councilmembers or staff, except through the Presiding Officer.

7.6 Personal and Slanderous Remarks: Any person making personal, impertinent or slanderous remarks, or who shall become boisterous or use offensive language, while addressing the Council, may be requested to leave the meeting. No reference by name to any individual present or absent, including Councilmembers and staff, shall be used in a negative manner by any person addressing the Council. All participants and speakers shall refrain from belittling or insulting remarks or making personal attacks.

7.7 Reading of Protests: Interested persons, or their authorized representatives, may address the Council for the reading of protests, petitions, or communications relating to any matter over which the Council has control when the item is under consideration by the Council.

7.8 Referral of Citizens' Complaints: While in session, the Mayor or Councilmembers, individually, or the City Council collectively, through motion, may refer citizen's complaints to staff or an appropriate City Committee.

7.9 Written Communications: Interested parties, or their authorized representatives, may address the Council by written communication on any matter of business. However, in order to preserve the public record as well as comply with Florida's Public Records Law, an exact copy of said written communication must be provided to the City Clerk.

7.10 Presentations by Representatives of Groups or Factions: At meetings, in which four (4) or more individuals of a group or faction wish to be heard, a representative of a group or faction may address the Council rather than all members of the group or faction and in such instances shall limit their address to twenty (20) minutes.

7.11 Challenges to Staff and Advisory Body Recommendations: Anyone who is challenging a staff and advisory body recommendation must submit a request in writing to be placed on the agenda by 12:00 noon on the Wednesday before the upcoming regular meeting. The request must contain a written memorandum setting forth in detail the specific rulings or findings to which they object and stating any Florida Statutes, case law, or sections of the Land Development Code, Comprehensive Plan or ordinances of the City of Destin on which they are basing their objection. Council may not consider a challenge to administrative decisions requiring Board of Adjustment review or decisions of City Boards over which the Council lacks review jurisdiction.

8. SUSPENSION AND AMENDMENT OF THESE RULES:

8.1 Suspension of Rules: Any provision of these rules not governed by the City Charter or City Code may be temporarily suspended by a vote of a majority of all the Councilmembers.

8.2 Amendment of Rules: These rules may be amended, or new rules adopted, by a majority vote of all members of the Council, provided that

the proposed amendments or new rules shall have been introduced into the record at a prior Council meeting.

9. REPEAL OF CONFLICTING RESOLUTIONS:

9.1 Repeal of Conflicting Resolutions: Any resolution or policy in conflict with this Resolution shall be considered repealed to the extent of the conflict.

10. EFFECTIVE DATE: This resolution shall be effective upon its adoption by the City Council.

SO DONE THIS THE 6TH _ DAY OF JUNE 2022

By: _____
Gary Jarvis, Mayor

CITY OF WESTON SEAL Florida

ATTEST: _____
Rey Bailey, City Clerk

ITEM # 2025-1206

CITY OF DESTIN

AGENDA ITEM

COUNCIL MEETING DATE: October 20, 2025
TYPE OF AGENDA ITEM: Council Discussion Item
AGENDA OUTLINE NUMBER: 4.C.

TO: City Council

THRU: David Prichard, Community Development Director
Steve O'Connor, Deputy Community Development Director

FROM: Andy Peters, Director of Information Technology

DATE: 10/14/2025

SUBJECT: Short Term Rental Software RFP Results Update

I. BACKGROUND:

This item is presented for information only. Staff welcomes Council's feedback and ideas.

On August 27, 2025, the City issued a Request for Proposals (RFP) for a Short-Term Rental Compliance Solution Provider. The RFP sought a full-service firm to track and manage the City's short-term rental program, collect fees, and remit them to the City. A key requirement was the ability to identify ("scrape") unregistered short-term rentals from online platforms so the City could follow up on compliance.

II. DISCUSSION:

The City received five proposals that met the submission requirements. The Bid Committee convened on September 25, 2025, to review them.

Of the five, only one proposal offered the complete set of services outlined in the RFP. However, the associated fees exceeded $1 million annually. As a result, all five proposals were determined to be either non-responsive to the City's needs or not in the City's best interest.

Anticipating this as a potential outcome, as well as the need to register the Condominium STRs for the remainder of the 2025 Season, staff worked with the City's existing Permitting and Licensing Software provider, MyGovernmentOnline (MGO), to develop an in-house compliance solution. This approach leverages the City's current system and avoids the expense and disruption of transitioning to a new software vendor.

The in-house solution has already been deployed to the public. While it will increase staff workload—particularly with respect to identifying non-compliant short-term rentals through online monitoring—it offers a cost-effective and flexible path forward. Staff also notes that "scraping" services may be procured separately on an as-needed basis from firms that specialize in such work, without bundling them into a full-service package.

A. Link to Strategic Goals / Objectives:
B. Effect on Budget (EOB):
C. Level of Service (LOS):
D. Legislative Sponsor:
E. Business Impact Statement:

III. CONCLUSION: This report is provided for informational purposes only. Staff welcomes Council's comments, ideas, and guidance on the City's approach to short-term rental compliance.

IV. RECOMMENDED MOTION:

Attachments:

None

ITEM # 2025-1207

CITY OF DESTIN

AGENDA ITEM

COUNCIL MEETING DATE: October 20, 2025
TYPE OF AGENDA ITEM: City Manager Report
AGENDA OUTLINE NUMBER: 4.D.

TO: City Council

THRU: Kimberly Kopp, City Attorney
Larry Jones , City Manager

FROM: Robert Tomasek, City Engineer

DATE: 10/15/2025

SUBJECT: Threadgill Parking Update

I. BACKGROUND: Council had asked staff for cost of development of parking along Calhoun Ave near Hickory St.

II. DISCUSSION: Council directed the City Manager to engage one of the city's continuing contract engineers to evaluate additional parking opportunities along Hickory Street and Calhoun Avenue. Although the cost of placing the surface elements were known at the last meeting, the cost and scope of environmental elements were not. The price estimate for the parking along Calhoun Ave, for just the surface work, is approx. $200k. This does include drainage work or mucking/extensive dirt work. It also did not evaluate the large culvert running underneath Calhoun Ave. If needing replacement, its size would cause the price to increase. The environmental costs for a phase 1 is approx. $5,000. The phase 1 takes about 4 to 6 weeks to complete. The phase 1, would trigger a phase 2 environmental assessment. The phase 2 assessment can cost between $20k and $50k. This phase takes an additional 4 to 6 weeks. The phase 2 assessment would tell us the likelihood of doing any remediations and all the remediations that would be required. The estimated cost for the remediations/mitigations is a minimum of $200k to $300k, if allowed at all. There would also be the cost of the engineer to design all the mitigation issues and normal design estimated at $50k. The permitting process can take a significant amount of time. NWFWMD time frame is approx. 18 months. USACE estimated time frame is 36 months.

Cost to know if/what we can do: $25k to $55k
Cost to design: $50k
Remediation/mitigation: $200k to $300k
Construction cost: $200k

Cost/Space: $15,800 to $20,170

Time: 3 years to begin construction.

There is discussion on improving the back parking area where the old T-ball field and bathroom are located with the use of reclaimed asphalt millings from our replacement program. This would involve removing some existing material and replacing it with the millings. Currently, most of the operation would be done with city forces and equipment. Some concrete work may need to be done and wheel stop would need to be purchased.

A. Link to Strategic Goals / Objectives:
B. Effect on Budget (EOB):
C. Level of Service (LOS):
D. Legislative Sponsor:
E. Business Impact Statement:

III. CONCLUSION: Staff is seeking direction from the City Council as to any additional next steps.

IV. RECOMMENDED MOTION: Council may take no action, in its discretion. If Council desires to move forward, the recommended motion would be:

I move to enter into contract with a continuing services engineer to complete phase 1 and phase 2 environmental assessments.

Attachments:

None

QUARTERLY
VOLUNTEER COMMITTEES/BOARDS
ATTENDANCE REPORT
(JULY - SEPTEMBER 2025)

BOARD OF ADJUSTMENT

SCHEDULED MEETINGS	MEMBERS ABSENT	NOMINATING COUNCIL MEMBER
July 2, 2025 ***(Meeting cancelled. No applications to review)***		
August 6, 2025 ***(Meeting cancelled. No applications to review)***		
September 3, 2025 ***(Meeting cancelled. No applications to review)***		

HARBOR AND WATERWAYS BOARD

SCHEDULED MEETINGS	MEMBERS ABSENT	NOMINATING COUNCIL MEMBER
July 24, 2025 **(*Meeting cancelled. No items to review)***		
August 28, 2025	***Jim Green***	***Braden***
September 25, 2025 ***(Meeting cancelled for lack of a quorum)***	***Unable to attend:*** ***John Stephens*** ***Guy Tadlock*** ***Bill McKissick*** ***Jerod Hayden*** ***Ryan Holloway***	***Trammell*** ***Geile*** ***Hebert*** ***Destin*** ***Schmidt***

HARBOR COMMUNITY REDEVELOPMENT AGENCY (CRA) ADVISORY COMMITTEE

SCHEDULED MEETINGS	MEMBERS ABSENT	NOMINATING COUNCIL MEMBER
July 9, 2025	***All Present***	
August 13, 2025	***Jay Howard*** ***Casey Jones***	***Trammell*** ***Geile***
September 10, 2025	***Jay Howard*** ***Jim Green*** ***Casey Jones***	***Trammell*** ***Hebert*** ***Geile***

LOCAL PLANNING AGENCY

SCHEDULED MEETINGS	MEMBERS ABSENT	NOMINATING COUNCIL MEMBER
July 17, 2025	***All Present***	
September 4, 2025 ***(Meeting cancelled for lack of a quorum)***	***(Will be unable to attend)*** ***Jim Wood*** ***Todd Buhr*** ***Jay Purut*** ***Marcie Bell*** ***Breana Uptigrove***	***Braden*** ***Bagby*** ***Geile*** ***Hebert*** ***Schmidt***
September 18, 2025 ***(Meeting cancelled for lack of a quorum)***	***(Will be unable to attend)*** ***Jim Wood*** ***Todd Buhr*** ***Jay Purut*** ***Marcie Bell*** ***Breana Uptigrove***	***Braden*** ***Bagby*** ***Geile*** ***Hebert*** ***Schmidt***

PARKS AND RECREATION COMMITTEE

SCHEDULED MEETINGS	MEMBERS ABSENT	NOMINATING COUNCIL MEMBER
August 7, 2025	***All Present***	
August 26, 2025	***Jan McGraw***	***Geile***
September 23, 2025	***Aubrey Santucci*** ***Matthew Sweetser***	***Schmidt*** ***Braden***

PUBLIC WORKS/PUBLIC SAFETY COMMITTEE

SCHEDULED MEETINGS	MEMBERS ABSENT	NOMINATING COUNCIL MEMBER
July 8, 2025	***Jim Wood*** ***Curtis Smith***	***Destin Schmidt***
August 12, 2025	***Andrea Ansley***	***Bagby***
September 9, 2025	***All Present***	

TOWN CENTER COMMUNITY REDEVELOPMENT AGENCY (CRA) ADVISORY COMMITTEE

SCHEDULED MEETINGS	MEMBERS ABSENT	NOMINATING COUNCIL MEMBER
July 16, 2025	***Preston Green*** ***Margie Avery***	***Hebert*** ***Braden***
August 20, 2025	***Corlene Ziegler*** ***Kyle Davis***	***Trammell*** ***Destin***
September 17, 2025 ***(Meeting cancelled for lack of a quorum***	***(Will be unable to attend)*** ***Margie Avery*** ***Irene Bethea*** ***Preston Green***	***Braden*** ***Geile*** ***Hebert***

ITEM # 2025-1142

CITY OF DESTIN

AGENDA ITEM

COUNCIL MEETING DATE: October 20, 2025
TYPE OF AGENDA ITEM: City Manager Report
AGENDA OUTLINE NUMBER: 4.F.

TO: City Council

THRU:

FROM:

DATE:

SUBJECT: Announcements

I. BACKGROUND:

II. DISCUSSION:

A. Link to Strategic Goals / Objectives:
B. Effect on Budget (EOB):
C. Level of Service (LOS):
D. Legislative Sponsor:
E. Business Impact Statement:

III. CONCLUSION:

IV. RECOMMENDED MOTION:

Attachments:

None

ITEM # 2025-1209

CITY OF DESTIN – COMMUNITY DEVELOPMENT

AGENDA ITEM

MEETING DATE: October 20, 2025
BOARD/COMMITTEE: City Council
TYPE OF AGENDA ITEM: Public Hearing
OUTLINE NUMBER: 5.A.

TO: City Council

THRU: Larry Jones , City Manager
Kimberly Kopp, City Attorney

FROM: David Prichard, Community Development Director
Daniel Butler, Principal Planner

DATE: October 14, 2025

SUBJECT: Destin Elementary School Addition – A Major Development Order (DEV-001522-2025)

I. BACKGROUND:

Dustin Merritt of Jacobs/Titan Total Program Management, on behalf of the Okaloosa County School Board, is requesting approval for a Major Development Order consisting of 75,000 square feet of classroom space, offices, and a teachers' lounge. The proposed project is located at 633 Kelly Street (Parcel IDs: 00-2S-22-0000-0001-00C0 & 00-2S-22-0000-0071-0000) and encompasses approximately 29.22 acres.

II. DISCUSSION:

The proposed project includes the construction of two additional buildings adding 75,000 square feet of classrooms, offices, and a teachers' lounge. This project will also include associated stormwater improvements, additional parking, and additional ingress to and egress from school grounds to include access from Benning Drive.

It should be noted that pursuant to Florida State Statute 1013.33(7), the local governing body is authorized to review development plans for public school facilities ***solely*** to determine site consistency with the comprehensive plan's land use policies, specifically to identify sites in which public schools are identified as allowable uses. No other aspects of the development plan are subject to review by the local governing body under this statute. While a comprehensive technical review was completed by the Technical Review Committee, not all Land Development Code aspects normally reviewed for a major development were included. Per state statute, review emphasis was placed on land use, health, safety, welfare, and environmental

concerns.

COMPREHENSIVE PLAN/LAND DEVELOPMENT CODE
The subject property is within the **Village** planning area. The property has a Future Land Use Map Designation of **Institutional (INST)** and a Zoning Designation of **Institutional (INST)**. The proposed use is consistent with these land use regulations. The project, as required by the Comprehensive Plan and the Land Development Code, has undergone a compatibility review and meets the minimum requirements.

LAND USE
Elementary and secondary schools (NAIC #6111) are permitted use within the **INST** Future Land Use Map designation and within the **INST** Zoning District.

EXISTING USES
Elementary and secondary schools (NAIC #6111) – Existing ±113,012 square feet of elementary school educational facilities.

PROPOSED USES
Elementary and secondary schools (NAIC #6111) -Proposed additional ±75,000 square feet of additional classrooms and offices.

INTENSITY
Maximum allowed:.50 FAR
Provided:0.14 FAR

HEIGHT
Maximum allowed:35’ / 3 stories
Provided:27’ 4” / 2 stories

SETBACKS
Front required (north):None
Front provided (north): ±26’

Side minimum required (east): None
Side provided (east): ±65’

Side minimum required (west): None
Side provided (west): ±562”

Rear minimum required (south):None
Rear provided (south):±356’ 6”

Open Space
Minimum required:25%
Provided:80%

Platting
There is no platting associated with this application.

CONCURRENCY MANAGEMENT
Concurrency requirements have not been evaluated for this order (*Florida State Statute 1013.33*).

AIRPORT PROTECTION
As proposed, this project is not affected by nor affects the Destin Executive Airport.

NOTE: Per Okaloosa County Airports, all contractors that will require a crane to hang any material will need to file notice with the Federal Aviation Administration's (FAA) Obstruction Evaluation Group (OEG) and obtain an Aeronautical Study Number (ASN). File Notice by submitting FAA Form 7460-1 at https://oeaaa.faa.gov/oeaaa/external/portal.jspb. The general contractor can obtain the ASN for the entirety of the project and all subcontractors can fall under their ASN.

Transportation ANALYSIS
The proposed project meets the de minimis criteria outlined in ***Comprehensive Plan Policy 12-4.1.4(C)(5)***. This project is supporting existing students in the City of Destin and will not increase demand on existing infrastructure.

RIGHT-OF-WAY DEDICATION
The project does not include any right-of-way dedication.

INGRESS/EGRESS
Vehicular access to the property is provided by the Benning Drive, Beach Drive, and Kelly Street public rights-of-way (ROWs).

PARKING:
Elementary and secondary schools) – 2 spaces per 1 classroom is required

Required vehicle parking spaces for development area:2 spaces x 34 Classrooms = 68
Provided vehicle parking spaces for development area:89 (includes 6 handicapped spaces)

STORMWATER:
The City Manager's Stormwater designee approved the stormwater plan on June 3, 2025

REFUSE COLLECTION:
All non-construction related dumpsters, trashcans, and recycling bins shall be placed in solid waste collection areas or inside a building.

WHITE SANDS ZONE
The proposed project is not located within a White Sand Zone. No additional action is required.

Landscaping
Landscaping requirements have not been evaluated for this order (*Florida State Statute 1013.33(7)*).

SIGNS

No signs were reviewed for permitting or compliance with the Development Order application. All proposed signs must be permitted through a sign permit and shall comply with the sign code section of the Destin Land Development Code in effect at the time a sign application is submitted.

IMPACT FEES:
This project is exempt from project impact fees per ***LDC Section 19.03.11.A.5 & 19.04.11.A.5***.

OTHER FEES
NONE

PUBLIC COMMENTS
NONE

A. Link to Strategic Goals / Objectives:
III. Economic development and revitalization
B. Effect on Budget (EOB): There is no anticipated impact on the budget.
C. Level of Service (LOS): There is no anticipated impact on the LOS.
D. Legislative Sponsor:
E. Business Impact Statement:

III. CONCLUSION:
Dustin Merritt of Jacobs/Titan Total Program Management, on behalf of the Okaloosa County School Board, is requesting approval for a Major Development Order, consisting of an additional 75,000 square feet of classrooms, offices, and a teachers' lounge. This project will include stormwater improvements, additional parking, and additional ingress and egress from school grounds to include access from Benning Drive. The subject project is located at 633 Kelly Street (Parcel IDs: 00-2S-22-0000-0001-00C0 & 00-2S-22-0000-0071-0000). The subject parcels are approximately 29.22 acres in total. The proposed development and use meet the standards and requirements of the City's Comprehensive Plan and the Land Development Code as reviewed in accordance with *Florida State Statute 1013.33(7).*

IV. RECOMMENDED MOTION:
I move that the City Council approve the Destin Elementary School Addition, a Major Development Order, as presented.

ALTERNATIVE MOTION
I move that the City Council approve/approve with conditions/approve with modifications/deny the Destin Elementary School Addition, a Major Development Order, as presented.

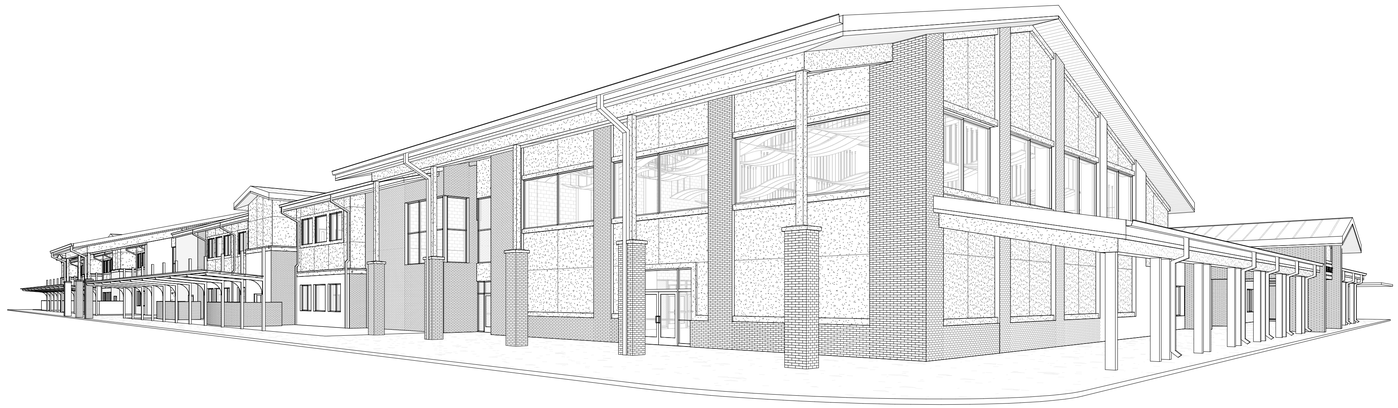
Attachments:

1. Approved Civil Plans
2. Drainage Report
3. Adjacent Property Notification
4. Sign Posting Affidavit
5. Sign Posting Picture 1 of 2
6. Sign Posting Picture 2 of 2

7. DWU Approval Letter
8. Okaloosa Gas District Review
9. DRAFT DO-25-20_ Destin Elementary School Addition

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
DESTIN, FLORIDA

OKALOOSA COUNTY SCHOOL DISTRICT
OKALOOSA COUNTY, FLORIDA



OKALOOSA COUNTY SCHOOL DISTRICT

STATE OF FLORIDA ROBERT ALLEN HEFFERNAN NO. 9262 REGISTERED ARCHITECT 10/10/2024

Robert Heffernan Digitally signed by Robert Heffernan DN: C=US, E=Heff@hmma.com, O=Heffernan Holland Morgan Architecture, CN=Robert Heffernan Date: 2024.10.10 14:44:29-05'00'

Digitally signed by paul a battle Date: 2024.10.10 14:26:37 -05'00'

DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Donald J McCarthy

STATE OF FLORIDA JAN B. SIMPSON 100003599 10 OCTOBER 2024 LICENSED INTERIOR DESIGNER

JAN SIMPSON

Digitally signed by JAN SIMPSON DN: O="Simpson Design Group, Inc.", CN=JAN SIMPSON, E=sdginteriors@gmail.com Reason: I am the author of this document Location: Date: 2024.10.10 09:31:03-05'00' Foxit PDF Editor Version: 12.0.0

ELIJAH KIMMIG LICENSE No. 90730 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/2024

Digitally signed by Elijah Kimmig Contact Info: ekimmig@petersoneng.com Date: 2024.10.10 11:56:47-05'00'

GREGORY DAMON PETERSON LICENSE No. 34892 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Gregory Peterson, PE DN: cn=Gregory Peterson, PE, o=Peterson Engineering Inc., email=peterson@petersoneng.com, c=US Reason: I am the author of this document Date: 2024.10.10 11:30:24 -05'00'

DAVID M. BAGWELL LICENSE No. 59261 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/24

David M Bagwell

Digitally signed by Alan D. Holt Date: 2024.10.11 09:50:55 -05'00'

Consultants:

Architectural	*Civil*	*Structural*	*Interiors*	*Plumbing / Mechanical / Fire Protection*	*Electrical / Telecomm*
Heffernan Holland Morgan Architecture, P.A. 312 South Alcaniz Street Pensacola, Florida 32502 Florida Lic. No. AAC001942 Phone: 850-433-2799 POC: Robert Heffernan	Rebol-Battle & Associates, LLC 2301 N 9th Ave Pensacola, Florida 32503 Florida Lic. No. 53126 Phone: 850-438-0400 POC: Paul Battle	McCarthy Engineering, Inc. 216 E. Government Street Pensacola, Florida 32502 Florida Lic. No. 29241 Phone: 850-475-1268 POC: Jeff McCarthy	Simpson Design Group, Inc. 1902 E. Lakeview Ave. Pensacola, Florida 32503 Florida Lic. No. 0003599 Phone: 850-723-4220 POC: Jan Simpson	Peterson Engineering Inc. 75 S F Street Pensacola, Florida 32502 Corporate Registry No. 3600 Phone: 850-434-0513 POC: Greg Peterson / Elijah Kimmig	Bagwell Engineering 216 E. Government Street Pensacola, Florida 32502 Florida Lic. No. 30167 Phone: 850-462-8040 POC: David Bagwell

Project No.: 83X98735

Issue: 100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

Date: 10 October 2024

Drawing No.:

G-001

Jacobs | TITAN TECHNOLOGIES

4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY · SCHOOL DISTRICT ·

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

Donald J McCarthy

Project No.: 83X98735

Drawing Title:
INDEX OF DRAWINGS

Date: 10 October 2024

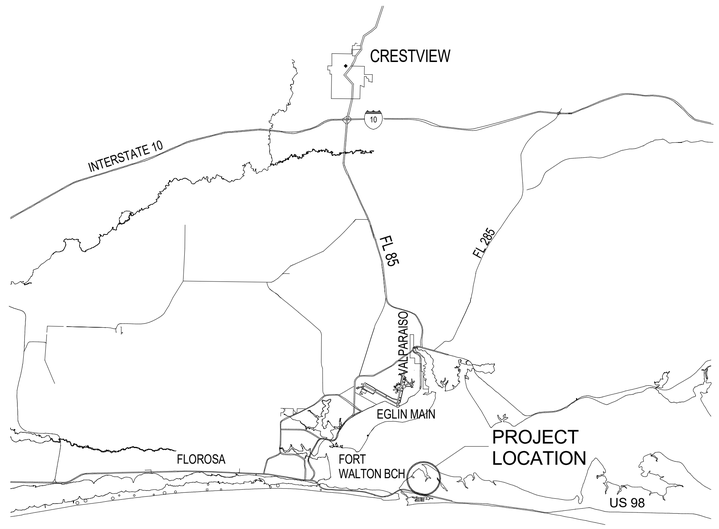
Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: G-002

FLORIDA PRODUCT APPROVAL

NO.	DESCRIPTION
FL# 8787.2 / 13599.8	STOREFRONT FRAMING (BASIS OF DESIGN: KAWNEER 501) / (EFCO 526)
FL#	STANDING SEAM METAL ROOFING (BASIS OF DESIGN: ___)
FL#	HOLLOW METAL DOORS (BASIS OF DESIGN: ___)
NOA# 20-0909.05	LOUVERS (BASIS OF DESIGN: RUSKIN EME625D)
FL#	EXTERIOR INSULATING FINISH SYSTEM (BASIS OF DESIGN: ___)

VICINITY MAP



SCHOOL CAMPUS MAP



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Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

Project No.: 83X98735

Drawing Title:
VICINITY AND SCHOOL CAMPUS MAP

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: G-003

LEGEND

- EXISTING ASPHALT
- EXISTING CONCRETE
- EXISTING GRAVEL
- EXISTING DIRT
- DEMOLITION
- BOUNDARY LINE
- EASEMENT LINE
- LOT LINE
- RIGHT-OF-WAY LINE
- SS — SANITARY SEWER LINE
- W — WATER LINE
- OHU — OVERHEAD UTILITIES
- BE — BURIED ELECTRIC LINE
- 100 — EXISTING CONTOUR
- STRAW BALE
- SF — SILT FENCE
- GUY ANCHOR
- UTILITY POLE
- WOOD LIGHT POLE
- CONCRETE LIGHT POLE
- TELEPHONE BOX
- GAS VALVE
- MAILBOX
- SIGN
- UTILITY VAULT
- ELECTRICAL PANEL
- ELECTRICAL BOX
- ELECTRICAL METER
- BENCHMARK
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- WATER RECLAMATION VALVE
- IRRIGATION VALVE
- BACKFLOW PREVENTER
- WELL PUMP
- AREA DRAIN/YARD INLET
- CLEANOUT
- SEWER MANHOLE
- STORMWATER MANHOLE
- UNKNOWN MANHOLE

N / W / E / S

HORIZONTAL SCALE

50 0 25 50 100 200

(IN FEET)
1 INCH = 50 FT.

REMOVE FENCE TO LIMITS SHOWN
REMOVE SIDEWALK
REMOVE BUILDING AND ALL ASSOCIATED UTILITIES
EXISTING TO BE RELOCATED. COORDINATE WITH OWNER
INSTALL SILT FENCE, SEE DETAILS
REMOVE NO PARKING SIGN
REMOVE & RELOCATE UTILITY POLES
REMOVE SIDEWALK
REMOVE PLAYGROUND EQUIPMENT
SAW-CUT & REMOVE CONCRETE SIDEWALK
REMOVE LIGHT POLE
NEW BUILDING BY OTHERS SHOWN FOR CLARITY
REMOVE UTILITY POLE
REMOVE ELECTRICAL METER
REMOVE UTILITY POLE
REMOVE COVERED WALKWAY & REPLACE WALKWAY TO PORTABLES AT END OF CONSTRUCTION
REMOVE ELECTRICAL BOX
REMOVE TABLES
REMOVE BALL FIELD
REMOVE UTILITY POLE
REMOVE DUGOUT AND ALL ASSOCIATED UTILITIES. REMOVE WATER LINES & DRINKING FOUNTAINS. CAP WATER LINES.
REMOVE ALL LIGHTING & UTILITY POLES ASSOCIATED WITH BASEBALL FIELD
REMOVE PLAYGROUND EQUIPMENT
SAW-CUT & REMOVE CONCRETE SIDEWALK
REMOVE SIDEWALK
REMOVE SIDEWALK TO LIMITS SHOWN
REMOVE GRAVEL
SIDEWALKS TO REMAIN
REMOVE FENCE TO LIMITS SHOWN
REMOVE ASPHALT BASKETBALL COURT
REMOVE WATER LINES & DRINKING FOUNTAINS. CAP WATER LINES.
BUILDINGS TO REMAIN
REMOVE TREES TYPICAL
BEACH DRIVE (66' PUBLIC RIGHT-OF-WAY)
REMOVE FENCE TO LIMITS SHOWN
REMOVE TRASH CAN
REMOVE DIRT DRIVE
REMOVE FENCE TO LIMITS SHOWN
EXISTING 10" REUSE WATER LINE TO BE RELOCATED. SEE SHEET C401
EXISTING OVERHEAD POWER TO BE REMOVED BY PROVIDER
NEW ASPHALT DRIVEWAY SHOWN FOR CLARITY
EXISTING UTILITY POLE TO BE REMOVED BY PROVIDER
REMOVE METAL SHED & CONCRETE FOUNDATION
EXISTING DOMESTIC WATER LINE TO BE RELOCATED. SEE SHEET C401
INSTALL SILT FENCE. LIMITS OF CLEARING & GRUBBING SEE DETAILS
EXISTING UTILITY POLE TO BE REMOVED BY PROVIDER
EXISTING OVERHEAD POWER TO BE REMOVED BY PROVIDER
REMOVE CONCRETE & COVERING AND ASSOCIATED UTILITIES
POND LIMITS SHOWN FOR CLARITY. AREA SHALL BE CLEARED & GRUBBED.
INSTALL SILT FENCE SEE DETAILS
POND LIMITS SHOWN FOR CLARITY. AREA SHALL BE CLEARED & GRUBBED.
BENNING DRIVE (100' PUBLIC RIGHT-OF-WAY)
SAW-CUT AND REMOVE CONCRETE SIDEWALK TO LIMITS SHOWN
REMOVE TREES WITHIN LIMITS OF PROPOSED DRIVEWAY
NEW ASPHALT DRIVEWAY SHOWN FOR CLARITY

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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
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OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

David M Bagwell
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DN: C=US, E=david@bagwellengineering.com, O=Bagwell Engineering, CN=David M Bagwell
Reason: I am the author of this document
Date: 2024.10.10 07:00:55-05'00'

Project No.: 83X98735

Drawing Title:
EXISTING SITE, DEMOLITION & EROSION CONTROL PLAN

Date: 10 OCTOBER 2024

Designed By: JRR
Drawn By: CBD
Checked By: RAB

Drawing No.: C-100

GENERAL NOTES FOR SOIL EROSION AND SEDIMENT CONTROL:

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.

3. PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER GRADING. MULCH TO BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.

4. ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, SECTIONS 104, 570, 981, 982, 983, 985, & 987.

*5. A BITUMINOUS CONCRETE BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE BITUMINOUS CONCRETE BASE SHALL BE INSTALLED WITHIN 15 DAYS OF THE PRELIMINARY GRADING.

*6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A THICKNESS OF TWO (2) TO FOUR (4) INCHES MIXED WITH THE TOP TWO (2) INCHES OF SOIL, ACCORDING TO STATE STANDARDS.

*7. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E. SLOPES GREATER THAN 3:1).

*8. A CRUSHED LIMEROCK, VEHICLE WHEEL-CLEANING BLANKET SHALL BE INSTALLED AT THE CONTRACTOR'S STAGING YARD AND/OR STOCKPILE AREAS TO PREVENT OFF-SITE TRACKING OF SEDIMENT BY CONSTRUCTION VEHICLES ONTO PUBLIC ROADS. BLANKET SHALL BE 15FT. X 50FT. X 6IN. (MINIMUM), CRUSHED LIMEROCK 2 1/2 INCHES IN DIAMETER. SAID BLANKET SHALL BE UNDERLAIN WITH A FDOT CLASS 3 SYNTHETIC FILTER FABRIC AND MAINTAINED IN GOOD ORDER.

9. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.

*10. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.

11. UNFILTERED DEWATERING IS NOT PERMITTED. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER.

12. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATION COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL.

13. ALL SOIL WASHED, DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHTS-OF-WAY WILL BE REMOVED IMMEDIATELY.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.

15. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE NUMBER 2 (ABOVE).

16. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.

17. ALL SEDIMENTATION STRUCTURES SHALL BE INSPECTED AND MAINTAINED REGULARLY.

18. ALL CATCH BASIN INLETS SHALL BE PROTECTED WITH HAY BALES AS SHOWN ON DETAIL.

19. THE CONTRACTOR SHALL PREPARE A PLAN FOR THE PROPER DEWATERING AND DOWNSTREAM SILTATION PROTECTION OF EACH STREAM CROSSING PRIOR TO EXCAVATING THE STREAM BED. PLAN SHALL BE FORWARDED TO THE ENGINEER FOR APPROVAL. THE ENGINEER SHALL BE NOTIFIED FOR INSPECTION PRIOR TO EACH STREAM CROSSING CONSTRUCTION.

20. ANY AREAS USED FOR THE CONTRACTOR'S STAGING, INCLUDING BUT NOT LIMITED TO, TEMPORARY STORAGE OF STOCKPILED MATERIALS (E.G. CRUSHED STONE, QUARRY PROCESS STONE, SELECT FILL, EXCAVATED MATERIALS, ETC.), SHALL BE ENTIRELY PROTECTED BY A SILT FENCE ALONG THE LOW ELEVATION SIDE TO CONTROL SEDIMENT RUNOFF.

* WHERE APPLICABLE

TEMPORARY SEEDING DETAILS:

SEED BED PREPARATION:

SOIL TO BE THOROUGHLY PULVERIZED BY DISK-HARROWING AND BE LOOSE AND REASONABLY SMOOTH. APPLY FERTILIZER AT A RATE OF 260 LBS/ACRE OF 16-16-16 OR EQUIVALENT, APPLY DOLOMITIC LIMESTONE AT A RATE OF 800 TO 1000 LBS./ACRE TO PROVIDE A SOIL pH OF 5.5 TO 6.5, LIME & FERTILIZER TO BE WORKED INTO THE TOPSOIL TO A DEPTH OF 4". ADD SANDY LOAM TOPSOIL TO A MINIMUM OF TWO (2) INCHES WHERE REQUIRED.

SEED MIXTURE

CONSISTING OF ANNUAL RYE (LOLIUM MULTIFLORUM) AT A RATE OF 174 LBS/ACRE.

PERMANENT SEEDING DETAILS:

SEED BED PREPARATION:

SOIL TO BE THOROUGHLY PULVERIZED BY DISK-HARROWING AND BE LOOSE AND REASONABLY SMOOTH. APPLY FERTILIZER AT A RATE OF 260 LBS/ACRE OF 16-16-16 OR EQUIVALENT, APPLY DOLOMITIC LIMESTONE AT A RATE OF 800 TO 1000 LBS./ACRE TO PROVIDE A SOIL pH OF 5.5 TO 6.5, LIME & FERTILIZER TO BE WORKED INTO THE TOPSOIL TO A DEPTH OF 4". ADD SANDY LOAM TOPSOIL TO A MINIMUM OF TWO (2) INCHES WHERE REQUIRED.

SEED MIXTURE CONSISTING OF	RATE	PURITY	GERMINATION
ARGENTINE BAHIA	260 LBS/AC.	95%	80%
PENSACOLA BAHIA	260 LBS/AC.	95%	40%(MIN.)-80%(TOTAL)

SODDING:

SOD SHALL BE WELL ROOT MATTED CENTIPEDE OR BAHIA GRASS COMMERCIALLY CUT TO A MINIMUM DIMENSION OF 12" x 24" A MAXIMUM OF 72 HOURS PRIOR TO PLACEMENT. SOD SHALL BE LIVE, FRESH AND UNINJURED, REASONABLY FREE OF WEEDS AND OTHER GRASSES, WITH A HEAVY SOIL MAT ADHERING TO THE ROOT SYSTEM. SOD SHALL BE GROWN, CUT, AND SUPPLIED BY A STATE CERTIFIED GROWER.

TRAFFIC CONTROL STANDARDS:

1. CONSTRUCTION TRAFFIC SHALL BE RESTRICTED TO ONSITE ACCESS BY MEANS SO DESIGNATED BY THE ENGINEER, POLICE/SHERIFF DEPARTMENT, COUNTY HIGHWAY DEPARTMENT, AND/OR THE FLORIDA DEPARTMENT OF TRANSPORTATION.
2. TRAFFIC DURING WET WEATHER SHALL BE MINIMIZED AND APPROPRIATE ROADWAY AND SITE CLEAN-UP SHALL BE PROVIDED BY THE CONTRACTOR AS SOON AS WEATHER CONDITIONS PERMIT.

TREE PROTECTION:

1. DAMAGED TRUNKS OR EXPOSED ROOTS WILL BE PAINTED IMMEDIATELY WITH A GOOD GRADE OF "TREE PAINT".

2. TREE LIMB REMOVAL, WHERE NECESSARY, WILL BE DONE FLUSH TO TRUNK OR MAIN BRANCH AND THAT AREA PAINTED IMMEDIATELY WITH A GOOD GRADE OF TREE PAINT.

DUST CONTROL:

1. ALL AREAS OF CLEARING AND EMBANKMENT AS WELL AS CONSTRUCTION HAUL ROADS SHALL BE TREATED AND MAINTAINED IN SUCH A MANNER AS TO MINIMIZE ANY DUST GENERATION.

2. DISTURBED AREAS SHALL BE MAINTAINED IN A ROUGH GRADED CONDITION AND TEMPORARILY SEEDED AND/OR MULCHED UNTIL PROPER WEATHER CONDITIONS EXIST FOR THE ESTABLISHMENT OF PERMANENT VEGETATION COVER.

3. IN EVENT OF EMERGENCY CONDITIONS, TILLAGE WILL BE SATISFACTORY FREE BEFORE SOIL BLOWING STARTS.

4. CALCIUM CHLORIDE MAY BE APPLIED TO UNPAVED ROADWAY AREAS, ONLY, SUBJECT TO THE ENGINEER'S APPROVAL AND CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS, SECTION 104, LATEST EDITION.

PROPOSED SEQUENCE OF CONSTRUCTION:

1. THE INSTALLATION OF ALL SEDIMENT AND EROSION CONTROL DEVICES THAT CAN BE PLACED PRIOR TO ANY MAJOR SOIL DISTURBANCES.

2. CLEAR AND REMOVE ALL EXISTING VEGETATION IN THOSE AREAS WHERE NECESSARY. ALL REMAINING VEGETATION IS TO BE PROPERLY PROTECTED AND IS TO REMAIN IN ITS NATURAL STATE. TOPSOIL IN AREAS TO BE DISTURBED IS TO BE STRIPPED TO A MINIMUM DEPTH OF SIX (6) INCHES AND STOCKPILED SEPARATELY FROM FROM OTHER EXCAVATED SOIL(S)

3. THE IMMEDIATE INSTALLATION OF ALL REMAINING SEDIMENT AND EROSION CONTROL DEVICES.

4. PERFORM ALL DEMOLITION WORK.

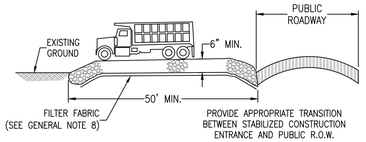
5. CONSTRUCT ALL UNDERGROUND UTILITIES AND STORM DRAIN SYSTEMS.

6. CONSTRUCT ROADS (SUBGRADE, CURB & GUTTER, BASE, PAVEMENT, SIDEWALKS AND LANDSCAPING).

7. COMPLETE STORMWATER PONDS.

8. UPON THE COMPLETION OF THE CONSTRUCTION ACTIVITIES, PROVIDE RESTORATION, FINE GRADE REMAINDER OF SITE, RESPREAD STOCKPILED TOPSOIL AND STABILIZE WITH PERMANENT VEGETATIVE COVER AND LANDSCAPING.

9. THE REMOVAL OF APPROPRIATE TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES.



STABILIZED CONSTRUCTION ENTRANCE DETAIL

N.T.S.



NOTE:
ALL PROTECTED TREES AS SHOWN ON THE PLANS TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION. THE CONTRACTOR SHALL INSTALL ORANGE CONSTRUCTION FENCING AT THE DRIP LINE OF EACH PROTECTED TREE BEFORE WORKING IN THE VICINITY OF THE TREE.

TREE BARRICADE DETAIL

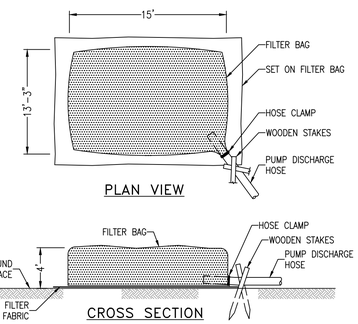
N.T.S.

DESCRIPTION:
FILTER BAGS WILL BE USED AS AN EFFECTIVE FILTER MEDIUM TO CONTAIN SAND, SILT AND FINES WHEN TRENCH DEWATERING. THE WETLAND FILTER BAG CONTAINS THESE MATERIALS WHILE ALLOWING THE WATER TO FLOW THROUGH THE FABRIC.

INSTALLATION:
WETLAND FILTER BAGS MAY REPLACE HAY BALE CORRALS DURING TRENCH DEWATERING, AT THE DISCRETION OF THE ENGINEER INSPECTOR. TO INSURE PROPER INSTALLATION, FILTER BAGS WILL BE PLACED ON RELATIVELY FLAT TERRAIN FREE OF BRUSH AND STUMPS TO AVOID RUPTURES AND PUNCTURES. PROPER INSTALLATION REQUIRES CUTTING A SMALL HOLE IN THE CORNER OF THE BAG, INSERTING THE PUMP DISCHARGE HOSE, AND THEN SECURING THE DISCHARGE HOSE TO THE BAG WITH A HOSE CLAMP. FILTER BAGS WILL BE PLACED AS FAR AWAY FROM FLOWING STREAMS AND WETLANDS AS POSSIBLE.

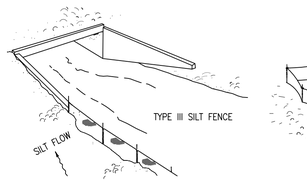
MAINTENANCE:
PRIOR TO REMOVING A BAG FROM THE HOSE, THE BAG WILL BE TIED OFF BELOW THE END OF THE HOSE ALLOWING THE BAG TO DRAIN. DRAINAGE WILL NOT BE ALLOWED THROUGH THE INLET HOLE. TO AVOID RUPTURE, THE BAGS WILL BE ATTENDED AND PUMPING RATES MONITORED. ONCE THE BAG IS INFLATED TO A HEIGHT OF 4 FEET, PUMPING WILL STOP TO AVOID RUPTURE. FILTER BAGS USED DURING CONSTRUCTION WILL BE BUNDLED AND REMOVED FOR PROPER DISPOSAL.

SPECIFICATION:
FILTER BAGS ARE CONSTRUCTED OF NON-WOVEN GEOTEXTILE FABRIC. A MAXIMUM OF ONE SIX INCH DISCHARGE HOSE WILL BE ALLOWED PER FILTER BAG. BAG CAPACITY WILL BE EXCEEDED BEYOND 2,000 GALLONS PER MINUTE. TYPICAL BAG DIMENSIONS ARE 15 FEET BY 13.25 FEET. TO HELP PREVENT PUNCTURES, GEOTEXTILE FABRIC WILL BE PLACED BENEATH THE FILTER BAG WHEN USED IN WOODED LOCATIONS. UNATTENDED FILTER BAGS WILL BE ENCIRCLED WITH A HAY BALE OR SILT FENCE CORRAL. HOSE CLAMPS WILL BE USED TO SECURE THE DISCHARGE HOSE, WIRE OR STRING WILL NOT BE USED.



FILTER BAG DETAIL FOR TRENCH DEWATERING OPERATIONS

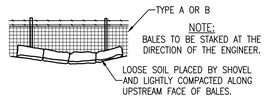
N.T.S.



SILT FENCE APPLICATIONS

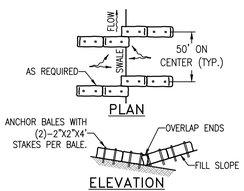
N.T.S.

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.



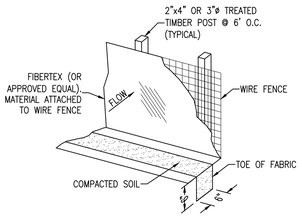
STRAW BALES BACKED BY FENCE

N.T.S.



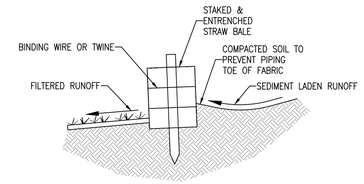
BARRIERS FOR FILL SLOPES

N.T.S.



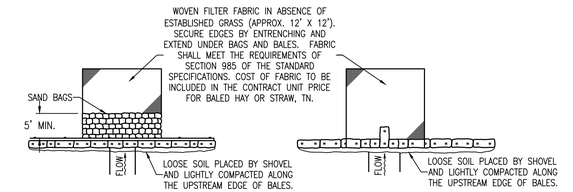
SILT FENCE DETAIL

N.T.S.



STRAW BALE DETAIL

N.T.S.

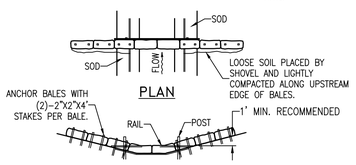


APPLICATION AND SPACING: THE USE OF TYPES I & II BALE BARRIERS SHOULD BE LIMITED TO THE CONDITIONS OUTLINED IN CHART I, SHEET 1 OF 3, INDEX NO. 102

TYPE II TYPE I

BARRIER FOR UNPAVED DITCH

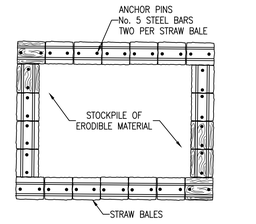
N.T.S.



SPACING:
BALE BARRIERS FOR PAVED DITCHES SHOULD BE SPACED IN ACCORDANCE WITH CHART I, SHEET 1 OF 3, INDEX NO. 102

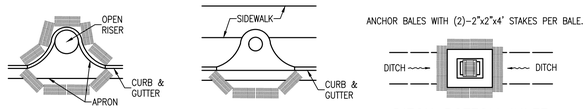
BARRIER FOR PAVED DITCH

N.T.S.



MATERIAL STOCKPILE DETAIL

N.T.S.



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

N.T.S.

Jacobs | TITAN TECHNOLOGIES

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Pensacola, Florida 32503
Telephone 850.438.0400 Fax 850.438.0448
EB 00009657 LB7916

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

David M Bagwell

Digitally signed by David M Bagwell
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Reason: I am the author of this document
Date: 2024.10.10 07:00:55-05'00'

Project No.: 83X98735

Drawing Title:
EROSION CONTROL DETAILS

Date: 10 OCTOBER 2024

Designed By: JRR
Drawn By: CBD
Checked By: RAB

Drawing No.: C-101

HORIZONTAL SCALE

50 0 25 50 100 200

(IN FEET)
1 INCH = 50 FT.

LEGEND

- EXISTING ASPHALT
- EXISTING CONCRETE
- EXISTING GRAVEL
- EXISTING DIRT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- WATER
- RIPRAP

SEE SHEET C201

SEE SHEET C202

PROPOSED BUILDING

BUILDING 22
ONE STORY BRICK BUILDING

BUILDING 21
ONE STORY BRICK BUILDING

BUILDING 20
ONE STORY BRICK BUILDING

BUILDING 19
ONE STORY BRICK BUILDING (CAFETERIA)

BUILDING 18
ONE STORY BRICK BUILDING

BUILDING 17
ONE STORY BRICK BUILDING

PROPOSED BASKETBALL COURT

BUILDING PAD SHALL BE UNDERCUT AND BACK FILLED PER THE GEOTECHNICAL REPORT

PROPOSED SCHOOL

PROPOSED ASPHALT PARKING

PROPOSED ASPHALT DRIVEWAY

PROPOSED ASPHALT PARKING

PROPOSED ASPHALT DRIVEWAY

PROPOSED RETENTION POND A

PROPOSED RETENTION POND B

BEACH DRIVE
(66' PUBLIC RIGHT-OF-WAY)

BENNING DRIVE
(100' PUBLIC RIGHT-OF-WAY)

Addition of 1 Swing Barrier Gate at Entrance

Jacobs | TITAN TECHNOLOGIES

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Revision:

Date:	By:	Description:
11/22/24	RBA	ADD-002 SHEET REISSUED

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

Digitally signed by paul a battle
Date: 2024.12.02 14:36:50 -06'00'

Project No.: 83X98735

Drawing Title:
OVERALL SITE LAYOUT

Date: 03 SEPTEMBER 2024

Designed By: JRR
Drawn By: CBD
Checked By: RAB

Drawing No.: C-200 2

N
W E
S

HORIZONTAL SCALE

30 0 15 30 60 120

(IN FEET)
1 INCH = 30 FT.

LEGEND

- EXISTING ASPHALT
- EXISTING CONCRETE
- EXISTING GRAVEL
- EXISTING DIRT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- WATER
- RIPRAP

CONSTRUCT CONCRETE SIDEWALK. SEE DETAILS

CONSTRUCT MODIFIED TYPE 'F' CONCRETE CURB & GUTTER. SEE DETAILS

7.3'

4.4'

R36'

INSTALL WHITE THERMOPLASTIC DIRECTIONAL ARROWS. (TYP)

ELECTRIC PANEL

ONE STORY WOOD AND BLOCK BUILDING

ONE STORY BLOCK BUILDING

ONE STORY BLOCK BUILDING

METAL CONTAINER

R21'

5'

19'

18' TYP

57'

5.6'

25'

4.9'

INSTALL 24" WHITE THERMOPLASTIC STOP BAR & STOP SIGN ASSEMBLY SEE DETAILS

R33.5'

R19'

R4'

R14'

18'

18' TYP

34.2'

38.5'

34'

399.4'

24'

2.7'

916'

R74'

CONSTRUCT MODIFIED TYPE 'F' CONCRETE CURB & GUTTER. SEE DETAILS

INSTALL WHITE THERMOPLASTIC DIRECTIONAL ARROWS. (TYP)

R48'

CONSTRUCT 24' WIDE ASPHALT DRIVE SEE DETAILS

CONSTRUCT STORMWATER POND SEE SHEET C300 FOR DETAILS

76'

WOODED

280.1'

24'

280.9'

SEE SHEET C201

SEE SHEET C202

WOODED

EOP

BOC

EOP

25.6'

48'

CONSTRUCT STORMWATER POND SEE SHEET C300 FOR DETAILS

BENNING DRIVE
(100' PUBLIC RIGHT-OF-WAY)

INSTALL 24" WHITE THERMOPLASTIC STOP BAR, 12" WHITE THERMOPLASTIC CROSSING STRIPE & STOP SIGN ASSEMBLY SEE DETAILS

R35'

CONSTRUCT 12" CONCRETE RIBBON CURB

CONSTRUCT CONCRETE SIDEWALK. SEE DETAILS

R23'

192.4'

5'

CONSTRUCT 3' CURB TRANSITIONS. SEE DETAILS

24'

CONSTRUCT MODIFIED TYPE 'F' CONCRETE CURB & GUTTER. SEE DETAILS

R49'

192.4'

5'

R35'

INSTALL 6" DOUBLE YELLOW THERMOPLASTIC STRIPE

CONSTRUCT CONCRETE SIDEWALK. SEE DETAILS

CONSTRUCT 24' WIDE ASPHALT DRIVE SEE DETAILS

Jacobs | TITAN TECHNOLOGIES

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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

David M Bagwell

Digitally signed by David M Bagwell
DN: C=US, E=dbagwell@engineering.com, O=Bagwell Engineering, CN=David M Bagwell
Reason: I am the author of this document
Date: 2024.10.10 07:00:55-05'00'

Project No.: 83X98735

Drawing Title:

ENLARGED SITE LAYOUT & DIMENSION PLAN

Date: 10 OCTOBER 2024

Designed By: JRR
Drawn By: CBD
Checked By: RAB

Drawing No.: C-201

HORIZONTAL SCALE

30 0 15 30 60 120

(IN FEET)
1 INCH = 30 FT.

LEGEND

- EXISTING ASPHALT
- EXISTING CONCRETE
- EXISTING GRAVEL
- EXISTING DIRT
- PROPOSED ASPHALT
- PROPOSED CONCRETE

SEE SHEET C201

SEE SHEET C202

PROPOSED BUILDING
F.F.E.=16.75

PROPOSED SCHOOL
F.F.E.=17.00

BUILDING 16
ONE STORY
BRICK BUILDING

BUILDING 17
ONE STORY BRICK BUILDING

ONE STORY BRICK BUILDING
(CAFETERIA)

PORTABLE 1

PORTABLE 2

PORTABLE 3

COVERED WOOD WALKWAY

ONE STORY
WOOD AND
BLOCK BUILDING

ONE STORY
BLOCK
BUILDING

METAL CONTAINER

CONSTRUCT CONCRETE SIDEWALK. SEE DETAILS

CONSTRUCT MODIFIED TYPE 'F' CONCRETE CURB & GUTTER. SEE DETAILS

INSTALL WHITE THERMOPLASTIC DIRECTIONAL ARROWS. (TYP)

INSTALL 24" WHITE THERMOPLASTIC STOP BAR & STOP SIGN ASSEMBLY SEE DETAILS

CONSTRUCT ASPHALT PARKING LOT. SEE DETAILS

CONSTRUCT ADA RAMP

STRIPE OUT CROSSWALK

STRIPE OUT CROSSWALK WITH 12" WHITE THERMOPLASTIC

STRIP OUT HANDICAPPED PARKING & INSTALL SIGNAGE. (TYPICAL) SEE DETAILS

CONSTRUCT 3' CURB TRANSITIONS. SEE DETAILS

CONSTRUCT ADA RAMP & INSTALL EARLY WARNING DETECTION MATS. SEE DETAILS

CONSTRUCT ADA RAMP. SEE DETAILS

INSTALL EARLY WARNING DETECTION MATS AT CROSSWALK (TYP)

CONSTRUCT 12" CONCRETE RIBBON CURB

INSTALL 24" WHITE THERMOPLASTIC STOP BAR, 12" WHITE THERMOPLASTIC CROSSING STRIPE & STOP SIGN ASSEMBLY SEE DETAILS

3' CURB TRANSITION

3.0' CURB TRANSITION

INSTALL 6" DOUBLE YELLOW THERMOPLASTIC STRIPE

STRIP OUT HANDICAPPED PARKING & INSTALL SIGNAGE. (TYPICAL) SEE DETAILS

INSTALL 24" WHITE THERMOPLASTIC STOP BAR, 12" WHITE THERMOPLASTIC CROSSING STRIPE & STOP SIGN ASSEMBLY SEE DETAILS

INSTALL WHITE THERMOPLASTIC DIRECTIONAL ARROWS. (TYP)

CONSTRUCT 24' WIDE ASPHALT DRIVE SEE DETAILS

CONSTRUCT STORMWATER POND SEE SHEET C300 FOR DETAILS

CONSTRUCT ASPHALT PARKING LOT. SEE DETAILS

CONSTRUCT MODIFIED TYPE 'F' CONCRETE CURB & GUTTER. SEE DETAILS

CONSTRUCT STORMWATER POND SEE SHEET C300 FOR DETAILS

BEACH DRIVE
(66' PUBLIC RIGHT-OF-WAY)

00-2S-22-0000-0071-0000
401 BEACH DR
DESTIN, 32541
PROPERTY USE:VACANT
LEGACY LIFESTYLES DESTIN PROP
C/O ZEIFMAN PARTNERS INC
TORONTO,

Jacobs | TITAN TECHNOLOGIES

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Telephone 850.438.0400 Fax 850.438.0448
EB 00009657 LB7916

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

David M Bagwell
Digitally signed by David M Bagwell
DN: C=US, E=dbagwell@engineering.com, O=Bagwell Engineering, CN=David M Bagwell
Reason: I am the author of this document
Date: 2024.10.10 07:00:55-05'00'

Project No..83X98735

Drawing Title:
ENLARGED SITE LAYOUT & DIMENSION PLAN

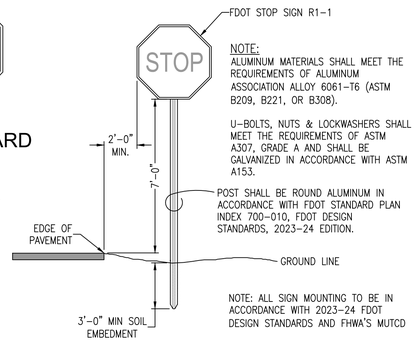
Date: 10 OCTOBER 2024

Designed By: JRR
Drawn By: CBD
Checked By: RAB

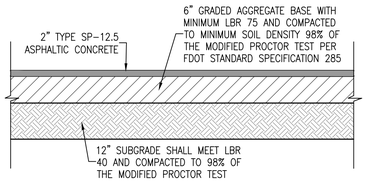
Drawing No.: C-202



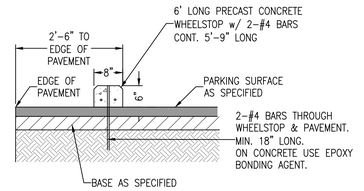
FDOT STANDARD
R1-1
2'-0" x 2'-0"
N.T.S.



SIGN MOUNTING DETAIL
N.T.S.



ON-SITE ASPHALT PAVEMENT DETAIL
N.T.S.



WHEEL STOP DETAIL
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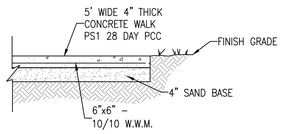
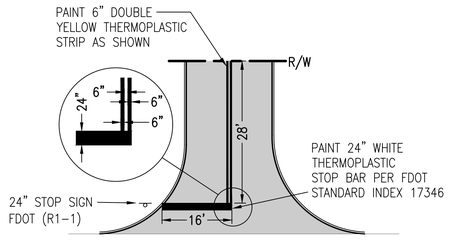
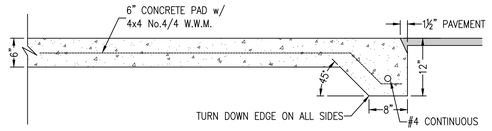


SIDEWALK DETAIL
N.T.S.



STRIPING DETAIL
N.T.S.



DUMPSTER PAD
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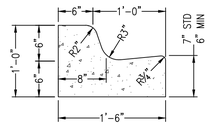


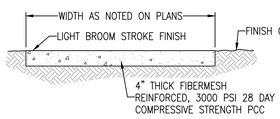
NOTES:
1. WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

2. ALL CURB TO HAVE DUMMY JOINT AT 10' ON CENTER. MIN. DEPTH OF JOINT TO BE 2".

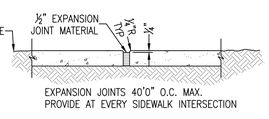
3. EXPANSION JOINTS ARE TO BE 30' ON CENTER. TYPICAL FOR ALL CURB.

MODIFIED TYPE 'F' CURB & GUTTER
N.T.S.

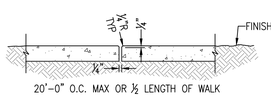
NOTE:
WALK SLOPE VARIES, SEE PLAN



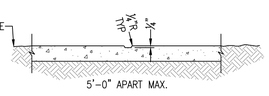
WALK SECTION



EXPANSION JOINT

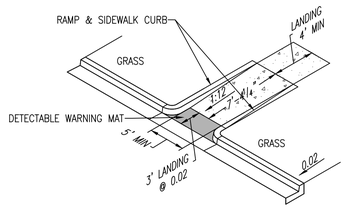


CONSTRUCTION JOINT

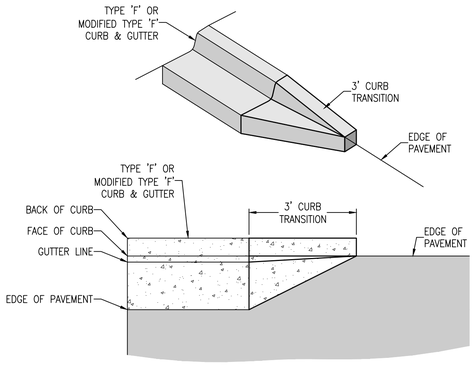


DUMMY GROOVE

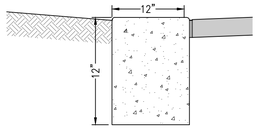
SIDEWALK DETAILS
N.T.S.



SIDEWALK CURB RAMP
N.T.S.
FDOT STANDARD CURB RAMP DETAIL
INDEX 304 (CR-7)



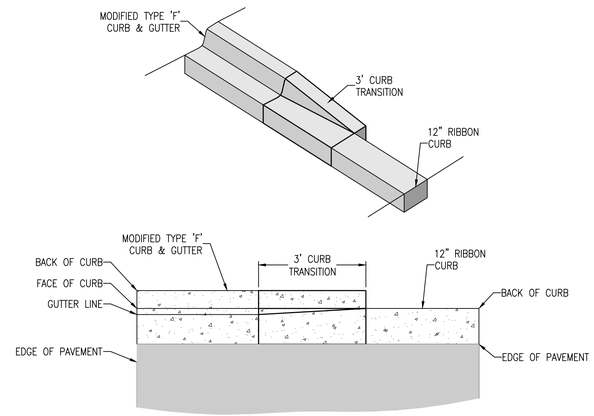
CURB TRANSITION
TYPE 'F' OR MODIFIED TYPE 'F' TO ASPHALT
N.T.S.



NOTES:
1. ALL CURB TO HAVE DUMMY JOINT AT 10' ON CENTER. MIN. DEPTH OF JOINT TO BE 2".

2. EXPANSION JOINTS ARE TO BE 30' ON CENTER. TYPICAL FOR ALL CURB.

12" RIBBON CURB
N.T.S.



CURB TRANSITION
MODIFIED TYPE 'F' TO RIBBON CURB
N.T.S.

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EB 00009657 LB7916

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

David M Bagwell
Digitally signed by David M Bagwell
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Reason: I am the author of this document
Date: 2024.10.10 07:00:55-05'00'

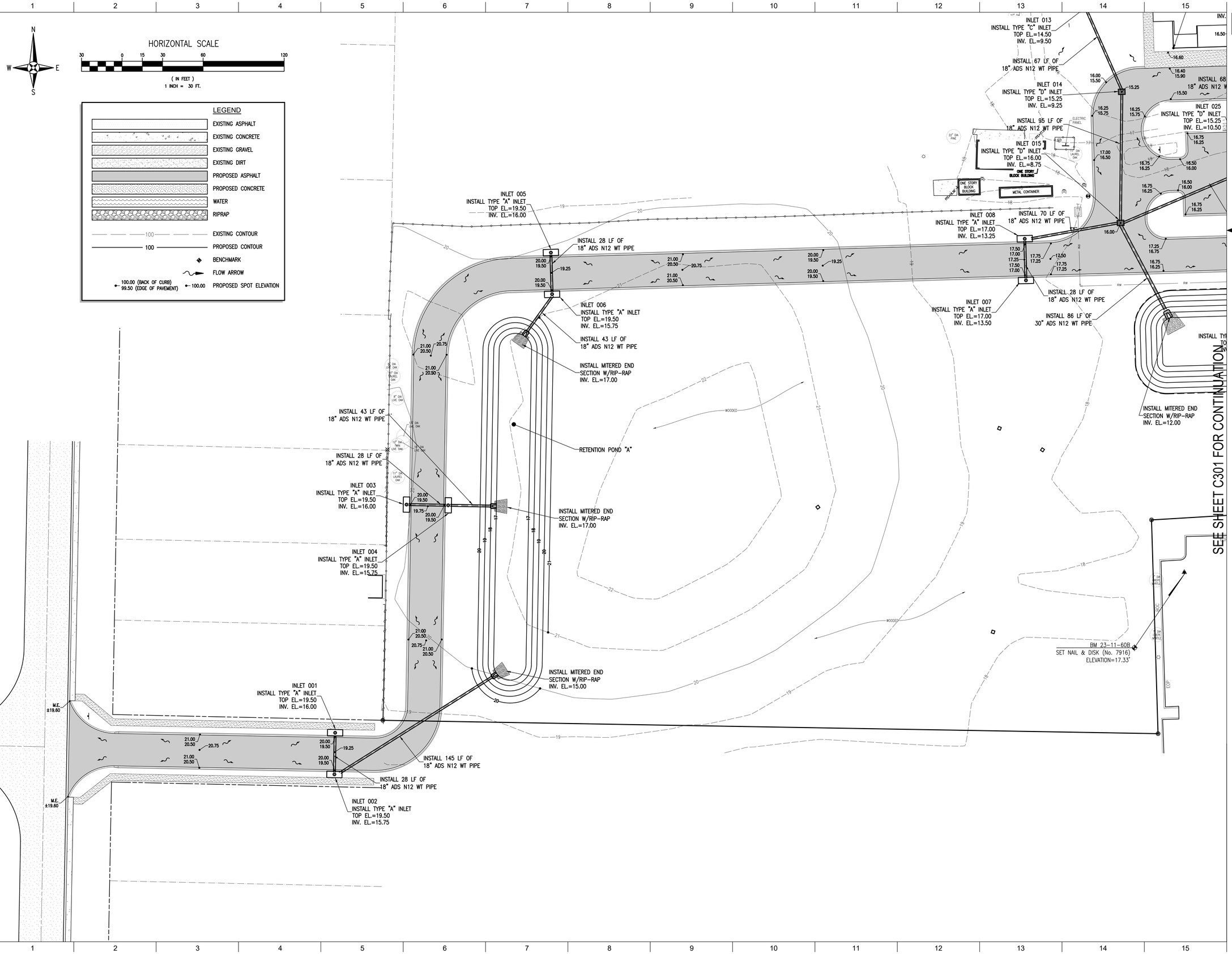
Project No.: 83X98735

Drawing Title:
SITE DETAILS

Date: 10 OCTOBER 2024

Designed By: JRR
Drawn By: CBD
Checked By: RAB

Drawing No.:
C-203



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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY · SCHOOL DISTRICT ·

Seal:

David M Bagwell

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Reason: I am the author of this document
Date: 2024.10.10 07:00:56-05'00'

Project No.: 83X98735

Drawing Title:
GRADING AND DRAINAGE PLAN

Date: 10 OCTOBER 2024

Designed By: JRR
Drawn By: CBD
Checked By: RAB

Drawing No.: C-300



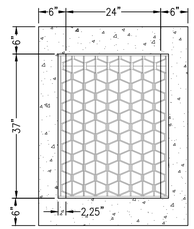
HORIZONTAL SCALE

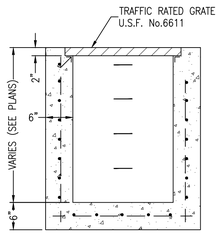
30 0 15 30 60 120

(IN FEET)
1 INCH = 30 FT.

LEGEND

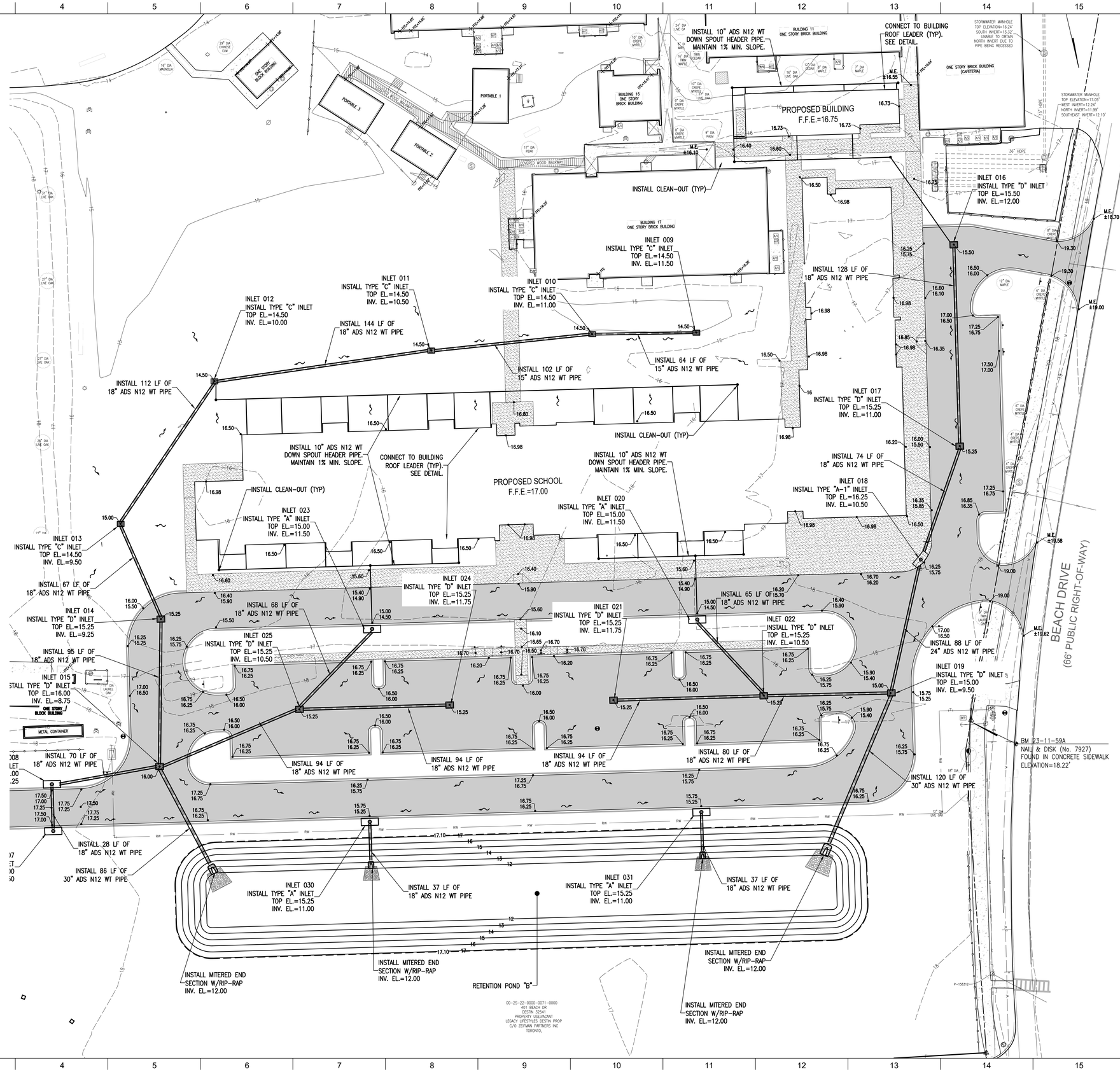
- EXISTING ASPHALT
- EXISTING CONCRETE
- EXISTING GRAVEL
- EXISTING DIRT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- WATER
- RIPRAP
- 100 EXISTING CONTOUR
- 100 PROPOSED CONTOUR
- BENCHMARK
- FLOW ARROW
- 100.00 (BACK OF CURB) / 99.50 (EDGE OF PAVEMENT) — 100.00 PROPOSED SPOT ELEVATION





FDOT TYPE 'C' INLET

N.T.S.



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EB 0009657 LB7916

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

David M Bagwell

Digitally signed by David M Bagwell
DN: C=US, E=David@bagwellengineering.com, O=Bagwell Engineering, CN=David M Bagwell
Reason: I am the author of this document
Date: 2024.10.10 07:00:55-05'00'

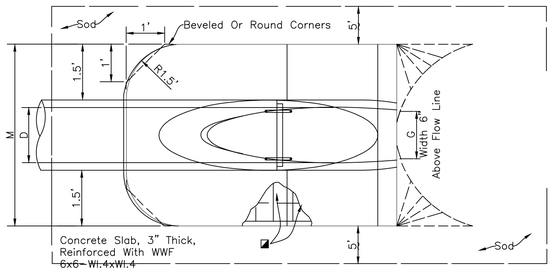
Project No.:83X98735

Drawing Title:
GRADING AND DRAINAGE PLAN

Date: 10 OCTOBER 2024

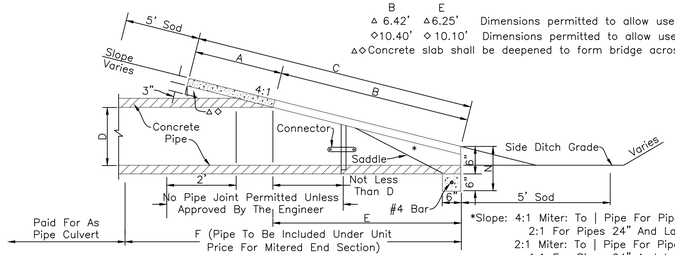
Designed By: JRR
Drawn By: CBD
Checked By: RAB

Drawing No.:
C-301



TOP VIEW–SINGLE PIPE

B E
△ 6.42' △6.25' Dimensions permitted to allow use of 8' standard pipe lengths.
◇10.40' ◇ 10.10' Dimensions permitted to allow use of 12' standard pipe lengths.
△◇Concrete slab shall be deepened to form bridge across crown of pipe. See section.



SECTION

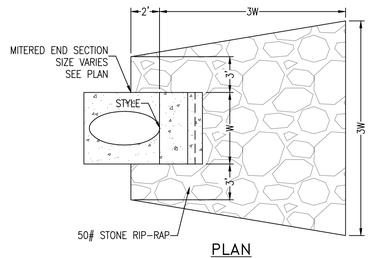
*Slope: 4:1 Miter: To | Pipe For Pipes 18" And Smaller.
2:1 For Pipes 24" And Larger.
2:1 Miter: To | Pipe For Pipes 18" And Smaller.
1:1 For Pipes 24" And Larger.

	DIMENSIONS AND QUANTITIES													3" CONCRETE SLAB (CY) ◪				SODDING (SQ. YDS.)			
	D	X	A	B	C	E	F	G	M				N								
									Single Pipe	Double Pipe	Triple Pipe	Quad. Pipe		Single Pipe	Double Pipe	Triple Pipe	Quad. Pipe	Single Pipe	Double Pipe	Triple Pipe	Quad. Pipe
4:1 Slope	18"	2'-10"	2.36'	5.12'	7.48'	5.03'	9'	1.41'	4.92'	7.75'	10.58'	13.42'	1.21'	0.47	0.69	0.91	1.14	25	28	31	35
4:1 Slope	24"	3'-5"	2.53'	7.18'△	9.71'	7.03'△	11'	1.73'	5.50'	8.92'	12.33'	15.75'	1.25'	0.60	0.90	1.21	1.52	28	32	36	40
4:1 Slope	30"	4'-3"	2.70'	9.25'	11.95'	9.03'	13'	2.00'	6.08'	10.33'	14.58'	18.83'	1.29'	0.76	1.19	1.63	2.07	31	36	41	46

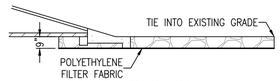
SINGLE ROUND CONCRETE PIPE

MITERED END SECTION DETAIL

N.T.S.



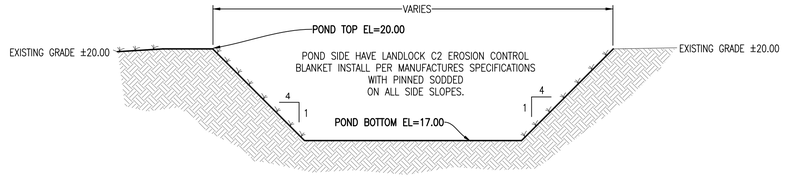
PLAN



SECTION

RIP-RAP DETAIL

N.T.S.



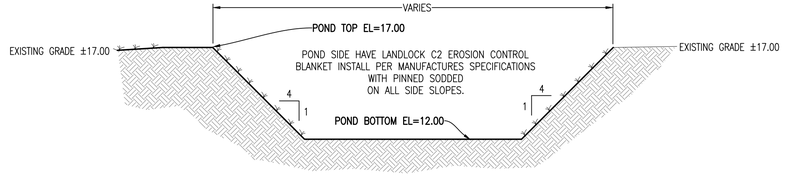
NOTE:

1. THE ENTIRE BANK SLOPE SHALL BE SODDED IN A MANNER TO GUARANTEE HEALTHY GRASS GROWTH (FREE FROM NOXIOUS WEEDS) SUCH AS ST. AUGUSTINE, CENTIPEDE OR OTHER SUITABLE GRASS.

2. THE POND BOTTOM SHALL BE STABILIZED WITH SOLID SOD. SOD SHALL BE SOURCED FROM SOD FARMS THAT DO NOT HAVE CLAYEY SOILS. CONTRACTOR TO ENSURE SOIL MAT ATTACHED TO SOD WILL PERCOLATE AT A MINIMUM RATE OF 4 FEET/DAY TO MEET ENGINEERS DESIGN. PERMEABILITY TEST AND LETTER FROM GEOTECHNICAL FIRM SHALL BE SUPPLIED BY CONTRACTOR TO ENGINEER/CITY PRIOR TO INSTALLATION. SOD THAT DOES NOT MEET THIS CRITERIA WILL NOT BE ACCEPTED AND WILL REQUIRE REPLACMENT.

POND "A" SECTION

N.T.S.



NOTE:

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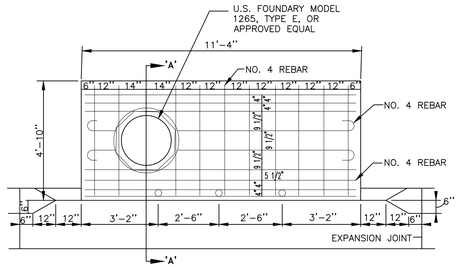
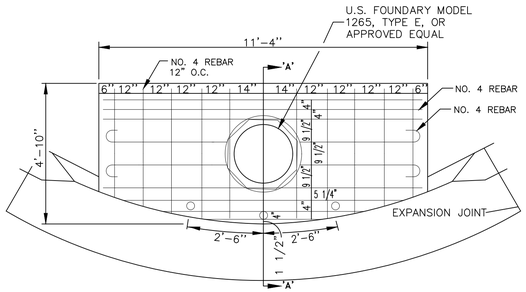
POND "B" SECTION

N.T.S.



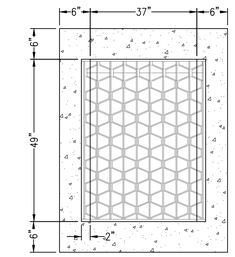
PLAN VIEW
TYPE "A" CURB INLET DETAIL

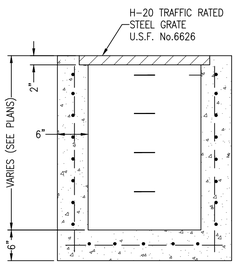
N.T.S



PLAN VIEW
TYPE "A-1" CURB INLET DETAIL

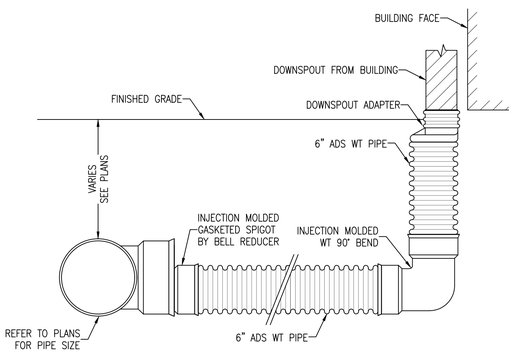
N.T.S





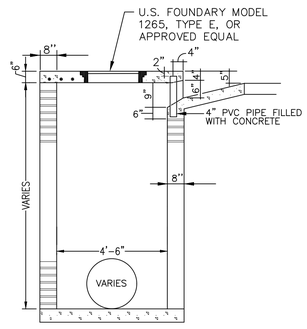
FDOT TYPE 'D' INLET

N.T.S.



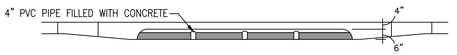
DOWNSPOUT CONNECTION DETAIL

N.T.S.



SECTION 'A'-'A'
TYPE "A" & "A-1" INLET

N.T.S



TYPE "A" & "A-1" INLET THROAT ELEVATION

N.T.S

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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

David M Bagwell

Digitally signed by David M Bagwell
DN: C=US, E=david@bagwellengineering.com, O=Bagwell Engineering, CN=David M Bagwell
Reason: I am the author of this document
Date: 2024.10.10 07:00:55-05'00'

Project No. 83X98735

Drawing Title:
DRAINAGE DETAILS

Date: 10 OCTOBER 2024

Designed By: JRR
Drawn By: CBD
Checked By: RAB

Drawing No.: C-302



HORIZONTAL SCALE



(IN FEET)
1 INCH = 20 FT.

LEGEND

- EXISTING ASPHALT
- EXISTING CONCRETE
- EXISTING GRAVEL
- EXISTING DIRT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- WATER
- RIPRAP

PORTABLE 1

BUILDING 16
ONE STORY
BRICK BUILDING

BUILDING 17
ONE STORY BRICK BUILDING

ONE STORY BRICK BUILDING
(CAFETERIA)

PROPOSED BUILDING
F.F.E.=16.75

PROPOSED SCHOOL
F.F.E.=17.00

COVERED WOOD WALKWAY

PLAY

CONNECT TO 6" FIRE MAIN AND
2" DOMESTIC WATER STUB-OUTS.
REFER TO PLUMBING PLANS FOR
EXACT LOCATION.

CONNECT TO 4" SANITARY
SEWER STUB-OUT. REFER
TO PLUMBING PLANS FOR
EXACT LOCATION.
INV.EL.=15.10

SEWER LATERAL SHALL
CROSS UNDER STORM LINE.

INSTALL 6" DR18 PVC FIRE MAIN.
MAINTAIN MIN. 30" COVER.
INSTALL FITTINGS AS REQUIRED.

INSTALL 2" DOMESTIC PVC
WATER SERVICE. MAINTAIN
MIN. 30" COVER. INSTALL
FITTING AS REQUIRED.

INSTALL 232 LF OF 4" PVC
SEWER MAIN @ 1.0% MIN.
SLOPE.

INSTALL 78 LF OF 8" PVC
SEWER MAIN @ 0.40% MIN.
SLOPE.

CORE AND CONNECT TO
EXISTING SEWER MANHOLE
WITH SERVICE BOOT.
INV. EL.=12.50

CONNECT TO 6" SANITARY
SEWER STUB-OUT. REFER
TO PLUMBING PLANS FOR
EXACT LOCATION.
INV.EL.=12.75

SEWER LATERAL SHALL
CROSS UNDER STORM LINE.

CONNECT TO 6" FIRE MAIN
AND 4" DOMESTIC WATER
STUB-OUTS. REFER TO
PLUMBING PLANS FOR
EXACT LOCATION.

INSTALL 6" DR18 PVC FIRE MAIN.
MAINTAIN MIN. 30" COVER.
INSTALL FITTINGS AS REQUIRED.

INSTALL 6" TEE

INSTALL 4"x2" TEE
WITH 2" GATE VALVE

INSTALL DWU APPROVED
4" RPZ BACKFLOW
PREVENTER.

INSTALL 4" OWNER
CONTROL GATE VALVE.

INSTALL 4" DOMESTIC PVC
WATER SERVICE. MAINTAIN
MIN. 30" COVER. INSTALL
FITTING AS REQUIRED.

REFER TO IRRIGATION PLANS
FOR CONTINUATION.

1" BACKFLOW PREVENTER

1" OWNER CONTROL VALVE

1" IRRIGATION METER

1"x6" TEE

CONNECT TO EXISTING 6" CI WATER
MAIN WITH 6"x6" TAPPING SLEEVE
AND VALVE W/BOX AND TRACER WIRE.
CONTRACTOR SHALL NOTIFY DWU 48
HOURS PRIOR TO CONNECTION.

CONNECT TO EXISTING 6" CI WATER
MAIN WITH 4"x6" TAPPING SLEEVE
AND VALVE W/BOX AND TRACER WIRE.
CONTRACTOR SHALL NOTIFY DWU 48
HOURS PRIOR TO CONNECTION.

INSTALL 4" WATER METER
VAULT PER DWU STANDARDS.

INSTALL 6" DOUBLE CHECK BACKFLOW
PREVENTER (SEE DETAIL).

STORMWATER MANHOLE
TOP ELEVATION=17.05'
WEST INVERT=12.24'
NORTH INVERT=11.99'
SOUTHEAST INVERT=12.10'

SANITARY SEWER MANHOLE
TOP ELEVATION=16.04'
NORTH INVERT=13.01'
NORTHEAST INVERT=12.43'
EASTERN INVERT=12.37'
SOUTH INVERT=12.20'
EASTERN AND SOUTHER
PIPES RECESS, PIPE SIZES
MAY NOT BE ACCURATE

15" HDPE

36" HDPE

6" CLAY

6" PVC

6" MCW

PVC

BEACH DRIVE
(66' PUBLIC RIGHT-OF-WAY)

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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

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Project No.83X98735

Drawing Title:
UTILITY PLAN

Date: 10 OCTOBER 2024

Designed By: JRR
Drawn By: CBD
Checked By: RAB

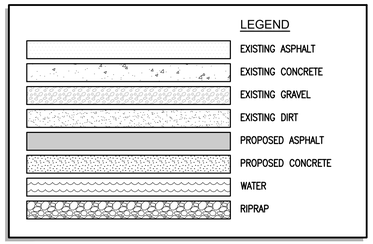
Drawing No.:
C-400



HORIZONTAL SCALE



(IN FEET)
1 INCH = 30 FT.



UTILITY NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION AND DEPTH OF EXISTING UTILITIES AND TO DETERMINE IF OTHER UTILITIES WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK AND TAKE WHATEVER STEPS NECESSARY TO PROVIDE FOR THEIR PROTECTION.

2. CONTRACTOR SHALL COORDINATE WITH DWU, AND GULF POWER, OR ANY OTHER UTILITY COMPANIES HAVING JURISDICTION FOR REMOVAL/RELOCATION AND/OR PROTECTION OF EXISTING UTILITY POLES, AERIAL LINES, FIRE HYDRANTS, AND OTHER UTILITIES AS NECESSARY TO COMPLETE CONSTRUCTION.

3. ALL NEW WATER LINES SHALL BE CLEANED, DISINFECTED, PRESSURE TESTED, AND BACTERIOLOGICALLY CLEANED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION RULES AND REGULATIONS.

4. ALL WATER MAINS SHALL BE NSF APPROVED FOR POTABLE WATER USE.

5. MAINTAIN 18 INCH MIN. VERTICAL SEPARATION BETWEEN ALL POTABLE WATER MAINS AND SANITARY SEWER GRAVITY LINES. (WATER ABOVE SEWER).

6. THE TOP OF ALL CLEANOUTS SHALL BE FLUSH WITH THE PAVEMENT OR, WHEN NOT IN THE PAVEMENT, FLUSH WITH THE FINISH GRADE. CONNECTION POINTS FOR UTILITIES SHALL BE CLEARLY MARKED FOR FUTURE BUILDING CONNECTION, COORDINATE WITH PLUMBING CONTRACTOR.

7. ALL WATER AND SEWER WORK SHALL BE IN ACCORDANCE WITH THE LATEST ADDITION OF THE DWU ENGINEERING MANUAL.

8. ADEQUATE PROVISIONS SHALL BE MADE FOR FLOW OF SEWERS, DRAINS AND WATER COURSES ENCOUNTERED DURING CONSTRUCTION.

9. CONTRACTOR SHALL NOTIFY APPROPRIATE UTILITY COMPANIES 72 HOURS (3 BUSINESS DAYS) PRIOR TO BEGINNING CONSTRUCTION.

10. ALL NEW WATER AND SEWER SERVICE LINES SHALL HAVE A MINIMUM COVER OF 30 INCHES (MAXIMUM 36"), UNLESS OTHERWISE NOTED.

11. CONTRACTOR IS TO RESTORE ALL DISTURBED RIGHT-OF-WAYS IN ACCORDANCE WITH CITY OF PENSACOLA AND THE DWU GUIDELINES.

12. CONTRACTOR SHALL COORDINATE W/PLUMBING CONTRACTOR FOR BUILDING UTILITIES' CONNECTION.

13. ALL CONNECTIONS TO THE DWU WATER AND SEWER SYSTEM SHALL BE MADE WITH DWU PERSONNEL PRESENT.

14. ANY REMOVAL OR RELOCATION OF DWU WATER/SEWER UTILITIES MUST BE APPROVED IN WRITING PRIOR TO THE WORK BEING DONE.

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OKALOOSA COUNTY · SCHOOL DISTRICT ·

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UTILITY PLAN

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Drawn By: CBD
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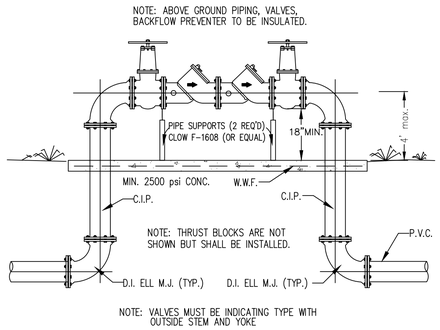
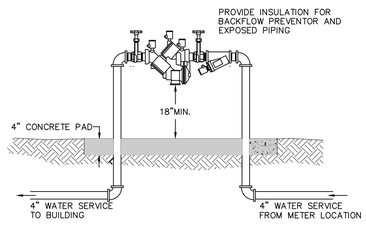
Drawing No.: C-401



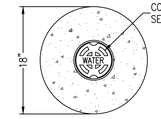
DOUBLE CHECK BACKFLOW PREVENTER DETAIL

N.T.S.

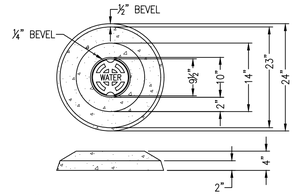


REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY

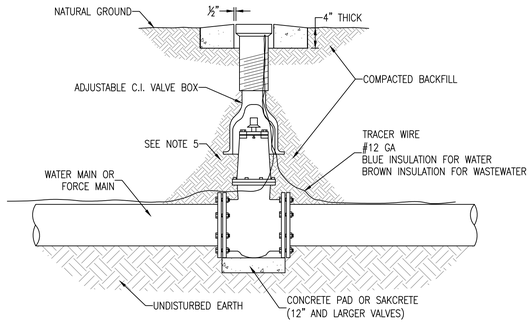
NOTES:
1. VALVE BOX AND BOOT SHALL BE CAST IRON.
2. VALVE COVER SHALL BE MARKED "WATER" OR "SEWER" AS APPLICABLE.
3. VALVE BOX TOP SHALL BE FLUSH WITH FINISHED GRADE OR ½" ABOVE NATURAL GROUND LEVEL.
4. GATE VALVE SHALL BE RESILIENT SEAT WITH MECHANICAL JOINT ENDS OR APPROVED EQUIVALENT.
5. EARTH UNDER FLANGE OF VALVE BOX & COLLAR TO BE FIRM AND WELL TAMPED TO ENSURE AGAINST VALVE BOX SETTLING.



CAST-IN-PLACE COLLAR



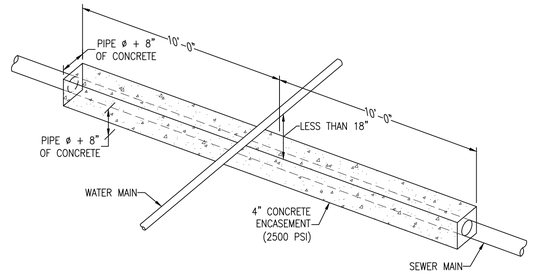
24" PRE-CAST VALVE PAD



TYPICAL VALVE & BOX INSTALLATION

N.T.S.

NOTE:
SANITARY SEWER LINES (GRAVITY OR PRESSURE) SHALL HAVE 18" OR GREATER VERTICAL CLEARANCE BELOW ANY POTABLE WATER LINE WHEN CROSSING. A MINIMUM OF 6" VERTICAL CLEARANCE IS REQUIRED FOR OTHER UTILITIES. HORIZONTAL CLEARANCE BETWEEN SANITARY SEWER LINE THAT IS PARALLEL TO AND LESS THAN 18" BELOW A POTABLE WATER LINE SHALL BE 10' OR GREATER. A MINIMUM OF 30" IS REQUIRED FOR OTHER UTILITIES. IF THIS IS NOT POSSIBLE OR PRACTICAL, SEE NOTES BELOW:



FOR CROSSING: ENCASE AS ABOVE SO THAT THE ENDS OF ENCASEMENT ARE AT LEAST 12' FROM ANY WATER LINE JOINT. WATER LINE JOINT MUST NOT BE CLOSER THAN 5' TO THE POINT OF CROSSING, OR IT MUST ALSO BE ENCASED.

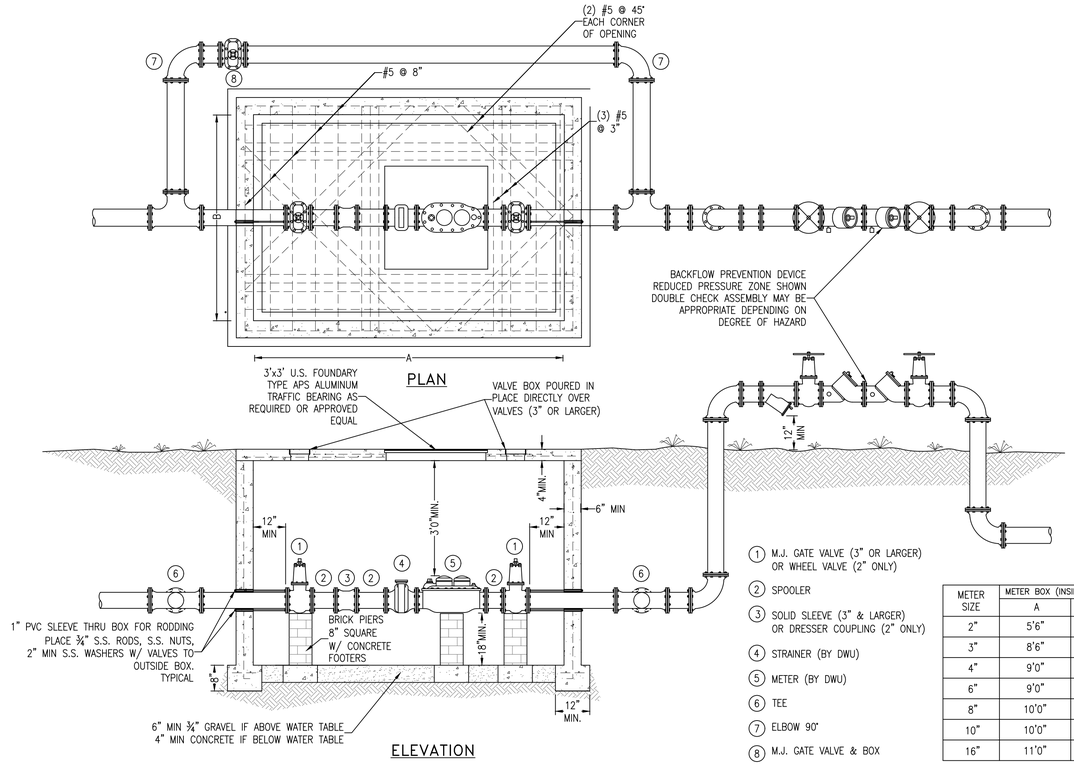
ALTERNATE 1: USE EQUALLY (OR HIGHER) RATED PRESSURE PIPE FOR SEWER WITH NO JOINTS CLOSER THAN 12' APART AND 6" VERTICAL.

ALTERNATE 2: PLACE SEWER LINE INTO STEEL CASING AND CENTER 20' PIECE WITH 4' VERTICAL CLEARANCE AND SEAL ENDS.

FOR PARALLEL: AND 6' TO 10' APART USE ALTERNATE 2, BUT IF MORE THAN 10' IN LENGTH, ALTERNATE 1 MUST BE USED AND JOINTS ARE TO BE STAGGERED. IF LINES MUST BE 3' TO 6' APART, ALTERNATE 1 MUST BE USED WITH A HIGHER RATED PRESSURE PIPE FOR SEWER (i.e., WATER LINE IS DR25 THEN USE DR18 OR 21 FOR SEWER).

SEWER / WATER SEPARATION & CLEARANCES

N.T.S.

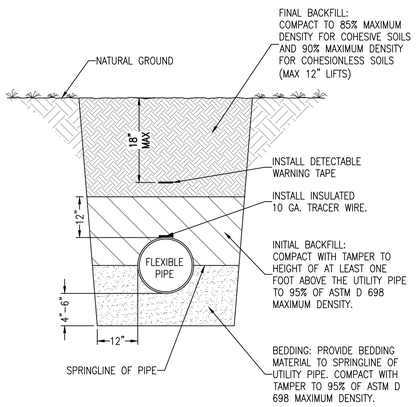


1	M.J. GATE VALVE (3" OR LARGER) OR WHEEL VALVE (2" ONLY)
2	SPOOLER
3	SOLID SLEEVE (3" & LARGER) OR DRESSER COUPLING (2" ONLY)
4	STRAINER (BY DWU)
5	METER (BY DWU)
6	TEE
7	ELBOW 90°
8	M.J. GATE VALVE & BOX

METER SIZE	METER BOX (INSIDE DIMENSIONS)	
	A	B
2"	5'6"	4'6"
3"	8'6"	4'6"
4"	9'0"	5'0"
6"	9'0"	6'0"
8"	10'0"	6'0"
10"	10'0"	6'0"
16"	11'0"	6'0"

COMPOUND TURBINE METER DETAIL

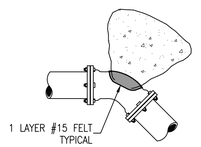
N.T.S.



NOTES:
1. EXCAVATE TRENCH TO A DEPTH THAT PROVIDES MINIMUM COVER OF 30" FROM EXISTING GROUND SURFACE, OR FROM THE INDICATED FINISHED GRADE, WHICHEVER IS LOWER, TO THE TOP OF PIPE.
2. FOR FIRE PROTECTION YARD MAINS OR PIPING, AN ADDITIONAL 6" OF COVER IS REQUIRED.

FLEXIBLE PIPE BEDDING DETAIL

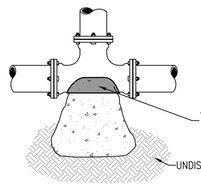
N.T.S.



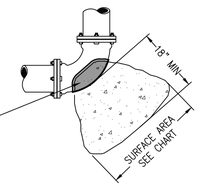
45° BEND – M.J.

MINIMUM THRUST BLOCK DIMENSIONS:
SURFACE AREA AGAINST UNDISTURBED SOIL

PIPE SIZE \ FITTING	DEAD END OR TEE	90° BEND	45° BEND	22.5° BEND
4"	1' X 2'	1.5' X 1.5'	1' X 1.5'	1' X 1'
6"	2' X 2'	2.5' X 2.5'	2' X 1.5'	1' X 1.5'
8"	2.25' X 3'	3' X 3'	2' X 2.5'	1.5' X 1.5'
10"	3.5' X 3'	4' X 3.75'	2.75' X 3'	2' X 2'
12"	4' X 4'	4' X 5'	3' X 4'	2' X 3'
16"	5' X 5.5'	6' X 6.5'	4' X 5'	3' X 3.5'



TEE – M.J.



90° BEND – M.J.

NOTES:
1. ONE LAYER OF #15 FELT TO BE USED TO PREVENT ADHESION OF CONCRETE TO FITTING.
2. ALL THRUST BLOCKS TO BE BACKED BY UNDISTURBED SOIL.
3. THRUST BLOCK DIMENSIONS BASED ON SM SOIL CLASSIFICATION.
4. CONCRETE MIN. 2,500 PSI.
5. JOINT RESTRAINTS ARE TO BE USED ON ALL FITTINGS. TRUST BLOCKS REQUIRED ON 90° BENDS, 45° BENDS, TEES, TAPPING SLEEVES, AND DEAD ENDS.

TYPICAL THRUST BLOCK INSTALLATIONS

N.T.S.

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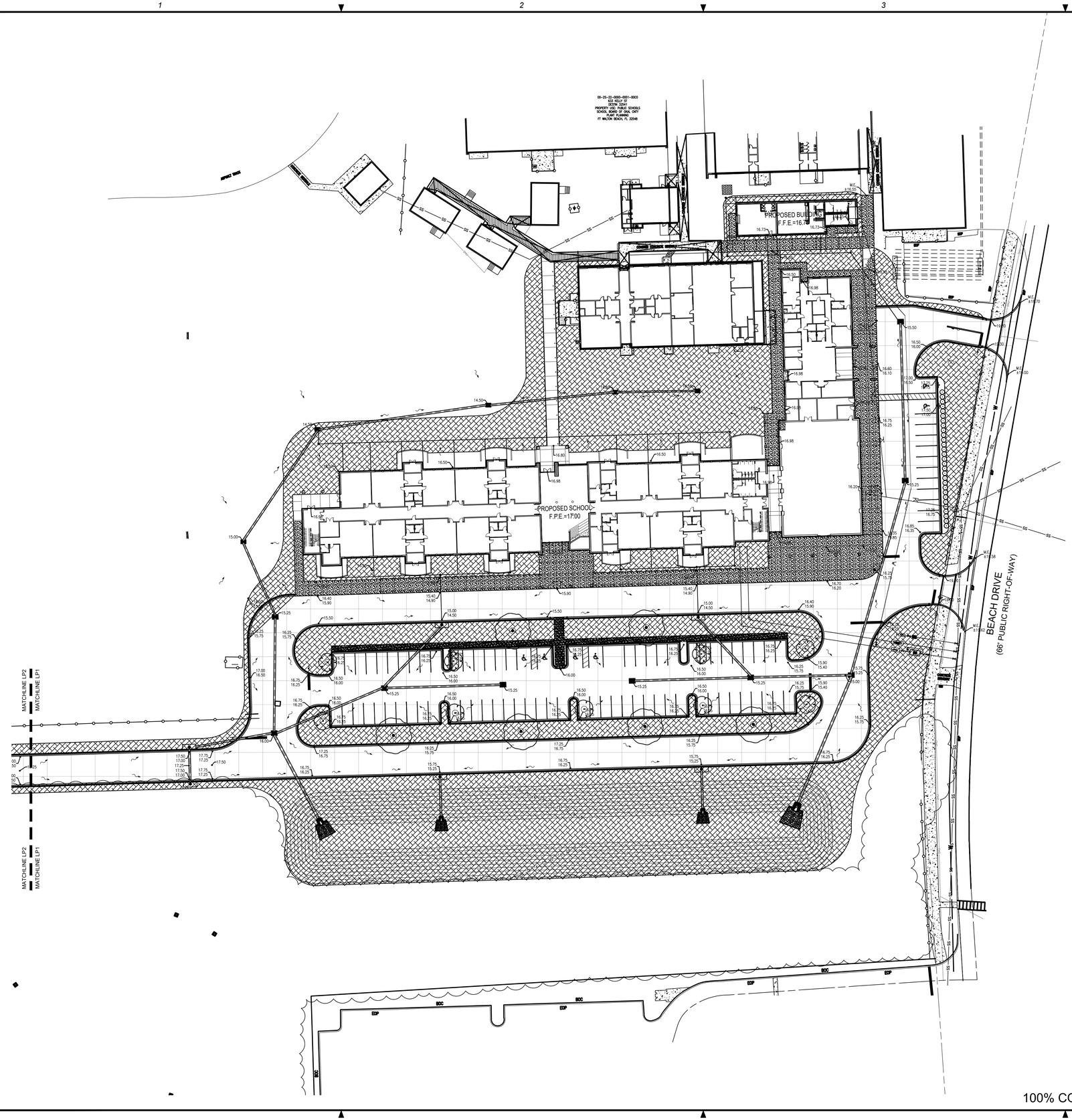
Project No. 83X98735

Drawing Title:
UTILITY DETAILS

Date: 10 OCTOBER 2024

Designed By: JRR
Drawn By: CBD
Checked By: RAB

Drawing No.: C-402



PARKING LOT LANDSCAPE REQUIREMENTS (89 SPACES)

CANOPY TREE	UNDERSTORY TREE	SHRUB
(1 PER 15 SPACES)	(1 PER 10 SPACES)	(1 PER 4 SPACES)
6 REQ'D	9 REQ'D	22 REQ'D
6 SHOWN	9 SHOWN	29 SHOWN

LANDSCAPE LEGEND

GROUNDCOVER

135,000 SF INCLUDING 10% FOR WASTE
TIF 419 BERMUDA GRASS
CYNODON DACTYLON 'TIF 419'

SHRUBS

29 SWEET VIBURNUM
VIBURNUM ODORATISSIMUM
48" o.c.

TREES

9 SWEETBAY
MAGNOLIA VIRGINIANA
6' HT. MINIMUM

9 LIVE OAK
QUERCUS VIRGINIANA
6' HT. MINIMUM

LANDSCAPE NOTES:

1. LOCATE ALL UTILITIES BEFORE DIGGING. PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.
2. ELIMINATE EXISTING VEGETATION IN AREAS TO BE PLANTED. SPRAY WITH ROUNDUP AT MANUFACTURER'S RECOMMENDED RATE TWICE IN 14 DAYS.
3. TOP DRESS ALL AREAS TO RECEIVE PLANTINGS WITH 2" FINISHED MUSHROOM COMPOST PRIOR TO PLANTING.
4. ALL PLANT MATERIAL FLORIDA #1 OR BETTER.
5. DECREASE PLANT SPACING AS REQUIRED TO ALLOW PLACEMENT OF THE DESIGNATED NUMBER OF PLANTS PER GROUPING.
6. FERTILIZE ALL PLANTINGS WITH OSMOCOTE OR OTHER APPROVED SLOW RELEASE FERTILIZER AT MANUFACTURER'S RECOMMENDED RATE BEFORE MULCHING.
7. APPLY PREEN OR OTHER APPROVED PRE-EMERGENT HERBICIDE TO ALL PLANTING AREAS BEFORE MULCHING.
8. MULCH ALL AREAS OF TREE, SHRUB AND GROUNDCOVER MASS PLANTINGS WITH 3" GRAVEL MULCH.
9. QUANTITIES SHOWN IN PLANT LIST ARE FOR CONTRACTOR'S CONVENIENCE. VERIFY ALL PLANT QUANTITIES SHOWN ON PLAN AND IN PLANT LIST.
10. B&B MATERIAL MAY BE SUBSTITUTED FOR CONTAINER GROWN MATERIAL PROVIDED IT EXCEEDS THE MINIMUM SIZES NOTED.
11. SOD ALL DISTURBED AREAS WITH SPECIES SHOWN ON PLAN.
12. WARRANTY ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE.

IRRIGATION NOTES:

1. AUTOMATIC IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE OF ALL LANDSCAPE AREAS.
2. CONTRACTOR RESPONSIBLE FOR LOCATING AND SUPPLYING ELECTRICAL POWER TO CONTROLLER.
3. CONTRACTOR TO PROVIDE AND PAY FEES FOR SEPARATE IRRIGATION METER.
4. PROVIDE BACKFLOW PREVENTION PER CITY REQUIREMENTS.
5. PROVIDE RAIN SHUT OFF DEVICE PER FLA. STATE LAW.

GRAPHIC SCALE

0 5 10 20 30 40

SCALE IN FEET

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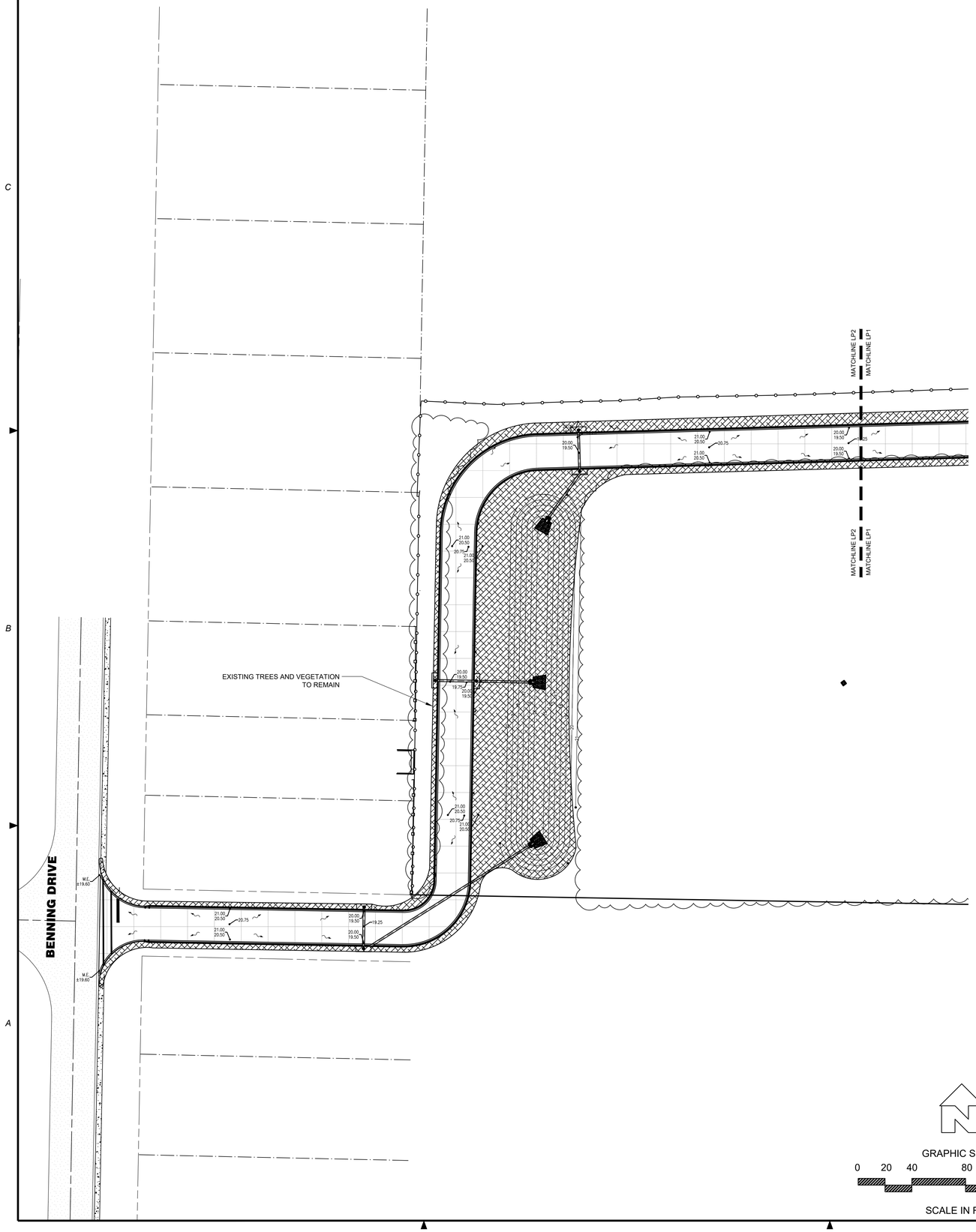
Project No.: 83X98735

Drawing Title:
LANDSCAPE PLAN

Date: 10 OCTOBER 2024

Designed By: AH
Drawn By: AH
Checked By: AH

Drawing No.:
LP1



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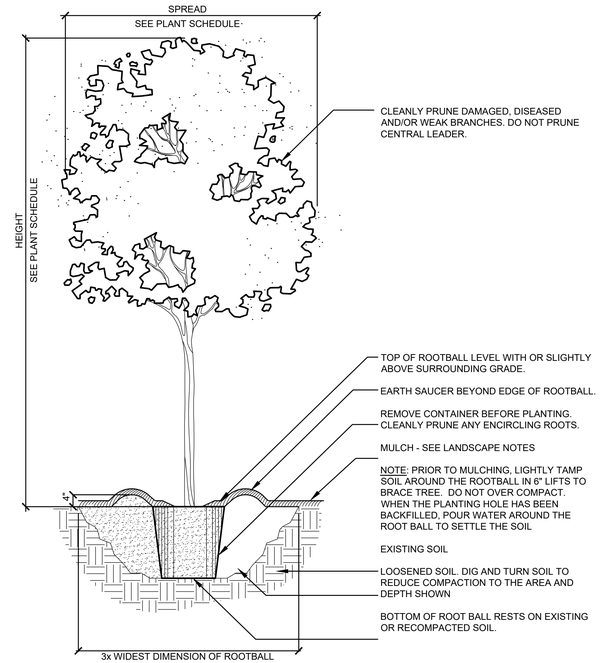
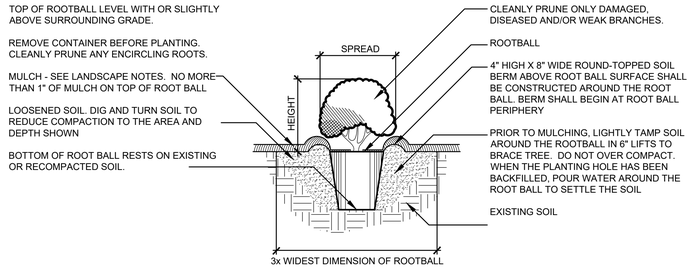


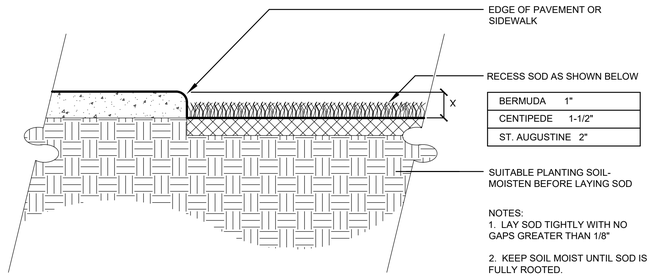
NOTES:
1. REMOVE ALL STRING &/OR WIRE WRAPPED AROUND TRUNK.
2. REMOVE ALL STRAPS, ROPES, WIRE &/OR STRINGS USED TO LIFT THE ROOTBALL.
3. REMOVE ALL BURLAP &/OR WIRE FROM THE TOP OF THE ROOT BALL.
4. TOP OF FIRST FEEDER ROOT TO BE SET SLIGHTLY ABOVE SURROUNDING FINISH GRADE.

1 LP2 TREE PLANTING
SCALE: NOT TO SCALE



NOTE: MEASURE HEIGHT FROM TOP OF ROOT BALL SEE PLANT SCHEDULE FOR REQUIRED HEIGHT AND SPREAD FOR EACH SPECIES

2 LP2 PLANTING DETAIL FOR SHRUBS
SCALE: NOT TO SCALE



BERMUDA	1"
CENTIPEDE	1-1/2"
ST. AUGUSTINE	2"

NOTES:
1. LAY SOD TIGHTLY WITH NO GAPS GREATER THAN 1/8"
2. KEEP SOIL MOIST UNTIL SOD IS FULLY ROOTED.
3. DO NOT INSTALL SOD UNTIL IRRIGATION SYSTEM IS FUNCTIONAL.

3 LP2 SOD DETAIL AT PAVING
SCALE: NOT TO SCALE

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Date:	By:	Description:
		06/04/24 PERMIT

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER
Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

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Date: 2024.10.10 07:56:55-05'00'

Project No.: 83X98735

Drawing Title:
LANDSCAPE PLAN

Date: 10 OCTOBER 2024

Designed By: AH
Drawn By: AH
Checked By: AH

Drawing No.:
LP2

STRUCTURAL - GENERAL NOTES

1. TO THE BEST OF OUR KNOWLEDGE, THE STRUCTURAL PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE FOLLOWING GOVERNING DESIGN CODES:
   A. ACI 318-19: AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   B. AISC 341-16 MANUAL: AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION
   C. AISI S100 MANUAL: AMERICAN IRON AND STEEL INSTITUTE, COLD-FORMED STEEL DESIGN MANUAL
   D. ASCE 7-22: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
   E. AWS D1.1/D1.1M 2018: AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE
   F. FBC 2023: FLORIDA BUILDING CODE
   G. SDI RD 2017: STANDARD FOR STEEL ROOF DECK
   H. SJI 100-20: 45TH EDITION STANDARD SPECIFICATIONS, LOAD TABLES AND WEIGHT TABLES FOR K-SERIES, LH-SERIES, DLH-SERIES AND JOIST GIRDERS
   I. TMS 402/602: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES
2. THE STRUCTURAL DOCUMENTS ARE TO BE USED IN CONJUNCTION WITH THE CIVIL, ARCHITECTURAL, MECHANICAL, PLUMBING, TELECOM AND ELECTRICAL. USE THESE NOTES IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS. IF A CONFLICT EXISTS, THE MORE STRINGENT GOVERNS.
3. SEE PROJECT SPECIFICATIONS FOR TESTING REQUIREMENTS.
4. THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS; INCLUDING DIMENSIONS, AND SITE CONDITIONS AND COORDINATE WITH FIELD DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. ANY AND ALL DISCREPANCIES SHALL BE SUBMITTED IN WRITING TO THE *ENGINEER OF RECORD*. DO NOT MODIFY OR CHANGE THE SIZE OR DIMENSIONS OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE *ENGINEER OF RECORD*.
5. IT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR TO LOCATE ANY AND ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT, AND TO PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE. EACH CONTRACTOR SHALL PROTECT HIS WORK, ADJACENT PROPERTY AND THE PUBLIC. EACH CONTRACTOR IS SOLELY RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLECT.
6. WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK. DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. ANY QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE ARCHITECT / ENGINEER.
7. DESIGN LOAD CRITERIA:
   A. BUILDING RISK CATEGORY. III
   B. GRAVITY LOADS:
      a. SLAB ON GRADE (U.N.O.). . . . . 150 PSF
      b. FIRST FLOOR MECH. AND ELECTRICAL ROOM . . . . . 400 PSF
      c. ROOF LIVE LOAD . . . . . 20 PSF
      d. ROOF DEAD LOAD . . . . . 20 PSF
      e. TRUSS BOTTOM CHORD DEAD LOAD . . . . . 15 PSF
      f. 2ND FLOOR LIVE LOAD . . . . . SEE DETAIL 1/S-002
      g. STAIRS AND EXITS . . . . . 100 PSF
   C. WIND LOADS:
      a. ULTIMATE DESIGN WIND SPEED. . . . . 167 MPH
      b. NOMINAL DESIGN WIND SPEED . . . . . 129 MPH
      c. WIND EXPOSURE CATEGORY C
      d. INTERNAL PRESSURE COEFFICIENT . . . . . ±0.18 (ENCLOSED)
8. THE SPECIALTY ENGINEER, DEFINED AS - A PROFESSIONAL ENGINEER, LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED, WHO PERFORMS SPECIALTY STRUCTURAL ENGINEERING SERVICES FOR SELECTED SPECIALTY-ENGINEERED ELEMENTS IDENTIFIED IN THE CONTRACT DOCUMENTS, AND WHO HAS EXPERIENCE AND TRAINING IN THE SPECIALTY. DOCUMENTS SIGNED AND SEALED BY THE SPECIALTY ENGINEER SHALL BE COMPLETED BY OR UNDER THE DIRECT SUPERVISION OF THE SPECIALTY ENGINEER. AT MINIMUM ROOF SYSTEMS, STOREFRONT GLAZING SYSTEMS, SOFFIT SYSTEMS, STAIRS, ALL LTGA FRAMING, ETC, AND THEIR ATTACHMENTS TO THE STRUCTURE SHALL BE DESIGNED BY A SPECIALTY ENGINEER TO CONFORM TO ALL LOADING REQUIREMENTS INCLUDING WIND AND IMPACT RESISTANCE.
9. DO NOT SCALE THE DRAWINGS, USE DIMENSIONS SHOWN ON PLAN IN CONJUNCTION WITH CONTRACTOR FIELD VERIFIED INFORMATION. IF A CONFLICT EXISTS, NOTIFY THE CONTRACTING OFFICER IN WRITING FOR RESOLUTION OF ANY AND ALL CONFLICTS.

SHOP DRAWING SUBMITTALS

1. THE REVIEW OF SUBMITTALS AND/ OR SHOP DRAWINGS DONE BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER. THE REVIEW BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE ONLY. IF SHOP DRAWINGS HAVE NOT BEEN REVIEWED AND APPROVED BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER, THEY SHALL BE RETURNED WITHOUT APPROVAL.
2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY AND ALL ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF ALL SHOP DRAWINGS IN RELATIONSHIP TO THE CONSTRUCTION DOCUMENTS.
3. ALL MODIFICATIONS MADE FOR SUBMITTALS THAT ARE RE-SUBMITTED SHALL CLEARLY NOTE ALL CHANGES.
4. REPRODUCING THE CONTRACT DOCUMENTS FOR USE AS SHOP DRAWINGS IS NOT ALLOWED, AND SHOP DRAWINGS WILL BE RETURNED WITHOUT APPROVAL.
5. GENERAL SHOP DRAWING REQUIREMENTS:
   A. SUBMIT SHOP DRAWINGS AND ANY OTHER SPECIAL INFORMATION NECESSARY FOR PROPER FABRICATION, ERECTION, AND PLACEMENT OF STRUCTURAL FABRICATIONS. INCLUDE PLANS, ELEVATIONS, AND SECTIONS. CLEARLY SHOW ANCHORAGES, CONNECTIONS, AND ACCESSORY ITEMS. THE DETAILER MUST INTERPRET THE CONTRACT DOCUMENTS AND CLEARLY CONVEY THIS INTERPRETATION TO THE FIELD IN THE FORM OF PLACING OR ERECTION DRAWINGS.
   B. CONCRETE AND CMU REINFORCING DETAILER- PROVIDE PLACING DRAWINGS FOR FABRICATION AND PLACING OF REINFORCING STEEL. THESE DRAWINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: BAR LISTS, SCHEDULES, BENDING DETAILS, PLACING DETAILS, PLACING PLANS, AND PLACING ELEVATIONS.
      a. CLEARLY SHOW ELEVATIONS OF ALL BEARING AND SHEAR WALLS. INDICATE OPENINGS, DETAILS OF ALL REINFORCING WITH LOCATIONS OF SPLICES AND HOOKS, CONTROL JOINTS, EXPANSION JOINTS, LINTELS, BOND BEAMS, AND PILASTERS.
      b. CLEARLY SHOW BEAM ELEVATIONS AND SECTIONS. INDICATE BAR LENGTHS, HOOKS, STIRRUP SPACING, LAP SPLICES, OFFSETS, AND LOCATION OF BARS WITH RESPECT TO ALL SUPPORTS.
      c. CLEARLY SHOW COLUMN ELEVATIONS, ALL COLUMNS MUST CLEARLY BE SHOWN.
      d. CLEARLY SHOW ELEVATION, SECTIONS, AND DETAILS OF ALL BEAM TO COLUMN CONNECTIONS.
      e. CLEARLY SHOW FOUNDATION REINFORCING. INDICATE BAR LENGTHS, LOCATION AND SPLICES OF CONTINUOUS BARS, AND BAR SUPPORTS. CLEARLY SHOW LOCATIONS OF ALL DOWELS ON PLAN. INDICATE FOOTING STEP LOCATIONS AND PROVIDE DETAILS.

SPECIALTY ENGINEER SHOP DRAWING SUBMITTALS

1. SPECIALTY ENGINEER:
   A. SHALL BE AN EMPLOYEE OR OFFICER OF A FABRICATOR, AN EMPLOYEE OR OFFICER OF AN ENTITY SUPPLYING COMPONENTS TO A FABRICATOR, OR AN INDEPENDENT CONSULTANT RETAINED BY THE FABRICATOR OR HIS SUPPLIER.
2. THE FOLLOWING SYSTEMS AND COMPONENTS AS A MINIMUM REQUIRE FABRICATION AND ERECTION DRAWINGS WITH INPUT BY A SPECIALTY ENGINEER, BUT ARE NOT LIMITED TO: WINDOW SYSTEMS, STOREFRONT SYSTEM, ROOF SYSTEMS (INCLUDING PRE-ENGINEERED TRUSSES AND ATTACHMENTS, PRE-ENGINEERED STAIRS, AND LOUVERS.
3. THE SPECIALTY ENGINEER OR MANUFACTURER SHALL DESIGN, PROVIDE, AND INSTALL THEIR COMPONENTS AND THE COMPONENT CONNECTIONS TO THE PRIMARY STRUCTURE PER THE CRITERIA STATED IN THESE NOTES OR THE CURRENT GOVERNING BUILDING CODES, WHICHEVER IS MORE STRINGENT.
4. SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES, LIST THE DESIGN CRITERIA, AND SHOW ALL DETAILS AND PLANS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. CALCULATIONS AND SHOP DRAWINGS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.
5. SHOP DRAWINGS AND CALCULATIONS REQUIRE THE SEAL, DATE AND SIGNATURE OF THE SPECIALTY ENGINEER. COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL COMPUTATIONS PROVIDED THEY ARE ACCOMPANIED BY SUFFICIENT DESCRIPTIVE INFORMATION TO PERMIT THEIR PROPER EVALUATION. SUCH DESCRIPTIVE INFORMATION SHALL BEAR THE SEAL AND SIGNATURE OF THE SPECIALTY ENGINEER AS AN INDICATION THAT HE HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS.
6. REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO VERIFYING THE FOLLOWING
   A. THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED.
   B. THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE SPECIALTY ENGINEER.
   C. THAT THE SPECIALTY ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIED STRUCTURAL CRITERIA. (NO DETAILED CHECK OF CALCULATIONS WILL BE MADE.)
   D. THAT THE CONFIGURATION SET FORTH IN THE STRUCTURAL SUBMITTALS IS CONSISTENT WITH THE CONTRACT DOCUMENTS. (NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE.)
7. SUBMITTALS NOT MEETING THE ABOVE REQUIREMENTS WILL NOT BE REVIEWED AND WILL BE RETURNED TO CONTRACTOR MARKED REVISE AND RESUBMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS WHICH MAY RESULT.
8. THE CONTRACTOR SHALL ENGAGE AN PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA TO PROVIDE SHORING DRAWINGS AND CALCULATIONS FOR SUPPORT ELEVATED SLABS AT ELEVATOR SHAFTS AND STAIRS.
9. IN ADDITION TO SUBMITTALS REQUIRED BY THE PROJECT SPECIFICATIONS AND CONSTRUCTION DOCUMENTS, THE FOLLOWING "STRUCTURAL SUBMITTALS" ARE REQUIRED FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD.
   A. METAL ROOF TRUSSES: DESIGN CALCULATIONS AND FABRICATION AND ERECTION DRAWINGS.
   B. CONCRETE WORK: CONCRETE MIX DESIGNS AND REBAR SHOP DRAWINGS.
   C. METAL DECK: DECK SHOP DRAWINGS AND ATTACHMENT DRAWINGS.
   D. STRUCTURAL STEEL: STEEL SHOP DRAWINGS DETAILING MEMBERS AND CONNECTIONS.
   E. JOISTS: JOIST SHOP DRAWINGS DETAILING JOIST SIZE AND CONNECTIONS
   F. LTGA SOFFIT ENGINEERING
10. ALL STRUCTURAL SUBMITTALS SHALL BE PREPARED BY THE SPECIALTY ENGINEER.
11. DRAWINGS PREPARED SOLELY AS A GUIDE FOR ERECTION AND INSTALLATION AND CATALOG INFORMATION WILL NOT REQUIRE AN ENGINEERS SEAL; HOWEVER, THEY SHALL BEAR THE ENGINEERS SIGNATURE AND AN INDICATION THAT THE WORK WAS CHECKED.

STRUCTURAL CONCRETE

1. ALL CAST-IN-PLACE CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318-19 AND ACI 301, EXCEPT AS MODIFIED BY THE PROJECT CONSTRUCTION DOCUMENTS. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 03 30 00.
2. ALL CONCRETE SHALL MEET THE PROJECT SPECIFICATIONS AND SHALL DEVELOP COMPRESSIVE STRENGTHS AS FOLLOWS (28 DAY STRENGTH):
   A. NORMAL WEIGHT CONCRETE (145 PCF)
   B. BEAMS, COLUMNS, ELEVATED SLAB CONCRETE . . . . . 4000 PSI
   C. FOUNDATION & SLABS ON GRADE . . . . . 3500 PSI
   D. ALL OTHER CONCRETE . . . . . 4000 PSI

   *PROVIDE CURRENT (MAX. 1 YEAR OLD) STATISTICAL DATA FOR EACH CONCRETE MIX SUBMITTED IN ACCORDANCE WITH ACI 318-19.

   *ELEVATED CONCRETE SHALL BE LIGHT WEIGHT.
3. SPACING BARS FOR CONCRETE SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI AND MEET THE REQUIREMENTS OF ASTM A-615. FOR PLACEMENT OF REINFORCING CONFORM TO ACI-301, ACI-315, ACI-318, AND CRSI "MANUAL OF STANDARD PRACTICE". ALL REINFORCING SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED, AND FIRMLY TIED IN PLACE WITH BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH THE ABOVE REQUIREMENTS. PROVIDE CLASS "B" LAP SPLICE FOR CONTINUOUS BARS. USE THE FOLLOWING COVER:
   A. CONCRETE COVER REQUIREMENTS FOR REINFORCEMENT, U.N.O.:
      a. CONCRETE CAST AGAINST EARTH. . . . . 3"
      b. CONCRETE POURED IN FORMS BUT EXPOSED TO WEATHER OR EARTH:
         - #5 REINFORCEMENT AND SMALLER . . . . . 1 1/2"
         - REINFORCEMENT LARGER THAN #5 . . . . . 2"
         - WELDED WIRE FABRIC. . 1" FROM TOP OF SLAB
      c. CONCRETE POURED IN FORMS BUT NOT EXPOSED TO WEATHER OR EARTH.
         - #11 REINFORCEMENT AND SMALLER. . . . . 3/4"
4. USE PLAIN, COLD-DRAWN ELECTRICALLY-WELDED STEEL WIRE FABRIC CONFORMING TO ASTM A-185. SUPPLY IN FLAT SHEETS ONLY (NOT ROLLED). LAP SPLICES SHALL BE TWICE THE SPACING OF THE CROSS WIRES PLUS TWO (2) INCHES.
5. NO CONDUIT PLACED IN CONCRETE SLAB SHALL HAVE AN OUTSIDE DIAMETER GREATER THAN 1/3 THE THICKNESS OF THE SLAB. NO CONDUIT SHALL BE EMBED IN A SLAB THAT IS LESS THAN 4" THICK. MINIMUM CLEAR DISTANCE SHALL BE IN ACCORDANCE WITH ACI 318.
6. ALL REINFORCING BARS, ANCHOR BOLTS, DOWELS AND OTHER CONCRETE INSERTS SHALL BE SECURED ADEQUATELY IN POSITION PRIOR TO PLACEMENT OF CONCRETE. CONTRACTOR SHALL USE TEMPLATES TO INSURE ACCURATE PLACEMENT OF ANCHOR BOLTS, DOWELS, ETC.
7. ALL CONCRETE SHALL BE CONSOLIDATED BY USE OF A MECHANICAL VIBRATOR OR OTHER MEANS APPROVED BY THE ENGINEER.
8. CONCRETE SHALL COMPLY WITH ALL THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED. CONCRETE SHALL BE PLACED IN ITS FINAL POSITION WITHIN 90 MINUTES AFTER ADDITION OF BATCH WATER. CONCRETE SHALL BE DISCARDED IF THE FOREGOING ELAPSED TIME IS EXCEEDED.

SHALLOW FOUNDATION REQ'S

1. GEOTECHNICAL REPORT - FOUNDATION DESIGN CRITERIA WAS TAKEN FROM RECOMMENDATIONS SET FORTH IN GEOTECHNICAL REPORT BY NOVA, PROJECT NO.10116-2024070, DATED MARCH 28, 2024. FOUNDATION DESIGN SHALL BE BASED ON A MAXIMUM ALLOWABLE SOIL BEARING CAPACITY OF 2,000 PSF FOR FOOTINGS. RECOMMENDATIONS IN THIS REPORT SHALL BE FOLLOWED. CONSULT SOILS REPORT BY NOVA FOR FOUNDATION PREPARATION AND EXCAVATION INFORMATION.
2. IF BEARING SOIL IS DISTURBED DURING FOUNDATION PREPARATION, THE CONTRACTOR SHALL RECOMPACT TO REQUIRED DENSITY, AS DEFINED BY THE GEOTECHNICAL ENGINEER.
3. ALL WALLS AND COLUMNS SHALL BE CENTERED ON THE FOOTINGS U.N.O.
4. ALL EXCAVATIONS SHALL MEET THE REQUIREMENTS OF OSHA, CONTRACTOR TO EXERCISE CAUTION WHEN EXCAVATING ADJACENT TO EXISTING FOUNDATIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER FROM EXCAVATIONS AND DEWATERING OPERATIONS IN SUCH A WAY AS NOT TO CAUSE INCONVENIENCE TO THE WORK AND DAMAGE TO THE STRUCTURAL ELEMENTS.

CONCRETE MASONRY UNITS (CMU) NOTES

1. ALL MASONRY WORK SHALL CONFORM TO ACI 530.1/ TMS 402/602. SPECIFICATION FOR MASONRY STRUCTURES.
2. CONSTRUCT REINFORCED MASONRY AS NOTED ON THE PLANS AND DETAILS IN ACCORDANCE WITH THE REQUIREMENTS OF MASONRY SPECIFICATION SECTIONS.
3. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM SPECIFICATIONS ASTM C90. THE MINIMUM NET COMPRESSIVE STRENGTH OF MASONRY UNITS SHALL BE 2000 PSI (f'm=2000 PSI FOR MASONRY SYSTEM). PERFORM f'm AND C90 COMPLIANCE BY UNIT TEST METHOD. USE ONLY MASONRY UNITS THAT ARE A MIN. OF 50% SOLID.
4. MORTAR SHALL CONFORM TO ASTM C270. USE TYPE "S" MORTAR WITH 3/8" FULL-BEDDED JOINTS FOR ALL MASONRY UNITS. REMOVE EXCESS MORTAR PROTRUDING INTO CELL CAVITIES THAT ARE TO BE REINFORCED AND GROUTED. ALLOW A MIN. OF 24 HOURS FOR MORTAR TO CURE BEFORE PLACING GROUT.
5. ALL GROUT USED TO FILL REINFORCED MASONRY CAVITIES SHALL CONFORM TO ASTM C-476 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS, TESTED IN ACCORDANCE WITH ASTM C1019. AGGREGATE TO CONFORM TO ASTM C404 FOR COARSE GROUT AND SLUMP OF 8" TO 11". TEST SAMPLES FOR COMPRESSIVE STRENGTH. TEST EVERY 30 YARDS OR EACH DAY'S GROUTING AND AS INDICATED IN THE PROJECT SPECIFICATIONS.
6. PROVIDE HORIZONTAL JOINT REINFORCEMENT IN ALL CMU WALLS, U.N.O. HORIZONTAL JOINT REINFORCING SHALL BE (9 GAUGE SIDE RODS WITH 9 GAUGE CROSS RODS) LADDER TYPE, HOT DIP GALVANIZING AFTER FABRICATION. VERTICAL SPACING OF REINFORCING SHALL BE 16" O.C. MAX. IF REQUIRED, TIES SHALL BE LOCATED WITHIN 8" OF WALL DISCONTINUITIES (MCJ, DOORS, WINDOWS, ETC.) USE PREFABRICATED CORNERS AND TEES AT WALL INTERSECTIONS. OVERLAP DISCONTINUOUS ENDS A MIN. OF 12". HORIZONTAL REINFORCING SHALL CONFORM TO ASTM A-82.
7. ALL REINFORCING STEEL UTILIZED FOR REINFORCING MASONRY SHALL BE ASTM A-615 GRADE 60 REINFORCING STEEL.
8. IN HIGH-LIFT GROUTING USE A MAX. LIFT OF 5'-0" WITH MIN. HALF HOUR MAX. ONE HOUR BETWEEN LIFTS. VIBRATE EACH LIFT AND RECONSOLIDATE PREVIOUS LIFT AFTER PLACING NEXT LIFT.
9. WHERE ANCHOR BOLTS ARE SET IN MASONRY WALL, FILL BLOCK CELLS WITH GROUT FOR BOLTED COURSE, ONE COURSE ABOVE AND TWO COURSES BELOW ANCHOR ELEVATION.
10. USE PRESSURE-TREATED WOOD FOR ALL WOOD IN CONTACT WITH MASONRY.
11. MASONRY WALLS ARE TO BE LATERALLY BRACED DURING CONSTRUCTION IN ACCORDANCE WITH "STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION" BY THE COUNCIL FOR MASONRY WALL BRACING AND THE MASON CONTRACTORS ASSOCIATION OF AMERICA. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL PERMANENT SUPPORTING ELEMENTS OF THE STRUCTURE ARE IN PLACE.
12. CELLS TO BE GROUTED SHALL HAVE A MINIMUM CLEAR DIMENSION OF 2 INCHES AND CLEAR AREA OF 8 SQUARE INCHES FOR 8" CMU. GROUTING SHALL BE DONE IN A CONTINUOUS OPERATION IN LIFTS AS DEFINED PREVIOUSLY. THE GROUT SHALL BE CONSOLIDATED BETWEEN LIFTS BY MECHANICAL VIBRATION. GROUT TO STOP MIN. 1" BELOW JOINT IN BLOCK TO FORM A KEY IF SUBSEQUENT POURS ARE TO CONTINUE UPWARDS.
13. PROVIDE HORIZONTAL BOND BEAMS FOR ALL CMU AT 4'-8" O.C., VERTICALLY (MAX), U.N.O. IN 8" & 12" CMU WALLS, REINF. W/ (2) #5 CONT.
14. CMU CONTROL JOINTS ARE NOT TO EXCEED 24'-0" U.N.O. & THE FOLLOWING CRITERIA:
   A. AT CHANGES IN WALL HEIGHT OR THICKNESS
   B. NEAR WALL INTERSECTIONS
   C. AT POINTS OF STRESS CONCENTRATION
   D. AT CONTROL JOINTS IN FOUNDATION WALLS
   E. WHERE A SLAB JOINT PASSES BENEATH A WALL.
15. THE CONTROL JOINTS SHALL BE LOCATED A MINIMUM OF 2'-0" FROM DOOR OR WINDOW OPENINGS SO THAT CONTROL JOINT DOES NOT INTERFERE WITH LINTEL REINFORCEMENT. THE HORIZONTAL JOINT REINFORCING SHALL BE TERMINATED 2" FROM EACH SIDE OF JOINT. ALL BOND BEAM REINFORCING SHALL CONTINUE THRU THE CMU JOINT.

SLAB ON GRADE NOTES

1. ENSURE THAT REINFORCEMENT IS LOCATED IN SLAB CORRECTLY BY CHAIRING REINFORCING ADEQUATELY DURING CONCRETE PLACEMENT.
2. USE 15 MIL. POLYETHYLENE (VAPOR BARRIER) SHEETING BETWEEN COMPACTED SOIL AND CONCRETE SLAB MIN., U.N.O. PLEASE NOTE THAT ARCHITECT WILL PROVIDE FINAL VAPOR BARRIER SPECIFICATIONS AND THIS MAY INCLUDE THICKER VAPOR BARRIERS AS REQUIRED. 10 MIL SHALL BE THE MINIMUM SPECIFIED IF NOT SPECIFIED BY THE ARCHITECT.
3. PROVIDE POROUS DRAINAGE LAYER UNDER INTERIOR PORTIONS OF SLAB ON GRADE. DRAINAGE LAYER SHALL CONSIST OF CLEAN, FREE-DRAINAGE PEA GRAVEL, CRUSHED STONE, OR COARSE SAND. THIS DRAINAGE LAYER SHALL CONSIST OF NATURAL SAND WITH A MAXIMUM 50% PASSING THE NO. 50 SIEVE AND 5% PASSING A NO. 200 SIEVE AS MINIMUM. SEE PROJECT GEOTECHNICAL REPORT FOR GUIDELINES. THE CONTRACTOR SHALL COORDINATE THESE REQUIREMENTS WITH THE GEOTECHNICAL ENGINEER OF RECORD PRIOR TO FOUNDATION PREPARATION.
4. PLACE CRACK CONTROL JOINTS USING A MAXIMUM 2:1 LENGTH TO WIDTH RATIO WITH 20'-0" MAXIMUM SPACING, UNLESS LOCATED ON PLANS. PLACE MANDATORY CONSTRUCTION JOINTS AS SHOWN.

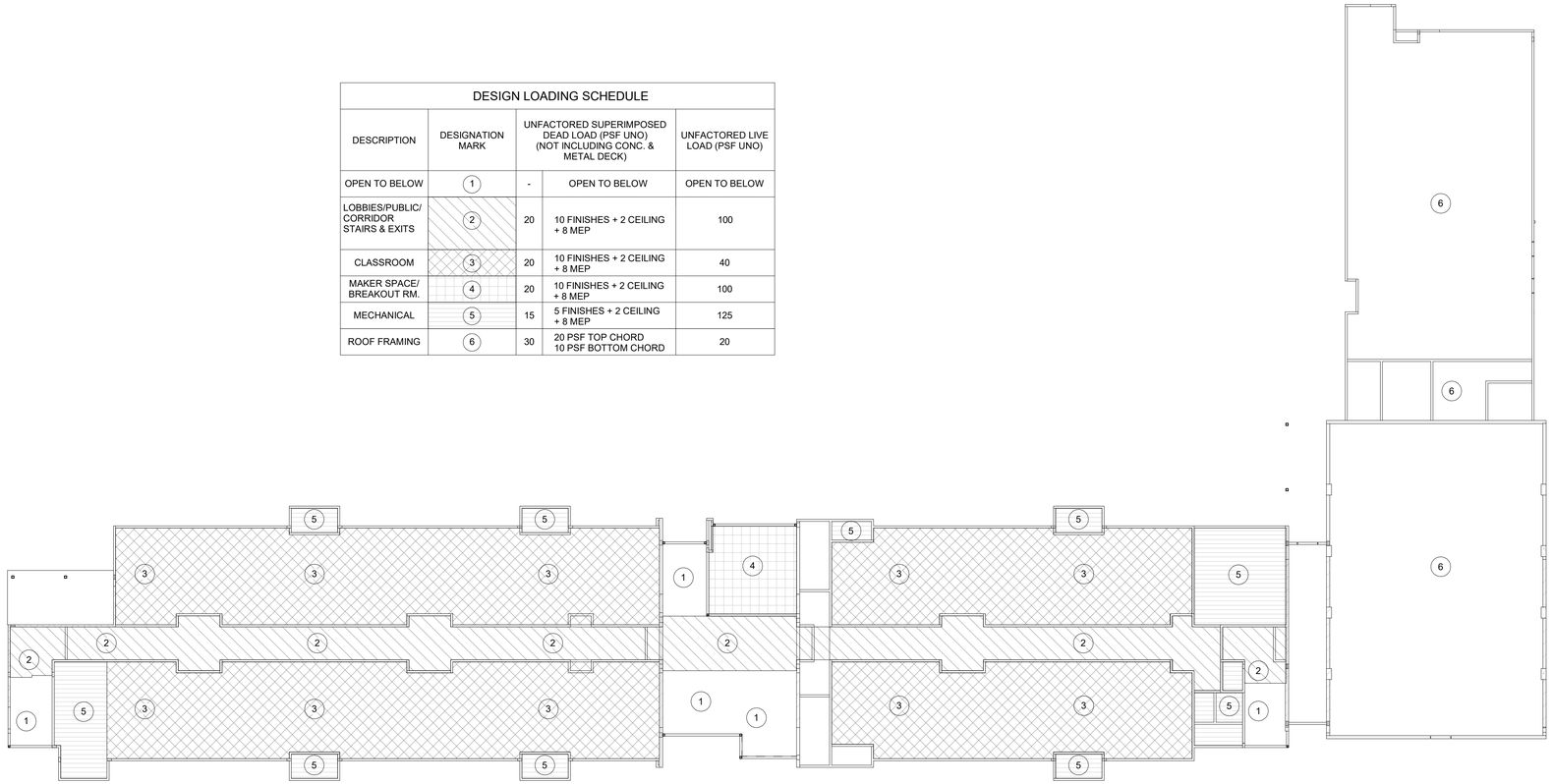
STRUCTURAL STEEL NOTES

1. REFERENCE STANDARDS: STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC STEEL CONSTRUCTION MANUAL AND THE AISC CODE OF STANDARD PRACTICE (REFERENCED EDITION) WITH EXCEPTION NOTED IN THE PROJECT SPECIFICATIONS.
2. OSHA REQUIREMENTS:
   A. THE CONTRACTOR SHALL PROVIDE ADDITIONAL ANCHORS, BOLTS, STABILIZERS, STIFFENERS, BRIDGING, BRACING, ETC. AS NECESSARY TO COMPLY WITH CURRENT OSHA REGULATIONS.
   B. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING TO INSURE A STABLE STRUCTURE DURING THE INSTALLATION OF STRUCTURAL STEEL MEMBERS.
3. MATERIAL REQUIREMENTS OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING DESIGNATIONS U.N.O.
   A. WIDE FLANGE SHAPES . . . . . ASTM 992, GRADE 50
   B. ANGLES, CHANNELS, AND PLATES . . . ASTM A36 OR ASTM A572, GRADE 50
   C. HSS SECTIONS . . . . . ASTM A500, GRADE "B" (Fy = 46KSI)
   D. HIGH STRENGTH BOLTS . . . . . ASTM A325 OR ASTM A490
   E. ANCHOR BOLTS . . . . . ASTM F1554, GRADE 36 (WELDABLE)
   F. WELDING ELECTRODES . . . . . AWS D1.1 E70
4. USE STRUCTURAL STEEL THAT IS FULLY WELDABLE INCLUDING WHEN WELDING BETWEEN DIFFERENT GRADES OF STEEL. SHOP WELDING SHALL BE UTILIZED IN LIEU OF FIELD WELDING WHEN OBTAINABLE.
5. ALL SHOP AND FIELD WELDING SHALL CONFORM TO THE STRUCTURAL WELDING CODE AWS D1.1, LATEST EDITION, PUBLISHED BY THE AMERICAN WELDING SOCIETY (AWS). USE ELECTRODES CONFORMING TO AWS D1.1, E70 SERIES, U.N.O. SHOW ALL SHOP WELDS ON THE FABRICATION DRAWINGS AND ALL FIELD WELDS ON THE ERECTION DRAWINGS. WELD SIZES AND LENGTHS ARE SHOWN ON THE DRAWINGS. WELD SIZES ARE THE NET EFFECTIVE SIZE REQUIRED. INCREASE THE WIDTH OF THE WELD IF A GAP EXISTS AT FAYING SURFACES. MINIMUM FILLET WELD SIZE IS 3/16".
6. ALL SHOP AND FIELD WELDERS, WELDING OPERATORS, AND TACKERS SHALL BE CERTIFIED ACCORDING TO AWS PROCEDURES AND HAVE EVIDENCE OF PASSING THE AWS STANDARD QUALIFICATION TESTS. CERTIFICATION MUST BE CURRENT.
7. ALL JOINT WELDING PROCEDURES TO BE USED SHALL BE PREPARED BY THE FABRICATOR OR CONTRACTOR AS WRITTEN PROCEDURE SPECIFICATIONS AND SUBMITTED TO THE ARCHITECT/ENGINEER FOR THEIR RECORD. ALL JOINT WELDING PROCEDURES SHALL BE QUALIFIED PRIOR TO USE ACCORDING TO AWS PROCEDURES.
8. A325 BOLTS:
   A. A325 BOLTS SHALL CONFORM TO ASTM A 325 TYPE 1, HIGH STRENGTH BOLTS FOR STRUCTURAL STEEL JOINTS. DO NOT USE TYPE 2 BOLTS.
   B. PROVIDE HARDENED WASHERS CONFORMING TO ASTM F 436. PLACE HARDENED WASHERS UNDER PART BEING TURNED.
   C. LOAD INDICATOR WASHERS OR TENSION CONTROLLED BOLTS SHALL BE USED ON ALL A325 BOLTS.
   D. ALL BOLTS SHALL BE NEW AND DOMESTICALLY MANUFACTURED. DO NOT REUSE BOLTS. USE ONLY NON-GALVANIZED NUTS AND BOLTS THAT ARE CLEAN, RUST-FREE, AND WELL LUBRICATED. BOLTS AND NUTS SHALL BE WAX DIPPED BY THE BOLT SUPPLIER OR LUBRICATED WITH JOHNSON'S STICK WAX 140.
9. FIELD MODIFICATION OF STRUCTURAL STEEL SHALL NOT BE CUT IN FIELD OR MODIFIED WITHOUT PRIOR APPROVAL OF THE ENGINEER. SPLICING STEEL MEMBERS IS NOT PERMITTED EXCEPT WHERE EXPLICITLY SHOWN ON THE STRUCTURAL DRAWINGS OR WHERE APPROVED BY THE ENGINEER OF RECORD. SPLICES SHALL NOT OCCUR AT LOCATIONS OF MAXIMUM STRESS AND SHALL DEVELOP THE FULL CAPACITY OF THE MEMBER. SPLICE DETAILS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO BEGINNING WORK.
10. WHEN HOLES ARE REQUIRED IN METAL SURFACE, THEY SHALL BE CUT, DRILLED, OR PUNCHED HOLES PERPENDICULAR TO METAL SURFACE. IN NO INSTANCE IS IT ADEQUATE TO USE A FLAME TO CUT OR ENLARGE HOLES IN STRUCTURAL STEEL MEMBERS.
11. THE STEEL SUPPLIER SHALL PROVIDE ALL MISCELLANEOUS STRUCTURAL STEEL ITEMS NECESSARY TO FULFILL THE INTENT OF THE STRUCTURAL DRAWINGS WHETHER OR NOT THE ITEMS ARE SHOWN ON THE STRUCTURAL DRAWINGS. SUCH ITEMS MAY INCLUDE BUT ARE NOT LIMITED TO EDGE ANGLES, CLOSURE PLATES, AND DECK SUPPORT FRAMING.
12. ALL EXTERIOR EXPOSED STEEL SHALL BE HOT DIP GALVANIZED.
13. ALL STRUCTURAL STEEL SHALL BE PRIME PAINTED WITH A MINIMUM DRY FILM THICKNESS OF 2.0 MILS.
14. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL MISCELLANEOUS STEEL THAT WILL BE REQUIRED.

LIGHT GAUGE PRE-ENGINEERED TRUSS SYSTEM

1. ALL TRUSSES SHALL BE G90 COATED AND BE DESIGNED BY THE TRUSS SYSTEM ENGINEER. THE SYSTEM SHALL BE DESIGNED AND FABRICATED BY MANUFACTURER TO FUNCTION AS A SYSTEM INCLUDING ALL TEMPORARY AND PERMANENT BRACING REQUIRED AND SPECIFIED.
2. TRUSSES SHALL BE FABRICATED WITH STANDARD CAMBER, AND ERECTED AND BRACED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. TRUSS SYSTEM ENGINEER SHALL SUBMIT ERECTION AND SHOP DRAWINGS SHOWING LOCATIONS, BRIDGING, CONNECTIONS AND DETAILS, SPECIAL AND EXTENDED ENDS. ACCESSORIES REQUIRED FOR THE INSTALLATION OF TRUSS SYSTEM. THE SPECIALTY ENGINEER SHALL INCLUDE COMPONENT DETAILS AND LAYOUT DRAWINGS SHOWING DESIGN LOADING, MEMBER SIZES, BRACING, ANCHORAGE, CONNECTIONS, AND OTHER NECESSARY FABRICATION AND ERECTION INFORMATION.
4. **TOP CHORDS SHALL BE 6-INCH, MIN. 16GA MEMBERS OF THE SHAPE REQUIRED OR 8", MIN. 16GA. MEMBERS FOR LARGER OVERHANG CONDITIONS, SEE PLAN.** THE TOP CHORD SHALL BE OF THE CONFIGURATIONS INDICATED ON THE DRAWINGS. ARRANGEMENT OF WEB MEMBERS TO BE AT THE DISCRETION OF THE DESIGN ENGINEER. AT TRUSS JOINTS, CENTERLINES OF MEMBERS SHALL INTERSECT AT A COMMON POINT OR ECCENTRICITIES SHALL BE CONSIDERED IN THE DESIGN.
5. DIAGONAL BRIDGING SHALL BE DESIGNED FOR L/R LESS THAN OR EQUAL TO 200.
6. TRUSS BRIDGING SHALL NOT BE USED TO SUPPORT EQUIPMENT, PIPING, CONDUITS, DUCTWORK, ETC.
7.

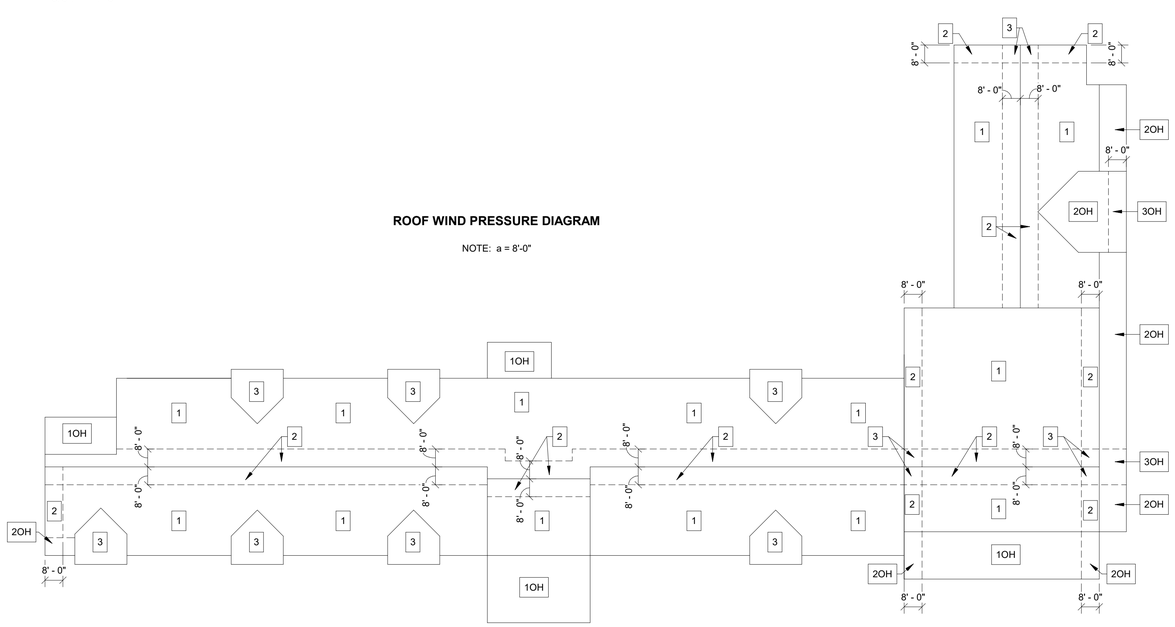
DESIGN LOADING SCHEDULE				
DESCRIPTION	DESIGNATION MARK	UNFACTORED SUPERIMPOSED DEAD LOAD (PSF UNO) (NOT INCLUDING CONC. & METAL DECK)		UNFACTORED LIVE LOAD (PSF UNO)
OPEN TO BELOW	1	-	OPEN TO BELOW	OPEN TO BELOW
LOBBIES/PUBLIC/ CORRIDOR STAIRS & EXITS	2	20	10 FINISHES + 2 CEILING + 8 MEP	100
CLASSROOM	3	20	10 FINISHES + 2 CEILING + 8 MEP	40
MAKER SPACE/ BREAKOUT RM.	4	20	10 FINISHES + 2 CEILING + 8 MEP	100
MECHANICAL	5	15	5 FINISHES + 2 CEILING + 8 MEP	125
ROOF FRAMING	6	30	20 PSF TOP CHORD 10 PSF BOTTOM CHORD	20



1 OVERALL 2ND FLOOR LOADING PLAN
3/64" = 1'-0"

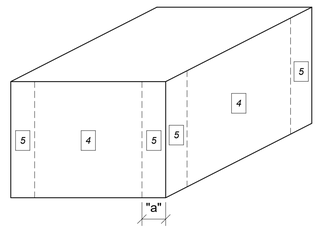
ROOF WIND PRESSURE DIAGRAM

NOTE: a = 8'-0"



WALL WIND PRESSURE DIAGRAM

NOTE: a=8'-0"



COMPONENTS AND CLADDING WIND

NOTE: INTERNAL PRESSURE COEFFICIENT = +/-0.18

ZONE (SEE FIGURE)	WIND PRESSURE (+) / SUCTION (-) IN POUNDS PER SF EFFECTIVE WIND AREA (FEET SQUARE)							
	10		20		50		100	
	+	-	+	-	+	-	+	-
ROOF ZONE 1	47.1	-131.7	42.9	-113.2	37.4	-88.8	33.2	-70.3
ROOF ZONE 2		-173.9		-150.2		-118.8		-95.0
ROOF ZONE 3		-228.3		-195.6		-152.3		-119.6
ROOF ZONE 1-OH		-154.2		-154.2		-133.3		-117.6
ROOF ZONE 2-OH		-215.9		-188.1		-151.3		-123.4
ROOF ZONE 3-OH		-296.2		-249.7		-188.3		-142.0
WALL ZONE 4	71.3	-77.3	68.1	-74.1	63.8	-69.9	60.6	-66.6
WALL ZONE 5		-95.4		-89.0		-80.5		-74.1

NOTES:
1. POSITIVE SIGN INDICATES THAT THE PRESSURE IS ACTING TOWARDS THE SURFACE. NEGATIVE SIGN INDICATES THAT THE PRESSURE IS ACTING AWAY FROM THE STRUCTURE.
2. THE WIND LOADS SHOWN HAVE BEEN CALCULATED PER FLORIDA BUILDING CODE 2023 EDITION W/ HVHZ AND ASCE 7-22. LINEAR INTERPOLATION MAY BE APPLIED FOR LOADING AREAS BETWEEN THE PROVIDED. LOADS SHOWN ARE ULTIMATE LOADS AND MAY BE FACTORED BY 0.6 WHEN APPLICABLE TO REDUCE TO ASD LOADING PRESSURES. FOR UPLIFT CALCULATIONS THE SPECIALTY ENGINEER MAY UTILIZE AN UNFACTORED DEAD LOAD OF 5 PSF.

MAIN WIND FORCE RESISTING WIND LOAD

INTERNAL PRESSURE COEFFICIENT = +/-0.18

MAIN WIND FORCE RESISTING SYSTEM PRESSURES		
WIND VELOCITY	ROOF ENCLOSED	WALL ENCLOSED
(MPH)	(PSF)	(PSF)
167	-58.1	65.1

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

Jacobs | TITAN TECHNOLOGIES

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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

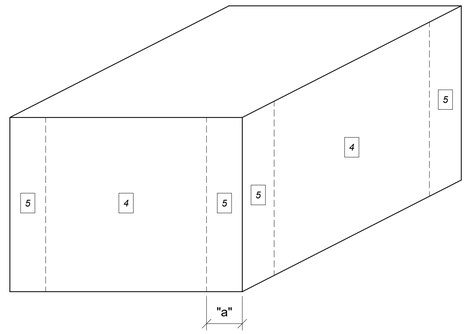
Drawing Title:
WIND PRESSURES & LOADING

Date: 10 OCTOBER 2024

Designed By:	DJM	Drawing No.:
Drawn By:	WEH	S-002
Checked By:	DJM	

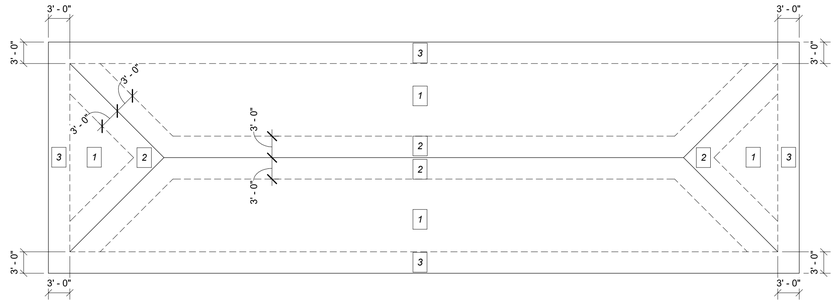
WALL WIND PRESSURE DIAGRAM (LOUNGE)

NOTE: a=3'-0"



ROOF WIND PRESSURE DIAGRAM (LOUNGE)

NOTE: a = 3'-0"



COMPONENTS AND CLADDING WIND (LOUNGE)

NOTE: a = 3'-0" INTERNAL PRESSURE COEFFICIENT = +/-0.18

ZONE (SEE FIGURE)	WIND PRESSURE (+) / SUCTION (-) IN POUNDS PER SF EFFECTIVE WIND AREA (FEET SQUARE)							
	10		20		50		100	
	+	-	+	-	+	-	+	-
ROOF ZONE 1	45.4	-102	39.2	-90.2	31.0	-74.4	24.8	-62.5
ROOF ZONE 2		-133.1		-120.0		-102.6		-89.5
ROOF ZONE 3		-95.8		-95.8		-95.8		-95.8
WALL ZONE 4	60.9	-66.0	58.1	-63.3	54.5	-59.7	51.8	-56.9
WALL ZONE 5		-81.5		-76.0		-68.8		-63.3

NOTES:

1. POSITIVE SIGN INDICATES THAT THE PRESSURE IS ACTING TOWARDS THE SURFACE. NEGATIVE SIGN INDICATES THAT THE PRESSURE IS ACTING AWAY FROM THE STRUCTURE.

2. THE WIND LOADS SHOWN HAVE BEEN CALCULATED PER FLORIDA BUILDING CODE 2023 EDITION W/ HVHZ AND ASCE 7-22. LINEAR INTERPOLATION MAY BE APPLIED FOR LOADING AREAS BETWEEN THE PROVIDED. LOADS SHOWN ARE ULTIMATE LOADS AND MAY BE FACTORED BY 0.6 WHEN APPLICABLE TO REDUCE TO ASD LOADING PRESSURES.

MAIN WIND FORCE RESISTING WIND LOAD (LOUNGE)

INTERNAL PRESSURE COEFFICIENT = +/-0.18

MAIN WIND FORCE RESISTING SYSTEM PRESSURES		
WIND VELOCITY	ROOF ENCLOSED	WALL ENCLOSED
(MPH)	(PSF)	(PSF)
167	-48.8	57.0

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100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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Drawing Title:
WIND PRESSURES

Date: 10 OCTOBER 2024

Designed By: DJM
Drawn By: WEH
Checked By: DJM

Drawing No.: S-002A

A. STRUCTURAL - STEEL – WELDING SECTION

STEEL INSPECTION PRIOR TO WELDING – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC 1705.2.1, AISC 360-10: Table C-N5.4-1		
TASK	INSPECTION TYPE	DESCRIPTION
1. Verify that the welding procedures specification (WPS) is available	**PERFORM**	
2. Verify manufacturer certifications for welding consumables are available	**PERFORM**	
3. Verify material identification	**PERFORM**	Type and grade.
4. Welder Identification System	**PERFORM**	The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress...
5. Fit-up of groove welds (including joint geometry)	OBSERVE	☐ Joint preparation ☐ Dimensions (alignment, root opening, root face, bevel) ☐ Cleanliness (condition of steel surfaces) ☐ Tacking (tack weld quality and location) ☐ Backing type and fit (if applicable)
6. Configuration and finish of access holes	OBSERVE	
7. Fit-up of fillet welds	OBSERVE	☐ Dimensions (alignment, gaps at root) ☐ Cleanliness (condition of steel surfaces) ☐ Tacking (tack weld quality and location)
STEEL INSPECTION DURING WELDING – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC 1705.2.1, AISC 360-10: Table C-N5.4-2		
TASK	INSPECTION TYPE	DESCRIPTION
8. Use of qualified welders	**PERFORM**	Welding by welders, welding operators, and tack welders who are qualified in conformance with requirements.
9. Control and handling of welding consumables	OBSERVE	☐ Packaging ☐ Electrode atmospheric exposure control
10. No welding over cracked tack welds	OBSERVE	
11. Environmental conditions	OBSERVE	☐ Wind speed within limits ☐ Precipitation and temperature
12. Welding Procedures Specification followed	OBSERVE	☐ Settings on welding equipment ☐ Travel speed ☐ Selected welding materials ☐ Shielding gas type/flow rate ☐ Preheat applied ☐ Interpass temperature maintained (min./max.) ☐ Proper position (F, V, H, OH)...
13. Welding techniques	OBSERVE	☐ Interpass and final cleaning ☐ Each pass within profile limitations ☐ Each pass meets quality requirements
14. Welds cleaned	OBSERVE	
15. Size, length, and location of all welds	**PERFORM**	Size, length, and location of all welds conform to the requirements of the detail drawings.
16. Welds meet visual acceptance criteria	**PERFORM AND DOCUMENT**	☐ Crack prohibition ☐ Weld/base-metal fusion ☐ Crater cross section ☐ Weld profiles ☐ Weld size ☐ Undercut...
17. Arc strikes	**PERFORM**	
18. k-area	**PERFORM**	When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks.
19. Backing removed, weld tabs removed and finished, and fillet welds added where...	**PERFORM**	
20. Repair activities	**PERFORM AND DOCUMENT**	
21. Document acceptance or rejection of welded joint or member	**PERFORM**	

B. STRUCTURAL - STEEL – BOLTING SECTION

STEEL INSPECTION TASKS PRIOR TO BOLTING – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC 1705.2.1, AISC 360-10: Table C-N5.6-1		
TASK	INSPECTION...	DESCRIPTION
1. Manufacture's certifications available for fastener materials	**PERFORM**	
2. Fasteners marked in accordance with ASTM requirements	OBSERVE	
3. Proper fasteners selected for joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	OBSERVE	
4. Proper bolting procedure selected for joint detail	OBSERVE	
5. Connecting elements, including appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	OBSERVE	
6. Proper storage provided for bolts, nuts, washers, and other fastener components	OBSERVE	
STEEL INSPECTION TASKS DURING BOLTING – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC 1705.2.1, AISC 360-10: Table C-N5.6-2		
TASK	INSPECTION...	DESCRIPTION
7. Fastener assemblies of suitable condition, placed in all holes and washers (if required) are positioned as required	OBSERVE	
8. Joint brought to the snug-tight condition prior to pretensioning operation	OBSERVE	
9. Fastener component not turned by the wrench prevented from rotating	OBSERVE	
10. Bolts are pretensioned in accordance with RCSC Specification, progressing systematically from the most rigid point toward the free edges	OBSERVE	
STEEL INSPECTION TASKS AFTER BOLTING – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC 1705.2.1, AISC 360-10: Table C-N5.6-3		
TASK	INSPECTION...	DESCRIPTION
11. Document acceptance or rejection of all bolted connections	**DOCUMENT**	

C. STRUCTURAL - STEEL - NON DESTRUCTIVE TESTING SECTION

NONDESTRUCTIVE TESTING OF WELDED JOINTS – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC 1705.2.1, AISC 360-10: Section N5.5		
TASK	INSPECTION TYPE	DESCRIPTION
1. Use of qualified nondestructive testing personnel	**PERFORM**	Visual weld inspection and nondestructive testing (NDT) shall be conducted by personnel qualified in accordance with AWS D1.8 clause 7.2
2. CJP groove welds	OBSERVE	NOTE: Dye penetrant testing (DT) and ultrasonic testing (UT) shall be performed on 20% of CJP groove welds for materials greater than 5/16" (8mm) thick. Testing rate must be increased to 100% if greater than 5% of welds tested have unacceptable defects.
3. Welded joints subject to fatigue	OBSERVE	Dye penetrant testing (DT) and Ultrasonic testing (UT) shall be performed on 100% of welded joints identified on contract drawings as being subject to fatigue.
4. Weld tab removal sites	OBSERVE	At the end of welds where weld tabs have been removed, magnetic particle testing shall be performed on the same beam-to-column joints receiving UT

D. STRUCTURAL - STEEL – AISC 341 REQUIREMENTS (SEISMIC PROVISIONS) SECTION

NONDESTRUCTIVE TESTING OF WELDED JOINTS – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC 1705.2.1, AISC 341-10: Section J6.2		
TASK	INSPECTION TYPE	DESCRIPTION
[NOTE: DOR may uncheck this section for projects NOT designed in accordance with AISC 341 (Seismic Provisions) or for projects designed according to AISC 341, but using an R value equal to 3]		
5. CJP groove welds	OBSERVE	Dye penetrant testing (DT) and ultrasonic testing (UT) shall be performed on 100% of CJP groove welds for materials greater than 5/16" thick (8mm).
6. Beam cope and access hole.	OBSERVE	At welded splices and connections, thermally cut surfaces of beam copes and access holes shall be tested using magnetic particle testing (MT) or dye penetrant testing (DT), when the flange thickness exceeds 1 1/2 in. for rolled shapes, or when the web thickness exceeds 1 1/2 in. for built-up shapes.
7. K-area NDT (AISC 341)	**PERFORM**	Where welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, the web shall be tested for cracks using magnetic particle testing (MT). The MT inspection area shall include the k-area base metal within 3-inches of the weld. The MT shall be performed no sooner than 48 hours following completion of the welding.
8. Placement of reinforcing or contouring fillet welds	**DOCUMENT**	

E. STRUCTURAL - STEEL - OTHER INSPECTIONS

OTHER STEEL INSPECTIONS – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC 1705.2.1, AISC 341-10: Tables J8-1 & J10-1		
TASK	INSPECTION TYPE	DESCRIPTION
1. Anchor rods and other embedments supporting structural steel	**PERFORM**	Verify the diameter, grade, type, and length of the anchor rod or embedded item, and the extent or depth of embedment prior to placement of concrete.
2. Fabricated steel or erected steel frame	OBSERVE	Verify compliance with the details shown on the construction documents, such as braces, stiffeners, member locations and proper application of joint details at each connection.
3. Reduced beam sections (RBS) where/if occurs	**DOCUMENT**	• Contour and finish • Dimensional tolerances
4. Protected zones	**DOCUMENT**	No holes or unapproved attachments made by fabricator or erector

F. STRUCTURAL - COLD-FORMED METAL DECK - PLACEMENT SECTION

METAL DECK INSPECTION PRIOR TO DECK PLACEMENT – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.1		
TASK	INSPECTION TYPE	DESCRIPTION
1. Verify compliance of materials (deck and all deck accessories) with construction documents, including profiles, material properties, and base metal thickness	**PERFORM**	
2. Document acceptance or rejection of deck and deck accessories	**DOCUMENT**	
METAL DECK INSPECTION DURING DECK PLACEMENT – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.2		
TASK	INSPECTION TYPE	DESCRIPTION
3. Verify compliance of deck and all deck accessories installation with construction documents	**PERFORM**	
4. Verify deck materials are represented by the mill certifications that comply with the construction documents	**PERFORM**	
5. Document acceptance or rejection of installation of deck and deck accessories	**DOCUMENT**	
METAL DECK INSPECTION AFTER DECK PLACEMENT – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.3		
TASK	INSPECTION TYPE	DESCRIPTION
6. Welding procedure specification (WPS) available	**PERFORM**	
7. Manufactures certifications for welding consumables available	OBSERVE	
8. Material identification (type/grade)	OBSERVE	
9. Check welding equipment	OBSERVE	

G. STRUCTURAL - COLD-FORMED METAL DECK – FASTENING SECTION

METAL DECK INSPECTION BEFORE MECHANICAL FASTENING – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.6		
TASK	INSPECTION TYPE	DESCRIPTION
1. Manufacturer installation instructions available for mechanical fasteners	OBSERVE	
2. Proper tools available for fastener installation	OBSERVE	
METAL DECK INSPECTION DURING MECHANICAL FASTENING – VERIFY THE FOLLOWING ARE IN COMPLIANCE...		
TASK	INSPECTION TYPE	DESCRIPTION
3. Fasteners are positioned as required	OBSERVE	
4. Fasteners are installed in accordance with manufacturer's instructions	OBSERVE	
METAL DECK INSPECTION AFTER MECHANICAL FASTENING – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.8		
TASK	INSPECTION TYPE	DESCRIPTION
5. Check spacing, type, and installation of support fasteners	**PERFORM**	
6. Check spacing, type, and installation of sidelap fasteners	**PERFORM**	
7. Check spacing, type, and installation of perimeter fasteners	**PERFORM**	
8. Verify repair activities	**PERFORM**	
9. Document acceptance or rejection of mechanical fasteners	**DOCUMENT**	

H. STRUCTURAL - LIGHT GAUGE STEEL FRAMING

LIGHT GAUGE STEEL CONSTRUCTION AND CONNECTIONS – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC 1705.2.2, 1705.11.2, 1705.11.3, UFC 4 023 03		
TASK	INSPECTION TYPE	DESCRIPTION
1. Soffit framing	**OBSERVE**	Verify that framing has been installed per the submittal package.
2. Welded connections (seismic and/or wind resisting system)	OBSERVE	Visually inspect all welds composing part of the main wind or seismic force resisting system, including shearwalls, braces, collectors (drag struts), and hold-downs.
3. Connections (seismic and/or wind resisting system)	OBSERVE	Visually inspect all screw attachment, bolting, anchoring and other fastening of components within the main wind or seismic force resisting system, including roof deck, roof framing, exterior wall covering, wall to roof/floor connections, braces, collectors (drag struts) and hold-downs.

I. STRUCTURAL - OPEN-WEB STEEL JOISTS SECTION

OPEN-WEB STEEL JOISTS AND JOIST GIRDERS – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC TABLE 1705.2.3		
TASK	INSPECTION TYPE	DESCRIPTION
1. Installation of open-web steel joists and joist girders	OBSERVE	• End connections – welded or bolted • Bridging – horizontal and diagonal

J. STRUCTURAL - CONCRETE CONSTRUCTION

CONCRETE CONSTRUCTION, INCLUDING COMPOSITE DECK – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC TABLE 1705.3 (ACI 318 REFERENCES NOTED IN IBC TABLE)		
TASK	INSPECTION TYPE	DESCRIPTION
13. Inspect formwork for shape, location and dimensions of the concrete member being formed.	OBSERVE	

L. STRUCTURAL - CONCRETE CONSTRUCTION SECTION

CONCRETE CONSTRUCTION, INCLUDING COMPOSITE DECK – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC TABLE 1705.3 (ACI 318 REFERENCES NOTED IN IBC TABLE)		
TASK	INSPECTION TYPE	DESCRIPTION
1. Inspect reinforcement and verify placement.	**CONTINUOUS AND DOCUMENT**	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and unacceptable rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.
2. Cast in place anchors and post installed drilled anchors (downward inclined)	OBSERVE	Verify prior to placing concrete that cast in place anchors and post installed drilled anchors have proper embedment, spacing and edge distance.
3. Post-installed adhesive anchors in horizontal or upward inclined orientations	**CONTINUOUS AND DOCUMENT**	• Inspect as required per approved ICC-ES report • Verify that installer is certified for installation of horizontal and overhead installation applications • Inspect proof loading as required by the...
4. Verify use of required mix design	OBSERVE	Verify that all mixes used comply with the approved construction documents
5. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	**CONTINUOUS**	At the time fresh concrete is sampled to fabricate specimens for strength test verify these tests are performed by qualified technicians.
6. Inspect concrete placement for proper application techniques	**CONTINUOUS**	Verify proper application techniques are used during concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.
7. Verify maintenance of specified curing temperature and technique	OBSERVE	Inspect curing, cold weather protection, and hot weather protection procedures.

L. STRUCTURAL - MASONRY CONSTRUCTION SECTION (ALL RISK CATEGORIES)

MASONRY CONSTRUCTION – VERIFY THE FOLLOWING ARE IN COMPLIANCE AT START OF CONSTRUCTION IBC 1705.4 (ACI 530-13 TABLE 3.1.2 & 3.1.3)		
TASK	INSPECTION TYPE	DESCRIPTION
1. Compliance with approved submittals prior to start	OBSERVE	
2. Proportions of site-mixed mortar.	OBSERVE	
3. Grade and type of reinforcement, anchor bolts, and prestressing tendons and anchorages	OBSERVE	
4. Prestressing technique	OBSERVE	
5. Properties of thin bed mortar for AAC masonry	OBSERVE	
MASONRY CONSTRUCTION – VERIFY THE FOLLOWING ARE IN COMPLIANCE PRIOR TO GROUTING IBC 1705.4 (ACI 530-13 TABLE 3.1.2 & 3.1.3)		
TASK	INSPECTION TYPE	DESCRIPTION
6. Grout space	**CONTINUOUS**	
7. Proportions of site-prepared grout and prestressing grout for bonded tendons	OBSERVE	
8. Proportions of site-mixed grout and prestressing grout for bonded tendons	OBSERVE	
9. Placement of masonry units and mortar joints	OBSERVE	
10. Welding of reinforcement	**CONTINUOUS**	
MASONRY CONSTRUCTION – VERIFY THE FOLLOWING ARE IN COMPLIANCE DURING CONSTRUCTION IBC 1705.4 (ACI 530-13 TABLE 3.1.2 & 3.1.3)		
TASK	INSPECTION TYPE	DESCRIPTION
11. Size and location of structural elements is in compliance	OBSERVE	
12. Preparation, construction, and protection of masonry during cold weather (temperature below 40oF (4.4oc) or hot weather (temp above 90oF (32.2oC))	OBSERVE	
13. Application and measurement of prestressing force	**CONTINUOUS**	
14. Placement of grout and prestressing grout for bonded tendons	**CONTINUOUS**	
16. Observe preparation of grout specimens, mortar specimens, and/or prisms	OBSERVE	
17. Type, size and placement of reinforcement, connectors, anchor bolts and prestressing tendons and anchorages, including details of anchorage of masonry to structural members, frames, or other...	**CONTINUOUS**	

M. GEOTECHNICAL - SOILS INSPECTION SECTION

SOILS INSPECTION – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC 1705.6		
TASK	INSPECTION TYPE	DESCRIPTION
1. Materials below shallow foundations are adequate to achieve the design bearing...	OBSERVE	
2. Excavations are extended to proper depth and have reached proper material	OBSERVE	
3. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	**CONTINUOUS**	
4. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	OBSERVE	During fill placement, the special inspector shall verify that proper materials and procedures are used in accordance with the provisions of the approved geotechnical report

OBSERVE: OBSERVE THESE SPECIAL INSPECTIONS ITEMS ON A RANDOM DAILY BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

CONTINUOUS: SPECIAL INSPECTIONS IS THE CONSTANT MONITORING OF SPECIFIC TASKS BY A SPECIAL INSPECTOR. THESE INSPECTIONS MUST BE CARRIED OUT CONTINUOUSLY OVER THE DURATION OF THE PARTICULAR TASKS.

PERIODIC: SPECIAL INSPECTIONS IS SPECIAL INSPECTIONS BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.

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Heffernan Holland Morgan Architecture, P.A.
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Florida Lic. No. C001942

Revision:

Date:	*By:*	*Description:*

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
SPECIAL INSPECTION REQ'S

Date: 10 OCTOBER 2024

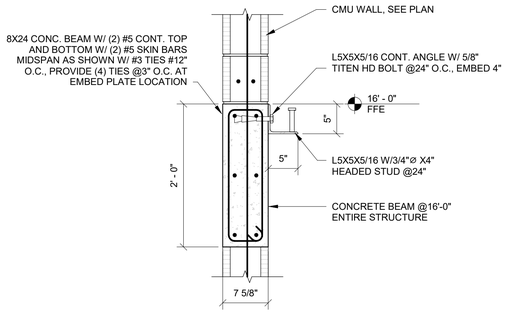
Designed By:	DJM	*Drawing No.:*
Drawn By:	WEH	S-003
Checked By:	DJM	

Donald J McCarthy

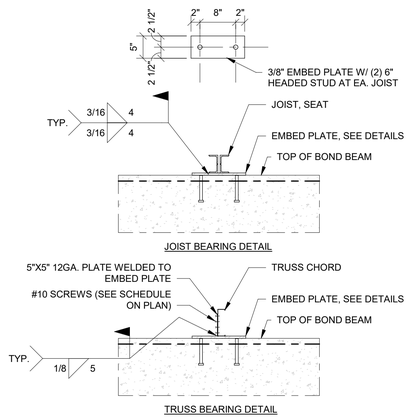
100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

NOTES

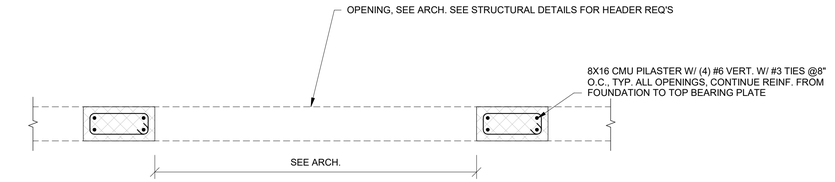
1. TRIM VERTICAL LEG AS REQUIRED AT DOOR AND WINDOW OPENINGS.
2. BEAM AND COMPOSITE FLOOR NOT SHOWN FOR CLARITY.



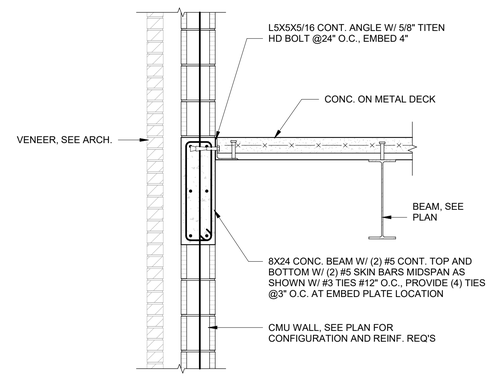
1 COMPOSITE FLOOR PERIMETER ANGLE (2ND)
1" = 1'-0"



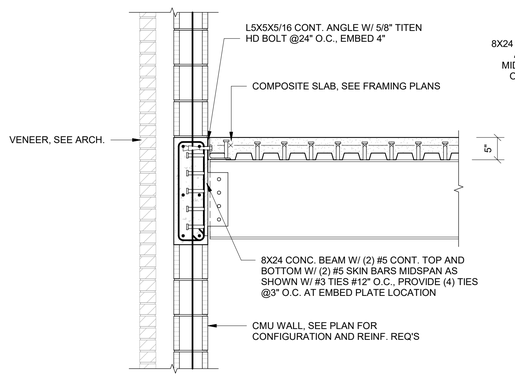
2 JOIST AND LTGA TRUSS EMBED PLATE BEARING DETAIL
3/4" = 1'-0"



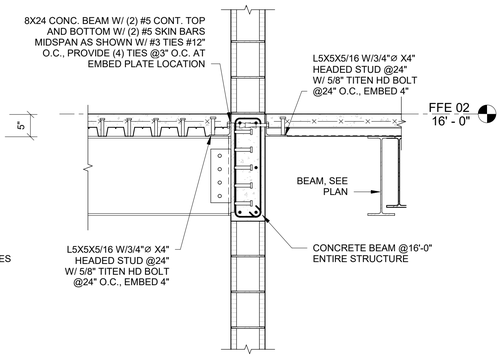
3 PILASTER DETAIL NO. 1
3/4" = 1'-0"



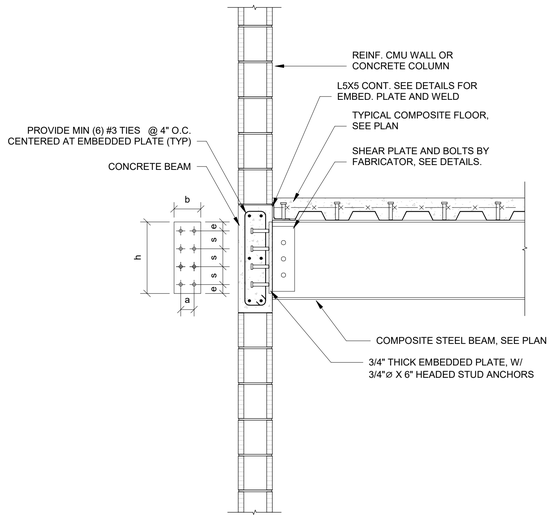
4 TYPICAL 2ND FLOOR ATTACHMENT
3/4" = 1'-0"



5 TYPICAL 2ND FLOOR ATTACHMENT @BEAM
3/4" = 1'-0"



6 SECTION NO. 1 - Callout 2
3/4" = 1'-0"



7 TYPICAL STEEL BEAM TO CONCRETE CONNECTION DETAIL
3/4" = 1'-0"

EMBEDDED PLATE SCHEDULE

BEAM DESCRIPTION	ASD DESIGN LOAD		PLATE DIMENSIONS					NO. OF STUD ANCHORS
	DEAD LOAD	LIVE LOAD	h	b	s	a	e	
W 8	3 KIPS	4 KIPS	10	6	6	4	2	4
W10	6 KIPS	7 KIPS	10	6	6	4	2	4
W12	6 KIPS	12 KIPS	16	6	4	4	2	8
W14	6 KIPS	12 KIPS	16	6	4	4	2	8
W16	13 KIPS	11 KIPS	20	6	4	4	2	10
W18	16 KIPS	10 KIPS	20	6	4	4	2	10
W21	16 KIPS	10 KIPS	20	6	4	4	2	10
W24	16 KIPS	11 KIPS	24	6	5	4	2	10

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

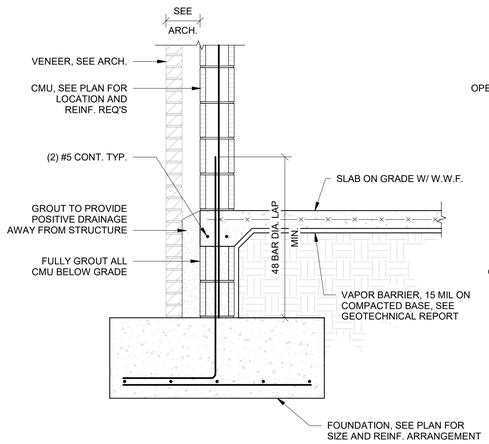
Project No.: 83X98735

Drawing Title:
STRUCTURAL DETAIL(S)

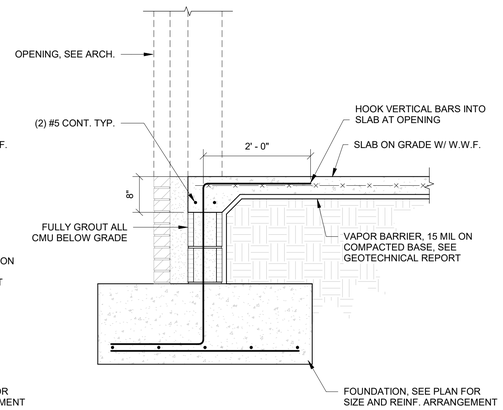
Date: 10 OCTOBER 2024

Designed By: DJM
Drawn By: WEH
Checked By: DJM

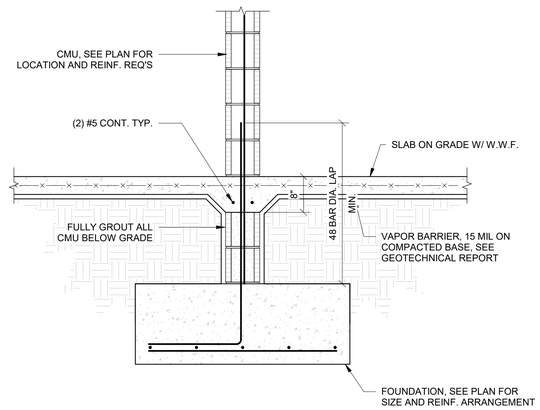
Drawing No.: S-004



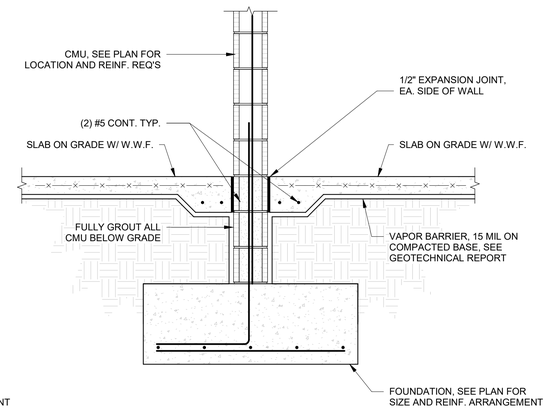
1 TYPICAL FOUNDATION DETAIL
3/4" = 1'-0"



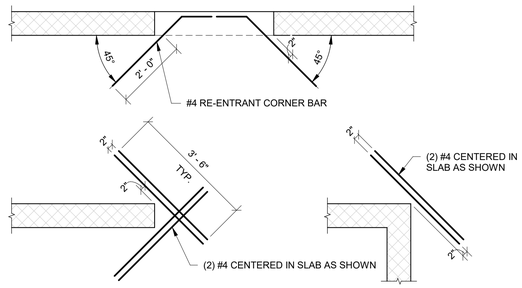
2 TYPICAL FOUNDATION DETAIL @OPENING
3/4" = 1'-0"



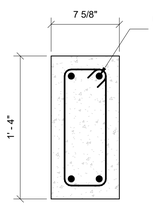
3 TYPICAL INTERIOR FOUNDATION DETAIL
3/4" = 1'-0"



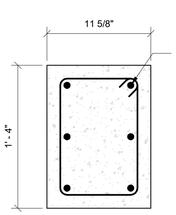
4 TYPICAL INTERIOR FOUNDATION DETAIL 2
3/4" = 1'-0"



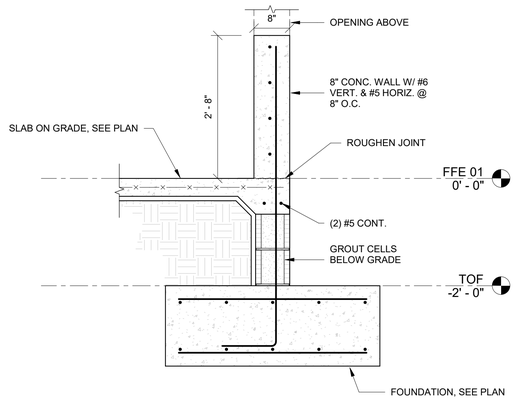
5 SLAB RE-ENTRANT CORNER BARS
1/2" = 1'-0"



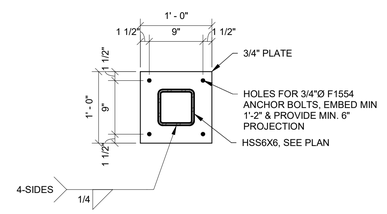
6 CONCRETE COLUMN 7-5/8"X16"
1 1/2" = 1'-0"



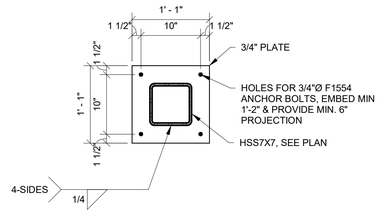
7 CONCRETE COLUMN 11-5/8"X16"
1 1/2" = 1'-0"



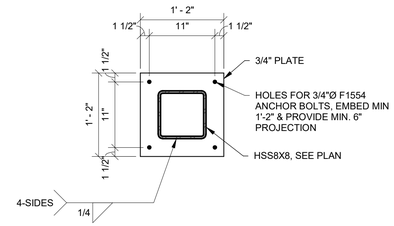
8 CONCRETE SILL DETAIL
3/4" = 1'-0"



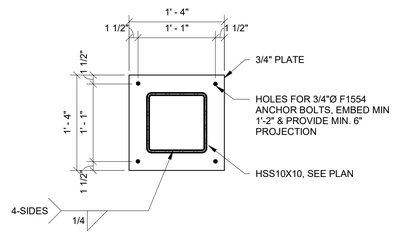
9A HSS6X6 BASE PLATE
1" = 1'-0"



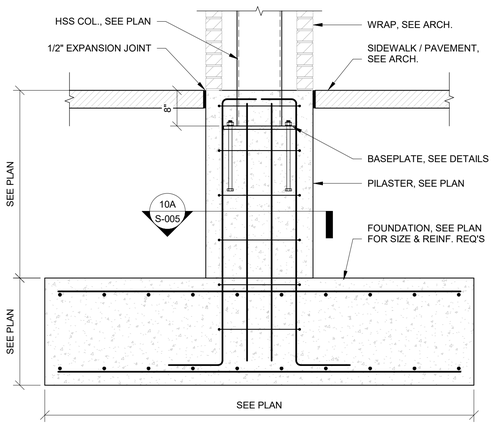
9B HSS7X7 BASE PLATE
1" = 1'-0"



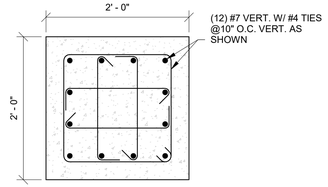
9C HSS8X8 BASE PLATE
1" = 1'-0"



9D HSS10X10 BASE PLATE
1" = 1'-0"



10 TYP. PILASTER DETAIL
3/4" = 1'-0"



10A CONCRETE PILASTER 24"X24"
1" = 1'-0"

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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOLS

Seal:

DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
STRUCTURAL SECTION(S)

Date: 10 OCTOBER 2024

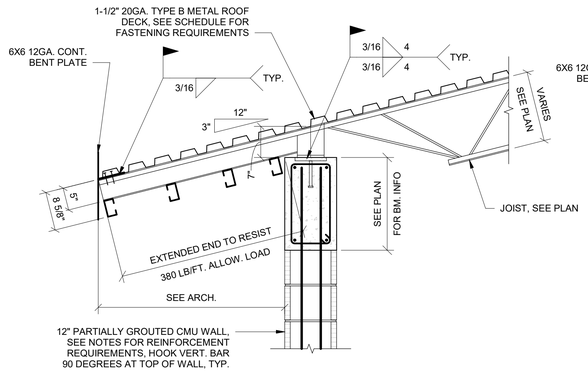
Designed By: DJM
Drawn By: WEH
Checked By: DJM

Drawing No.: S-005

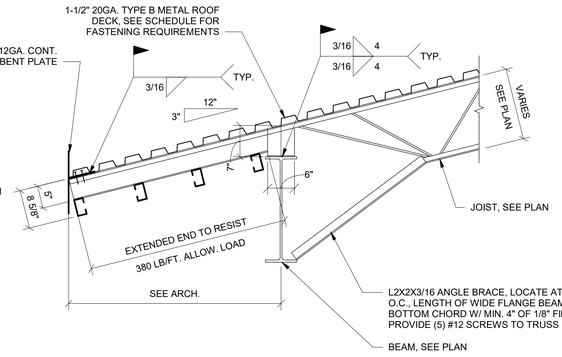
100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

SHEET NOTES

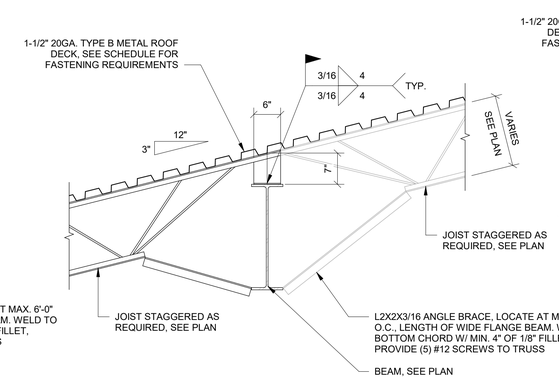
1. PROVIDE 14GA. BENT PLATE W/ LEG TURNED DOWN. SEE ARCH. FOR DIMENSION. PROVIDE 3" TAB W/ (2) 0.157"ø P.A.F. TO JOIST OR (2) #12 SCREWS TO LTGA.



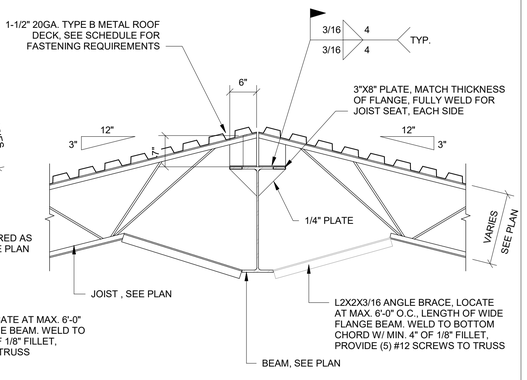
1 TYPICAL JOIST BEARING ON CONCRETE BEAM DETAIL
3/4" = 1'-0"



2 TYPICAL JOIST BEARING ON WBEAM DETAIL
3/4" = 1'-0"



3 TYPICAL JOIST BEARING ON WBEAM DETAIL 2
3/4" = 1'-0"



4 TYPICAL JOIST BEARING ON WBEAM DETAIL 3
3/4" = 1'-0"

5 TYPICAL OUTRIGGER CONNECTION DETAIL
3/4" = 1'-0"

6 TYPICAL OUTRIGGER @SOFFIT BEARING ON CONCRETE BEAM DETAIL
3/4" = 1'-0"

7 TYPICAL OUTRIGGER BEARING ON WBEAM DETAIL
3/4" = 1'-0"

8 TYPICAL SLOPED WBEAM EMBED PLATE DETAIL
1" = 1'-0"

9 CONC. CAP BEAM REINF. DETAIL
3/4" = 1'-0"

10 TRUSS CONN. TO CMU WALL
1/2" = 1'-0"

11 JOIST CONN. TO CMU WALL
3/4" = 1'-0"

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Seal:

DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

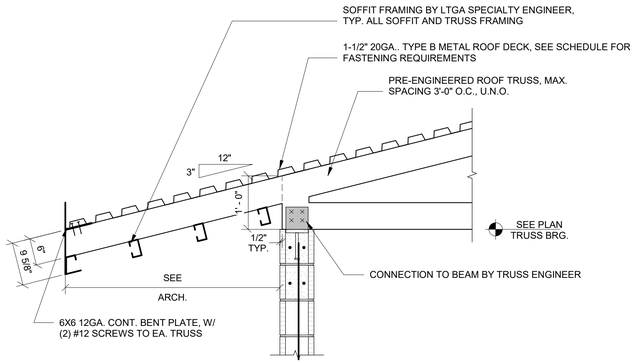
Drawing Title:
STRUCTURAL DETAIL(S)

Date: 10 OCTOBER 2024

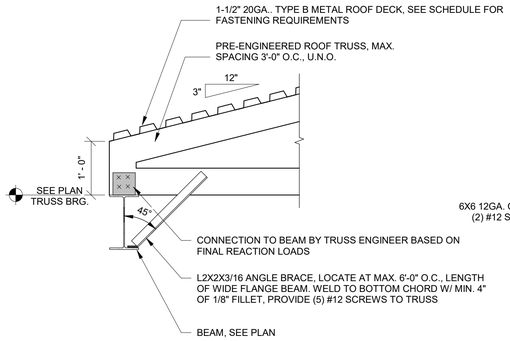
Designed By:	DJM	*Drawing No.:*
Drawn By:	WEH	S-006
Checked By:	DJM	

SHEET NOTES

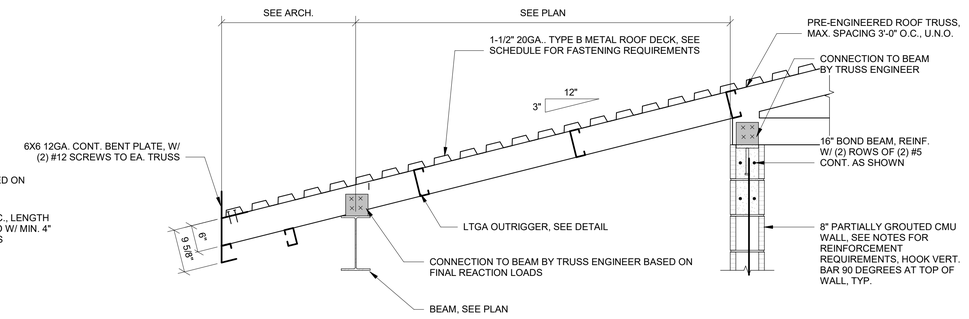
1. CONTRACTOR TO COORDINATE SLOPED CONCRETE BEAMS WITH ROOF PITCH, HOLD CONCRETE BEAM DOWN DEPTH OF LIGHT GAGE SPECIALTY ENGINEER JOIST CONFIGURATION AND AS SHOWN ON THE STRUCTURAL CONSTRUCTION DOCUMENTS.
2. PROVIDE 14GA. BENT PLATE W/ LEG TURNED DOWN. SEE ARCH. FOR DIMENSION. PROVIDE 3" TAB W/ (2) 0.157"ø P.A.F. TO JOIST OR (2) #12 SCREWS TO LTGA.



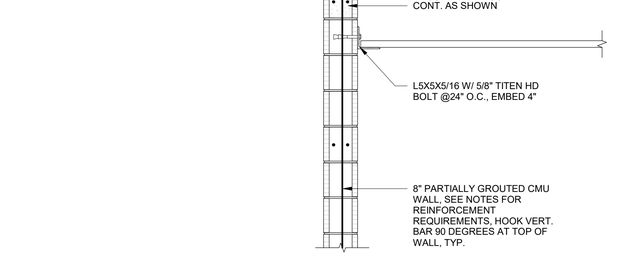
1 TYPICAL TRUSS CONNECTION DETAIL
3/4" = 1'-0"



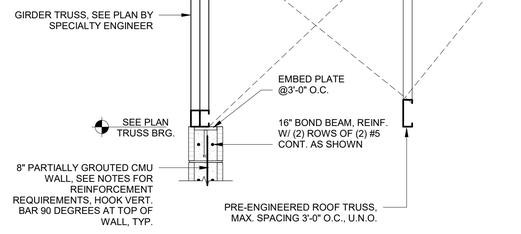
2 TYPICAL TRUSS CONNECTION DETAIL NO. 2
3/4" = 1'-0"



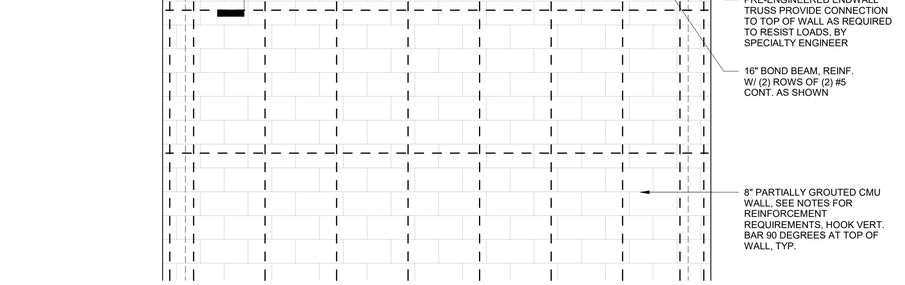
3 LTGA TRUSS CONNECTION DETAIL NO. 3
3/4" = 1'-0"



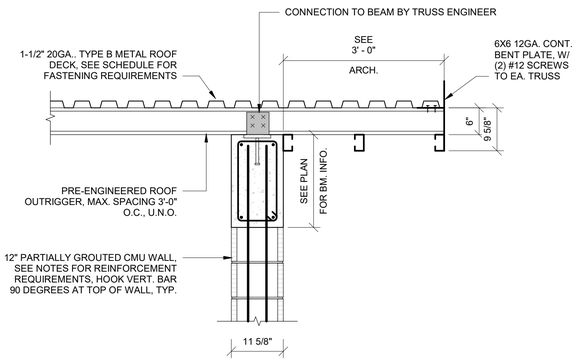
4 TYPICAL TRUSS CONNECTION DETAIL NO. 4
3/4" = 1'-0"



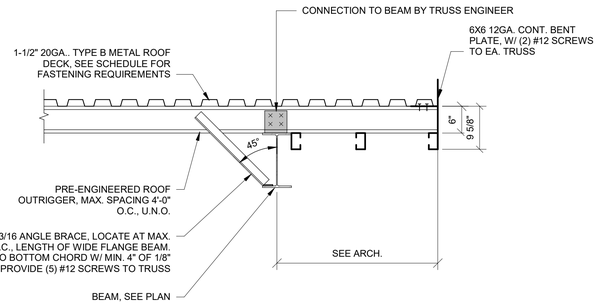
5 TYPICAL DORMER OUTRIGGER CONNECTION DETAIL
3/4" = 1'-0"



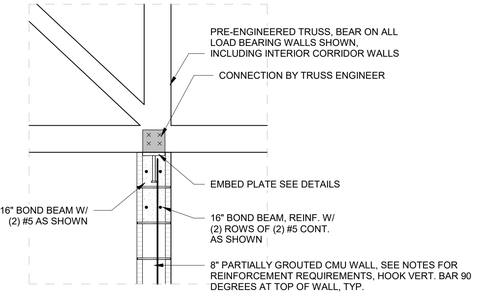
6 TYPICAL DORMER OUTRIGGER ELEVATION
1/2" = 1'-0"



7 TYPICAL LTGA OUTRIGGER BEARING ON CONCRETE BEAM DETAIL
3/4" = 1'-0"



8 TYPICAL LTGA OUTRIGGER BEARING ON WBEAM DETAIL
3/4" = 1'-0"



9 TRUSS BEARING DETAIL NO. 2
3/4" = 1'-0"

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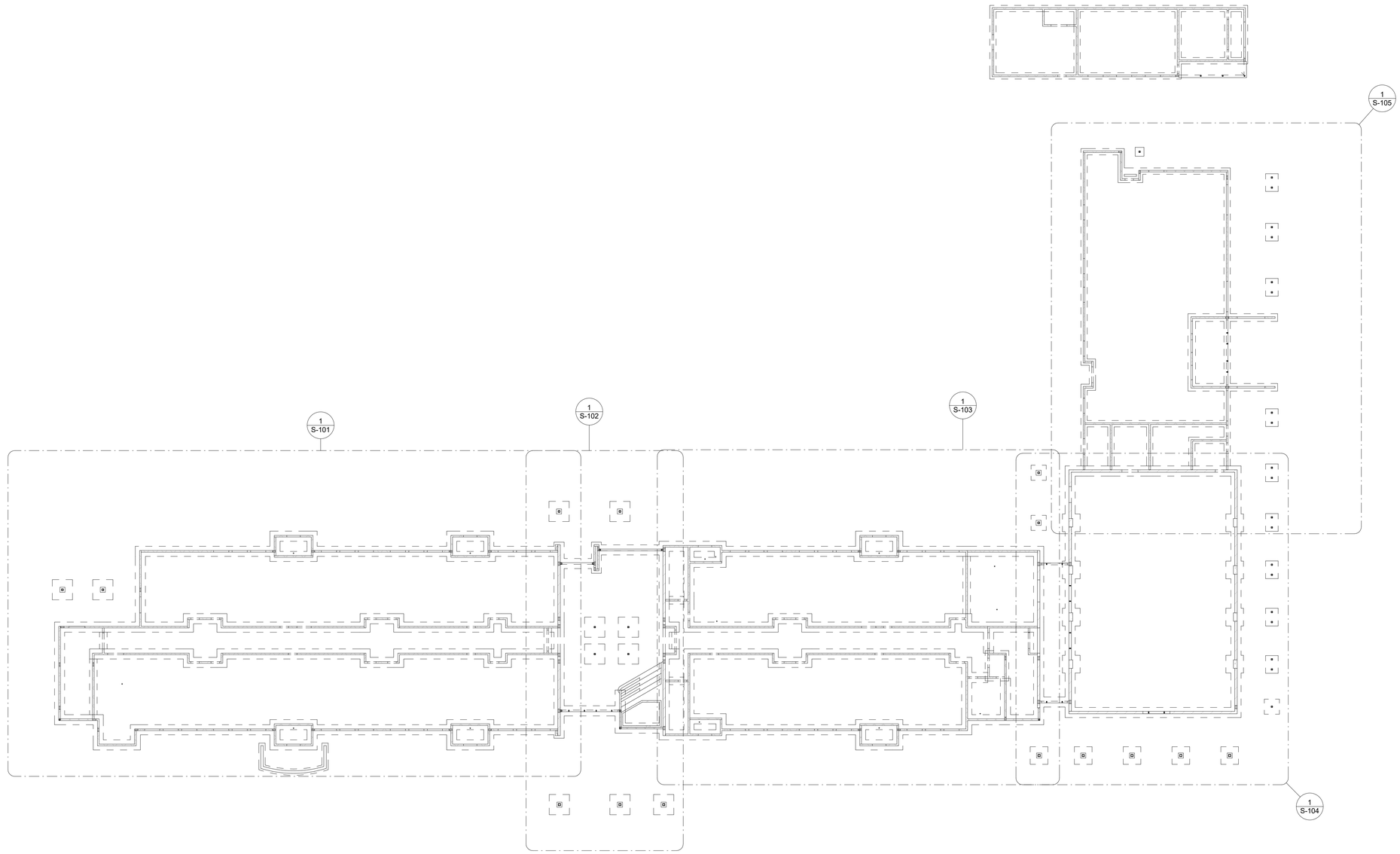
STRUCTURAL DETAIL(S)

Date: 10 OCTOBER 2024

Designed By:	DJM	*Drawing No.:*
Drawn By:	WEH	S-007
Checked By:	DJM	



1 OVERALL FOUNDATION PLAN
3/64" = 1'-0"

FOUNDATION SCHEDULE		
DESIGNATION	SIZE	REINFORCEMENT
F2.5W	2'-6"X1'-3" THICK	(3) #6 CONT. BOTTOM #6 @12" O.C. TRANSVERSE
F3W	3'-0"X1'-6" THICK	(4) #6 CONT. BOTTOM #6 @12" O.C. TRANSVERSE
F4W	4'-0"X1'-6" THICK	(5) #6 CONT. T&B #6 @12" O.C. TRANSVERSE
F3.5	3'-6"X3'-6"X1'-6"	(4) #6 CONT. E.W. T&B
F5X7	5'-0"X7'-0"X1'-6"	#6 @12" O.C. E.W. T&B
F6	6'-0"X6'-0"X1'-6"	(6) #6 CONT. E.W. T&B
F7	7'-0"X7'-0"X1'-6"	(7) #6 CONT. E.W. T&B
F8	8'-0"X8'-0"X2'-0"	(10) #6 CONT. E.W. T&B

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

Jacobs | TITAN TECHNOLOGIES

4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida

Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DONALD J McCARTHY
LICENSE
No. 71644
STATE OF FLORIDA
PROFESSIONAL ENGINEER

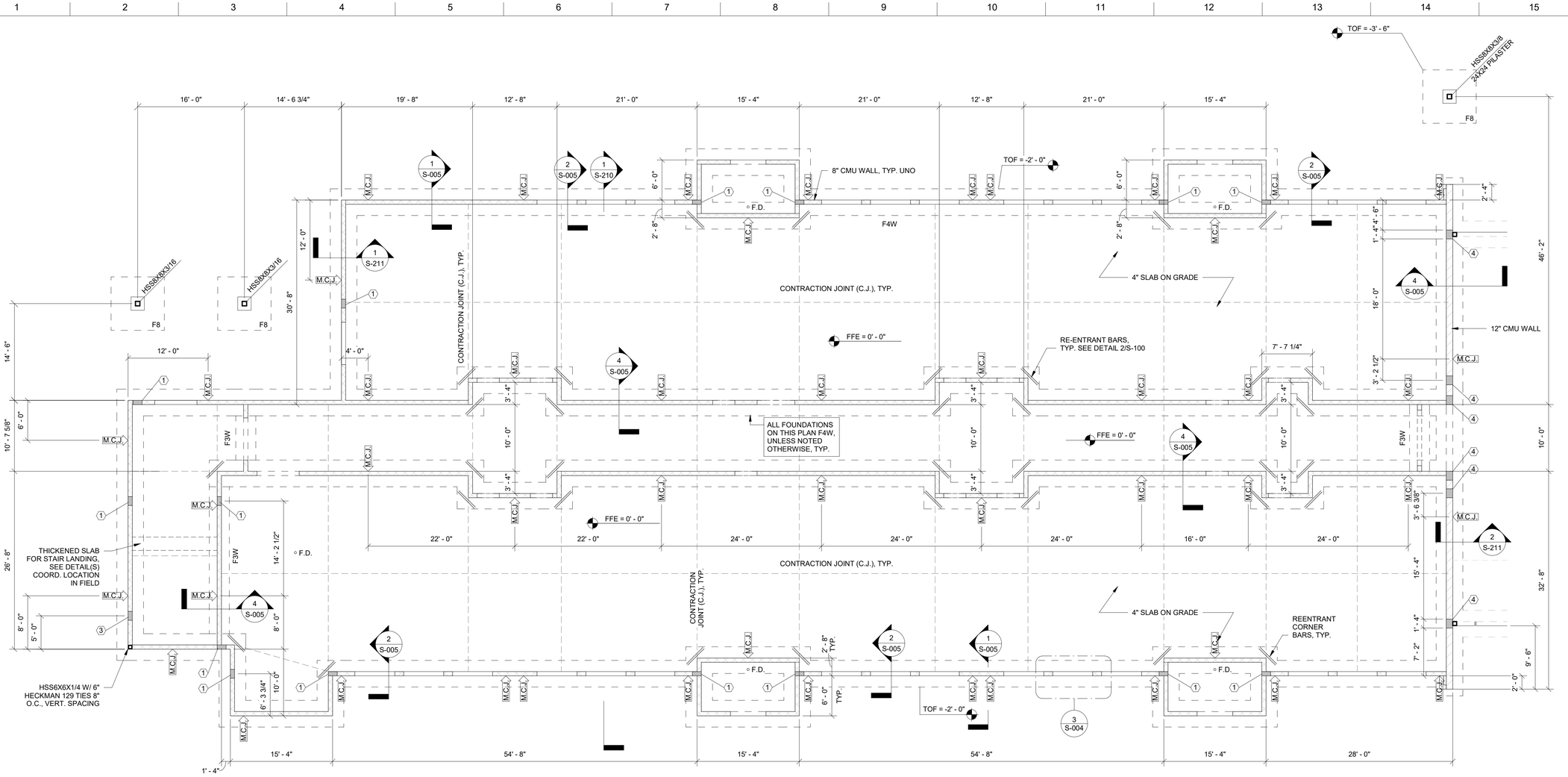
Project No.: 83X98735

Drawing Title:
OVERALL FOUNDATION PLAN

Date: 10 OCTOBER 2024

Designed By: DJM
Drawn By: WEH
Checked By: DJM

Drawing No.:
S-100



1 FOUNDATION PLAN A
1/8" = 1'-0"

FOUNDATION PLAN NOTES

FINISH FLOOR ELEVATION - 0'-0", U.N.O.

1. TOP OF FOOTING (T.O.F.) ELEVATION = -(2'-0") U.N.O.
2. ALL WALL FOUNDATIONS SHALL BE F4W U.N.O.
3. CENTER FOUNDATIONS BENEATH WALLS AND COLUMNS U.N.O.
4. COORDINATE ALL FLOOR DRAIN (FD) LOCATIONS & SLAB PENETRATIONS WITH PLUMBING DRAWINGS
5. TYPICAL FLOOR SLAB SHALL BE 4" CONCRETE SLAB REINFORCED WITH 6X6 W2.9XW2.9 W.W.F.
6. SEE ARCHITECTURAL AND EQUIPMENT MANUFACTURER CUT-SHEET DRAWINGS FOR ALL SLOPE REQUIREMENTS AND WALL OPENINGS. THE FOUNDATION PLAN SHOWS ALL OPENINGS CUT +2'-0" ABOVE F.F.E. REFERENCE.
7. COORDINATE ALL DEPRESSED SLABS WITH ARCHITECTURAL DRAWINGS.
8. COORDINATE WITH ARCH. FOR ALL CMU OPENINGS.
9. *FOR COLUMN SIZES AND FOOTING DIMENSIONS AND REINFORCING, SEE FOUNDATION PLAN AND FOUNDATION SCHEDULE.*
10. 8" CMU WALLS SHALL BE REINFORCED W/ #6 VERT. @24" O.C. WITH ADDITIONAL AS REQUIRED BY MASONRY NOTES.
11. 12" CMU WALLS SHALL BE REINFORCED WITH (2) #6 VERT. @32" O.C., WITH ADDITIONAL AS REQUIRED BY MASONRY NOTES.
12. CENTER PILASTER / COLUMN ON BEAM.

① - 8"X16" CMU PILASTER W/ CONCRETE BOLSTER @BEAM BRG
② - 12"X16" CMU PILASTER W/ CONCRETE BOLSTER @BEAM BRG
③ - 8"X16" CONCRETE COLUMN
④ - 12"X16" CONCRETE COLUMN

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida

Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY DISTRICT SCHOOLS

Seal:

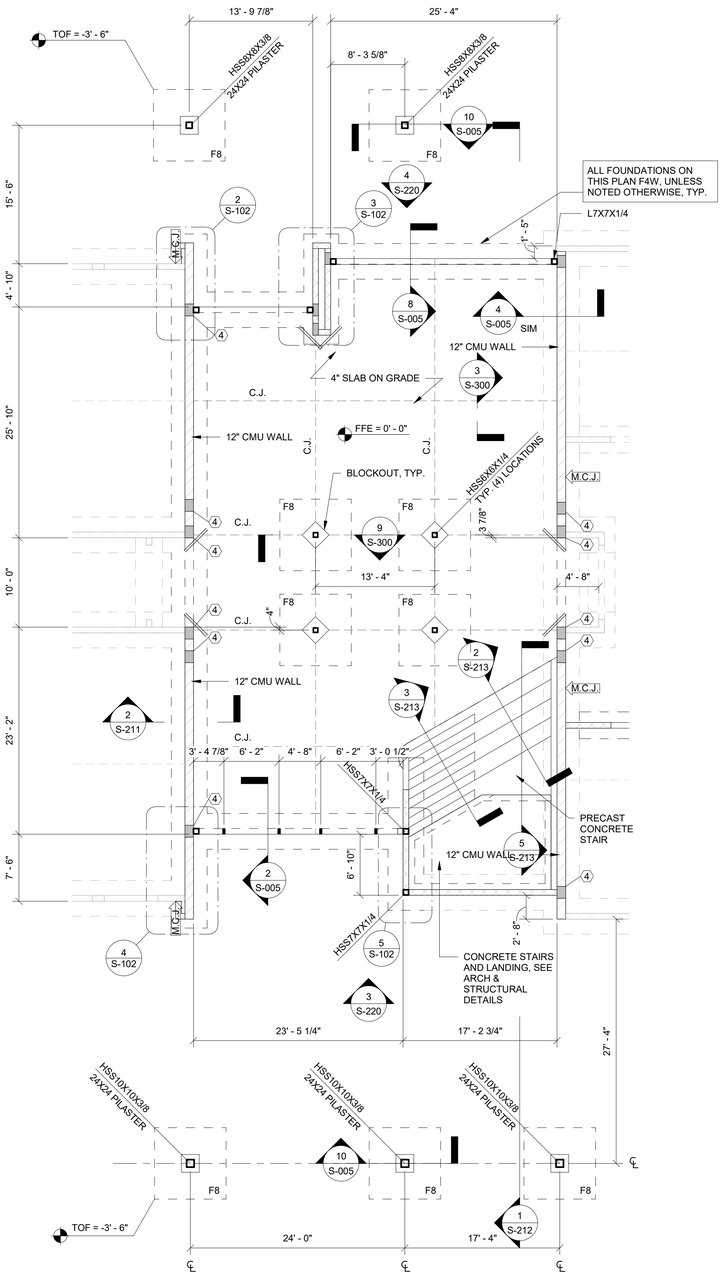
DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
FOUNDATION PLAN A

Date: 10 OCTOBER 2024

Designed By:	DJM	*Drawing No.:*
Drawn By:	WEH	S-101
Checked By:	DJM	



1 FOUNDATION PLAN B1
1/8" = 1'-0"

FOUNDATION PLAN NOTES

FINISH FLOOR ELEVATION - 0'-0", U.N.O.

1. TOP OF FOOTING (T.O.F.) ELEVATION = -(2'-0") U.N.O.
2. ALL WALL FOUNDATIONS SHALL BE F4W U.N.O.
3. CENTER FOUNDATIONS BENEATH WALLS AND COLUMNS U.N.O.
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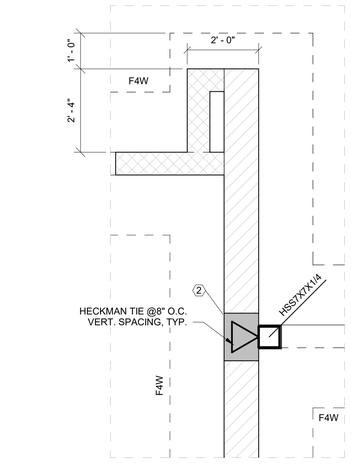
5. TYPICAL FLOOR SLAB SHALL BE 4" CONCRETE SLAB REINFORCED WITH 6X6 W2.9XW2.9 W.W.F.
6. SEE ARCHITECTURAL AND EQUIPMENT MANUFACTURER CUT-SHEET DRAWINGS FOR ALL SLOPE REQUIREMENTS AND WALL OPENINGS. THE FOUNDATION PLAN SHOWS ALL OPENINGS CUT +2'-0" ABOVE F.F.E. REFERENCE.
7. COORDINATE ALL DEPRESSED SLABS WITH ARCHITECTURAL DRAWINGS.
8. COORDINATE WITH ARCH. FOR ALL CMU OPENINGS.
9. *FOR COLUMN SIZES AND FOOTING DIMENSIONS AND REINFORCING, SEE FOUNDATION PLAN AND FOUNDATION SCHEDULE.*
10. 8" CMU WALLS SHALL BE REINFORCED W/ #6 VERT. @24" O.C. WITH ADDITIONAL AS REQUIRED BY MASONRY NOTES.
11. 12" CMU WALLS SHALL BE REINFORCED WITH (2) #6 VERT. @32" O.C., WITH ADDITIONAL AS REQUIRED BY MASONRY NOTES.

M.C.J. MASONRY CONTROL JOINT (MCJ)

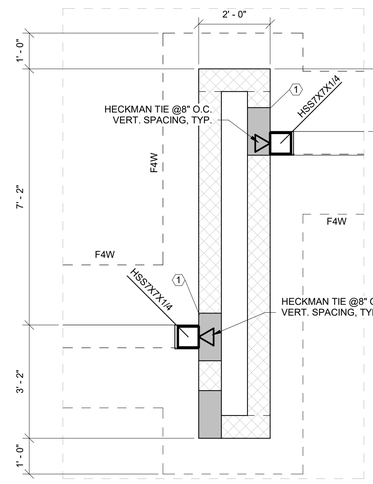
8" CMU WALLS SHALL BE REINFORCED W/ #6 VERT. @24" O.C. WITH ADDITIONAL AS REQUIRED BY MASONRY NOTES.

12" CMU WALLS SHALL BE REINFORCED WITH (2) #6 VERT. @32" O.C., WITH ADDITIONAL AS REQUIRED BY MASONRY NOTES.

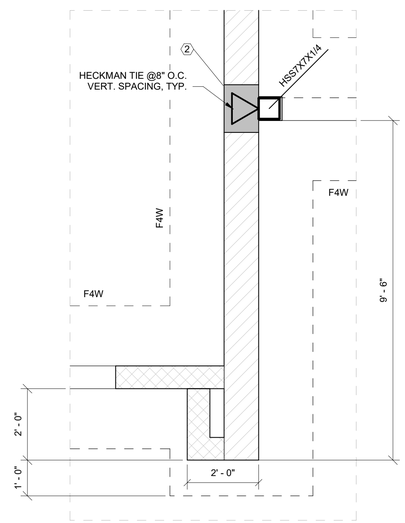
① - 8"X16" CMU PILASTER W/ CONCRETE BOLSTER @BEAM BRG
② - 12"X16" CMU PILASTER W/ CONCRETE BOLSTER @BEAM BRG
③ - 8"X16" CONCRETE COLUMN
④ - 12"X16" CONCRETE COLUMN



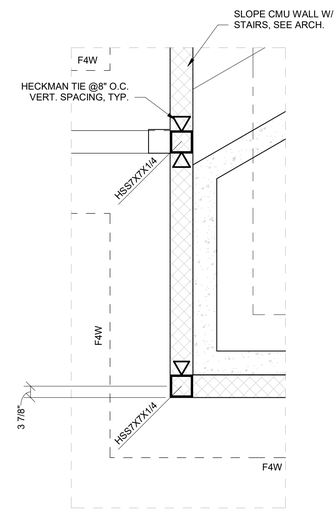
2 FOUNDATION PLAN B1 - Callout 1
1/2" = 1'-0"



3 FOUNDATION PLAN B1 - Callout 2
1/2" = 1'-0"



4 FOUNDATION PLAN B1 - Callout 3
1/2" = 1'-0"



5 FOUNDATION PLAN B1 - Callout 4
1/2" = 1'-0"

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312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

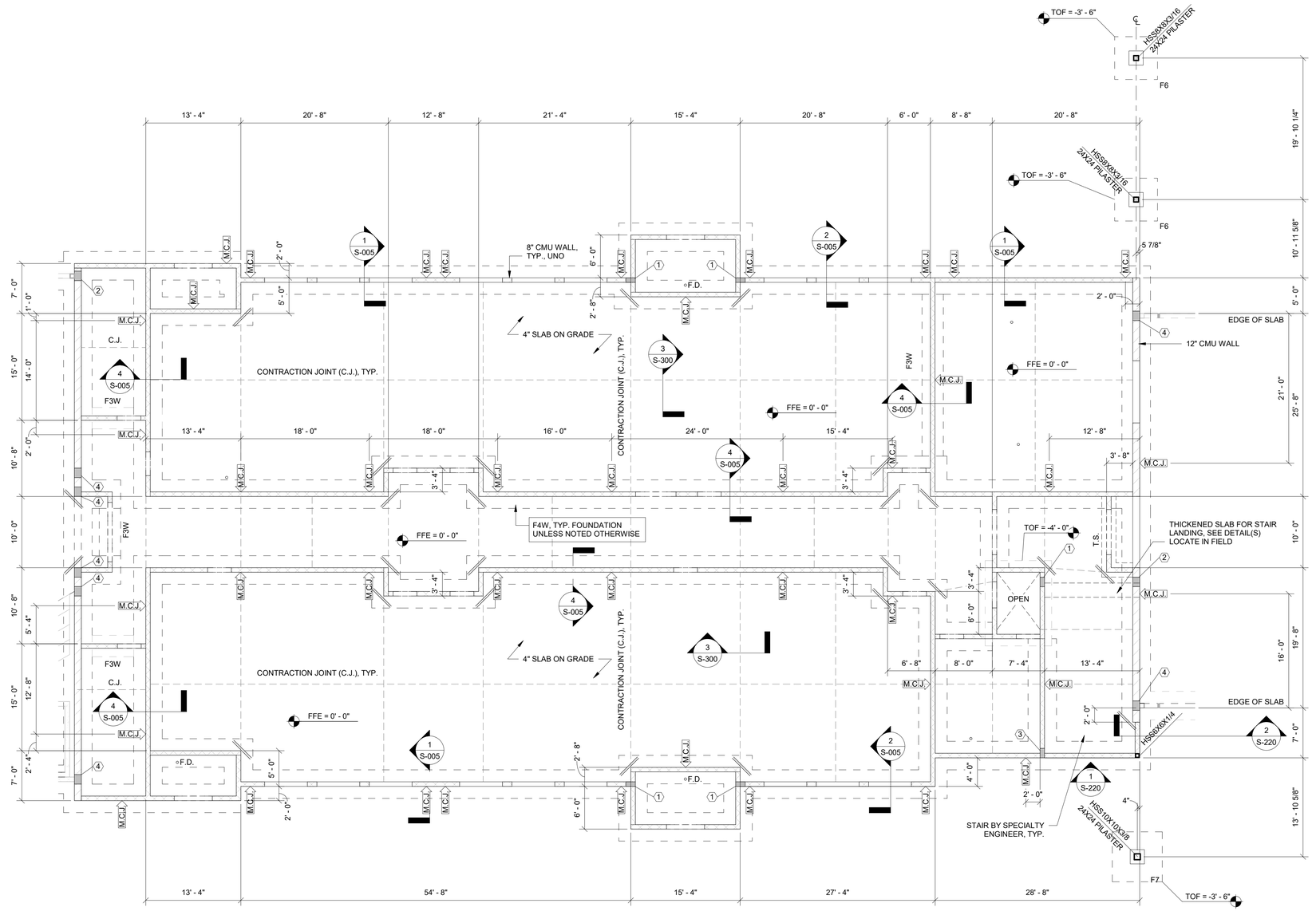
DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
FOUNDATION PLAN B1

Date: 10 OCTOBER 2024

Designed By:	DJM	*Drawing No.:*
Drawn By:	WEH	S-102
Checked By:	DJM	



1 FOUNDATION PLAN B2
1/8" = 1'-0"

FOUNDATION PLAN NOTES

FINISH FLOOR ELEVATION - 0'-0", U.N.O.

1. TOP OF FOOTING (T.O.F.) ELEVATION = -(2'-0") U.N.O.
2. ALL WALL FOUNDATIONS SHALL BE F4W U.N.O.
3. CENTER FOUNDATIONS BENEATH WALLS AND COLUMNS U.N.O.
4. COORDINATE ALL FLOOR DRAIN (FD) LOCATIONS & SLAB PENETRATIONS WITH PLUMBING DRAWINGS
5. TYPICAL FLOOR SLAB SHALL BE 4" CONCRETE SLAB REINFORCED WITH 6X6 W2.9XW2.9 W.W.F. FOR THE MULTIPURPOSE BUILDING, PROVIDE 5" THICK SLAB REINF. W/ 4X4 W4.0XW4.0 W.W.F.
6. SEE ARCHITECTURAL AND EQUIPMENT MANUFACTURER CUT-SHEET DRAWINGS FOR ALL SLOPE REQUIREMENTS AND WALL OPENINGS. THE FOUNDATION PLAN SHOWS ALL OPENINGS CUT +2'-0" ABOVE F.F.E. REFERENCE.
7. COORDINATE ALL DEPRESSED SLABS WITH ARCHITECTURAL DRAWINGS.
8. COORDINATE WITH ARCH. FOR ALL CMU OPENINGS.
9. *FOR COLUMN SIZES AND FOOTING DIMENSIONS AND REINFORCING, SEE FOUNDATION PLAN AND FOUNDATION SCHEDULE.*
10. 8" CMU WALLS SHALL BE REINFORCED W/ #6 VERT. @24" O.C. WITH ADDITIONAL AS REQUIRED BY MASONRY NOTES.
11. 12" CMU WALLS SHALL BE REINFORCED WITH (2) #6 VERT. @32" O.C., WITH ADDITIONAL AS REQUIRED BY MASONRY NOTES.
12. T.S. = THICKENED SLAB

M.C.J. MASONRY CONTROL JOINT (MCJ)

8" CMU WALLS SHALL BE REINFORCED W/ #6 VERT. @24" O.C. WITH ADDITIONAL AS REQUIRED BY MASONRY NOTES.

12" CMU WALLS SHALL BE REINFORCED WITH (2) #6 VERT. @32" O.C., WITH ADDITIONAL AS REQUIRED BY MASONRY NOTES.

① - 8"X16" CMU PILASTER W/ CONCRETE BOLSTER @BEAM BRG
② - 12"X16" CMU PILASTER W/ CONCRETE BOLSTER @BEAM BRG
③ - 8"X16" CONCRETE COLUMN
④ - 12"X16" CONCRETE COLUMN

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Okaloosa County, Florida

OKALOOSA COUNTY DISTRICT SCHOOLS

Seal:

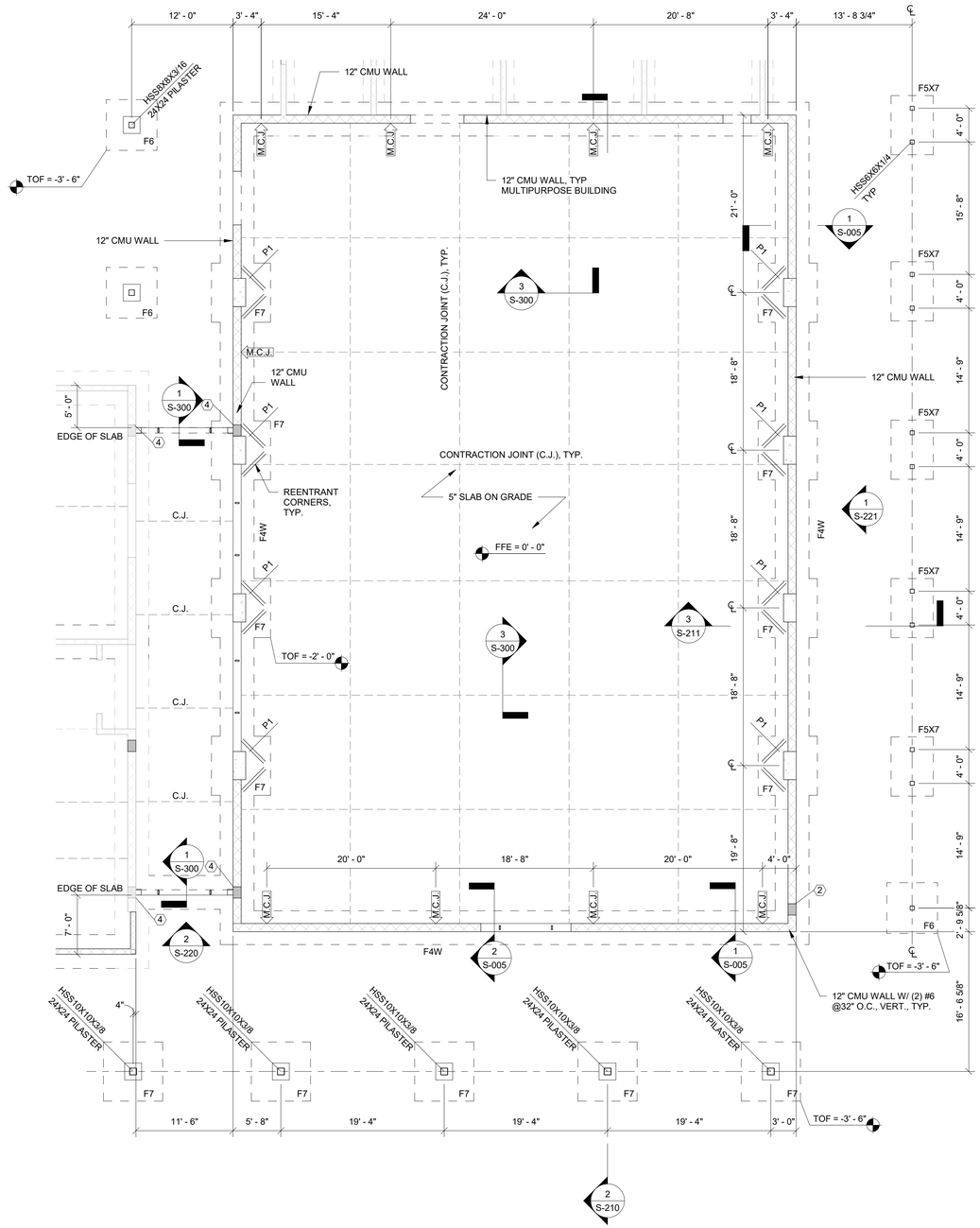
DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
FOUNDATION PLAN B2

Date: 10 OCTOBER 2024

Designed By:	DJM	*Drawing No.:*
Drawn By:	WEH	S-103
Checked By:	DJM	



1 FOUNDATION PLAN C
1/8" = 1'-0"

FOUNDATION PLAN NOTES

FINISH FLOOR ELEVATION - 0'-0", U.N.O.

1. TOP OF FOOTING (T.O.F.) ELEVATION = -(2'-0") U.N.O.
2. ALL WALL FOUNDATIONS SHALL BE F4W U.N.O.
3. CENTER FOUNDATIONS BENEATH WALLS AND COLUMNS U.N.O.
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5. TYPICAL FLOOR SLAB SHALL BE 4" CONCRETE SLAB REINFORCED WITH 6X6 W2.9XW2.9 W.W.F. FOR THE MULTIPURPOSE BUILDING, PROVIDE 5" THICK SLAB REINF. W/ 4X4 W4.0XW4.0 W.W.F.
6. SEE ARCHITECTURAL AND EQUIPMENT MANUFACTURER CUT-SHEET DRAWINGS FOR ALL SLOPE REQUIREMENTS AND WALL OPENINGS. THE FOUNDATION PLAN SHOWS ALL OPENINGS CUT +2'-0" ABOVE F.F.E. REFERENCE.
7. COORDINATE ALL DEPRESSED SLABS WITH ARCHITECTURAL DRAWINGS.
8. COORDINATE WITH ARCH. FOR ALL CMU OPENINGS.
9. *FOR COLUMN SIZES AND FOOTING DIMENSIONS AND REINFORCING, SEE FOUNDATION PLAN AND FOUNDATION SCHEDULE.*
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M.C.J. MASONRY CONTROL JOINT (MCJ)

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① - 8"X16" CMU PILASTER W/ CONCRETE BOLSTER @BEAM BRG

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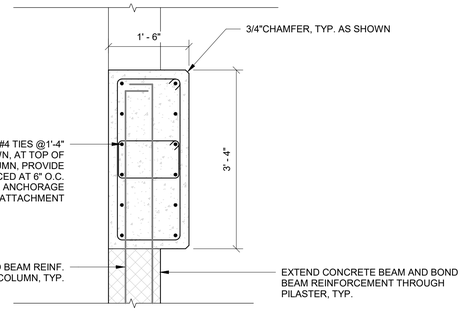
③ - 8"X16" CONCRETE COLUMN

④ - 12"X16" CONCRETE COLUMN



2 CONCRETE PILASTER DETAIL (P1) AT MULTI-PURPOSE BLDG.
3/4" = 1'-0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

Jacobs | TITAN TECHNOLOGIES
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Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

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Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

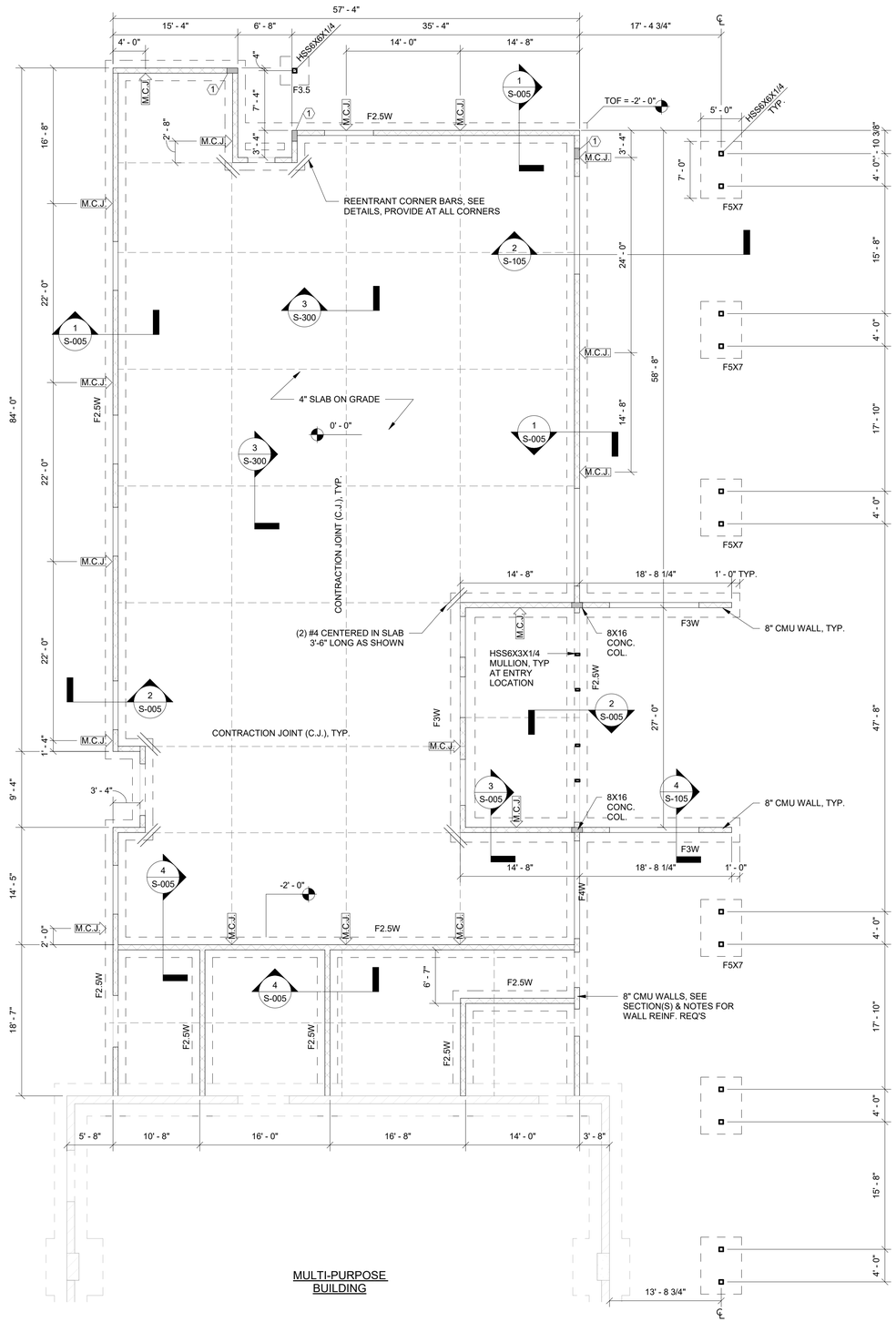
DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

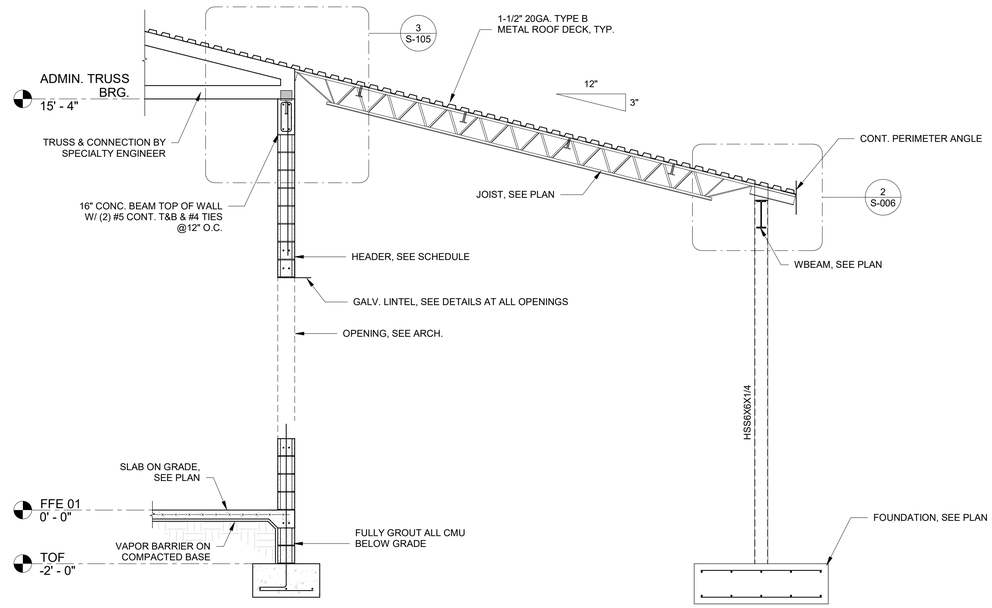
Drawing Title:
FOUNDATION PLAN C

Date: 10 OCTOBER 2024

Designed By:	DJM	*Drawing No.:*
Drawn By:	WEH	S-104
Checked By:	DJM	



1 FOUNDATION PLAN D
1/8" = 1'-0"



2 PLAN NO. 5 SECTION NO. 1
3/8" = 1'-0"

FOUNDATION PLAN NOTES

FINISH FLOOR ELEVATION - 0'-0", U.N.O.

1. TOP OF FOOTING (T.O.F.) ELEVATION = -(2'-0") U.N.O.
2. ALL WALL FOUNDATIONS SHALL BE F4W U.N.O.
3. CENTER FOUNDATIONS BENEATH WALLS AND COLUMNS U.N.O.
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5. TYPICAL FLOOR SLAB SHALL BE 4" CONCRETE SLAB REINFORCED WITH 6X6 W2.9XW2.9 W.W.F.
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7. COORDINATE ALL DEPRESSED SLABS WITH ARCHITECTURAL DRAWINGS.
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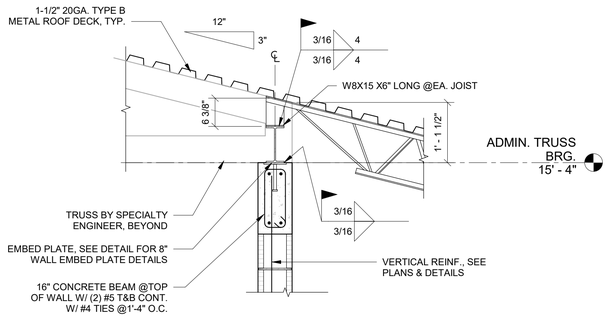
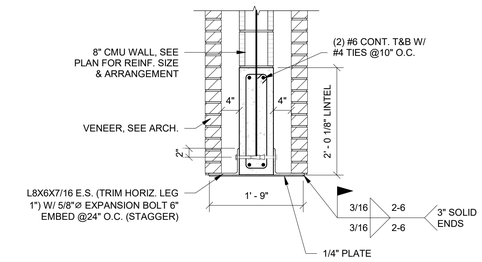
M.C.J. MASONRY CONTROL JOINT (MCJ)



3 PLAN NO. 5 DETAIL NO. 1
3/4" = 1'-0"



4 DOUBLE BRICK LINTEL DETAIL
3/4" = 1'-0"

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Florida Lic. No. C001942

Revision:

Date:	By:	Description:

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3/4/5 CENTER
Destin, Florida

Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY DISTRICT SCHOOLS

Seal:

DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

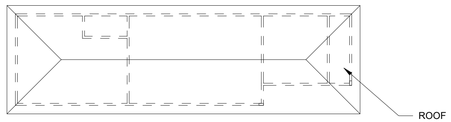
Project No.: 83X98735

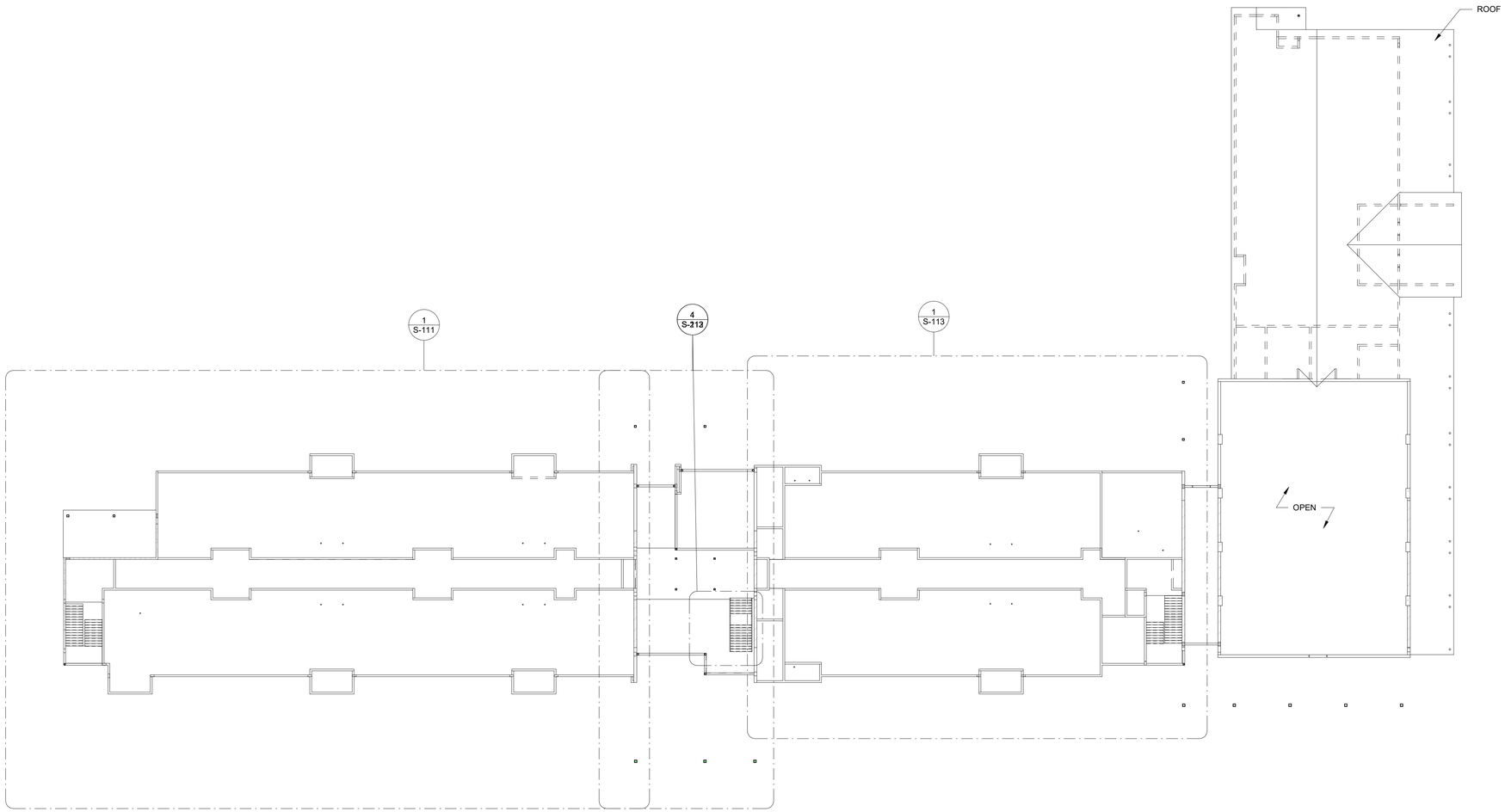
Drawing Title:
FOUNDATION PLAN D

Date: 10 OCTOBER 2024

Designed By:	DJM	*Drawing No.:*
Drawn By:	WEH	S-105
Checked By:	DJM	

FLOOR DECK PROPERTIES						Fy=50 KSI
DECK TYPE	DECK THICK.	WEIGHT (PSF)		I IN ^{4}/ft	Sp IN^3/ft	Sn IN^3/ft
		PTD.	GALV.			
2VLI 18GA	0.0474	2.5	2.5	0.557	0.485	0.500





1 OVERALL 2ND FLOOR FRAMING PLAN
3/64" = 1'-0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

Jacobs | TITAN TECHNOLOGIES

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Revision:

Date:	By:	Description:

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3/4/5 CENTER
Destin, Florida

Okaloosa County Public Schools
Okaloosa County, Florida

Seal:

DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
OVERALL 2ND FLOOR FRAMING PLAN

Date: 10 OCTOBER 2024

Designed By: DJM
Drawn By: WEH
Checked By: DJM

Drawing No.: S-110

PLAN NOTES

1. ELEVATED CONCRETE FLOOR CONSTRUCTION SHALL CONSIST OF 5" TOTAL THICKNESS COMPOSITE FLOOR DECK. CONCRETE SHALL BE 4000 PSI AT 28 DAYS AND SHALL BEAR ON 2" COMPOSITE FLOOR DECK, SEE DETAILS FOR GAUGE AND REINFORCEMENT REQUIREMENTS.
2. FINISH FLOOR ELEVATION = +16'-0"
3. TOP OF STEEL ELEVATION = 15'-7"
4. COORDINATE ALL FLOOR DRAIN (FD) LOCATIONS & SLAB PENETRATIONS WITH PLUMBING DRAWINGS
5. PROVIDE 8X24 CONCRETE BEAM AT +16'-0" TOP OF CONCRETE BEAM, ALL 8" CMU WALLS FOR 2-STORY STRUCTURE

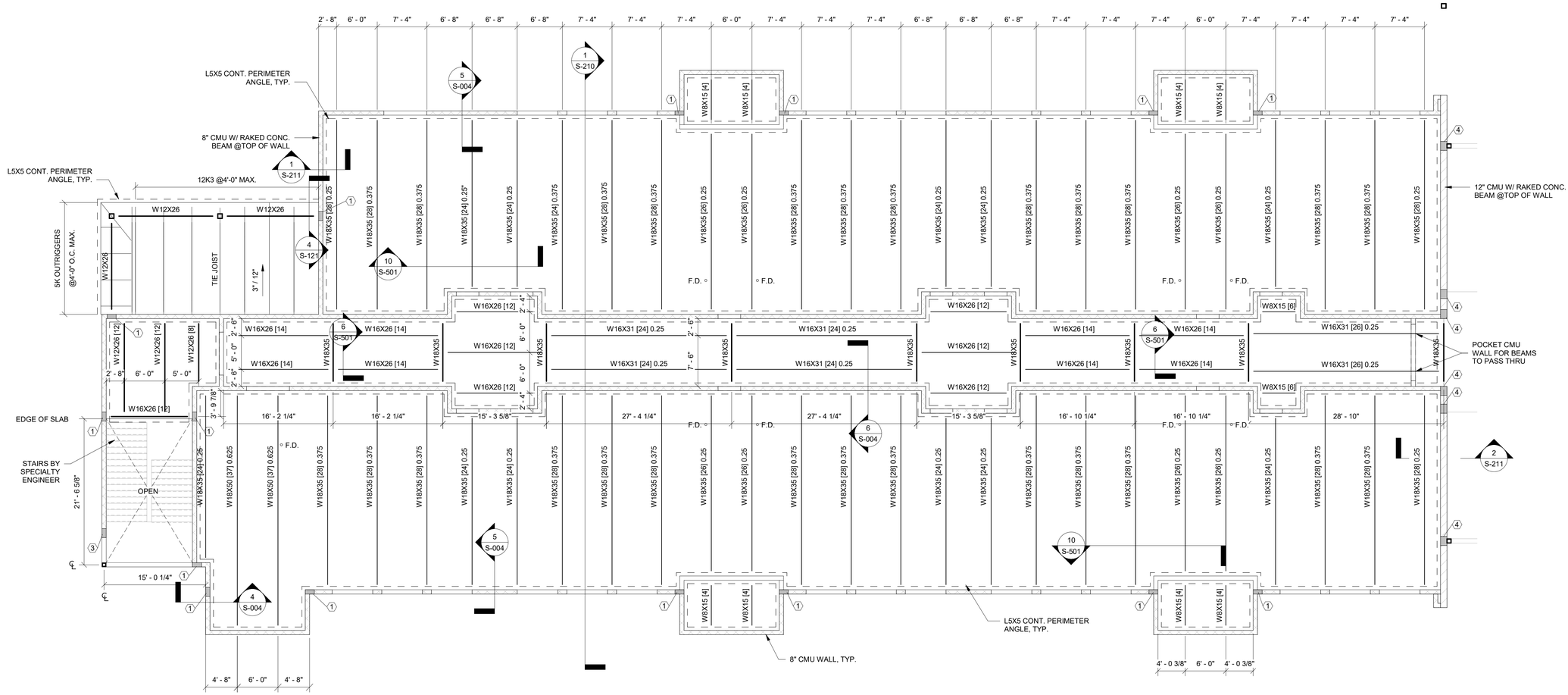
W18 _____ [# STUDS] CAMBER INCHES

① - 8"X16" CMU PILASTER W/ CONCRETE BOLSTER @BEAM BRG

② - 12"X16" CMU PILASTER W/ CONCRETE BOLSTER @BEAM BRG

③ - 8"X16" CONCRETE COLUMN

④ - 12"X16" CONCRETE COLUMN



① 2ND FLOOR FRAMING PLAN A
1/8" = 1'-0"

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

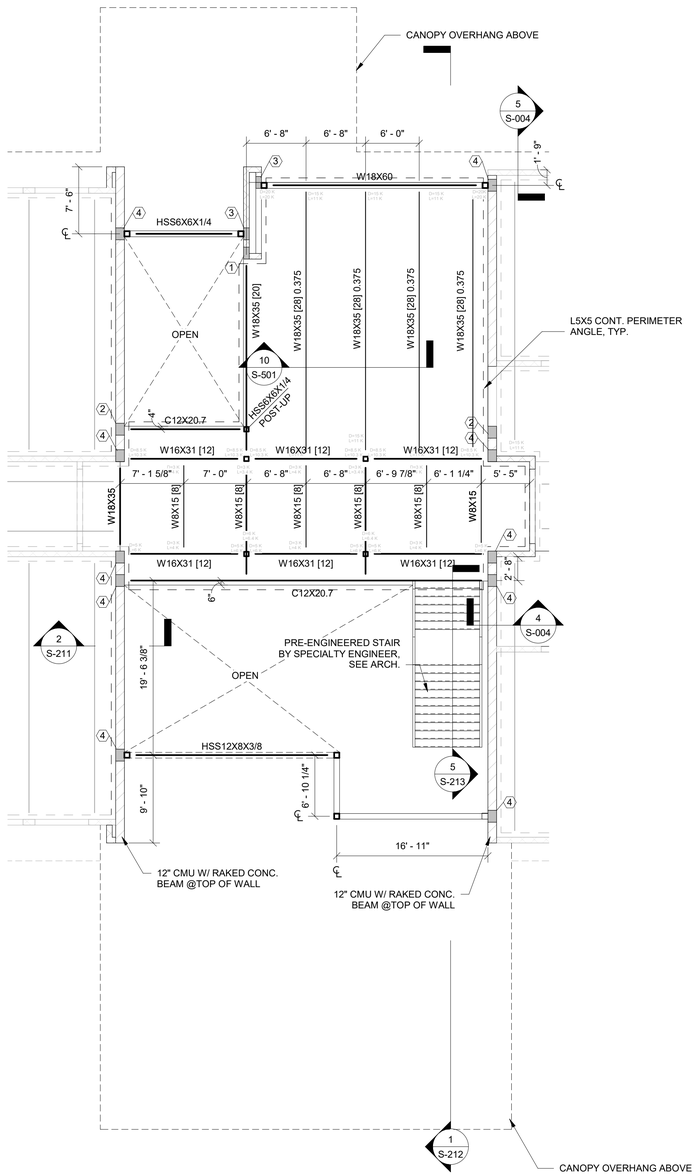
DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
2ND FLOOR FRAMING PLAN A

Date: 10 OCTOBER 2024

Designed By:	DJM	*Drawing No.:*
Drawn By:	WEH	S-111
Checked By:	DJM	



1 2ND FLOOR FRAMING PLAN B1
1/8" = 1'-0"

PLAN NOTES

1. ELEVATED CONCRETE FLOOR CONSTRUCTION SHALL CONSIST OF 5" TOTAL THICKNESS COMPOSITE FLOOR DECK. CONCRETE SHALL BE 4000 PSI AT 28 DAYS AND SHALL BEAR ON 2" COMPOSITE FLOOR DECK, SEE DETAILS FOR GAUGE AND REINFORCEMENT REQUIREMENTS.
2. FINISH FLOOR ELEVATION = +16'-0"
3. TOP OF STEEL ELEVATION = 15'-7"
4. COORDINATE ALL FLOOR DRAIN (FD) LOCATIONS & SLAB PENETRATIONS WITH PLUMBING DRAWINGS
5. PROVIDE 8X24 CONCRETE BEAM AT +16'-0" TOP OF CONCRETE BEAM, ALL 8" CMU WALLS FOR 2-STORY STRUCTURE

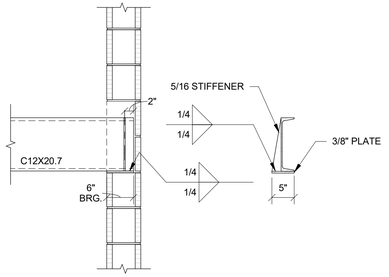
   W18 _____ [# STUDS] CAMBER INCHES

   (1) - 8"X16" CMU PILASTER W/ CONCRETE BOLSTER @BEAM BRG

   (2) - 12"X16" CMU PILASTER W/ CONCRETE BOLSTER @BEAM BRG

   (3) - 8"X16" CONCRETE COLUMN

   (4) - 12"X16" CONCRETE COLUMN



2 TYP. C-CHANEL BEARING DETAIL
3/4" = 1'-0"

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312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
2ND FLOOR FRAMING PLAN B1

Date: 10 OCTOBER 2024

Designed By:	DJM	*Drawing No.:*
Drawn By:	WEH	S-112
Checked By:	DJM	

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

PLAN NOTES

1. ELEVATED CONCRETE FLOOR CONSTRUCTION SHALL CONSIST OF 5" TOTAL THICKNESS COMPOSITE FLOOR DECK. CONCRETE SHALL BE 4000 PSI AT 28 DAYS AND SHALL BEAR ON 2" COMPOSITE FLOOR DECK, SEE DETAILS FOR GAUGE AND REINFORCEMENT REQUIREMENTS.
2. FINISH FLOOR ELEVATION = +16'-0"
3. TOP OF STEEL ELEVATION = 15'-7"
4. COORDINATE ALL FLOOR DRAIN (FD) LOCATIONS & SLAB PENETRATIONS WITH PLUMBING DRAWINGS
5. PROVIDE 8X24 CONCRETE BEAM AT +16'-0" TOP OF CONCRETE BEAM, ALL 8" CMU WALLS FOR 2-STORY STRUCTURE

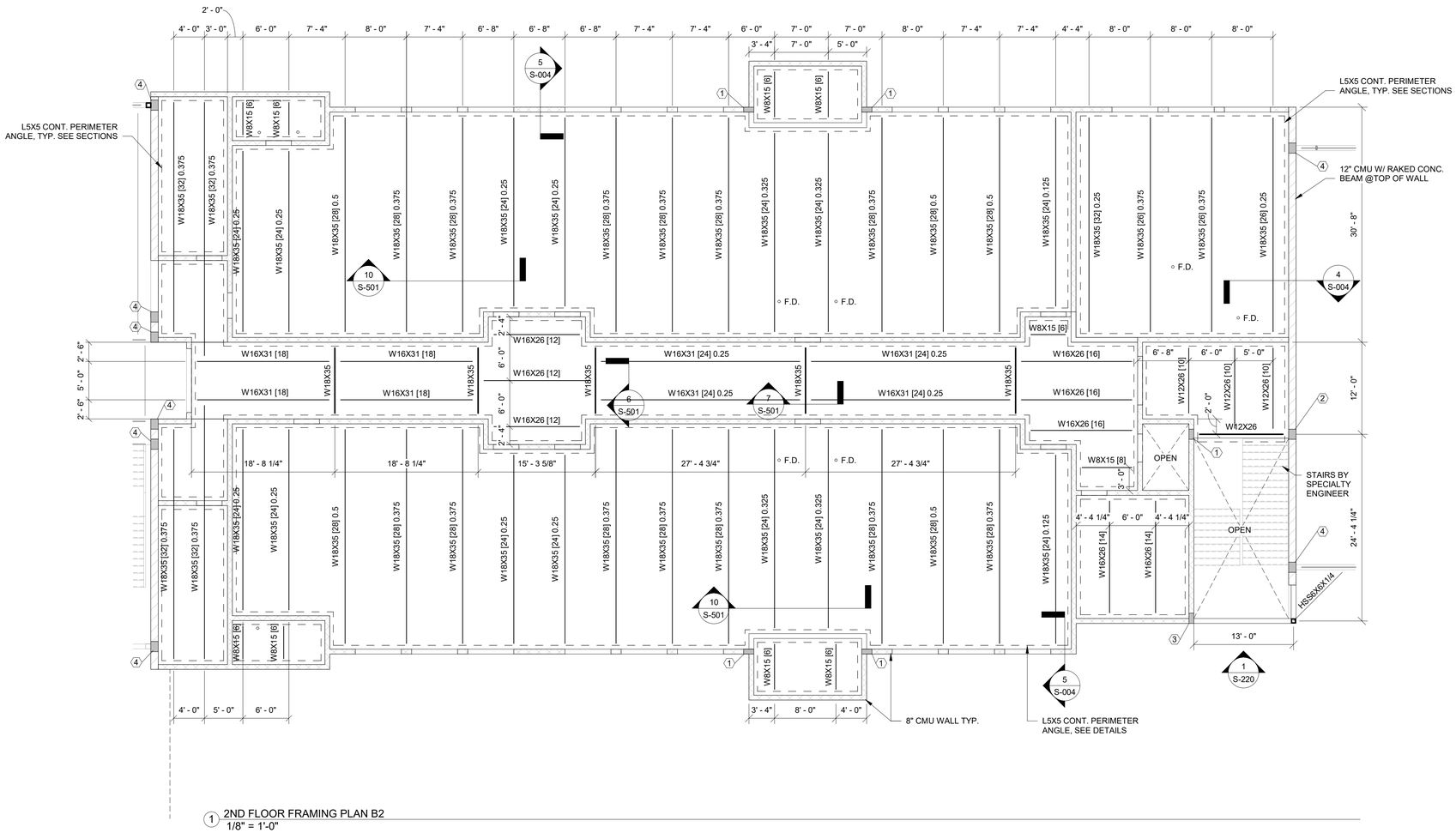
   W18 _____ [# STUDS] CAMBER INCHES

(1) - 8"X16" CMU PILASTER W/ CONCRETE BOLSTER @BEAM BRG

(2) - 12"X16" CMU PILASTER W/ CONCRETE BOLSTER @BEAM BRG

(3) - 8"X16" CONCRETE COLUMN

(4) - 12"X16" CONCRETE COLUMN



(1) 2ND FLOOR FRAMING PLAN B2
1/8" = 1'-0"

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DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County Public Schools
Okaloosa County, Florida

Seal:

DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

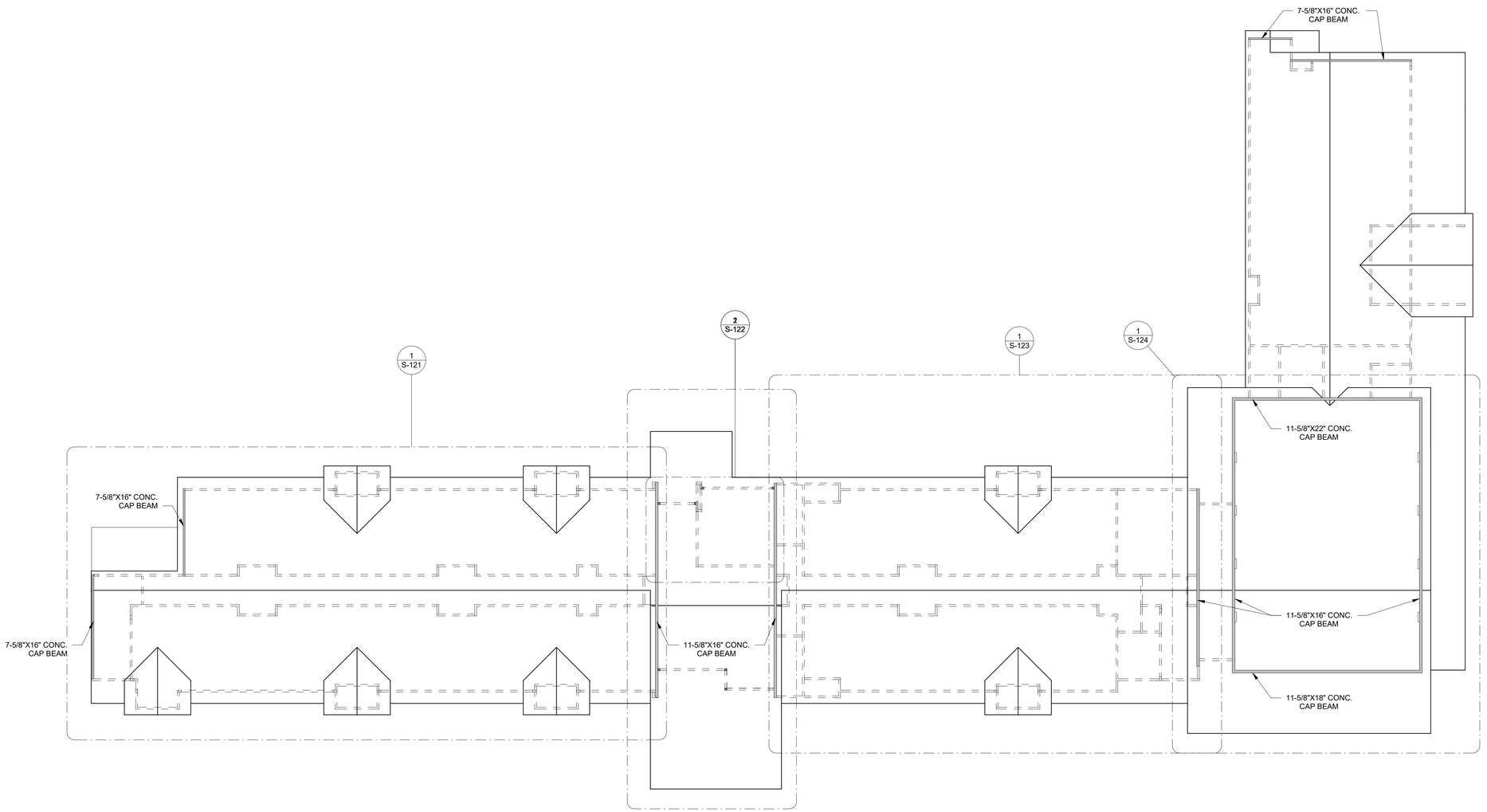
Drawing Title:
2ND FLOOR FRAMING PLAN B2

Date: 10 OCTOBER 2024

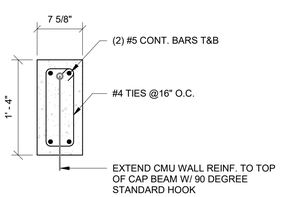
Designed By:	DJM	Drawing No.:
Drawn By:	WEH	S-113
Checked By:	DJM	

ROOF FRAMING PLAN NOTES

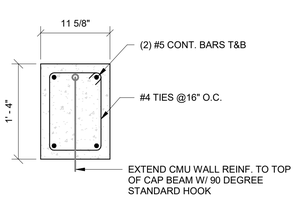
1. COORDINATE ALL ROOF PENETRATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.
2. JOIST BEARING ELEVATION = SEE PLAN
3. SPECIALTY ENGINEER TO PROVIDE UPLIFT BRACING AS REQUIRED.



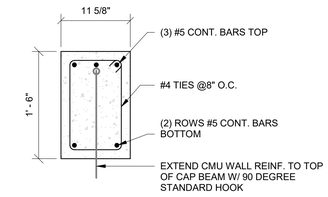
1 OVERALL ROOF FRAMING PLAN
1" = 20'-0"



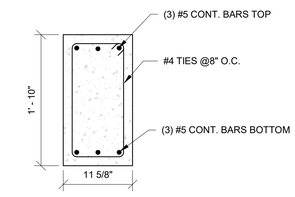
A 7-5/8X16 CONCRETE CAP BEAM
1" = 1'-0"



B 11-5/8X16 CONCRETE CAP BEAM
1" = 1'-0"



C 11-5/8X18 CONCRETE CAP BEAM
1" = 1'-0"



D 11-5/8X22 CONCRETE CAP BEAM
1" = 1'-0"

ROOF DECK PROPERTIES						Fy=50 KSI
DECK TYPE	DECK THICK.	WEIGHT (PSF) PTD.	WEIGHT (PSF) GALV.	I IN 4/ft	SP IN3/ft	SN IN3/ft
1.5B20	0.0358	2.00	2.00	0.217	0.224	0.229

ROOF DECK TO LIGHT GAUGE ATTACHMENT SCHEDULE	
SUPPORT FASTENERS	SIDELAP FASTENERS
#12 TEK SCREWS	#10 TEK SCREWS
36/7 PATTERN	4 PER SPAN

ROOF DECK TO STEEL ATTACHMENT SCHEDULE	
SUPPORT FASTENERS	SIDELAP FASTENERS
X-ENP-19 L15	#10 TEK SCREWS
36/7 PATTERN	4 PER SPAN

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Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

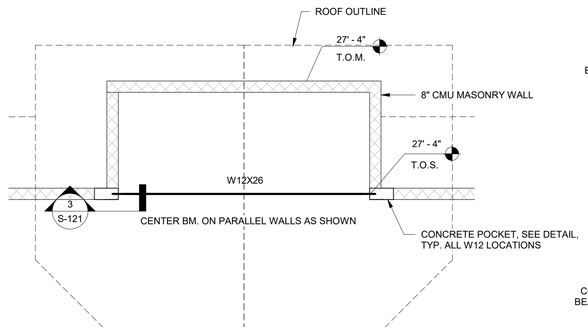
Project No.: 83X98735

Drawing Title:
OVERALL ROOF FRAMING PLAN

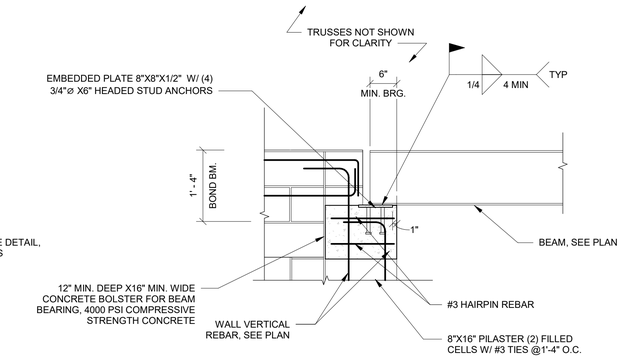
Date: 10 OCTOBER 2024

Designed By: DJM
Drawn By: WEH
Checked By: DJM

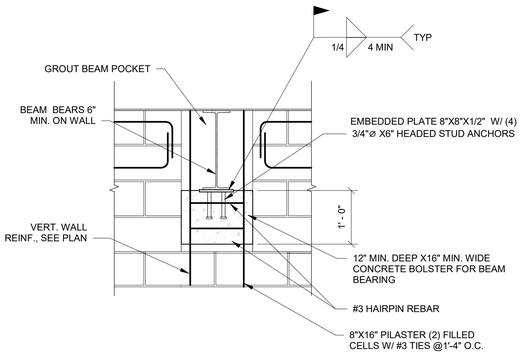
Drawing No.: S-120



2 W12 BEAM FRAMING AT TRUSS BRG. PLAN
1/4" = 1'-0"



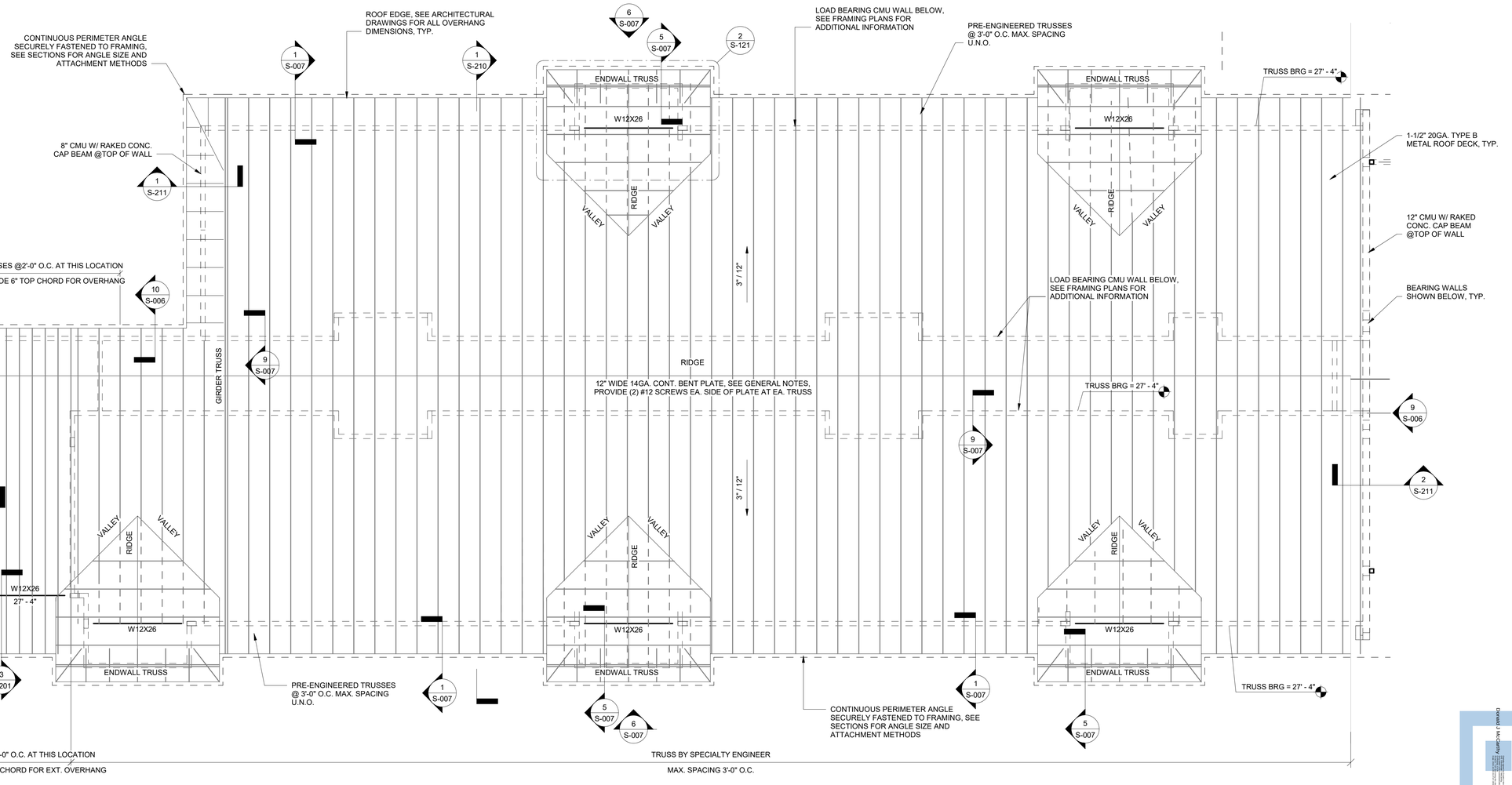
3 W12 BEAM BEARING AT TRUSS BRG.
3/4" = 1'-0"



4 WBEAM BEARING PERPINDICULAR TO WALL AT TRUSS BRG.
3/4" = 1'-0"

ROOF FRAMING PLAN NOTES

1. ROOF DECK SHALL BE 1-1/2" 20 GAUGE, TYPE B GALVANIZED METAL ROOF DECK CONFORMING TO THE STEEL DECK INSTITUTE (SDI) RECOMMENDED PRACTICE. FASTEN WITH 36/7 FASTENER LAYOUT USING #12 SCREWS AT ALL SUPPORTS (PROVIDE (2) FASTENERS IN ZONE 3) AND PERIMETER ANGLES & (4) #10 SCREWS AT SIDE LAPS BETWEEN SUPPORTS TYP., AND ALL SCREWS SHALL BE BUILDEX TEK SELF DRILLING W/ HEX HEAD WASHER OR APPROVED EQUIVALENT, TYP. U.N.O.
2. COORDINATE ALL ROOF PENETRATIONS WITH MECHANICAL, PLUMBING, AND ARCHITECTURAL DRAWINGS, RE: STRUCTURAL STEEL DETAILS FOR ADDITIONAL FRAMING AROUND ALL ROOF OPENINGS.
3. JOIST/ TRUSS ELEVATION = SEE SECTIONS & PLANS
4. SPECIALTY ENGINEER TO PROVIDE UPLIFT BRACING AS REQUIRED. RE: GENERAL NOTES FOR REQUIREMENTS. BRIDGING NOT SHOWN FOR CLARITY. JOIST AND TRUSS MANUFACTURER TO PROVIDE ALL NECESSARY BRIDGING.
5. JOIST AND TRUSS MANUFACTURER TO PROVIDE JOISTS AND TRUSSES TO SUPPORT ADDITIONAL 500 LB LOAD AT ANY PANEL POINT AT LOCATIONS OF MECHANICAL UNITS FRAMING BELOW STRUCTURE.
6. ALL TRUSSES MAX SPACING SHALL NOT EXCEED 3'-0" O.C., U.N.O. CONTRACTOR TO COORDINATE EDGE OF DECK WITH ANGLE. THIS SHALL BE VERIFIED BY THE CONTRACTOR ON ALL SHOP DRAWINGS PRIOR TO SUBMISSION TO THE ARCHITECT/ ENGINEER. THE LIGHT GAGE SPECIALTY ENGINEER SHALL COORDINATE SOFFIT EDGES TO ENSURE SOFFIT ALIGNS BASED ON MAXIMUM THICKNESS SHOWN.
7. SEE ARCH. FOR OVERHANG DIMENSIONS.
8. CENTER W12X26 ON MASONRY WALL.
9. ► = MOMENT CONNECTION



1 ROOF FRAMING PLAN A
1/8" = 1'-0"

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4008 Legendary Drive Suite 600 Destin, FL 32541

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312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida

Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

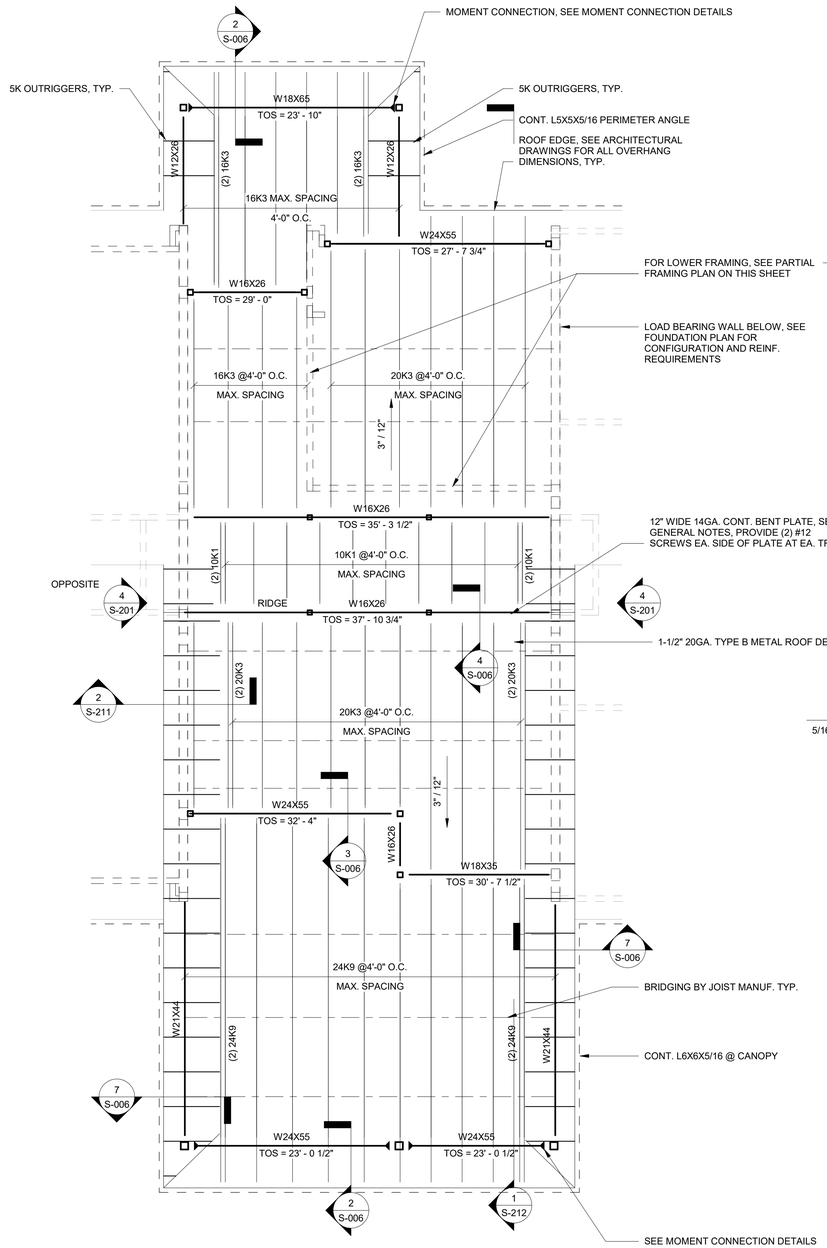
DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
ROOF FRAMING PLAN A

Date: 10 OCTOBER 2024

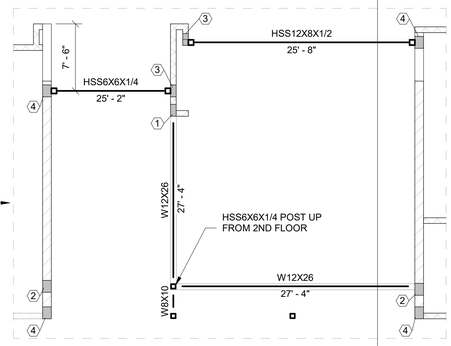
Designed By:	DJM	*Drawing No.:*
Drawn By:	WEH	S-121
Checked By:	DJM	



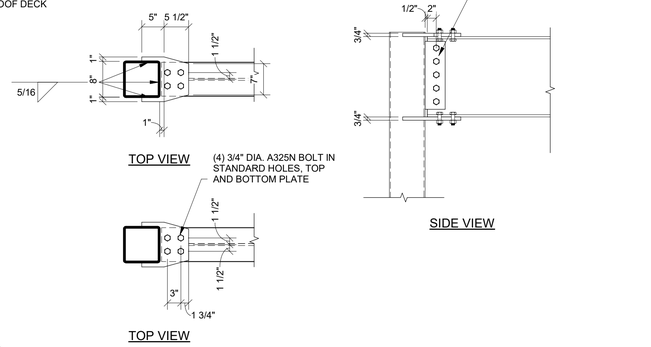
1 ROOF FRAMING PLAN B1
1/8" = 1'-0"

PARTIAL PLAN NOTES:

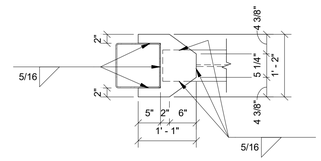
1. INFORMATION SHOWN ONLY FOR INTERIOR OF BUILDING AT ELEVATION OF +27'-4" FOR STOREFRONT FRAMING

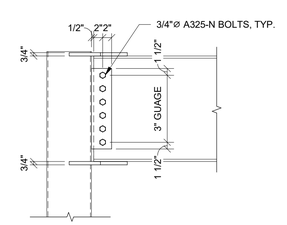


2 ROOF FRAMING PLAN NO. B1 PARTIAL VIEW
1/8" = 1'-0"



3 MOMENT CONNECTION W18X65
3/4" = 1'-0"





4 MOMENT CONNECTION W24X55
3/4" = 1'-0"

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ROOF FRAMING PLAN NOTES

1. ROOF DECK SHALL BE 1-1/2" 20 GAUGE, TYPE B GALVANIZED METAL ROOF DECK CONFORMING TO THE STEEL DECK INSTITUTE (SDI) RECOMMENDED PRACTICE. FASTEN WITH 36/7 FASTENER LAYOUT USING #12 SCREWS AT ALL SUPPORTS (PROVIDE (2) FASTENERS IN ZONE 3) AND PERIMETER ANGLES & (4) #10 SCREWS AT SIDE LAPS BETWEEN SUPPORTS TYP., AND ALL SCREWS SHALL BE BUILDEX TEK SELF DRILLING W/ HEX HEAD WASHER OR APPROVED EQUIVALENT, TYP. U.N.O. FOR ATTACHMENT TO JOISTS, HILTI X-HSN 24 WITH SAME FREQUENCY.
2. COORDINATE ALL ROOF PENETRATIONS WITH MECHANICAL, PLUMBING, AND ARCHITECTURAL DRAWINGS, RE: STRUCTURAL STEEL DETAILS FOR ADDITIONAL FRAMING AROUND ALL ROOF OPENINGS.
3. JOIST ELEVATION = SEE SECTIONS & PLANS
4. SPECIALTY ENGINEER TO PROVIDE UPLIFT BRACING AS REQUIRED, RE: GENERAL NOTES FOR REQUIREMENTS. BRIDGING NOT SHOWN FOR CLARITY. JOIST AND TRUSS MANUFACTURER TO PROVIDE ALL NECESSARY BRIDGING.
5. JOIST AND TRUSS MANUFACTURER TO PROVIDE JOISTS AND TRUSSES TO SUPPORT ADDITIONAL 500 LB LOAD AT ANY PANEL POINT AT LOCATIONS OF MECHANICAL UNITS.
6. ALL JOIST AND TRUSSES MAX SPACING SHALL NOT EXCEED 4'-0" O.C., U.N.O. CONTRACTOR TO COORDINATE EDGE OF DECK WITH ANGLE. THIS SHALL BE VERIFIED BY THE CONTRACTOR ON ALL SHOP DRAWINGS PRIOR TO SUBMISSION TO THE ARCHITECT/ ENGINEER.
7. SEE ARCH. FOR OVERHANG DIMENSIONS.
8. ► = MOMENT CONNECTION

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Revision:

Date:	By:	Description:

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Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

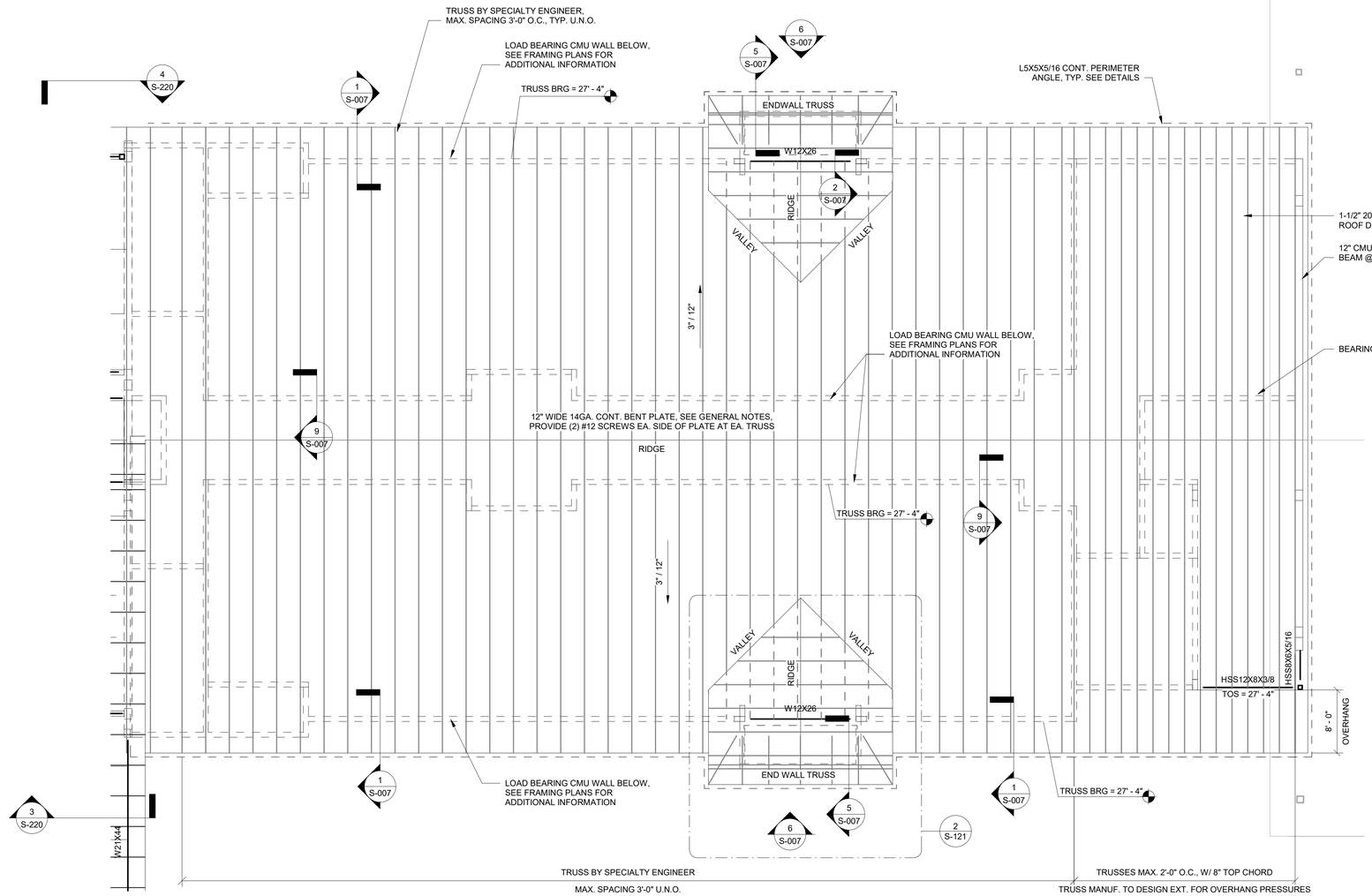
DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
ROOF FRAMING PLAN B1

Date: 10 OCTOBER 2024

Designed By:	DJM	*Drawing No.:*
Drawn By:	WEH	S-122
Checked By:	DJM	



1 ROOF FRAMING PLAN B2
1/8" = 1'-0"

ROOF FRAMING PLAN NOTES

1. ROOF DECK SHALL BE 1-1/2" 20 GAUGE, TYPE B GALVANIZED METAL ROOF DECK CONFORMING TO THE STEEL DECK INSTITUTE (SDI) RECOMMENDED PRACTICE. FASTEN WITH 36/7 FASTENER LAYOUT USING #12 SCREWS AT ALL SUPPORTS (PROVIDE (2) FASTENERS IN ZONE 3) AND PERIMETER ANGLES & (4) #10 SCREWS AT SIDE LAPS BETWEEN SUPPORTS TYP., AND ALL SCREWS SHALL BE BUILDEX TEK SELF DRILLING W/ HEX HEAD WASHER OR APPROVED EQUIVALENT, TYP. U.N.O.
2. COORDINATE ALL ROOF PENETRATIONS WITH MECHANICAL, PLUMBING, AND ARCHITECTURAL DRAWINGS, RE: STRUCTURAL STEEL DETAILS FOR ADDITIONAL FRAMING AROUND ALL ROOF OPENINGS.
3. JOIST/ TRUSS ELEVATION = SEE SECTIONS & PLANS
4. SPECIALTY ENGINEER TO PROVIDE UPLIFT BRACING AS REQUIRED, RE: GENERAL NOTES FOR REQUIREMENTS. BRIDGING NOT SHOWN FOR CLARITY. JOIST AND TRUSS MANUFACTURER TO PROVIDE ALL NECESSARY BRIDGING.
5. JOIST AND TRUSS MANUFACTURER TO PROVIDE JOISTS AND TRUSSES TO SUPPORT ADDITIONAL 500 LB LOAD AT ANY PANEL POINT AT LOCATIONS OF MECHANICAL UNITS.
6. ALL JOIST MAX SPACING SHALL NOT EXCEED 4'-0" O.C., U.N.O. AND ALL TRUSS MAX. SPACING SHALL NOT EXCEED 3'-0" O.C., U.N.O. CONTRACTOR TO COORDINATE EDGE OF DECK WITH ANGLE. THIS SHALL BE VERIFIED BY THE CONTRACTOR ON ALL SHOP DRAWINGS PRIOR TO SUBMISSION TO THE ARCHITECT/ ENGINEER.
7. SEE ARCH. FOR OVERHANG DIMENSIONS.

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Okaloosa County Public Schools
Okaloosa County, Florida

Seal:
DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
ROOF FRAMING PLAN B2

Date: 10 OCTOBER 2024

Designed By:	DJM	Drawing No.:
Drawn By:	WEH	S-123
Checked By:	DJM	

ROOF FRAMING PLAN NOTES

1. ROOF DECK SHALL BE 1-1/2" 20 GAUGE, TYPE B GALVANIZED METAL ROOF DECK CONFORMING TO THE STEEL DECK INSTITUTE (SDI) RECOMMENDED PRACTICE. FASTEN WITH 36/7 FASTENER LAYOUT USING #12 SCREWS AT ALL SUPPORTS (PROVIDE (2) FASTENERS IN ZONE 3) AND PERIMETER ANGLES & (4) #10 SCREWS AT SIDE LAPS BETWEEN SUPPORTS TYP., AND ALL SCREWS SHALL BE BUILDEX TEK SELF DRILLING W/ HEX HEAD WASHER OR APPROVED EQUIVALENT, TYP. U.N.O.
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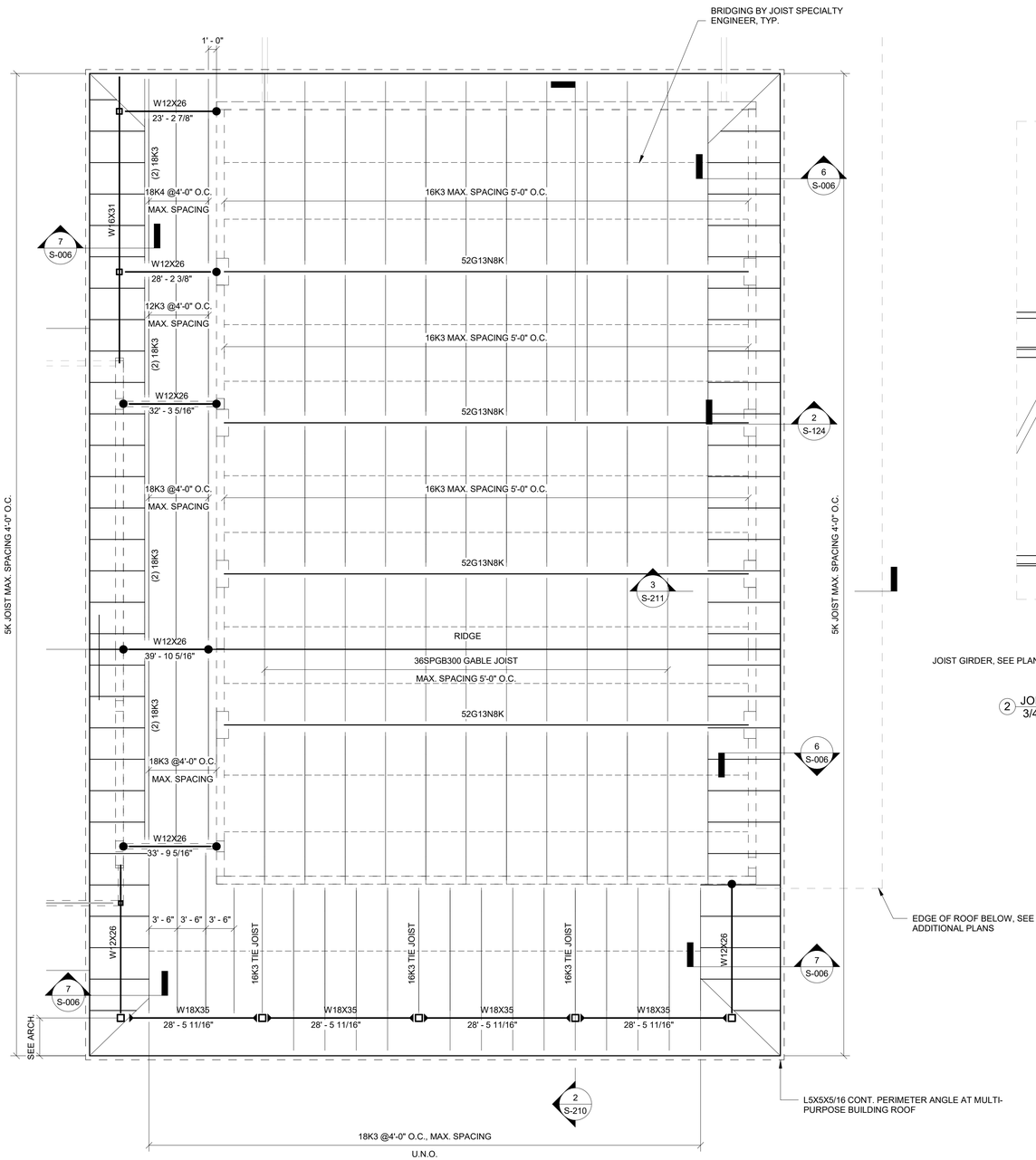
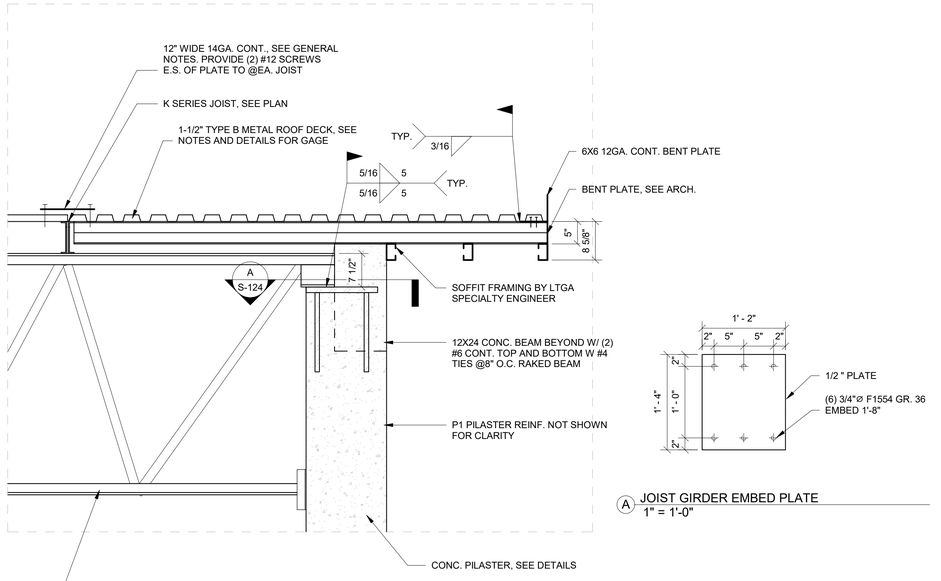
6. ALL JOIST MAX SPACING SHALL NOT EXCEED 4'-0" O.C., U.N.O. AND ALL TRUSS MAX. SPACING SHALL NOT EXCEED 3'-0" O.C., U.N.O. CONTRACTOR TO COORDINATE EDGE OF DECK WITH ANGLE. THIS SHALL BE VERIFIED BY THE CONTRACTOR ON ALL SHOP DRAWINGS PRIOR TO SUBMISSION TO THE ARCHITECT/ ENGINEER.
7. SEE ARCH. FOR OVERHANG DIMENSIONS.

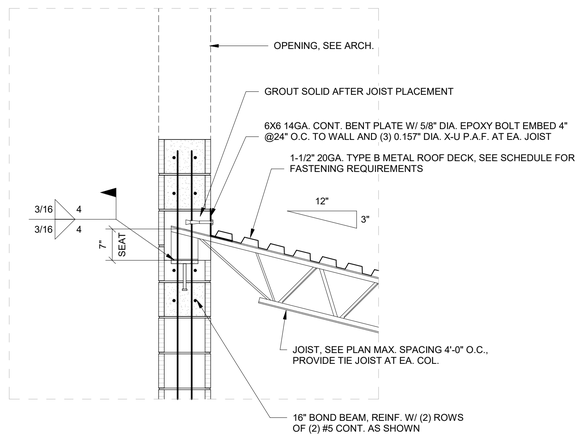


1 ROOF FRAMING PLAN C
1/8" = 1'-0"



2 JOIST GIRDER TO PILASTER DETAIL
3/4" = 1'-0"

A JOIST GIRDER EMBED PLATE
1" = 1'-0"



3 MULTIPURPOSE BLDG. SECTION NO. 2 - Callout A
3/4" = 1'-0"

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Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

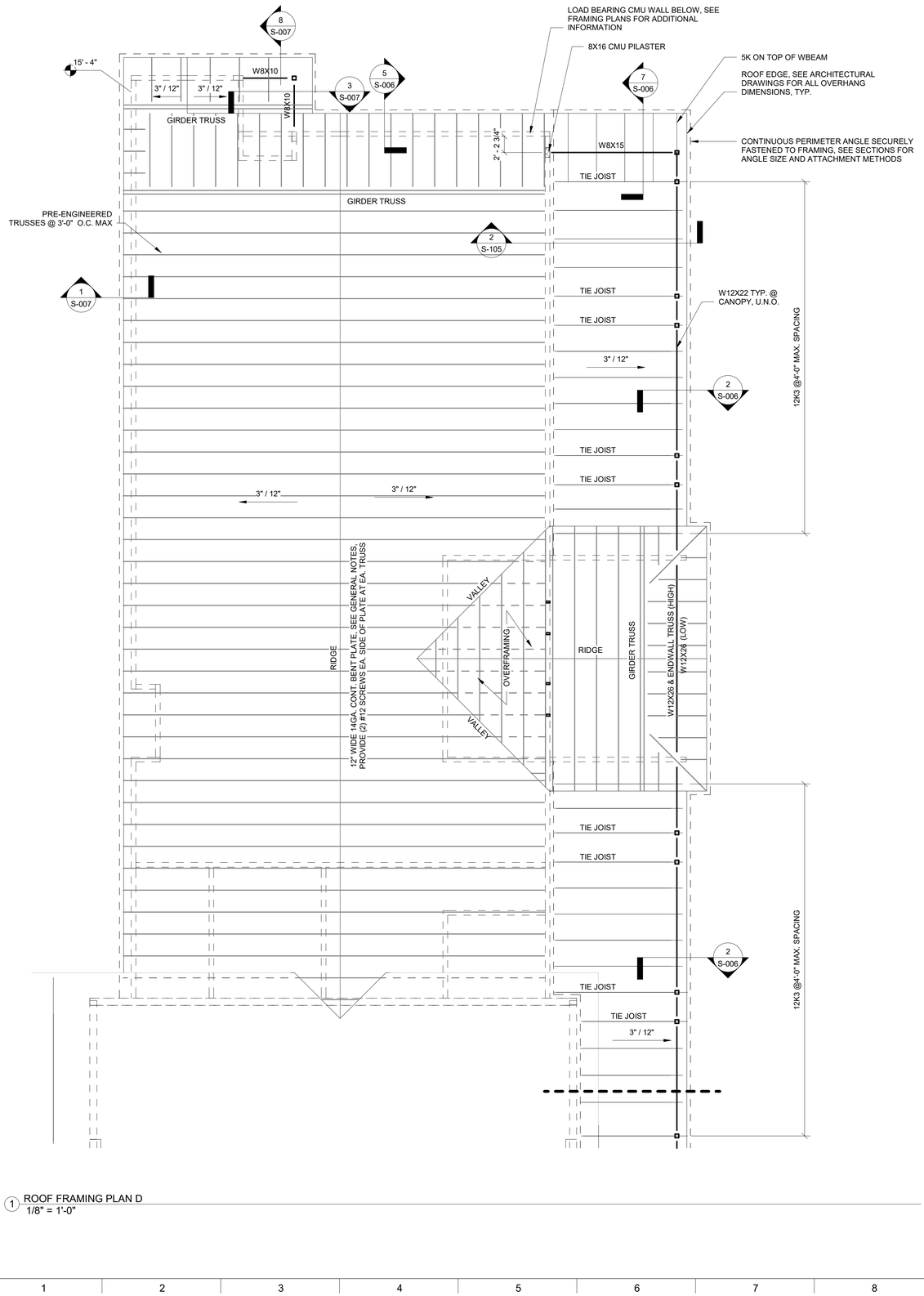
DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

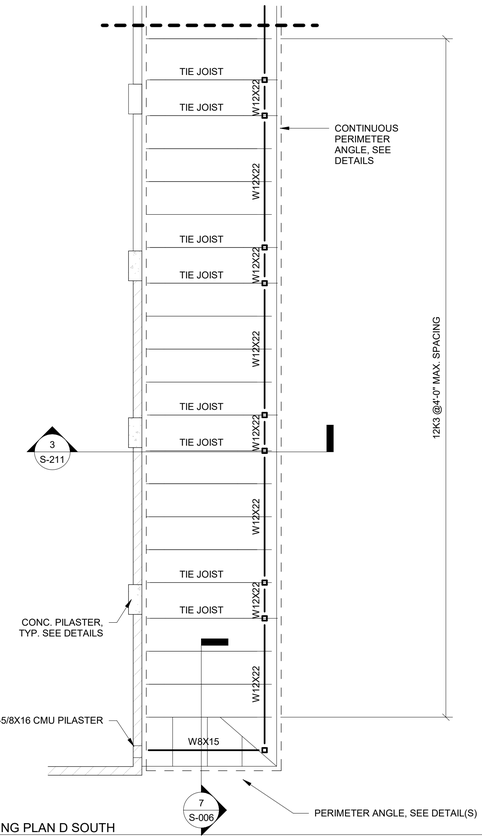
Drawing Title:
ROOF FRAMING PLAN C

Date: 10 OCTOBER 2024

Designed By:	DJM	*Drawing No.:*
Drawn By:	WEH	S-124
Checked By:	DJM	



1 ROOF FRAMING PLAN D
1/8" = 1'-0"



2 ROOF FRAMING PLAN D SOUTH
1/8" = 1'-0"

ROOF FRAMING PLAN NOTES

1. ROOF DECK SHALL BE 1-1/2" 20 GAUGE, TYPE B GALVANIZED METAL ROOF DECK CONFORMING TO THE STEEL DECK INSTITUTE (SDI) RECOMMENDED PRACTICE. FASTEN WITH 36/7 FASTENER LAYOUT USING #12 SCREWS AT ALL SUPPORTS (PROVIDE (2) FASTENERS IN ZONE 3) AND PERIMETER ANGLES & (4) #10 SCREWS AT SIDE LAPS BETWEEN SUPPORTS TYP., AND ALL SCREWS SHALL BE BUILDEX TEK SELF DRILLING W/ HEX HEAD WASHER OR APPROVED EQUIVALENT, TYP. U.N.O.
2. COORDINATE ALL ROOF PENETRATIONS WITH MECHANICAL, PLUMBING, AND ARCHITECTURAL DRAWINGS, RE: STRUCTURAL STEEL DETAILS FOR ADDITIONAL FRAMING AROUND ALL ROOF OPENINGS.
3. JOIST/ TRUSS ELEVATION = SEE SECTIONS & PLANS
4. SPECIALTY ENGINEER TO PROVIDE UPLIFT BRACING AS REQUIRED, RE: GENERAL NOTES FOR REQUIREMENTS. BRIDGING NOT SHOWN FOR CLARITY. JOIST AND TRUSS MANUFACTURER TO PROVIDE ALL NECESSARY BRIDGING.
5. JOIST AND TRUSS MANUFACTURER TO PROVIDE JOISTS AND TRUSSES TO SUPPORT ADDITIONAL 500 LB LOAD AT ANY PANEL POINT AT LOCATIONS OF MECHANICAL UNITS.
6. ALL JOIST MAX SPACING SHALL NOT EXCEED 4'-0" O.C., AND TRUSSES MAX SPACING SHALL NOT EXCEED 3'-0" O.C., U.N.O. CONTRACTOR TO COORDINATE EDGE OF DECK WITH ANGLE. THIS SHALL BE VERIFIED BY THE CONTRACTOR ON ALL SHOP DRAWINGS PRIOR TO SUBMISSION TO THE ARCHITECT/ ENGINEER.
7. SEE ARCH. FOR OVERHANG DIMENSIONS.

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Destin, Florida

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Okaloosa County, Florida

OKALOOSA COUNTY DISTRICT SCHOOLS

Seal:

DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
ROOF FRAMING PLAN D

Date: 10 OCTOBER 2024

Designed By:	DJM	*Drawing No.:*
Drawn By:	WEH	S-125
Checked By:	DJM	

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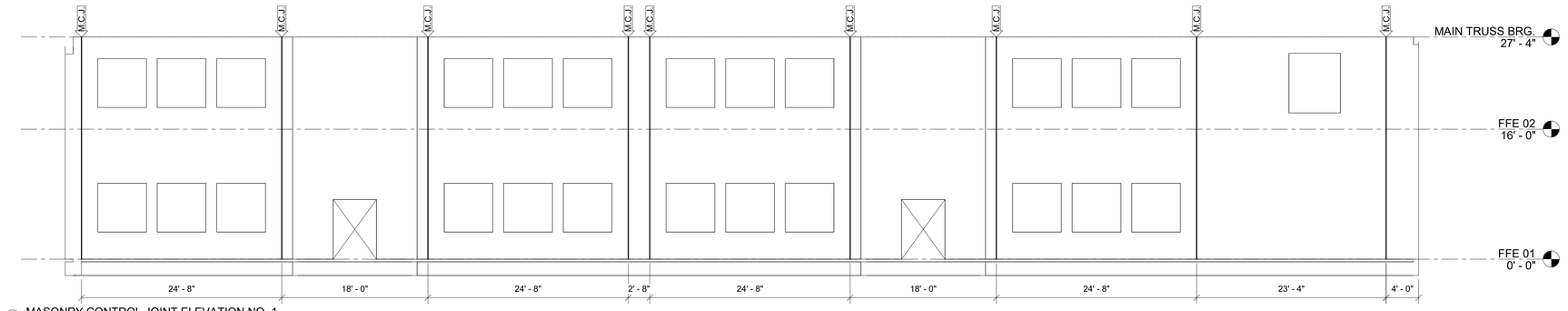
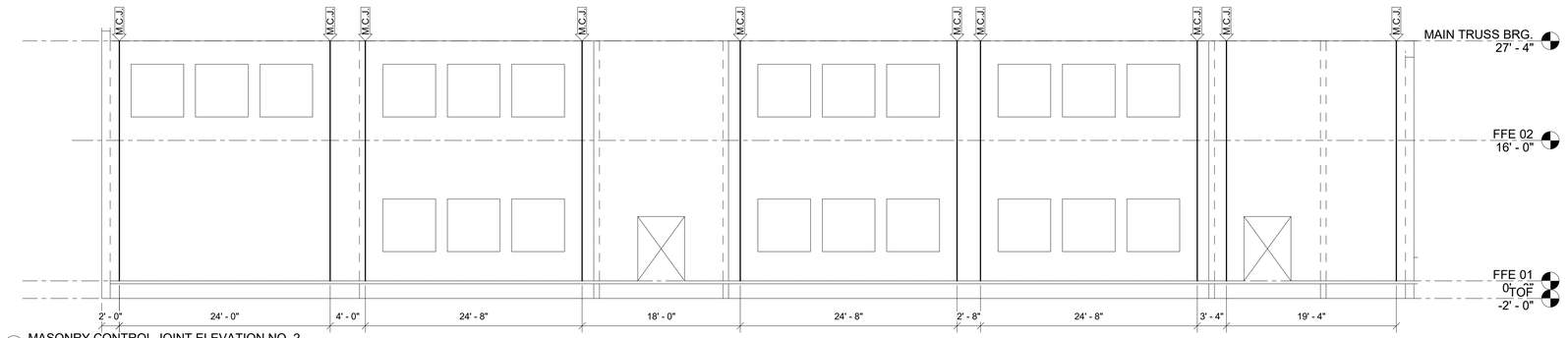
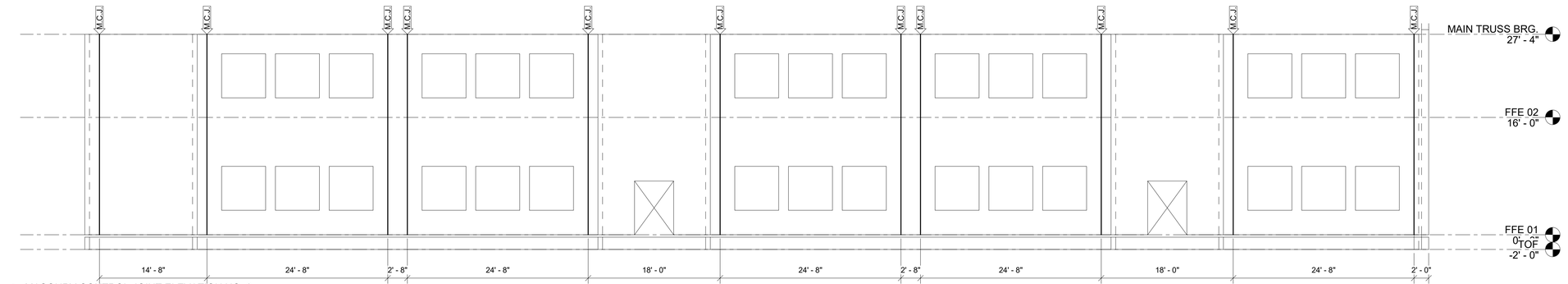


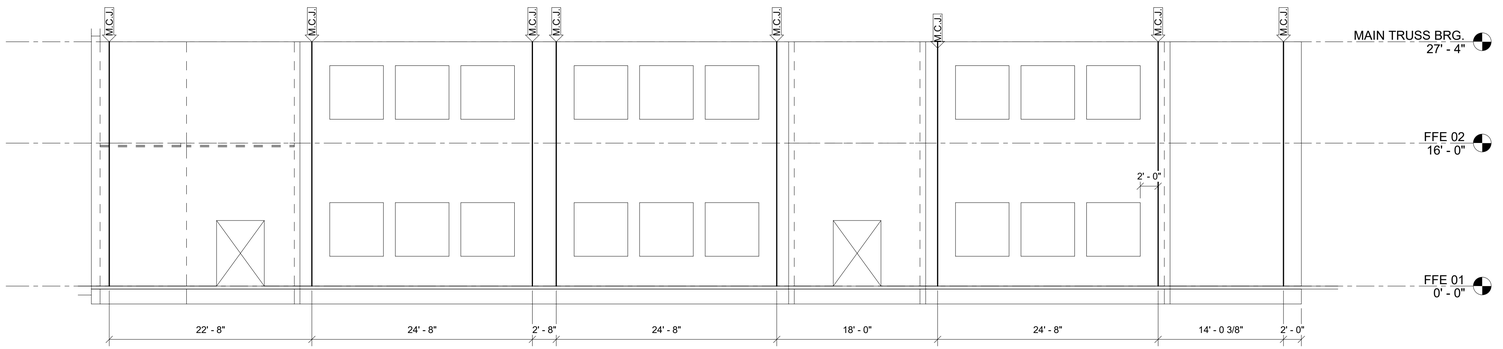
1 MASONRY CONTROL JOINT ELEVATION NO. 1
1/8" = 1'-0"



2 MASONRY CONTROL JOINT ELEVATION NO. 2
1/8" = 1'-0"



3 MASONRY CONTROL JOINT ELEVATION NO. 3
1/8" = 1'-0"



4 MASONRY CONTROL JOINT ELEVATION NO. 4
1/8" = 1'-0"

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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOLS

Seal:

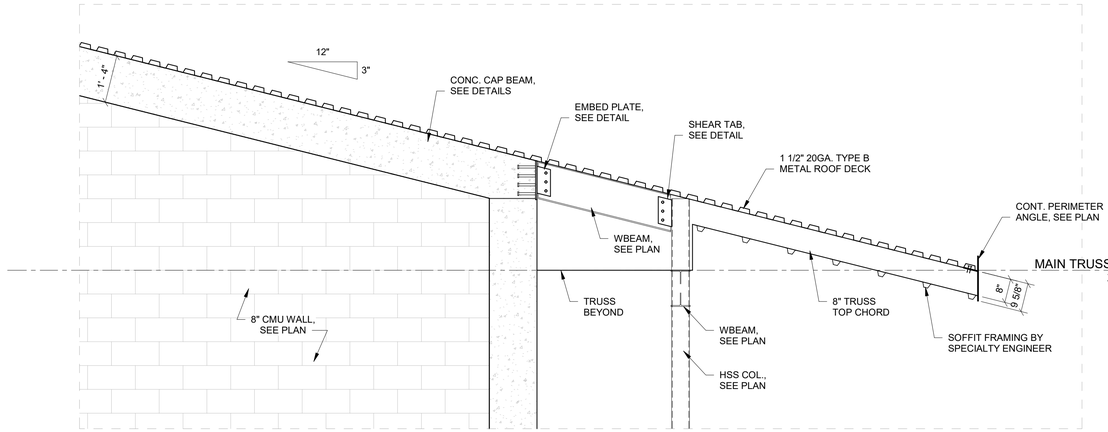
DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

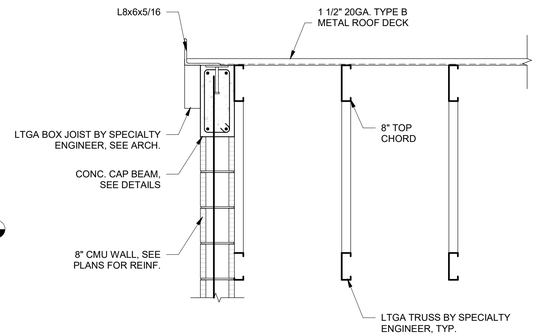
Drawing Title:
MASONRY CONTROL JOINT ELEVATIONS

Date: 10 OCTOBER 2024

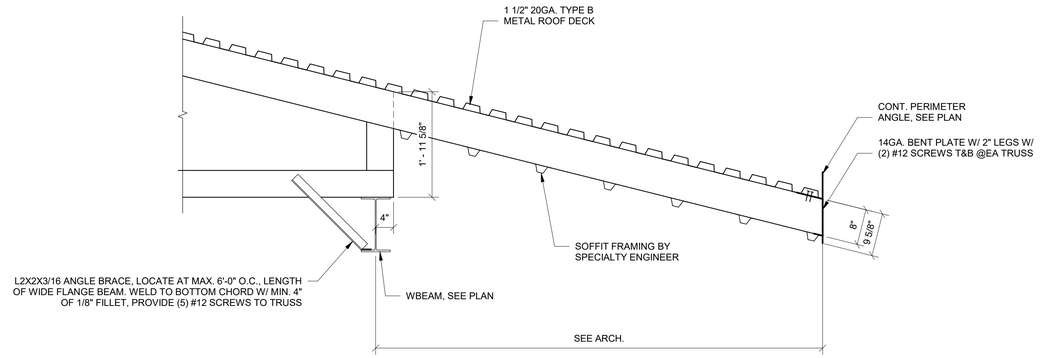
Designed By:	DJM	Drawing No.:
Drawn By:	WEH	S-200
Checked By:	DJM	



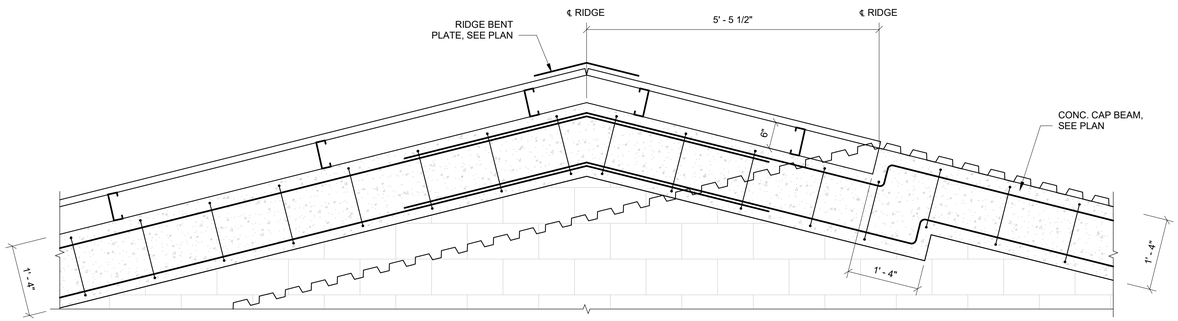
1 SECTION AT HIGH ROOF FRAMING OVER BEAM NO. 1
1/2" = 1'-0"



2 STRUCTURAL DETAIL
3/4" = 1'-0"



3 ROOF FRAMING PLAN NO. 1 - SECTION NO. 1
3/4" = 1'-0"



4 ROOF FRAMING PLAN NO. 2 - Section 1
3/4" = 1'-0"

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Revision:

Date:	By:	Description:

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3/4/5 CENTER
Destin, Florida
Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

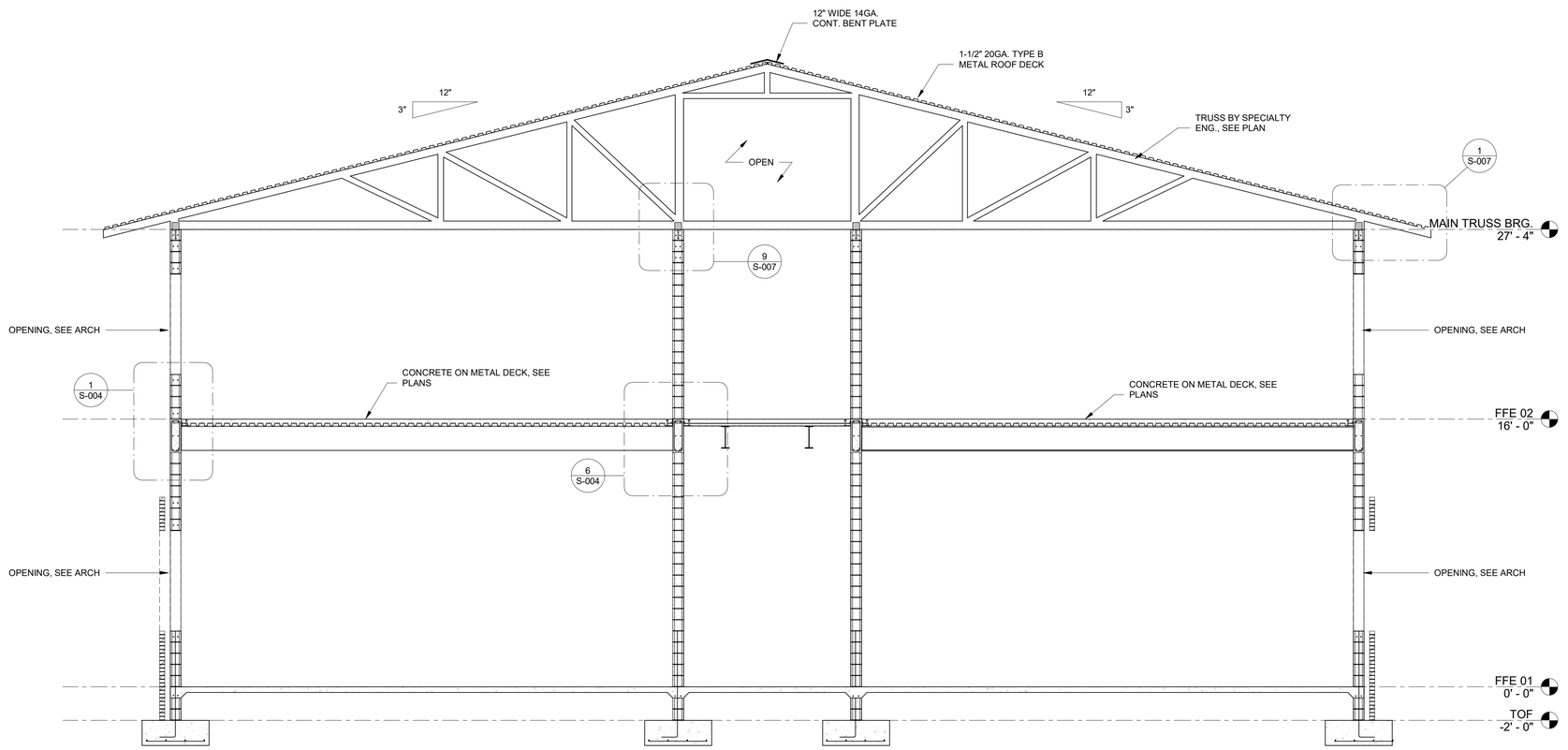
DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

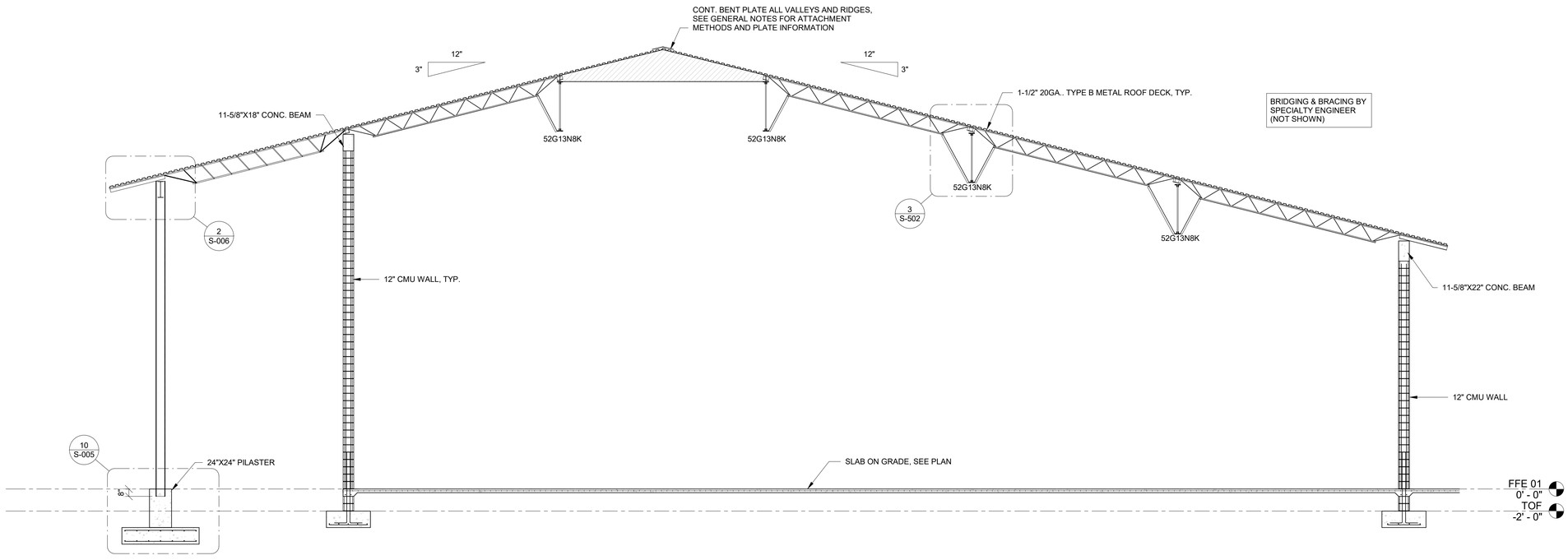
Drawing Title:
STRUCTURAL BEAM TO WALL CONNECTION(S)

Date: 10 OCTOBER 2024

Designed By:	DJM	Drawing No.:
Drawn By:	WEH	S-201
Checked By:	DJM	



1 SECTION NO. 1
1/4" = 1'-0"



2 MULTIPURPOSE BLDG. SECTION NO. 1
3/16" = 1'-0"

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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
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Destin, Florida
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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

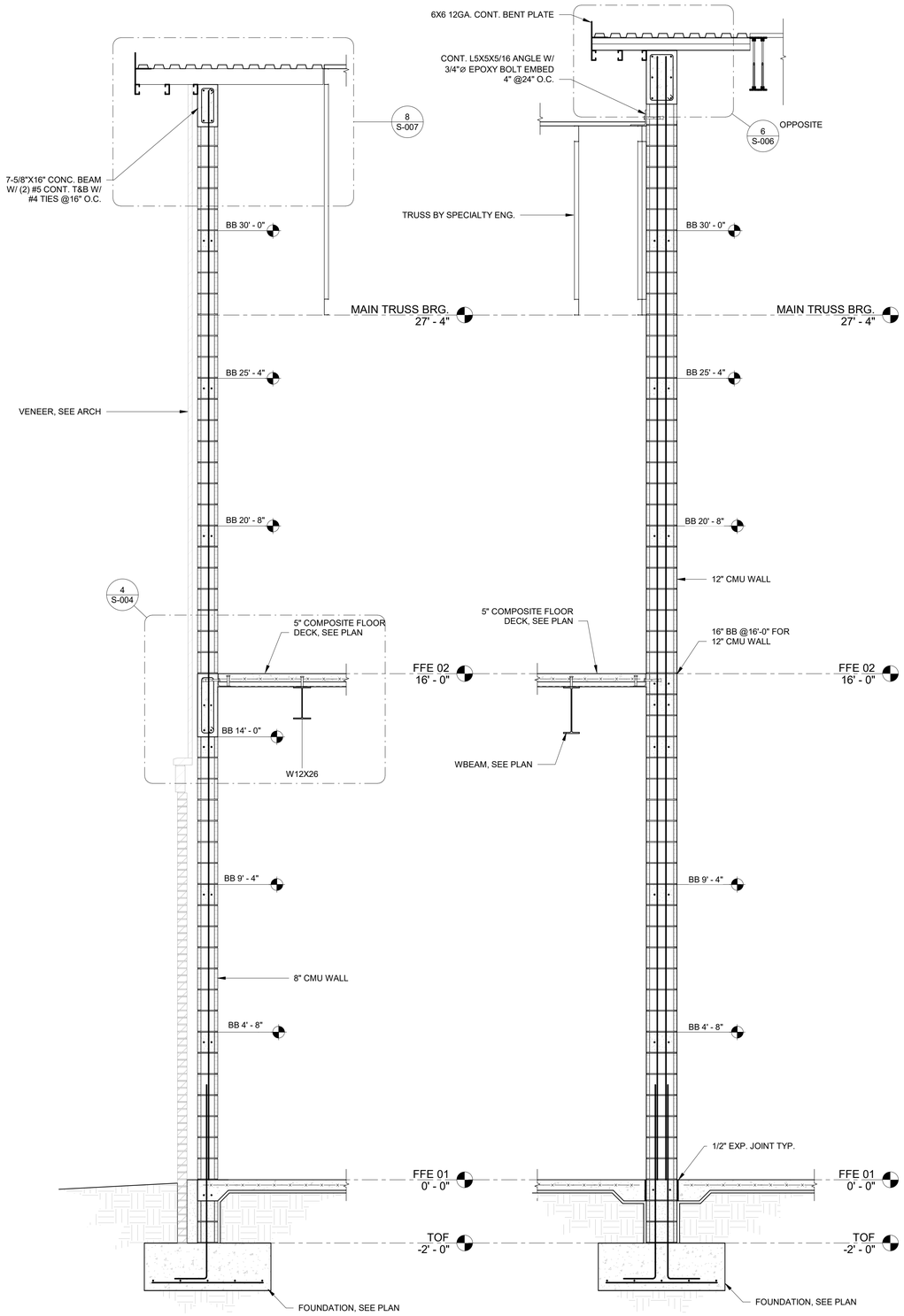
DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
STRUCTURAL SECTION(S)

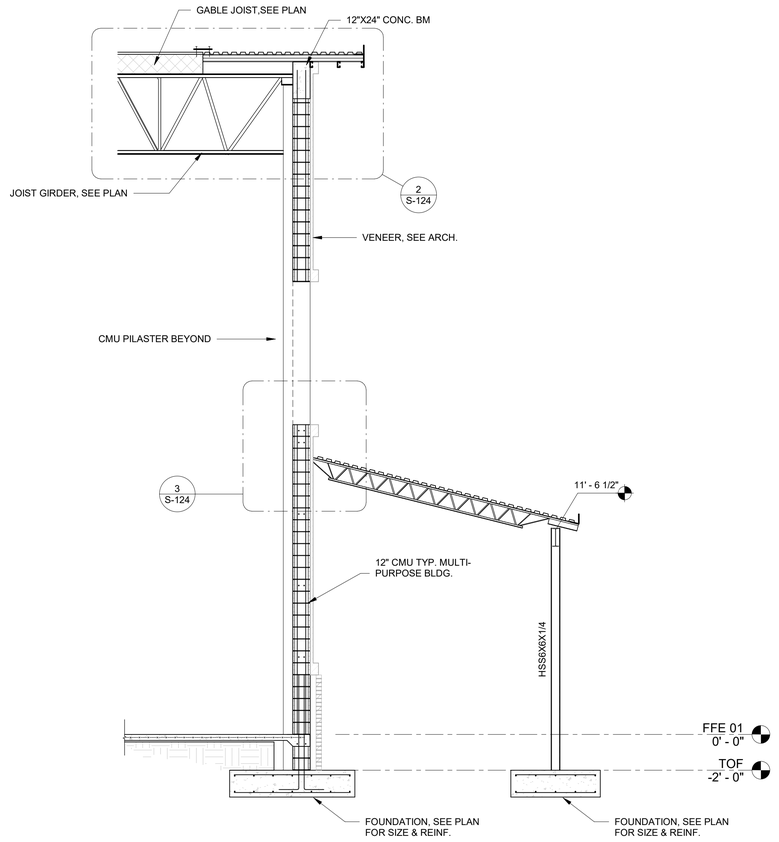
Date: 10 OCTOBER 2024

Designed By:	DJM	Drawing No.:
Drawn By:	WEH	S-210
Checked By:	DJM	



1 Section 3
1/2" = 1'-0"

2 Section 19
1/2" = 1'-0"



3 MULTIPURPOSE BLDG. SECTION NO. 2
1/4" = 1'-0"

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Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida

Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

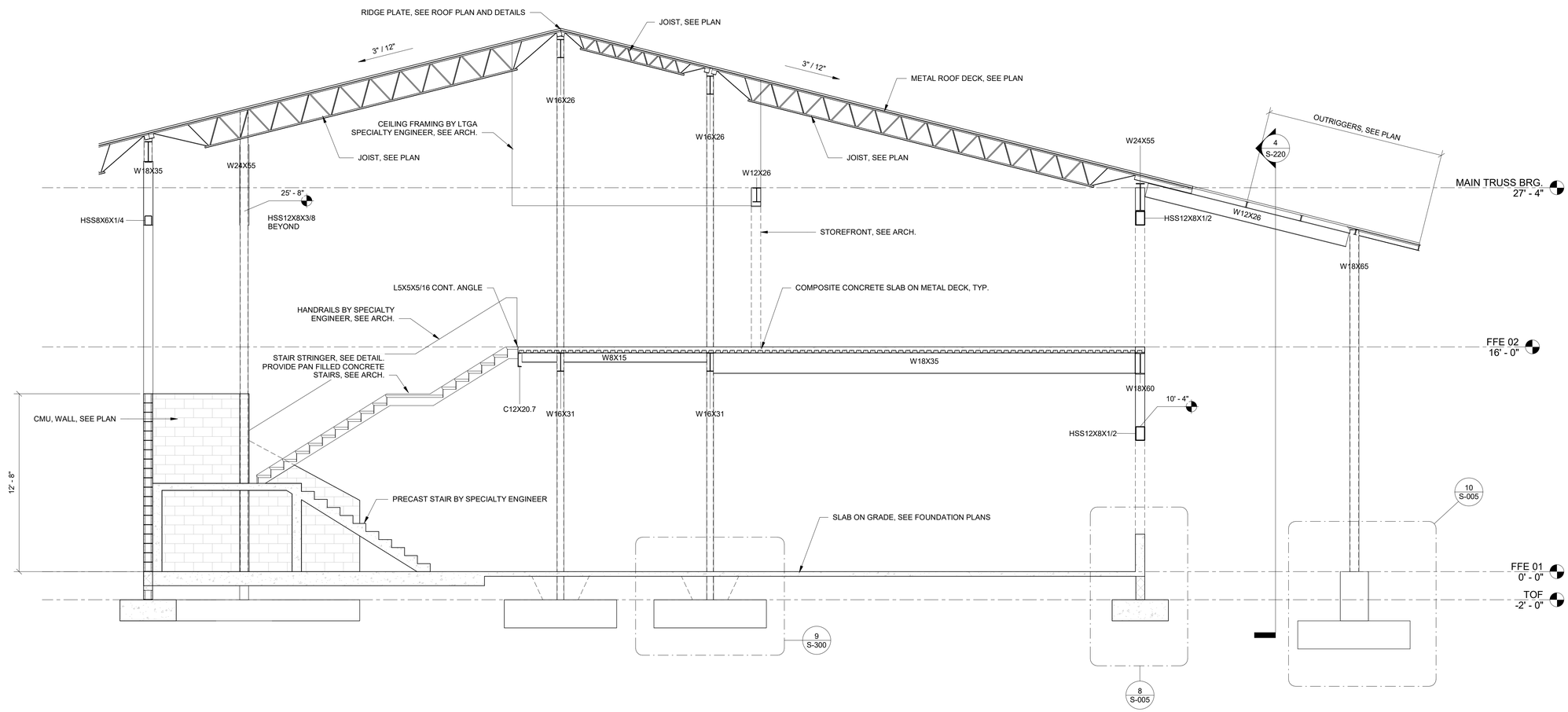
Seal:
DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
STRUCTURAL SECTION(S)

Date: 10 OCTOBER 2024

Designed By:	DJM	Drawing No.:
Drawn By:	WEH	S-211
Checked By:	DJM	



1 SECTION THRU ATRIUM
1/4" = 1'-0"

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Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida

Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

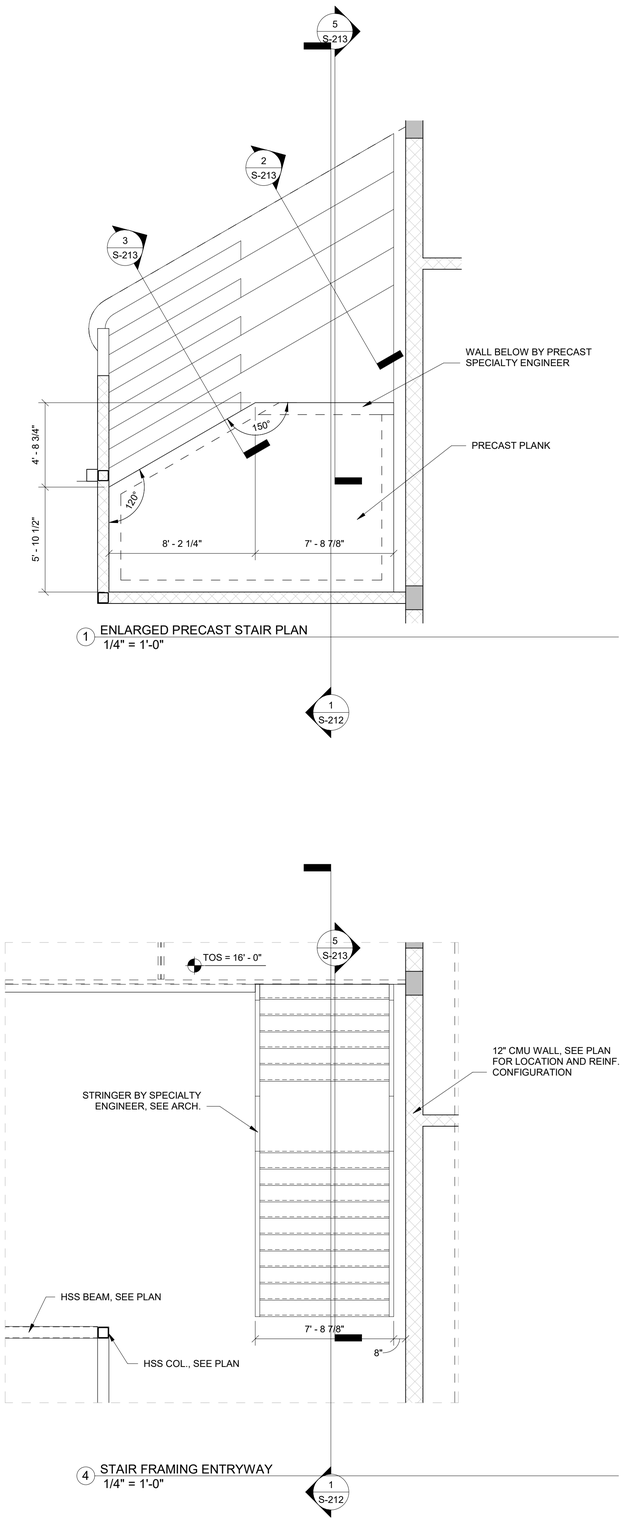
DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

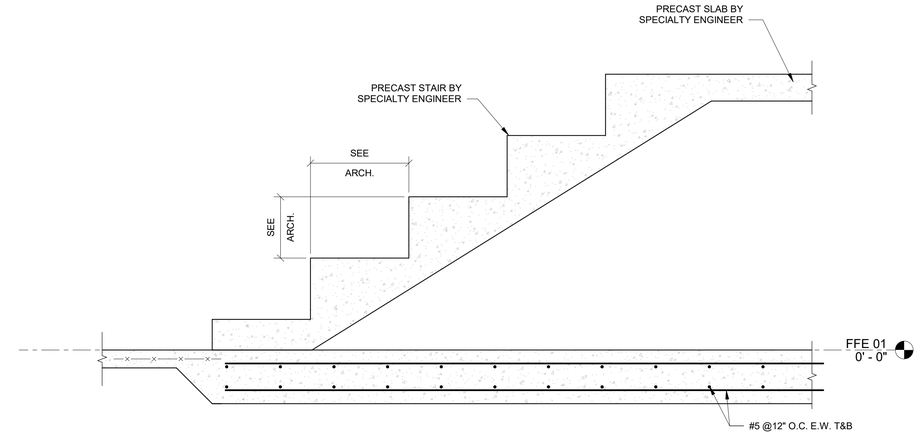
Drawing Title:
STRUCTURAL SECTION(S)

Date: 10 OCTOBER 2024

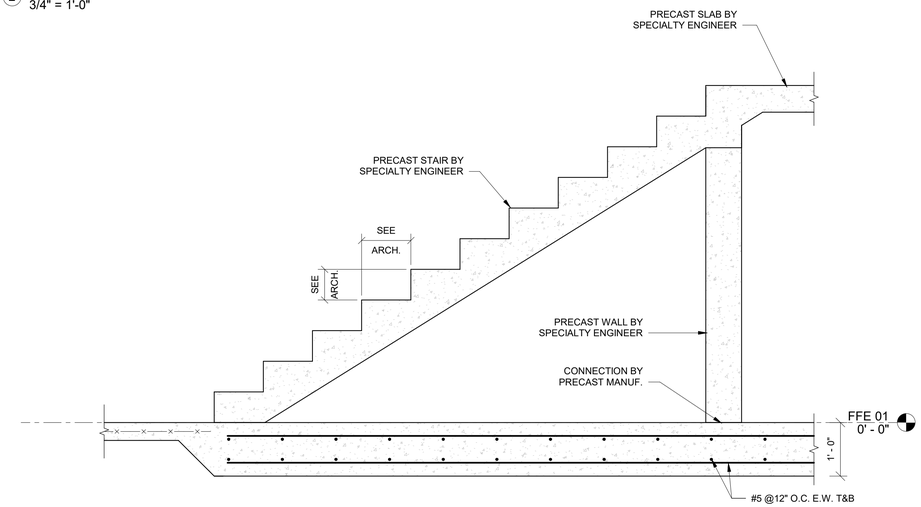
Designed By:	DJM	Drawing No.:
Drawn By:	WEH	S-212
Checked By:	DJM	



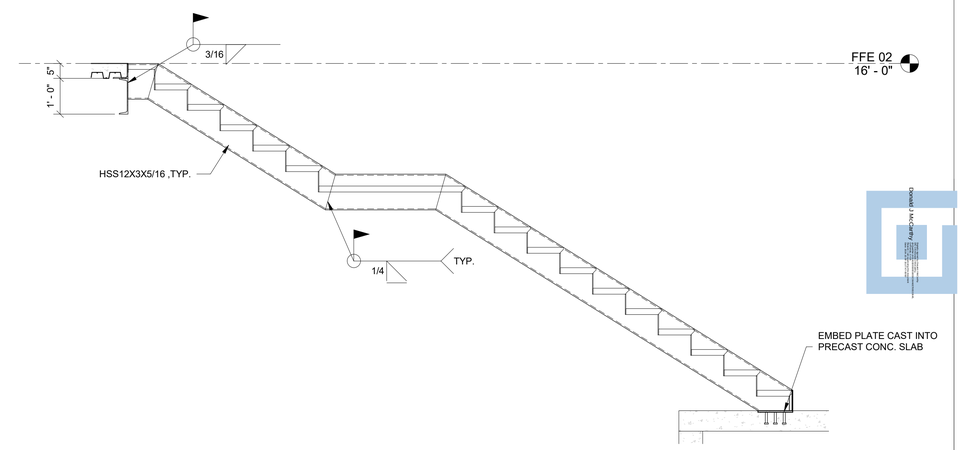
1 ENLARGED PRECAST STAIR PLAN
1/4" = 1'-0"



2 Section 1
3/4" = 1'-0"



3 Section 2
3/4" = 1'-0"



5 STAIR SECTION
1/2" = 1'-0"

4 STAIR FRAMING ENTRYWAY
1/4" = 1'-0"

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Florida Lic. No. C001942

Revision:

Date:	By:	Description:

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Destin, Florida

Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

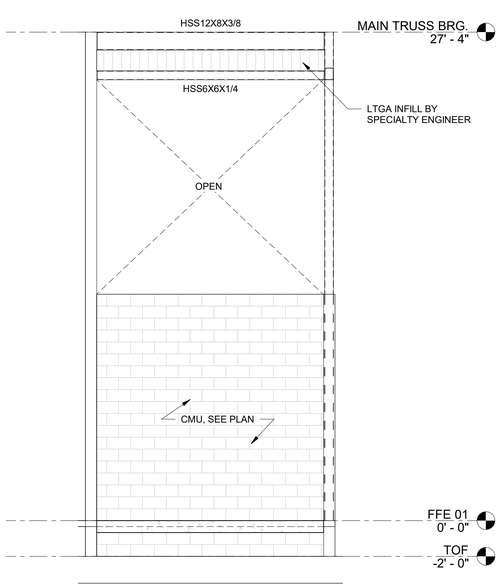
DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

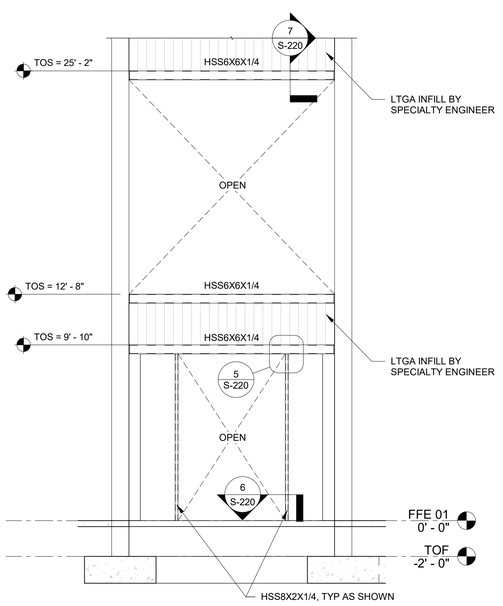
Drawing Title:
PRECAST STAIR PLAN & DETAILS

Date: 10 OCTOBER 2024

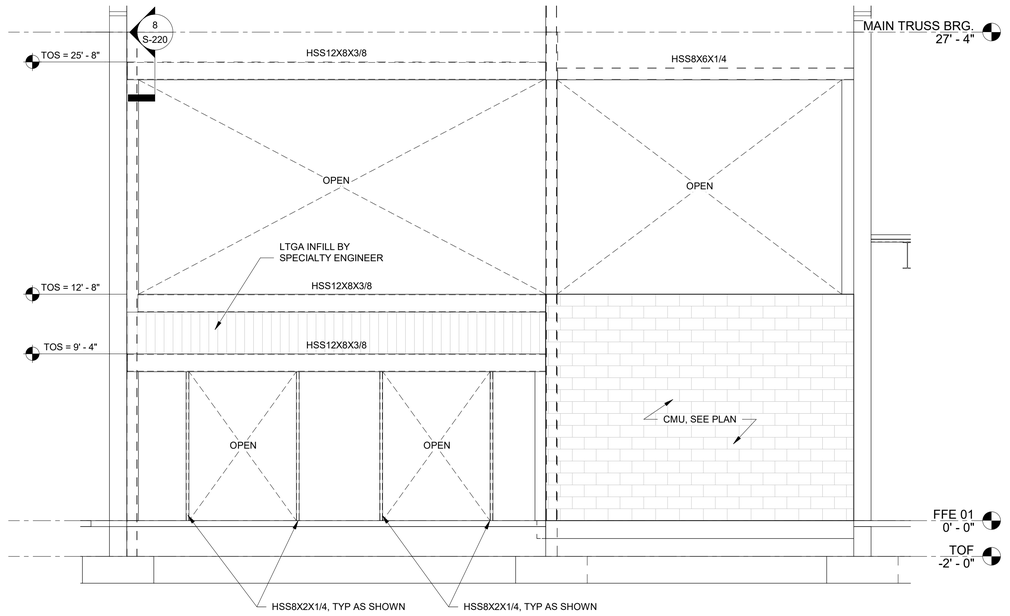
Designed By:	DJM	*Drawing No.:*
Drawn By:	WEH	S-213
Checked By:	DJM	



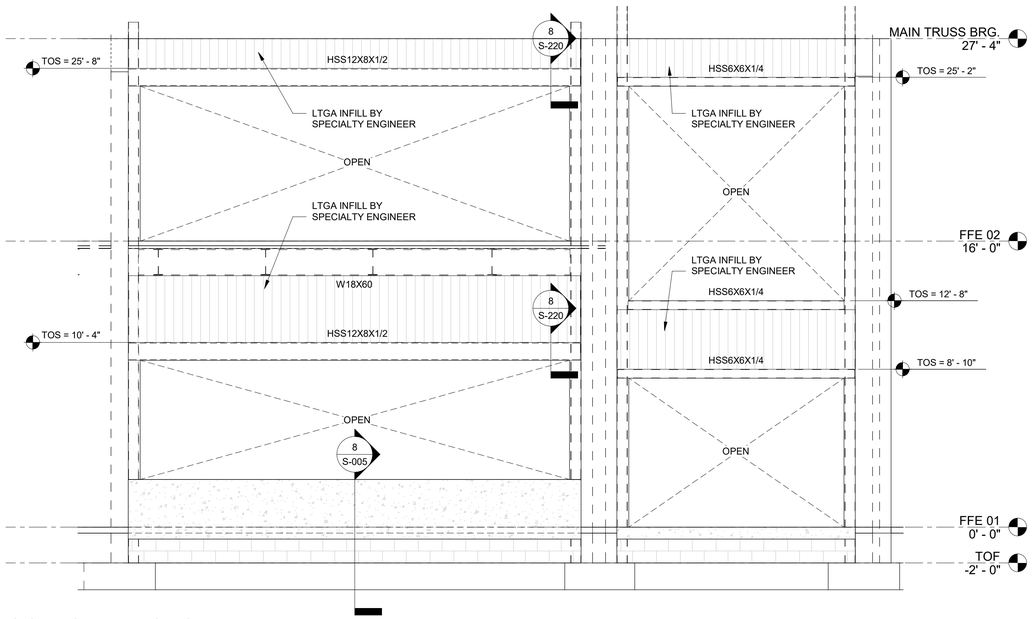
1 STOREFRONT ELEVATION NO. 1
1/4" = 1'-0"



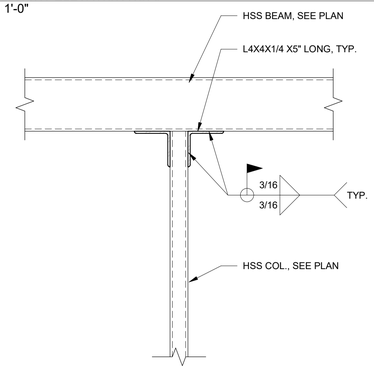
2 STOREFRONT ELEVATION NO. 2
1/4" = 1'-0"



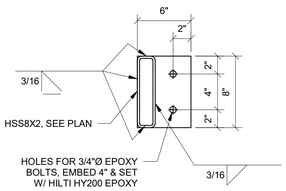
3 STOREFRONT ELEVATION NO. 3
1/4" = 1'-0"



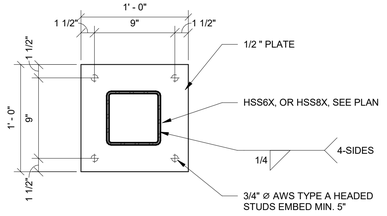
4 STOREFRONT ELEVATION NO. 4
1/4" = 1'-0"



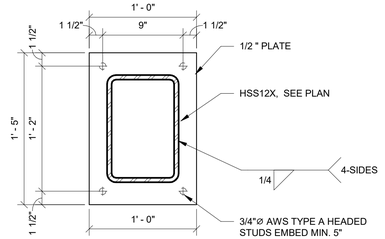
5 STOREFRONT CONNECTION DETAIL
1 1/2" = 1'-0"



6 STOREFRONT BASEPLATE DETAIL
1 1/2" = 1'-0"



7 HSS VERTICAL EMBED PLATE DETAIL
1 1/2" = 1'-0"



8 HSS VERTICAL EMBED PLATE DETAIL
1 1/2" = 1'-0"

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Heffernan Holland Morgan Architecture, P.A.
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Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DONALD J McCARTHY
LICENSE
No. 71644
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

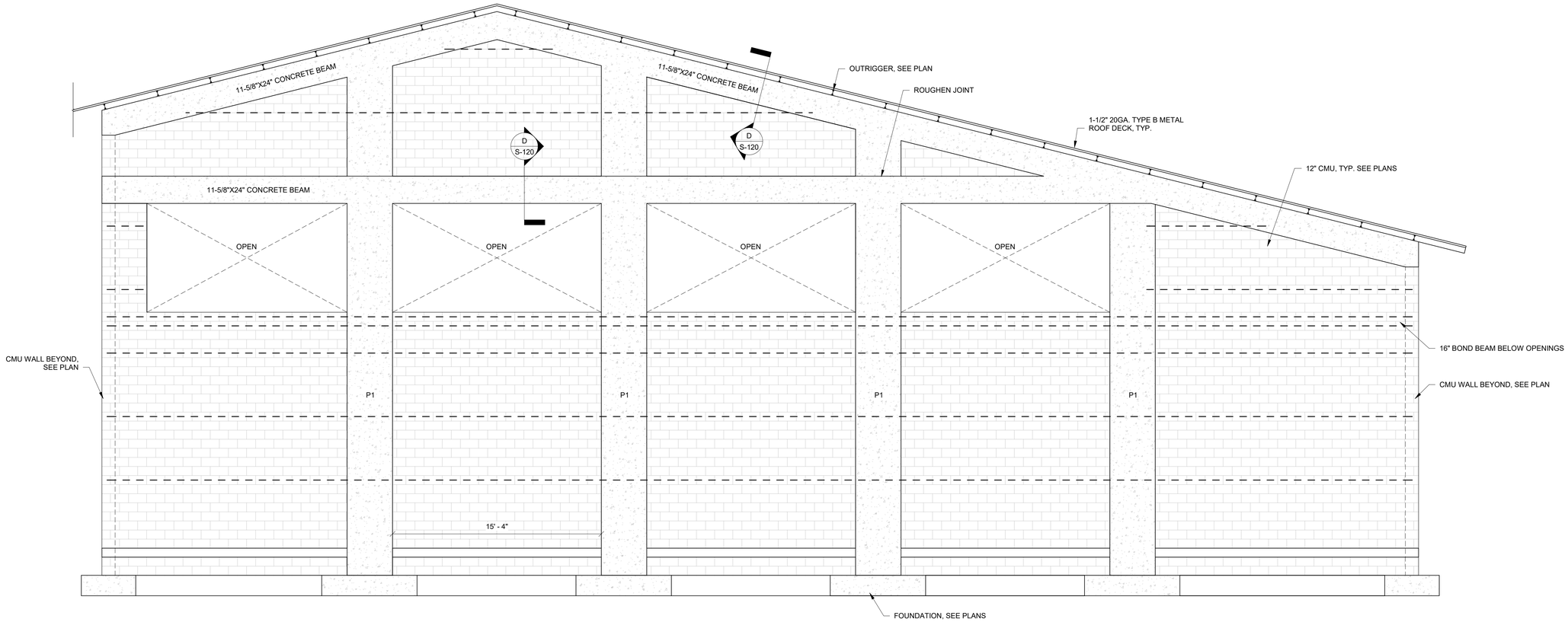
Project No.: 83X98735

Drawing Title:
STRUCTURAL ELEVATION(S)

Date: 10 OCTOBER 2024

Designed By: DJM
Drawn By: WEH
Checked By: DJM

Drawing No.:
S-220



1 MULTIPURPOSE ROOM WALL ELEVATION NO.1
1/4" = 1'-0"

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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Donald J. McCarthy

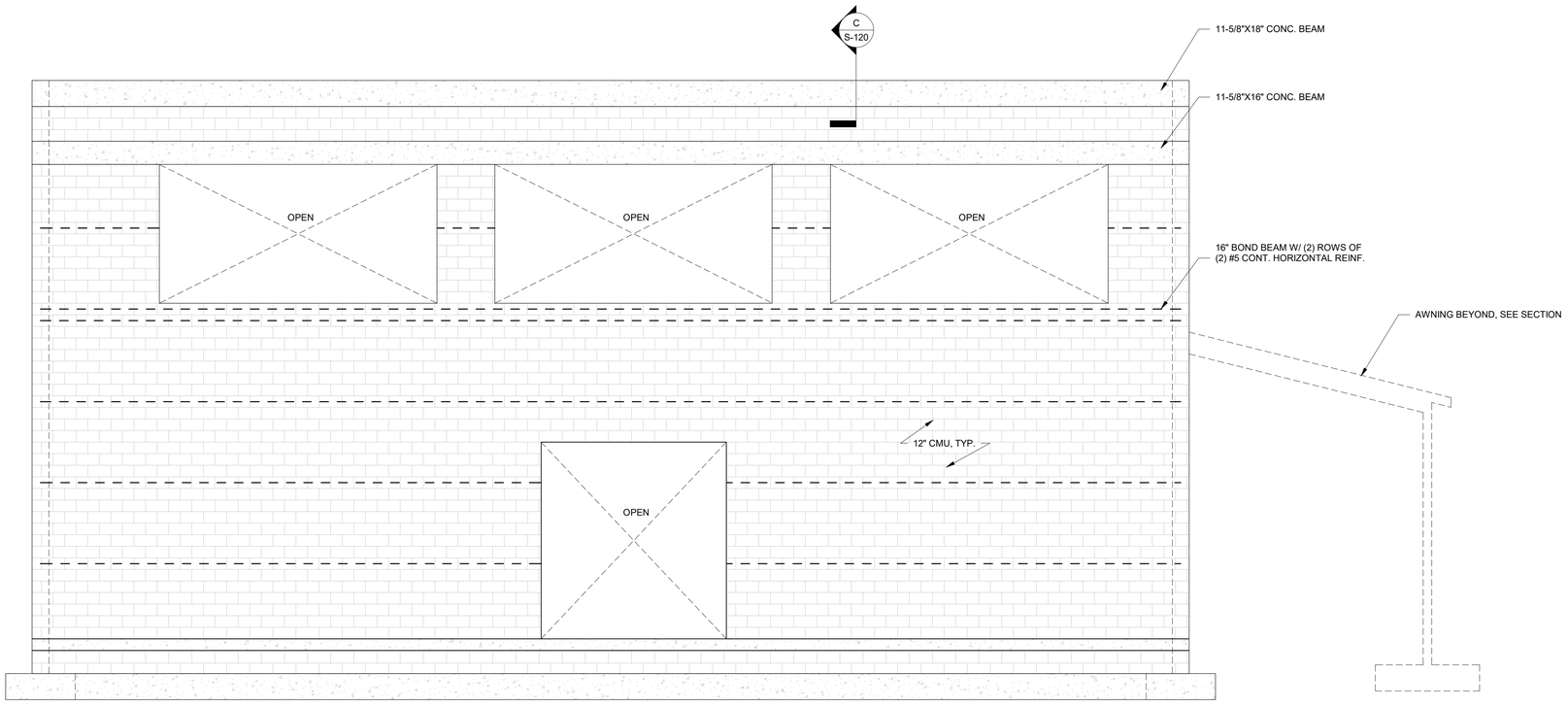
Project No.: 83X98735

Drawing Title:
STRUCTURAL ELEVATION(S)

Date: 10 OCTOBER 2024

Designed By: DJM
Drawn By: WEH
Checked By: DJM

Drawing No.: S-221



1 MULTIPURPOSE ROOM WALL ELEVATION NO. 2
1/4" = 1'-0"

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Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

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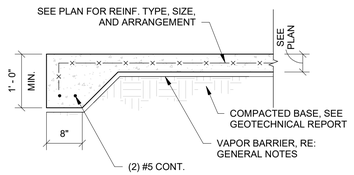
Project No.: 83X98735

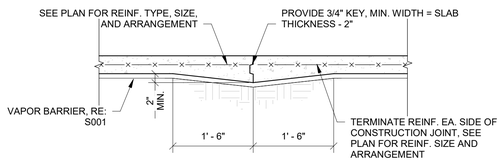
Drawing Title:
STRUCTURAL ELEVATION(S)

Date: 10 OCTOBER 2024

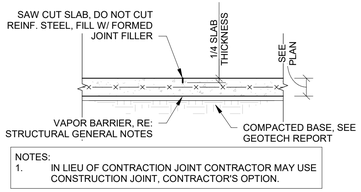
Designed By:	DJM	Drawing No.:
Drawn By:	WEH	S-222
Checked By:	DJM	



1 SLAB TURNDOWN
3/4" = 1'-0"

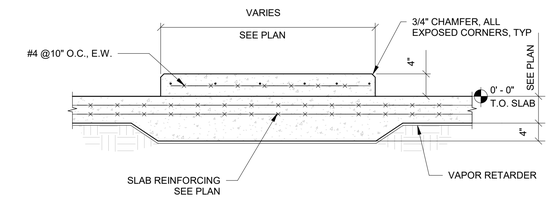


2 CONSTRUCTION JOINT
3/4" = 1'-0"

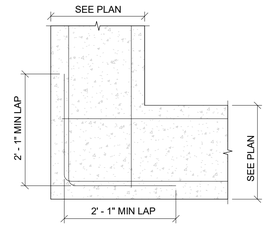


NOTES:
1. IN LIEU OF CONTRACTION JOINT CONTRACTOR MAY USE CONSTRUCTION JOINT, CONTRACTOR'S OPTION.

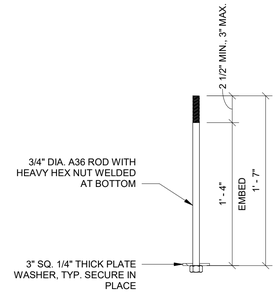
3 CONTRACTION JOINT (C.J.)
3/4" = 1'-0"



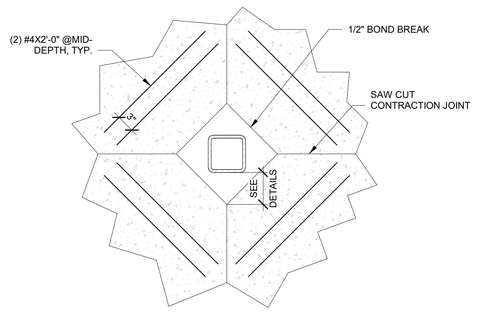
4 HOUSEKEEPING SLAB
3/4" = 1'-0"



5 FOUNDATION REINF. @ CORNER
3/4" = 1'-0"

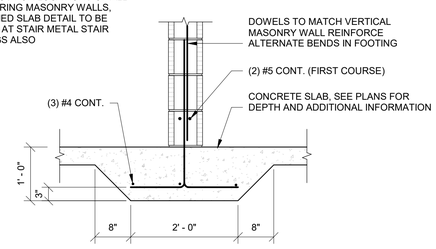


6 ANCHOR BOLT DETAIL
1 1/2" = 1'-0"

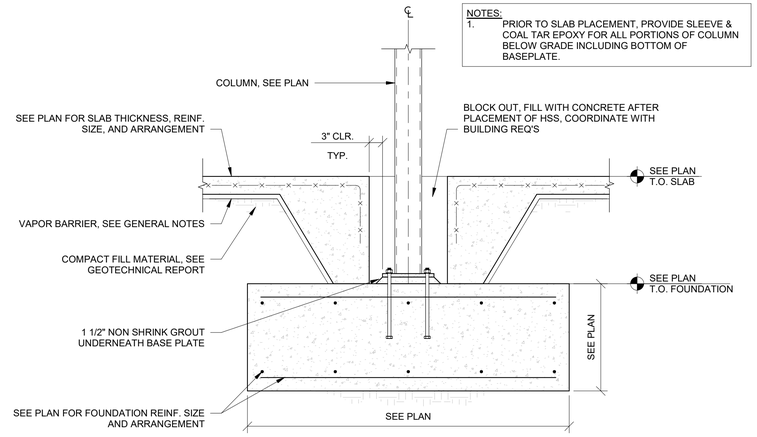


7 COLUMN PLAN VIEW DETAIL
1" = 1'-0"

NOTE: SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL NONBEARING MASONRY WALLS. THICKENED SLAB DETAIL TO BE APPLIED AT STAIR METAL STAIR LANDINGS ALSO

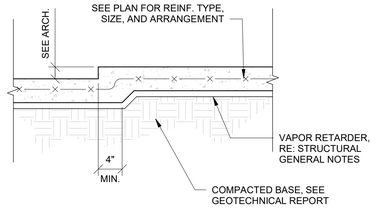


8 THICKENED SLAB DETAIL
3/4" = 1'-0"

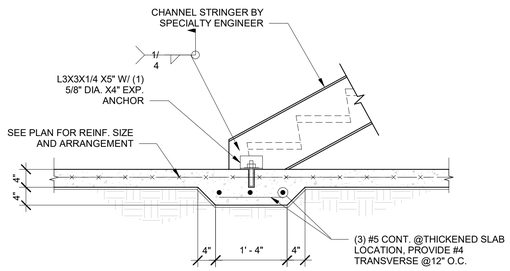


NOTES:
1. PRIOR TO SLAB PLACEMENT, PROVIDE SLEEVE & COAL TAR EPOXY FOR ALL PORTIONS OF COLUMN BELOW GRADE INCLUDING BOTTOM OF BASEPLATE.

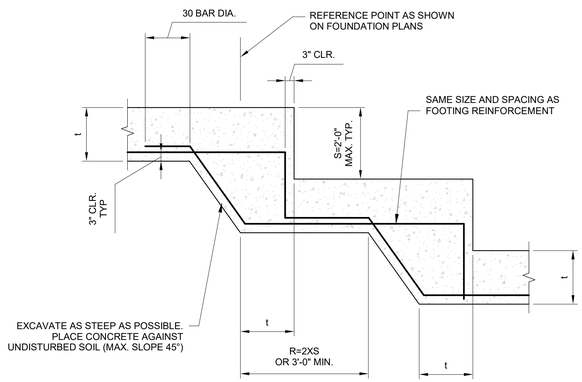
9 TYP. COLUMN FOUNDATION DETAIL
3/4" = 1'-0"



10 TYP. SLAB STEP - IF REQ'D
1" = 1'-0"



11 THICKENED SLAB @ STAIR
3/4" = 1'-0"



12 TYP. STEPPED FOOTING
1/2" = 1'-0"

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Okaloosa County Public Schools
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OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

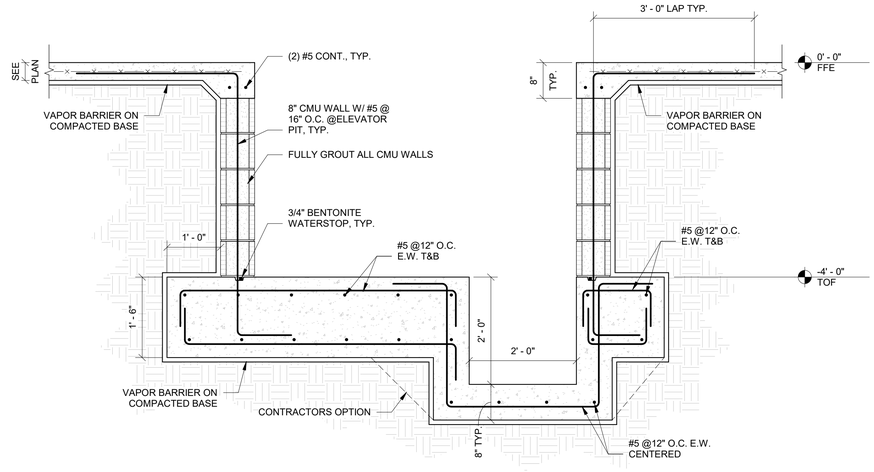
DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
CONCRETE DETAILS

Date: 10 OCTOBER 2024

Designed By:	DJM	Drawing No.:
Drawn By:	WEH	S-300
Checked By:	DJM	



1 ELEVATOR WALL FOUNDATION
3/4" = 1'-0"

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Project No.: 83X98735

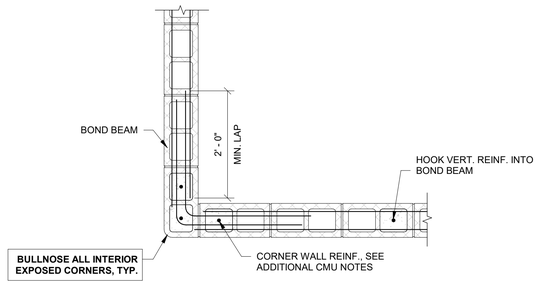
Drawing Title:
CONCRETE DETAILS

Date: 10 OCTOBER 2024

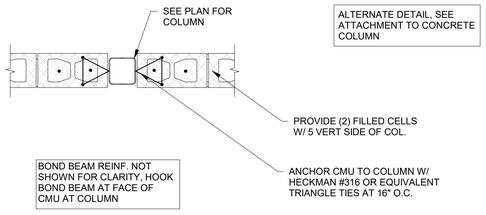
Designed By:	DJM	Drawing No.:
Drawn By:	WEH	S-301
Checked By:	DJM	

ADDITIONAL CMU NOTES

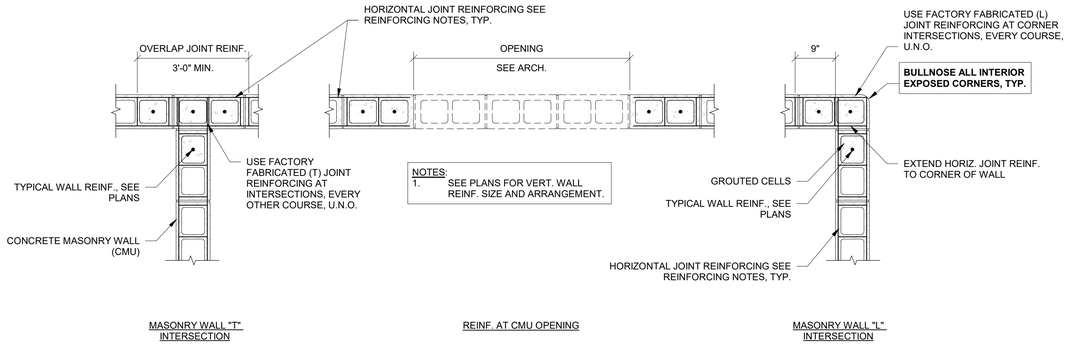
1. ALL VERTICAL REINFORCING SHALL EXTEND INTO THE UPPERMOST BOND BEAM AND WHERE TERMINATES PROVIDE A 90° HOOK WITH MINIMUM 8" LEG.
2. ADDITIONAL REINFORCEMENT IN CONJUNCTION WITH TYPICAL VERTICAL WALL REINFORCEMENT SHALL BE PROVIDED AS FOLLOWS: PROVIDE (4) FILLED CELLS OF TYPICAL WALL REINFORCEMENT AT ALL WALL INTERSECTIONS. PROVIDE (3) FILLED CELLS OF TYPICAL WALL REINFORCEMENT AT CORNERS, PROVIDE (2) FILLED CELLS OF TYPICAL WALL REINFORCEMENT EACH SIDE OF OPENING (U.N.O.), PROVIDE (1) FILLED CELL OF WALL REINFORCEMENT ON EITHER SIDE OF MASONRY CONTROL JOINTS. PROVIDE (5) FILLED CELLS OF TYPICAL WALL REINFORCEMENT AT END OF WALLS.
3. PROVIDE 8" DEEP BOND BEAMS ALL WALL AT @4'-8" O.C., VERTICALLY (MAX) W/ (2) #5 CONT., TYP.
4. PLACE CONCRETE MASONRY UNITS IN RUNNING BOND PATTERN.
5. SEE FOUNDATION PLAN FOR WALL REINFORCING SIZE AND ARRANGEMENT. HORIZONTAL JOINT REINFORCING FOR CMU WALL SHALL BE HEAVY DUTY 3/16" SIDE RODS WITH 9GA. CROSS MEMBERS. WALL REINFORCEMENT SHALL BE CONSTRUCTED IN LADDER TYPE REINFORCEMENT AND SPACED AT 16" O.C., VERTICALLY
6. PROVIDE MINIMUM 8" DEEP BOND BEAM UNDER NOTED WINDOW OPENINGS ON PLAN, BOND BEAM SHALL BE REINFORCED W/ (2) #5 AND EXTEND REINFORCING 2'-0" PAST EA. SIDE OF OPENING, TYPICAL.
7. SPLICE ALL REINFORCEMENT WITH MIN. 48 BAR DIAMETER SPLICES.



1 BOND BEAM CORNER REINF.
3/4" = 1'-0"



2 ATTAHMENT OF HSS COL. TO CMU WALL
3/4" = 1'-0"

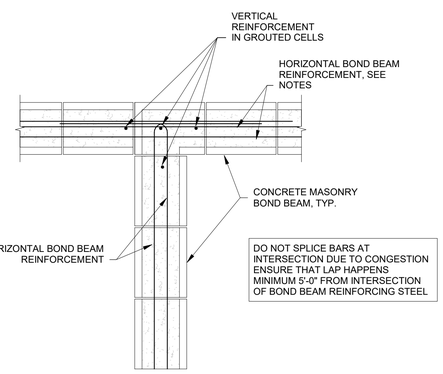


MASONRY WALL "T" INTERSECTION

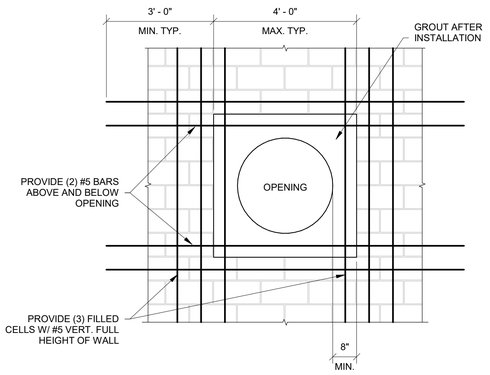
REINF. AT CMU OPENING

MASONRY WALL "L" INTERSECTION

3 CMU WALL INTERSECTION DETAILS
3/4" = 1'-0"

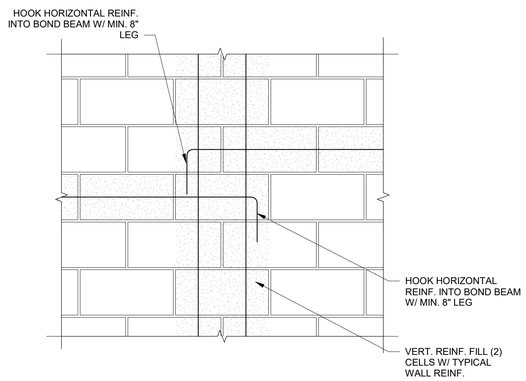


4 INTERSECTION OF STRUCTURAL BOND BEAM
3/4" = 1'-0"



5 REINFORCING OPENINGS IN MASONRY WALLS
1/2" = 1'-0"

NOTES:
1. PROVIDE CONTINUOUS 24" CONCRETE BOND BEAM TO MATCH THE ROOF SLOPE FOR THE ATTACHMENT OF PERIMETER ANGLE.



6 ELEVATION CHANGE IN BOND BEAM LOCATION
1" = 1'-0"

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DESTIN ELEMENTARY SCHOOL
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OKALOOSA COUNTY DISTRICT SCHOOLS

Seal:

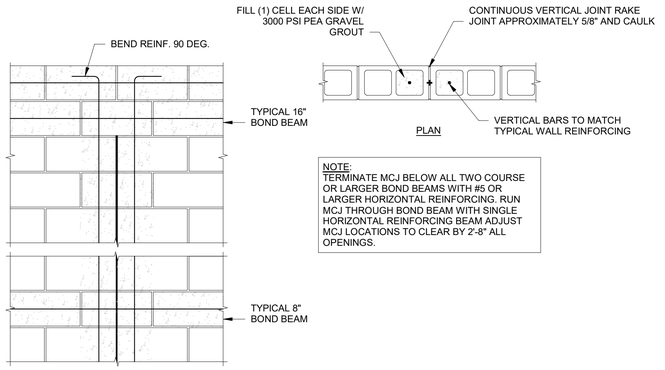
DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
MASONRY DETAILS

Date: 10 OCTOBER 2024

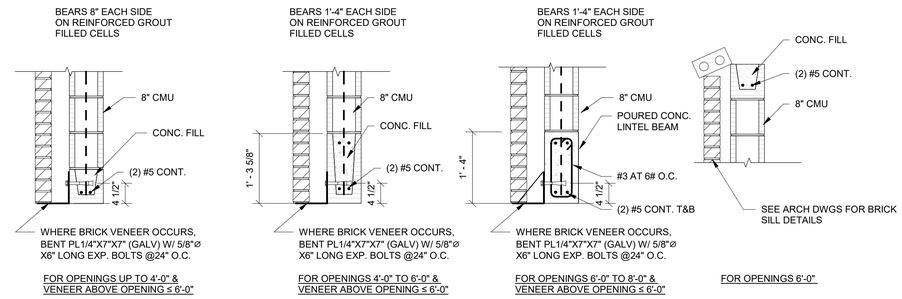
Designed By:	DJM	*Drawing No.:*
Drawn By:	WEH	S-400
Checked By:	DJM	



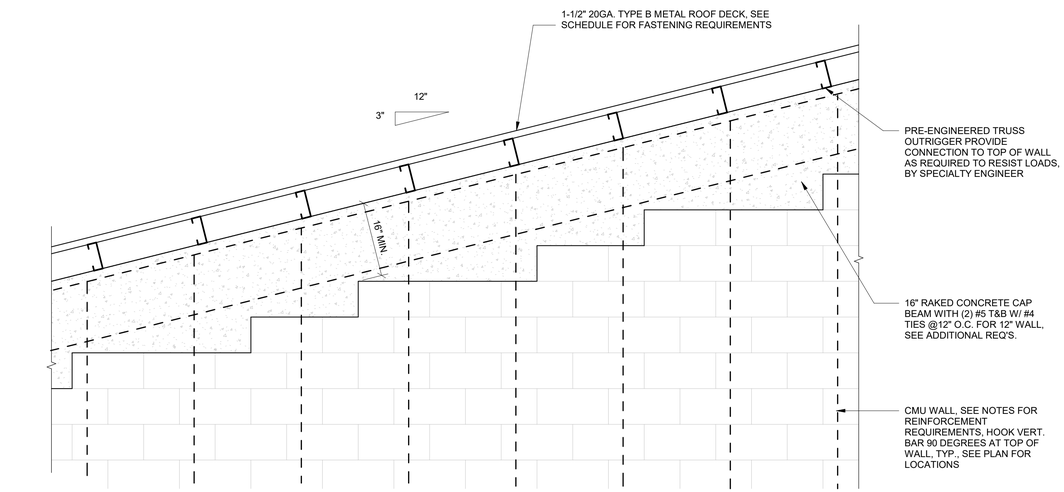
NOTE:
TERMINATE MCJ BELOW ALL TWO COURSE OR LARGER BOND BEAMS WITH #5 OR LARGER HORIZONTAL REINFORCING. RUN MCJ THROUGH BOND BEAM WITH SINGLE HORIZONTAL REINFORCING BEAM ADJUST MCJ LOCATIONS TO CLEAR BY 2'-8" ALL OPENINGS.

1 TYPICAL MCJ DETAIL
3/4" = 1'-0"

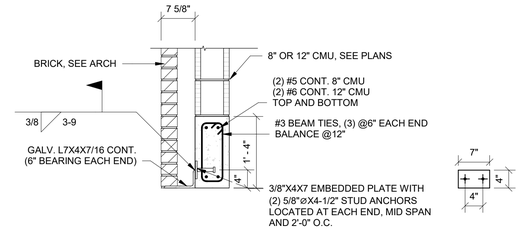
NOTES:
1. HOT DIP GALVANIZE ALL EXPOSED STRUCTURAL STEEL, INCLUDING; ANGLES, THREADED RODS, BOLTS, NUTS, WASHERS ETC.



2 TYP. MASONRY LINTEL & SILL DETAIL
3/4" = 1'-0"



3 TYPICAL CONCRETE BEAM OUTRIGGER ELEVATION
3/4" = 1'-0"



16" DEEP CONCRETE LINTEL WHERE INDICATED AND OPENING WIDTHS UP TO 10'-8" & VENEER ABOVE OPENING ≥ 6'-0"≤ 20'-0"

8" WALL CMU / CONCRETE LINTEL SCHEDULE

LEVEL/LENGTH	LINTEL SIZE (WIDTH & DEPTH)	REINFORCING SIZE & ARRANGEMENT		
		TOP	BOTTOM	SHEAR
2ND FLOOR/ L ≤ 6'-4"	8X24 CONCRETE	(2) #6	(2) #6	#4 @10" O.C.
ROOF/ L ≤ 6'-4"	8X16 CMU	(2) #5	(2) #5	---
ALL LEVELS 6'-4" ≤ L ≤ 12'-0"	8X24 CONCRETE	(2) #6	(2) #6	#4 @10" O.C.

12" WALL CMU / CONCRETE LINTEL SCHEDULE

LENGTH	LINTEL SIZE (WIDTH & DEPTH)	REINFORCING SIZE & ARRANGEMENT		
		TOP	BOTTOM	SHEAR
L≤ 10'-8"	12X24 CONCRETE	(2) #6	(3) #6	#4 @10" O.C.
10'-8"≤ L ≤ 16'-0"	12X24 CONCRETE	(3) #5	(6) #5 (2 ROWS)	#4 @10" O.C.

4 CONCRETE LINTEL UP TO L=10'-8"
3/4" = 1'-0"

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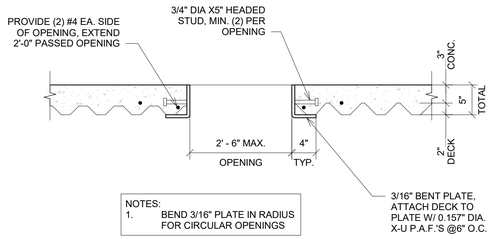
Drawing Title:
MASONRY DETAILS

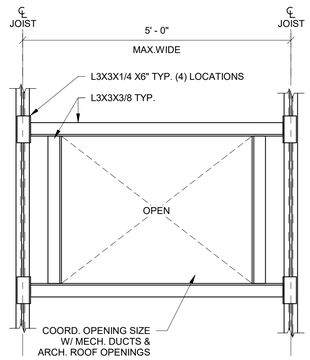
Date: 10 OCTOBER 2024

Designed By: DJM
Drawn By: WEH
Checked By: DJM

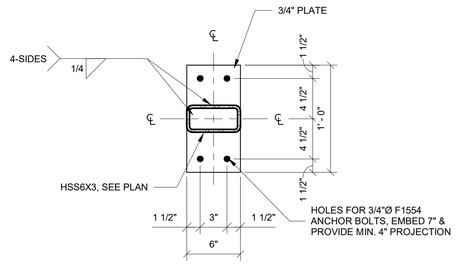
Drawing No.: S-401

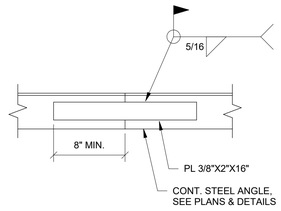


1 FLOOR SLAB OPENING
1" = 1'-0"



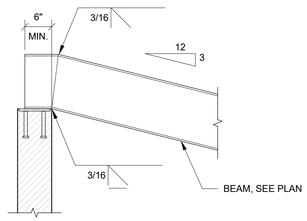
2 FLOOR/ROOF OPENING DETAIL
3/4" = 1'-0"

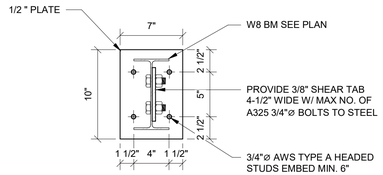




3 HSS6X3 BASE PLATE IN WALL
1 1/2" = 1'-0"

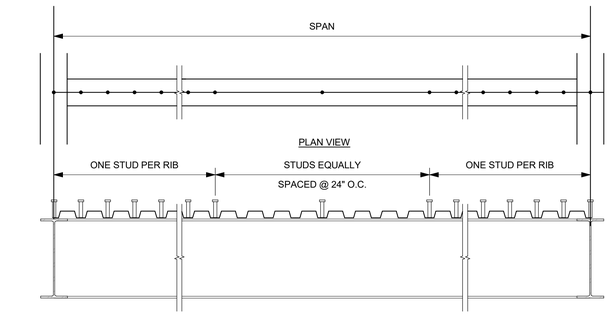
4 TYPICAL CONTINUOUS ROOF ANGLE SPLICE
1 1/2" = 1'-0"





7 TYPICAL SLOPED WBEAM BEARING DETAIL
3/4" = 1'-0"

5 W8 VERTICAL EMBED PLATE DETAIL
1 1/2" = 1'-0"



6 TYPICAL SHEAR STUD PLACING DETAILS
3/4" = 1'-0"

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Project No.: 83X98735

Drawing Title:
STRUCTURAL STEEL DETAILS

Date: 10 OCTOBER 2024

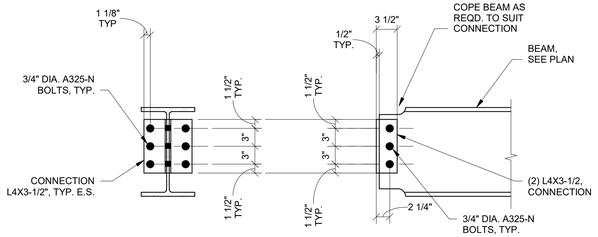
Designed By:	DJM	Drawing No.:
Drawn By:	WEH	S-500
Checked By:	DJM	

ALL BOLTED DOUBLE ANGLE CONNECTION SCHEDULE

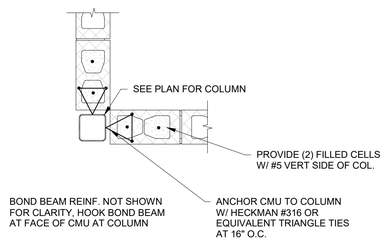
TYPICAL BEAM SIZE	DOUBLE ANGLE MINIMUM THICKNESS	# OF ROWS OF BOLTS
W8	5/16"	2
W10	5/16"	2
W12	5/16"	3
W14	5/16"	3
W16	5/16"	4
W18	5/16"	5
W21	5/16"	6

NOTES:
1. CONNECTION MAY BE FIELD BOLTED OR SHOP BOLTED TO BEAM WEB AT SUPPLIER'S OPTION.
2. ALL DOUBLE ANGLE CONNECTIONS MUST COMPLY WITH OSHA REGULATIONS

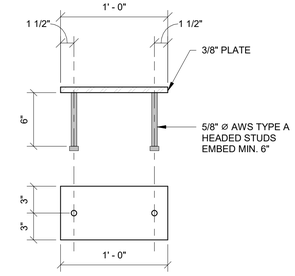
DOUBLE ANGLES CONNECTION OPPOSITE SIDE OF BEAM WEB SHALL HAVE SHORTENED ANGLE AND ONE LESS BOLT. OPPOSITE SIDE WEBS.



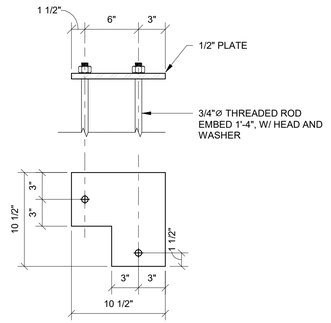
1 BEAM TO GIRDER DETAIL
1" = 1'-0"



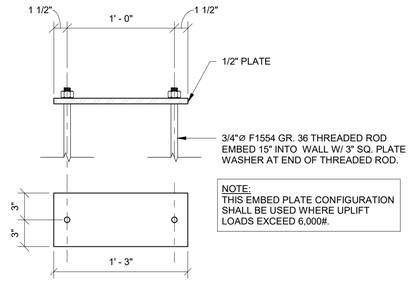
2 ATTAHMENT OF HSS COL. TO CMU WALL
3/4" = 1'-0"



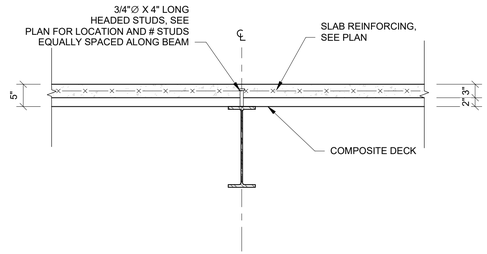
3 EMBED PLATE DETAIL
1 1/2" = 1'-0"



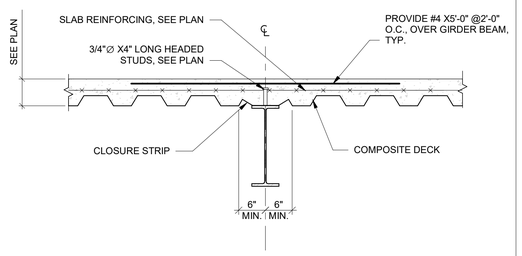
4 CORNER EMBED PLATE DETAIL
1 1/2" = 1'-0"



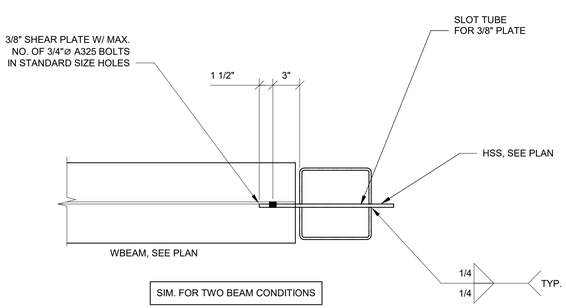
5 JOIST GIRDER EMBED PLATE DETAIL
1 1/2" = 1'-0"



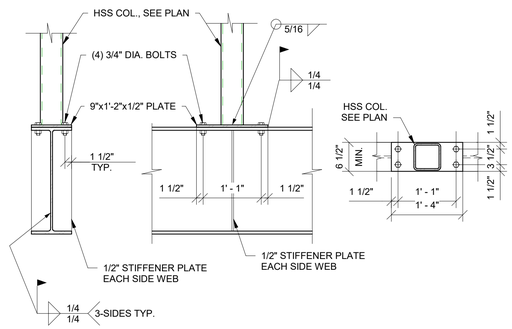
6 DECK BEAM DETAIL
3/4" = 1'-0"



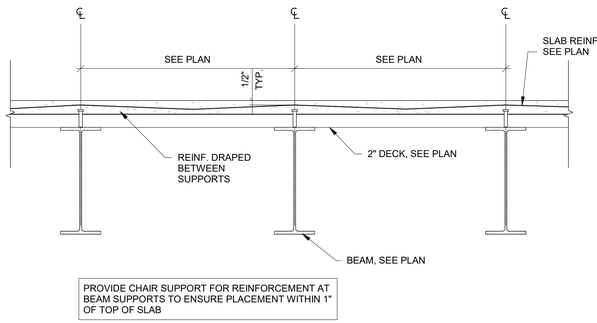
7 DECK @GIRDER BEAM DETAIL NO. 2
3/4" = 1'-0"



8 BEAM TO COLUMN DETAIL
1 1/2" = 1'-0"



9 POST-UP COLUMN
3/4" = 1'-0"



10 SLAB ARRANGEMENT DETAIL
3/4" = 1'-0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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4008 Legendary Drive Suite 600 Destin, FL 32541

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312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County Public Schools
Okaloosa County, Florida

Seal:

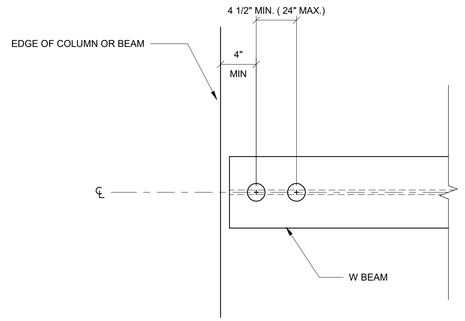
DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
STRUCTURAL STEEL DETAILS

Date: 10 OCTOBER 2024

Designed By:	DJM	Drawing No.:
Drawn By:	WEH	S-501
Checked By:	DJM	



NOTES:

1. ALL STUDS ARE 3/4" DIA X 4" LONG
2. PLACE 1 STUD MAX. PER DECK FLUTE FULL LENGTH OF BEAM., U.N.O., SEE PLAN
3. WHEN THE NUMBER OF STUDS EXCEEDS THE NUMBER OF FLUTES, LAYOUT 1 STUD EVERY OTHER FLUTE. THEN LAYOUT THE REMAINING STUDS BEGINNING AT THE BEAM ENDS. ALTERNATE ENDS UNTIL NUMBER OF STUDS REQUIRED ARE LOCATED.
4. WHERE DECK IS PARALLEL TO BEAMS, STUDS SHALL BE EQUALLY SPACED. IF ONE STUD NUMBER IS SHOWN ON PLAN. OTHERWISE, SPACE STUDS BETWEEN PERPENDICULAR BEAMS AS NOTED ON PLANS.
5. WHERE 2 STUDS ARE REQUIRED PER DECK FLUTE, SPACE STUDS AT 3" MIN. TRANSVERSE TO BEAM AXIS.

1 TYPICAL SHEAR STUD SPACING
1 1/2" = 1'-0"

SHEAR TAB CONNECTION SCHEDULE

BEAM SIZE	PLATE LENGTH "L"	PLATE THICK "T"	NUMBER OF BOLTS "N"	BOLT SIZE AND TYPE
C-W8	6"	5/16"	2	3/4" DIA A325-N
W 10	6"	5/16"	2	3/4" DIA A325-N
C-W12	9"	5/16"	3	3/4" DIA A325-N
W 14	9"	5/16'	3	3/4" DIA A325-N
W 16	12"	5/16"	4	3/4" DIA A325-N
W 18	12"	5/16"	4	3/4" DIA A325-N
W 21	15"	5/16"	5	3/4" DIA A325-N
W 24	18"	5/16'	6	3/4" DIA A325-N

WELD SCHEDULE

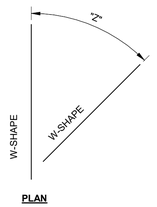
ANGLE OF FRAMING "Z"	WELD SIZE "W"
	BEAM SIZE W 8 TO W 27
90 TO 60	* 1/4" FILLET
59.9 TO 30	FULL PEN
LESS THAN 30	

* BOTH SIDES

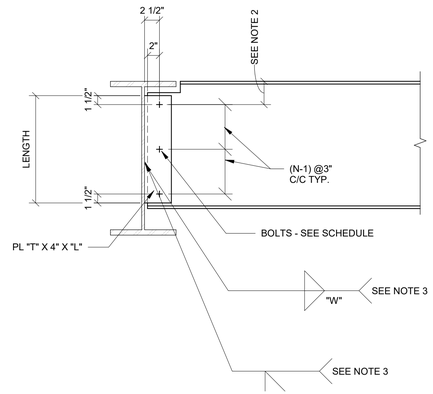
NOTES:

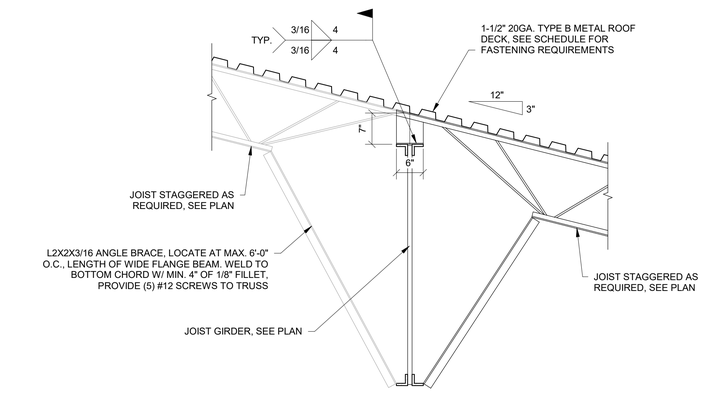
1. DETAIL APPLIES TO ALL SIMPLY SUPPORTED BEAMS UNLESS SPECIFIC DETAILS FOR AN ALTERNATE CONNECTION ARE PROVIDED.
2. 3" MIN OR "K" + 1-1/2" MIN. - "K" = DISTANCE FROM OUTER FACE OF FLANGE TO WEB TOE OF FILLET OF ROLLED SHAPE OR EQUIVALENT DISTANCE ON WELDED SECTION, IN.
3. WELD SIZE AND TYPE VARIES WITH ANGLE OF FRAMING - SEE SCHEDULE.
4. SCHEDULES ARE BASED ON ASD DESIGN METHODS.

2 TYPICAL SHEAR STUD SPACING
1" = 1'-0"



PLAN





3 JOIST BEARING ON JOIST GIRDER DETAIL
3/4" = 1'-0"

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Okaloosa County, Florida

OKALOOSA COUNTY DISTRICT SCHOOLS

Seal:

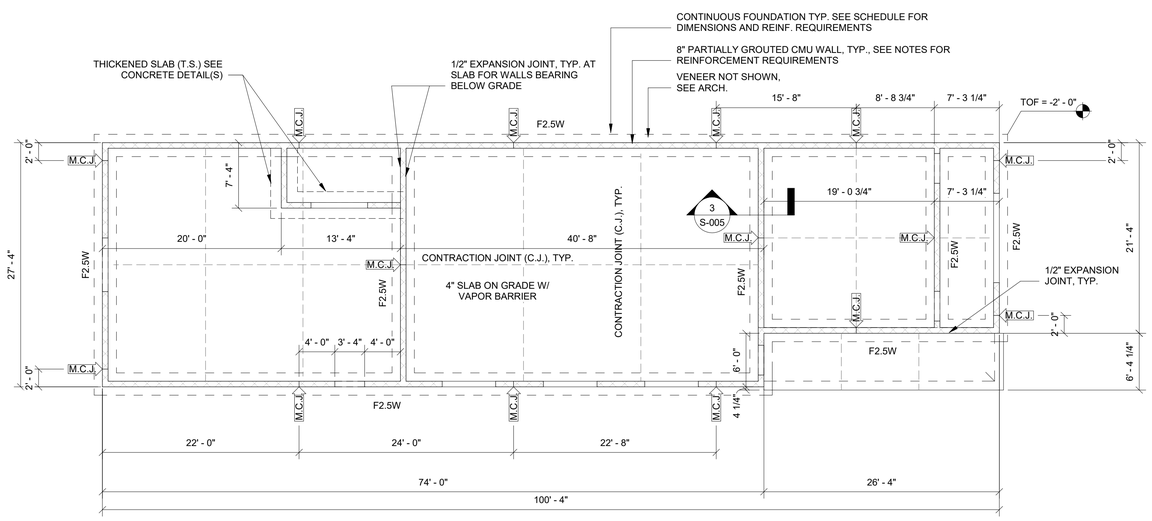
DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

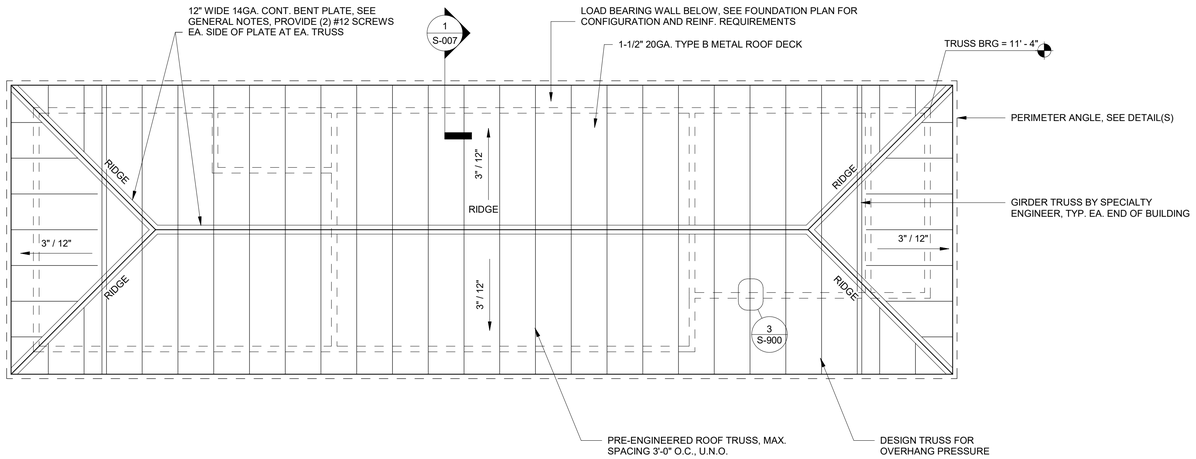
Drawing Title:
STRUCTURAL STEEL DETAILS

Date: 10 OCTOBER 2024

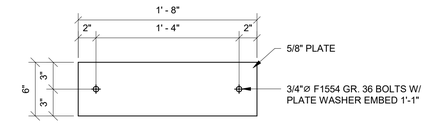
Designed By:	DJM	*Drawing No.:*
Drawn By:	WEH	S-502
Checked By:	DJM	



1 FOUNDATION PLAN TEACHER LOUNGE
1/8" = 1'-0"



2 ROOF FRAMING (LOUNGE)
1/8" = 1'-0"



3 EMBED PLATE FOR OVERHANG TRUSS @TEACHER LOUNGE
1 1/2" = 1'-0"

FOUNDATION PLAN NOTES

FINISH FLOOR ELEVATION - 0'-0", U.N.O.

1. TOP OF FOOTING (T.O.F.) ELEVATION = -(2'-0") U.N.O.
2. ALL WALL FOUNDATIONS SHALL BE F2.5W U.N.O.
3. CENTER FOUNDATIONS BENEATH WALLS AND COLUMNS U.N.O.
4. COORDINATE ALL FLOOR DRAIN (FD) LOCATIONS WITH PLUMBING DRAWINGS
5. TYPICAL FLOOR SLAB SHALL BE 4" CONCRETE SLAB REINFORCED WITH 6X6 W2.9XW2.9 W.W.F.
6. SEE ARCHITECTURAL, MEP, DRAWINGS FOR ALL SLOPE REQUIREMENTS AND WALL OPENINGS. THE FOUNDATION PLAN SHOWS ALL OPENINGS CUT +2'-0" ABOVE F.F.E. REFERENCE.
7. COORDINATE ALL DEPRESSED SLABS WITH ARCHITECTURAL DRAWINGS.
8. COORDINATE WITH ARCH. FOR ALL CMU OPENINGS.
9. FOR COLUMN SIZES AND FOOTING DIMENSIONS AND REINFORCING, SEE FOUNDATION PLAN AND FOUNDATION SCHEDULE.
10. 8" CMU WALLS SHALL BE REINFORCED W/ #5 VERT. @32" O.C. WITH ADDITIONAL AS REQUIRED BY MASONRY NOTES AT OPENINGS, CORNERS, END OF WALLS, AND MCJ.
11. MCJ - MASONRY CONTROL JOINT, SEE DETAIL(S)

FOUNDATION SCHEDULE		
DESIGNATION	SIZE	REINFORCEMENT
F2.5W	2'-6"X1'-3" THICK	(3) #6 CONT. BOTTOM #5 @10" O.C. TRANSVERSE

① - 8"X16" CMU PILASTER W/ CONCRETE BOLSTER @BEAM BRG
② - 12"X16" CMU PILASTER W/ CONCRETE BOLSTER @BEAM BRG
③ - 8"X16" CONCRETE COLUMN
④ - 12"X16" CONCRETE COLUMN

ROOF FRAMING PLAN NOTES

1. COORDINATE ALL ROOF PENETRATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. PROVIDE SUPPLEMENTAL ANGLE FRAMING AS REQUIRED FOR CURB INSTALLATION.
2. TRUSS BEARING ELEVATION = SEE PLAN
3. SPECIALTY ENGINEER TO PROVIDE UPLIFT BRACING, CONNECTIONS, BLOCKING, ETC. AS REQUIRED TO MEET ALL LOADING REQUIREMENTS SET FORTH ON THESE DOCUMENTS.

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Destin, Florida
Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
LOUNGE FOUNDATION & ROOF FRAMING PLANS

Date: 10 OCTOBER 2024

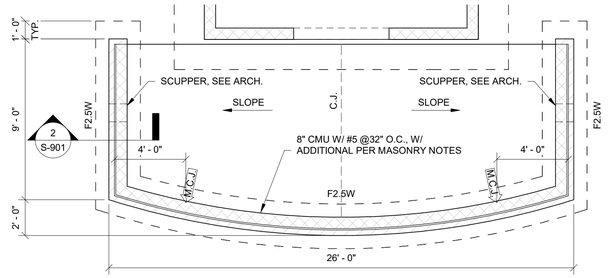
Designed By:	DJM	*Drawing No.:*
Drawn By:	WEH	S-900
Checked By:	DJM	

DONALD J McCARTHY

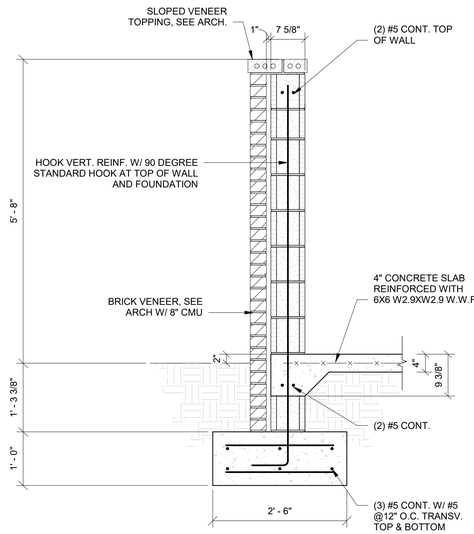
100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

PLAN NOTES

1. CONTRACTOR TO COORDINATE W/ ARCHITECTURAL FOR SCREEN WALL DIMENSIONS AND LOCATIONS. PROVIDE REINFORCEMENT AS SHOWN AT ALL SCREEN WALL LOCATIONS



1 MECH. SCREENWALL PLAN
1/4" = 1'-0"



2 MECH. SCREENWALL SECTION
3/4" = 1'-0"

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Okaloosa County Public Schools
Okaloosa County, Florida

OKALOOSA COUNTY DISTRICT SCHOOLS

Seal:

DONALD J McCARTHY LICENSE No. 71644 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

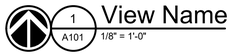
Drawing Title:
MISC. SITE DETAILS

Date: 10 OCTOBER 2024

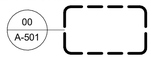
Designed By:	DJM	*Drawing No.:*
Drawn By:	WEH	S-901
Checked By:	DJM	

GRAPHIC SYMBOL LEGEND

DRAWING TITLE



DETAIL CALLOUT



DETAIL INDICATOR FOR SMALL CONDITIONS



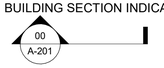
ELEVATION INDICATOR, EXTERIOR



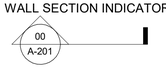
ELEVATION INDICATOR, INTERIOR, MULTIPLE VIEW



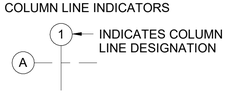
BUILDING SECTION INDICATOR



WALL SECTION INDICATOR



COLUMN LINE INDICATORS



SPACE IDENTIFICATION

ROOM NAME

888A

SHEET NOTES

1

PARTITION TYPE INDICATOR

A1

CEILING HEIGHT INDICATOR

9' - 0"

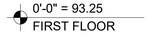
WINDOW INDICATOR

1

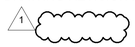
TOILET ACCESSORY TAG

A

ELEVATION INDICATOR



DRAWING REVISION INDICATOR



SCOPE INDICATORS:

EXISTING CONSTRUCTION TO REMAIN

EXISTING CONSTRUCTION TO BE REMOVED

NEW CONSTRUCTION

ABBREVIATIONS

&	AND
@	AT
L	ANGLE
A/C	AIR CONDITION
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJACENT, ADJOINING, ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
ARCH	ARCHITECT(URAL)
AUTO	AUTOMATIC
BD	BOARD
BLDG	BUILDING
BM	BEAM, BENCH MARK
BOT	BOTTOM
BRG	BEARING
BRG PL	BEARING PLATE
BUR	BUILT-UP ROOFING
C	CHANNEL
CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CF/CI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CF/GI	CONTRACTOR FURNISHED/ GOVERNMENT INSTALLED
CI	CAST IRON
CID	COMPREHENSIVE INTERIOR DESIGN PACKAGE
CIP	CAST-IN-PLACE, CAST IRON PIPE
CJ	CONSTRUCTION JOINT/CONTROL JOINT CENTER LINE, CLASS, CLOSE
CL	CEILING
CLG	CLEAR, COLOR, COOLER
CLR	CENTIMETER(S)
CM	CONCRETE MASONRY UNIT
CMU	CARPET
CPT	COLUMN
COL	CONCRETE
CONC	CONDITION
COND	CONSTRUCTION
CONSTR	CONTINUE, CONTINUOUS
CONT	CONTRACT, CONTRACTOR
CONTR	CONTRACTING OFFICER'S
COR	REPRESENTATIVE CORRIDOR
CORR	CONTRACTING OFFICER
COTR	TECHNICAL REPRESENTATIVE
CU FT	CUBIC FEET CUBIC YARD
CU YD	DRYER
D	DETAIL
DET	DRINKING FOUNTAIN
DF	DIAMETER
DIA	DIMENSION
DIM	DIVISION, DIVIDE
DIV	DOWNSPOUT
DS	DISHWASHER
DW	DRAWING
DWG	EAST
E	EACH FACE
EF	ELEVATION
EL	ELECTRIC(AL)
ELEC	ELEVATOR
ELEV	EQUAL
EQ	EQUIPMENT
EQUIP	EMERGENCY SHOWER
EMER SHR	EYE WASH STATION
EWS	ELECTRIC WATER COOLER
EWC	EXHAUST
EXH	EXISTING
EXIST	EXTERIOR
EXT	
FAX	FACSIMILE
FA	FIRE ALARM
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF EL	FINISH FLOOR ELEVATION
FIN GR	FINISH GRADE
FLR	FLOOR
FP	FIREPROOF
FT	FEET, FOOT
FTG	FOOTING
FRZ	FREEZER
GA	GAGE
GALV	GALVANIZED IRON
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GF/GI	GOVERNMENT FURNISHED/ GOVERNMENT INSTALLED
GF/CI	GOVERNMENT FURNISHED/ CONTRACTOR INSTALLED
GL	GLASS
GLZ	GLAZING
GMS	GALVANIZED METAL STUD
GDR	GUARDRAIL
GR LN	GRADE LINE
GYP BD	GYPSUM BOARD
HB	HOSE BIBB
HC	HANDICAP, HOLLOW CORE
HDBD	HARDBOARD
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HNDRL	HANDRAIL
HT	HEIGHT
HVAC	HEATING/VENTILATING/AIR COND
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
INCL	INCLUDED
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
INV EL	INVERT ELEVATION
JS	JANITOR SINK
KIT	KITCHEN
LAM	LAMINATE
LAV	LAVATORY
LH	LEFT HAND
M	METER
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MILLIMETER
MS	MOP SINK
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MW	MICROWAVE
MULL	MULLION
N	NORTH
NAT	NATURAL
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF/OI	OWNER FURNISH/ OWNER INSTALLED
OF/CI	OWNER FURNISH/ CONTRACTOR INSTALLED
OH	OVERHANG, OVERHEAD
OH DR	OVERHEAD (COILING) DOOR
OPNG	OPENING
OPP	OPPOSITE
PCF	POUNDS PER CUBIC FOOT
PCC	PRECAST CONCRETE
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PRKG	PARKING
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
R	RADIUS, RANGE, RISER
RA	RETURN AIR
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REBAR	REINFORCING STEEL BARS
REF	REFERENCE, REFRIGERATOR
REG	REGISTER
REINF	REINFORCE
RET	RETURN
REV	REVISION
RFCP	REINFORCED CONCRETE PIPE
RFG	ROOFING
RH	RIGHT HAND
RM	ROOM
ROW	RIGHT OF WAY
S	SOUTH
SC	SOLID CORE
SCHED	SCHEDULE
SD	STORM DRAIN
SECT	SECTION
SF	SQUARE FOOT(FEET)
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SPKR	SPEAKER
SQ	SQUARE
SS	SERVICE SINK
SST	STAINLESS STEEL
STA	STATION
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPEND
SYMM	SYMMETRICAL
SYS	SYSTEM
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TE	TOP ELEVATION
TEL	TELEPHONE
THK	THICKNESS
TOC	TOP OF CONCRETE
TOP	TOP OF PAVEMENT
TOS	TOP OF SLAB, TOP OF STEEL
TV	TELEVISION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
VTR	VENT THROUGH ROOF
W	WASHER, WEST, WIDE
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WH	WATER HEATER
WP	WATERPROOFING
WSCT	WAINSCOT
WWR	WELDED WIRE REINFORCEMENT

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4008 Legendary Drive Suite 600 Destin, FL 32541

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312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY · SCHOOL DISTRICT ·

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

Project No.: 83X98735

Drawing Title:

LEGEND, NOTES, AND ABBREVIATIONS

Date: 10 October 2024

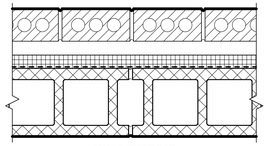
Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-001

WALL TYPES

NOTE: ALL OUTSIDE CORNERS OF FINISHED CMU WALLS SHALL HAVE BULLNOSED EDGE AT THE CORNER.

EXTERIOR WALL TYPES



WALL TYPE "A"

- MASONRY BRICK VENEER
- 2" AIR GAP
- R-10 RIGID INSULATION
- FLUID APPLIED AIR/MOISTURE BARRIER
- 8" NOMINAL MASONRY CMU.

NOTE:
1. SEE ELEVATIONS FOR HIGHT OF TRANSITION OF VENEER TYPES.
2. "LOW" ON PLAN MEANS 4' TALL WAINSCOT.

WALL TYPE "A1"

1 HR FIRE RATED (UL U419)
EXTEND PARTITION TO DECK ABOVE AND SEAL WITH FIRE CAULK.

WALL TYPE "A2"

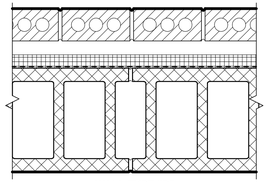
SMOKE BARRIER (UL 1784)
EXTEND PARTITION TO DECK ABOVE AND SEAL.

WALL TYPE "A3"

SMOKE PARTITION (UL 1784)
EXTEND PARTITION TO DECK ABOVE AND SEAL.

WALL TYPE "A4"

BRICK IS ON THE FINISH FACE ON THE INSIDE WITH NO AIR GAP ON THE INSIDE.



WALL TYPE "B"

- MASONRY BRICK VENEER
- 2" AIR GAP
- R-10 RIGID INSULATION
- FLUID APPLIED AIR/MOISTURE BARRIER
- 12" NOMINAL MASONRY CMU.

NOTE:
1. SEE ELEVATIONS FOR HEIGHT OF TRANSITION OF VENEER TYPES.
2. "LOW" ON PLAN MEANS 4' TALL WAINSCOT.

WALL TYPE "B1"

SMOKE PARTITION (UL 1784)
EXTEND PARTITION TO DECK ABOVE AND SEAL.

WALL TYPE "B2"

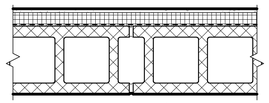
1 HR FIRE RATED (UL U419)
EXTEND PARTITION TO DECK ABOVE AND SEAL WITH FIRE CAULK.

WALL TYPE "B3"

SMOKE BARRIER (UL 1784)
EXTEND PARTITION TO DECK ABOVE AND SEAL.

WALL TYPE "B4"

BRICK IS ON THE FINISH FACE ON THE INSIDE WITH NO AIR GAP ON THE INSIDE.



WALL TYPE "C"

- SYNTHETIC STUCCO SYSTEM
- R-10 RIGID INSULATION
- FLUID APPLIED AIR/MOISTURE BARRIER
- 8" NOMINAL MASONRY CMU.

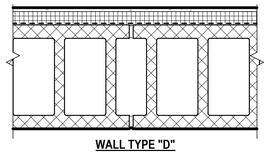
NOTE:
1. SEE ELEVATIONS FOR HIGHT OF TRANSITION OF VENEER TYPES.

WALL TYPE "C1"

SMOKE PARTITION (UL 1784)
EXTEND PARTITION TO DECK ABOVE AND SEAL.

WALL TYPE "C2"

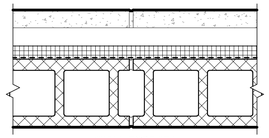
1 HR FIRE RATED (UL U419)
EXTEND PARTITION TO DECK ABOVE AND SEAL WITH FIRE CAULK.



WALL TYPE "D"

- SYNTHETIC STUCCO SYSTEM
- R-10 RIGID INSULATION
- FLUID APPLIED AIR/MOISTURE BARRIER
- 8" NOMINAL MASONRY CMU.

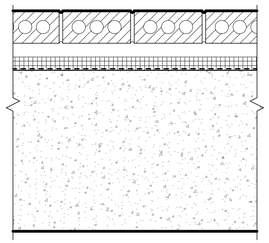
NOTE:
1. SEE ELEVATIONS FOR HIGHT OF TRANSITION OF VENEER TYPES.



WALL TYPE "E"

- 2" PRECAST CONCRETE VENEER PANELS
- 2" AIR GAP
- R-10 RIGID INSULATION
- FLUID APPLIED AIR/MOISTURE BARRIER
- 8" NOMINAL MASONRY CMU.

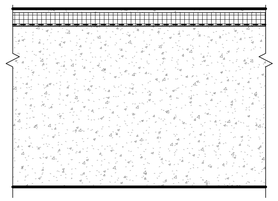
NOTE:
1. SEE ELEVATIONS FOR HIGHT OF TRANSITION OF VENEER TYPES.



WALL TYPE "F"

- MASONRY BRICK VENEER
- 2" AIR GAP
- R-10 RIGID INSULATION
- FLUID APPLIED AIR/MOISTURE BARRIER
- CONCRETE COLUMN, SEE STRUCTURAL

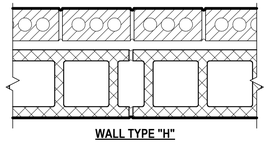
NOTE:
1. SEE ELEVATIONS FOR HEIGHT OF TRANSITION OF VENEER TYPES.



WALL TYPE "G"

- SYNTHETIC STUCCO SYSTEM
- R-10 RIGID INSULATION
- FLUID APPLIED AIR/MOISTURE BARRIER
- CONCRETE COLUMN, SEE STRUCTURAL

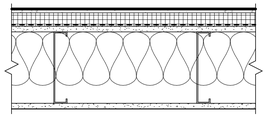
NOTE:
1.



WALL TYPE "H"

MECH YARD WALL
- MASONRY BRICK VENEER
- 1" AIR GAP
- 8" NOMINAL MASONRY CMU.

NOTE:
1. PARTION TO BE 5'-8" TALL, REFER TO DETAIL 3/A-512.

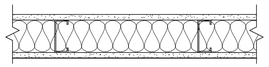


WALL TYPE "J"

- SYNTHETIC STUCCO SYSTEM
- R-10 RIGID INSULATION
- FLUID APPLIED AIR/MOISTURE BARRIER
- 5/8" TYPE "X" GYPSUM SHEATHING
- 8" GALVANIZED METAL STUDS AT 16" O.C.
- 6" THERMAL BATT INSULATION IN STUD CAVITY
- 5/8" TYPE "X" GYPSUM WALLBOARD

NOTE: INFILL EXTERIOR WALL ABOVE AND BETWEEN STOREFRONT SYSTEMS.

INTERIOR WALL TYPES



WALL TYPE "1"

- 5/8" TYPE "X" GYPSUM WALLBOARD
- 3 5/8" GALVANIZED METAL STUDS AT 16" O.C.
- FILL WITH FIBERGLASS BATT INSULATION
- 5/8" TYPE "X" GYPSUM WALLBOARD

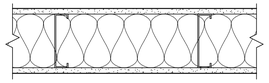
NOTE: EXTEND PARTITION TO STRUCTURE ABOVE.

WALL TYPE "1A"

SMOKE PARTITION (UL 1784)
EXTEND PARTITION TO DECK ABOVE AND SEAL.

WALL TYPE "1B"

1 HR FIRE RATED (UL U419)
EXTEND PARTITION TO DECK ABOVE AND SEAL WITH FIRE CAULK.



WALL TYPE "2"

- 5/8" TYPE "X" GYPSUM WALLBOARD
- 6" GALVANIZED METAL STUDS AT 16" O.C.
- FILL WITH FIBERGLASS BATT INSULATION
- 5/8" TYPE "X" GYPSUM WALLBOARD

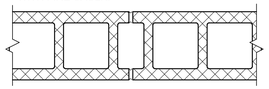
NOTE: INFILL EXISTING OPENING THAT WAS PREVIOUSLY REMOVED

WALL TYPE "2A"

SMOKE PARTITION (UL 1784)
EXTEND PARTITION TO DECK ABOVE AND SEAL.

WALL TYPE "2B"

1 HR FIRE RATED (UL U419)
EXTEND PARTITION TO DECK ABOVE AND SEAL WITH FIRE CAULK.



WALL TYPE "3"

- 8" NOMINAL MASONRY CMU.

NOTE: EXTEND PARTITION TO STRUCTURE ABOVE.

WALL TYPE "3A"

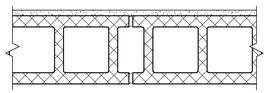
SMOKE PARTITION (UL 1784)
EXTEND PARTITION TO DECK ABOVE AND SEAL.

WALL TYPE "3B"

1 HR FIRE RATED (UL U419)
EXTEND PARTITION TO DECK ABOVE AND SEAL WITH FIRE CAULK.

WALL TYPE "3C"

BALLISTIC RATED III
INFILL CMU CAVITY WITH SAND AS REQUIRED.
EXTEND UP TO 10'-0" AFF.



WALL TYPE "4"

- 5/8" TYPE "X" GYPSUM WALLBOARD
- 8" NOMINAL MASONRY CMU.

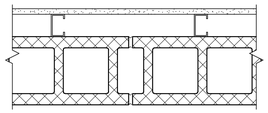
NOTE: EXTEND PARTITION TO STRUCTURE ABOVE.

WALL TYPE "4A"

SMOKE PARTITION (UL 1784)
EXTEND PARTITION TO DECK ABOVE AND SEAL.

WALL TYPE "4B"

1 HR FIRE RATED (UL U419)
EXTEND PARTITION TO DECK ABOVE AND SEAL WITH FIRE CAULK.



WALL TYPE "5"

- 5/8" TYPE "X" GYPSUM WALLBOARD
- 2 1/2" GALVANIZED METAL STUDS AT 16" O.C.
- 8" NOMINAL MASONRY CMU.

NOTE: EXTEND PARTITION TO STRUCTURE ABOVE.

WALL TYPE "5A"

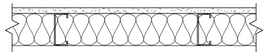
SMOKE BARRIER (UL 1784)
EXTEND PARTITION TO DECK ABOVE AND SEAL.

WALL TYPE "5B"

1 HR FIRE RATED (UL U419)
EXTEND PARTITION TO DECK ABOVE AND SEAL WITH FIRE CAULK.

WALL TYPE "5C"

SMOKE PARTITION (UL 1784)
EXTEND PARTITION TO DECK ABOVE AND SEAL.



WALL TYPE "6"

- 5/8" TYPE "X" GYPSUM WALLBOARD
- 3 5/8" GALVANIZED METAL STUDS AT 16" O.C.
- FILL WITH FIBERGLASS BATT INSULATION

NOTE: EXTEND PARTITION TO STRUCTURE ABOVE.

WALL TYPE "6A"

USING 6" GALVANIZED METAL STUDS AT 16" O.C. INSTEAD OF THE 3 5/8".

WALL TYPE "7"

- MASONRY BRICK VENEER
- 4" AIR GAP
- 8" NOMINAL MASONRY CMU.

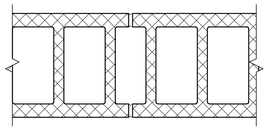
NOTE:
1. "LOW" ON PLAN MEANS 4' TALL WAINSCOT.

WALL TYPE "7A"

SMOKE BARRIER (UL 1784)
EXTEND PARTITION TO DECK ABOVE AND SEAL.

WALL TYPE "7B"

1 HR FIRE RATED (UL U419)
EXTEND PARTITION TO DECK ABOVE AND SEAL WITH FIRE CAULK.



WALL TYPE "8"

- 12" NOMINAL MASONRY CMU.

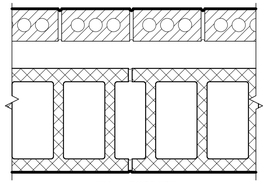
NOTE: EXTEND PARTITION TO STRUCTURE ABOVE.

WALL TYPE "8A"

SMOKE PARTITION (UL 1784)
EXTEND PARTITION TO DECK ABOVE AND SEAL.

WALL TYPE "8B"

1 HR FIRE RATED (UL U419)
EXTEND PARTITION TO DECK ABOVE AND SEAL WITH FIRE CAULK.



WALL TYPE "9"

- MASONRY BRICK VENEER
- 4" AIR GAP
- 12" NOMINAL MASONRY CMU.

NOTE:
1. "LOW" ON PLAN MEANS 4' TALL WAINSCOT.

WALL TYPE "9A"

SMOKE PARTITION (UL 1784)
EXTEND PARTITION TO DECK ABOVE AND SEAL.

WALL TYPE "9B"

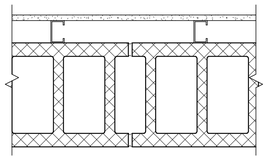
1 HR FIRE RATED (UL U419)
EXTEND PARTITION TO DECK ABOVE AND SEAL WITH FIRE CAULK.

WALL TYPE "9C"

SMOKE BARRIER (UL 1784)
EXTEND PARTITION TO DECK ABOVE AND SEAL.

WALL TYPE "9D"

BRICK WRAPS AROUND ON THE END AND IS ON THE FINISH FACE ON THE INSIDE WITH NO AIR GAP ON THE INSIDE.



WALL TYPE "10"

- 5/8" TYPE "X" GYPSUM WALLBOARD
- 2 1/2" GALVANIZED METAL STUDS AT 16" O.C.
- 12" NOMINAL MASONRY CMU.

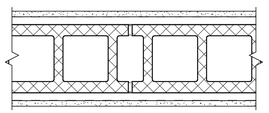
NOTE: EXTEND PARTITION TO STRUCTURE ABOVE.

WALL TYPE "10A"

SMOKE BARRIER (UL 1784)
EXTEND PARTITION TO DECK ABOVE AND SEAL.

WALL TYPE "10B"

1 HR FIRE RATED (UL U419)
EXTEND PARTITION TO DECK ABOVE AND SEAL WITH FIRE CAULK.



WALL TYPE "11"

- 5/8" TYPE "X" GYPSUM WALLBOARD
- 7/8" HAT CHANNEL FURRING
- 8" NOMINAL MASONRY CMU.
- 7/8" HAT CHANNEL FURRING
- 5/8" TYPE "X" GYPSUM WALLBOARD

NOTE: EXTEND TO ANGLE OF STAIR GUARDRAIL.

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312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HOLMAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

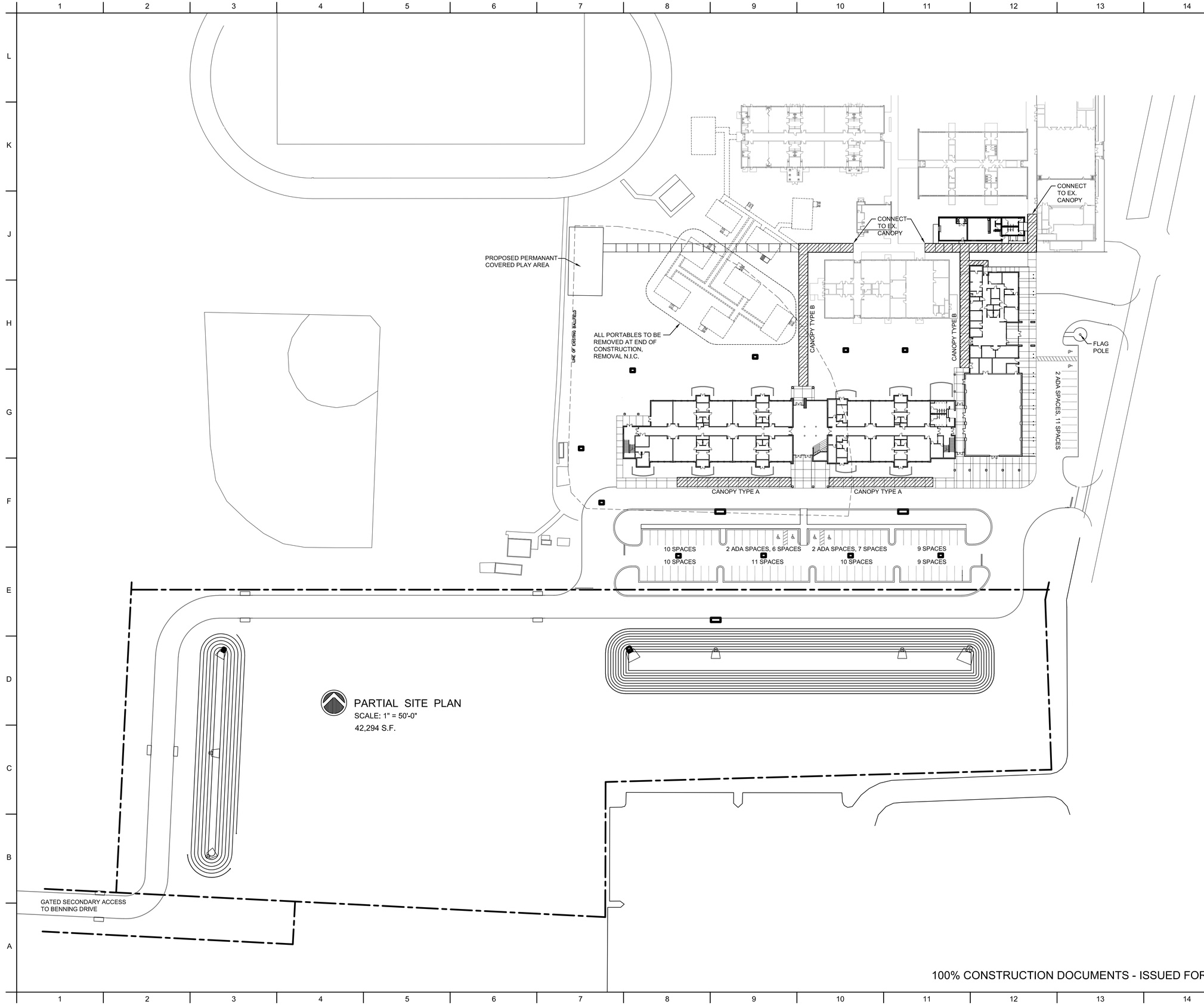
Project No.: 83X98735

Drawing Title:
WALL TYPES

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-002



PARTIAL SITE PLAN
SCALE: 1" = 50'-0"
42,294 S.F.

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Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

Seal:

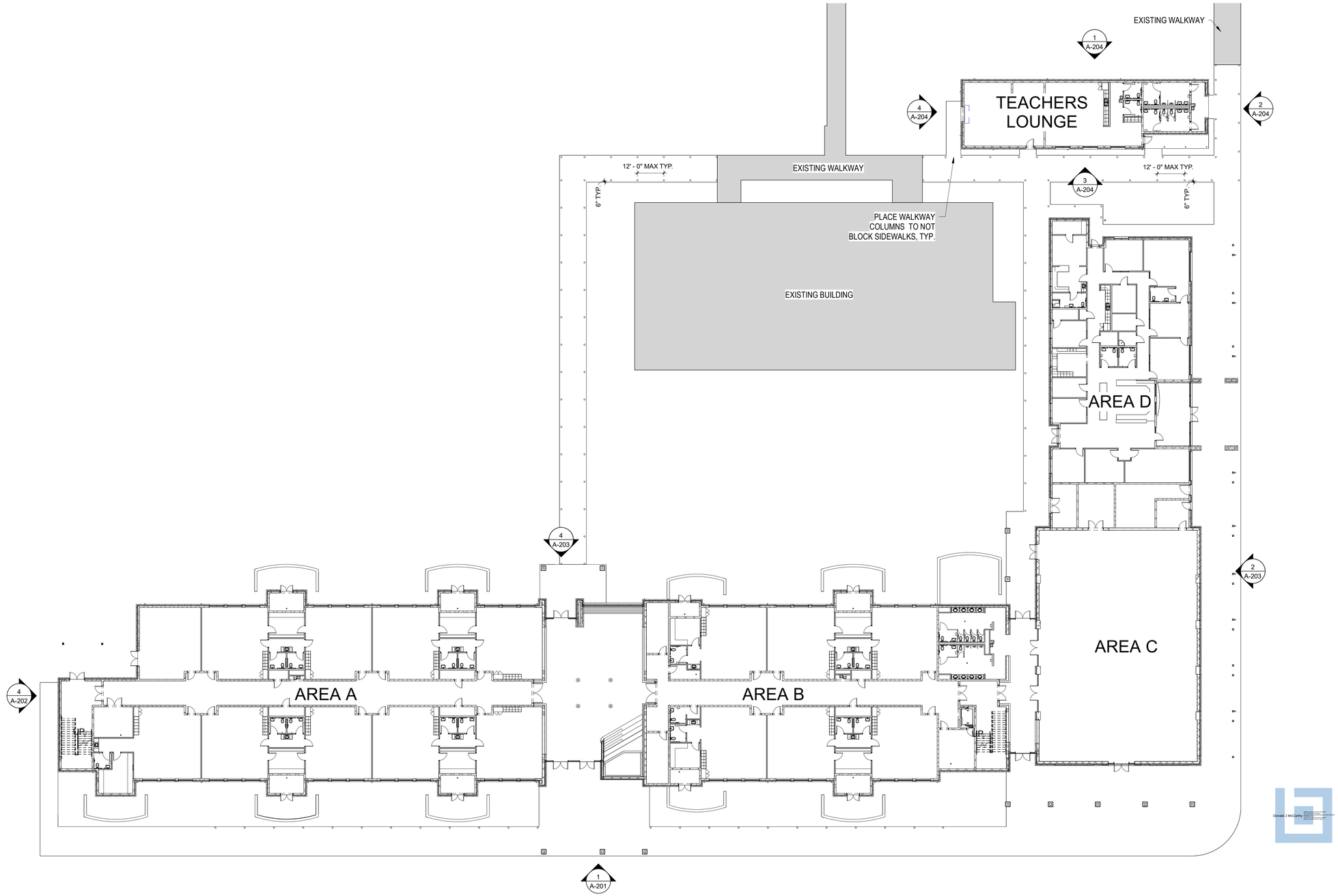
Project No.: 83X98735

Drawing Title:
PARTIAL SITE PLAN

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-100



1 A-101 OVERALL FIRST FLOOR PLAN
1" = 20'-0"

0" 10' - 0" 20' - 0" 40' - 0"
SCALE:1'-0" = 20'-0"

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
STATE OF FLORIDA
DONALD ALLEN MCCARTHY
10/10/2024
NO. 9262
REGISTERED ARCHITECT

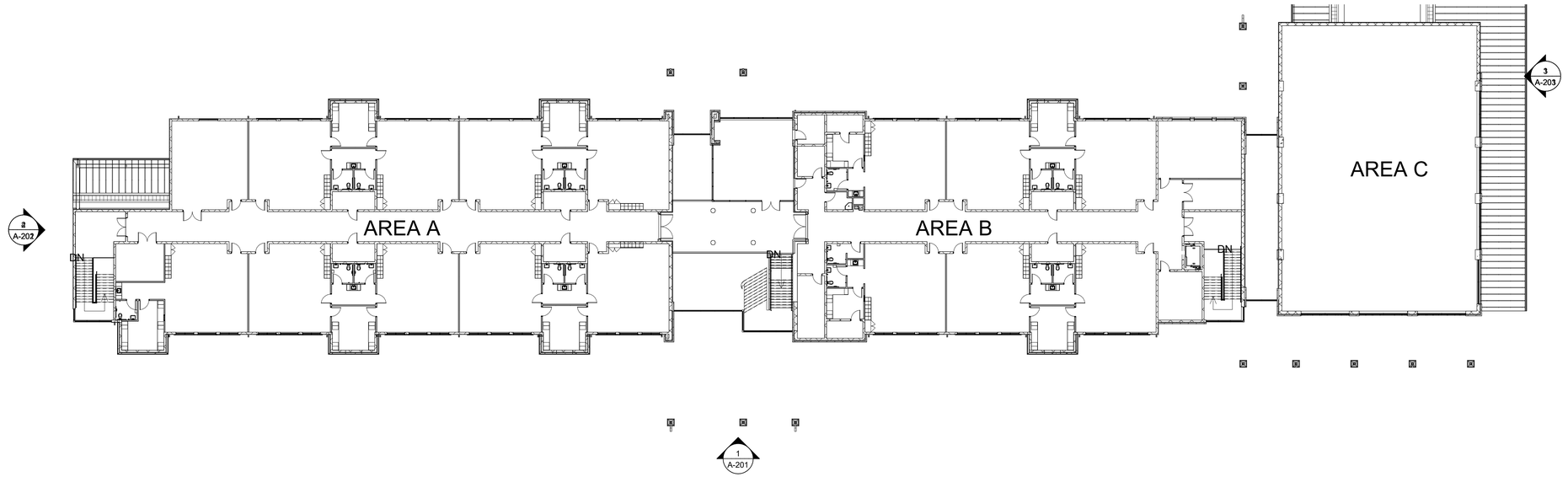
Project No.: 83X98735

Drawing Title:
OVERALL FIRST FLOOR PLAN

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-101



1 A-102 OVERALL SECOND FLOOR PLAN
1" = 20'-0"

0" 10' - 0" 20' - 0" 40' - 0"
SCALE:1'-0" = 20'-0"

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Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

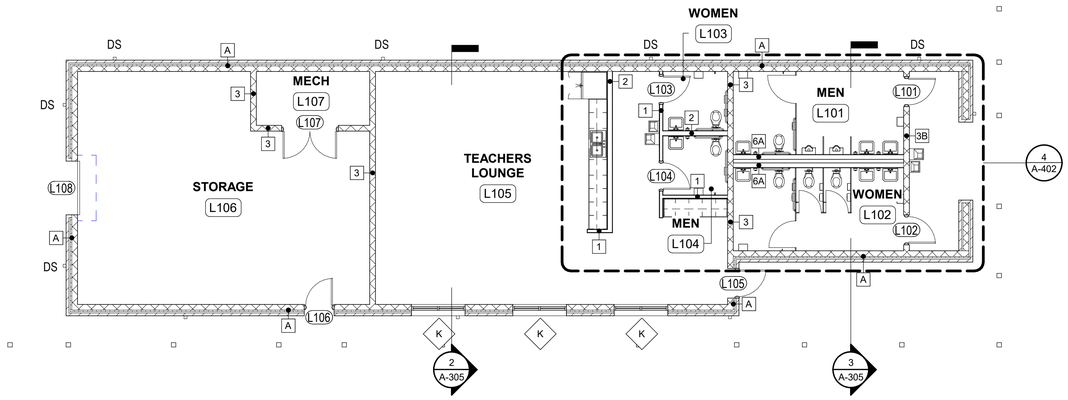
Project No.: 83X98735

Drawing Title:
OVERALL SECOND FLOOR PLAN

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

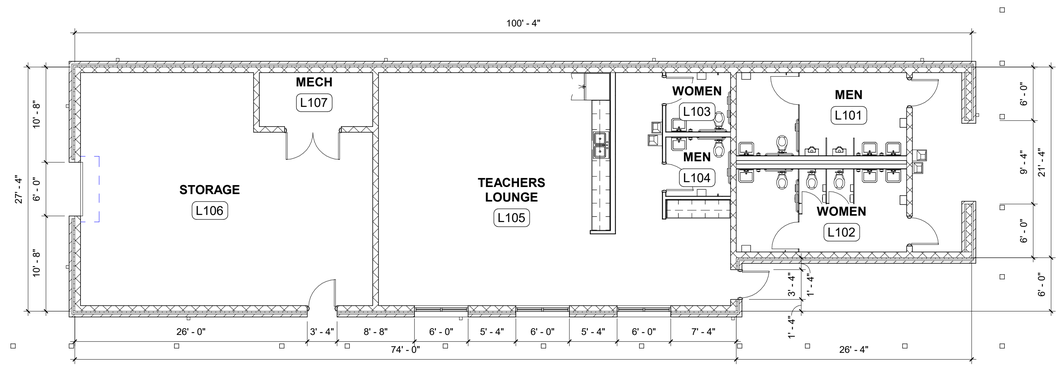
Drawing No.:
A-102



1 A-103 TEACHER LOUNGE - RESTROOM FLOOR PLAN

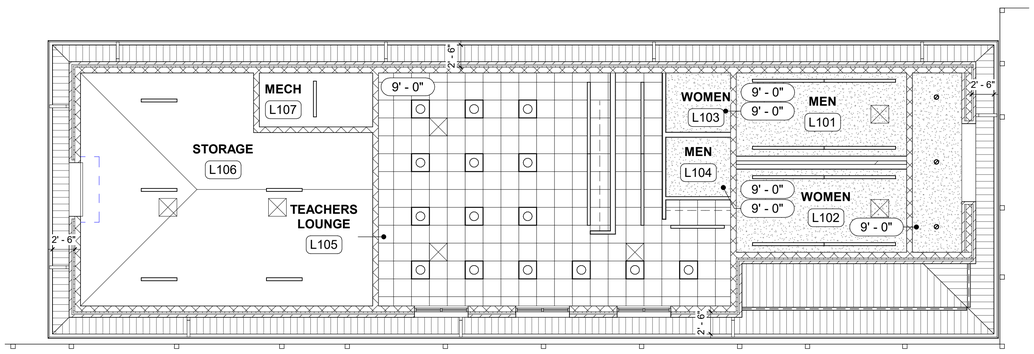
1/8" = 1'-0"

NOTE: ALL OUTSIDE CORNERS OF FINISHED CMU WALLS SHALL HAVE BULLNOSED EDGE AT THE CORNER.



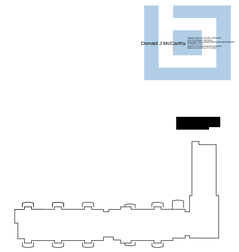
2 A-103 TEACHER LOUNGE - RESTROOM DIMENSION PLAN

1/8" = 1'-0"



3 A-103 FIRST FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"



0" 4' - 0" 8' - 0" 16' - 0"

SCALE:1/8" = 1'-0"

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Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY · SCHOOL DISTRICT ·

Seal:

STATE OF FLORIDA · ROBERT ALLEN HOLLAND · 10/10/2024 · NO. 9262 · REGISTERED ARCHITECT

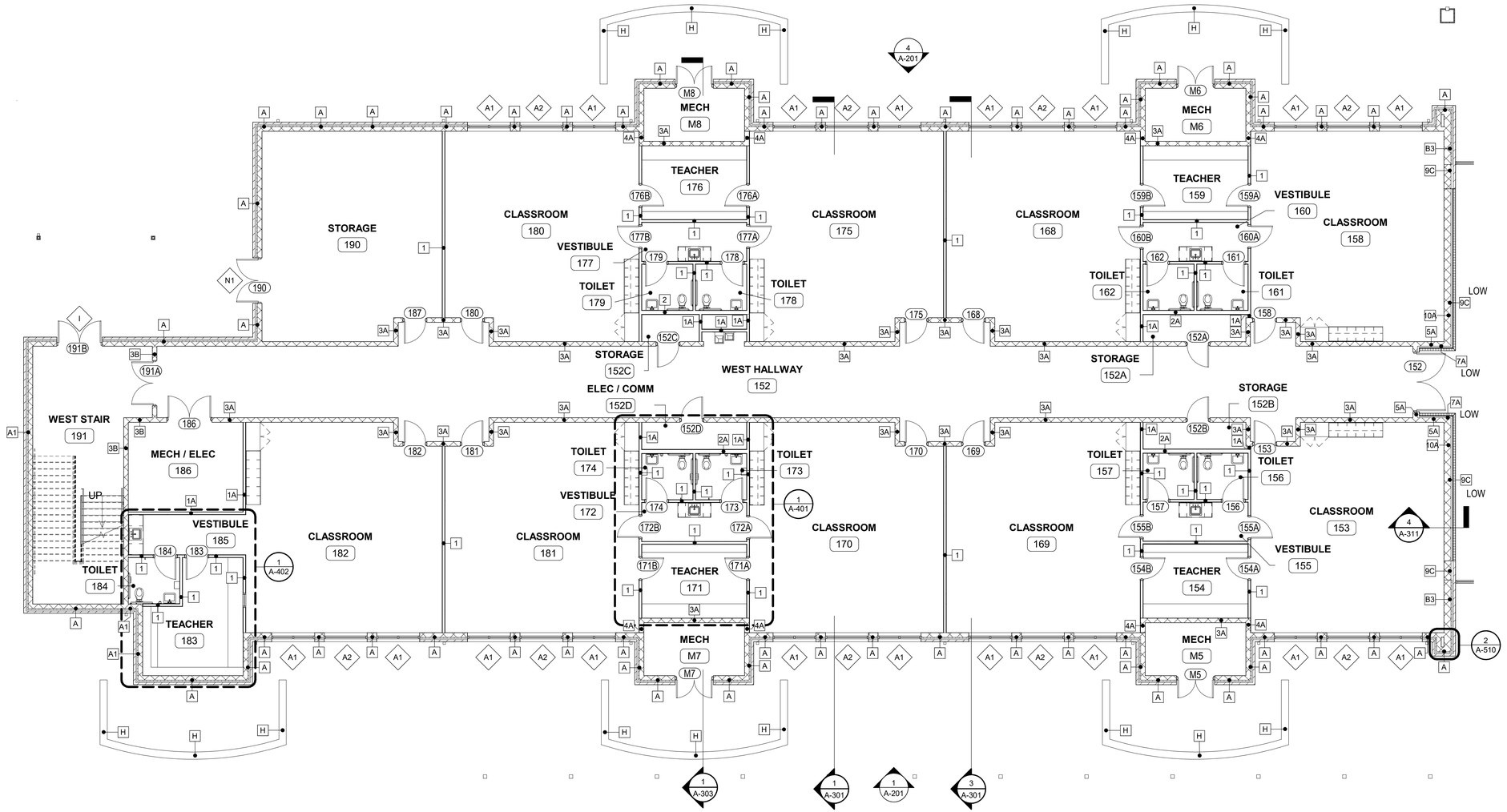
Project No.: 83X98735

Drawing Title:
TEACHER LOUNGE - RESTROOM FLOOR PLAN

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-103



1 A-104 PARTIAL FIRST FLOOR PLAN - AREA A

1/8" = 1'-0"

NOTE: ALL OUTSIDE CORNERS OF FINISHED CMU WALLS SHALL HAVE BULLNOSED EDGE AT THE CORNER.

0" 4' - 0" 8' - 0" 16' - 0"

SCALE:1/8" = 1'-0"

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Revision:

Date:	By:	Description:

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Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA · ROBERT ALLEN WILLIAMS · 10/10/2024 · NO. 9262 · REGISTERED ARCHITECT

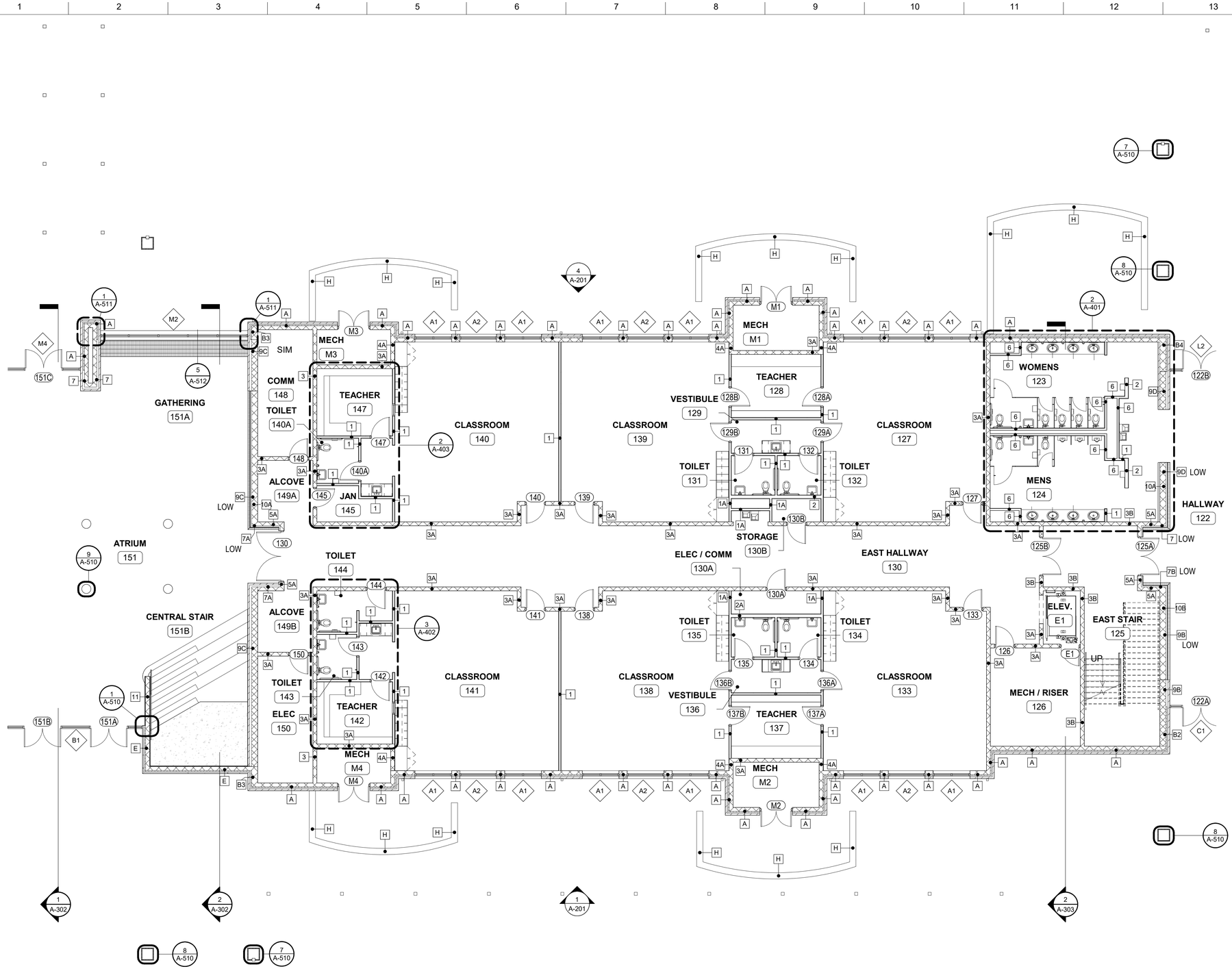
Project No.: 83X98735

Drawing Title:
PARTIAL FIRST FLOOR PLAN - AREA A

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

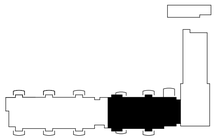
Drawing No.: A-104



PARTIAL FIRST FLOOR PLAN - AREA B

1 / A-105 — 1/8" = 1'-0"

NOTE: ALL OUTSIDE CORNERS OF FINISHED CMU WALLS SHALL HAVE BULLNOSED EDGE AT THE CORNER.



0" 4' - 0" 8' - 0" 16' - 0"

SCALE:1/8" = 1'-0"

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Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA — ROBERT ALLEN HEFFERNAN — 10/10/2024 — NO. 9262 — REGISTERED ARCHITECT

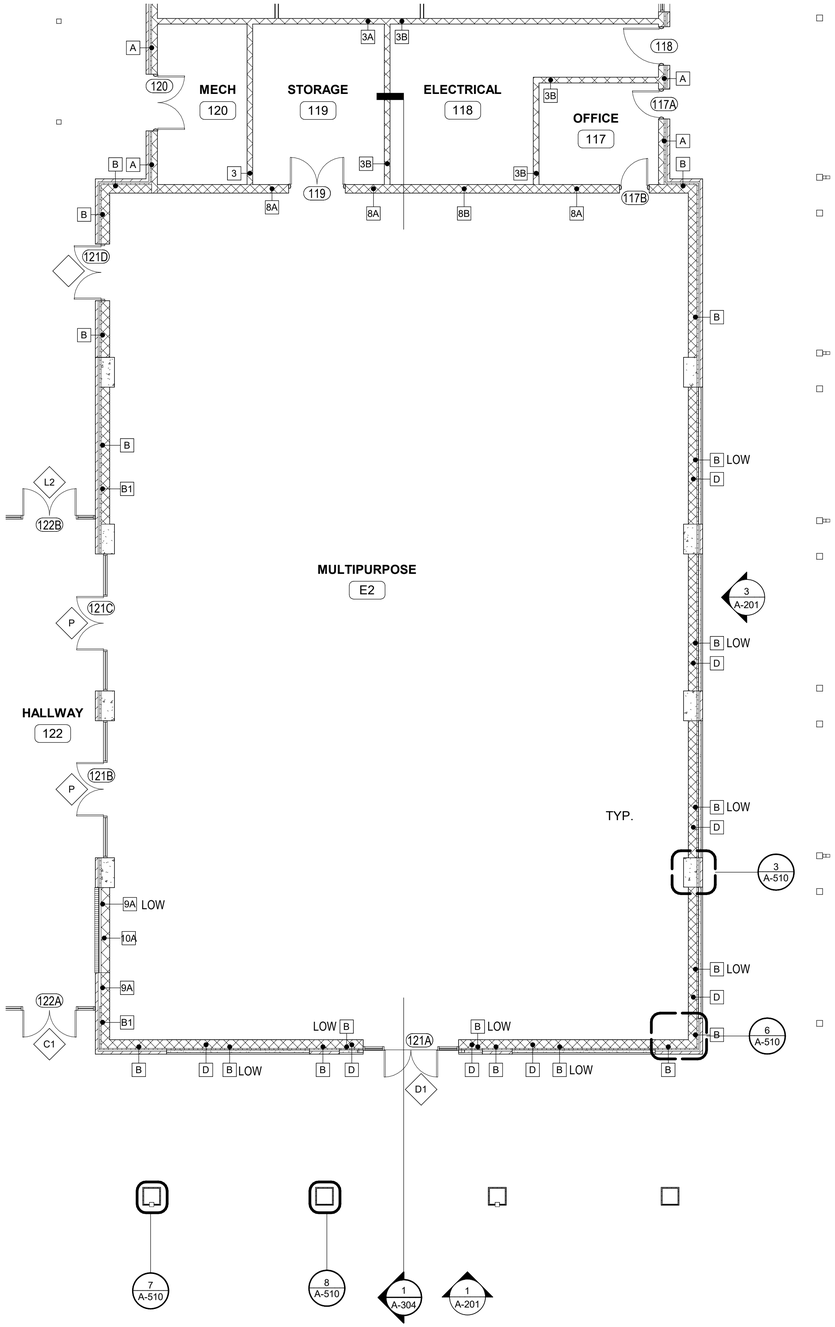
Project No.: 83X98735

Drawing Title:
PARTIAL FIRST FLOOR PLAN - AREA B

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

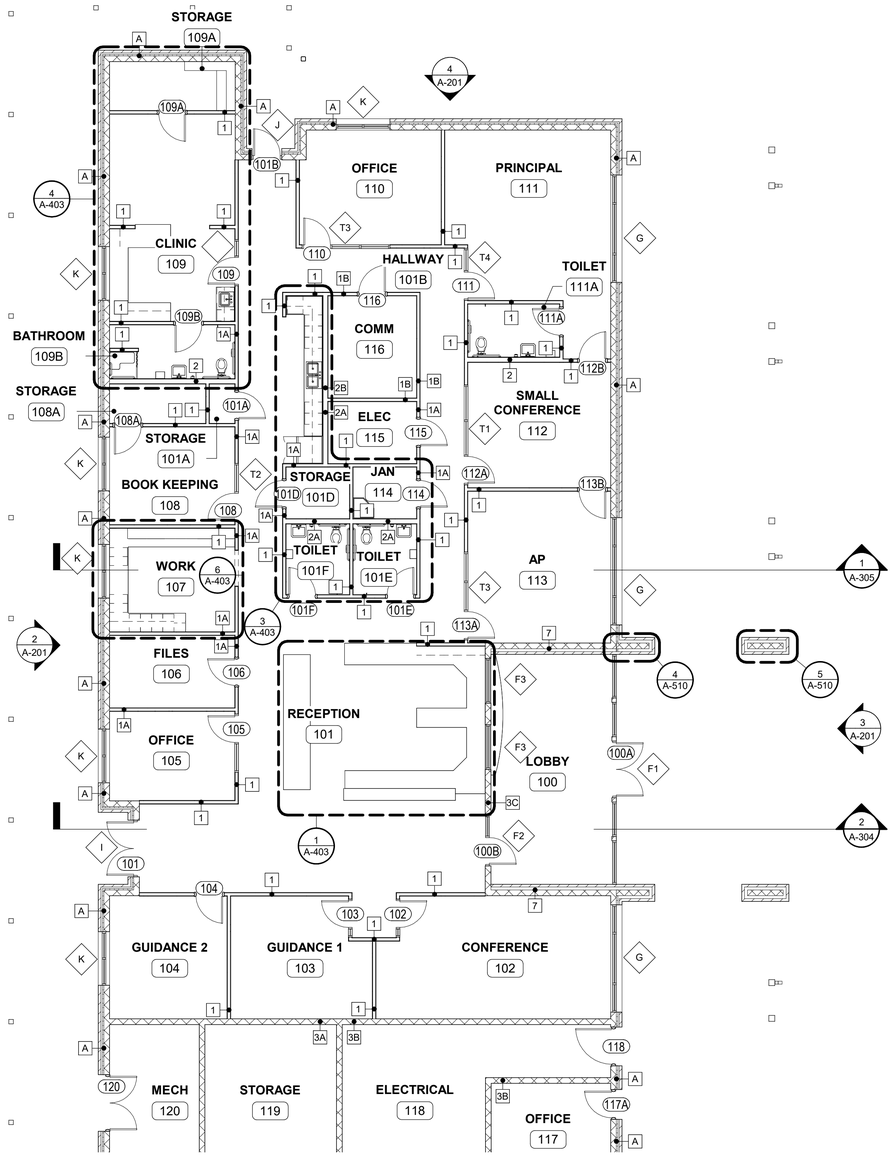
Drawing No.: A-105



PARTIAL FIRST FLOOR PLAN - AREA C

1/8" = 1'-0"

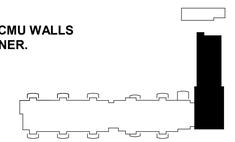
NOTE: ALL OUTSIDE CORNERS OF FINISHED CMU WALLS SHALL HAVE BULLNOSED EDGE AT THE CORNER.

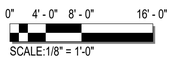


PARTIAL FIRST FLOOR PLAN - AREA D

1/8" = 1'-0"

NOTE: ALL OUTSIDE CORNERS OF FINISHED CMU WALLS SHALL HAVE BULLNOSED EDGE AT THE CORNER.





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Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

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3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:



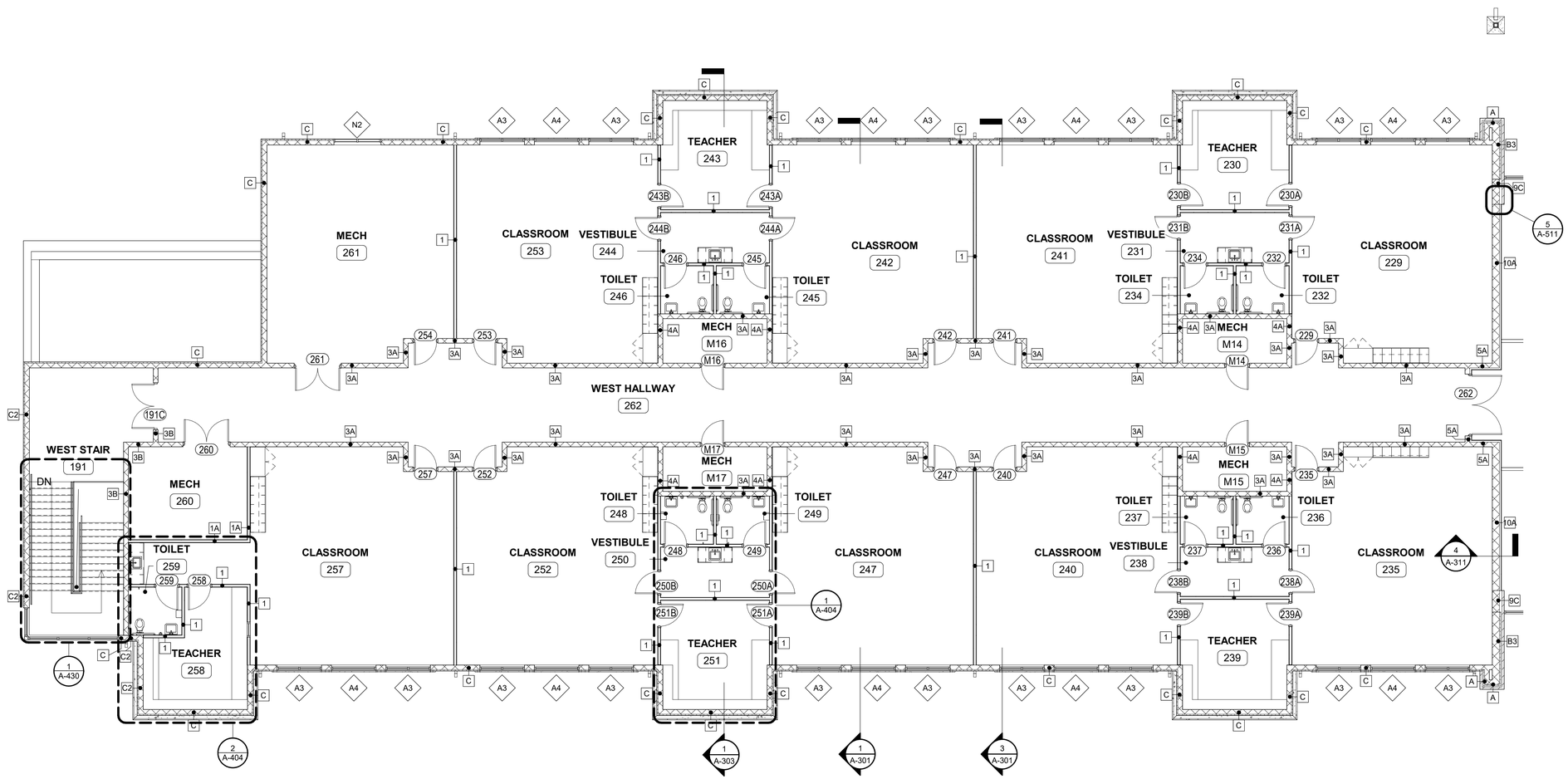
Project No.: 83X98735

Drawing Title:
PARTIAL FIRST FLOOR PLAN - AREA C & D

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-106



1 A-107 PARTIAL SECOND FLOOR PLAN - AREA A
1/8" = 1'-0"

NOTE: ALL OUTSIDE CORNERS OF FINISHED CMU WALLS SHALL HAVE BULLNOSED EDGE AT THE CORNER.

0" 4' - 0" 8' - 0" 16' - 0"
SCALE:1/8" = 1'-0"

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Florida Lic. No. C001942

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Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

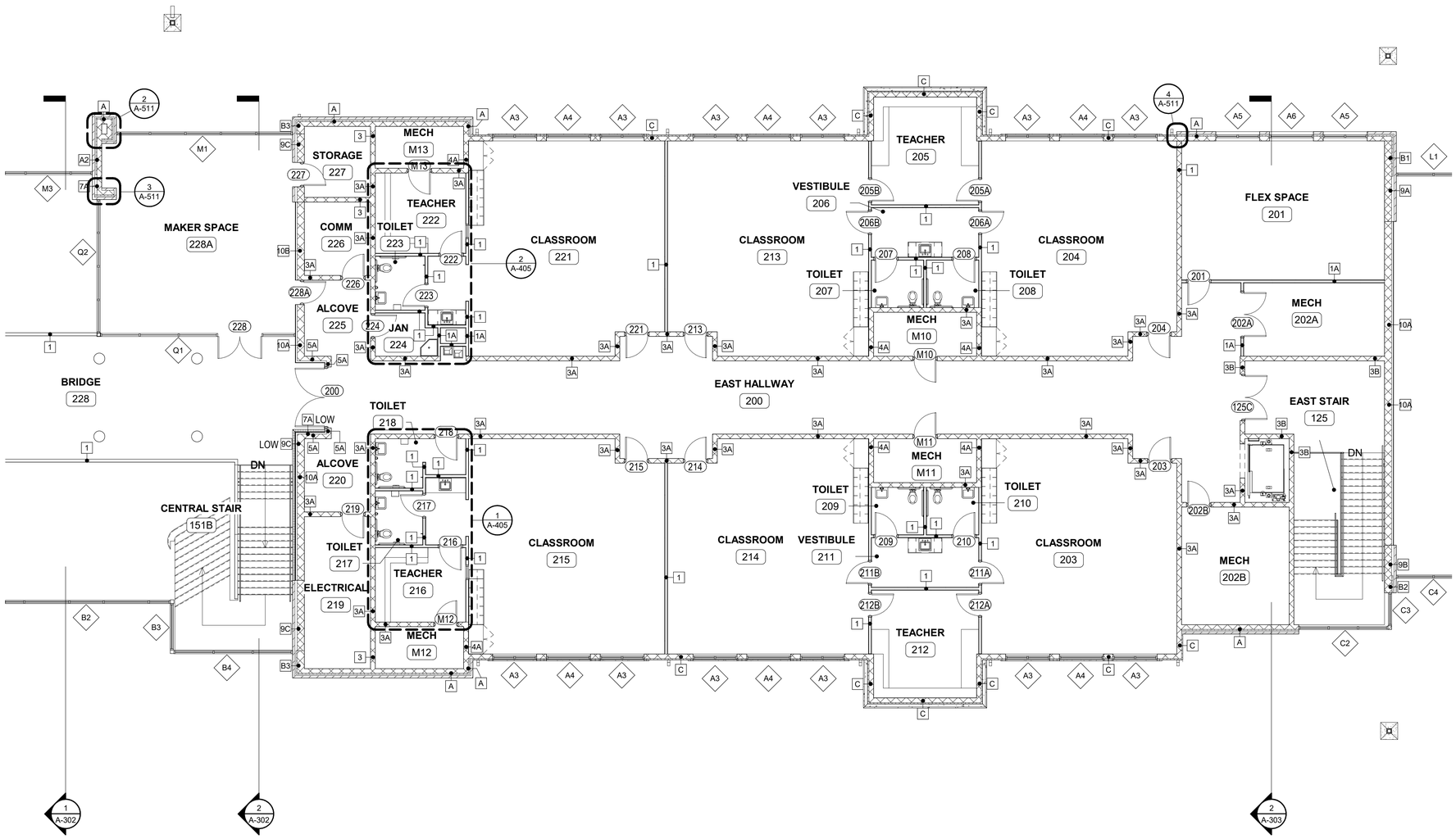
Project No.: 83X98735

Drawing Title:
PARTIAL SECOND FLOOR PLAN - AREA A

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-107



1 A-108 PARTIAL SECOND FLOOR PLAN - AREA B

1/8" = 1'-0"

NOTE: ALL OUTSIDE CORNERS OF FINISHED CMU WALLS SHALL HAVE BULLNOSED EDGE AT THE CORNER.

0" 4' - 0" 8' - 0" 16' - 0"

SCALE:1/8" = 1'-0"

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Florida Lic. No. C001942

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Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/16/2024
NO. 9262
REGISTERED ARCHITECT

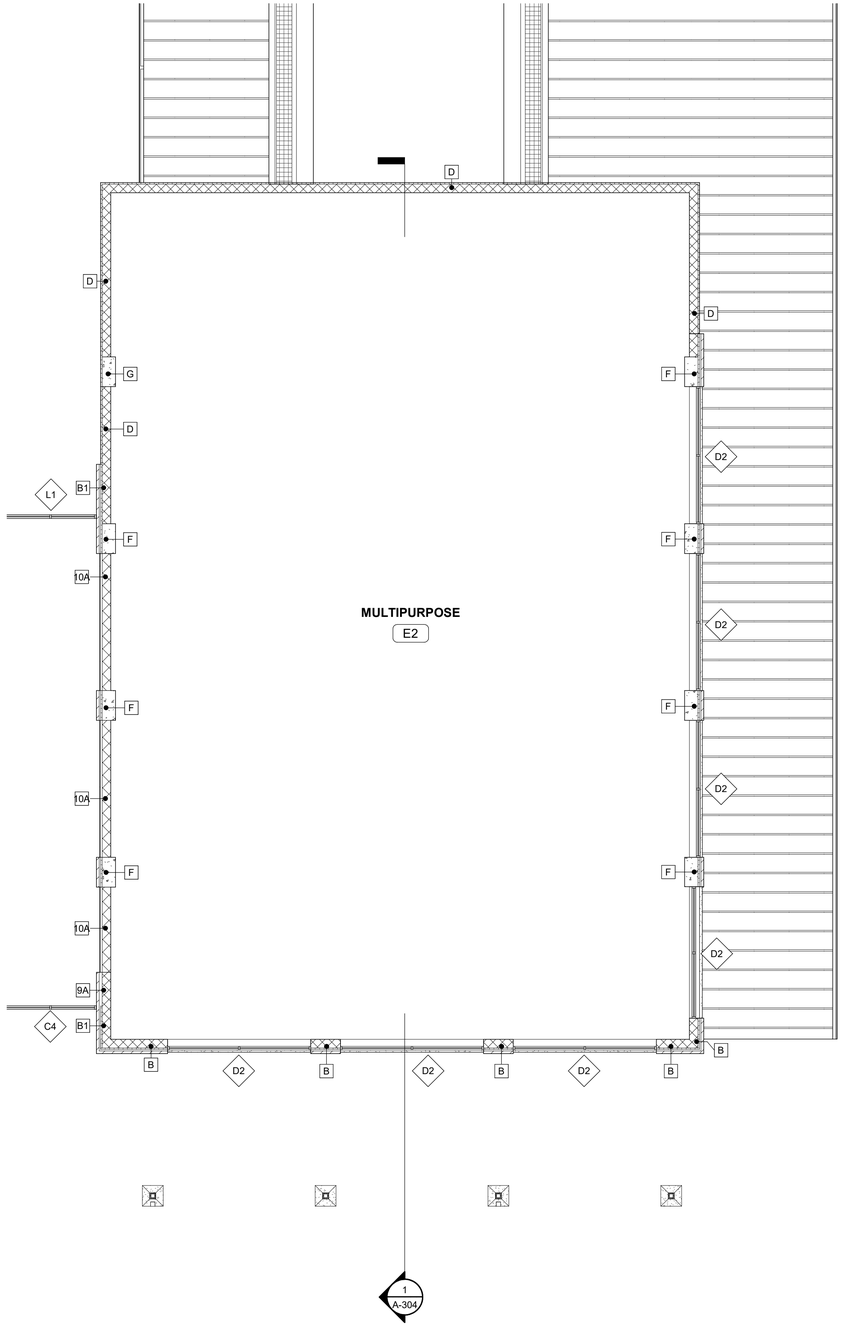
Project No.: 83X98735

Drawing Title:
PARTIAL SECOND FLOOR PLAN - AREA B

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-108



1 A-109 PARTIAL SECOND FLOOR PLAN - AREA C

1/8" = 1'-0"

NOTE: ALL OUTSIDE CORNERS OF FINISHED CMU WALLS SHALL HAVE BULLNOSED EDGE AT THE CORNER.

0" 4' - 0" 8' - 0" 16' - 0"

SCALE:1/8" = 1'-0"

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Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

Project No.: 83X98735

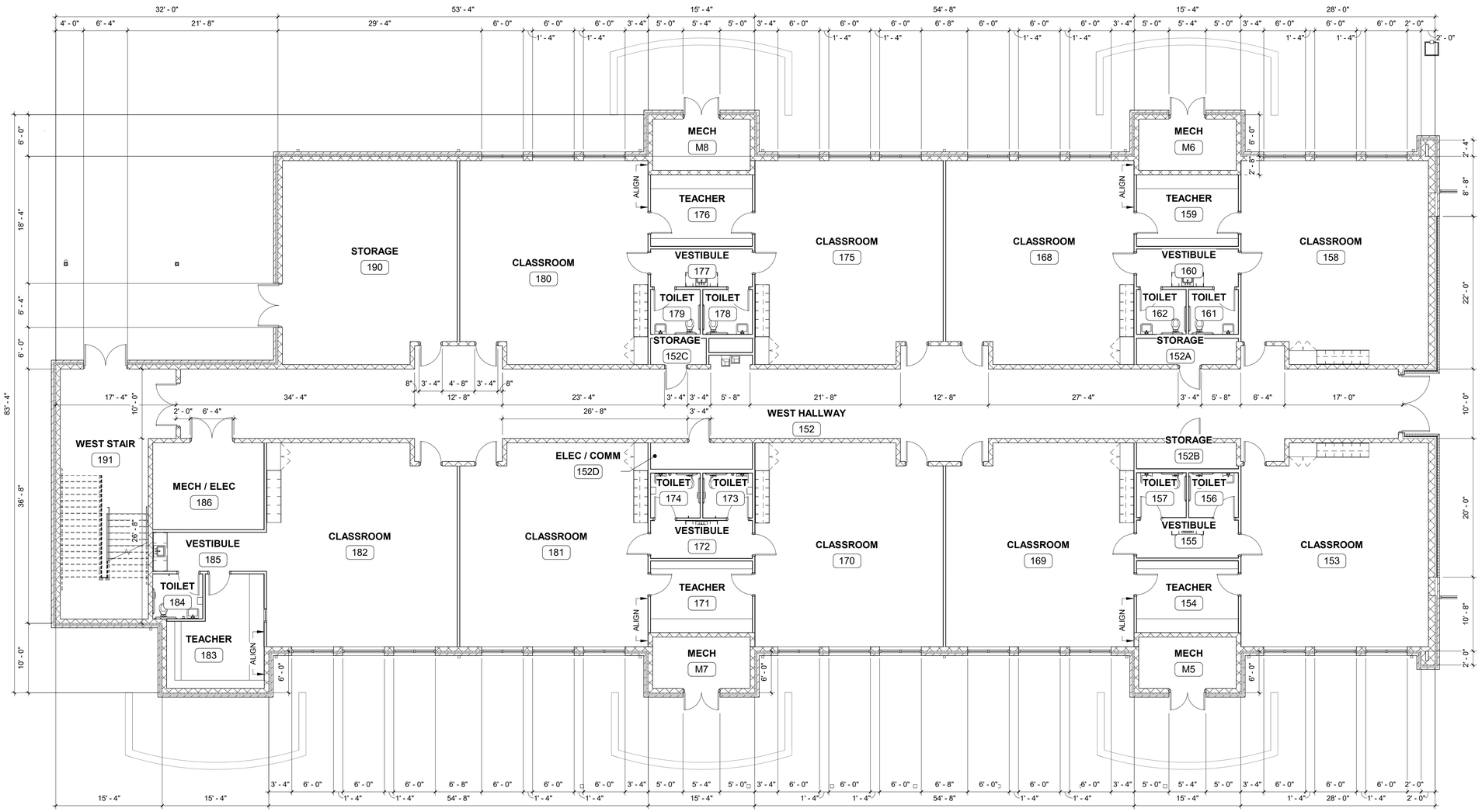
Drawing Title:

PARTIAL SECOND FLOOR PLAN - AREA C

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-109



NOTE: SEE ENLARGED PLANS FOR CONTINUATION OF DIMENSIONS.

1 A-111 PARTIAL FIRST FLOOR DIMENSION PLAN - AREA A

1/8" = 1'-0"

0" 4' - 0" 8' - 0" 16' - 0"

SCALE:1/8" = 1'-0"

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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

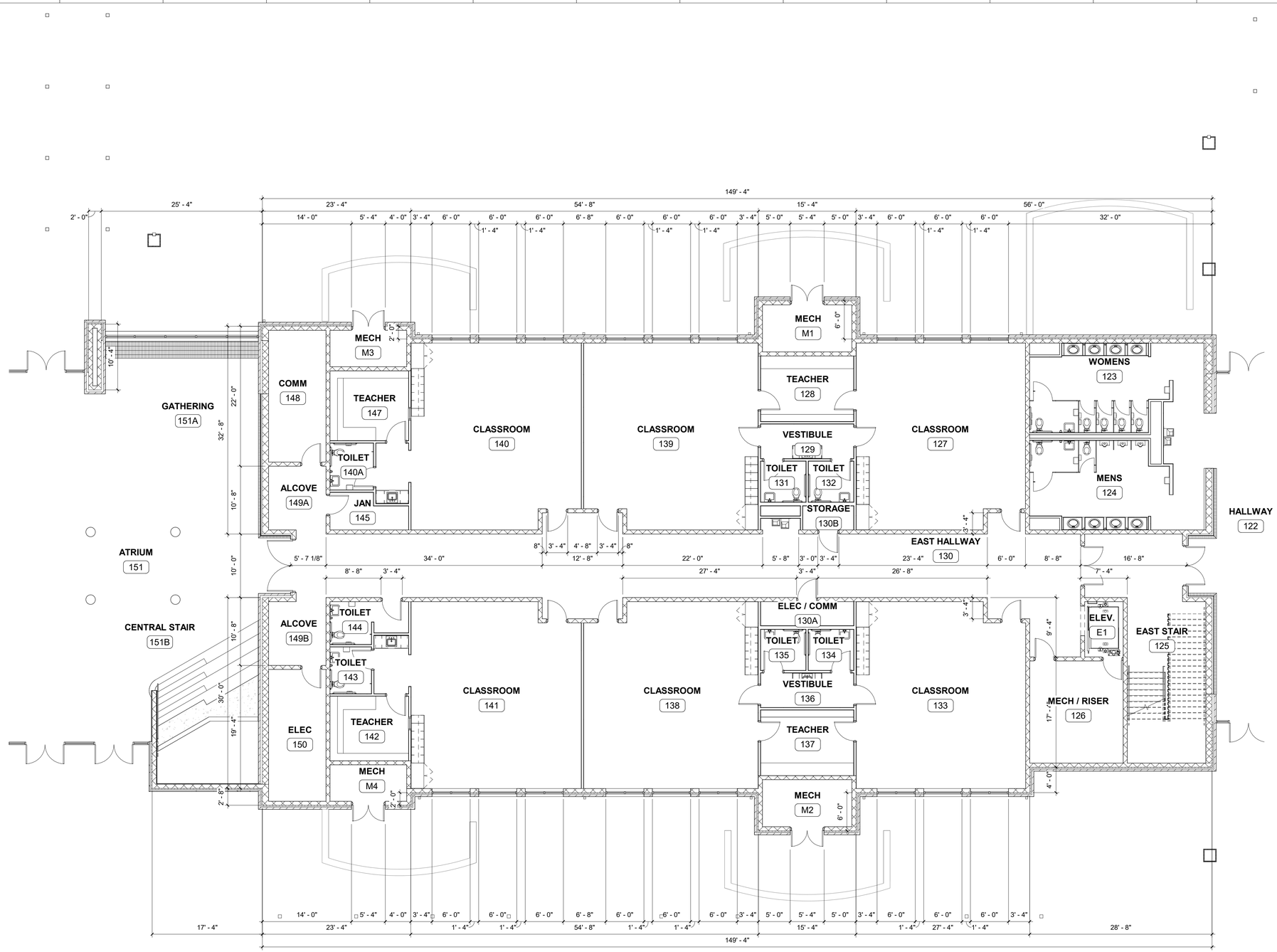
Project No.: 83X98735

Drawing Title:
PARTIAL FIRST FLOOR DIMENSION PLAN - AREA A

Date: 10 October 2024

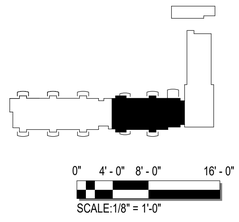
Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-111



1 A-112 PARTIAL FIRST FLOOR DIMENSION PLAN - AREA B

1/8" = 1'-0"



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Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

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3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

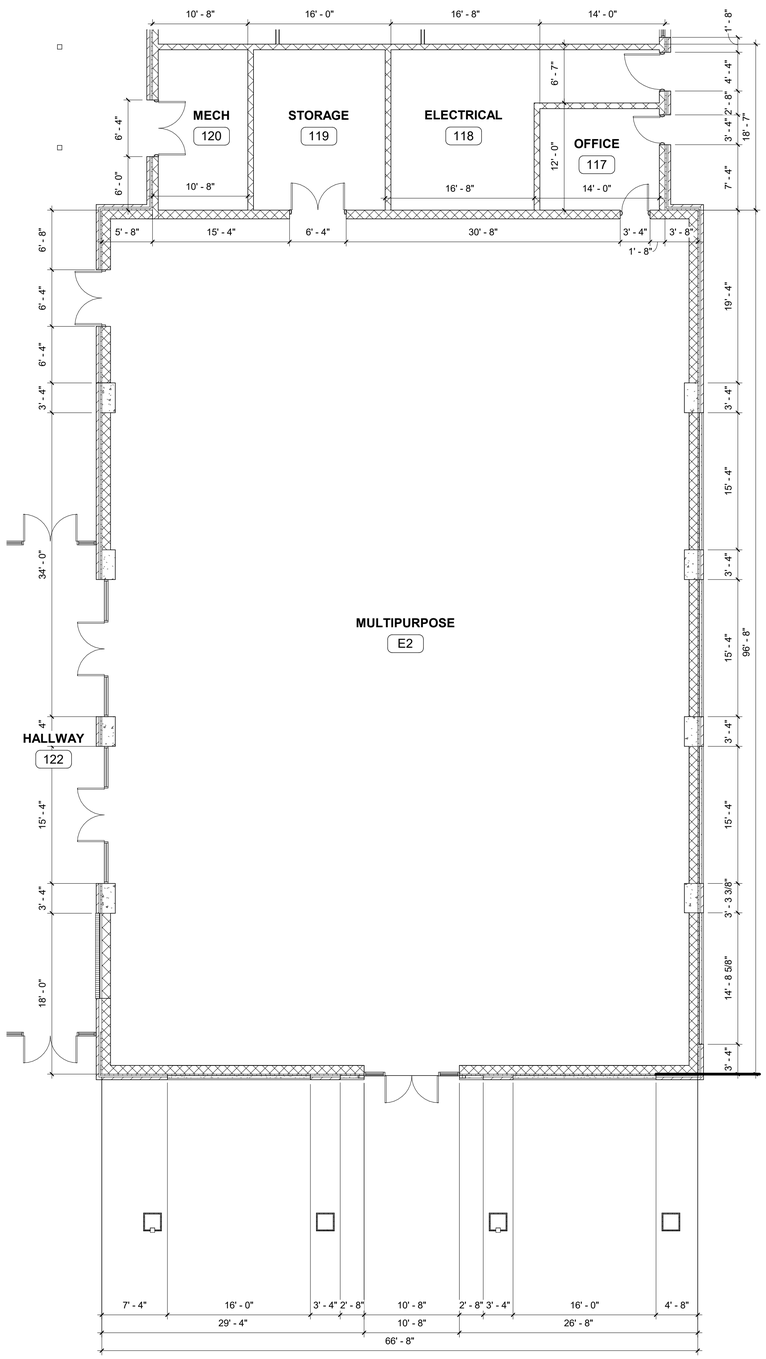
Project No.: 83X98735

Drawing Title:
PARTIAL FIRST FLOOR DIMENSION PLAN - AREA B

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

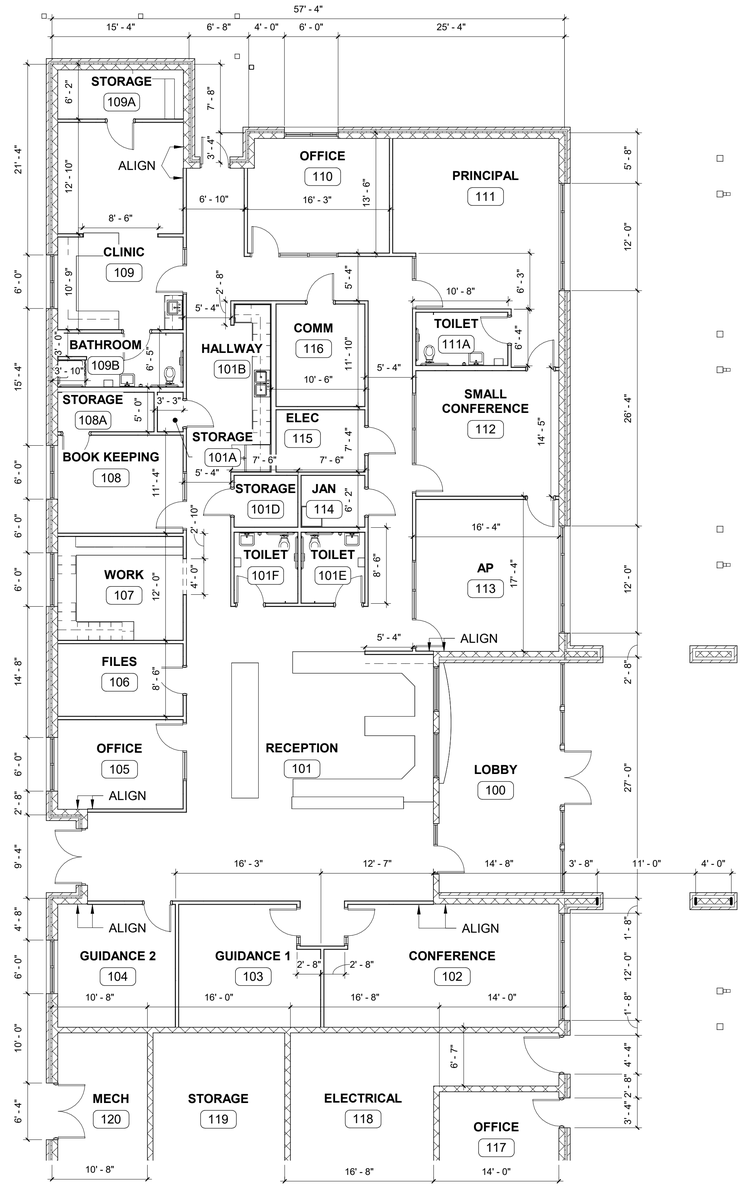
Drawing No.: A-112



NOTE: SEE ENLARGED PLANS FOR CONTINUATION OF DIMENSIONS.

1 A-113 PARTIAL FIRST FLOOR DIMENSION PLAN - AREA C

1/8" = 1'-0"



2 A-113 PARTIAL FIRST FLOOR DIMENSION PLAN - AREA D

1/8" = 1'-0"

0" 4' - 0" 8' - 0" 16' - 0"

SCALE:1/8" = 1'-0"

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Florida Lic. No. C001942

Revision:

Date:	By:	Description:

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3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

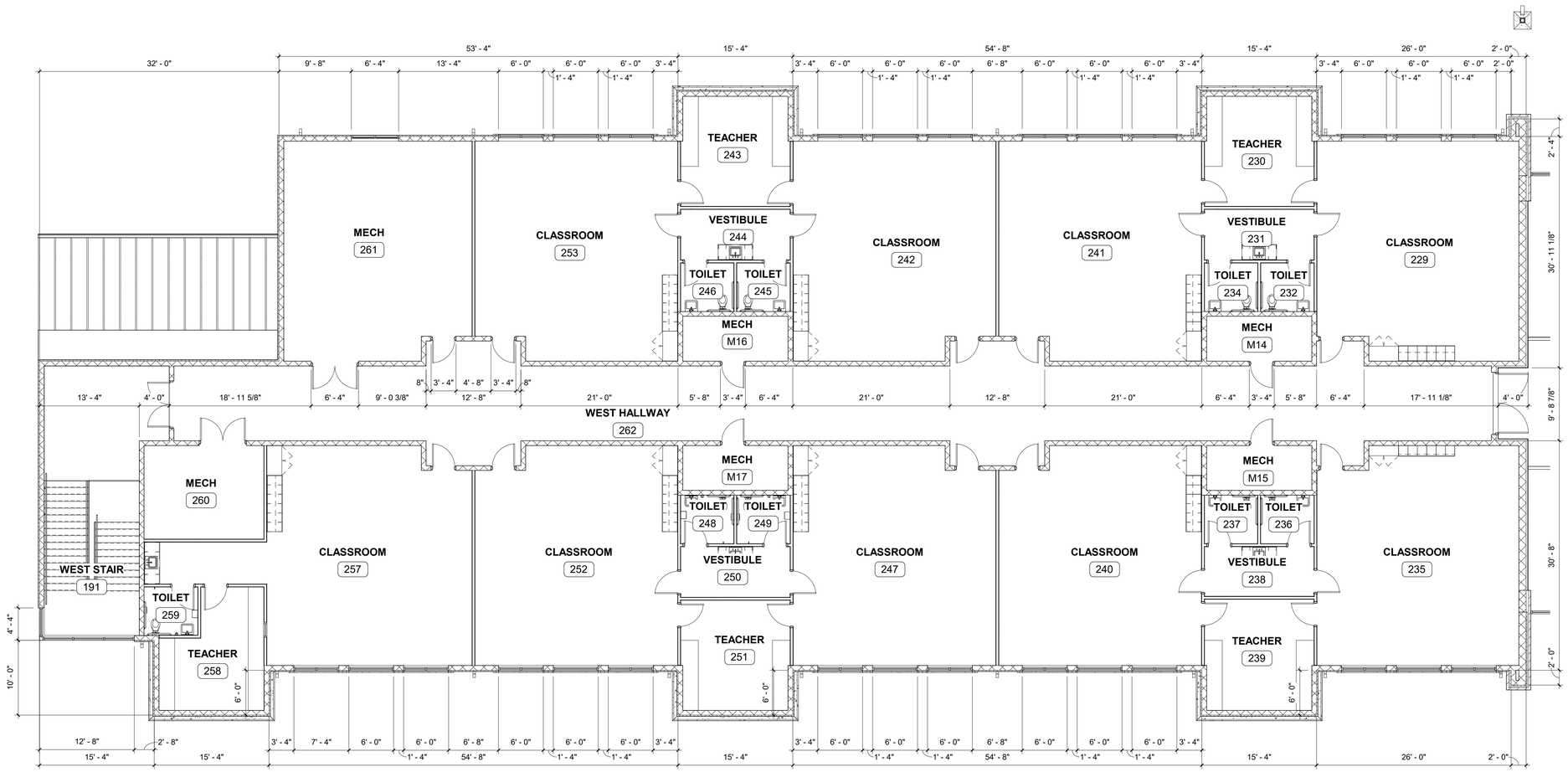
Project No.: 83X98735

Drawing Title:
PARTIAL FIRST FLOOR DIMENSION PLAN - AREA C & D

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-113



NOTE: SEE ENLARGED PLANS FOR CONTINUATION OF DIMENSIONS.

1 / A-114 PARTIAL SECOND FLOOR DIMENSION PLAN - AREA A

1/8" = 1'-0"

0" 4' - 0" 8' - 0" 16' - 0"

SCALE:1/8" = 1'-0"

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Florida Lic. No. C001942

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DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

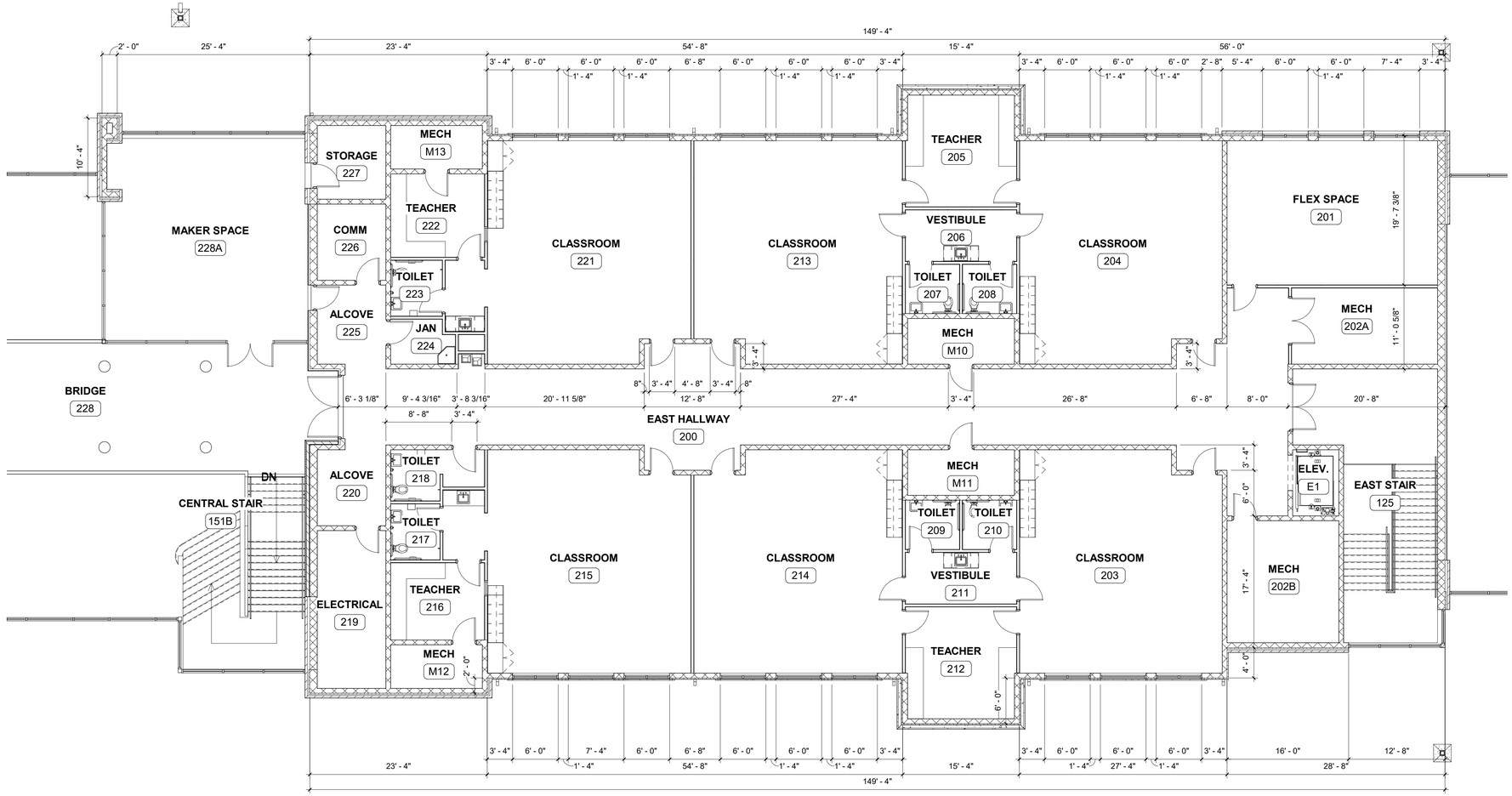
Project No.: 83X98735

Drawing Title:
PARTIAL SECOND FLOOR
DIMENSION PLAN - AREA A

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-114



NOTE: SEE ENLARGED PLANS FOR CONTINUATION OF DIMENSIONS.

1 A-115 PARTIAL SECOND FLOOR DIMENSION PLAN - AREA B

1/8" = 1'-0"

0" 4' - 0" 8' - 0" 16' - 0"

SCALE:1/8" = 1'-0"

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Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

Donald J McCarthy

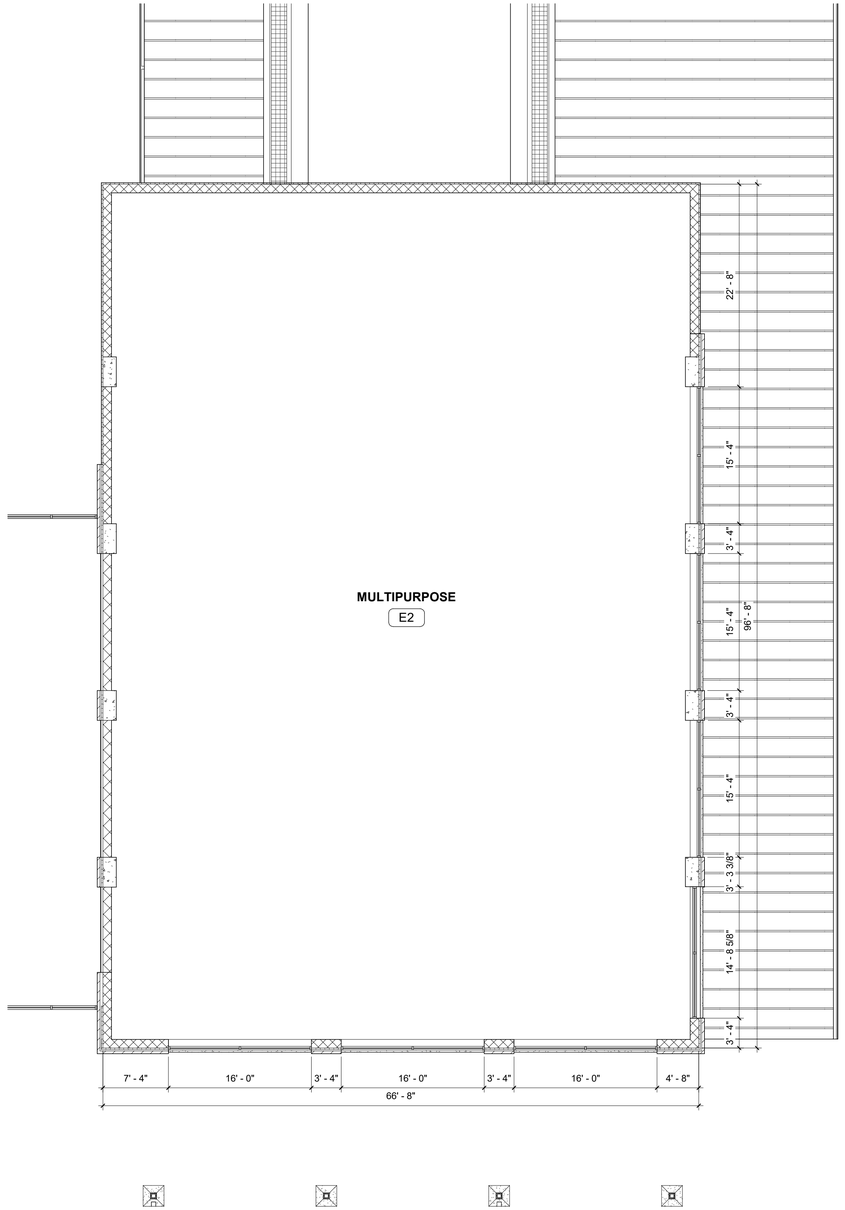
Project No.: 83X98735

Drawing Title:
PARTIAL SECOND FLOOR
DIMENSION PLAN - AREA B

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-115



1 A-116 PARTIAL SECOND FLOOR DIMENSION PLAN - AREA C

1/8" = 1'-0"



0" 4' - 0" 8' - 0" 16' - 0"

SCALE:1/8" = 1'-0"

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312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

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Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

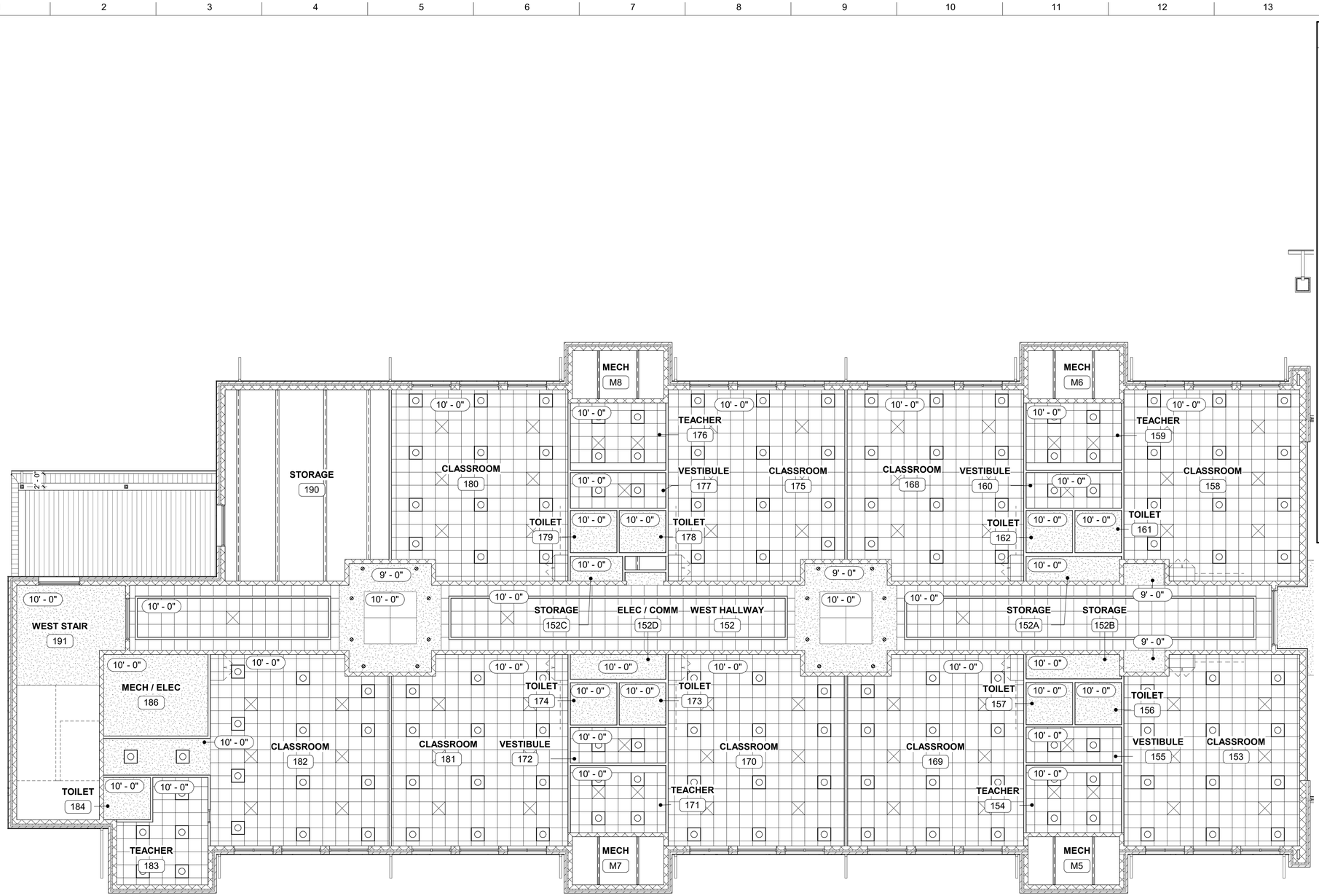
Project No.: 83X98735

Drawing Title:
PARTIAL SECOND FLOOR
DIMENSION PLAN - AREA C

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-116



GRAPHIC LEGEND

- 9' - 0" — CEILING HEIGHT INDICATOR
- ROOM NAME / 888A — SPACE IDENTIFICATION
- 1 — KEYNOTES
- 2' X 2' SUSPENDED ACOUSTICAL TILE LAY-IN CEILING WITH GRID
- SUSPENDED GYPSUM BOARD CEILING (PAINTED)
- OPEN TO STRUCTURE ABOVE (PAINTED)
- SUSPENDED METAL SLAT CEILING
- PREFINISHED METAL SOFFIT PANELS
- STUCCO SOFFIT
- 4' X 4' SUSPENDED ACOUSTICAL TILE LAY-IN CEILING WITH GRID
- SUSPENDED ACRYLIC WAVE CEILING, REFER TO BUILDING SECTIONS, BASIS OF DESIGN: ARMSTRONG SERPINTINA CLASSIC

NOTE:
REFER TO MECHANICL, ELECTICAL, PLUMBING, TELECOMMUNICATIONS, AND FIRE PROTECTION DRAWINGS FOR CEILING MOUNTED DEVICE LOCATIONS AND DESCRIPTION.

1 A-120 FIRST FLOOR REFLECTED CEILING PLAN - AREA A
1/8" = 1'-0"

0" 4' - 0" 8' - 0" 16' - 0"
SCALE:1/8" = 1'-0"

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Jacobs | TITAN TECHNOLOGIES
4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

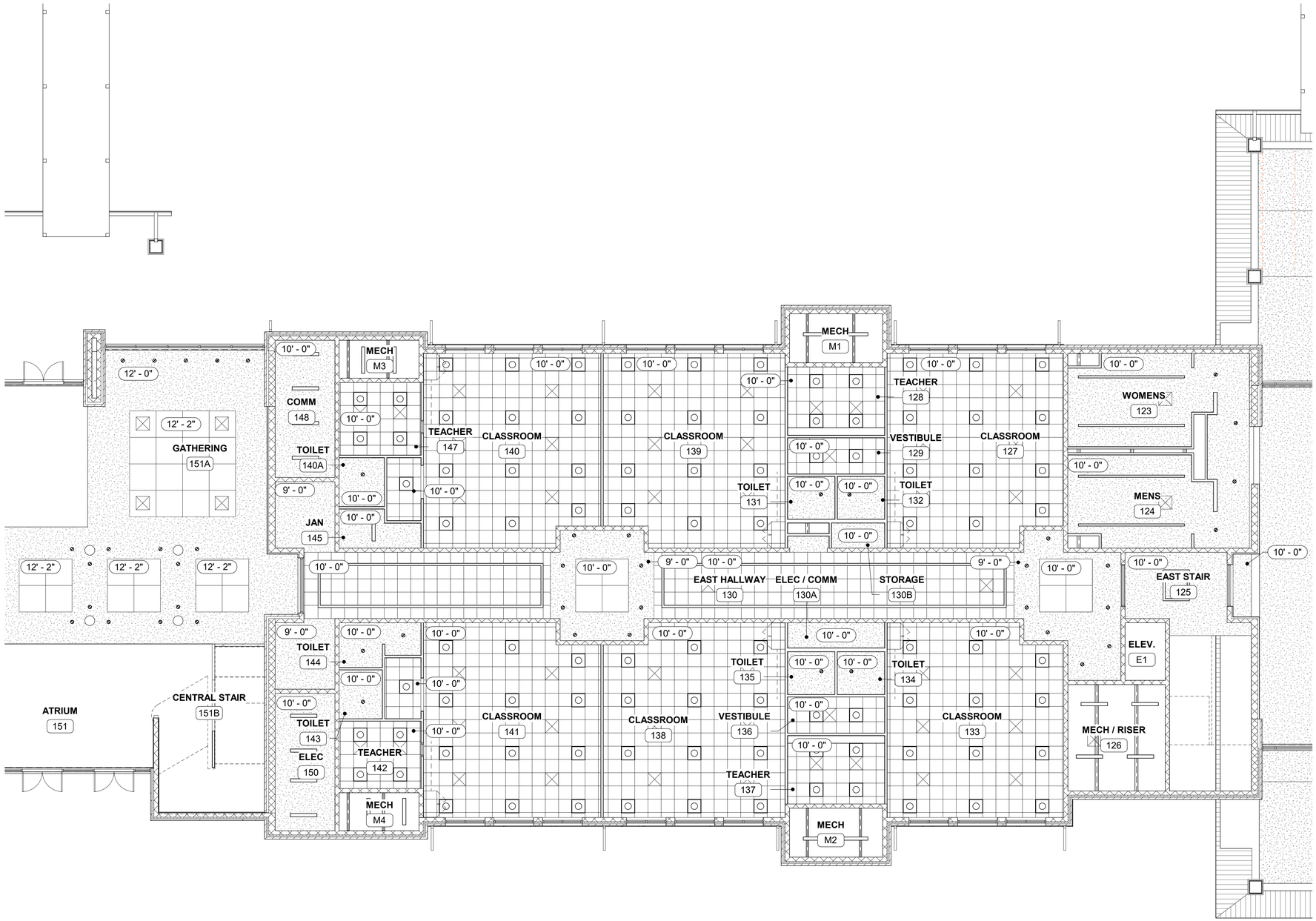
Project No.: 83X98735

Drawing Title:
PARTIAL FIRST FLOOR REFLECTED CEILING PLAN - AREA A

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-120



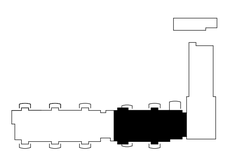
GRAPHIC LEGEND

- 9' - 0" — CEILING HEIGHT INDICATOR
- ROOM NAME / 888A — SPACE IDENTIFICATION
- 1 — KEYNOTES
- 2' X 2' SUSPENDED ACOUSTICAL TILE LAY-IN CEILING WITH GRID
- SUSPENDED GYPSUM BOARD CEILING (PAINTED)
- OPEN TO STRUCTURE ABOVE (PAINTED)
- SUSPENDED METAL SLAT CEILING
- PREFINISHED METAL SOFFIT PANELS
- STUCCO SOFFIT
- 4' X 4' SUSPENDED ACOUSTICAL TILE LAY-IN CEILING WITH GRID
- SUSPENDED ACRYLIC WAVE CEILING, REFER TO BUILDING SECTIONS, BASIS OF DESIGN: ARMSTRONG SERPINTINA CLASSIC

NOTE:
REFER TO MECHANICL, ELECTICAL, PLUMBING, TELECOMMUNICATIONS, AND FIRE PROTECTION DRAWINGS FOR CEILING MOUNTED DEVICE LOCATIONS AND DESCRIPTION.

1 / A-121 1/8" = 1'-0"

PARTIAL FIRST FLOOR REFLECTED CEILING PLAN - AREA B



100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

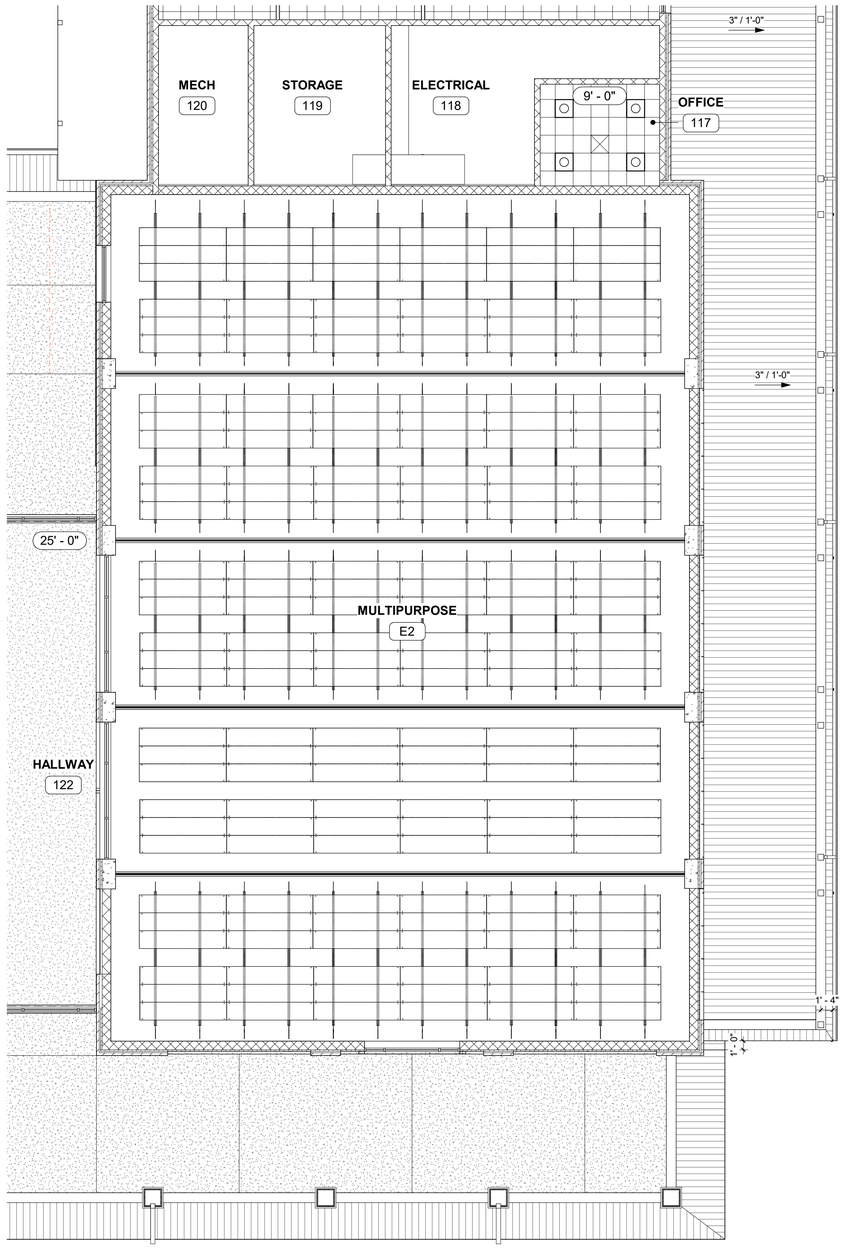
OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

Project No.: 83X98735

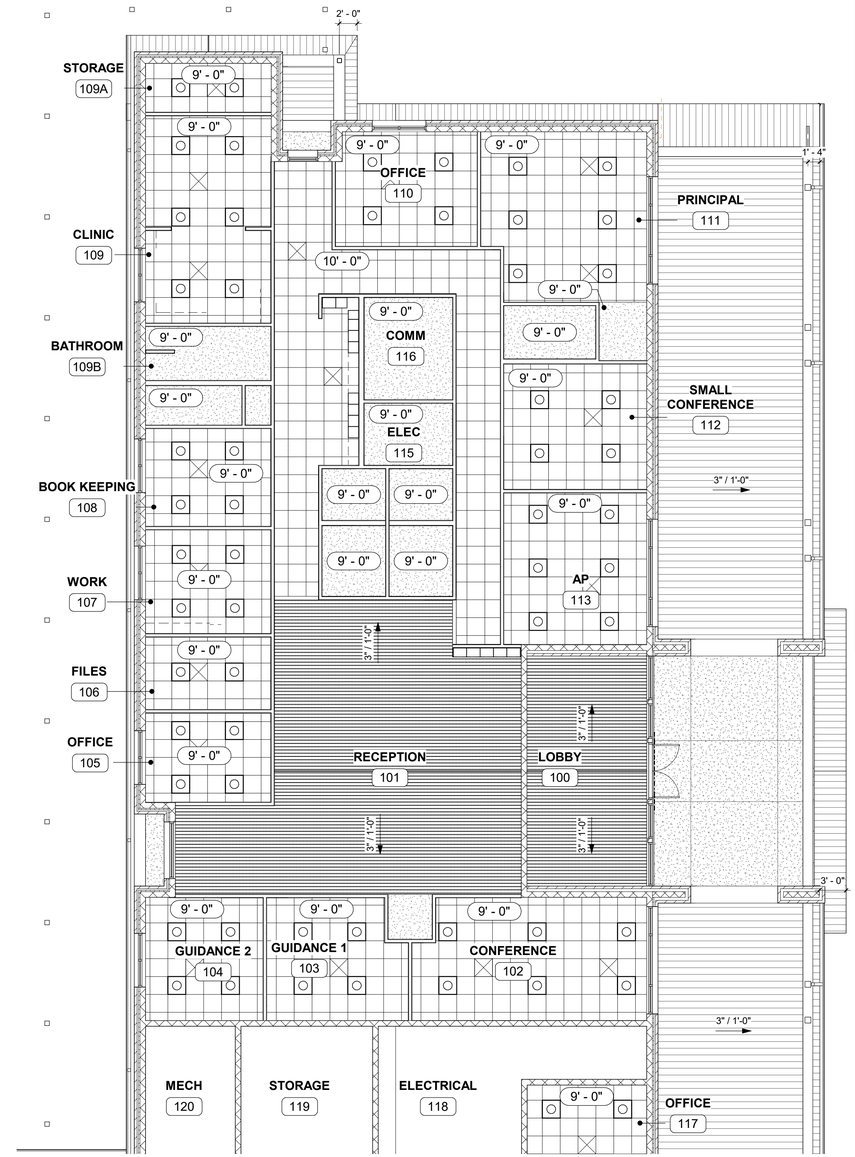
Drawing Title:
PARTIAL FIRST FLOOR REFLECTED CEILING PLAN - AREA B

Date: 10 October 2024
Designed By: RH
Drawn By: KW
Checked By: RH
Drawing No.: A-121



1 A-122 PARTIAL FIRST FLOOR REFLECTED CEILING PLAN - AREA C

1/8" = 1'-0"



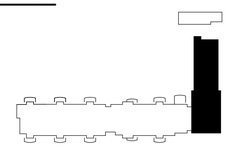
2 A-122 PARTIAL FIRST FLOOR REFLECTED CEILING PLAN - AREA D

1/8" = 1'-0"

GRAPHIC LEGEND

9' - 0"	CEILING HEIGHT INDICATOR
ROOM NAME 888A	SPACE IDENTIFICATION
1	KEYNOTES
	2' X 2' SUSPENDED ACOUSTICAL TILE LAY-IN CEILING WITH GRID
	SUSPENDED GYPSUM BOARD CEILING (PAINTED)
	OPEN TO STRUCTURE ABOVE (PAINTED)
	SUSPENDED METAL SLAT CEILING
	PREFINISHED METAL SOFFIT PANELS
	STUCCO SOFFIT
	4' X 4' SUSPENDED ACOUSTICAL TILE LAY-IN CEILING WITH GRID
	SUSPENDED ACRYLIC WAVE CEILING, REFER TO BUILDING SECTIONS, BASIS OF DESIGN: ARMSTRONG SERPINTINA CLASSIC

NOTE:
REFER TO MECHANICL, ELECTICAL, PLUMBING, TELECOMMUNICATIONS, AND FIRE PROTECTION DRAWINGS FOR CEILING MOUNTED DEVICE LOCATIONS AND DESCRIPTION.



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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
DONALD ALLEN MCCARTHY
10/10/2024
NO. 9262
REGISTERED ARCHITECT

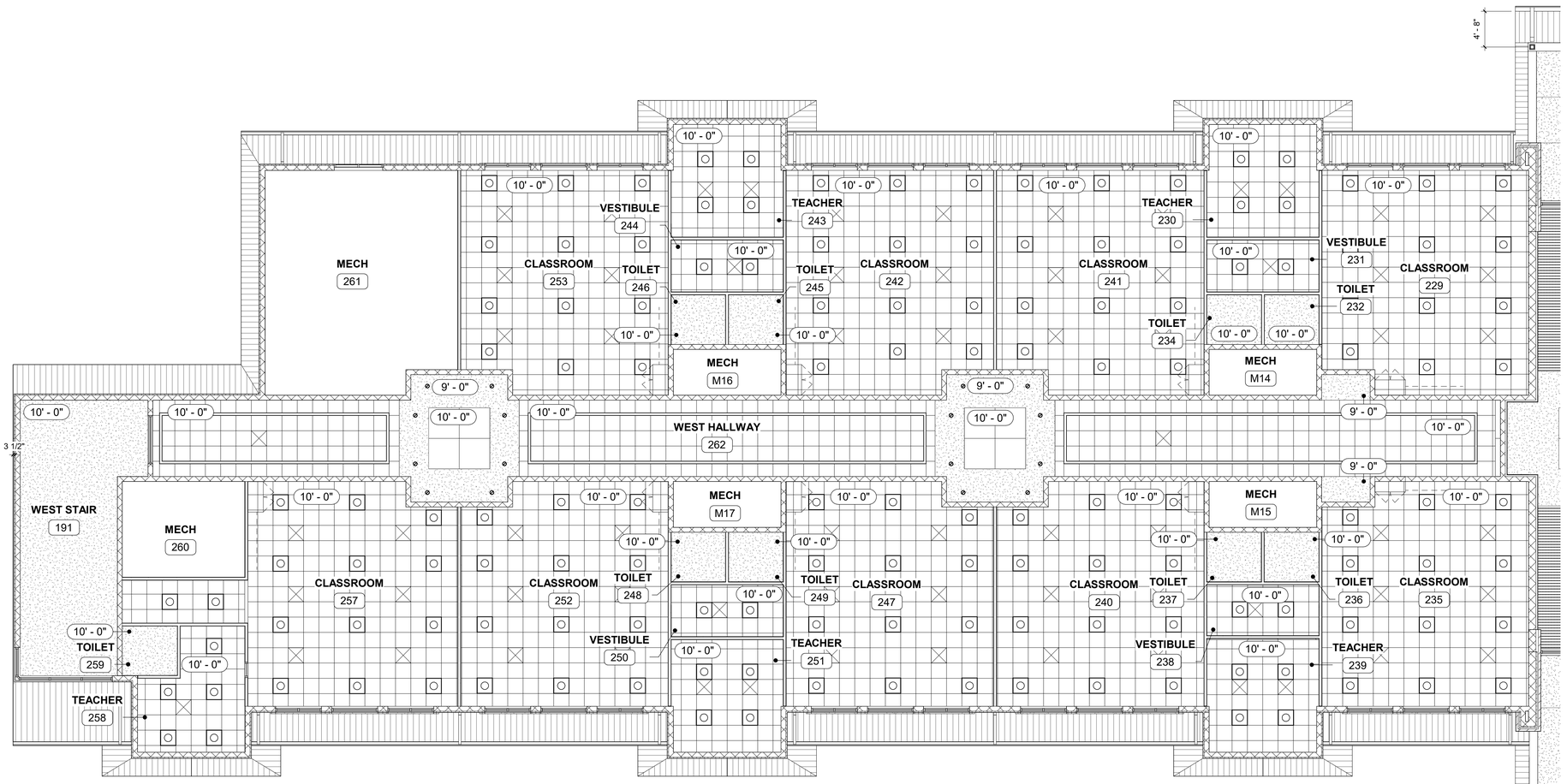
Project No.: 83X98735

Drawing Title:
PARTIAL FIRST FLOOR REFLECTED CEILING PLAN - AREA C & D

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-122



1 A-123 PARTIAL SECOND FLOOR REFLECTED CEILING PLAN - AREA A

1/8" = 1'-0"

0" 4' - 0" 8' - 0" 16' - 0"

SCALE:1/8" = 1'-0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

GRAPHIC LEGEND

9' - 0"	CEILING HEIGHT INDICATOR
ROOM NAME 888A	SPACE IDENTIFICATION
1	KEYNOTES
	2' X 2' SUSPENDED ACOUSTICAL TILE LAY-IN CEILING WITH GRID
	SUSPENDED GYPSUM BOARD CEILING (PAINTED)
	OPEN TO STRUCTURE ABOVE (PAINTED)
	SUSPENDED METAL SLAT CEILING
	PREFINISHED METAL SOFFIT PANELS
	STUCCO SOFFIT
	4' X 4' SUSPENDED ACOUSTICAL TILE LAY-IN CEILING WITH GRID
	SUSPENDED ACRYLIC WAVE CEILING, REFER TO BUILDING SECTIONS, BASIS OF DESIGN: ARMSTRONG SERPINTINA CLASSIC

NOTE:
REFER TO MECHANICL, ELECTICAL, PLUMBING, TELECOMMUNICATIONS, AND FIRE PROTECTION DRAWINGS FOR CEILING MOUNTED DEVICE LOCATIONS AND DESCRIPTION.

Jacobs | TITAN TECHNOLOGIES

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Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY · SCHOOL DISTRICT ·

Seal:

STATE OF FLORIDA · DONALD ALLEN HEFFERNAN · 10/15/2024 · NO. 9262 · REGISTERED ARCHITECT

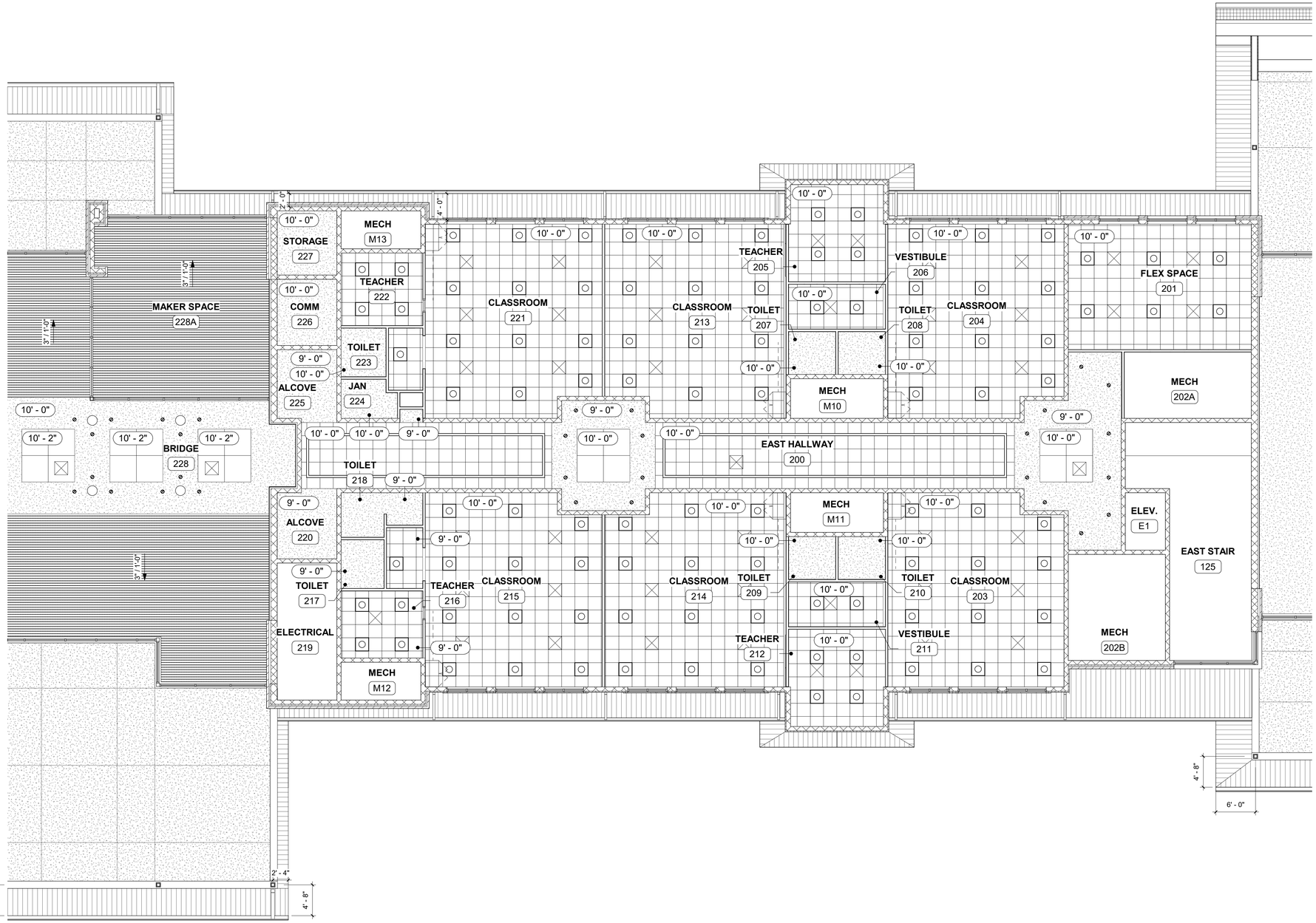
Project No.: 83X98735

Drawing Title:
PARTIAL SECOND FLOOR REFLECTED CEILING PLAN - AREA A

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-123



GRAPHIC LEGEND

- 9' - 0" — CEILING HEIGHT INDICATOR
- ROOM NAME / 888A — SPACE IDENTIFICATION
- 1 — KEYNOTES
- 2' X 2' SUSPENDED ACOUSTICAL TILE LAY-IN CEILING WITH GRID
- SUSPENDED GYPSUM BOARD CEILING (PAINTED)
- OPEN TO STRUCTURE ABOVE (PAINTED)
- SUSPENDED METAL SLAT CEILING
- PREFINISHED METAL SOFFIT PANELS
- STUCCO SOFFIT
- 4' X 4' SUSPENDED ACOUSTICAL TILE LAY-IN CEILING WITH GRID
- SUSPENDED ACRYLIC WAVE CEILING, REFER TO BUILDING SECTIONS, BASIS OF DESIGN: ARMSTRONG SERPINTINA CLASSIC

NOTE:
REFER TO MECHANICL, ELECTICAL, PLUMBING, TELECOMMUNICATIONS, AND FIRE PROTECTION DRAWINGS FOR CEILING MOUNTED DEVICE LOCATIONS AND DESCRIPTION.

1 A-124 PARTIAL SECOND FLOOR REFLECTED CEILING PLAN - AREA B
1/8" = 1'-0"

0" 4' - 0" 8' - 0" 16' - 0"
SCALE:1/8" = 1'-0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HOLLAND
10/10/2024
NO. 9262
REGISTERED ARCHITECT

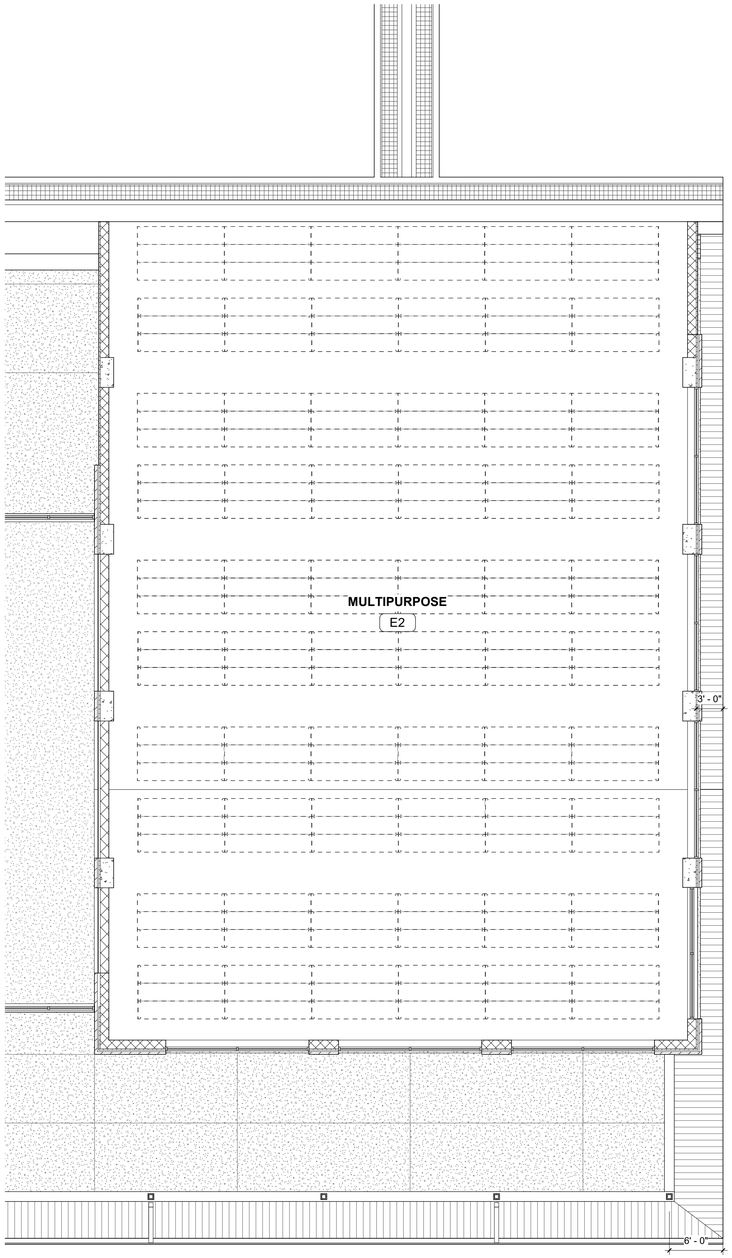
Project No.: 83X98735

Drawing Title:
PARTIAL SECOND FLOOR REFLECTED CEILING PLAN - AREA B

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-124



GRAPHIC LEGEND

9' - 0"	CEILING HEIGHT INDICATOR
ROOM NAME 888A	SPACE IDENTIFICATION
1	KEYNOTES
	2' X 2' SUSPENDED ACOUSTICAL TILE LAY-IN CEILING WITH GRID
	SUSPENDED GYPSUM BOARD CEILING (PAINTED)
	OPEN TO STRUCTURE ABOVE (PAINTED)
	SUSPENDED METAL SLAT CEILING
	PREFINISHED METAL SOFFIT PANELS
	STUCCO SOFFIT
	4' X 4' SUSPENDED ACOUSTICAL TILE LAY-IN CEILING WITH GRID
	SUSPENDED ACRYLIC WAVE CEILING, REFER TO BUILDING SECTIONS, BASIS OF DESIGN: ARMSTRONG SERPINTINA CLASSIC

NOTE:
REFER TO MECHANICL, ELECTICAL, PLUMBING, TELECOMMUNICATIONS, AND FIRE PROTECTION DRAWINGS FOR CEILING MOUNTED DEVICE LOCATIONS AND DESCRIPTION.

1 A-125 PARTIAL SECOND FLOOR REFLECTED CEILING PLAN - AREA C
1/8" = 1'-0"

0" 4' - 0" 8' - 0" 16' - 0"
SCALE:1/8" = 1'-0"

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

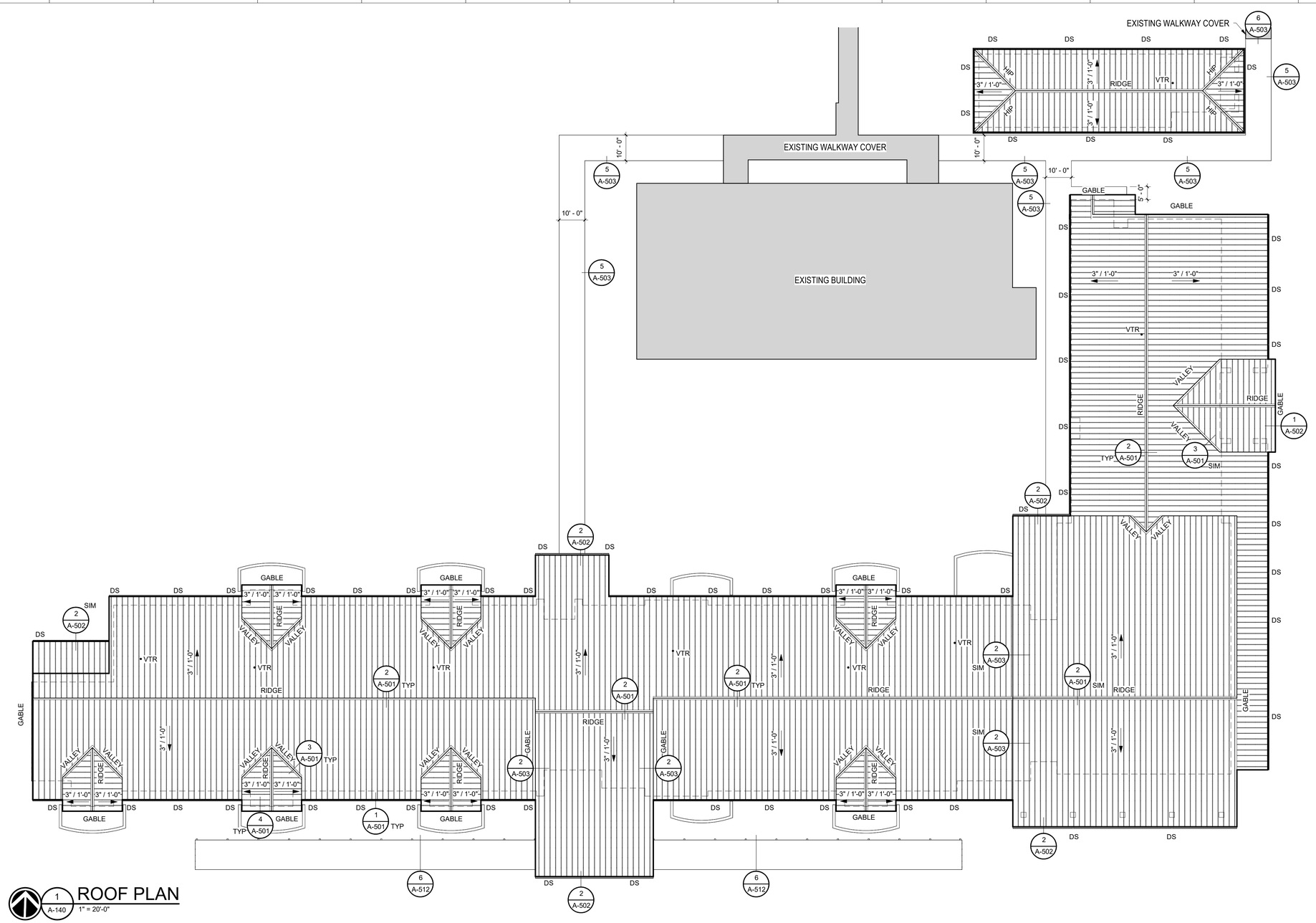
Project No.: 83X98735

Drawing Title:
PARTIAL SECOND FLOOR REFLECTED CEILING PLAN - AREA C

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-125



1 A-140 ROOF PLAN
1" = 20'-0"

0" 10' - 0" 20' - 0" 40' - 0"
SCALE:1'-0" = 20'-0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

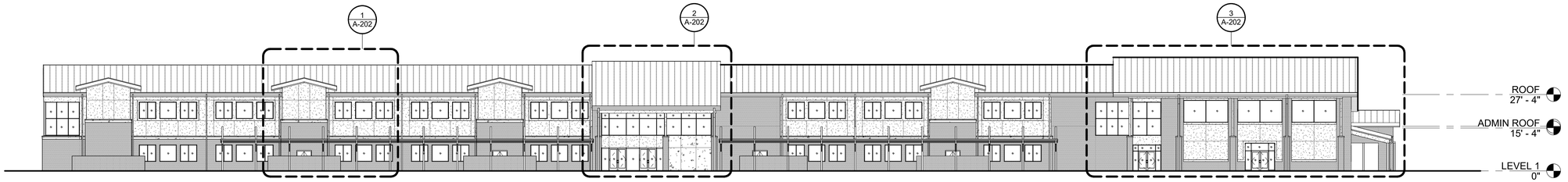
Project No.: 83X98735

Drawing Title:
ROOF PLAN

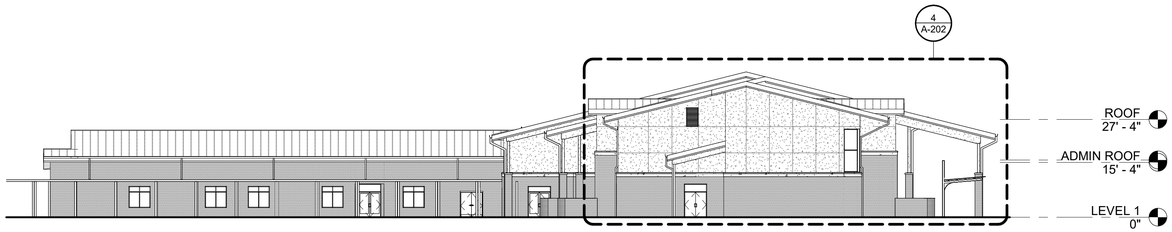
Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

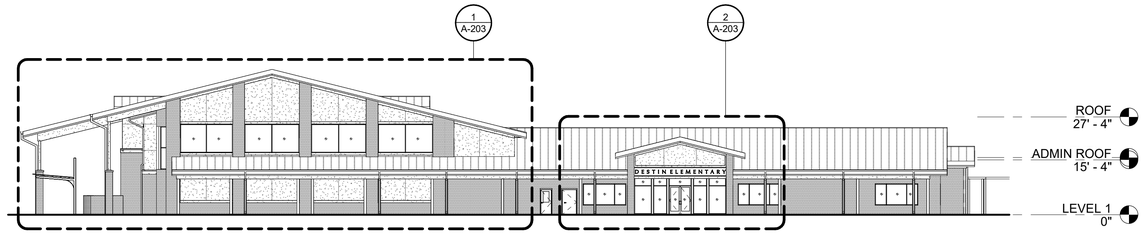
Drawing No.: A-140



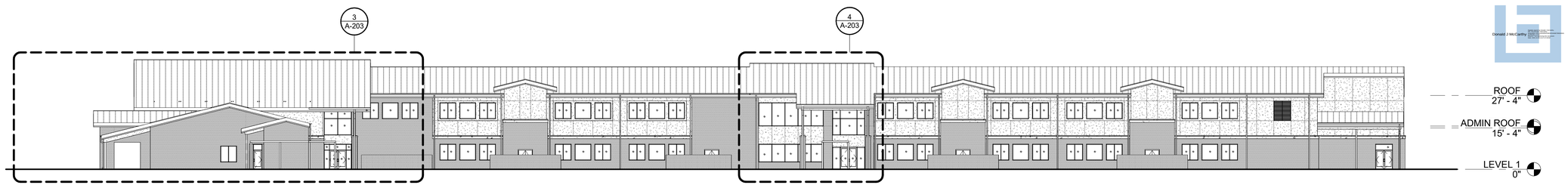
1 A-201 FRONT (SOUTH) ELEVATION
1" = 20'-0"



2 A-201 LEFT (WEST) ELEVATION
1" = 20'-0"



3 A-201 RIGHT (EAST) ELEVATION
1" = 20'-0"



4 A-201 REAR (NORTH) ELEVATION
1" = 20'-0"

0" 10' - 0" 20' - 0" 40' - 0"
SCALE:1'-0" = 20'-0"

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
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Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
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Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

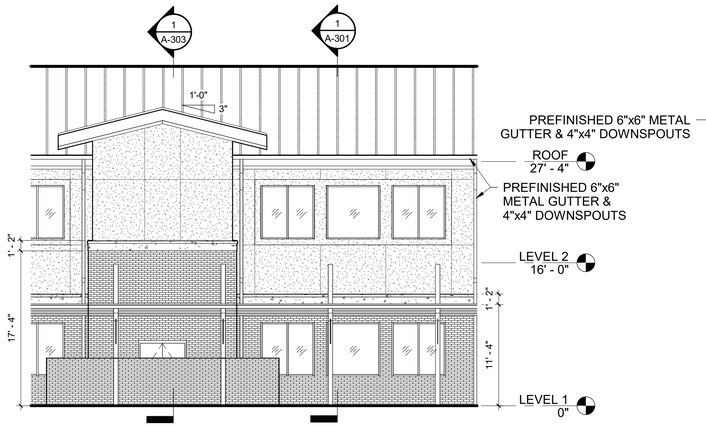
Project No.: 83X98735

Drawing Title:
EXTERIOR ELEVATIONS

Date: 10 October 2024

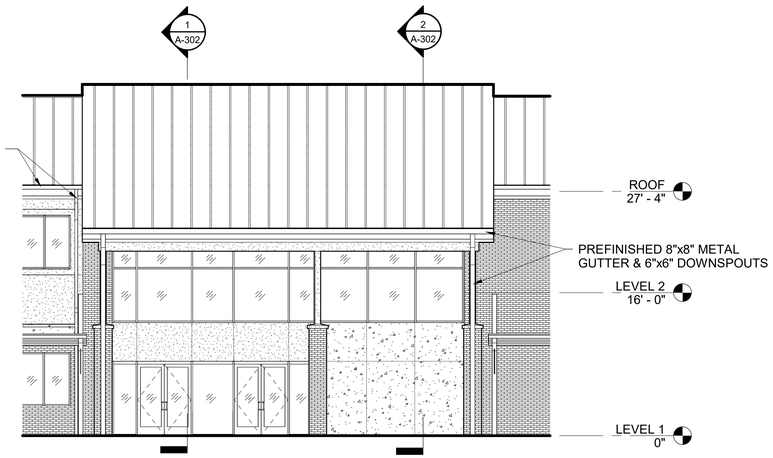
Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-201



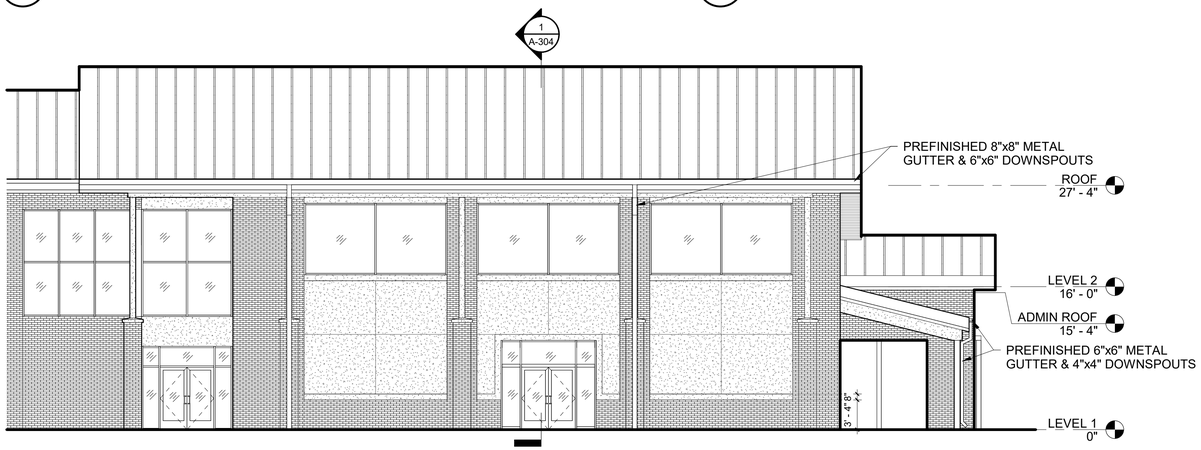
1 A-303 1 A-301

1 A-202 FRONT (SOUTH) ELEVATION
1/8" = 1'-0"



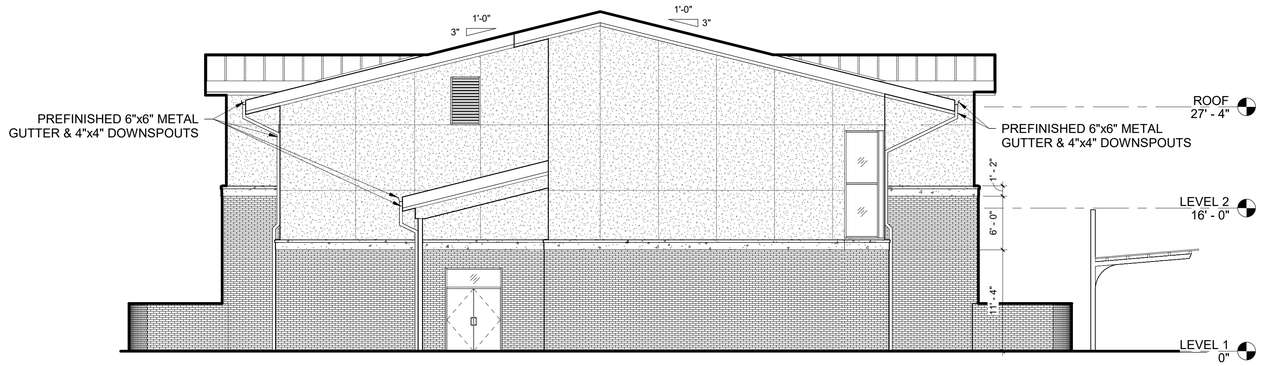
1 A-302 2 A-302

2 A-202 FRONT (SOUTH) ELEVATION
1/8" = 1'-0"



1 A-304

3 A-202 FRONT (SOUTH) ELEVATION
1/8" = 1'-0"



4 A-202 LEFT (WEST) ELEVATION
1/8" = 1'-0"

0" 4' - 0" 8' - 0" 16' - 0"
SCALE:1/8" = 1'-0"

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

Donald J McCarthy

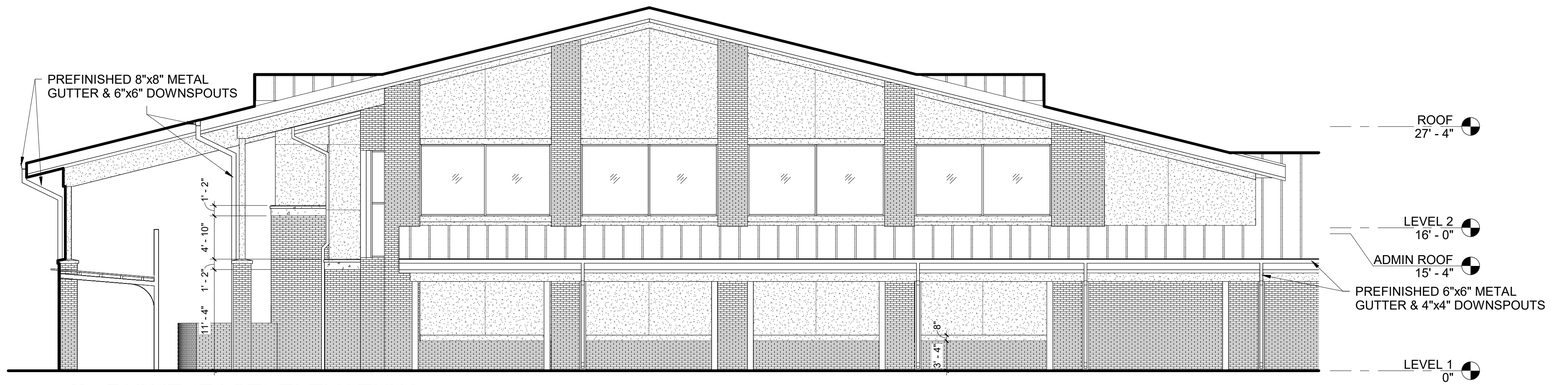
Project No.: 83X98735

Drawing Title:
ENLARGED EXTERIOR ELEVATIONS

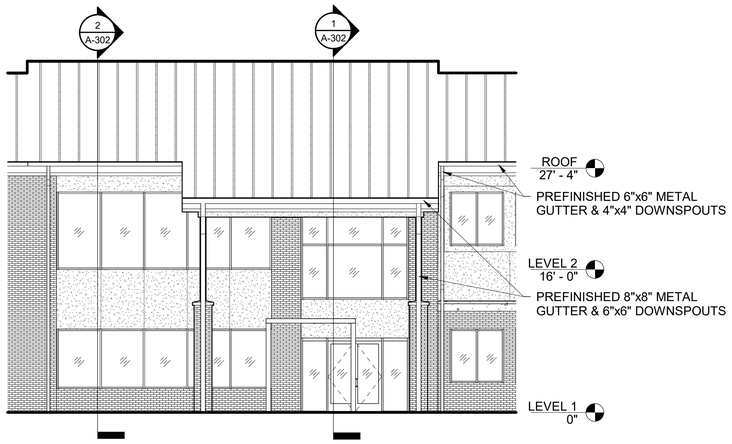
Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

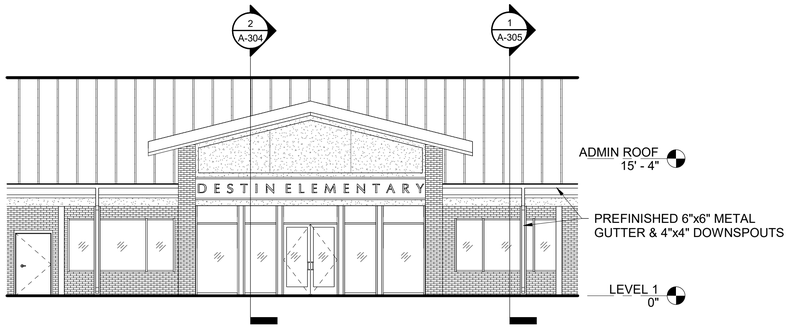
Drawing No.: A-202



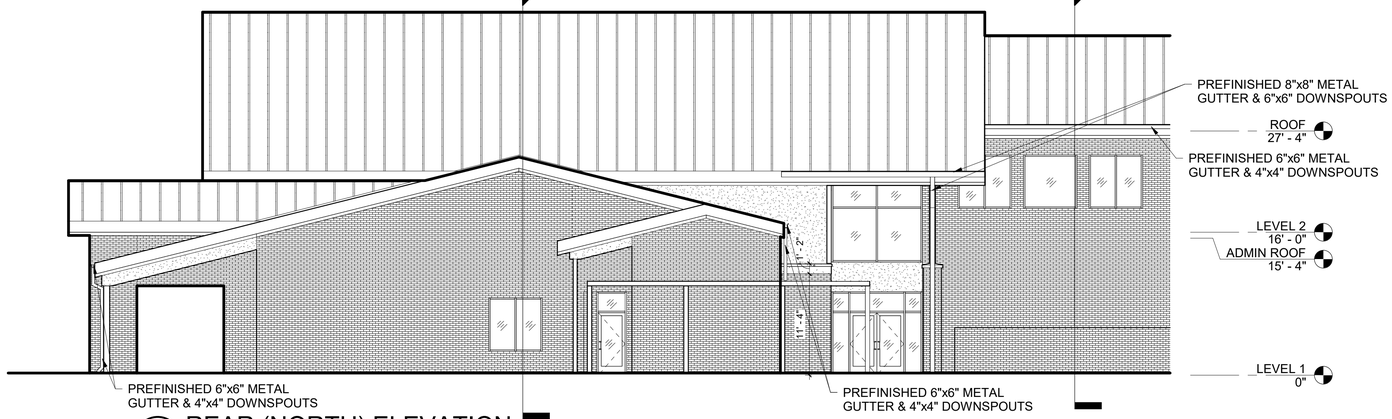
1 A-203 RIGHT (EAST) ELEVATION
1/8" = 1'-0"



4 A-203 REAR (NORTH) ELEVATION
1/8" = 1'-0"



2 A-203 RIGHT (EAST) ELEVATION
1/8" = 1'-0"



3 A-203 REAR (NORTH) ELEVATION
1/8" = 1'-0"

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Jacobs | TITAN TECHNOLOGIES

4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

Donald J McCarthy

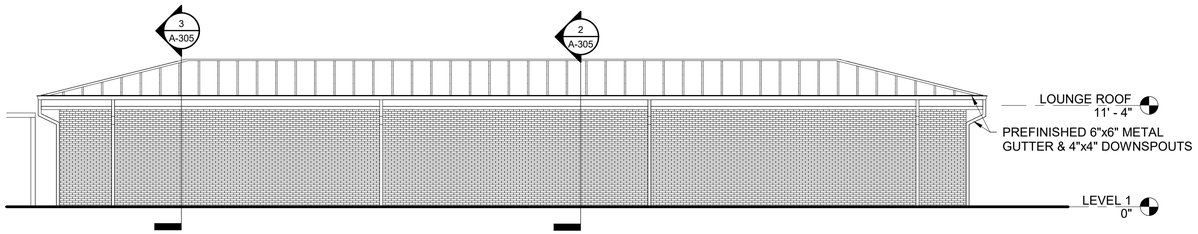
Project No.: 83X98735

Drawing Title:
ENLARGED EXTERIOR ELEVATIONS

Date: 10 October 2024

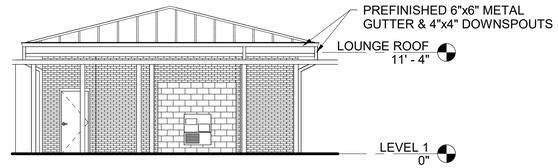
Designed By: Designer
Drawn By: Author
Checked By: Checker

Drawing No.: A-203



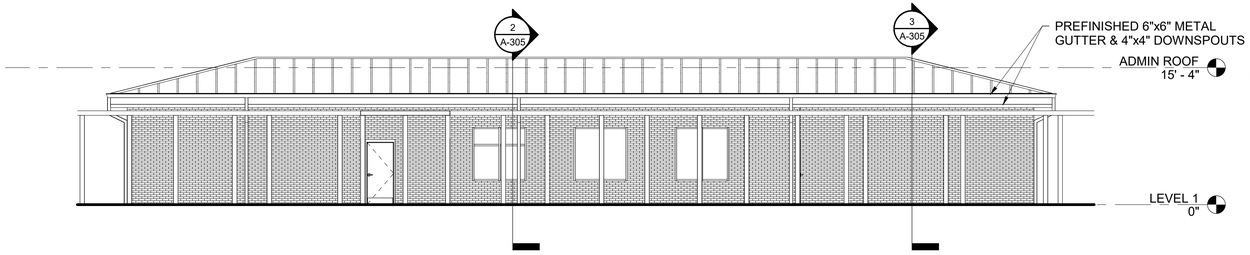
1 A-204 TEACHER LOUNGE - RESTROOM NORTH ELEVATION

1/8" = 1'-0"



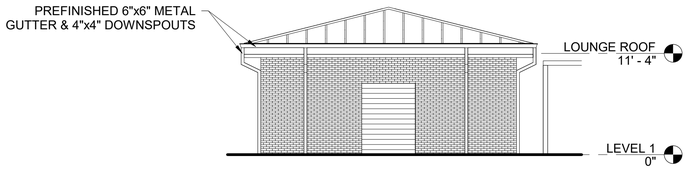
2 A-204 TEACHER LOUNGE - RESTROOM EAST ELEVATION

1/8" = 1'-0"



3 A-204 TEACHER LOUNGE - RESTROOM SOUTH ELEVATION

1/8" = 1'-0"



4 A-204 TEACHER LOUNGE - RESTROOM WEST ELEVATION

1/8" = 1'-0"

0" 4' - 0" 8' - 0" 16' - 0"

SCALE:1/8" = 1'-0"

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

Project No.: 83X98735

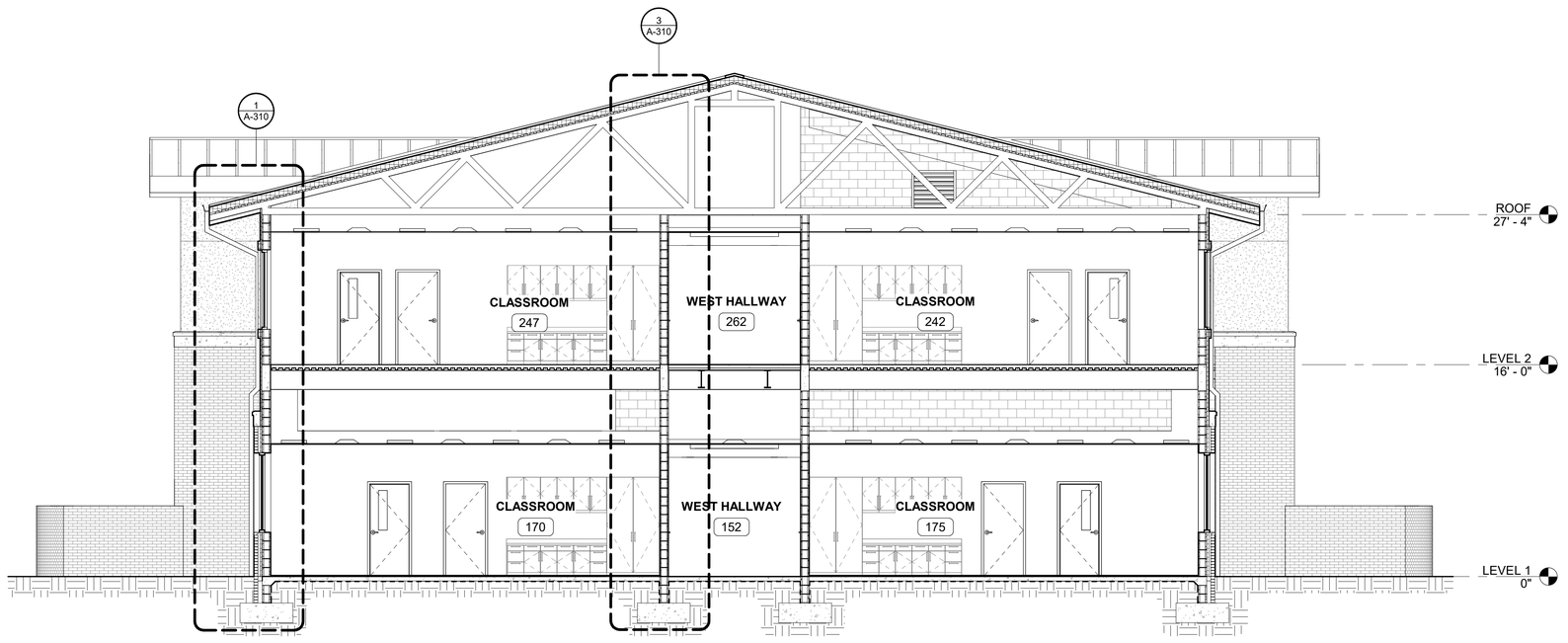
Drawing Title:

EXTERIOR ELEVATIONS - TEACHER LOUNGE AND RESTROOM

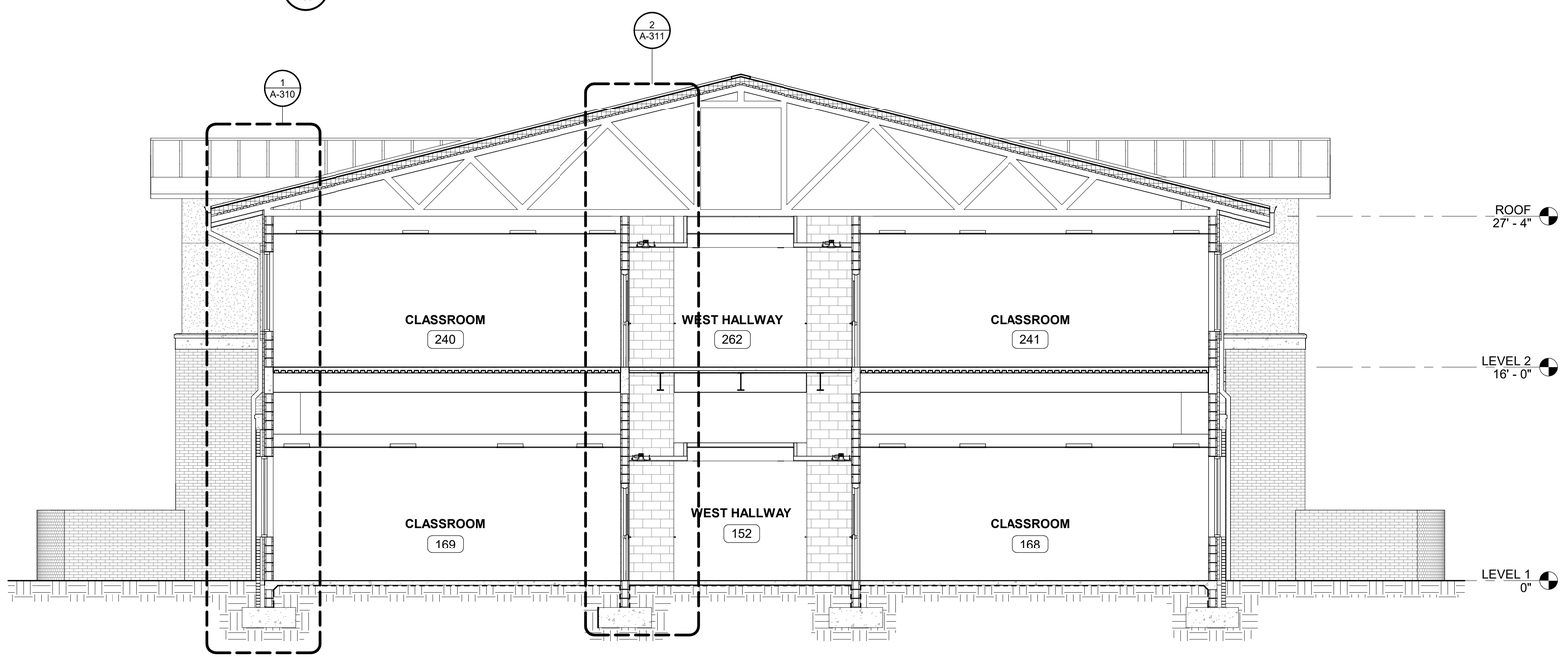
Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-204



1 A-301 **BUILDING SECTION**
3/16" = 1'-0"



3 A-301 **BUILDING SECTION**
3/16" = 1'-0"

0" 2' - 8" 5' - 4" 10' - 8"
SCALE:3/16" = 1'-0"

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Florida Lic. No. C001942

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DESTIN ELEMENTARY SCHOOL
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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

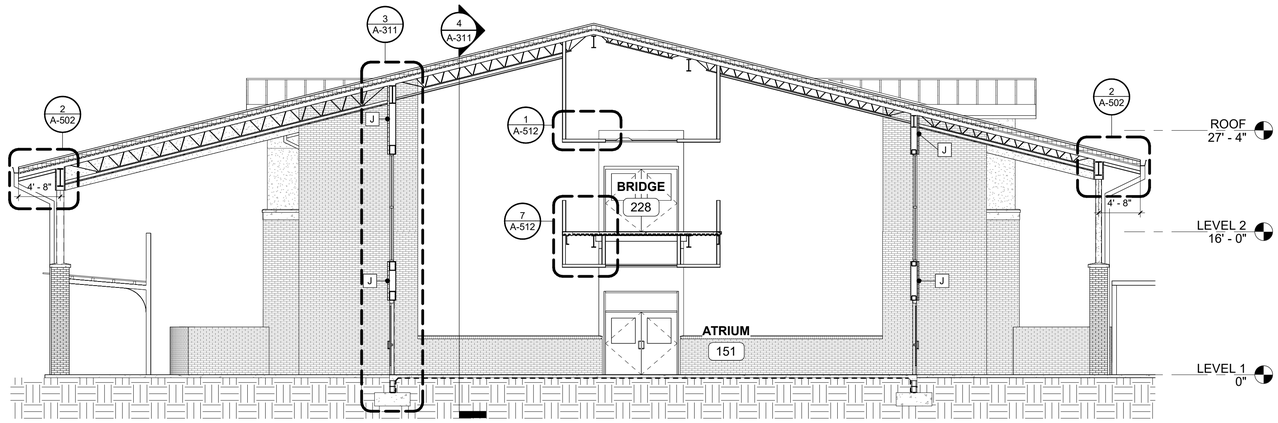
Project No.: 83X98735

Drawing Title:
BUILDING SECTIONS

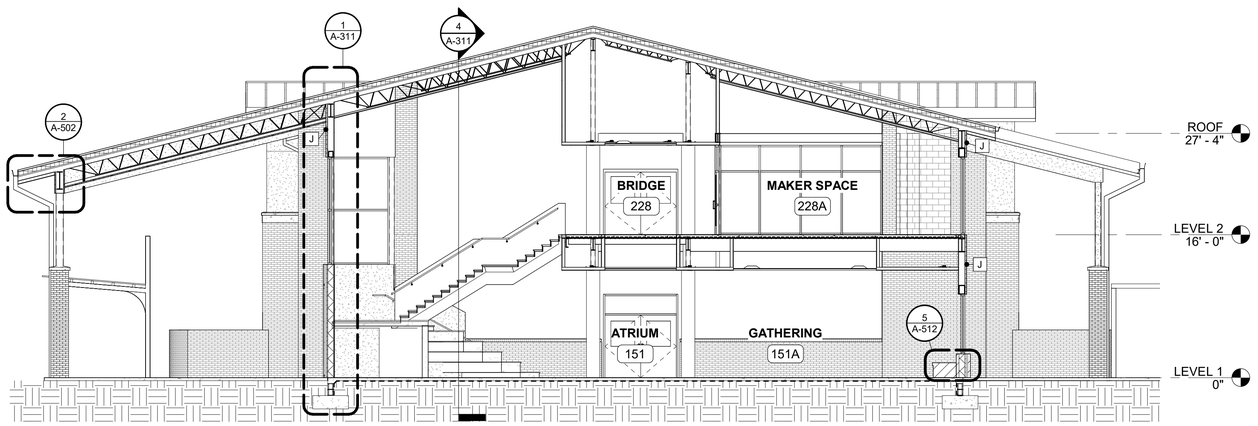
Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-301



1 A-302 BUILDING SECTION
1/8" = 1'-0"



2 A-302 BUILDING SECTION
1/8" = 1'-0"

0" 4' - 0" 8' - 0" 16' - 0"
SCALE:1/8" = 1'-0"

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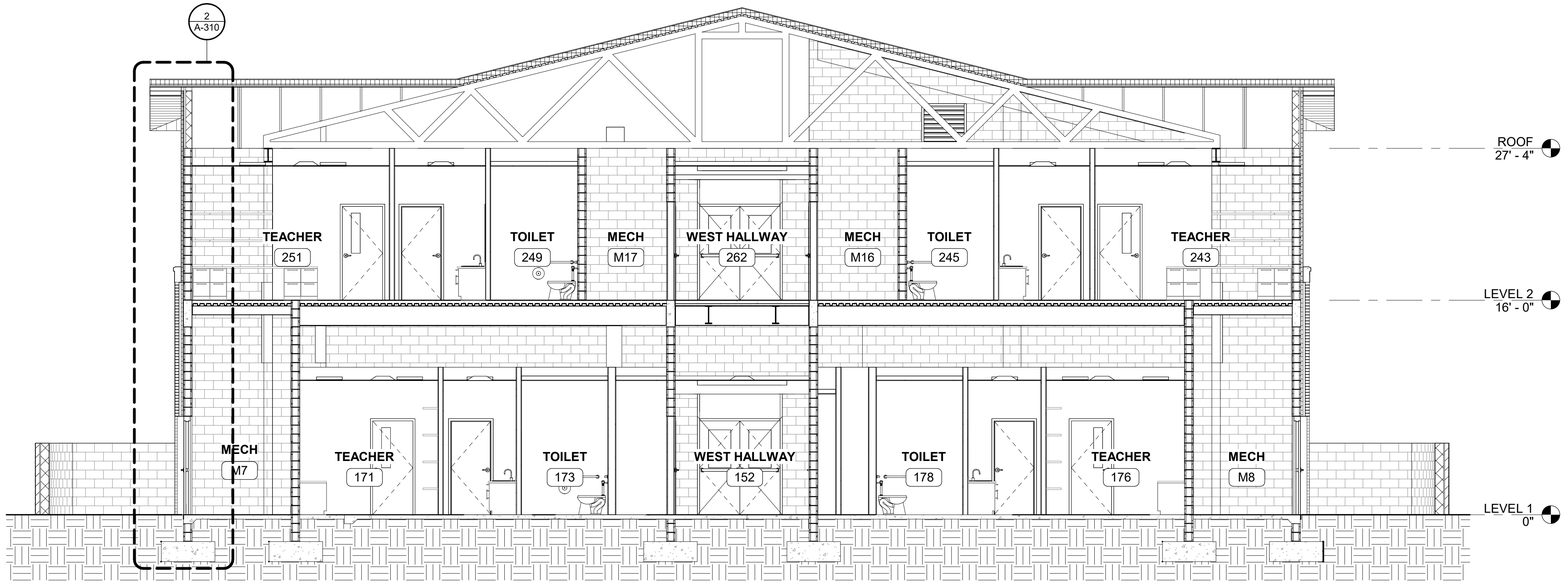
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

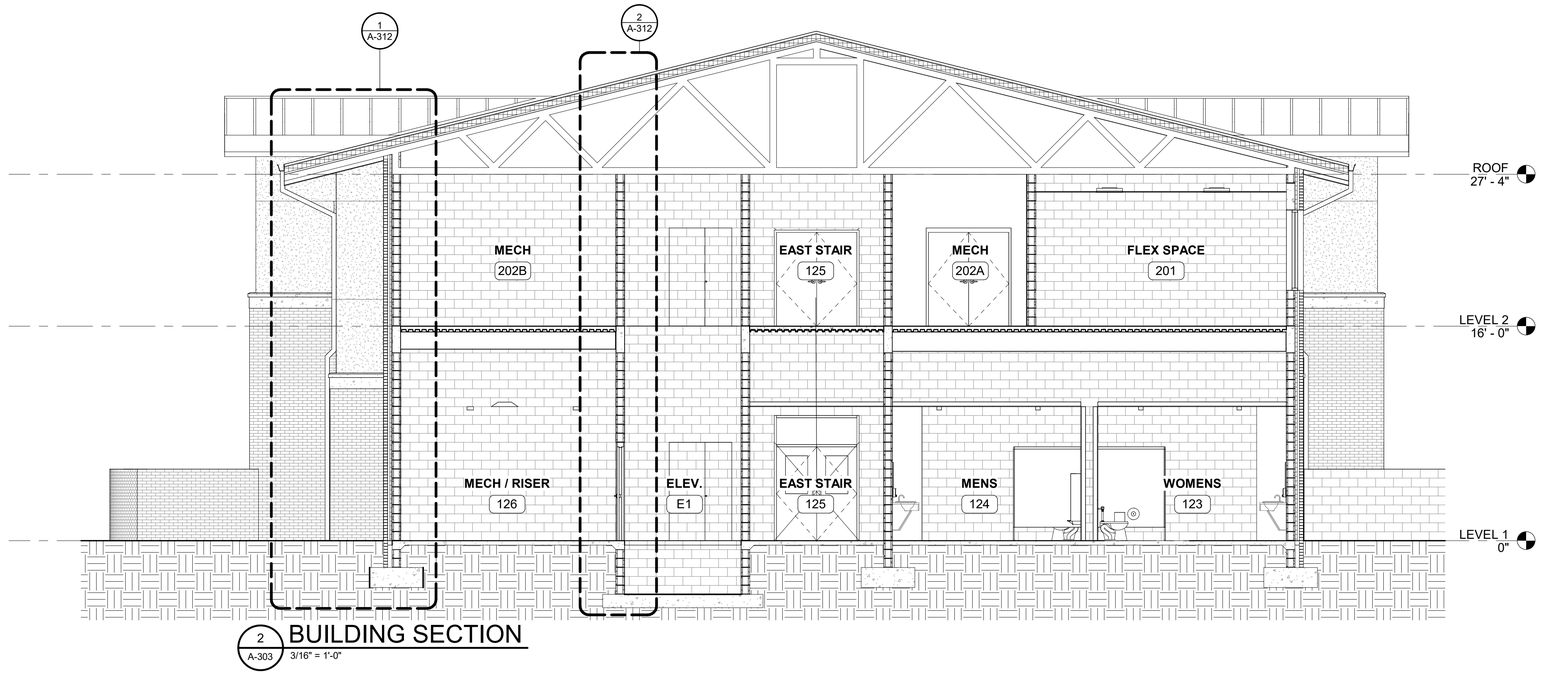
Seal:
STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

Project No.: 83X98735
Drawing Title:
BUILDING SECTIONS

Date: 10 October 2024
Designed By: RH
Drawn By: KW
Checked By: RH
Drawing No.: A-302



1 A-303 BUILDING SECTION
3/16" = 1'-0"



2 A-303 BUILDING SECTION
3/16" = 1'-0"

0" 2' - 8" 5' - 4" 10' - 8"
SCALE:3/16" = 1'-0"

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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

Project No.: 83X98735

Drawing Title:
BUILDING SECTIONS

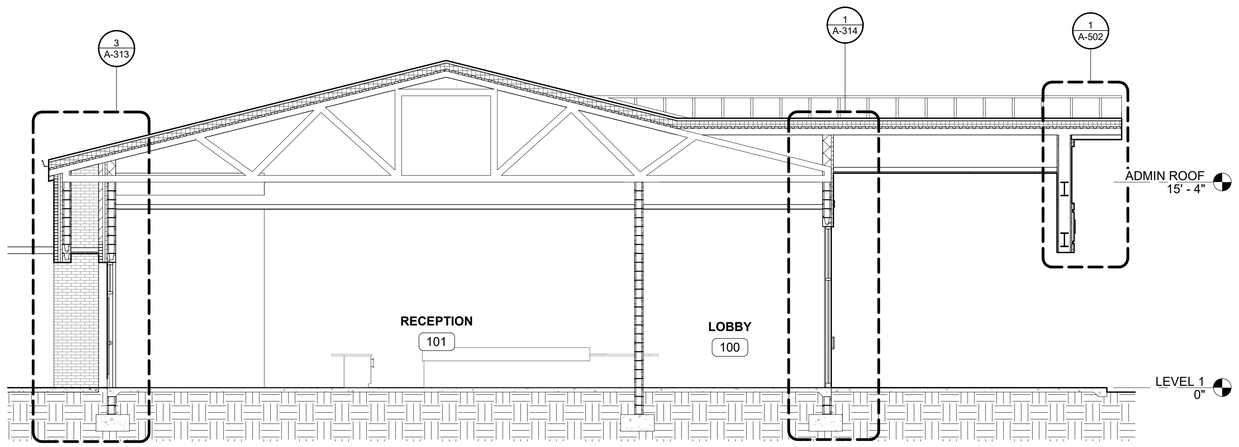
Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-303



1 A-304 BUILDING SECTION
3/16" = 1'-0"



2 A-304 BUILDING SECTION
3/16" = 1'-0"

0" 2' - 8" 5' - 4" 10' - 8"
SCALE:3/16" = 1'-0"

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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

Donald J McCarthy

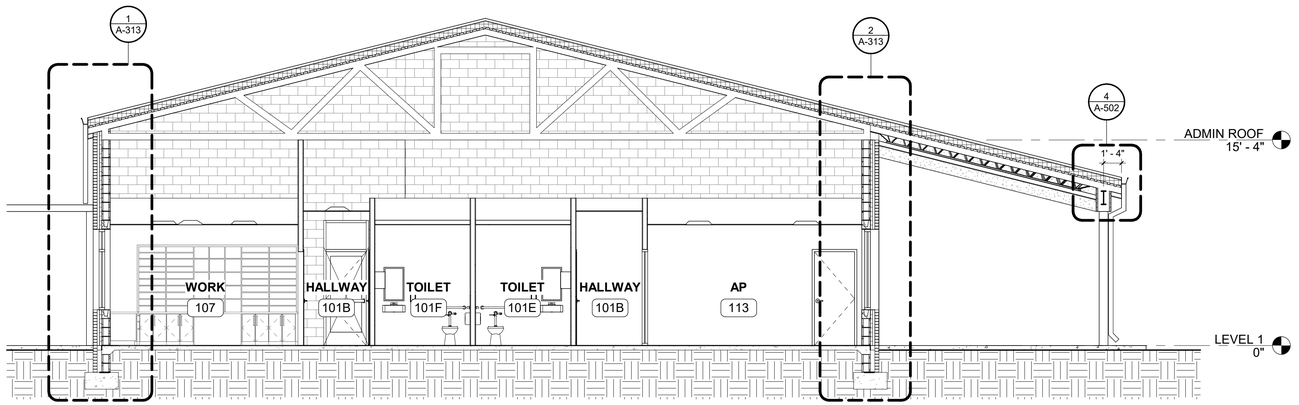
Project No.: 83X98735

Drawing Title:
BUILDING SECTIONS

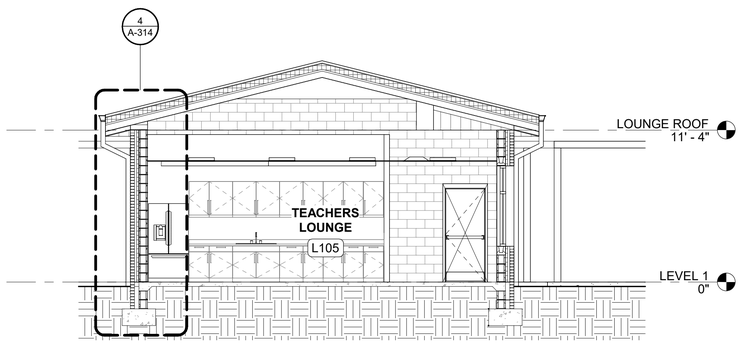
Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

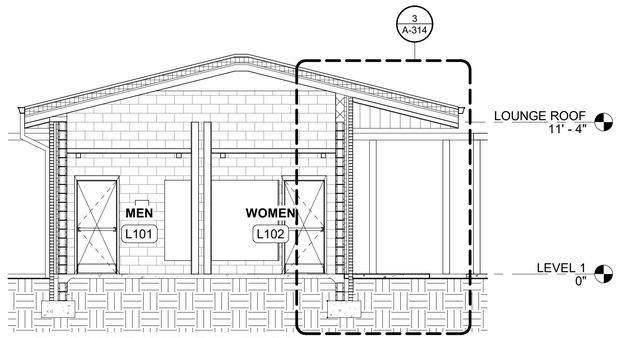
Drawing No.:
A-304



1 A-305 **BUILDING SECTION**
3/16" = 1'-0"



2 A-305 **BUILDING SECTION**
3/16" = 1'-0"



3 A-305 **BUILDING SECTION**
3/16" = 1'-0"

0" 2' - 0" 4' - 0" 8' - 0"
SCALE:1/4" = 1'-0"

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DESTIN ELEMENTARY SCHOOL
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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

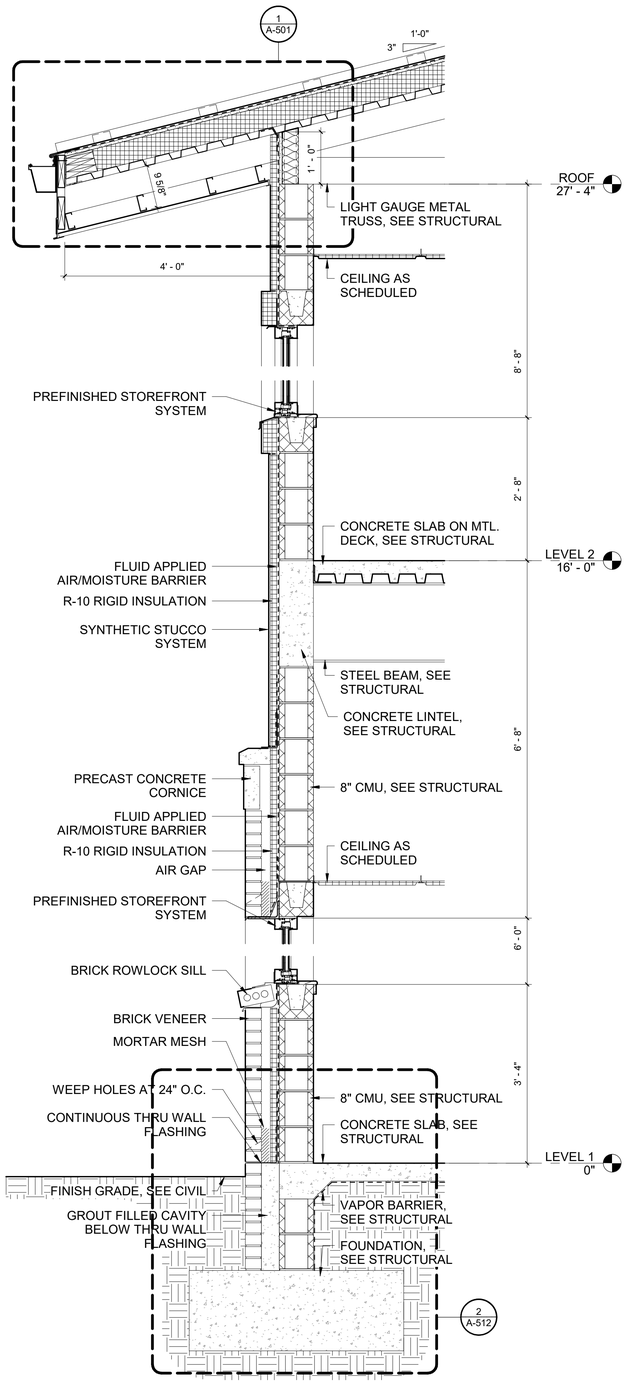
Project No.: 83X98735

Drawing Title:
BUILDING SECTIONS

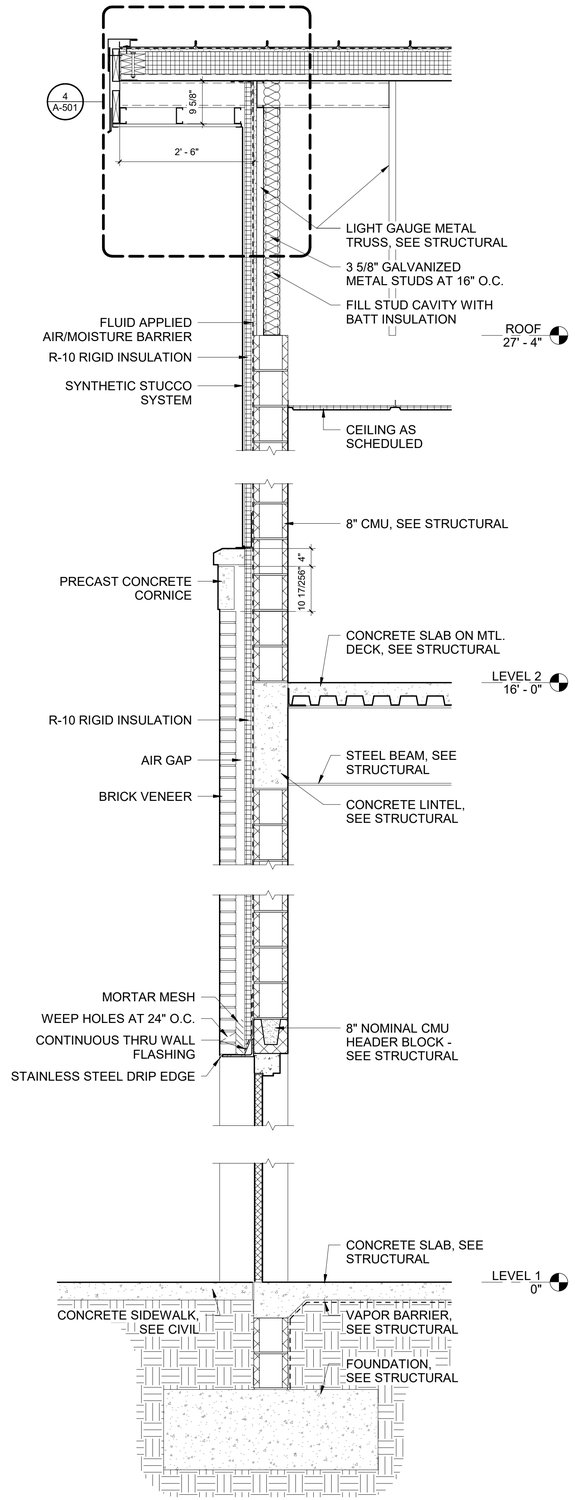
Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

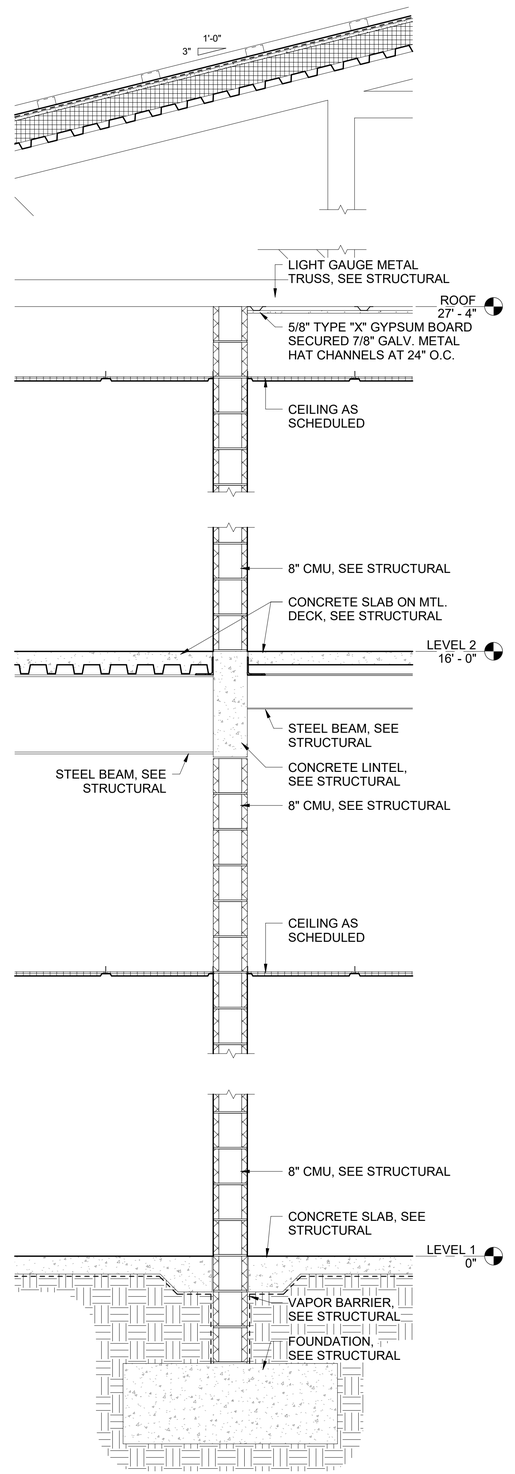
Drawing No.: A-305



1 A-310 **WALL SECTION** 3/4" = 1'-0"



2 A-310 **WALL SECTION** 3/4" = 1'-0"



3 A-310 **WALL SECTION** 3/4" = 1'-0"

0" 8" 1' - 4" 2' - 8"
SCALE:3/4" = 1'-0"

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Revision:

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DESTIN ELEMENTARY SCHOOL
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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

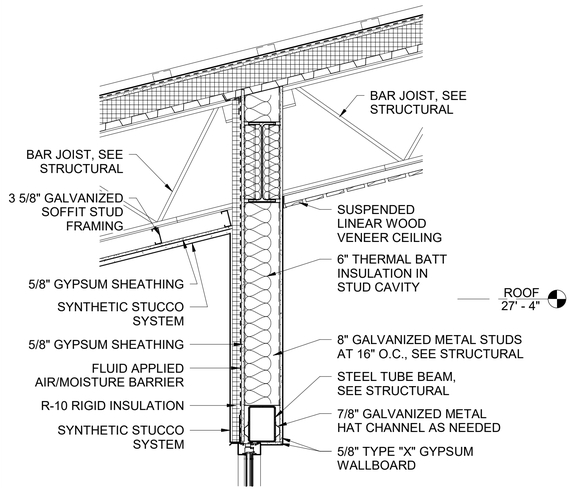
Project No.: 83X98735

Drawing Title:
WALL SECTIONS

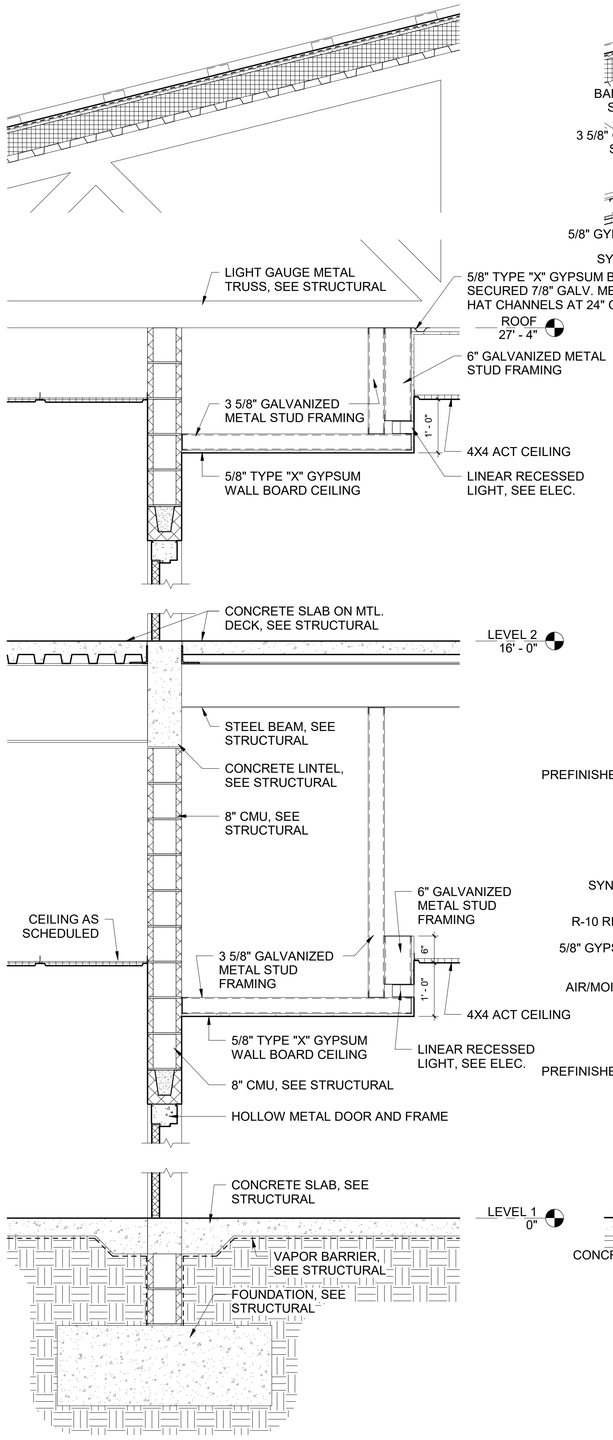
Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

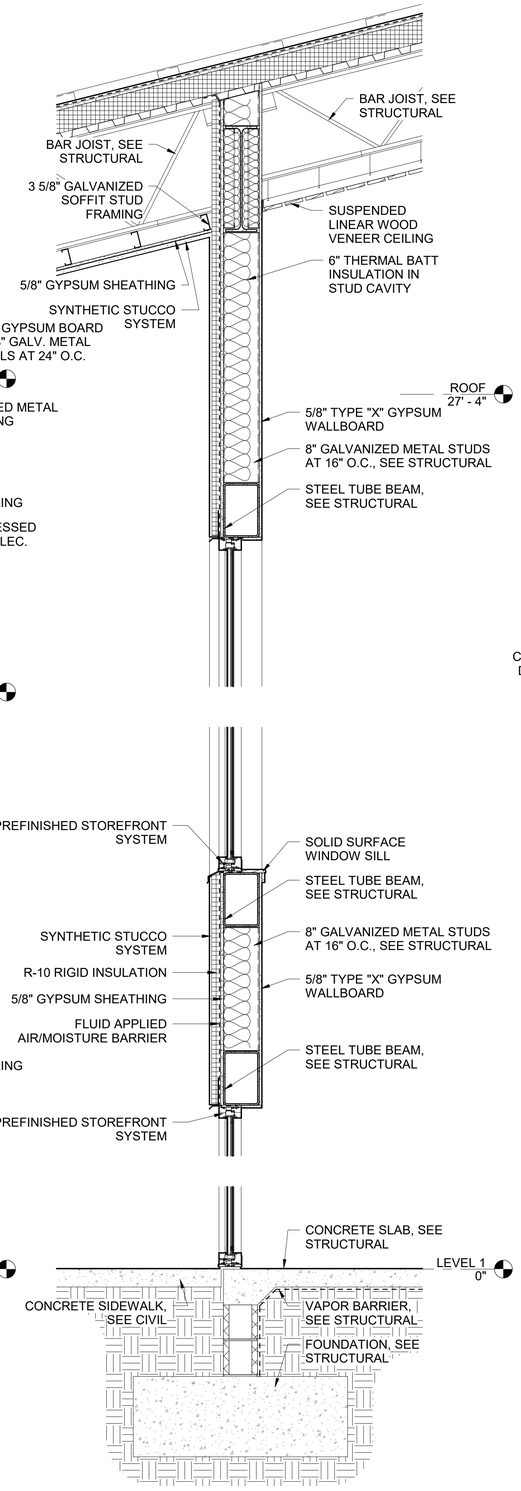
Drawing No.:
A-310



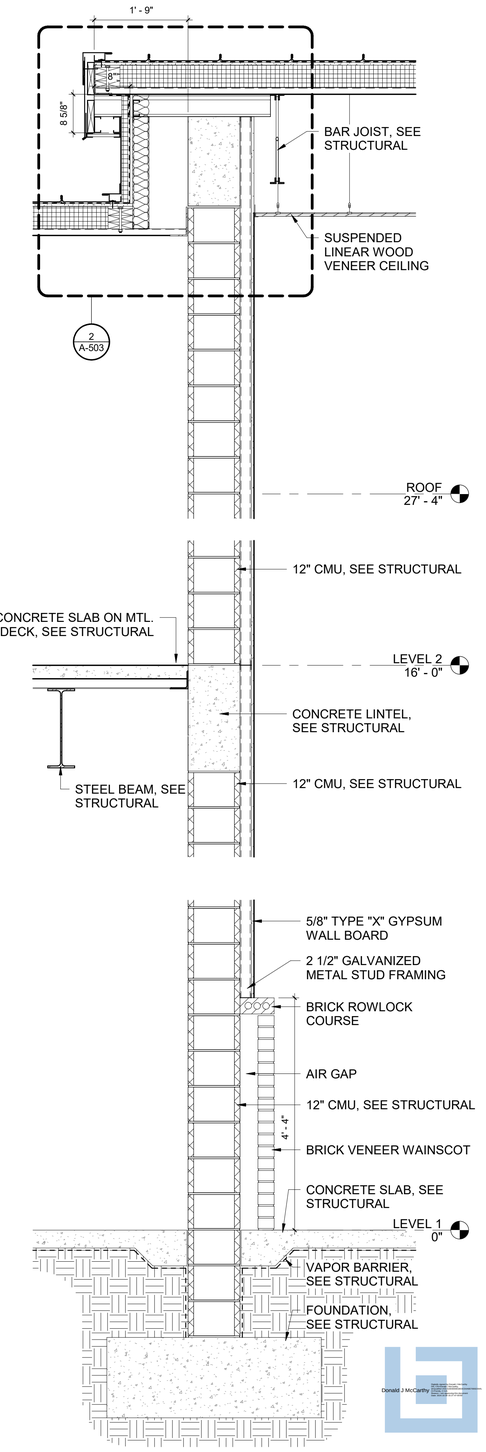
1 A-311 **WALL SECTION**
3/4" = 1'-0"



2 A-311 **WALL SECTION**
3/4" = 1'-0"



3 A-311 **WALL SECTION**
3/4" = 1'-0"



4 A-311 **WALL SECTION**
3/4" = 1'-0"

SCALE:3/4" = 1'-0"

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
STATE OF FLORIDA
DONALD ALLEN MCCARTHY
10/10/2024
NO. 9262
REGISTERED ARCHITECT

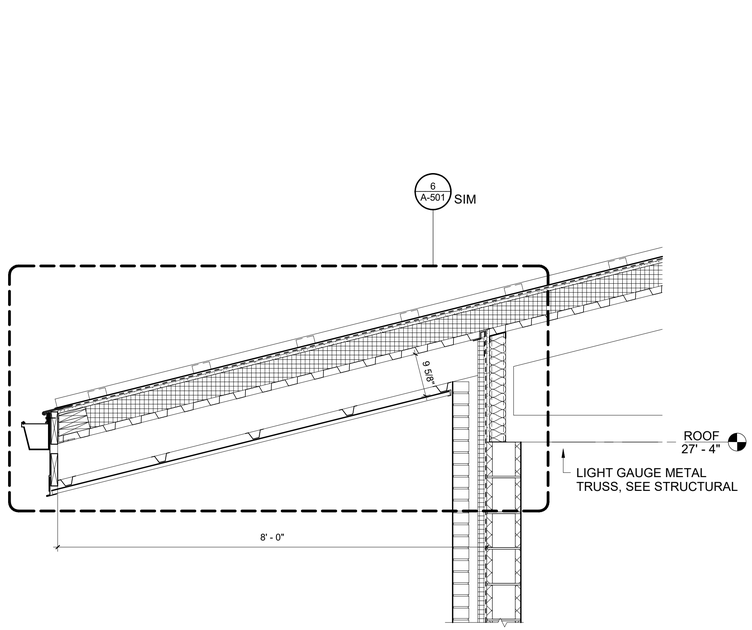
Project No.: 83X98735

Drawing Title:
WALL SECTIONS

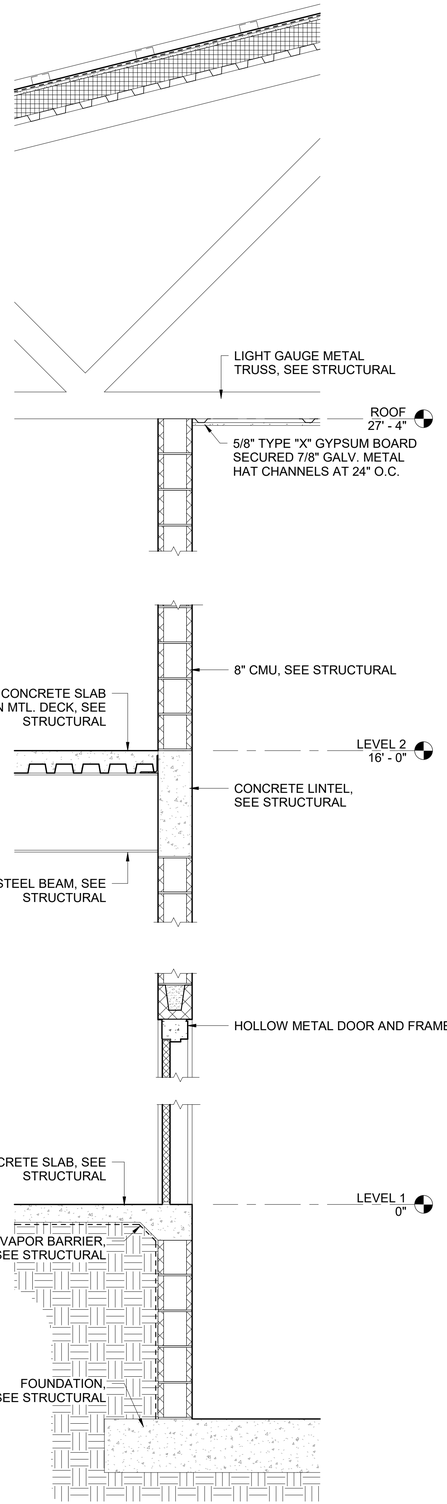
Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

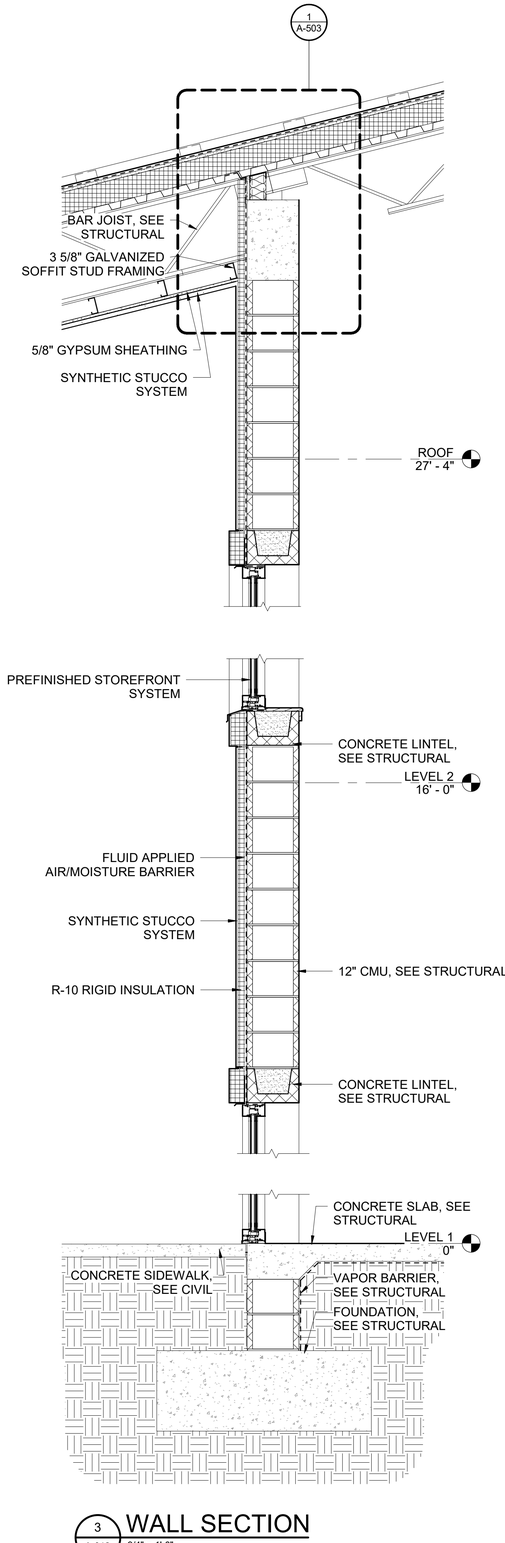
Drawing No.: A-311



1 A-312 WALL SECTION
3/4" = 1'-0"



2 A-312 WALL SECTION
3/4" = 1'-0"



3 A-312 WALL SECTION
3/4" = 1'-0"

0" 8" 1' - 4" 2' - 8"
SCALE:3/4" = 1'-0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
DONALD ALLEN MCCARTHY
10/15/2024
NO. 9262
REGISTERED ARCHITECT

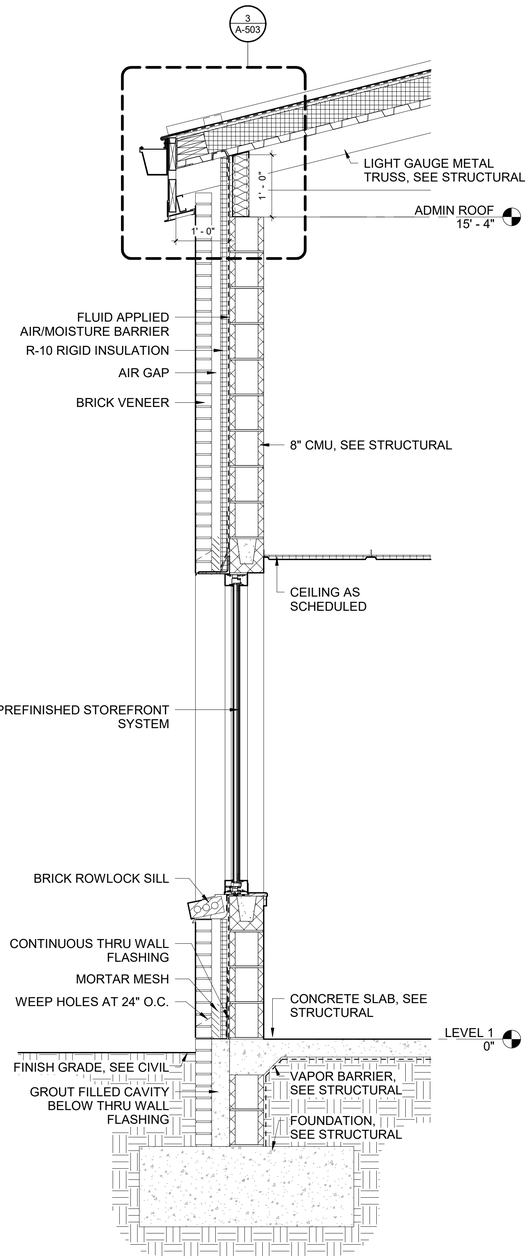
Project No.: 83X98735

Drawing Title:
WALL SECTIONS

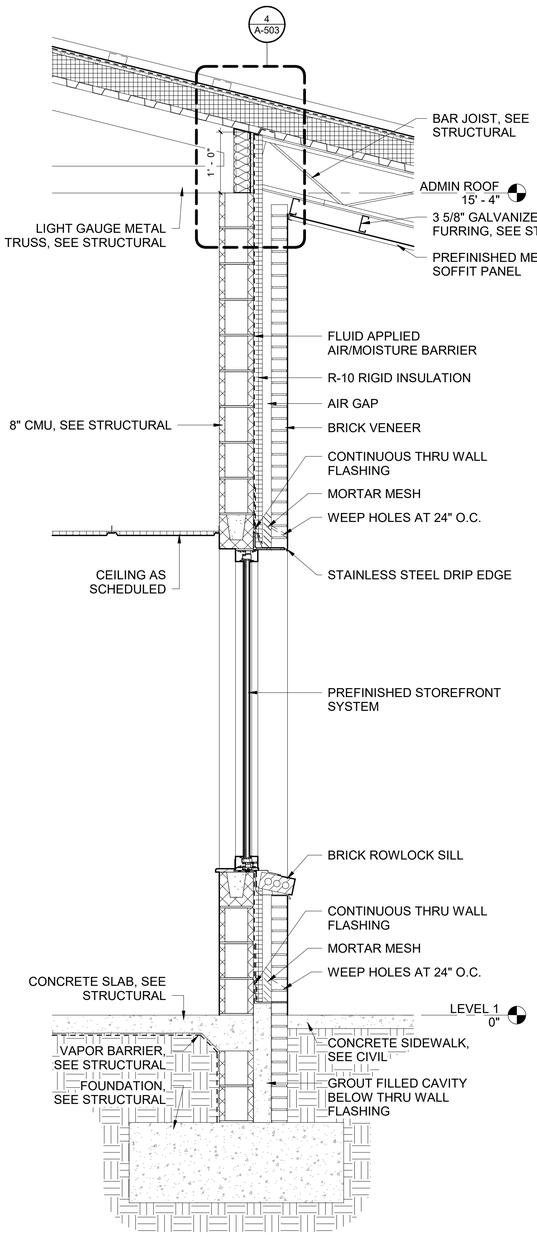
Date: 10 October 2024

Designed By: Designer
Drawn By: Author
Checked By: Checker

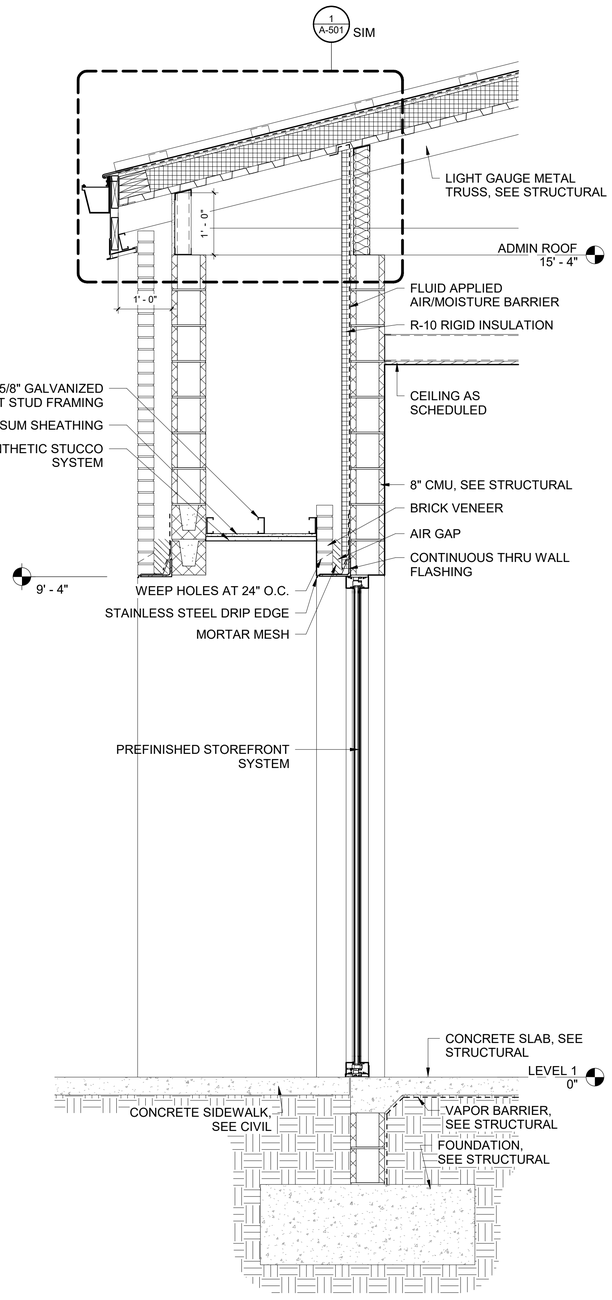
Drawing No.: A-312



1 A-313 WALL SECTION
3/4" = 1'-0"



2 A-313 WALL SECTION
3/4" = 1'-0"



3 A-313 WALL SECTION
3/4" = 1'-0"

0" 8" 1' - 4" 2' - 8"
SCALE:3/4" = 1'-0"

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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

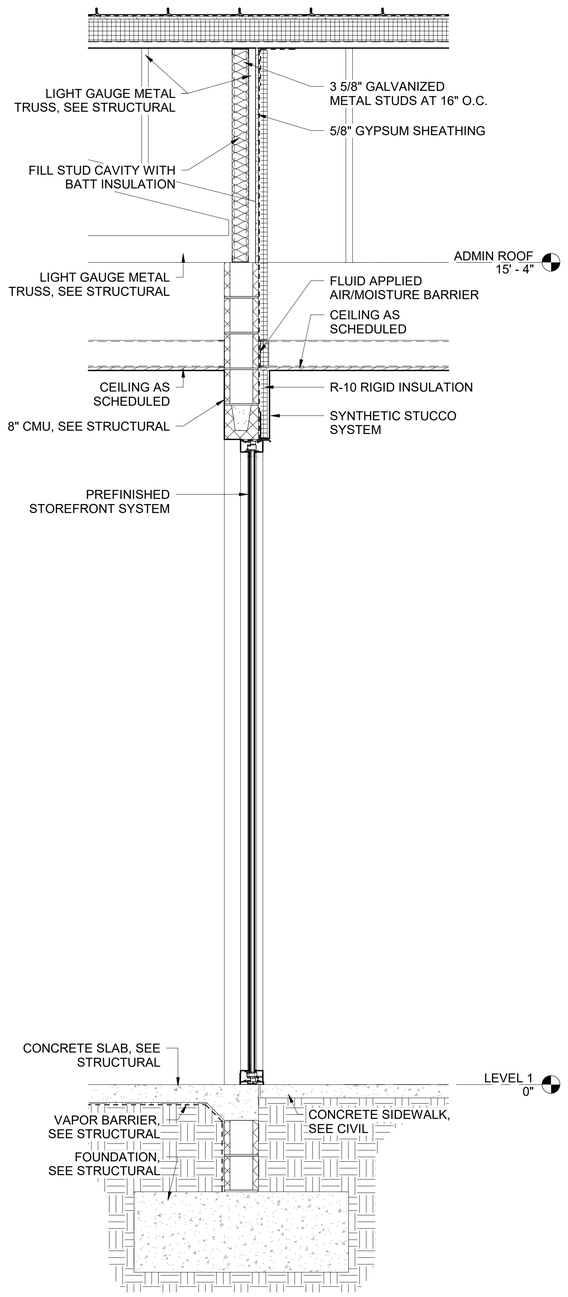
Project No.: 83X98735

Drawing Title:
WALL SECTIONS

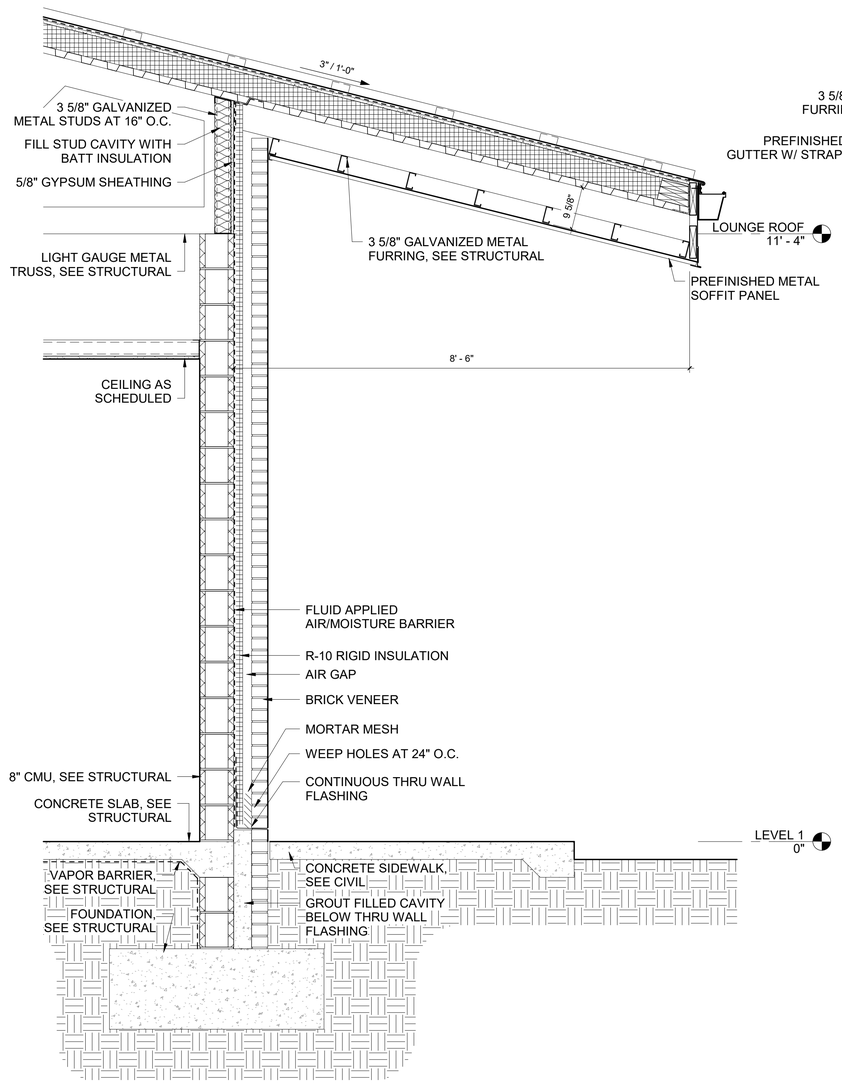
Date: 10 October 2024

Designed By: Designer
Drawn By: Author
Checked By: Checker

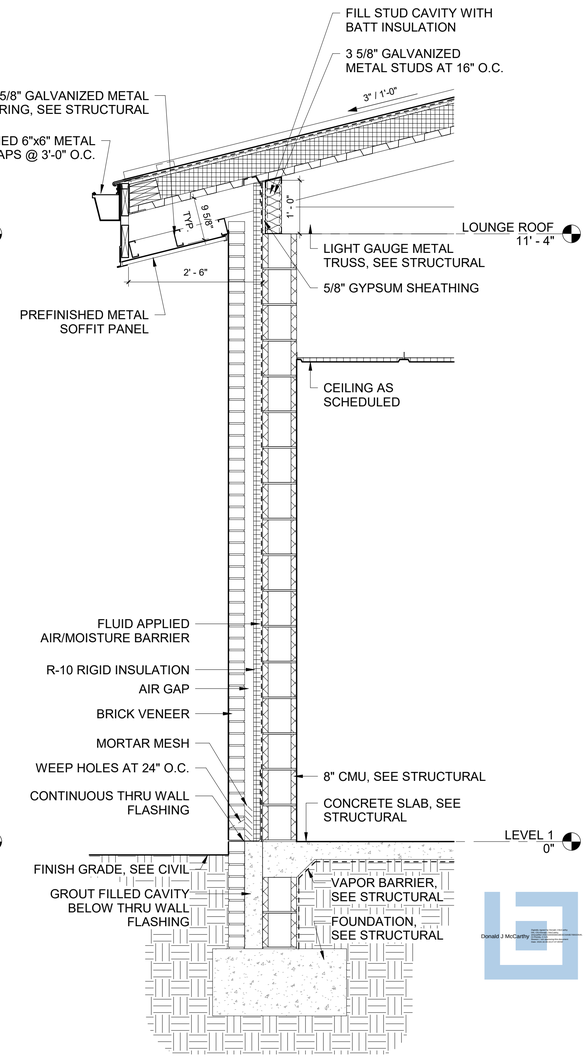
Drawing No.: A-313



1 A-314 **WALL SECTION**
3/4" = 1'-0"



3 A-314 **WALL SECTION**
3/4" = 1'-0"



4 A-314 **WALL SECTION**
3/4" = 1'-0"

0" 8" 1' - 4" 2' - 8"
SCALE:3/4" = 1'-0"

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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

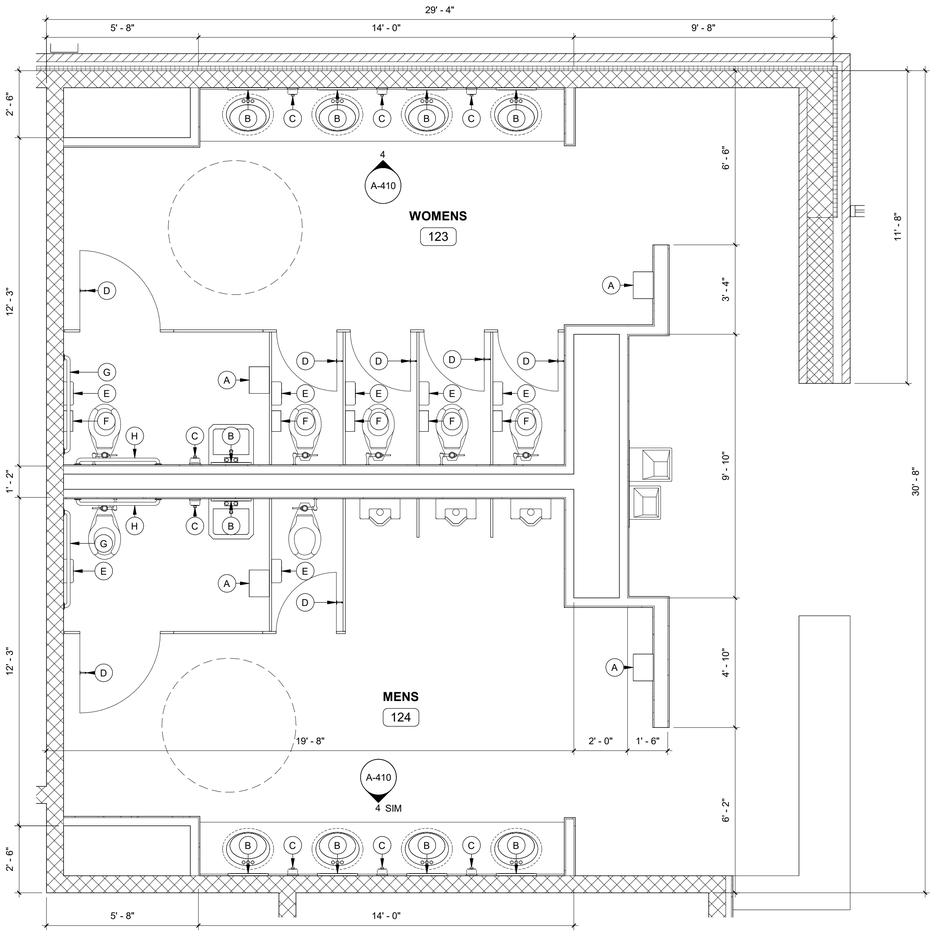
STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

Donald J McCarthy

Project No.: 83X98735

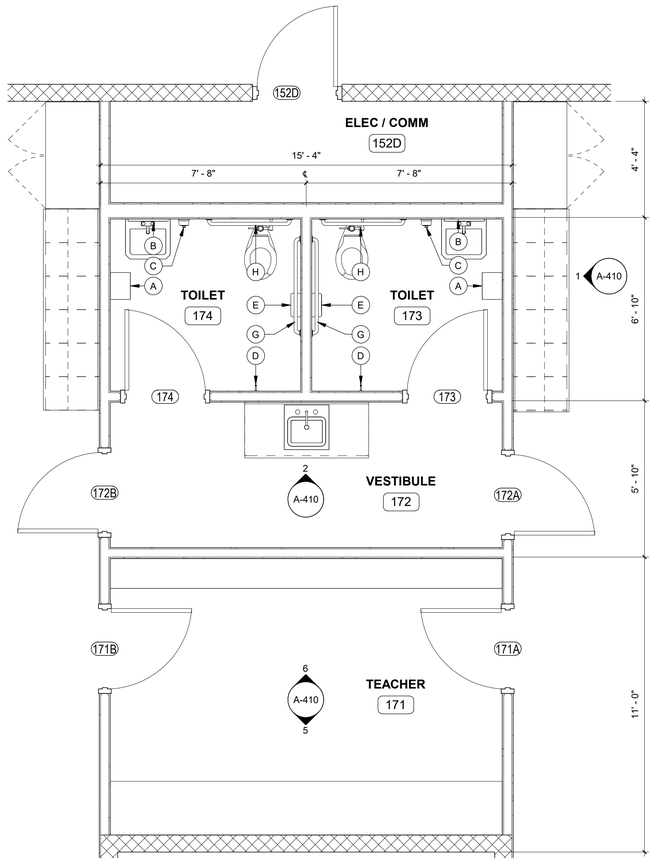
Drawing Title:
WALL SECTIONS

Date: 10 October 2024
Designed By: Designer
Drawn By: Author
Checked By: Checker
Drawing No.: A-314



2 A-401 ENLARGED FLOOR PLAN - PUBLIC RESTROOMS

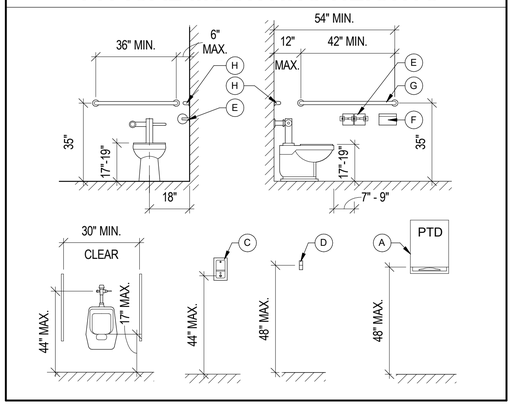
3/8" = 1'-0"



1 A-401 ENLARGED FLOOR PLAN - TYPICAL CLASSROOM ADMIN

3/8" = 1'-0"

TYPICAL MOUNTING HEIGHTS



ACCESSORY SCHEDULE

MARK	ITEM/DESCRIPTION	ABBREV.
A	WALL MOUNTED PAPER TOWEL DISPENSER	PTD
B	MIRROR (24" X 36")	MR
C	WALL MOUNTED SOAP DISPENSER	SD
D	WARDROBE HOOK	WH
E	JUMBO TOILET TISSUE DISPENSER	JTTD
F	SANITARY NAPKIN DISPOSER	SND
G	GRAB BAR (42")	GB1
H	GRAB BAR (36")	GB2
K	ADA SHOWER SEAT	FS
L	SHOWER CURTAIN AND 36" ROD	SC1

0" 1' - 4" 2' - 8" 5' - 4"

SCALE:3/8" = 1'-0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

Jacobs | TITAN TECHNOLOGIES

4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY • SCHOOL DISTRICT •

Seal:



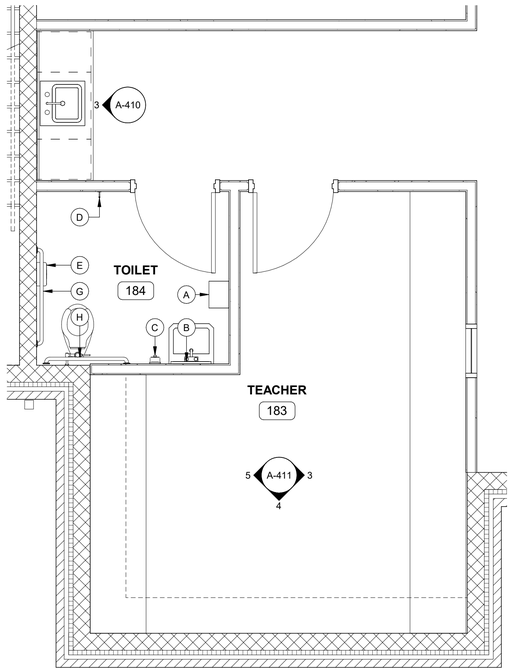
Project No.: 83X98735

Drawing Title:
ENLARGED PLANS

Date: 10 October 2024

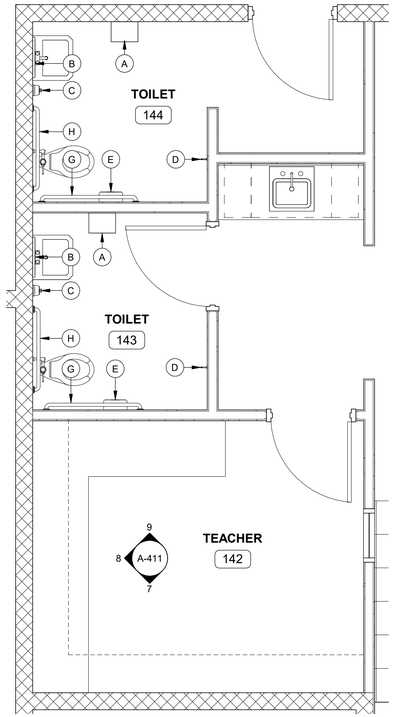
Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.:
A-401



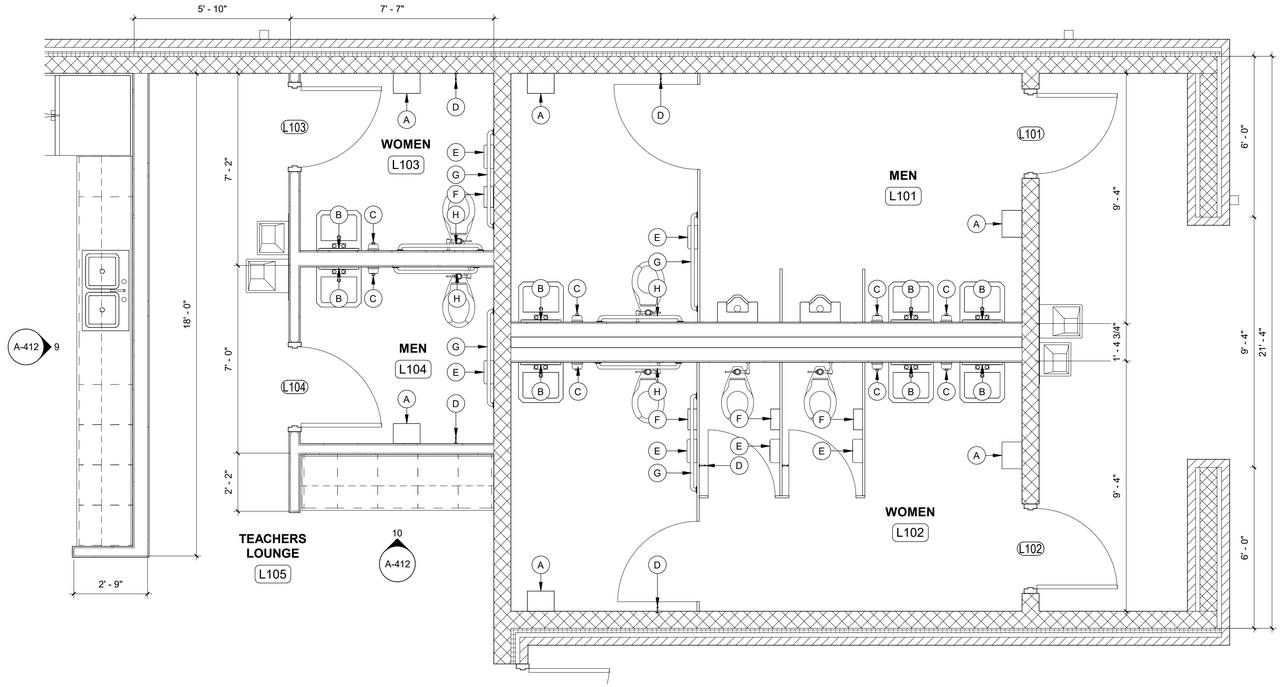
ENLARGED FLOOR PLAN - CLASSROOM 182 ADMIN

1 / A-402 — 3/8" = 1'-0"



ENLARGED FLOOR PLAN - CLASSROOM Y ADMIN

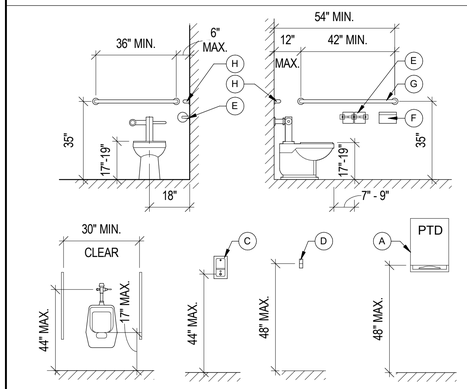
3 / A-402 — 3/8" = 1'-0"



ENLARGED FLOOR PLAN - TEACHERS LOUNGE

4 / A-402 — 3/8" = 1'-0"

TYPICAL MOUNTING HEIGHTS



ACCESSORY SCHEDULE

MARK	ITEM/DESCRIPTION	ABBREV.
A	WALL MOUNTED PAPER TOWEL DISPENSER	PTD
B	MIRROR (24" X 36")	MR
C	WALL MOUNTED SOAP DISPENSER	SD
D	WARDROBE HOOK	WH
E	JUMBO TOILET TISSUE DISPENSER	JTTD
F	SANITARY NAPKIN DISPOSER	SND
G	GRAB BAR (42")	GB1
H	GRAB BAR (36")	GB2
K	ADA SHOWER SEAT	FS
L	SHOWER CURTAIN AND 36" ROD	SC1

0" 1' - 4" 2' - 8" 5' - 4"

SCALE:3/8" = 1'-0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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DESTIN ELEMENTARY SCHOOL
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Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA — ROBERT ALLEN HEFFERNAN — 10/10/2024 — NO. 9262 — REGISTERED ARCHITECT

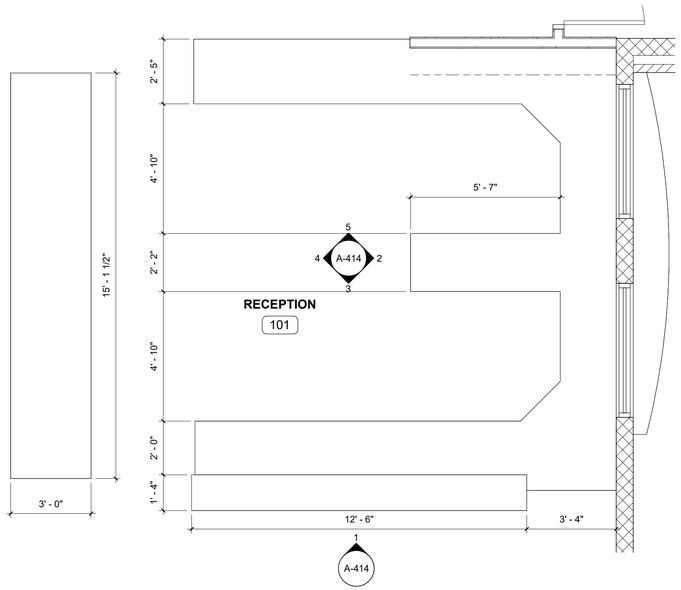
Project No.: 83X98735

Drawing Title:
ENLARGED PLANS

Date: 10 October 2024

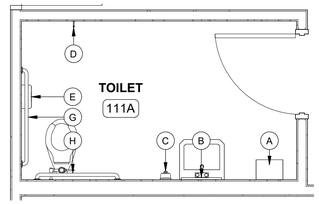
Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-402



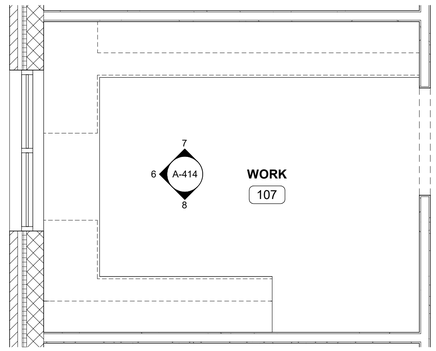
ENLARGED FLOOR PLAN - RECEPTION

1 A-403 — 3/8" = 1'-0"



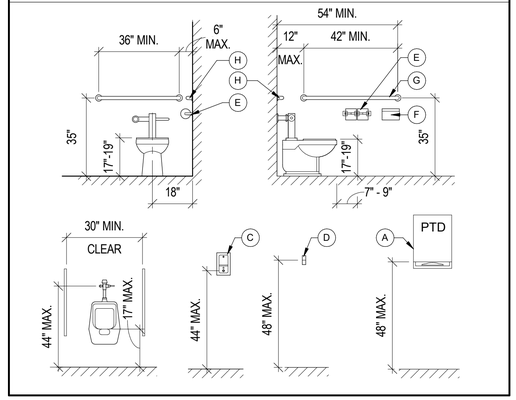
ENLARGED FLOOR PLAN - PRINCIPLE RESTROOM

5 A-403 — 3/8" = 1'-0"



ENLARGED FLOOR PLAN - WORK 107

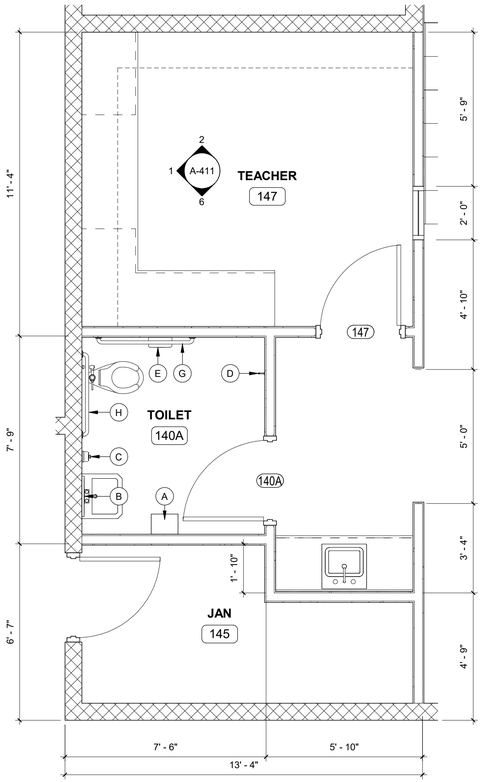
6 A-403 — 3/8" = 1'-0"



TYPICAL MOUNTING HEIGHTS

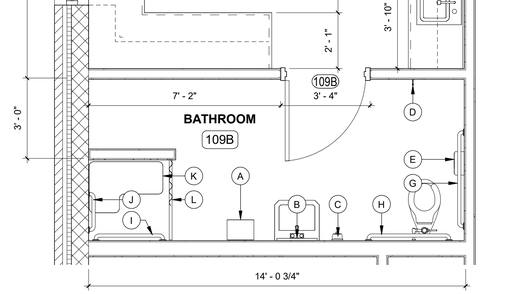
ACCESSORY SCHEDULE

MARK	ITEM/DESCRIPTION	ABBREV.
A	WALL MOUNTED PAPER TOWEL DISPENSER	PTD
B	MIRROR (24" X 36")	MR
C	WALL MOUNTED SOAP DISPENSER	SD
D	WARDROBE HOOK	WH
E	JUMBO TOILET TISSUE DISPENSER	JTTD
F	SANITARY NAPKIN DISPOSER	SND
G	GRAB BAR (42")	GB1
H	GRAB BAR (36")	GB2
K	ADA SHOWER SEAT	FS
L	SHOWER CURTAIN AND 36" ROD	SC1



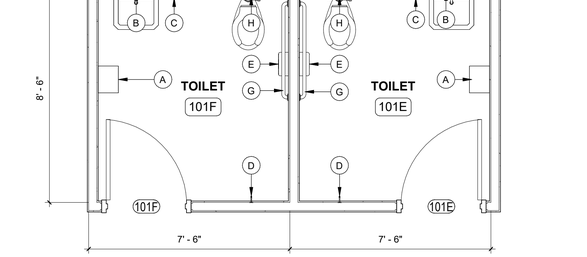
ENLARGED FLOOR PLAN - CLASSROOM X ADMIN

2 A-403 — 3/8" = 1'-0"



ENLARGED FLOOR PLAN - CLINIC

4 A-403 — 3/8" = 1'-0"



ENLARGED FLOOR PLAN - ADMIN

3 A-403 — 3/8" = 1'-0"

0" 1' - 4" 2' - 8" 5' - 4"
SCALE:3/8" = 1'-0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

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Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
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Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

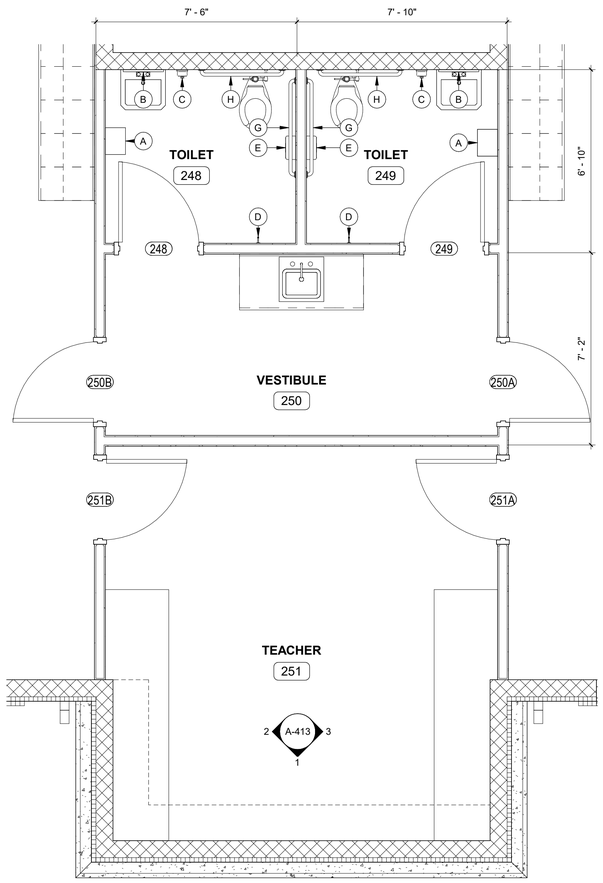
Project No.: 83X98735

Drawing Title:
ENLARGED PLANS

Date: 10 October 2024

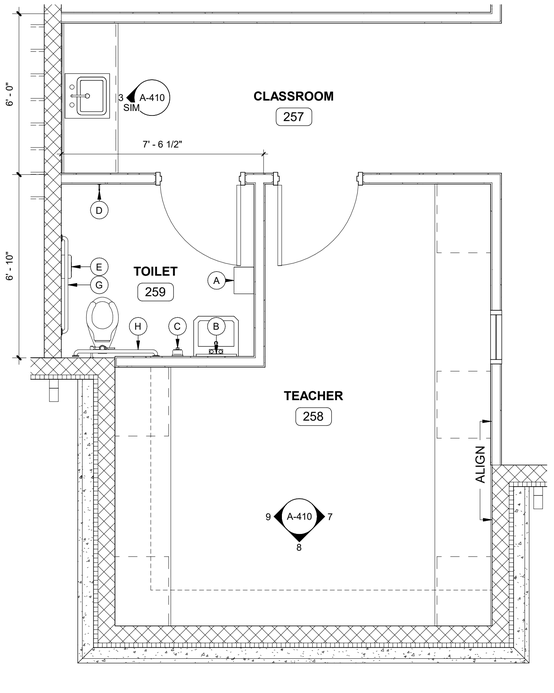
Designed By: Designer
Drawn By: Author
Checked By: Checker

Drawing No.: A-403



1 A-404 ENLARGED FLOOR PLAN - TYPICAL CLASSROOM ADMIN 2F

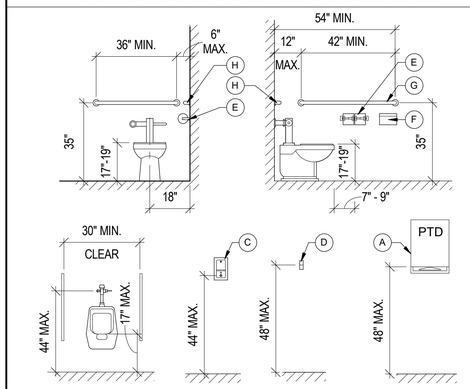
3/8" = 1'-0"



2 A-404 ENLARGED FLOOR PLAN - CLASSROOM 258

3/8" = 1'-0"

TYPICAL MOUNTING HEIGHTS



ACCESSORY SCHEDULE

MARK	ITEM/DESCRIPTION	ABBREV.
A	WALL MOUNTED PAPER TOWEL DISPENSER	PTD
B	MIRROR (24" X 36")	MR
C	WALL MOUNTED SOAP DISPENSER	SD
D	WARDROBE HOOK	WH
E	JUMBO TOILET TISSUE DISPENSER	JTTD
F	SANITARY NAPKIN DISPOSER	SND
G	GRAB BAR (42")	GB1
H	GRAB BAR (36")	GB2
K	ADA SHOWER SEAT	FS
L	SHOWER CURTAIN AND 36" ROD	SC1

0" 1' - 4" 2' - 8" 5' - 4"

SCALE:3/8" = 1'-0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
REGISTERED ARCHITECT
10/10/2024
NO. 9262

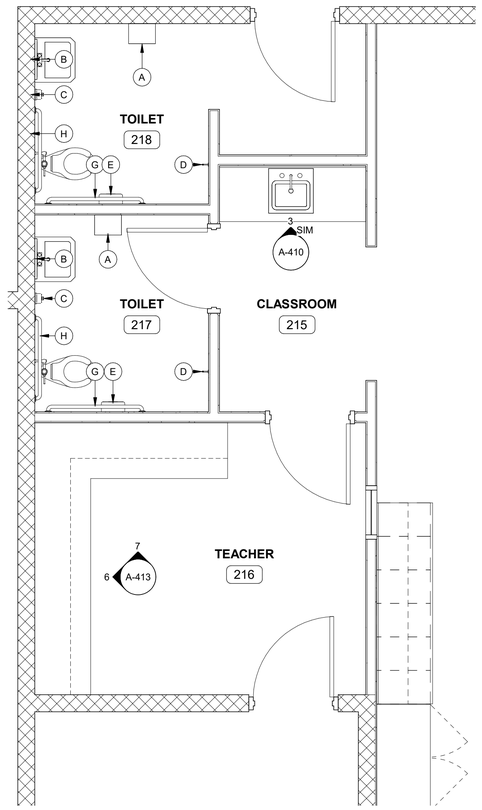
Project No.: 83X98735

Drawing Title:
ENLARGED PLANS

Date: 10 October 2024

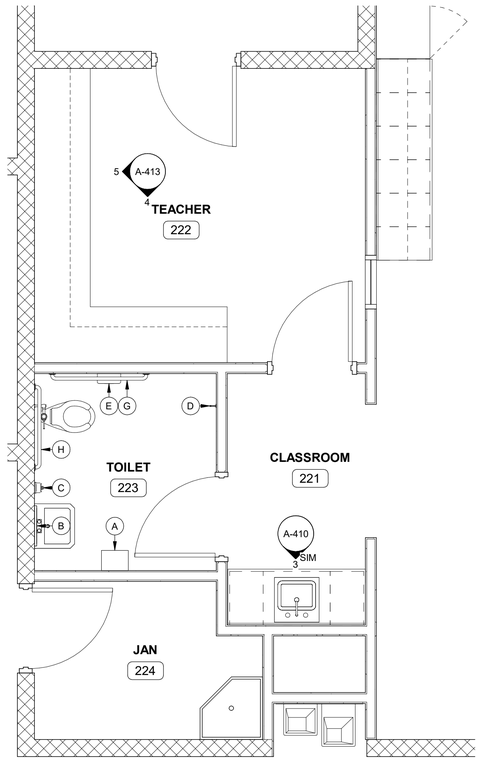
Designed By: Designer
Drawn By: Author
Checked By: Checker

Drawing No.: A-404



1 A-405 ENLARGED FLOOR PLAN - CLASSROOM 215

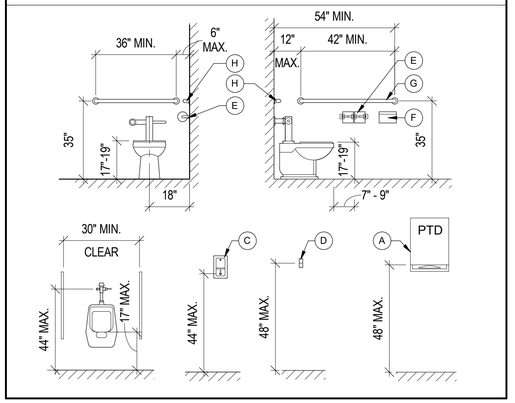
3/8" = 1'-0"



2 A-405 ENLARGED FLOOR PLAN - CLASSROOM 221

3/8" = 1'-0"

TYPICAL MOUNTING HEIGHTS



ACCESSORY SCHEDULE

MARK	ITEM/DESCRIPTION	ABBREV.
A	WALL MOUNTED PAPER TOWEL DISPENSER	PTD
B	MIRROR (24" X 36")	MR
C	WALL MOUNTED SOAP DISPENSER	SD
D	WARDROBE HOOK	WH
E	JUMBO TOILET TISSUE DISPENSER	JTTD
F	SANITARY NAPKIN DISPOSER	SND
G	GRAB BAR (42")	GB1
H	GRAB BAR (36")	GB2
K	ADA SHOWER SEAT	FS
L	SHOWER CURTAIN AND 36" ROD	SC1

0" 1' - 0" 2' - 0" 4' - 0"

SCALE:1/2" = 1'-0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

Jacobs | TITAN TECHNOLOGIES

4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

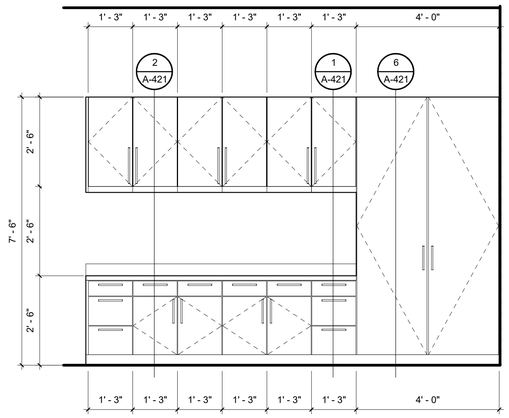
Project No.: 83X98735

Drawing Title:
ENLARGED PLANS

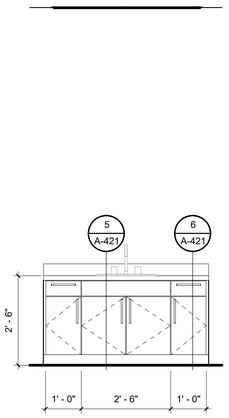
Date: 10 October 2024

Designed By: Designer
Drawn By: Author
Checked By: Checker

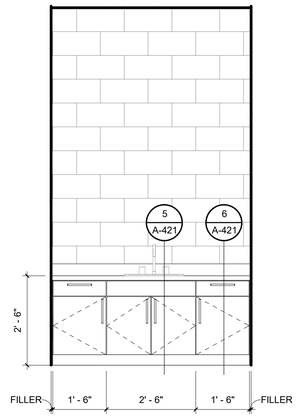
Drawing No.: A-405



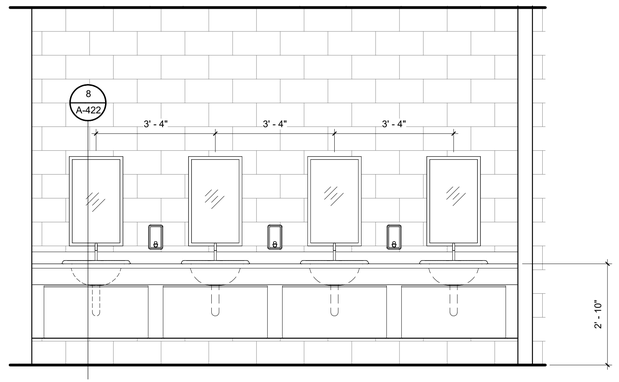
1 A-410 — TYPICAL CLASSROOM CASEWORK ELEVATION
1/2" = 1'-0"



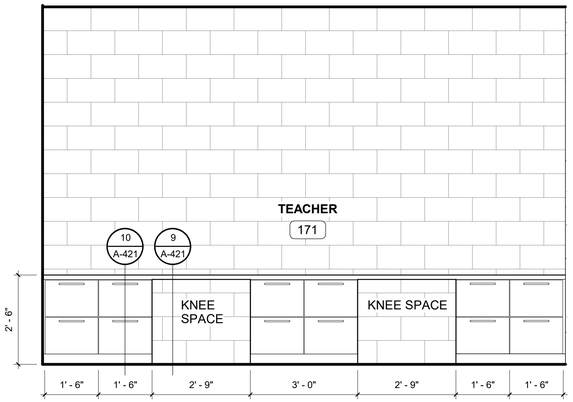
2 A-410 — TYPICAL VESTIBULE CASEWORK ELEVATION
1/2" = 1'-0"



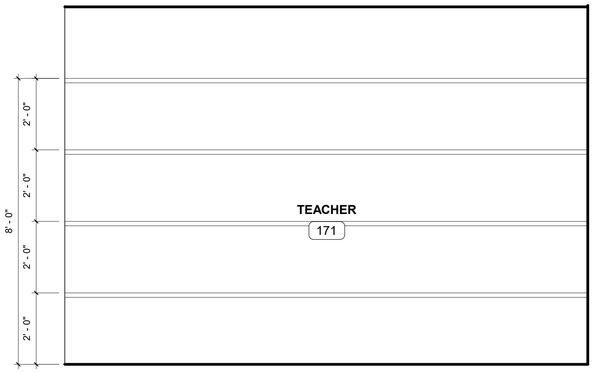
3 A-410 — CASEWORK ELEVATION
1/2" = 1'-0"



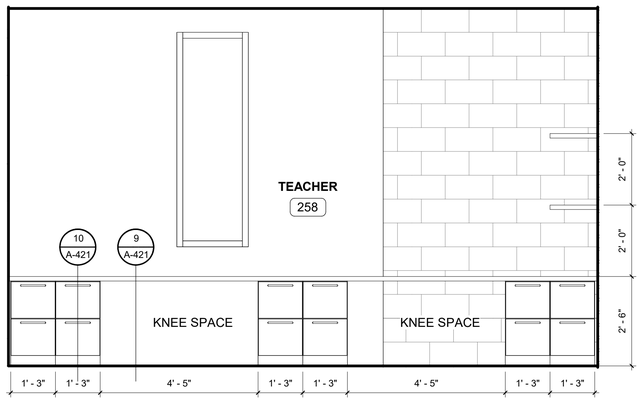
4 A-410 — CASEWORK ELEVATION
1/2" = 1'-0"



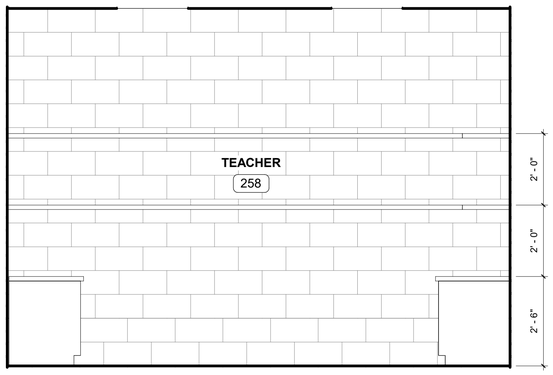
5 A-410 — CASEWORK ELEVATION
1/2" = 1'-0"



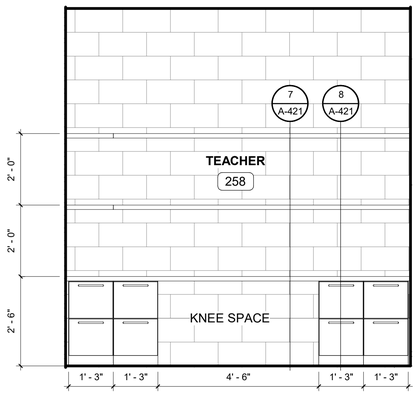
6 A-410 — CASEWORK ELEVATION
1/2" = 1'-0"



7 A-410 — CASEWORK ELEVATION
1/2" = 1'-0"



8 A-410 — CASEWORK ELEVATION
1/2" = 1'-0"



9 A-410 — CASEWORK ELEVATION
1/2" = 1'-0"

0" 1' - 0" 2' - 0" 4' - 0"
SCALE:1/2" = 1'-0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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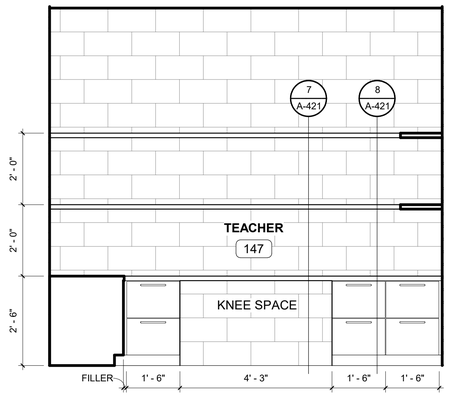
OKALOOSA COUNTY • SCHOOL DISTRICT •

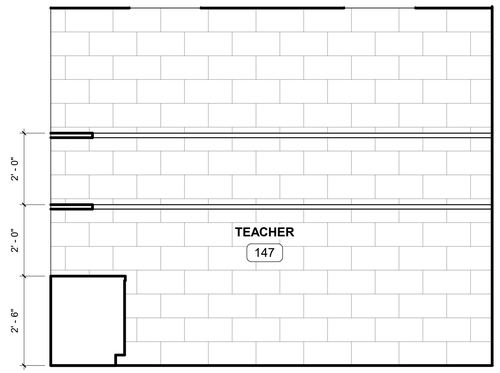
Seal:
STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

Project No.: 83X98735
Drawing Title:
CASEWORK ELEVATIONS

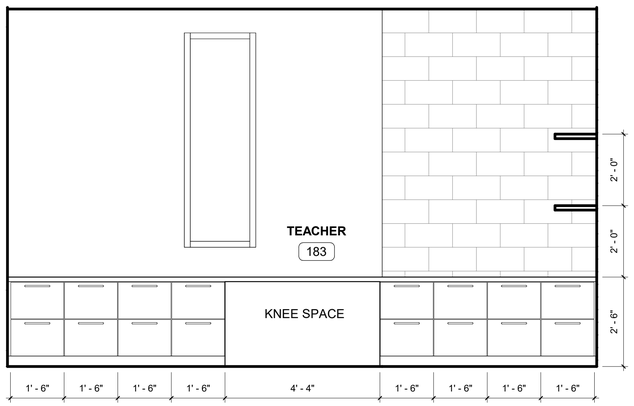
Date: 10 October 2024
Designed By: RH
Drawn By: KW
Checked By: RH
Drawing No.: A-410



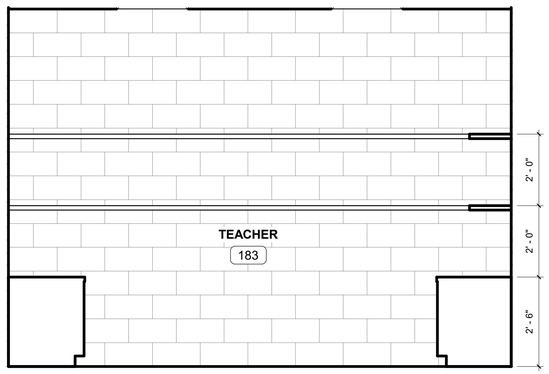
1 A-411 CASEWORK ELEVATION
1/2" = 1'-0"



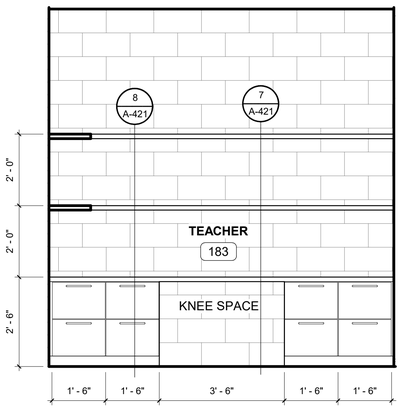
2 A-411 CASEWORK ELEVATION
1/2" = 1'-0"



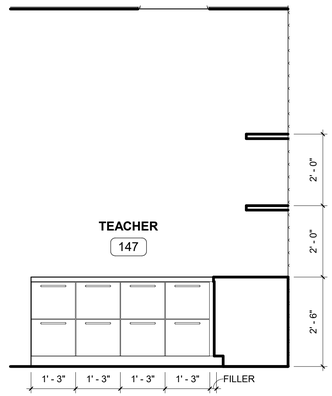
3 A-411 CASEWORK ELEVATION
1/2" = 1'-0"



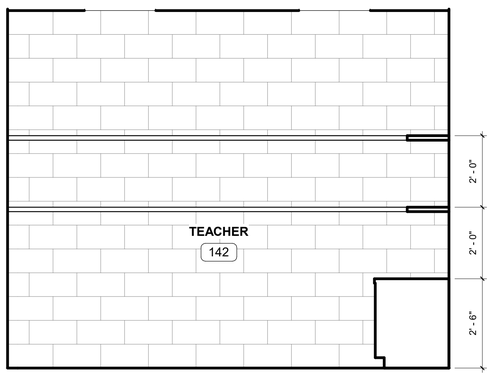
4 A-411 CASEWORK ELEVATION
1/2" = 1'-0"



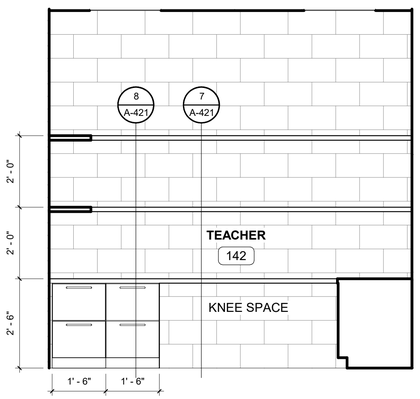
5 A-411 CASEWORK ELEVATION
1/2" = 1'-0"



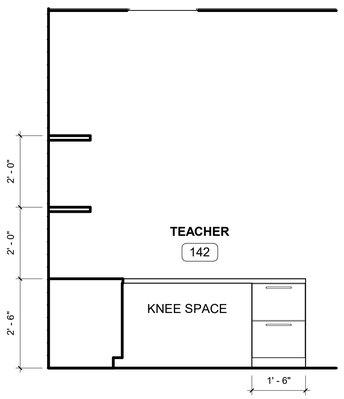
6 A-411 CASEWORK ELEVATION
1/2" = 1'-0"



7 A-411 CASEWORK ELEVATION
1/2" = 1'-0"



8 A-411 CASEWORK ELEVATION
1/2" = 1'-0"



9 A-411 CASEWORK ELEVATION
1/2" = 1'-0"

0" 1' - 0" 2' - 0" 4' - 0"
SCALE:1/2" = 1'-0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

Jacobs | TITAN TECHNOLOGIES

4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

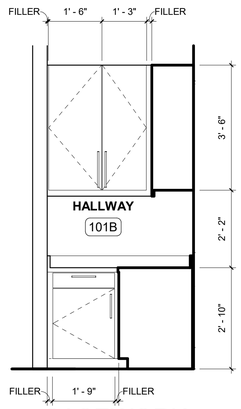
Project No.: 83X98735

Drawing Title:
CASEWORK ELEVATIONS

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.:
A-411



1 A-412 CASEWORK ELEVATION
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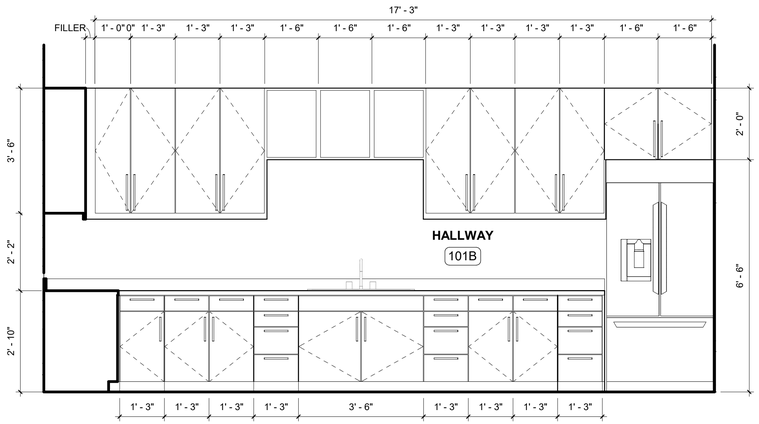
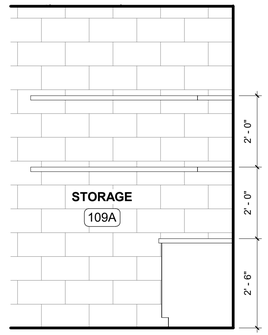
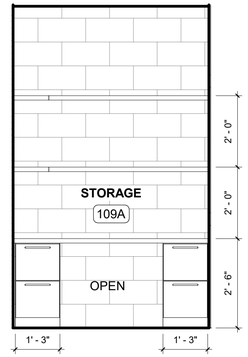


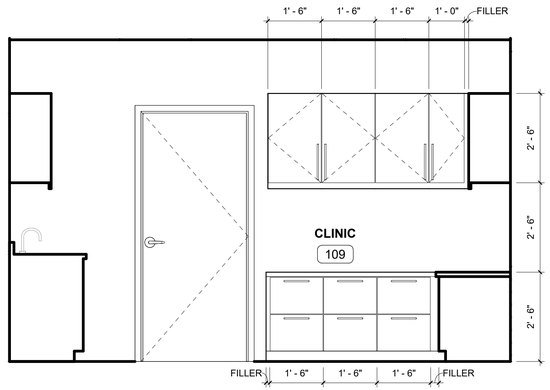
2 A-412 CASEWORK ELEVATION
1/2" = 1'-0"



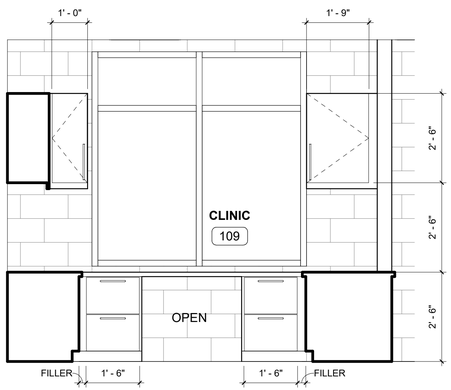
3 A-412 CASEWORK ELEVATION
1/2" = 1'-0"



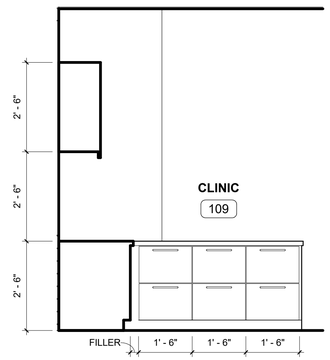
4 A-412 CASEWORK ELEVATION
1/2" = 1'-0"



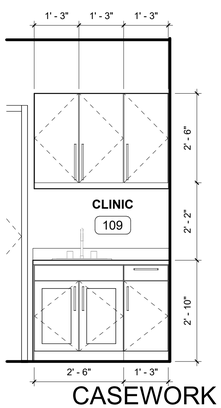
5 A-412 CASEWORK ELEVATION
1/2" = 1'-0"



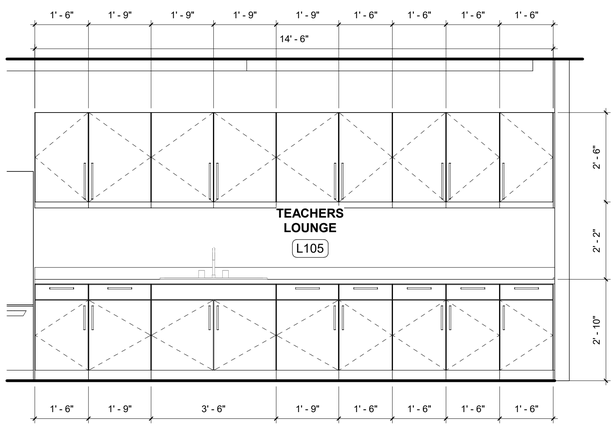
6 A-412 CASEWORK ELEVATION
1/2" = 1'-0"



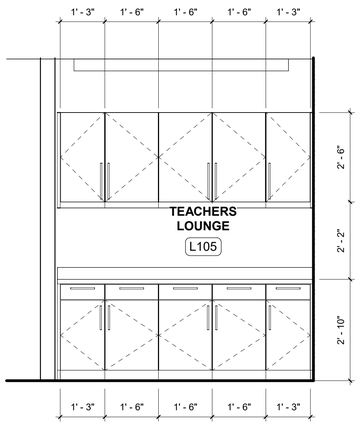
7 A-412 CASEWORK ELEVATION
1/2" = 1'-0"



8 A-412 CASEWORK ELEVATION
1/2" = 1'-0"



9 A-412 CASEWORK ELEVATION
1/2" = 1'-0"



10 A-412 CASEWORK ELEVATION
1/2" = 1'-0"

0" 1' - 0" 2' - 0" 4' - 0"
SCALE:1/2" = 1'-0"

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Jacobs | TITAN TECHNOLOGIES
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Heffernan Holland Morgan Architecture, P.A.
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OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HOLLAND
10/10/2024
NO. 9262
REGISTERED ARCHITECT

Donald J McCarthy

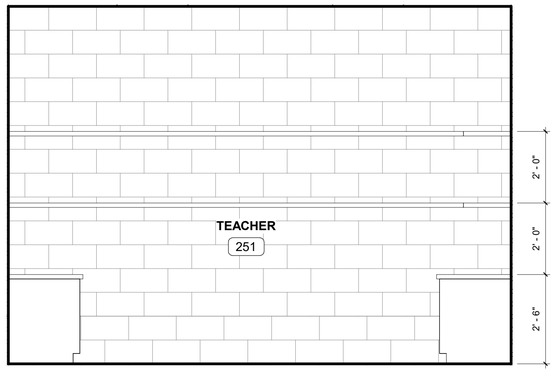
Project No.: 83X98735

Drawing Title:
CASEWORK ELEVATIONS

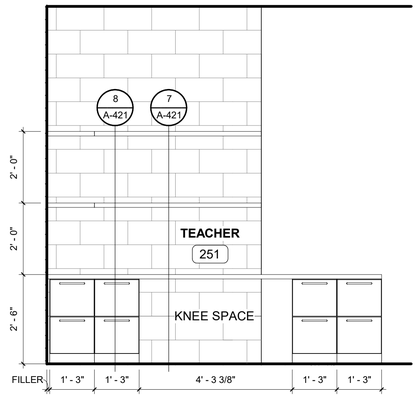
Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

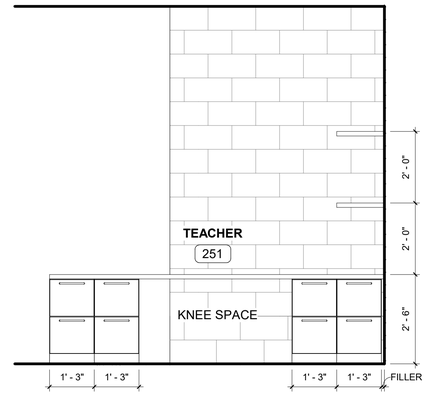
Drawing No.:
A-412



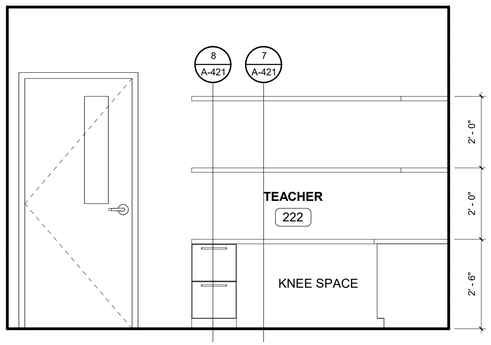
1 A-413 CASEWORK ELEVATION
1/2" = 1'-0"



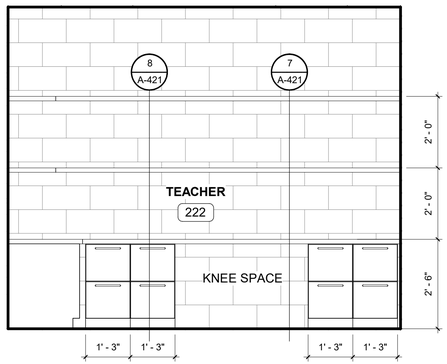
2 A-413 CASEWORK ELEVATION
1/2" = 1'-0"



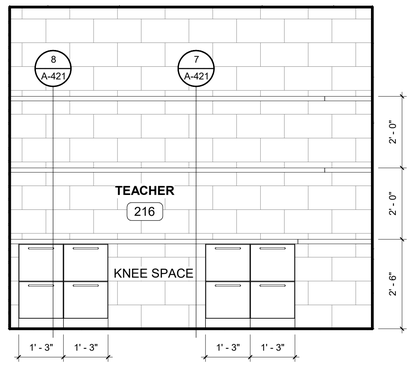
3 A-413 CASEWORK ELEVATION
1/2" = 1'-0"



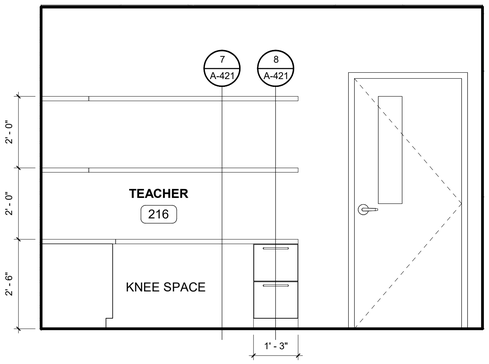
4 A-413 CASEWORK ELEVATION
1/2" = 1'-0"



5 A-413 CASEWORK ELEVATION
1/2" = 1'-0"



6 A-413 CASEWORK ELEVATION
1/2" = 1'-0"



7 A-413 CASEWORK ELEVATION
1/2" = 1'-0"

0" 1' - 0" 2' - 0" 4' - 0"
SCALE:1/2" = 1'-0"

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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
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Okaloosa County, Florida

OKALOOSA COUNTY • SCHOOL DISTRICT •

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

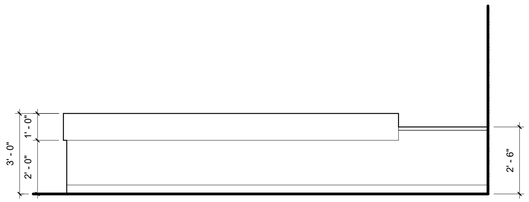
Project No.: 83X98735

Drawing Title:
CASEWORK ELEVATIONS

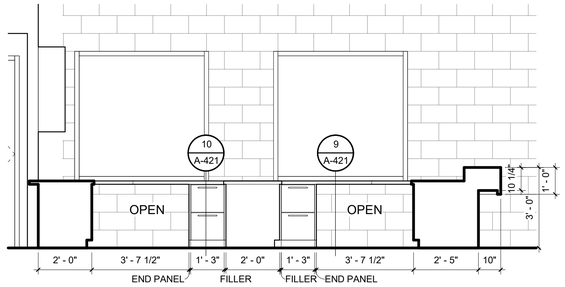
Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: CM

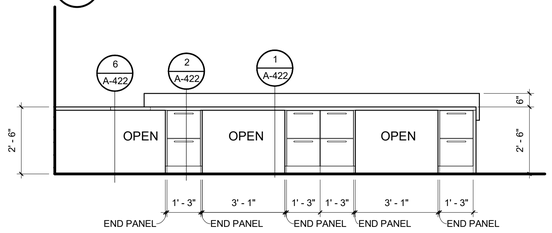
Drawing No.:
A-413



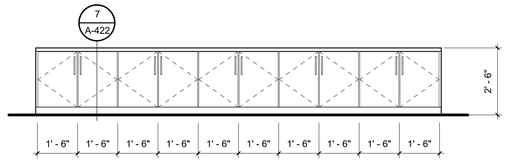
1 A-414 CASEWORK ELEVATION RECEPTION A
3/8" = 1'-0"



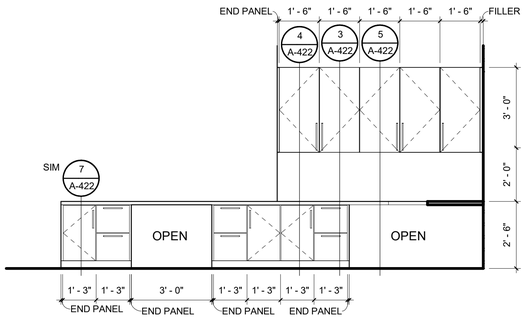
2 A-414 CASEWORK ELEVATION RECEPTION D
3/8" = 1'-0"



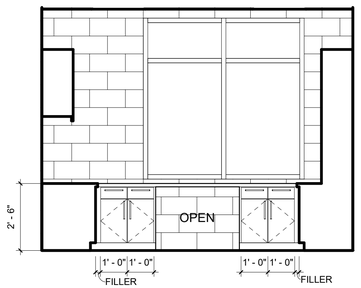
3 A-414 CASEWORK ELEVATION RECEPTION B
3/8" = 1'-0"



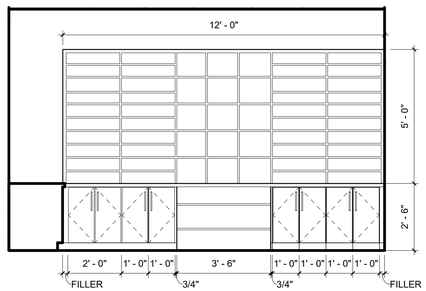
4 A-414 CASEWORK ELEVATION RECEPTION E
3/8" = 1'-0"



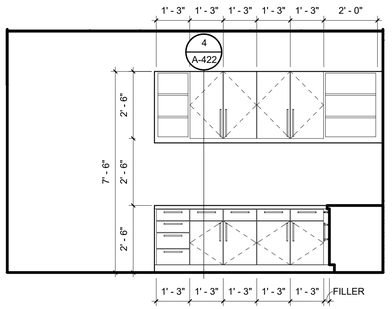
5 A-414 CASEWORK ELEVATION RECEPTION C
3/8" = 1'-0"



6 A-414 CASEWORK ELEVATION
3/8" = 1'-0"



7 A-414 CASEWORK ELEVATION
3/8" = 1'-0"



8 A-414 CASEWORK ELEVATION
3/8" = 1'-0"

0" 1' - 0" 2' - 0" 4' - 0"
SCALE:1/2" = 1'-0"

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Jacobs | TITAN TECHNOLOGIES
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Seal:

STATE OF FLORIDA
ROBERT ALLEN MORGAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

Project No.: 83X98735

Drawing Title:
CASEWORK ELEVATIONS

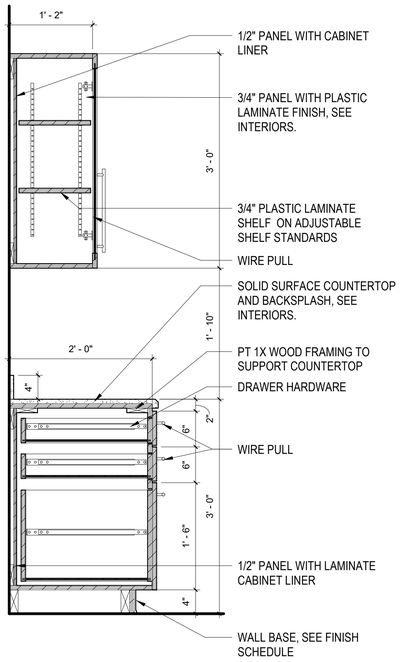
Date: 10 October 2024

Designed By: Designer
Drawn By: Author
Checked By: Checker

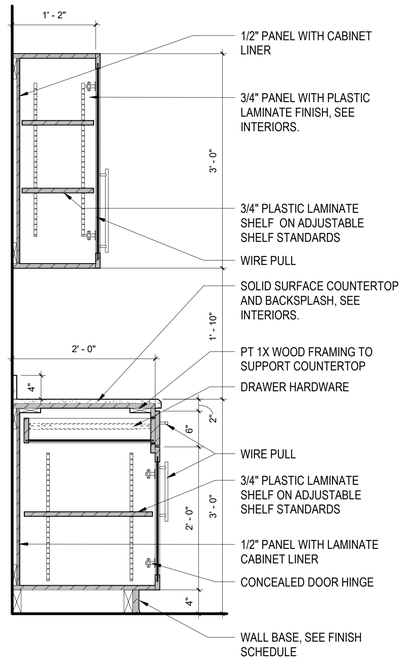
Drawing No.: A-414

GENERAL NOTES

1. PROVIDE RADIUS ON ALL OUTSIDE CORNERS OF COUNTERTOPS.



1 A-421 CASEWORK SECTION
1" = 1'-0"



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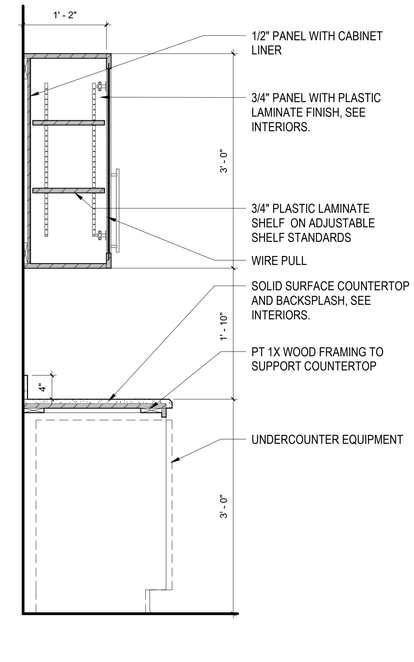

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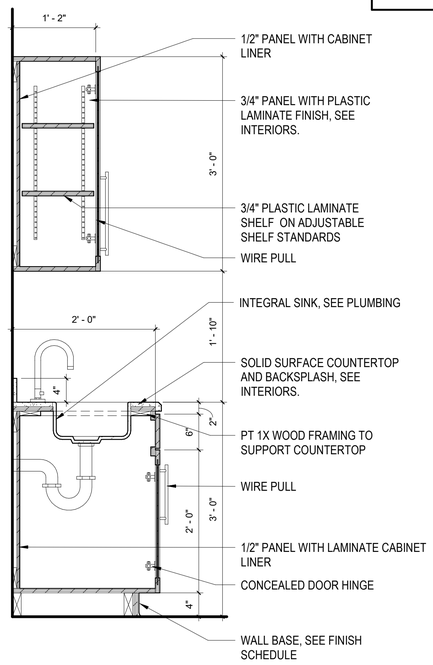

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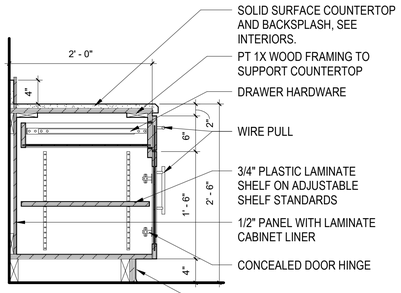
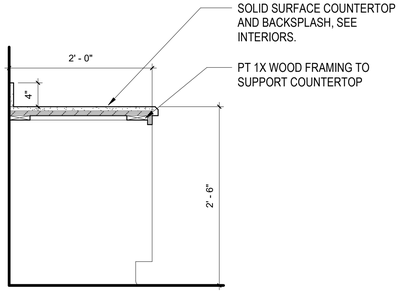


6 A-421 CASEWORK SECTION
1" = 1'-0"



9 A-421 CASEWORK SECTION
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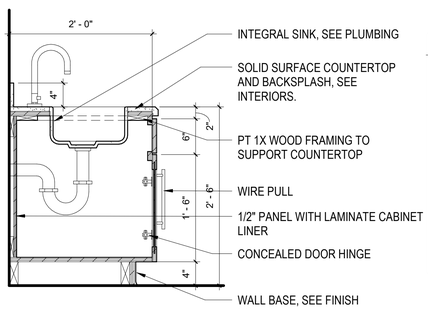
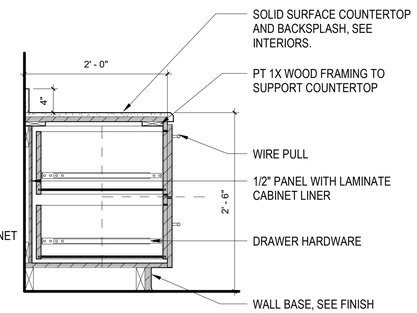


5 A-421 CASEWORK SECTION
1" = 1'-0"



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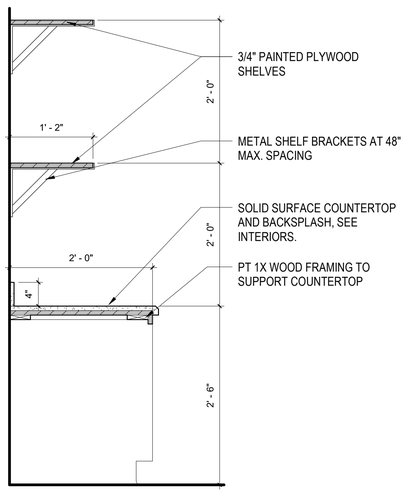
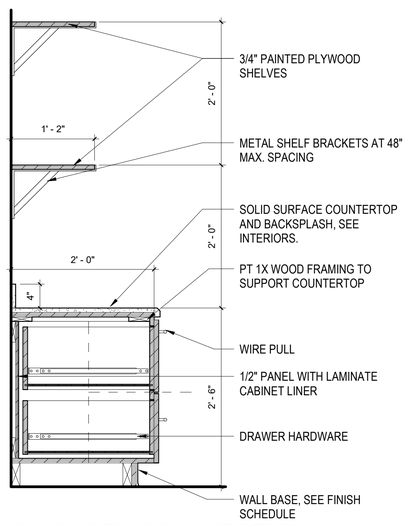
1" = 1'-0"



7 A-421 CASEWORK SECTION
1" = 1'-0"



8 A-421 CASEWORK SECTION
1" = 1'-0"

0" 6" 1' - 0" 2' - 0"
SCALE:1" = 1'-0"

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Heffernan Holland Morgan Architecture, P.A.
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Revision:

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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:



Project No.: 83X98735

Drawing Title:
CASEWORK SECTIONS

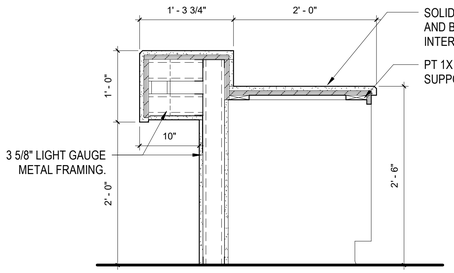
Date: 10 October 2024

Designed By: Designer
Drawn By: Author
Checked By: Checker

Drawing No.: A-421

GENERAL NOTES

1. PROVIDE RADIUS ON ALL OUTSIDE CORNERS OF COUNTERTOPS.



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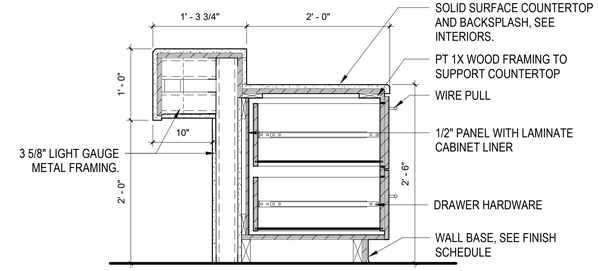
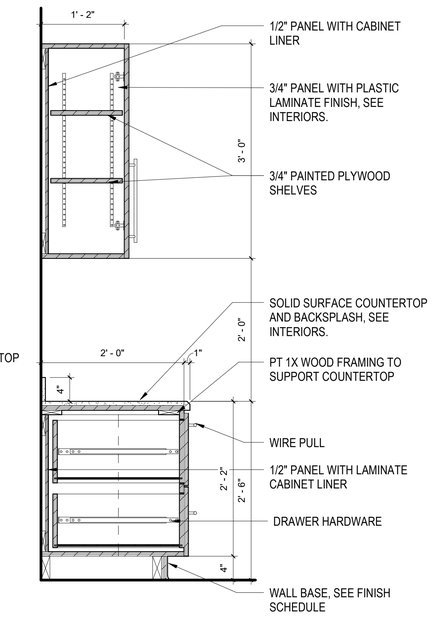
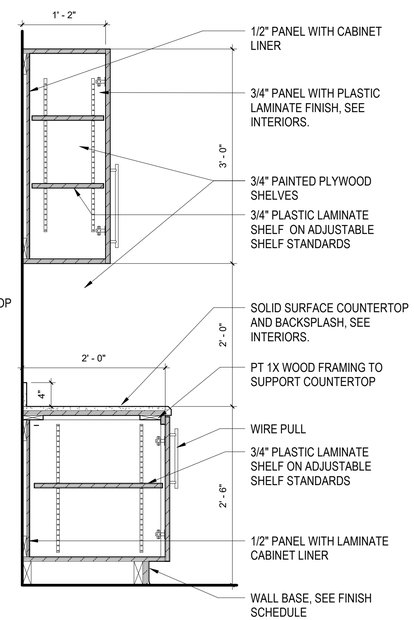


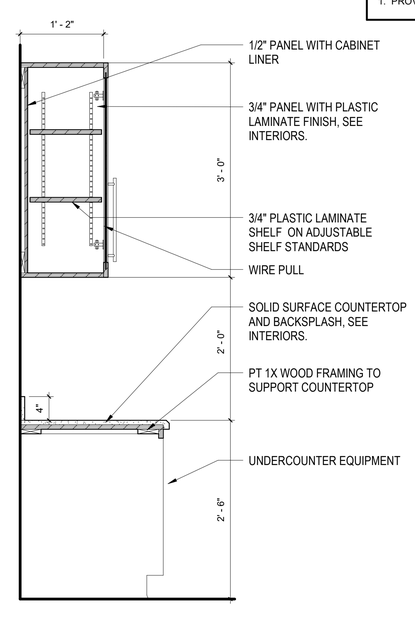
2 A-422 CASEWORK SECTION
1" = 1'-0"



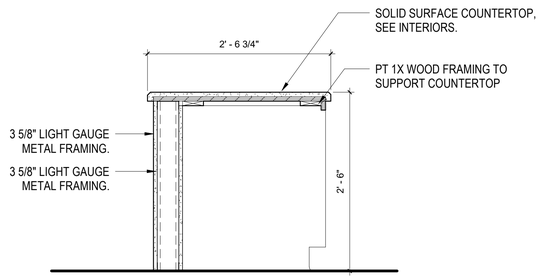
3 A-422 CASEWORK SECTION
1" = 1'-0"



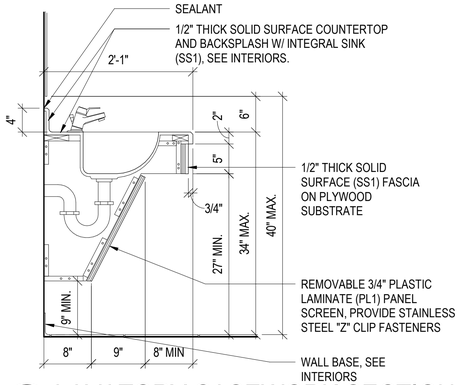
4 A-422 CASEWORK SECTION
1" = 1'-0"



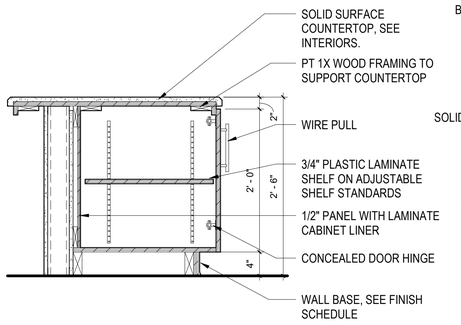
5 A-422 CASEWORK SECTION
1" = 1'-0"



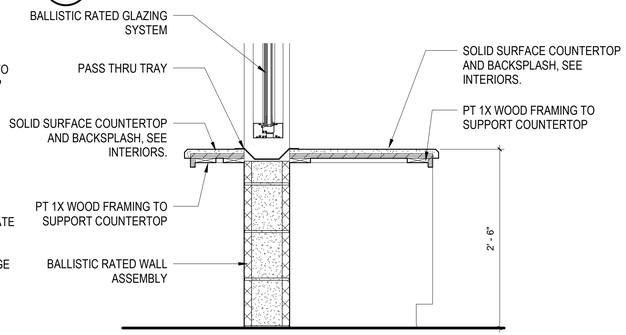
6 A-422 CASEWORK SECTION
1" = 1'-0"



8 A-422 LAVATORY CASEWORK SECTION
1" = 1'-0"



7 A-422 CASEWORK SECTION
1" = 1'-0"



9 A-422 CASEWORK SECTION
1" = 1'-0"

0" 6" 1' - 0" 2' - 0"
SCALE:1" = 1'-0"

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

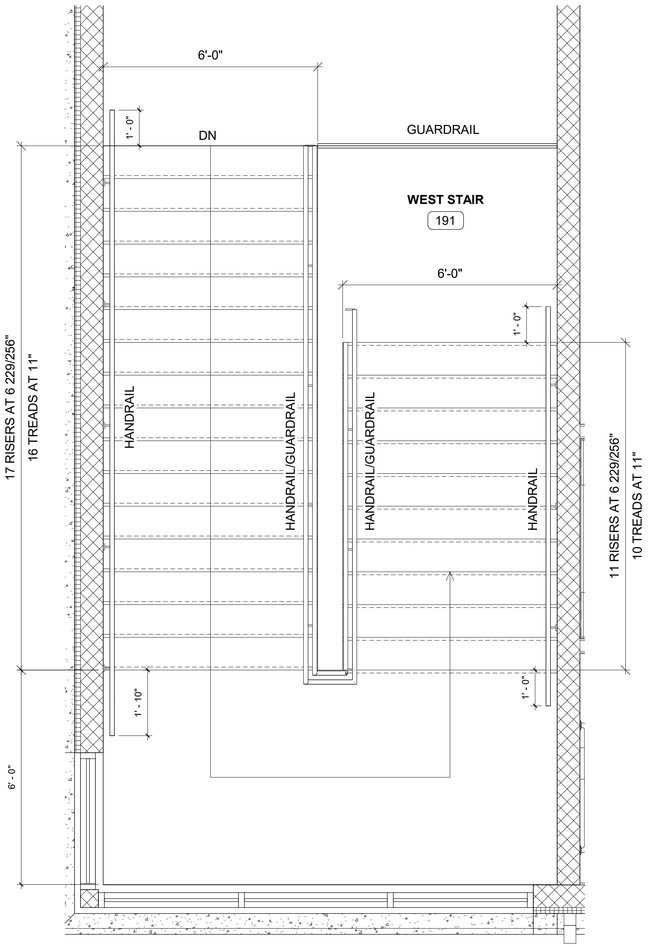
Project No.: 83X98735

Drawing Title:
CASEWORK SECTIONS

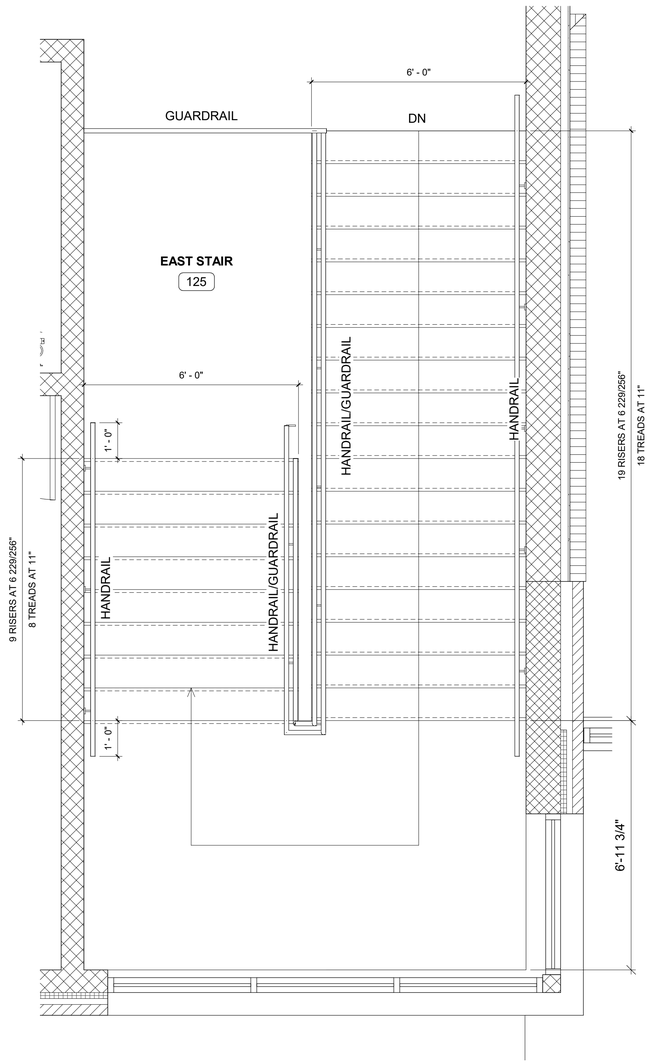
Date: 10 October 2024

Designed By: Designer
Drawn By: Author
Checked By: Checker

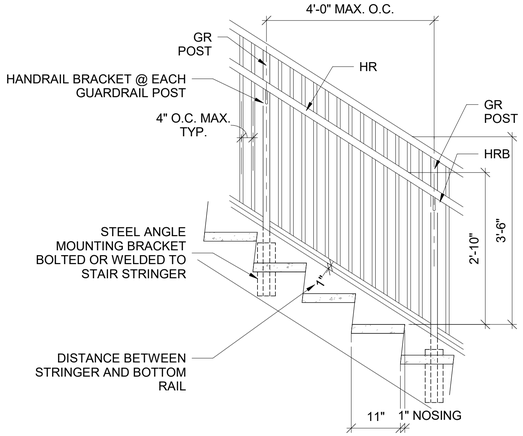
Drawing No.: A-422



1 A-430 ENLARGED STAIR PLAN WEST
1/2" = 1'-0"



2 A-430 ENLARGED STAIR PLAN EAST
1/2" = 1'-0"



3 A-430 HR/GR ELEVATION
3/4" = 1'-0"

0" 8" 1' - 4" 2' - 8"
SCALE:3/4" = 1'-0"

0" 1' - 0" 2' - 0" 4' - 0"
SCALE:1/2" = 1'-0"

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY • SCHOOL DISTRICT •

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

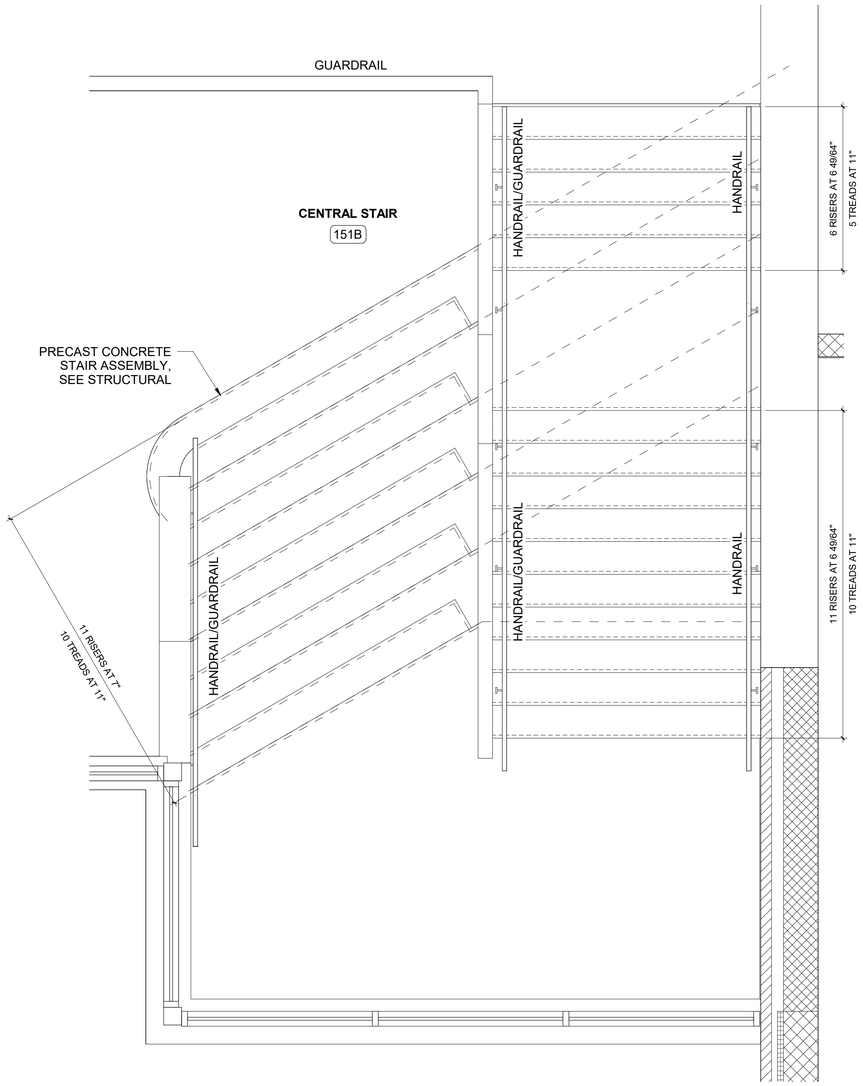
Project No.: 83X98735

Drawing Title:
ENLARGED STAIR PLANS AND DETAILS

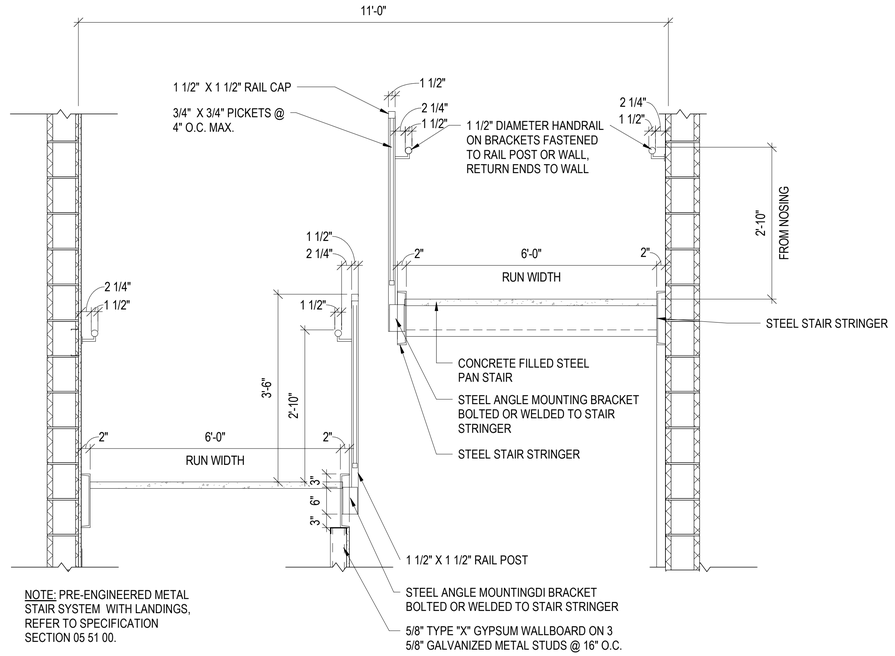
Date: 10 October 2024

Designed By: Designer
Drawn By: Author
Checked By: Checker

Drawing No.: A-430



1 A-431 ENLARGED STAIR PLAN CENTRAL
1/2" = 1'-0"



NOTE: PRE-ENGINEERED METAL STAIR SYSTEM WITH LANDINGS, REFER TO SPECIFICATION SECTION 05 51 00.

2 A-431 TYPICAL HANDRAIL/GUARDRAIL SECTION
3/4" = 1'-0"

0" 8" 1' - 4" 2' - 8"
SCALE:3/4" = 1'-0"

0" 1' - 0" 2' - 0" 4' - 0"
SCALE:1/2" = 1'-0"

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Date:	By:	Description:

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Okaloosa County School District
Okaloosa County, Florida

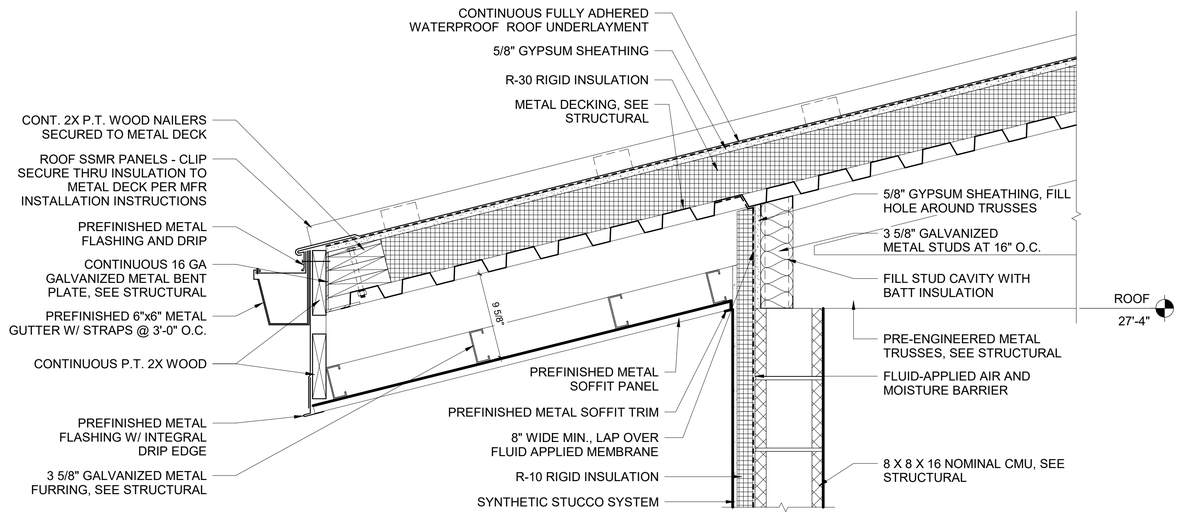
OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

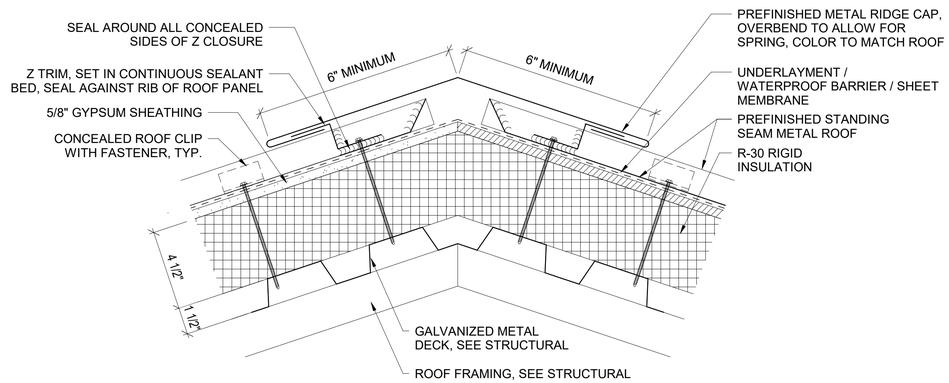
Project No.: 83X98735

Drawing Title:
ENLARGED STAIR PLANS AND DETAILS

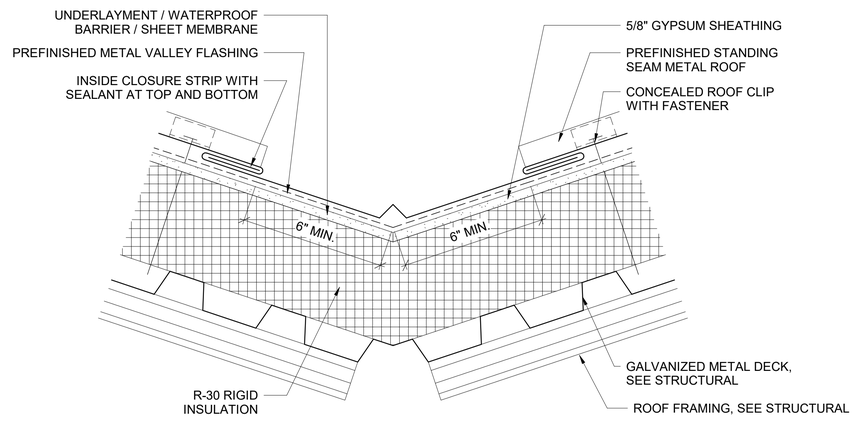
Date: 10 October 2024
Designed By: Designer
Drawn By: Author
Checked By: Checker
Drawing No.: A-431



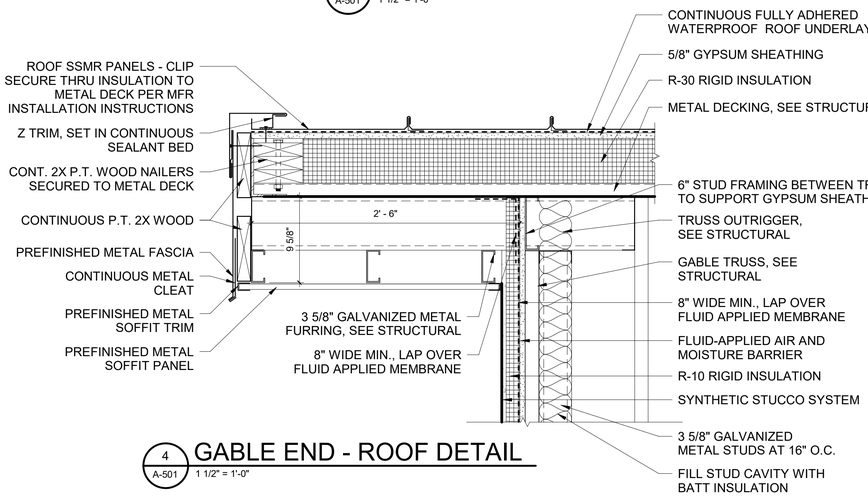
1 A-501 **ROOF DETAIL**
1 1/2" = 1'-0"



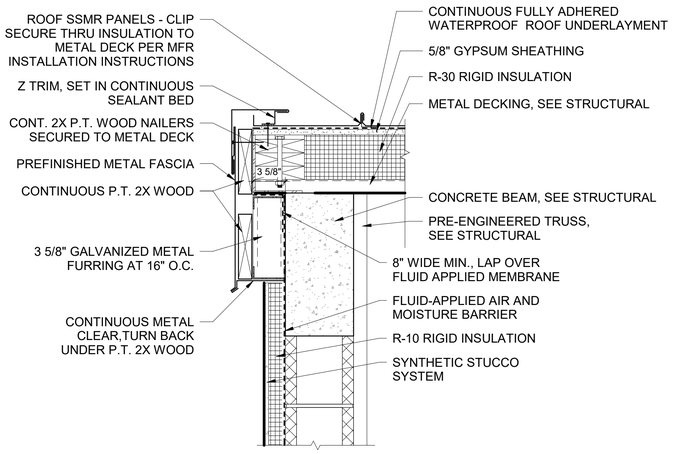
2 A-501 **SSMR RIDGE DETAIL**
3" = 1'-0"



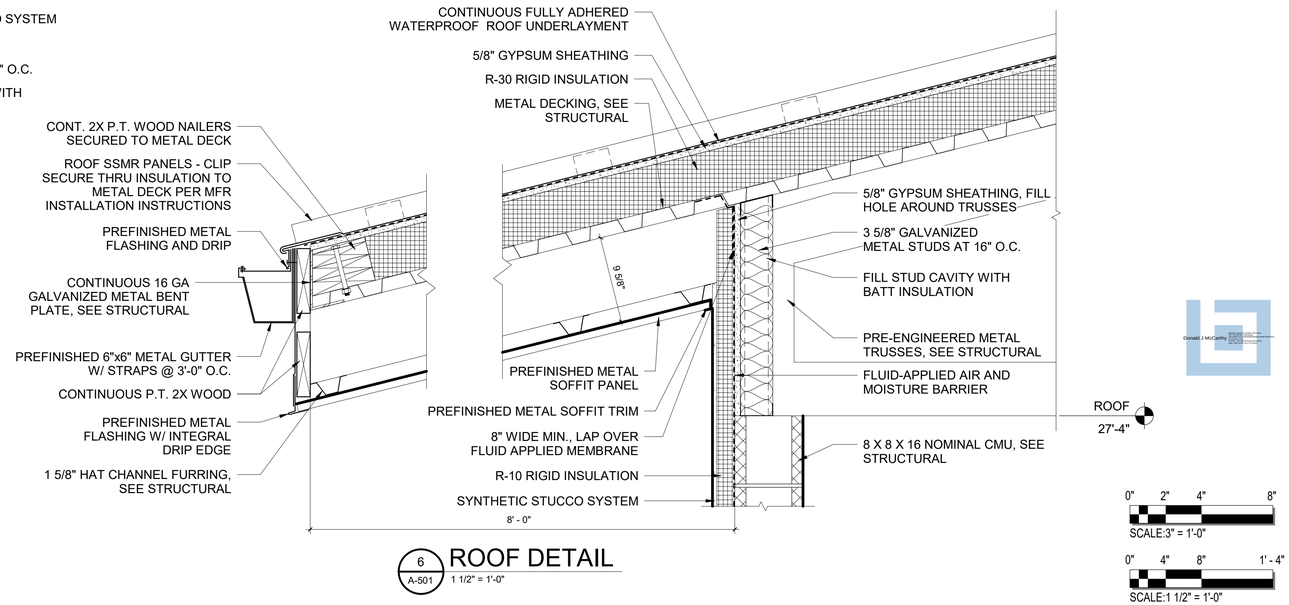
3 A-501 **SSMR VALLEY DETAIL**
3" = 1'-0"



4 A-501 **GABLE END - ROOF DETAIL**
1 1/2" = 1'-0"



5 A-501 **ROOF DETAIL**
1 1/2" = 1'-0"



6 A-501 **ROOF DETAIL**
1 1/2" = 1'-0"

0" 2" 4" 8"
SCALE:3" = 1'-0"

0" 4" 8" 1' - 4"
SCALE:1 1/2" = 1'-0"

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Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
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Okaloosa County, Florida

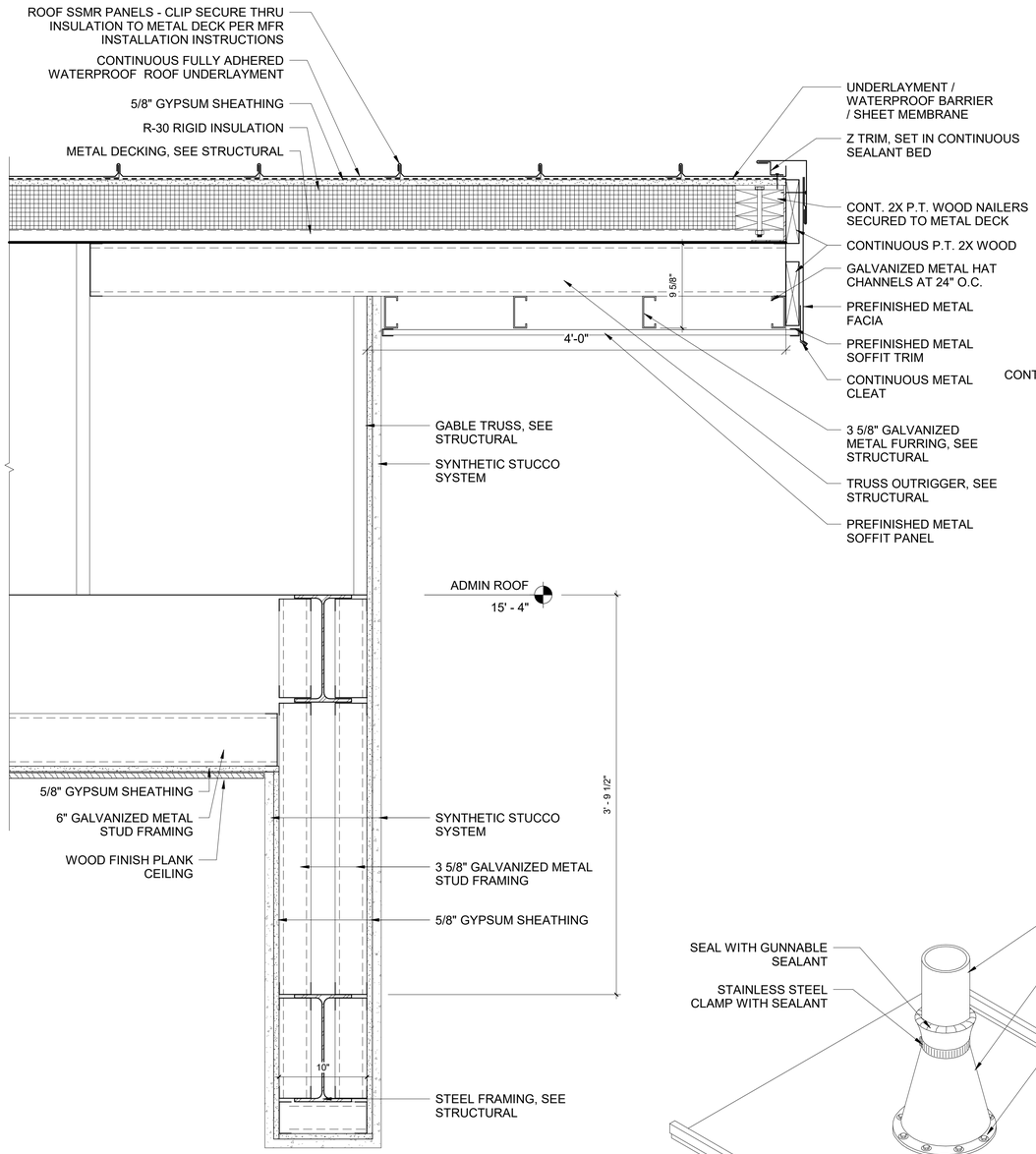
OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

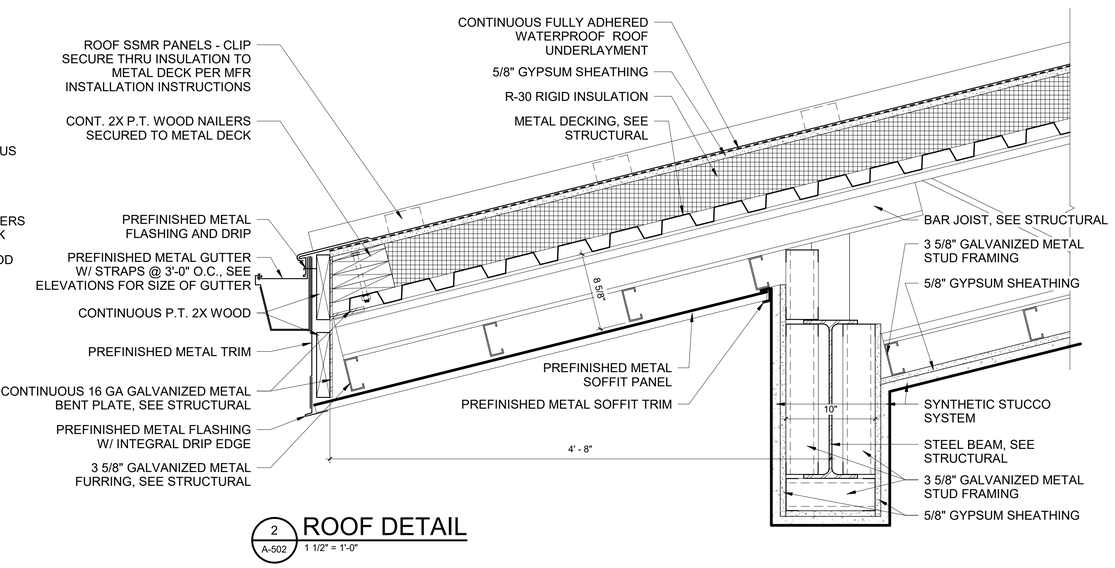
Donald J McCarthy

Project No.: 83X98735
Drawing Title:
ROOF DETAILS

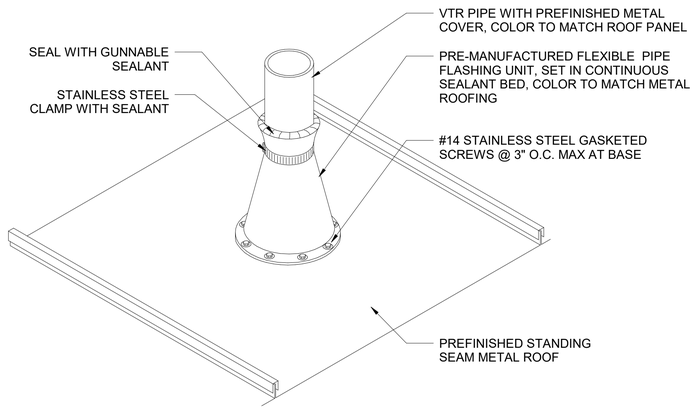
Date: 10 October 2024
Designed By: RH
Drawn By: KW
Checked By: RH
Drawing No.: A-501



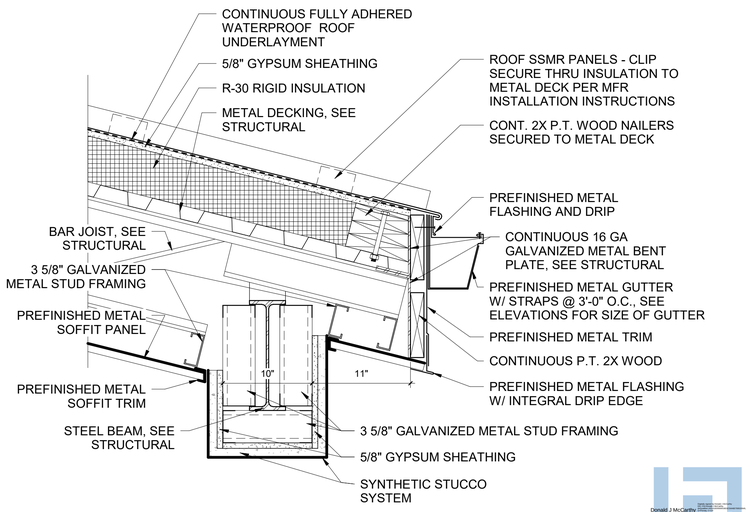
1 A-502 ROOF DETAIL
1 1/2" = 1'-0"



2 A-502 ROOF DETAIL
1 1/2" = 1'-0"



3 A-502 VENT THRU ROOF DETAIL
N.T.S.



4 A-502 ROOF DETAIL
1 1/2" = 1'-0"

0" 4" 8" 1' - 4"
SCALE:1 1/2" = 1'-0"

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312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

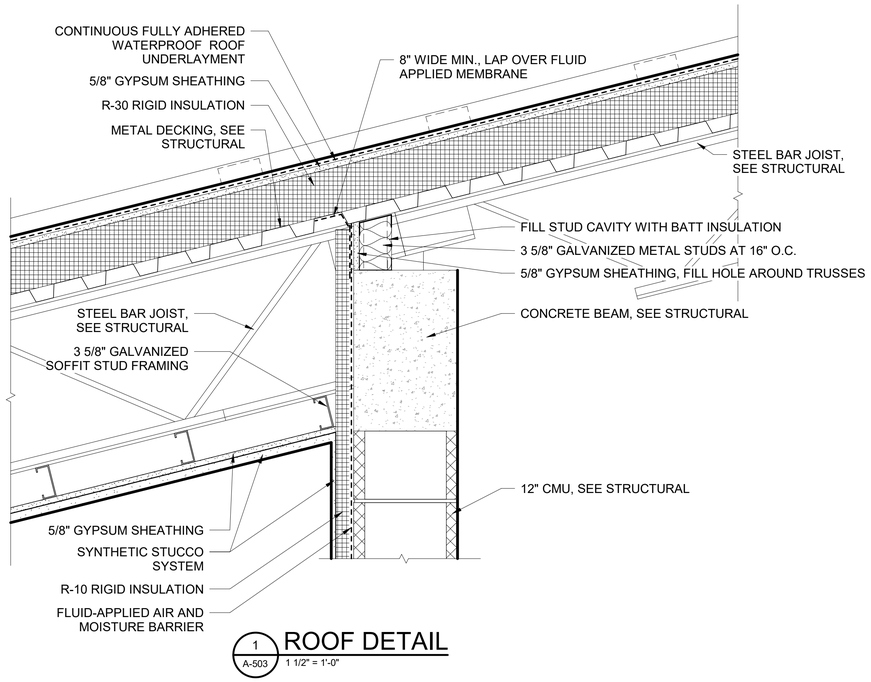
Project No.: 83X98735

Drawing Title:
ROOF DETAILS

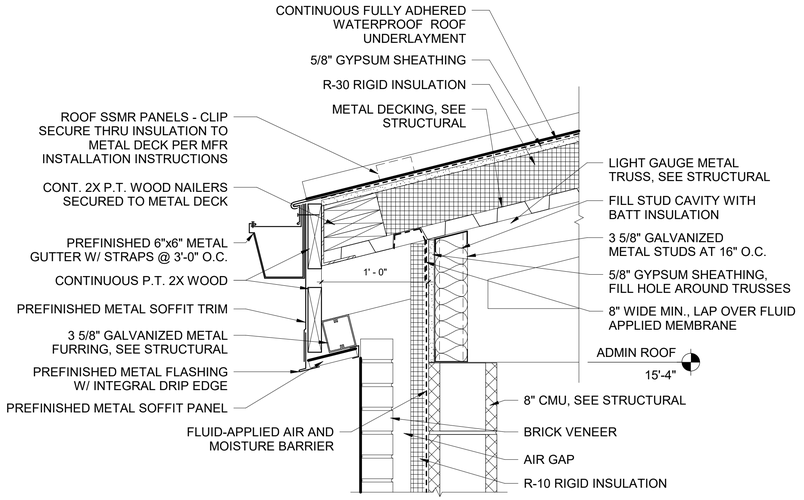
Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

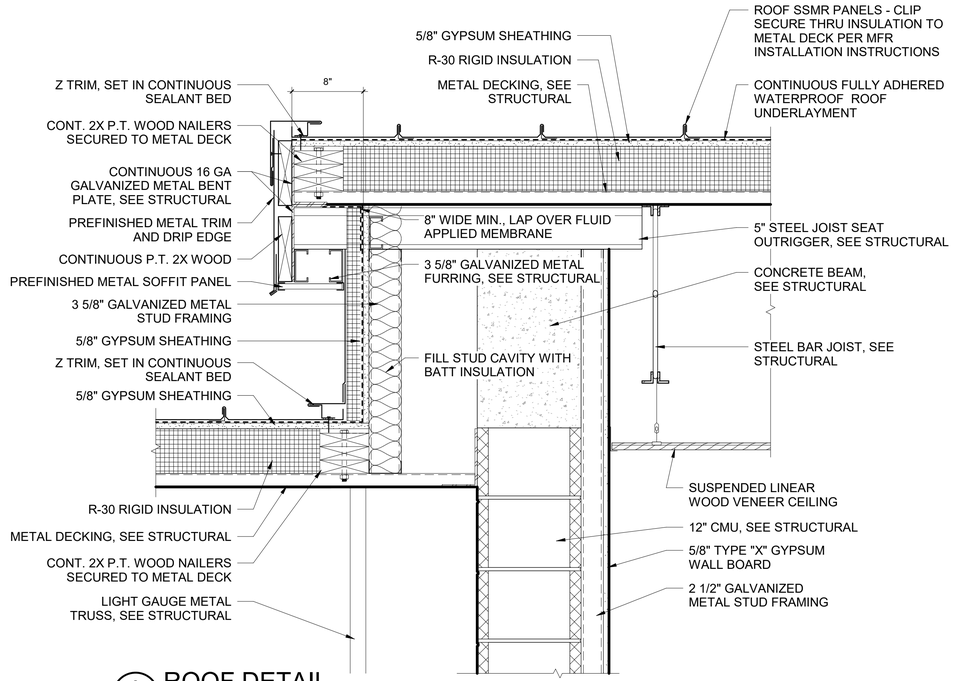
Drawing No.:
A-502



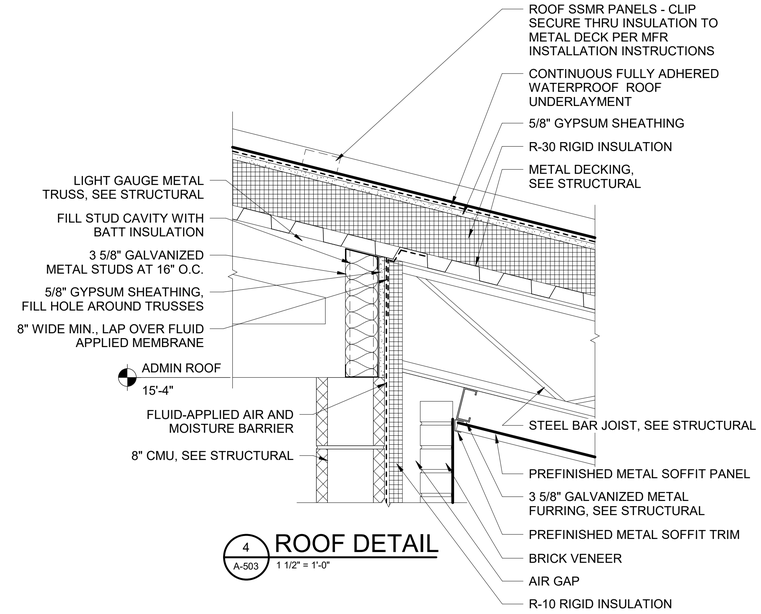
1 A-503 ROOF DETAIL
1 1/2" = 1'-0"



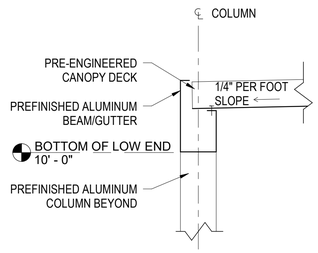
3 A-503 ROOF DETAIL
1 1/2" = 1'-0"



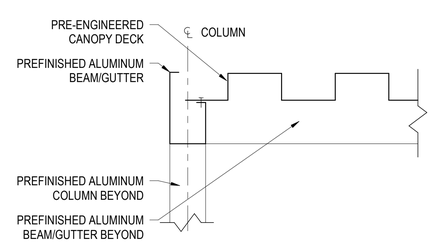
2 A-503 ROOF DETAIL
1 1/2" = 1'-0"



4 A-503 ROOF DETAIL
1 1/2" = 1'-0"



5 A-503 CANOPY EDGE - WALK-WAY
1 1/2" = 1'-0"



6 A-503 CANOPY EDGE - WALKWAY
1 1/2" = 1'-0"

0" 4" 8" 1' - 4"
SCALE:1 1/2" = 1'-0"

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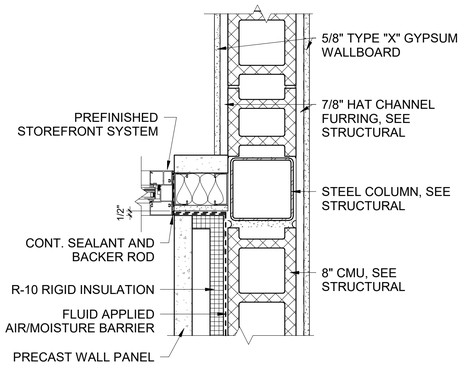
OKALOOSA COUNTY SCHOOL DISTRICT

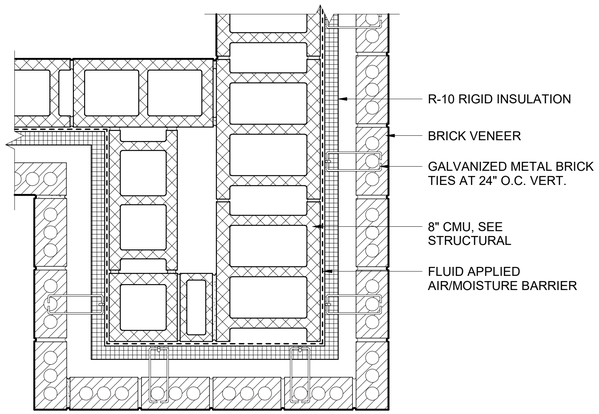
Seal:
STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

Project No.: 83X98735
Drawing Title:
ROOF DETAILS

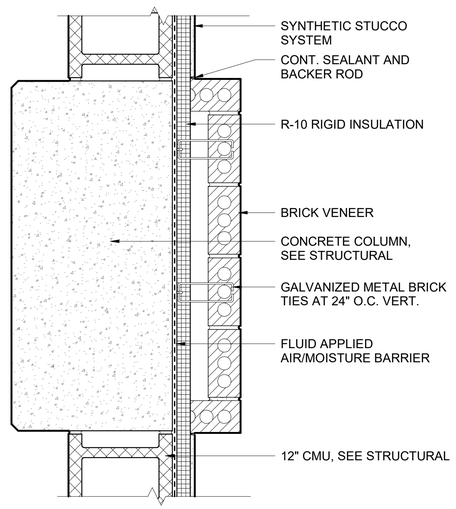
Date: 10 October 2024
Designed By: RH
Drawn By: KW
Checked By: RH
Drawing No.: A-503



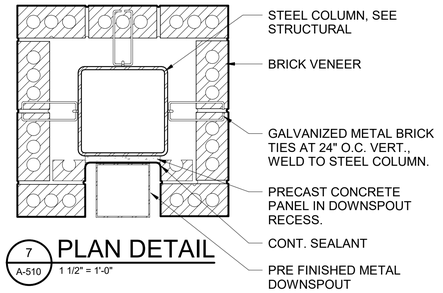
1 A-510 PLAN DETAIL
1 1/2" = 1'-0"



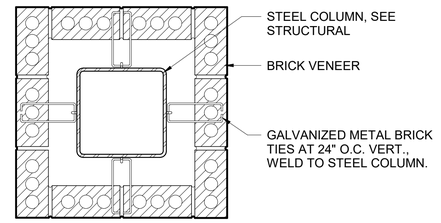
2 A-510 PLAN DETAIL
1 1/2" = 1'-0"



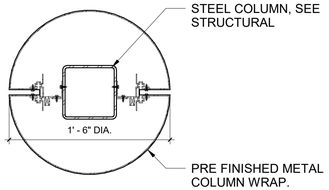
3 A-510 PLAN DETAIL
1 1/2" = 1'-0"



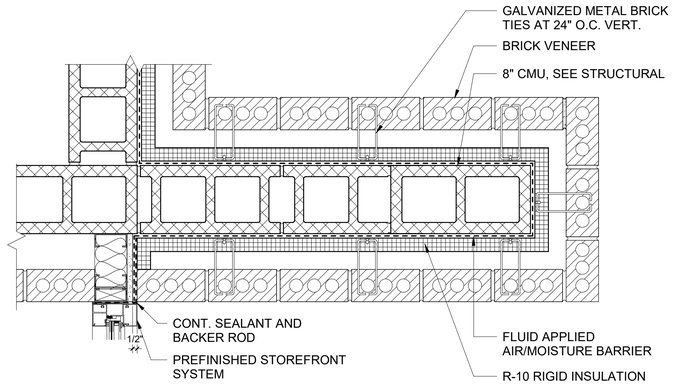
7 A-510 PLAN DETAIL
1 1/2" = 1'-0"



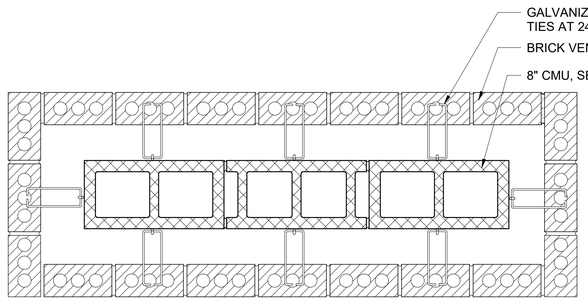
8 A-510 PLAN DETAIL
1 1/2" = 1'-0"



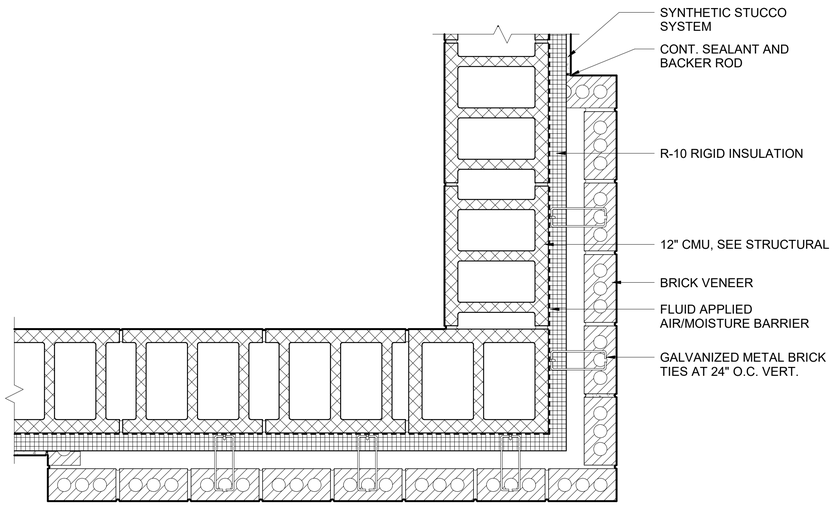
9 A-510 PLAN DETAIL
1 1/2" = 1'-0"



4 A-510 PLAN DETAIL
1 1/2" = 1'-0"



5 A-510 PLAN DETAIL
1 1/2" = 1'-0"



6 A-510 PLAN DETAIL
1 1/2" = 1'-0"

0" 4" 8" 1' - 4"
SCALE:1 1/2" = 1'-0"

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NO. 9262
REGISTERED ARCHITECT

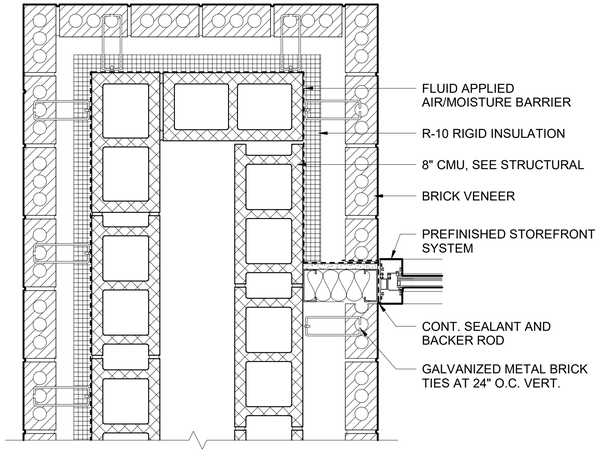
Project No.: 83X98735

Drawing Title:
PLAN DETAILS

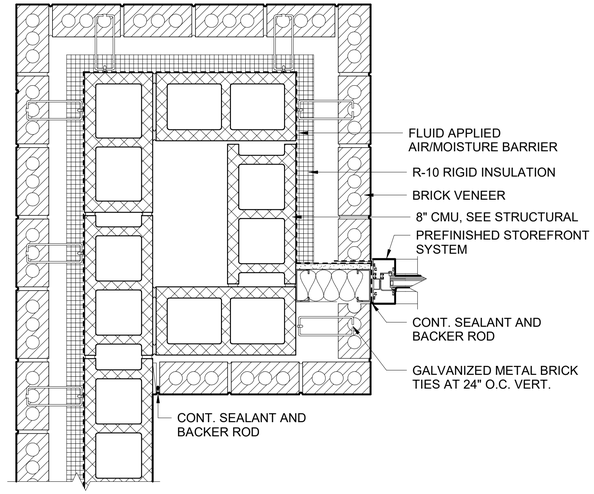
Date: 10 October 2024

Designed By: Designer
Drawn By: Author
Checked By: Checker

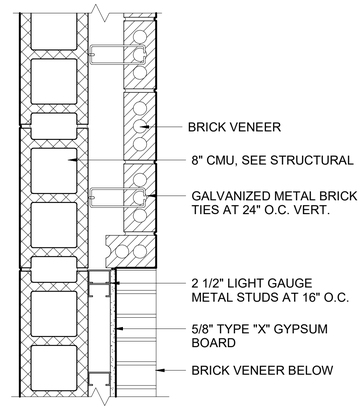
Drawing No.: A-510



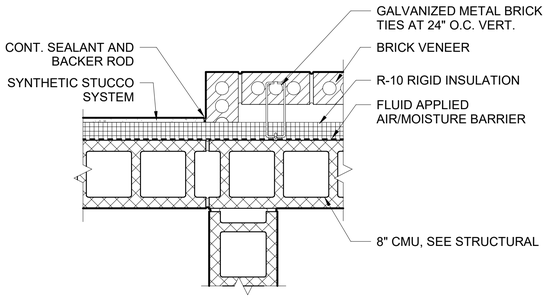
1 A-511 PLAN DETAIL
1 1/2" = 1'-0"



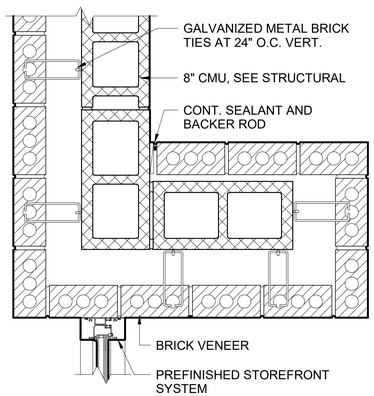
2 A-511 PLAN DETAIL
1 1/2" = 1'-0"



5 A-511 PLAN DETAIL
1 1/2" = 1'-0"



4 A-511 PLAN DETAIL
1 1/2" = 1'-0"



3 A-511 PLAN DETAIL
1 1/2" = 1'-0"

0" 4" 8" 1' - 4"
SCALE:1 1/2" = 1'-0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

Jacobs | TITAN TECHNOLOGIES
4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

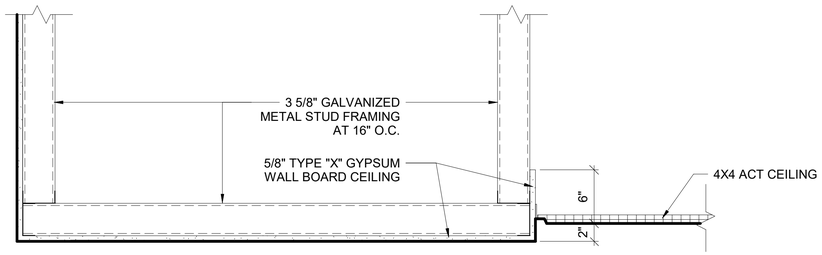
Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

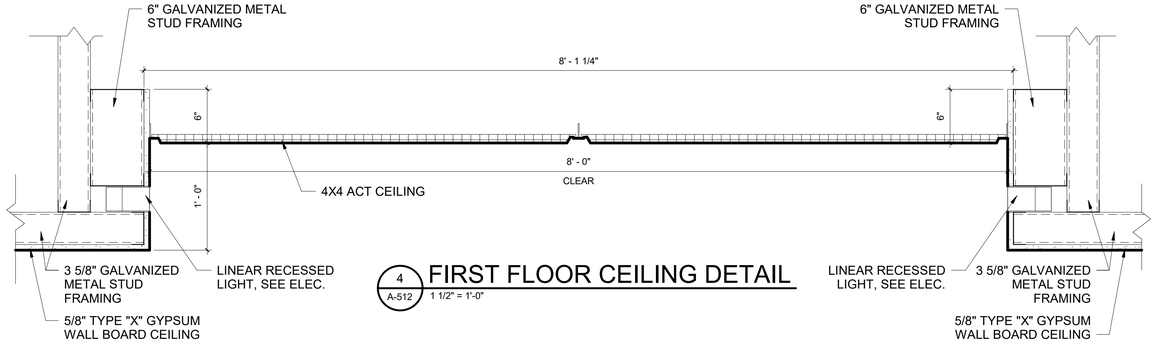
Seal:
STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

Project No.: 83X98735
Drawing Title:
PLAN DETAILS

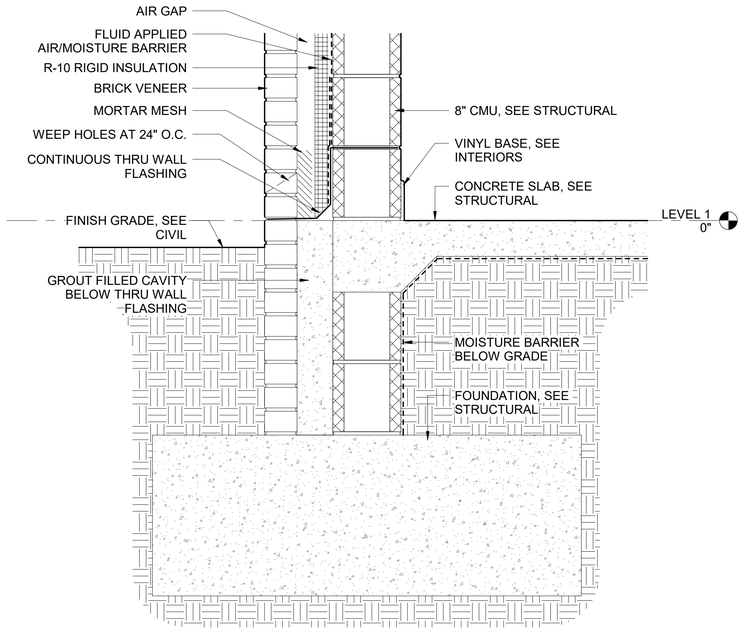
Date: 10 October 2024
Designed By: Designer
Drawn By: Author
Checked By: Checker
Drawing No.: A-511



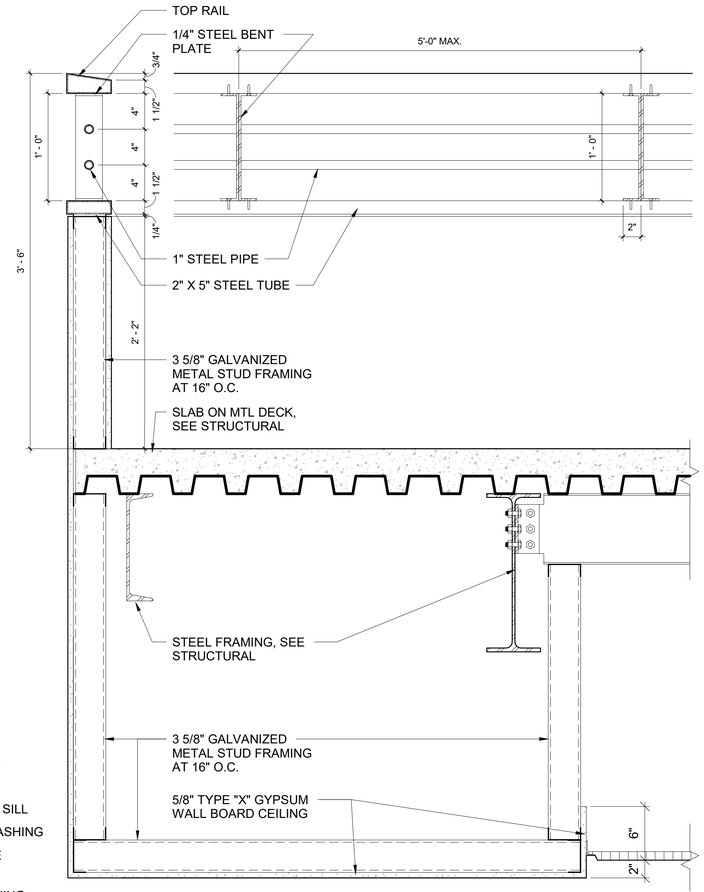
1 A-512 CEILING DETAIL
1 1/2" = 1'-0"



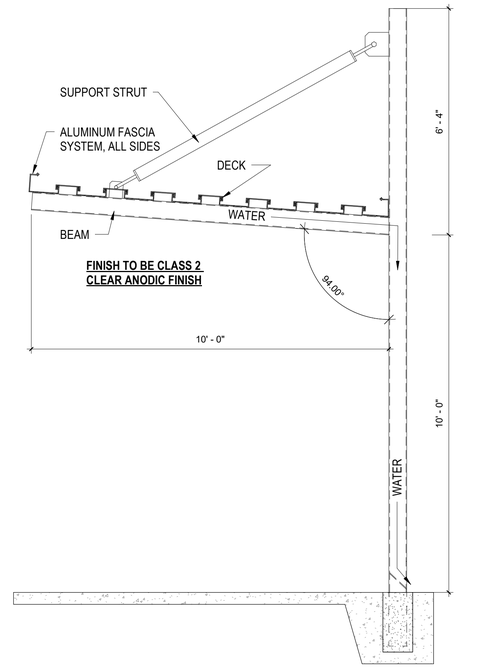
4 A-512 FIRST FLOOR CEILING DETAIL
1 1/2" = 1'-0"



2 A-512 FOUNDATION DETAIL
1 1/2" = 1'-0"

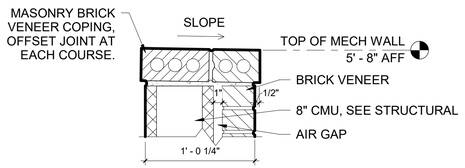


7 A-512 BRIDGE DETAIL
1 1/2" = 1'-0"



6 A-512 CANOPY DETAIL
1/2" = 1'-0"

5 A-512 BRICK SEAT DETAIL
1 1/2" = 1'-0"



3 A-512 MECH YARD WALL COPING DETAIL
1 1/2" = 1'-0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

0" 1' - 0" 2' - 0" 4' - 0"
SCALE:1/2" = 1'-0"

0" 4" 8" 1' - 4"
SCALE:1 1/2" = 1'-0"

Jacobs | TITAN TECHNOLOGIES
4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
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Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

Project No.: 83X98735

Drawing Title:
DETAILS

Date: 10 October 2024

Designed By: Designer
Drawn By: Author
Checked By: Checker

Drawing No.: A-512

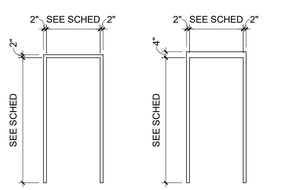
DOOR SCHEDULE - 1F AREA A

DOOR NO	DOOR						FRAME		DETAIL			FIRE RATING	HARDWARE	COMMENTS
	WIDTH	HEIGHT	THICK	TYPE	MATERIAL	GLAZING	TYPE	MATERIAL	HEAD	JAMB	SILL			
152	8' - 0"	7' - 0"	1 3/4"	5	HM	TG	2	HM	6/A-621	6/A-621	-	-	16.0	
152A	3' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	24.0	
152B	3' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	24.0	
152C	3' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	24.0	
152D	3' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	15.0	
153	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
154A	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
154B	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
155A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
155B	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
156	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
157	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
158	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
159A	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
159B	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
160A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
160B	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
161	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
162	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
168	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
169	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
170	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
171A	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
171B	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
172A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
172B	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
173	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
174	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
175	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
176A	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
176B	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
177A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
177B	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
178	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
179	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
180	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
181	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
182	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
183	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	27.0	
184	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
186	6' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	13.0	
187	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
190	6' - 0"	7' - 0"	1 3/4"	2	HM		4	HM	9/A-621	2/A-620	-	-	6.0	
191A	6' - 0"	7' - 0"	1 3/4"	5	HM	FG	2	HM	9/A-621	4/A-621	-	1 HR	12.0	
191B	6' - 0"	7' - 0"	1 3/4"	7	ALUM	LGTFG	SF	ALUM	6/A-620	4/A-620	8/A-620	1 HR	2.0	
M5	5' - 0"	7' - 0"	1 3/4"	2	HM	-	4	HM	1/A-620	2/A-620	-	-	6.0	
M6	5' - 0"	7' - 0"	1 3/4"	2	HM	-	4	HM	1/A-620	2/A-620	-	-	6.0	
M7	5' - 0"	7' - 0"	1 3/4"	2	HM	-	4	HM	1/A-620	2/A-620	-	-	6.0	
M8	5' - 0"	7' - 0"	1 3/4"	2	HM	-	4	HM	1/A-620	2/A-620	-	-	6.0	

DOOR SCHEDULE - TEACHERS LOUNGE

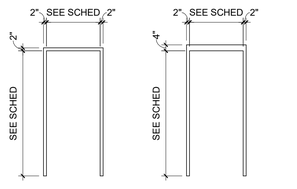
DOOR NO	DOOR						FRAME		DETAIL			FIRE RATING	HARDWARE	COMMENTS
	WIDTH	HEIGHT	THICK	TYPE	MATERIAL	GLAZING	TYPE	MATERIAL	HEAD	JAMB	SILL			
L101	3' - 0"	7' - 0"	1 3/4"	2	HM	-	4	HM	3/A-621	4/A-621	-	1 HR	7.0	
L102	3' - 0"	7' - 0"	1 3/4"	2	HM	-	4	HM	3/A-621	4/A-621	-	1 HR	7.0	
L103	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	30.0	
L104	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	30.0	
L105	3' - 0"	7' - 0"	1 3/4"	2	HM	-	4	HM	1/A-620	2/A-620	-	-	5.0	
L106	3' - 0"	7' - 0"	1 3/4"	2	HM	-	4	HM	1/A-620	2/A-620	-	-	8.0	
L107	6' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	-	23.0	
L108	6' - 0"	8' - 0"	3"	9	INSUL. STEEL	-	-	INSUL. STEEL	9/A-620	10/A-620	-	-	33.0	

DOOR FRAME ELEVATIONS



HOLLOW METAL FRAME (HM) 1

HOLLOW METAL FRAME (HM) 2



INSULATED HOLLOW METAL FRAME (HM) 3

INSULATED HOLLOW METAL FRAME (HM) 4

NOTE: SEE STOREFRONT/CURTAIN WALL ELEVATIONS FOR ADDITIONAL FRAME TYPES.

GLAZING LEGEND

LGT - INSULATED LOW E TINTED, LAMINATED GLASS (ATFP/BLAST/HURRICANE IMPACT)

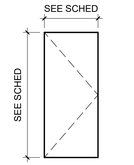
LGTFG - INSULATED LOW E TINTED, LAMINATED GLASS (ATFP/BLAST/HURRICANE IMPACT) / FIRE-RATED GLASS

BG - BALLISTICS III GLASS

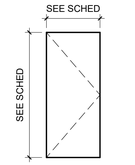
TG - 1/4" THICK TEMPERED GLASS

FG - FIRE-RATED GLASS

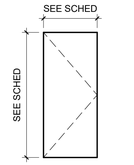
DOOR ELEVATIONS



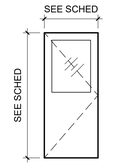
HOLLOW METAL DOOR (HM) 1



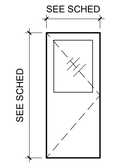
INSUL. HOLLOW METAL DOOR (HM) 2



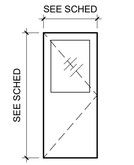
SOLID CORE WOOD DOOR (SCWD) 3



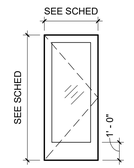
HALF-LITE SOLID CORE WOOD DOOR (SCWD) 4



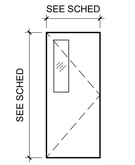
HALF-LITE HOLLOW METAL DOOR (HM) 5



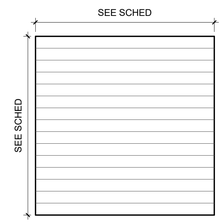
INSULATED HALF-LITE HOLLOW METAL DOOR (HM) 6



ALUMINUM STOREFRONT DOOR (ALUM) 7



INSULATED NARROW-LITE HOLLOW METAL DOOR (HM) 8



INSUL. OVER HEAD COILING DOOR (OHCD) 9

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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Revision:

Date:	By:	Description:

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OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

Project No.: 83X98735

Drawing Title:
DOOR SCHEDULE

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-601

DOOR SCHEDULE - 1F AREA B

DOOR NO	DOOR						FRAME		DETAIL			FIRE RATING	HARDWARE	COMMENTS
	WIDTH	HEIGHT	THICK	TYPE	MATERIAL	GLAZING	TYPE	MATERIAL	HEAD	JAMB	SILL			
125A	6' - 0"	7' - 0"	1 3/4"	5	HM	FG	2	HM	9/A-621	4/A-621	-	1 HR	11.0	
125B	6' - 0"	7' - 0"	1 3/4"	5	HM	FG	2	HM	9/A-621	4/A-621	-	1 HR	11.0	
126	3' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	18.0	
127	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
128A	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
128B	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
129A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
129B	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
130	8' - 0"	7' - 0"	1 3/4"	5	HM	TG	2	HM	6/A-621	6/A-621	-	-	16.0	
130A	3' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	15.0	
130B	3' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	24.0	
131	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
132	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
133	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
134	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
135	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
136A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
136B	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
137A	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
137B	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
138	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
139	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
140	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
140A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
141	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
142	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
143	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
144	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	2	HM	3/A-621	4/A-621	-	SMOKE	21.0	
145	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	2	HM	3/A-621	4/A-621	-	SMOKE	25.0	
147	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
148	3' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	14.0	
150	3' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	18.0	
151A	6' - 0"	8' - 0"	1 3/4"	7	ALUM	LGT	SF	ALUM	5/A-620	7/A-620	8/A-620	-	2.0	
151B	6' - 0"	8' - 0"	1 3/4"	7	ALUM	LGT	SF	ALUM	5/A-620	7/A-620	8/A-620	-	3.0	
151C	6' - 0"	8' - 0"	1 3/4"	7	ALUM	LGT	SF	ALUM	5/A-620	7/A-620	8/A-620	-	4.0	
M1	5' - 0"	7' - 0"	1 3/4"	2	HM	-	4	HM	1/A-620	2/A-620	-	-	6.0	
M2	5' - 0"	7' - 0"	1 3/4"	2	HM	-	4	HM	1/A-620	2/A-620	-	-	6.0	
M3	5' - 0"	7' - 0"	1 3/4"	2	HM	-	4	HM	1/A-620	2/A-620	-	-	6.0	
M4	5' - 0"	7' - 0"	1 3/4"	2	HM	-	4	HM	1/A-620	2/A-620	-	-	6.0	

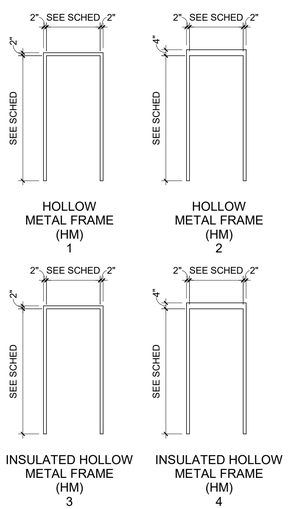
DOOR SCHEDULE - 1F AREA C

DOOR NO	DOOR						FRAME		DETAIL			FIRE RATING	HARDWARE	COMMENTS
	WIDTH	HEIGHT	THICK	TYPE	MATERIAL	GLAZING	TYPE	MATERIAL	HEAD	JAMB	SILL			
117B	3' - 0"	7' - 0"	1 3/4"	5	HM	TG	2	HM	3/A-621	4/A-621	-	SMOKE	27.0	
119	6' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	-	23.0	
121A	6' - 0"	7' - 0"	1 3/4"	7	ALUM	LGT	SF	ALUM	6/A-620	7/A-620	8/A-620	-	3.0	
121B	6' - 0"	7' - 0"	1 3/4"	7	ALUM	TG	SF	ALUM	6/A-620	7/A-620	8/A-620	SMOKE	17.0	
121C	6' - 0"	7' - 0"	1 3/4"	7	ALUM	TG	SF	ALUM	6/A-620	7/A-620	8/A-620	SMOKE	17.0	
121D	6' - 0"	7' - 0"	1 3/4"	7	ALUM	LGT	SF	ALUM	6/A-620	4/A-620	8/A-620	-	3.0	
122A	6' - 0"	7' - 0"	1 3/4"	7	ALUM	LGT	SF	ALUM	6/A-620	7/A-620	8/A-620	-	2.0	
122B	6' - 0"	7' - 0"	1 3/4"	7	ALUM	LGT	SF	ALUM	6/A-620	7/A-620	8/A-620	-	2.0	

DOOR SCHEDULE - 1F AREA D

DOOR NO	DOOR						FRAME		DETAIL			FIRE RATING	HARDWARE	COMMENTS
	WIDTH	HEIGHT	THICK	TYPE	MATERIAL	GLAZING	TYPE	MATERIAL	HEAD	JAMB	SILL			
100A	6' - 0"	8' - 0"	1 3/4"	7	ALUM	LGT	SF	ALUM	6/A-620	7/A-620	8/A-620	-	1.0	
100B	3' - 0"	7' - 0"	1 3/4"	7	ALUM	BG	SF	ALUM	7/A-621	8/A-621	8/A-620	-	19.0	LEVEL 3A BALLASTIC RATED DOOR, FRAME, AND GLAZING
101	6' - 0"	7' - 0"	1 3/4"	7	ALUM	LGT	SF	ALUM	6/A-620	4/A-620	8/A-620	-	3.0	
101A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	24.0	
101B	3' - 0"	7' - 0"	1 3/4"	7	ALUM	LGT	SF	ALUM	6/A-620	4/A-620	8/A-620		4.0	
101D	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	SMOKE	24.0	
101E	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	30.0	
101F	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	30.0	
102	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	32.0	
103	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	28.0	
104	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	27.0	
105	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	28.0	
106	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	SMOKE	24.0	
108	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	28.0	
108A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	24.0	
109	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	20.0	
109A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	24.0	
109B	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	30.0	
110	3' - 0"	7' - 0"	1 3/4"	3	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	28.0	
111	3' - 0"	7' - 0"	1 3/4"	3	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	28.0	
111A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	30.0	
112A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	32.0	
112B	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	27.0	
113A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	28.0	
113B	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	27.0	
114	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	SMOKE	25.0	
115	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	SMOKE	18.0	
116	3' - 0"	7' - 0"	1 3/4"	1	HM	-	1	HM	1/A-621	2/A-621	-	1 HR	14.0	
117A	3' - 0"	7' - 0"	1 3/4"	6	HM	LGT	4	HM	1/A-620	2/A-620	-	-	10.0	
118	4' - 0"	7' - 0"	1 3/4"	2	HM	-	4	HM	1/A-620	2/A-620	-	-	9.0	
120	6' - 0"	7' - 0"	1 3/4"	2	HM	-	4	HM	1/A-620	2/A-620	-	-	6.0	

DOOR FRAME ELEVATIONS



HOLLOW METAL FRAME (HM) 1

HOLLOW METAL FRAME (HM) 2

INSULATED HOLLOW METAL FRAME (HM) 3

INSULATED HOLLOW METAL FRAME (HM) 4

NOTE: SEE STOREFRONT/CURTAIN WALL ELEVATIONS FOR ADDITIONAL FRAME TYPES.

GLAZING LEGEND

LGT - INSULATED LOW E TINTED, LAMINATED GLASS (ATFP/BLAST/HURRICANE IMPACT)

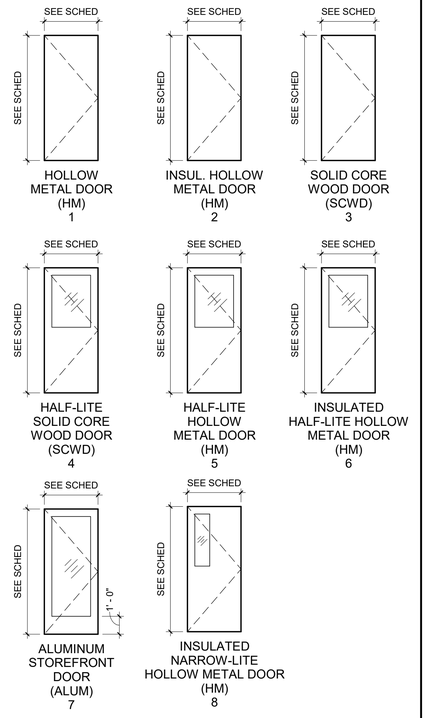
LGTFG - INSULATED LOW E TINTED, LAMINATED GLASS (ATFP/BLAST/HURRICANE IMPACT) / FIRE-RATED GLASS

BG - BALLISTICS III GLASS

TG - 1/4" THICK TEMPERED GLASS

FG - FIRE-RATED GLASS

DOOR ELEVATIONS



HOLLOW METAL DOOR (HM) 1

INSUL. HOLLOW METAL DOOR (HM) 2

SOLID CORE WOOD DOOR (SCWD) 3

HALF-LITE SOLID CORE WOOD DOOR (SCWD) 4

HALF-LITE HOLLOW METAL DOOR (HM) 5

INSULATED HALF-LITE HOLLOW METAL DOOR (HM) 6

ALUMINUM STOREFRONT DOOR (ALUM) 7

INSULATED NARROW-LITE HOLLOW METAL DOOR (HM) 8

INSUL. OVER HEAD COILING DOOR (OHCD) 9

Jacobs | TITAN TECHNOLOGIES

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312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY · SCHOOL DISTRICT ·

Seal:

STATE OF FLORIDA · ROBERT ALLEN HEFFERNAN · 10/10/2024 · NO. 9262 · REGISTERED ARCHITECT

Project No.: 83X98735

Drawing Title:
DOOR SCHEDULE

Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

Drawing No.: A-602

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

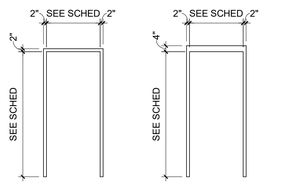
DOOR SCHEDULE - 2F AREA A

DOOR NO	DOOR						FRAME		DETAIL			FIRE RATING	HARDWARE	COMMENTS
	WIDTH	HEIGHT	THICK	TYPE	MATERIAL	GLAZING	TYPE	MATERIAL	HEAD	JAMB	SILL			
191C	6' - 0"	7' - 0"	1 3/4"	5	HM	FG	2	HM	9/A-621	4/A-621	-	1 HR	12.0	
229	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
230A	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
230B	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
231A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
231B	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
232	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
234	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
235	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
236	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
237	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
238A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
238B	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
239A	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
239B	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
240	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
241	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
242	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
243A	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
243B	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
244A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
244B	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
245	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
246	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
247	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
248	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
249	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
250A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
250B	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
251A	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
251B	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
252	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
253	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
254	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
257	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
258	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
259	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
260	6' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	13.0	
261	6' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	13.0	
262	8' - 0"	7' - 0"	1 3/4"	5	HM	TG	2	HM	5/A-621	6/A-621	-	SMOKE BARRIER	11.0	
M14	3' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	15.0	
M15	3' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	15.0	
M16	3' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	15.0	
M17	3' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	15.0	

DOOR SCHEDULE - 2F AREA B

DOOR NO	DOOR						FRAME		DETAIL			FIRE RATING	HARDWARE	COMMENTS
	WIDTH	HEIGHT	THICK	TYPE	MATERIAL	GLAZING	TYPE	MATERIAL	HEAD	JAMB	SILL			
125C	6' - 0"	7' - 0"	1 3/4"	5	HM	-	2	HM	3/A-621	4/A-621	-	1 HR	12.0	
200	8' - 0"	7' - 0"	1 3/4"	5	HM	TG	2	HM	5/A-621	6/A-621	-	SMOKE BARRIER	11.0	
201	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
202A	6' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	13.0	
202B	3' - 0"	7' - 0"	1 3/4"	3	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	18.0	
203	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
204	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
205A	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
205B	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
206A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
206B	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
207	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
208	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
209	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
210	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
211A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
211B	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	22.0	
212A	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
212B	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
213	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
214	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
215	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
216	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
217	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
218	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	2	HM	3/A-621	4/A-621	-	SMOKE	21.0	
219	3' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	18.0	
221	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	2	HM	3/A-621	4/A-621	-	SMOKE	29.0	
222	3' - 0"	7' - 0"	1 3/4"	8	SCWD	TG	1	HM	1/A-621	2/A-621	-	-	26.0	
223	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	1	HM	1/A-621	2/A-621	-	-	31.0	
224	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	2	HM	3/A-621	4/A-621	-	SMOKE	25.0	
226	3' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	14.0	
227	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	2	HM	1/A-620 SIM	2/A-620 SIM	-	SMOKE	24.0	
228	6' - 0"	7' - 0"	1 3/4"	7	ALUM	TG	SF	ALUM	-	7/A-620	8/A-620	SMOKE BARRIER	29.0	
228A	3' - 0"	7' - 0"	1 3/4"	3	SCWD	-	2	HM	5/A-621	6/A-621	-	SMOKE	29.0	
M10	3' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	15.0	
M11	3' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	15.0	
M12	3' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	26.0	
M13	3' - 0"	7' - 0"	1 3/4"	1	HM	-	2	HM	3/A-621	4/A-621	-	SMOKE	24.0	

DOOR FRAME ELEVATIONS



NOTE: SEE STOREFRONT/CURTAIN WALL ELEVATIONS FOR ADDITIONAL FRAME TYPES.

GLAZING LEGEND

LGT - INSULATED LOW E TINTED, LAMINATED GLASS (ATFP/BLAST/HURRICANE IMPACT)

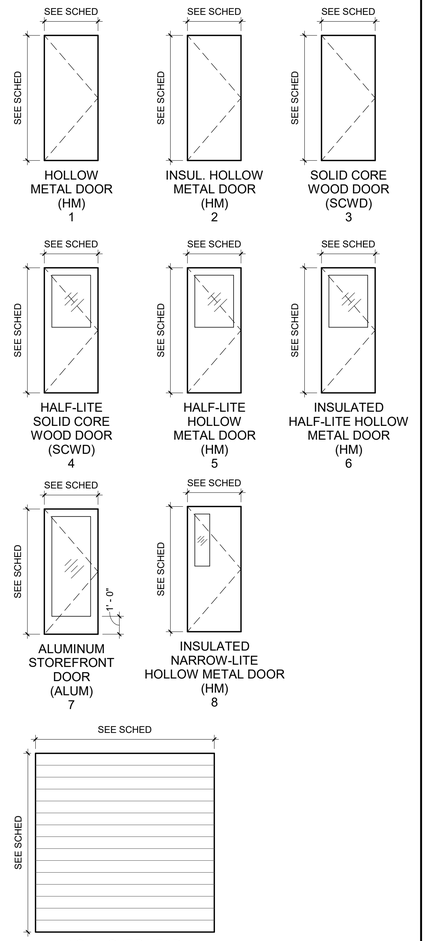
LGTFG - INSULATED LOW E TINTED, LAMINATED GLASS (ATFP/BLAST/HURRICANE IMPACT) / FIRE-RATED GLASS

BG - BALLISTICS III GLASS

TG - 1/4" THICK TEMPERED GLASS

FG - FIRE-RATED GLASS

DOOR ELEVATIONS



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Florida Lic. No. C001942

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Date:	By:	Description:

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3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

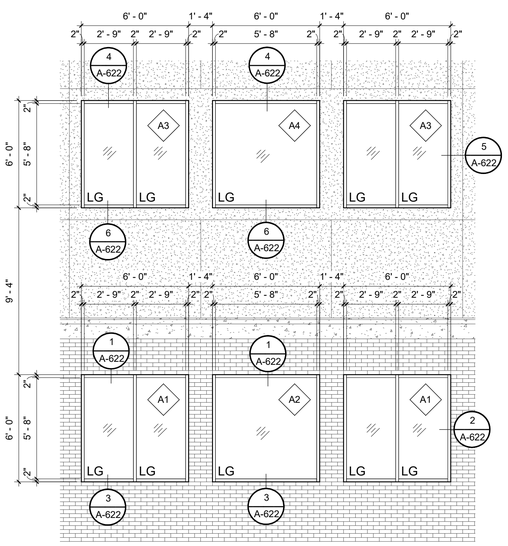
Project No.: 83X98735

Drawing Title:
DOOR SCHEDULE

Date: 10 October 2024

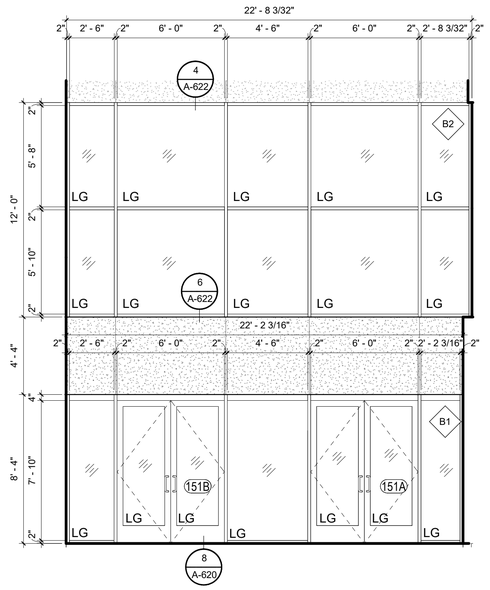
Designed By: Designer
Drawn By: Author
Checked By: Checker

Drawing No.: A-603

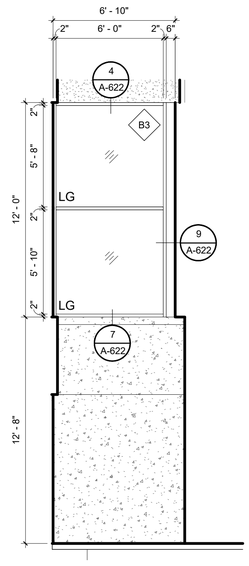


NOTE: A5 SIM TO A1, A6 SIM TO A2

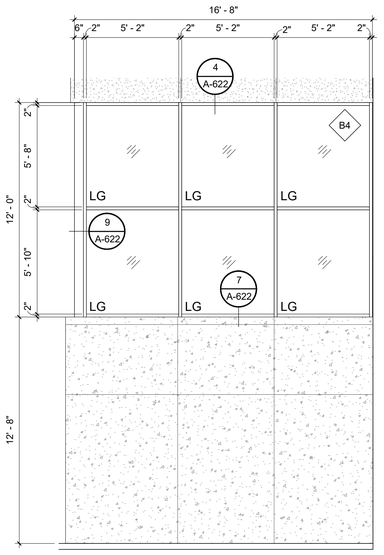
1 A-610 **TYPICAL STOREFRONT ELEVATION**
1/4" = 1'-0"



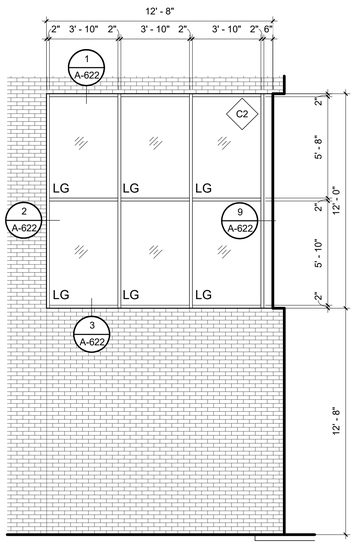
3 A-610 **STOREFRONT ELEVATION**
1/4" = 1'-0"



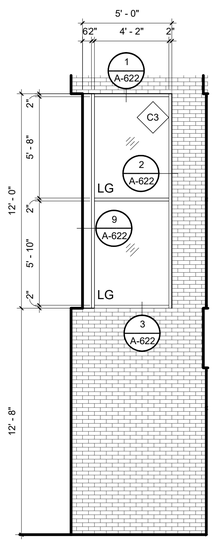
5 A-610 **STOREFRONT ELEVATION**
1/4" = 1'-0"



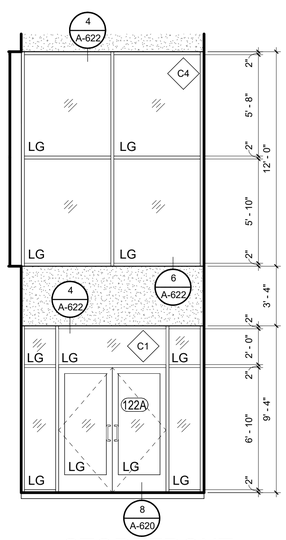
4 A-610 **STOREFRONT ELEVATION**
1/4" = 1'-0"



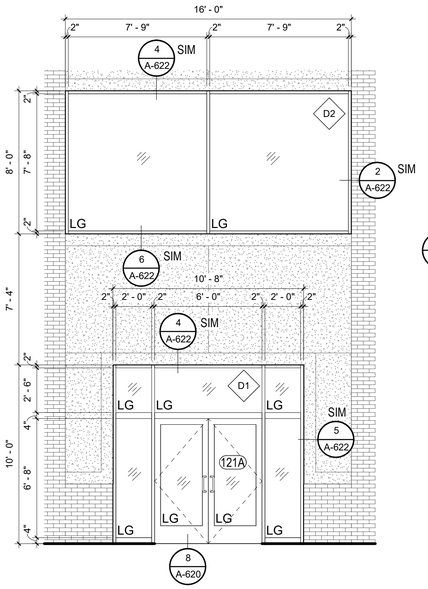
11 A-610 **STOREFRONT ELEVATION**
1/4" = 1'-0"



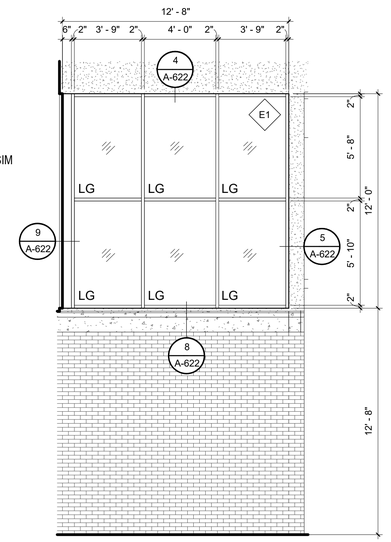
12 A-610 **STOREFRONT ELEVATION**
1/4" = 1'-0"



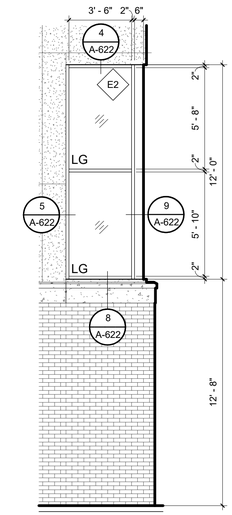
13 A-610 **STOREFRONT ELEVATION**
1/4" = 1'-0"



2 A-610 **STOREFRONT ELEVATION**
1/4" = 1'-0"



6 A-610 **STOREFRONT ELEVATION**
1/4" = 1'-0"



7 A-610 **STOREFRONT ELEVATION**
1/4" = 1'-0"

0" 2' - 0" 4' - 0" 8' - 0"
SCALE:1/4" = 1'-0"

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Florida Lic. No. C001942

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3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

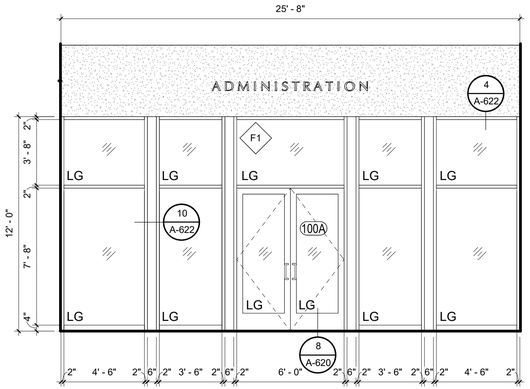
Project No.: 83X98735

Drawing Title:
STOREFRONT ELEVATIONS

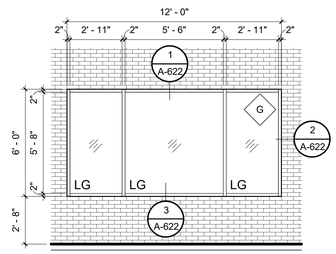
Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

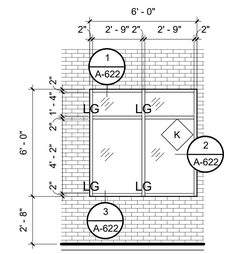
Drawing No.:
A-610



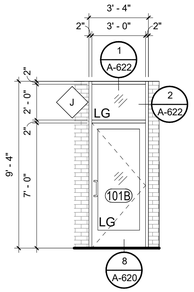
1 A-611 **STOREFRONT ELEVATION**
1/4" = 1'-0"



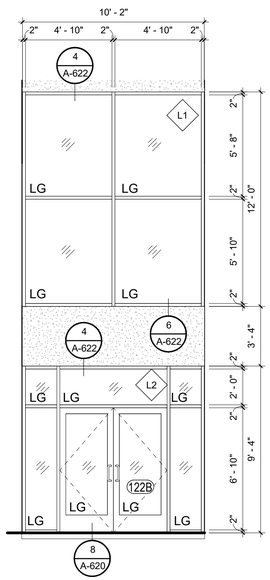
2 A-611 **STOREFRONT ELEVATION**
1/4" = 1'-0"



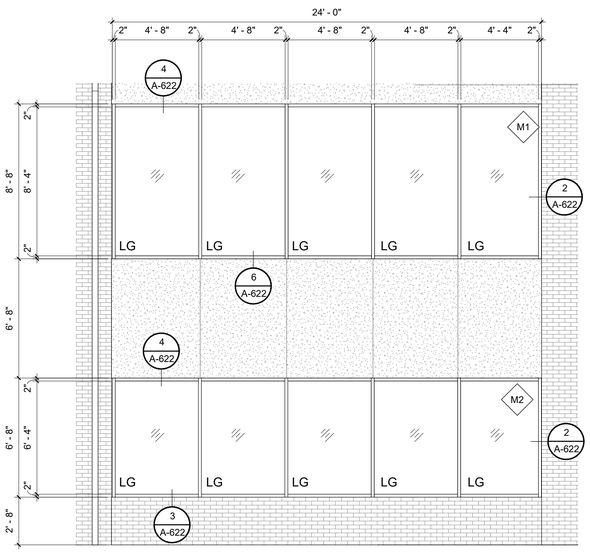
3 A-611 **STOREFRONT ELEVATION**
1/4" = 1'-0"



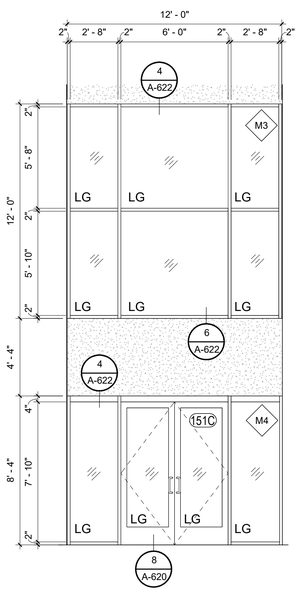
12 A-611 **STOREFRONT ELEVATION**
1/4" = 1'-0"



5 A-611 **STOREFRONT ELEVATION**
1/4" = 1'-0"



6 A-611 **STOREFRONT ELEVATION**
1/4" = 1'-0"



7 A-611 **STOREFRONT ELEVATION**
1/4" = 1'-0"

0" 2' - 0" 4' - 0" 8' - 0"
SCALE:1/4" = 1'-0"

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Florida Lic. No. C001942

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Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY • SCHOOL DISTRICT •

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

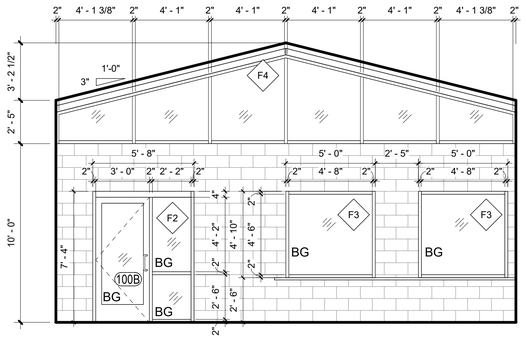
Project No.: 83X98735

Drawing Title:
STOREFRONT ELEVATIONS

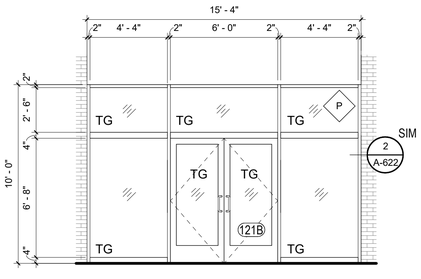
Date: 10 October 2024

Designed By: RH
Drawn By: KW
Checked By: RH

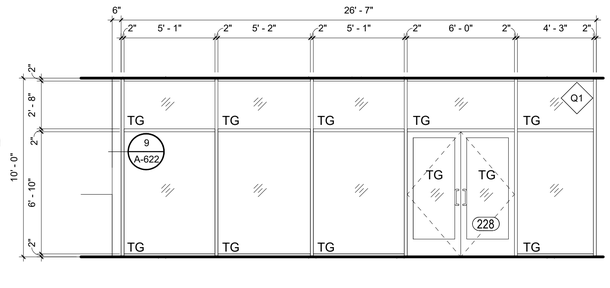
Drawing No.: A-611



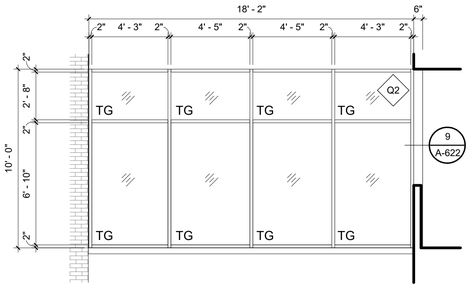
1 A-612 STOREFRONT ELEVATION
1/4" = 1'-0"



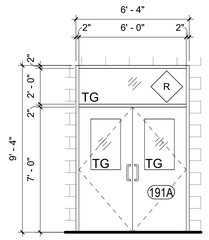
2 A-612 STOREFRONT ELEVATION
1/4" = 1'-0"



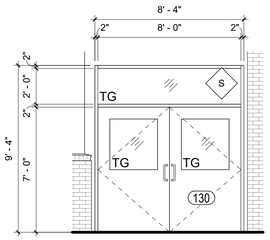
9 A-612 STOREFRONT ELEVATION
1/4" = 1'-0"



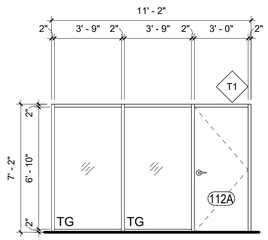
10 A-612 STOREFRONT ELEVATION
1/4" = 1'-0"



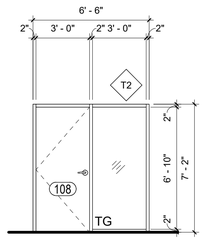
3 A-612 STOREFRONT ELEVATION
1/4" = 1'-0"



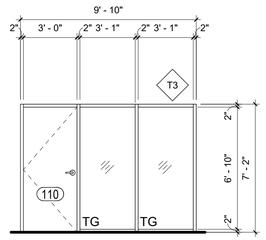
8 A-612 STOREFRONT ELEVATION
1/4" = 1'-0"



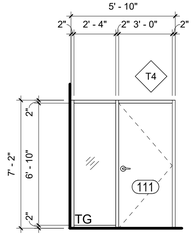
6 A-612 STOREFRONT ELEVATION
1/4" = 1'-0"



7 A-612 STOREFRONT ELEVATION
1/4" = 1'-0"



4 A-612 STOREFRONT ELEVATION
1/4" = 1'-0"



5 A-612 STOREFRONT ELEVATION
1/4" = 1'-0"

0" 2' - 0" 4' - 0" 8' - 0"
SCALE:1/4" = 1'-0"

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ROBERT ALLEN HEFFERNAN
10/15/2024
NO. 9262
REGISTERED ARCHITECT

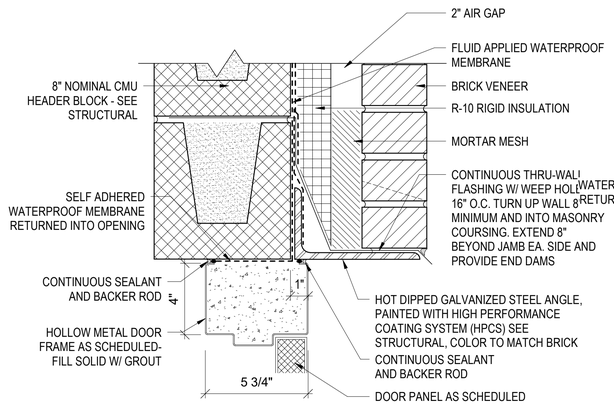
Project No.: 83X98735

Drawing Title:
STOREFRONT ELEVATIONS

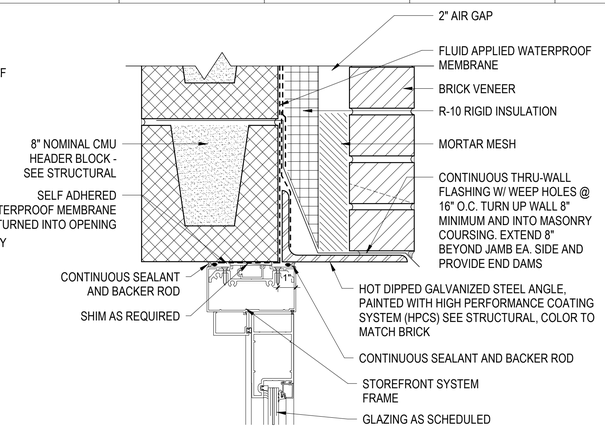
Date: 10 October 2024

Designed By: Designer
Drawn By: Author
Checked By: Checker

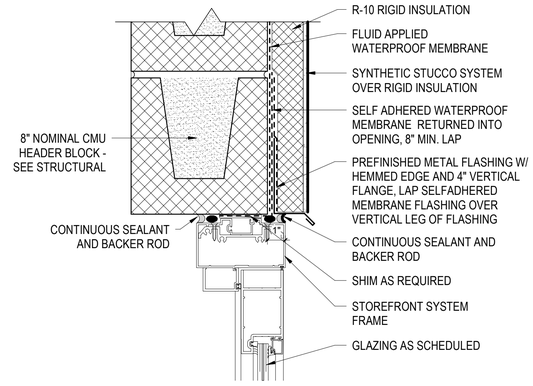
Drawing No.: A-612



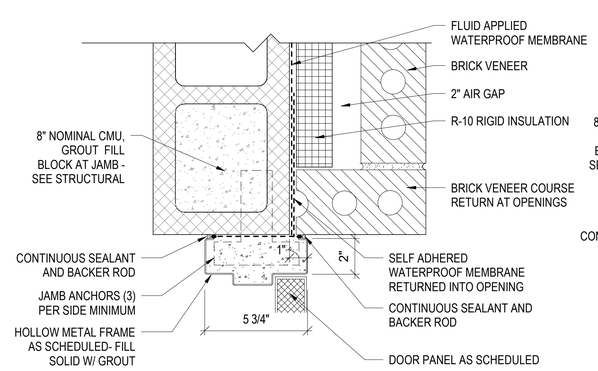
1 A-620 EXT. H.M. HEAD DETAIL AT BRICK
3" = 1'-0"



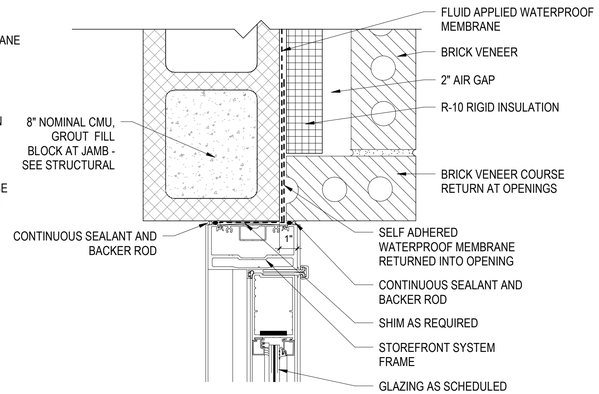
3 A-620 EXT. SF HEAD DETAIL AT BRICK
3" = 1'-0"



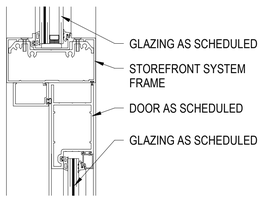
5 A-620 EXT. SF HEAD DETAIL AT STUCCO
3" = 1'-0"



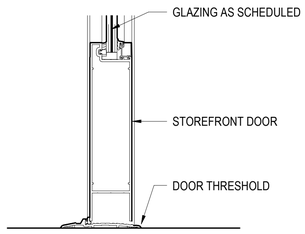
2 A-620 EXT. H.M. JAMB DETAIL AT BRICK
3" = 1'-0"



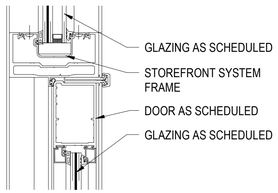
4 A-620 EXT. SF JAMB DETAIL AT BRICK
3" = 1'-0"



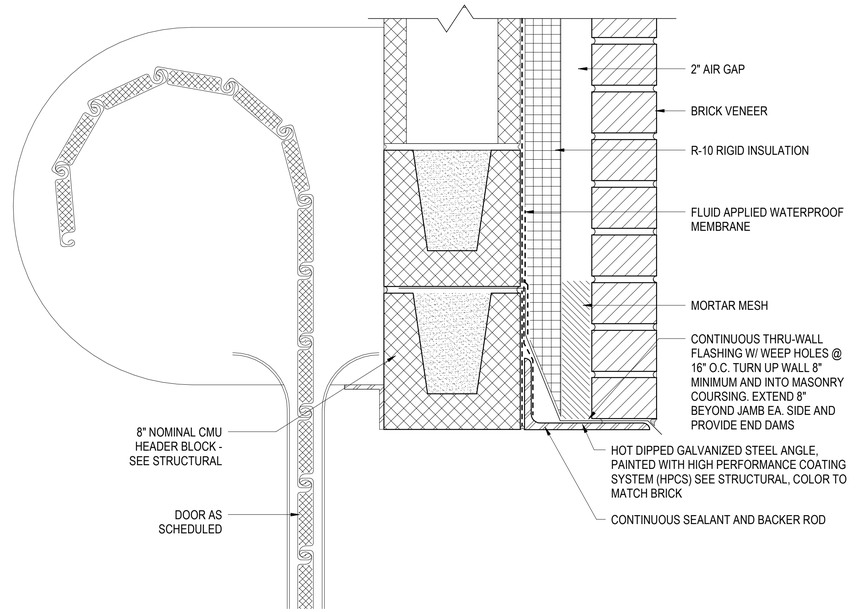
6 A-620 SF DOOR HEAD AT TRANSOM DETAIL
3" = 1'-0"



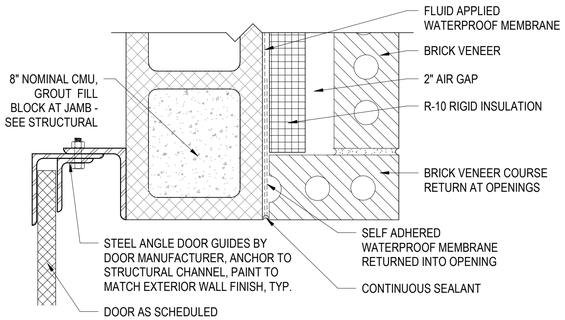
8 A-620 SF SILL DETAIL
3" = 1'-0"



7 A-620 SF DOOR JAMB AT SIDELITE DETAIL
3" = 1'-0"



9 A-620 EXT. OHCD HEAD DETAIL AT BRICK
3" = 1'-0"



10 A-620 EXT. OHCD JAMB DETAIL AT BRICK
3" = 1'-0"

0" 2" 4" 8"
SCALE:3" = 1'-0"

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4008 Legendary Drive Suite 600 Destin, FL 32541

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312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
STATE OF FLORIDA
DONALD ALLEN MCCARTHY
10/10/2024
NO. 9262
REGISTERED ARCHITECT

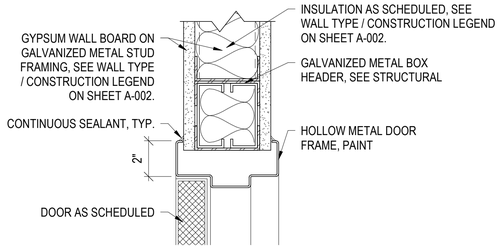
Project No.: 83X98735

Drawing Title:
DOOR DETAILS

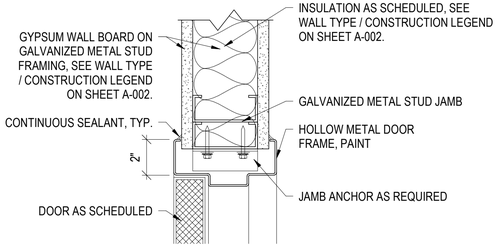
Date: 10 October 2024

Designed By: Designer
Drawn By: Author
Checked By: Checker

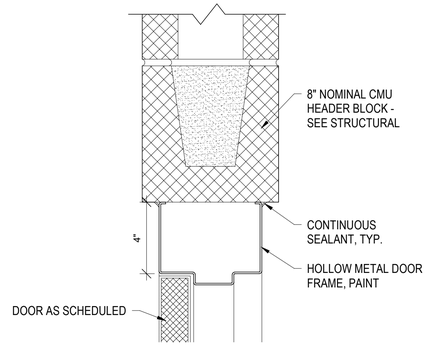
Drawing No.: A-620



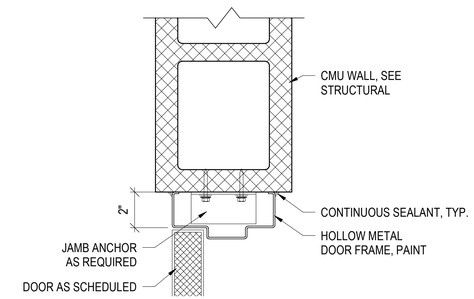
1 A-621 INTERIOR DOOR HEAD DETAIL
3" = 1'-0"



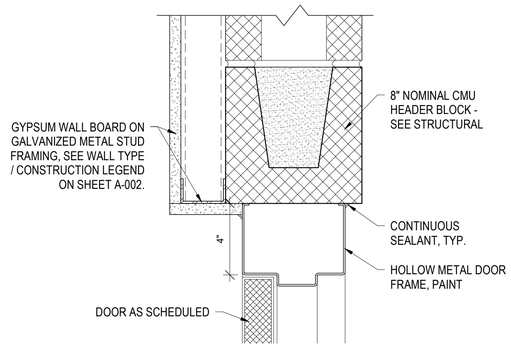
2 A-621 INTERIOR DOOR JAMB DETAIL
3" = 1'-0"



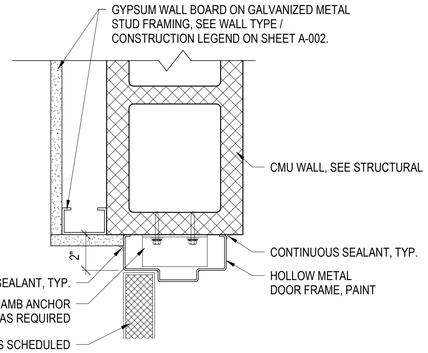
3 A-621 INTERIOR CMU DOOR HEAD DETAIL
3" = 1'-0"



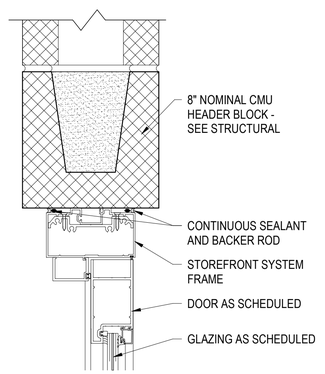
4 A-621 INTERIOR CMU DOOR JAMB DETAIL
3" = 1'-0"



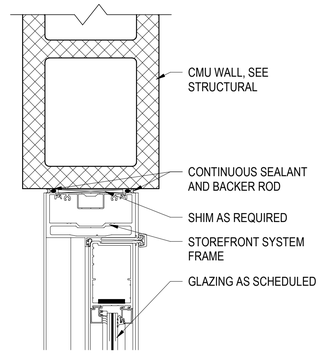
5 A-621 INTERIOR CMU DOOR HEAD DETAIL
3" = 1'-0"



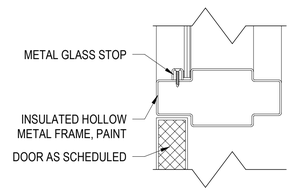
6 A-621 INTERIOR CMU DOOR JAMB DETAIL
3" = 1'-0"



7 A-621 INTERIOR CMU SF DOOR HEAD DETAIL
3" = 1'-0"



8 A-621 INTERIOR CMU SF DOOR JAMB DETAIL
3" = 1'-0"



9 A-621 INTERIOR WINDOW/DOOR HEAD DETAIL
3" = 1'-0"

0" 2" 4" 8"
SCALE:3" = 1'-0"

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
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Destin, Florida
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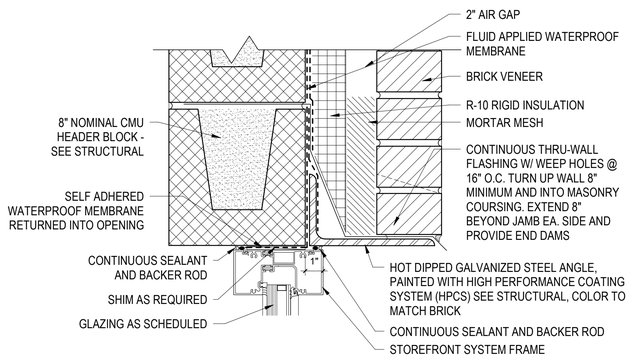
Okaloosa County, Florida

OKALOOSA COUNTY · SCHOOL DISTRICT ·

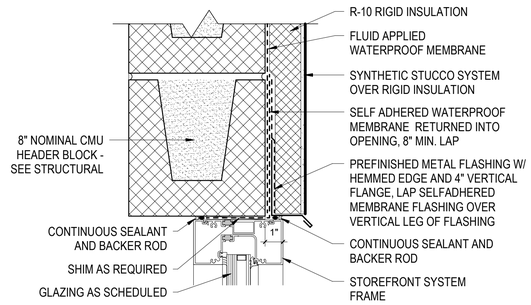
Seal:
STATE OF FLORIDA
DONALD ALLEN MCCARTHY
10/15/2024
NO. 9262
REGISTERED ARCHITECT

Project No.: 83X98735
Drawing Title:
DOOR DETAILS

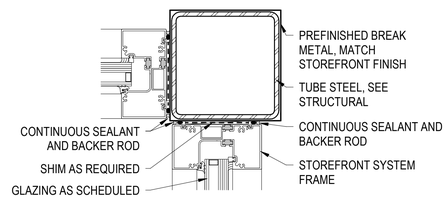
Date: 10 October 2024
Designed By: Designer
Drawn By: Author
Checked By: Checker
Drawing No.: A-621



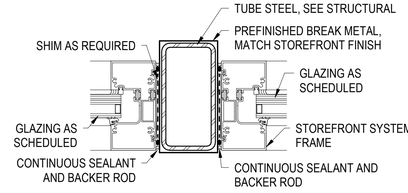
1 A-622 SF WINDOW HEAD AT BRICK DETAIL
3" = 1'-0"



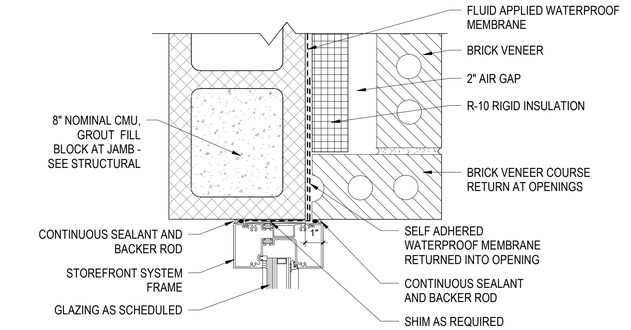
4 A-622 SF WINDOW HEAD AT STUCCO DETAIL
3" = 1'-0"



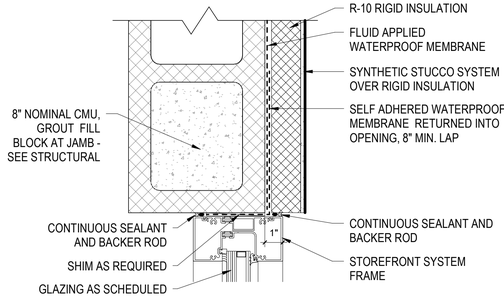
9 A-622 SF WINDOW JAMB AT COLUMN CORNER DETAIL
3" = 1'-0"



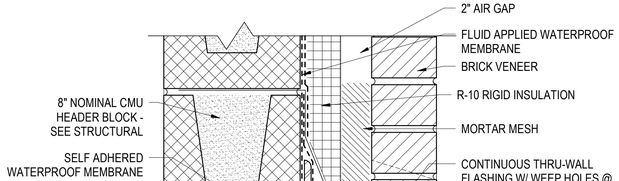
10 A-622 SF WINDOW JAMB AT COLUMN DETAIL
3" = 1'-0"



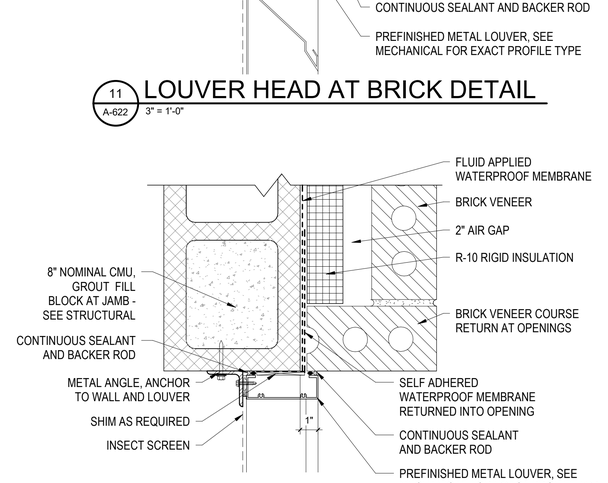
2 A-622 SF WINDOW JAMB AT BRICK DETAIL
3" = 1'-0"



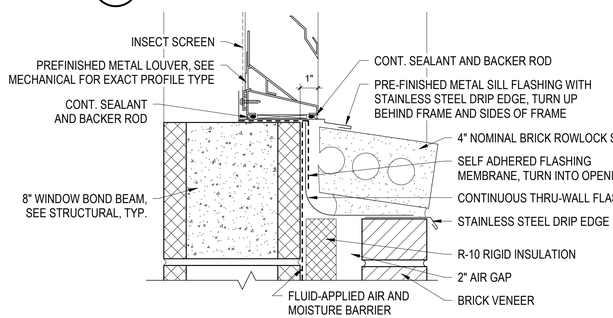
5 A-622 SF WINDOW JAMB AT STUCCO DETAIL
3" = 1'-0"



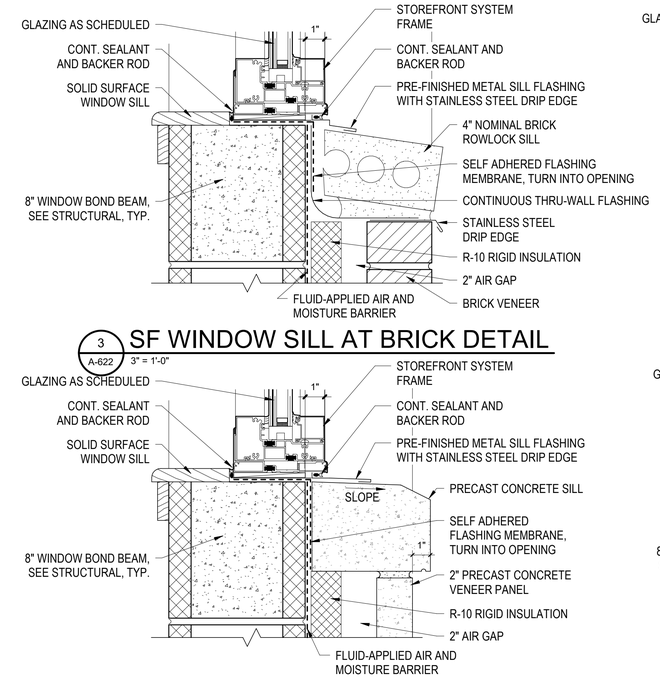
11 A-622 LOUVER HEAD AT BRICK DETAIL
3" = 1'-0"



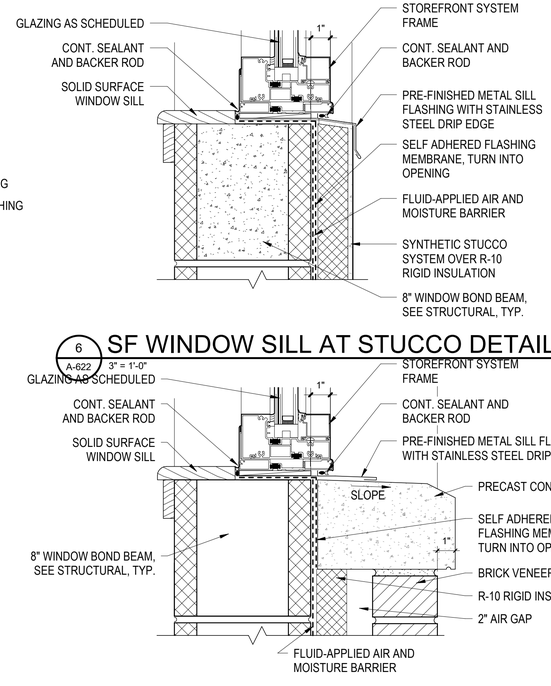
12 A-622 LOUVER JAMB AT BRICK DETAIL
3" = 1'-0"



13 A-622 LOUVER SILL AT BRICK DETAIL
3" = 1'-0"



3 A-622 SF WINDOW SILL AT BRICK DETAIL
3" = 1'-0"



6 A-622 SF WINDOW SILL AT STUCCO DETAIL
3" = 1'-0"

7 A-622 SF WINDOW SILL AT PRECAST PANEL DETAIL
3" = 1'-0"

8 A-622 SF WINDOW SILL AT PRECAST PANEL & BRICK DETAIL
3" = 1'-0"

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SCALE:3" = 1'-0"

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Heffernan Holland Morgan Architecture, P.A.
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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

STATE OF FLORIDA
ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

Donald J McCarthy

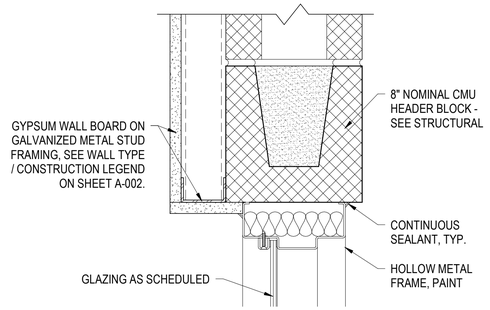
Project No.: 83X98735

Drawing Title:
OPENING DETAILS

Date: 10 October 2024

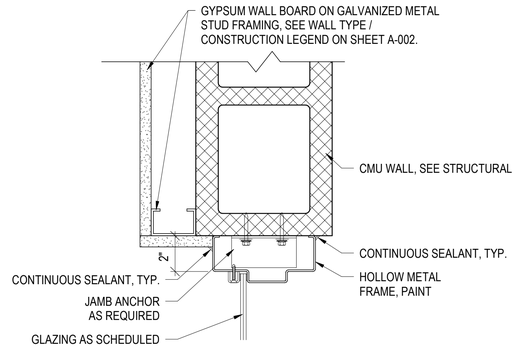
Designed By: Designer
Drawn By: Author
Checked By: Checker

Drawing No.: A-622



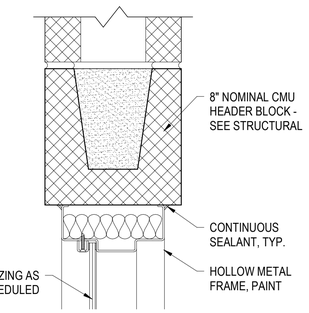
1 A-623 INTERIOR CMU TRANSOM WINDOW HEAD DETAIL

3" = 1'-0"



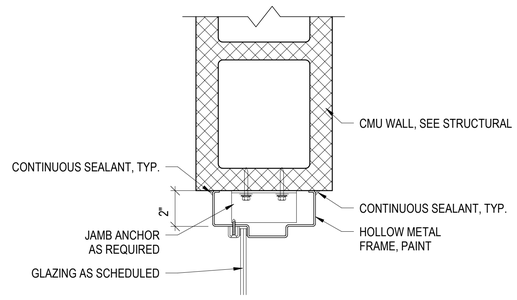
2 A-623 INTERIOR CMU TRANSOM WINDOW JAMB DETAIL

3" = 1'-0"



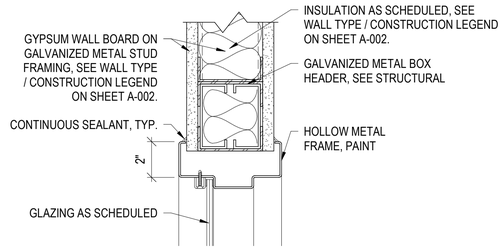
3 A-623 INTERIOR CMU TRANSOM WINDOW HEAD DETAIL

3" = 1'-0"



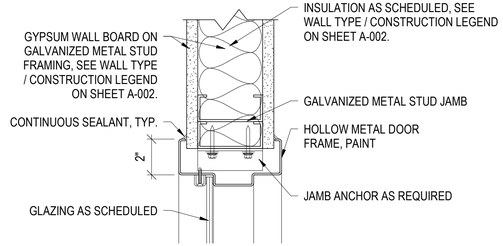
4 A-623 INTERIOR CMU TRANSOM WINDOW JAMB DETAIL

3" = 1'-0"



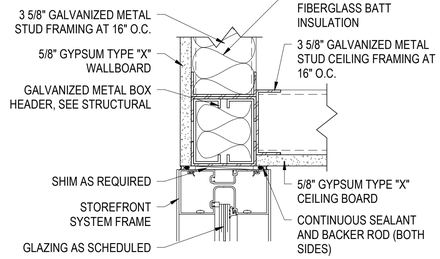
5 A-623 INTERIOR HM WINDOW HEAD DETAIL

3" = 1'-0"



6 A-623 INTERIOR HM WINDOW JAMB DETAIL

3" = 1'-0"



7 A-623 INTERIOR SF WINDOW HEAD DETAIL

3" = 1'-0"

0" 2" 4" 8"

SCALE:3" = 1'-0"

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ROBERT ALLEN HEFFERNAN
10/10/2024
NO. 9262
REGISTERED ARCHITECT

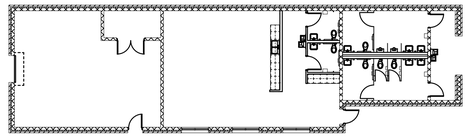
Project No.: 83X98735

Drawing Title:
OPENING DETAILS

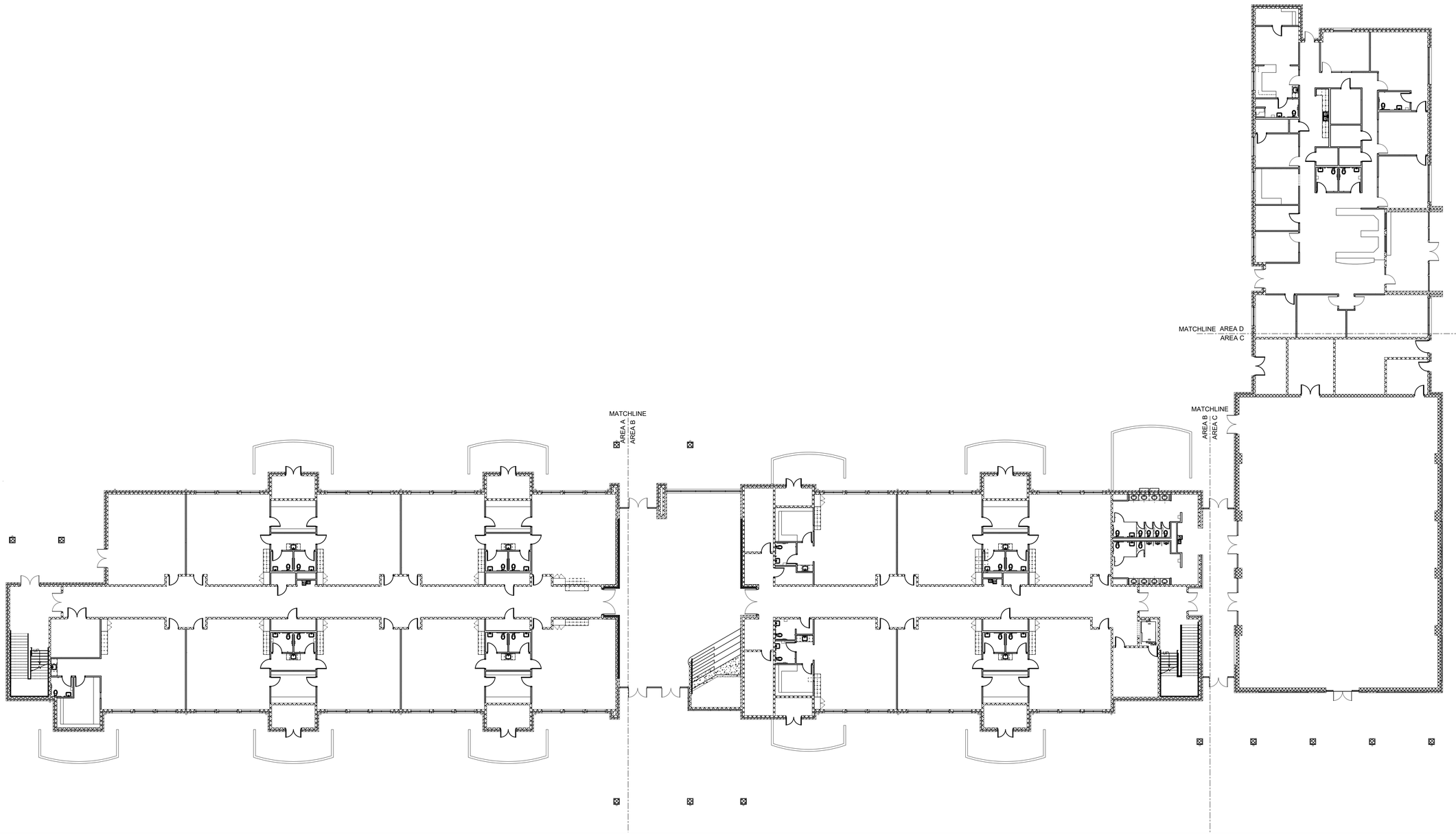
Date: 10 October 2024

Designed By: Designer
Drawn By: Author
Checked By: Checker

Drawing No.: A-623



TEACHER LOUNGE PLAN



OVERALL FIRST FLOOR PLAN

SCALE: 1/16" = 1'-0"

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Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
JAN SIMPSON
Digitally signed by JAN SIMPSON
DN: CN=Jan Simpson, O=Jan Simpson, OU=Jan Simpson, E=jsimpson@jsimpson.com
Reason: I am the author of this document
Location:
Date: 2024.10.10 09:10:00-06'00'
Foxit PDF Editor Version: 12.0.0

STATE OF FLORIDA
JAN B. SIMPSON
100003599
10 OCTOBER 2024
LICENSED INTERIOR DESIGNER

Project No.: 83X98735

Drawing Title:

OVERALL FIRST FLOOR PLAN

Date: 10 OCTOBER 2024

Designed By: RH
Drawn By: JBS
Checked By: RH

Drawing No.: I-100

GENERAL NOTES

1. FOR EXTENTS OF CEILING FINISHES, SEE RCP IN ARCHITECTURAL
2. ALL COUNTERTOPS IN WET AREAS TO BE SOLID SURFACE (SS-1) WITH INTEGRAL BOWL.
3. ALL COUNTERTOPS IN NON-WET AREAS, TO BE PL-2.
4. ALL BASE CABINETRY TO BE PL-1. WALL CABINETS TO BE PL 3-5. SEE MILLWORK ELEVATIONS IN ARCHITECTURAL FOR PLACEMENT.
5. ALL TOILETS TO HAVE CWT FULL HEIGHT ALL WALLS. SEE SHEET I-605 FOR TYPICAL ELEVATION.
6. FOR FLOOR PATTERNS, SEE SHEET I-605.
7. SEE SHEET I-601 FOR FINISH SCHEDULE AND ADDITIONAL PRODUCT SPECIFICATIONS.
8. WALLS OPPOSITE SINK & CABINET IN CLASSROOM VESTIBULES TO BE PAINTED PT-2, WHERE INDICATED.
9. WALLS AT RECESSED ENTRY TO EACH CLASSROOM TO BE PAINTED PT-4 - TYPICAL.
10. WALL BEHIND EWC TO BE CWT-2-INSTALLED IN BRICK PATTERN, ABOVE BASE TO HEIGHT OF DOOR FRAMES.

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILES
AP	ACOUSTICAL PANELS
CWT	CERAMIC WALL TILE
EQF	EPOXY QUARTZ FLOORING
EQB	EPOXY QUARTZ BASE
EXPOSED	EXPOSED TO ABOVE
GLASS	GLASS-1 WALL OR ENTRY
LVT	LUXURY VINYL TILE
MAT	WALL MATS
MRGYP	MOISTURE RESISTANT GYP BOARD
OTS	OPEN TO STRUCTURE
PL	PLASTIC LAMINATE
PT	PAINT
RB	RUBBER BASE
RS	ROLLER SHADES
RT	RUBBER TILE
SC	SEALED CONCRETE
SDT	STATIC DISSIPATIVE TILE
SPF	SEAMLESS POURED FLOORING
SS	SOLID SURFACE
ST	STAIR TREAD
SWPS	SIMULATED WOOD PANEL SYSTEM
VARIES	MULTIPLE FINISHES SEE RCP

LEGEND

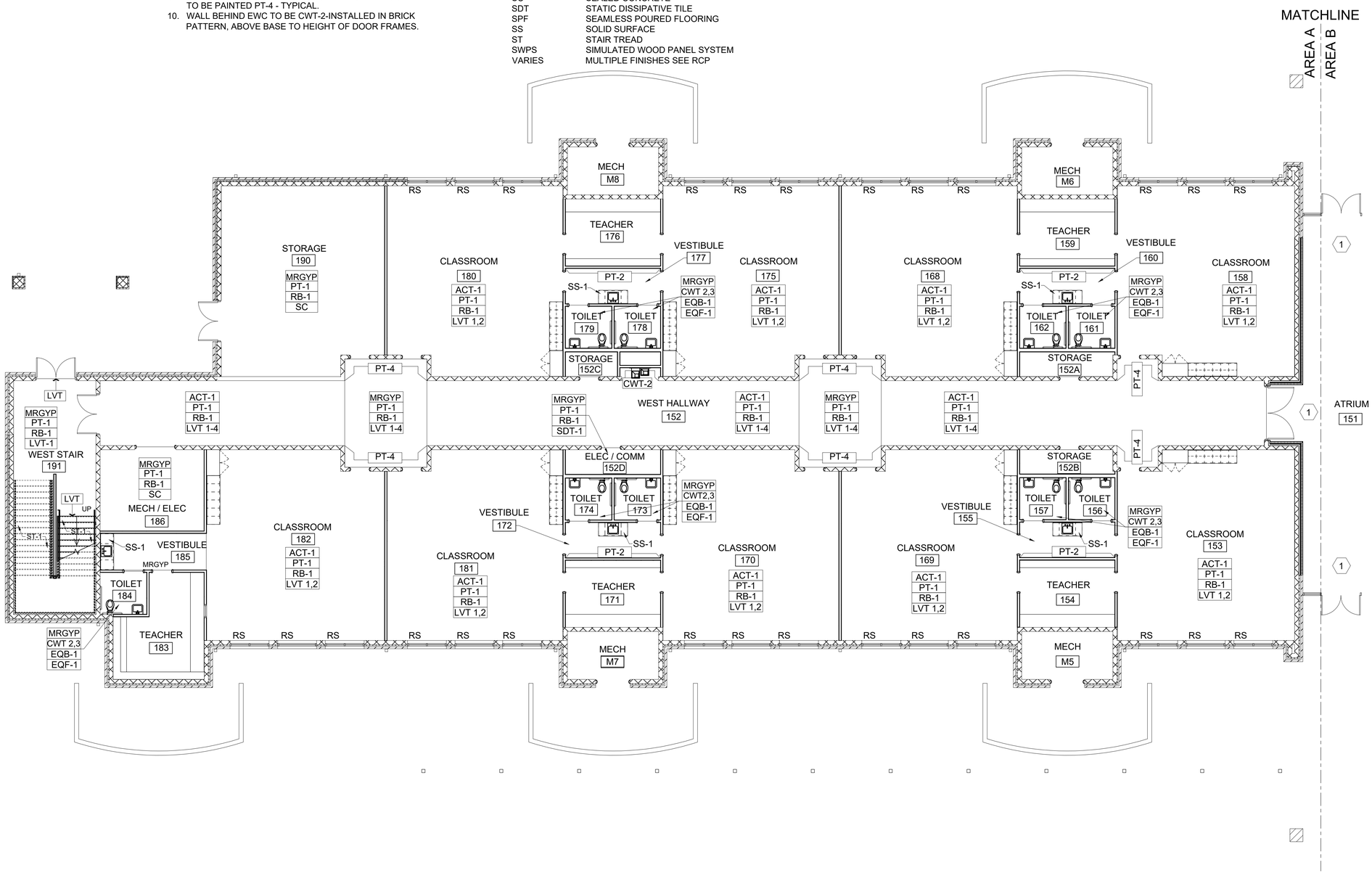
ACT-1
PT-1
RB-1
LVT 1,2

ROOM FINISHES:
CEILING
WALLS
BASE
FLOORING

PT-2 — EXTENT OF ACCENT WALL FINISH

KEYNOTES

1. ACOUSTICAL PANELS (AP-1) TO BE INSTALLED IN VARIOUS LOCATIONS INCLUDING ATRIUM, MULTIPURPOSE ROOM AND HALLWAY 122. SEE AV PACKAGE SHEETS AV-300 THROUGH AV-303 FOR LOCATION AND SIZES OF UNITS.



FINISH PLAN FIRST FLOOR - AREA A

SCALE: 1/8"=1'-0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

Jacobs | TITAN TECHNOLOGIES

4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

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Foxit PDF Editor Version: 13.0.0

STATE OF FLORIDA
JAN B. SIMPSON
100003599
10 OCTOBER 2024
LICENSED INTERIOR DESIGNER

Project No.: 83X98735

Drawing Title:

FINISH PLAN FIRST FLOOR - AREA A

Date: 10 OCTOBER 2024

Designed By: RH
Drawn By: JBS
Checked By: RH

Drawing No.: I-101

GENERAL NOTES

1. FOR EXTENTS OF CEILING FINISHES, SEE RCP IN ARCHITECTURAL
2. ALL COUNTERTOPS IN WET AREAS TO BE SOLID SURFACE (SS-1) WITH INTEGRAL BOWL.
3. ALL COUNTERTOPS IN NON-WET AREAS, TO BE PL-2.
4. ALL BASE CABINETRY TO BE PL-1. WALL CABINETS TO BE PL 3-5. SEE MILLWORK ELEVATIONS IN ARCHITECTURAL FOR PLACEMENT.
5. ALL TOILETS TO HAVE CWT FULL HEIGHT ALL WALLS. SEE SHEET I-605 FOR TYPICAL ELEVATION.
6. FOR FLOOR PATTERNS, SEE SHEET I-605.
7. SEE SHEET I-601 FOR FINISH SCHEDULE AND ADDITIONAL PRODUCT SPECIFICATIONS.
8. WALLS OPPOSITE SINK & CABINET IN CLASSROOM VESTIBULES TO BE PAINTED PT-2, WHERE INDICATED.
9. WALLS AT RECESSED ENTRY TO EACH CLASSROOM TO BE PAINTED PT-4 - TYPICAL.
10. WALL BEHIND EWC TO BE CWT-2-INSTALLED IN BRICK PATTERN, ABOVE BASE TO HEIGHT OF DOOR FRAMES.

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILES
AP	ACOUSTICAL PANELS
CWT	CERAMIC WALL TILE
EQF	EPOXY QUARTZ FLOORING
EQB	EPOXY QUARTZ BASE
EXPOSED	EXPOSED TO ABOVE
GLASS	GLASS-1 WALL OR ENTRY
LVT	LUXURY VINYL TILE
MAT	WALL MATS
MRGYP	MOISTURE RESISTANT GYP BOARD
OTS	OPEN TO STRUCTURE
PL	PLASTIC LAMINATE
PT	PAINT
RB	RUBBER BASE
RS	ROLLER SHADES
RT	RUBBER TILE
SC	SEALED CONCRETE
SDT	STATIC DISSIPATIVE TILE
SPF	SEAMLESS POURED FLOORING
SS	SOLID SURFACE
ST	STAIR TREAD
SWPS	SIMULATED WOOD PANEL SYSTEM
VARIES	MULTIPLE FINISHES SEE RCP

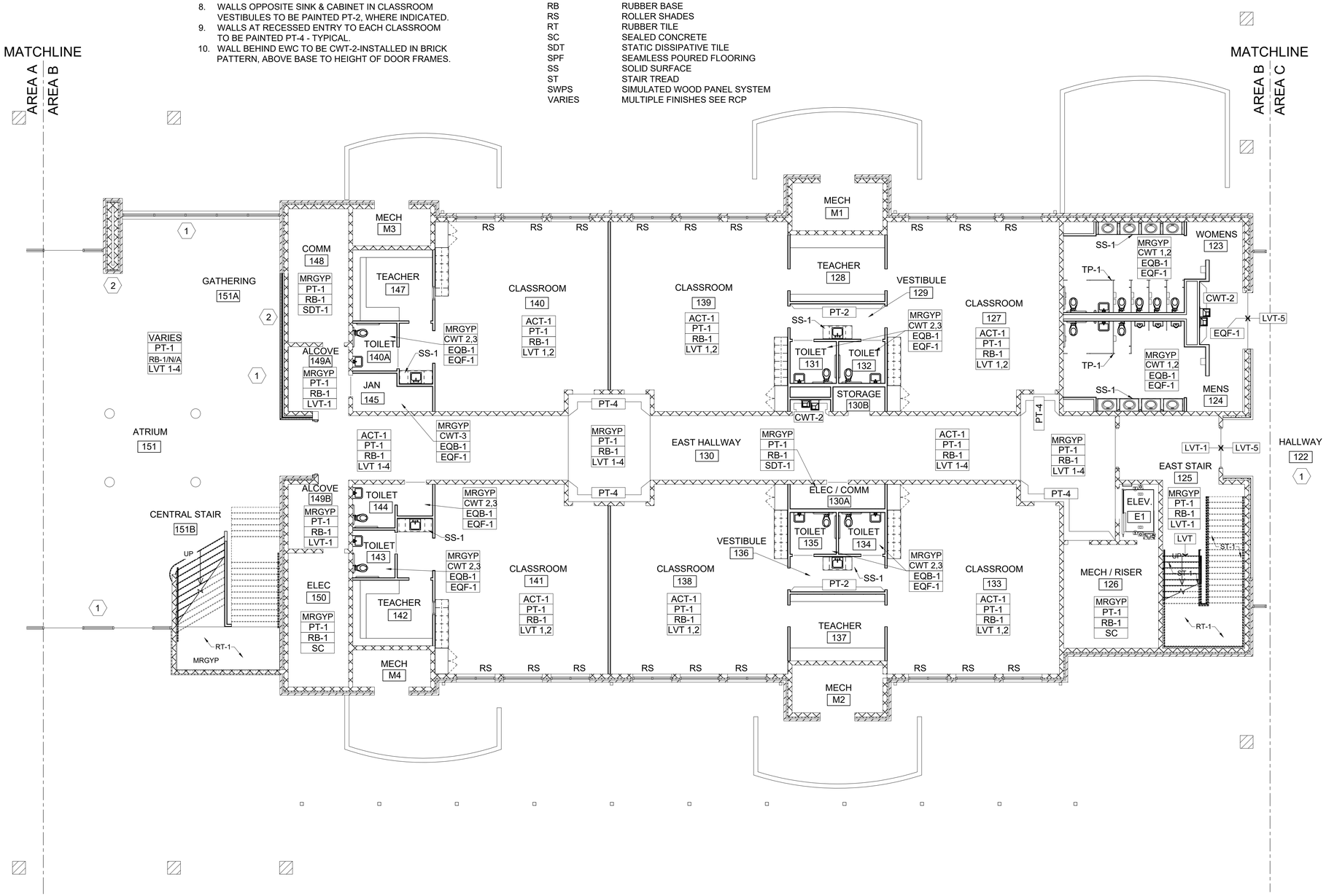
LEGEND

ACT-1	ROOM FINISHES:
PT-1	CEILING
RB-1	WALLS
LVT 1,2	BASE
	FLOORING

PT-2 — EXTENT OF ACCENT WALL FINISH

KEYNOTES

1. ACOUSTICAL PANELS (AP-1) TO BE INSTALLED IN VARIOUS LOCATIONS INCLUDING ATRIUM, MULTIPURPOSE ROOM AND HALLWAY 122. SEE AV PACKAGE SHEETS AV-300 THROUGH AV-303 FOR LOCATION AND SIZES OF UNITS.
2. WHERE BRICK WALLS MEETS LVT FLOORING, DO NOT USE RUBBER BASE.



FINISH PLAN FIRST FLOOR- AREA B

SCALE: 1/8"=1'-0"

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

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STATE OF FLORIDA
JAN B. SIMPSON
100003599
10 OCTOBER 2024
LICENSED INTERIOR DESIGNER

Project No.: 83X98735

Drawing Title:
FINISH PLAN FIRST FLOOR - AREA B

Date: 10 OCTOBER 2024

Designed By: RH
Drawn By: JBS
Checked By: RH

Drawing No.: I-102

KEYNOTES

1. ACOUSTICAL PANELS (AP-1) TO BE INSTALLED IN VARIOUS LOCATIONS INCLUDING ATRIUM, MULTIPURPOSE ROOM AND HALLWAY 122. SEE AV PACKAGE SHEETS AV-300 THROUGH AV-303 FOR LOCATION AND SIZES OF UNITS.
2. WHERE BRICK WALLS MEETS LVT FLOORING, DO NOT USE RUBBER BASE.

LEGEND

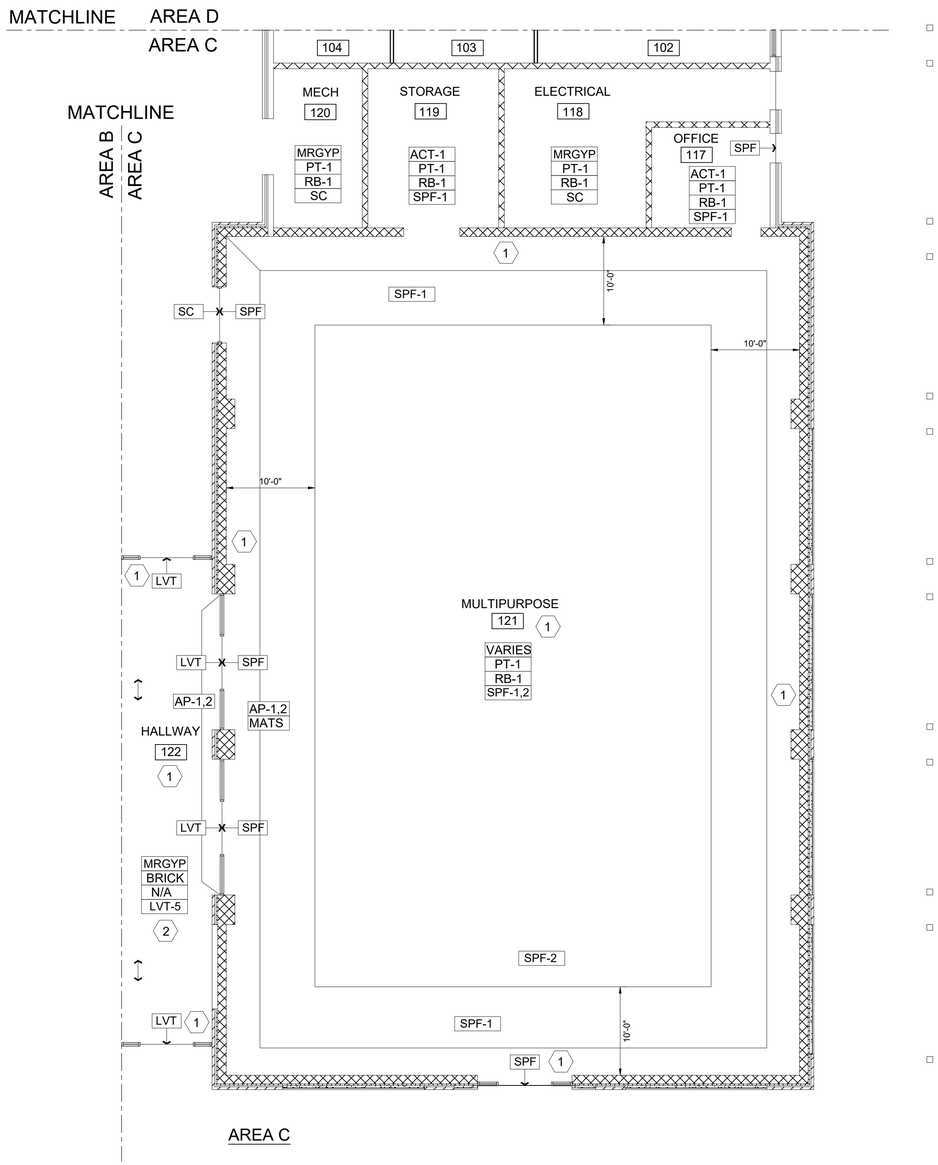
ACT-1	ROOM FINISHES: CEILING
PT-1	WALLS
RB-1	BASE
LVT 1,2	FLOORING
PT-2	EXTENT OF ACCENT WALL FINISH

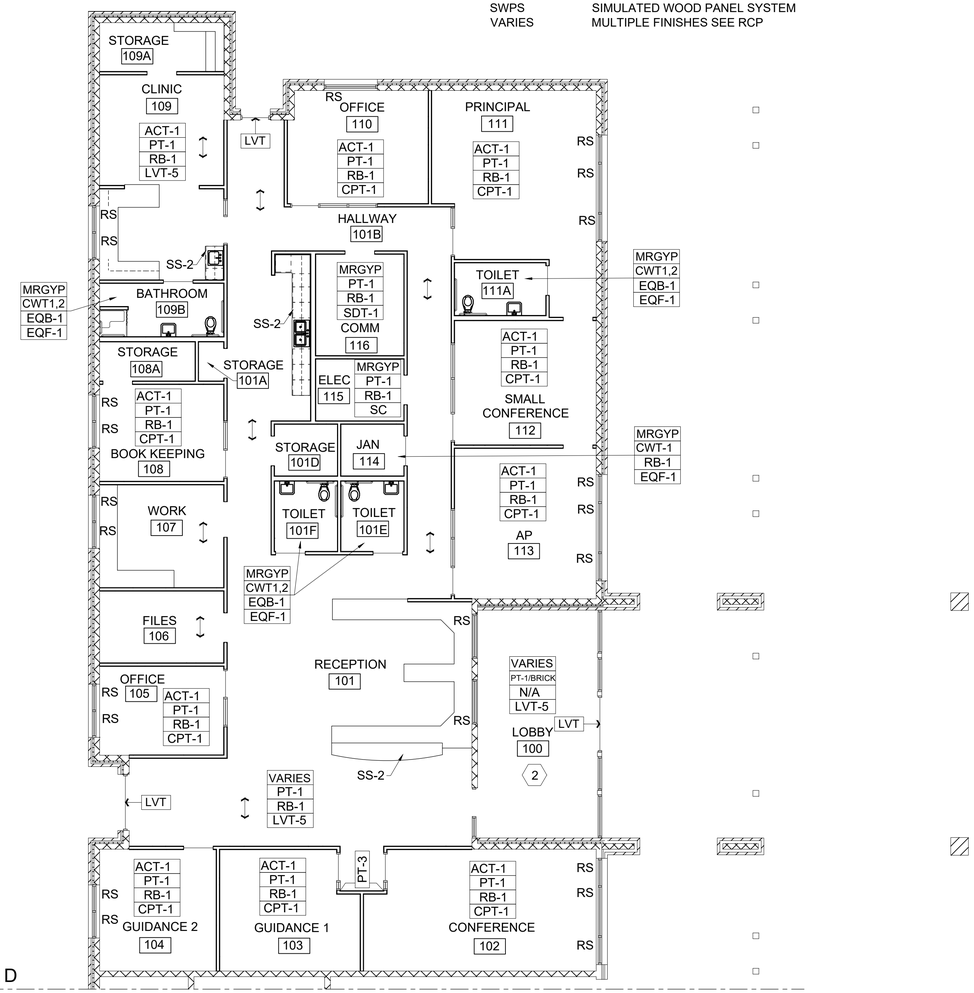
GENERAL NOTES

1. FOR EXTENTS OF CEILING FINISHES, SEE RCP IN ARCHITECTURAL
2. ALL COUNTERTOPS IN WET AREAS TO BE SOLID SURFACE (SS-1) WITH INTEGRAL BOWL.
3. ALL COUNTERTOPS IN NON-WET AREAS, TO BE PL-2.
4. ALL BASE CABINETRY TO BE PL-1. WALL CABINETS TO BE PL 3-5. SEE MILLWORK ELEVATIONS IN ARCHITECTURAL FOR PLACEMENT.
5. ALL TOILETS TO HAVE CWT FULL HEIGHT ALL WALLS. SEE SHEET I-605 FOR TYPICAL ELEVATION.
6. FOR FLOOR PATTERNS, SEE SHEET I-605.
7. SEE SHEET I-601 FOR FINISH SCHEDULE AND ADDITIONAL PRODUCT SPECIFICATIONS.
8. WALLS OPPOSITE SINK & CABINET IN CLASSROOM VESTIBULES TO BE PAINTED PT-2, WHERE INDICATED.
9. WALLS AT RECESSED ENTRY TO EACH CLASSROOM TO BE PAINTED PT-4 - TYPICAL.
10. WALL BEHIND EWC TO BE CWT-2-INSTALLED IN BRICK PATTERN, ABOVE BASE TO HEIGHT OF DOOR FRAMES.

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILES
AP	ACOUSTICAL PANELS
CWT	CERAMIC WALL TILE
EQF	EPOXY QUARTZ FLOORING
EQB	EPOXY QUARTZ BASE
EXPOSED	EXPOSED TO ABOVE
GLASS	GLASS-1 WALL OR ENTRY
LVT	LUXURY VINYL TILE
MAT	WALL MATS
MRGYP	MOISTURE RESISTANT GYP BOARD
OTS	OPEN TO STRUCTURE
PL	PLASTIC LAMINATE
PT	PAINT
RB	RUBBER BASE
RS	ROLLER SHADES
RT	RUBBER TILE
SC	SEALED CONCRETE
SDT	STATIC DISSIPATIVE TILE
SPF	SEAMLESS POURED FLOORING
SS	SOLID SURFACE
ST	STAIR TREAD
SWPS	SIMULATED WOOD PANEL SYSTEM
VARIES	MULTIPLE FINISHES SEE RCP





AREA C

AREA D

FINISH PLAN FIRST FLOOR- AREAS C & D

SCALE: 1/8"=1'-0"

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Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
JAN SIMPSON
STATE OF FLORIDA JAN B. SIMPSON 100003599 LICENSED INTERIOR DESIGNER 10 OCTOBER 2024

Project No.: 83X98735

Drawing Title:
FINISH PLAN FIRST FLOOR - AREAS C& D

Date: 10 OCTOBER 2024

Designed By: RH
Drawn By: JBS
Checked By: RH

Drawing No.: I-103

LEGEND

XXX ROOM SIGN SYMBOL

CG CG (CORNER GUARDS)

ACT-1	ROOM FINISHES:
PT-1	CEILING
RB-1	WALLS
LVT 1,2	BASE
	FLOORING

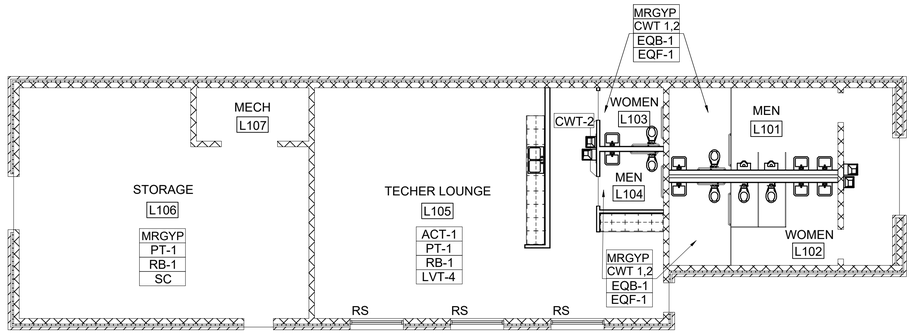
PT-2 EXTENT OF ACCENT WALL FINISH

ABBREVIATIONS

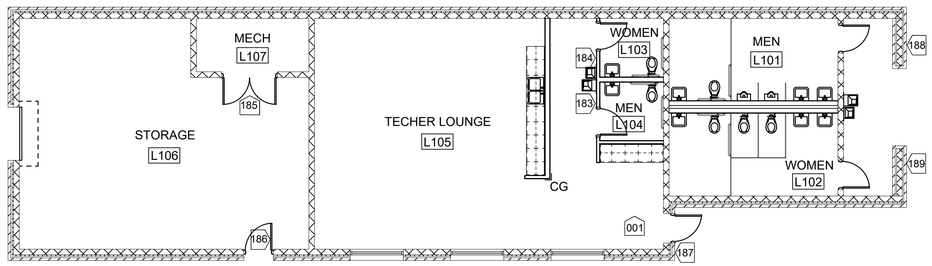
ACT	ACOUSTICAL CEILING TILES
AP	ACOUSTICAL PANELS
CG	CORNER GUARDS
CWT	CERAMIC WALL TILE
EQF	EPOXY QUARTZ FLOORING
EQB	EPOXY QUARTZ BASE
EXPOSED	EXPOSED TO ABOVE
GLASS	GLASS-1 WALL OR ENTRY
LVT	LUXURY VINYL TILE
MRGYP	MOISTURE RESISTANT GYP BOARD
OTS	OPEN TO STRUCTURE
PL	PLASTIC LAMINATE
PT	PAINT
RB	RUBBER BASE
RS	ROLLER SHADES
RT	RUBBER TILE
SC	SEALED CONCRETE
SDT	STATIC DISSIPATIVE TILE
SPF	SEAMLESS POURED FLOORING
SS	SOLID SURFACE
ST	STAIR TREAD
SWPS	SIMULATED WOOD PANEL SYSTEM
VARIES	MULTIPLE FINISHES SEE RCP

GENERAL NOTES

1. FOR EXTENTS OF CEILING FINISHES, SEE RCP IN ARCHITECTURAL
2. SEE SHEET I-601 FINISH SCHEDULE FOR LOCATIONS OF FINISHES AND ADDITIONAL MATERIAL SPECIFICATIONS.
3. ALL COUNTERTOPS IN WET AREAS TO BE SOLID SURFACE (SS-2) WITH INTEGRAL BOWL.
4. ALL COUNTERTOPS IN NON-WET AREAS, TO BE PL-2
5. ALL BASE CABINETRY TO BE PL-1.
6. ALL WALL CABINETRY TO BE PL-3.
7. ALL TOILETS TO HAVE CWT FULL HEIGHT ALL WALLS. SEE SHEET I-605 FOR TYPICAL ELEVATION.
8. PROVIDE TRANSITION STRIPS BY SCHLUTER OR EQUIVALENT TO BE INSTALLED AT ALL FLOORING TRANSITIONS.
9. REFER TO SHEET I-603 FOR SIGNAGE TYPES.
10. COORDINATE WALL DEVICES SUCH AS BUT NOT LIMITED TO, THERMOSTATS, WALL MOUNTED EQUIP., KEY PADS AND SWITCHES WITH SIGNAGE PLACEMENT.
11. MOUNT @ 5'-0" ABOVE FINISHED FLOOR TO CENTER LINE OF SIGN
12. LETTERS AND NUMERALS SHALL BE RAISED 1/32", UPPER CASE, SANS SERIF AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE.
13. COLORS: TO BE SELECTED BY TPM
14. LETTERS AND NUMBERS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1, AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.
15. CORNER GUARDS WHERE INDICATED.



FINISH PLAN



SIGNAGE PLAN

TEACHER'S LOUNGE

SCALE: 1/8"=1'-0"

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
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Florida Lic. No. C001942

Revision:

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DESTIN ELEMENTARY SCHOOL
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Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

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STATE OF FLORIDA
JAN B. SIMPSON
100003599
10 OCTOBER 2024
LICENSED INTERIOR DESIGNER

Project No.: 83X98735

Drawing Title:
TEACHERS LOUNGE

Date: 10 OCTOBER 2024

Designed By: RH
Drawn By: JBS
Checked By: RH

Drawing No.: I-104

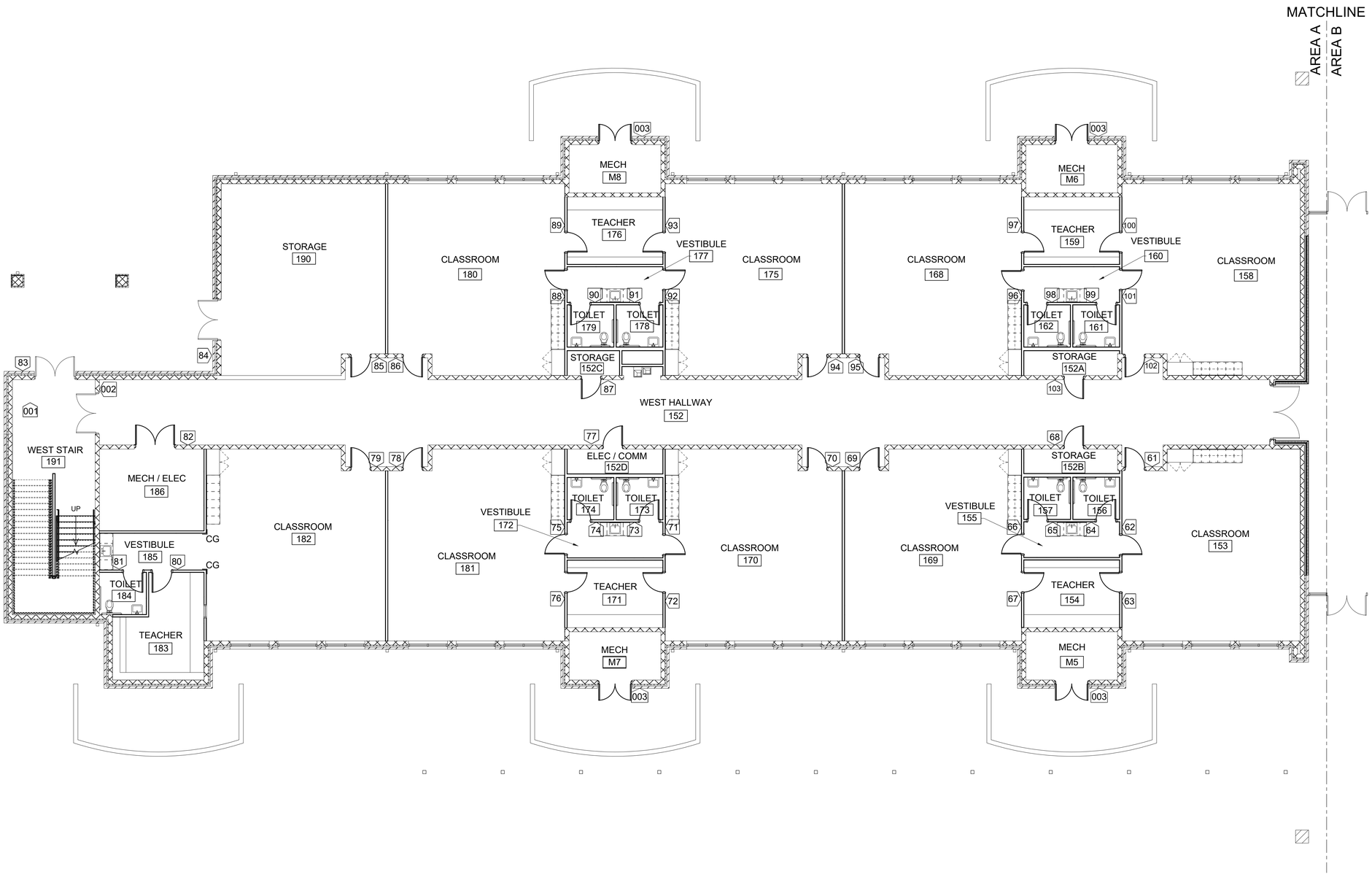
GENERAL NOTES

1. MOUNT @ 5'-0" ABOVE FINISHED FLOOR TO CENTER LINE OF SIGN
2. LETTERS AND NUMERALS SHALL BE RAISED 1/32", UPPER CASE, SANS SERIF AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE.
3. COLORS: TO BE SELECTED BY TPM
4. LETTERS AND NUMBERS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1, AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.
5. SEE SHEET I-604 FOR ADDITIONAL SCHEDULES.
6. CORNER GUARDS WHERE INDICATED.

LEGEND

XXX ROOM SIGN SYMBOL

CG CG (CORNER GUARDS)



SIGNAGE PLAN FIRST FLOOR - AREA A

SCALE: 1/8"=1'-0"

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
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Revision:

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DESTIN ELEMENTARY SCHOOL
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Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
JAN SIMPSON

STATE OF FLORIDA
JAN B. SIMPSON
100003599
10 OCTOBER 2024
LICENSED INTERIOR DESIGNER

Project No.: 83X98735

Drawing Title:
SIGNAGE PLAN FIRST FLOOR - AREA A

Date: 10 OCTOBER 2024

Designed By: RH
Drawn By: JBS
Checked By: RH

Drawing No.: I-105

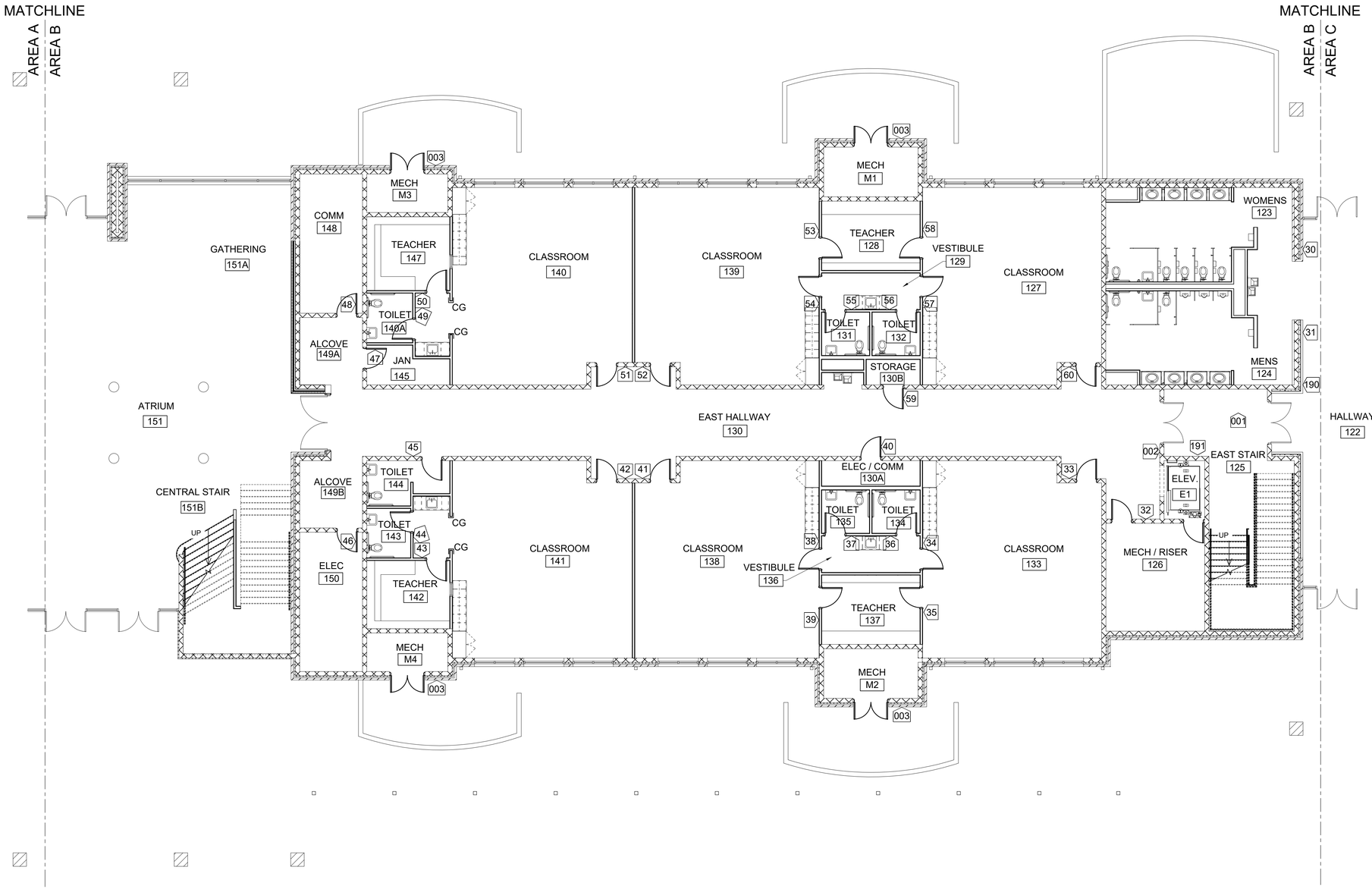
GENERAL NOTES

1. MOUNT @ 5'-0" ABOVE FINISHED FLOOR TO CENTER LINE OF SIGN
2. LETTERS AND NUMERALS SHALL BE RAISED 1/32", UPPER CASE, SANS SERIF AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE.
3. COLORS: TO BE SELECTED BY TPM
4. LETTERS AND NUMBERS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1, AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.
5. DETAILS SHOWN ARE FOR TYPE ONLY.
6. SEE SHEET I-604 FOR SECOND FLOOR SCHEDULE.
7. CORNER GUARDS WHERE INDICATED.

LEGEND

XXX ROOM SIGN SYMBOL

CG CG (CORNER GUARDS)



SIGNAGE PLAN FIRST FLOOR- AREA B

SCALE: 1/8"=1'-0"

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
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Florida Lic. No. C001942

Revision:

Date:	By:	Description:

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Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
JAN SIMPSON

STATE OF FLORIDA
JAN B. SIMPSON
100003599
10 OCTOBER 2024
LICENSED INTERIOR DESIGNER

Project No.: 83X98735

Drawing Title:
SIGNAGE PLAN FIRST FLOOR - AREA B

Date: 10 OCTOBER 2024

Designed By: RH
Drawn By: JBS
Checked By: RH

Drawing No.: I-106

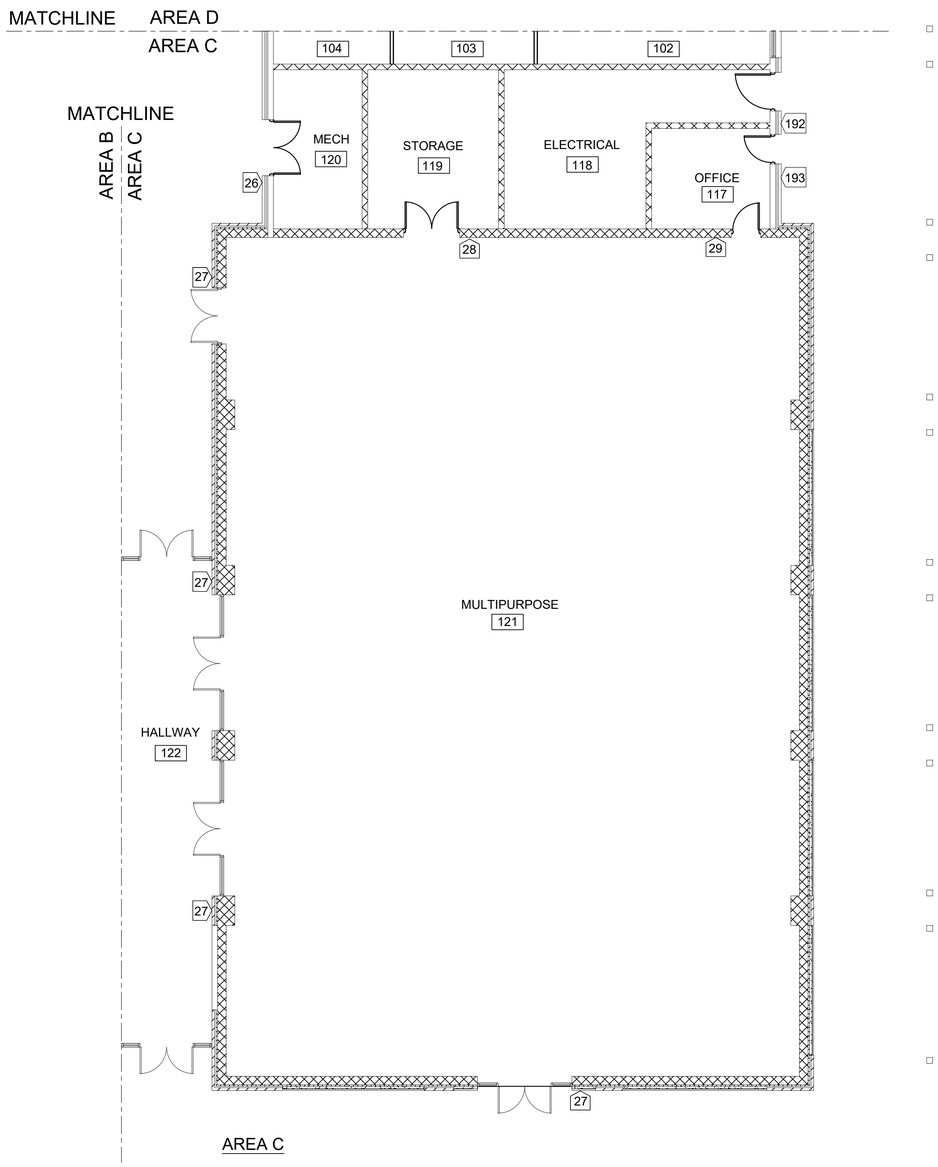
GENERAL NOTES

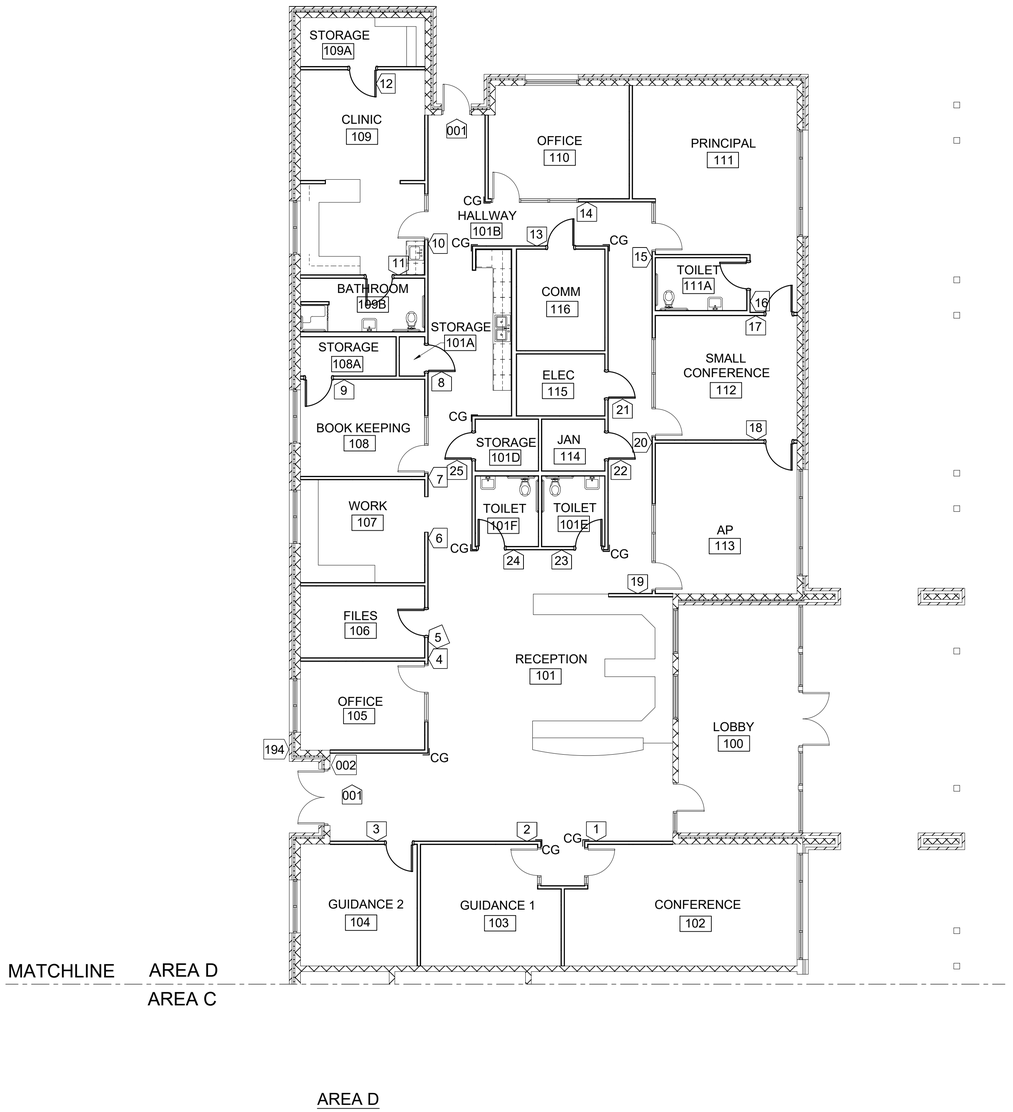
1. MOUNT @ 5'-0" ABOVE FINISHED FLOOR TO CENTER LINE OF SIGN
2. LETTERS AND NUMERALS SHALL BE RAISED 1/32", UPPER CASE, SANS SERIF AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE.
3. COLORS: TO BE SELECTED BY TPM
4. LETTERS AND NUMBERS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1, AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.
5. DETAILS SHOWN ARE FOR TYPE ONLY.
6. SEE SHEET I-604 FOR SECOND FLOOR SCHEDULE.
7. CORNER GUARDS WHERE INDICATED.

LEGEND

XXX ROOM SIGN SYMBOL

CG CG (CORNER GUARDS)





SIGNAGE PLAN FIRST FLOOR - AREAS C & D

SCALE: 1/8"=1'-0"

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Florida Lic. No. C001942

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Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
JAN SIMPSON

STATE OF FLORIDA
JAN B. SIMPSON
100003599
10 OCTOBER 2024
LICENSED INTERIOR DESIGNER

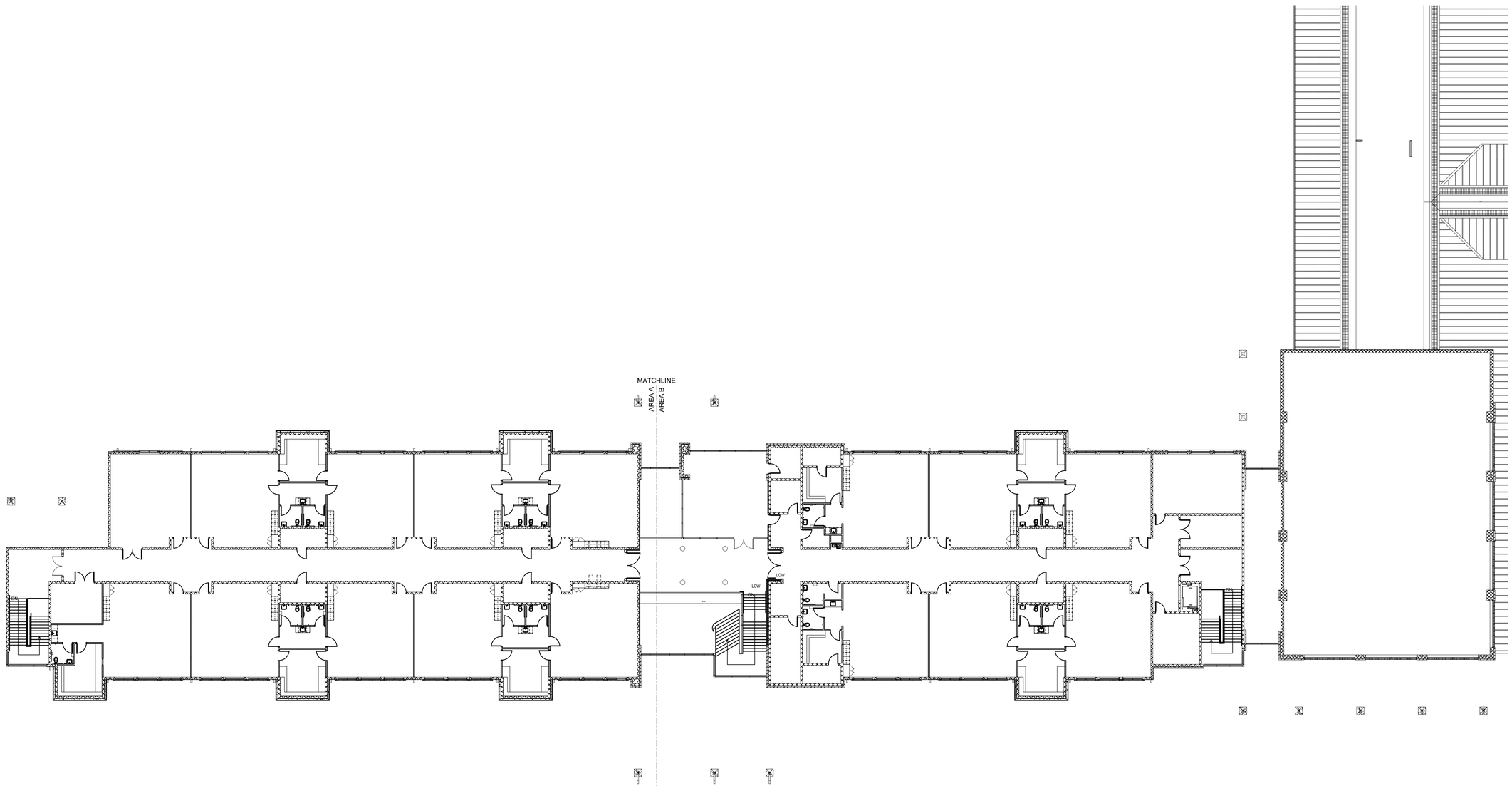
Project No.: 83X98735

Drawing Title:
SIGNAGE PLAN FIRST FLOOR - AREAS C&D

Date: 10 OCTOBER 2024

Designed By: RH
Drawn By: JBS
Checked By: RH

Drawing No.: I-107



OVERALL SECOND FLOOR PLAN

SCALE: 1/16" = 1'-0"

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Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
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Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

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Foxit PDF Editor Version: 12.0.0

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JAN B. SIMPSON
100003599
10 OCTOBER 2024
LICENSED INTERIOR DESIGNER

Project No.: 83X98735

Drawing Title:
OVERALL SECOND FLOOR PLAN

Date: 10 OCTOBER 2024

Designed By: RH
Drawn By: JBS
Checked By: RH

Drawing No.:
I-200

GENERAL NOTES

1. FOR EXTENTS OF CEILING FINISHES, SEE RCP IN ARCHITECTURAL
2. ALL COUNTERTOPS IN WET AREAS TO BE SOLID SURFACE (SS-1) WITH INTEGRAL BOWL.
3. ALL COUNTERTOPS IN NON-WET AREAS, TO BE PL-2.
4. ALL BASE CABINETRY TO BE PL-1. WALL CABINETS TO BE PL 3-5. SEE MILLWORK ELEVATIONS IN ARCHITECTURAL FOR PLACEMENT.
5. ALL TOILETS TO HAVE CWT FULL HEIGHT ALL WALLS. SEE SHEET I-605 FOR TYPICAL ELEVATION.
6. FOR FLOOR PATTERNS, SEE SHEET I-605.
7. SEE SHEET I-601 FOR FINISH SCHEDULE AND ADDITIONAL PRODUCT SPECIFICATIONS.
8. WALLS OPPOSITE SINK & CABINET IN CLASSROOM VESTIBULES TO BE PAINTED PT-2, WHERE INDICATED.
9. WALLS AT RECESSED ENTRY TO EACH CLASSROOM TO BE PAINTED PT-4 - TYPICAL.
10. WALL BEHIND EWC TO BE CWT-2-INSTALLED IN BRICK PATTERN, ABOVE BASE TO HEIGHT OF DOOR FRAMES.

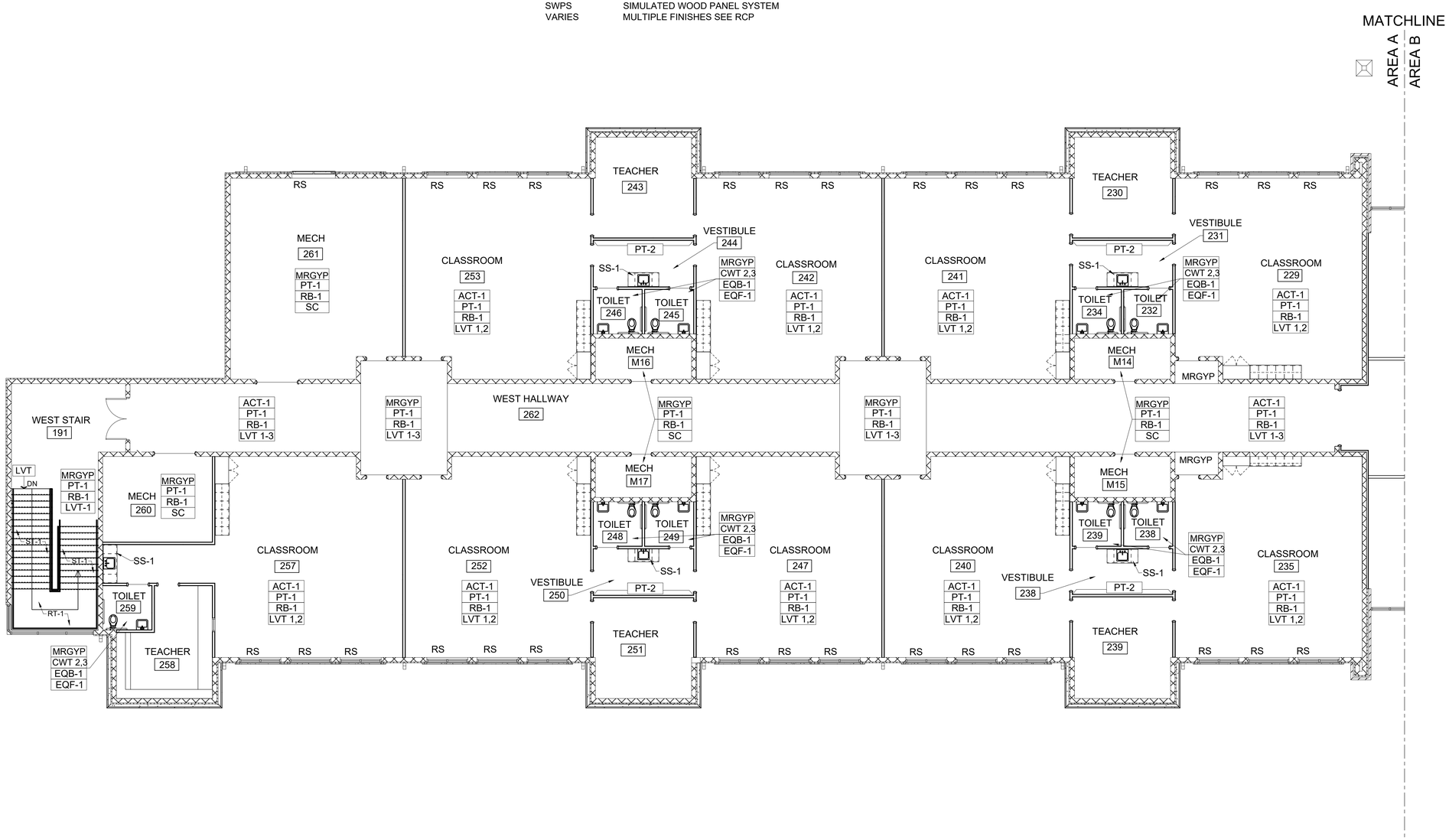
ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILES
AP	ACOUSTICAL PANELS
CWT	CERAMIC WALL TILE
EQF	EPOXY QUARTZ FLOORING
EQB	EPOXY QUARTZ BASE
EXPOSED	EXPOSED TO ABOVE
GLASS	GLASS-1 WALL OR ENTRY
LVT	LUXURY VINYL TILE
MRGYP	MOISTURE RESISTANT GYP BOARD
OTS	OPEN TO STRUCTURE
PL	PLASTIC LAMINATE
PT	PAINT
RB	RUBBER BASE
RS	ROLLER SHADES
RT	RUBBER TILE
SC	SEALED CONCRETE
SDT	STATIC DISSIPATIVE TILE
SPF	SEAMLESS POURED FLOORING
SS	SOLID SURFACE
ST	STAIR TREAD
SWPS	SIMULATED WOOD PANEL SYSTEM
VARIES	MULTIPLE FINISHES SEE RCP

LEGEND

ACT-1	ROOM FINISHES:
PT-1	CEILING
RB-1	WALLS
LVT 1,2	BASE
	FLOORING

PT-2 — EXTENT OF ACCENT WALL FINISH



FINISH PLAN SECOND FLOOR - AREA A

SCALE: 1/8"=1'-0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

Jacobs | TITAN TECHNOLOGIES

4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

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STATE OF FLORIDA
JAN B. SIMPSON
100003599
10 OCTOBER 2024
LICENSED INTERIOR DESIGNER

Project No.: 83X98735

Drawing Title:

FINISH PLAN SECOND FLOOR - AREA A

Date: 10 OCTOBER 2024

Designed By: RH
Drawn By: JBS
Checked By: RH

Drawing No.: I-201

GENERAL NOTES

1. FOR EXTENTS OF CEILING FINISHES, SEE RCP IN ARCHITECTURAL
2. ALL COUNTERTOPS IN WET AREAS TO BE SOLID SURFACE (SS-1) WITH INTEGRAL BOWL.
3. ALL COUNTERTOPS IN NON-WET AREAS, TO BE PL-2.
4. ALL BASE CABINETRY TO BE PL-1. WALL CABINETS TO BE PL 3-5. SEE MILLWORK ELEVATIONS IN ARCHITECTURAL FOR PLACEMENT.
5. ALL TOILETS TO HAVE CWT FULL HEIGHT ALL WALLS. SEE SHEET I-605 FOR TYPICAL ELEVATION.
6. FOR FLOOR PATTERNS, SEE SHEET I-605.
7. SEE SHEET I-601 FOR FINISH SCHEDULE AND ADDITIONAL PRODUCT SPECIFICATIONS.
8. WALLS OPPOSITE SINK & CABINET IN CLASSROOM VESTIBULES TO BE PAINTED PT-2, WHERE INDICATED.
9. WALLS AT RECESSED ENTRY TO EACH CLASSROOM TO BE PAINTED PT-4 - TYPICAL.
10. WALL BEHIND EWC TO BE CWT-2-INSTALLED IN BRICK PATTERN, ABOVE BASE TO HEIGHT OF DOOR FRAMES.

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILES
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GLASS	GLASS-1 WALL OR ENTRY
LVT	LUXURY VINYL TILE
MRGYP	MOISTURE RESISTANT GYP BOARD
OTS	OPEN TO STRUCTURE
PL	PLASTIC LAMINATE
PT	PAINT
RB	RUBBER BASE
RS	ROLLER SHADES
RT	RUBBER TILE
SC	SEALED CONCRETE
SDT	STATIC DISSIPATIVE TILE
SPF	SEAMLESS POURED FLOORING
SS	SOLID SURFACE
ST	STAIR TREAD
SWPS	SIMULATED WOOD PANEL SYSTEM
VARIES	MULTIPLE FINISHES SEE RCP

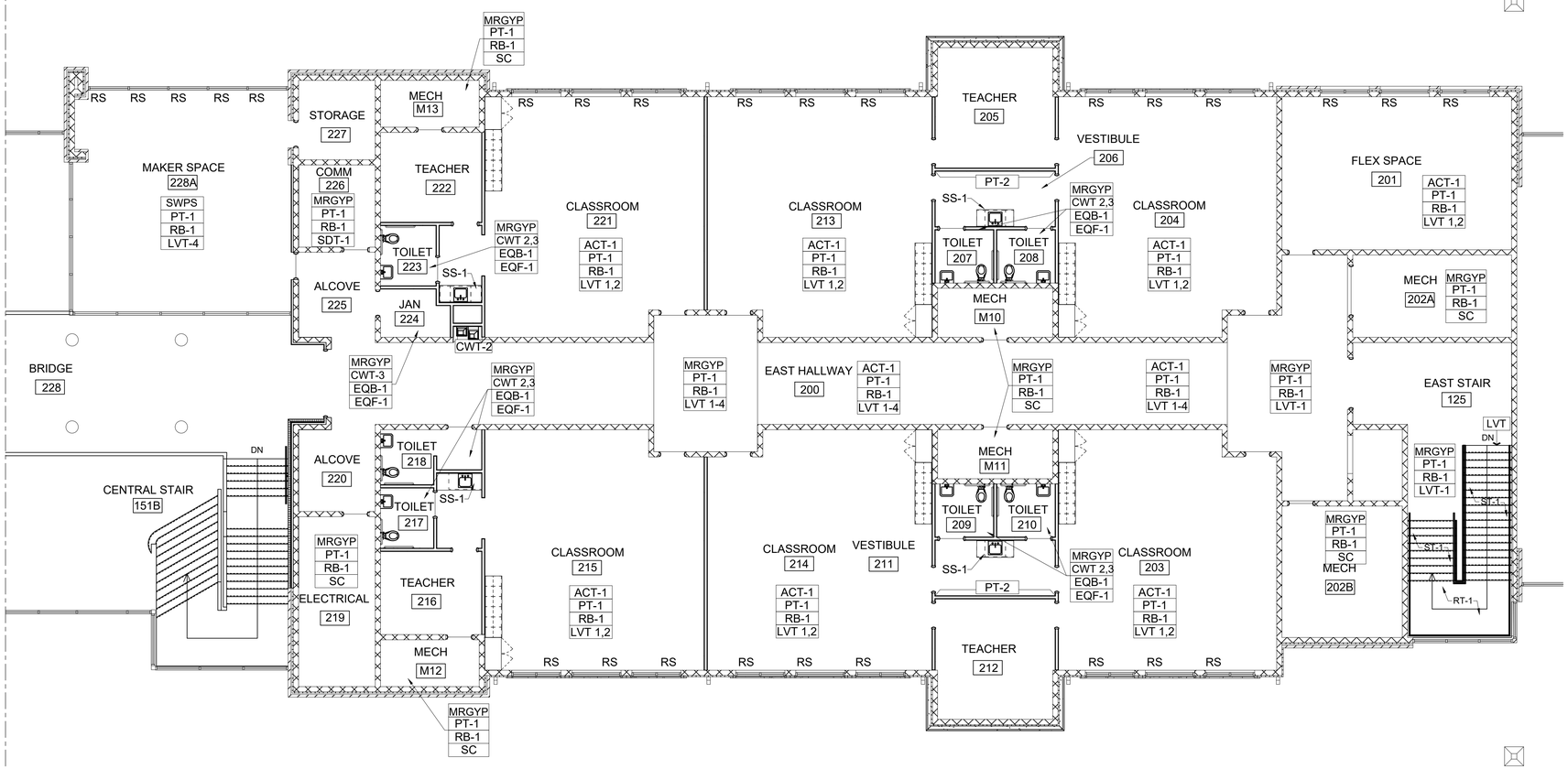
LEGEND

ACT-1 / PT-1 / RB-1 / LVT 1,2 — ROOM FINISHES: CEILING / WALLS / BASE / FLOORING

PT-2 — EXTENT OF ACCENT WALL FINISH

MATCHLINE

AREA A | AREA B



FINISH PLAN SECOND FLOOR - AREA B

SCALE: 1/8"=1'-0"

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Revision:

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Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

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Project No.: 83X98735

Drawing Title:

FINISH PLAN SECOND FLOOR - AREA B

Date: 10 OCTOBER 2024

Designed By: RH
Drawn By: JBS
Checked By: RH

Drawing No.: I-202

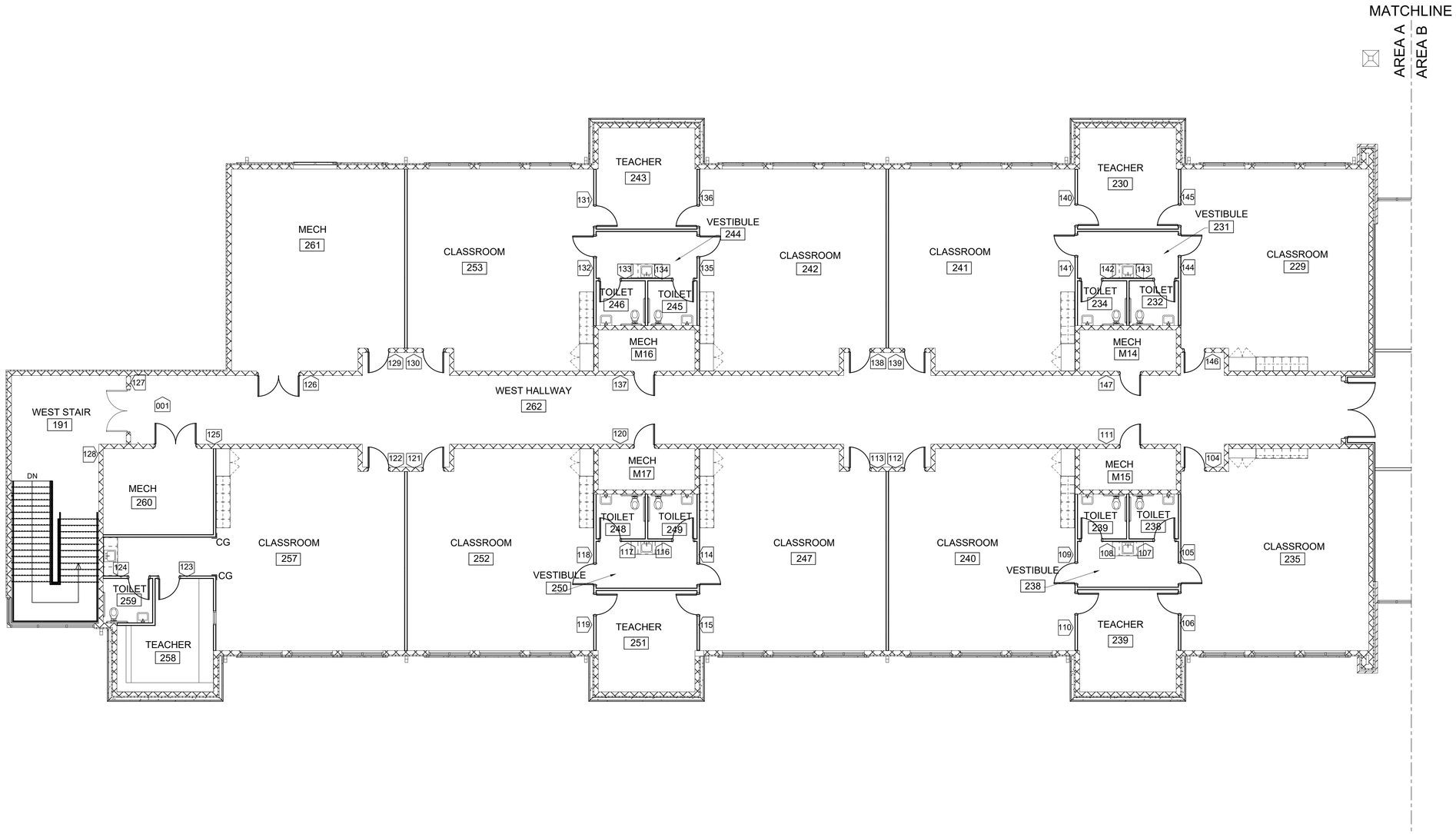
GENERAL NOTES

1. MOUNT @ 5'-0" ABOVE FINISHED FLOOR TO CENTER LINE OF SIGN
2. LETTERS AND NUMERALS SHALL BE RAISED 1/32", UPPER CASE, SANS SERIF AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE.
3. COLORS: TO BE SELECTED BY TPM
4. LETTERS AND NUMBERS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1, AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.
5. SEE SHEET I-604 FOR ADDITIONAL SCHEDULES.
6. CORNER GUARDS WHERE INDICATED.

LEGEND

XXX ROOM SIGN SYMBOL

CG CG (CORNER GUARDS)



SIGNAGE PLAN SECOND FLOOR - AREA A

SCALE: 1/8"=1'-0"

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Revision:

Date:	By:	Description:

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3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

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STATE OF FLORIDA
JAN B. SIMPSON
100003599
10 OCTOBER 2024
LICENSED INTERIOR DESIGNER

Project No.: 83X98735

Drawing Title:

SIGNAGE PLAN SECOND FLOOR - AREA A

Date: 10 OCTOBER 2024

Designed By: RH
Drawn By: JBS
Checked By: RH

Drawing No.: I-203

GENERAL NOTES

1. MOUNT @ 5'-0" ABOVE FINISHED FLOOR TO CENTER LINE OF SIGN
2. LETTERS AND NUMERALS SHALL BE RAISED 1/32", UPPER CASE, SANS SERIF AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE.
3. COLORS: TO BE SELECTED BY TPM
4. LETTERS AND NUMBERS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1, AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.
5. SEE SHEET I-604 FOR ADDITIONAL SCHEDULES.
6. CORNER GUARDS WHERE INDICATED.

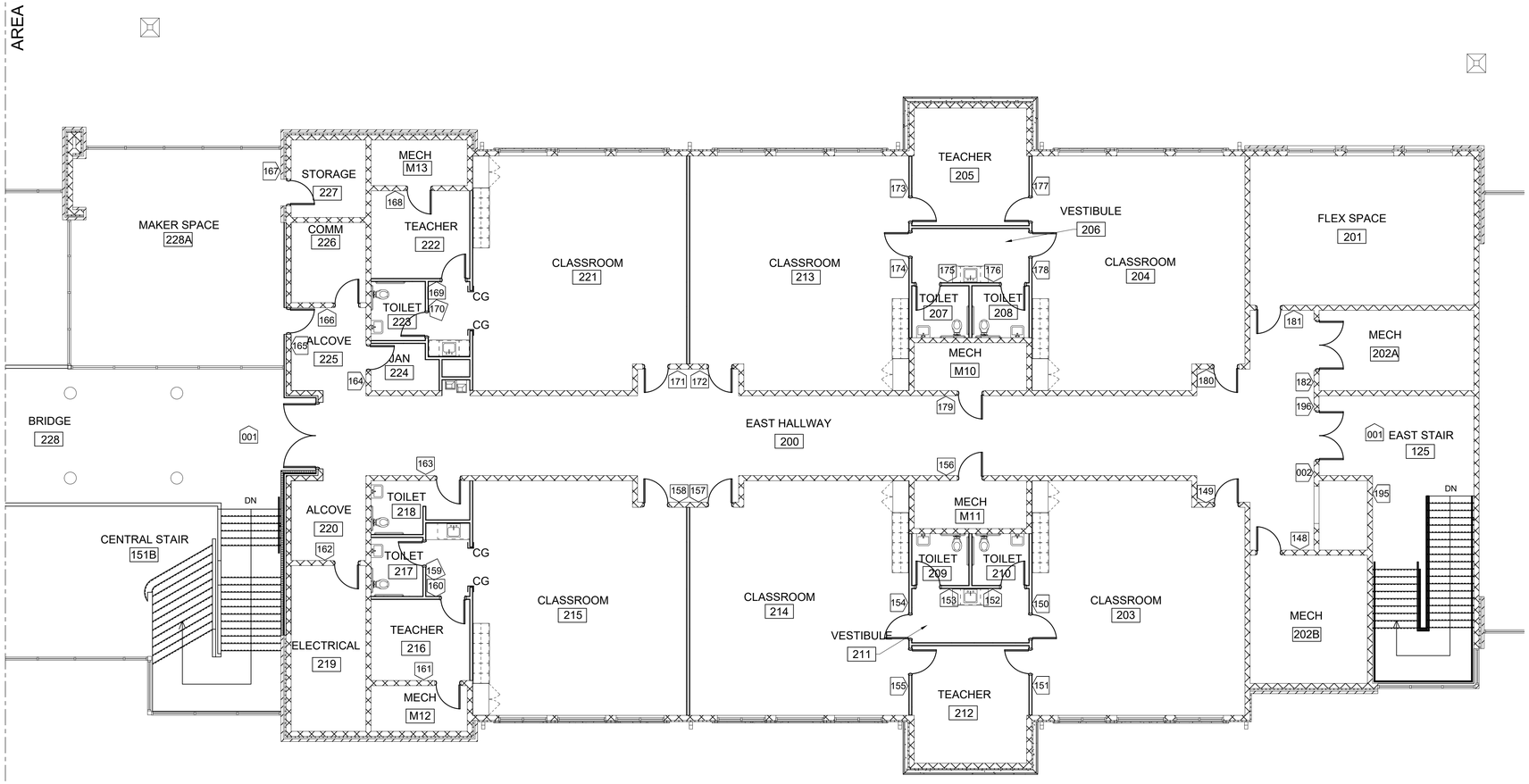
LEGEND

XXX ROOM SIGN SYMBOL

CG CG (CORNER GUARDS)

MATCHLINE

AREA A | AREA B



SIGNAGE PLAN SECOND FLOOR-AREA B

SCALE: 1/8"=1'-0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

Jacobs | TITAN TECHNOLOGIES

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Heffernan Holland Morgan Architecture, P.A.
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Revision:

Date:	By:	Description:

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3/4/5 CENTER
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STATE OF FLORIDA
JAN B. SIMPSON
100003599
10 OCTOBER 2024
LICENSED INTERIOR DESIGNER

Project No.: 83X98735

Drawing Title:

SIGNAGE PLAN SECOND FLOOR - AREA B

Date: 10 OCTOBER 2024

Designed By: RH
Drawn By: JBS
Checked By: RH

Drawing No.: I-204

ROOM FINISH SCHEDULE ~ FIRST FLOOR

ROOM NO.	ROOM NAME	FLOOR	BASE	NORT-1H WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING	REMARKS
		FIN/ COLOR	FIN/ COLOR	COLOR	COLOR	COLOR	COLOR	FIN	
FIRST FLOOR									
100	LOBBY	LVT-5	N/A	BRICK	N/A	BRICK	GLASS	OTS	16
101	RECEPTION	LVT-5	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	4, 5, 6, 15
101A	STORAGE	LVT-5	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
101B	HALLWAY	LVT-5	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
101D	STORAGE	LVT-5	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
101E	UNISEX TOILET	EQF-1	EQB-1	CWT-1,2	CWT-1,2	CWT-1,2	CWT-1,2	MRGYP/PT-6	2, 3
101F	UNISEX TOILET	EQF-1	EQB-1	CWT-1,2	CWT-1,2	CWT-1,2	CWT-1,2	MRGYP/PT-6	2, 3
102	CONFERENCE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	7
103	GUIDANCE 1	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	7
104	GUIDANCE 2	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	7
105	OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	7
106	FILES	LVT-5	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
107	WORK	LVT-5	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
108	BOOKKEEPING	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	7
108A	STORAGE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	7
109	CLINIC	LVT-5	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
109A	STORAGE	LVT-5	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
109B	RESTROOM	EQF-1	RB-1	CWT-1,2	CWT-1,2	CWT-1,2	CWT-1,2	MRGYP/PT-6	2, 3
110	OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	7
111	PRINCIPAL	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	7
111A	TOILET	EQF-1	EQB-1	CWT-1,2	CWT-1,2	CWT-1,2	CWT-1,2	MRGYP/PT-6	2, 3
112	SMALL CONFERENCE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	7
113	AP	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	7
114	JANITOR	EQF-1	EQB-1	CWT-1	CWT-1	CWT-1	CWT-1	MRGYP/PT-6	2, 3
117	OFFICE	SPF-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
118	ELECTRICAL	SC	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
119	STORAGE	SPF-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
120	MECHANICAL	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OTS	
121	MULTIPURPOSE	SPF-1	RB-1	PT-1/AP1,2/MATS	PT-1/AP1,2/MATS	PT-1/AP1,2/MATS	PT-1/AP1,2/MATS	VARIES*	9, 10, 12, 14
122	HALLWAY	LVT-5	N/A	BRICK	BRICK	BRICK	BRICK	MRGYP/PT-6	10, 16
123	WOMEN'S	EQF-1	EQB-1	CWT-1,2	CWT-1,2	CWT-1,2	CWT-1,2	MRGYP/PT-6	2, 3
124	MEN'S	EQF-1	EQB-1	CWT-1,2	CWT-1,2	CWT-1,2	CWT-1,2	MRGYP/PT-6	2, 3
TYPICAL CLASSROOMS EAST AND WEST HALLWAY - 1ST FLOOR									
	CLASSROOMS	LVT-1, 2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	1,4,8
	TYPICAL TEACHER	LVT-1, 2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	1,4,8
	TYPICAL VESTIBULE	LVT-1, 2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	1,4,8
	TYPICAL TOILET	EQF-1	EQB-1	CWT-2, 3	CWT-2, 3	CWT-2, 3	CWT-2, 3	MRGYP/PT-6	2, 3
	TYPICAL JANITOR	EQF-1	EQB-1	CWT-3	CWT-3	CWT-3	CWT-3	MRGYP/PT-6	2, 3
125	EAST STAIR	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
126	MECHANICAL/RISER	SC	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
E1	ELEV.	FINISHES BY ELEVATOR MANUFACTURER							
130	EAST HALLWAY	LVT 1-4	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1/MRGYP/PT-6	13, 15
130A	ELECT/COMM	SDT-1	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
130B	STORAGE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
148	COMM	SDT-1	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
149	ALCOVE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
150	ELECTRICAL	SC	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
151	ATRIUM	LVT 1-4	RB-1/ N/A	PT-1	PT-1	PT-1	PT-1	VARIES*	4, 10, 11, 12, 15,16
151A	GATHERING	LVT 1-4	RB-1	PT-1	PT-1	PT-1	PT-1	VARIES*	4, 12, 15
151B	MAIN STAIR	RT-1/ST-1	RB-1	PT-1	PT-1	PT-1	PT-1	VARIES*	12, 15
152	WEST HALLWAY	LVT 1-4	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1/MRGYP/PT-6	13, 15
152A	STORAGE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
152B	STORAGE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
152C	STORAGE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
152D	ELECT/COMM	SDT-1	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
186	MECH/ELECT	SC	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
190	STORAGE	SC	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
191	WEST STAIR	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	

FINISH NOTES

1. COUNTERTOPS AND VANITIES IN WET AREAS TO BE TO BE SOLID SURFACE WITH INTEGRAL BOWL.
2. EPOXY QUARTZ FLOOR WITH INTEGRAL 4" BASE.
3. CWT WALL TILE PATTERN ALL WALLS. FULL HEIGHT. SEE ELEVATION SHEET I-605.
4. LVT FLOOR PATTERN. LVT-2 PLACED NEAR WALL OPPOSITE MILLWORK. SEE SHEET I-605 FOR LAYOUT.
5. SIMULATED WOOD PANEL SYSTEM. SEE RCP IN ARCHITECTURAL.
6. TRANSACTION COUNTER TO BE SS-2.
7. CPT-1 TO BE INSTALLED QUARTER TURNED.
8. BASE AND UPPER CABINETS TO BE HP LAMINATE. SEE ELEVATIONS ON ARCHITECTURAL SHEETS.
9. WALL MATS TO BE USED ON ALL WALLS.
10. ACOUSTICAL PANELS (AP-1) TO BE INSTALLED IN VARIOUS LOCATIONS INCLUDING ATRIUM, MULTIPURPOSE ROOM AND HALLWAY 122. SEE AV PACKAGE SHEETS AV-300 THROUGH AV-303 FOR LOCATION AND SIZES OF UNITS.
11. COLUMNS TO BE WRAPPED IN ALUMINUM COMPOSITE COVERS. SEE ARCHITECTURAL.
12. MULTIPLE CEILING FINISHES. FOR EXTENTS OF CEILING FINISHES, SEE RCP IN ARCHITECTURAL.
13. TYPICAL CORRIDOR FLOOR PATTERN. SEE SHEET I-605 FOR LAYOUT.
14. ACCENT WALL - SEE FINISH PLANS FOR EXTENTS.
15. SEE SHEET I-605 FOR ELEVATIONS AND DETAILS.
16. WHERE THERE IS A BRICK WALL TO THE FLOOR, NO RUBBER BASE WILL BE USED.

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILES
AP	ACOUSTICAL PANELS
CG	CORNER GUARDS
CWT	CERAMIC WALL TILE
EQF	EPOXY QUARTZ FLOORING
EQB	EPOXY QUARTZ BASE
EXPOSED	EXPOSED TO ABOVE
GLASS	GLASS-1 WALL OR ENTRY
LVT	LUXURY VINYL TILE
MAT	WALL MATS
MRGYP	MOISTURE RESISTANT GYP BOARD
OTS	OPEN TO STRUCTURE
PL	PLASTIC LAMINATE
PT	PAINT
RB	RUBBER BASE
RS	ROLLER SHADES
RT	RUBBER TILE
SC	SEALED CONCRETE
SDT	STATIC DISSIPATIVE TILE
SPF	SEAMLESS POURED FLOORING
SS	SOLID SURFACE
ST	STAIR TREAD
SWPS	SIMULATED WOOD PANEL SYSTEM
VARIES	MULTIPLE FINISHES SEE RCP
WB	WHITE BOARD

ROOM FINISH SCHEDULE ~ SECOND FLOOR

ROOM NO.	ROOM NAME	FLOOR	BASE	NORT-1H WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING	REMARKS
		FIN/ COLOR	FIN/ COLOR	COLOR	COLOR	COLOR	COLOR	FIN	
200	EAST HALLWAY	LVT 1-4	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1/MRGYP/PT-6	13, 14
201	FLEX SPACE	LVT-1, 2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	4
202A	MECHANICAL	SC	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
202B	MECHANICAL	SC	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
TYPICAL CLASSROOMS EAST AND WEST HALLWAY - 2ND FLOOR									
	CLASSROOMS	LVT-1, 2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	1,4,8
	TYPICAL TEACHER	LVT-1, 2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	1,4,8
	TYPICAL VESTIBULE	LVT-1, 2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	1,4,8
	TYPICAL TOILET	EQF-1	EQB-1	CWT-2, 3	CWT-2, 3	CWT-2, 3	CWT-2, 3	MRGYP/PT-6	2,3
	TYPICAL MECAHNICAL	SC	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
218	STAFF TOILET	EQF-1	EQB-1	CWT-2, 3	CWT-2, 3	CWT-2, 3	CWT-2, 3	MRGYP/PT-6	2,3
219	ELECTRICAL	SC	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
220	ALCOVE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
224	JANITOR	EQF-1	EQB-1	CWT-3	CWT-3	CWT-3	CWT-3	MRGYP/PT-6	2,3
225	ALCOVE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
226	COMM	SDT-1	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
227	STORAGE	LVT-5	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
228	BRIDGE	LVT-1, 2	RB-1	PT-1	PT-1	PT-1	PT-1	VARIES*	12
228A	MAKER SPACE	LVT-5	RB-1	GLASS	PT-1	GLASS	GLASS	SWPS	4, 5, 16
260	MECHANICAL	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OTS	
261	MECHANICAL	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OTS	
262	WEST HALLWAY	LVT 1-4	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1/MRGYP/PT-6	13, 14
TEACHER'S LOUNGE									
L101	MEN'S RESTROOM	EQF-1	EQB-1	CWT-1,2	CWT-1,2	CWT-1,2	CWT-1,2	MRGYP/PT-6	2, 3
L102	WOMEN'S RESTROOM	EQF-1	EQB-1	CWT-1,2	CWT-1,2	CWT-1,2	CWT-1,2	MRGYP/PT-6	2, 3
L103	WOMEN'S TOILET	EQF-1	EQB-1	CWT-1,2	CWT-1,2	CWT-1,2	CWT-1,2	MRGYP/PT-6	2, 3
L104	MEN'S TOILET	EQF-1	EQB-1	CWT-1,2	CWT-1,2	CWT-1,2	CWT-1,2	MRGYP/PT-6	2, 3
L105	TEACHER LOUNGE	LVT-5	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
L106	STORAGE	SC	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	
L107	MECHANICAL	SC	RB-1	PT-1	PT-1	PT-1	PT-1	MRGYP/PT-6	

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal: JAN SIMPSON
STATE OF FLORIDA — JAN B. SIMPSON — 100003599 — 10 OCTOBER 2024 — LICENSED INTERIOR DESIGNER

Project No.: 83X98735

Drawing Title: FINISH SCHEDULES

Date: 10 OCTOBER 2024

Designed By: RH
Drawn By: JBS
Checked By: RH

Drawing No.: I-601

MATERIAL LEGEND

FLOORING

CPT	CARPET TILE
CPT-1	INTERFACE PATTERN: STRAIGHT EDGE COLOR: 102862 NAVY SIZE: 20" X 20"
EQF	EPOXY QUARTZ FLOORING
EQF-1	DEX-O-TEX DECOR-FLOR QUARTZ COLOR: DFS-B-01
RT	RUBBER TILE (STAIR LANDINGS)
RT-1	TARKETT PATTERN: COLOR SPLASH COLOR: LAKE COUR D'ALENE CB SIZE: 24" X 24"
SDT	STATIC DISSIPATIVE TILE
SDT-1	ROPPE PATTERN: ESD FIESTA COLOR: F331 CREMA SIZE: 24" X 24"
SPF	SEAMLESS POURED FLOOR
SPF-1	SIKA PULASTIC CLASSIC PATTERN: LEVEL 100 COLOR: SKY BLUE 305 THICKNESS: 10mm
SPF-2	SIKA PULASTIC CLASSIC PATTERN: LEVEL 100 COLOR:STONE GRAY 504 THICKNESS: 10mm
LVT	LUXURY VINYL TILE
LVT-1	TARKETT PATTERN: COLOR WEAVE COLOR: IVORY C160 SIZE: 18" X 18"
LVT-2	TARKETT PATTERN: COLOR WEAVE CUSTOM COLOR: PCWE 11961 SIZE: 18" X 18"
LVT-3	TARKETT PATTERN: COLOR WEAVE CUSTOM COLOR: PCWE 11998 SIZE: 18" X 18"
LVT-4	TARKETT PATTERN: COLOR WEAVE CUSTOM COLOR: PCWE 11962 SIZE: 18" X 18"
LVT-5	INTERFACE PATTERN: TEXTURED WOODGRAINS COLOR: ANTIQUE OAK A00415 SIZE: 25cm X 1m

WALL BASE

RB	RUBBER WALL BASE
RB-1	JOHNSONITE PATTERN: TRADITIONAL, 4" HIGH COLOR: 09 CLAY

WALL BASE

EQB	EPOXY QUARTZ BASE
EQB-1	DEX-O-TEX DECOR-FLOR QUARTZ COLOR: DFS-B-01, 4" HIGH

WALLS

PT	PAINT
PT-1	SHERWIN WILLIAMS COLOR: SW 7036 ACCESSIBLE BEIGE
PT-2	SHERWIN WILLIAMS COLOR: SW 9045 BORA BORA SHORE
PT-3	SHERWIN WILLIAMS COLOR: SW 6767 AQUARIUM
PT-4	SHERWIN WILLIAMS COLOR: SW 6717 LIME RICKEY
CWT	CERAMIC WALL TILE
CWT-1	CROSSVILLE PATTERN: HIDE AND SLEEK COLOR: CHALK HSL01 SIZE: 12X36 INSTALLED STRAIGHT
CWT-2	URBAN COAST TILE PATTERN: SHEER COLOR: TURQUESA SIZE: 8X24
CWT-3	DAL TILE PATTERN: COMPOSITION COLOR: CANVAS GLOSSY CP03 SIZE: 12X24 INSTALLED STRAIGHT

CEILINGS

ACT	ACOUSTICAL CEILING TILE
ACT-1	ARMSTRONG PATTERN: ULTIMA COLOR: #1941,WHITE SIZE: 24"X24", SQUARE TEGULAR
MRGYP	PAINTED GYPSUM BOARD
PT-6	SHERWIN WILLIAMS COLOR: SW7007 CEILING BRIGHT WHITE
SWPS	SIMULATED WOOD PANEL SYSTEM
SWPS-1	ARMSTRONG PATTERN: ULTIMA COLOR: #1941,WHITE SIZE: 24"X24", SQUARE TEGULAR

MILLWORK

DR	DOORS
WD	WOOD DOORS TO MATCH NATURAL OAK
PT	DOOR FRAMES
PT-5	SHERWIN WILLIAMS COLOR: SW 7549 STUDIO TAUPE
SS	SOLID SURFACE
SS-1	WILSONART COLOR: 9200CS MYSTIQUE
SS-2	WISONART COLOR: 9070ML ARCTIC MELANGE

MILLWORK

PL	PLASTIC LAMINATE
PL-1	WILSONART COLOR: 7925-38 MONTICELLO MAPLE FINE VELVET FINISH
PL-2	FORMICA COLOR: 7708-58 FLAX GAUZE MATTE FINISH
PL-3	FORMICA COLOR: 463-PX SAIL WHITE PLEX FINISH
PL-4	WILSONART COLOR: D502K-18 OCEAN LINEARITY FINISH
PL-5	WILSONART COLOR: D498K-18 ISLAND LINEARITY FINISH

MISCELLANEOUS

GR	GROUT
GR-1	CUSTOM BUILDING PRODUCTS COLOR: #11 SNOW WHITE, EPOXY FOR WALLS
TP	TOILET PARTITIONS
TP-1	SCRANTON HINEY HIDERS COLOR: NICKEL, ORANGE PEEL
ST	STAIR TREAD, NOSING & RISERS
ST-1	ROPPE PATTERN: RAISED CIRCULAR COLOR: 654 LAGOON
RS	ROLLER SHADES
RS-1	HUNTER DOUGLAS SHEER WEAVE 4500 MANUAL, 5% OPENNESS COLOR: LINEN
MAT	WALL PROTECTION MATS
	JAYPRO SPORTS WALLGUARD JWP-I-26ZZ COLOR: ROYAL BLUE PMS 301U 24"W X 72"H X 2" THICK Z-CLIP INSTALL-TOP AND BOTTOM
AP	ACOUSTICAL PANELS
AP-1	G&S ACOUSTICS AP 2, 2" THICK FABRIC: STANDARD: GUILFORD OF MAINE ANCHORAGE COLOR: WATERFALL 2691 SIZE: VARIES - SEE AV PACKAGE
CG	CORNER GUARDS
CG-1	CS GROUP - ACROVYN PATTERN: SSM-10N, 2" FLANGE COLOR: PUMAS, #858 SIZE: TO TOP OF DOOR FRAMES
WB	WHITE BOARDS
WB-1	CLARIDGE - LCS DELUXE LCS2044R PORCELAIN COLOR: WHITE SIZE: 48" X 48", 5/8" ALUMINUM FRAME
WB-2	CLARIDGE - LCS DELUXE LCS2410R PORCELAIN COLOR: WHITE SIZE: 48" X 10'-0"", 5/8" ALUMINUM FRAME

GENERAL NOTES

1. COUNTERTOPS AND VANITIES IN WET AREAS TO BE TO BE SOLID SURFACE WITH INTEGRAL BOWL.
2. EPOXY QUARTZ FLOOR WITH INTEGRAL 4" BASE.
3. CWT WALL TILE PATTERN ALL WALLS. FULL HEIGHT. SEE ELEVATION SHEET I-605.
4. LVT FLOOR PATTERN. LVT-2 PLACED NEAR WALL OPPOSITE MILLWORK. SEE SHEET I-605 FOR LAYOUT.
5. SIMULATED WOOD PANEL SYSTEM. SEE RCP IN ARCHITECTURAL.
6. TRANSACTION COUNTER TO BE SS-2.
7. CPT-1 TO BE INSTALLED QUARTER TURNED.
8. BASE AND UPPER CABINETS TO BE HP LAMINATE. SEE ELEVATIONS ON ARCHITECTURAL SHEETS.
9. WALL MATS TO BE USED ON ALL WALLS.
10. ACOUSTICAL PANELS (AP-1) TO BE INSTALLED IN VARIOUS LOCATIONS INCLUDING ATRIUM, MULTIPURPOSE ROOM AND HALLWAY 122. SEE AV PACKAGE SHEETS AV-300 THROUGH AV-303 FOR LOCATION AND SIZES OF UNITS.
11. COLUMNS TO BE WRAPPED IN ALUMINUM COMPOSITE COVERS. SEE ARCHITECTURAL.
12. MULTIPLE CEILING FINISHES. FOR EXTENTS OF CEILING FINISHES, SEE RCP IN ARCHITECTURAL.
13. TYPICAL CORRIDOR FLOOR PATTERN. SEE SHEET I-605 FOR LAYOUT.
14. ACCENT WALL - SEE FINISH PLANS FOR EXTENTS.
15. SEE SHEET I-605 FOR ELEVATIONS AND DETAILS.

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILES
AP	ACOUSTICAL PANELS
CG	CORNER GUARDS
CWT	CERAMIC WALL TILE
EQF	EPOXY QUARTZ FLOORING
EQB	EPOXY QUARTZ BASE
EXPOSED	EXPOSED TO ABOVE
GLASS	GLASS-1 WALL OR ENTRY
LVT	LUXURY VINYL TILE
MAT	WALL MATS
MRGYP	MOISTURE RESISTANT GYP BOARD
OTS	OPEN TO STRUCTURE
PL	PLASTIC LAMINATE
PT	PAINT
RB	RUBBER BASE
RS	ROLLER SHADES
RT	RUBBER TILE
SC	SEALED CONCRETE
SDT	STATIC DISSIPATIVE TILE
SPF	SEAMLESS POURED FLOORING
SS	SOLID SURFACE
ST	STAIR TREAD
SWPS	SIMULATED WOOD PANEL SYSTEM
VARIES	MULTIPLE FINISHES SEE RCP
WB	WHITE BOARD

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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DESTIN ELEMENTARY SCHOOL
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Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
JAN SIMPSON
Digitally signed by JAN.SIMPSON
DN: OU=Solomon Design Group, No=1, CN=JAN SIMPSON, E=sdgmemorial@gmail.com
Reason: I am the author of this document
Location:
Date: 2024.10.10 09:15:00-05'00'
Foxit PDF Editor Version: 12.0.0

STATE OF FLORIDA · JAN S. SIMPSON · 100003599 · 10 OCTOBER 2024 · LICENSED INTERIOR DESIGNER

Project No.: 83X98735

Drawing Title:

COLOR LEGEND - FINISH NOTES

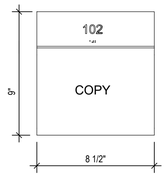
Date: 10 OCTOBER 2024

Designed By: RH
Drawn By: JBS
Checked By: RH

Drawing No.: I-602

SIGN NO.	HEADER- PERMANENT COPY	SIGN TYPE	SECOND LINE COPY	REMARKS
FIRST FLOOR				
1	CONFERENCE - 102	B	IN USE/AVAILABLE	MOUNTING TYPE 1
2	GUIDANCE 1 - 103	B	IN USE/AVAILABLE	MOUNTING TYPE 1
3	GUIDANCE 2 - 104	B	IN USE/AVAILABLE	MOUNTING TYPE 1
4	OFFICE - 105	A		MOUNTING TYPE 1
5	FILES - 106	A		MOUNTING TYPE 1
6	WORK - 107	A		MOUNTING TYPE 1
7	BOOKKEEPING - 108	A		MOUNTING TYPE 1
8	STORAGE - 101A	C		MOUNTING TYPE 1
9	STORAGE - 108A	C		MOUNTING TYPE 1
10	CLINIC - 109	A		MOUNTING TYPE 1
11	BATHROOM - 109B	D		MOUNTING TYPE 1
12	STORAGE - 109A	C		MOUNTING TYPE 1
13	COMM - 116	C		MOUNTING TYPE 1
14	OFFICE - 110	A		MOUNTING TYPE 1
15	PRINCIPAL - 111	A		MOUNTING TYPE 1
16	TOILET - 111A	D		MOUNTING TYPE 1
17	PRINCIPAL - 111	A		MOUNTING TYPE 1
18	AP - 113	A		MOUNTING TYPE 1
19	AP - 113	A		MOUNTING TYPE 1
20	SMALL CONFERENCE - 112	B	IN USE/AVAILABLE	MOUNTING TYPE 1
21	ELECTRICAL - 115	C		MOUNTING TYPE 1
22	JANITOR - 114	C		MOUNTING TYPE 1
23	TOILET - 101E	D		MOUNTING TYPE 1
24	TOILET - 101F	D		MOUNTING TYPE 1
25	STORAGE - 101D	C		MOUNTING TYPE 1
26	MECHANICAL - 120	C		EXTERIOR SIGN
27	MULTIPURPOSE - 121 QTY (4)	A		EXTERIOR SIGN
28	STORAGE - 119	C		MOUNTING TYPE 1
29	OFFICE - 117	A		MOUNTING TYPE 1
30	WOMEN'S TOILET - 123	F		EXTERIOR SIGN
31	MEN'S TOILET - 124	E		EXTERIOR SIGN
32	MECH/RISER - 126	C		MOUNTING TYPE 1
33	CLASSROOM - 133	A		MOUNTING TYPE 1
34	VESTIBULE - 136	A		MOUNTING TYPE 1
35	TEACHER - 137	A		MOUNTING TYPE 1
36	TOILET - 134	D		MOUNTING TYPE 1
37	TOILET - 135	D		MOUNTING TYPE 1
38	VESTIBULE - 136	A		MOUNTING TYPE 1
39	TEACHER - 137	A		MOUNTING TYPE 1
40	ELEC/COMM - 130A	C		MOUNTING TYPE 1
41	CLASSROOM - 138	A		MOUNTING TYPE 1
42	CLASSROOM - 141	A		MOUNTING TYPE 1
43	TEACHER - 142	A		MOUNTING TYPE 1
44	TOILET - 143	D		MOUNTING TYPE 1
45	TOILET - 144	D		MOUNTING TYPE 1
46	ELEC - 150	C		MOUNTING TYPE 1
47	JANITOR - 145	C		MOUNTING TYPE 1
48	COMM - 149A	C		MOUNTING TYPE 1
49	TOILET - 140A	D		MOUNTING TYPE 1
50	TEACHER - 147	A		MOUNTING TYPE 1
51	CLASSROOM - 140	A		MOUNTING TYPE 1
52	CLASSROOM - 139	A		MOUNTING TYPE 1
53	TEACHER - 128	A		MOUNTING TYPE 1
54	VESTIBULE - 129	A		MOUNTING TYPE 1
55	TOILET - 131	D		MOUNTING TYPE 1
56	TOILET - 132	D		MOUNTING TYPE 1
57	VESTIBULE - 129	A		MOUNTING TYPE 1
58	TEACHER - 128	A		MOUNTING TYPE 1
59	STORAGE - 130B	C		MOUNTING TYPE 1

SIGN NO.	HEADER- PERMANENT COPY	SIGN TYPE	REMARKS
FIRST FLOOR			
60	CLASSROOM - 127	A	MOUNTING TYPE 1
61	CLASSROOM - 153	A	MOUNTING TYPE 1
62	VESTIBULE - 155	A	MOUNTING TYPE 1
63	TEACHER - 154	A	MOUNTING TYPE 1
64	TOILET - 156	D	MOUNTING TYPE 1
65	TOILET - 157	D	MOUNTING TYPE 1
66	VESTIBULE - 155	A	MOUNTING TYPE 1
67	TEACHER - 154	A	MOUNTING TYPE 1
68	STORAGE - 152B	C	MOUNTING TYPE 1
69	CLASSROOM - 169	A	MOUNTING TYPE 1
70	CLASSROOM - 170	A	MOUNTING TYPE 1
71	VESTIBULE - 172	A	MOUNTING TYPE 1
72	TEACHER - 171	A	MOUNTING TYPE 1
73	TOILET - 173	D	MOUNTING TYPE 1
74	TOILET - 174	D	MOUNTING TYPE 1
75	VESTIBULE - 172	A	MOUNTING TYPE 1
76	TEACHER - 171	A	MOUNTING TYPE 1
77	ELEC/COMM - 152D	C	MOUNTING TYPE 1
78	CLASSROOM - 181	A	MOUNTING TYPE 1
79	CLASSROOM - 182	A	MOUNTING TYPE 1
80	TEACHER - 183	A	MOUNTING TYPE 1
81	TOILET - 184	D	MOUNTING TYPE 1
82	MECH/ELEC - 186	C	MOUNTING TYPE 1
83	WEST HALLWAY	C	EXTERIOR SIGN
84	STORAGE	C	EXTERIOR SIGN
85	CLASSROOM - 187	A	MOUNTING TYPE 1
86	CLASSROOM - 180	A	MOUNTING TYPE 1
87	STORAGE - 152C	C	MOUNTING TYPE 1
88	VESTIBULE - 177	A	MOUNTING TYPE 1
89	TEACHER - 176	A	MOUNTING TYPE 1
90	TOILET - 179	D	MOUNTING TYPE 1
91	TOILET - 178	D	MOUNTING TYPE 1
92	VESTIBULE - 177	A	MOUNTING TYPE 1
93	TEACHER - 176	A	MOUNTING TYPE 1
94	CLASSROOM - 175	A	MOUNTING TYPE 1
95	CLASSROOM - 168	A	MOUNTING TYPE 1
96	VESTIBULE - 160	A	MOUNTING TYPE 1
97	TEACHER - 159	A	MOUNTING TYPE 1
98	TOILET - 162	D	MOUNTING TYPE 1
99	TOILET - 161	D	MOUNTING TYPE 1
100	TEACHER - 159	A	MOUNTING TYPE 1
101	VESTIBULE - 160	A	MOUNTING TYPE 1
102	CLASSROOM - 158	A	MOUNTING TYPE 1
103	STORAGE - 152A	C	EXTERIOR SIGN
183	MEN'S - L104	E	MOUNTING TYPE 1
184	WOMEN'S - L103	F	MOUNTING TYPE 1
185	MECHANICAL - L107	C	EXTERIOR SIGN
186	STORAGE - L106	C	EXTERIOR SIGN
187	TEACHER LOUNGE - L105	A	EXTERIOR SIGN
188	MEN'S RESTROOM - L101	E	EXTERIOR SIGN
189	WOMEN'S RESTROOM - L102	F	EXTERIOR SIGN
190	TO CLASSROOMS	A	EXTERIOR SIGN
191	EAST STAIR	A	MOUNTING TYPE 1
192	ELECTRICAL - 118	C	EXTERIOR SIGN
193	OFFICE - 117	A	EXTERIOR SIGN
194	ADMINISTRATION	A	EXTERIOR SIGN



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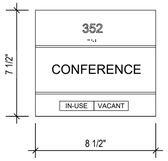
NTS



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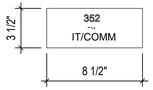

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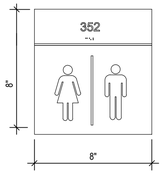

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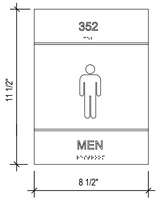
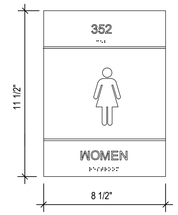


SIGN TYPE E
NTS

NOTES

1. MOUNT @ 5'-0" ABOVE FINISHED FLOOR TO CENTER LINE OF SIGN
2. LETTERS AND NUMERALS SHALL BE RAISED 1/32", UPPER CASE, SANS SERIF AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE.
3. COLORS: TO BE SELECTED BY TPM
4. LETTERS AND NUMBERS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1, AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.
5. DETAILS SHOWN ARE FOR TYPE ONLY.
6. SEE SHEET I-604 FOR ADDITIONAL SCHEDULES.



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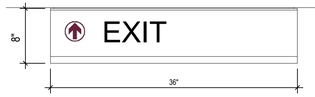

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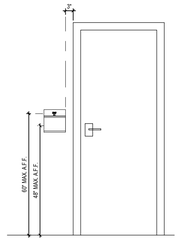

SIGN MOUNTING TYPE 1
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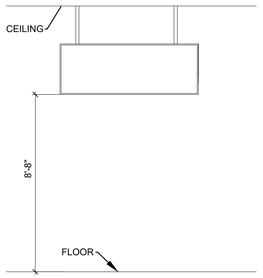

SIGN MOUNTING TYPE 2
NTS

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Heffernan Holland Morgan Architecture, P.A.
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Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
JAN SIMPSON
Digitally signed by JAN SIMPSON
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Reason: I am the author of this document
Location:
Date: 2024.10.10 09:51:55-05'00'
Foxit PDF Editor Version: 12.0.0

STATE OF FLORIDA · JAN B. SIMPSON · 10000599 · 10 OCTOBER 2024 · LICENSED INTERIOR DESIGNER

Project No.: 83X98735

Drawing Title:
SIGNAGE SCHEDULE AND TYPES

Date: 10 OCTOBER 2024

Designed By: RH
Drawn By: JBS
Checked By: RH

Drawing No.: I-603

SIGN NO.	HEADER- PERMANENT COPY	SIGN TYPE	REMARKS
SECOND FLOOR			
104	CLASSROOM - 235	A	MOUNTING TYPE 1
105	VESTIBULE - 238	A	MOUNTING TYPE 1
106	TEACHER - 239	A	MOUNTING TYPE 1
107	TOILET - 328	D	MOUNTING TYPE 1
108	TOILET - 239	D	MOUNTING TYPE 1
109	VESTIBULE - 238	A	MOUNTING TYPE 1
110	TEACHER - 239	A	MOUNTING TYPE 1
111	MECH - M15	C	MOUNTING TYPE 1
112	CLASSROOM - 240	A	MOUNTING TYPE 1
113	CLASSROOM - 247	A	MOUNTING TYPE 1
114	VESTIBULE - 250	A	MOUNTING TYPE 1
115	TEACHER - 251	A	MOUNTING TYPE 1
116	TOILET - 249	D	MOUNTING TYPE 1
117	TOILET - 248	D	MOUNTING TYPE 1
118	VESTIBULE - 250	A	MOUNTING TYPE 1
119	TEACHER - 251	A	MOUNTING TYPE 1
120	MECH - M17	C	MOUNTING TYPE 1
121	CLASSROOM - 252	A	MOUNTING TYPE 1
122	CLASSROOM - 257	A	MOUNTING TYPE 1
123	TEACHER - 258	A	MOUNTING TYPE 1
124	TOILET - 259	D	MOUNTING TYPE 1
125	MECHANICAL - 260	C	MOUNTING TYPE 1
126	MECHANICAL - 261	C	MOUNTING TYPE 1
127	WEST STAIR	A	MOUNTING TYPE 1
128	WEST HALLWAY	A	MOUNTING TYPE 1
129	CLASSROOM - 254	A	MOUNTING TYPE 1
130	CLASSROOM - 253	A	MOUNTING TYPE 1
131	TEACHER - 243	A	MOUNTING TYPE 1
132	VESTIBULE - 244	A	MOUNTING TYPE 1
133	TOILET - 246	D	MOUNTING TYPE 1
134	TOILET - 245	D	MOUNTING TYPE 1
135	VESTIBULE - 244	A	MOUNTING TYPE 1
136	TEACHER - 243	A	MOUNTING TYPE 1
137	MECH - M16	C	MOUNTING TYPE 1
138	CLASSROOM - 242	A	MOUNTING TYPE 1
139	CLASSROOM - 241	A	MOUNTING TYPE 1
140	TEACHER - 230	A	MOUNTING TYPE 1
141	VESTIBULE - 231	A	MOUNTING TYPE 1
142	TOILET - 234	D	MOUNTING TYPE 1
143	TOILET - 232	D	MOUNTING TYPE 1
144	VESTIBULE - 231	A	MOUNTING TYPE 1
145	TEACHER - 230	A	MOUNTING TYPE 1
146	CLASSROOM - 229	A	MOUNTING TYPE 1
147	MECH - M14	C	MOUNTING TYPE 1
148	MECHANICAL - 202B	A	MOUNTING TYPE 1
149	CLASSROOM - 203	A	MOUNTING TYPE 1
150	VESTIBULE - 211	A	MOUNTING TYPE 1
151	TEACHER - 212	A	MOUNTING TYPE 1
152	TOILET - 210	D	MOUNTING TYPE 1
153	TOILET - 209	D	MOUNTING TYPE 1
154	VESTIBULE - 211	A	MOUNTING TYPE 1
155	TEACHER - 212	A	MOUNTING TYPE 1
156	MECH - M11	C	MOUNTING TYPE 1
157	CLASSROOM - 214	A	MOUNTING TYPE 1
158	CLASSROOM - 215	A	MOUNTING TYPE 1

NOTES

1. MOUNT @ 5'-0" ABOVE FINISHED FLOOR TO CENTER LINE OF SIGN
2. LETTERS AND NUMERALS SHALL BE RAISED 1/32", UPPER CASE, SANS SERIF AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE.
3. COLORS: TO BE SELECTED BY TPM
4. LETTERS AND NUMBERS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1, AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.

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Heffernan Holland Morgan Architecture, P.A.
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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

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STATE OF FLORIDA
JAN B. SIMPSON
100003599
10 OCTOBER 2024
LICENSED INTERIOR DESIGNER

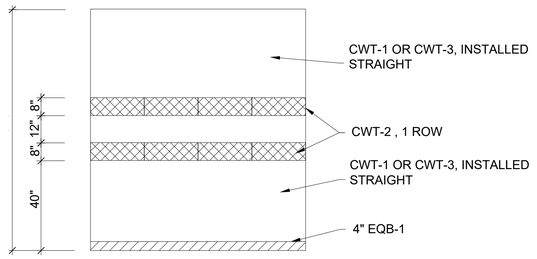
Project No.: 83X98735

Drawing Title:
SIGNAGE SCHEDULES

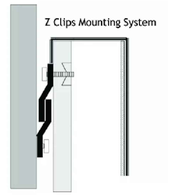
Date: 10 OCTOBER 2024

Designed By: RH
Drawn By: JBS
Checked By: RH

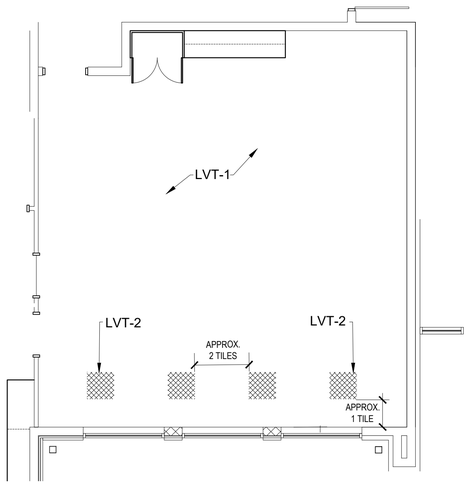
Drawing No.: I-604



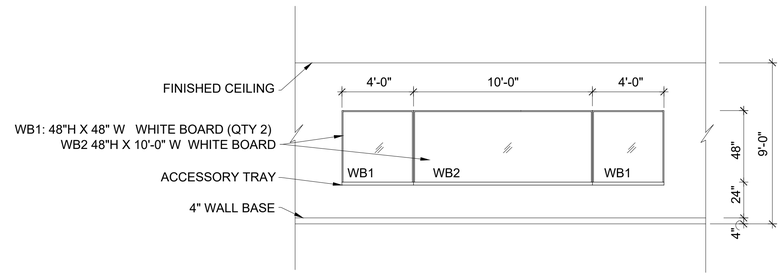
RESTOOM WALLS - TYP
NTS



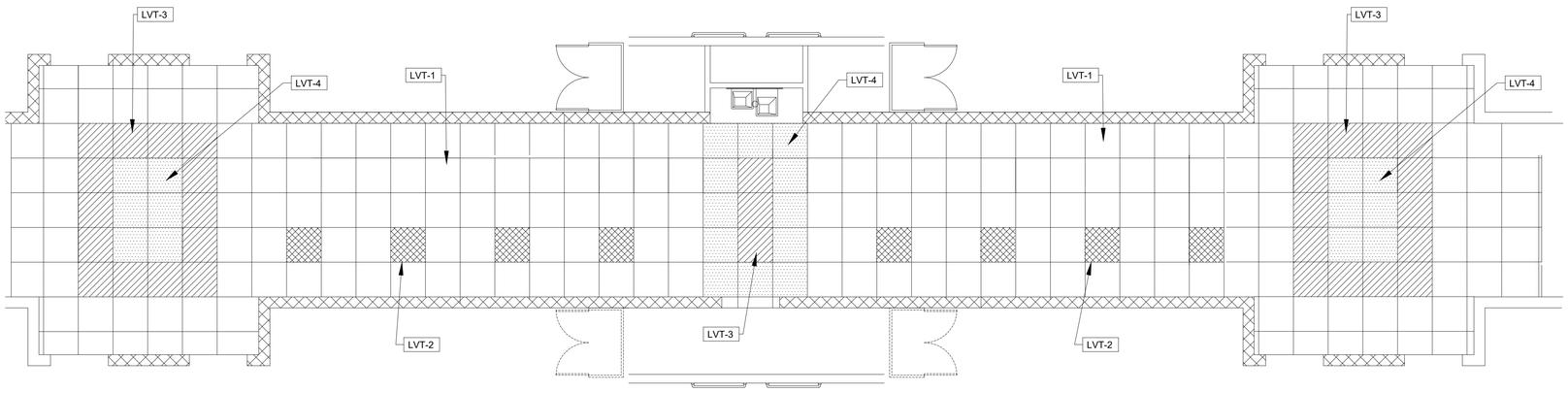
WALL MAT INSTALLATION - TYP
NTS



CLASSROOM FLOOR PATTERN - TYP
NTS



WHITEBOARD MOUNTING HEIGHTS - TYP ALL CLASSROOMS
SCALE: 1/4" = 1'-0"



LVT PATTERN - TYP HALLWAYS
SCALE: 1/2"=1'-0"

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILES
AP	ACOUSTICAL PANELS
CG	CORNER GUARDS
CWT	CERAMIC WALL TILE
EQF	EPOXY QUARTZ FLOORING
EQB	EPOXY QUARTZ BASE
EXPOSED	EXPOSED TO ABOVE
GLASS	GLASS-1 WALL OR ENTRY
LVT	LUXURY VINYL TILE
MAT	WALL MATS
MRGYP	MOISTURE RESISTANT GYP BOARD
OTS	OPEN TO STRUCTURE
PL	PLASTIC LAMINATE
PT	PAINT
RB	RUBBER BASE
RS	ROLLER SHADES
RT	RUBBER TILE
SC	SEALED CONCRETE
SDT	STATIC DISSIPATIVE TILE
SPF	SEAMLESS POURED FLOORING
SS	SOLID SURFACE
ST	STAIR TREAD
SWPS	SIMULATED WOOD PANEL SYSTEM
VARIES	MULTIPLE FINISHES SEE RCP
WB	WHITE BOARD

COLOR LEGEND

LVT-1	TARKETT, COLOR POP, BLANCA C136
LVT-2	TARKETT, COLOR POP, SANDPIPER C172
LVT-3	TARKETT, COLOR POP, BERMUDA C127
LVT-4	TARKETT, COLOR POP, SORBET C176

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DESTIN ELEMENTARY SCHOOL
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STATE OF FLORIDA
JAN B. SIMPSON
100003599
10 OCTOBER 2024
LICENSED INTERIOR DESIGNER

Project No.: 83X98735

Drawing Title:
INTERIOR ELEVATIONS & DETAILS

Date: 10 OCTOBER 2024

Designed By: RH
Drawn By: JBS
Checked By: RH

Drawing No.:
I-605

CODE COMPLIANCE SUMMARY

1. GENERAL INFORMATION

PROJECT NAME: ADDITION TO DESTIN ELEMENTARY
ADDRESS: DESTIN ELEMENTARY SCHOOL, 630 KELLY ST, DESTIN, FL 32541
OWNER: OKALOOSA COUNTY PUBLIC SCHOOLS

CONSTRUCTION DESCRIPTION: NEW CONSTRUCTION.

2. CODES AND STANDARDS

- –2023 FLORIDA BUILDING CODE, BUILDING (FBC), EIGHTH EDITION
- –2023 FLORIDA BUILDING CODE, MECHANICAL, EIGHTH EDITION
- –2023 FLORIDA BUILDING CODE, PLUMBING, EIGHTH EDITION
- –2023 FLORIDA BUILDING CODE, ENERGY CONSERVATION, EIGHTH EDITION
- –2023 FLORIDA BUILDING CODE, ACCESSIBILITY, EIGHTH EDITION
- –2023 FLORIDA FIRE PREVENTION CODE (FFPC), EIGHTH EDITION
- -- NFPA 1 FIRE CODE, 2021 EDITION
- -- NFPA 101 LIFE SAFETY CODE, 2021 EDITION

NOTE: ANYTIME A REFERENCE IS MADE TO NFPA 1 OR NFPA 101 IT SHALL BE THE FLORIDA SPECIFIC VERSION OF NFPA 1 AND NFPA 101.

- –NFPA 70 NATIONAL ELECTRIC CODE , 2020 EDITION.
- –STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (SREF), 2014 EDITION.

3. FLORIDA BUILDING CODE DATA

A. USE AND OCCUPANCY CLASSIFICATION: EDUCATIONAL GROUP E (FBC SECTION 305)
NOTE: PER FBC 453.8.1.1 THE SUPPORT SPACES SUCH AS MEDIA CENTERS, ADMINISTRATIVE OFFICES, CAFETERIAS AND KITCHENS LOCATED WITHIN EDUCATIONAL FACILITIES ARE NOT SEPARATE OCCUPANCIES.

B. HEIGHT AND NUMBER OF STORIES (FBC TABLE 504.3 &504.4):
ALLOWABLE: 75 FEET (3 STORIES)
PROVIDED: 38 FEET (2 STORY)

C. BUILDING AREA (FBC TABLE 506.2):
ALLOWABLE AREA: 101,500 SF (50,750 SF PER FLOOR)
PROVIDED AREA: 69,000 SF
(41,300 SF FIRST FLOOR & 27,700 SF SECOND FLOOR)
ALLOWABLE AREA CALCULATION:
$AA = [A_T + (NS \times I_f)]XS_A$ (IBC EQUATION 5–2 PER IBC 506.2.3)
EDUCATIONAL A_T= 43,500 SF. (TABLE 506.2)
EDUCATIONAL NS = 14,500 SF. (TABLE 506.2)
FRONTAGE INCREASE FACTOR I_f= 0.50 (TABLE 506.3.3)
NUMBER OF STORIES, S_A = 2

B. CONSTRUCTION CLASSIFICATION (FBC CHAPTER 6):
REQUIRED: NONCOMBUSTIBLE TYPE I, II OR IV (FBC 453.8.3.1)
PROVIDED: TYPE IIB
NOTE:FIRE–RETARDANT–TREATED WOOD (FRTW) SHALL NOT BE USED IN ANY PORTION OF THIS CONSTRUCTION.

C. FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (FBC TABLE 601):
- PRIMARY STRUCTURAL FRAME:
  REQUIRED: 0 HOURS
  PROVIDED: NONE
- BEARING WALLS –EXTERIOR (FBC TABLE 705.5):
  REQUIRED: 1 HOUR WITH FSD<10FT
  0 HOURS WITH FSD >10 FT
  PROVIDED: 1 HOUR AT TEACHERS LOUNGE EAST WALL.
  0 HOUR FOR OTHER EXTERIOR WALLS
- BEARING WALLS –INTERIOR:
  REQUIRED: 0 HOURS
  PROVIDED: NONE
- NON–BEARING WALLS AND PARTITIONS–EXTERIOR :
  REQUIRED: 1 HOUR WITH FSD<10FT
  0 HOURS WITH FSD >10 FT
  PROVIDED: 1 HOUR AT TEACHERS LOUNGE EAST WALL.
  0 HOUR FOR OTHER EXTERIOR WALLS
- NON–BEARING WALLS AND PARTITIONS–INTERIOR :
  REQUIRED: 0 HOURS (NONSEPARATED OCCUPANCIES. SEE PROTECTION FROM HAZARDS SECTION IN LIFE SAFETY CODE ANALYSIS SUMMARY.)
  PROVIDED: SEE PLANS AND LIFE SAFETY CODE ANALYSIS SUMMARY
- FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY STRUCTURAL MEMBERS:
  REQUIRED: 0 HOURS
  PROVIDED: NONE
- ROOF CONSTRUCTION AND ASSOCIATED SECONDARY STRUCTURAL MEMBERS:
  REQUIRED: 0 HOURS
  PROVIDED: NONE

E. MINIMUM DISTANCE OF PROJECTIONS FROM FSD LINE (FBC TABLES 705.2): SEE PLANS.

F. FIRE–RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (FBC TABLE 705.5: THE LOCATION OF THE ASSUMED IMAGINARY FIRE SEPARATION DISTANCE (FSD) LINE WITH RELATION TO THE EXISTING BUILDINGS SHALL BE SUCH THAT THE EXTERIOR WALL AND OPENING PROTECTION OF THE EXISTING BUILDING MEET THE CRITERIA AS SET FORTH IN SECTIONS FBC 705.5 AND 705.8. THE FSD LINE FROM EXISTING BUILDINGS IS 10FT FROM THE EDGE OF THE EXISTING BUILDINGS. THIS 10FT FSD ALLOWS 0 HOUR RATING FOR EXISTING EXTERIOR WALLS IN IIB AND VB CONSTRUCTION AND 15% ALLOWABLE OPENING AREA FOR NON–SPRINKLERED AND 25% ALLOWABLE OPENINGS FOR SPRINKLERED BASED ON FBC TABLE 705.5 AND TABLE 705.8. SEE PLANS.

G. VERTICAL OPENINGS (FBC SECTION 712):
- MINI–ATRIUM: COMPLY WITH FBC 712.1.9 TWO–STORY OPENINGS.
- EXIT ACCESS STAIR: EXIST ACCESS STAIR IS PERMITTED IN TWO–STORY OPENINGS PER FBC 712.1.12.

4. LIFE SAFETY CODE DATA

A. NFPA 101 OCCUPANCY CLASSIFICATION: EDUCATIONAL (NFPA 101 CHAPTER 14).

B. HAZARD OF CONTENTS CLASSIFICATION (NFPA 101 6.2.2): ORDINARY HAZARD CONTENTS

C. CONSTRUCTION TYPE: TYPE II (000)

D. OCCUPANT LOAD: SEE PLANS.

E. MEANS OF EGRESS REQUIREMENTS
- CAPACITY OF MEANS OF EGRESS (NFPA 101 TABLE 7.3.3.1):
  0.3 INCHES/PERSON FOR STAIRS OR EQUATION 7.3.3.2.
  0.2 INCHES/PERSON FOR LEVEL COMPONENTS
- CORRIDOR WIDTH (NFPA 101 14.2.3.2):
  REQUIRED: 72 INCHES OR 44 INCH WHEN SERVING 100 PERSONS OR LESS.
  PROVIDED: 120 INCHES
- NUMBER OF MEANS OF EGRESS (NFPA 101 14.2.4/7.4):
  NUMBER OF EXITS PER FLOOR REQUIRED: 2 EXITS
  NUMBER OF EXITS PER FLOOR PROVIDED: 2 OR MORE
  NOTE: THREE MEANS OF EGRESS ARE PROVIDED FROM THE SECOND FLOOR PER NFPA 101 7.4.1.2
- COMMON PATH OF TRAVEL (NFPA 101 14.2.5.2.1)
  REQUIRED: 100FT MAX
  PROVIDED: LESS THAN 100FT
- DEAD–END CORRIDORS (NFPA 101 12.2.5.3)
  REQUIRED: 50FT MAX
  PROVIDED: LESS THAN 50FT
- TRAVEL DISTANCE TO EXITS (NFPA 101 12.2.6)
  REQUIRED: 200FT MAX
  PROVIDED: LESS THAN 200FT

F. ILLUMINATION OF MEANS OF EGRESS: MEANS OF EGRESS SHALL COMPLY WITH NFPA 101 14.2.8/7.8. SEE ELECTRICAL DESIGN DRAWINGS.

G. EMERGENCY LIGHTING: EMERGENCY LIGHTING SHALL BE IN ACCORDANCE WITH NFPA 101 7.9. PER FBC 453.17.1, EMERGENCY LIGHTING SHALL BE PROVIDED AT INTERNAL AND EXTERNAL MEANS OF EGRESS, IN STUDENT–OCCUPIED AREAS, IN GROUP TOILETS, AND MAIN ELECTRICAL ROOMS.

H. MARKING OF MEANS OF EGRESS: ALL MARKING OF OF MEANS OF EGRESS SHALL BE IN ACCORDANCE WITH NFPA 101 7.10.

I. PROTECTION (NFPA 101 12.3):
- PROTECTION OF VERTICAL OPENINGS:
  –FLOOR RATING: SMOKE BARRIER.
  –COMMUNICATING SPACE: COMMUNICATING SPACE (MINI–ATRIUM) SHALL COMPLY WITH ALL REQUIREMENTS OF NFPA 101 8.6.6. INCLUDING BUT NOT LIMITED TO AUTOMATIC SMOKE DETECTION AND SEPARATION BY SMOKE BARRIER IN SPRINKLERED BUILDING.
  –ELEVATOR SHAFT:
  REQUIRED: 1HOUR
  PROVIDED: 1HOUR
  –EXIT STAIR ENCLOSURE:
  REQUIRED: 1HOUR
  PROVIDED: 1HOUR
- PROTECTION FROM HAZARDS:
  –MECHANICAL, STORAGE, JANITOR ROOMS:
  REQUIRED: SMOKE PARTITION AND SPRINKLERS
  PROVIDED: SMOKE PARTITION AND SPRINKLERS
- EXIT ACCESS CORRIDORS (NPFA 14.3.6):
  REQUIRED: SMOKE PARTITION AND SPRINKLERS
  PROVIDED: SMOKE PARTITION AND SPRINKLERS

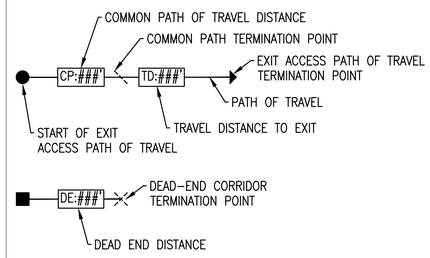
J. AUTOMATIC SPRINKLER SYSTEMS: PROVIDE PER FBC, FFPC, AND NFPA 13.

K. FIRE ALARM AND DETECTION SYSTEMS: PROVIDE PER FBC, FFPC, NFPA 70, AND NFPA 72.

LIFE SAFETY LEGEND

- 1–HOUR FIRE BARRIER
- 2–HOUR FIRE BARRIER
- SMOKE BARRIER
- SMOKE PARTITION

PORTABLE FIRE EXTINGUISHER 2–A:20–B:C.
MOUNT ON WALL BRACKET.



OCCUPANT LOAD CALCULATION
USE: BASED ON NFPA 101
A: AREA (GROSS OR NET)
OLF: OCCUPANT LOAD FACTOR (FT^2/OCC.)
OL: CALCULATED OCCUPANT LOAD

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Florida Lic. No. C001942

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(850) 434–0513
PEI 23110

Revision:

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DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal:



Project No.: 83X98735
Drawing Title:
CODE COMPLIANCE SUMMARY AND LIFE SAFETY LEGEND

Date: 10 October 2024
Designed By: EK
Drawn By: DAK
Checked By: GDP
Drawing No.: LS001

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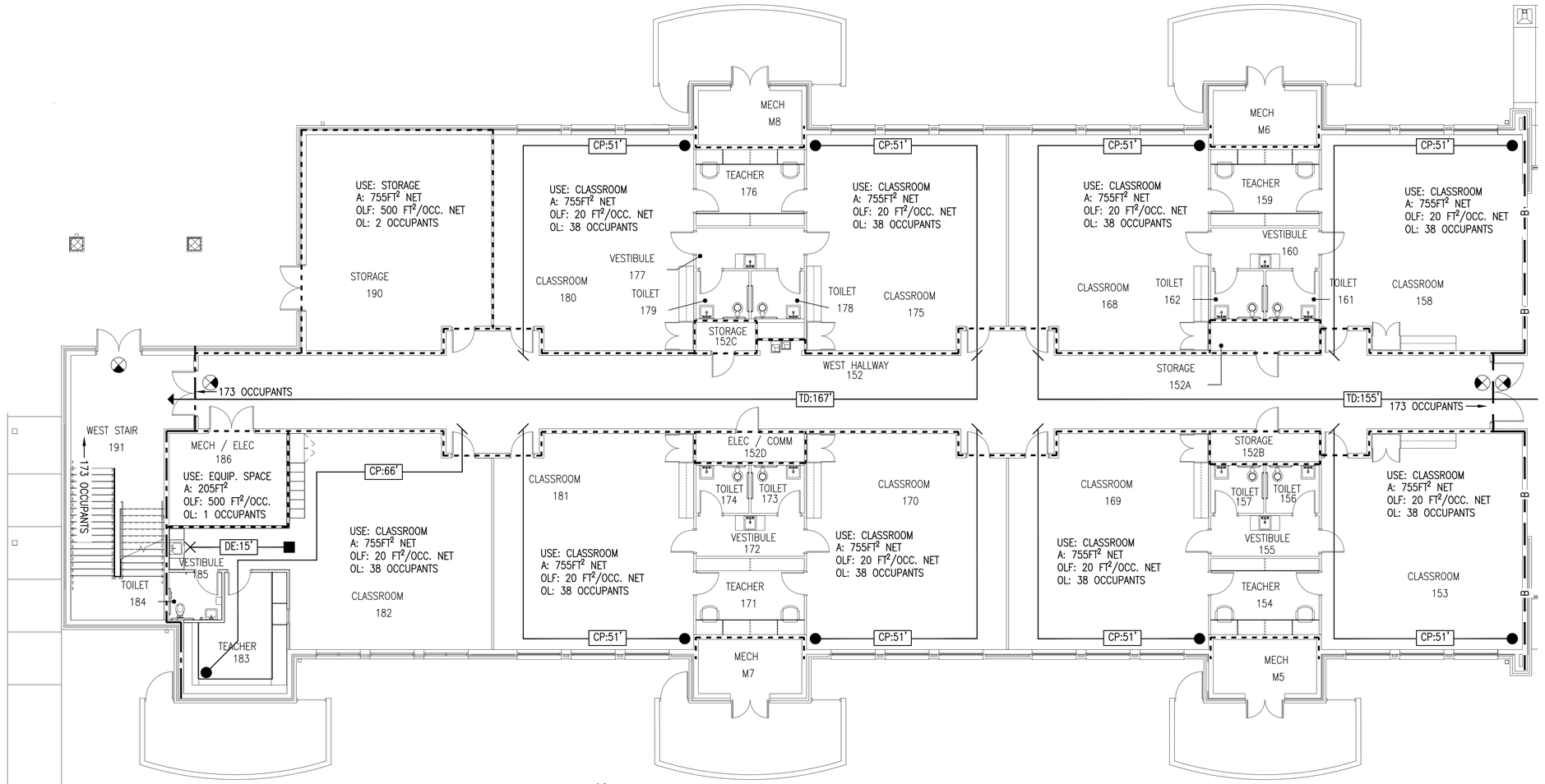
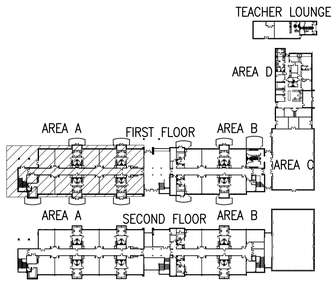


PARTIAL FIRST FLOOR LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"



KEY PLAN
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Okaloosa County, Florida

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LICENSE
No. 90730
STATE OF FLORIDA
PROFESSIONAL ENGINEER
10/10/2024

Project No.: [redacted]
Drawing Title: [redacted]
PARTIAL FIRST FLOOR LIFE SAFETY PLAN

Date: 10 October 2024
Designed By: EK
Drawn By: DAK
Checked By: GDP
Drawing No.: LS101

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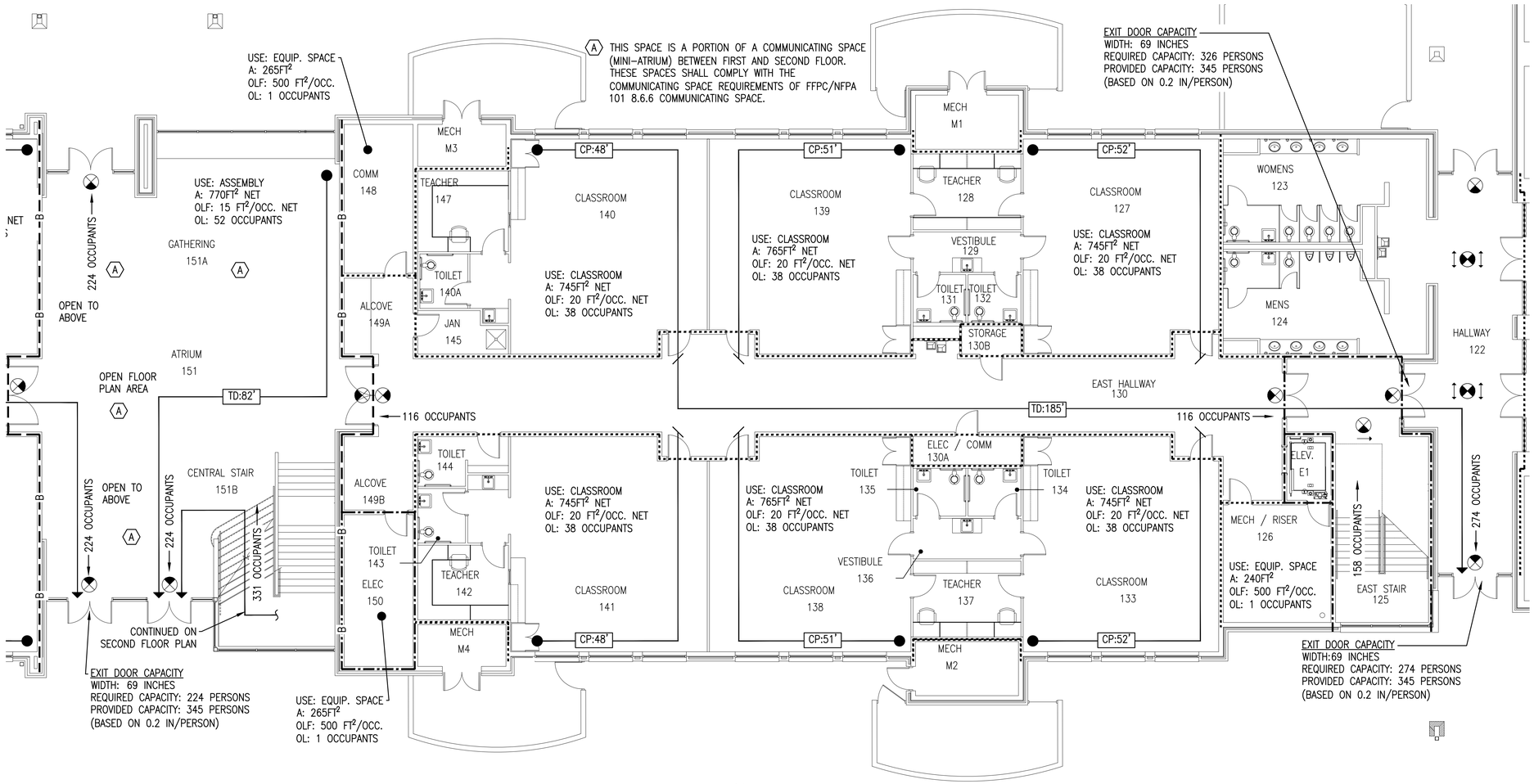

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PARTIAL FIRST FLOOR LIFE SAFETY PLAN

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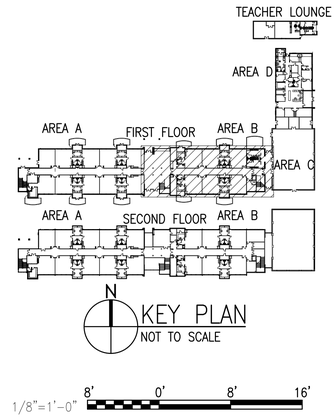

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DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

ELIJAH KIMMIG LICENSE No. 90730 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/2024

Project No.: 83X98735

Drawing Title: PARTIAL FIRST FLOOR LIFE SAFETY PLAN

Date: 10 October 2024

Designed By: EK
Drawn By: DAK
Checked By: GDP

Drawing No.: LS102

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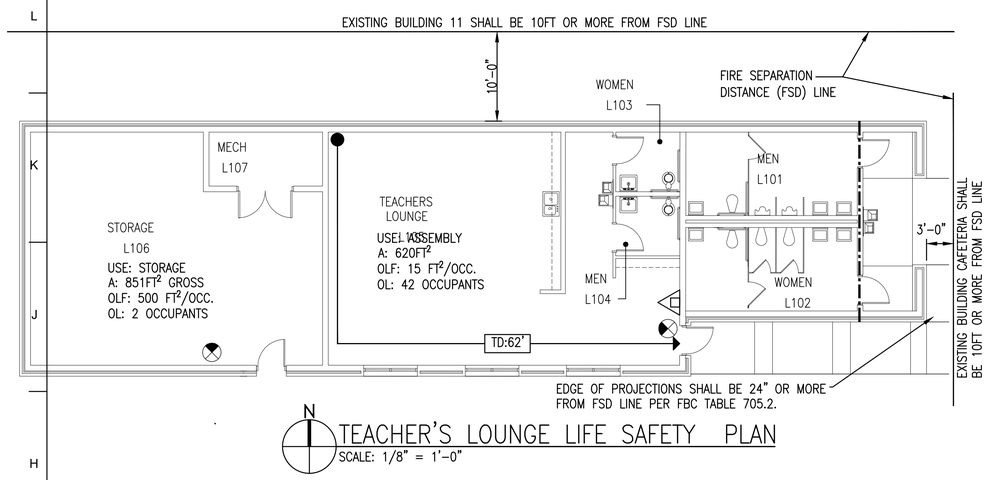

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TEACHER'S LOUNGE LIFE SAFETY PLAN

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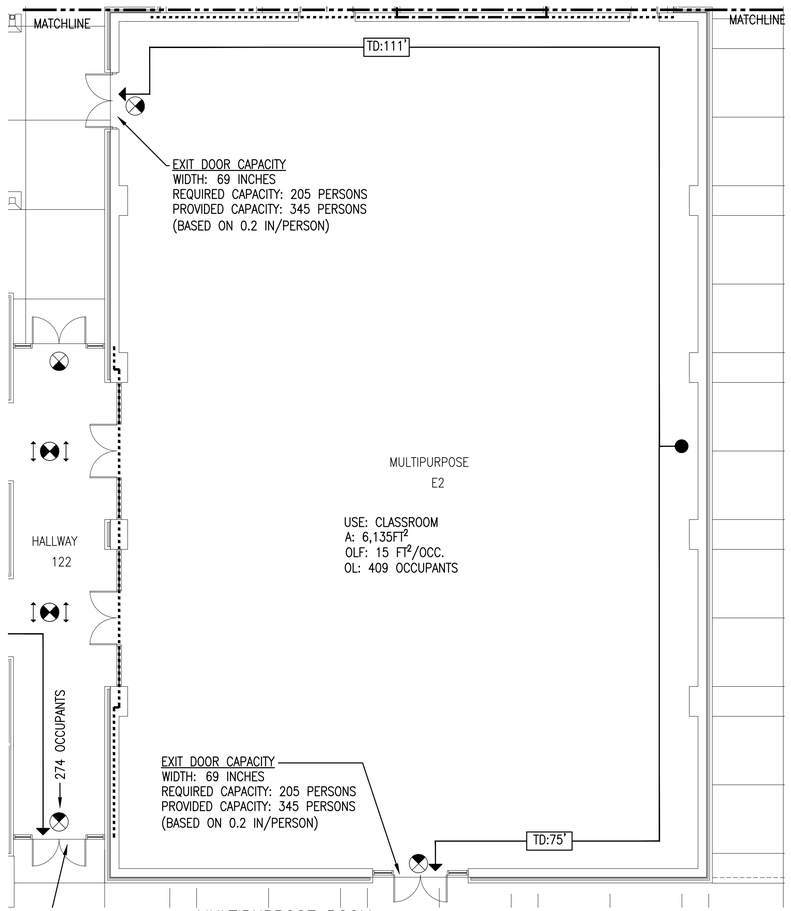
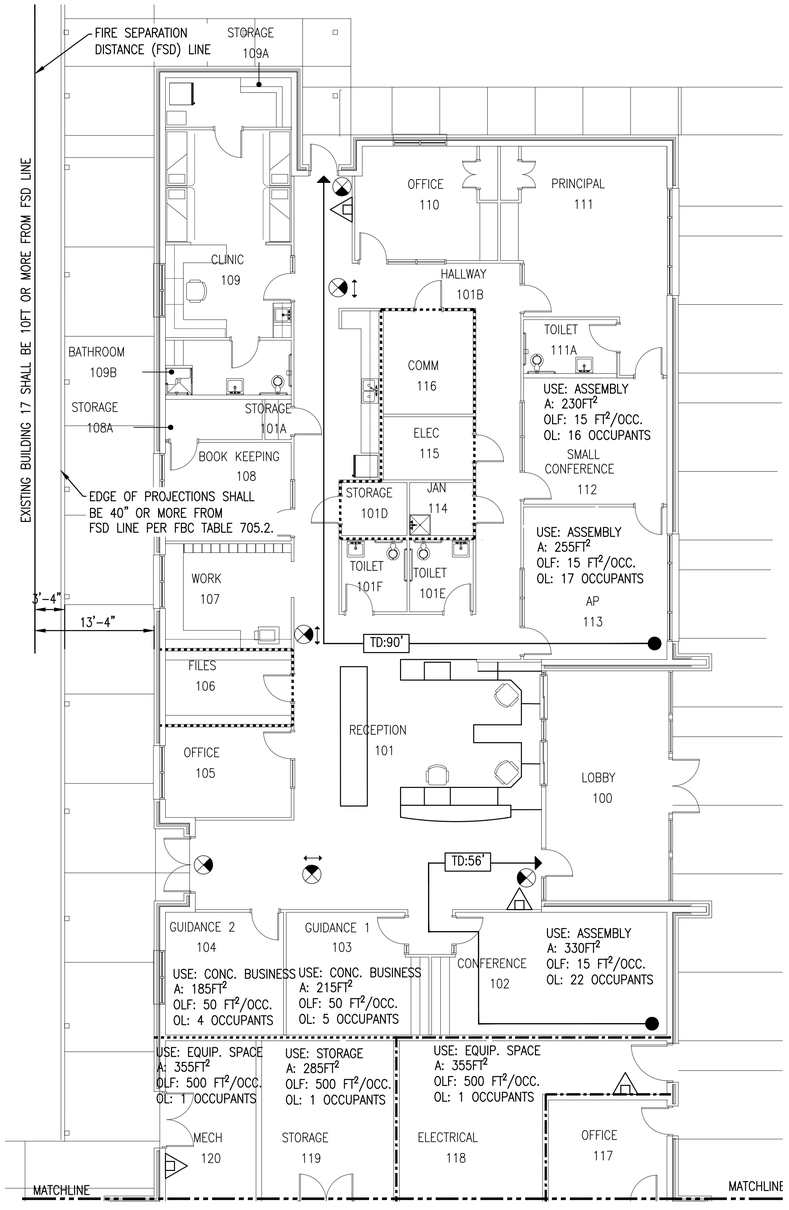
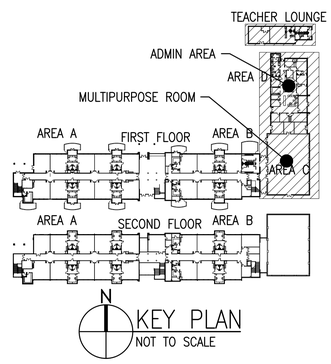


MULTIPURPOSE ROOM



ADMIN AREA



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KEY PLAN

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PARTIAL FIRST FLOOR LIFE SAFETY PLAN

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1/8"=1'-0" 8' 0' 8' 16'

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DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal:

ELIJAH KIMMIG
LICENSED
No. 80730
10/10/2024
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Project No.: 83X00725
Drawing Title:
PARTIAL FIRST FLOOR LIFE SAFETY PLAN

Date: 10 October 2024
Designed By: EK
Drawn By: DAK
Checked By: GDP
Drawing No.: LS103

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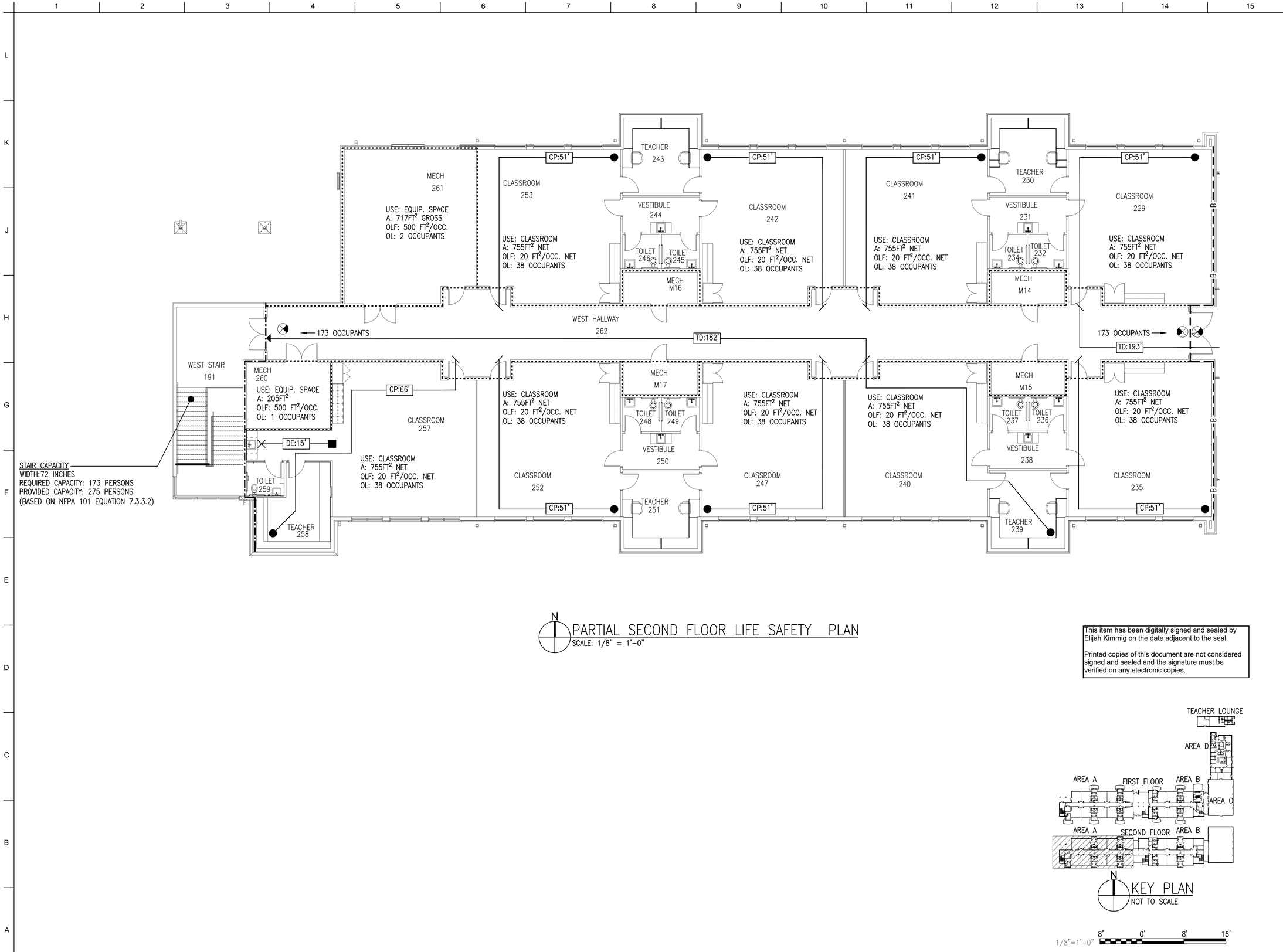

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PARTIAL SECOND FLOOR LIFE SAFETY PLAN

SCALE: 1/8" = 1'-0"

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1/8"=1'-0" 8' 0' 8' 16'

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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY • SCHOOL DISTRICT •

Seal:

ELIJAH KIMMIG
LICENSE
No. 90730
10/10/2024
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Project No.: 23X08725

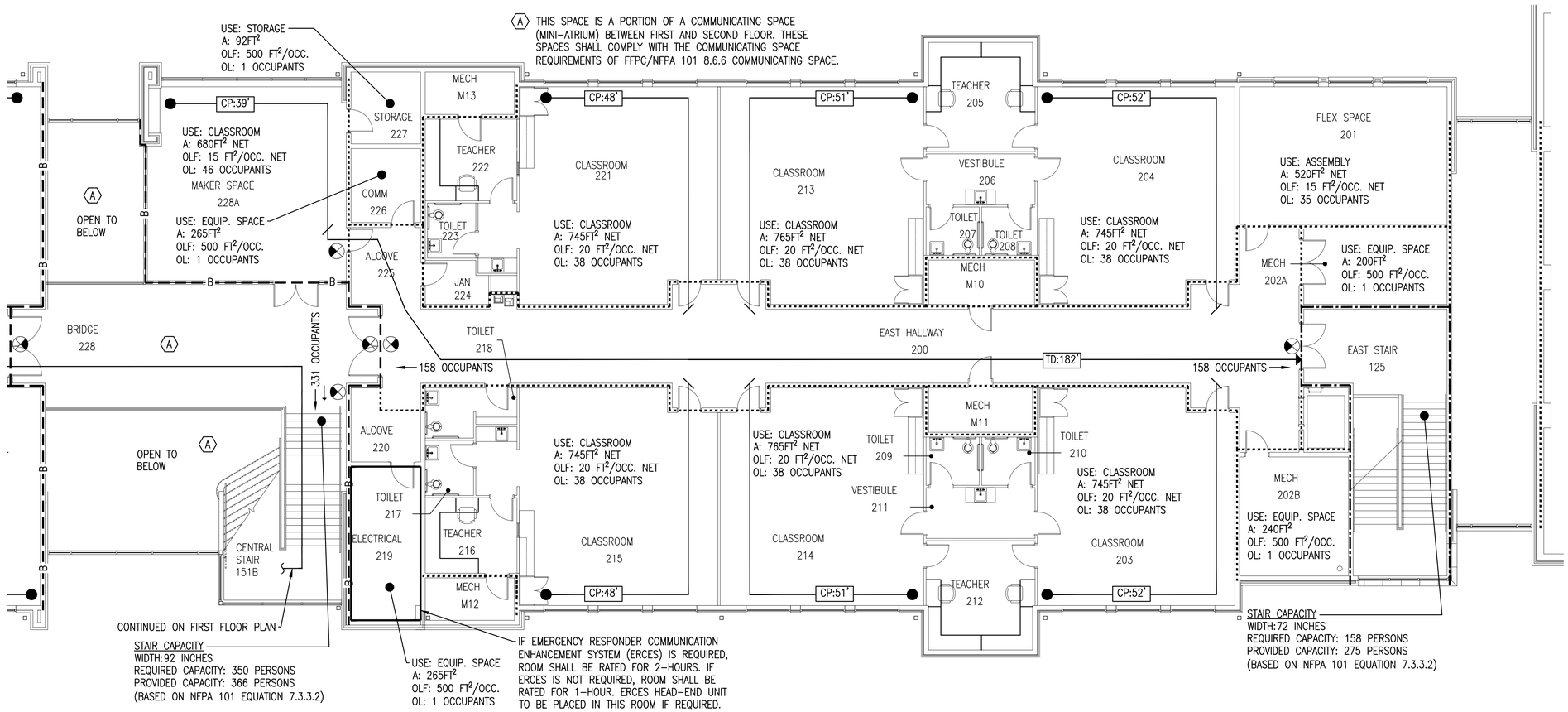
Drawing Title:

PARTIAL SECOND FLOOR LIFE SAFETY PLAN

Date: 10 October 2024

Designed By: DAK
Drawn By: DAK
Checked By: GDP

Drawing No.: LS104



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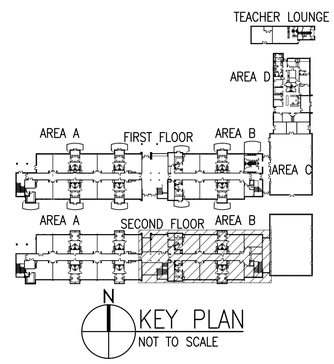

5' 0 5' 15'

1/8"= 1'- 0"

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DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal:

ELIJAH KIMMIG LICENSE No. 90730 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/2024

Project No: 23110LS105

Drawing Title:
PARTIAL SECOND FLOOR LIFE SAFETY PLAN

Date: 10 October 2024

Designed By: EK
Drawn By: DAK
Checked By: GDP

Drawing No.: LS105

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GENERAL EMERGENCY RESPONDER COMMUNICATION ENHANCEMENT SYSTEM (ERCES) NOTES

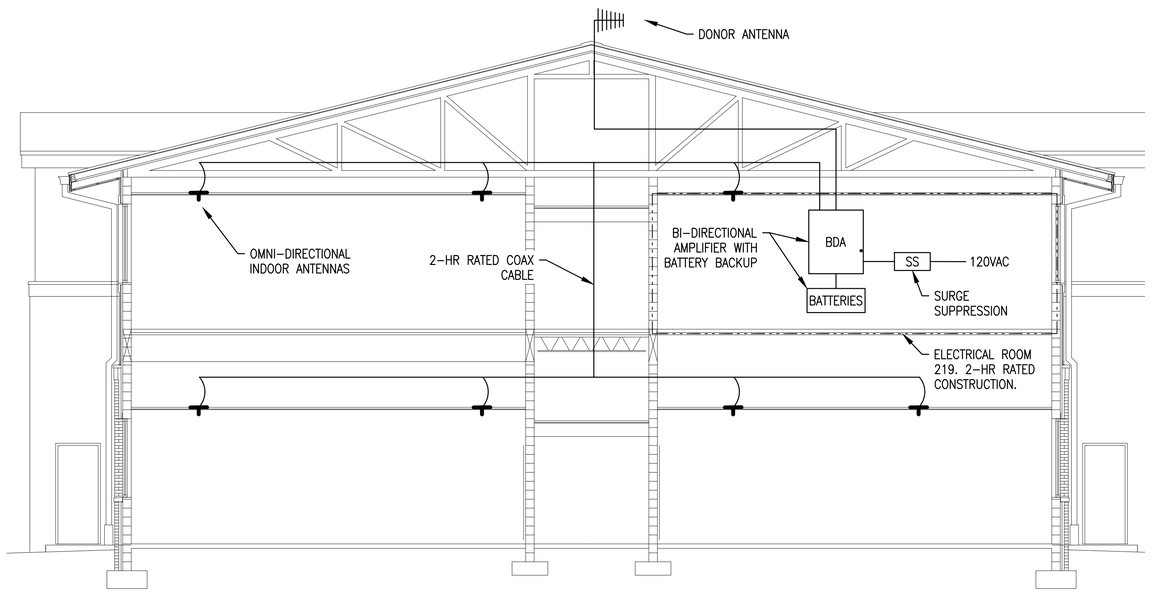
1. PROVIDE AN IN–BUILDING EMERGENCY RESPONDER COMMUNICATION ENHANCEMENT SYSTEM (ERCES) IN THE NEW DESTIN ELEMENTARY SCHOOL AND TEACHERS LOUNGE. SYSTEM TESTING AND AND WORK SHALL BE PERFOMED AS INDICATED ON THIS DRAWING. IF TESTING INDICATES AN ERCES IS NOT REQUIRED, STOP WORK IMMEDIATELY AND NOTIFY THE OWNER'S REPRESENTATIVE WITH THE REPORT OF THE TESTING. THE OWNER'S REPRESENTATIVE SHALL CONSULT WITH THE DESIGNER OF RECORD AND THE AHJ TO DETERMINE DIRECTION FORWARD.
   NOTE: THE DESTIN FIRE MARSHAL HAS CONFIRMED THAT THERE IS A NEW OKALOOSA COUNTY–WIDE EMERGENCY PUBLIC SAFETY RADIO COMMUNICATIONS SYSTEM THAT SHOULD BE COMPLETED BY END OF 2024. THIS RADIO COMMUNICATIONS UPGRADE WILL GREATLY IMPROVE THE EXISTING RADIO COMMUNICATION SYSTEM.
2. TESTING REQUIREMENTS:
   2.1. QUALIFICATIONS: A CONTRACTOR HOLDING FCC–ISSUED GENERAL RADIO OPERATORS LICENSE (GROL) AND FACTORY CERTIFIED FOR IN–BUILDING BI–DIRECTIONAL AMPLIFIERS SHALL CONDUCT THE TESTING OUTLINED BELOW TO DETERMINE THE DELIVERED AUDIO QUALITY (DAQ).

   2.2. EXTERIOR AND INTERIOR BUILDING TESTING: AFTER THE BUILDING EXTERIOR WALLS, ROOF, AND ENVELOPE CONSTRUCTION IS COMPLETE AND BEFORE ERCES INSTALLATION BEGINS, THE QUALIFIED CONTRACTOR SHALL PERFORM RANDOM TESTING AROUND THE BUILDING EXTERIOR PERIMETER AND INTERIOR TO DETERMINE THE DELIVERED AUDIO QUALITY OF THE EXISTING PUBLIC SAFETY COMMUNICATION SYSTEM MEASURED AT THE EXTERIOR OF THE BUILDING.
   - IF THE DELIVERED AUDIO QUALITY (DAQ) AT THE BUILDING EXTERIOR OR INTERIOR IS LESS THAN 3.4 FOR ANALOG OR DIGITAL SYSTEMS, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE WITH THE REPORT OF THE TESTING IMMEDIATELY. THE OWNER'S REPRESENTATIVE SHALL CONSULT WITH THE DESIGNER OF RECORD AND THE AHJ TO DETERMINE DIRECTION FORWARD.
   - IF THE DAQ AT THE BUILDING EXTERIOR OR INTERIOR IS GREATER THAN 3.4 FOR ANALOG OR DIGITAL SYSTEMS, THE CONTRACTOR SHALL PROVIDE A WRITTEN REPORT OF THE TESTING TO THE OWNER'S REPRESENTATIVE AND PROCEED TO THE NEXT TEST.

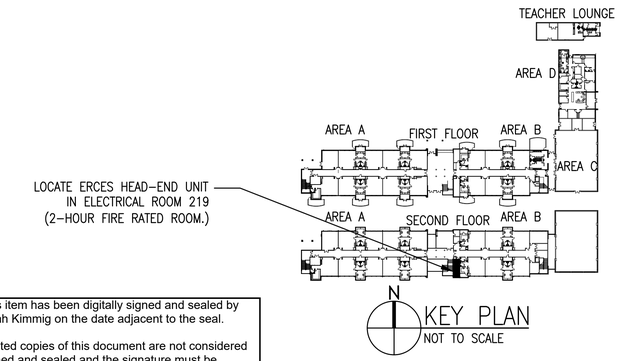
   2.2. FINISHED BUILDING INTERIOR TESTING: AFTER THE BUILDING CONSTRUCTION IS COMPLETE, THE QUALIFIED CONTRACTOR SHALL PERFORM STRUCTURED TESTING THROUGHOUT THE BUILDING INTERIOR TO DETERMINE THE DELIVERED AUDIO QUALITY OF THE EXISTING PUBLIC SAFETY COMMUNICATION SYSTEM.
   - IF THE DELIVERED AUDIO QUALITY (DAQ) ANYWHERE IN THE BUILDING INTERIOR IS LESS THAN 3.4 FOR ANALOG OR DIGITAL SYSTEMS, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE WITH THE REPORT OF THE TESTING IMMEDIATELY. THE OWNER'S REPRESENTATIVE SHALL CONSULT WITH THE DESIGNER OF RECORD AND THE AHJ TO DETERMINE DIRECTION FORWARD.
   - IF THE DAQ THROUGHOUT THE BUILDING IS GREATER THAN 3.4 FOR ANALOG OR DIGITAL SYSTEMS, THE CONTRACTOR SHALL PROVIDE A WRITTEN REPORT OF THE TESTING TO THE OWNER'S REPRESENTATIVE AND AN ERCES SYSTEM SHALL NOT BE REQUIRED.

3. ERCES SCOPE OF WORK:
   IF THE BUILDING OWNER'S REPRESENTIVE, AHJ, AND ENGINEER OF RECORD DETERMINE AN ERCES IS REQUIRED BASED ON THE REPORTS OF THE ABOVE TESTING, THE CONTRACTOR SHALL PROVIDE AN ERCES IN COMPLIANCE WITH THE FOLLOWING:
   3.1. IN ACCORDANCE WITH NFPA 1 SECTION 11.10, ALL NEW BUILDINGS SHALL MAINTAIN A MINIMUM RADIO SIGNAL STRENGTH FOR FIRE DEPARTMENT COMMUNICATIONS DETERMINED BY THE AHJ. IF A SPECIFIC STRENGTH CANNOT BE MAINTAINED, AN EMERGENCY RESPONDER COMMUNICATION ENHANCEMENT SYSTEM (ERCES) SHALL BE PROVIDED AND INSTALLED THROUGHOUT THE BUILDING.
   3.2. IN–BUILDING EMERGENCY RESPONDER COMMUNICATION ENHANCEMENT SYSTEMS SHALL COMPLY WITH THE DESIGN, INSTALLATION, TESTING, INSPECTION, AND MAINTENANCE REQUIREMENTS IN SECTION 9.6 OF NFPA 1221 AND 11.10.3.1 THROUGH 11.10.11 OF THE FLORIDA FIRE PREVENTION CODE/NFPA 1.
   3.3. THE DESIGN AND LAYOUT OF AN ERCES SHALL BE DESIGNED BY A DELEGATED ENGINEER FROM THE ERCES SYSTEM MANUFACTURER. THE DELEGATED ENGINEER SHALL SUBMIT DOCUMENTATION FOR REVIEW FOR COMPLIANCE WITH WRITTEN ENGINEERING REQUIREMENTS AND TO CONFIRM THE FOLLOWING:
   – THAT THE DELEGATED ENGINEERING DOCUMENTS HAVE BEEN PREPARED BY AN ENGINEER.
   – THAT THE DELEGATED ENGINEERING DOCUMENTS OF THE DELEGATED ENGINEER CONFORM WITH THE INTENT OF THE ENGINEER OF RECORD AND MEET THE WRITTEN CRITERIA.
   – THAT THE EFFECT OF THE DELEGATED ENGINEER'S WORK ON THE OVERALL PROJECT GENERALLY CONFORMS WITH THE INTENT OF THE ENGINEER OF RECORD.
   3.4. THE DELEGATED ENGINEER AND LICENSED CONTRACTOR SHALL PREPARE AND SUBMIT SYSTEM LAYOUT DOCUMENTS IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS AND THE REFERENCES CONTAINED THEREIN:
   - NFPA 70 NATIONAL ELECTRICAL CODE, 2020 EDITION.
   - NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE, 2019 EDITION.
   - NFPA 1221 STANDARD FOR THE INSTALLATION, MAINTENANCE, AND USE OF EMERGENCY SERVICES COMMUNICATIONS SYSTEMS, 2019 EDITION
   - 2023 FLORIDA BUILDING CODES (FBC), 8TH EDITION (BUILDING)
   - FLORIDA FIRE PREVENTION CODE (FFPC), 8TH EDITION

4. AS–BUILT DRAWINGS: CONTRACTOR SHALL PROVIDE SYSTEM AS BUILT DRAWINGS.THE DRAWINGS MUST SHOW THE SYSTEM AS INSTALLED, INCLUDING DEVIATIONS FROM BOTH THE PROJECT DRAWINGS AND THE APPROVED SHOP DRAWINGS. THESE DRAWINGS MUST BE SUBMITTED WITHIN TWO WEEKS AFTER THE FINAL TEST OF THE SYSTEM. AT LEAST ONE SET OF THE AS–BUILT (MARKED–UP) DRAWINGS MUST BE PROVIDED AT THE TIME OF, OR PRIOR TO THE FINAL TEST.



ERCES TYPICAL RISER DIAGRAM
NOT TO SCALE



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Seal:
ELIJAH KIMMIG LICENSED No. 80730 STATE OF FLORIDA PROFESSIONAL ENGINEER
10/10/2024

Project No.: [redacted]
Drawing Title:
ERCES GENERAL NOTES

Date: 10 October 2024
Designed By: EK
Drawn By: DAK
Checked By: GDP
Drawing No.: F-001

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GENERAL FIRE ALARM NOTES

1. SCOPE OF FIRE ALARM WORK:
PROVIDE ADDRESSABLE EMERGENCY VOICE/ALARM COMMUNICATION FIRE ALARM SYSTEM IN ALL AREAS OF THE NEW MAIN BUILDING. PROVIDE ADDRESSABLE FIRE ALARM SYSTEM WITHIN THE TEACHERS' LOUNGE BUILDING. THE SYSTEMS MUST MEET THE REQUIREMENTS OF THE CONTRACT DRAWINGS, CONTRACT SPECIFICATIONS, AND THE CODES AND STANDARDS LISTED BELOW.

2. THE LICENSED CONTRACTOR SHALL PREPARE AND SUBMIT FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS AND THE REFERENCES CONTAINED THEREIN:

- ASME A17.1/CSA B44 SAFETY CODE FOR ELEVATORS AND ESCALATORS
- NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2019 EDITION
- NFPA 70 NATIONAL ELECTRICAL CODE, 2020 EDITION.
- NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE, 2019 EDITION.
- 2023 FLORIDA BUILDING CODES (FBC), 8TH EDITION (BUILDING, PLUMBING, & MECHANICAL)
- FLORIDA FIRE PREVENTION CODE (FFPC), 8TH EDITION

3. FLORIDA ADMINISTRATIVE CODE CHAPTER 61G15-32.008 (4) CHECK LIST:
   A. SEE LIFE SAFETY PLAN FOR ALL FIRE RATED WALL ASSEMBLIES. ALL PENETRATIONS IN RATED WALL/FLOOR ASSEMBLIES SHALL BE FIRESTOPPED WITH A LISTED FIRESTOPPING SYSTEM. SEE FIRE ALARM DEVICE LEGEND ON FA001 FOR ALL APPLICABLE SYMBOLS. SEE FA002 FOR GENERAL FIRE ALARM RISER DIAGRAM. ALL CABLE SHALL BE SIZED IN ACCORDANCE WITH NFPA 70, VOLTAGE DROP CALCULATIONS, AND MANUFACTURER'S RECOMMENDATIONS.
   B. SEE FA101-FA105 FOR LOCATIONS OF INITIATING DEVICES AND NOTIFICATION APPLIANCES.
   C. STROBE INTENSITY AND SPEAKER OUTPUTS PROVIDED ARE MINIMUM QUANTITIES ONLY TO SHOW DESIGN INTENT. CONTRACTOR SHALL MODIFY AS REQUIRED TO MEET AUDIBLE AND VISUAL REQUIREMENTS IN NFPA 72.
   D. ALL CIRCUITS SHALL BE PERMITTED TO BE CLASS "B".
   E. SEE FA002 FOR FUNCTIONAL MATRIX.
   F. FIRE ALARM SHALL BE DIGITAL ADDRESSABLE, WITH EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM (EVACS) IN MAIN BUILDING. TEACHERS LOUNGE BUILDING IS PERMITTED TO BE STANDARD DIGITAL ADDRESSABLE SYSTEM.
   G. SURGE PROTECTIVE DEVICES SHALL BE INSTALLED ON THE 120V SUPPLY TO THE FIRE ALARM CONTROL PANELS AND ALL CIRCUITS ENTERING AND EXITING BUILDING, WITH MINIMUM 14AWG GROUND WIRE TERMINATED TO BUILDING GROUND.
   H. ALL FIRE ALARM DEVICES SHALL BE PLACED IN A CONDITIONED SPACE. ANY SPACE THAT IS UNCONDITIONED SHALL HAVE NEMA RATED DEVICES. INITIATING DEVICES SHALL HAVE MONITOR MODULE LOCATED AT THE NEAREST CONDITIONED SPACE WITH AN INITIATING DEVICE CIRCUIT MONITORING THE NEMA RATED DEVICE.
   I. IN ACCORDANCE WITH FLORIDA BUILDING CODE 453.7.4, THE CAMPUS SHALL HAVE A COMMON FIRE ALARM SYSTEM. THE NEW SYSTEM WITHIN THIS PROJECT SHALL BE THE CAMPUS COMMON FIRE ALARM SYSTEM. EXISTING SYSTEMS ARE NOT REQUIRED TO BE BROUGHT UP TO NEW CONSTRUCTION CODE REQUIREMENTS, BUT SHALL BE MONITORED FOR ALARM, TROUBLE, AND SUPERVISORY CONDITIONS. COMMON FIRE ALARM SYSTEM SHALL BE ABLE TO PLACE ALL FIRE ALARM SYSTEMS INTO ALARM.
   J. ALL CEILINGS WITHIN THIS STRUCTURE ARE FLAT AND OBSTRUCTION FREE. SMOKE DETECTORS ARE TO BE SPACED ACCORDING TO THEIR LISTING TO MEET TOTAL COVERAGE FOR THEIR INTENDED SPACE.
   K. SMOKE STRATIFICATION IS NOT ANTICIPATED FOR THIS PROJECT. ALL SMOKE DETECTORS SHALL BE LOCATED A MINIMUM 3 FT AWAY FROM SUPPLY AND RETURN DUCTS.
   L. SYSTEM DESIGNED IS PRESCRIPTION-BASED DESIGN USING FLORIDA FIRE PREVENTION CODE AND ALL APPLICABLE CODES AND STANDARDS.
   M. A GENERAL EVACUATION MESSAGE SHALL BE BROADCAST THROUGHOUT THE FACILITY. THE NEW COMMON FIRE ALARM MAIN PANEL SHALL BE CAPABLE OF ACTIVATION ALARM IN ALL OTHER FIRE ALARM SYSTEMS IN OTHER BUILDINGS ON THE CAMPUS.
   N. CONTRACTOR SHALL FIELD VERIFY EXISTING CAMPUS STYLE WIRING AND MATCH EXISTING CONDITIONS TO NOTIFY COMMON FIRE ALARM SYSTEM. FIBER OPTIC CABLING BETWEEN MAIN COMMON FIRE ALARM PANEL AND FIRE ALARM PANELS IN OTHER BUILDINGS IS RECOMMENDED. IF COPPER IS USED, SURGE PROTECTION DEVICES SHALL BE INSTALLED WHERE THE COPPER CIRCUIT ENTERS AND EXITS THE BUILDINGS.
   O. OPERATION AND MAINTENANCE DOCUMENTS SHALL BE REQUIRED AS OUTLINED ON THIS SHEET.

4. THE DEVICE LAYOUT SHOWN ON THE PLANS IS DIAGRAMMATIC AND SHOWS DESIGN INTENT. CONTRACTOR SHALL FIELD VERIFY CONSTRUCTION CONDITIONS AND COORDINATE ROUTING WITH ALL OTHER TRADES. EXACT CONDUIT AND CABLE ROUTING SHALL BE SHOWN ON CONTRACTOR'S SHOP DRAWINGS AND SHALL COMPLY WITH THE REQUIREMENTS OF THESE ENGINEERING DRAWINGS, SPECIFICATIONS, CODES, AND STANDARDS.

5. THE LICENSED CONTRACTOR SHALL PREPARE AND SUBMIT FIRE ALARM SYSTEM DOCUMENTATION BASED ON THESE ENGINEERING DRAWINGS IN ACCORDANCE WITH NFPA 72 7.4 FOR REVIEW AND APPROVAL PRIOR TO SYSTEM INSTALLATION.
   - THE FIRE ALARM SYSTEM LAYOUT DOCUMENTS INCLUDE BUT ARE NOT LIMITED TO SHOP PLANS, CALCULATIONS, AND MATERIAL DATA. SHOP DRAWINGS SHALL BE IN ACCORDANCE WITH NFPA 72.
   - SHOP DRAWINGS, CALCULATIONS, AND MATERIAL DATA SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND THE AHJ FOR REVIEW AND APPROVAL. REVIEW AND APPROVAL BY THE AHJ AND A/E SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF COMPLIANCE WITH THE LISTED CODES AND STANDARDS.
   - SHOP DRAWINGS SHALL CONFORM TO THE REQUIREMENTS PRESCRIBED IN NFPA 72 AND MUST BE NO SMALLER THAN 22"X34".
   - SHOP DRAWING FLOOR PLANS SHALL BE DRAWN TO A SCALE NOT LESS THAN 1/8-INCH EQUALS 1-FOOT.
   - SHOP PLANS SHALL BE COORDINATED WITH HVAC, PLUMBING, ELECTRICAL, AND OTHER TRADES.
   - CALCULATIONS MUST BE PROVIDED IN ACCRODANCE WITH NFPA 72 INCLUDING BUT NOT LIMITED TO BATTERY CAPACITY CALCULATIONS, NAC VOLTAGE DROP CALCULATIONS, AMPLIFIER CALCULATIONS, AND OTHER REQUIRED CALCULATIONS, SUCH AS LINE RESISTANCE CALCULATIONS.

6. ACCEPTANCE TESTING: AFTER COMPLETION OF INSTALLATION OF THE FIRE ALARM SYSTEM, THE INSTALLING CONTRACTOR SHALL DO THE FOLLOWING:
   - NOTIFY THE AUTHORITY HAVING JURISDICTION AND THE PROPERTY OWNER OR THE PROPERTY OWNER'S AUTHORIZED REPRESENTATIVE OF THE TIME AND DATE FINAL TESTING WILL BE PERFORMED.
   - PERFORM ALL REQUIRED ACCEPTANCE TESTS AS REQUIRED BY NFPA 72 CHAPTER 14.
   - ALL SPACES SHALL BE CONSIDERED AN ACOUSTICALLY DISTINGUISHABLE SPACE REQUIRING VOICE INTELLIGIBILITY THROUGH NON-QUANTITATIVE MEASURES UNLESS OTHERWISE NOTED.
   - COMPLETE AND SIGN THE APPROPRIATE CONTRACTORS MATERIAL AND TEST CERTIFICATES AS REQUIRED BY NFPA 72 CHAPTER 14.
   - AFTER TESTING, IF ANY COMPONENT WAS FOUND TO BE DEFECTIVE OR NON-COMPLIANT WITH CONTRACT REQUIREMENTS, PERFORM CORRECTIVE ACTIONS AND REPEAT THE TESTS. TESTS MUST BE CONDUCTED AND REPEATED AS NECESSARY UNTIL THE SYSTEM HAS BEEN DEMONSTRATED TO COMPLY WITH ALL CONTRACT REQUIREMENTS

7. OPERATION AND MAINTENANCE (O&M) INSTRUCTIONS: PROVIDE TWO (2) COPIES OF THE OPERATION AND MAINTENANCE INSTRUCTIONS. THE O&M INSTRUCTIONS MUST BE PREPARED IN A SINGLE VOLUME OR IN MULTIPLE VOLUMES, WITH EACH VOLUME INDEXED, AND MAY BE SUBMITTED AS A TECHNICAL DATA PACKAGE. THE INTERIOR FIRE ALARM SYSTEM OPERATION AND MAINTENANCE INSTRUCTIONS MUST INCLUDE THE FOLLOWING:
   - MANUFACTURER DATA PACKAGE
   - OPERATING MANUAL OUTLINING STEP-BY-STEP PROCEDURES REQUIRED FOR SYSTEM STARTUP, OPERATION, AND SHUTDOWN. THE MANUAL MUST INCLUDE THE MANUFACTURER'S NAME, MODEL NUMBER, SERVICE MANUAL, PARTS LIST, AND PRELIMINARY EQUIPMENT LIST COMPLETE WITH DESCRIPTION OF EQUIPMENT AND THEIR BASIC OPERATING FEATURES.
   - MAINTENANCE MANUAL LISTING ROUTINE MAINTENANCE PROCEDURES, POSSIBLE BREAKDOWNS AND REPAIRS, AND TROUBLESHOOTING GUIDE. THE MANUALS MUST INCLUDE CONDUIT LAYOUT, EQUIPMENT LAYOUT AND SIMPLIFIED WIRING, AND CONTROL DIAGRAMS OF THE SYSTEM AS INSTALLED.
   - COMPLETE PROCEDURES FOR SYSTEM REVISION AND EXPANSION, DETAILING BOTH EQUIPMENT AND SOFTWARE REQUIREMENTS.
   - SOFTWARE SUBMITTED FOR THIS PROJECT ON CD/DVD MEDIA UTILIZED.
   - PRINTOUTS OF CONFIGURATION SETTINGS FOR ALL DEVICES.
   - ROUTINE MAINTENANCE CHECKLIST. THE ROUTINE MAINTENANCE CHECKLIST MUST BE ARRANGED IN A COLUMNAR FORMAT. THE FIRST COLUMN MUST LIST ALL INSTALLED DEVICES, THE SECOND COLUMN MUST STATE THE MAINTENANCE ACTIVITY OR STATE NO MAINTENANCE REQUIRED, THE THIRD COLUMN MUST STATE THE FREQUENCY OF THE MAINTENANCE ACTIVITY, AND THE FOURTH COLUMN PROVIDED FOR ADDITIONAL COMMENTS OR REFERENCE. ALL DATA (DEVICES, TESTING FREQUENCIES, AND SIMILAR) MUST COMPLY WITH NFPA 72.
   - A FINAL EQUIPMENT LIST MUST BE SUBMITTED WITH THE OPERATING AND MAINTENANCE (O&M) MANUAL.

8. AS-BUILT DRAWINGS: CONTRACTOR SHALL PROVIDE SYSTEM AS BUILT DRAWINGS.THE DRAWINGS MUST SHOW THE SYSTEM AS INSTALLED, INCLUDING DEVIATIONS FROM BOTH THE PROJECT DRAWINGS AND THE APPROVED SHOP DRAWINGS. THESE DRAWINGS MUST BE SUBMITTED WITHIN TWO WEEKS AFTER THE FINAL TEST OF THE SYSTEM. AT LEAST ONE SET OF THE AS-BUILT (MARKED-UP) DRAWINGS MUST BE PROVIDED AT THE TIME OF, OR PRIOR TO THE FINAL TEST.

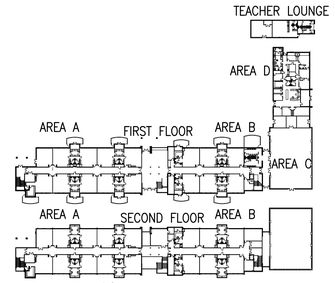
9. ALL SPACES SHALL BE CONSIDERED TO BE AN ACOUSTICALLY DISTINGUISHABLE SPACE REQUIRING VOICE INTELLIGIBILITY THROUGH NON-QUANTITATIVE MEASURES EXCEPT AS NOTED OTHERWISE.

COMMON FIRE ALARM

IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 453.7.3, THE DESIGN ELEMENTARY SCHOOL CAMPUS STRUCTURES WITHIN 60 FT OF EACH OTHER SHALL BE PROVIDED WITH A COMMON FIRE ALARM SYSTEM. THE NEW ELEMENTARY BUILDING FIRE EMERGENCY VOICE/ALARM COMMUNICATIONS SYSTEM (EVACS) SHALL SERVE AS THE CAMPUS COMMON FIRE ALARM MAIN CONTROL PANEL. THE FIRE ALARM SYSTEMS IN THE NEW TEACHERS LOUNGE, BUILDING 1, BUILDING 9, BUILDING 12, BUILDING 17 SHALL BE CONNECTED TO THE CAMPUS COMMON FIRE ALARM MAIN CONTROL PANEL. THE COMMON FIRE ALARM MAIN CONTROL PANEL SHALL MONITOR THE OTHER STRUCTURES FIRE ALARM SYSTEMS FOR ALARM, SUPERVISORY, AND TROUBLE CONDITIONS. THE COMMON FIRE ALARM MAIN CONTROL PANEL SHALL BE CAPABLE OF ACTIVATING ALARM ON ALL PANELS ON CAMPUS. THE EXISTING SYSTEMS SHALL BE UPDATED AS REQUIRED TO MEET THE REQUIREMENTS IN THIS NOTE AND THE MATRIX REQUIREMENTS ON FA002. EXISTING SYSTEMS WITHOUT VOICE FEATURES SHALL NOT BE REQUIRED TO INCLUDE THE VOICE FEATURE IN THE UPGRADE. SYSTEMS SHALL BE CONNECTED BETWEEN BUILDINGS VIA FIBER OPTIC CABLE.

FIRE ALARM DEVICE LEGEND

FACU	FIRE ALARM CONTROL UNIT
AMP	AMPLIFIER
FAA	FIRE ALARM ANNUNCIATOR
EVAC	VOICE EVACUATION CONTROL UNIT
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
S	PHOTOELECTRIC SMOKE DETECTOR
S	SMOKE DETECTOR/SENSOR FOR DUCT
F	MANUAL PULL STATION
AIM	ADDRESSABLE INPUT MODULE
AOM	ADDRESSABLE OUTPUT MODULE
WF	WATERFLOW SWITCH
VS	VALVE TAMPER SWITCH
DH	MAGNETIC DOOR HOLD OPEN DEVICE
W S	SPEAKER - WALL MOUNT W= WATTAGE
CD W C	COMBINATION SPEAKER/VISIBLE - CEILING MOUNT CD= CANDELA RATING/SETTING W= WATTAGE
CD W	COMBINATION SPEAKER/STROBE - WALL MOUNT CD = CANDELA RATING/SETTING W = WATTAGE
CD	COMBINATION HORN/STROBE - WALL MOUNT CD = CANDELA RATING/SETTING
CD	VISIBLE/STROBE NOTIFICATION APPLIANCE - WALL MOUNT CD = CANDELA RATING/SETTING
SS	LISTED SURGE SUPPRESSION DEVICE
SLC	SIGNALING LINE CIRCUIT
NAC	NOTIFICATION APPLIANCE CIRCUIT
WP	WEATHERPROOF DEVICE



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75 SOUTH "F" STREET
PENSACOLA, FLORIDA 32502
(850) 434-0513
PEI 23110

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal:

ELIJAH KIMMIG LICENSE No. 90730 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/2024

Project No.: 83Y08735

Drawing Title:
FIRE ALARM GENERAL NOTES

Date: 10 October 2024

Designed By: EK
Drawn By: DAK
Checked By: GDP

Drawing No.: FA001

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MATRIX NOTES

(1) ALL SYSTEM INPUTES AND OUTPUTS LISTED ON THIS MATRIX APPLY TO THE MAIN BUILDING FIRE ALARM/EVAC SYSTEM. SYSTEM INPUTS AND OUTPUTS NOTED BY THE KEYNOTE APPLY ALSO TO THE TEACHERS LOUNGE FIRE ALARM SYSTEM. NOTIFICATION FOR THE TEACHERS LOUNGE FIRE ALARM SYSTEM IS BY HORNS AND STROBES.

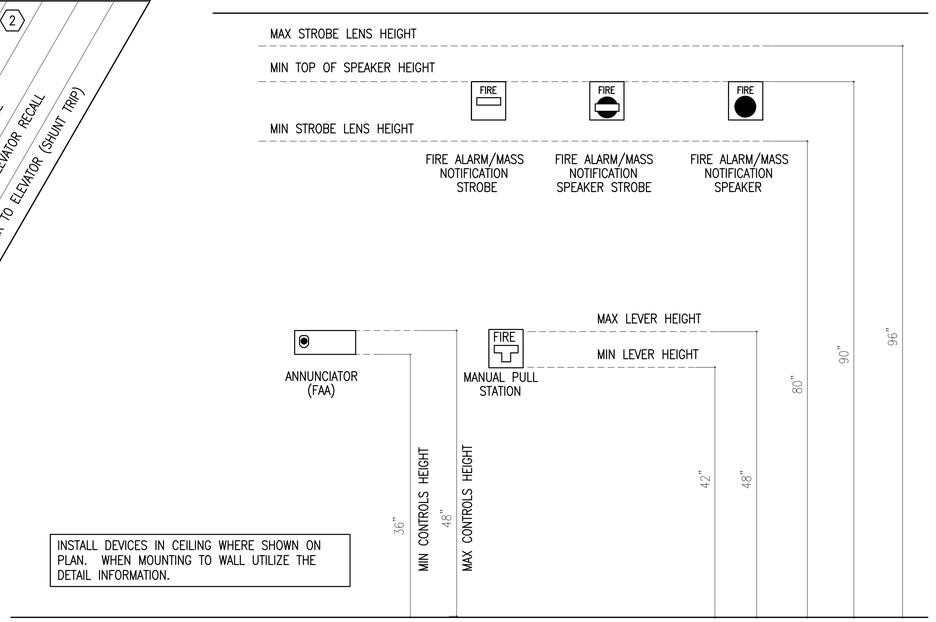
(2) MAGNETIC DOOR HOLD OPEN DEVICES SHALL NOT BE INCLUDED IN BACKUP BATTERY CAPACITY.

SYSTEM OUTPUTS

	CONTROL UNIT ANNUNCIATION			LOCAL NOTIFICATION				OUTPUT TO RECEIVING STATION			AUXILIARY FUNCTIONS					
	(1)	(1)	(1)	(1)				(1)	(1)	(1)	(2)					
SYSTEM INPUTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1 MANUAL PULL STATION (1)	●			●				●						●				1
2 SMOKE DETECTOR (1)	●			●				●						●				2
3 WATERFLOW SWITCH (1)	●			●				●						●				3
4 FIRST FLOOR ELEVATOR LOBBY SMOKE DETECTOR	●			●				●						●		●		4
5 SECOND FLOOR ELEVATOR LOBBY SMOKE DETECTOR	●			●				●						●	●			5
6 ELEVATOR EQUIPMENT SPACE SMOKE DETECTOR	●			●				●						●		●		6
7 ELEVATOR HOISTWAY HEAT DETECTOR	●			●				●						●			●	7
8 DOOR RELEASING SMOKE DETECTOR	●			●				●						●				8
9 SPRINKLER CONTROL VALVE TAMPER (1)		●							●									9
10 DUCT SMOKE DETECTOR (1)		●							●			●						10
11 FIRE ALARM TROUBLE CONDITION (OPENS, SHORTS OR GROUNDS) (1)			●							●								11
12 LOSS OF A/C POWER (1)			●							●				●				12
13 OTHER BUILDING ALARM (1)		●						●										13
14 OTHER BUILDING SUPERVISORY		●							●									14
15 OTHER BUILDING TROUBLE			●							●								15
16 COMMON FIRE ALARM MASTER ALARM BUTTON	●				●			●						●				16
17 RECALL/ALL CLEAR BUTTON (UNDER LOCK AND KEY)		●				●												17
18 MICROPHONE "ALL CALL" BUTTON		●					●											18
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	

INITIATE AUDIO-VISUAL ALARM INDICATION
INITIATE AUDIO-VISUAL SUPERVISORY INDICATION
INITIATE AUDIO-VISUAL TROUBLE INDICATION
INITIATE SPEAKERS, STROBES, & FIRE ALARM MESSAGE
INITIATE FIRE ALARM IN ALL BUILDINGS
INITIATE SPEAKERS, STROBES, & RECALL MESSAGE
INITIATE SPEAKERS, STROBES, & LIVE VOICE
TRANSMIT FIRE ALARM SIGNAL TO RECEIVING STATION
TRANSMIT SUPERVISORY SIGNAL TO RECEIVING STATION
TRANSMIT TROUBLE SIGNAL TO RECEIVING STATION
SHUTDOWN ASSOCIATED AIR HANDLING UNIT
RELEASE ALL HOLD-OPEN DOOR MAGNETS
INITIATE PHASE 1 PRIMARY ELEVATOR RECALL
INITIATE PHASE 1 ALTERNATE ELEVATOR RECALL
DISCONNECT POWER TO ELEVATOR (SHUNT TRIP)

FIRE ALARM SEQUENCE OF OPERATIONS MATRIX



INSTALL DEVICES IN CEILING WHERE SHOWN ON PLAN. WHEN MOUNTING TO WALL UTILIZE THE DETAIL INFORMATION.

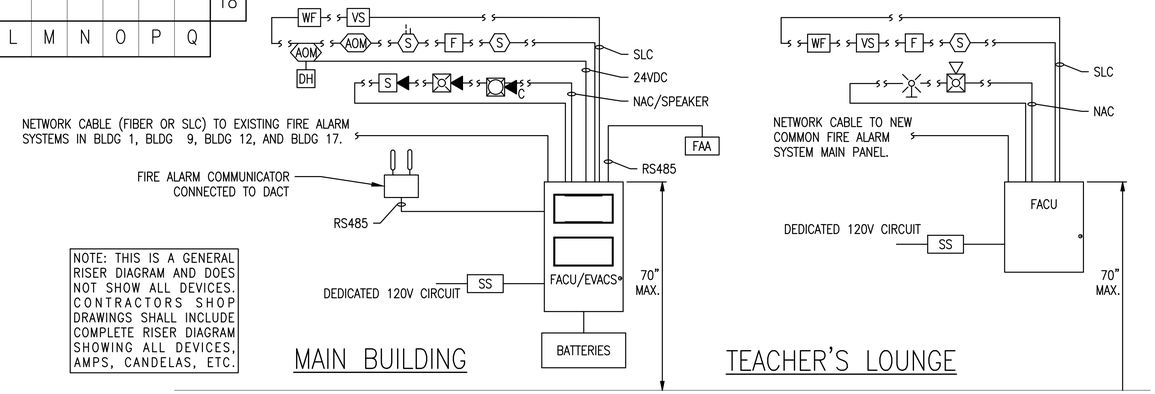
FIRE ALARM MOUNTING HEIGHT DETAIL

NOT TO SCALE

GENERAL WALL MOUNTING NOTES

1. MOUNT MANUAL PULL STATION SO THAT OPERABLE LEVER IS BETWEEN 42" AND 48" ABOVE FINISHED FLOOR.
2. MOUNT STROBES SO THAT LENS IS NO MORE THAN 96" AFF AND NO LESS THAN 80" AFF.
3. MOUNT SPEAKERS SO THAT TOP OF APPLIANCE IS A MINIMUM OF 90" AFF. ENSURE THAT SPEAKER IS AT LEAST 6" BELOW CEILING.
4. MOUNT SPEAKER STROBES IN ACCORDANCE WITH STROBE MOUNTING REQUIREMENTS.
5. MOUNT FAA WITH HOUSING CENTERED AT 3'8".

NEW FACU/EVACS SHALL SERVE AS COMMON FIRE ALARM MAIN PANEL.



NOTE: THIS IS A GENERAL RISER DIAGRAM AND DOES NOT SHOW ALL DEVICES. CONTRACTORS SHOP DRAWINGS SHALL INCLUDE COMPLETE RISER DIAGRAM SHOWING ALL DEVICES, AMPS, CANDELAS, ETC.

FIRE ALARM/EVACS RISER DIAGRAM

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Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY • DISTRICT • SCHOOL •

Seal:

ELIJAH KIMMIG LICENSE No. 90730 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/2024

Project No.: 83XQR735

Drawing Title:
FIRE ALARM SYSTEM MATRIX

Date: 10 October 2024

Designed By: EK
Drawn By: DAK
Checked By: GDP

Drawing No.: FA002

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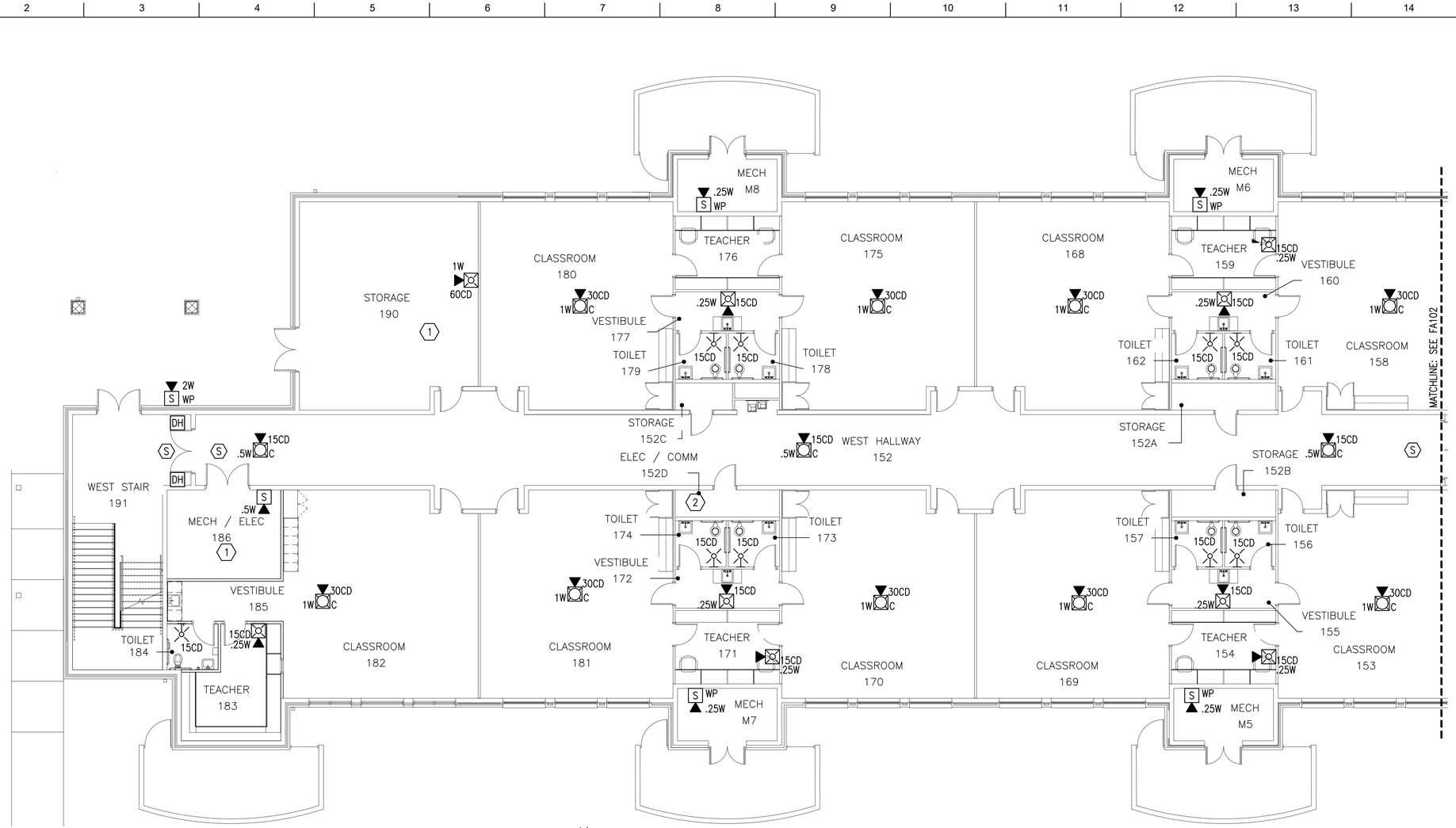

N

PARTIAL FIRST FLOOR FIRE ALARM NEW WORK PLAN

SCALE: 1/8" = 1'-0"

SHEET NOTES

1. THIS SPACE IS NOT REQUIRED TO MEET INTELLIGIBILITY REQUIREMENTS. SPACE SHALL MEET AUDIBILITY REQUIREMENTS.
2. TYPICAL LOCATION FOR AUX/NAC POWER PANEL AS REQUIRED BY CONTRACTOR'S SHOP DRAWING LAYOUT.

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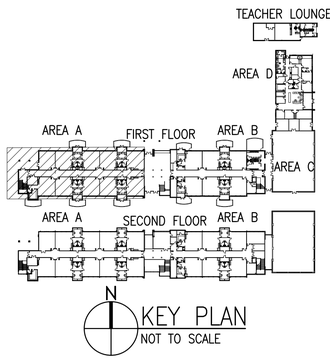

1/8"=1'-0" 8' 0' 8' 16'

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Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

ELIJAH KIMMIG LICENSE No. 90730 STATE OF FLORIDA PROFESSIONAL ENGINEER
10/10/2024

Project No.: 23110FA101

Drawing Title:
PARTIAL FIRST FLOOR FIRE ALARM NEW WORK PLAN

Date: 10 October 2024

Designed By: EK
Drawn By: DAK
Checked By: GDP

Drawing No.: FA101

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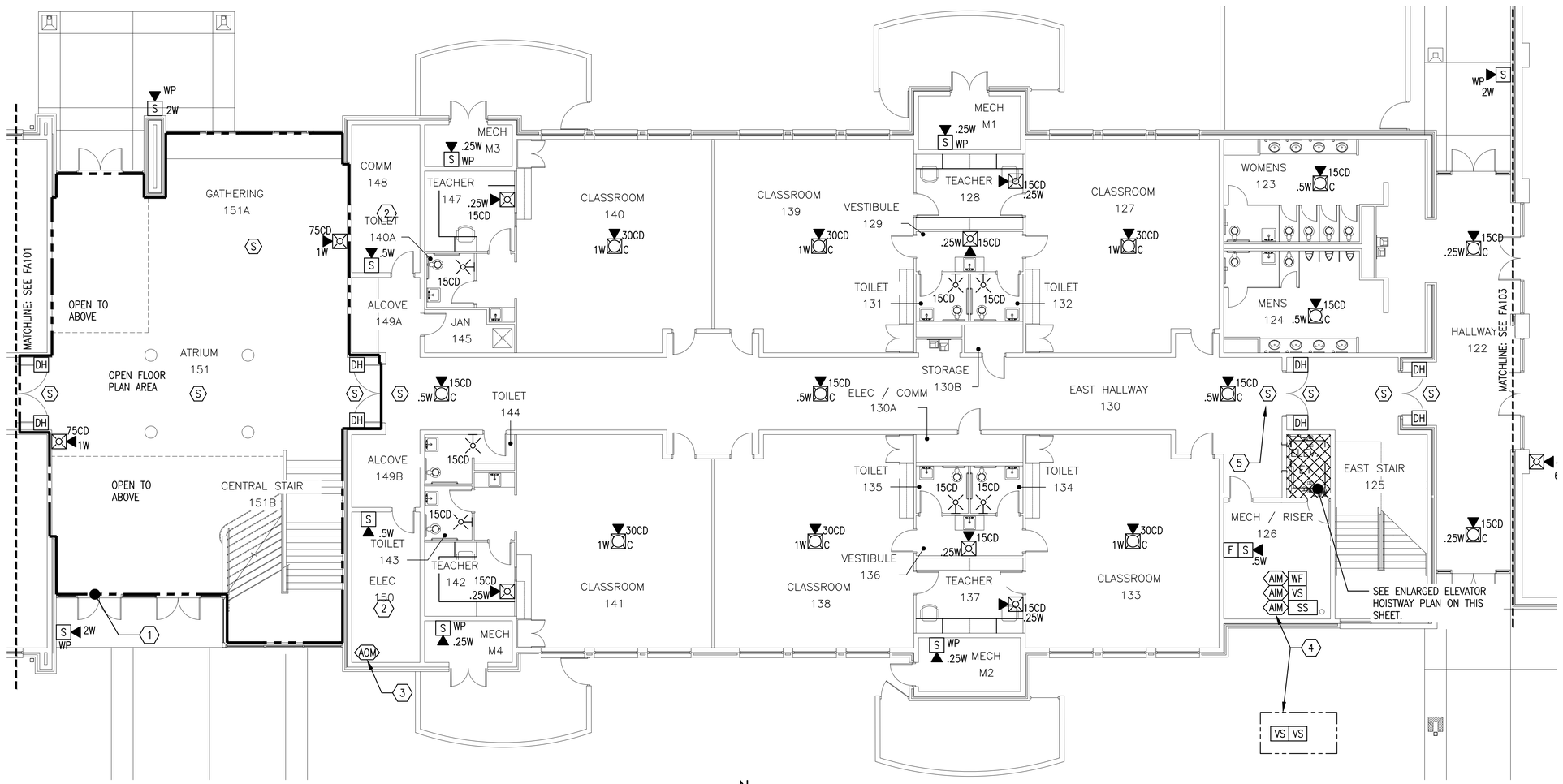

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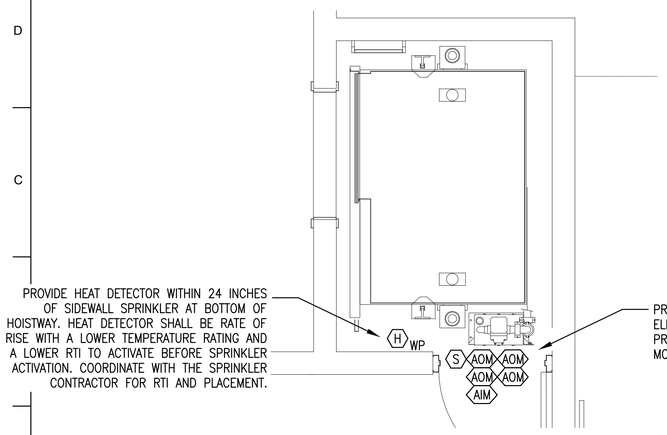
PARTIAL FIRST FLOOR FIRE ALARM NEW WORK PLAN

SCALE: 1/8" = 1'–0"



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ENLARGED ELEVATOR PLAN

SCALE: 1/2" = 1'–0"

COORDINATE WITH ELEVATOR CONTRACTOR FOR EXACT DEVICE LOCATION WITHIN CONTROL SPACE IN HOISTWAY.

SHEET NOTES

1. THIS SPACE IS A PORTION OF A COMMUNICATING SPACE (MINI–ATRIUM) BETWEEN FIRST AND SECOND FLOOR. THIS SPACE SHALL BE PROVIDED WITH A SMOKE DETECTION SYSTEM THROUGHOUT IAW FFPC/NFPA 101 8.6.6.
2. THIS SPACE IS NOT REQUIRED TO MEET INTELLIGIBILITY REQUIREMENTS. SPACE SHALL MEET AUDIBILITY REQUIREMENTS.
3. TYPICAL LOCATION FOR AUX/NAC POWER PANEL AND ADDRESSABLE OUTPUT MODULE DISCONNECT. PROVIDE AOM FOR EACH DOOR MAGNET POWER SUPPLY.
4. SPRINKLER RISER LOCATION. COORDINATE WITH SPRINKLER CONTRACTOR FOR EXACT NUMBER OF SWITCHES. PROVIDE INPUT MODULE AND SURGE SUPPRESSION FOR BACKFLOW PREVENTER TAMPER SWITCH MONITORING. COORDINATE WITH ELECTRICAL FOR GROUNDING CONNECTION. BACKFLOW PREVENTION ASSEMBLY IS LOCATED NEAR BEACH ST. SEE CIVIL PLANS FOR EXACT LOCATION.
5. SMOKE DETECTOR SHALL BE PROGRAMMED TO PROVIDE ELEVATOR PHASE 1 RECALL AND DOOR RELEASING SERVICE. SMOKE DETECTOR SHALL NOT BE MORE THAN 5 FT FROM THE MAGNETICALLY HELD OPEN DOOR AND NOT MORE THAN 21 FT FROM CENTERLINE OF THE ELEVATOR DOOR.

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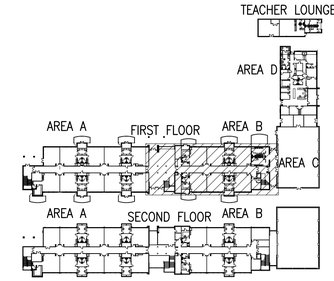

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KEY PLAN

NOT TO SCALE

1/2"=1'–0" 2' 0' 2' 4'

1/8"=1'–0" 8' 0' 8' 16'

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DESTIN ELEMENTARY SCHOOL
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Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

ELIJAH KIMMIG LICENSE No. 90730 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/2024

Project No.: 23110

Drawing Title:
PARTIAL FIRST FLOOR FIRE ALARM NEW WORK PLAN

Date: 10 October 2024

Designed By: EK
Drawn By: DAK
Checked By: GDP

Drawing No.: FA102

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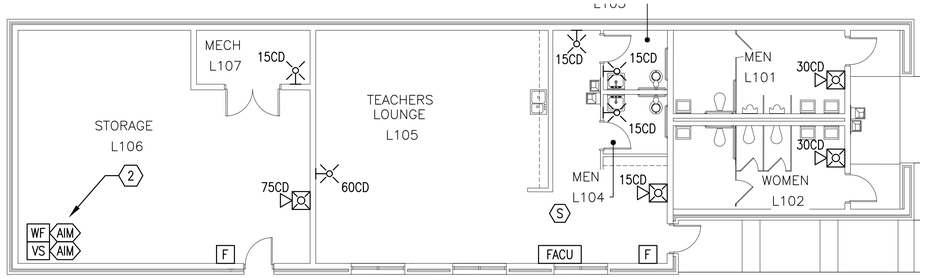
SHEET NOTES

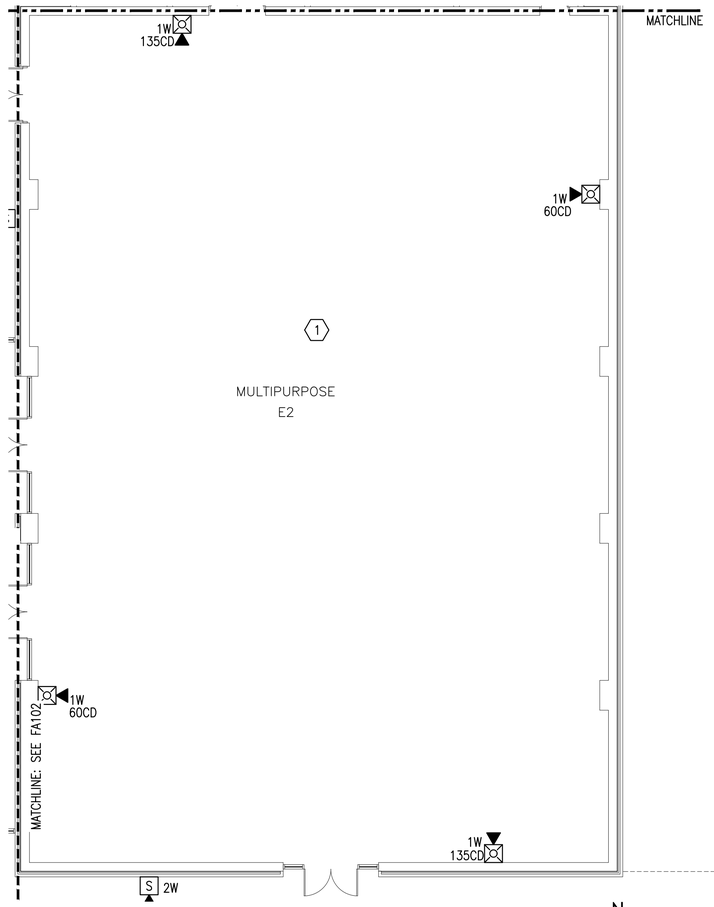
1. PROVIDE METAL GUARDS FOR ALL DEVICES WITHIN SPACE FOR PROTECTION AGAINST DAMAGE.
2. SPRINKLER RISER LOCATION. COORDINATE WITH SPRINKLER CONTRACTOR FOR EXACT NUMBER OF ADDRESSABLE INPUT MODULES.
3. THIS SPACE IS NOT REQUIRED TO MEET INTELLIGIBILITY REQUIREMENTS. SPACE SHALL MEET AUDIBILITY REQUIREMENTS.

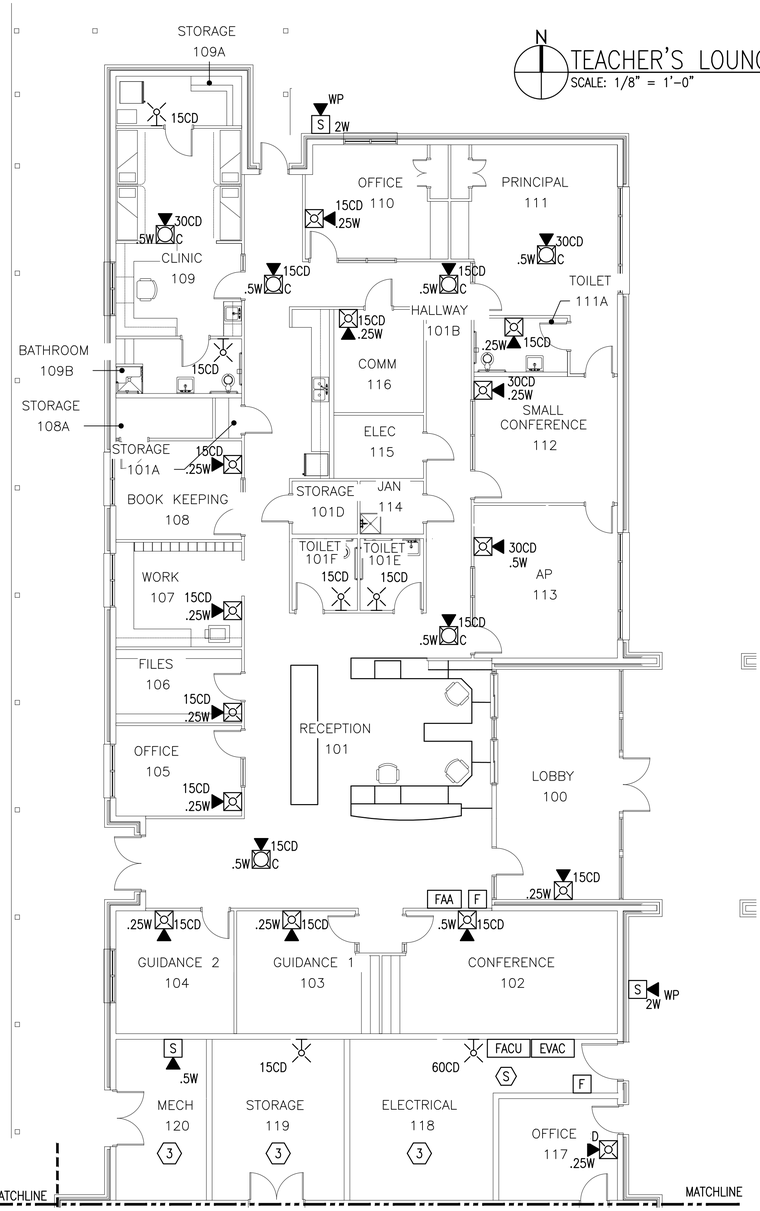
NOTE: THE TEACHERS LOUNGE IS PROVIDED WITH A FIRE ALARM ONLY SYSTEM AND DOES NOT INCLUDE EVACS



TEACHER'S LOUNGE FIRE ALARM NEW WORK PLAN

SCALE: 1/8" = 1'-0"





PARTIAL FIRST FLOOR FIRE ALARM NEW WORK PLAN

SCALE: 1/8" = 1'-0"

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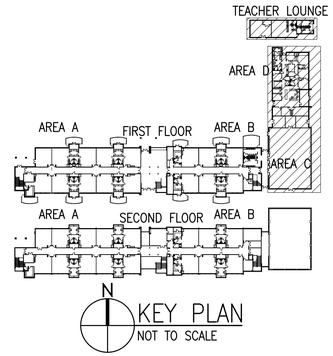

KEY PLAN

NOT TO SCALE

1/8"=1'-0" 8' 0' 8' 16'

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OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

ELIJAH KIMMIG
LICENSE
No. 90730
10/10/2024
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
PARTIAL FIRST FLOOR FIRE ALARM NEW WORK PLAN

Date: 10 October 2024

Designed By: EK
Drawn By: DAK
Checked By: GDP

Drawing No.: FA103

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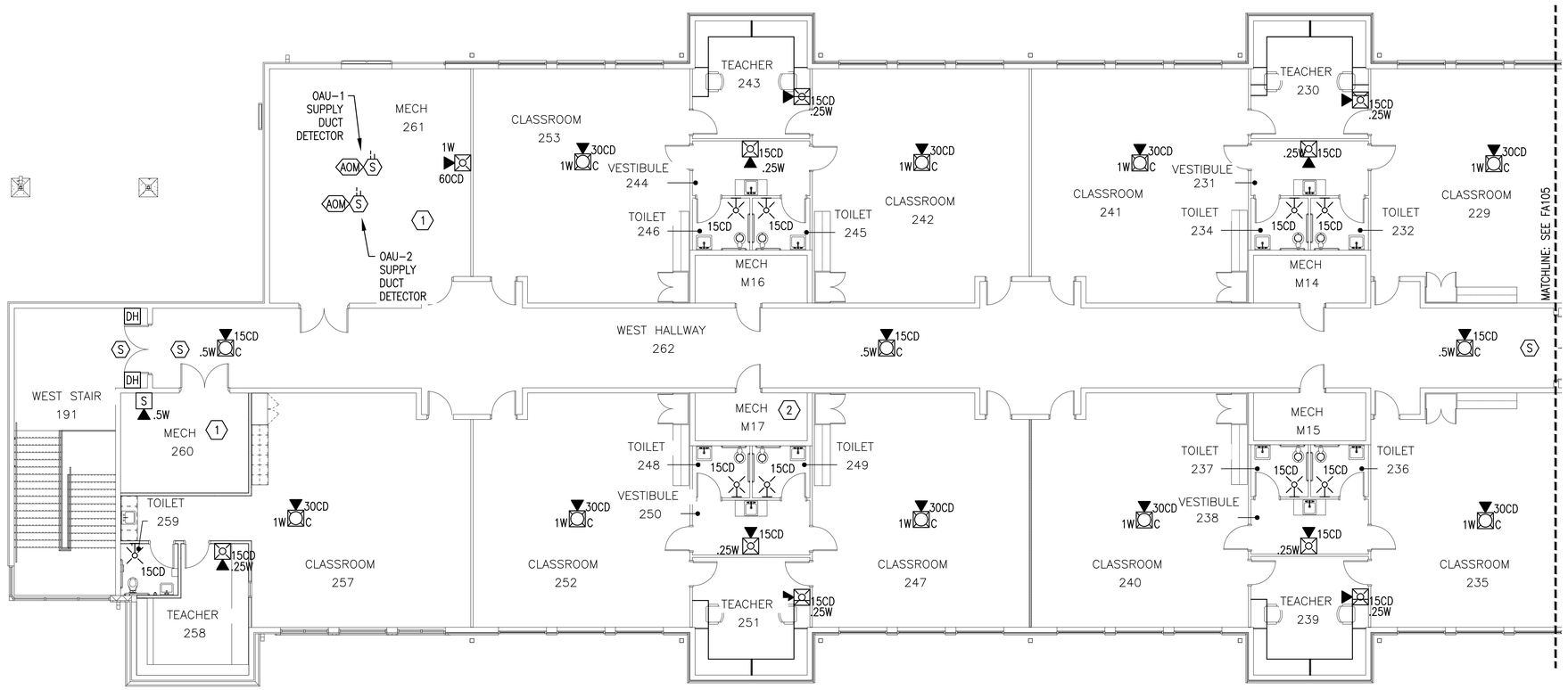

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PARTIAL SECOND FLOOR FIRE ALARM NEW WORK PLAN

SCALE: 1/8" = 1'-0"

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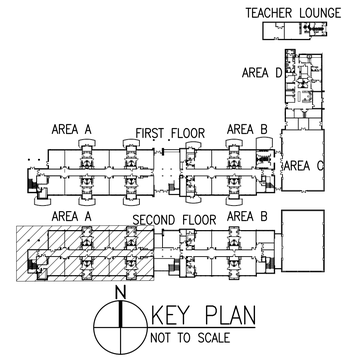
SHEET NOTES

1. THIS SPACE IS NOT REQUIRED TO MEET INTELLIGIBILITY REQUIREMENTS. SPACE SHALL MEET AUDIBILITY REQUIREMENTS.
2. TYPICAL LOCATION FOR AUX/NAC POWER PANEL AS REQUIRED BY CONTRACTOR'S SHOP DRAWING LAYOUT.



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Okaloosa County, Florida

OKALOOSA COUNTY • SCHOOL DISTRICT •

Seal:

ELIJAH KIMMIG LICENSE No. 90730 STATE OF FLORIDA PROFESSIONAL ENGINEER
10/10/2024

Project No.: [redacted]

Drawing Title:
PARTIAL SECOND FLOOR FIRE ALARM NEW WORK PLAN

Date: 10 October 2024

Designed By: EK
Drawn By: DAK
Checked By: GDP

Drawing No.: FA104

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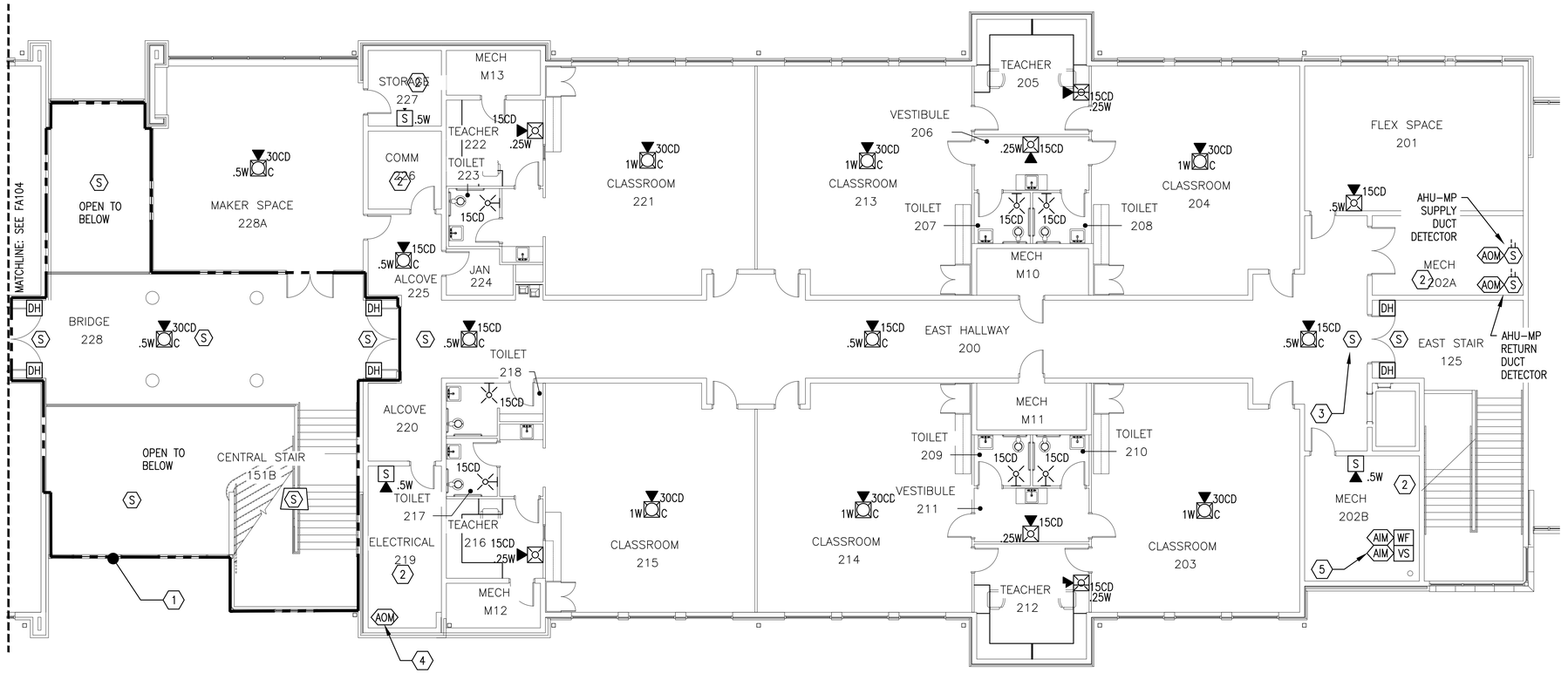

PARTIAL SECOND FLOOR FIRE ALARM NEW WORK PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. THIS SPACE IS A PORTION OF A COMMUNICATING SPACE (MINI-ATRIUM) BETWEEN FIRST AND SECOND FLOOR. THIS SPACE SHALL BE PROVIDED WITH A SMOKE DETECTION SYSTEM THROUGHOUT IAW FFPC/NFPA 101 8.6.6.
2. THIS SPACE IS NOT REQUIRED TO MEET INTELLIGIBILITY REQUIREMENTS. SPACE SHALL MEET AUDIBILITY REQUIREMENTS.
3. SMOKE DETECTOR SHALL BE PROGRAMMED TO PROVIDE ELEVATOR PHASE 1 RECALL AND DOOR RELEASING SERVICE. SMOKE DETECTOR SHALL NOT BE MORE THAN 5 FT FROM THE MAGNETICALLY HELD OPEN DOOR AND NOT MORE THAN 21 FT FROM CENTERLINE OF THE ELEVATOR DOOR.
4. TYPICAL LOCATION FOR AUX/NAC POWER PANEL AND ADDRESSABLE OUTPUT MODULE DISCONNECT. PROVIDE AOM FOR EACH DOOR MAGNET POWER SUPPLY.
5. FLOOR CONTROL VALVE ASSEMBLY. FLOW AND TAMPER SHALL BE MONITORED.

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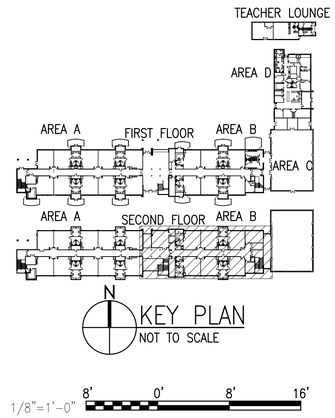

1/8"=1'-0" 8' 0' 8' 16'

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Destin, Florida
Okaloosa County School District
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OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

ELIJAH KIMMIG LICENSED No. 90730 10/10/2024 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 23110FA105
Drawing Title: PARTIAL SECOND FLOOR FIRE ALARM NEW WORK PLAN

Date: 10 October 2024
Designed By: EK
Drawn By: DAK
Checked By: GDP
Drawing No.: FA105

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GENERAL FIRE PROTECTION NOTES

1. SCOPE OF FIRE SUPPRESSION WORK:
PROVIDE AUTOMATIC WET PIPE SPRINKLER SYSTEM IN ALL AREAS OF THE NEW MAIN BUILDING AND THE NEW TEACHERS LOUNGE BUILDING. THE SYSTEM MUST MEET THE REQUIREMENTS OF THE CONTRACT DRAWINGS, CONTRACT SPECIFICATIONS, NFPA 13, FLORIDA BUILDING CODES, FLORIDA FIRE PREVENTION CODE, AND AUTHORITY HAVING JURISDICTION.

2. THE LICENSED CONTRACTOR SHALL PREPARE AND SUBMIT FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS AND THE REFERENCES CONTAINED THEREIN:
   - NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2019 EDITION
   - NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES, 2019 EDITION.
   - NFPA 70 NATIONAL ELECTRICAL CODE, 2020 EDITION.
   - NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE, 2019 EDITION.
   - 2020 FLORIDA BUILDING CODES (FBC), 8TH EDITION (BUILDING, PLUMBING, & MECHANICAL)
   - FLORIDA FIRE PREVENTION CODE (FFPC), 8TH EDITION

3. FLORIDA ADMINISTRATIVE CODE CHAPTER 61G15-32.004 (4) CHECK LIST:
   A. THE FIRE PROTECTION WATER SUPPLY POINT-OF-SERVICE IS THE UPSTREAM SIDE OF THE BACKFLOW PREVENTION ASSEMBLY. THE LOCATION OF POINT OF SERVICE IS SHOWN ON THE CIVIL PLANS.
   B. THE NEW WET PIPE SPRINKLER SYSTEM PROVIDED SHALL BE IN FULL COMPLIANCE WITH NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2019 EDITION. ALL UNDERGROUND FIRE WATER SERVICE MAIN WORK SHALL BE IN FULL COMPLIANCE WITH NFPA 24, STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES, 2019 EDITION.
   C. THE CLASSIFICATION OF HAZARD PER NFPA 13 FOR EACH SPACE IS SHOWN ON THE FIRE SPRINKLER FLOOR PLANS.
   D. SEE "DESIGN APPROACH" ON THIS SHEET.
   E. SEE CIVIL PLANS FOR LOCATIONS AND SIZES OF EXISTING UNDERGROUND MAINS. THE NEW WET PIPE SPRINKLER SYSTEMS WILL BE SUPPLIED FROM THE UNDERGROUND WATER MAIN.
   F. SEE "HYDRANT FLOW TEST DATA" ON THIS SHEET.
   G. A NEW FLOOR CONTROL VALVE ASSEMBLY WITH INDICATING VALVE, CHECK VALVE, AND WATERFLOW SWITCH SHALL BE PROVIDED FOR EACH BUILDING. ALL WATER SUPPLY VALVES AND WATERFLOW SWITCHES SHALL BE MONITORED BY THE FIRE ALARM SYSTEM. SEE FX DRAWINGS AND DIVISION 21 SPECIFICATIONS FOR DETAILED REQUIREMENTS.
   H. NO MIC CORRECTIVE MEASURES HAVE BEEN DESIGNED INTO THE PROJECT. THERE IS NO KNOWN ISSUES OF MIC CORROSION IN THE WATER SUPPLY IN THE AREA OF THIS PROJECT.
   I. THE ENGINEERING DESIGN OF THE FIRE WATER BACKFLOW PREVENTION ASSEMBLY AND WATER METER IS BY CIVIL ENGINEERING. SEE CIVIL PLANS FOR UNDERGROUND WATER SUPPLY DESIGN.
   J. QUALITY SPECIFICATIONS FOR ALL FIRE SPRINKLER SYSTEM COMPONENTS ARE PROVIDED ON THE FX DRAWINGS AND THE DIVISION 21 SPECIFICATIONS. ALL FIRE SPRINKLER EQUIPMENT AND COMPONENTS SHALL BE LISTED AS REQUIRED BY NFPA 13.
   K. A FIRE PUMP IS NOT REQUIRED FOR THIS PROJECT.
   L. A FIRE WATER STORAGE TANK IS NOT REQUIRED FOR THIS PROJECT.
   M. NFPA 13 OWNER'S CERTIFICATE IS NOT REQUIRED FOR THIS PROJECT SINCE THE FACILITY IS NOT A STORAGE FACILITY.

4. THE PIPE ROUTING SHOWN ON THE PLANS IS DIAGRAMMATIC AND SHOWS DESIGN INTENT. CONTRACTOR SHALL FIELD VERIFY CONSTRUCTION CONDITIONS AND COORDINATE ROUTING WITH ALL OTHER TRADES. EXACT PIPE ROUTING SHALL BE SHOWN ON CONTRACTOR'S WORKING DRAWINGS AND SHALL COMPLY WITH THE REQUIREMENTS OF THESE ENGINEERING DRAWINGS, SPECIFICATIONS, CODES, AND STANDARDS.

5. THE LICENSED CONTRACTOR SHALL PREPARE AND SUBMIT FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS IN ACCORDANCE WITH NFPA 13.
   5.1. THE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS INCLUDE BUT ARE NOT LIMITED TO WORKING PLANS, HYDRAULIC CALCULATIONS, AND MATERIAL DATA IN ACCORDANCE WITH NFPA 13 CHAPTER 27.
   5.3. WORKING DRAWINGS, HYDRAULIC CALCULATIONS, AND MATERIAL DATA SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND THE AHJ FOR REVIEW AND APPROVAL. REVIEW AND APPROVAL BY THE AHJ AND A/E SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF COMPLIANCE WITH THE LISTED CODES AND STANDARDS.
   5.4. WORKING DRAWINGS, HYDRAULIC CALCULATIONS, AND MATERIAL DATA SHALL BE SUBMITTED, REVIEWED, AND APPROVED PRIOR TO THE START OF SYSTEM INSTALLATION.
   5.5. WORKING DRAWINGS (SHOP DRAWINGS) SHALL CONFORM TO THE REQUIREMENTS PRESCRIBED IN NFPA 13 AND MUST BE NO SMALLER THAN 22"X34".
   5.6. WORKING DRAWING FLOOR PLANS SHALL BE DRAWN TO A SCALE NOT LESS THAN 1/8-INCH EQUALS 1-FOOT.
   5.7. WORKING PLANS SHALL BE COORDINATED WITH HVAC, PLUMBING, ELECTRICAL, AND OTHER TRADES.
   5.8. HYDRAULIC CALCULATIONS MUST BE AS OUTLINED IN NFPA 13 EXCEPT THAT CALCULATIONS MUST BE PERFORMED BY A COMPUTER USING SOFTWARE INTENDED SPECIFICALLY FOR FIRE PROTECTION SYSTEM DESIGN USING THE DESIGN APPROACH SHOWN ON THE DRAWINGS.
   5.9. HYDRAULIC CALCULATIONS MUST BE IN ACCORDANCE WITH THE AREA/DENSITY METHOD OF NFPA 13. ADD AN ALLOWANCE FOR EXTERIOR HOSE STREAMS OF 250 GPM TO THE SPRINKLER SYSTEM DEMAND AT THE FIRE HYDRANT SHOWN ON THE CIVIL DRAWINGS CLOSEST TO THE POINT WHERE THE WATER SERVICE ENTERS THE BUILDING.

6. ACCEPTANCE TESTING:
   6.1. AFTER COMPLETION OF INSTALLATION OF THE WET PIPE SPRINKLER SYSTEM, THE INSTALLING CONTRACTOR SHALL DO THE FOLLOWING:
   - NOTIFY THE AUTHORITY HAVING JURISDICTION AND THE PROPERTY OWNER OR THE PROPERTY OWNER'S AUTHORIZED REPRESENTATIVE OF THE TIME AND DATE FINAL TESTING WILL BE PERFORMED.
   - PERFORM ALL REQUIRED ACCEPTANCE TESTS AS REQUIRED BY NFPA 13 CHAPTER 28.
   - COMPLETE AND SIGN THE APPROPRIATE CONTRACTORS MATERIAL AND TEST CERTIFICATES AS REQUIRED BY NFPA 13 CHAPTER 28.
   - AFTER TESTING, IF ANY COMPONENT WAS FOUND TO BE DEFECTIVE OR NON-COMPLIANT WITH CONTRACT REQUIREMENTS, PERFORM CORRECTIVE ACTIONS AND REPEAT THE TESTS. TESTS MUST BE CONDUCTED AND REPEATED AS NECESSARY UNTIL THE SYSTEM HAS BEEN DEMONSTRATED TO COMPLY WITH ALL CONTRACT REQUIREMENTS

MICROBIAL INDUCED CORROSION (MIC)

DESTIN WATER USERS, INC. TREATS THE LOCAL WATER SUPPLY WITH CHLORINE AT A CONCENTRATION OF 1.0-1.5 PPM AS A MIC PREVENTION TECHNIQUE. WATER SUPPLIES AND ENVIRONMENTAL CONDITIONS SHALL BE EVALUATED FOR THE EXISTENCE OF MICROBES AND CONDITIONS THAT CONTRIBUTE TO MIC. WHERE CONDITIONS ARE FOUND THAT CONTRIBUTE TO MIC, THE OWNER SHALL NOTIFY THE SPRINKLER SYSTEM INSTALLER AND A PLAN SHALL BE DEVELOPED TO TREAT THE SYSTEM.

DESIGN APPROACH

PROVIDE AN AUTOMATIC WET PIPE SPRINKLER SYSTEM IN ALL AREAS OF THE NEW MAIN BUILDING AND TEACHERS LOUNGE IN ACCORDANCE WITH NFPA 13. HYDRAULICALLY DESIGN THE SYSTEM TO DISCHARGE A MINIMUM DENSITY AS INDICATED ON THIS DRAWING IN ACCORDANCE WITH THE DENSITY/AREA METHOD NFPA 13 CHAPTER 19. ALL SPRINKLERS FOR THE WET PIPE SYSTEM SHALL HAVE AN ORDINARY TEMPERATURE RATING EXCEPT AS OTHERWISE REQUIRED BY NFPA 13 OR THE FLORIDA FIRE PREVENTION CODE. THE HOSE STREAM ALLOWANCE SHALL BE 250 GPM. THE WATER SUPPLY DURATION SHALL BE 90 MINUTES.

NFPA-13 LIGHT HAZARD
DENSITY: 0.1 GPM/FT^2 OVER 1,500 FT^2

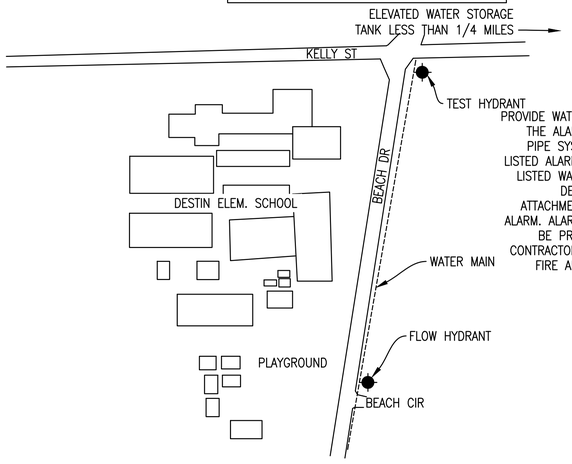
NFPA-13 ORDINARY HAZARD GROUP 1
DENSITY: 0.15 GPM/FT^2 OVER 1,500 FT^2

NFPA-13 ORDINARY HAZARD GROUP 2
DENSITY: 0.2 GPM/FT^2 OVER 1,500 FT^2

FIRE HYDRANT FLOW TEST DATA

DATE: 7/29/2024
TEST CONDUCTED BY: PETERSON ENGINEERING.
STATIC PRESSURE: 64 PSI
RESIDUAL PRESSURE: 57 PSI
(10% DROP ADDED PER NFPA 291)
WATER FLOW: 920 GPM
HYDRANT OUTLET COEFFICIENT: 0.9
WATER PURVEYOR: OKALOOSA COUNTY

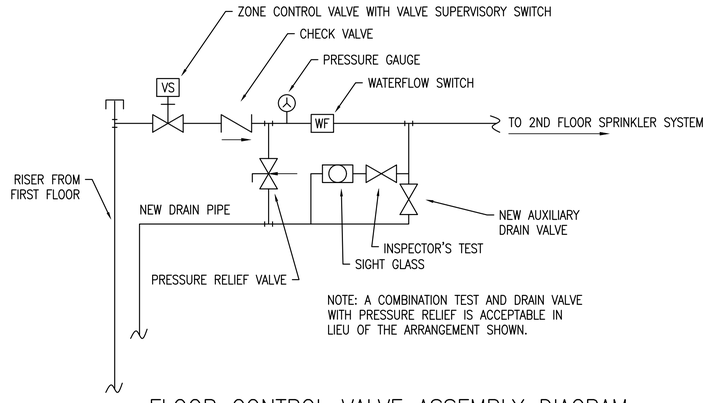
NOTE: THIS IS A PRELIMINARY HYDRANT FLOW TEST. SPRINKLER CONTRACTOR SHALL PERFORM A HYDRANT FLOW TEST AND BASE THEIR HYDRAULIC CALCULATIONS ON THE RESULTS OF THEIR CURRENT HYDRANT FLOW TEST.



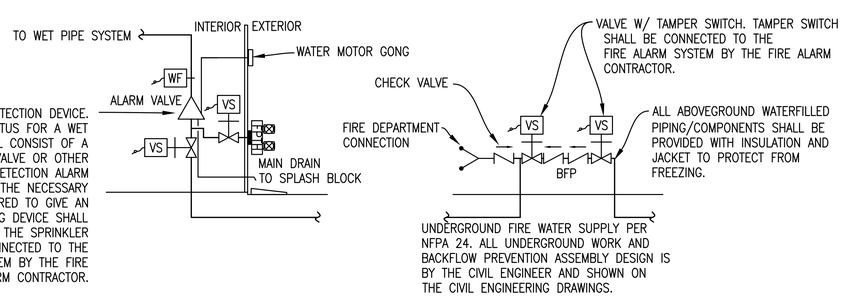
HYDRANT FLOW TEST SITE DIAGRAM

FIRE SUPPRESSION LEGEND

	AUTOMATIC WET PIPE SPRINKLER RISER
W	WATER MOTOR GONG
	BACKFLOW PREVENTER WITH ATTACHED FIRE DEPARTMENT CONNECTION BFP/FDC
	BACKFLOW PREVENTION ASSEMBLY WALL-MOUNTED TEST HEADER
	MAIN DRAIN
	NEW UNDERGROUND PIPING
	NEW ABOVEGROUND PIPING
	FIRE HYDRANT - EXISTING
	CONNECT TO EXISTING AT POINT INDICATED
	FLOW ARROW
BG	BELOW GRADE
IAW	IN ACCORDANCE WITH
(E)	EXISTING
(N)	NEW



FLOOR CONTROL VALVE ASSEMBLY DIAGRAM
NO SCALE



FIRE RISER DIAGRAM

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NOT TO SCALE

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PEI 23110

Revision:

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DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
ELIJAH KIMMIG LICENSE No. 90730 STATE OF FLORIDA PROFESSIONAL ENGINEER
10/10/2024

Project No.: 83X98735
Drawing Title:
FIRE SUPPRESSION GENERAL NOTES

Date: 10 October 2024
Designed By: EK
Drawn By: DAK
Checked By: GDP
Drawing No.: FX001

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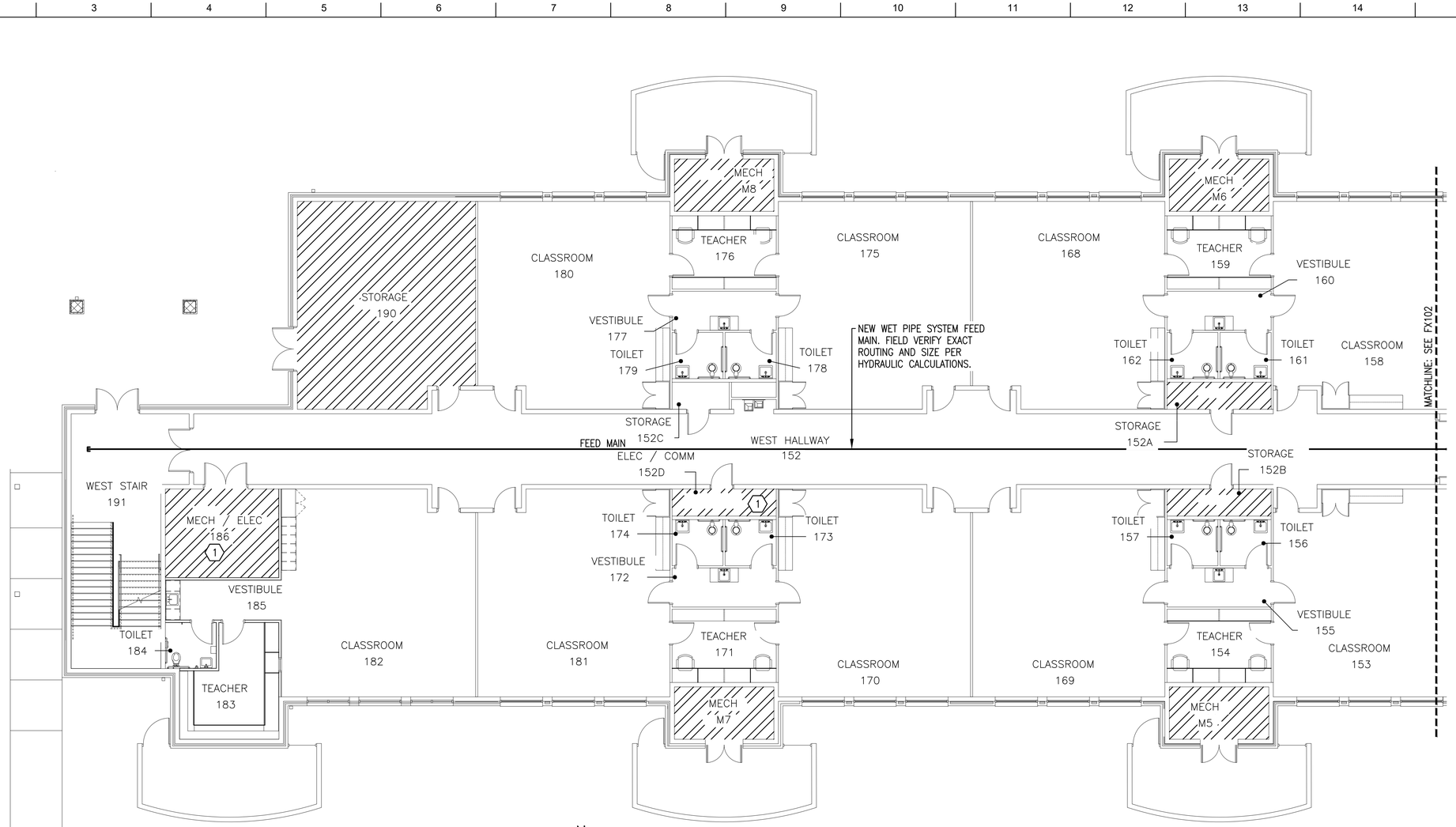

N

PARTIAL FIRST FLOOR FIRE SPRINKLER NEW WORK PLAN

SCALE: 1/8" = 1'-0"

PROVIDE AN AUTOMATIC WET PIPE SPRINKLER SYSTEM PER NFPA 13 THROUGHOUT THE NEW BUILDING. SEE DESIGN APPROACH ON FX001 FOR HYDRAULIC DESIGN CRITERIA.

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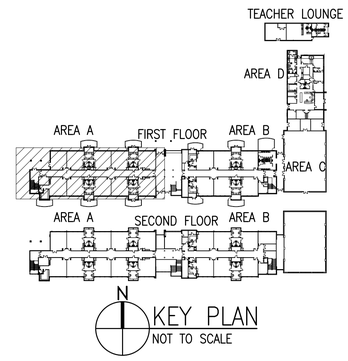
SHEET NOTES

1. THE SPACE EQUAL TO THE WIDTH AND DEPTH OF ELECTRICAL EQUIPMENT WITHIN THIS SPACE AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6 FT ABOVE THE EQUIPMENT SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING SHALL BE LOCATED IN THIS ZONE.



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KEY PLAN

NOT TO SCALE

1/8"=1'-0"

8' 0' 8' 16'

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Okaloosa County, Florida

OKALOOSA COUNTY • SCHOOL DISTRICT •

Seal:

ELIJAH KIMMIG
LICENSE
No. 90730
10/10/2024
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
PARTIAL FIRST FLOOR FIRE SPRINKLER NEW WORK PLAN

Date: 10 October 2024

Designed By: EK
Drawn By: DAK
Checked By: GDP

Drawing No.: FX101

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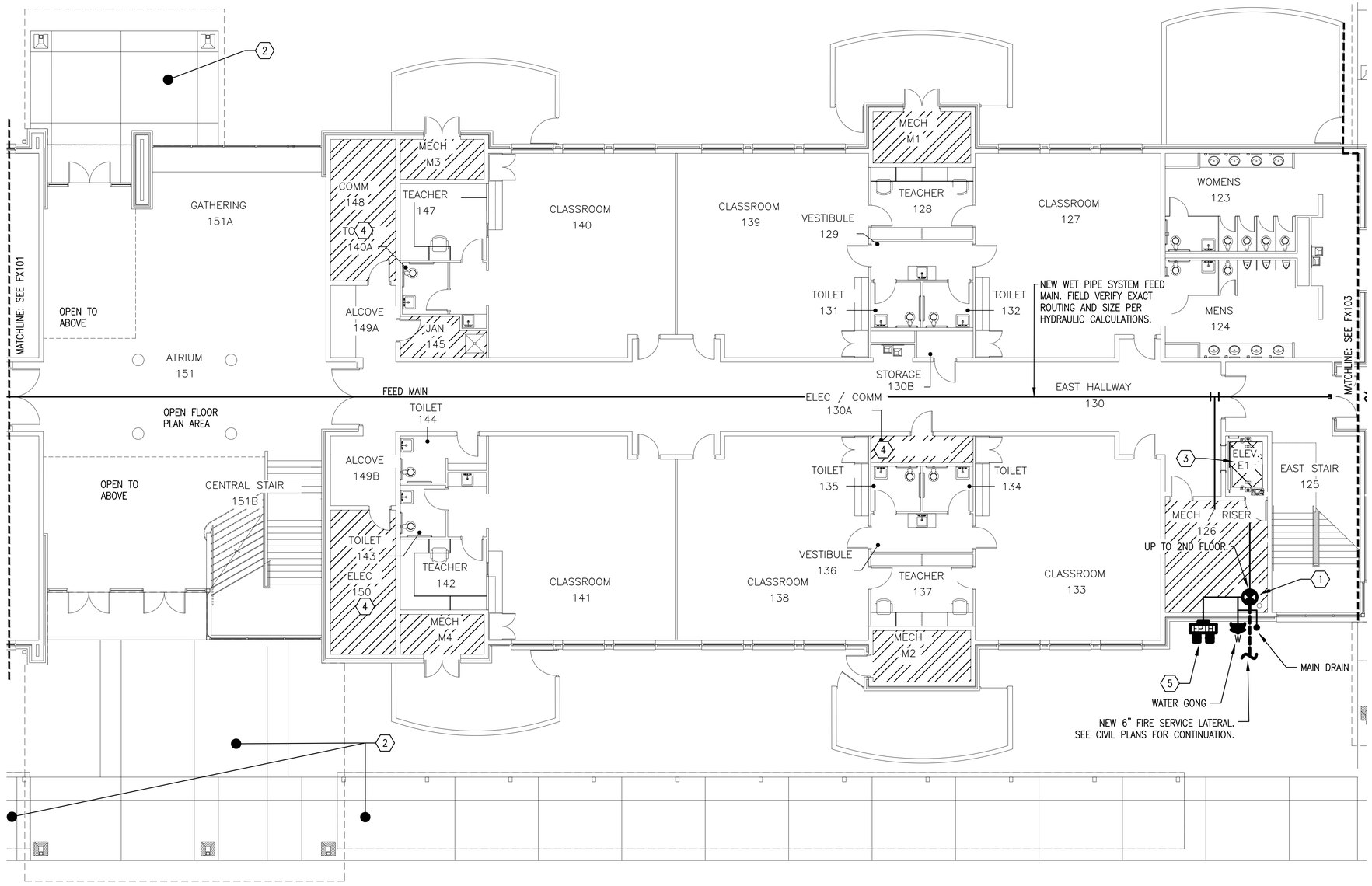


N

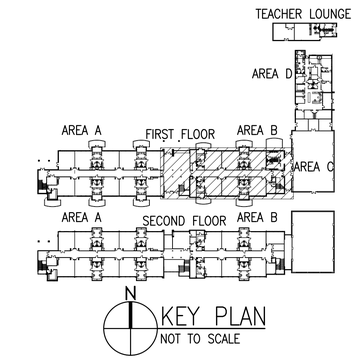
PARTIAL FIRST FLOOR FIRE SPRINKLER NEW WORK PLAN

SCALE: 1/8" = 1'-0"

PROVIDE AN AUTOMATIC WET PIPE SPRINKLER SYSTEM PER NFPA 13 THROUGHOUT THE NEW BUILDING. SEE DESIGN APPROACH ON FX001 FOR HYDRAULIC DESIGN CRITERIA.

SHEET NOTES

1. NEW FIRE RISER LOCATION FOR NEW MAIN BUILDING. PROVIDE ALL REQUIRED CLEARANCES. SEE RISER DIAGRAM ON FX001.
2. SPRINKLER PROTECTION UNDER EXTERIOR PROJECTION/CANOPY IS PERMITTED TO BE OMITTED. AREA SHALL BE LIMITED TO PEDESTRIAN USE AND NO STORAGE IS PERMITTED.
3. PROVIDE SIDEWALL SPRAY SPRINKLERS AT BOTTOM OF HOISTWAY NOT MORE THAN 2 FT ABOVE FLOOR OF PIT.
4. THE SPACE EQUAL TO THE WIDTH AND DEPTH OF ELECTRICAL EQUIPMENT WITHIN THIS SPACE AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6 FT ABOVE THE EQUIPMENT SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING SHALL BE LOCATED IN THIS ZONE.
5. PROVIDE DESIGNATED BACKFLOW TEST HEADER WITH 2 HOSE VALVES FOR FORWARD FLOW TESTING. PROVIDE MOUNTED SIGN WITH THE WORDS "TEST HEADER" TO DIFFERENTIATE FROM FDC.



1/8"=1'-0" 8' 0' 8' 16'

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Seal:

ELIJAH KIMMIG
LICENSE
No. 90730
10/10/2024
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
PARTIAL FIRST FLOOR FIRE SPRINKLER NEW WORK PLAN

Date: 10 October 2024

Designed By: EK
Drawn By: DAK
Checked By: GDP

Drawing No.: FX102

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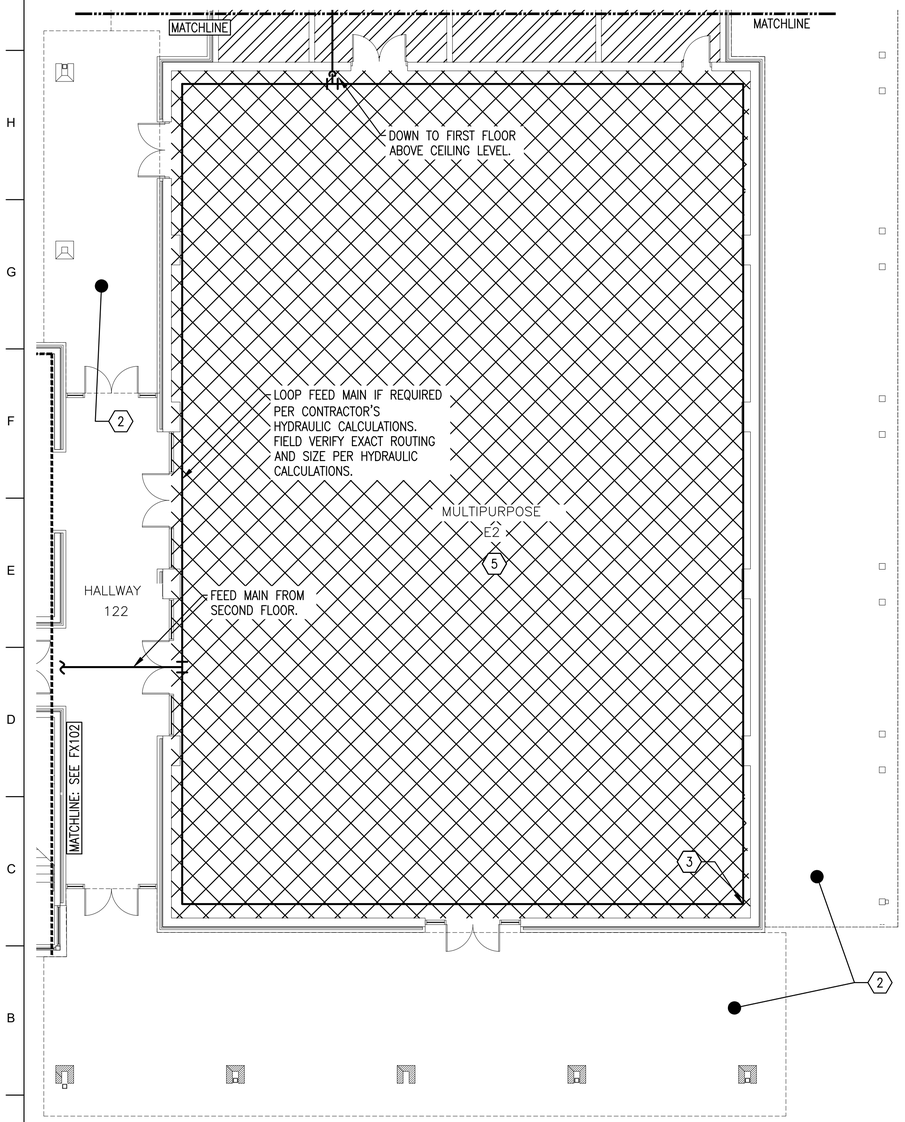
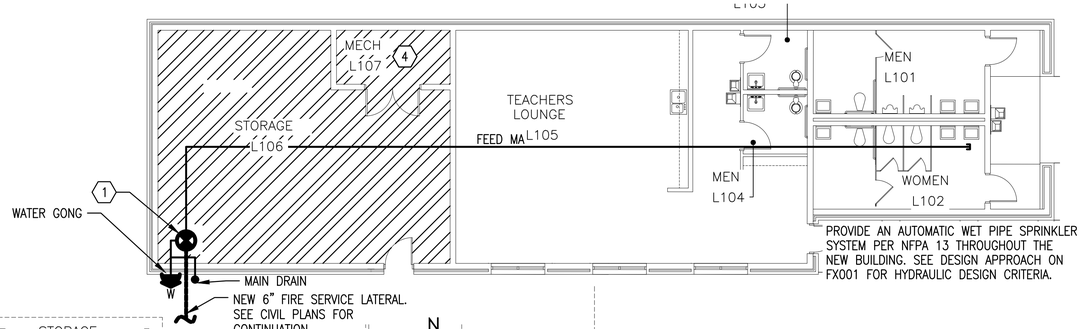
SHEET NOTES

1. NEW FIRE RISER LOCATION FOR TEACHERS' LOUNGE BUILDING. PROVIDE ALL REQUIRED CLEARANCES. SEE RISER DIAGRAM ON FX001.
2. SPRINKLER PROTECTION UNDER EXTERIOR PROJECTION/CANOPY IS PERMITTED TO BE OMITTED. AREA SHALL BE LIMITED TO PEDESTRIAN USE AND NO STORAGE IS PERMITTED.
3. PROVIDE AIR VENT AT SYSTEM HIGH POINT. ROUTE DISCHARGE TO DRAIN TO EXTERIOR.
4. THE SPACE EQUAL TO THE WIDTH AND DEPTH OF ELECTRICAL EQUIPMENT WITHIN THIS SPACE AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6 FT ABOVE THE EQUIPMENT SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING SHALL BE LOCATED IN THIS ZONE.
5. THE MULTIPURPOSE ROOM IS PROVIDED WITH SUSPENDED ACOUSTICAL PANELS. PROVIDE SPRINKLER COVERAGE AT CEILING LEVEL AND BELOW ACOUSTICAL PANELS. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON THE ACOUSTICAL CEILING PANELS. COORDINATE PENETRATIONS IN ACOUSTICAL PANELS WITH ACOUSTICAL PANEL MANUFACTURER.





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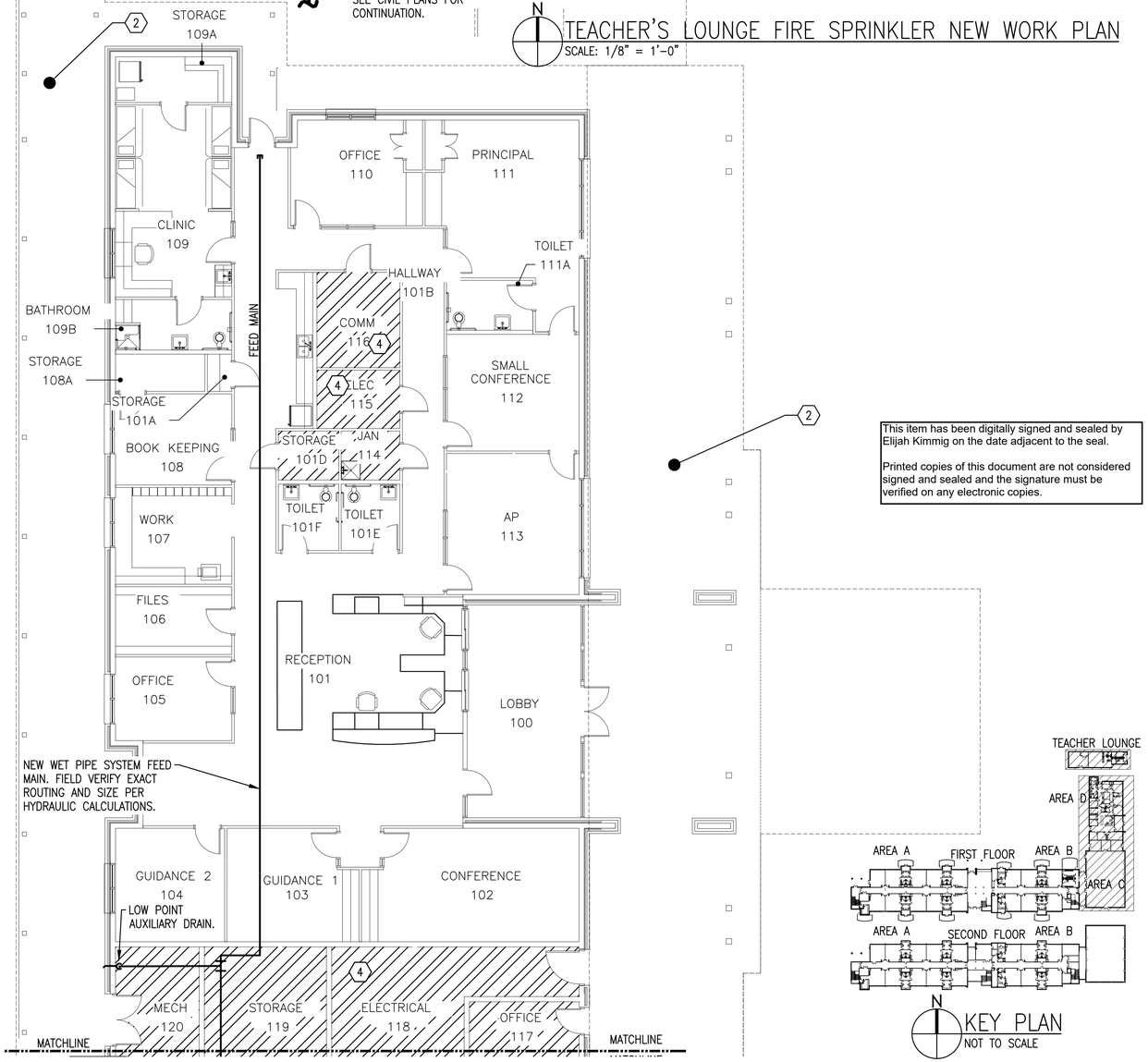
TEACHER'S LOUNGE FIRE SPRINKLER NEW WORK PLAN

SCALE: 1/8" = 1'-0"



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PROVIDE AN AUTOMATIC WET PIPE SPRINKLER SYSTEM PER NFPA 13 THROUGHOUT THE NEW BUILDING. SEE DESIGN APPROACH ON FX001 FOR HYDRAULIC DESIGN CRITERIA.

N

PARTIAL FIRST FLOOR FIRE SPRINKLER NEW WORK PLAN

SCALE: 1/8" = 1'-0"

1/8"=1'-0" 8' 0' 8' 16'

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Okaloosa County, Florida

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Seal:

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No. 90730
10/10/2024
STATE OF FLORIDA
PROFESSIONAL ENGINEER

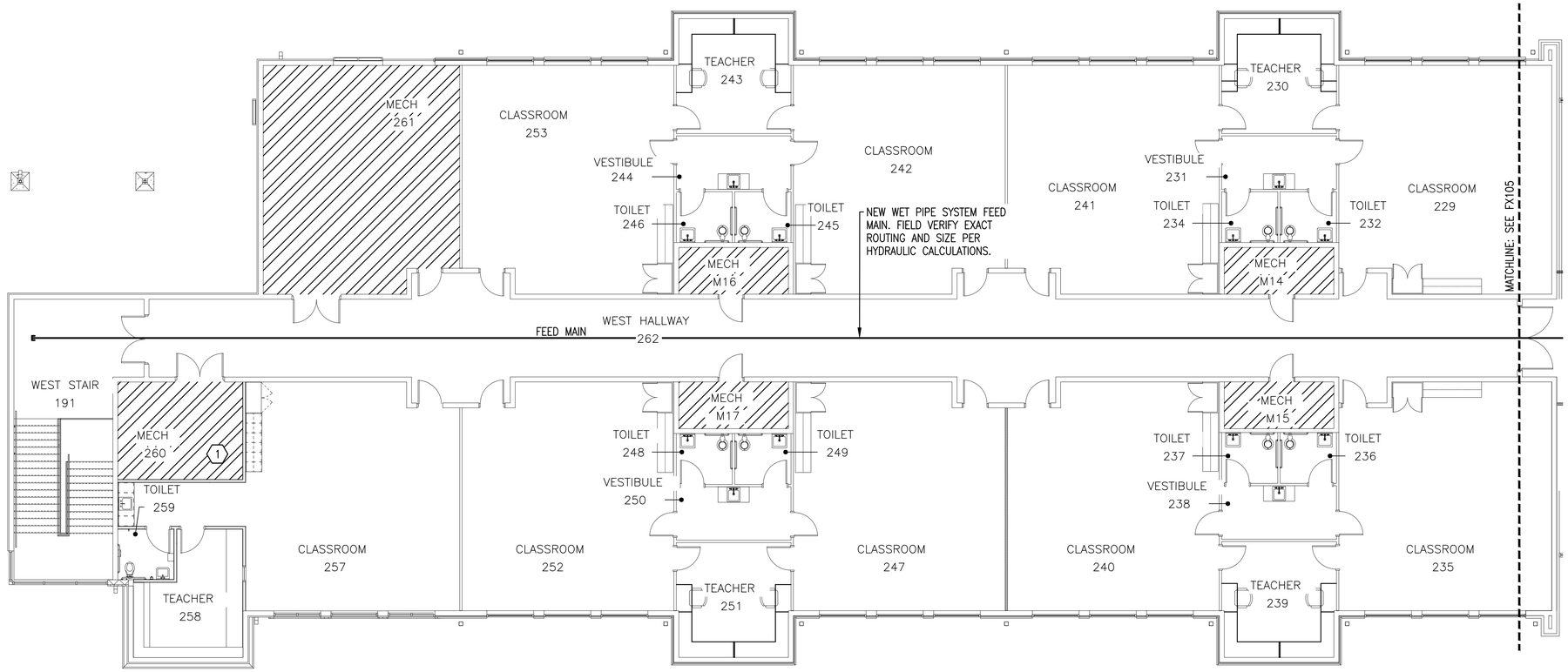
Project No.: 23X00705

Drawing Title:
PARTIAL FIRST FLOOR FIRE SPRINKLER NEW WORK PLAN

Date: 10 October 2024

Designed By: EK
Drawn By: DAK
Checked By: GDP

Drawing No.: FX103



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PARTIAL SECOND FLOOR FIRE SPRINKLER NEW WORK PLAN

SCALE: 1/8" = 1'-0"

PROVIDE AN AUTOMATIC WET PIPE SPRINKLER SYSTEM PER NFPA 13 THROUGHOUT THE NEW BUILDING. SEE DESIGN APPROACH ON FX001 FOR HYDRAULIC DESIGN CRITERIA.

SHEET NOTES

1. THE SPACE EQUAL TO THE WIDTH AND DEPTH OF ELECTRICAL EQUIPMENT WITHIN THIS SPACE AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6 FT ABOVE THE EQUIPMENT SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING SHALL BE LOCATED IN THIS ZONE.

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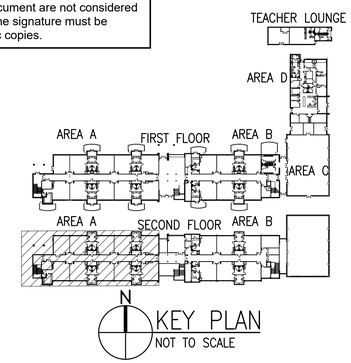

1/8"=1'-0" 8' 0' 8' 16'

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10/10/2024
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Project No.: 23X08725

Drawing Title:
PARTIAL SECOND FLOOR FIRE SPRINKLER NEW WORK PLAN

Date: 10 October 2024

Designed By: EK
Drawn By: DAK
Checked By: GDP

Drawing No.: FX104

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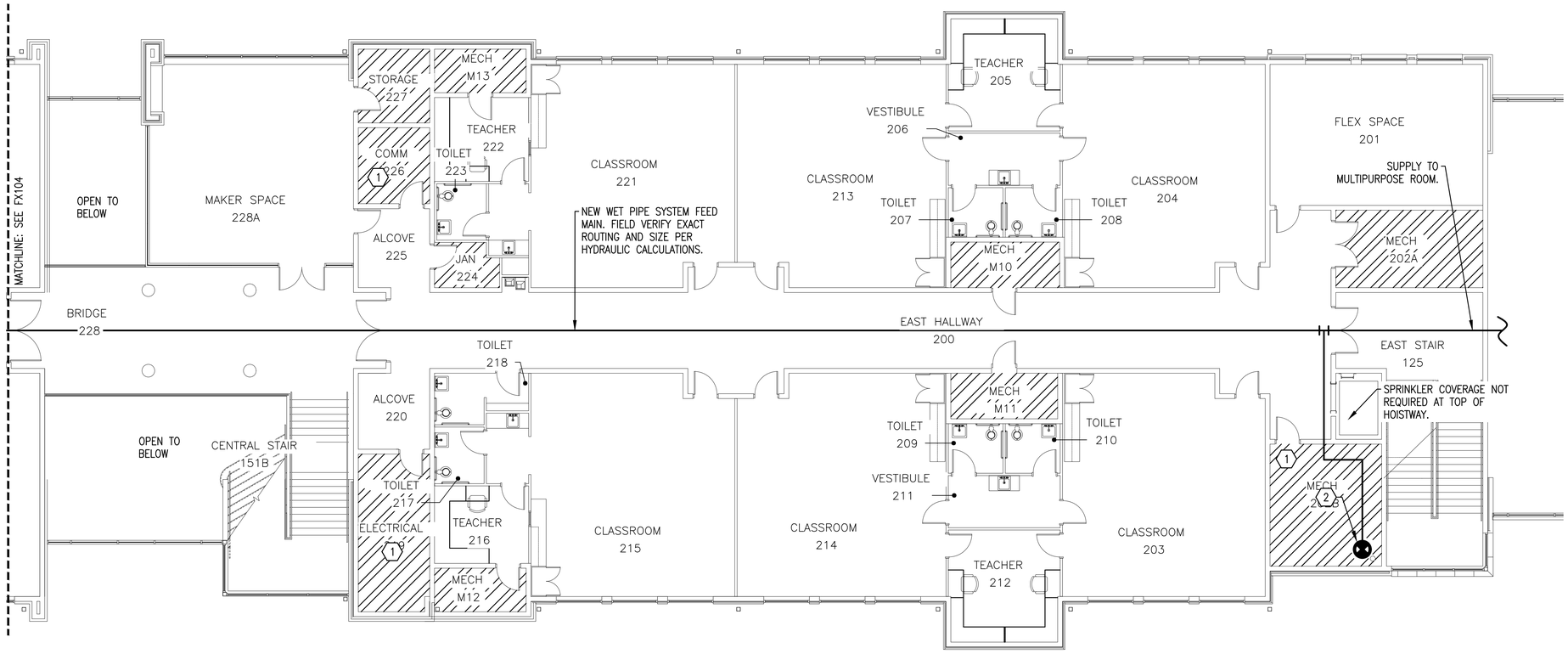

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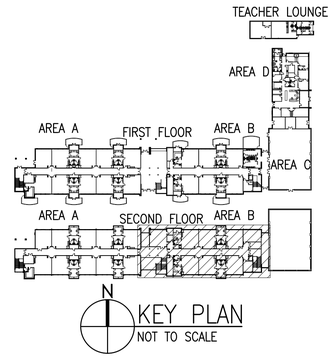
PARTIAL SECOND FLOOR FIRE SPRINKLER NEW WORK PLAN

SCALE: 1/8" = 1'-0"

PROVIDE AN AUTOMATIC WET PIPE SPRINKLER SYSTEM PER NFPA 13 THROUGHOUT THE NEW BUILDING. SEE DESIGN APPROACH ON FX001 FOR HYDRAULIC DESIGN CRITERIA.

SHEET NOTES

1. THE SPACE EQUAL TO THE WIDTH AND DEPTH OF ELECTRICAL EQUIPMENT WITHIN THIS SPACE AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6 FT ABOVE THE EQUIPMENT SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING SHALL BE LOCATED IN THIS ZONE.
2. UP FROM SECOND FLOOR. PROVIDE FLOOR CONTROL ASSEMBLY IN ACCORDANCE WITH DIAGRAM PROVIDED ON FX001.



N

KEY PLAN

NOT TO SCALE

1/8"=1'-0" 8' 0' 8' 16'

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PETERSON ENGINEERING INC.
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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

ELIJAH KIMMIG LICENSE No. 90730 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/2024

Project No.: 83X98735

Drawing Title:
PARTIAL SECOND FLOOR FIRE SPRINKLER NEW WORK PLAN

Date: 10 October 2024

Designed By: EK
Drawn By: DAK
Checked By: GDP

Drawing No.: FX105

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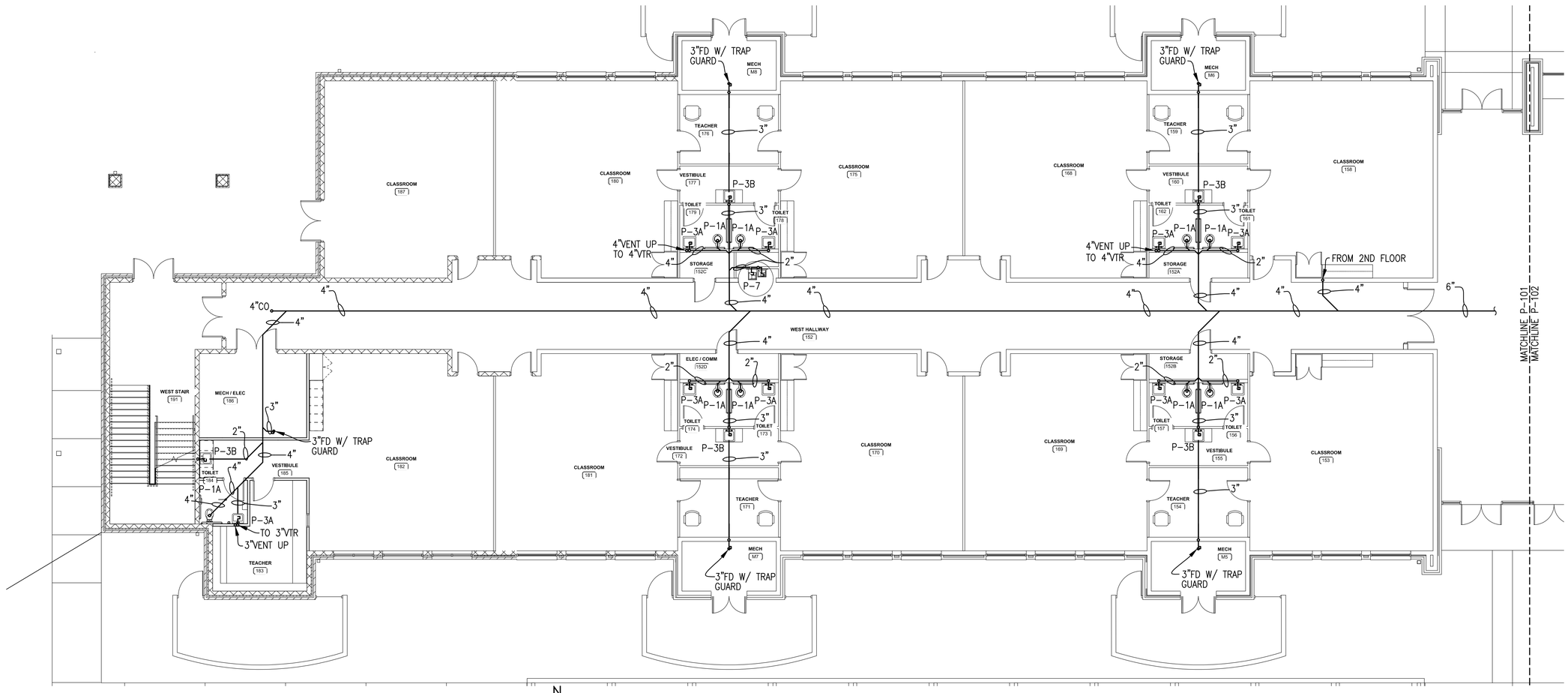


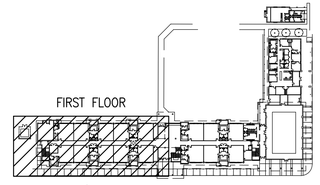
N

PARTIAL 1ST FLOOR PLUMBING PLAN – WASTE – AREA A

SCALE: 1/8"=1'-0"

5' 0 5' 15'

SCALE: 1/8"= 1'- 0"



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Okaloosa County, Florida

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Seal:

GREGORY DAMIAN PETERSON LICENSE No. 34180 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.:

Drawing Title:

PARTIAL 1ST FLOOR PLUMBING PLAN - WASTE - AREA A

Date: 10 October 2024

Designed By: CAJ
Drawn By: CAJ
Checked By: GDP

Drawing No.: P-101

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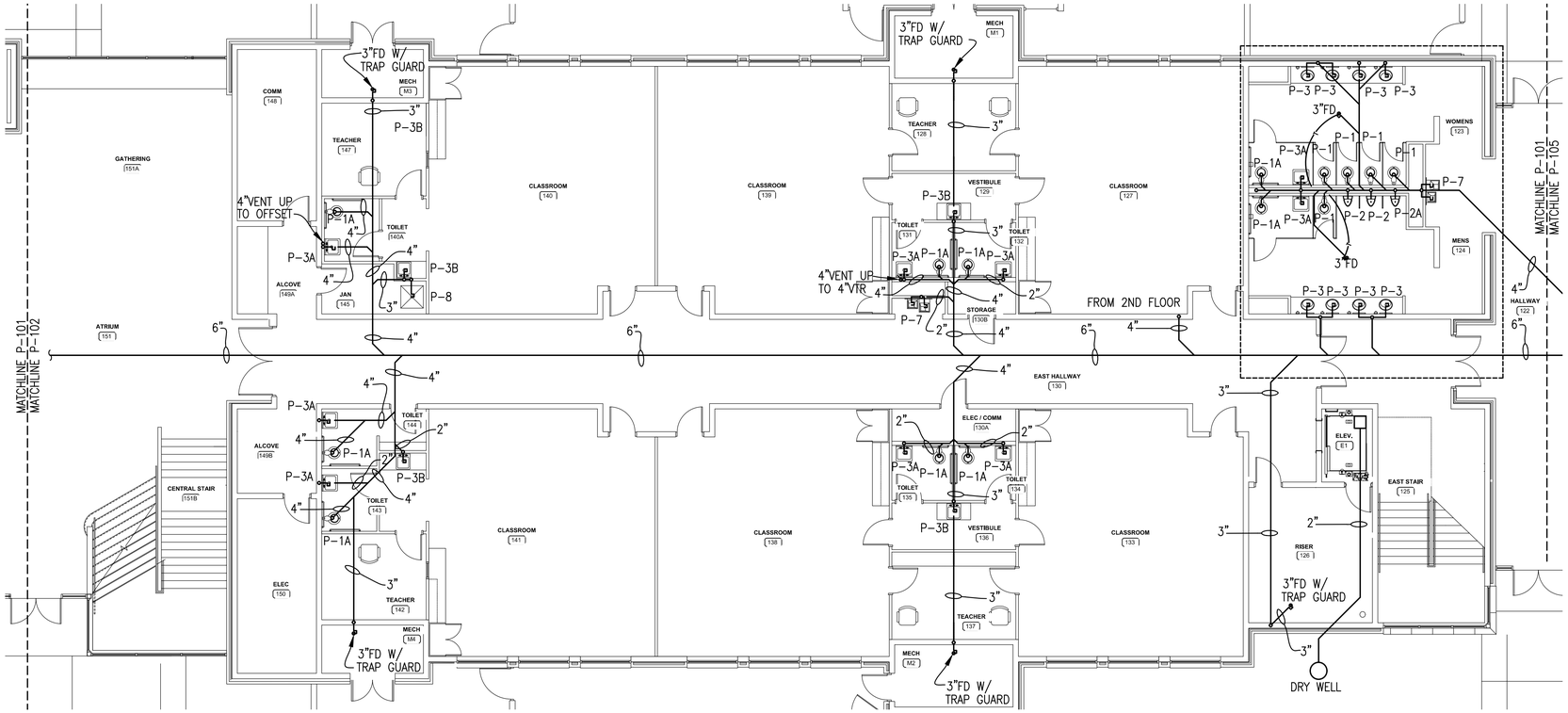
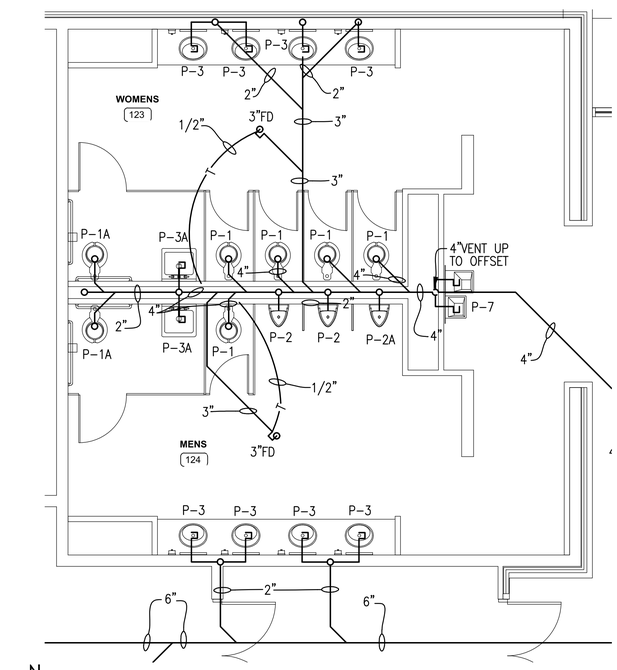


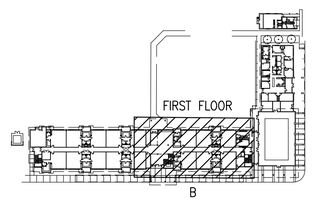
PARTIAL 1ST FLOOR PLUMBING PLAN – WASTE – AREA B
SCALE: 1/8"=1'-0"

5' 0 5' 15'
SCALE: 1/8"= 1'- 0"



ENLARGED RESTROOM PLAN – WASTE – AREA B
SCALE: 1/4"=1'-0"

5' 0 5'
SCALE: 1/4"= 1'-0"



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Okaloosa County, Florida

Seal:

Project No.: 83X98735

Drawing Title:

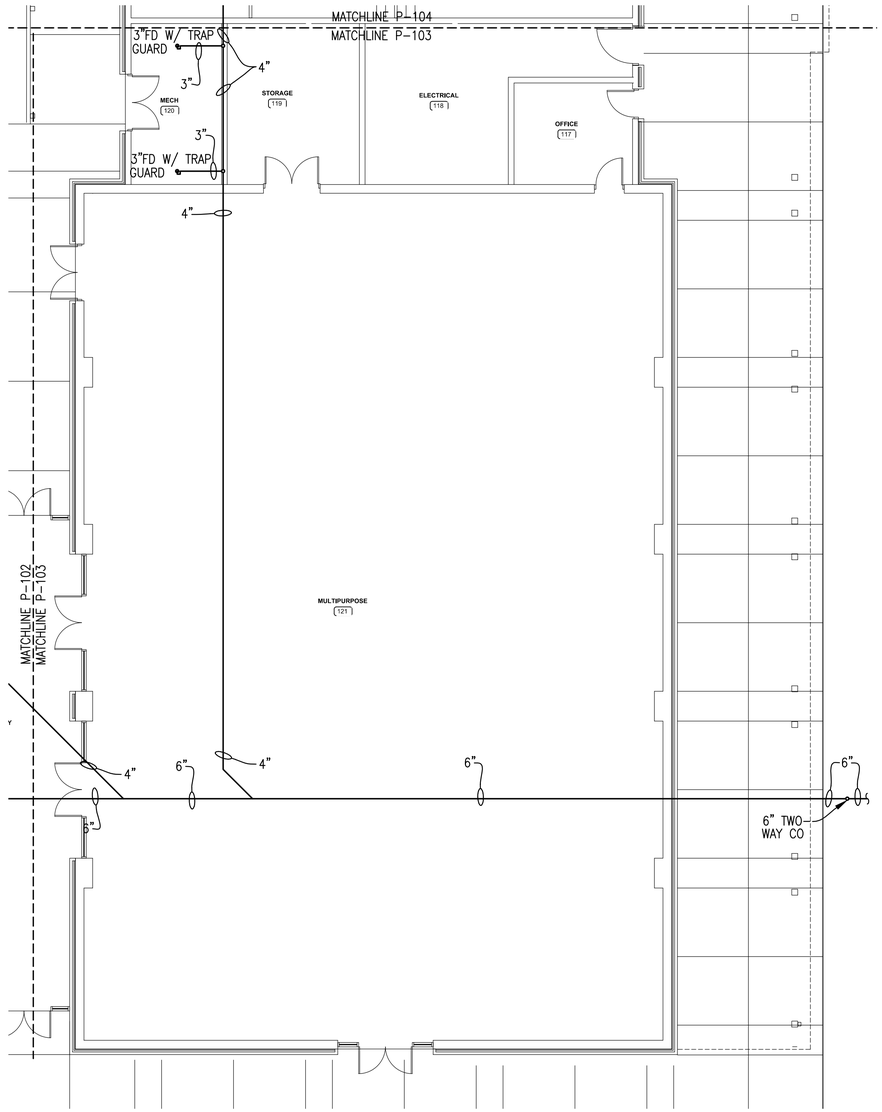
PARTIAL 1ST FLOOR PLUMBING PLAN & ENLARGED RESTROOM PLAN - WASTE - AREA B

Date: 10 October 2024

Designed By: CAJ
Drawn By: CAJ
Checked By: GDP

Drawing No.: P-102

D:\PROJECT\2023\23110 Destin Elementary School Classroom\DWG\Plumbing\23110 P-102.dwg, Layout1, 10/10/2024 10:15:01 AM, joiner



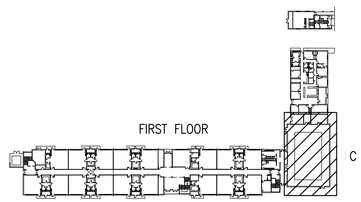
N

PARTIAL 1ST FLOOR PLUMBING PLAN – WASTE – AREA C

SCALE: 1/8"=1'-0"

5' 0 5' 15'

SCALE: 1/8"= 1'- 0"



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Seal:

Project No.: 83Y08735

Drawing Title:

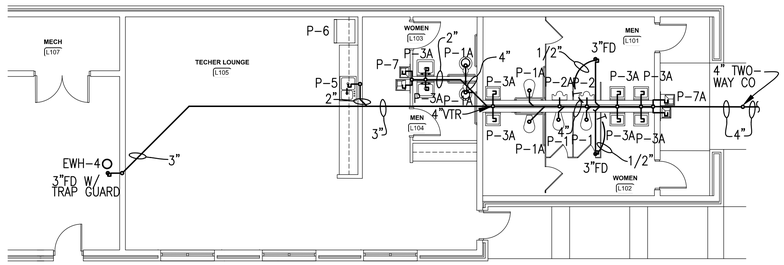
PARTIAL 1ST FLOOR PLUMBING PLAN - WASTE - AREA C

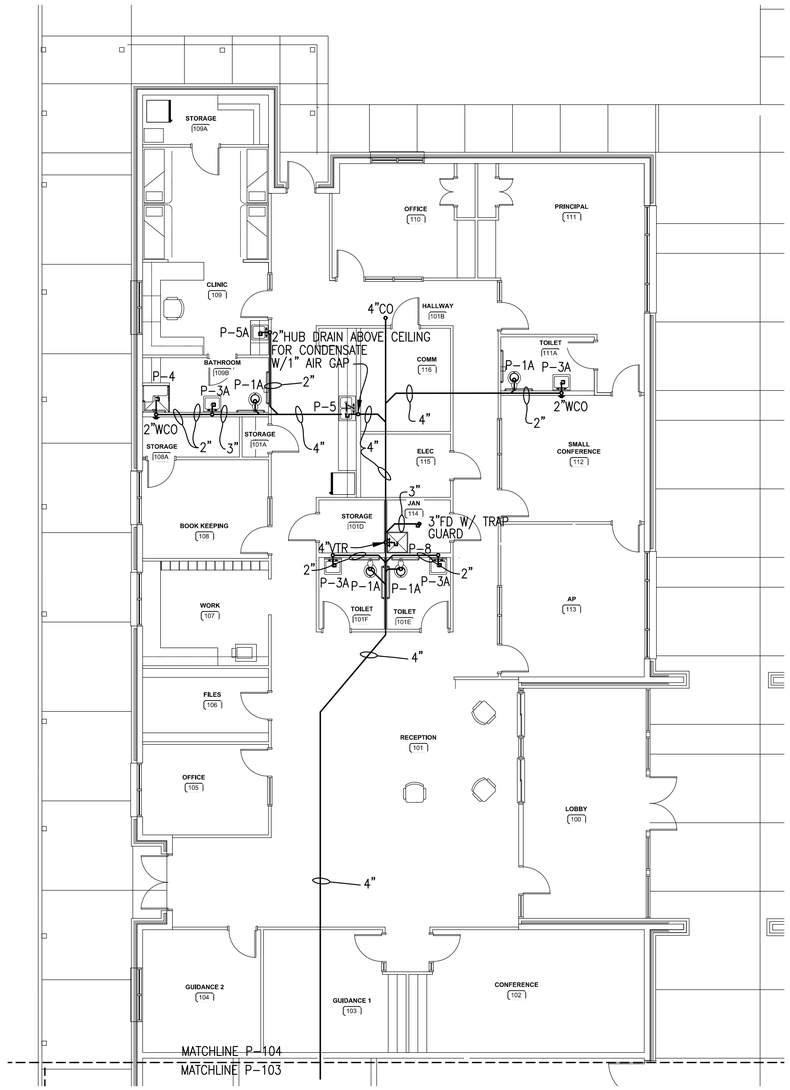
Date: 10 October 2024

Designed By: CAJ
Drawn By: CAJ
Checked By: GDP

Drawing No.: P-103

D:\PROJECT\2023\23110 Destin Elementary School Classroom\DWG\Plumbing\23110 P-103.dwg, Layout1, 10/10/2024 10:15:04 AM, joiner





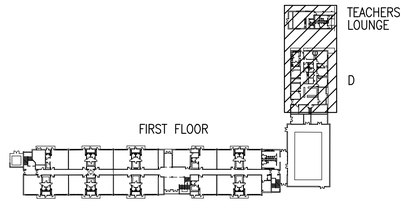
N

PARTIAL 1ST FLOOR PLUMBING PLAN – WASTE – AREA D & TEACHERS LOUNGE

SCALE: 1/8"=1'-0"

5' 0 5' 15'

SCALE: 1/8"= 1'- 0"



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Okaloosa County, Florida

Seal:

Project No.: 8

Drawing Title:

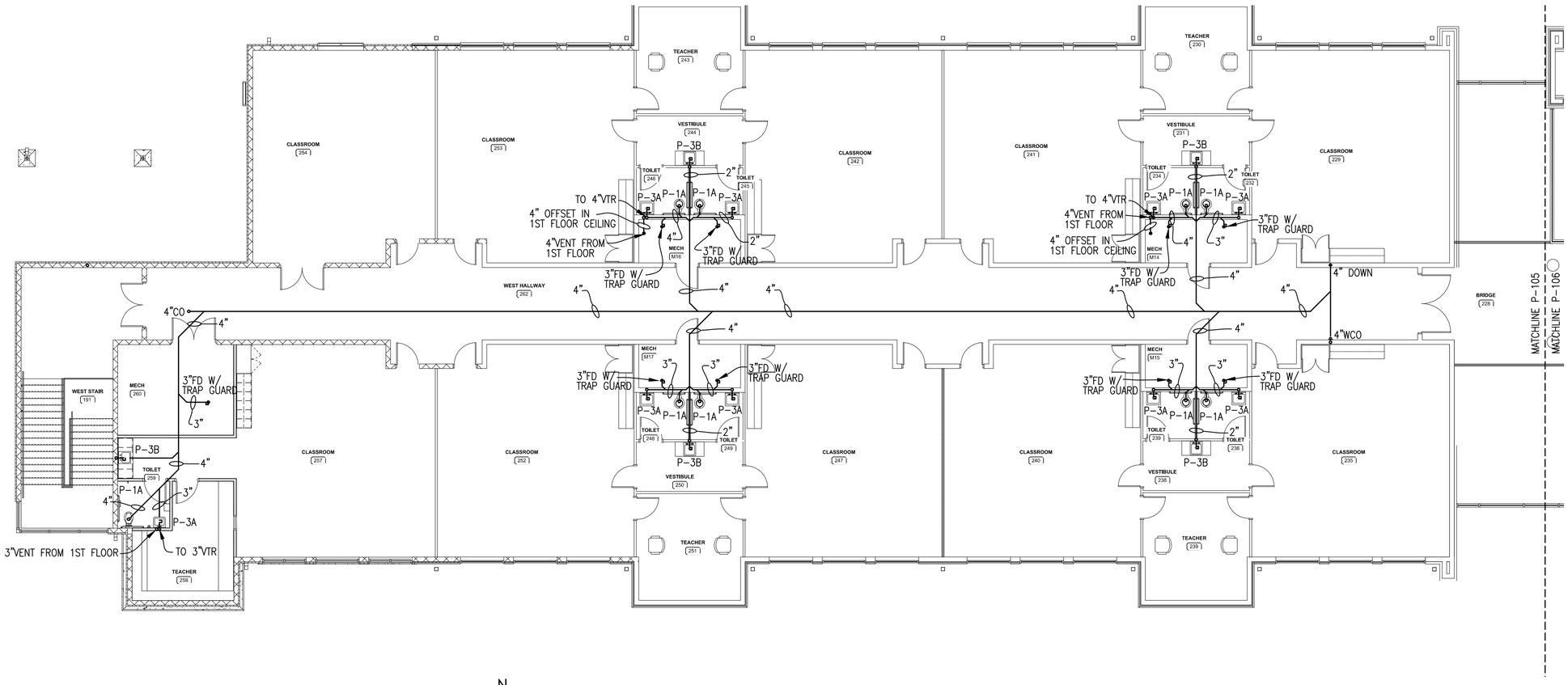
PARTIAL 1ST FLOOR PLUMBING PLAN - WASTE - AREA D & TEACHERS LOUNGE

Date: 10 October 2024

Designed By: CAJ
Drawn By: CAJ
Checked By: GDP

Drawing No.: P-104

D:\PROJECT\2023\23110 Destin Elementary School Classroom\DWG\Plumbing\23110 P-104.dwg, Layout1, 10/10/2024 10:15:06 AM, joiner



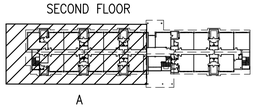
N

PARTIAL 2ND FLOOR PLUMBING PLAN – WASTE – AREA A

SCALE: 1/8"=1'-0"

5' 0 5' 15'

SCALE: 1/8"= 1'- 0"



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Seal:



Project No.: [illegible]

Drawing Title:

PARTIAL 2ND FLOOR PLUMBING PLAN - WASTE - AREA A

Date: 10 October 2024

Designed By: CAJ
Drawn By: CAJ
Checked By: GDP

Drawing No.: P-105

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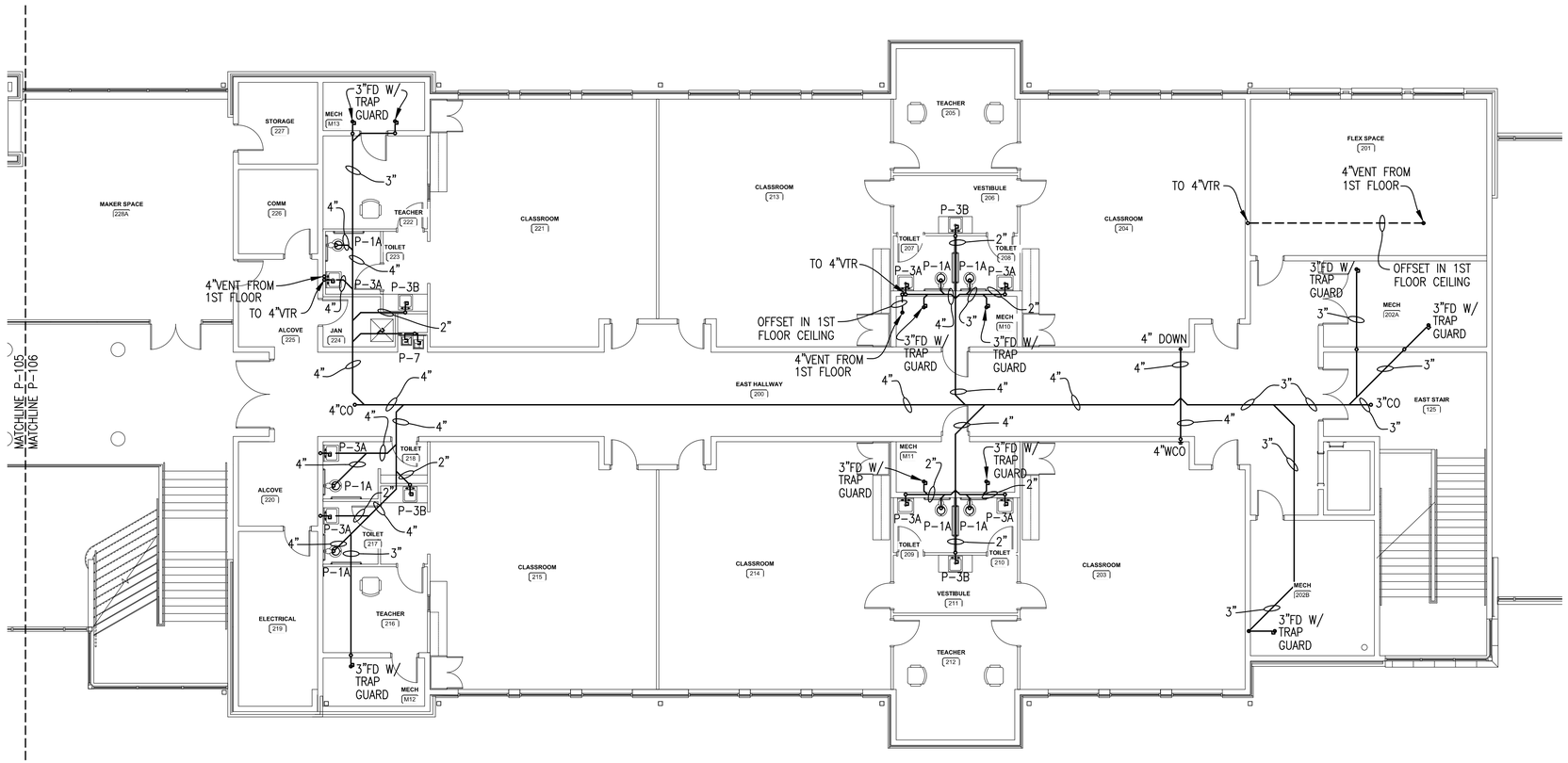

N

PARTIAL 2ND FLOOR PLUMBING PLAN – WASTE – AREA B

SCALE: 1/8"=1'-0"

5' 0 5' 15'

SCALE: 1/8"= 1'- 0"

SECOND FLOOR

B

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Seal:



Project No.: [redacted]

Drawing Title:

PARTIAL 2ND FLOOR PLUMBING PLAN - WASTE - AREA B

Date: 10 October 2024

Designed By: CAJ
Drawn By: CAJ
Checked By: GDP

Drawing No.: P-106

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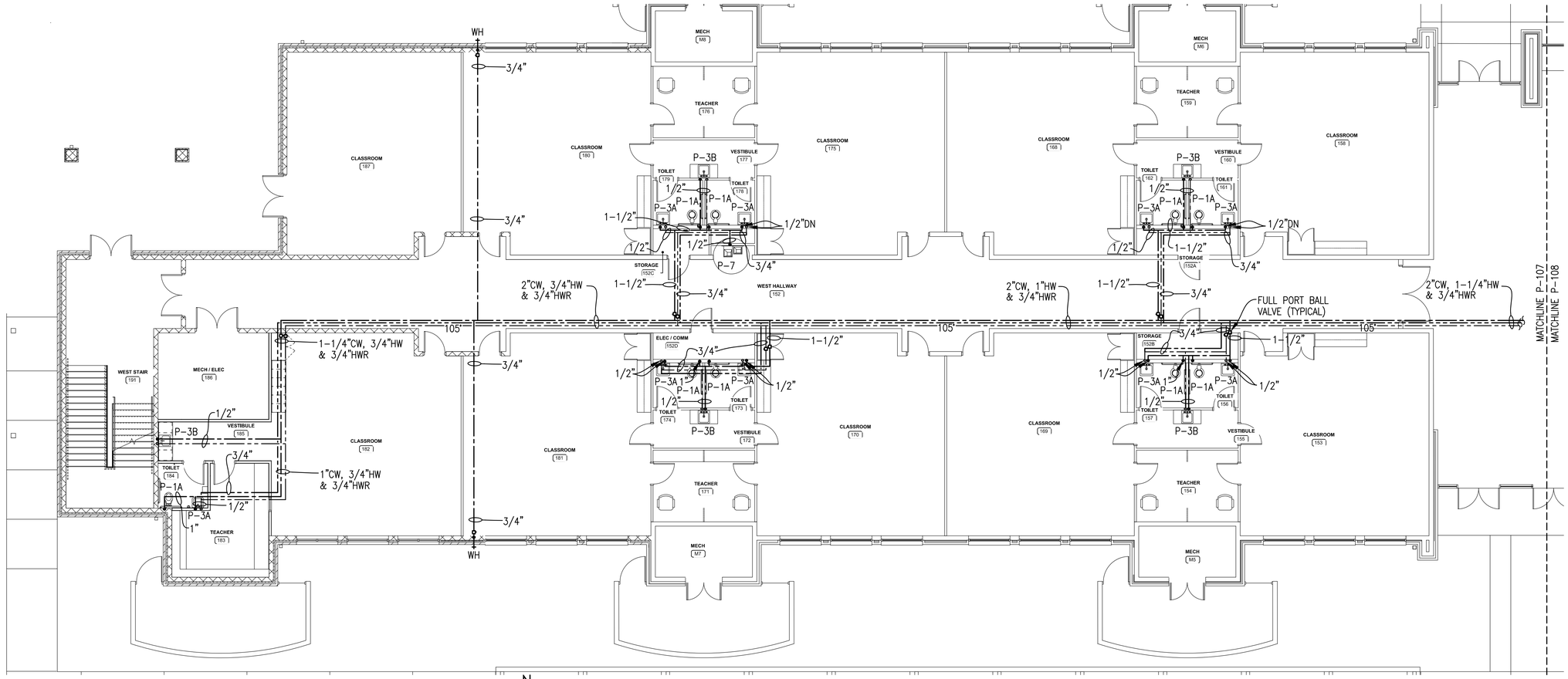


N

PARTIAL 1ST FLOOR PLUMBING PLAN – WATER – AREA A

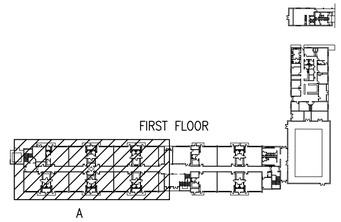
SCALE: 1/8"=1'-0"

5' 0 5' 15'

SCALE: 1/8"= 1'- 0"

SHEET NOTE:

PROVIDE THERMOSTATIC MIXING VALVES AT EACH LAVATORY AND HAND SINK. SET THERMOSTAT TO 105°F.



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Seal:

GREGORY DAMARY PETERSON
No. 34089
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Project No.: [redacted]

Drawing Title:

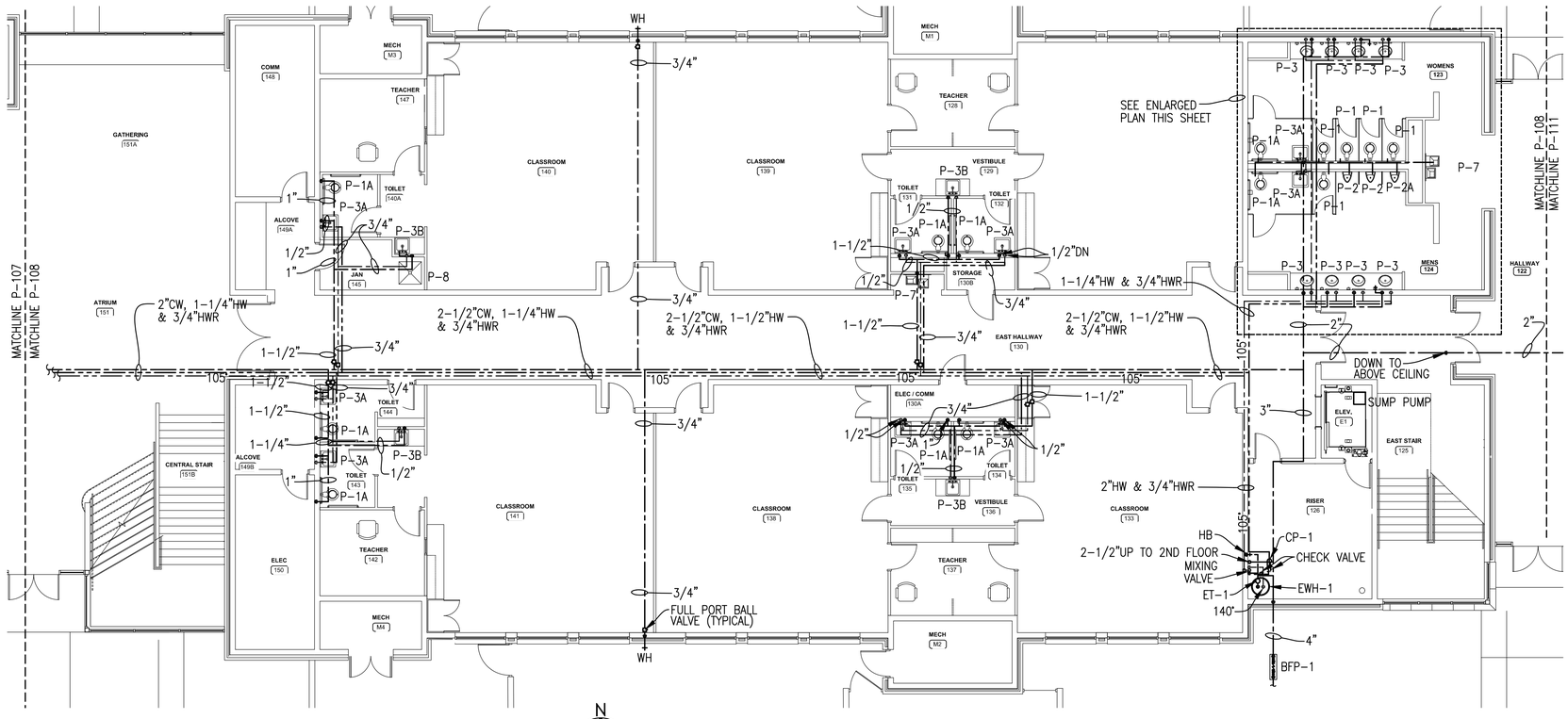
PARTIAL 1ST FLOOR PLUMBING PLAN - WATER - AREA A

Date: 10 October 2024

Designed By: CAJ
Drawn By: CAJ
Checked By: GDP

Drawing No.: P-107

D:\PROJECT\2023\23110 Destin Elementary School Classroom\DWG\Plumbing\23110 P-107.dwg, Layout1, 10/10/2024 10:15:13 AM, joiner



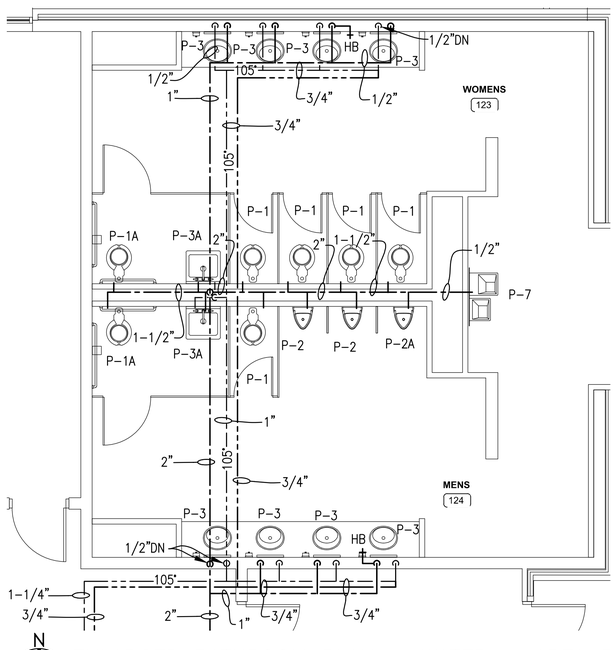
N

PARTIAL 1ST FLOOR PLUMBING PLAN – WATER – AREA B

SCALE: 1/8"=1'-0"

5' 0 5' 15'

SCALE: 1/8"= 1'- 0"



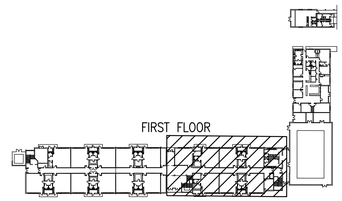
N

ENLARGED BATHROOM PLAN – WATER – AREA B

SCALE: 1/4"=1'-0"

SHEET NOTE:

PROVIDE THERMOSTATIC MIXING VALVES AT EACH LAVATORY AND HAND SINK. SET THERMOSTAT TO 105°F.



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Seal:

GREGORY DAMON JOINER LICENSE No. 34180 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:

PARTIAL 1ST FLOOR PLUMBING PLAN & ENLARGED RESTROOM PLAN - WATER - AREA B

Date: 10 October 2024

Designed By: CAJ
Drawn By: CAJ
Checked By: GDP

Drawing No.: P-108

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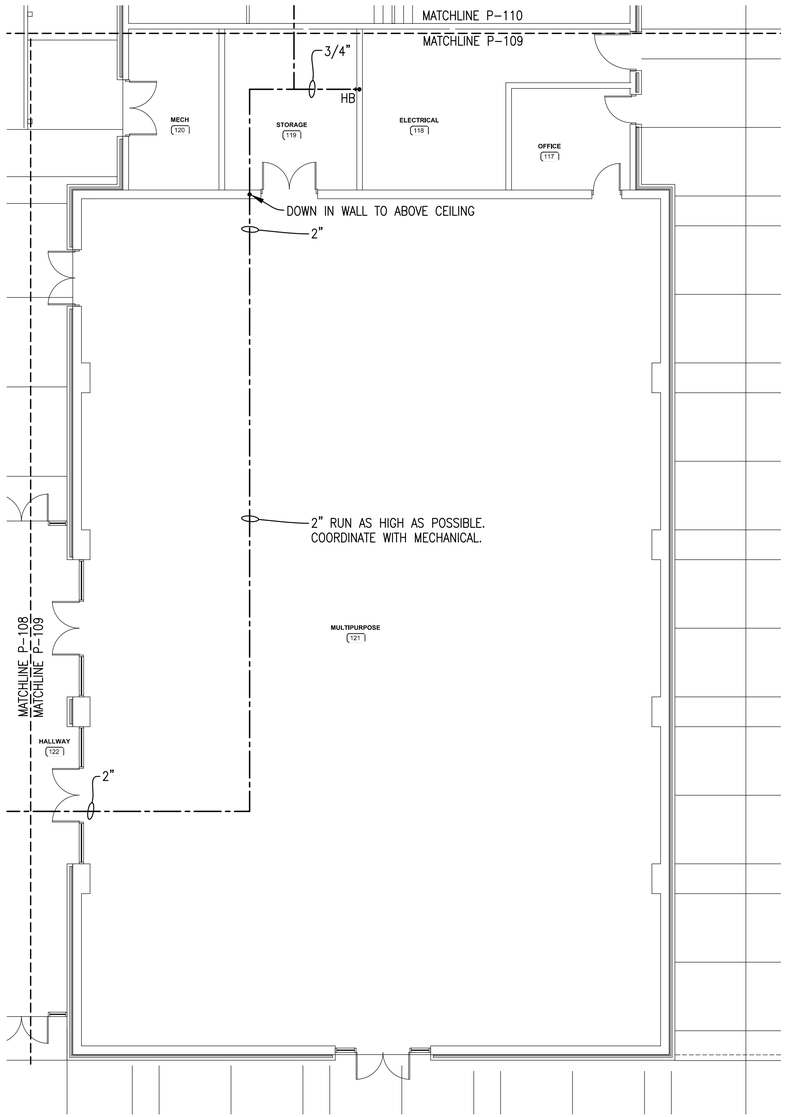


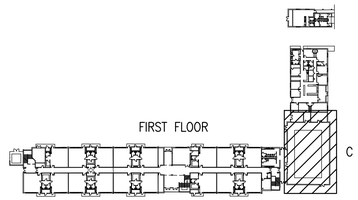
N

PARTIAL 1ST FLOOR PLUMBING PLAN – WATER – AREA C

SCALE: 1/8"=1'-0"

5' 0 5' 15'

SCALE: 1/8"= 1'- 0"



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Seal:

GREGORY DAMON PETERSON No. 34089 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

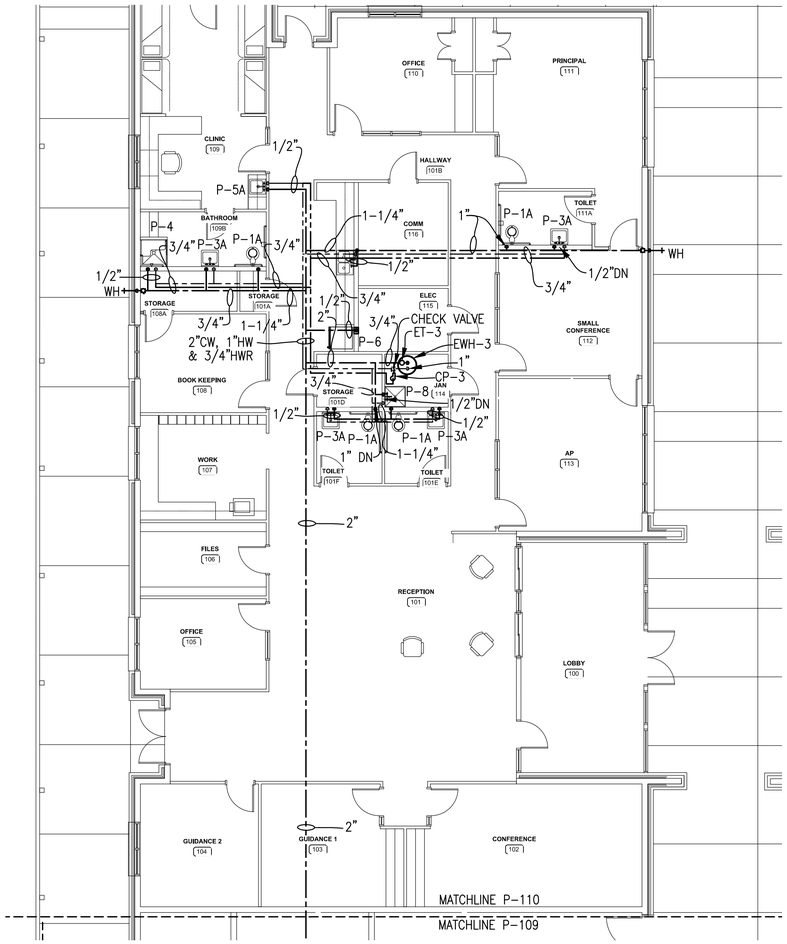
Drawing Title:

PARTIAL 1ST FLOOR PLUMBING PLAN - WATER - C

Date: 10 October 2024

Designed By: CAJ
Drawn By: CAJ
Checked By: GDP

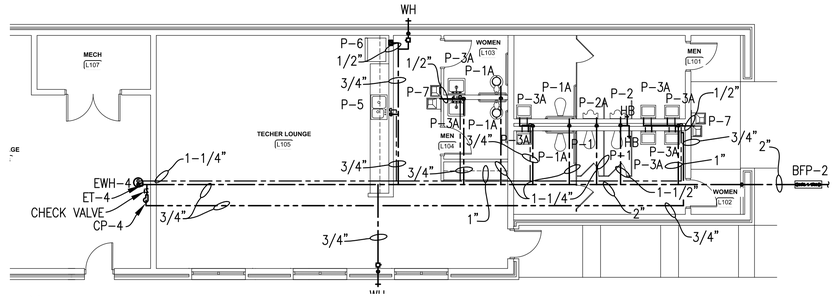
Drawing No.: P-109



N

PARTIAL 1ST FLOOR PLUMBING PLAN – WATER – AREAD D

SCALE: 1/8"=1'-0"



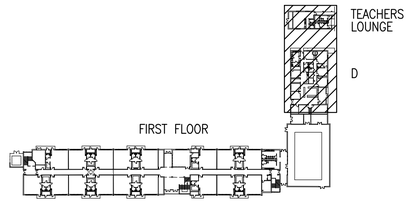
N

PARTIAL 1ST FLOOR PLUMBING PLAN – WATER – TEACHERS LOUNGE

SCALE: 1/8"=1'-0"

SHEET NOTE:

PROVIDE THERMOSTATIC MIXING VALVES AT EACH LAVATORY AND HAND SINK. SET THERMOSTAT TO 110°F.



N

KEY PLAN

NOT TO SCALE

5' 0 5' 15'

SCALE: 1/8"= 1'- 0"

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Revision:

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DESTIN ELEMENTARY SCHOOL
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Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal:

Project No.: 23110

Drawing Title:

PARTIAL 1ST FLOOR PLUMBING PLAN - WATER - AREA D & TEACHERS LOUNGE

Date: 10 October 2024

Designed By: CAJ
Drawn By: CAJ
Checked By: GDP

Drawing No.: P-110

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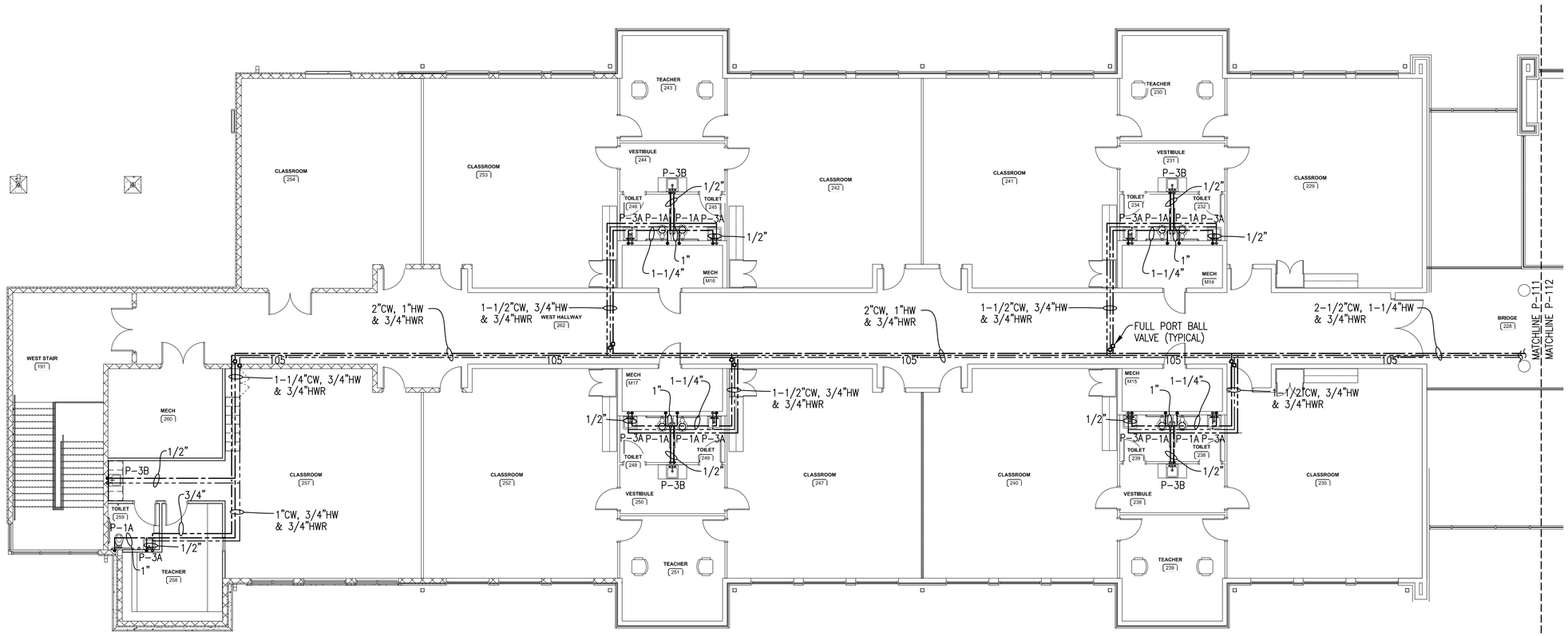

N

PARTIAL 2ND FLOOR PLUMBING PLAN – WATER – AREA A

SCALE: 1/8"=1'-0"

5' 0 5' 15'

SCALE: 1/8"= 1'- 0"

SHEET NOTE:

PROVIDE THERMOSTATIC MIXING VALVES AT EACH LAVATORY AND HAND SINK. SET THERMOSTAT TO 105°F.

SECOND FLOOR

A

N

KEY PLAN

NOT TO SCALE

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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Revision:

Date:	By:	Description:

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Okaloosa County, Florida

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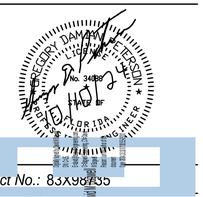

Project No.: 83X98735

Drawing Title:
PARTIAL 2ND FLOOR PLUMBING PLAN - WATER - AREA A

Date: 10 October 2024

Designed By: CAJ
Drawn By: CAJ
Checked By: GDP

Drawing No.: P-111

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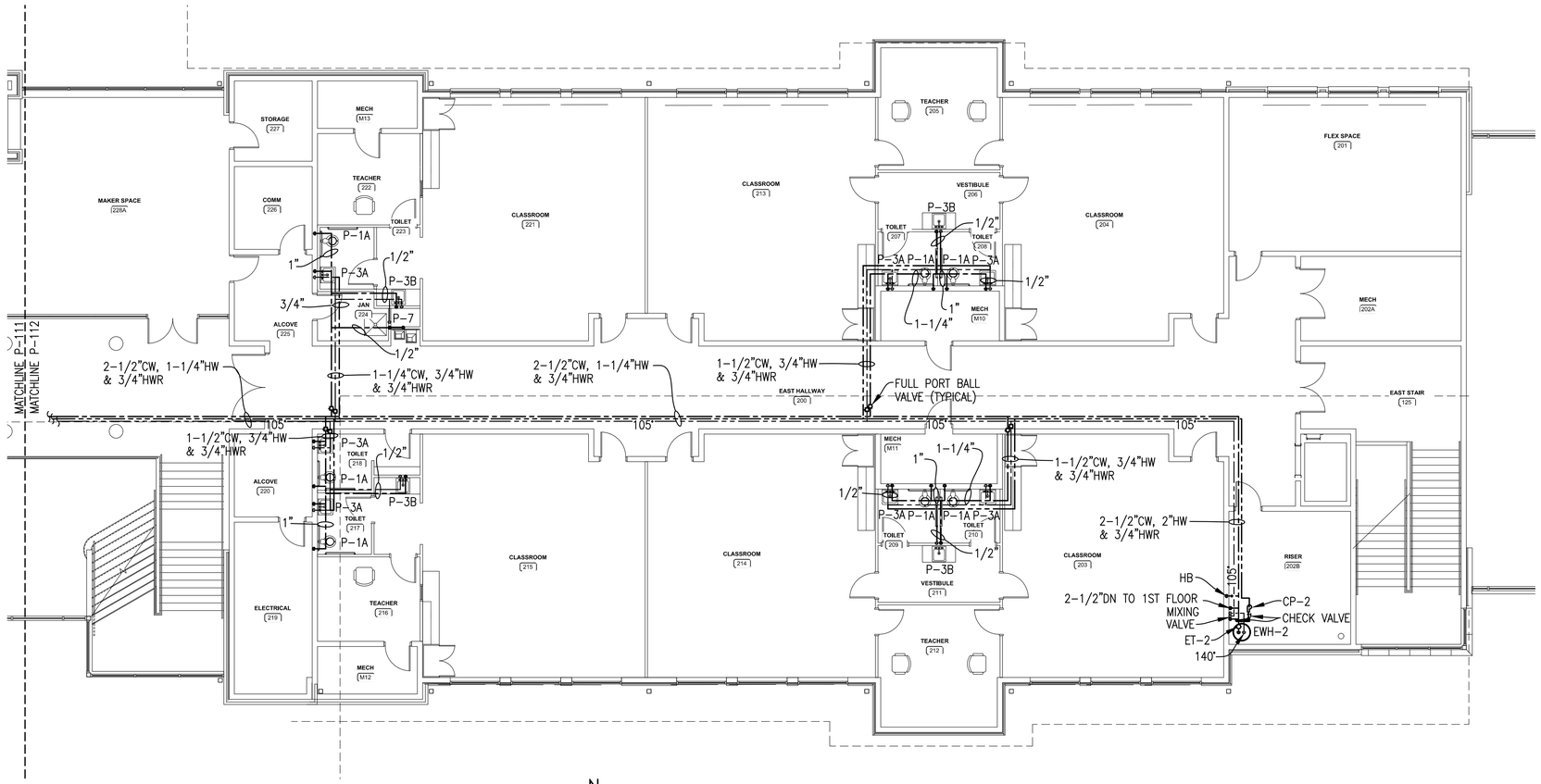

PARTIAL 2ND FLOOR PLUMBING PLAN – WATER – AREA B

SCALE: 1/8"=1'-0"

5' 0 5' 15'

SCALE: 1/8"= 1'- 0"

SHEET NOTE:

PROVIDE THERMOSTATIC MIXING VALVES AT EACH LAVATORY AND HAND SINK. SET THERMOSTAT TO 105°F.

SECOND FLOOR

B

KEY PLAN

NOT TO SCALE

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Revision:

Date:	By:	Description:

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3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal:

Project No.: 83X98735

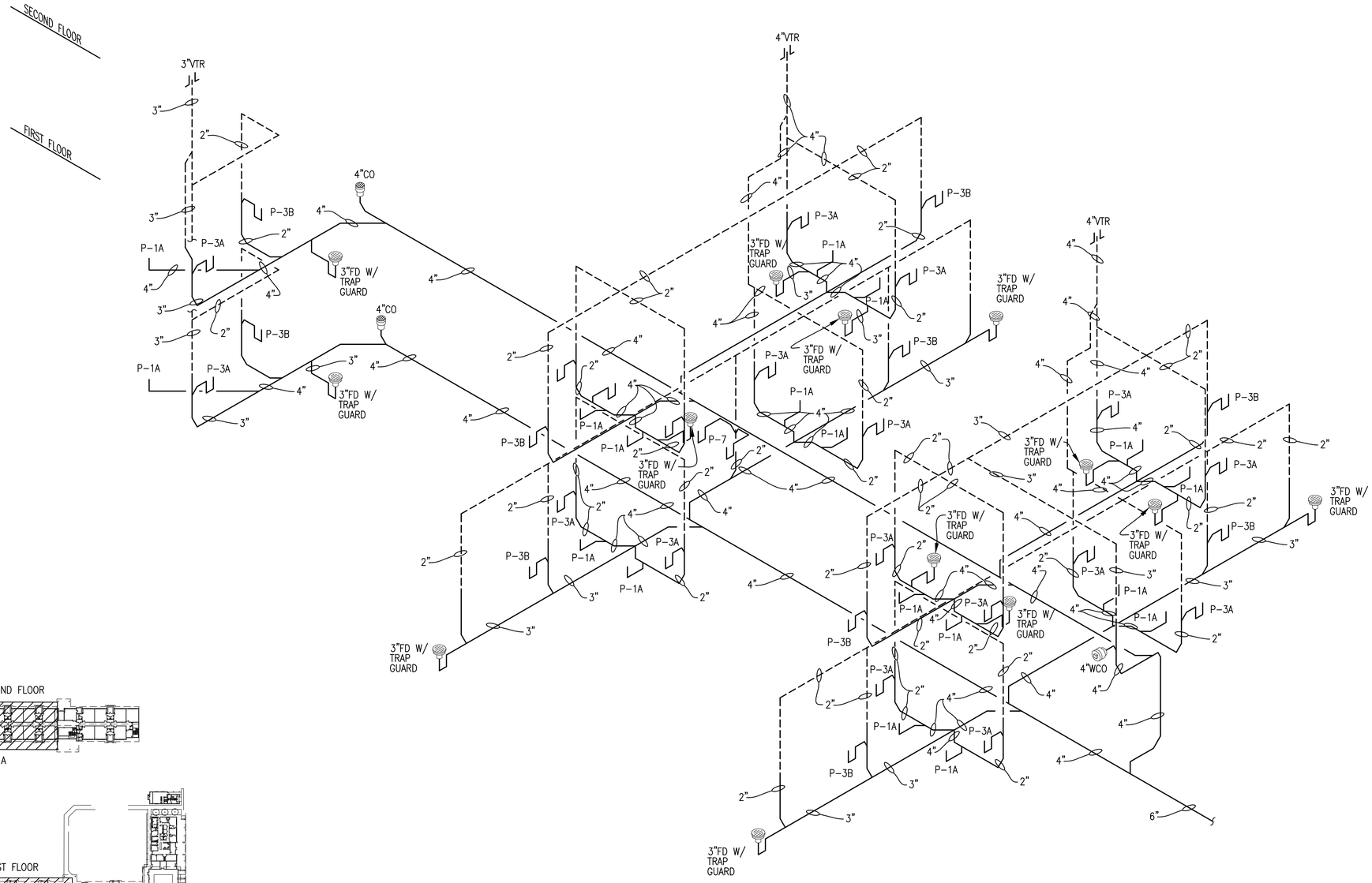
Drawing Title:

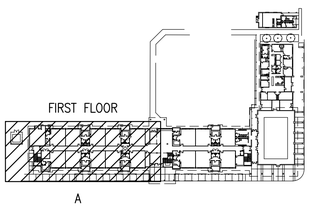
PARTIAL 2ND FLOOR PLUMBING PLAN - WATER - AREA B

Date: 10 October 2024

Designed By: CAJ
Drawn By: CAJ
Checked By: GDP

Drawing No.: P-112







WASTE AND VENT RISER DIAGRAM – 1ST AND 2ND FLOOR – AREA A

NOT TO SCALE

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Revision:

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Okaloosa County School District
Okaloosa County, Florida

Seal:

Project No.: 83X98735

Drawing Title:
WASTE AND VENT RISER DIAGRAM - 1ST AND 2ND FLOOR - AREA A

Date: 10 October 2024

Designed By: CAJ
Drawn By: CAJ
Checked By: GDP

Drawing No.: P-601

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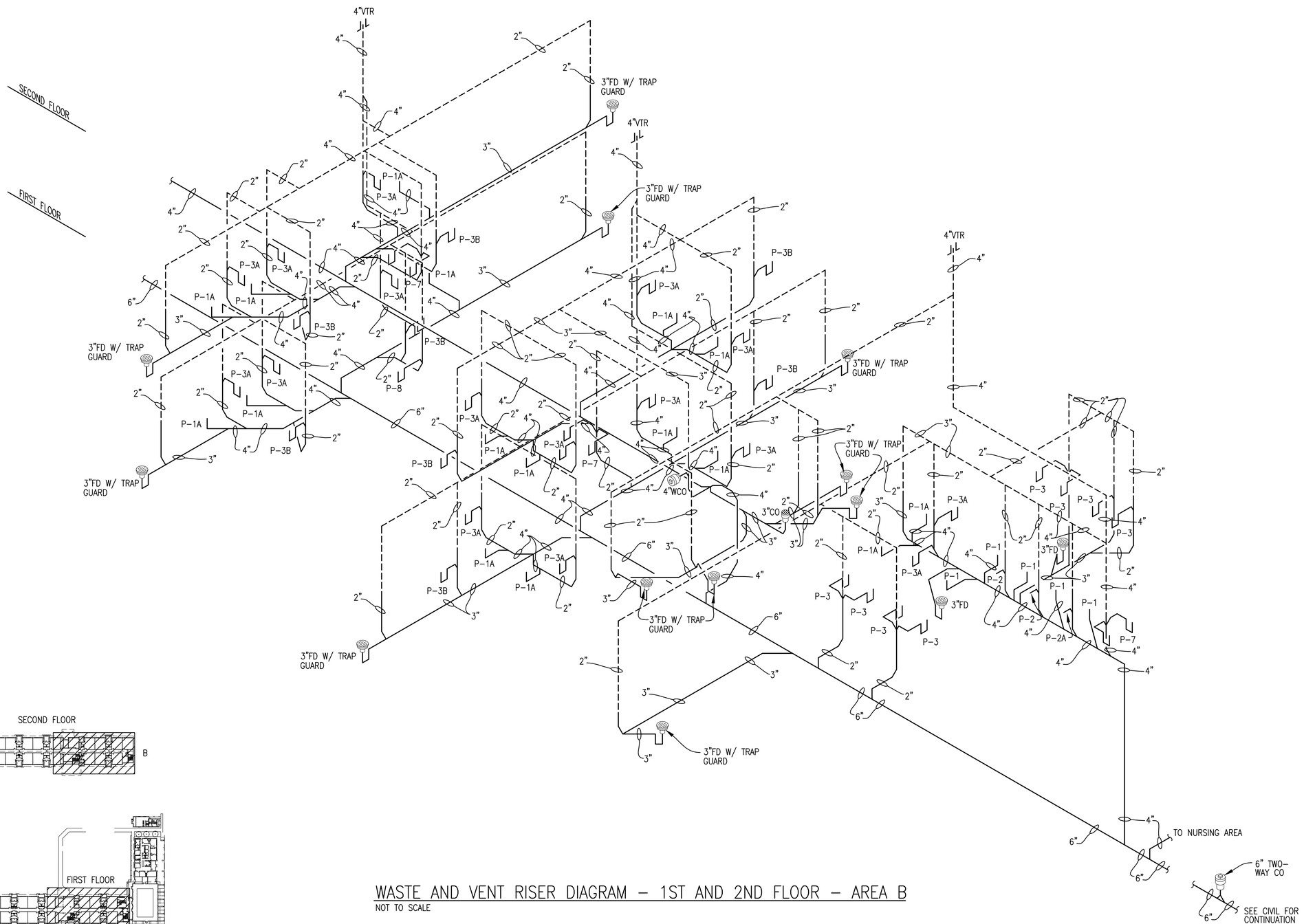

WASTE AND VENT RISER DIAGRAM – 1ST AND 2ND FLOOR – AREA B

NOT TO SCALE

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Revision:

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Okaloosa County, Florida

Seal:

Project No.: 83X988735

Drawing Title:
WASTE & VENT RISER DIAGRAM - 1ST AND 2ND FLOOR - AREA B

Date: 10 October 2024
Designed By: CAJ
Drawn By: CAJ
Checked By: GDP
Drawing No.: P-602

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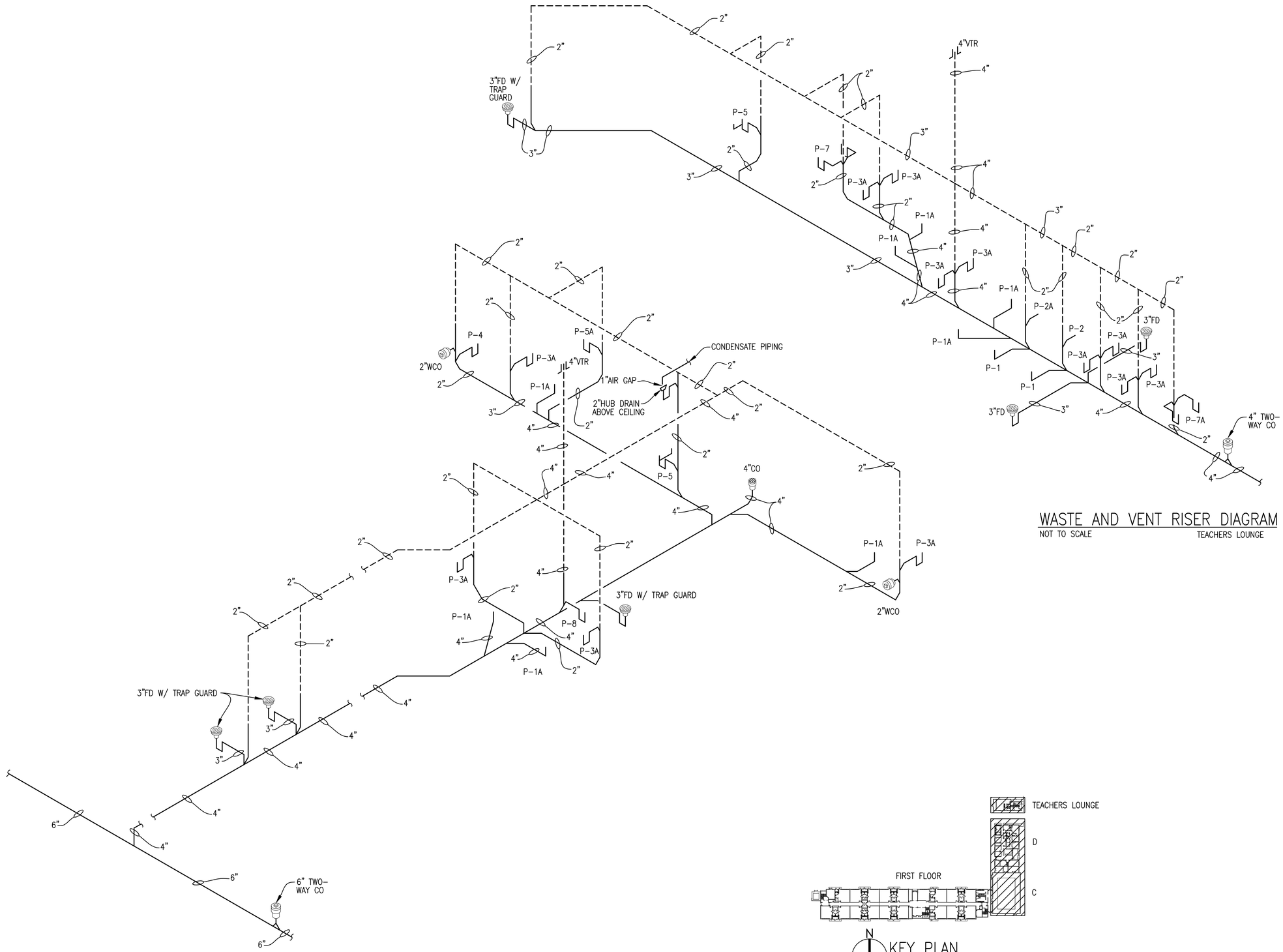

WASTE AND VENT RISER DIAGRAM – AREA C & D AND TEACHERS LOUNGE

NOT TO SCALE

WASTE AND VENT RISER DIAGRAM

NOT TO SCALE TEACHERS LOUNGE

KEY PLAN

NOT TO SCALE

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Okaloosa County, Florida

Seal:

Project No.: 85X028803

Drawing Title:
WASTE AND VENT RISER DIAGRAM - AREA C & D AND TEACHERS LOUNGE

Date: 10 October 2024

Designed By: CAJ
Drawn By: CAJ
Checked By: GDP

Drawing No.: P-603

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FIXTURE CONNECTION SCHEDULE – BASIS OF DESIGN

MARK	DESCRIPTION	WASTE	CW	HW	REMARKS
P-1	WATER CLOSET	4"	1"	--	FLOOR MOUNTED VIRTEOUS CHINA FLUSH VALVE TYPE AT 1.28 GPF
P-1A	WATER CLOSET (ADA)	4"	1"	--	FLOOR MOUNTED VIRTEOUS CHINA FLUSH VALVE TYPE FOR ADA AT 1.28 GPF
P-2	URINAL	4"	3/4"	--	WALL HUNG VIRTEOUS CHINA FLUSH VALVE TYPE AT .125 GPF
P-2A	URINAL (ADA)	4"	3/4"	--	WALL HUNG VIRTEOUS CHINA MOUNTED FOR ADA WITH FLUSH VALVE TYPE AT .125 GPF
P-3	LAVATORY	1-1/4"	1/2"	1/2"	INTEGRAL BOWL VITREOUS CHINA WITH TIMED PUSH BUTTON FAUCET AT 0.5 GPM
P-3A	LAVATORY (ADA)	1-1/4"	1/2"	1/2"	WALL HUNG VITREOUS CHINA WITH TIMED PUSH BUTTON FAUCET MOUNTED FOR ADA AT 0.5 GPM
P-3B	CLASSROOM SINK	1-1/2"	1/2"	1/2"	INTEGRAL BOWL WITH TIMED PUSH BUTTON GOOSENECK FAUCET AND DRINKING SPOUT
P-4	SHOWER (ADA)	2"	1/2"	1/2"	36"x36" TRANSFER WITH 24" SLIDE BAR AND HAND HELD SHOWER HEAD
P-5	BREAKROOM SINK	1-1/2"	1/2"	1/2"	TWO COMPARTMENT STAINLESS STEEL WITH GOOSENECK FAUCET, SPRAYER AND DISPOSAL
P-6	ICE MAKER VALVE BOX	--	1/2"	--	WALL RECESSED WITH "AA" WATER HAMMER ARRESTOR
P-7	WATER COOLER	1-1/4"	1/2"	--	WALL HUNG SPLIT LEVEL BUBBLER STYLE WITH BOTTLE FILLER
P-7A	WATER COOLER	1-1/4"	1/2"	--	WALL HUNG SPLIT LEVEL BUBBLER STYLE, OUTDOOR FREEZE PROOF WITH BOTTLE FILLER
P-8	MOP SINK	3"	1/2"	1/2"	FLOOR MOUNTED WITH RIM GUARD, MOP HANGER AND 3/4" HOSE CONNECTION
P-9	NURSING SINK	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT STAINLESS STEEL WITH GOOSENECK FAUCET
FD	FLOOR DRAIN	3"	--	--	PROVIDE WITH TRAP PRIMER UNLESS OTHERWISE NOTED
HB	HOSE BIBB	--	1/2"	--	PROVIDE WITH VACUUM BREAKER
WH	WALL HYDRANT	--	3/4"	--	FREEZE PROOF LOOSE KEY WITH VACUUM BREAKER

(ADA) DENOTES FIXTURES TO BE MANUFACTURED AND MOUNTED FOR AMERICANS WITH DISABILITIES ACT USE. INSULATE SUPPLIES AND P-TRAP.

ELECTRIC WATER HEATER SCHEDULE – BASIS OF DESIGN

MARK	STORAGE CAPACITY	NUMBER OF ELEMENTS	KW PER ELEMENT	TOTAL KW	ELECTRICAL			REMARKS
					VOLTS	PHASE	HZ	BASIS OF DESIGN:
EWH-1	80 GAL.	2	4.5	9	208	3	60	AO SMITH DEN-80
EWH-2	80 GAL.	2	4.5	9	208	3	60	AO SMITH DEN-80
EWH-3	50 GAL.	2	4.5	9	208	3	60	AO SMITH DEL-50
EWH-4	30 GAL.	2	2.5	5	208	3	60	AO SMITH DEL-30

EXPANSION TANK SCHEDULE – BASIS OF DESIGN

MARK	TYPE	MAX. VOLUME ACCEPTANCE	VOLUME	AIR CHARGE	MAX. WORKING PRESSURE	REMARKS BASIS OF DESIGN:
ET-1	VERTICAL	3.2 GAL	4.4 GAL	SYSTEM PRESSURE	150 PSI	AMTROL – ST-12
ET-2	VERTICAL	3.2 GAL	4.4 GAL	SYSTEM PRESSURE	150 PSI	AMTROL – ST-12
ET-3	VERTICAL	1.9 GAL	3.2 GAL	SYSTEM PRESSURE	150 PSI	AMTROL – ST-8
ET-4	VERTICAL	0.9 GAL	2.0 GAL	SYSTEM PRESSURE	150 PSI	AMTROL – ST-5

CIRCULATING PUMP SCHEDULE

NUMBER	RPM	HP	VOLTS	PHASE	Hz
CP-1,2,3,4	3250	1/25	115	1	60

BACKFLOW PREVENTER SCHEDULE

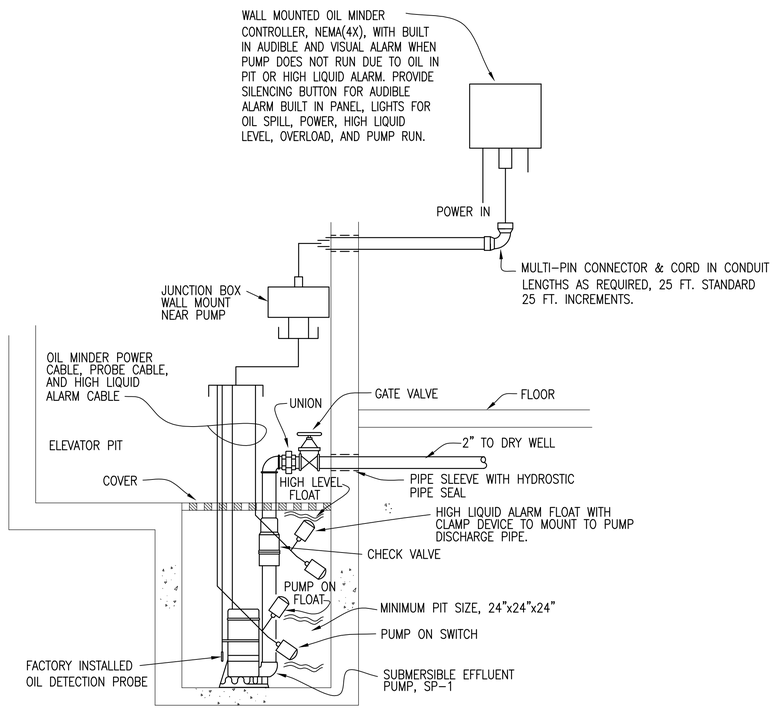
NUMBER	LINE SIZE, IN.	GPM	MAX. PRESSURE DROP	REMARKS: BASIS OF DESIGN
* BFP-1	4"	HOLD	10#	HORIZONTAL
* BFP-2	2"	HOLD	10#	HORIZONTAL

* REDUCED PRESSURE TYPE

SUMP PUMP SCHEDULE

MARK	SERVICE	TYPE	SIZE	PERFORMANCE DATA			ELECTRICAL DATA				REMARKS
				CAPACITY MAX GPM	MAX HEAD FT. (H_2O)	MAXIMUM SPEED – RPM	MAXIMUM MOTOR – H.P.	VOLTS	PHASE	HERTZ	
SP-1	ELEVATOR	SUMP	2"	64	22	3,600	0.4	115	1	60	–

NOTES:
PUMP SHALL BE UL508 AND 778 APPROVED.
PUMP TO BE PROVIDED WITH MECHANICAL SEAL.



SUMP PUMP DETAIL
NOT TO SCALE

LEGEND:

———————	SOIL OR WASTE PIPING
- - - - - - - - - - -	VENT PIPING
—— — —— — ——	COLD WATER PIPING
—— - - —— - - ——	HOT WATER PIPING
——— - - ——— - - ———	HOT WATER RETURN PIPING
EWH	ELECTRIC WATER HEATER
CO	CLEANOUT
FD	FLOOR DRAIN
VTR	VENT THRU ROOF
WH	WALL HYDRANT
HB	HOSE BIBB
CP	CIRCULATING PUMP
ET	EXPANSION TANK
SP	SUMP PUMP
WCO	WALL CLEANOUT
BFP	BACKFLOW PREVENTER
DN	DOWN

GENERAL NOTES

1. PENETRATIONS OF FIREWALLS, CEILINGS, FLOORS, ETC. OF PLUMBING PIPING SHALL BE UL APPROVED FIRESTOPS AND SHALL BE INSTALLED AS RECOMMENDED BY MANUFACTURER. THE CONTRACTOR SHALL HAVE MANUFACTURER SHOP DRAWINGS ON THE JOB SITE PERTAINING TO ALL PENETRATIONS.
2. THESE CONTRACT DRAWINGS SHOWN GENERAL SIZE AND APPROXIMATE LOCATION OF PLUMBING LINES AND ARE INTENDED TO SHOW THE GENERAL ARRANGEMENTS OF THE UTILITY CONNECTIONS FOR SIZE, LOCATION, DEPTH. INSTALL ALL SYSTEMS IN ACCORDANCE WITH THOSE CONDITIONS FOUND PRIOR TO BEGINNING INSTALLATION. ANY PART OF PLUMBING SYSTEM INSTALLED INCORRECTLY DUE TO NOT VERIFYING SAME SHALL BE REMOVED AND CORRECTLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
3. ALL DOMESTIC WATER PIPING SHALL BE LOCATED ABOVE CEILING UNLESS NOTED OTHERWISE.
4. THE PLUMBING PIPING SYSTEM SHALL BE FLUSHED TILL CLEAN BEFORE EQUIPMENT OR FIXTURE IS CONNECTED.
5. THE CONTRACTOR SHALL NOT CUT ANY STRUCTURAL MEMBERS OF BUILDING WITHOUT PRIOR CONSENT OF THE ARCHITECT.
6. COORDINATE PLUMBING PIPING WITH HVAC DUCTWORK, ROUTE PIPING TO ACCOMMODATE MECHANICAL SYSTEM.
7. THE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE LATEST EDITION.
8. FLOOR DRAINS WITH TRAP GUARDS TO BE FILLED TO THE RIM OF THE P-TRAP EVERY 30 DAYS.

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PEI 23110

Revision:

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Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

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Seal:

GREGORY DAMON LEE PETERSON LICENSE No. 34188 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:

PLUMBING SCHEDULES, GENERAL NOTES, LEGEND AND DETAIL

Date: 10 October 2024

Designed By: CAJ
Drawn By: CAJ
Checked By: GDP

Drawing No.: P-604

HVAC GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES. INSTALLING CONTRACTOR SHALL COMPLY THE IMC, SMACNA, ASHRAE 62.1, ASHRAE 90.1, AND NFPA 90A.
2. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
3. INSTALL ALL MECHANICAL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
4. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK.
5. COORDINATE EQUIPMENT CLEARANCES (AS RECOMMENDED BY MANUFACTURER) WITH ALL DISCIPLINES BEFORE INSTALLATION.
6. COORDINATE AND PROVIDE ALL DUCTS AND PIPING TRANSITION REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT, VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
7. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS REQUIRED TO PROVIDE A VIBRATION–FREE INSTALLATION.
8. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.
9. AVOID ROUTING DUCTWORK AND MECHANICAL EQUIPMENT OVER LIGHTS WHEREVER POSSIBLE. MAINTAIN MINIMUM 6" CLEARANCE BETWEEN MECHANICAL EQUIPMENT AND DUCT INSULATION TO TOP OF LIGHTS. PROVIDE CLEARANCE AND ACCESS ALL AROUND AND BELOW MECHANICAL EQUIPMENT AS REQUIRED FOR ROUTINE MAINTENANCE.
10. SEAL ALL DUCT PENETRATIONS OF WALLS AIRTIGHT, REGARDLESS OF WHETHER WALLS ARE FIRE RATED OR NOT.
11. ALL NEW SUPPLY AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED.
12. ALL NEW RETURN AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1"W.G., SEAL CLASS A, EXTERNALLY INSULATED.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	FT	FEET
AD	AUTOMATIC DAMPER	IN	INCH
CFM	CUBIC FEET PER MINUTE	MAX	MAXIMUM
CD	CONDENSATE DRAIN PIPING	MPS	MEDIUM PRESSURE STEAM
CP	CONTROL PANEL	MIN	MINIMUM
DEMO	DEMOLISH	MISC	MISCELLANEOUS
DIA	DIAMETER	MVD	MANUAL VOLUME DAMPER
DN	DOWN	N/A	NOT APPLICABLE
DWG	DRAWING	NTS	NOT TO SCALE
EA	EACH	OA	OUTDOOR AIR
ENT	ENTERING	RA	RETURN AIR
EF	EXHAUST FAN	RM	ROOM
EX	EXISTING	SQ.FT.	SQUARE FEET
FLR	FLOOR	T'STAT	THERMOSTAT
FLRDR	FLOOR DRAIN	TYP	TYPICAL
FPM	FEET PER MINUTE		

HVAC LEGEND

- HIDDEN
- ITEMS TO BE DEMOLISHED
- MD — MANUAL VOLUME DAMPER PROVIDE WITH LOCKING QUADRANT
- TRANSITION
- SQUARE THROAT ELBOW IN RECTANGULAR DUCT WITH DOUBLE WALL TURNING VANES.
- POINT OF CONNECTION
- POINT OF DEMOLITION
- ROUND BRANCH DUCT TAKEOFF FROM RECTANGULAR DUCT MAIN. BRANCH DUCT SHALL BE FLEXIBLE ROUND DUCT OR ROUND SNAPLOCK DUCT AS INDICATED. ROUND DUCT TAP IN SHALL BE MADE WITH SPIN–IN COLLAR WITH MANUAL VOLUME DAMPER.
- 8"ø — ROUND SNAPLOCK GALVANIZED STEEL DUCTWORK, EXTERNALLY INSULATED, SMACNA STATIC PRESSURE CONSTRUCTION CLASS 1/2" w.g., SEAL CLASS C. SIZE SHOWN IS SHEET METAL DIAMETER.
- FACTORY FABRICATED/INSULATED FLEXIBLE ROUND DUCT, SIZE SHOWN IS INSIDE DIAMETER.
- PARALLEL FLOW BRANCH IN RECTANGULAR DUCT MAIN WITH MANUAL VOLUME DAMPER IN EACH BRANCH DUCT.
- RECTANGULAR DUCTWORK TURNING 90° UP.
- RECTANGULAR DUCTWORK TURNING 90° DOWN.
- DUCT SECTION, POSITIVE PRESSURE, FIRST FIGURE IS TOP
- DUCT SECTION, NEGATIVE PRESSURE
- WxH — RECTANGULAR DUCTWORK, SIZES SHOWN ARE INTERNAL CLEAR DIMENSIONS. (WIDTH x HEIGHT) FIRST FIGURE IS SIDE SHOWN.

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Seal:

GREGORY DAMON HOLLAND — LICENSED — No. 34180 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

Project No.: 8RX9873F

Drawing Title:

GENERAL MECHANICAL NOTES, LEGEND AND ABBREVIATIONS

Date: 10 October 2024

Designed By: BTW
Drawn By: JSV
Checked By: GDP

Drawing No.: M-001

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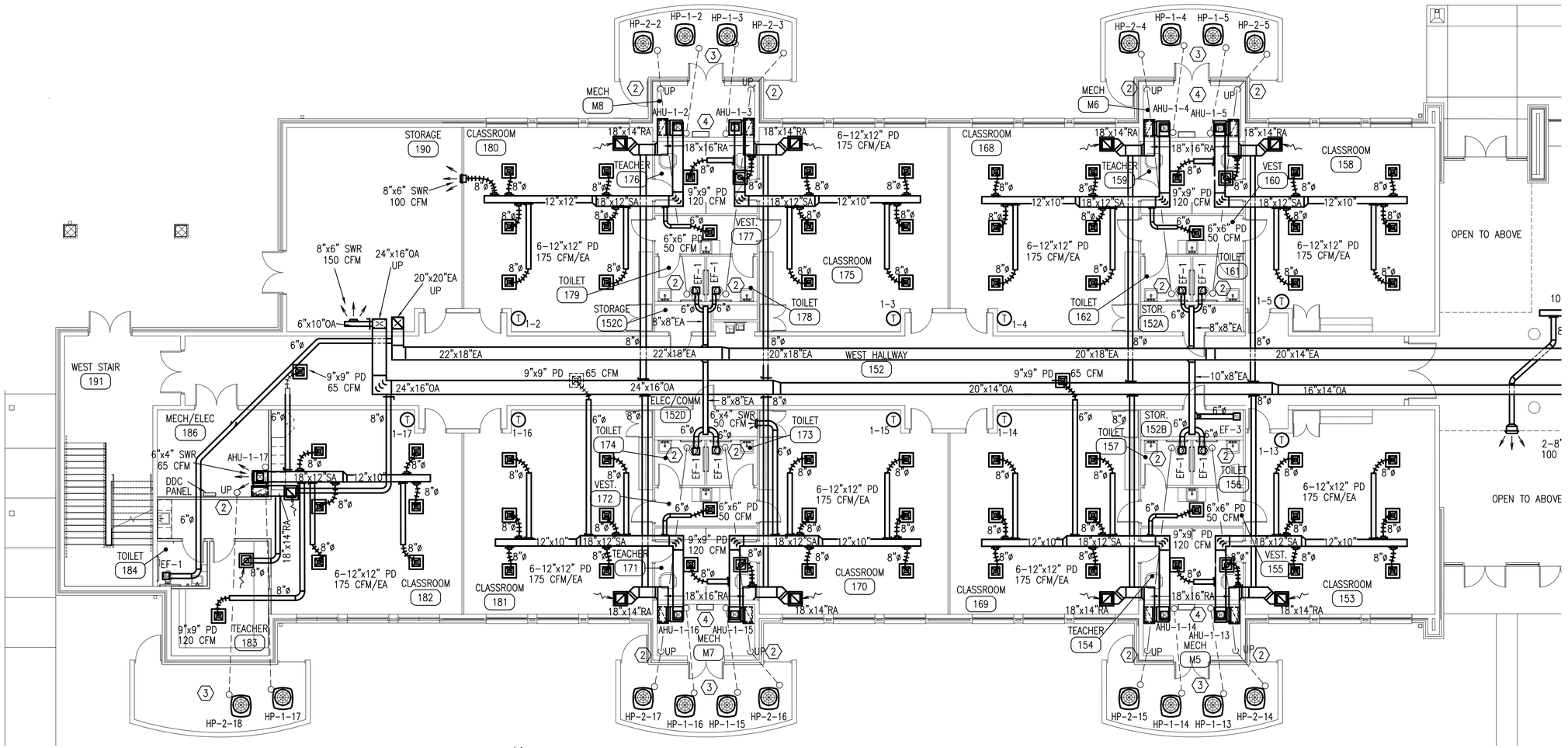

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PARTIAL FIRST FLOOR MECHANICAL NEW WORK PLAN – AREA A

SCALE: 1/8" = 1'-0"

SHEET NOTES

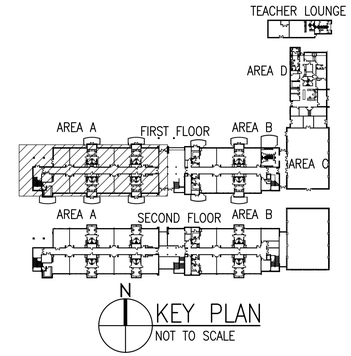
ADJUST ROUTING OF DUCT AS NEEDED TO FIT EXISTING CONDITIONS.

DUCT DRAWN ON PLANS IS FOR INFORMATION AND/OR SCHEMATIC PURPOSES ONLY. ACTUAL DUCT PLACEMENT AND ROUTING WILL BE DICTATED BY CONDITIONS IN THE FIELD.

GREAT CARE HAS BEEN TAKEN TO PROVIDE THE BEST AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE TO VERIFY CONDITIONS IN THE FIELD AND PROVIDE A COMPLETE, WORKING SYSTEM TO FIT EXISTING FIELD CONDITIONS.

NOTES

1. – ROUTE CONDENSATE FROM AHUs TO FLOOR DRAIN IN MECHANICAL ROOM (TYPICAL). COORDINATE LOCATION WITH ROOM EQUIPMENT LAYOUT.
2. – ROUTE REFRIGERANT LINES UP ABOVE FIRST FLOOR CEILING OVER TO AND UP INTO SECOND FLOOR MECHANICAL ROOM.
3. – LOCATE FRAGRANT LINE CONDUIT AND ROTATE CONDENSING UNIT SO THAT THERE IS A MINIMUM OF EXPOSED LINE TO THE ELEMENTS AND PREVENT A TRIP HAZARD.
4. – TYPICAL, ALL EXTERIOR AHU MECHANICAL ROOMS, PROVIDE ONE 6"x4"SWR SUPPLY DIFFUSER IN EACH MECH. ROOM FOR VENTILATION AND HUMIDITY CONTROL FROM ONE OF THE AHUs IN THAT ROOM.



1/8"= 1'- 0"

5' 0 5' 15'

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
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PETERSON ENGINEERING INC.
(PROF. ENG. #: 3600)
75 SOUTH "F" STREET
PENSACOLA, FLORIDA 32502
(850) 434-0513
PEI 23110

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:



Project No.: 83X98735

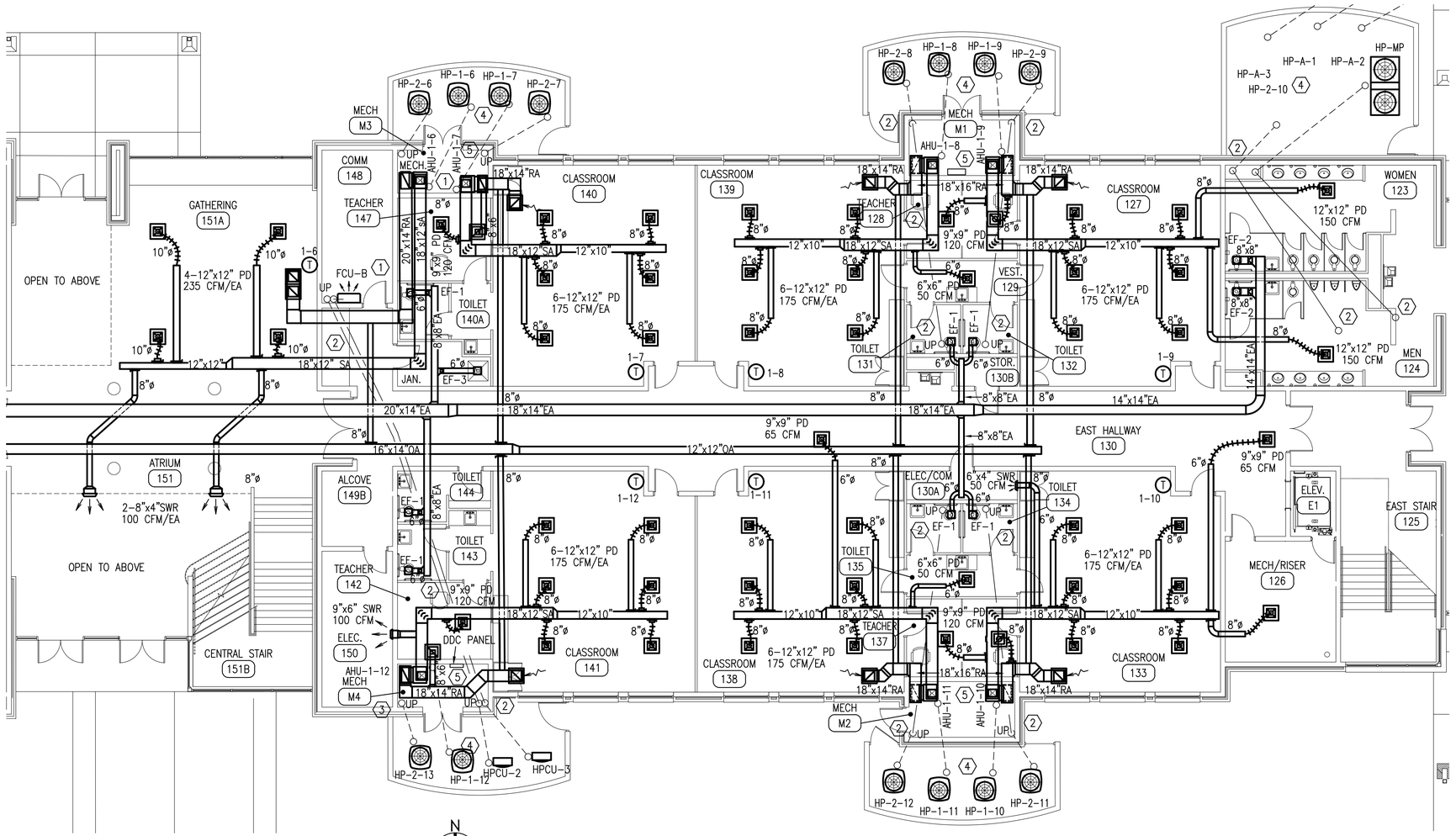
Drawing Title:

PARTIAL FIRST FLOOR MECHANICAL NEW WORK PLAN - AREA A

Date: 10 October 2024

Designed By: BTW
Drawn By: JSV
Checked By: GDP

Drawing No.: M-101



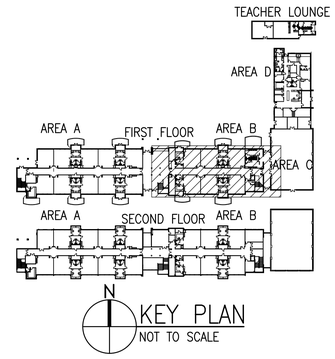
N

PARTIAL FIRST FLOOR MECHANICAL NEW WORK PLAN – AREA B

SCALE: 1/8" = 1'-0"

NOTES

1. – ROUTE CONDENSATE FROM FCU–B TO FLOOR DRAIN IN MECHANICAL ROOM M3 (AHU–1–6/7). PROVIDE PUMP WITH FCU. MOUNT FCU 6" FROM CEILING. COORDINATE LOCATION WITH ROOM EQUIPMENT LAYOUT.
2. – ROUTE REFRIGERANT LINES UP ABOVE FIRST FLOOR CEILING OVER TO AND UP INTO SECOND FLOOR MECHANICAL ROOM.
3. – FRIGERANT LINE UP TO THE SECOND FLOOR MECHANICAL ROOM.
4. – LOCATE FRAGRANT LINE CONDUIT AND ROTATE CONDENSING UNIT SO THAT THERE IS A MINIMUM OF EXPOSED LINE TO THE ELEMENTS AND PREVENT A TRIP HAZARD.
5. – TYPICAL ALL EXTERIOR AHU MECHANICAL ROOMS, PROVIDE ONE 6"x4"SWR SUPPLY DIFFUSER IN EACH MECH. ROOM FOR VENTILATION AND HUMIDITY CONTROL FROM ONE OF THE AHUs IN THAT ROOM.



N

KEY PLAN

NOT TO SCALE

5' 0 5' 15'

1/8"= 1'- 0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

SHEET NOTES

ADJUST ROUTING OF DUCT AS NEEDED TO FIT EXISTING CONDITIONS.

DUCT DRAWN ON PLANS IS FOR INFORMATION AND/OR SCHEMATIC PURPOSES ONLY. ACTUAL DUCT PLACEMENT AND ROUTING WILL BE DICTATED BY CONDITIONS IN THE FIELD.

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PENSACOLA, FLORIDA 32502
(850) 434–0513
PEI 23110

Revision:

Date:	By:	Description:

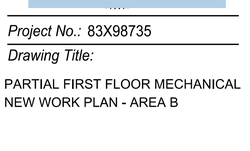
DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:



Project No.: 83X98735

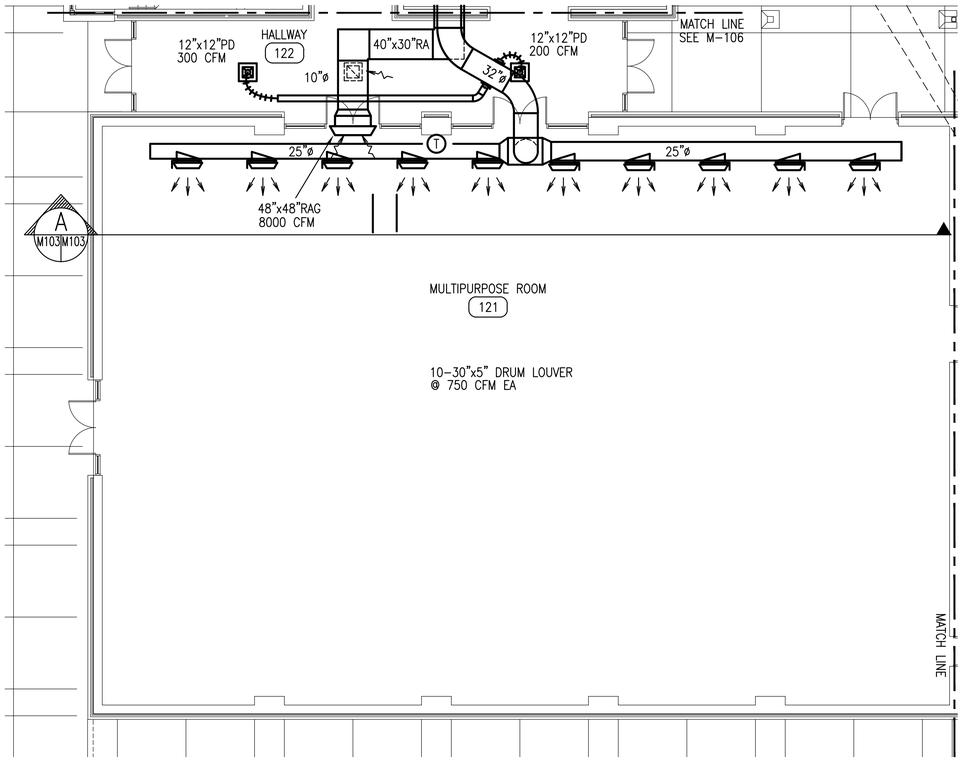
Drawing Title:

PARTIAL FIRST FLOOR MECHANICAL NEW WORK PLAN - AREA B

Date: 10 October 2024

Designed By: BTW
Drawn By: JSV
Checked By: GDP

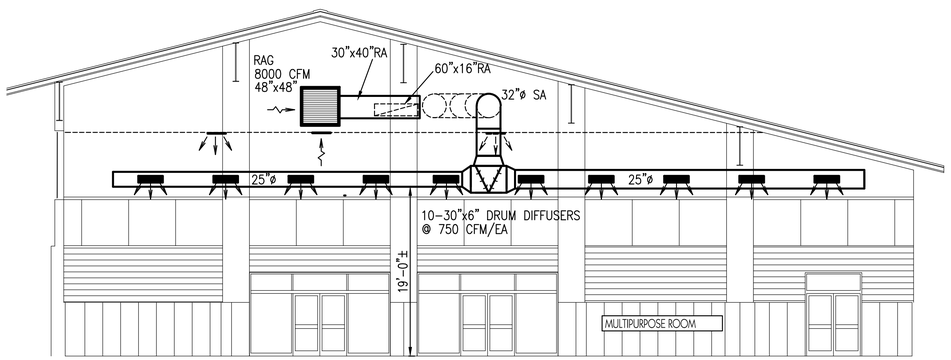
Drawing No.: M-102



N

PARTIAL FIRST FLOOR MECHANICAL NEW WORK PLAN – AREA C

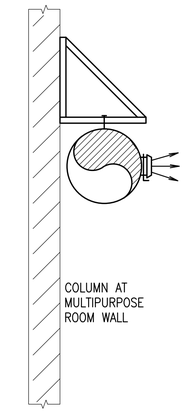
SCALE: 1/8" = 1'-0"



MULTIPURPOSE ROOM SECTION A

SCALE: 1/8" = 1'-0"

M103|M103



DUCT SUPPORT AT COLUMNS

NO SCALE

SHEET NOTES

ADJUST ROUTING OF DUCT AS NEEDED TO FIT EXISTING CONDITIONS.

DUCT DRAWN ON PLANS IS FOR INFORMATION AND/OR SCHEMATIC PURPOSES ONLY. ACTUAL DUCT PLACEMENT AND ROUTING WILL BE DICTATED BY CONDITIONS IN THE FIELD.

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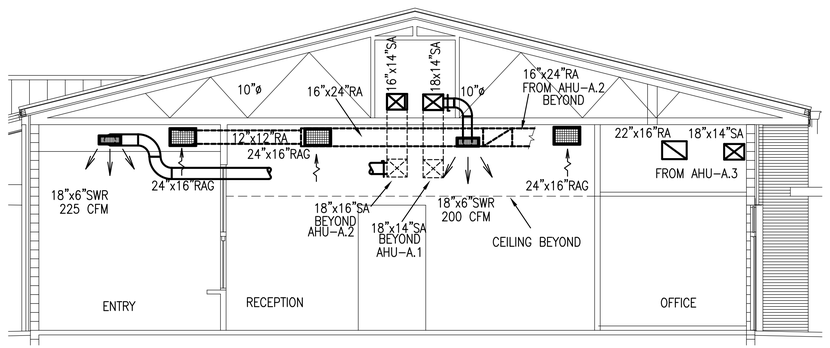
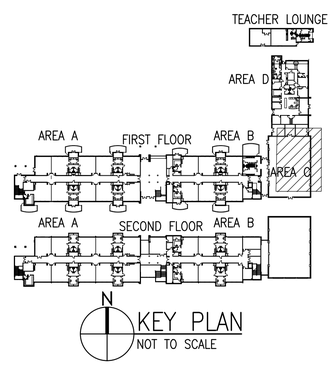


ADMIN WING ENTRANCE SECTION C

SCALE: 3/16" = 1'-0"

M104|M103



KEY PLAN

NOT TO SCALE

5' 0 5' 15'

1/8"= 1'- 0"

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

Jacobs | TITAN TECHNOLOGIES

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PENSACOLA, FLORIDA 32502
(850) 434-0513
PEI 23110

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal:

Project No.: 83X98735

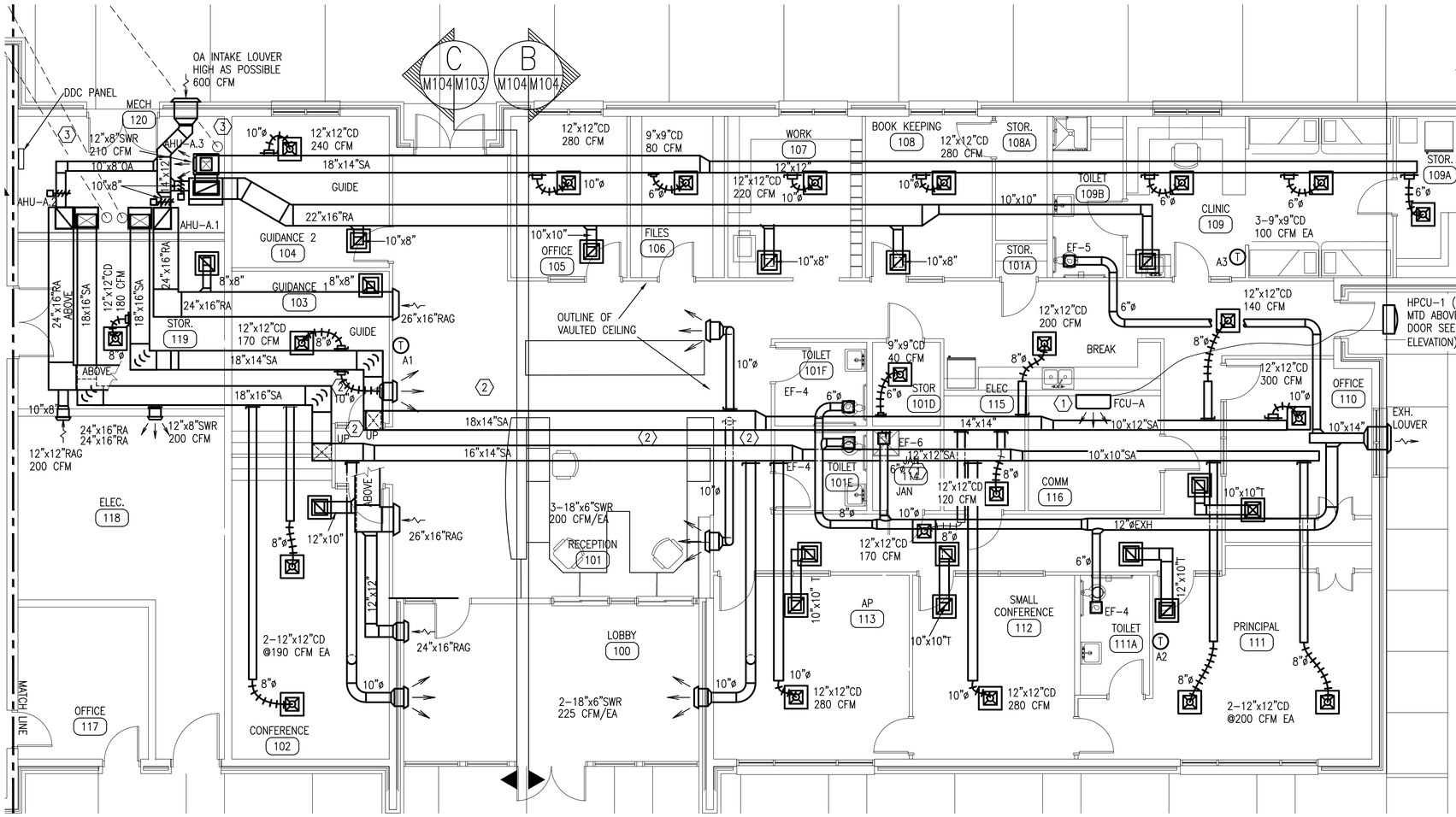
Drawing Title:

PARTIAL FIRST FLOOR MECHANICAL NEW WORK PLAN - AREA C

Date: 10 October 2024

Designed By: BTW
Drawn By: JSV
Checked By: GDP

Drawing No.: M-103



ADMIN WING FIRST FLOOR MECHANCIAL NEW WORK PLAN – AREA D

SCALE: 3/16" = 1'-0"

SHEET NOTES

ADJUST ROUTING OF DUCT AS NEEDED TO FIT EXISTING CONDITIONS.

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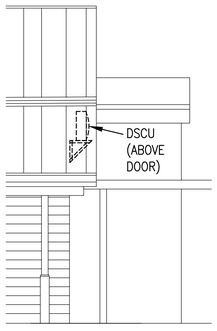
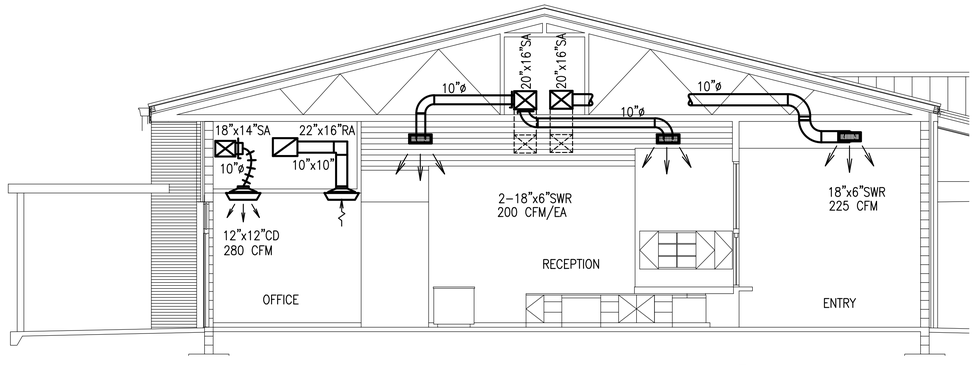
1. ROUTE CONDENSATE FROM FCU-A TO MOP SINK IN JANITOE CLOSET. PROVIDE PUMP WITH FCU. MOUNT FCU 6" FROM CEILING. COORDINATE LOCATION WITH ROOM EQUIPMENT LAYOUT. ROUTE REFRIGERANT LINES ABOVE CEILING OUT TO HPCU-1 ON EXTERIOR WALL. PROVIDE ELECTRICAL DISCONNECT FOR FCU-A INSIDE THE COMM ROOM.
2. ROUTE SUPPLY DUCT UP AND OVER VAULTED CEILING IN RECEPTION AREAS.
3. ROUTE REFRIGERANT LINES IN UNDERGROUND CONDUITS OUT TO CONDENSING UNITS.





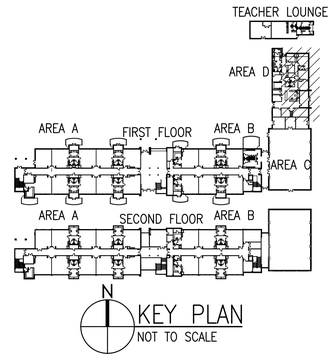
ADMIN WING ELEVATION C (M104/M104)

SCALE: 3/16" = 1'-0"



ADMIN WING ENTRANCE SECTION B (M104/M104)

SCALE: 3/16" = 1'-0"



KEY PLAN
NOT TO SCALE

3/16"= 1'-0"

5' 0 5' 10'

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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PENSACOLA, FLORIDA 32502
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Revision:

Date:	By:	Description:

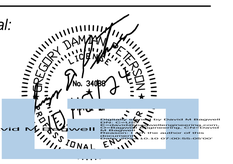
DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:



Project No.: 83X98735

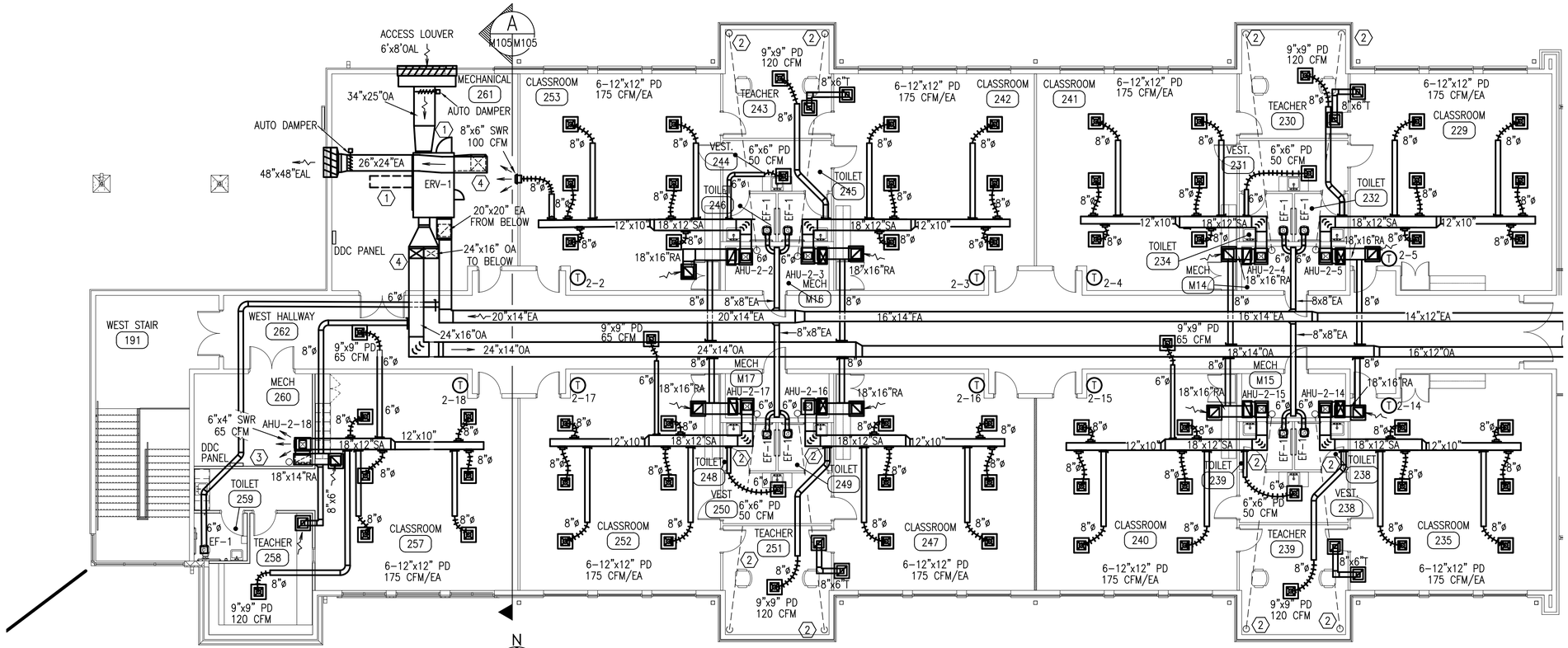
Drawing Title:

PARTIAL FIRST FLOOR MECHANICAL NEW WORK PLAN - AREA D

Date: 10 October 2024

Designed By: BTW
Drawn By: JSV
Checked By: GDP

Drawing No.: M-104



N

%UPARTIAL SECOND FLOOR MECHANCIAL NEW WORK PLAN – AREA A

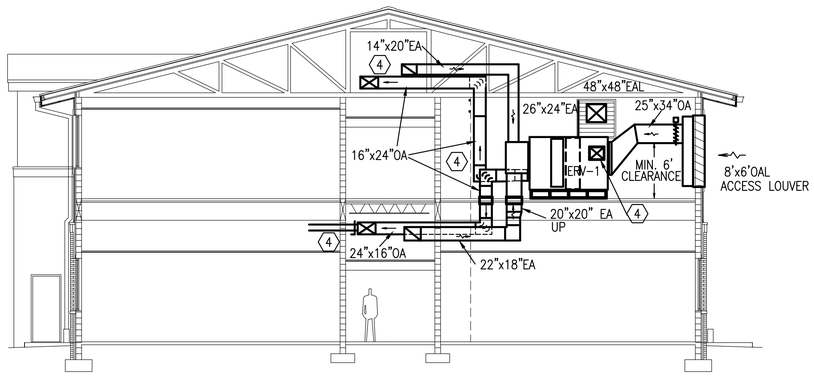
SCALE: 1/8" = 1'-0"

SHEET NOTES

ADJUST ROUTING OF DUCT AS NEEDED TO FIT EXISTING CONDITIONS.

DUCT DRAWN ON PLANS IS FOR INFORMATION AND/OR SCHEMATIC PURPOSES ONLY. ACTUAL DUCT PLACEMENT AND ROUTING WILL BE DICTATED BY CONDITIONS IN THE FIELD.

GREAT CARE HAS BEEN TAKEN TO PROVIDE THE BEST AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE TO VERIFY CONDITIONS IN THE FIELD AND PROVIDE A COMPLETE, WORKING SYSTEM TO FIT EXISTING FIELD CONDITIONS.



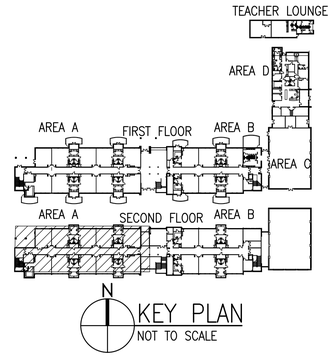
MECHANICAL ROOM SECTION

A
M105 M105

SCALE: 1/8""=1'-0"

NOTES

1. – PROVIDE ACCESS AROUND ERV UNIT FOR WHEEL ACCESS, REMOVAL AND MAINTENANCE. INDICATE ON FILTER ACCESS DOORS SIZE AND QUANTITY OF FILTERS. ROUTE DUCT FROM UNIT HIGH AS POSSIBLE IN MECHANICAL ROOM. PROVIDE 12" HIGH STRUCTURAL EQUIPMENT PLATFORM FOR THE ERV
2. – ROUTE REFRIGERANT LINES UP ABOVE FIRST FLOOR CEILING OVER TO AND UP INTO SECOND FLOOR MECHANICAL ROOM.
3. – REFRIGERANT LINE UP FROM THE FIRST FLOOR MECHANICAL ROOM.
4. – PROVIDE TURNING VANES IN ALL DUCT ELBOWS WITH POSITIVE PRESSURE.



N

KEY PLAN

NOT TO SCALE

1/8"= 1'- 0"

5' 0 5' 15'

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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PENSACOLA, FLORIDA 32502
(850) 434-0513
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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

Seal:

Project No.: 83X98735

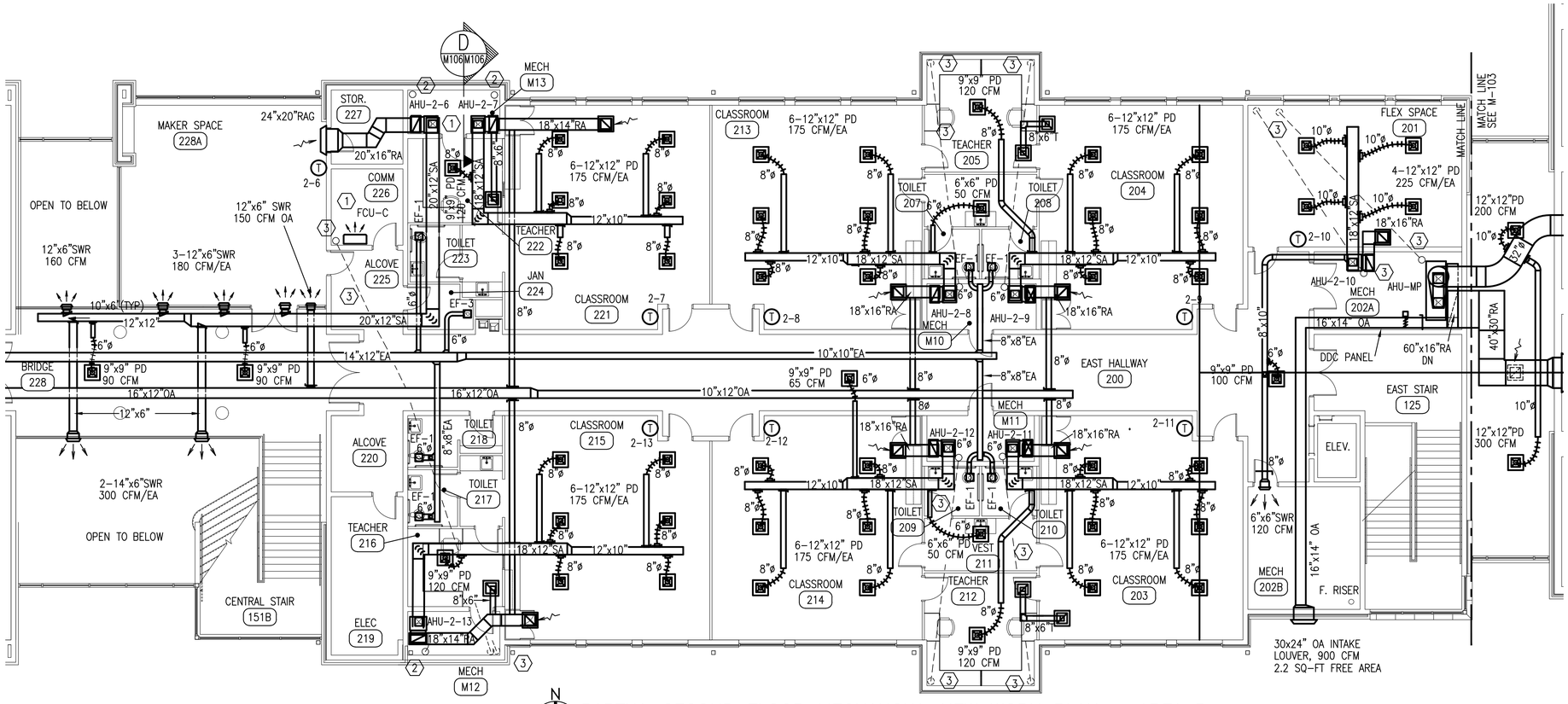
Drawing Title:

PARTIAL SECOND FLOOR MECHANICAL NEW WORK PLAN - AREA A

Date: 10 October 2024

Designed By: BTW
Drawn By: JSV
Checked By: GDP

Drawing No.: M-105



N

PARTIAL SECOND FLOOR MECHANICAL NEW WORK PLAN – AREA B

SCALE: 1/8" = 1'–0"

NOTES

1. – ROUTE CONDENSATE FROM FCU–C TO FLOOR DRAIN IN MECHANICAL ROOM M13 (AHU 2–6/7). PROVIDE PUMP WITH FCU. MOUNT FCU 6" FROM CEILING. COORDINATE LOCATION WITH ROOM EQUIPMENT LAYOUT. ROUTE REFRIGERANT LINES IN THE CEILING OF THE FIRST FLOOR OUT TO CONDENSING UNIT.
2. – REFRIGERANT LINE UP FROM THE FIRST FLOOR MECHANICAL ROOM..
3. – REFRIGERANT LINES ROUTED IN THE CEILING OF THE FIRST FLOOR AND UP INTO THE SECOND FLOOR MECHANICAL ROOM.

SHEET NOTES

ADJUST ROUTING OF DUCT AS NEEDED TO FIT EXISTING CONDITIONS.

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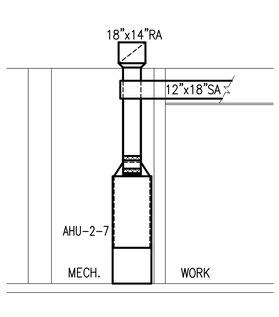
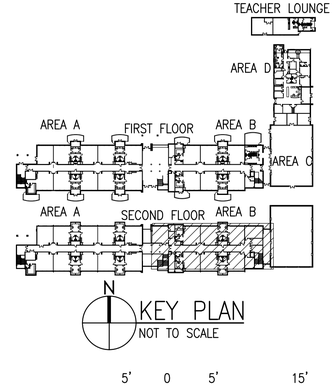


MECHANICAL ROOM SECTION D M106|M106

SCALE: 1/4" = 1'–0" SECOND FLOOR



N

KEY PLAN

NOT TO SCALE

1/8"= 1'– 0"

5' 0 5' 15'

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

Seal:

Project No.: 83X98735

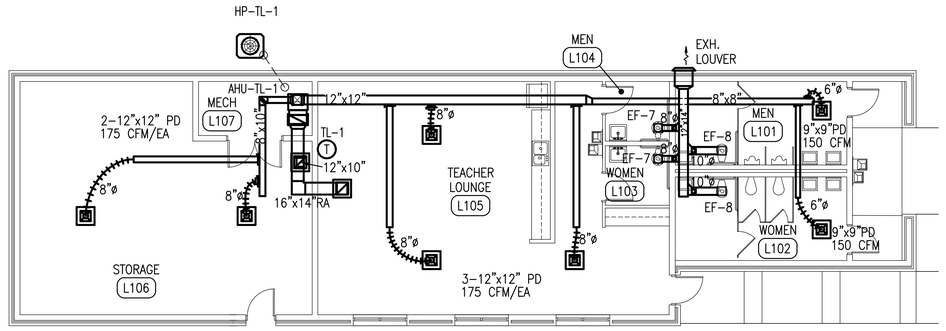
Drawing Title:

PARTIAL SECOND FLOOR MECHANICAL NEW WORK PLAN - AREA B

Date: 10 October 2024

Designed By: BTW
Drawn By: JSV
Checked By: GDP

Drawing No.: M-106



N

MECHANICAL NEW WORK PLAN – TEACHER LOUNGE/STORAGE/RESTROOMS BLDG

SCALE: 1/8" = 1'-0"

SHEET NOTES

ADJUST ROUTING OF DUCT AS NEEDED TO FIT EXISTING CONDITIONS.

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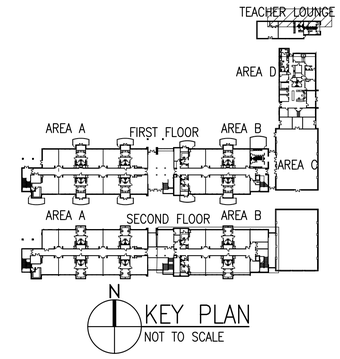

N

KEY PLAN

NOT TO SCALE

1/8"= 1'- 0"

5' 0 5' 15'

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

Jacobs | TITAN TECHNOLOGIES

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(PROF. ENG. #: 3600)
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PEI 23110

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY • SCHOOL DISTRICT •

Seal:



Project No.: 83X98735

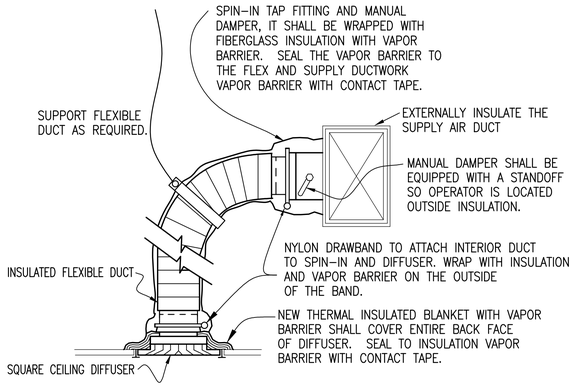
Drawing Title:

MECHANICAL NEW WORK PLAN - TEACHER LOUNGE/ STORAGE/RESTROOM BLDG

Date: 10 October 2024

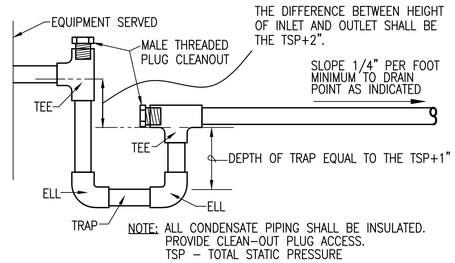
Designed By: BTW
Drawn By: JSV
Checked By: GDP

Drawing No.: M-107



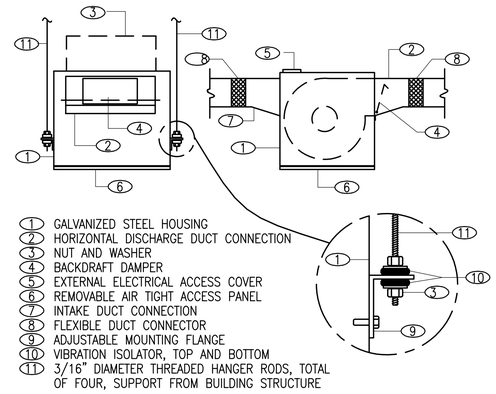
PANEL DIFFUSER DETAIL

NOT TO SCALE



TYPICAL CONDENSATE DRAIN DETAIL DRAW THROUGH UNIT

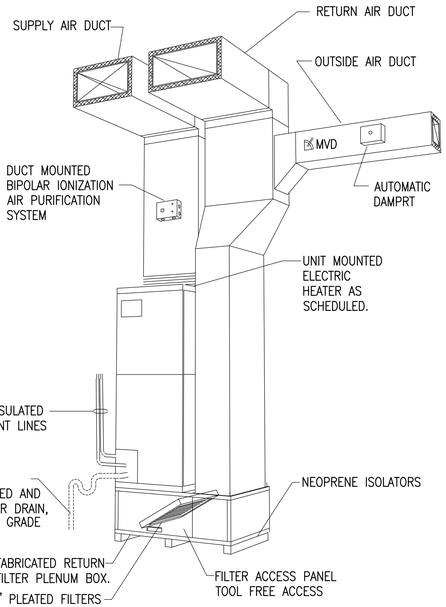
NOT TO SCALE



CABINET EXHAUST FAN DETAIL

NOT TO SCALE

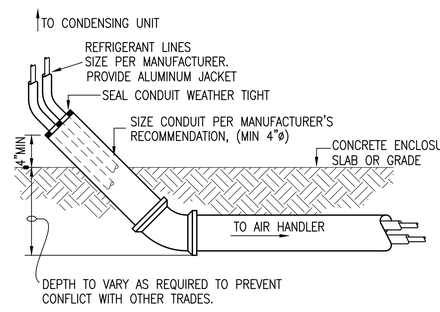
MD 236



NOTES:
- SECURE REFRIGERANT LINES AND CONDENSATE PIPING WITH UNISTRUT.
- SIZE CONDENSATE LINE AT FULL SIZE OF UNIT CONNECTION
- FACTORY FABRICATED RETURN TO BE McDANIEL METALS OR EQUAL, LABOR SAVOR MODEL # .

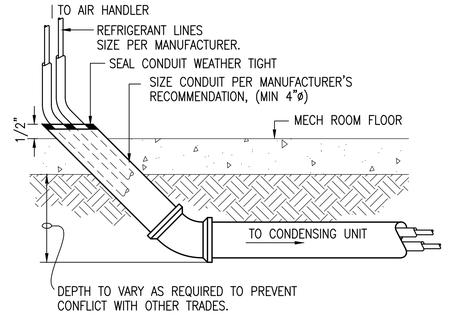
TYPICAL VERTICAL UPFLOW AHU DETAIL

NOT TO SCALE



EXTERIOR REFRIGERANT LINE AND CONDUIT PENETRATION DETAIL

NOT TO SCALE

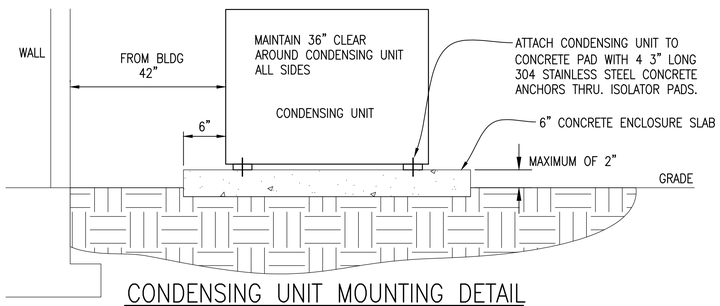


INTERIOR REFRIGERANT LINE AND CONDUIT PENETRATION DETAIL

NOT TO SCALE

TYPICAL REFRIGERANT PIPING DIAGRAM

NOT TO SCALE



CONDENSING UNIT MOUNTING DETAIL

NOT TO SCALE

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal:



Project No.: 83X93535

Drawing Title:

MECHANICAL DETAILS

Date: 10 October 2024

Designed By: BTW
Drawn By: JSV
Checked By: GDP

Drawing No.: M-501

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HEAT PUMP – AIR HANDLING UNIT SCHEDULE

MARK	AIR DATA			COOLING DESIGN CONDITIONS			HEATING DESIGN CONDITIONS			ELECTRICAL									FILTER DATA		BASIS OF DESIGN TRANE MODEL #	REMARKS
	TOTAL AIR CFM/NOM	OUTSIDE AIR CFM	E.S.P. IN H_2O	TOTAL MBTU/HR	SENSABLE MBTU/HR	COIL ENT. DB/WB °F	TOTAL MBTU/HR	AMBIENT °F	AUX. ELEC. HEAT TOTAL	VOLTS	PHASE	Hz	BLOWER HP	MCA	MOP	MIN. SEER (1)	MIN. COP (2)	MIN. HSPF	TYPE	SIZE		
AHU-1.1	NOT USED																					
AHU-1.2	1150	150	.50"	32.6	22.5	80.1/69.6	19.4	42	3.6 KW	208	1	60	1/3	25	25	–	--	--	2"	T'AWAY	TEM4A0C37	
AHU-1.3	1150	150	.50"	32.6	22.5	80.1/69.6	19.4	42	3.6 KW	208	1	60	1/3	25	25	–	--	--	2"	T'AWAY	TEM4A0C37	
AHU-1.4	1150	150	.50"	32.6	22.5	80.1/69.6	19.4	42	3.6 KW	208	1	60	1/3	25	25	–	--	--	2"	T'AWAY	TEM4A0C37	
AHU-1.5	1150	150	.50"	32.6	22.5	80.1/69.6	19.4	42	3.6 KW	208	1	60	1/3	25	25	–	--	--	2"	T'AWAY	TEM4A0C37	
AHU-1.6	1150	150	.50"	32.6	22.5	80.1/69.6	19.4	42	3.6 KW	208	1	60	1/3	25	25	–	--	--	2"	T'AWAY	TEM4A0C37	
AHU-1.7	1150	150	.50"	32.6	22.5	80.1/69.6	19.4	42	3.6 KW	208	1	60	1/3	25	25	–	--	--	2"	T'AWAY	TEM4A0C37	
AHU-1.8	1150	150	.50"	32.6	22.5	80.1/69.6	19.4	42	3.6 KW	208	1	60	1/3	25	25	–	--	--	2"	T'AWAY	TEM4A0C37	
AHU-1.9	1150	150	.50"	32.6	22.5	80.1/69.6	19.4	42	3.6 KW	208	1	60	1/3	25	25	–	--	--	2"	T'AWAY	TEM4A0C37	
AHU-1.10	1150	150	.50"	32.6	22.5	80.1/69.6	19.4	42	3.6 KW	208	1	60	1/3	25	25	–	--	--	2"	T'AWAY	TEM4A0C37	
AHU-1.11	1150	150	.50"	32.6	22.5	80.1/69.6	19.4	42	3.6 KW	208	1	60	1/3	25	25	–	--	--	2"	T'AWAY	TEM4A0C37	
AHU-1.12	1150	150	.50"	32.6	22.5	80.1/69.6	19.4	42	3.6 KW	208	1	60	1/3	25	25	–	--	--	2"	T'AWAY	TEM4A0C37	
AHU-1.13	1150	150	.50"	32.6	22.5	80.1/69.6	19.4	42	3.6 KW	208	1	60	1/3	25	25	–	--	--	2"	T'AWAY	TEM4A0C37	
AHU-1.14	1150	150	.50"	32.6	22.5	80.1/69.6	19.4	42	3.6 KW	208	1	60	1/3	25	25	–	--	--	2"	T'AWAY	TEM4A0C37	
AHU-1.15	1150	150	.50"	32.6	22.5	80.1/69.6	19.4	42	3.6 KW	208	1	60	1/3	25	25	–	--	--	2"	T'AWAY	TEM4A0C37	
AHU-1.16	1150	150	.50"	32.6	22.5	80.1/69.6	19.4	42	3.6 KW	208	1	60	1/3	25	25	–	--	--	2"	T'AWAY	TEM4A0C37	
AHU-1.17	1150	150	.50"	35.2	23.6	78.1/67.9	19.7	42	3.6 KW	208	1	60	1/3	25	25	–	--	--	2"	T'AWAY	TEM4A0C37	
AHU-2.1	NOT USED																					
AHU-2.2	1300	150	.50"	38.1	25.7	78.2/67.2	20.3	42	3.6 KW	208	1	60	1/2	29	30	–	--	--	2"	T'AWAY	TEM4A0C43	
AHU-2.3	1300	150	.50"	38.1	25.7	78.2/67.2	20.3	42	3.6 KW	208	1	60	1/2	29	30	–	--	--	2"	T'AWAY	TEM4A0C43	
AHU-2.4	1300	150	.50"	38.1	25.7	78.2/67.2	20.3	42	3.6 KW	208	1	60	1/2	29	30	–	--	--	2"	T'AWAY	TEM4A0C43	
AHU-2.5	1300	150	.50"	38.1	25.7	78.2/67.2	20.3	42	3.6 KW	208	1	60	1/2	29	30	–	--	--	2"	T'AWAY	TEM4A0C43	
AHU-2.6	1480	150	.50"	43.8	36.0	75.6/63.1	34.0	42	7.2 KW	208	1	60	3/4	51	60	–	--	--	2"	T'AWAY	TEM4A0C48	
AHU-2.7	1300	150	.50"	38.1	25.7	78.2/67.2	20.3	42	3.6 KW	208	1	60	1/2	29	30	–	--	--	2"	T'AWAY	TEM4A0C43	
AHU-2.8	1300	150	.50"	38.1	25.7	78.2/67.2	20.3	42	3.6 KW	208	1	60	1/2	29	30	–	--	--	2"	T'AWAY	TEM4A0C43	
AHU-2.9	1300	150	.50"	38.1	25.7	78.2/67.2	20.3	42	3.6 KW	208	1	60	1/2	29	30	–	--	--	2"	T'AWAY	TEM4A0C43	
AHU-2.10	1300	150	.50"	38.1	25.7	78.2/67.2	20.3	42	3.6 KW	208	1	60	1/2	29	30	–	--	--	2"	T'AWAY	TEM4A0C43	
AHU-2.11	1300	150	.50"	38.1	25.7	78.2/67.2	20.3	42	3.6 KW	208	1	60	1/2	29	30	–	--	--	2"	T'AWAY	TEM4A0C43	
AHU-2.12	1300	150	.50"	38.1	25.7	78.2/67.2	20.3	42	3.6 KW	208	1	60	1/2	29	30	–	--	--	2"	T'AWAY	TEM4A0C43	
AHU-2.13	1300	150	.50"	38.1	25.7	78.2/67.2	20.3	42	3.6 KW	208	1	60	1/2	29	30	–	--	--	2"	T'AWAY	TEM4A0C43	
AHU-2.14	1300	150	.50"	38.1	25.7	78.2/67.2	20.3	42	3.6 KW	208	1	60	1/2	29	30	–	--	--	2"	T'AWAY	TEM4A0C43	
AHU-2.15	1300	150	.50"	38.1	25.7	78.2/67.2	20.3	42	3.6 KW	208	1	60	1/2	29	30	–	--	--	2"	T'AWAY	TEM4A0C43	
AHU-2.16	1300	150	.50"	38.1	25.7	78.2/67.2	20.3	42	3.6 KW	208	1	60	1/2	29	30	–	--	--	2"	T'AWAY	TEM4A0C43	
AHU-2.17	1300	150	.50"	38.1	25.7	78.2/67.2	20.3	42	3.6 KW	208	1	60	1/2	29	30	–	--	--	2"	T'AWAY	TEM4A0C43	
AHU-2.18	1300	150	.50"	39.1	25.9	78.6/67.7	21.6	42	3.6 KW	208	1	60	1/2	29	30	–	--	--	2"	T'AWAY	TEM4A0C43	
AHU-MP	8000	900	.60"	233.0	182.4	75.6/63.5	150.6	42	29.9 KW	460	3	60	3.0**	54	60	12.5	3.2	--	2"	T'AWAY	TWE24044B **	UNIT WEIGHT 850#
AHU-A.1	1920	230	.40"	49.0	38.9	75.7/65.1	19.1	42	5.8 KW	208	1	60	3/4	42	45	–	--	--	2"	T'AWAY	TEM4A0C61M51SB	
AHU-A.2	1990	220	.50"	51.2	40.8	75.6/64.3	30.9	42	7.2 KW	208	1	60	3/4	51	60	–	--	--	2"	T'AWAY	TEM4A0C61M51SB	
AHU-A.3	1500	150	.50"	41.9	35.8	75.4/63.7	20.4	42	5.75 KW	208	1	60	3/4	42	45	–	--	--	2"	T'AWAY	TEM4A0C48S41SC	
AHU-TL	1150	275	.50"	40.3	27.7	78.9/65.2	24.4	42	3.6 KW	208	1	60	1/2	29	30	–	--	--	2"	T'AWAY	TEM4A0C43	

(1) AT ARI CONDITIONS OF 95°F AMB., 80°F D.B. AND 67°F W.B. COIL ENTERING (2) AT ARI CONDITIONS OF 47°F D.B., 43°F W.B. AMB., 70°F D.B. COIL ENTERING (3) OA FROM OAUERU UNIT

AHU SCHEDULE NOTES:

1. PROVIDE A FILTER PLENUM BOX UNDER THE UNIT FOR A 2" THICK FILTER, MAXIMUM 350 FT./MIN. FACE VELOCITY ACROSS FILTER FACE, AND HANGED, TOOL–LESS ACCESS DOOR.
2. OUTDOOR UNIT SHALL BE PROTECTED WITH SEACOAST COATING.
3. PROVIDE SINGLE POINT POWER CONNECTION.
4. PROVIDE CONDENSATE DRAIN TRAPS.
5. ** AHU–MP FAN TO BE 2 SPEED VFD UNIT.
6. PROVIDE EACH AHU WITH AN AIR PURIFICATION (BI–POLAR IONAZATION) SYSTEM INTERLOCKED WITH THE AHU FAN CIRCUIT. SEE AP SCHEDULE.

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Jacobs | TITAN TECHNOLOGIES

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PEI 23110

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY • SCHOOL DISTRICT •

Seal:

GREGORY DAMON JOINER — LICENSED PROFESSIONAL ENGINEER — No. 34180 — STATE OF FLORIDA

Project No.: 83X98235

Drawing Title:

MECHANICAL SCHEDULES AIR HANDLER UNITS

Date: 10 October 2024

Designed By: BTW
Drawn By: JSV
Checked By: GDP

Drawing No.: M-601

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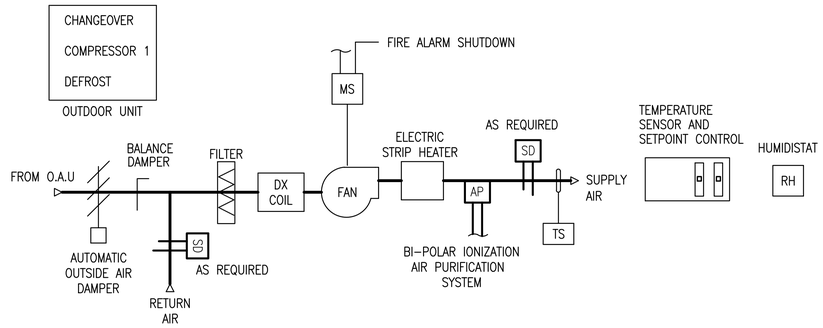
HEAT PUMP – CONDENSING UNIT SCHEDULE

MARK	DESIGN COOLING		DESIGN HEATING		REF TYPE	# OF REF. CIRCUITS	COMPRESSORS		FANS		ELECTRICAL					BASIS OF DESIGN TRANE MODEL #	REMARKS
	TOTAL MBTU/HR	AMBIENT °F	TOTAL MBTU/HR	AMBIENT °F			NO.	RLA EACH	NO.	FLA EACH	VOLTS	PHASE	Hz	MCA	MOP		
HPU–1.1	NOT USED																
HPU–1.2	32.6	95	19.4	42	410A	1	1	4.3	1	.4	460	3	60	6	15	4TWA4036A4	
HPU–1.3	32.6	95	19.4	42	410A	1	1	4.3	1	.4	460	3	60	6	15	4TWA4036A4	
HPU–1.4	32.6	95	19.4	42	410A	1	1	4.3	1	.4	460	3	60	6	15	4TWA4036A4	
HPU–1.5	32.6	95	19.4	42	410A	1	1	4.3	1	.4	460	3	60	6	15	4TWA4036A4	
HPU–1.6	28.6	95	19.4	42	410A	1	1	4.3	1	.4	460	3	60	6	15	4TWA4036A4	
HPU–1.7	32.6	95	19.4	42	410A	1	1	4.3	1	.4	460	3	60	6	15	4TWA4036A4	
HPU–1.8	32.6	95	19.4	42	410A	1	1	4.3	1	.4	460	3	60	6	15	4TWA4036A4	
HPU–1.9	32.6	95	19.4	42	410A	1	1	4.3	1	.4	460	3	60	6	15	4TWA4036A4	
HPU–1.10	32.6	95	19.4	42	410A	1	1	4.3	1	.4	460	3	60	6	15	4TWA4036A4	
HPU–1.11	32.6	95	19.4	42	410A	1	1	4.3	1	.4	460	3	60	6	15	4TWA4036A4	
HPU–1.12	32.6	95	19.4	42	410A	1	1	4.3	1	.4	460	3	60	6	15	4TWA4036A4	
HPU–1.13	32.6	95	19.4	42	410A	1	1	4.3	1	.4	460	3	60	6	15	4TWA4036A4	
HPU–1.14	32.6	95	19.4	42	410A	1	1	4.3	1	.4	460	3	60	6	15	4TWA4036A4	
HPU–1.15	32.6	95	19.4	42	410A	1	1	4.3	1	.4	460	3	60	6	15	4TWA4036A4	
HPU–1.16	32.6	95	19.4	42	410A	1	1	4.3	1	.4	460	3	60	6	15	4TWA4036A4	
HPU–1.17	35.2	95	19.7	42	410A	1	1	4.3	1	.4	460	3	60	6	15	4TWA4036A4	
HPU–2.1	NOT USED																
HPU–2.2	38.1	95	20.3	42	410A	1	1	6	1	.6	460	3	60	8	15	4TWA4042A4	
HPU–2.3	38.1	95	20.3	42	410A	1	1	6	1	.6	460	3	60	8	15	4TWA4042A4	
HPU–2.4	38.1	95	20.3	42	410A	1	1	6	1	.6	460	3	60	8	15	4TWA4042A4	
HPU–2.5	38.1	95	20.3	42	410A	1	1	6	1	.6	460	3	60	8	15	4TWA4042A4	
HPU–2.6	43.8	95	34.0	42	410A	1	1	6.2	1	.6	460	3	60	8	15	4TWA4048A4	
HPU–2.7	38.1	95	20.3	42	410A	1	1	6	1	.6	460	3	60	8	15	4TWA4042A4	
HPU–2.8	38.1	95	20.3	42	410A	1	1	6	1	.6	460	3	60	8	15	4TWA4042A4	
HPU–2.9	38.1	95	20.3	42	410A	1	1	6	1	.6	460	3	60	8	15	4TWA4042A4	
HPU–2.10	38.1	95	20.3	42	410A	1	1	6	1	.6	460	3	60	8	15	4TWA4042A4	
HPU–2.11	38.1	95	20.3	42	410A	1	1	6	1	.6	460	3	60	8	15	4TWA4042A4	
HPU–2.12	38.1	95	20.3	42	410A	1	1	6	1	.6	460	3	60	8	15	4TWA4042A4	
HPU–2.13	38.1	95	20.3	42	410A	1	1	6	1	.6	460	3	60	8	15	4TWA4042A4	
HPU–2.14	38.1	95	20.3	42	410A	1	1	6	1	.6	460	3	60	8	15	4TWA4042A4	
HPU–2.15	38.1	95	20.3	42	410A	1	1	6	1	.6	460	3	60	8	15	4TWA4042A4	
HPU–2.16	38.1	95	20.3	42	410A	1	1	6	1	.6	460	3	60	8	15	4TWA4042A4	
HPU–2.17	38.1	95	20.3	42	410A	1	1	6	1	.6	460	3	60	8	15	4TWA4042A4	
HPU–2.18	39.1	95	21.6	42	410A	1	1	6	1	.6	460	3	60	8	15	4TWA4042A4	
HPU–MP	233.0	95	150.6	42	410A	2	2	16.0/16.0	2	2.2/EA.	460	3	60	40	60	TWA24044D	
HPU–A.1	49.0	95	19.1	42	410A	1	1	7.1	1	.6	460	3	60	9	15	4TWA4060A4	
HPU–A.2	51.2	95	30.9	42	410A	1	1	7.1	1	.6	460	3	60	9	15	4TWA4060A4	
HPU–A.3	41.9	95	20.4	42	410A	1	1	6.2	1	.6	460	3	60	8	15	4TWA4042A4	
HPU–TL	40.3	95	24.4	42	410A	1	1	10.2	1	1.05	208	3	60	25	40	4TWR4042G1	

HEAT PUMP – OUTDOOR UNIT SCHEDULE NOTES:

PROVIDE WITH PAD OR OTHER SUPPORT AS REQUIRED
BOLT UNITS TO CONCRETE PAD USING STAINLESS STEEL FASTENERS
OUTDOOR UNIT SHALL BE PROTECTED WITH SEACOAST COATING.
THE COMPRESSOR AND INSIDE FAN ARE TO BE INTERLOCKED SUCH THAT
IF EITHER COMPONENT IS SHUT DOWN THE OTHER COMPONENT GOES DOWN ALSO.



TYPICAL HEAT PUMP UNIT CONTROL

SEQUENCE OF OPERATION – HEAT PUMP

THE INDOOR UNIT FAN SHALL BE STARTED BY THE DDC PANEL ACCORDING TO ITS' OCCUPIED/UNOCCUPIED SCHEDULE.
OCCUPIED MODE:
WHEN ROOM TEMPERATURE RISES ABOVE THE COOLING SET POINT THE OUTDOOR UNIT REVERSING VALVE AND DX COOLING SHALL BE CYCLED AS NEEDED TO SATISFY SPACE COOLING REQUIREMENTS. WHEN ROOM TEMPERATURE FALLS BELOW THE HEATING SET POINT THE OUTDOOR UNIT REVERSING VALVE AND ONE STAGE OF COMPRESSOR HEAT SHALL BE CYCLED AS NEEDED TO SATISFY SPACE HEATING REQUIREMENTS. WHEN THE OUTDOOR UNIT DEFROST CIRCUIT IS ACTIVATED THE AUXILIARY HEAT SHALL CYCLE AS NEEDED TO PREVENT OVERCOOLING THE SPACE. WHEN ROOM HUMIDITY RISES ABOVE SET POINT THE HEAT PUMP DX COOLING SHALL BE ACTIVATED AND THE ELECTRIC HEAT SHALL BE CYCLED ON AS NEEDED TO MAINTAIN ROOM TEMPERATURE. THE OUTSIDE AIR DAMPER SHALL BE OPEN DURING OCCUPIED SCHEDULE AND THE FAN SHALL OPERATE IN THE ON MODE.
UNOCCUPIED MODE:
THE AHU AND HPU WILL OPERATE IN THE AUTOMATIC MODE FROM THR SETBACK TEMPERATURE SET–POINTS (ADJUSTABLE). FAN WILL ACTIVATE ONLY WHEN THERE IS A CALL FOR COOLING OR HEATING AND THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED.
AN UNOCCUPIED TWO HOUR OVER–RIDE SEQUENCE SHALL BE PROVIDED FOR EACH ROOM AHU/HP UNIT. IN OVER–RIDE THE UNIT OPERATE AT OCCUPIED SET–POINTS
All UNIT SHALL BE SHUT DOWN UPON ACTIVATION OF BUILDING FIRE ALARM.

SEQUENCE OF OPERATION – (BI–POLAR IONIZATION) AIR PURIFICATION SYSTEMS

POWER TO EACH MODULES SHALL BE INTERLOCKED WITH THE FAN CONTROL CIRCUIT. CONNECT TO THE DDC SYSTEM FOR STATUS INFORMATION AN PROVIDE A INDIVIDUAL SYSTEM ALARM WHEN THAT SYSTEM IS DOWN.

SEQUENCE OF OPERATION – ERV

THE OUTSIDE AIR ENERGY RECOVERY UNIT SHALL BE STARTED BY THE DDC PANEL ACCORDING TO ITS' OCCUPIED/UNOCCUPIED SCHEDULE. DIRTY FILTER SHALL TRIGGER AN ALARM IN THE DDC SUSTEM.
OCCUPIED MODE:
THE UNIT WILL BE ACTIVATED AND OPERATE THE FANS AND WHEEL OFF OF ITS INTERNAL CONTROLS TO MAINTAIN A OUTSIDE AIR FLOW.
THE OUTSIDE AIR DAMPER BE OPEN.

UNOCCUPIED MODE:
UNIT SHALL BE OFF.
THE OUTSIDE AIR DAMPER CLOSED.

THE UNIT SHALL BE SHUT DOWN UPON ACTIVATION OF BUILDING FIRE ALARM.

SEQUENCE OF OPERATION – EXHAUST FANS

THE FANS SHALL BE STARTED BY THE DDC PANEL ACCORDING TO ITS' OCCUPIED/UNOCCUPIED SCHEDULE, UNLESS STATED OTHERWISE IN THE EF SCHEDULE.
OCCUPIED MODE:
THE EXHAUST FANS SHALL BE ACTIVATED ON.

UNOCCUPIED MODE:
THE EXHAUST FANS SHALL BE DEACTIVATED, OFF AND ANY ASSOCIATED DAMPERS ARE TO BE CLOSED.

ALL EXHAUST FANS SHALL BE SHUT DOWN UPON ACTIVATION OF BUILDING FIRE ALARM.

SEQUENCE OF OPERATION – BIPOLAR ION GENERATOR AIR CLEANER

THE DDC SYSTEM SHALL MONITOR THE OUT PUT FROM EACH BPIG AIR CLEANING UNIT AND INDICATE AN ALARM WHEN ANY UNIT STATIS IS DOWN.

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal:

Project No.: 83X98285

Drawing Title:
MECHANICAL SCHEDULES HEAT PUMPS AND CONTROL SEQUENCES

Date: 10 October 2024

Designed By: BTW
Drawn By: JSV
Checked By: GDP

Drawing No.: M-602

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OUTSIDE AIR ENERGY RECOVERY WHEEL UNIT SCHEDULE

MARK	OUTSIDE AIR												REGENERATION AIR												UNIT WEIGHT (LBS)	BASIS OF DESIGN COOK MODEL #
	FAN			COOLING				HEATING				FILTERS		FAN			MOISTURE REMOVAL				HEATING O A	FILTERS		ELECTRICAL						
	CFM NOM.	ESP IN H_2O	MAX. HP	ENT DB °F	ENT WB °F	LEAVING DB °F	LEAVING WB °F	ENT DB °F	ENT WB °F	LEAVING DB °F	MAX INPUT MBTU/HR	TYPE	SIZE	CFM NOM.	ESP IN H_2O	HP	ENT DB °F	ENT WB °F	MAX INPUT MBTU/LB	MAX TEMP °F	ENT DB °F	TYPE	SIZE	VOLTS	PH.	Hz	MCA	MOCP		
ERV-1	5000	1.0	5.0	98	83	83.4	71.5	35	28	58.5	47.0	MERV-8	2"	3800	.75	3.0	83.4	71.5	35.28	125	35	MERV-8	2"	208	3	60	35.2	60	1400	ERV 5500 OR EQUAL

ERV UNIT OPTIONS AND ACCESSORIES TO BE PROVIDED:

1. UNIT SHALL BE SUPPLIED WITH BASE RAIL AND CONTRACTOR SUPPLIED MINIMUM 4" EQUIPMENT PAD AND 12" HIGH STRUCTURAL PLATFORM.
2. DUCT FLANGES FOR DISCHARGE AND INTAKE OPENINGS.
3. HINGED ACCESS DOORS (TOOLESS ENTRY), QUARTER TURN LATCHES.
4. DOUBLE WALL CONSTRUCTION.
5. FIELD INSTALLED DISCONNECT SWITCHES.
6. DIRTY FILTER SENSOR
7. UNIT INTERFACE WITH THE BUILDING DDC SYSTEM AND INTERLOCKED WITH THE AHU'S AND EXHAUST FANS (OCCUPIED/UNOCCUPIED).

ERV SPEFICATIONS:

DESCRIPTION: UNIT SHALL BE BELT DRIVEN ENERGY RECOVERY VENTILATOR.

CERTIFICATIONS: UNIT SHALL BE MANUFACTURED AT AN ISO 9001 CERTIFIED FACILITY. UNIT SHALL BE LISTED BY UNDERWRITERS LABORATORIES (UL 1812) AND UL LISTED FOR CANADA (CUL 1812). UNIT SHALL BEAR THE AMCA CERTIFIED RATINGS SEAL FOR AIR PERFORMANCE.

CONSTRUCTION: THE UNIT SHALL BE OF BOLTED CONSTRUCTION UTILIZING CORROSION RESISTANT FASTENERS. HOUSING SHALL BE MINIMUM 18 GAUGE GALVANIZED STEEL, BOLTED TO A MINIMUM 16 GAUGE GALVANIZED STEEL BASE WITH INTEGRAL LIFTING LUGS. UNIT SHALL BE PROVIDED WITH INSULATED TOP, SIDE AND INTERIOR PANELS UTILIZING DOUBLR WALL CONSTRUCTION. ENERGY RECOVERY WHEEL SHALL BE MOUNTED IN A SLIDE TRACK FOR EASY INSPECTION AND CLEANING. SEPARATE BLOWER AND MOTOR SHALL BE PROVIDED FOR SUPPLY AND EXHAUST AIRSTREAM FOR INDEPENDENT SYSTEM BALANCING. BLOWER AND MOTOR ASSEMBLIES SHALL BE MOUNTED ON RUBBER VIBRATION ISOLATORS. TWO INCH THICK, MERV 8 FILTERS SHALL BE PROVIDED FOR SUPPLY AND EXHAUST AIRSTREAMS. REMOVABLE SIDE PANELS SHALL BE PROVIDED FOR EASY ACCESS TO MOTORS, BLOWERS, FILTERS, AND ENERGY RECOVERY WHEEL. UNIT SHALL BEAR AN ENGRAVED ALUMINUM NAMEPLATE. NAMEPLATE SHALL INDICATE DESIGN CFM, STATIC PRESSURE, AND MAXIMUM FAN RPM. UNIT SHALL BE SHIPPED IN ISTA CERTIFIED TRANSIT TESTED PACKAGING.

ENERGY WHEEL: WHEEL SHALL BE A TOTAL ENERGY RECOVERY WHEEL CONSTRUCTED OF FLUTED SYNTHETIC FIBER-BASED MEDIA IMPREGNATED WITH A NON-MIGRATING WATER SELECTIVE 4 ANGSTROM MOLECULAR SIEVE DESICCANT. WHEELS WITH THE DESICCANT APPLIED IN A SECONDARY OPERATION WILL NOT BE ACCEPTED.

FAN WHEEL: WHEEL SHALL BE DWDI CENTRIFUGAL FORWARD CURVED TYPE, CONSTRUCTED OF COATED STEEL. WHEEL SHALL BE BALANCED IN ACCORDANCE WITH AMCA STANDARD 204-05, BALANCE QUALITY AND VIBRATION LEVELS FOR FANS.

MOTORS: MOTOR SHALL BE NEMA DESIGN B WITH CLASS B INSULATION RATED FOR CONTINUOUS DUTY AND FURNISHED AT THE SPECIFIED VOLTAGE, PHASE, AND ENCLOSURE.
COILS: ALL HEAT AND COOLING COILS SHALL BE TESTED AND RATED IN ACCORDANCE WITH ARI STANDARD 410 AND CERTIFIED IN ACCORDANCE WITH THE ARI CERTIFICATION PROGRAM. DX COILS SHALL BE EQUIPPED WITH DISTRIBUTORS TO RECEIVE EXPANSION VALVES AT THE LIQUID CONNECTIONS.

CONTROLS AND ELECTRICAL: ALL INTERNAL ELECTRICAL COMPONENTS SHALL BE PRE-WIRED FOR SINGLE POINT POWER CONNECTION. INTERNAL CONTROL PANEL SHALL BE UL LISTED WITH HINGED ACCESS DOOR AND INTERLOCKING NEMA 3R DISCONNECT SWITCH. EACH MOTOR SHALL HAVE A MOTOR STARTER COMBINATION PROVIDING FUSELESS DISCONNECT, OVER-CURRENT, OVERLOAD AND MOTOR STARTING FUNCTIONS. A 24 VOLT CIRCUIT SHALL BE PROVIDED TO ALLOW REMOTE ON/OFF CONTROL OF ERV BY BUILDING CONTROL SYSTEM. SHORT CIRCUIT PROTECTION SHALL BE PROVIDED ON PRIMARY AND SECONDARY OF CONTROL POWER TRANSFORMER.

BEARINGS: BEARINGS SHALL BE PERMANENTLY LUBRICATED, SEALED BALL TYPE SELECTED FOR A MINIMUM L50 LIFE IN EXCESS OF 200,000 HOURS AT MAXIMUM CATALOGED OPERATING SPEED.

BELTS AND DRIVES: BELTS SHALL BE OIL AND HEAT RESISTANT, STATIC CONDUCTING. DRIVES SHALL BE PRECISION MACHINED CAST IRON TYPE, KEYED AND SECURELY ATTACHED TO THE WHEEL AND MOTOR SHAFTS. DRIVES SHALL BE SIZED FOR 150 PERCENT OF THE INSTALLED MOTOR HORSEPOWER. THE VARIABLE PITCH MOTOR DRIVE MUST BE FACTORY SET TO THE SPECIFIED FAN RPM.

FAN SCHEDULE

MARK	LOCATION	TYPE	DRIVE	PERFORMANCE DATA				ELECTRICAL				CONTROL	BASIS OF DESIGN GREENHECK MODEL #
				AIR FLOW CFM	E.S.P. IN. H_2O	MAX. RPM	MAX. SONES	MAX. WATTS	VOLTS	PH.	Hz		
EF-1	C.R. SINGLE TOILETS	CF	DD	80	0.30"	870	0.4	20	115	1	60	DDC/OAU, NOTE 5	SP-A90
EF-2	GANG TLTS.	CF	DD	375	0.35"	1070	4.5	121	115	1	60	DDC/OAU, NOTE 5	SP-A510
EF-3	C.R. JANITOR	CF	DD	80	0.30"	870	0.4	20	115	1	60	DDC/OAU, NOTE 5	SP-A90
EF-4	ADMIN. SINGLE TOILETS	CF	DD	100	0.30"	1100	0.6	23	115	1	60	LIGHT SWITCH, NOTE 4	SP-A125
EF-5	ADMIN. NURSE SHOWER-TOILET	CF	DD	150	0.38"	1400	1.5	55	115	1	60	LIGHT SWITCH, NOTE 4	SP-A190
EF-6	ADMIN. JANITOR	CF	DD	100	0.30"	1100	0.6	23	115	1	60	LIGHT SWITCH, NOTE 4	SP-A125
EF-7	TEACH. LOUNGE TOILETS	CF	DD	200	0.50"	1350	5.0	55	115	1	60	LIGHT SWITCH, NOTE 4	SP-A390
EF-8	TEACH. LOUNGE SINGLE TOILETS	CF	DD	100	0.30"	1100	0.6	23	115	1	60	LIGHT SWITCH, NOTE 4	SP-A125

FAN SCHEDULE LEGEND

DD – DIRECT DRIVE
BD – BELT DRIVE
EF – EXHAUST FAN
CF – CABINET FAN
ESP – EXTERNAL STATIC PRESSURE
PH – PHASE

FAN SCHEDULE NOTES:

1. ALL EXHAUST FANS SHALL BE INSTALLED WITH FLEXIBLE DUCT CONNECTION, VIBRATION ISOLATORS, AND FLEXIBLE CONDUIT. FAN SHALL NOT BE IN CONTACT WITH ANY OTHER DUCT, PIPING, CONDUIT, OR STRUCTURAL MEMBERS.
2. THE FANS SHALL BE PROVIDED WITH BACKDRAFT DAMPERS.
3. ALL DIRECT DRIVE FANS WITH MOTORS LESS THEN 1/2 HP SHALL BE PROVIDED WITH AN ADJUSTABLE ELECTRONIC SPEED CONTROLLER. COORDINATE WITH ELECTRICAL CONTRACTOR FOR INSTALLATION.
4. INTERLOCK WITH MOTION SENSOR LIGHT SWITCH/TIMER BY FAN MFG. OR ELECTRICAL. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR (COORDINATE).
5. EF-1 & EF-2 ARE TO BE CONTROLLED BY THE DDC SYSTEM AND INTERLOCKED WITH THE OAU/ERV UNIT (OCCUPIED/UNOCCUPIED).

BIPOLAR ION GENERATOR AIR CLEANER SCHEDULE

MARK	MAX. TREATED AIRFLOW CFM	MOUNTING LOCATION	SELF CLEANING	POWER (VA)	OZONE VALIDATED	DATA OUTPUT TO BMS (DDC)	BASIS OF DESIGN AIR + MODEL #	NOTES:
BGAC-1	UP TO 6000	UNIT DISCHARGE	AUTOMATIC	4.8	UL2998	INTEGRAL	DM-6000	MIN. 1 UNIT PER AHU

BIPOLAR ION GENERATOR SCHEDULE NOTES:

1. ALL UNITS SHALL BE SELF CLEANING AND NOT REQUIRE ANY MAINTENANCE OR REPLACEMENT PARTS.
2. ALL UNITS SHALL BE LISTED TO UL 867.
3. DRY CONTACTS SHALL INDICATE ION OUTPUT, NOT POWER AVAILABLE.
4. ALL UNITS SHALL BE CAPABLE OF DELIVERING DATA TO THE BMS INCLUDING OPERATING HOURS AND CLEANING CYCLES, AND STATUS.
5. ION GENERATING NEEDLES SHALL BE RECESSEED. EXPOSED NEEDLES OR BRUSHES WILL NOT BE ACCPTED DUE TO ACCUMULATION OF DIIRT AND DUST SIGNIFICANTLY REDUCING ION OUTPUT OVER TIME.
6. ION GENERATORS SHALL BE POWERED FROM THE 24V FAN CONTROL CIRCUIT..
7. FAULT RESET SHALL BE AUTOMATIC. MANUAL FUSE REPLACEMENT WILL NOT BE ACCEPTED.

DUCTLESS SPLIT SYSTEM HEAT PUMP – FAN COIL / OUTDOOR UNIT SCHEDULE

MARK	TYPE	AREA SERVED	REF TYPE	AIR DATA	COOLING	HEATING	ELECTRICAL					REMARKS BASIS OF DESIGN LG MODEL #: FCU/HPCU
				TOTAL AIR CFM/NOM.	TOTAL (1) MBTU/HR	TOTAL (2) MBTU/HR	VOLTS	PH.	Hz	MCA	MOP	
FCU-A /HPCU-1	WALL MOUNT	ADMIN. COMM	410A	459	12.00	13.60	208-230	1	60	10.0	15	(3) LSN120HSV5/LSU120HSV5*
FCU-B /HPCU-2	WALL MOUNT	CR 1ST FL COMM	410A	459	12.00	13.60	208-230	1	60	10.0	15	(3) LSN120HSV5/LSU120HSV5*
FCU-C /HPCU-3	WALL MOUNT	CR 2ND FL COMM	410A	459	12.00	13.60	208-230	1	60	10.0	15	(3) LSN120HSV5/LSU120HSV5*
~~FCU-D /HPCU-4~~	~~WALL MOUNT~~	~~ELEVATOR EQUIP.~~	~~410A~~	~~459~~	~~12.00~~	~~13.60~~	~~208-230~~	~~1~~	~~60~~	~~10.0~~	~~15~~	~~(3) LSN120HSV5/LSU120HSV5*~~
–	–	–	–	–	–	–	–	–	–	–	–	–

HEAT PUMP – AIR HANDLING UNIT SCHEDULE NOTES

(1) AT ARI CONDITIONS OF 95°F AMB., 80°F D.B. AND 67°F W.B. COIL ENTERING
(2) AT ARI CONDITIONS OF 47°F D.B., 43°F W.B. AMB., 70°F D.B. COIL ENTERING
(3) PROVIDE FACTORY CONDENSATE PUMP AND ROUTE DRAIN, AS INDICATED.

HEAT PUMP – OUTDOOR UNIT SCHEDULE NOTES:

PROVIDE EQUIPMENT PAD AND SECURE CONDENSING UNITS TO EQUIPMENT PAD.
ELECTRICAL POWER FOR THE INSIDE UNITS IS PROVIDED FROM THE OUTDOOR UNIT.
* POWER FOR FCU-A COMES FROM HPCU-1...

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Seal:



Pr... No.: 8...
Dr...

MECHANICAL SCHEDULES AND DIAGRAMS

Date: 10 October 2024
Designed By: BTW
Drawn By: JSV
Checked By: GDP
Drawing No.: M-603

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ELECTRICAL GENERAL NOTES

1. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
2. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT SIZE AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
3. RECEPTACLES, SWITCHES AND COVER PLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
4. LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR MECHANICAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL MECHANICAL EQUIPMENT LOCATION TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE. FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
5. ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHTING CIRCUIT AHEAD OF LOCAL SWITCH.
6. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, DISCONNECTS, ETC SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
7. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
8. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE MECHANICAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
9. FURNISH ALL EQUIPMENT AND LABOR, PERFORM ALL LABOR WITH SUPERVISION, BEAR ALL EXPENSES, AS NECESSARY FOR THE SATISFACTORY COMPLETION OF ALL WORK READY FOR OPERATION.
10. COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE FLORIDA STATE BUILDING CODE AND THE NATIONAL ELECTRIC CODE.
11. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.
12. OBTAIN ARCHITECTS APPROVAL OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANELBOARDS, ETC. PRIOR TO PURCHASING.
13. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY CONFLICTS/DISCREPANCIES BETWEEN DISCIPLINES BEFORE ORDERING EQUIPMENT/MATERIALS.
14. DECORATIVE COVER PLATES FOR RECEPTACLE OUTLETS, SWITCHES, ETC. SHALL BE STAINLESS STEEL; REFER TO ELECTRICAL SPECIFICATIONS
15. INSTALL OCCUPANCY SENSORS AND ACCESSORIES PER MANUFACTURER'S RECOMMENDATIONS. ALL CONDUCTORS (INCLUDING CONTROLS) ASSOCIATED WITH OCCUPANCY SENSORS AND POWER PACKS SHALL BE INSTALLED IN 1/2" CONDUIT MINIMUM.
16. ELECTRICAL CONTRACTOR SHALL PAINT AND LABEL ALL JUNCTION BOXES TO IDENTIFY PANEL AND CIRCUIT; SEE ELECTRICAL SPECIFICATIONS.
17. ALL CONDUCTORS INDICATED ON PLAN SHALL BE COPPER.
18. ALL CABLING IN PLENUM AREAS NOT INSTALLED IN CONDUIT SHALL BE PLENUM RATED.
19. ELECTRICAL CONTRACTOR SHALL SUBMIT A SCALED SHOP DRAWING OF ALL ELECTRICAL ROOMS INDICATING THE EXACT SIZES, LOCATIONS, AND DESIGNATIONS OF THE FOLLOWING: PANELBOARDS, FIRE ALARM CONTROL PANEL, INTERCOM SYSTEM, TERMINAL CABINET, LIGHTING CONTACTOR, HOA SWITCH AND COMMUNICATION BACKBOARD.
20. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH JACOBS/TITAN REPRESENTATIVE, THE LOCATIONS AND HEIGHTS OF ALL ELECTRICAL DEVICES FOR TYPICAL LAYOUTS OF CLASSROOMS AND OTHER ROOMS PRIOR TO ELECTRICAL (INCLUDING TELECOMM) DEVICE ROUGH-IN.
21. THE ELECTRICAL CONTRACTOR SHALL OBTAIN APPROVED VENDOR SHOP DRAWINGS FOR ALL SYSTEMS (INTERCOM, FIRE ALARM, ETC) PRIOR TO INSTALLING ANY CONDUIT OR JUNCTION BOXES TO ENSURE THE SYSTEM INSTALLATION IS FULLY COORDINATED. THE SHOP DRAWINGS SHALL SUPERSEDE THE DESIGN DRAWINGS. ADDITIONALLY A COORDINATION MEETING BETWEEN EACH VENDOR AND ELECTRICAL CONTRACTOR SHALL OCCUR PRIOR TO THE ROUGH-IN PHASE. THIS MEETINGS SHALL BE DOCUMENTED AND PROVIDE INFORMATION TO ASSIST EACH OTHER WITH COORDINATION.
22. THE ELECTRICAL CONTRACTOR SHALL OBTAIN APPROVED VENDOR SHOP DRAWINGS FROM THE SECURITY (ACS/CCTV/IDS) CONTRACTOR PRIOR TO INSTALLING ANY CONDUIT OR JUNCTION BOXES TO ENSURE THE SYSTEM INSTALLATION IS FULLY COORDINATED. THE SHOP DRAWINGS SHALL SUPERSEDE THE DESIGN DRAWINGS. ADDITIONALLY A COORDINATION MEETING BETWEEN THE SECURITY AND ELECTRICAL CONTRACTOR SHALL OCCUR PRIOR TO THE ROUGH-IN PHASE. THIS MEETING SHALL BE DOCUMENTED AND GIVE AN OPPORTUNITY TO PROVIDE INFORMATION TO ASSIST EACH OTHER.
23. THE ELECTRICAL CONTRACTOR SHALL REVIEW THE COMMUNICATIONS 'T' SHEETS, SECURITY 'TY' SHEETS, AUDIO VISUAL SHEETS AND PROVIDE/INSTALL ALL CONDUITS AND GROUNDING NECESSARY TO ASSIST WITH THE COMMUNICATIONS, SECURITY AND AUDIO VISUAL SYSTEMS INSTALL.
24. THE ELECTRICAL AND MECHANICAL CONTRACTOR SHALL PROVIDE A HVAC & ELECTRICAL COORDINATION SHOP DRAWING SPREADSHEET PRIOR TO ROUGH-IN. THE MECHANICAL/PLUMBING PART OF THE SPREADSHEET SHALL LIST ALL MECHANICAL AND PLUMBING EQUIPMENT BEING FURNISHED ON THE PROJECT ALONG WITH THE MANUFACTURER REQUIRED VOLTAGE, PHASE, HORSEPOWER/WATTAGE, MCA, FLA, AND MOCP. THE ELECTRICAL PART OF THE SPREADSHEET SHALL LIST THE ELECTRICAL DRAWINGS REQUIREMENT VOLTAGE, PHASE, CIRCUIT BREAKER AMP/POLE, DISCONNECT SIZE, AND FEEDER AND CONDUIT SIZE. IF THE MECHANICAL REQUIREMENTS AND ELECTRICAL REQUIREMENTS DO NOT MATCH, THEN THE CONTRACTOR SHALL ADD TO THE SPREADSHEET WHAT CORRECTIVE ACTION THE CONTRACTORS ARE TAKING TO ENSURE ALL EQUIPMENT IS COORDINATED AND INSTALLED PER THE MANUFACTURERS REQUIREMENTS.
25. CONTRACTOR TO ENGAGE THE UTILITY TO PROVIDE FAULT CURRENT CALCULATIONS FOR THE SERVICE EQUIPMENT AND MARK THE EQUIPMENT WITH THE AVAILABLE FAULT CURRENT AND DATE OF THE CALCULATION PER NEC 110.24. ADDITIONALLY THE CONTRACTOR SHALL PROVIDE ARC FAULT LABELS PER NEC ARTICLE 110.16 FOR NEW EQUIPMENT. THE CONTRACTOR SHALL ENGAGE THE GEAR EQUIPMENT SUPPLIER TO PROVIDE THE ARC FLASH STUDY AND REQUIRED LABELS BASED ON ALL PANELS BEING PROVIDED. ARC FLASH LABELS SHALL BE SELF-ADHESIVE VINYL, A MINIMUM OF 4"H x 6"W, AND CLEARLY VISIBLE WHEN AFFIXED TO THE ELECTRICAL EQUIPMENT.
26. HVAC EQUIPMENT POWER WIRING SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. CONTROL EQUIPMENT AND CONTROL WIRING SHALL BE FURNISHED UNDER DIVISION 15 UNLESS OTHERWISE NOTED. PROVIDE 3/4" CONDUITS WITH PULL WIRE BETWEEN INSIDE AND OUTSIDE UNITS, THERMOSTAT OUTLETS AND UNITS AND/OR MECHANICAL CONTROL PANEL AS APPLICABLE. THERMOSTAT OUTLETS SHALL BE 4" SQUARE OUTLETS, FLUSH MOUNTED WITH SINGLE GANG OR DOUBLE GANG PLASTER RINGS AS DIRECTED BY THE HVAC CONTRACTOR. COORDINATE EXACT LOCATION OF ALL EQUIPMENT, DEVICES, OUTLETS, ETC. WITH THE MECHANICAL DRAWINGS AND DIVISION 15 SPECIFICATIONS. COORDINATE WITH THE HVAC CONTRACTOR FOR EXACT LOCATIONS OF ALL EQUIPMENT.
27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING AROUND DEVICES, PENETRATIONS, OUTLETS, AND CONDUITS THAT PENETRATE THE WALLS ABOVE THE CEILING TO MAINTAIN SOUNDPROOFING. CONTRACTOR SHALL VERIFY THAT THE OPENING SIZES ARE LESS THAN 1/2" ON ALL SIDES OF THE PENETRATIONS. ALL OPENINGS IN EXCESS OF 1/2" SHALL BE CAULKED/SEALED WITH SHEET ROCK MUD. THE DRYWALL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING PENETRATIONS IN PLACE WHEN THE SHEETROCK IS INSTALLED. PENETRATIONS MADE AFTER THE DRYWALL CONTRACTOR HAS COMPLETED IN AN AREA SHALL BE SEALED BY THE CONTRACTOR MAKING THE PENETRATION.
28. ENSURE THAT ALL PENETRATIONS OF FIRE WALLS AND DECKS ARE PROPERLY SEALED PER INTERNATIONAL BUILDING CODE 712 AND WITH AN UL APPROVED DEVICE OR FIRE CAULK. REFER TO ARCHITECTURAL PLANS FOR THE LOCATIONS OF RATED FIRE WALLS AND UL ASSEMBLY LOCATIONS AND TYPES AND BID ACCORDINGLY.
29. ALL RACEWAYS SHALL BE SUPPORTED PER NEC AND AT LEAST EVERY 10' AND WITHIN 3' OF EVERY JUNCTION BOX.
30. ALL ELECTRICAL RACEWAYS AND CABLING SHALL BE INSTALLED CONCEALED EXCEPT IN UTILITY AREAS.
31. ENSURE POWER AND COMMUNICATIONS RACEWAYS ARE SEPARATED A MINIMUM OF 18".

ELECTRICAL LEGEND

CEILING OUTLETS

Symbol	Description
"DI" a	RECESSED 2' X 2' LED FIXTURE MARK "DI" ZONE a
	RECESSED 2' X 2' LED FIXTURE WITH EMERGENCY UNIT BATTERY PACK
NL	RECESSED 2' X 2' LED FIXTURE WITH EMERGENCY UNIT BATTERY PACK. 'NL' INDICATES NIGHT LIGHT, SHALL BE WIRED FOR CONTINOUS OPERATION.
	LED LIGHTING FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR DETAILS
	LED LIGHTING FIXTURE WITH EMERGENCY UNIT BATTERY PACK
NL	LED LIGHTING FIXTURE. 'NL' INDICATES NIGHT LIGHT, SHALL BE WIRED FOR CONTINUOUS OPERATION.
	RECESSED LED DOWN LIGHT
	RECESSED LED DOWN LIGHT WITH EMERGENCY UNIT BATTERY PACK
	EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED
J	JUNCTION BOX
	DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. FLUSH MOUNT IN CEILING.

WALL OUTLETS

Symbol	Description
	DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. TO C/L UNLESS NOTED OTHERWISE
WP	DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. TO C/L UNLESS NOTED OTHERWISE; PROVIDE IN-USE WEATHERPROOFBOX FOR RECEPTACLE
G	DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
G	DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER TO C/L UNLESS NOTED OTHERWISE
	DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 26" AFF TO C/L FOR DRINKING FOUNTAIN
	QUADRAPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. TO C/L UNLESS NOTED OTHERWISE
	COMMUNICATIONS CABINET MOUNTED RECEPTACLE - 250V, 30A, 1 PHASE, 2-POLE, 3W, NEMA L6-30R. INSTALL RECEPTACLE MOUNTED AT BASE OF CABINET WITH RECEPTACLE FACING TOWARDS CENTER OF CABINET.
	WALL MOUNTED LED LIGHT FIXTURE
	WALL MOUNTED EXIT LIGHT FIXTURE
	WALL MOUNTED LED LIGHT FIXTURE
	WALL MOUNTED EXIT LIGHT WITH EMERGENCY BATTERY PACK

WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F. TO C/L)

Symbol	Description
S	A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT
S_3	A.C. TYPE, 3-WAY, 20 AMP, 120/277 VOLT

LIGHTING CONTROLS

Symbol	Description
O	360° CEILING MOUNTED OCCUPANCY SENSOR EQUAL REFER TO 'DETAILS' ON E-504 AND E-505 PROVIDE ASSOCIATED POWER PACKS AS REQUIRED. SENSORS SHALL CONTROL LIGHTING AND RECEPTACLES WHERE NOTED.
V	360° CEILING MOUNTED VACANCY SENSOR EQUAL REFER TO 'DETAILS' ON E-504 AND E-505 PROVIDE ASSOCIATED POWER PACKS AS REQUIRED. SENSORS SHALL CONTROL LIGHTING AND RECEPTACLES WHERE NOTED.
RC	SINGLE RELAY NON-DIMMING ROOM CONTROLLER; REFER TO 'DETAILS' ON E-504 AND E-505.
RC1	SINGLE RELAY DIMMING ROOM CONTROLLER; REFER TO 'DETAILS' ON E-504 AND E-505.
RC2	TWO CHANNEL DIMMING ROOM CONTROLLER; REFER TO 'DETAILS' ON E-504 AND E-505.
RC3	THREE CHANNEL DIMMING ROOM CONTROLLER; REFER TO 'DETAILS' ON E-504 AND E-505.
S_{RD}	SWITCH TYPE DUAL TYPE OCCUPANCY SENSOR
S_{L2}	2-BUTTON LOW VOLTAGE LIGHTING CONTROL SWITCH
S_{L5}	5-BUTTON LOW VOLTAGE LIGHTING CONTROL SWITCH
S_{L8}	8-BUTTON LOW VOLTAGE LIGHTING CONTROL SWITCH

GROUND OUTLETS

Symbol	Description
	GROUND MOUNTED AIMABLE FLAG POLE LIGHT FIXTURE.

PANELS AND POWER

Symbol	Description
	120/208 VOLT PANELBOARD
	277/480 VOLT PANELBOARD
	CONTROL PANEL
T	DRY TYPE TRANSFORMER
M	MOTOR - SIZE AND CHARACTERISTICS AS NOTED
	NON-FUSIBLE DISCONNECT SWITCH; XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING
	FUSIBLE DISCONNECT SWITCH; XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING; FUSE PER MANUFACTURER'S RECOMMENDATIONS
S_M	MOTOR RATED TOGGLE SWITCH, 30A, 600V RATED, NEMA 1 ENCLOSURE

BRANCH CIRCUITING

Symbol	Description
	RUN CONCEALED UNDER FLOOR OR IN GRADE
	RUN CONCEALED IN CEILING OR WALLS. ALL CONDUIT IN FINISHED AREAS SHALL BE CONCEALED.
LA-1	HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #12, 1 #12 GROUND - 1/2" C; 3 #12, 1 #12 GROUND - 1/2" C; 4 #12, 1 #12 GROUND - 1/2" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
	LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION

MISCELLANEOUS

A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
ACD	ACCESS CONTROL DOOR
ACP	ACCESS CONTROL PANEL
C/L	CENTERLINE
C	CONDUIT
GND	GROUND
G	GROUND FAULT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
FACP	FIRE ALARM CONTROL PANEL
U.N.O.	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF

LOW VOLTAGE SYSTEMS INFRASTRUCTURE COORDINATION NOTE

THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL INFRASTRUCTURE (POWER AND PATHWAYS) FOR THE PROJECT'S LOW VOLTAGE SYSTEMS. THE PROJECT'S LOW VOLTAGE SYSTEMS DEVICE LOCATIONS AND PATHWAY REQUIREMENTS ARE NOT SHOWN ON THE ELECTRICAL 'E' SHEETS. THE ELECTRICAL CONTRACTOR SHALL REFER TO ALL OTHER DISCIPLINE DRAWINGS IN THE CONSTRUCTION SET FOR RELEVANT SYSTEMS INFORMATION AND REQUIREMENTS. FOR INSTANCE, 'FA' SHEETS SHOW FIRE ALARM, 'T' SHEETS SHOW COMMUNICATIONS AND INTERCOM, 'TY' SHEETS SHOW CCTV AND ACCESS CONTROL, 'AV' SHEETS SHOW AUDIO/VISUAL. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL LOW VOLTAGE SUBCONTRACTORS AND IVANCO FOR SYSTEM INFRASTRUCTURE REQUIREMENTS PRIOR TO BID. THE ELECTRICAL CONTRACTOR INSTALLED INFRASTRUCTURE FOR EACH SYSTEM SHALL ALLOW FOR THE LOW VOLTAGE SUBCONTRACTORS TO INSTALL A COMPLETE USABLE SYSTEM.

ROUGH-IN OF ALL LOW VOLTAGE SYSTEM PATHWAYS, JUNCTION BOXES, WALL BOXES, ETC SHALL BE INSTALLED USING THE VENDOR PROVIDED SHOP DRAWINGS (NOT THE DESIGN DRAWINGS). ROUGH-IN OF DEVICES THAT ARE NOT BASED ON SHOP DRAWINGS AND SUBCONTRACTOR COORDINATION WILL BE SUBJECT TO REWORK AT THE CONTRACTORS EXPENSE.

IVANCO WILL INSTALL THE FIRE ALARM AND INTERCOM SYSTEMS (EQUIPMENT AND CABLING ONLY). THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL INFRASTRUCTURE REQUIREMENTS DIRECTLY WITH IVANCO FOR THESE TWO SYSTEMS.

TAMPER PROOF RECEPTACLES

ALL RECEPTACLES INSTALLED IN STUDENT AREAS SHALL BE TAMPER PROOF.

AUDIO VISUAL COORDINATION NOTE

ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ROUGH-IN FOR THE AUDIO VISUAL SYSTEM. THIS IS TO INCLUDE BUT NOT LIMITED TO BACK BOXES, CONDUITS, PULL STRINGS WITHIN ALL CONDUITS, PULL BOXES, BUSHINGS, ETC. ELECTRICAL CONTRACTOR SHALL REFER TO THE AUDIO VISUAL DRAWINGS PRIOR TO BIDDING FOR REQUIREMENTS. OBTAIN OWNER APPROVED A/V VENDOR SHOP DRAWINGS PRIOR TO ROUGH-IN. PROVIDE ALL REQUIRED SYSTEM POWER AND PATHWAYS PER THE APPROVED SHOP DRAWINGS.

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Donald J McCarthy

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Revision:

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Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal: DAVID M. BAGWELL LICENSE No. 59251 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/24

Project No.: 83X98735

Drawing Title: ELECTRICAL LEGEND & GENERAL NOTES

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-001

TAMPER PROOF RECEPTACLES

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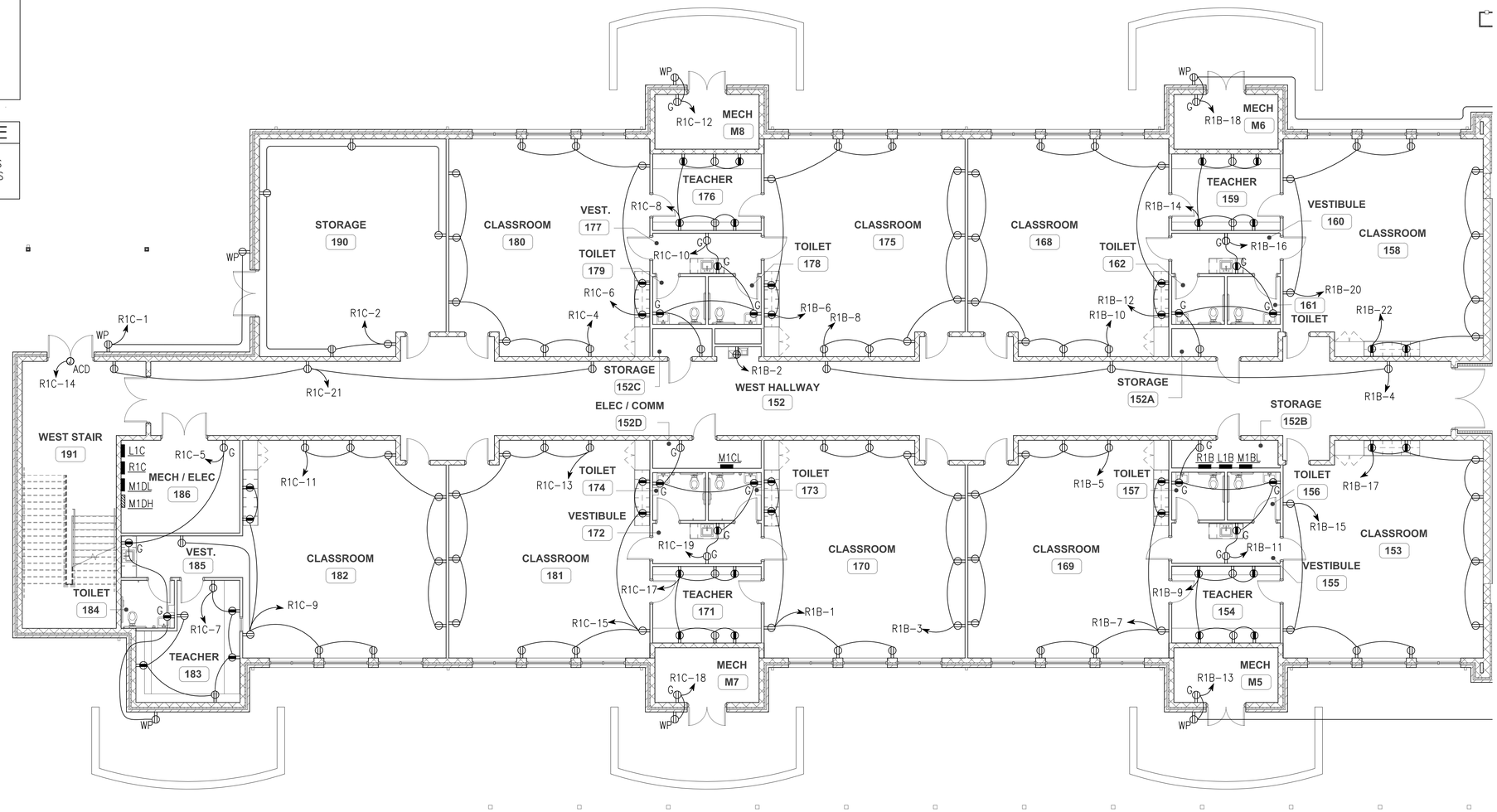
CASEWORK COORDINATE NOTE

FOR SPACES WITH CASEWORK AND RECEPTACLES, ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATIONS OF RECEPTACLES WITH CASEWORK INSTALLER PRIOR TO ROUGH IN. VERIFY MOUNTING HEIGHT OF ALL ABOVE COUNTER RECEPTACLES TO BE 6" ABOVE COUNTER TO CENTERLINE OF RECEPTACLE. VERIFY ALL BELOW COUNTER RECEPTACLE LOCATIONS TO AVOID CONFLICT WITH COUNTER SUPPORTS.

FIRE ALARM COORDINATE NOTE

COORDINATE PATHWAYS TO FIRE ALARM AND ELEVATOR ELEMENTS SUCH AS DUCT DETECTORS, DAMPERS, FLOWS AND TAMPS, ETC. ALSO REFER TO LOW VOLTAGE SYTEMS INFASTRUCTURE COORDINATION NOTE ON SHEET E-001.

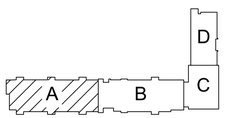


PLAN NORTH

1 E-101

FIRST FLOOR PLAN - POWER AREA "A"

1/8" = 1'-0"



KEY PLAN

NOT TO SCALE

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

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David M Bagwell

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Seal:

DAVID M BAGWELL LICENSE No. 59251 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/24

Project No.: 83X98735

Drawing Title: FIRST FLOOR PLAN - POWER AREA "A"

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-101

TAMPER PROOF RECEPTACLES

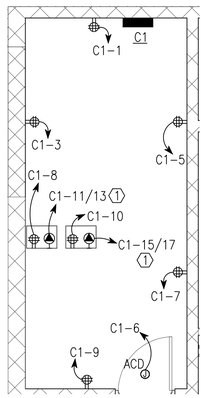
ALL RECEPTACLES INSTALLED IN STUDENT AREAS SHALL BE TAMPER PROOF.

CASEWORK COORDINATE NOTE

FOR SPACES WITH CASEWORK AND RECEPTACLES, ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATIONS OF RECEPTACLES WITH CASEWORK INSTALLER PRIOR TO ROUGH IN. VERIFY MOUNTING HEIGHT OF ALL ABOVE COUNTER RECEPTACLES TO BE 6" ABOVE COUNTER TO CENTERLINE OF RECEPTACLE. VERIFY ALL BELOW COUNTER RECEPTACLE LOCATIONS TO AVOID CONFLICT WITH COUNTER SUPPORTS.

FIRE ALARM COORDINATE NOTE

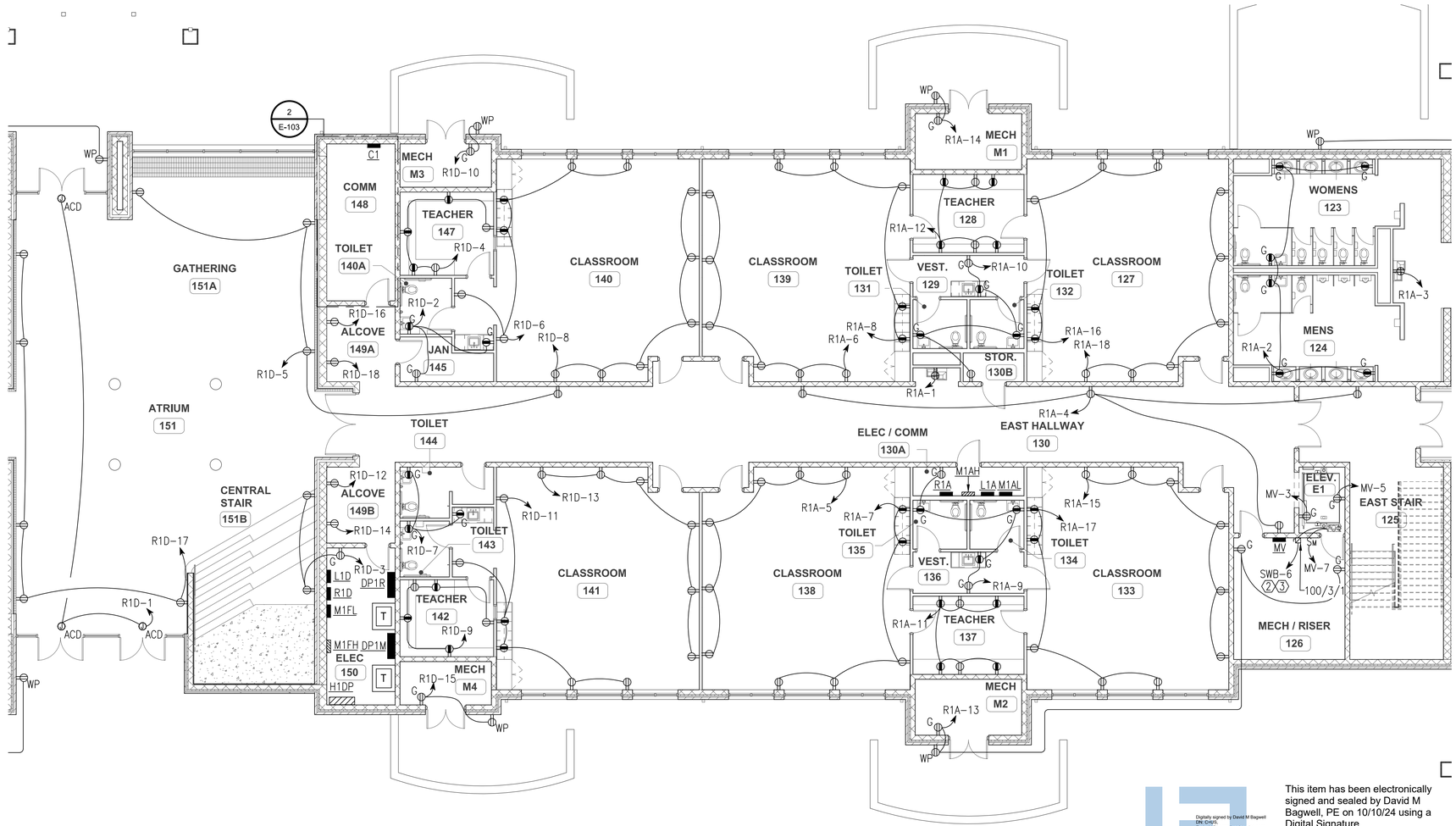
COORDINATE PATHWAYS TO FIRE ALARM AND ELEVATOR ELEMENTS SUCH AS DUCT DETECTORS, DAMPERS, FLOWS AND TAMPS, ETC. ALSO REFER TO LOW VOLTAGE SYTEMS INFASTRUCTURE COORDINATION NOTE ON SHEET E-001.



PLAN NORTH — 2 / E-102 — 1/4" = 1'-0"

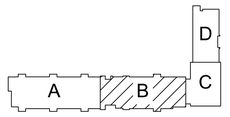
ENLARGED COMM ROOM PLAN - POWER

4' 0' 4' 8'
SCALE: 1/4"=1'-0"



PLAN NORTH — 1 / E-102 — 1/8" = 1'-0"

FIRST FLOOR PLAN - POWER AREA "B"



KEY PLAN
NOT TO SCALE

8' 0' 8' 16'
SCALE: 1/8"=1'-0"

KEYNOTES:

1. INSTALL 2#10 AND 1#10 GROUND IN 3/4" CONDUIT.
2. INSTALL 3#1 AND 1#8 GROUND IN 1 1/2" CONDUIT.
3. COORDINATE EXACT ELEVATOR REQUIREMENTS WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH IN.
4. COORDINATE LOCATIONS OF RECEPTACLES IN THIS SPACE WITH CASEWORK INSTALLER PRIOR TO ROUGH IN. VERIFY MOUNTING HEIGHT OF ALL ABOVE COUNTER RECEPTACLES TO BE 6" ABOVE COUNTER TO CENTERLINE OF RECEPTACLE. VERIFY ALL BELOW COUNTER RECEPTACLE LOCATIONS TO AVOID CONFLICT WITH COUNTER SUPPORTS.

ELEVATOR ELECTRICAL GENERAL NOTES

- ALL 125 VOLT, 15 OR 20 AMPERE SINGLE PHASE RECEPTACLES INSTALLED IN PITS, MACHINERY SPACES, AND ELEVATOR CAR TOPS SHALL BE OF GROUND FAULT CIRCUIT INTERRUPTER (GCFI) TYPE.
- FURNISH A DEDICATED, BALANCED, 3 PHASE, 3 WIRE ELECTRICAL FEEDER SYSTEM WITH A SEPARATE SOLIDLY GROUNDED EQUIPMENT GROUNDING CONDUCTOR TERMINATING IN THE MACHINE ROOM/MACHINE SPACE.SIZE OF THE FEEDERS AND GROUNDING CONDUCTOR TO SUIT ELEVATOR POWER CHARACTERISTICS. FEEDER CONDUCTORS AND GROUNDING CONDUCTOR MUST BE COPPER.
- A FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION FOR EACH ELEVATOR PER THE NATIONAL ELECTRICAL CODE (ANSI/NFPA 70) WITH FEEDER OR BRANCH WIRING TO THE CONTROLLER (NEC 620-51, 620-61(D), AND 620-62 OR CEC RULE 38-013(2)(A)) MUST BE PROVIDED.
- CIRCUIT BREAKERS ARE TO HAVE CURRENT LIMITING CHARACTERISTICS EQUIVALENT TO CLASS RK1 FUSES. FUSES OR CIRCUIT BREAKERS ARE TO BE TIME DELAY TO COVER THE FULL LOAD UP ACCELERATING CURRENT AS LISTED IN THE OTIS CONFIRMATION OF POWER SUPPLY FORM.
- FURNISH A SEPARATE 120 VOLT, 15 AMPERE SINGLE PHASE BRANCH CIRCUIT AND SPST FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION TO SUPPLY THE CAR LIGHTS, RECEPTACLES, AUXILIARY LIGHTING POWER SOURCE, AND VENTILATION ON EACH CAR IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE MUST BE PROVIDED.
- BRANCH CIRCUIT WIRING TO EACH CONTROLLER (NEC 620-53 OR CEC RULE 38-053) MUST BE PROVIDED.
- FOR MACHINE SPACE APPLICATIONS A CONVENIENCE OUTLET LOCATED INSIDE THE MACHINE SPACE DOOR AND A SUITABLE LIGHT LOCATED OUTSIDE THE MACHINE SPACE DOOR ON THE LOCK JAMB SIDE, OF NOT LESS THAN 200 LUX (19FC) AS MEASURED AT FLOOR LEVEL MUST BE PROVIDED PER OTIS LAYOUT. THE MACHINE SPACE LIGHT CIRCUIT SHALL BE A DEDICATED CIRCUIT SEPARATE FROM OTHER LIGHTING CIRCUITS. (NEC 620-23 OR CEC RULE 38-023)
- ELECTRICAL CONTRACTOR SHALL FINALIZE ALL REQUIREMENTS WITH THE ELEVATOR MANUFACTURER/CONTRACTOR PRIOR TO ROUGH-IN. THE CONTRACTORS SHALL PROVIDE ALL REQUIRED DISCONNECTS, DEVICES, WIRE, CONDUIT, AND CABLING FOR A COMPLETE CODE COMPLIANT INSTALLATION.

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FL PE No: 59251
Job Number: 24-007

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M. BAGWELL — LICENSED — No. 59251 — 10/10/24 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
FIRST FLOOR PLAN - POWER AREA "B"

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

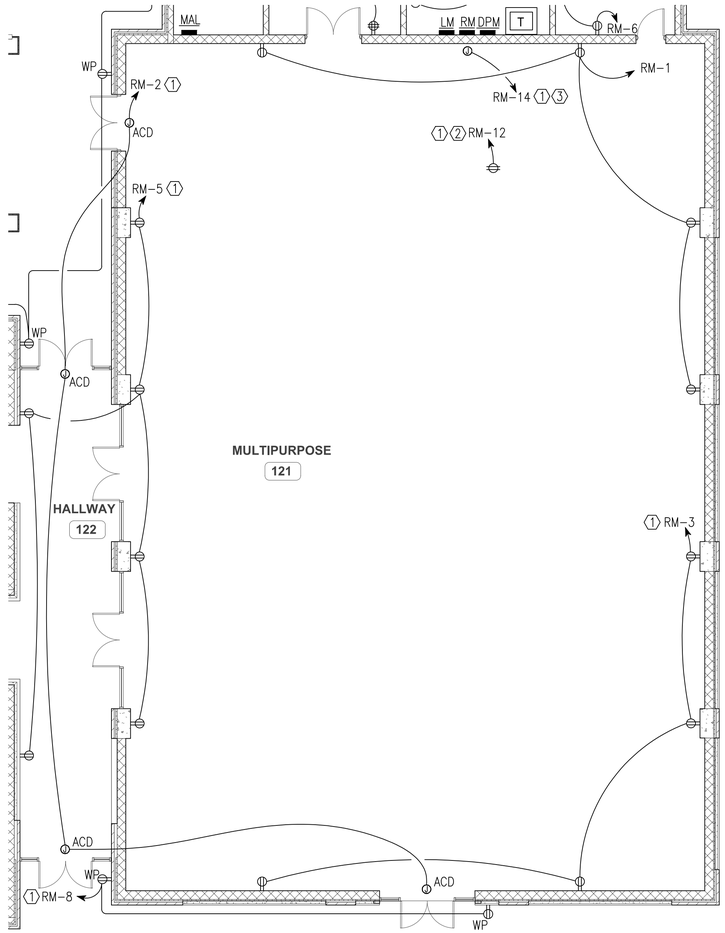
Drawing No.: E-102

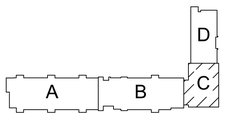
TAMPER PROOF RECEPTACLES

ALL RECEPTACLES INSTALLED IN STUDENT AREAS SHALL BE TAMPER PROOF.

FIRE ALARM COORDINATE NOTE

COORDINATE PATHWAYS TO FIRE ALARM AND ELEVATOR ELEMENTS SUCH AS DUCT DETECTORS, DAMPERS, FLOWS AND TAMPS, ETC. ALSO REFER TO LOW VOLTAGE SYTEMS INFASTRUCTURE COORDINATION NOTE ON SHEET E-001.





KEY PLAN

NOT TO SCALE

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

PLAN NORTH

1 E-103

FIRST FLOOR PLAN - POWER AREA "C"

1/8" = 1'-0"

KEYNOTES:

1. INSTALL 2#10 AND 1#10 GROUND IN 3/4" CONDUIT TO LAST DEVICE IN CIRCUIT.
2. MOUNT RECEPTACLE ADJACENT TO PROJECTOR LOCATION. COORDINATE WITH A/V PLANS FOR EXACT LOCATION.
3. MOUNT RECEPTACLE ADJACENT TO SCREEN LOCATION. INSTALL A 'UP/DOWN/OFF' SWITCH AT 48" AFF FOR SCREEN CONTROL. COORDINATE SCREEN REQUIREMENTS AND LOCATION WITH A/V CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE EXACT LOCATION OF SWITCH WITH JACOBS/TITAN PRIOR TO ROUGH-IN.

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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M. BAGWELL LICENSED PROFESSIONAL ENGINEER No. 59251 10/10/24 STATE OF FLORIDA

Project No.: 83X98735

Drawing Title: FIRST FLOOR PLAN - POWER AREA "C"

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-103

TAMPER PROOF RECEPTACLES

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CASEWORK COORDINATE NOTE

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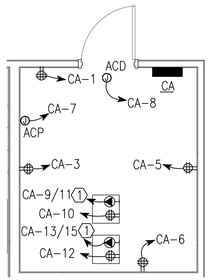
FIRE ALARM COORDINATE NOTE

COORDINATE PATHWAYS TO FIRE ALARM AND ELEVATOR ELEMENTS SUCH AS DUCT DETECTORS, DAMPERS, FLOWS AND TAMPS, ETC. ALSO REFER TO LOW VOLTAGE SYTEMS INFASTRUCTURE COORDINATION NOTE ON SHEET E-001.



PLAN NORTH

2 E-104

ENLARGED COMM ROOM PLAN - POWER

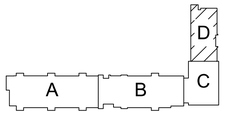
1/4" = 1'-0"

4' 0' 4' 8'

SCALE: 1/4"=1'-0"

KEYNOTES:

1. INSTALL 2#10 AND 1#10 GROUND IN 3/4" CONDUIT TO LAST DEVICE IN CIRCUIT.
2. COORDINATE INSTALLATION OF DEVICES WITH CASEWORK INSTALLER PRIOR TO ROUGH-IN.

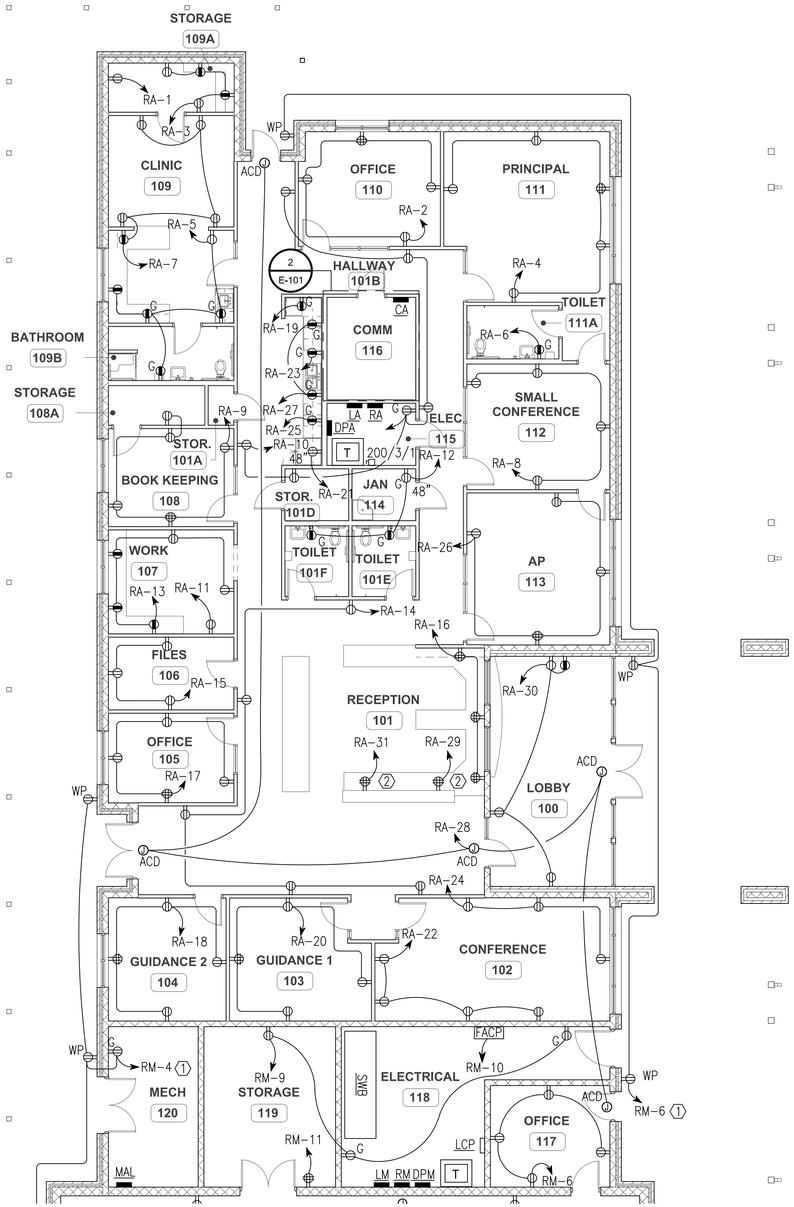


KEY PLAN

NOT TO SCALE

8' 0' 8' 16'

SCALE: 1/8"=1'-0"



PLAN NORTH

1 E-104

FIRST FLOOR PLAN - POWER AREA "D"

1/8" = 1'-0"

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Revision:

Date:	By:	Description:

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Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M. BAGWELL LICENSED PROFESSIONAL ENGINEER No. 59251 10/10/24 STATE OF FLORIDA

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Project No.: 83X98735

Drawing Title:
FIRST FLOOR PLAN - POWER AREA "D"

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-104

TAMPER PROOF RECEPTACLES

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CASEWORK COORDINATE NOTE

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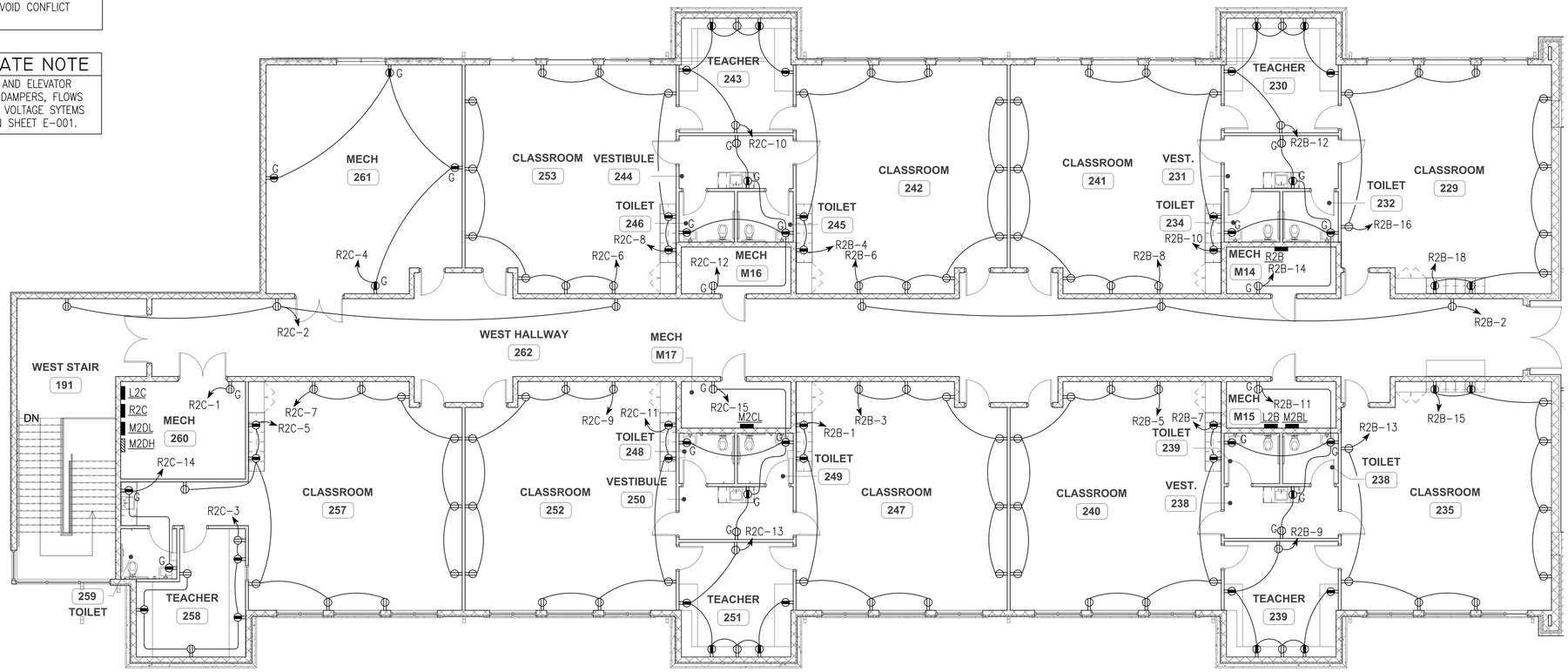
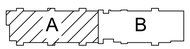


PLAN NORTH

1 / E-105 SECOND FLOOR PLAN - POWER AREA "A

1/8" = 1'-0"



KEY PLAN

NOT TO SCALE

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

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Florida Lic. No. C001942

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216 E. Government St.
Pensacola, FL 32502
Phone: (850) 462 - 8040
FL Authorization No: 30167
FL PE No: 59251
Job Number: 24-007

Revision:

Date:	By:	Description:

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Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY • SCHOOL DISTRICT •

Seal:

DAVID M. BAGWELL LICENSED No. 59251 10/10/24 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
SECOND FLOOR PLAN - POWER AREA "A"

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-105

TAMPER PROOF RECEPTACLES

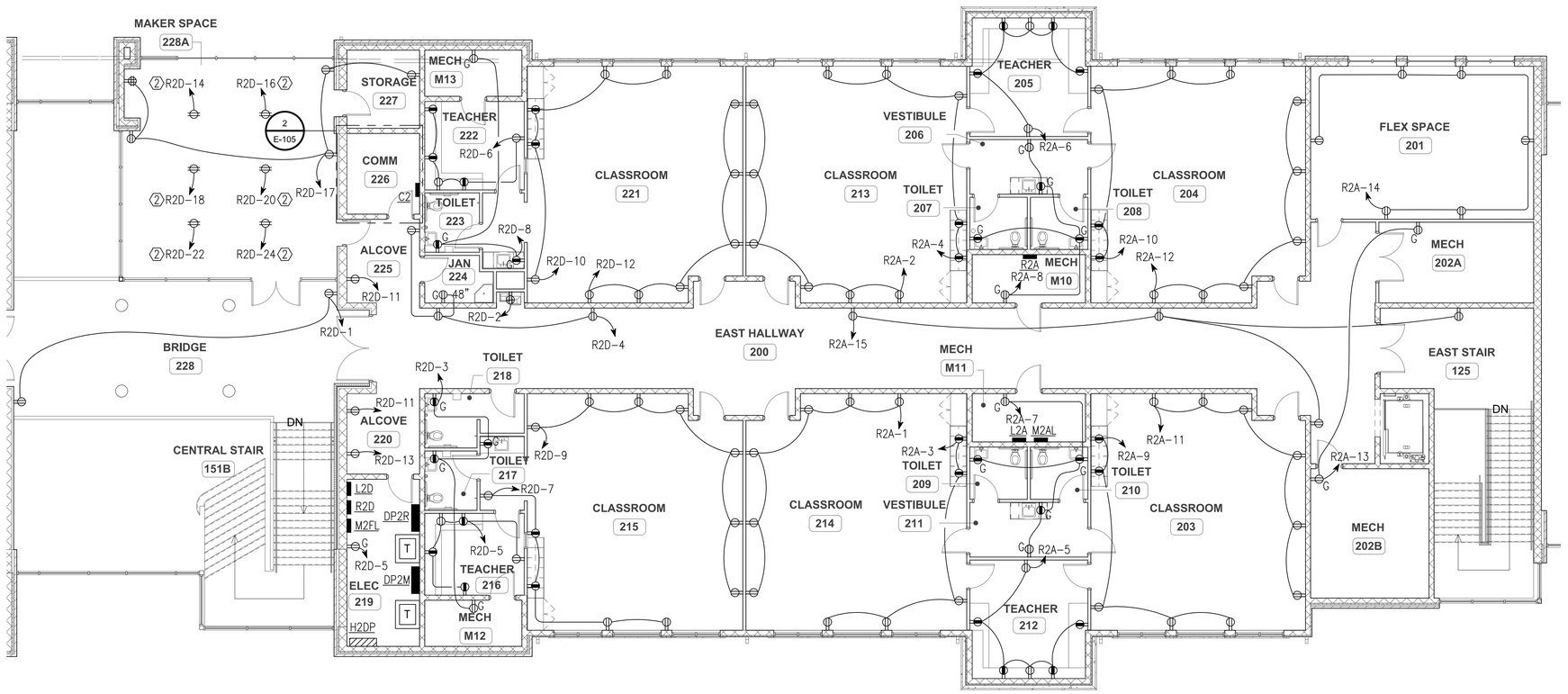
ALL RECEPTACLES INSTALLED IN STUDENT AREAS SHALL BE TAMPER PROOF.

CASEWORK COORDINATE NOTE

FOR SPACES WITH CASEWORK AND RECEPTACLES, ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATIONS OF RECEPTACLES WITH CASEWORK INSTALLER PRIOR TO ROUGH IN. VERIFY MOUNTING HEIGHT OF ALL ABOVE COUNTER RECEPTACLES TO BE 6" ABOVE COUNTER TO CENTERLINE OF RECEPTACLE. VERIFY ALL BELOW COUNTER RECEPTACLE LOCATIONS TO AVOID CONFLICT WITH COUNTER SUPPORTS.

FIRE ALARM COORDINATE NOTE

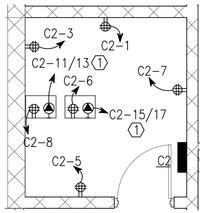
COORDINATE PATHWAYS TO FIRE ALARM AND ELEVATOR ELEMENTS SUCH AS DUCT DETECTORS, DAMPERS, FLOWS AND TAMPS, ETC. ALSO REFER TO LOW VOLTAGE SYTEMS INFASTRUCTURE COORDINATION NOTE ON SHEET E-001.



PLAN NORTH — 1 / E-106

SECOND FLOOR PLAN - POWER AREA "B"

1/8" = 1'-0"



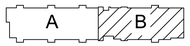
PLAN NORTH — 2 / E-106

ENLARGED COMM ROOM PLAN - POWER

1/4" = 1'-0"

KEYNOTES:

1. INSTALL 2#10 AND 1#10 GROUND IN 3/4" CONDUIT.
2. ELECTRICAL CONTRACTOR TO PROVIDE RETRACTABLE EXTENSION CORD REEL WITH TRIPLE TAP OUTLETS. MOUNT REEL ADJACENT TO CEILING MOUNTED RECEPTACLES. CONNECT REEL TO RECEPTACLE.



KEY PLAN

NOT TO SCALE

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

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Revision:

Date:	By:	Description:

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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

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Date: 2024.11.01 12:54:22-05'00'

Project No.: 83X98735

Drawing Title:
SECOND FLOOR PLAN - POWER AREA "B"

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-106

TAMPER PROOF RECEPTACLES

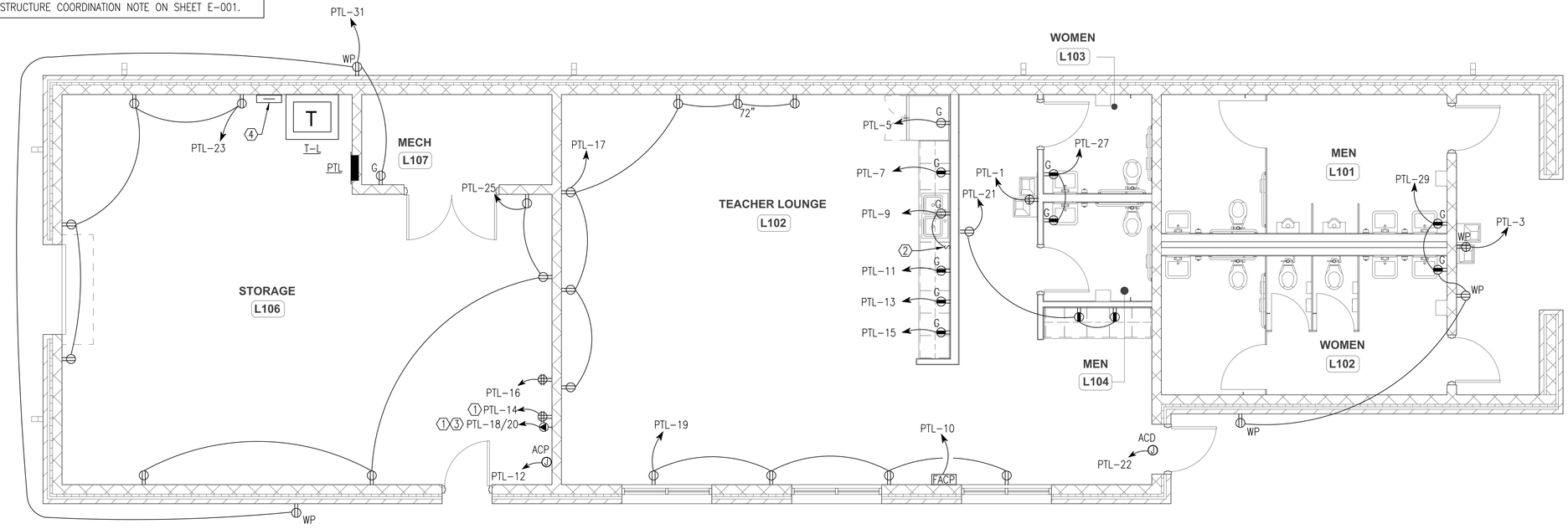
ALL RECEPTACLES INSTALLED IN STUDENT AREAS SHALL BE TAMPER PROOF.

CASEWORK COORDINATE NOTE

FOR SPACES WITH CASEWORK AND RECEPTACLES, ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATIONS OF RECEPTACLES WITH CASEWORK INSTALLER PRIOR TO ROUGH IN. VERIFY MOUNTING HEIGHT OF ALL ABOVE COUNTER RECEPTACLES TO BE 6" ABOVE COUNTER TO CENTERLINE OF RECEPTACLE. VERIFY ALL BELOW COUNTER RECEPTACLE LOCATIONS TO AVOID CONFLICT WITH COUNTER SUPPORTS.

FIRE ALARM COORDINATE NOTE

COORDINATE PATHWAYS TO FIRE ALARM AND ELEVATOR ELEMENTS SUCH AS DUCT DETECTORS, DAMPERS, FLOWS AND TAMPS, ETC. ALSO REFER TO LOW VOLTAGE SYTEMS INFASTRUCTURE COORDINATION NOTE ON SHEET E-001.



KEYNOTES:

1. INSTALL RECEPTACLE WITHIN TELECOMMUNICATIONS CABINET. COORDINATE WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO ROUGH-IN.
2. SWITCH TO CONTROL GARBAGE DISPOSAL RECEPTACLE.
3. INSTALL 2#10 AND 1#10 GROUND IN 3/4" CONDUIT.
4. 125 AMP, 3 POLE, SERVICE ENTRANCE RATED ENCLOSED CIRCUIT BREAKER.

PLAN NORTH

1 / E-107 TEACHERS LOUNGE FLOOR PLAN - POWER

1/4" = 1'-0"

4' 0' 4' 8'
SCALE: 1/4"=1'-0"

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Seal:

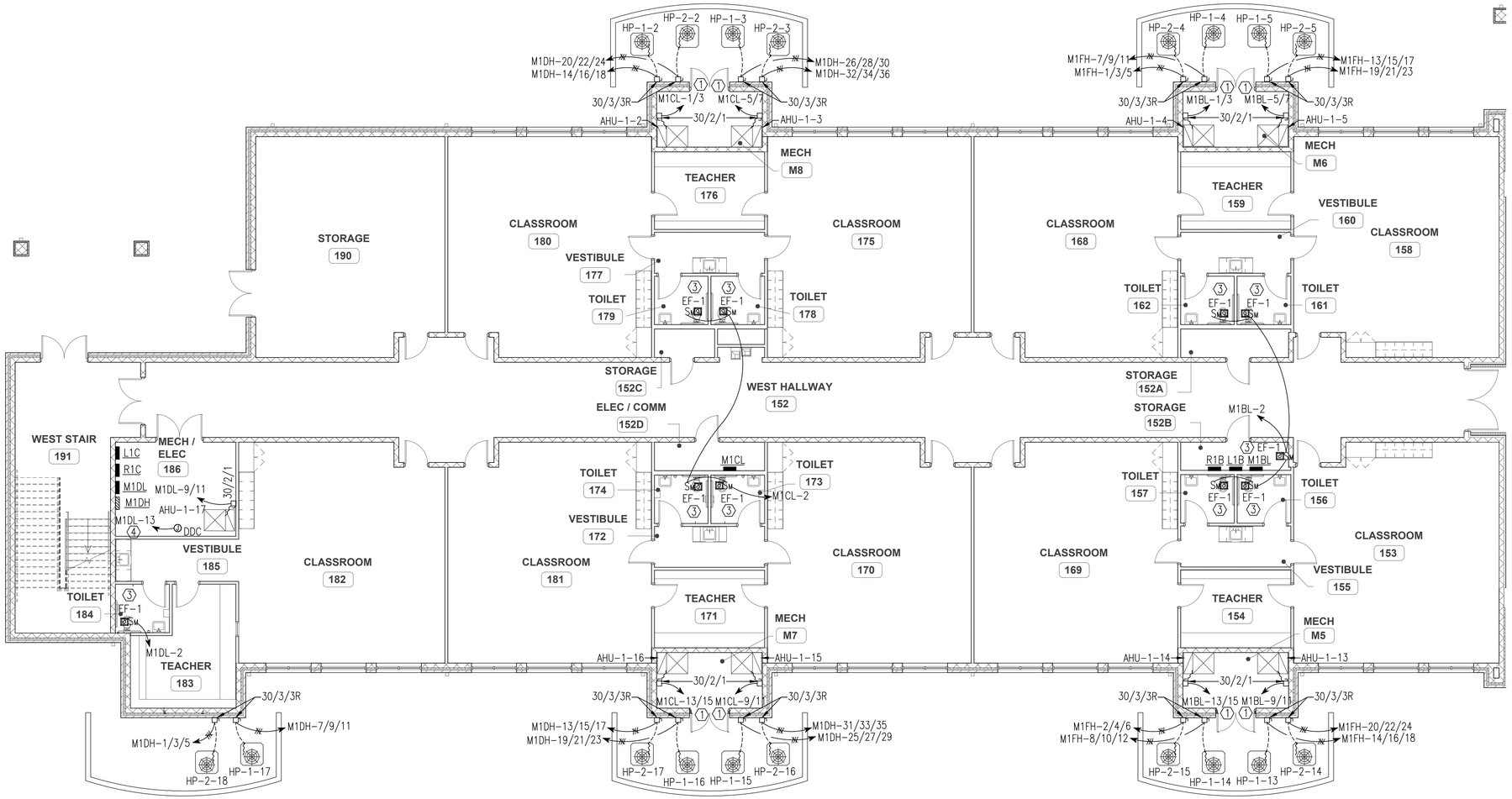
DAVID M. BAGWELL LICENSED PROFESSIONAL No. 59251 10/10/24 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
TEACHERS LOUNGE FLOOR PLAN - POWER

Date: 10 OCTOBER 2024

Designed By:	CTK	*Drawing No.:*	E-107
Drawn By:	CTK		
Checked By:	DMB		



PLAN NORTH

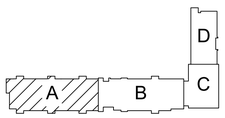
1 E-111

FIRST FLOOR PLAN - MECHANICAL POWER AREA "A"

1/8" = 1'-0"

KEYNOTES:

1. INSTALL 2#10 AND 1#10 GROUND IN 3/4" CONDUIT.
2. NOT USED.
3. EXHAUST FANS SHALL BE CONTROLLED BY THE DDC AND INTERLOCKED WITH OAU. COORDINATED WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.
4. POWER FOR THE DDC CONTROL PANEL. COORDINATE FINAL LOCATION OF PANEL WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.



KEY PLAN

NOT TO SCALE

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

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OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M BAGWELL LICENSE No. 59251 10/10/24 STATE OF FLORIDA PROFESSIONAL ENGINEER

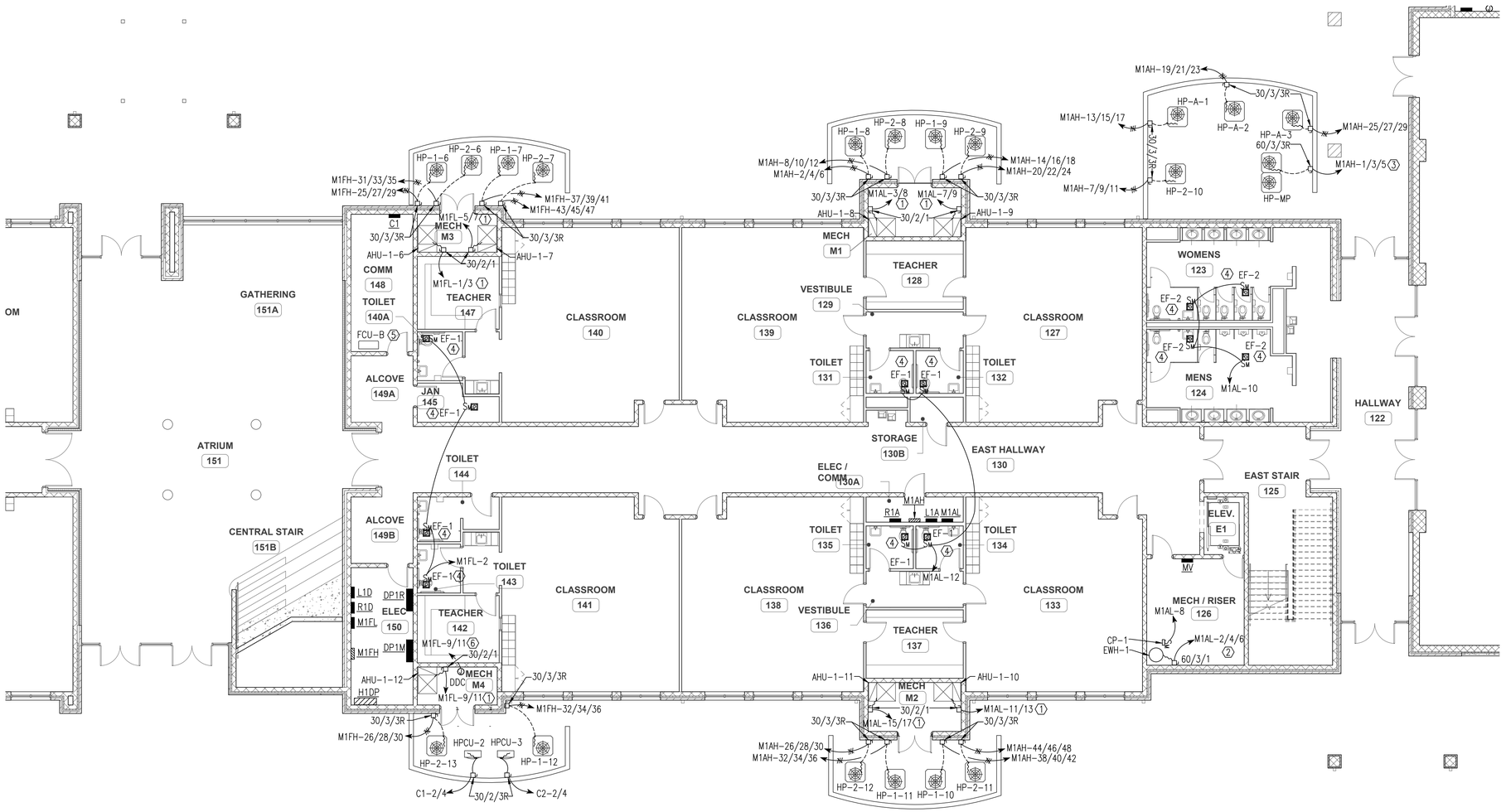
Project No.: 83X98735

Drawing Title:
FIRST FLOOR PLAN - MECHANICAL POWER AREA "A"

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-111



PLAN NORTH

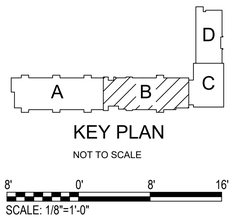
1 / E-112

FIRST FLOOR PLAN - MECHANICAL POWER AREA "B"

1/8" = 1'-0"

KEYNOTES:

1. INSTALL 2#10 AND 1#10 GROUND IN 3/4" CONDUIT.
2. INSTALL 3#8 AND 1#10 GROUND IN 3/4" CONDUIT.
3. INSTALL 3#4 AND 1#10 GROUND IN 1 1/4" CONDUIT.
4. EXHAUST FAN SHALL BE CONTROLLED BY THE DDC AND INTERLOCKED WITH OAU. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.
5. INDOOR UNIT POWERED VIA OUTDOOR UNIT. INSTALL ASSOCIATED WIRE AND CONDUIT PER MANUFACTURERS REQUIREMENTS.
6. POWER FOR THE DDC CONTROL PANEL. COORDINATE FINAL LOCATION OF PANEL WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.



KEY PLAN

NOT TO SCALE

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

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Job Number: 24-007

Revision:

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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M BAGWELL LICENSE No. 59251 10/10/24 STATE OF FLORIDA PROFESSIONAL ENGINEER

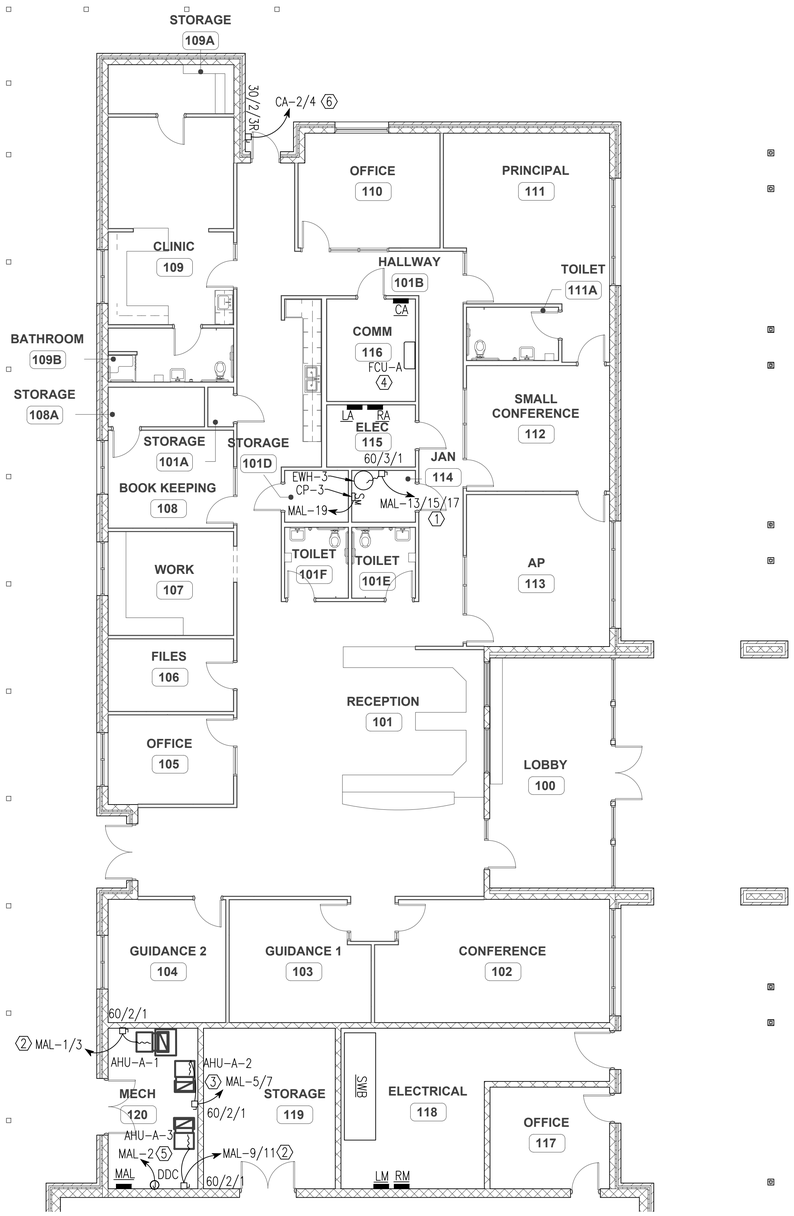
Project No.: 83X98735

Drawing Title: FIRST FLOOR PLAN - MECHANICAL POWER AREA "B"

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-112



PLAN NORTH

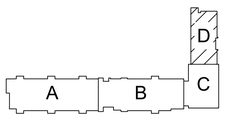
1 E-113

FIRST FLOOR PLAN - MECHANICAL POWER AREA "D"

1/8" = 1'-0"

KEYNOTES:

1. INSTALL 3#8 AND 1#10 GROUND IN 3/4" CONDUIT.
2. INSTALL 2#6 AND 1#10 GROUND IN 1" CONDUIT.
3. INSTALL 2#4 AND 1#10 GROUND IN 1" CONDUIT.
4. INDOOR UNIT POWERED VIA OUTDOOR UNIT. INSTALL ASSOCIATED WIRE AND CONDUIT PER MANUFACTURER'S REQUIREMENTS.
5. POWER FOR THE DDC CONTROL PANEL. COORDINATE FINAL LOCATION OF PANEL WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
6. CONDENSING UNIT IS INSTALLED ABOVE THE DOOR AND ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN. ASSOCIATED DISCONNECT SHALL BE WITHIN LINE OF SIGHT.



KEY PLAN

NOT TO SCALE

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

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Date:	By:	Description:

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Okaloosa County School District
Okaloosa County, Florida

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Donald J McCarthy

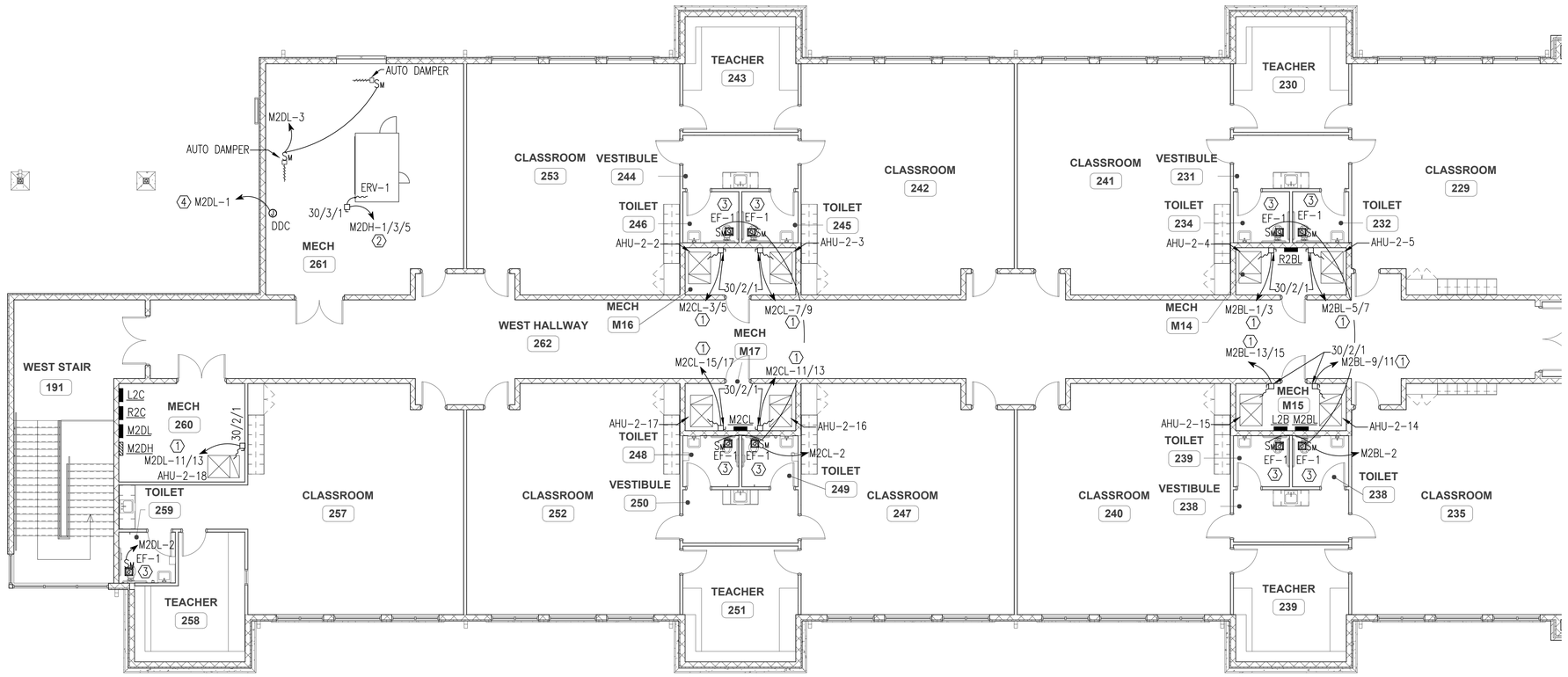
Project No.: 83X98735

Drawing Title:
FIRST FLOOR PLAN - MECHANICAL POWER AREA "D"

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-113



PLAN NORTH

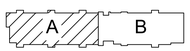
1
E-114

SECOND FLOOR PLAN - MECHANICAL POWER AREA "A"

1/8" = 1'-0"

KEYNOTES:

1. INSTALL 2#10 AND 1#10 GROUND IN 3/4" CONDUIT.
2. INSTALL 3#10 AND 1#10 GROUND IN 3/4" CONDUIT.
3. EXHAUST FANS SHALL BE CONTROLLED BY THE DDC AND INTERLOCKED WITH OAU. COORDINATED WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.
4. POWER FOR THE DDC CONTROL PANEL. COORDINATE FINAL LOCATION OF PANEL WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.



KEY PLAN

NOT TO SCALE

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

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Revision:

Date:	By:	Description:

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Okaloosa County, Florida

OKALOOSA COUNTY • SCHOOL DISTRICT •

Seal:

DAVID M. BAGWELL LICENSED PROFESSIONAL ENGINEER No. 59251 10/10/24 STATE OF FLORIDA PROFESSIONAL ENGINEER

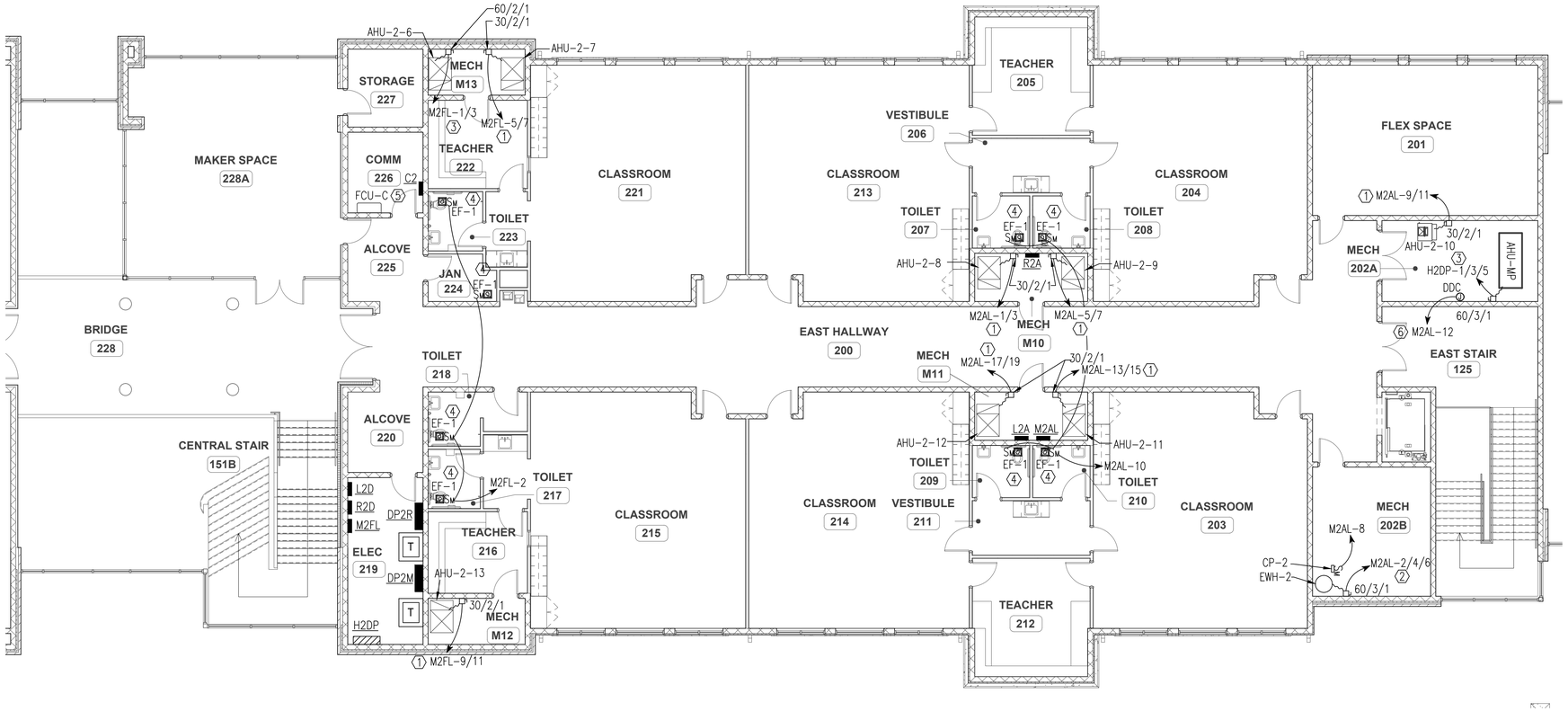
Project No.: 83X98735

Drawing Title:
SECOND FLOOR PLAN - MECHANICAL POWER AREA "A"

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-114



PLAN NORTH

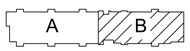
1 E-115

SECOND FLOOR PLAN - MECHANICAL POWER AREA "B"

1/8" = 1'-0"

KEYNOTES:

1. INSTALL 2#10 AND 1#10 GROUND IN 3/4" CONDUIT.
2. INSTALL 3#8 AND 1#10 GROUND IN 3/4" CONDUIT.
3. INSTALL 3#4 AND 1#10 GROUND IN 1 1/4" CONDUIT.
4. EXHAUST FANS SHALL BE CONTROLLED BY THE DDC AND INTERLOCKED WITH OAU. COORDINATED WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.
5. INDOOR UNIT POWERED VIA OUTDOOR UNIT. INSTALL ASSOCIATED WIRE AND CONDUIT PER MANUFACTURERS REQUIREMENTS.
6. POWER FOR THE DDC CONTROL PANEL. COORDINATE FINAL LOCATION OF PANEL WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.



KEY PLAN

NOT TO SCALE

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

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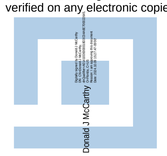

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Okaloosa County, Florida

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Seal:

DAVID M. BAGWELL LICENSE NO. 59251 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/24

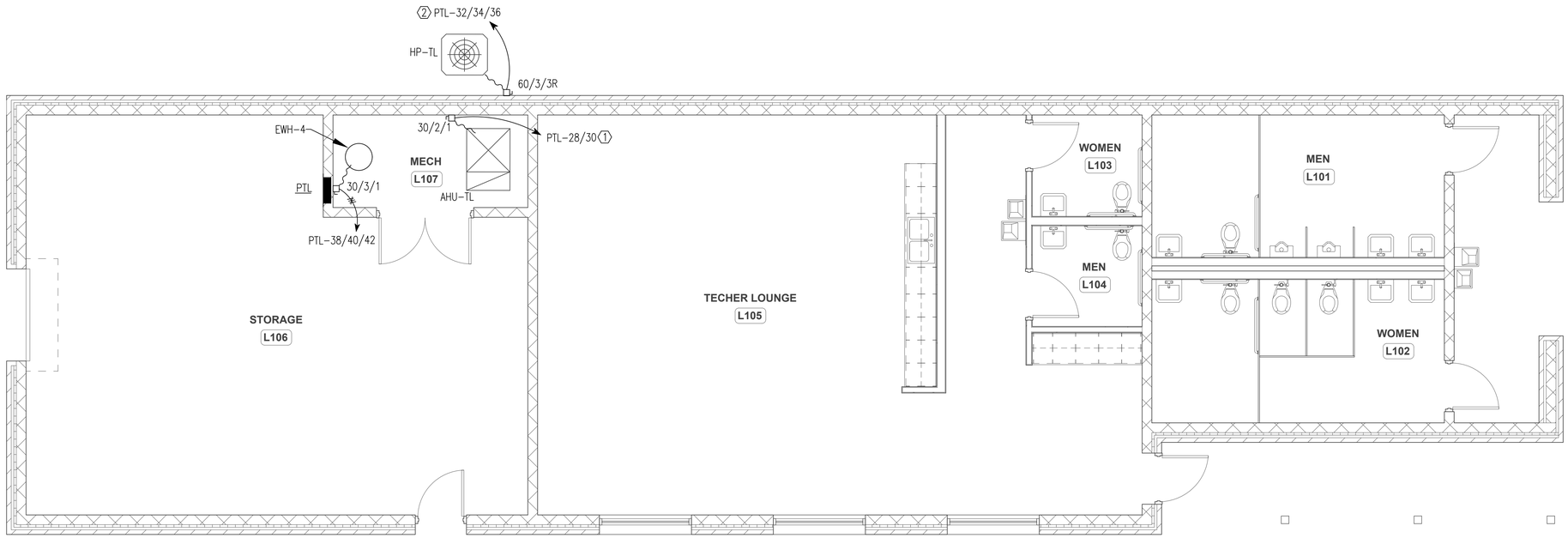
Project No.: 83X98735

Drawing Title:
SECOND FLOOR PLAN - MECHANICAL POWER AREA "B"

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-115



PLAN NORTH

1 E-116

TEACHERS LOUNGE FLOOR PLAN - MECHANICAL POWER

1/4" = 1'-0"

KEYNOTES:

1. INSTALL 2#10 AND 1#10 GROUND IN 3/4" CONDUIT.
2. INSTALL 3#8 AND 1#10 GROUND IN 3/4" CONDUIT.

4' 0' 4' 8'

SCALE: 1/4"=1'-0"

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FL Authorization No: 30167
FL PE No: 59251
Job Number: 24-007

Revision:

Date:	By:	Description:

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3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY • SCHOOL DISTRICT •

Seal:

DAVID M. BAGWELL LICENSE No. 59251 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/24

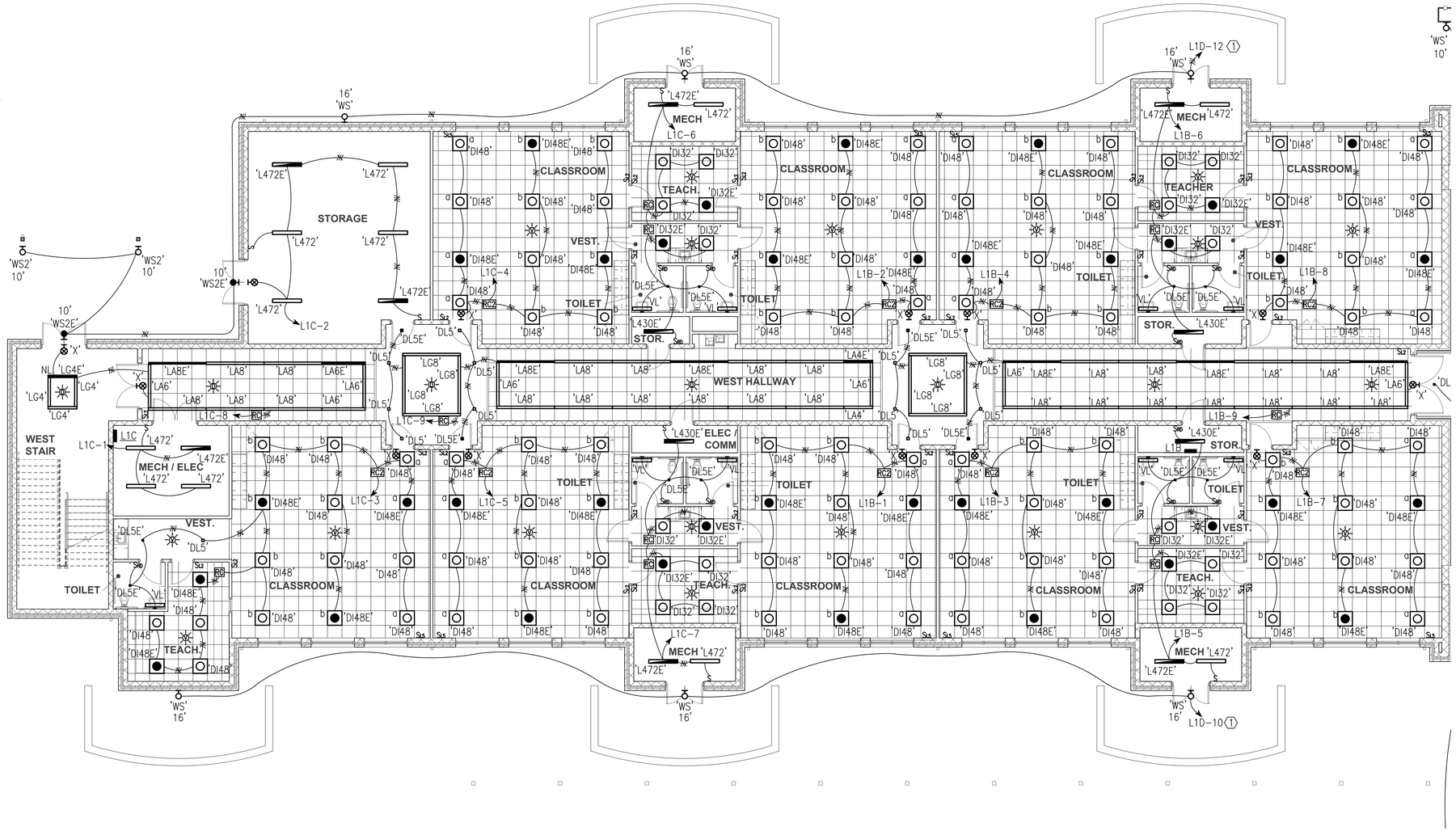
Project No.: 83X98735

Drawing Title:
TEACHERS LOUNGE FLOOR PLAN - MECHANICAL POWER

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-116



PLAN NORTH

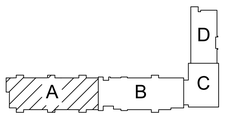
1 E-121

FIRST FLOOR PLAN LIGHTING AREA "A

1/8" = 1'0"

KEYNOTES:

1. 2#10, 1#10 GROUND IN 3/4" CONDUIT. ROUTE CIRCUIT THROUGH CLASSROOM BUILDING LIGHTING CONTACTOR. SEE CLASSROOM BUILDING EXTERIOR LIGHTING CONTROL DETAIL SHEET E-504.



KEY PLAN

NOT TO SCALE

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

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OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M BAGWELL CORPORATE SEAL No. 59251 10/10/24 STATE OF FLORIDA PROFESSIONAL ENGINEER

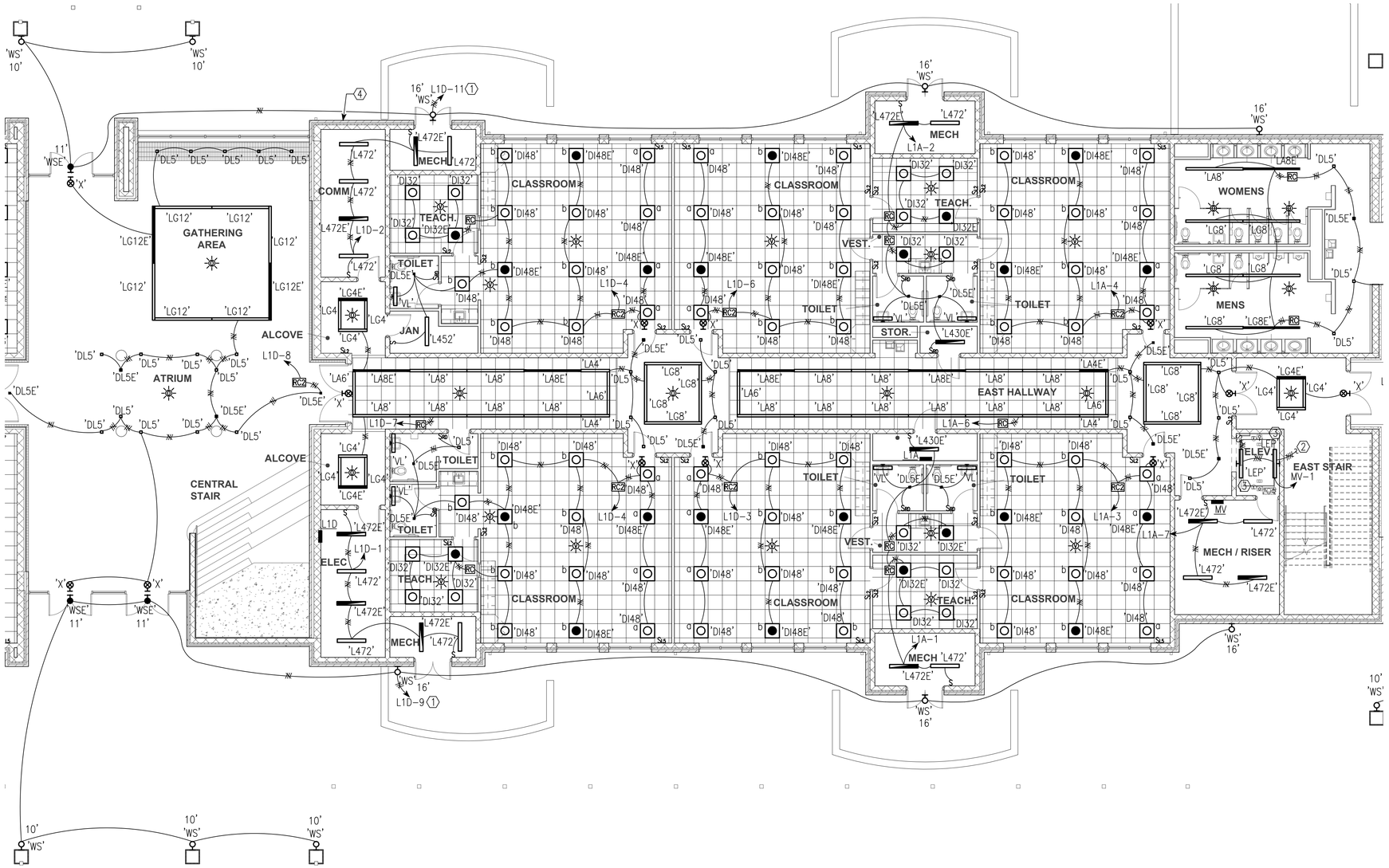
Project No.: 83X98735

Drawing Title:
FIRST FLOOR PLAN LIGHTING AREA "A"

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-121



PLAN NORTH

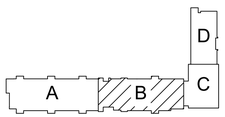
1 E-122

FIRST FLOOR PLAN LIGHTING AREA "B"

1/8" = 1'0"

KEYNOTES:

1. 2#10, 1#10 GROUND IN 3/4" CONDUIT. ROUTE CIRCUIT THROUGH CLASSROOM BUILDING LIGHTING CONTACTOR. SEE CLASSROOM BUILDING EXTERIOR LIGHTING CONTROL DETAIL SHEET E-504.
2. CONNECT TO LIGHTING CIRCUIT IN ELEVATOR SHAFT ON 2ND FLOOR LEVEL. (SEE SHEET E-125).
3. INSTALL BOTTOM OF LIGHT FIXTURE 4' ABOVE PIT FLOOR.
4. APPROXIMATE LOCATION OF PHOTOCELL. INSTALL PHOTOCELL ORIENTED FACING NORTH. AVOID INSTALLING WHERE AFFECTED BY ARTIFICIAL LIGHT SOURCES.



KEY PLAN

NOT TO SCALE

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

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Okaloosa County, Florida

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Seal:

DAVID M. BAGWELL LICENSED PROFESSIONAL ENGINEER No. 59251 10/10/24 STATE OF FLORIDA

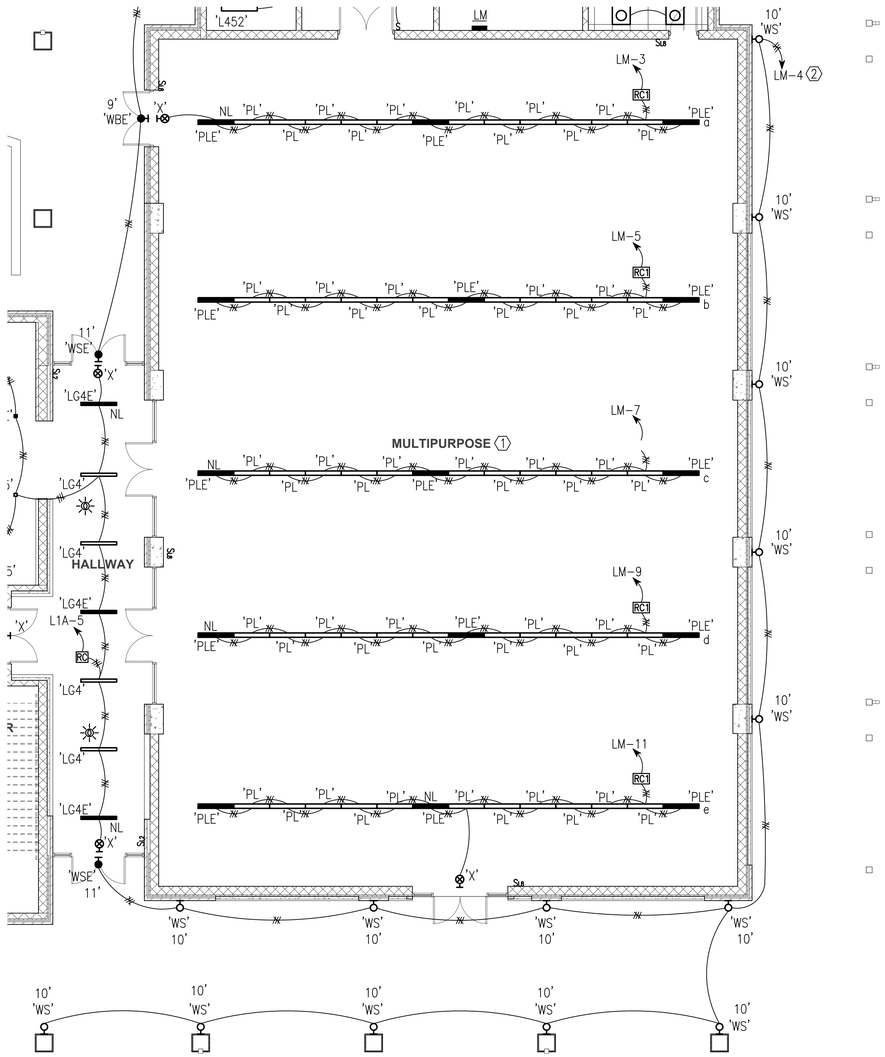
Project No.: 83X98735

Drawing Title: FIRST FLOOR PLAN LIGHTING AREA "B"

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-122



KEY PLAN

NOT TO SCALE

SCALE: 1/8"=1'-0"

PLAN NORTH

1 E-123

FIRST FLOOR PLAN LIGHTING AREA "C"

1/8" = 1'0"

KEYNOTES:

(1) COORDINATE LOCATION AND MOUNTING HEIGHTS OF FIXTURES IN THIS AREA WITH THE SUSPENDED METAL ACOUSTIC PANEL SYSTEM. FIXTURES SHALL BE PLACED BETWEEN PANELS WITH BOTTOM OF FIXTURES EVEN WITH BOTTOM OF PANELS.

(2) 2#10, 1#10 GROUND TO LAST FIXTURE IN CIRCUIT. ROUTE CIRCUIT THROUGH ADMIN BUILDING LIGHTING CONTACTOR. SEE ADMIN BUILDING LIGHTING CONTROL DIAGRAM SHEET E-504.

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Seal:

DAVID M. BAGWELL LICENSED PE No. 59251 10/10/24 STATE OF FLORIDA PROFESSIONAL ENGINEER

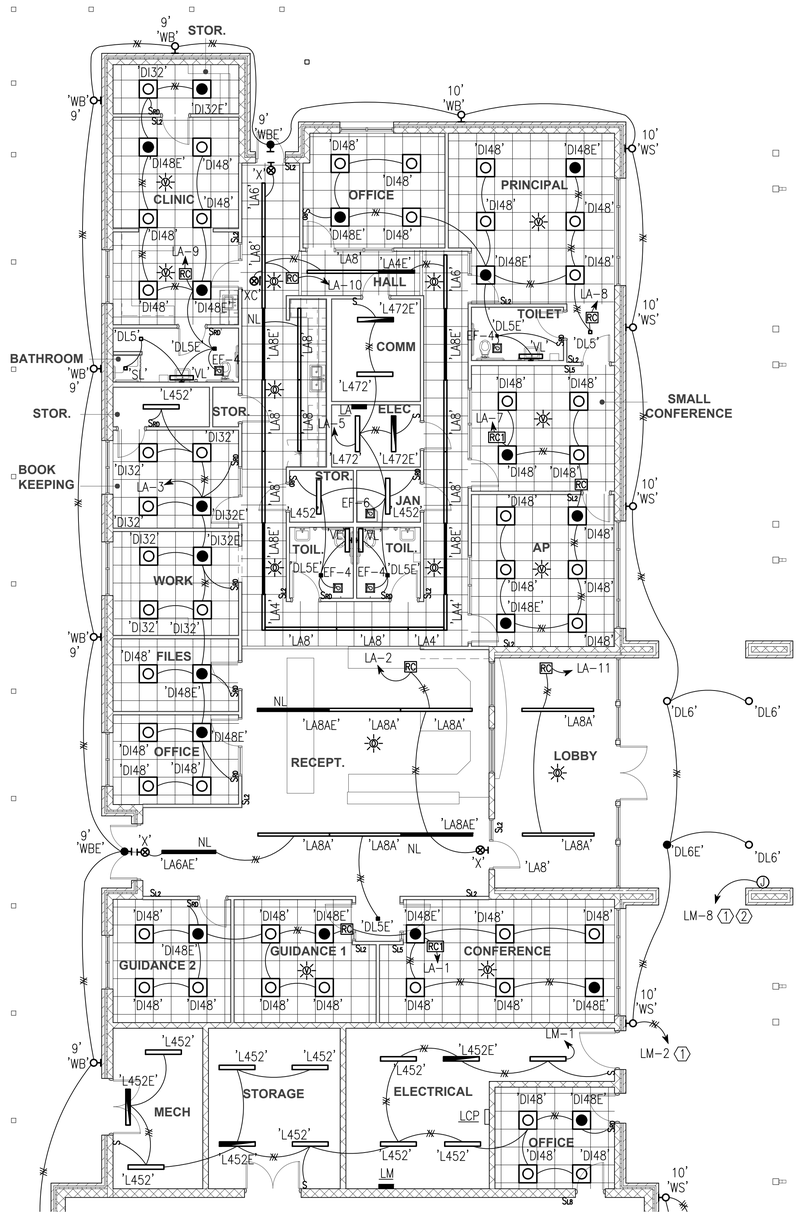
Project No.: 83X98735

Drawing Title: FIRST FLOOR PLAN LIGHTING AREA "C"

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

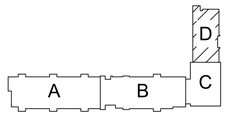
Drawing No.: E-123



PLAN NORTH

1 E-124 FIRST FLOOR PLAN LIGHTING AREA "D"

1/8" = 1'0"



KEY PLAN

NOT TO SCALE

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

KEYNOTES:

1. 2#10, 1#10 GROUND TO LAST FIXTURE IN CIRCUIT. ROUTE CIRCUIT THROUGH THROUGH ADMIN BUILDING LIGHTING CONTACTOR. SEE ADMIN BUILDING LIGHTING CONTROL DIAGRAM SHEET E-504.
2. POWER FOR EXTERIOR LIGHTING SIGN.

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STATE OF FLORIDA
PROFESSIONAL ENGINEER
10/10/24

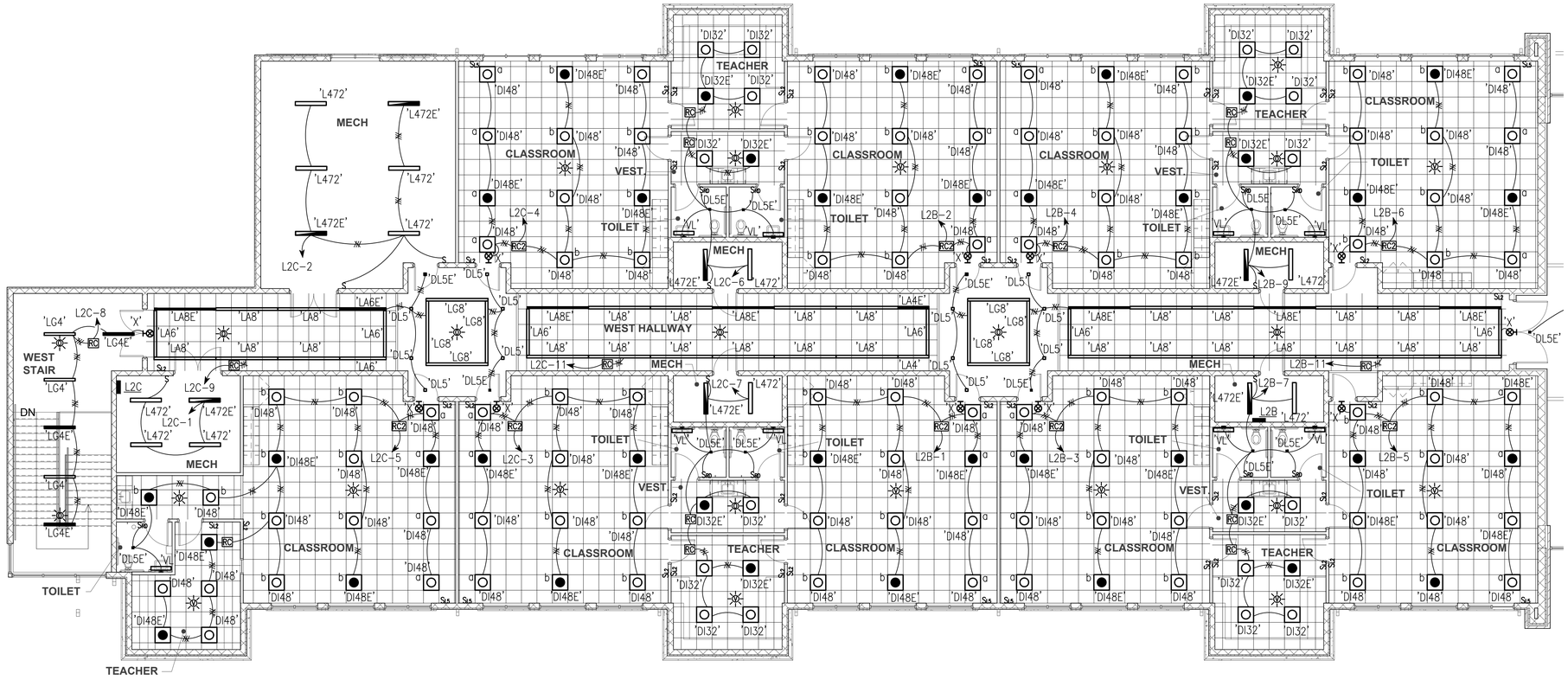
Project No.: 83X98735

Drawing Title:
FIRST FLOOR PLAN LIGHTING AREA "D"

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-124

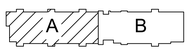


PLAN NORTH

1 E-125

SECOND FLOOR PLAN LIGHTING AREA "A"

1/8" = 1'0"



KEY PLAN

NOT TO SCALE

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

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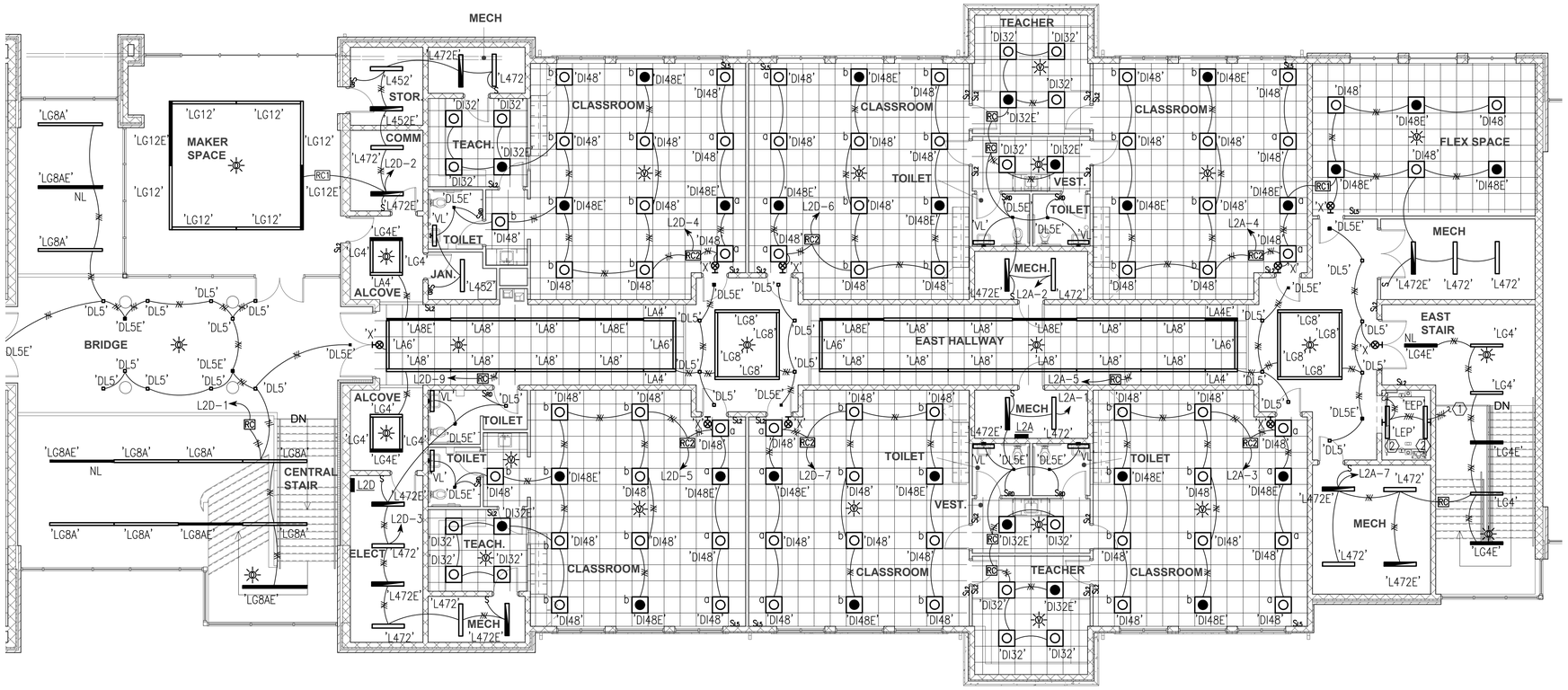
Project No.: 83X98735

Drawing Title:
SECOND FLOOR PLAN LIGHTING AREA "A"

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-125



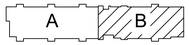
PLAN NORTH

1 E-126 SECOND FLOOR PLAN LIGHTING AREA "B"

1/8" = 1'0"

KEYNOTES:

1. CONNECT TO LIGHTING CIRCUIT IN ELEVATOR SHAFT ON 2ND FLOOR LEVEL. (SEE SHEET E-123).
2. COORDINATE MOUNTING HEIGHT OF LIGHTS WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.



KEY PLAN

NOT TO SCALE

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

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DAVID M. BAGWELL
LICENSE
No. 59251
STATE OF FLORIDA
PROFESSIONAL ENGINEER
10/10/24

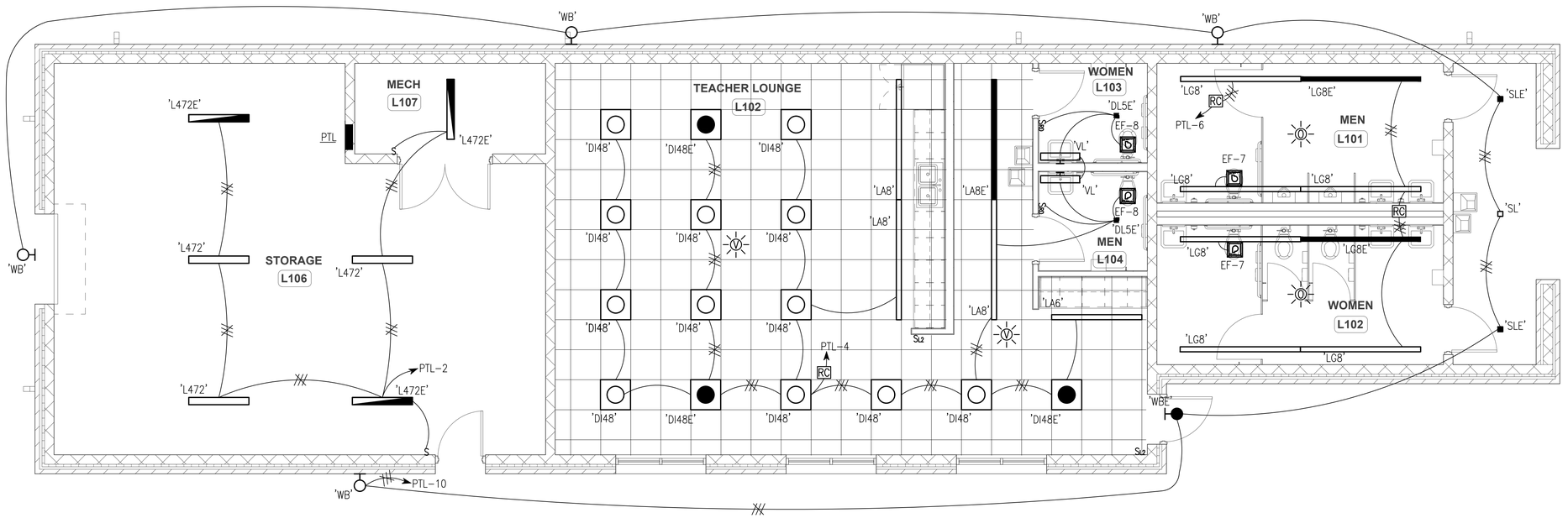
Project No.: 83X98735

Drawing Title:
SECOND FLOOR PLAN LIGHTING AREA "B"

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-126



PLAN NORTH

1
E-127

TEACHERS LOUNGE FLOOR PLAN - LIGHTING

1/4" = 1'0"

4' 0' 4' 8'
SCALE: 1/4"=1'-0"

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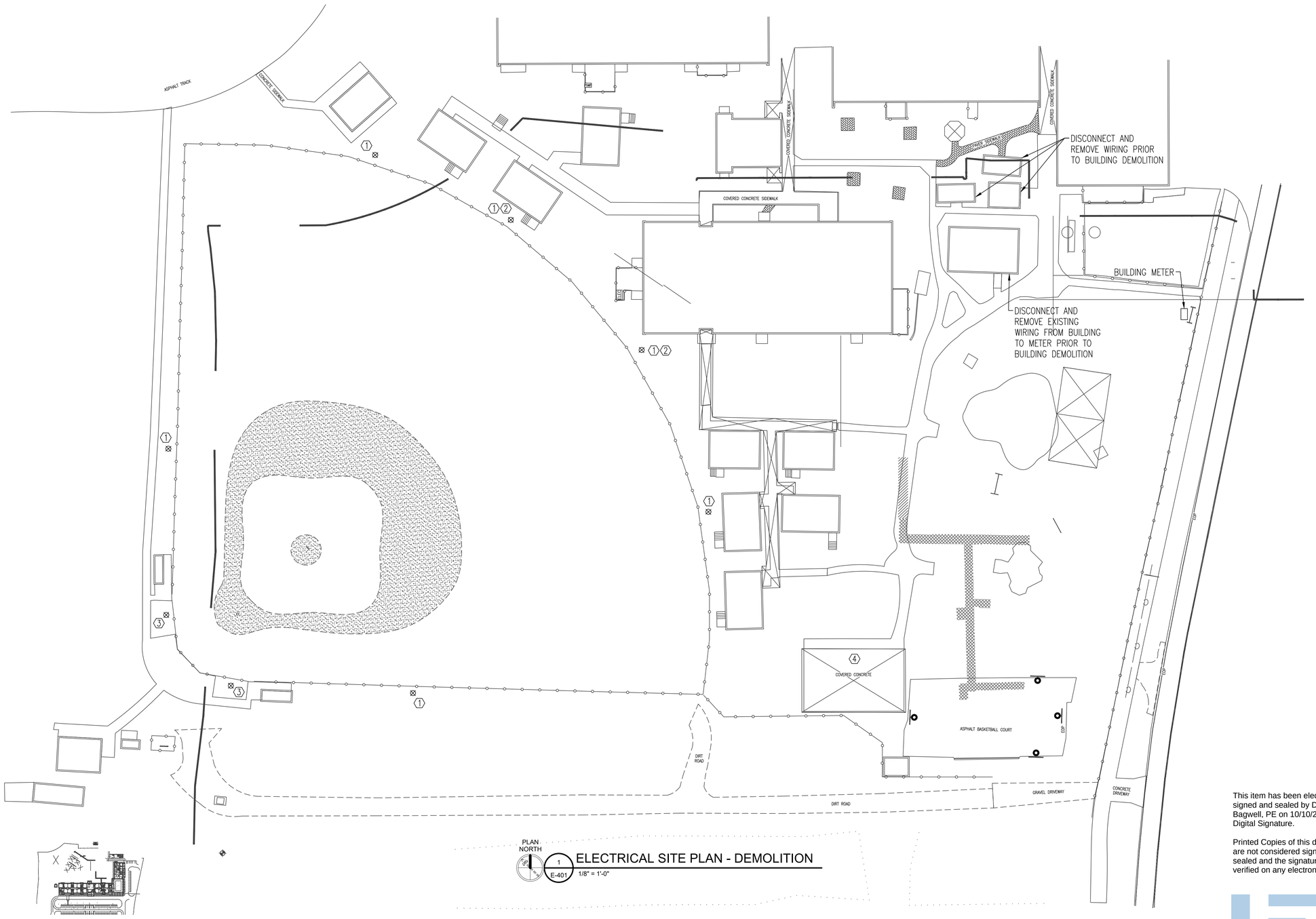
Project No.: 83X98735

Drawing Title:
TEACHERS LOUNGE FLOOR PLAN - LIGHTING

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-127



ELECTRICAL SITE PLAN - DEMOLITION
1/8" = 1'-0"

KEYNOTES:

1. EXISTING POLE SHALL BE DEMOLISHED, POLE MOUNTED LIGHTING FIXTURES SHALL BE REMOVED AND SALVAGED TO OWNER. EXISTING CONDUIT SERVING POLE SHALL BE CUT OFF A MINIMUM OF 18" BELOW GRADE. EXISTING CONDUCTORS SHALL BE REMOVED BACK TO SOURCE.
2. THIS POLE CURRENTLY SUPPORTING INTERCOM CABLES TO THE PORTABLES. POLE SHALL BE DEMOLISHED AT THE END OF CONSTRUCTION. COORDINATE WITH JACOBS TITAN FOR PHASING.
3. EXISTING POLE AND PANELBOARD SHALL BE DEMOLISHED. POLE MOUNTED LIGHTING FIXTURES SHALL BE REMOVED AND AND SALVAGED TO OWNER. EXISTING CONDUIT SERVING POLE SHALL BE CUT OFF A MINIMUM OF 18" BELOW GRADE. EXISTING CONDUIT SERVING POLE SHALL BE CUT OFF A MINIMUM OF 18" BELOW GRADE. EXISTING CONDUCTORS SHALL BE REMOVED BACK TO SERVING PANELBOARD. BREAKER SERVING PANELBOARD SHALL BE TURNED TO OFF POSITION AND LABELED AS SPARE.
4. EXISTING PAVILION SHALL BE DEMOLISHED. ELECTRICAL CONTRACTOR SHALL DISCONNECT FEEDER TO PANELBOARD AND MAKE SAFE FOR DEMOLITION. EXISTING CONDUIT SHALL BE CUT OFF AT A MINIMUM OF 18" BELOW GRADE. EXISTING CONDUCTORS SHALL BE REMOVED BACK TO SERVING PANELBOARD. BREAKER SERVING PAVILION SHALL BE TURNED TO THE OFF POSITION AND LABELED AS SPARE.

SCALE: 1"=30'-0"

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Date:	By:	Description:

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3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal:
DAVID M. BAGWELL LICENSED No. 59251 10/10/24 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
ELECTRICAL SITE PLAN - DEMOLITION

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-401

BUILDING MOUNTED LIGHTING NOTE

REFER TO SHEETS E-122, E-123, E-124 AND E-127 FOR ALL BUILDING MOUNTED EXTERIOR FIXTURES.

PROPOSED PERMANANT COVERED PLAY AREA

EXIST PORTABLES

PROPOSED PORTABLE TEMPORARY RELOCATION AREA

ENCLOSED BREAKER

PANEL PTL

UNDERGROUND FEEDER – REFER TO FIRST FLOOR POWER RISER DIAGRAM SHEET E-601

UNDERGROUND PRIMARY BY UTILITY COMPANY

UNDERGROUND SECONDARY BY CONTRACTOR

'CL' L1D-14 (4)

MAIN ELECTRICAL SWITCHBOARD

PAD MOUNT TRANSFORMER INSTALLED BY UTILITY COMPANY; COORDINATE FINAL LOCATION OF TRANSFORMER AND METER WITH UTILITY COMPANY PRIOR TO INSTALLING CONDUITS

PANEL L1D

PANEL H1DP

'BL' L1D-13 (4)

(2) H1DP-26 'FL'

(5) 'SP1'

'SP2' H1DP-22/24 (2)

H1DP-18/20 (2)

'SP1' H1DP-14/16 (3)

'PL1'

SEE CONTINUATION ON SHEET E-403

PLAN NORTH

1 E-402

ELECTRICAL SITE PLAN - NEW WORK

1" = 30'-0"

30' 0' 30' 60'

SCALE: 1"=30'-0"

KEYNOTES:

1. INSTALL 2#10 AND 1#10 GROUND IN 3/4" CONDUIT TO FURTHEST DEVICE IN CIRCUIT. ROUTE CIRCUIT THROUGH CLASSROOM BUILDING LIGHTING CONTACTOR. SEE CLASSROOM EXTERIOR BUILDING MOUNTED LIGHTING CONTROL DETAIL SHEET E-504.
2. INSTALL 2#10 AND 1#10 GROUND IN 1" CONDUIT TO FURTHEST DEVICE IN CIRCUIT. ROUTE CIRCUIT THROUGH PARKING LOT LIGHTING CONTACTOR. SEE PARKING LOT LIGHTING CONTROL DETAIL SHEET E-403.
3. INSTALL 2#8 AND 1#8 GROUND IN 1" CONDUIT TO FURTHEST DEVICE IN CIRCUIT. ROUTE CIRCUIT THROUGH PARKING LOT LIGHTING CONTACTOR. SEE PARKING LOT LIGHTING CONTROL DETAIL SHEET E-403.
4. 2#10, 1#10 GROUND IN 3/4" CONDUIT TO LAST FIXTURE IN CIRCUIT. ROUTE CIRCUIT THROUGH THROUGH ADMIN BUILDING LIGHTING CONTACTOR. SEE ADMIN BUILDING LIGHTING CONTROL DIAGRAM SHEET E-504.
5. PROVIDE FIXTURE WITH HOUSE-SIDE SHIELD.

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Seal:

DAVID M BAGWELL LICENSE No. 59251 10/10/24 STATE OF FLORIDA PROFESSIONAL ENGINEER

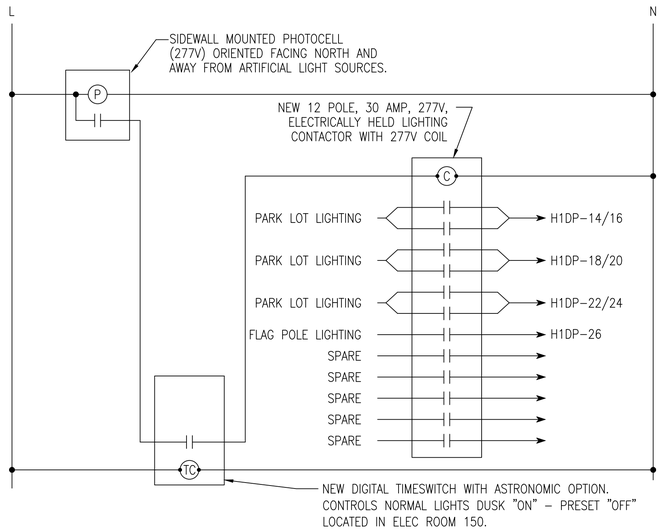
Project No.: 83X98735

Drawing Title:
ELECTRICAL SITE PLAN - NEW WORK

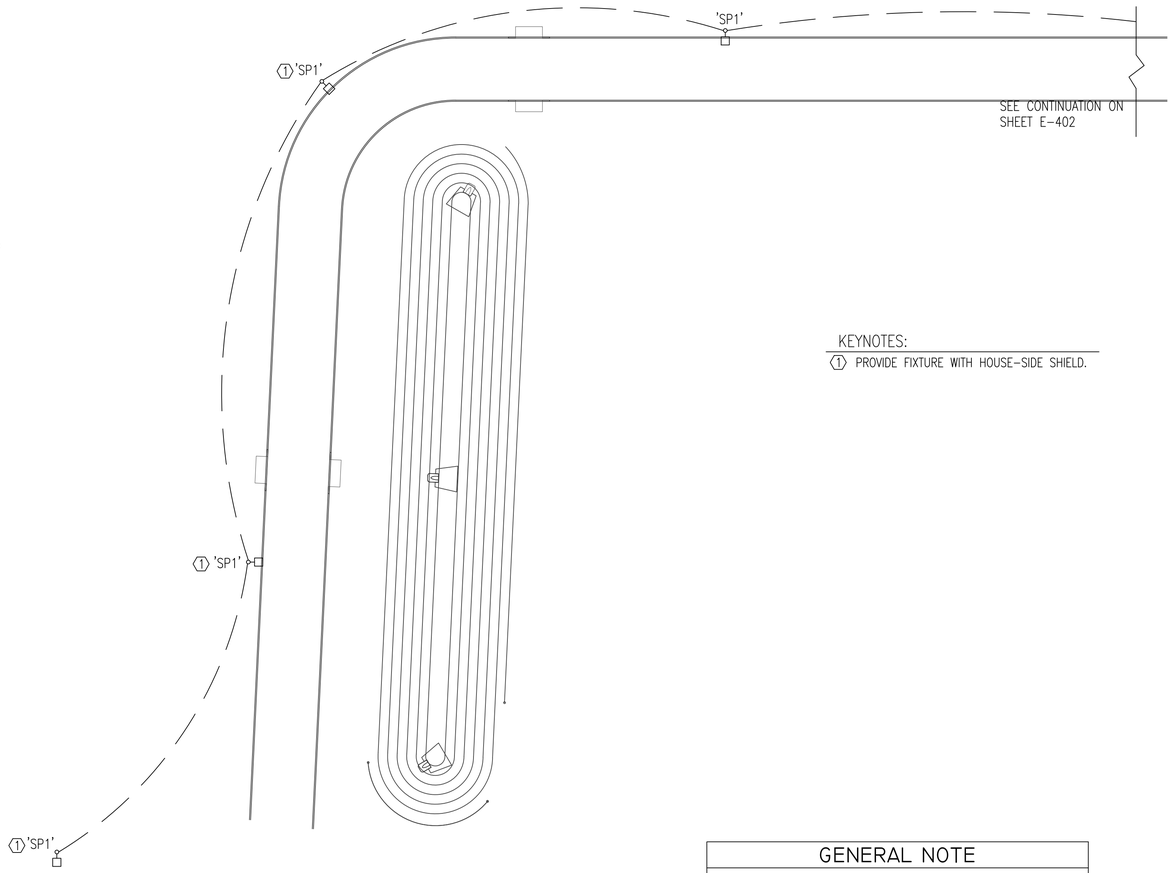
Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-402



1 PARKING LOT LIGHTING CONTROL DETAIL
NOT TO SCALE



KEYNOTES:
1 PROVIDE FIXTURE WITH HOUSE-SIDE SHIELD.

GENERAL NOTE
ALL WIRING ON THIS SHEET SHALL BE 2#8, 1#8 GROUND IN 3/4" CONDUIT.

PLAN NORTH

1 E-403 ELECTRICAL SITE PLAN - NEW WORK
1" = 30'-0"

SCALE: 1"=30'-0"
30' 0' 30' 60'

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

This item has been electronically signed and sealed by David M Bagwell, PE on 10/10/24 using a Digital Signature.

Printed Copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Donald J McCarthy

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Pensacola, FL 32502
Phone: (850) 462 - 8040
FL Authorization No: 30167
FL PE No: 59251
Job Number: 24-007

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY • SCHOOL DISTRICT •

Seal:
DAVID M. BAGWELL LICENSED PROFESSIONAL ENGINEER No. 59251 10/10/24 STATE OF FLORIDA

Project No.: 83X98735

Drawing Title:
ELECTRICAL SITE PLAN - NEW WORK

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-403

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER AND CATALOG No.	TYPE	MOUNTING	REMARKS
CL	1. HE WILLIAMS VWPH L30/740-T3-BLK-SDGL-OPTIONS-CONTROL/DIM-UNV 2. LITON WLP31B-25WUE-D10 3. VISIONAIRE PGAS-1-T2-16LC-5-4K-UNV-VCB-BK-BP	LED	SURFACE MOUNTED	LED WALL PACK LIGHT, 3000 LUMENS, DIE-CAST ALUMINUM ENCLOSURE, MICRO-PRISMATIC TEMPERED GLASS LENS
BL	1. HE WILLIAMS OSA6R-L19-8-40-AC-DT-SLV-AB-UNV 2. GARDCO BRM832-42-10L-116-NW-G2-120-RAL9006 3. VISIONAIRE OWK-2-8R42-PR-46W-4K-UNV-AB-SL-VRB	LED	CONCRETE BASE; SEE BOLLARD LIGHTING DETAIL SHEET E-507	6" ROUND ALUMINUM BOLLARD, 1900 LUMENS, ALUMINUM HOUSING, ACRYLIC LENS WITH BOWL REFLECTOR, SATIN ALUMINUM FINISH
DL5	1. HE WILLIAMS 2AS-L5/840-DIM-UNV-LW-OF-WH-AD-N-F1 2. LIGHTOLIER C2S-DL-06-940-FL-UPZU-C2SDLWT 3. CONTECH R2ASQNC05MVD-UMODSQ40KF-C2322SQ-WHT	LED	CEILING RECESSED	2" RECESSED ADJUSTABLE SQUARE DOWN LIGHT, 500 LUMENS, WIDE DISTRIBUTION, DIE-CAST ALUMINUM HOUSING, DIFFUSE ACRYLIC LENS, ANCHOR BOLTS
DL5E	1. HE WILLIAMS 2AS-L5/840-EM/5W-DIM-UNV-LW-OF-WH-AD-N-F1 2. LIGHTOLIER C2S-DL-06-940-FL-UPZU-C2SDLWT-BSL06T3FL 3. CONTECH R2ASQNC05MVDER-UMODSQ40KF-C2322SQ-WHT	LED	CEILING RECESSED	2" RECESSED ADJUSTABLE SQUARE DOWN LIGHT, 500 LUMENS, WIDE DISTRIBUTION, DIE-CAST ALUMINUM HOUSING, DIFFUSE ACRYLIC LENS, 5W EMERGENCY
DL6	1. HE WILLIAMS 6AR-L20/840-DIM-UNV-LW-OF-WH-WET/CC-N-F1 2. LITON LHAJLD6-35C105-UE-DUN-B60-T40-C90-C260-X/LRA672W-WL 3. CONTECH R6ANC5-40K-120-277V-D-F-RL-KIT-HB-24/C6304-WHT	LED	CEILING RECESSED	6" RECESSED ADJUSTABLE DOWN LIGHT, 2000 LUMENS, WIDE DISTRIBUTION, DIE-CAST ALUMINUM HOUSING, ACRYLIC LENS
DL6E	1. HE WILLIAMS 6AR-L20/840-EM/7W-DIM-UNV-LW-OF-WH-WET/CC-N-F1 2. LITON LHAJLD6-35C105-UE-DUN-B60-T40-C90-C260-X/LRA672W-WL-EM 3. CONTECH R6ANC5-40K-120-277V-D-F-ER-RL-KIT-HB-24/C6304-WHT	LED	CEILING RECESSED	6" RECESSED ADJUSTABLE DOWN LIGHT, 2000 LUMENS, WIDE DISTRIBUTION, DIE-CAST ALUMINUM HOUSING, ACRYLIC LENS, 7W EMERGENCY
DI32	1. HE WILLIAMS DIG-S22-L32/840-AD-DIM-UNV 2. DAYBRITE 2FGXG-32L-840-2-R-UNV-DIM 3. LITHONIA 2BLT2-RB-33L-ADP-GZ1-LP840	LED	CEILING RECESSED	2'x2' RECESSED DIRECT/INDIRECT STATIC TROFFER, 3200 LUMENS, 20 GA HOUSING, RIBBED ACRYLIC LENS, DIMMABLE DRIVER, UNIVERSAL VOLTAGE,
DI32E	1. HE WILLIAMS DIG-S22-L48/840-AD-EM/10W-DIM-UNV 2. DAYBRITE 2FGXG-32L-840-2-R-UNV-DIM-BSL10LST 3. LITHONIA 2BLT2-RB-33L-ADP-GZ1-LP840-E10WLCP	LED	CEILING RECESSED	2'x2' RECESSED DIRECT/INDIRECT STATIC TROFFER, 3200 LUMENS, 20 GA HOUSING, RIBBED ACRYLIC LENS, DIMMABLE DRIVER, UNIVERSAL VOLTAGE, 10W EMERGENCY BATTERY
DI48	1. HE WILLIAMS DIG-S22-L48/840-AD-DIM-UNV 2. DAYBRITE 2FGXG-48L-840-2-R-UNV-DIM 3. LITHONIA 2BLT2-RB-48L-ADP-GZ1-LP840	LED	CEILING RECESSED	2'x2' RECESSED DIRECT/INDIRECT STATIC TROFFER, 4800 LUMENS, 20 GA HOUSING, RIBBED ACRYLIC LENS, DIMMABLE DRIVER, UNIVERSAL VOLTAGE,
DI48E	1. HE WILLIAMS DIG-S22-L48/840-AD-EM/10W-DIM-UNV 2. DAYBRITE 2FGXG-48L-840-2-R-UNV-DIM-BSL10LST 3. LITHONIA 2BLT2-RB-48L-ADP-GZ1-LP840-E10WLCP	LED	CEILING RECESSED	2'x2' RECESSED DIRECT/INDIRECT STATIC TROFFER, 4800 LUMENS, 20 GA HOUSING, RIBBED ACRYLIC LENS, DIMMABLE DRIVER, UNIVERSAL VOLTAGE, 10W EMERGENCY BATTERY
FL	1. B-K LIGHTING #AT-E161-SP-3S-KS-MP-BZW-MT 2. HE WILLIAMS VF2-L106/740-NS-SR-DBZ-UNV 3. LITHONIA TFX2 LED 40K MVOLT YK DDBXD	LED	GROUND MOUNTED	LARGE FORMAT FLOODLIGHT, THREE SIDE SHIELD, WET LOCATION RATED, 277V. PROVIDE ALL ACCESSORIES AND STANCHION AS REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE AIMING OF FIXTURES WITH MANUFACTURER LIGHT REP. MIN 10,000 LUMENS
L430	1. HE WILLIAMS 76R-4-L30/840-DIM-UNV 2. DAYBRITE FSS430L840-UNV-DIM 3. LITHONIA ZL1D-L48-3000LM-FST-MVOLT-40K-80CRI-WH	LED	CEILING SURFACE; SUSPEND FIXTURE BELOW DUCTWORK, ETC. WHERE LIGHT IS BLOCKED BY OTHER TRADES	4' LINEAR STRIP, ROUND DIFFUSE ACRYLIC LENS, 3000 LUMENS, 22 GA HOUSING, WHITE POLYESTER POWDER COAT FINISH, UNIVERSAL VOLTAGE
L430E	1. HE WILLIAMS 76R-4-L30/840-EM/10W-DIM-UNV 2. DAYBRITE FSS430L840-UNV-DIM-EMLED 3. LITHONIA ZL1D-L48-3000LM-FST-MVOLT-40K-80CRI-WH-E10WLCP	LED	CEILING SURFACE; SUSPEND FIXTURE BELOW DUCTWORK, ETC. WHERE LIGHT IS BLOCKED BY OTHER TRADES	4' LINEAR STRIP, ROUND DIFFUSE ACRYLIC LENS, 3000 LUMENS, 22 GA HOUSING, WHITE POLYESTER POWDER COAT FINISH, UNIVERSAL VOLTAGE, 10W EMERGENCY BATTERY
L452	1. HE WILLIAMS 76R-4-L52/840-DIM-UNV 2. DAYBRITE FSS455L840-UNV-DIM 3. LITHONIA ZL1D-L48-5000LM-FST-MVOLT-40K-80CRI-WH	LED	CEILING SURFACE; SUSPEND FIXTURE BELOW DUCTWORK, ETC. WHERE LIGHT IS BLOCKED BY OTHER TRADES	4' LINEAR STRIP, ROUND DIFFUSE ACRYLIC LENS, 5200 LUMENS, 22 GA HOUSING, WHITE POLYESTER POWDER COAT FINISH, UNIVERSAL VOLTAGE
L452E	1. HE WILLIAMS 76R-4-L52/840-EM/10W-DIM-UNV 2. DAYBRITE FSS455L840-UNV-DIM-EMLED 3. LITHONIA ZL1D-L48-5000LM-FST-MVOLT-40K-80CRI-WH-E10WLCP	LED	CEILING SURFACE; SUSPEND FIXTURE BELOW DUCTWORK, ETC. WHERE LIGHT IS BLOCKED BY OTHER TRADES	4' LINEAR STRIP, ROUND DIFFUSE ACRYLIC LENS, 5200 LUMENS, 22 GA HOUSING, WHITE POLYESTER POWDER COAT FINISH, UNIVERSAL VOLTAGE
L472	1. HE WILLIAMS 76R-4-L72/840-DIM-UNV 2. DAYBRITE FSS470L840-UNV-DIM 3. LITHONIA ZL1D-L48-7000LM-FST-MVOLT-40K-80CRI-WH	LED	CEILING SURFACE; SUSPEND FIXTURE BELOW DUCTWORK, ETC. WHERE LIGHT IS BLOCKED BY OTHER TRADES	4' LINEAR STRIP, ROUND DIFFUSE ACRYLIC LENS, 7200 LUMENS, 22 GA HOUSING, WHITE POLYESTER POWDER COAT FINISH, UNIVERSAL VOLTAGE
L472E	1. HE WILLIAMS 76R-4-L72/840-EM/10W-DIM-UNV 2. DAYBRITE FSS470L840-UNV-DIM-EMLED 3. LITHONIA ZL1D-L48-7000LM-FST-MVOLT-40K-80CRI-WH-E10WLCP	LED	CEILING SURFACE; SUSPEND FIXTURE BELOW DUCTWORK, ETC. WHERE LIGHT IS BLOCKED BY OTHER TRADES	4' LINEAR STRIP, ROUND DIFFUSE ACRYLIC LENS, 7200 LUMENS, 22 GA HOUSING, WHITE POLYESTER POWDER COAT FINISH, UNIVERSAL VOLTAGE

EQUAL FIXTURE NOTES

1. ALL FIXTURES CONSIDERED EQUAL TO THE SPECIFIED FIXTURES SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER 10 DAYS PRIOR TO BID FOR APPROVAL. SUBMISSIONS FOR PRIOR APPROVAL SHALL INCLUDE PHOTOMETRY AND POINT-BY-POINT FOOT-CANDLE CALCULATIONS FOR ALL SPACES (INTERIOR AND EXTERIOR) TO VERIFY CONSISTENT ILLUMINATION LEVELS.
2. FIXTURES SUBMITTED AFTER BID THAT WERE NOT SUBMITTED AND APPROVED PRIOR TO BID WILL BE DEEMED AS A VALUE ENGINEERING PACKAGE. THIS SUBMITTAL SHALL SHOW THE CREDIT BEING GIVEN BACK TO THE OWNER IF THE FIXTURES ARE ALLOWED.
3. NOTE THAT FIXTURES SUBMITTED AFTER BID ARE AT THE CONTRACTORS RISK AS THE ENGINEER WILL REJECT THE SUBMITTAL IF THE FIXTURES DO NOT MEET PERFORMANCE, LIGHT OUTPUT, QUALITY OF FINISH, SUITABILITY FOR THE APPLICATION, OR OVERALL APPEARANCE TO INCLUDE AESTHETIC CONSIDERATIONS.
4. A VALUE ENGINEERED SUBMITTAL WILL NOT BE CONSIDERED UNLESS THERE IS GREATER THAN 20% COST SAVINGS TO THE OWNER. THE SUBMITTED INFORMATION SHALL INCLUDE THE AS SPECIFIED FIXTURE PACKAGE PRICING (WHICH WILL BE VERIFIED BY THE DISTRIBUTOR), AS WELL AS THE VALUE PACKAGE COMPARATIVE PRICING TO SHOW THE TOTAL NET SAVINGS AND CREDIT.

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OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M. BAGWELL LICENSE No. 59251 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/24

Project No.: 83X98735

Drawing Title:
LIGHTING FIXTURE SCHEDULE

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-501

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER AND CATALOG No.	TYPE	MOUNTING	REMARKS
LA2	1. HE WILLIAMS LRX2G-2-L4/840-DMA-L3-DRV-UNV 2. FINELITE HPX-R-D-2'-D-840-F-UNV-SC-10%-XX-FE-SW 3. PRUDENTIAL BPRO2-REC-FLSH-LED4-LO-2-TMW-LGP-SC-UNV-XXX-DM01	LED	CEILING RECESSED	2' LONG, 2" WIDE LINEAR ACT RECESSED, 300 LUMENS PER FOOT, 22 GA HOUSING, DIFFUSE MATTE ACRYLIC LENS, UNIVERSAL VOLTAGE
LA4	1. HE WILLIAMS LRX2G-4-L4/840-DMA-(L3)-DRV-UNV 2. FINELITE HPX-R-D-4'-D-840-F-UNV-SC-10%-XX-FE-SW 3. PRUDENTIAL BPRO2-REC-FLSH-LED4-LO-4-TMW-LGP-SC-UNV-XXX-DM01	LED	CEILING RECESSED	4' LONG, 2" WIDE LINEAR ACT RECESSED, 300 LUMENS PER FOOT, 22 GA HOUSING, DIFFUSE MATTE ACRYLIC LENS, UNIVERSAL VOLTAGE
LA4E	1. HE WILLIAMS LRX2G-4-L4/840-DMA-EM/10W-(L3)-DRV-UNV 2. FINELITE HPX-R-D-4'-D-840-F-UNV-SC-10%-XX-FE-SW-LGD10W 3. PRUDENTIAL BPRO2-REC-FLSH-LED4-LO-4-TMW-LGP-SC-UNV-EMHE-DM01	LED	CEILING RECESSED	4' LONG, 2" WIDE LINEAR ACT RECESSED, 300 LUMENS PER FOOT, 22 GA HOUSING, DIFFUSE MATTE ACRYLIC LENS, UNIVERSAL VOLTAGE, 10W EMERGENCY BATTERY
LA6	1. HE WILLIAMS LRX2G-6-L4/840-DMA-(L3)-DRV-UNV 2. FINELITE HPX-R-D-6'-D-840-F-UNV-SC-10%-XX-FE-SW 3. PRUDENTIAL BPRO2-REC-FLSH-LED4-LO-6-TMW-LGP-SC-UNV-XXX-DM01	LED	CEILING RECESSED	6' LONG, 2" WIDE LINEAR ACT RECESSED, 300 LUMENS PER FOOT, 22 GA HOUSING, DIFFUSE MATTE ACRYLIC LENS, UNIVERSAL VOLTAGE
LA6AE	1. HE WILLIAMS LRX2G-6-L8/840-DMA-DRV-UNV 2. FINELITE HPX-R-D-6'-D-840-F-UNV-SC-10%-XX-FE-SW 3. PRUDENTIAL BPRO2-REC-FLSH-LED4-HO-6-TMW-LGP-SC-UNV-XXX-DM01	LED	CEILING RECESSED	6' LONG, 2" WIDE LINEAR ACT RECESSED, 800 LUMENS PER FOOT, 22 GA HOUSING, DIFFUSE MATTE ACRYLIC LENS, UNIVERSAL VOLTAGE
LA8	1. HE WILLIAMS LRX2G-8-L4/840-DMA-(L3)-DRV-UNV 2. FINELITE HPX-R-D-8'-D-840-F-UNV-SC-10%-XX-FE-SW 3. PRUDENTIAL BPRO2-REC-FLSH-LED4-LO-8-TMW-LGP-SC-UNV-XXX-DM01	LED	CEILING RECESSED	8' LONG, 2" WIDE LINEAR ACT RECESSED, 300 LUMENS PER FOOT, 22 GA HOUSING, DIFFUSE MATTE ACRYLIC LENS, UNIVERSAL VOLTAGE
LA8E	1. HE WILLIAMS LRX2G-8-L4/840-DMA-EM/10W-(L3)-DRV-UNV 2. FINELITE HPX-R-D-8'-D-840-F-UNV-SC-10%-XX-FE-SW-LGD10W 3. PRUDENTIAL BPRO2-REC-FLSH-LED4-LO-8-TMW-LGP-SC-UNV-EMHE-DM01	LED	CEILING RECESSED	8' LONG, 2" WIDE LINEAR ACT RECESSED, 300 LUMENS PER FOOT, 22 GA HOUSING, DIFFUSE MATTE ACRYLIC LENS, UNIVERSAL VOLTAGE, 10W EMERGENCY BATTERY
LA8A	1. HE WILLIAMS LRX2G-8-L10/840-DMA-DRV-UNV 2. FINELITE HPX-R-D-8'-D-840-F-UNV-SC-10%-XX-FE-SW 3. PRUDENTIAL BPRO2-REC-FLSH-LED4-LO-8-TMW-LGP-SC-UNV-XXX-DM01	LED	CEILING RECESSED	8' LONG, 2" WIDE LINEAR ACT RECESSED, 1000 LUMENS PER FOOT, 22 GA HOUSING, DIFFUSE MATTE ACRYLIC LENS, UNIVERSAL VOLTAGE
LA8AE	1. HE WILLIAMS LRX2G-8-L10/840-DMA-EM/10W-DRV-UNV 2. FINELITE HPX-R-D-8'-D-840-F-UNV-SC-10%-XX-FE-SW-LGD10W 3. PRUDENTIAL BPRO2-REC-FLSH-LED4-LO-8-TMW-LGP-SC-UNV-EMHE-DM01	LED	CEILING RECESSED	8' LONG, 2" WIDE LINEAR ACT RECESSED, 1000 LUMENS PER FOOT, 22 GA HOUSING, DIFFUSE MATTE ACRYLIC LENS, UNIVERSAL VOLTAGE, 10W EMERGENCY BATTERY
LEP	1. HE WILLIAMS 96-4-L62/840-HIAFR-WET/2-DRV-UNV 2. LITHONIA FEM-L48-6000LM-WD-MVOLT-GZ10-40K-80CRI-WLF 3. HE WILLIAMS AVX-4-L62/840-CPC-OPTIONS-CONTROL/DIM-UNV	LED	CEILING RECESSED	4' LONG, ELEVATOR PIT/SHAFT FIXTURE, DIE-CAST ALUMINUM, POLYCARBONATE LENS, 5500 LUMENS,
LG4	1. HE WILLIAMS LRX2F-4-L4/840-DMA-(L3)-DRV-UNV 2. FINELITE HPX-R-D-4'-D-840-F-UNV-SC-10%-XX-FE-SW 3. PRUDENTIAL BPRO2-REC-FLSH-LED4-LO-4-TMW-LGP-SC-UNV-XXX-DM01	LED	CEILING RECESSED	4' LONG, 2" WIDE LINEAR GYP RECESSED, FLANGE TRIM, 300 LUMENS PER FOOT, 22 GA HOUSING, DIFFUSE MATTE ACRYLIC LENS, UNIVERSAL VOLTAGE
LG4E	1. HE WILLIAMS LRX2F-4-L4/840-DMA-(L3)-DRV-UNV 2. FINELITE HPX-R-D-4'-D-840-F-UNV-SC-10%-XX-FE-SW-LGD10W 3. PRUDENTIAL BPRO2-REC-FLSH-LED4-LO-4-TMW-LGP-SC-UNV-EMHE-DM01	LED	CEILING RECESSED	4' LONG, 2" WIDE LINEAR GYP RECESSED, FLANGE TRIM, 300 LUMENS PER FOOT, 22 GA HOUSING, DIFFUSE MATTE ACRYLIC LENS, UNIVERSAL VOLTAGE, 10W EMERGENCY BATTERY
LG6	1. HE WILLIAMS LRX2F-6-L4/840-DMA-(L3)-DRV-UNV 2. FINELITE HPX-R-D-6'-D-840-F-UNV-SC-10%-XX-FE-SW 3. PRUDENTIAL BPRO2-REC-FLSH-LED4-LO-6-TMW-LGP-SC-UNV-XXX-DM01	LED	CEILING RECESSED	6' LONG, 2" WIDE LINEAR GYP RECESSED, FLANGE TRIM, 300 LUMENS PER FOOT, 22 GA HOUSING, DIFFUSE MATTE ACRYLIC LENS, UNIVERSAL VOLTAGE
LG8	1. HE WILLIAMS LRX2F-8-L4/840-DMA-(L3)-DRV-UNV 2. FINELITE HPX-R-D-8'-D-840-F-UNV-SC-10%-XX-FE-SW 3. PRUDENTIAL BPRO2-REC-FLSH-LED4-LO-8-TMW-LGP-SC-UNV-XXX-DM01	LED	CEILING RECESSED	8' LONG, 2" WIDE LINEAR GYP RECESSED, FLANGE TRIM, 300 LUMENS PER FOOT, 22 GA HOUSING, DIFFUSE MATTE ACRYLIC LENS, UNIVERSAL VOLTAGE
LG8E	1. HE WILLIAMS LRX2F-8-L4/840-DMA-EM/10W-(L3)-DRV-UNV 2. FINELITE HPX-R-D-8'-D-840-F-UNV-SC-10%-XX-FE-SW-LGD10W 3. PRUDENTIAL BPRO2-REC-FLSH-LED4-LO-8-TMW-LGP-SC-UNV-EMHE-DM01	LED	CEILING RECESSED	8' LONG, 2" WIDE LINEAR GYP RECESSED, FLANGE TRIM, 300 LUMENS PER FOOT, 22 GA HOUSING, DIFFUSE MATTE ACRYLIC LENS, UNIVERSAL VOLTAGE, 10W EMERGENCY BATTERY
LG8A	1. HE WILLIAMS LRX2F-8-L10/840-DMA-DRV-UNV 2. FINELITE HPX-R-D-8'-D-840-F-UNV-SC-10%-XX-FE-SW 3. PRUDENTIAL BPRO2-REC-FLSH-LED4-HO-8-TMW-LGP-SC-UNV-XXX-DM01	LED	CEILING RECESSED	8' LONG, 2" WIDE LINEAR GYP RECESSED, FLANGE TRIM, 1000 LUMENS PER FOOT, 22 GA HOUSING, DIFFUSE MATTE ACRYLIC LENS, UNIVERSAL VOLTAGE
LG8AE	1. HE WILLIAMS LRX2F-8-L10/840-DMA-EM/10W-DRV-UNV 2. FINELITE HPX-R-D-8'-D-840-F-UNV-SC-10%-XX-FE-SW-LGD10W 3. PRUDENTIAL BPRO2-REC-FLSH-LED4-HO-8-TMW-LGP-SC-UNV-EMHE-DM01	LED	CEILING RECESSED	8' LONG, 2" WIDE LINEAR GYP RECESSED, FLANGE TRIM, 1000 LUMENS PER FOOT, 22 GA HOUSING, DIFFUSE MATTE ACRYLIC LENS, UNIVERSAL VOLTAGE, 10W EMERGENCY BATTERY
LG12	1. HE WILLIAMS LRX2F-12-L4/840-DMA-(L3)-DRV-UNV 2. FINELITE HPX-R-D-12'-D-840-F-UNV-SC-10%-XX-FE-SW 3. PRUDENTIAL BPRO2-REC-FLSH-LED4-LO-12-TMW-LGP-SC-UNV-XXX-DM01	LED	CEILING RECESSED	12' LONG, 2" WIDE LINEAR GYP RECESSED, FLANGE TRIM, 300 LUMENS PER FOOT, 22 GA HOUSING, DIFFUSE MATTE ACRYLIC LENS, UNIVERSAL VOLTAGE
LG12E	1. HE WILLIAMS LRX2F-12-L4/840-DMA-EM/10W-(L3)-DRV-UNV 2. FINELITE HPX-R-D-12'-D-840-F-UNV-SC-10%-XX-FE-SW-LGD10W 3. PRUDENTIAL BPRO2-REC-FLSH-LED4-LO-12-TMW-LGP-SC-UNV-EMHE-DM01	LED	CEILING RECESSED	12' LONG, 2" WIDE LINEAR GYP RECESSED, FLANGE TRIM, 300 LUMENS PER FOOT, 22 GA HOUSING, DIFFUSE MATTE ACRYLIC LENS, UNIVERSAL VOLTAGE, 10W EMERGENCY BATTERY

EQUAL FIXTURE NOTES

1. ALL FIXTURES CONSIDERED EQUAL TO THE SPECIFIED FIXTURES SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER 10 DAYS PRIOR TO BID FOR APPROVAL. SUBMISSIONS FOR PRIOR APPROVAL SHALL INCLUDE PHOTOMETRY AND POINT-BY-POINT FOOT-CANDLE CALCULATIONS FOR ALL SPACES (INTERIOR AND EXTERIOR) TO VERIFY CONSISTENT ILLUMINATION LEVELS.
2. FIXTURES SUBMITTED AFTER BID THAT WERE NOT SUBMITTED AND APPROVED PRIOR TO BID WILL BE DEEMED AS A VALUE ENGINEERING PACKAGE. THIS SUBMITTAL SHALL SHOW THE CREDIT BEING GIVEN BACK TO THE OWNER IF THE FIXTURES ARE ALLOWED.
3. NOTE THAT FIXTURES SUBMITTED AFTER BID ARE AT THE CONTRACTORS RISK AS THE ENGINEER WILL REJECT THE SUBMITTAL IF THE FIXTURES DO NOT MEET PERFORMANCE, LIGHT OUTPUT, QUALITY OF FINISH, SUITABILITY FOR THE APPLICATION, OR OVERALL APPEARANCE TO INCLUDE AESTHETIC CONSIDERATIONS.
4. A VALUE ENGINEERED SUBMITTAL WILL NOT BE CONSIDERED UNLESS THERE IS GREATER THAN 20% COST SAVINGS TO THE OWNER. THE SUBMITTED INFORMATION SHALL INCLUDE THE AS SPECIFIED FIXTURE PACKAGE PRICING (WHICH WILL BE VERIFIED BY THE DISTRIBUTOR), AS WELL AS THE VALUE PACKAGE COMPARATIVE PRICING TO SHOW THE TOTAL NET SAVINGS AND CREDIT.

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Drawing Title:
LIGHTING FIXTURE SCHEDULE

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-502

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER AND CATALOG No.	TYPE	MOUNTING	REMARKS
PL	1. METALUMEN RM2DU-ACL-40K-4-BWMB-200-1-PAX-4 2. FINELITE HP2-P-ID-4-B-B-840-F-F-96-UNV-SC-FC-1%-FA50-X-FE-SW	LED	PENDANT MOUNTED	2" CONTINUOUS UP/DOWN, 1600 LUMENS, DIE-CAST ALUMINUM HOUSING, DIFFUSE ACRYLIC LENS
PLE	1. METALUMEN RM2DU-ACL-40K-4-BWMB-200-EM-PAX-4 2. FINELITE HP2-P-ID-4-B-B-840-F-F-96-UNV-SC-FC-1%-FA50-X-FE-SW-LGD10W	LED	PENDANT MOUNTED	2" CONTINUOUS UP/DOWN, 1600 LUMENS, DIE-CAST ALUMINUM HOUSING, DIFFUSE ACRYLIC LENS, 10W EMERGENCY BATTERY
PL2	1. H.E. WILLIAMS MX4UD-4-L12-840-D/L12-840-U-F-F-AC/D-48 2. FINELITE HP4-P-ID-4-B-B-840-F-F-96LG-UNV-SC-FC-10%-FA50-FE-SW	LED	PENDANT MOUNTED	4" CONTINUOUS UP/DOWN, 1200 LUMENS, DIE-CAST ALUMINUM HOUSING, DIFFUSE ACRYLIC LENS
PL2E	1. H.E. WILLIAMS MX4UD-4-L12-840-D/L12-840-U-F-F-AC/D-48-EM/10WRM 2. FINELITE HP4-P-ID-4-B-B-840-F-F-96LG-UNV-SC-FC-10%-FA50-FE-SW-LGD10W	LED	PENDANT MOUNTED	4" CONTINUOUS UP/DOWN, 1200 LUMENS, DIE-CAST ALUMINUM HOUSING, DIFFUSE ACRYLIC LENS, 10W EMERGENCY BATTERY
SL	1. HE WILLIAMS 2AS-L5/840-DIM-UNV-LW-OF-WH-WET/CC-N-F1 2. LIGHTOLIER C2S-DL-06-940-FL-UPZU-C2SDLWTWL 3. CONTECH R2ASQNC05MVD-UMODSQ40KF-C2322SQ-WHT	LED	CEILING RECESSED	2" RECESSED ADJUSTABLE SQUARE DOWN LIGHT, 500 LUMENS, WIDE DISTRIBUTION, DIE-CAST ALUMINUM HOUSING, DIFFUSE ACRYLIC LENS, WET LOCATION LISTED
SLE	1. HE WILLIAMS 2AS-L5/840-DIM-UNV-EM/10W-LW-OF-WH-WET/CC-N-F1 2. LIGHTOLIER C2S-DL-06-940-FL-UPZU-C2SDLWTWL-BSL06T3FL 3. CONTECH R2ASQNC05MVDER-UMODSQ40KF-C2322SQ-WHT	LED	CEILING RECESSED	2" RECESSED ADJUSTABLE SQUARE DOWN LIGHT, 500 LUMENS, WIDE DISTRIBUTION, DIE-CAST ALUMINUM HOUSING, DIFFUSE ACRYLIC LENS, WET LOCATION LISTED, 10W EMERGENCY BATTERY
SP1	1. GARDCO OPF-M-A10-840-T3M-AR1-HVU-BK 2. LUMEC RVM-245W144LED4K-G2-LE3-HVU-PH9-BK	LED	POLE MOUNTED 30' AFG	LED SQUARE POLE LIGHT, 20,000 LUMENS, TYPE 3 MEDIUM DISTRIBUTION, STANDARD ARM MOUNT, DIE-CAST ALUMINUM HOUSING
SP2	1. GARDCO OPF-M-A10-840-T3M-AR1-HVU-BK 2. LUMEC RVM-245W144LED4K-G2-LE3-HVU-PH9-BK	LED	POLE MOUNTED 30' AFG	LED SQUARE POLE LIGHT, 20,000 LUMENS, TYPE 3 MEDIUM DISTRIBUTION, STANDARD ARM MOUNT, DIE-CAST ALUMINUM HOUSING, TWO FIXTURES ON POLE MOUNTED AT 180 DEGREES
VL	1. H.E. WILLIAMS SL-S-2-L5-840-RD-SM-DIM-UNV-2 2. CAMMAN LIGHTING INF-WW-2-DC-LD400-LI400-40K-CLV-UNV-(FINISH)	LED	WALL MOUNTED ABOVE MIRROR	SLIMLINE ARCHITECTURAL FIXTURE, 500 LUMENS, STAND ALONE, EXTRUDED ALUMINUM, ROUND FROSTED ARYLIC
WB	1. HE WILLIAMS VWPV-L30-740-T3-SDGL-DIM-UNV 2. LITHONIA WDGE2 LED P3 40K 70CRI T3M MVOLT SRM DDBXD	LED	WALL MOUNTED 6" BELOW SOFFIT	DIE-CAST ALUMINUM WALL PACK, WITH REFLECTOR AND SILICONE GASKETS,
WBE	1. HE WILLIAMS VWPV-L30-740-T3-SDGL-DIM-UNV-EM/4W 2. LITHONIA WDGE2 LED P3 40K 70CRI T3M MVOLT SRM E10WH DDBXD	LED	WALL MOUNTED 6" BELOW SOFFIT	DIE-CAST ALUMINUM WALL PACK, WITH REFLECTOR AND SILICONE GASKETS, EMERG. BATTERY PACK
WS	1. FC LIGHTING FCC814W-UNV-940-40/40L-BKE-D40/U40-LD 2. LITON WD2360-B-L20-BU45/BD45-UE-D10 3. INSIGHT SSL-UD-MO-40K-55-40K-WM-120-DIM-TBL	LED	WALL MOUNTED	DIE-CAST ALUMINUM HOUSING, CLEAR ANTI-GLARE TEMPERED GLASS, 4000 LUMENS
WSE	1. FC LIGHTING FCC814W-UNV-940-40/40L-BKE-D40/U40-LD-BBUX 2. LITON WD2360-B-L20-BU45/BD45-UE-D10-EMB-SD	LED	WALL MOUNTED	DIE-CAST ALUMINUM HOUSING, CLEAR ANTI-GLARE TEMPERED GLASS, 4000 LUMENS, EMERGENCY BATTERY BACKUP AND LED DRIVER REMOTE
WS2	1. FC LIGHTING FCC814W-UNV-940-40/20L-BKE-D40/U40-LD 2. LITON WD2360-B-L20-BU45/BD45-UE-D10 3. INSIGHT SSL-UD-MO-40K-55-40K-WM-120-DIM-TBL	LED	WALL MOUNTED	DIE-CAST ALUMINUM HOUSING, CLEAR ANTI-GLARE TEMPERED GLASS, 4000 LUMENS OF DOWNLIGHT, 2000 LUMENS OF UPLIGHT
WS2E	1. FC LIGHTING FCC814W-UNV-940-40/20L-BKE-D40/U40-LD-BBUX 2. LITON WD2360-B-L20-BU45/BD45-UE-D10-EMB-SD	LED	WALL MOUNTED	DIE-CAST ALUMINUM HOUSING, CLEAR ANTI-GLARE TEMPERED GLASS, 4000 LUMENS, OF DOWNLIGHT, 2000 LUMENS OF UPLIGHT, EMERGENCY BATTERY BACKUP AND LED DRIVER REMOTE
X	1. H.E. WILLIAMS EXIT/EL-DF-R-CP-AN-EM 2. LITHONIA EDG-2-RMR-ELSD	LED	WALL ABOVE DOOR	LED EXIT LIGHT, DIE CAST ALUMINUM HOUSING WITH RED LETTERING, EMERGENCY BATTERY PACK, SELF DIAGNOSTICS, ARROWS AS INDICATED
XC	1. H.E. WILLIAMS EXIT/EL-DF-R-CP-AN-EM 2. LITHONIA EDG-2-RMR-ELSD	LED	CEILING SURFACE	LED EXIT LIGHT, DIE CAST ALUMINUM HOUSING WITH RED LETTERING, EMERGENCY BATTERY PACK, SELF DIAGNOSTICS, ARROWS AS INDICATED

EQUAL FIXTURE NOTES

1. ALL FIXTURES CONSIDERED EQUAL TO THE SPECIFIED FIXTURES SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER 10 DAYS PRIOR TO BID FOR APPROVAL. SUBMISSIONS FOR PRIOR APPROVAL SHALL INCLUDE PHOTOMETRY AND POINT-BY-POINT FOOT-CANDLE CALCULATIONS FOR ALL SPACES (INTERIOR AND EXTERIOR) TO VERIFY CONSISTENT ILLUMINATION LEVELS.
2. FIXTURES SUBMITTED AFTER BID THAT WERE NOT SUBMITTED AND APPROVED PRIOR TO BID WILL BE DEEMED AS A VALUE ENGINEERING PACKAGE. THIS SUBMITTAL SHALL SHOW THE CREDIT BEING GIVEN BACK TO THE OWNER IF THE FIXTURES ARE ALLOWED.
3. NOTE THAT FIXTURES SUBMITTED AFTER BID ARE AT THE CONTRACTORS RISK AS THE ENGINEER WILL REJECT THE SUBMITTAL IF THE FIXTURES DO NOT MEET PERFORMANCE, LIGHT OUTPUT, QUALITY OF FINISH, SUITABILITY FOR THE APPLICATION, OR OVERALL APPEARANCE TO INCLUDE AESTHETIC CONSIDERATIONS.
4. A VALUE ENGINEERED SUBMITTAL WILL NOT BE CONSIDERED UNLESS THERE IS GREATER THAN 20% COST SAVINGS TO THE OWNER. THE SUBMITTED INFORMATION SHALL INCLUDE THE AS SPECIFIED FIXTURE PACKAGE PRICING (WHICH WILL BE VERIFIED BY THE DISTRIBUTOR), AS WELL AS THE VALUE PACKAGE COMPARATIVE PRICING TO SHOW THE TOTAL NET SAVINGS AND CREDIT.

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Donald J McCarthy

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FL Authorization No: 30167
FL PE No: 59251
Job Number: 24-007

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY • SCHOOL DISTRICT •

Seal:

DAVID M. BAGWELL LICENSE NO. 59251 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/24

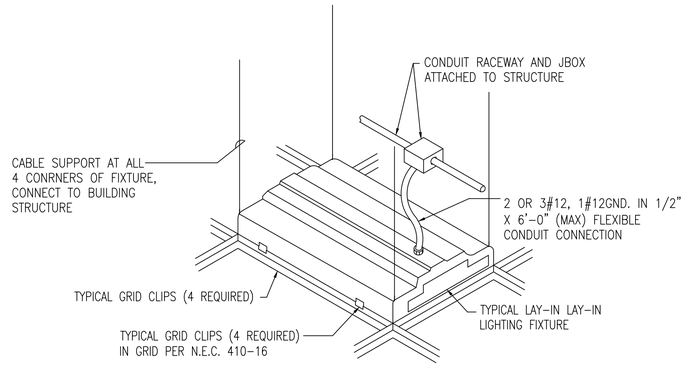
Project No.: 83X98735

Drawing Title:
LIGHTING FIXTURE SCHEDULE

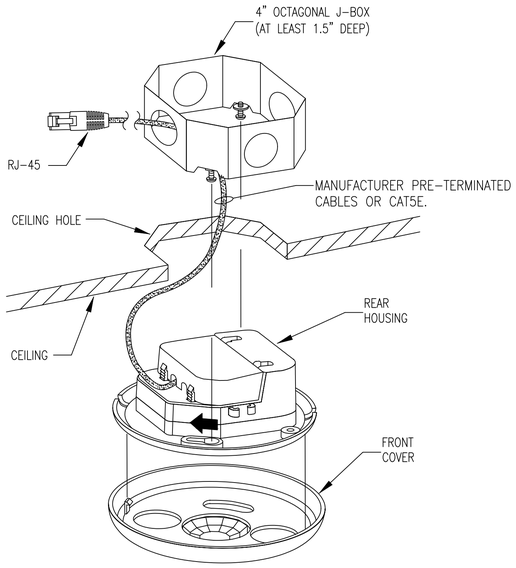
Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

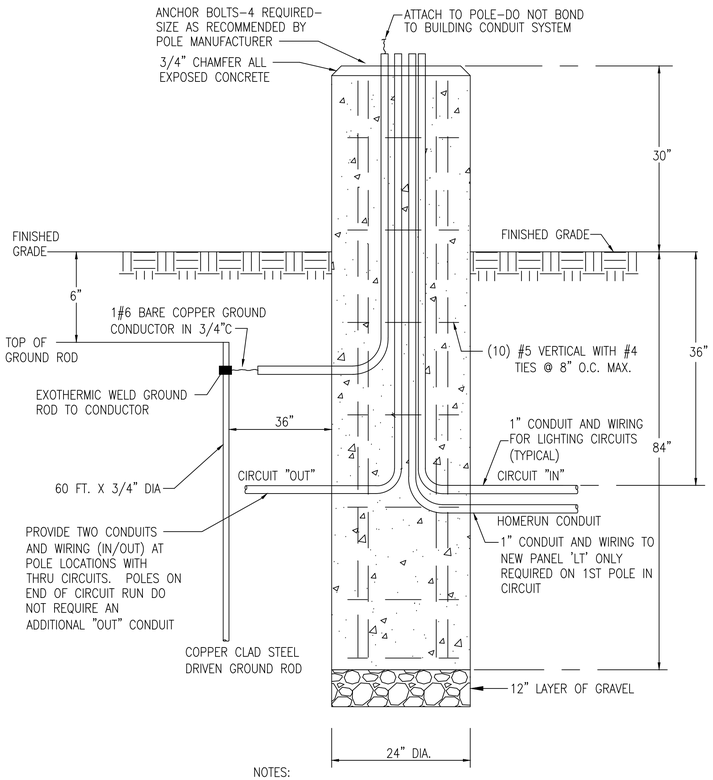
Drawing No.: E-503



1 TYPICAL LAY-IN FIXTURE DETAIL
NOT TO SCALE



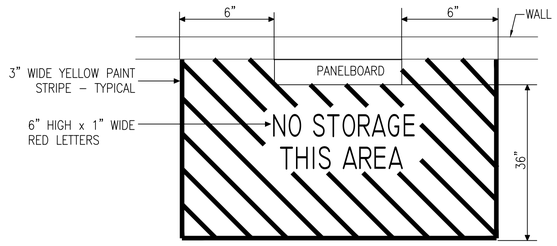
2 CEILING MOUNTED OCCUPANCY/VACANCY MOUNTING DETAIL
NOT TO SCALE



NOTES:

- INSTALL CONCRETE POLE BASE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS
- VERIFY BOLT CIRCLE PATTERN WITH MANUFACTURER
- ALL CONDUITS SHOWN IN DETAIL ARE PVC SCHEDULE 40
- DETAIL SHOWS CAST IN PLACE REQUIREMENTS. PRECAST POLE BASES MAY BE USED IN LIEU OF CAST IN PLACE BUT THE PRECAST MANUFACTURER MUST PROVIDE STRUCTURAL ENGINEER SIGNED/SEALED DRAWINGS FOR GOVERNMENT APPROVAL PRIOR TO ORDERING AND INSTALLING.

3 POLE BASE DETAIL
NOT TO SCALE



4 TYPICAL FLOOR MARKING AT ELECTRICAL PANELS
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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

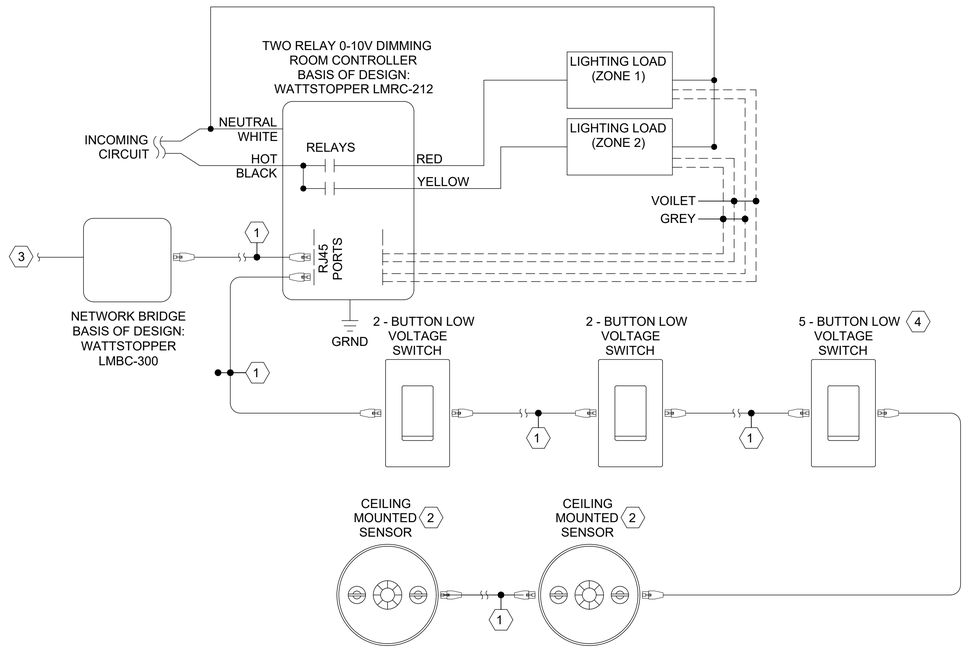
Seal:
DAVID M. BAGWELL LICENSE NO. 59251 STATE OF FLORIDA PROFESSIONAL ENGINEER
10/10/24

Project No.: 83X98735

Drawing Title:
DETAILS

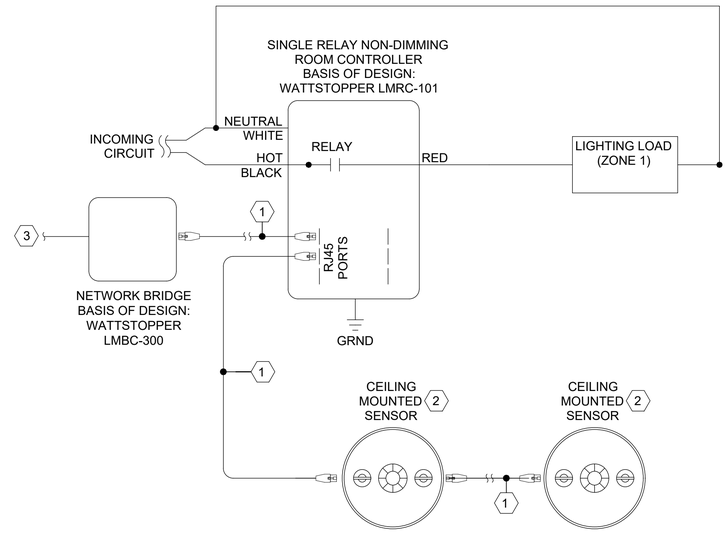
Date: 10 OCTOBER 2024

Designed By:	CTK	Drawing No.:
Drawn By:	CTK	E-504
Checked By:	DMB	



1 TYPICAL CLASSROOM LIGHTING CONTROL DETAIL

NOT TO SCALE

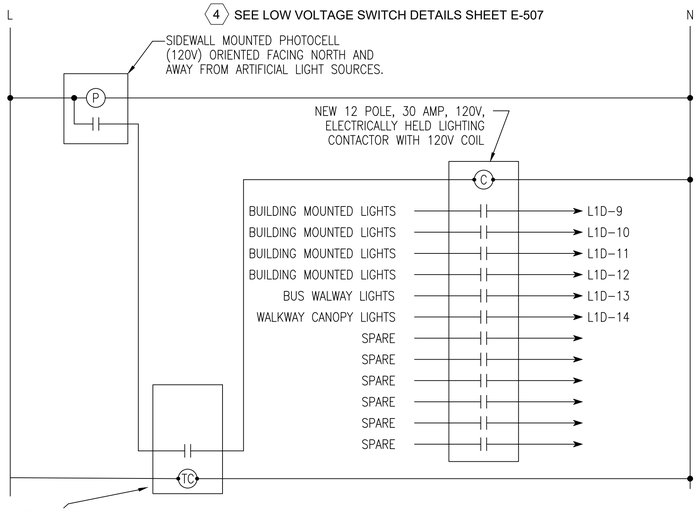


2 TYPICAL GANG RESTROOM LIGHTING CONTROL DETAIL

NOT TO SCALE

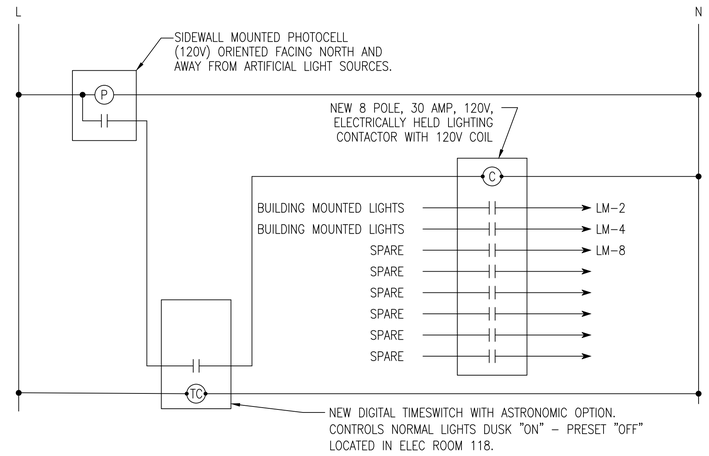
NOTES:

1. CATEGORY 5E CABLE
2. NOT ALL ROOMS WILL HAVE THE SAME NUMBER OF DEVICES. REFER TO FLOOR PLANS.
3. SERIAL CABLE FROM PREVIOUS ROOM CONTROLLER TO NEXT ROOM CONTROLLER
4. SEE LOW VOLTAGE SWITCH DETAILS SHEET E-507



3 CLASSROOM EXTERIOR BUILDING MOUNTED LIGHTING CONTROL DETAIL

NOT TO SCALE



4 ADMIN BUILDING LIGHTING CONTROL DETAIL

NOT TO SCALE

NOTE: MOTION SENSOR/OCCUPANCY SENSOR DETAILS ARE GENERAL AND DO NOT NECESSARILY REPRESENT ALL WIRING REQUIREMENTS FOR EQUIPMENT BEING PROVIDED. THE CONTRACTOR SHALL INSTALL MOTION/OCCUPANCY/CEILING SENSORS AND ASSOCIATED WIRING AS INSTRUCTED BY THE MANUFACTURER REQUIREMENTS.

THE LIGHTING DESIGN DRAWINGS SHOW DEVICE LOCATIONS AND CIRCUITING BUT ARE NOT COMPREHENSIVE OF ALL WIRING REQUIRE FOR A COMPLETE LIGHTING INSTALLATION. CONTRACTOR SHALL PROVIDE MANUFACTURER SHOP DRAWINGS FROM CONTROLS VENDOR SELECTED. SHOP DRAWINGS SHALL SHOW REQUIRED WIRE TYPES (BOTH LOW VOLTAGE AND 120/277V), WIRE QUANTITIES, WIRE SIZES, SWITCH TYPES, (LOW VOLTAGE OR 120/277V), SWITCH LOCATIONS, MOTIONS SENSORS ALONG WITH ASSOCIATED COVERAGE LIMITS (WALL AND CEILING), AND CONNECTIONS FOR ALL LIGHTING SYSTEMS DEVICES. ADDITIONAL SENSORS SHALL BE ADDED AS REQUIRED TO ENSURE FULL COVERAGE. SHOP DRAWING CONTROLS WIRING LAYOUT SHALL SUPERSEDE ANY DESIGN DRAWING WIRING CONFIGURATIONS. THE CONTRACTOR SHALL INSTALL ALL LIGHTING SYSTEM WIRING PER THE MANUFACTURER SHOP DRAWINGS.

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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M. BAGWELL LICENSE NO. 59251 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/24

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Donald J McCarthy Professional Engineer State of Florida No. 59251

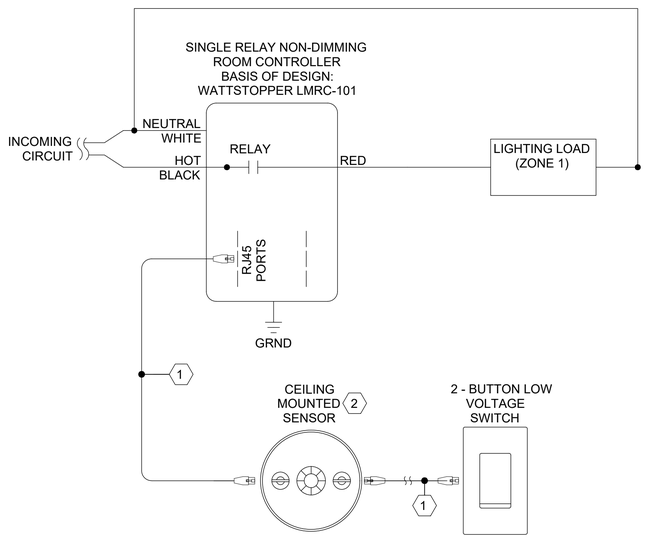
Project No.: 83X98735

Drawing Title:
DETAILS

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-505

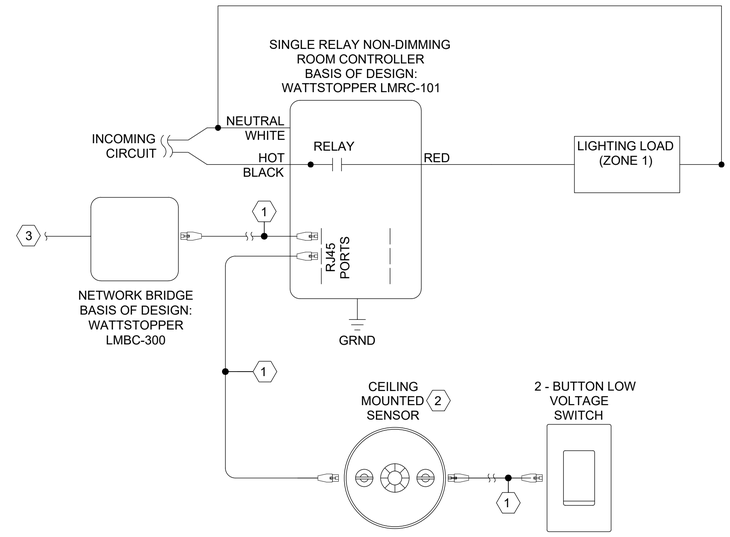


1 TYPICAL OFFICE LIGHTING CONTROL DETAIL

NOT TO SCALE

NOTES:

1. CATEGORY 5E CABLE
2. NOT ALL ROOMS WILL HAVE THE SAME NUMBER OF DEVICES. REFER TO FLOOR PLANS.
3. SERIAL CABLE FROM PREVIOUS ROOM CONTROLLER TO NEXT ROOM CONTROLLER

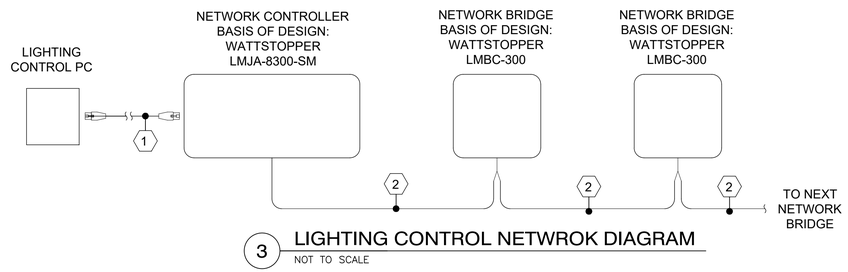


2 TYPICAL CORRIDOR LIGHTING CONTROL DETAIL

NOT TO SCALE

NOTES:

1. CATEGORY 5E CABLE
2. NOT ALL ROOMS WILL HAVE THE SAME NUMBER OF DEVICES. REFER TO FLOOR PLANS.
3. SERIAL CABLE FROM PREVIOUS ROOM CONTROLLER TO NEXT ROOM CONTROLLER
4. CORRIDOR FIXTURES SHALL BE PROGRAMMED FOR TIME OF DAY OPERATION IN ACCORDANCE WITH SCHOOL REQUIREMENTS. SWITCHES AND OCCUPANCY SENSORS SHALL SERVE AS CONTROLS IN AFTER HOURS OPERATION.



3 LIGHTING CONTROL NETWROK DIAGRAM

NOT TO SCALE

NOTES:

1. CATEGORY 5E CABLE
2. SERIAL CABLE

FIRE ALARM INTERFACE
LIGHTING CONTROLS THROUGHOUT ALL COMMON AREAS AND CLASSROOMS SHALL BE PROGRAMMED TO HOLD-ON AT 100% LIGHTING LEVELS IN THE EVENT OF FIRE ALARM.

NOTE: MOTION SENSOR/OCCUPANCY SENSOR DETAILS ARE GENERAL AND DO NOT NECESSARILY REPRESENT ALL WIRING REQUIREMENTS FOR EQUIPMENT BEING PROVIDED. THE CONTRACTOR SHALL INSTALL MOTION/OCCUPANCY/CEILING SENSORS AND ASSOCIATED WIRING AS INSTRUCTED BY THE MANUFACTURER REQUIREMENTS.

THE LIGHTING DESIGN DRAWINGS SHOW DEVICE LOCATIONS AND CIRCUITING BUT ARE NOT COMPREHENSIVE OF ALL WIRING REQUIRE FOR A COMPLETE LIGHTING INSTALLATION. CONTRACTOR SHALL PROVIDE MANUFACTURER SHOP DRAWINGS FROM CONTROLS VENDOR SELECTED. SHOP DRAWINGS SHALL SHOW REQUIRED WIRE TYPES (BOTH LOW VOLTAGE AND 120/277V), WIRE QUANTITIES, WIRE SIZES, SWITCH TYPES, (LOW VOLTAGE OR 120/277V), SWITCH LOCATIONS, MOTIONS SENSORS ALONG WITH ASSOCIATED COVERAGE LIMITS (WALL AND CEILING), AND CONNECTIONS FOR ALL LIGHTING SYSTEMS DEVICES. ADDITIONAL SENSORS SHALL BE ADDED AS REQUIRED TO ENSURE FULL COVERAGE. SHOP DRAWING CONTROLS WIRING LAYOUT SHALL SUPERSEDE ANY DESIGN DRAWING WIRING CONFIGURATIONS. THE CONTRACTOR SHALL INSTALL ALL LIGHTING SYSTEM WIRING PER THE MANUFACTURER SHOP DRAWINGS.

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Seal:

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LICENSED
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10/10/24
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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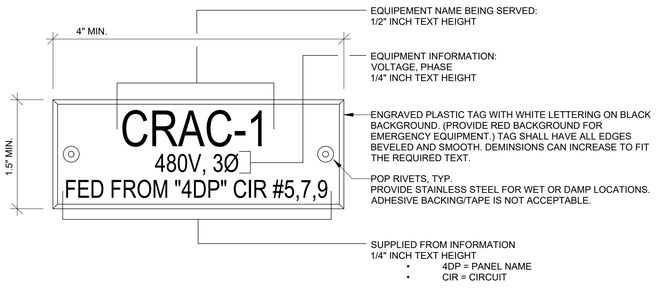
Project No.: 83X98735

Drawing Title:
DETAILS

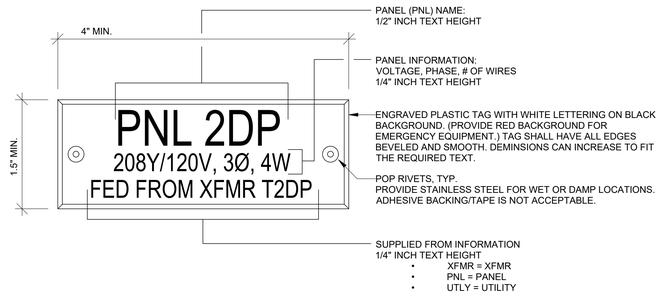
Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-506



1 EQUIPMENT LABELING DETAIL
NOT TO SCALE



2 PANEL LABELING DETAIL
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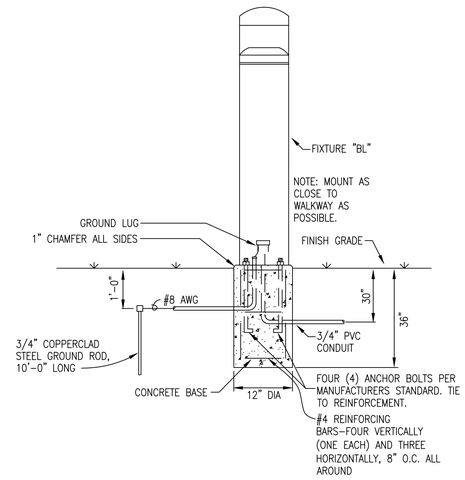
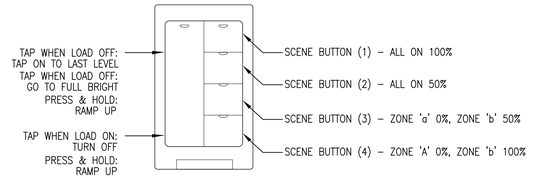
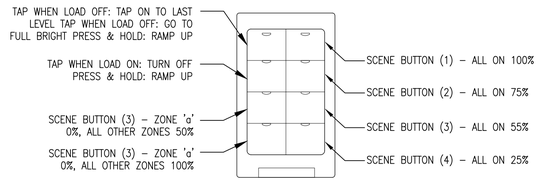


3 BOLLARD LIGHTING DETAIL
NOT TO SCALE



4 5 BUTTON LOW VOLTAGE SWITCH
NOT TO SCALE



5 8 BUTTON LOW VOLTAGE SWITCH
NOT TO SCALE

SCENE SELECTION NOTE
LIGHTING CONTROLS INSTALLER SHALL COORDINATE WITH JACOBS TITAN FOR FINAL SCENE SELECTIONS PRIOR TO PROGRAMMING.

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LIGHTING CONTROLS INSTALLER SHALL COORDINATE WITH JACOBS TITAN FOR FINAL SCENE SELECTIONS PRIOR TO PROGRAMMING.

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Donald J McCarthy

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FL Authorization No: 30167
FL PE No: 59251
Job Number: 24-007

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M. BAGWELL LICENSE NO. 59251 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/24

Project No.: 83X98735

Drawing Title:
DETAILS

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-507

TRANSFORMER SCHEDULE

TRANSFORMER ID	VOLTAGE PRIMARY	VOLTAGE SECONDARY	ϕ	WIRE	kVA	GEC TO BLDG STEEL
T-A	480Y/277	208Y/120	3	4	75	#2
T-L	480Y/277	208Y/120	3	4	75	#2
T-M	480Y/277	208Y/120	3	4	75	#2
T-1M	480Y/277	208Y/120	3	4	150	#1/0
T-1R	480Y/277	208Y/120	3	4	150	#1/0
T-2M	480Y/277	208Y/120	3	4	150	#1/0
T-2R	480Y/277	208Y/120	3	4	150	#1/0

PRIOR TO SUBMITTING BID, ELECTRICAL CONTRACTOR SHALL COORDINATE WITH POWER & TELEPHONE UTILITIES FOR EXACT SERVICE REQUIREMENTS AND LOCATIONS. ANY ASSOCIATED FEES SHALL BE INCLUDED IN BID.

SINGLE LINE DIAGRAM GENERAL NOTES

1. LOCATION OF MAIN BREAKERS AND FEEDERS INTO EQUIPMENT IS NOT INTENDED TO SHOW TOP OR BOTTOM MOUNTED MAIN BREAKER OR BOTTOM, TOP OR SIDE FEEDER ENTRY. THE SINGLE LINE DIAGRAM IS PURELY DIAGRAMMATIC. CONTRACTOR SHALL VERIFY PROPER BREAKER POSITIONS AND FEEDER ENTRIES INTO EQUIPMENT AND PROVIDE AS REQUIRED.
2. THIS IS AN ELECTRICAL POWER DISTRIBUTION SYSTEM SINGLE LINE DIAGRAM, NOT ALL MECHANICAL EQUIPMENT CIRCUITS AND BRANCH CIRCUITS ARE SHOWN.
3. CONTRACTOR SHALL MARK ALL POWER FEEDER CONDUCTORS FOR THE PROPER PHASE SEQUENCE AND LOADING. CONTRACTOR SHALL TEST EACH FEEDER AND EQUIPMENT FEEDERS WITH A PHASE METER PRIOR TO CONNECTING LOADS.
4. SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND ONCE ALL WIRING HAS BEEN INSTALLED.
5. CONTRACTOR SHALL PROVIDE A FULL SIZE COPY OF THE AS BUILT POWER RISER DIAGRAM FRAMED BEHIND PLEXIGLASS SCREWED TO THE WALL NEAR THE MAIN SERVICE SWITCHBOARD.

ELECTRIC METER FURNISHED BY UTILITY COMPANY AND INSTALLED BY CONTRACTOR; COORDINATE ALL REQUIREMENTS WITH UTILITY COMPANY PRIOR TO INSTALL

1 1/4"

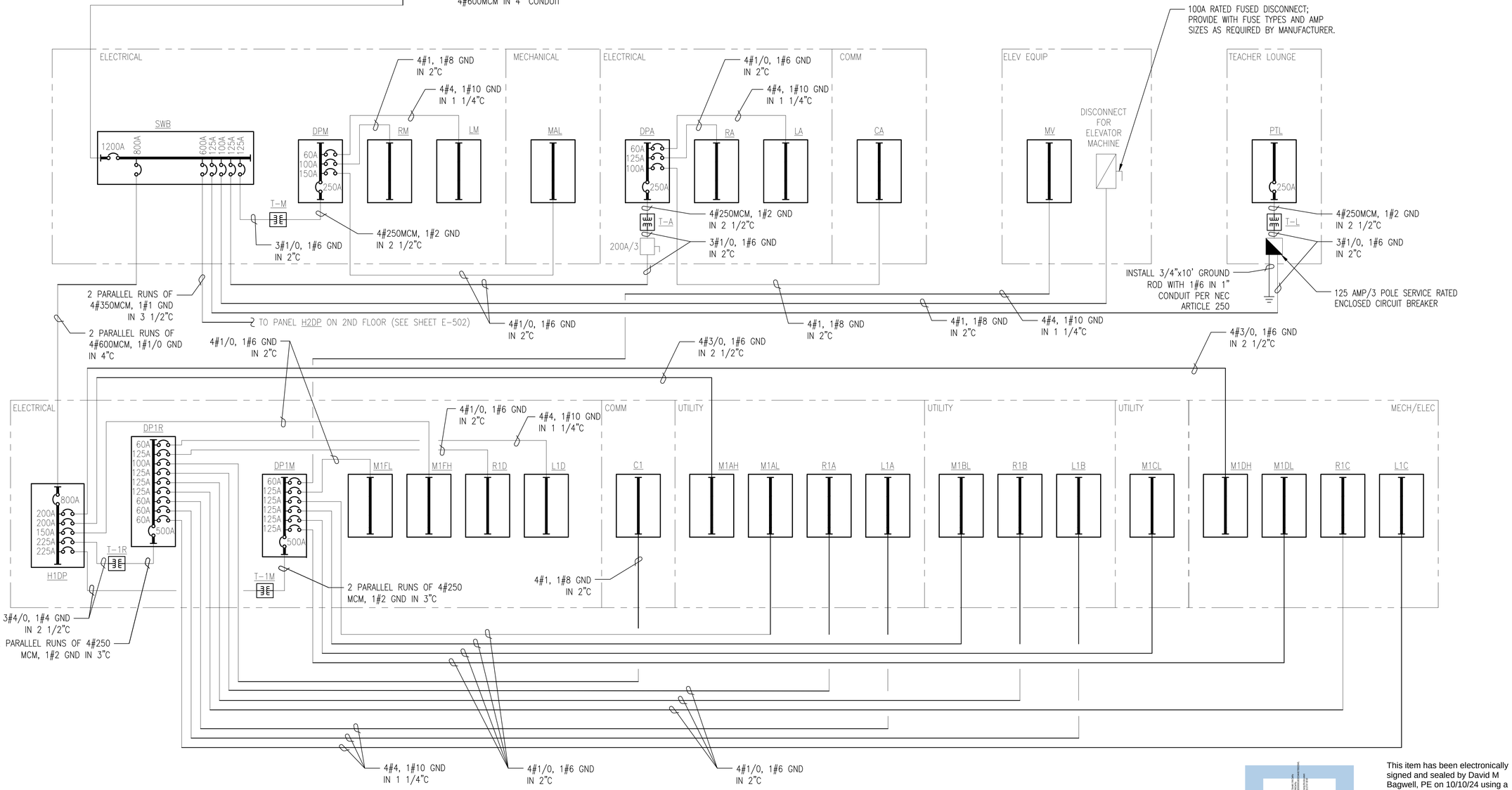
PAD MOUNT TRANSFORMER INSTALLED BY UTILITY COMPANY

UNDERGROUND PRIMARY BY UTILITY COMPANY

CONCRETE PAD INSTALLED BY CONTRACTOR PER UTILITY REQUIREMENTS

STRUCTURAL FOUNDATION COORDINATION NOTE:
INSTALL THE BOTTOM OF CONDUITS AT THE TOP OF THE STRUCTURAL FOOTER WHERE TRANSITIONING FROM EXTERIOR TO INTERIOR OF THE BUILDING FOOTPRINT. TYPICAL CONDUIT 36" BELOW GRADE DEPTHS SHALL TRANSITION TO THE TOP OF THE FOOTER DEPTH WITHIN 5' OF THE BUILDING FOOTPRINT. CONDUITS SHALL NOT PENETRATE FOUNDATIONS. COORDINATE WITH STRUCTURAL DRAWINGS PRIOR TO CONDUIT ROUGH-IN.

3 PARALLEL RUNS OF 4#600MCM IN 4" CONDUIT



1 E-601 FIRST FLOOR - POWER RISER DIAGRAM
NOT TO SCALE

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Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M. BAGWELL LICENSED PE No. 59251 10/10/24 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
FIRST FLOOR - POWER RISER DIAGRAM

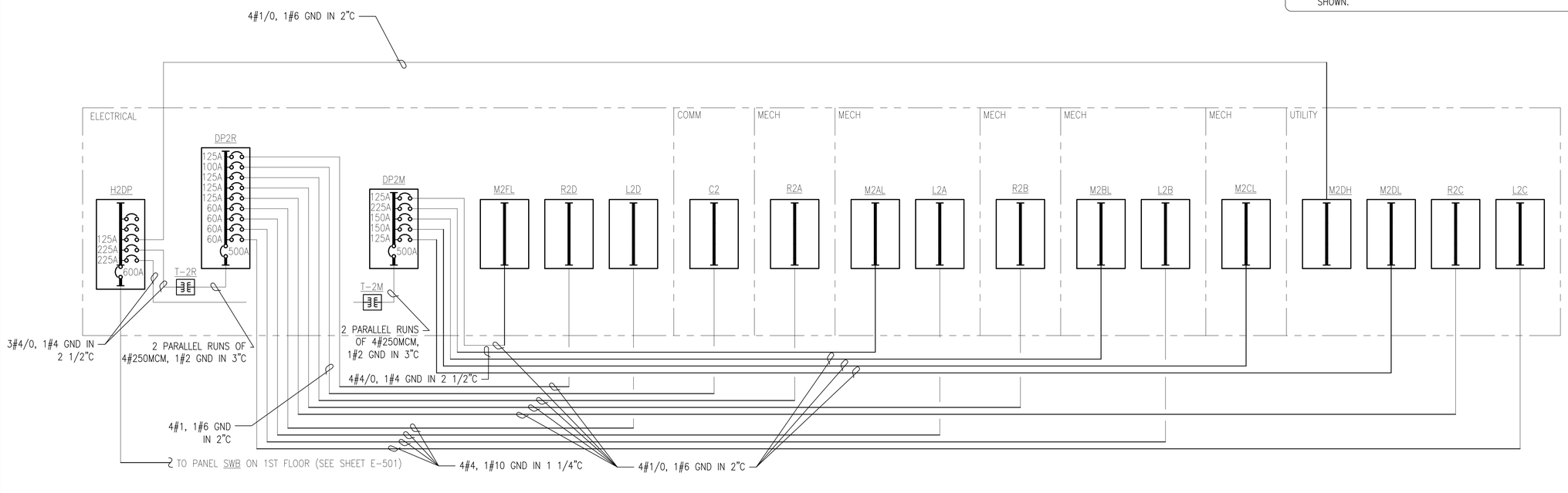
Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-601

SINGLE LINE DIAGRAM GENERAL NOTES

1. LOCATION OF MAIN BREAKERS AND FEEDERS INTO EQUIPMENT IS NOT INTENDED TO SHOW TOP OR BOTTOM MOUNTED MAIN BREAKER OR BOTTOM, TOP OR SIDE FEEDER ENTRY. THE SINGLE LINE DIAGRAM IS PURELY DIAGRAMMATIC. CONTRACTOR SHALL VERIFY PROPER BREAKER POSITIONS AND FEEDER ENTRIES INTO EQUIPMENT AND PROVIDE AS REQUIRED.
2. THIS IS AN ELECTRICAL POWER DISTRIBUTION SYSTEM SINGLE LINE DIAGRAM, NOT ALL MECHANICAL EQUIPMENT CIRCUITS AND BRANCH CIRCUITS ARE SHOWN.



1 / E-602 SECOND FLOOR - POWER RISER DIAGRAM
NOT TO SCALE

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Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY • SCHOOL DISTRICT •

Seal:

DAVID M. BAGWELL LICENSE NO. 59251 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/24

Project No.: 83X98735

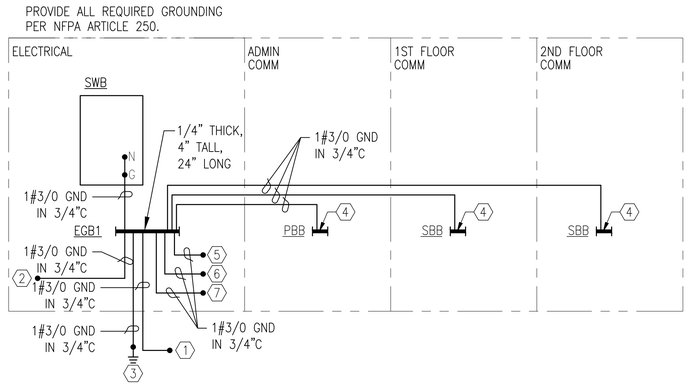
Drawing Title:
SECOND FLOOR - POWER RISER DIAGRAM

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-602

PROVIDE ALL REQUIRED GROUNDING
PER NFPA ARTICLE 250.



LABELING NOTE:
PROVIDE A BRASS TAG AT EACH BUSBAR CONNECTION. ENGRAVE THE TAG FOR THE SYSTEM BEING CONNECTED. (EXAMPLE: "SERVICE GROUND", "FIRE ALARM SYSTEM", "MAIN TELECOM GROUND", "BUILDING STEEL", "COLD WATER PIPE", "ENCASED ELECTRODE", ETC)

1 E-603 GROUNDING RISER DIAGRAM
NOT TO SCALE

KEYNOTES:

1. CONNECT TO FIRE ALARM SYSTEM ANTENNA GROUND
2. CONNECT TO BUILDING STEEL PER NEC 250.52
3. 3/4" X 10' COPPERCLAD GROUNDING ROD.
4. SEE TELECOMMUNICATIONS DRAWINGS FOR GROUNDING REQUIREMENTS.
5. TO DRY TYPE TRANSFORMER.
6. TO METAL UNDERGROUND WATER PIPE 10' OR MORE IN LENGTH.
7. TO CONCRETE ENCASED ELECTRODE AT LEAST 20' IN LENGTH.

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Seal:

DAVID M. BAGWELL LICENSED No. 59251 10/10/24 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Donald J McCarthy

Project No.: 83X98735

Drawing Title:
GROUNDING RISER DIAGRAM

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-603

NEW SWITCHBOARD SCHEDULE
SWB

BREAKER INTERRUPTING CAPACITY: 65,000
480/277 VOLT, 3ø, 4W
1200 AMP RATED (1)

BRACED FOR MINIMUM 65,000 AMPS SYMMETRICAL

CKT	EQUIPMENT SERVED	BREAKER TRIP	BREAKER POLE	LOAD (KVA)
1	PANEL 'DPM' VIA DRY TYPE XFRM	125	3	49.8
2	PANEL 'DPA' VIA DRY TYPE XFRM	125	3	40.3
3	PANEL 'PTL' VIA DRY TYPE XFRM	125	3	36.7
4	PANEL 'H1DP'	800	3	413.2
5	PANEL 'H2DP'	600	3	263.7
6	ELEVATOR	100 (2)	3	33.2
7	SPACE ONLY	--	3	--
8	SPACE ONLY	--	3	--
9	SPACE ONLY	--	3	--
10	SURGE SUPPRESSOR	30	3	--

TOTAL CONNECTED LOAD: 836.9 KVA
ESTIMATED DEMAND LOAD: 684.3 KVA

(1) MAIN BREAKER SHALL HAVE GROUND FAULT PROTECTION
(2) SHUNT TRIP BREAKER, COORDINATE FINAL BREAKER SIZE WITH ELEVATOR EQUIPMENT FURNISHED. ADJUST BREAKER SIZE AS REQUIRED BY MANUFACTURER.

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL DPA

120/208 VOLT 3ø 4W
250 AMP MAIN BREAKER

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	↑	↑	↑	8.58			--				1	SPACE ONLY	2
3	PANEL RA	3	125		8.10			--			1	SPACE ONLY	4
5	↑	↑	↑			6.24			--		1	SPACE ONLY	6
7	↑	↑	↑	1.37			--				1	SPACE ONLY	8
9	PANEL LA	3	60		1.27			--			1	SPACE ONLY	10
11	↑	↑	↑			0.49			--		1	SPACE ONLY	12
13	↑	↑	↑	4.32			--				1	SPACE ONLY	14
15	PANEL CA	3	100		6.30			--			1	SPACE ONLY	16
17	↑	↑	↑			3.12			--		1	SPACE ONLY	18
19	SPACE ONLY	1	--	--			--				1	SPACE ONLY	20
21	SPACE ONLY	1	--		--			--			1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--		1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--				1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--			1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--		1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	38
39	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 14.27 (A) | 15.67 (B) | 9.85 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL DPM

120/208 VOLT 3ø 4W
250 AMP MAIN BREAKER

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	↑	↑	↑	2.58			--				1	SPACE ONLY	2
3	PANEL RM	3	100		2.70			--			1	SPACE ONLY	4
5	↑	↑	↑			1.62			--		1	SPACE ONLY	6
7	↑	↑	↑	2.56			--				1	SPACE ONLY	8
9	PANEL LM	3	60		2.50			--			1	SPACE ONLY	10
11	↑	↑	↑			2.42			--		1	SPACE ONLY	12
13	↑	↑	↑	12.6			--				1	SPACE ONLY	14
15	PANEL MAL	3	150		11.0			--			1	SPACE ONLY	16
17	↑	↑	↑			11.9			--		1	SPACE ONLY	18
19	SPACE ONLY	1	--	--			--				1	SPACE ONLY	20
21	SPACE ONLY	1	--		--			--			1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--		1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--				1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--			1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--		1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	38
39	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 17.74 (A) | 16.20 (B) | 15.94 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL PTL

120/208 VOLT 3ø 4W
250 AMP MAIN BREAKER

RECESSED MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	REC-WATER FOUNTAIN	1	20	1.2			.30			20	1	LTS-STORAGE	2
3	REC-WATER FOUNTAIN	1	20		1.2			.83		20	1	LTS-TEACHERS LOUNGE/RESTROOM	4
5	REC-REFRIGERATOR	1	20			1.2			.27	20	1	LTS-RESTROOM	6
7	REC-BREAK(GARBAGE DISPOSAL)	1	20	1.2			.24			20	1	LTS-EXTERIOR	8
9	REC-BREAK	1	20		.18			.36		20	1	FACP	10 (1)
11	REC-BREAK	1	20			.18			.20	20	1	ACCESS CONTROL PANEL	12
13	REC-BREAK	1	20	.18			.40			20	1	REC-TELECOMMUNICATIONS CAB.	14
15	REC-BREAK	1	20		.18			.40		20	1	REC-TELECOMMUNICATIONS	16
17	REC-TEACHERS LOUNGE	1	20			.90			2.4	30	2	30A REC-RACK	18
19	REC-TEACHERS LOUNGE	1	20	.72			2.4			↑	↑	↑	20
21	REC-TEACHERS LOUNGE	1	20		.54			.36		20	1	ACD	22
23	REC-STORAGE	1	20			.90			--	20	1	SPARE	24
25	REC-STORAGE	1	20	.90			--			20	1	SPARE	26
27	REC-RESTROOM	1	20		.36			2.8		30	2	AHU-TL	28
29	REC-RESTROOM	1	20			.72			2.8	↑	↑	↑	30
31	REC-EXTERIOR/MECH	1	20	.54			2.4			↑	↑	↑	32
33	SPARE	1	20		--			2.4		40	3	HP-TL	34
35	SPARE	1	20			--			2.4	↑	↑	↑	36
37	SPARE	1	20	--			1.67			↑	↑	↑	38
39	SPARE	1	20		--			1.67		20	3	EWH-4	40
41	SPARE	1	20			--			1.67	↓	↓	↓	42
43	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	44
45	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	46
47	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	48
49	↑	↑	↑	--			--			--	1	SPACE ONLY	50
51	SURGE SUPPRESSOR	3	30		--			--		--	1	SPACE ONLY	52
53	↓	↓	↓			--			--	--	1	SPACE ONLY	54

TOTAL CONNECTED KVA: 12.15 (A) | 11.28 (B) | 13.64 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

(1) PROVIDE RED LOCK-ON BREAKER.

SWITCHBOARD/PANELBOARD NOTES:

1. PANELBOARDS SHALL BE INSTALLED WITH ALL CLEARANCES MAINTAINED IN ACCORDANCE WITH THE NEC.
2. ALL PANELBOARDS SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THAT LISTING.
3. FURNISH EACH PANELBOARD WITH A GROUND BAR BONDED TO THE PANEL ENCLOSURE.
4. THE TERMINATION POINT OF THE FEEDER SERVING EACH ASSEMBLY SHALL BE AT THE NEAREST POINT OF THE FEEDER ENTRY INTO THE PANEL, SO AS TO MINIMIZE CONDUCTOR FILL IN THE ENCLOSURE. COORDINATE TOP/BOTTOM FEED PROVISIONS WITH EACH FEEDER INSTALL.
5. ALL FLUSH MOUNTED PANELBOARDS SHALL BE PROVIDED WITH AT LEAST SIX (6) 3/4" SPARE CONDUITS STUBBED TO ABOVE THE NEAREST ACCESSIBLE CEILING.
6. PANELBOARDS SHALL BE FULLY RATED. SERIES RATED PANELBOARDS WILL NOT BE ACCEPTED.
7. ALL PANELBOARDS SHALL BE "DOOR-IN-DOOR" OR "HINGED-FRONT-TRIM" CONSTRUCTION.
8. COMPLY WITH NEC ARTICLE 408.4. PROVIDE A TYPED CIRCUIT DIRECTORY THAT INDICATES WHAT EACH CIRCUIT IS SERVING. FOR LIGHTING AND RECEPTACLE CIRCUITS, INCLUDE THE ROOM NUMBER IN THE CIRCUIT DESCRIPTION ON THE DIRECTORY.
9. CLEARLY MARK TO COMPLY WITH NEC ARTICLE 110.16 WITH REGARD TO ARC FLASH HAZARDS.

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Seal:

DAVID M BAGWELL
LICENSED
No. 59251
10/10/24
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
PANEL SCHEDULES

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-604

277/480 VOLT 3ø 4W
800 AMP MAIN BREAKER (1)

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL H1DP

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1				28.9			36.8						2
3	PANEL M1AH	3	200		28.9			36.8		225	3	PANEL DP1M VIA DRY TYPE XFRM	4
5						28.9			36.7				6
7				18.6			31.3						8
9	PANEL M1DH	3	200		18.6			30.3		225	3	PANEL DP1R VIA DRY TYPE XFRM	10
11						18.6			29.7				12
13				21.7			.46			20	2	LTS-PARKING LOT	14
15	PANEL M1FH	3	150		21.7			.46		20	2		16
17						21.7			.46	20	2	LTS-PARKING LOT	18
19	SPACE ONLY	1	--	--			.46						20
21	SPACE ONLY	1	--		--			1.19		20	2	LTS-PARKING LOT	22
23	SPACE ONLY	1	--			--			1.19				24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37				--			--			--	1	SPACE ONLY	38
39	SURGE SUPPRESSOR	3	30		--			--		--	1	SPACE ONLY	40
41						--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 138.2 (A) | 137.7 (B) | 137.3 (C)

MINIMUM INTERRUPTING CAPACITY: 35,000 AMPS SYMMETRICAL

(1) MAIN BREAKER SHALL HAVE GROUND FAULT PROTECTION

120/208 VOLT 3ø 4W
500 AMP MAIN BREAKER

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL DP1R

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1				3.72			.92						2
3	PANEL C1	3	100		3.72			.96		60	3	PANEL L1A	4
5						5.16			1.12				6
7				4.98			1.89						8
9	PANEL R1A	3	125		5.34			1.43		60	3	PANEL L1B	10
11						6.48			.93				12
13				6.42			1.20						14
15	PANEL R1B	3	125		6.46			1.88		60	3	PANEL L1C	16
17						5.40			.84				18
19				5.40			2.44						20
21	PANEL R1C	3	125		5.22			2.07		60	3	PANEL L1D	22
23						4.14			1.95				24
25				4.02			--			--	1	SPACE ONLY	26
27	PANEL R1D	3	125		3.24			--		--	1	SPACE ONLY	28
29						4.14			--	--	1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37				--			--			--	1	SPACE ONLY	38
39	SURGE SUPPRESSOR	3	30		--			--		--	1	SPACE ONLY	40
41						--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 30.99 (A) | 30.32 (B) | 30.16 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
500 AMP MAIN BREAKER

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL DP1M

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1				7.9			1.2						2
3	PANEL M1AL	3	125		10.2			1.2		60	3	PANEL MV	4
5						10.2			1.2				6
7				7.2			--			--	1	SPACE ONLY	8
9	PANEL M1BL	3	125		7.2			--		--	1	SPACE ONLY	10
11						4.8			--	--	1	SPACE ONLY	12
13				7.2			--			--	1	SPACE ONLY	14
15	PANEL M1CL	3	125		7.2			--		--	1	SPACE ONLY	16
17						4.8			--	--	1	SPACE ONLY	18
19				2.4			--			--	1	SPACE ONLY	20
21	PANEL M1DL	3	125		2.4			--		--	1	SPACE ONLY	22
23						4.8			--	--	1	SPACE ONLY	24
25				4.8			--			--	1	SPACE ONLY	26
27	PANEL M1FL	3	125		4.8			--		--	1	SPACE ONLY	28
29						4.8			--	--	1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	38
39	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 30.7 (A) | 33.0 (B) | 30.6 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

277/480 VOLT 3ø 4W
600 AMP MAIN BREAKER

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL H2DP

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1				12.0			39.4						2
3	AHU-MP	3	60		12.0			38.7		225	3	PANEL DP2M VIA DRY TYPE XFRM	4
5						12.0			38.7				6
7	SPACE ONLY	1	--	--			29.8						8
9	SPACE ONLY	1	--		--			29.7		225	3	PANEL DP2R VIA DRY TYPE XFRM	10
11	SPACE ONLY	1	--			--			28.0				12
13	SPACE ONLY	1	--	--			7.8						14
15	SPACE ONLY	1	--		--			7.8		125	3	PANEL M2DH	16
17	SPACE ONLY	1	--			--			7.8				18
19	SPACE ONLY	1	--	--			--				1	SPACE ONLY	20
21	SPACE ONLY	1	--		--			--			1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--		1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--				1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--			1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--		1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	38
39	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 89.0 (A) | 88.2 (B) | 86.5 (C)

MINIMUM INTERRUPTING CAPACITY: 35,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
500 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL DP2M

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1				14.3			--			--	1	SPACE ONLY	2
3	PANEL M2AL	3	225		11.4			--		--	1	SPACE ONLY	4
5						11.4			--	--	1	SPACE ONLY	6
7				8.4			--			--	1	SPACE ONLY	8
9	PANEL M2BL	3	150		8.4			--		--	1	SPACE ONLY	10
11						5.6			--	--	1	SPACE ONLY	12
13				5.6			--			--	1	SPACE ONLY	14
15	PANEL M2CL	3	150		8.4			--		--	1	SPACE ONLY	16
17						8.4			--	--	1	SPACE ONLY	18
19				3.4			--			--	1	SPACE ONLY	20
21	PANEL M2DL	3	125		2.8			--		--	1	SPACE ONLY	22
23						5.6			--	--	1	SPACE ONLY	24
25				7.7			--			--	1	SPACE ONLY	26
27	PANEL M2FL	3	125		7.7			--		--	1	SPACE ONLY	28
29						7.7			--	--	1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	38
39	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 39.4 (A) | 38.7 (B) | 38.7 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
500 AMP MAIN BREAKER

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL DP2R

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1				3.72			.97						2
3	PANEL C2	3	100		3.72			1.37		60	3	PANEL L2A	4
5						4.98			.64				6
7				5.4			1.29						8
9	PANEL R2A	3	125		4.32			1.29		60	3	PANEL L2B	10
11						4.32			1.61				12
13				5.04			1.07						14
15	PANEL R2B	3	125		5.76			1.40		60	3	PANEL L2C	16
17						5.22			1.56				18
19				4.14			2.13						20
21	PANEL R2C	3	125		4.86			1.63		60	3	PANEL L2D	22
23						4.32			1.18				24
25				4.8			--			--	1	SPACE ONLY	26
27	PANEL R2D	3	125		4.68			--		--	1	SPACE ONLY	28
29						5.04			--	--	1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37				--			--			--	1	SPACE ONLY	38
39	SURGE SUPPRESSOR	3	30		--			--		--	1	SPACE ONLY	40
41						--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 28.56 (A) | 29.10 (B) | 28.84 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

Jacobs | TITAN TECHNOLOGIES

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216 E. Government St.
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FL Authorization No: 30167
FL PE No: 59251
Job Number: 24-007

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M. BAGWELL LICENSED PROFESSIONAL ENGINEER No. 59251 10/10/24 STATE OF FLORIDA

This item has been electronically signed and sealed by David M Bagwell, PE on 10/10/24 using a Digital Signature.

Printed Copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Donald J McCarthy

Project No.: 83X98735

Drawing Title:
PANEL SCHEDULES

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-605

120/208 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL RA

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER		KVA/PHASE			KVA/PHASE			BREAKER		LOAD DESCRIPTION	CKT
		POLE	AMP	A	B	C	A	B	C	AMP	POLE		
1	REC-NURSE (REFRIGERATOR)	1	20	1.2			.90			20	1	REC-OFFICE	2
3	REC-NURSE	1	20		.72			1.08		20	1	REC-PRINCIPAL	4
5	REC-NURSE	1	20			.72			.18	20	1	REC-PRINCIPAL RESTROOM	6
7	REC-NURSE	1	20	1.08			.72			20	1	REC-SMALL CONF	8
9	REC-BOOK	1	20		1.08			1.08		20	1	REC-ELEC/STOR/CORR	10
11	REC-WORK/MAIL (PRINTER)	1	20			1.2			.54	20	1	REC-JAN/RESTROOM	12
13	REC-WORK/MAIL	1	20	.90			.90			20	1	REC-RECEPTION	14
15	REC-STORAGE	1	20		.54			1.08		20	1	REC-RECEPTION	16
17	REC-OFFICE	1	20			.90			.90	20	1	REC-GUIDANCE	18
19	REC-BREAK	1	20	.54			.90			20	1	REC-GUIDANCE	20
21	REC-BREAK (REFRIGERATOR)	1	20		1.2			.72		20	1	REC-CONFERENCE	22
23	REC-BREAK	1	20			.18			.54	20	1	REC-CONFERENCE	24
25	REC-BREAK	1	20	.18			.90			20	1	REC-AP	26
27	REC-BREAK	1	20		.36			.90		20	1	ACD	28
29	REC-RECEPTION	1	20			.36			.72	20	1	LOBBY	30
31	REC-RECEPTION	1	20	.36						20	1	SPARE	32
33	SPARE	1	20							20	1	SPARE	34
35	SPARE	1	20							20	1	SPARE	36
37	SPARE	1	20							--	1	SPACE ONLY	38
39	SPACE ONLY	1	--							--	1	SPACE ONLY	40
41	SPACE ONLY	1	--							--	1	SPACE ONLY	42

TOTAL CONNECTED KVA

A	B	C
8.58	8.76	6.24

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL R1A

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER		KVA/PHASE			KVA/PHASE			BREAKER		LOAD DESCRIPTION	CKT
		POLE	AMP	A	B	C	A	B	C	AMP	POLE		
1	REC-WATER FOUNTAIN	1	20	1.2			1.08			20	1	REC-MEN/WOMEN	2
3	REC-WATER FOUNTAIN	1	20		1.2			.72		20	1	REC-CORRIDOR	4
5	REC-CLASSROOM	1	20			1.08			1.08	20	1	REC-CLASSROOM	6
7	REC-CLASSROOM	1	20	.90			.90			20	1	REC-CLASSROOM	8
9	REC-RESTROOM/UTILITY	1	20		.90			.72		20	1	REC-RESTROOM	10
11	REC-OFFICE	1	20			1.08			1.08	20	1	REC-OFFICE	12
13	REC-MECH	1	20	.54			.36			20	1	REC-MECH	14
15	REC-CLASSROOM	1	20		.90			.90		20	1	REC-CLASSROOM	16
17	REC-CLASSROOM	1	20			1.08			1.08	20	1	REC-CLASSROOM	18
19	SPARE	1	20							20	1	SPARE	20
21	SPARE	1	20							20	1	SPARE	22
23	SPARE	1	20							20	1	SPARE	24
25	SPACE ONLY	1	--							--	1	SPACE ONLY	26
27	SPACE ONLY	1	--							--	1	SPACE ONLY	28
29	SPACE ONLY	1	--							--	1	SPACE ONLY	30
31	SPACE ONLY	1	--							--	1	SPACE ONLY	32
33	SPACE ONLY	1	--							--	1	SPACE ONLY	34
35	SPACE ONLY	1	--							--	1	SPACE ONLY	36
37	SPACE ONLY	1	--							--	1	SPACE ONLY	38
39	SPACE ONLY	1	--							--	1	SPACE ONLY	40
41	SPACE ONLY	1	--							--	1	SPACE ONLY	42

TOTAL CONNECTED KVA

A	B	C
4.98	5.34	6.48

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL RIB

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER		KVA/PHASE			KVA/PHASE			BREAKER		LOAD DESCRIPTION	CKT
		POLE	AMP	A	B	C	A	B	C	AMP	POLE		
1	REC-CLASSROOM	1	20	.90			1.2			20	1	REC-WATER FOUNTAIN	2
3	REC-CLASSROOM	1	20		1.08			.54		20	1	REC-CORRIDOR	4
5	REC-CLASSROOM	1	20			1.08			.90	20	1	REC-CLASSROOM	6
7	REC-CLASSROOM	1	20	.90			1.08			20	1	REC-CLASSROOM	8
9	REC-OFFICE	1	20		1.08			1.08		20	1	REC-CLASSROOM	10
11	REC-RESTROOM/UTILITY	1	20			.90			.90	20	1	REC-CLASSROOM	12
13	REC-MECH	1	20	.54			1.08			20	1	REC-OFFICE	14
15	REC-CLASSROOM	1	20		.72			.90		20	1	REC-RESTROOM/UTILITY	16
17	REC-CLASSROOM	1	20			1.08			.54	20	1	REC-MECH	18
19	SPARE	1	20				.72			20	1	REC-CLASSROOM	20
21	SPARE	1	20					1.08		20	1	REC-CLASSROOM	22
23	SPARE	1	20							20	1	SPARE	24
25	SPACE ONLY	1	--							20	1	SPARE	26
27	SPACE ONLY	1	--							20	1	SPARE	28
29	SPACE ONLY	1	--							--	1	SPACE ONLY	30
31	SPACE ONLY	1	--							--	1	SPACE ONLY	32
33	SPACE ONLY	1	--							--	1	SPACE ONLY	34
35	SPACE ONLY	1	--							--	1	SPACE ONLY	36
37	SPACE ONLY	1	--							--	1	SPACE ONLY	38
39	SPACE ONLY	1	--							--	1	SPACE ONLY	40
41	SPACE ONLY	1	--							--	1	SPACE ONLY	42

TOTAL CONNECTED KVA

A	B	C
6.42	6.48	5.40

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL R1C

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER		KVA/PHASE			KVA/PHASE			BREAKER		LOAD DESCRIPTION	CKT
		POLE	AMP	A	B	C	A	B	C	AMP	POLE		
1	REC-EXTERIOR	1	20	.36			.90			20	1	REC-STORAGE	2
3	REC-STORAGE	1	20		.72			1.08		20	1	REC-CLASSROOM	4
5	REC-MECH/ELEC	1	20			.72			.90	20	1	REC-CLASSROOM	6
7	REC-OFFICE	1	20	1.08			1.08			20	1	REC-OFFICE	8
9	REC-CLASSROOM	1	20		1.08			.90		20	1	REC-RESTROOM	10
11	REC-CLASSROOM	1	20			1.08			.36	20	1	REC-EXTERIOR/MECH	12
13	REC-CLASSROOM	1	20	1.08			.18			20	1	ACD	14
15	REC-CLASSROOM	1	20		.90					20	1	SPARE	16
17	REC-OFFICE	1	20			1.08				20	1	SPARE	18
19	REC-RESTROOM/UTILITY	1	20	.90						20	1	SPARE	20
21	REC-CORRIDOR	1	20		.54					--	1	SPACE ONLY	22
23	SPARE	1	20							--	1	SPACE ONLY	24
25	SPARE	1	20							--	1	SPACE ONLY	26
27	SPARE	1	20							--	1	SPACE ONLY	28
29	SPACE ONLY	1	--							--	1	SPACE ONLY	30
31	SPACE ONLY	1	--							--	1	SPACE ONLY	32
33	SPACE ONLY	1	--							--	1	SPACE ONLY	34
35	SPACE ONLY	1	--							--	1	SPACE ONLY	36
37	SPACE ONLY	1	--							--	1	SPACE ONLY	38
39	SPACE ONLY	1	--							--	1	SPACE ONLY	40
41	SPACE ONLY	1	--							--	1	SPACE ONLY	42

TOTAL CONNECTED KVA

A	B	C
5.40	5.22	4.14

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL R1D

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER		KVA/PHASE			KVA/PHASE			BREAKER		LOAD DESCRIPTION	CKT
		POLE	AMP	A	B	C	A	B	C	AMP	POLE		
1	ACD	1	20	.90			.54			20	1	REC-RESTROOM/JANITOR	2
3	REC-ELEC	1	20		.54			.90		20	1	REC-OFFICE	4
5	REC-GATHERING AREA	1	20			.72			1.08	20	1	REC-CLASSROOM	6
7	REC-RESTROOM/STAFF	1	20	.54			1.08			20	1	REC-CLASSROOM	8
9	REC-OFFICE	1	20		.90			.36		20	1	REC-MECH	10
11	REC-CLASSROOM	1	20			1.08			.18	20	1	REC-ALCOVE	12
13	REC-CLASSROOM	1	20	1.08			.18			20	1	REC-ALCOVE	14
15	REC-MECH	1	20		.36			.18		20	1	REC-ALCOVE	16
17	REC-GATHERING AREA	1	20			.90			.18	20	1	REC-ALCOVE	18
19	SPARE	1	20							20	1	SPARE	20
21	SPARE	1	20							20	1	SPARE	22
23	SPARE	1	20							20	1	SPARE	24
25	SPACE ONLY	1	--							--	1	SPACE ONLY	26
27	SPACE ONLY	1	--							--	1	SPACE ONLY	28
29	SPACE ONLY	1	--							--	1	SPACE ONLY	30
31	SPACE ONLY	1	--							--	1	SPACE ONLY	32
33	SPACE ONLY	1	--							--	1	SPACE ONLY	34
35	SPACE ONLY	1	--							--	1	SPACE ONLY	36
37	SPACE ONLY	1	--							--	1	SPACE ONLY	38
39	SPACE ONLY	1	--							--	1	SPACE ONLY	40
41	SPACE ONLY	1	--							--	1	SPACE ONLY	42

TOTAL CONNECTED KVA

A	B	C
4.32	3.24	4.14

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL RM

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER		KVA/PHASE			KVA/PHASE			BREAKER		LOAD DESCRIPTION	CKT
		POLE	AMP	A	B	C	A	B	C	AMP	POLE		
1	REC-MULTIPURPOSE ROOM	1	20	.72			.60			20	1	ACD	2
3	REC-MULTIPURPOSE ROOM	1	20		.72			1.08		20	1	REC-EXTERIOR	4
5	REC-MULTIPURPOSE ROOM	1	20			.90			.54	20	1	REC-EXTERIOR	6
7	REC-OFFICE	1	20	.72			.36			20	1	REC-EXTERIOR	8
9	REC-STOR	1	20		.54			.36		20	1	FACP	10 (1)
11	AV CABINET	1	20			.36			.18	20	1	REC-PROJECTOR	12
13	SPARE	1	20				.18			20	1	PROJECTOR SCREEN	14
15	SPARE	1	20							20	1	SPARE	16
17	SPACE ONLY	1	--							20	1	SPARE	18
19	SPACE ONLY	1	--							20	1	SPARE	20
21	SPACE ONLY	1	--							--	1	SPACE ONLY	22
23	SPACE ONLY	1	--							--	1	SPACE ONLY	24
25	SPACE ONLY	1	--							--	1	SPACE ONLY	26
27	SPACE ONLY	1	--							--	1	SPACE ONLY	28
29	SPACE ONLY	1	--							--	1	SPACE ONLY	30
31	SPACE ONLY	1	--							--	1	SPACE ONLY	32
33	SPACE ONLY	1	--							--	1	SPACE ONLY	34
35	SPACE ONLY	1	--							--	1	SPACE ONLY	36
37	↑	↑	↑	--						--	1	SPACE ONLY	38
39	SURGE SUPPRESSOR	3	30		--					--	1	SPACE ONLY	40
41	↓	↓	↓			--				--	1	SPACE ONLY	42

TOTAL CONNECTED KVA

A	B	C
2.58	2.70	1.98

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

(1) PROVIDE HANDLE LOCK-ON.

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Phone: (850) 462 - 8040
FL Authorization No: 30167
FL PE No: 59251
Job Number: 24-007

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal: DAVID M. BAGWELL LICENSE No. 59251 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/24

Project No.: 83X98735

Drawing Title:
PANEL SCHEDULES

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-606

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL R2A

120/208 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	REC-CLASSROOM	1	20	1.08			1.08			20	1	REC-CLASSROOM	2
3	REC-CLASSROOM	1	20		.90			.90		20	1	REC-CLASSROOM	4
5	REC-OFFICE	1	20			1.08			1.08	20	1	REC-OFFICE	6
7	REC-MECH/RESTROOM	1	20	.90			.90			20	1	REC-MECH/RESTROOM	8
9	REC-CLASSROOM	1	20		.90			.90		20	1	REC-CLASSROOM	10
11	REC-CLASSROOM	1	20			1.08			1.08	20	1	REC-CLASSROOM	12
13	REC-MECH/ELEC	1	20	.36			1.08			20	1	REC-FLEX SPACE	14
15	REC-CORRIDOR	1	20		.72					20	1	SPARE	16
17	SPARE	1	20							20	1	SPARE	18
19	SPARE	1	20							20	1	SPARE	20
21	SPARE	1	20							--	1	SPACE ONLY	22
23	SPACE ONLY	1	--							--	1	SPACE ONLY	24
25	SPACE ONLY	1	--							--	1	SPACE ONLY	26
27	SPACE ONLY	1	--							--	1	SPACE ONLY	28
29	SPACE ONLY	1	--							--	1	SPACE ONLY	30
31	SPACE ONLY	1	--							--	1	SPACE ONLY	32
33	SPACE ONLY	1	--							--	1	SPACE ONLY	34
35	SPACE ONLY	1	--							--	1	SPACE ONLY	36
37	SPACE ONLY	1	--							--	1	SPACE ONLY	38
39	SPACE ONLY	1	--							--	1	SPACE ONLY	40
41	SPACE ONLY	1	--							--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 5.40 (A) | 4.32 (B) | 4.32 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL R2B

120/208 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	REC-CLASSROOM	1	20	.90			.54			20	1	REC-CORR	2
3	REC-CLASSROOM	1	20		1.08			.90		20	1	REC-CLASSROOM	4
5	REC-CLASSROOM	1	20			1.08			1.08	20	1	REC-CLASSROOM	6
7	REC-CLASSROOM	1	20	.90			1.08			20	1	REC-CLASSROOM	8
9	REC-OFFICE	1	20		1.08			.90		20	1	REC-CLASSROOM	10
11	REC-MECH/RESTROOM	1	20			.90			1.08	20	1	REC-OFFICE	12
13	REC-CLASSROOM	1	20	.72			.90			20	1	REC-MECH/RESTROOM	14
15	REC-CLASSROOM	1	20		1.08			.72		20	1	REC-CLASSROOM	16
17	SPARE	1	20						1.08	20	1	REC-CLASSROOM	18
19	SPARE	1	20							20	1	SPARE	20
21	SPARE	1	20							20	1	SPARE	22
23	SPACE ONLY	1	--							20	1	SPARE	24
25	SPACE ONLY	1	--							--	1	SPACE ONLY	26
27	SPACE ONLY	1	--							--	1	SPACE ONLY	28
29	SPACE ONLY	1	--							--	1	SPACE ONLY	30
31	SPACE ONLY	1	--							--	1	SPACE ONLY	32
33	SPACE ONLY	1	--							--	1	SPACE ONLY	34
35	SPACE ONLY	1	--							--	1	SPACE ONLY	36
37	SPACE ONLY	1	--							--	1	SPACE ONLY	38
39	SPACE ONLY	1	--							--	1	SPACE ONLY	40
41	SPACE ONLY	1	--							--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 5.04 (A) | 5.76 (B) | 5.22 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL R2C

120/208 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	REC-MECH/ELEC/RESTROOM	1	20	.18			.54			20	1	REC-CORR	2
3	REC-OFFICE	1	20		1.08			.72		20	1	REC-CLASSROOM	4
5	REC-CLASSROOM	1	20			1.08			1.08	20	1	REC-CLASSROOM	6
7	REC-CLASSROOM	1	20	1.08			.90			20	1	REC-CLASSROOM	8
9	REC-CLASSROOM	1	20		1.08			1.08		20	1	REC-OFFICE	10
11	REC-CLASSROOM	1	20			.90			.90	20	1	REC-MECH/RESTROOM	12
13	REC-OFFICE	1	20	1.08			.36			20	1	REC-CLASSROOM/RESTROOM	14
15	REC-MECH/RESTROOM	1	20		.90					20	1	SPARE	16
17	REC-CLASSROOM/RESTROOM	1	20			.36				20	1	SPARE	18
19	SPARE	1	20							20	1	SPARE	20
21	SPARE	1	20							--	1	SPACE ONLY	22
23	SPARE	1	20							--	1	SPACE ONLY	24
25	SPACE ONLY	1	--							--	1	SPACE ONLY	26
27	SPACE ONLY	1	--							--	1	SPACE ONLY	28
29	SPACE ONLY	1	--							--	1	SPACE ONLY	30
31	SPACE ONLY	1	--							--	1	SPACE ONLY	32
33	SPACE ONLY	1	--							--	1	SPACE ONLY	34
35	SPACE ONLY	1	--							--	1	SPACE ONLY	36
37	SPACE ONLY	1	--							--	1	SPACE ONLY	38
39	SPACE ONLY	1	--							--	1	SPACE ONLY	40
41	SPACE ONLY	1	--							--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 4.14 (A) | 4.86 (B) | 4.32 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL R2D

120/208 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	REC-STOR/MAKER SPACE/BRIDGE	1	20	.36			1.2			20	1	REC-WATER FOUNTAIN	2
3	REC-MECH/RESTROOM/STAFF	1	20		.72			.72		20	1	REC-CORR	4
5	REC-OFFICE	1	20			.90			.90	20	1	REC-OFFICE	6
7	REC-CLASSROOM	1	20	.90			.54			20	1	REC-MECH/RESTROOM	8
9	REC-CLASSROOM	1	20		1.08			.90		20	1	REC-CLASSROOM	10
11	REC-ALCOVE	1	20			.18			1.08	20	1	REC-CLASSROOM	12
13	REC-ALCOVE	1	20	.18			.54			20	1	REC-MAKER SPACE(CEILING)	14
15	REC-ELEC	1	20		.18			.54		20	1	REC-MAKER SPACE(CEILING)	16
17	REC-MAKER SPACE	1	20			.90			.54	20	1	REC-MAKER SPACE(CEILING)	18
19	SPARE	1	20				.54			20	1	REC-MAKER SPACE(CEILING)	20
21	SPARE	1	20					.54		20	1	REC-MAKER SPACE(CEILING)	22
23	SPARE	1	20						.54	20	1	REC-MAKER SPACE(CEILING)	24
25	SPACE ONLY	1	--							20	1	SPARE	26
27	SPACE ONLY	1	--							20	1	SPARE	28
29	SPACE ONLY	1	--							20	1	SPARE	30
31	SPACE ONLY	1	--							--	1	SPACE ONLY	32
33	SPACE ONLY	1	--							--	1	SPACE ONLY	34
35	SPACE ONLY	1	--							--	1	SPACE ONLY	36
37	SPACE ONLY	1	--							--	1	SPACE ONLY	38
39	SPACE ONLY	1	--							--	1	SPACE ONLY	40
41	SPACE ONLY	1	--							--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 4.26 (A) | 4.68 (B) | 5.04 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

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FL Authorization No: 30167
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Job Number: 24-007

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY • SCHOOL DISTRICT

Seal:

DAVID M. BAGWELL LICENSED PROFESSIONAL ENGINEER No. 59251 10/10/24 STATE OF FLORIDA

Project No.: 83X98735

Drawing Title:
PANEL SCHEDULES

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-607

120/208 VOLT 3ø 4W
100 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL C1

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	REC-COMM	1	20	.36			.96			20	2	FAC-B/HPCU-2	2
3	REC-COMM	1	20		.36			.96		↓	↓	↓	4
5	REC-COMM	1	20			.36			.18	20	1	ACD	6
7	REC-COMM	1	20	.36			.36			20	1	REC-COMM RACK	8
9	REC-COMM	1	20		.36			.36		20	1	REC-COMM RACK	10
11	30A REC-RACK	2	30			2.4				20	1	SPARE	12
13	↓	↓	↓	2.4						20	1	SPARE	14
15	30A REC-RACK	2	30		2.4					--	1	SPACE ONLY	16
17	↓	↓	↓			2.4				--	1	SPACE ONLY	18
19	SPARE	1	20							--	1	SPACE ONLY	20
21	SPARE	1	20							--	1	SPACE ONLY	22
23	SPARE	1	20							--	1	SPACE ONLY	24
25	↓	↓	↓							--	1	SPACE ONLY	26
27	SURGE SUPPRESSOR	3	30							--	1	SPACE ONLY	28
29	↓	↓	↓							--	1	SPACE ONLY	30

TOTAL CONNECTED KVA: 4.44 (A) | 4.44 (B) | 5.34 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
100 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL CA

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	REC-COMM	1	20	.36			.96			20	2	FAC-A/HPCU-1	2
3	REC-COMM	1	20		.36			.96		↓	↓	↓	4
5	REC-COMM	1	20			.36			.36	20	1	REC-COMM	6
7	ACP	1	20	.60			.18			20	1	ACD	8
9	30A REC-RACK	2	30		2.4			.36		20	1	REC-COMM RACK	10
11	↓	↓	↓			2.4			.36	20	1	REC-COMM RACK	12
13	30A REC-RACK	2	30	2.4						20	1	SPARE	14
15	↓	↓	↓		2.4					20	1	SPACE ONLY	16
17	SPARE	1	20							--	1	SPACE ONLY	18
19	SPARE	1	20							--	1	SPACE ONLY	20
21	SPARE	1	20							--	1	SPACE ONLY	22
23	SPARE	1	20							--	1	SPACE ONLY	24
25	↓	↓	↓							--	1	SPACE ONLY	26
27	SURGE SUPPRESSOR	3	30							--	1	SPACE ONLY	28
29	↓	↓	↓							--	1	SPACE ONLY	30

TOTAL CONNECTED KVA: 4.32 (A) | 6.30 (B) | 3.12 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
100 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL C2

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	REC-COMM	1	20	.36			.96			20	2	FAC-C/HPCU-3	2
3	REC-COMM	1	20		.36			.96		↓	↓	↓	4
5	REC-COMM	1	20			.36			.36	20	1	REC-COMM RACK	6
7	REC-COMM	1	20	.36			.36			20	1	REC-COMM RACK	8
9	ACD	1	20		.18					20	1	SPARE	10
11	30A REC-RACK	2	30			2.4				20	1	SPARE	12
13	↓	↓	↓	2.4						20	1	SPARE	14
15	30A REC-RACK	2	30		2.4					--	1	SPACE ONLY	16
17	↓	↓	↓			2.4				--	1	SPACE ONLY	18
19	SPARE	1	20							--	1	SPACE ONLY	20
21	SPARE	1	20							--	1	SPACE ONLY	22
23	SPARE	1	20							--	1	SPACE ONLY	24
25	↓	↓	↓							--	1	SPACE ONLY	26
27	SURGE SUPPRESSOR	3	30							--	1	SPACE ONLY	28
29	↓	↓	↓							--	1	SPACE ONLY	30

TOTAL CONNECTED KVA: 4.08 (A) | 3.72 (B) | 5.34 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

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OKALOOSA COUNTY • SCHOOL DISTRICT •

Seal:

DAVID M BAGWELL
LICENSED
No. 59251
10/10/24
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
PANEL SCHEDULES

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-608

277/480 VOLT 3ø 4W
225 AMP MAIN LUGS ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL M1AH

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1				8.9			1.33						2
3	HP-MP	3	60		8.9			1.33		15	3	HP-1-8	4
5						8.9			1.33				6
7				1.77			1.77						8
9	HP-2-10	3	15		1.77			1.77		15	3	HP-2-8	10
11						1.77			1.77				12
13				2.0			1.33						14
15	HP-A-1	3	15		2.0			1.33		15	3	HP-1-9	16
17						2.0			1.33				18
19				2.0			1.77						20
21	HP-A-2	3	15		2.0			1.77		15	3	HP-2-9	22
23						2.0			1.77				24
25				1.77			1.77						26
27	HP-A-3	3	15		1.77			1.77		15	3	HP-2-12	28
29						1.77			1.77				30
31	SPARE	1	20	--			1.33						32
33	SPACE ONLY	1	--		--			1.33		15	3	HP-1-11	34
35	SPACE ONLY	1	--			--			1.33				36
37	SPACE ONLY	1	--	--			1.33						38
39	SPACE ONLY	1	--		--			1.33		15	3	HP-1-10	40
41	SPACE ONLY	1	--			--			1.33				42
43	SPACE ONLY	1	--	--			1.77						44
45	SPACE ONLY	1	--		--			1.77		15	3	HP-2-11	46
47	SPACE ONLY	1	--			--			1.77				48
49	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	50
51	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	52
53	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	54

TOTAL CONNECTED KVA: 28.9 (A) | 28.9 (B) | 28.9 (C)

MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

277/480 VOLT 3ø 4W
225 AMP MAIN LUGS ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL M1DH

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1				1.77			1.33						2
3	HP-2-18	3	15		1.77			1.33		15	3	HP-1-1	4
5						1.77			1.33				6
7				1.33			1.77						8
9	HP-1-17	3	15		1.33			1.77		15	3	HP-2-1	10
11						1.33			1.77				12
13				1.77			1.33						14
15	HP-2-17	3	15		1.77			1.33		15	3	HP-1-2	16
17						1.77			1.33				18
19				1.33			1.77						20
21	HP-1-16	3	15		1.33			1.77		15	3	HP-2-2	22
23						1.33			1.77				24
25				1.33			1.33						26
27	HP-1-15	3	15		1.33			1.33		15	3	HP-1-3	28
29						1.33			1.33				30
31				1.77			1.77						32
33	HP-2-16	3	15		1.77			1.77		15	3	HP-2-3	34
35						1.77			1.77				36
37	SPARE	1	20	--			--			--	1	SPACE ONLY	38
39	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42
43	SPACE ONLY	1	--	--						--	1	SPACE ONLY	44
45	SPACE ONLY	1	--		--					--	1	SPACE ONLY	46
47	SPACE ONLY	1	--			--				--	1	SPACE ONLY	48
49	SPACE ONLY	1	--	--						--	1	SPACE ONLY	50
51	SPACE ONLY	1	--		--					--	1	SPACE ONLY	52
53	SPACE ONLY	1	--			--				--	1	SPACE ONLY	54

TOTAL CONNECTED KVA: 18.6 (A) | 18.6 (B) | 18.6 (C)

MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

277/480 VOLT 3ø 4W
150 AMP MAIN LUGS ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL M1FH

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1				1.77			1.77						2
3	HP-2-4	3	15		1.77			1.77		15	3	HP-2-15	4
5						1.77			1.77				6
7				1.33			1.33						8
9	HP-1-4	3	15		1.33			1.33		15	3	HP-1-14	10
11						1.33			1.33				12
13				1.33			1.33						14
15	HP-1-5	3	15		1.33			1.33		15	3	HP-1-13	16
17						1.33			1.33				18
19				1.77			1.77						20
21	HP-2-5	3	15		1.77			1.77		15	3	HP-2-14	22
23						1.77			1.77				24
25				1.33			1.77						26
27	HP-1-6	3	15		1.33			1.77		15	3	HP-2-13	28
29						1.33			1.77				30
31				1.77			1.33						32
33	HP-2-6	3	15		1.77			1.33		15	3	HP-1-12	34
35						1.77			1.33				36
37				1.33			--			20	1	SPARE	38
39	HP-1-7	3	15		1.33			--		--	1	SPACE ONLY	40
41						1.33			--	--	1	SPACE ONLY	42
43				1.77			--			--	1	SPACE ONLY	44
45	HP-2-7	3	15		1.77			--		--	1	SPACE ONLY	46
47						1.77			--	--	1	SPACE ONLY	48
49	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	50
51	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	52
53	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	54

TOTAL CONNECTED KVA: 21.7 (A) | 21.7 (B) | 21.7 (C)

MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
60 AMP MAIN LUGS ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL MV

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	LTS-ELEVATOR PIT	20	1	.2			.96			20	2	FAC-D/HPCU-4	2
3	REC-ELEVATOR PIT	20	1		.18			.96					4
5	REC-ELEVATOR SUMP PUMP	20	1			1.2			--	20	1	SPARE	6
7	PWR-ELEVATOR	20	1	.50			--			20	1	SPARE	8
9	SPARE	20	1		--			--		20	1	SPARE	10
11	SPARE	20	1			--			--	--	1	SPACE ONLY	12
13	SPARE	20	1	--			--			--	1	SPACE ONLY	14
15	SPACE ONLY	--	1		--			--		--	1	SPACE ONLY	16
17	SPACE ONLY	--	1			--			--	--	1	SPACE ONLY	18
19	SPACE ONLY	--	1	--			--			--	1	SPACE ONLY	20
21	SPACE ONLY	--	1		--			--		--	1	SPACE ONLY	22
23	SPACE ONLY	--	1			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	--	1	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	--	1		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	--	1			--			--	--	1	SPACE ONLY	30

TOTAL CONNECTED KVA: 1.16 (A) | 1.14 (B) | 1.20 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

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Donald J McCarthy

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FL PE No: 59251
Job Number: 24-007

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M. BAGWELL LICENSE No. 59251 10/10/24 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
PANEL SCHEDULES

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-609

120/208 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL M1AL

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	SPACE ONLY	1	--	--			3.0			↑	↑	↑	2
3	AHU-1-8	2	25		2.4			3.0		35	3	EWH-1	4
5	↓	↑	↑			2.4			3.0	↓	↓	↓	6
7	AHU-1-9	2	25	2.4			.1			20	1	CP-1	8
9	↓	↑	↑		2.4			.24		20	1	EXHAUST FANS	10
11	AHU-1-10	2	25			2.4			.24	20	1	EXHAUST FANS	12
13	↓	↑	↑	2.4			--			20	1	SPARE	14
15	AHU-1-11	2	25		2.4			--		20	1	SPARE	16
17	↓	↑	↑			2.4			--	20	1	SPARE	18
19	SPARE	1	20	--			--			--	1	SPACE ONLY	20
21	SPARE	1	20		--			--		--	1	SPACE ONLY	22
23	SPARE	1	20			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	38
39	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 7.90 (A) | 10.20 (B) | 10.20 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL M1BL

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	AHU-1-4	2	25	2.4			.24			20	1	EXHAUST FAN	2
3	↓	↑	↑		2.4			--		20	1	SPARE	4
5	AHU-1-5	2	25			2.4			--	20	1	SPARE	6
7	↓	↑	↑	2.4			--			20	1	SPARE	8
9	AHU-1-13	2	25		2.4			--		--	1	SPACE ONLY	10
11	↓	↑	↑			2.4			--	--	1	SPACE ONLY	12
13	AHU-1-14	2	25	2.4			--			--	1	SPACE ONLY	14
15	↓	↑	↑		2.4			--		--	1	SPACE ONLY	16
17	SPARE	1	20			--			--	--	1	SPACE ONLY	18
19	SPARE	1	20	--			--			--	1	SPACE ONLY	20
21	SPARE	1	20		--			--		--	1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	38
39	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 7.2 (A) | 7.2 (B) | 4.8 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL M1CL

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	AHU-1-2	2	25	2.4			.24			20	1	EXHAUST FAN	2
3	↓	↑	↑		2.4			--		20	1	SPARE	4
5	AHU-1-3	2	25			2.4			--	20	1	SPARE	6
7	↓	↑	↑	2.4			--			20	1	SPARE	8
9	AHU-1-15	2	25		2.4			--		--	1	SPACE ONLY	10
11	↓	↑	↑			2.4			--	--	1	SPACE ONLY	12
13	AHU-1-16	2	25	2.4			--			--	1	SPACE ONLY	14
15	↓	↑	↑		2.4			--		--	1	SPACE ONLY	16
17	SPARE	1	20			--			--	--	1	SPACE ONLY	18
19	SPARE	1	20	--			--			--	1	SPACE ONLY	20
21	SPARE	1	20		--			--		--	1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	38
39	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 7.2 (A) | 7.2 (B) | 4.8 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL M1DL

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	SPACE ONLY	1	--	--			.24			20	1	EXHAUST FAN	2
3	SPACE ONLY	1	--		--			--		20	1	SPARE	4
5	AHU-1-1	2	25			2.4			--	20	1	SPARE	6
7	↓	↑	↑	2.4			--			20	1	SPARE	8
9	AHU-1-17	2	25		2.4			--		--	1	SPACE ONLY	10
11	↓	↑	↑			2.4			--	--	1	SPACE ONLY	12
13	DDC CONTROL PANEL	1	20	.60			--			--	1	SPACE ONLY	14
15	SPARE	1	20		--			--		--	1	SPACE ONLY	16
17	SPARE	1	20			--			--	--	1	SPACE ONLY	18
19	SPARE	1	20	--			--			--	1	SPACE ONLY	20
21	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	38
39	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 3.0 (A) | 2.4 (B) | 4.8 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL M1FL

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	AHU-1-6	2	25	2.4			.24			20	1	EXHAUST FAN	2
3	↓	↑	↑		2.4			--		20	1	SPARE	4
5	AHU-1-7	2	25			2.4			--	20	1	SPARE	6
7	↓	↑	↑	2.4			--			20	1	SPARE	8
9	AHU-1-12	2	25		2.4			--		--	1	SPACE ONLY	10
11	↓	↑	↑			2.4			--	--	1	SPACE ONLY	12
13	DDC CONTROL PANEL	1	20	.60			--			--	1	SPACE ONLY	14
15	SPARE	1	20		--			--		--	1	SPACE ONLY	16
17	SPARE	1	20			--			--	--	1	SPACE ONLY	18
19	SPARE	1	20	--			--			--	1	SPACE ONLY	20
21	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	38
39	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 5.4 (A) | 4.8 (B) | 4.8 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
150 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL MAL

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	AHU-A-1	2	45	4.0			.6			20	1	DDC CONTROL PANEL	2
3	↓	↑	↑		4.0			--		20	1	SPARE	4
5	AHU-A-2	2	60			4.9			--	20	1	SPARE	6
7	↓	↑	↑	4.9			--			20	1	SPARE	8
9	AHU-A-3	2	45		4.0			--		--	1	SPACE ONLY	10
11	↓	↑	↑			4.0			--	--	1	SPACE ONLY	12
13	↓	↑	↑	3.0			--			--	1	SPACE ONLY	14
15	EWH-3	3	35		3.0			--		--	1	SPACE ONLY	16
17	↓	↑	↑			3.0			--	--	1	SPACE ONLY	18
19	CP-3	1	20	.1			--			--	1	SPACE ONLY	20
21	SPARE	1	20		--			--		--	1	SPACE ONLY	22
23	SPARE	1	20			--			--	--	1	SPACE ONLY	24
25	SPARE	1	20	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	38
39	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 12.60 (A) | 11.00 (B) | 11.90 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

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Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY • DISTRICT • SCHOOL •

Seal:

DAVID M. BAGWELL
LICENSED
No. 59251
10/10/24
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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Donald J McCarthy

Project No.: 83X98735

Drawing Title:
PANEL SCHEDULES

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-610

120/208 VOLT 3ø 4W
225 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL M2AL

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	AHU-2-8	2	30	2.8			3.0						2
3	↓	↓	↓		2.8			3.0		35	3	EWH-2	4
5	AHU-2-9	2	30			2.8			3.0	↓	↓	↓	6
7	↓	↓	↓	2.8			.1			20	1	CP-2	8
9	AHU-2-10	2	30		2.8			.24		20	1	EXHAUST FAN	10
11	↓	↓	↓			2.8			.60	20	1	DDC CONTROL PANEL	12
13	AHU-2-11	2	30	2.8			--			20	1	SPARE	14
15	↓	↓	↓		2.8			--		20	1	SPARE	16
17	AHU-2-12	2	30			2.8			--	20	1	SPARE	18
19	↓	↓	↓	2.8			--			--	1	SPACE ONLY	20
21	SPARE	1	20		--			--		--	1	SPACE ONLY	22
23	SPARE	1	20			--			--	--	1	SPACE ONLY	24
25	SPARE	1	20	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	38
39	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 14.30 (A) | 11.40 (B) | 12.00 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL M2BL

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	AHU-2-4	2	30	2.8			.24			20	1	EXHAUST FAN	2
3	↓	↓	↓		2.8			--		20	1	SPARE	4
5	AHU-2-5	2	30			2.8			--	20	1	SPARE	6
7	↓	↓	↓	2.8			--			20	1	SPARE	8
9	AHU-2-14	2	30		2.8			--		--	1	SPACE ONLY	10
11	↓	↓	↓			2.8			--	--	1	SPACE ONLY	12
13	AHU-2-15	2	30	2.8			--			--	1	SPACE ONLY	14
15	↓	↓	↓		2.8			--		--	1	SPACE ONLY	16
17	SPARE	1	20			--			--	--	1	SPACE ONLY	18
19	SPARE	1	20	--			--			--	1	SPACE ONLY	20
21	SPARE	1	20		--			--		--	1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	38
39	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 8.40 (A) | 8.40 (B) | 5.60 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL M2CL

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	SPACE ONLY	1	--	--			.24			20	1	EXHAUST FAN	2
3	AHU-2-2	2	30		2.8			--		20	1	SPARE	4
5	↓	↓	↓			2.8			--	20	1	SPARE	6
7	AHU-2-3	2	30	2.8			--			20	1	SPARE	8
9	↓	↓	↓		2.8			--		--	1	SPACE ONLY	10
11	AHU-2-16	2	30			2.8			--	--	1	SPACE ONLY	12
13	↓	↓	↓	2.8			--			--	1	SPACE ONLY	14
15	AHU-2-17	2	30		2.8			--		--	1	SPACE ONLY	16
17	↓	↓	↓			2.8			--	--	1	SPACE ONLY	18
19	SPARE	1	20	--			--			--	1	SPACE ONLY	20
21	SPARE	1	20		--			--		--	1	SPACE ONLY	22
23	SPARE	1	20			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	38
39	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 5.60 (A) | 8.40 (B) | 8.40 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL M2DL

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	DDC CONTROL PANEL	1	20	.60			.24			20	1	EXHAUST FAN	2
3	AUTO DAMPER	1	20		.36			--		20	1	SPARE	4
5	SPARE	1	20			--			--	20	1	SPARE	6
7	SPARE	1	20	--			--			20	1	SPARE	8
9	SPARE	1	20		--			--		--	1	SPACE ONLY	10
11	AHU-2-18	2	30			2.8			--	--	1	SPACE ONLY	12
13	↓	↓	↓	2.8			--			--	1	SPACE ONLY	14
15	SPARE	1	20		--			--		--	1	SPACE ONLY	16
17	SPARE	1	20			--			--	--	1	SPACE ONLY	18
19	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	20
21	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	38
39					--			--		--	1	SPACE ONLY	40
41						--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 3.64 (A) | 0.36 (B) | 2.80 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL M2FL

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	AHU-2-6	2	60	4.9			.24			20	1	EXHAUST FAN	2
3	↓	↓	↓		4.9			--		20	1	SPARE	4
5	AHU-2-7	2	30			4.9			--	20	1	SPARE	6
7	↓	↓	↓	2.8			--			20	1	SPARE	8
9	AHU-2-13	2	30		2.8			--		--	1	SPACE ONLY	10
11	↓	↓	↓			2.8			--	--	1	SPACE ONLY	12
13	SPARE	1	20	--			--			--	1	SPACE ONLY	14
15	SPARE	1	20		--			--		--	1	SPACE ONLY	16
17	SPARE	1	20			--			--	--	1	SPACE ONLY	18
19	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	20
21	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	38
39	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 7.70 (A) | 7.70 (B) | 7.70 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

277/480 VOLT 3ø 4W
125 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL M2DH

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	↓	↓	↓	3.42						20	1	SPARE	2
3	ERV-1	3	25		3.42					20	1	SPARE	4
5	↓	↓	↓			3.42				20	1	SPARE	6
7	SPARE	1	20	--			--			--	1	SPACE ONLY	8
9	SPARE	1	20		--			--		--	1	SPACE ONLY	10
11	SPARE	1	20			--			--	--	1	SPACE ONLY	12
13	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	14
15	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	16
17	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	18
19	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	20
21	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30
31	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	32
33	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	34
35	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	36
37	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	38
39	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42

TOTAL CONNECTED KVA: 3.42 (A) | 3.42 (B) | 3.42 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

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FL Authorization No: 30167
FL PE No: 59251
Job Number: 24-007

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M. BAGWELL LICENSED PE No. 59251 10/10/24 STATE OF FLORIDA PROFESSIONAL ENGINEER

This item has been electronically signed and sealed by David M Bagwell, PE on 10/10/24 using a Digital Signature.

Printed Copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Donald J McCarthy

Project No.: 83X98735

Drawing Title:
PANEL SCHEDULES

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-611

120/208 VOLT 3ø 4W
60 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL LA

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	LTS-1ST FLOOR AREA 'D'	1	20	.56			.03			20	1	LTS-1ST FLOOR AREA 'D'	2
3	LTS-1ST FLOOR AREA 'D'	1	20		.50			--		20	1	SPARE	4
5	LTS-1ST FLOOR AREA 'D'	1	20			.34			--	20	1	SPARE	6
7	LTS-1ST FLOOR AREA 'D'	1	20	.36			.42			20	1	LTS-1ST FLOOR AREA 'D'	8
9	LTS-1ST FLOOR AREA 'D'	1	20		.34			.43		20	1	LTS-1ST FLOOR AREA 'D'	10
11	LTS-1ST FLOOR AREA 'D'	1	20			.15			--	20	1	SPARE	12
13	SPARE	1	20	--			--			20	1	SPARE	14
15	SPARE	1	20		--			--		20	1	SPARE	16
17	SPARE	1	20			--			--	--	1	SPACE ONLY	18
19	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	20
21	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30

TOTAL CONNECTED KVA: 1.37 (A) | 1.27 (B) | 0.49 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
60 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL LM

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	LTS-ELEC/MECH/STOR	1	20	.58			.68			20	1	LTS-1ST FLOOR AREA 'D' EXT	2
3	LTS-MULTIPURPOSE ROOM	1	20		1.12			.25		20	1	LTS-1ST FLOOR AREA 'C' EXT	4
5	LTS-MULTIPURPOSE ROOM	1	20			1.12			.18	20	1	LIGHTING CONTACTOR	6
7	LTS-MULTIPURPOSE ROOM	1	20	1.12			.18			20	1	LIGHTING CONTACTOR	8
9	LTS-MULTIPURPOSE ROOM	1	20		1.12			--		20	1	SPARE	10
11	LTS-MULTIPURPOSE ROOM	1	20			1.12			--	20	1	SPARE	12
13	SPARE	1	20	--			--			--	1	SPACE ONLY	14
15	SPARE	1	20		--			--		--	1	SPACE ONLY	16
17	SPARE	1	20			--			--	--	1	SPACE ONLY	18
19	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	20
21	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	3	SURGE SUPPRESSOR	28
29	SPACE ONLY	1	--			--			--	--			30

TOTAL CONNECTED KVA: 2.56 (A) | 2.50 (B) | 2.42 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
60 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL L1A

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	LTS-1ST FLOOR AREA 'B'	1	20	.36			.36			20	1	LTS-1ST FLOOR AREA 'B'	2
3	LTS-1ST FLOOR AREA 'B'	1	20		.48			.48		20	1	LTS-1ST FLOOR AREA 'B'	4
5	LTS-1ST FLOOR AREA 'C'	1	20			.39			.73	20	1	LTS-1ST FLOOR AREA 'B'	6
7	LTS-1ST FLOOR AREA 'B'	1	20	.2			--			20	1	SPARE	8
9	SPARE	1	20		--			--		20	1	SPARE	10
11	SPARE	1	20			--			--	20	1	SPARE	12
13	SPARE	1	20	--			--			--	1	SPACE ONLY	14
15	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	16
17	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	18
19	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	20
21	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30

TOTAL CONNECTED KVA: 0.92 (A) | 0.96 (B) | 1.12 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
60 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL L1B

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	LTS-1ST FLOOR AREA 'A'	1	20	.48			.48			20	1	LTS-1ST FLOOR AREA 'A'	2
3	LTS-1ST FLOOR AREA 'A'	1	20		.48			.48		20	1	LTS-1ST FLOOR AREA 'A'	4
5	LTS-1ST FLOOR AREA 'A'	1	20			.36			.36	20	1	LTS-1ST FLOOR AREA 'A'	6
7	LTS-1ST FLOOR AREA 'A'	1	20	.48			.48			20	1	LTS-1ST FLOOR AREA 'A'	8
9	LTS-1ST FLOOR AREA 'A'	1	20		.65			--		20	1	SPARE	10
11	SPARE	1	20			--			--	20	1	SPARE	12
13	SPARE	1	20	--			--			20	1	SPARE	14
15	SPARE	1	20		--			--		20	1	SPARE	16
17	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	18
19	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	20
21	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30

TOTAL CONNECTED KVA: 1.89 (A) | 1.43 (B) | 0.93 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
60 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL L1C

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	LTS-1ST FLOOR AREA 'A'	1	20	.22			.31			20	1	LTS-1ST FLOOR AREA 'A'	2
3	LTS-1ST FLOOR AREA 'A'	1	20		.78			.48		20	1	LTS-1ST FLOOR AREA 'A'	4
5	LTS-1ST FLOOR AREA 'A'	1	20			.48			.36	20	1	LTS-1ST FLOOR AREA 'A'	6
7	LTS-1ST FLOOR AREA 'A'	1	20	.36			.31			20	1	LTS-1ST FLOOR AREA 'A'	8
9	LTS-1ST FLOOR AREA 'A'	1	20		.62			--		20	1	SPARE	10
11	SPARE	1	20			--			--	20	1	SPARE	12
13	SPARE	1	20	--			--			20	1	SPARE	14
15	SPARE	1	20		--			--		--	1	SPACE ONLY	16
17	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	18
19	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	20
21	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30

TOTAL CONNECTED KVA: 1.20 (A) | 1.88 (B) | 0.84 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
60 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL L1D

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	LTS-1ST FLOOR AREA 'B'	1	20	.39			.33			20	1	LTS-COMM	2
3	LTS-1ST FLOOR AREA 'B'	1	20		.48			.71		20	1	LTS-1ST FLOOR AREA 'B'	4
5	LTS-1ST FLOOR AREA 'B'	1	20			.70			.48	20	1	LTS-1ST FLOOR AREA 'B'	6
7	LTS-1ST FLOOR AREA 'B'	1	20	.56			.55			20	1	LTS-GATHERING AREA	8
9	LTS-1ST FLOOR AREA 'B' EXT	1	20		.51			.37		20	1	LTS-1ST FLOOR AREA 'A' EXT	10
11	LTS-1ST FLOOR AREA 'B' EXT	1	20			.36			.41	20	1	LTS-1ST FLOOR AREA 'A' EXT	12
13	LTS-BUS RAMP WALKWAY	1	20	.30			.31			20	1	LTS-WALKWAY CANOPY	14
15	SPARE	1	20		--			--		20	1	SPARE	16
17	SPARE	1	20			--			--	20	1	SPARE	18
19	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	20
21	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30

TOTAL CONNECTED KVA: 2.44 (A) | 2.07 (B) | 1.95 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

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FL Authorization No: 30167
FL PE No: 59251
Job Number: 24-007

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M BAGWELL
LICENSE
No. 59251
10/10/24
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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Donald J McCarthy

Project No.: 83X98735

Drawing Title:
PANEL SCHEDULES

Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-612

120/208 VOLT 3ø 4W
60 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL L2A

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	LTS-2ND FLOOR AREA 'B'	1	20	.33			.33			20	1	LTS-2ND FLOOR AREA 'B'	2
3	LTS-2ND FLOOR AREA 'B'	1	20		.48			.89		20	1	LTS-2ND FLOOR AREA 'B'	4
5	LTS-2ND FLOOR AREA 'B'	1	20			.64			--	20	1	SPARE	6
7	LTS-2ND FLOOR AREA 'B'	1	20	.31			--			20	1	SPARE	8
9	SPARE	1	20		--			--		20	1	SPARE	10
11	SPARE	1	20			--			--	--	1	SPACE ONLY	12
13	SPARE	1	20	--			--			--	1	SPACE ONLY	14
15	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	16
17	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	18
19	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	20
21	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30

TOTAL CONNECTED KVA: 0.97 (A) | 1.37 (B) | 0.64 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
60 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL L2B

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	LTS-2ND FLOOR AREA 'A'	1	20	.48			.48			20	1	LTS-2ND FLOOR AREA 'A'	2
3	LTS-2ND FLOOR AREA 'A'	1	20		.48			.48		20	1	LTS-2ND FLOOR AREA 'A'	4
5	LTS-2ND FLOOR AREA 'A'	1	20			.48			.48	20	1	LTS-2ND FLOOR AREA 'A'	6
7	LTS-2ND FLOOR AREA 'A'	1	20	.33			--			20	1	SPARE	8
9	LTS-2ND FLOOR AREA 'A'	1	20		.33			--		20	1	SPARE	10
11	LTS-2ND FLOOR AREA 'A'	1	20			.65			--	20	1	SPARE	12
13	SPARE	1	20	--			--			--	1	SPACE ONLY	14
15	SPARE	1	20		--			--		--	1	SPACE ONLY	16
17	SPARE	1	20			--			--	--	1	SPACE ONLY	18
19	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	20
21	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30

TOTAL CONNECTED KVA: 1.29 (A) | 1.29 (B) | 1.61 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
60 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL L2C

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	LTS-2ND FLOOR AREA 'A'	1	20	.22			.44			20	1	LTS-2ND FLOOR AREA 'A'	2
3	LTS-2ND FLOOR AREA 'A'	1	20		.48			.48		20	1	LTS-2ND FLOOR AREA 'A'	4
5	LTS-2ND FLOOR AREA 'A'	1	20			.78			.33	20	1	LTS-2ND FLOOR AREA 'A'	6
7	LTS-2ND FLOOR AREA 'A'	1	20	.33			.08			20	1	LTS-2ND FLOOR AREA 'A'	8
9	LTS-2ND FLOOR AREA 'A'	1	20		.44			--		20	1	SPARE	10
11	LTS-2ND FLOOR AREA 'A'	1	20			.45			--	20	1	SPARE	12
13	SPARE	1	20	--			--			20	1	SPARE	14
15	SPARE	1	20		--			--		--	1	SPACE ONLY	16
17	SPARE	1	20			--			--	--	1	SPACE ONLY	18
19	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	20
21	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30

TOTAL CONNECTED KVA: 1.07 (A) | 1.40 (B) | 1.56 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
60 AMP MAIN LUG ONLY

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL L2D

SURFACE MOUNTED
NEMA 1 ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	LTS-2ND FLOOR AREA 'B'	1	20	.99			.66			20	1	LTS-2ND FLOOR AREA 'B'	2
3	LTS-2ND FLOOR AREA 'B'	1	20		.42			.70		20	1	LTS-2ND FLOOR AREA 'B'	4
5	LTS-2ND FLOOR AREA 'B'	1	20			.70			.48	20	1	LTS-2ND FLOOR AREA 'B'	6
7	LTS-2ND FLOOR AREA 'B'	1	20	.48			--			20	1	SPARE	8
9	LTS-2ND FLOOR AREA 'B'	1	20		.51			--		20	1	SPARE	10
11	SPARE	1	20			--			--	20	1	SPARE	12
13	SPARE	1	20	--			--			--	1	SPACE ONLY	14
15	SPARE	1	20		--			--		--	1	SPACE ONLY	16
17	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	18
19	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	20
21	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	22
23	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	24
25	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	26
27	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30

TOTAL CONNECTED KVA: 2.13 (A) | 1.63 (B) | 1.18 (C)

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

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Date: 10 OCTOBER 2024

Designed By: CTK
Drawn By: CTK
Checked By: DMB

Drawing No.: E-613

TELECOMMUNICATIONS LEGEND

GENERAL TELECOMMUNICATIONS:

TYPICAL WALL MOUNTED DATA OUTLET WITH NYLON FACEPLATE MOUNTED @ 18" AFF, FROM THE CENTER OF THE OUTLET, UNO. REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS.

SUBSCRIPTS INDICATES THE FOLLOWING:

- W - WALL MOUNTED AT 48" AFF FROM THE TOP OF THE OUTLET.
- AC - WALL MOUNTED DATA OUTLET MOUNTED AT 7" ABOVE COUNTER TOP. FINAL LOCATION SHALL BECOORDINATED WITH COUNTERS PRIOR TO ROUGH-IN.
- DP - 1" CONDUIT HOMERUN FROM SERVING TR. PROVIDE (1) HORIZONTAL CABLE FROM THE SERVING TELECOMMUNICATION EQUIPMENT WITH 48" OF SLACK NEATLY COILED AND TERMINATED INTO A 2 PORT BISCUIT JACK WITHIN MAIN DISTRIBUTION PANEL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN. FINAL CONNECTION TO EQUIPMENT DONE BY ELECTRICAL CONTRACTOR.
- LCP - 1" CONDUIT HOMERUN FROM SERVING TR. PROVIDE (1) HORIZONTAL CABLE FROM THE SERVING TELECOMMUNICATION EQUIPMENT WITH 48" OF SLACK NEATLY COILED AND TERMINATED INTO A 2 PORT BISCUIT JACK WITHIN THE LIGHTING CONTROL PANEL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN. FINAL CONNECTION TO EQUIPMENT DONE BY ELECTRICAL CONTRACTOR.
- FACP - 1" CONDUIT HOMERUN FROM SERVING TR. PROVIDE (1) HORIZONTAL CABLE FROM SERVING TELECOMMUNICATION EQUIPMENT WITH 48" OF SLACK NEATLY COILED AND TERMINATED INTO A 2 PORT BISCUIT JACK WITHIN FIRE ALARM CONTROL PANEL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN. FINAL CONNECTION TO EQUIPMENT DONE BY ELECTRICAL CONTRACTOR.
- DDC - 1" CONDUIT HOMERUN FROM SERVING TR. PROVIDE (1) HORIZONTAL CABLE FROM SERVING TELECOMMUNICATION EQUIPMENT WITH 48" OF SLACK NEATLY COILED AND TERMINATED INTO A 2 PORT BISCUIT JACK WITHIN THE DIRECT DIGITAL CONTROL PANEL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. FINAL CONNECTION TO EQUIPMENT DONE BY MECHANICAL CONTRACTOR.
- ACP - 1" CONDUIT HOMERUN FROM SERVING TR. PROVIDE (1) HORIZONTAL CABLE FROM SERVING TELECOMMUNICATION EQUIPMENT WITH 48" OF SLACK NEATLY COILED AND TERMINATED INTO A 2 PORT BISCUIT JACK WITHIN ACCESS CONTROL PANEL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ACCESS CONTROL VENDOR PRIOR TO ROUGH- IN. FINAL CONNECTION TO EQUIPMENT DONE BY ACCESS CONTROL VENDOR.
- ELEV - 1" CONDUIT HOMERUN FROM SERVING TR. PROVIDE (1) HORIZONTAL CABLE FROM SERVING TELECOMMUNICATION EQUIPMENT WITH 48" OF SLACK NEATLY COILED AND TERMINATED INTO A 2 PORT BISCUIT JACK WITHIN THE ELEVATOR CONTROL PANEL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH- IN. FINAL CONNECTION TO EQUIPMENT DONE BY ELEVATOR CONTRACTOR.

TAG INDICATES THE FOLLOWING (THIS LIST INDICATES EACH NETWORK DESIGNATION FOR CLARITY. TAGS ON DRAWINGS WILL HAVE THE NETWORKS COMBINED INTO ONE TAG:

- D# - "D" INDICATES THE NETWORK DESIGNATION FOR "SCHOOL NETWORK" AND THE "#" INDICATES THE NUMBER OF JACKS WITHIN THE FACEPLATE. REFER TO RISER DIAGRAM FOR CABLE, CONNECTOR REQUIREMENTS AND COLOR.

ROUGH-IN. SUBSCRIPT INDICATES THE FOLLOWING:

- I1 - ROUGH-IN FOR INTERCOM MASTER STATION. PROVIDE 4-11/16" SQ x 2-1/8" DEEP BOX WITH 1" CONDUIT STUBBED UP TO ABOVE ACCESSIBLE CEILING FOR . PROVIDE GROUNDED INSULATED BUSHING AND PULL STRING.
- VP - ROUGH-IN FOR WALL MOUNTED DOOR VIDEO INTERCOM. PROVIDE A SINGLE GANG 45 DEGREE ANGLE JUNCTION BOX COMPATIBLE WITH DOOR INTERCOM BEING PROVIDED WITH 1" CONDUIT ROUTED TO NEAREST ACCESSIBLE CEILING AND STUBBED UP ON THE SECURE SIDE OF THE DOOR WITH A GROUNDED INSULATED BUSHING, PROVIDE PULL STRING. MOUNT BOX SUCH THAT THE TOP OF THE DEVICE IS NO MORE THAN 48" AFF. DOOR VIDEO INTERCOM AND CABLING PROVIDED BY OTHERS. COORDINATE EXACT LOCATION WITH OWNER AND OWNER TECHNICAL REPRESENTATIVE PRIOR TO ROUGH-IN.

WAP — CEILING MOUNTED WIRELESS ACCESS POINT MOUNTED TO THE CEILING. PROVIDE (2) HORIZONTAL CABLES TO EACH LOCATION. REFER TO DETAILS AND RISER DIAGRAMS FOR ADDITIONAL REQUIREMENTS. REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS.

PBB — GROUNDING BUSBAR. REFER TO DETAIL FOR ADDITIONAL REQUIREMENTS. TAG INDICATES THE FOLLOWING:

- PBB - PRIMARY BONDING BUSBAR.
- SBB - SECONDARY BONDING BUSBAR.

HH — HANDHOLE. PROVIDE HUBBELL QUAZITE "PG" TIER 22 POLYMER CONCRETE STACKABLE ASSEMBLY WITH TIER 22 COVER. REFER TO DETAIL FOR ADDITIONAL INFORMATION. SUBSCRIPT INDICATES THE FOLLOWING:

- ##" x ##" x ##" - HANDHOLE SIZE
- #.# - HANDHOLE NUMBER

INTERCOM SYSTEM:

S — ROUGH-IN FOR TELECOR "STB-16" WALL MOUNTED SPEAKER MOUNTED AT 10'-8" AFF. PROVIDE RECESSED BACKBOX (COORDINATE BACK BOX REQUIREMENTS WITH VENDOR PRIOR TO ORDERING) AND 1" CONDUIT TO THE NEAREST ACCESSIBLE CEILING WITH GROUNDING INSULATED BUSHING AND PULL STRING. SPEAKER AND CABLING PROVIDED BY OTHERS.

S — ROUGH-IN FOR TELECOR "STB-12" CEILING MOUNTED SPEAKER. PROVIDE (1) J-HOOK DIRECTLY ABOVE SPEAKER LOCATION AND THEN (1) EVERY 5'-0" UNTIL CORRIDOR. SPEAKER AND CABLING PROVIDED BY OTHERS.

B — ROUGH-IN FOR TELECOR "CS-1-PT" CALL BUTTON MOUNTED AT 48"AFF. PROVIDE SINGLE GANG BACK BOX WITH A 1" CONDUIT TO ABOVE ACCESSIBLE CEILING (UNO) WITH A GROUNDING INSULATED BUSHING AND PULL STRING. CALL BUTTON AND CABLING PROVIDED BY OTHERS.

LINETYPES:

---- INDICATES PATHWAYS ROUTED BELOW GRADE.

GENERAL NOTES

1. ALL PENETRATIONS THRU FIRE/SMOKE RATED WALLS, CEILINGS, FLOORS, PARTITIONS, ETC SHALL BE FIRE STOPPED TO THE LATEST CODES, STANDARDS AND THE AUTHORITY HAVING JURISDICTION. COORDINATE WITH ARCHITECTURAL.
2. FOR CABLES PENETRATING FIRE/SMOKE RATED WALLS PROVIDE CONDUIT SLEEVES IN ACCORDANCE WITH NOTE #1.
3. ALL EXTERIOR PENETRATIONS SHALL BE SEALED IN A NEAT/CLEAN MANNER AND SHALL HAVE A WATER TIGHT SEAL.
4. ALL CONDUITS AND INNERDUCT CELL SHALL BE PROVIDED WITH PULL STRING REGARDLESS IF CABLE IS INSTALLED OR NOT.
5. FINAL LOCATION OF **ALL DEVICES** SHALL BE COORDINATED WITH OWNER/USER PRIOR TO ROUGH-IN.
6. ALL CONDUIT ENDS SHALL BE FREE OF BURRS, SHARP EDGES AND PROVIDED WITH INSULATED GROUNDING BUSHINGS AND GROUNDED BACK TO THE TELECOMMUNICATINS GROUNDING BUSBAR SERVING THE SPACE.
7. PROVIDE CONDUIT SLEEVES FOR WALLS THAT GO ALL THE WAY UP TO DECK THAT ARE NOT IDENTIFIED WITHIN THE DETAILS. PROVIDE (2) 4" CONDUIT SLEEVES AT THESE LOCATIONS. CONDUIT SLEEVES SHALL BE SUPPORTED WITH A HANGER SYSTEM ON EACH SIDE OF THE PENETRATION.
8. CONTRACTOR SHALL REFER TO THE AUDIO VISUAL DRAWINGS FOR ADDITIONAL REQUIREMENTS TO THE CONTRACTOR SCOPE.
9. ALL CONDUITS AND/OR BACK BOXES THAT ARE EXPOSED TO THE EXTERIOR OF THE BUILDING SHALL BE CAPPED/COVERED TO PREVENT ANY INTRUSION OF PEST AND WATER UNTIL THE FINAL EQUIPMENT OR VENDOR IS READY FOR INSTALL.
10. ALL NON-CONTINUOUS PATHWAYS (J-HOOKS) SHALL REMAIN ACCESSIBLE AFTER ALL DISCIPLINES ARE FINISHED. COORDINATE PLACEMENT CLOSELY WITH OTHER DISCIPLINES DURING INSTALLATION.
11. ANY DEVICE THAT IS NOT LOCATED WITHIN AN ACCESSIBLE CEILING SHALL HAVE A CONTINOUS PATHWAY (CONDUIT) ROUTED TO THE NEAREST ACCESSIBLE CEILING AND STUBBED OUT WITH A GROUNDING INSULATED BUSHING ABOVE THE ACCESSIBLE CEILING.

GENERAL CONTRACTORS COORDINATION NOTE

1. THE CONTRACTOR SHALL FURNISH AND INSTALL THE BACKBOARDS, RACKS, VERTICAL CABLE MANAGEMENT, LADDER TRAY, GROUNDING, RACK IDENTIFIERS, AND WATERFALL KITS ALONG WITH ALL REQUIRED INFRASTRUCTURE TO ALLOW A FUTURE COMPLETE CABLING SOLUTION. THE CABLING SOLUTION ALONG WITH PATCH PANELS, OUTLETS AND HORIZONTAL MANAGEMENT SHALL BE PROVIDED BY JACOBS/TITAN AND IS NOT IN THE GENERAL CONTRACTORS SCOPE.

INTERCOM SYSTEM ROUGH-IN REQUIREMENTS

1. THE ELECTRICAL CONTRACTOR SHALL OBTAIN VENDOR SHOP DRAWINGS PRIOR TO INSTALLING CONDUIT AND BOXES FOR ALL DEVICES TO ENSURE CORRECT BOXES AND LOCATIONS ARE COORDINATED.
2. CONDUIT SHALL BE 1" EMT MINIMUM. PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.

ABBREVIATIONS

AW	ABOVE WORK-SURFACE
AFF	ABOVE FINISH FLOOR
A.O.	ACCREDITING OFFICIAL
ADA	AMERICANS WITH DISABILITIES ACT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
AA	APPROVING AUTHORITY
ARCH	ARCHITECTURAL
AHJ	AUTHORITY HAVING JURISDICTION
BBC	BONDING BACKBONE CONDUCTOR
BAS	BUILDING AUTOMATION SYSTEM
CT	CABLE TRAY
CAT 3	CATEGORY 3
CAT 5E	CATEGORY 5 ENHANCED
CAT 6	CATEGORY 6
CAT 6A	CATEGORY 6 AUGMENTED
CO	COMMUNICATIONS OUTLET
CATV	COMMUNITY ANTENNA TELEVISION
C	CONDUIT
CP	CONSOLIDATION POINT
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFGI	CONTRACTOR FURNISHED, GOVERNMENT INSTALLED
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE
DDC	DIRECT DIGITAL CONTROLS
DEMARC	DEMARCATION
ELEC	ELECTRICAL
EMI	ELECTROMAGNETIC INTERFERENCE
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
EMT	ELECTRICAL METALLIC TUBING
FCC	FEDERAL COMMUNICATIONS COMMISSION
FO	FIBER OPTIC
GFCI	GOVERNMENT FURNISHED, CONTRACTOR INSTALLED
GFGI	GOVERNMENT FURNISHED, GOVERNMENT INSTALLED
HH	HANDHOLE
IAW	IN ACCORDANCE WITH
LAN	LOCAL AREA NETWORK
MTR	MAIN TELECOMMUNICATIONS ROOM
MH	MAINTENANCE HOLE
MAX	MAXIMUM
um	MICRON / MICROMETER
MIN	MINIMUM
MUTOA	MULTI-USER TELECOMMUNICATIONS OUTLET ASSEMBLY
MM	MULTIMODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEC	NATIONAL ELECTRICAL CODE
NESC	NATIONAL ELECTRICAL SAFETY CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIPRNET	UNCLASSIFIED INTERNET PROTOCOL ROUTER NETWORK
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
OSP	OUTSIDE PLANT
PR	PAIR
PP	PATCH PANEL
PVC	POLYVINYL CHLORIDE
PB	PULL BOX
PBB	PRIMARY BONDING BUSBAR
PBX	PRIVATE BRANCH EXCHANGE
PDS	PROTECTED DISTRIBUTION SYSTEM
RMU	RACK MOUNTED UNIT
RM	ROOM
R/I	ROUGH-IN
ScTP	SCREENED TWISTED-PAIR
SIPRNet	SECRET INTERNET PROTOCOL ROUTER NETWORK
SBB	SECONDARY BONDING BUSBAR
SVTC	SECURED VIDEO TELECONFERENCE
STP	SHIELDED TWISTED-PAIR
SM	SINGLEMODE
SF	SURFACE MOUNT
STR	STRANDS
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TEBC	TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR
TBC	TELECOMMUNICATIONS BONDING CONDUCTOR
TER	TELECOMMUNICATIONS EQUIPMENT ROOM
TR	TELECOMMUNICATIONS ROOM
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
UL	UNDERWRITERS LABORATORIES INC
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED-PAIR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VTC	VIDEO TELECONFERENCE
VoIP	VOICE OVER INTERNET PROTOCOL
VoSIP	VOICE OVER SECRET INTERNET PROTOCOL

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Project No.: 83X98735

Drawing Title: LEGEND

Date: 10 October 2024

Designed By: JW
Drawn By: JW
Checked By: DB

Drawing No.: T-001

OUTSIDE PLANT GENERAL NOTES

GENERAL:
THE TELECOMMUNICATIONS SITE DRAWINGS PROVIDED ARE DIAGRAMMATIC AND SHOW THE GENERAL LOCATION OF ALL REQUIRED OSP DEVICES; SUCH AS MANHOLES / HANDHOLES, UNDERGROUND PATHWAYS, FACILITY PENETRATIONS, CABLING, EQUIPMENT, AND APPURTENANCES. THEY DO NOT SHOW ALL NECESSARY OFFSETS, FITTINGS, CONDUIT SLEEVES, DETAILED PENETRATIONS, AND ADJUSTMENTS NECESSARY BY COORDINATION WITH OTHER TRADES. THE CONTRACTOR SHALL UNDERSTAND THE FULL INTENT OF THE DRAWINGS AND SPECIFICATIONS PRIOR TO BID, AND WILL INCLUDE IN SCOPE OF WORK ALL REQUIREMENTS NECESSARY TO ENSURE A FULLY FUNCTIONAL SYSTEM.

TELECOMMUNICATIONS CONTRACTOR SCOPE OF WORK:
TELECOMMUNICATIONS CONTRACTOR SHALL BE RESPONSIBLE FOR ENTIRE OUTSIDE PLANT CABLING SYSTEM ELEMENTS DEFINED IN THE SITE PLANS, ASSOCIATED DETAILS, DIAGRAMS, AND SPECIFICATIONS. THIS INCLUDES A COMPLETE INSTALLATION OF ALL PASSIVE INFRASTRUCTURE ELEMENTS INCLUDING, BUT NOT LIMITED TO: CABLING, SPLICE CASES, LABELING TAGS, ATTACHMENT HARDWARE, BONDING, TERMINATIONS, TESTING, LABELING, WARRANTIES, AND ALL REQUIRED CLOSE-OUT DOCUMENTS.

COORDINATION WITH OTHER TRADES:
EXAMINE AND REVIEW THE DOCUMENTS OF ALL DIVISIONS IN ORDER TO COORDINATE THE INSTALLATION OF WORK. USE DIMENSIONED DRAWINGS TO VERIFY THE SPACE NECESSARY FOR LOCATING DUCTBANKS, MANHOLES, HANDHOLES, AND EQUIPMENT. USE FIELD MEASUREMENTS TO VERIFY DIMENSIONS WHERE AREAS ARE CONGESTED, AND EXACT LOCATION IS CRITICAL TO ENSURE PROPER INSTALLATION. COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFYING THE LOCATION OF TELECOM SYSTEMS, WITH EXISTING UTILITIES AND/OR OTHER INSTALLING SYSTEM TRADES; ALLOCATION OF SPACE WITH OTHER TRADES; AND THE PHASING OF INSTALLATION WORK WITH THAT OF OTHER TRADES. INSTALLATION SHALL CONFORM WITH ANSI STANDARD C2 "NATIONAL ELECTRICAL SAFETY CODE" (NESC), NFPA 70 "NATIONAL ELECTRICAL CODE," ANSI/TIA AND ELECTRICAL SPECIFICATIONS (UNO).

GENERAL CABLING REQUIREMENTS:
COPPER CABLES SHALL BE RACKED TO THE MAINTENANCE HOLE SIDEWALLS IN SUCH A MANNER SO AS TO MAKE THE BEST USE OF THE AVAILABLE WALL SPACE. WHEN PLACING CABLES, CARE SHALL BE TAKEN TO AVOID BLOCKING DUCTS IN THE SIDEWALLS OR ACCESS TO SPLICE CASES. FIBER OPTIC CABLES SHALL BE PROVIDED WITH A 50-FOOT SERVICE LOOP INSTALLED IN EACH PULL-THROUGH MAINTENANCE HOLE / HANDHOLE OR A 25-FOOT SPLICE LOOP INSTALLED ON EACH SIDE OF A SPLICE CASE. THE SERVICE AND SPLICE SLACK SHALL BE COILED AND LIGHTLY SECURED IN LOOPS THAT DO NOT VIOLATE THE BENDING RADIUS. THE SLACK SHALL BE PLACED IN THE MAINTENANCE HOLE IN SUCH A MANNER THAT THE CABLES ARE OUT OF THE WAY AND NOT WRAPPED AROUND OTHER CABLES OR LYING ON THE BOTTOM.

OUTSIDE PLANT FIBER:
OUTSIDE PLANT OPTICAL FIBER CABLES SHALL COMPLY WITH THE TESTING AND TEST METHODS REQUIREMENTS IN TIA 472D000-B/ICEA S-87-640 FOR ITS CABLE DESIGN. OUTSIDE PLANT FIBER SHALL BE SINGLEMODE CONTAINING A NOMINAL CORE DIAMETER OF 8.3 MICRONS AND CLADDING DIAMETER OF 125 MICRONS (UNO). OUTDOOR CABLE SHALL HAVE A MINIMUM PULL STRENGTH OF 2670 N (600 LBF). OUTDOOR OPTICAL FIBER CABLES SHALL BE ALL DIELECTRIC, SUPPORTING A BEND RADIUS OF 15 TIMES THE CABLE OUTSIDE DIAMETER WHEN NOT SUBJECT TO TENSILE LOAD, AND 20 TIMES THE CABLE OUTSIDE DIAMETER WHEN SUBJECT TO TENSILE LOADING UP TO THE CABLE'S RATED LIMIT.

OUTSIDE PLANT TWISTED PAIR COPPER:
THE MINIMUM BEND RADIUS FOR NON-GOPHER RESISTANT OSP TWISTED-PAIR CABLE DURING INSTALLATION SHALL NOT BE LESS THAN 10 TIMES THE CABLE DIAMETER, AND AFTER INSTALLATION SHALL NOT BE LESS THAN 8 TIMES THE CABLE DIAMETER. THE MINIMUM BEND RADIUS FOR GOPHER RESISTANT OSP TWISTED-PAIR CABLE DURING INSTALLATION SHALL NOT BE LESS THAN 15 TIMES THE CABLE DIAMETER, AND AFTER INSTALLATION SHALL NOT BE LESS THAN 10 TIMES THE CABLE DIAMETER.

OUTSIDE PLANT CONTRACTOR COORDINATION NOTE:

ELECTRICAL GENERAL NOTES - OUTSIDE PLANT (OSP):

ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE EXTERIOR SITE PATHWAYS AND SUPPORT SYSTEM NECESSARY FOR THE COMPLETE TELECOM OUTSIDE PLANT CABLING SYSTEM DEFINED IN THE SITE PLANS, ASSOCIATED DETAILS, DIAGRAMS, AND SPECIFICATIONS. THIS INCLUDES A COMPLETE INSTALLATION OF ALL REQUIRED PATHWAYS INCLUDING, BUT NOT LIMITED TO: UNDERGROUND DUCTBANKS, VAULTS, MANHOLES, HANDHOLES, PULL BOXES, REQUIRED DIRECTIONAL BORING / DRILLING, GROUNDING / BONDING, CONDUIT SLEEVES, POWER, AND ANY OTHER NECESSARY APPURTENANCES.

COORDINATION WITH OTHER TRADES:

WITH OTHER TRADES EXAMINE AND REVIEW THE DOCUMENTS OF ALL DIVISIONS IN ORDER TO COORDINATE THE INSTALLATION OF WORK. USE DIMENSIONED DRAWINGS TO VERIFY THE SPACE NECESSARY FOR LOCATING DUCTBANKS, MANHOLES, HANDHOLES, AND EQUIPMENT. USE FIELD MEASUREMENTS TO VERIFY DIMENSIONS WHERE AREAS ARE CONGESTED, AND EXACT LOCATION IS CRITICAL TO ENSURE PROPER INSTALLATION. COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFYING THE LOCATION OF TELECOM SYSTEMS, WITH EXISTING UTILITIES AND/OR OTHER INSTALLING SYSTEM TRADES; ALLOCATION OF SPACE WITH OTHER TRADES; AND THE PHASING OF INSTALLATION WORK WITH THAT OF OTHER TRADES.INSTALLATION SHALL CONFORM WITH ANSI STANDARD C2 "NATIONAL ELECTRICAL SAFETY CODE" (NESC), NFPA 70 "NATIONAL ELECTRICAL CODE," ANSI/TIA AND ELECTRICAL SPECIFICATIONS (UNO).

UNDERGROUND ENTRANCE:

ENTRANCE CONDUITS SHALL PASS BELOW FOOTERS OR THROUGH THE BUILDING FOUNDATION WALL; THE FOOTER PORTION OF THE FOUNDATION SHALL NOT BE CUT. GALVANIZED RSC SLEEVES SHALL BE PLACED WHERE THE ENTRANCE CONDUITS PASS THROUGH FOUNDATION WALLS. ANNULAR SPACES BETWEEN THE CONDUITS AND FLOORS / WALLS SHALL BE SEALED TO PREVENT WATER INTRUSION AND SHALL BE FIRE STOPPED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AND LOCAL CODES. CONDUITS SHALL EXTEND ABOVE THE FINISHED FLOOR OR BELOW THE CEILING TO AID IN PULLING CABLES. ENTRANCE CONDUITS SHALL BE PLUGGED OR SEALED. SCHEDULE 40 AND SCHEDULE 80 RIGID NONMETALLIC CONDUIT SHALL MEET NEMA STANDARD TC-2.

DRAIN SLOPE:

UNDERGROUND CONDUIT SHOULD BE INSTALLED SUCH THAT A SLOPE EXISTS AT ALL POINTS OF THE RUN TO ALLOW DRAINAGE AND PREVENT THE ACCUMULATION OF WATER. A DRAIN SLOPE OF NO LESS THAN 10 MM PER METER (.125 IN PER FOOT) IS DESIRABLE WHEN EXTENDING CONDUIT AWAY FROM BUILDING STRUCTURES. WHERE CONDUIT EXTENDS BETWEEN MAINTENANCE HOLES, A SLOPE OF 10 MM PER METER (.125 IN PER FOOT) SHOULD EXTEND FROM THE MIDDLE OF THE SPAN TO EACH MAINTENANCE HOLE.

DUCT SPACERS:

SPACERS SHALL BE USED TO PROPERLY SUPPORT DUCTS THAT ARE TO BE CONCRETE-ENCASED AND SHALL BE INSTALLED IAW THE MANUFACTURER'S SPECIFICATIONS. IF THE MANUFACTURER'S SPECIFICATIONS ARE UNKNOWN, A SPACER SHALL BE INSTALLED A MINIMUM OF ONE SPACER EVERY 10 FEET. DUCTS SUPPLIED IN 20-FOOTLENGTHS REQUIRE SPACERS EVERY 5 FEET. THE DUCT SHALL NOT BE DAMAGED, CRACKED, OR CRUSHED PRIOR TO OR DURING INSTALLATION. CONDUIT SYSTEMS NOT ENCASED IN CONCRETE SHALL BE INSTALLED IN LAYERS WITH BACKFILL INSTALLED AROUND AND BETWEEN THE DUCTS. TO PROVIDE INTEGRITY OF ORIENTATION, SPACERS SHALL BE USED WHERE CONDUITS ARE NOT ENCASED IN CONCRETE AT LENGTHS INDICATED.

DUCT PLUGS:

DUCTS SHALL BE SEALED TO RESIST LIQUID AND GAS INFILTRATION AT ALL NEW INSTALLATIONS AT MAINTENANCE HOLES AND BUILDING ENTRANCE POINT LOCATIONS.

WARNING TAPE:

ALL WARNING TAPE SHALL BE POLYETHYLENE (PE) PLASTIC TAPE, A MINIMUM WIDTH OF 6 INCHES IAW THE APWA UNIFORM COLOR CODE, AND IMPRINTED WITH THE WORDS "WARNING - TELECOMMUNICATION CABLE BELOW" AT NOT MORE THAN 48-INCH INTERVALS. MINIMUM THICKNESS OF THE TAPE SHALL BE 0.10 MM (0.004 IN). TAPE SHALL HAVE A MINIMUM STRENGTH OF 1750 POUNDS PER SQUARE INCH (PSI) LENGTHWISE AND 1500 PSI CROSSWISE. TAPE SHALL BE MANUFACTURED WITH AN INTEGRAL #8 TRACER WIRE.

DETECTABLE WARNING TAPE INSTALLATION:

DETECTABLE WARNING TAPE SHALL BE INSTALLED 18 IN ABOVE ALL NEW NON-METALLIC CONDUIT, AND IT SHALL NOT EXCEED THE MANUFACTURER'S RECOMMENDED DEPTH BELOW GRADE.

LENGTHS BETWEEN PULLING POINTS:

THE SECTION LENGTH OF CONDUIT SHALL NOT EXCEED 400 FT BETWEEN PULLING POINTS (UNO).

BENDS:

WHERE BENDS ARE REQUIRED, MANUFACTURED BENDS SHOULD BE USED WHENEVER POSSIBLE. BENDS MADE MANUALLY SHALL NOT REDUCE THE INTERNAL DIAMETER OF THE CONDUIT. ALL BENDS SHALL BE RADIAL SWEEPS. DURING INSTALLATION, THE MINIMUM BENDING RADIUS FOR FOC SHALL BE NO LESS THAN 20 TIMES THE OUTSIDE DIAMETER OF THE FOC, OR AS SPECIFIED BY THE CABLE MANUFACTURER. AFTER INSTALLATION, IT SHALL BE NO LESS THAN 15 TIMES THE CABLE DIAMETER.

INSIDE PLANT GENERAL NOTES:

GENERAL:
THE TELECOMMUNICATIONS DRAWINGS PROVIDED ARE DIAGRAMMATIC AND SHOW THE GENERAL LOCATION OF ALL REQUIRED DEVICES; SUCH AS OUTLETS, RACEWAYS, EQUIPMENT, AND APPURTENANCES. THEY DO NOT SHOW ALL NECESSARY OFFSETS, JUNCTION BOXES, CABLE/LADDER TRAY TRANSITIONS, CONDUIT SLEEVES/PENETRATIONS, AND ADJUSTMENTS NECESSARY BY COORDINATION WITH OTHER TRADES IN THE FIELD.

TELECOMMUNICATION CONTRACTOR'S SCOPE OF WORK:
TELECOMMUNICATION'S CONTRACTOR SHALL BE RESPONSIBLE FOR ENTIRE STRUCTURED CABLING SYSTEM ELEMENTS DEFINED IN THIS SCOPE OF WORK. THIS INCLUDES A COMPLETE INSTALLATION OF ALL PASSIVE INFRASTRUCTURE ELEMENTS SUCH AS OUTLETS, JACKS, CABLING, CABINETS, RACKS. BACKBOARDS, LADDER TRAY (LIMITED TO TELECOM ROOMS), TELECOM EQUIPMENT ROOM/CABINET BONDING, TERMINATIONS, TESTING, LABELING, WARRANTIES, AND ALL REQUIRED CLOSE-OUT DOCUMENTS. THE TELECOMMUNICATIONS CONTRACTOR SHALL UNDERSTAND THE FULL INTENT OF THE DRAWINGS AND SPECIFICATIONS PRIOR TO BID, AND WILL INCLUDE IN SCOPE OF WORK ALL REQUIREMENTS NECESSARY TO ENSURE A FULLY FUNCTIONAL SYSTEM.

COORDINATION:
WITH OTHER TRADES EXAMINE AND REVIEW THE DOCUMENTS OF ALL DIVISIONS IN ORDER TO COORDINATE THE INSTALLATION OF WORK. USE DIMENSIONED DRAWINGS TO VERIFY THE SPACE NECESSARY FOR LOCATING OUTLETS, RACEWAYS, AND EQUIPMENT. USE FIELD MEASUREMENTS TO VERIFY DIMENSIONS WHERE AREAS ARE CONGESTED, AND EXACT LOCATION IS CRITICAL TO ENSURE PROPER INSTALLATION. COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO; VERIFYING THE LOCATION AND SIZE OF OPENINGS/PENETRATIONS IN FLOORS, WALLS, PARTITIONS, CEILINGS, AND ROOFS WITH THE INSTALLING TRADES; ALLOCATION OF SPACE WITH OTHER TRADES, INSTALLING WORK IN CHASES, SHAFTS, CEILING INTERSTITIAL SPACES, AND EQUIPMENT SPACES; AND THE PHASING OF INSTALLATION WORK WITH THAT OF OTHER TRADES. INSTALLATION SHALL CONFORM WITH NFPA 70 "NATIONAL ELECTRICAL CODE," ANSI/TIA, (UNO).

CABLING INSTALLATION:
ALL CABLING ROUTED IN SLAB, BELOW VAPOR BARRIER OR BELOW GRADE, SHALL BE U.L. LISTED FOR WET LOCATIONS THAT COMPLIES WITH NFPA 70 (NEC): PART V, 725.3(L), 110.11, 300.5(B), 300.6, AND 310.10(G). DO NOT USE PLENUM OR RISER RATED CABLE, GEL-FILLED OSP, AND UNLISTED CABLES IN SUCH AN ENVIRONMENT. FOR IN-FLOOR CONDUIT SYSTEMS, PROVIDE HOME RUNS BACK TO THE TR SERVING THAT AREA.
USE A FILL RATIO OF 40 PERCENT FOR CONDUIT SIZING. DO NOT INSTALL MORE THAN FOUR, FOUR-PAIR CABLES IN A 1 INCH (27 MM) CONDUIT.
PROVIDE PULL STRING IN ALL EMPTY CONDUITS AND INNERDUCT. PULL STRING TO BE RATED FOR 200LBS IN ALL CONDUITS. TELECOMMUNICATIONS FACEPLATES SHALL MATCH ELECTRICAL SWITCH AND RECEPTACLE PLATE FINISHES. PROVIDE COVER PLATES FOR ALL UNUSED J-BOX LOCATIONS.
LABEL ALL CABLES WITHIN 4 INCHES OF EACH TERMINATION. PROVIDE 12 INCHES SERVICE LOOP AT THE WORK AREA END OF EACH HORIZONTAL CABLE. INSTALL VELCRO CABLE TIES TO ALL CABLE BUNDLES IN CABLE TRAY, NON-CONTINUOUS SUPPORTS, RACK WIRE MANAGEMENT, D-RINGS AND OTHER SUPPORT MEANS. BUNDLE ALL DIFFERENTIATING NETWORK CABLING SEPARATELY. BALANCED TWISTED-PAIR CABLING SHALL BE SEPARATED FROM FLUORESCENT LAMPS AND ASSOCIATED FIXTURES BY A MINIMUM OF 5 IN.

NON-CONTINUOUS CABLE SUPPORTS (WHEN SPECIFIED):
SUPPORTS MUST NOT EXCEED 20 CABLES OR 50 PERCENT OF THE FILL CAPACITY, WHICHEVER IS LESS; INTERVALS NOT TO EXCEED 5 FT.

CABLING INSTALLATION IN CABLE TRAYS:
A MINIMUM OF 12 IN ACCESS HEADROOM SHALL BE PROVIDED AND MAINTAINED ABOVE A CABLE TRAY SYSTEM OR CABLE RUNWAY. A MINIMUM OF 3 IN CLEAR VERTICAL SPACE SHALL BE AVAILABLE ABOVE ACCESSIBLE CEILING, BELOW THE CABLE TRAY. THE MAXIMUM FILL OF ANY CABLE TRAY SHALL NOT EXCEED 25% (UNO), ALLOWING FACILITY USERS AN ADDITIONAL 25% SPARE CAPACITY. THE MAXIMUM FILL DEPTH OF ANY CABLE TRAY SHALL NOT EXCEED 6 IN.

MAIN TELECOM ROOM (MTR) / TELECOM ROOMS (TRs):
CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO ENSURE TELECOM ROOMS ARE DIMENSIONALLY CONSTRUCTED AS DESIGNED. THIS INCLUDES USING FIELD MEASUREMENTS TO VERIFY ROOM DIMENSIONS, CONDUIT LOCATIONS (PRIOR TO CONCRETE POUR), WALL PENETRATIONS, AND DEVICE PLACEMENT. INSTALL BACKBOARDS IN ACCORDANCE WITH TIA-569-D. BACKBOARDS MUST BE FIRE-RETARDANT TREATED WOOD, BEARING THE MANUFACTURER'S STAMP. IF PAINTED, THE MANUFACTURER'S FIRE RATED STAMP MUST REMAIN VISIBLE. INSTALL FLOOR MOUNTED EQUIPMENT RACKS / CABINETS LOCATED AT OR NEAR THE CENTER OF THE TELECOMMUNICATION ROOM. MAINTAIN A MINIMUM OF 36 INCHES SPACE BOTH IN FRONT AND IN BACK OF THE RACK, MEASURED FROM THE EQUIPMENT, AND A MINIMUM SIDE CLEARANCE OF 24 INCHES ON AT LEAST ONE END OF THE RACK OR ROW OF ADJACENT RACKS IS REQUIRED. PROVIDE 25% SPARE CAPACITY WITHIN EACH UTILIZED RACK.

FURNITURE/MILLWORK:
ENSURE THAT THE CABLE IS PROTECTED AT ALL TRANSITION POINTS, AND THAT METALLIC SEPARATION IS PROVIDED BETWEEN TELECOMMUNICATION AND POWER WIRING IN THE UTILITY COLUMNS AND SYSTEMS FURNITURE TRACK IN ACCORDANCE WITH TIA-569-D AND NFPA 70.

INSIDE PLANT CONTRACTOR COORDINATION NOTE:

ELECTRICAL GENERAL NOTES - FACILITY INFRASTRUCTURE:

ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INTERIOR ROUGH-IN AND SUPPORT SYSTEM NECESSARY FOR THE COMPLETE STRUCTURED CABLING SYSTEM DEFINED IN THIS SCOPE OF WORK. THIS INCLUDES A COMPLETE INSTALLATION OF ALL REQUIRED PATHWAYS INCLUDING: CABLE TRAY (EXCLUDES TRAY IN MTR/TR), CONDUIT, BACK BOXES, JUNCTION BOXES, FLOOR BOXES, BLOCKING, GROUNDING CONDUCTORS AND BUSBARS, FIRESTOPPING, POWER, AND ANY OTHER NECESSARY APPURTENANCES. THE ELECTRICAL CONTRACTOR SHALL UNDERSTAND THE FULL INTENT OF THE DRAWINGS AND SPECIFICATIONS PRIOR TO BID, AND WILL INCLUDE IN SCOPE OF WORK ALL REQUIREMENTS NECESSARY TO SUPPORT THE TELECOMMUNICATIONS SYSTEM TO COORDINATE AND ENSURE A FULLY FUNCTIONAL SYSTEM.

COORDINATION WITH OTHER TRADES:

EXAMINE AND REVIEW THE DOCUMENTS OF ALL DIVISIONS IN ORDER TO COORDINATE THE INSTALLATION OF WORK. USE DIMENSIONED DRAWINGS TO VERIFY THE SPACE NECESSARY FOR LOCATING OUTLETS, RACEWAYS, AND EQUIPMENT. USE FIELD MEASUREMENTS TO VERIFY DIMENSIONS WHERE AREAS ARE CONGESTED, AND EXACT LOCATION IS CRITICAL TO ENSURE PROPER INSTALLATION. COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFYING THE LOCATION AND SIZE OF OPENINGS/PENETRATIONS IN FLOORS, WALLS, PARTITIONS, CEILINGS, AND ROOFS WITH THE INSTALLING TRADES; ALLOCATION OF SPACE WITH OTHER TRADES, INSTALLING WORK IN CHASES, SHAFTS, CEILING INTERSTITIAL SPACES, AND EQUIPMENT SPACES; AND THE PHASING OF INSTALLATION WORK WITH THAT OF OTHER TRADES. INSTALLATION SHALL CONFORM WITH NFPA 70 "NATIONAL ELECTRICAL CODE," ANSI/TIA AND ELECTRICAL SPECIFICATIONS (UNO).

CONDUIT:

INSTALL ELECTRICAL METALLIC TUBING (EMT) CONDUIT FROM THE CABLE BACKBONE DISTRIBUTION SYSTEM, WHETHER CABLE TRAY OR ENCLOSED DUCT, TO EACH OUTLET (UNO).PROVIDE A MINIMUM OF 1 INCH EMT CONDUIT FOR STANDARD OUTLETS. WHEN CABLE TRAY OR ENCLOSED DUCT IS NOT USED, INSTALL INDIVIDUAL CONDUITS FROM THE MTR/TR TO EACH OUTLET. CONDUITS HAVE BEEN SIZED BASED ON THE NFPA, AS WELL AS ANSI/TIA 569. WHERE INSTALLATIONS VARY, INCREASE CONDUITS SIZES ACCORDING TO MAXIMUM NUMBER OF CABLES BASED ON ALLOWABLE FILL RATIO OF 40%. FOR IN-SLAB TELECOM DEVICES, WITH CONDUIT SYSTEMS LOCATED BELOW VAPOR BARRIER OR BELOW GRADE, PROVIDE HOME RUNS BACK TO THE MTR/TR SERVING THAT AREA. METALLIC PATHWAYS 3 FT OR GREATER IN LENGTH SHALL COMPLY WITH THE BONDING REQUIREMENTS OF ANSI/TIA-607. FOR CONDUITS WITH AN INTERNAL DIAMETER OF 2 IN OR LESS, THE INSIDE RADIUS OF A BEND IN CONDUIT SHALL BE AT LEAST 6 TIMES THE INTERNAL DIAMETER. FOR CONDUITS WITH AN INTERNAL DIAMETER OF MORE THAN 2 IN, THE INSIDE RADIUS OF A BEND IN CONDUIT SHALL BE AT LEAST 10 TIMES THE INTERNAL DIAMETER. BENDS IN THE CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES THAT MAY HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING CABLE PULLING OPERATIONS. CONDUITS SHALL BE REAMED TO ELIMINATE SHARP EDGES. METALLIC CONDUIT SHALL BE TERMINATED WITH AN INSULATED BUSHING. DO NOT USE FLEXIBLE METAL CONDUIT FOR TELECOMMUNICATIONS WIRING EXCEPT WHEN INSTALLING ACCESS FLOOR BOXES IN AN ACCESS FLOOR, WHERE THE ACCESS FLOOR BOX MAY BE RELOCATED WITHIN A SPECIFIED SERVICE AREA. IN THIS CASE THE LENGTH OF THE FLEXIBLE METAL CONDUIT MUST NOT EXCEED A LENGTH OF 20 FEET (6 M) FOR EACH RUN PER TIA-569-D. ALL PENETRATIONS SHALL BE SEALED WITH AN APPROVED SEALANT OR U.L. LISTED PENETRATION DEVICE THAT WILL MAINTAIN THE FIRE, SMOKE AND WATERPROOF OR OTHER APPLICABLE RATINGS OF THE TYPE OF CONSTRUCTION BEING PENETRATED. SEE ARCHITECTURAL DRAWINGS FOR PENETRATION REQUIREMENTS. UNLESS NOTED OTHERWISE, ALL CONDUITS SHALL BE INSTALLED CONCEALED UNDER FLOOR SLABS, ABOVE THE CEILING AND WITHIN THE FINISHED WALLS. ALL OUTLET BOXES SHALL BE INSTALLED FLUSH MOUNTED WITHIN FINISHED WALLS, CEILINGS OR FLOORS. SURFACE MOUNTED RACEWAY AND OUTLET BOXES SHALL NOT BE PERMITTED ON FINISHED WALLS, CEILINGS OR FLOORS EXCEPT AS INDICATED ON THE DRAWINGS. WHEN SURFACE MOUNT RACEWAYS ARE INDICATED, PROVIDE RACEWAY TO EMT TRANSITIONAL ADAPTER AT ALL ACCESSIBLE CEILINGS. ABOVE ACCESSIBLE CEILING, ROUTE EMT TO SERVING CABLE TRAY OR SERVING MTR/TR.
PULL ROPE SHALL BE INSTALLED IN ALL CONDUITS. PULL ROPE SHALL HAVE A MINIMUM 600LB TENSILE STRENGTH FOR ALL TELECOMMUNICATIONS CONDUITS.

WORK AREA OUTLETS:

INSTALL DOUBLE GANG ELECTRICAL BOXES, MINIMUM STANDARD SIZE 4-11/16 INCHES SQUARE AND 2-1/8 INCHES DEEP WITH APPROPRIATELY SIZED PLASTER RING FOR CONNECTION OF SINGLE GANG OR DOUBLE GANG FACEPLATE. INSTALL OUTLET BOX FOR RECESS MOUNTING WITH THE FACEPLATE FLUSH WITH THE WALL SURFACE, AT THE SAME HEIGHT AS THE ELECTRICAL OUTLETS. DO NOT PUT OUTLET BOXES IN SAME STUD CAVITY WHERE BOXES ARE ON EACH SIDE OF STC RATED WALLS.

POWER:

INSTALL A QUADRUPLEX ELECTRICAL OUTLET WITHIN 6 INCHES OF ALL WORK AREA OUTLETS TO SERVE TELECOMMUNICATIONS LOADS ASSOCIATED WITH THAT OUTLET.

TELECOM GROUNDING / BONDING:

INSTALL ALL REQUIRED TELECOM GROUNDING / BONDING PER ANSI/TIA 607, ELECTRICAL SPECIFICATIONS, TELECOM GROUNDING DETAILS / NOTES (UNO).

BLOCKING AND SUPPORT HARDWARE:

INSTALL ALL MOUNTS AND SUPPORT HARDWARE FOR TELECOM SYSTEMS; INCLUDING, UNISTRUT, ALL- THREAD OR THREADED RODS, BLOCKING, SUPPORT CABLES, ETC.

CABLE TRAYS:

THE MAXIMUM FILL OF ANY CABLE TRAY SHALL NOT EXCEED 25%, ALLOWING FACILITY USERS AN ADDITIONAL 25% SPARE CAPACITY, FOR A MAXIMUM 50% FILL RATIO (UNO). THE MAXIMUM FILL DEPTH OF ANY CABLE TRAY SHALL NOT EXCEED 6 IN.
THE SPAN FOR CABLE SUPPORT SYSTEMS SHALL BE DETERMINED IN ACCORDANCE WITH THE MANUFACTURER'S MAXIMUM RECOMMENDED LOAD CAPACITY FOR A GIVEN SPAN. THESE SYSTEMS MAY BE SUPPORTED BY THREE BASIC METHODS:
- CANTILEVER BRACKETS FROM A WALL;
- TRAPEZE OR INDIVIDUAL ROD SUPPORTS FROM ABOVE;
- OR FROM BELOW.

CABLE TRAY SUPPORTS SHALL BE LOCATED WHERE PRACTICAL SO THAT CONNECTIONS BETWEEN SECTIONS OF THE TRAY FALL BETWEEN THE SUPPORT POINT AND ONE-QUARTER THE DISTANCE OF THE SPAN. A SUPPORT SHALL BE PLACED WITHIN 24 IN ON EACH SIDE OF ANY CONNECTION TO A BEND, TEE, OR CROSS. A MINIMUM OF 12 IN ACCESS HEADROOM SHALL BE PROVIDED AND MAINTAINED ABOVE A CABLE TRAY SYSTEM OR CABLE RUNWAY. INSTALL CABLE TRAY WITH SWEEPING RADIAL TURNS. DO NOT INSTALL WITH HARD 90° TURNS. BOND CABLE TRAY PER ANSI/TIA 607, AND GROUNDING DETAILS / NOTES.

PULL BOXES:

PULL BOXES SHALL BE READILY ACCESSIBLE. PULL BOXES SHALL NOT BE PLACED IN A FIXED FALSE CEILING SPACE UNLESS IMMEDIATELY ABOVE A SUITABLY MARKED ACCESS PANEL. A PULL BOX SHALL BE PLACED IN A CONDUIT RUN WHERE:
- THE LENGTH IS OVER 100 FT;
- THERE ARE MORE THAN TWO 90º BENDS, OR EQUIVALENT;
- OR THERE IS A REVERSE (U-SHAPED) BEND IN THE RUN.

PULL BOXES SHALL BE PLACED IN A STRAIGHT SECTION OF CONDUIT. THEY SHALL NOT BE USED IN LIEU OF A BEND. THE CORRESPONDING CONDUIT ENDS SHALL BE ALIGNED WITH EACH OTHER. WHERE A PULL BOX IS REQUIRED WITH CONDUITS SMALLER THAN 1-1/4", AN OUTLET BOX MAY BE USED AS A PULL BOX. IF THE PULL BOX IS COMPRISED OF METALLIC COMPONENTS, IT SHALL BE BONDED TO GROUND.

Donald J McCarthy

100% CONSTRUCTION DOCUMENTS - ISSUED FOR CONSTRUCTION

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FL PE No: 59251
Job Number: 24-007

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

This item has been electronically signed and sealed by David M Bagwell, PE on 10/10/24 using a Digital Signature.

Printed Copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

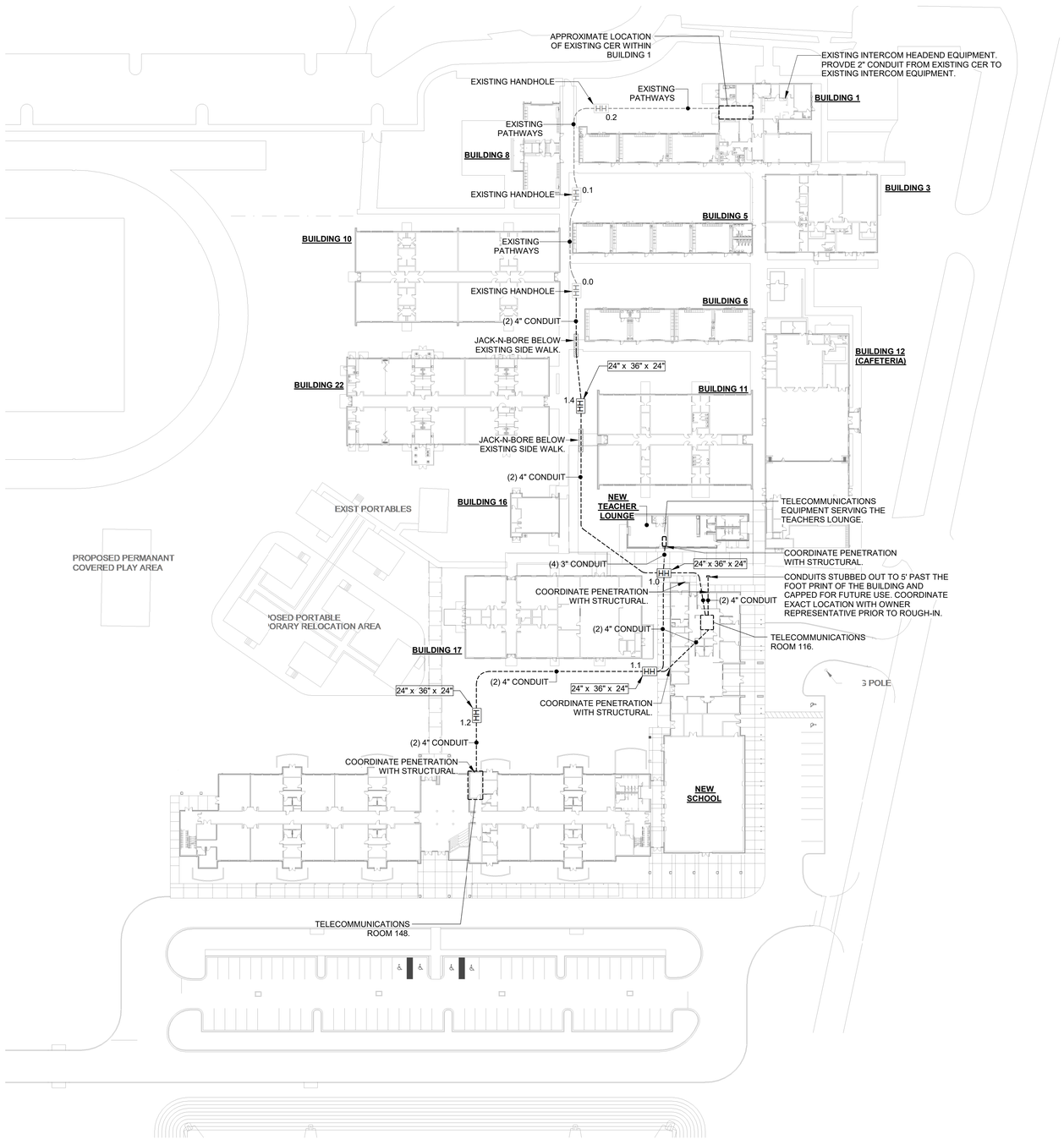
Seal:
DAVID M. BAGWELL LICENSE NO. 59251 STATE OF FLORIDA PROFESSIONAL ENGINEER
10/10/24

Project No.: 83X98735

Drawing Title:
NOTES

Date: 10 October 2024

Designed By:	JW	Drawing No.:
Drawn By:	JW	T-002
Checked By:	DB	



PLAN NORTH

1 TELECOMMUNICATIONS - OVERLAY MAP

1" = 50'-0"

GENERAL NOTES

1. CONTRACTOR SHALL SURVEY EXISTING UTILITIES ALONG THE NEW WORK PATH PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL WALK THE NEW PROPOSED PATHWAY AND FIELD VERIFY EXISTING PAVED SURFACES ALONG THE NEW PATH. ANY PAVED SURFACE THE THE NEW PATHWAY CROSSES WILL NEED TO BE JACK-N-BORED BELOW THE PAVED SURFACE.
3. CONTRACTOR SHALL COORDINATE EXISTING SPECIES OF GRASS AND ALL LANDSCAPING DESIGN REQUIREMENTS WITH JACOBS/TITAN PRIOR TO COMMENCING SITE WORK. AFTER INSTALLATION OF UNDER GROUND PATHWAYS CONTRACTOR SHALL PROVIDE (AT A MINIMUM) SOD THAT MATCHES EXISTING SPECIES TO COVER THE AREAS DISTURBED BY THE CONSTRUCTION OF UNDERGROUND PATHWAYS FOR AREAS OUTSIDE THE BUILDING CONSTRUCTION.

OUTSIDE PLANT (OSP) COORDINATION NOTE

1. THE CONTRACTOR SHALL HAVE A OSP COORDINATION MEETING WITH JACOBS/TITAN PRIOR TO ORDERING ANY MATERIAL FOR OSP. THE MEETING SHALL VERIFY AND CONFIRM THE FINAL REQUIREMENTS FOR CONNECTING TO THE EXISTING SCHOOL "CER" LOCATED IN BUILDING 1.

This item has been electronically signed and sealed by David M Bagwell, PE on 10/10/24 using a Digital Signature.

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Donald J McCarthy

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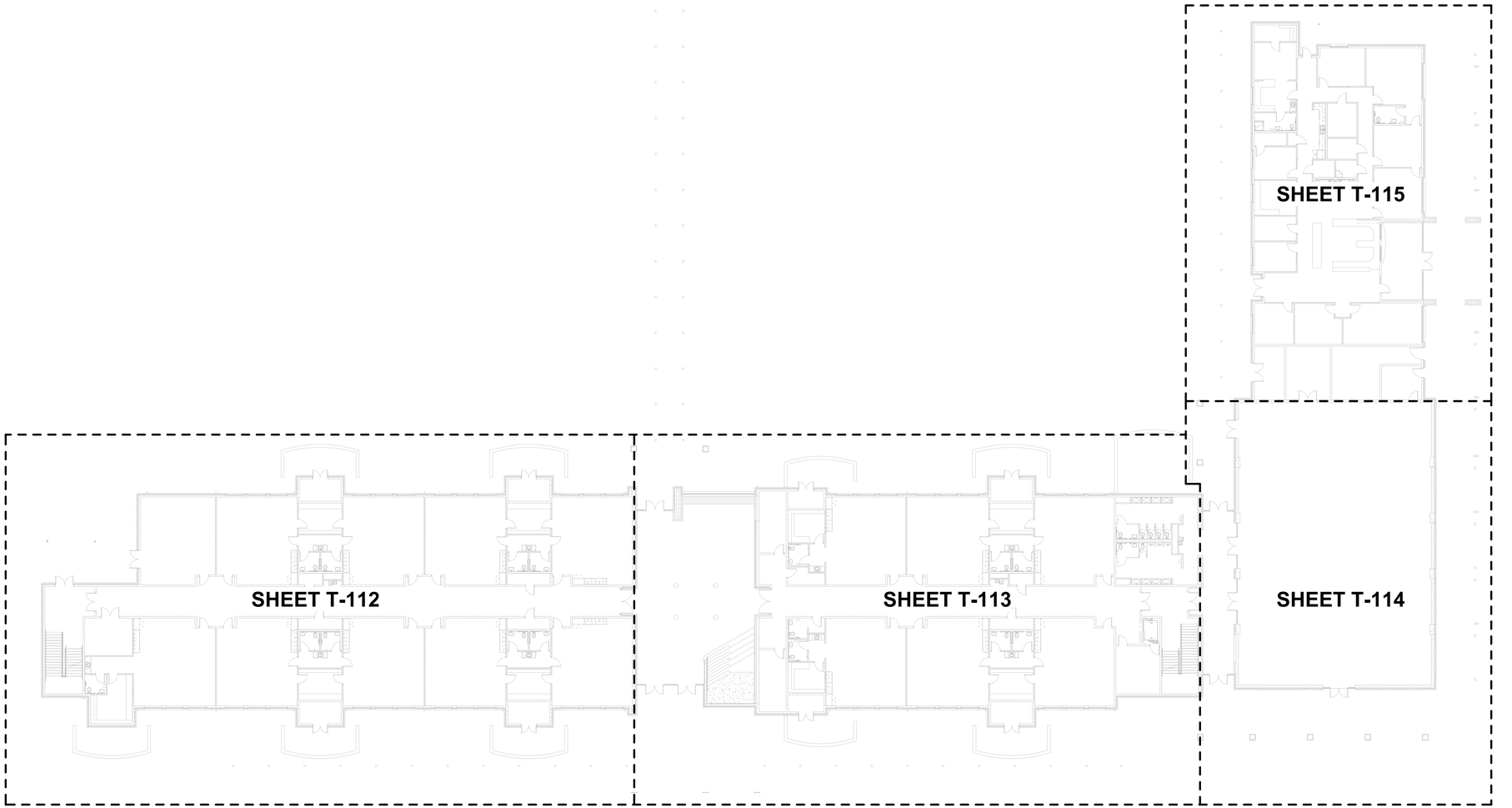
Project No.: 83X98735

Drawing Title:

SITE PLAN - TELECOMMUNICATIONS

Date: 10 October 2024

Designed By:	JW	Drawing No.:
Drawn By:	JW	T-011
Checked By:	DB	



PLAN NORTH

1 / T-111 OVERALL FIRST FLOOR PLAN - TELECOMMUNICATIONS (SCHOOL)
1" = 20'-0"

20' 0' 20' 40'
SCALE: 1"=20'-0"

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FL PE No: 59251
Job Number: 24-007

Revision:

Date:	By:	Description:

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Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M. BAGWELL
LICENSE
No. 59251
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
10/10/24

Project No.: 83X98735

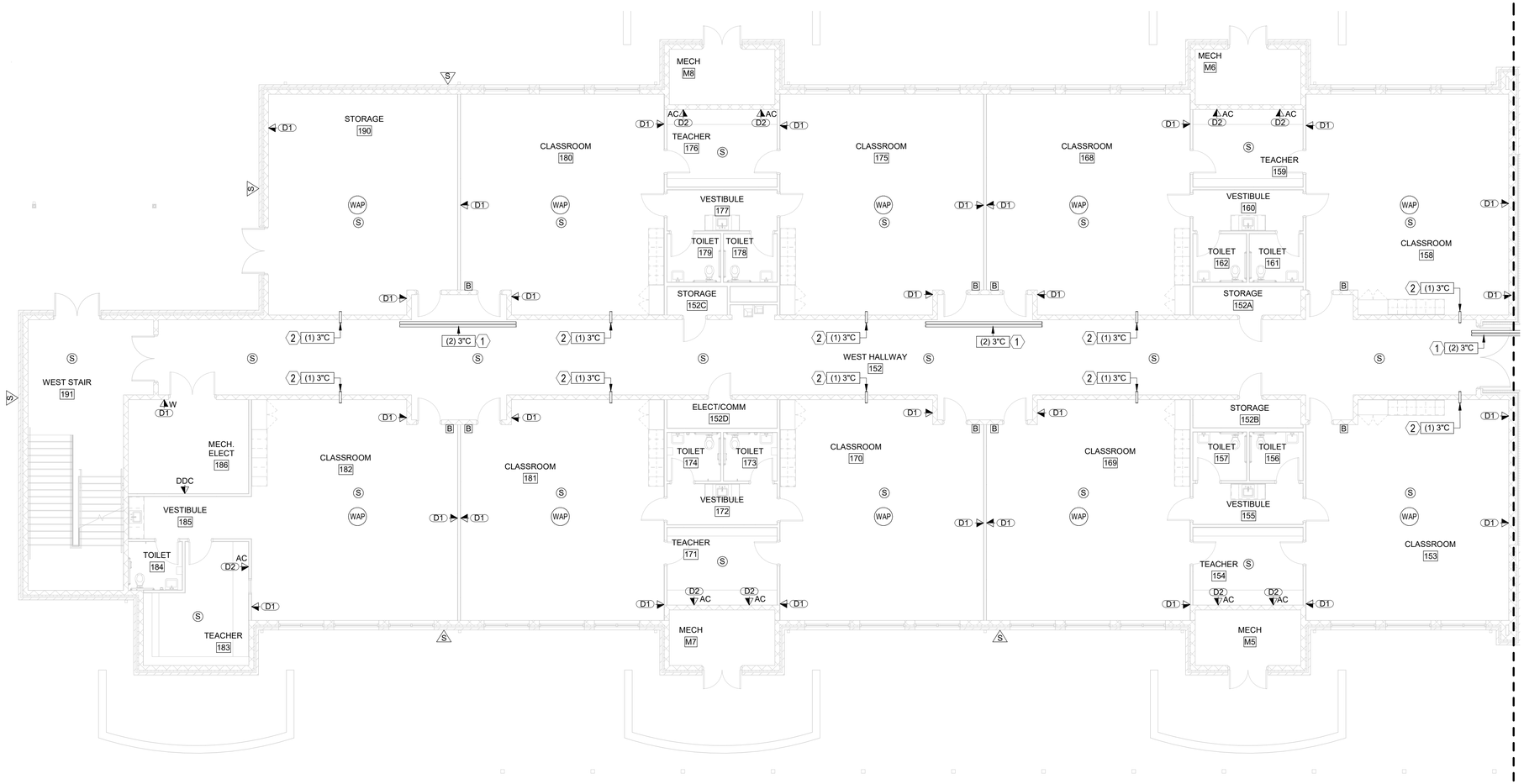
Drawing Title:

OVERALL FIRST FLOOR PLAN - TELECOMMUNICATIONS (SCHOOL)

Date: 10 October 2024

Designed By: JW
Drawn By: JW
Checked By: DB

Drawing No.: T-111



PLAN NORTH

1 / T-112 FIRST FLOOR PLAN - TELECOMMUNICATIONS AREA "A" (SCHOOL)

1/8" = 1'-0"

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

SHEET NOTES

1 (2) 3" CONDUITS ROUTED OVER HARD CEILING MOUNTED TIGHT TO STRUCTURE WHILE MAINTAINING ACCESSIBLITY. EXTEND CONDUITS 12" BEYOND THE ACCESSIBLE CEILING.

2 CONDUIT SLEEVE SHALL BE MOUNTED AS HIGH AS POSSIBLE.

GENERAL NOTES

1. DATA OUTLET AND WAP's LOCATED ON THIS SHEET SHALL BE ROUTED BACK TO TR. 148.

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FL PE No: 59251
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Revision:

Date:	By:	Description:

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Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal: DAVID M. BAGWELL LICENSED PROFESSIONAL ENGINEER No. 59251 10/10/24 STATE OF FLORIDA

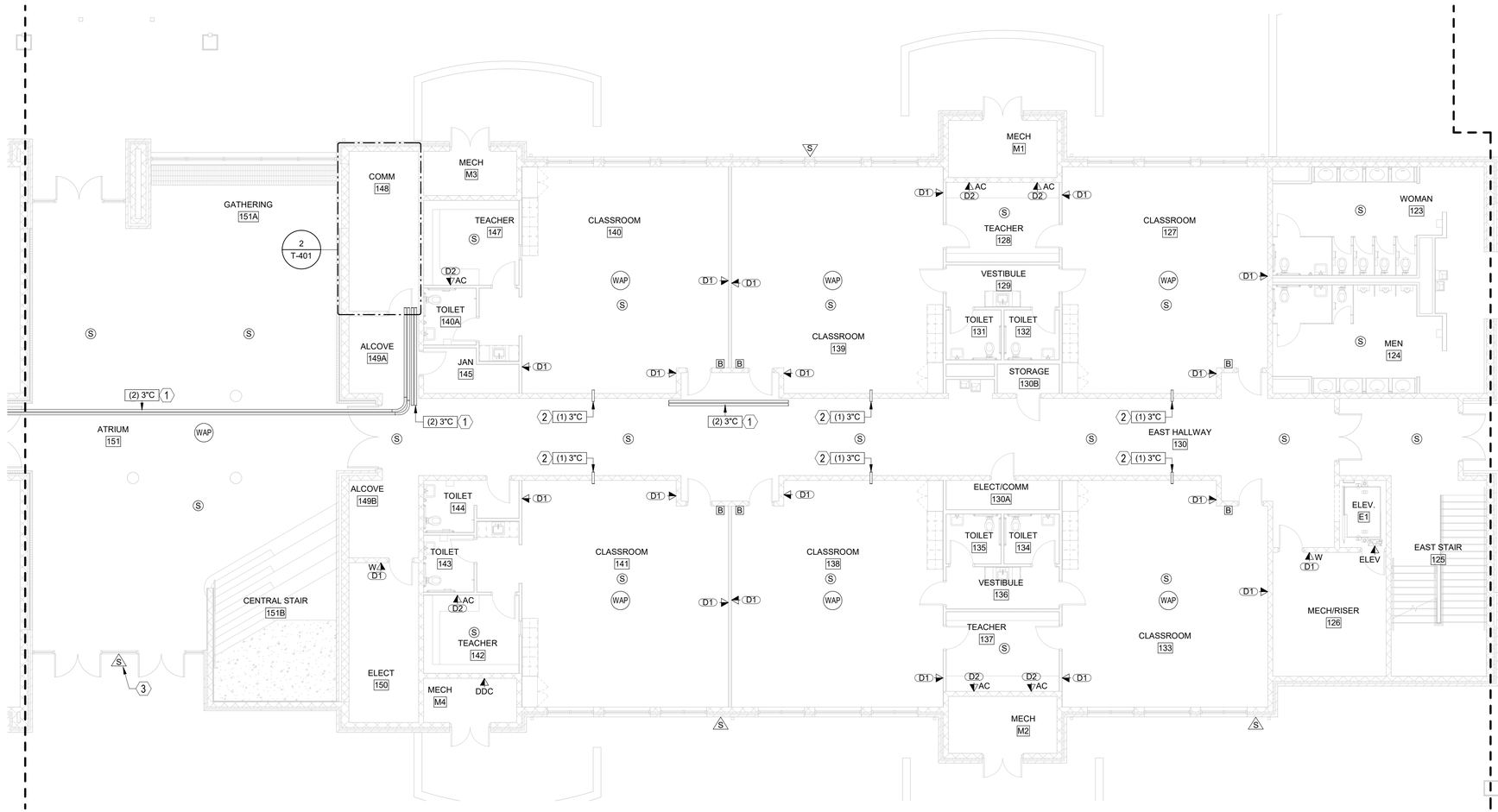
Project No.: 83X98735

Drawing Title:

PARTIAL FIRST FLOOR PLAN - TELECOMMUNICATIONS AREA "A" (SCHOOL)

Date: 10 October 2024

Designed By:	JW	Drawing No.:
Drawn By:	JW	T-112
Checked By:	DB	



PLAN NORTH

1 / T-113 FIRST FLOOR PLAN - TELECOMMUNICATIONS AREA "B" (SCHOOL)

1/8" = 1'-0"

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

SHEET NOTES

1 (2) 3" CONDUITS ROUTED OVER HARD CEILING MOUNTED TIGHT TO STRUCTURE WHILE MAINTAINING ACCESSIBILITY. EXTEND CONDUITS 12" BEYOND THE ACCESSIBLE CEILING.

2 CONDUIT SLEEVE SHALL BE MOUNTED AS HIGH AS POSSIBLE.

3 MOUNT SPEAKER IN THE CENTER THE STUCCO BAND BETWEEN THE GLASS WINDOWS. ROUTE CONDUIT TO THE WEST TOWARDS CLASSROOM 153 CONCEALED WITHIN THE WALL TO ABOVE THE NEAREST ACCESSIBLE CEILING. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL PRIOR TO ROUGH-IN.

GENERAL NOTES

1. DATA OUTLET AND WAP's LOCATED ON THIS SHEET SHALL BE ROUTED BACK TO TR. 148.

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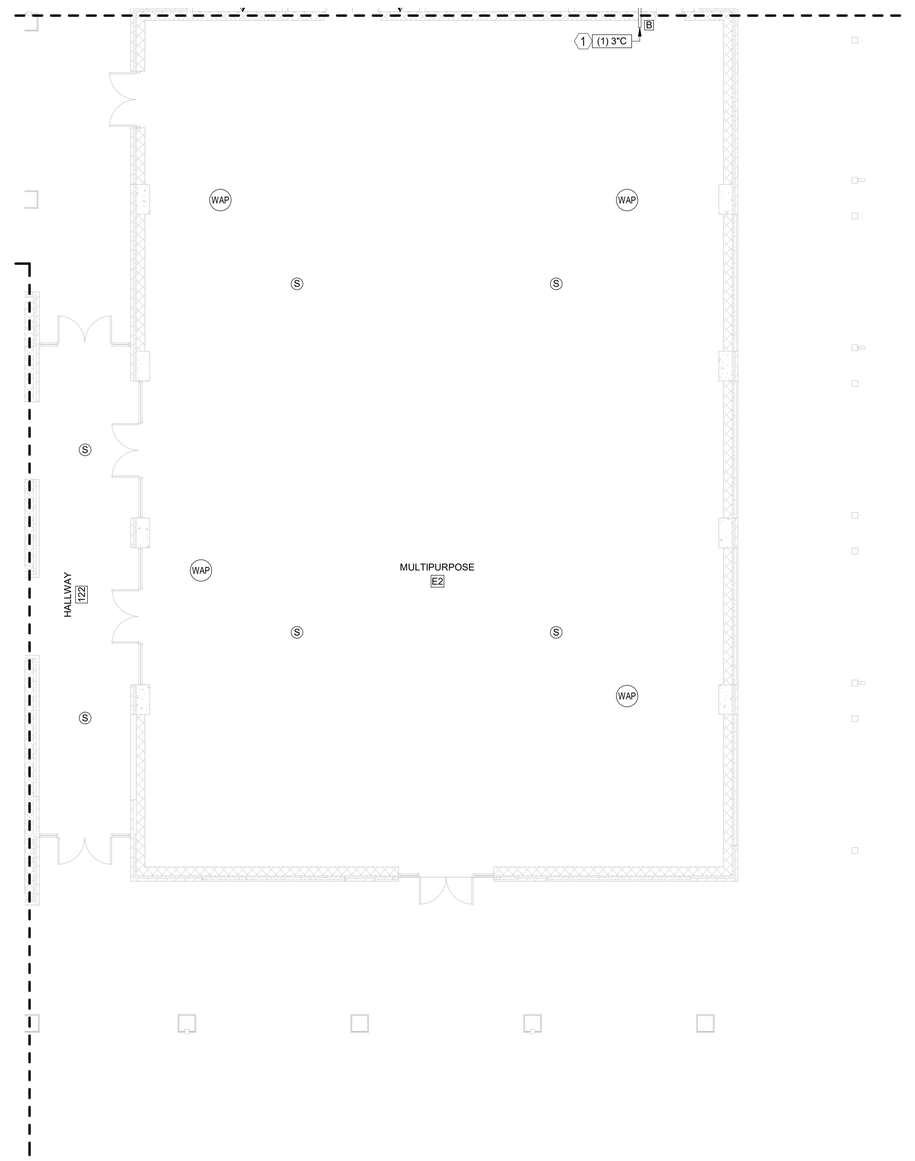
Project No.: 83X98735

Drawing Title:

PARTIAL FIRST FLOOR PLAN - TELECOMMUNICATIONS AREA "B" (SCHOOL)

Date: 10 October 2024

Designed By:	JW	Drawing No.:
Drawn By:	JW	T-113
Checked By:	DB	



PLAN NORTH

1 / T-114 FIRST FLOOR PLAN - TELECOMMUNICATIONS AREA "C" (SCHOOL)

1/8" = 1'-0"

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

GENERAL NOTES

1. DATA OUTLET AND WAP's LOCATED ON THIS SHEET SHALL BE ROUTED BACK TO TR. 116.

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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal: DAVID M. BAGWELL LICENSE NO. 59251 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/24

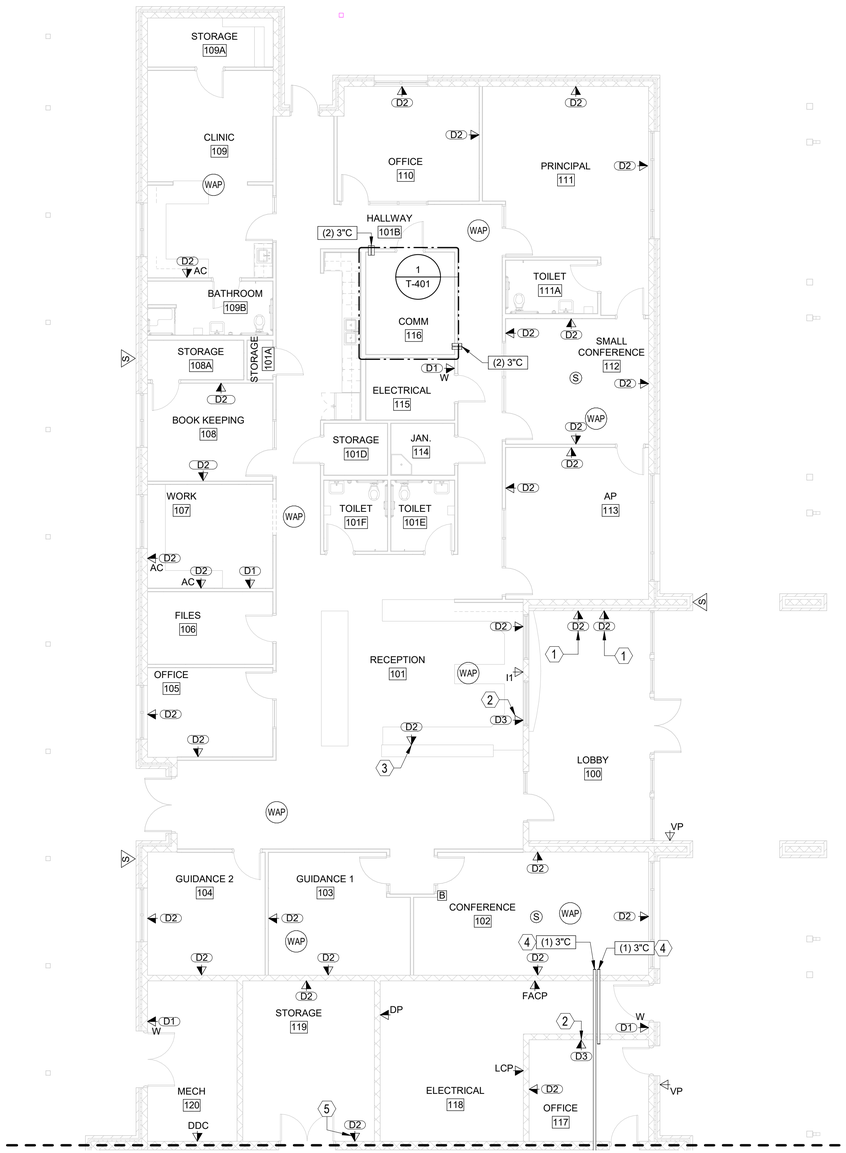
Project No.: 83X98735

Drawing Title:

PARTIAL FIRST FLOOR PLAN - TELECOMMUNICATIONS AREA "C" (SCHOOL)

Date: 10 October 2024

Designed By:	JW	Drawing No.:
Drawn By:	JW	T-114
Checked By:	DB	



PLAN NORTH

1 T-115

FIRST FLOOR PLAN - TELECOMMUNICATIONS AREA "D" (SCHOOL)

1/8" = 1'-0"

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

SHEET NOTES

1 DATA CONNECTION FOR RAPTOR SYSTEM. COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
2 DATA OUTLET INCLUDES CONNECTION FOR VIDEO INTERCOM MASTER STATION.
3 COORDINATE INSTALLATION WITH CASEWORK CONTRACTOR.
4 CONDUIT SLEEVE SHALL BE MOUNTED AS HIGH AS POSSIBLE.
5 DATA OUTLET FOR AV INFRASTRUCTURE. COORDINATE EXACT LOCATION WITH AV CONTRACTOR PRIOR TO ROUGH-IN.

GENERAL NOTES

1. DATA OUTLET AND WAP's LOCATED ON THIS SHEET SHALL BE ROUTED BACK TO TR. 116.

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FL PE No: 59251
Job Number: 24-007

Revision:

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OKALOOSA COUNTY SCHOOL DISTRICT

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DAVID M BAGWELL LICENSE NO. 59251 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/24

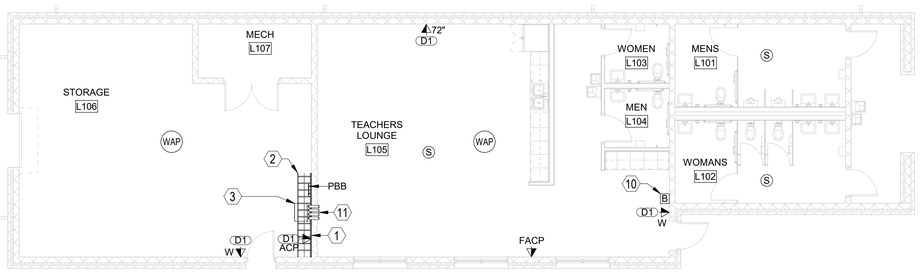
Project No.: 83X98735

Drawing Title:

PARTIAL FIRST FLOOR PLAN - TELECOMMUNICATIONS AREA "D" (SCHOOL)

Date: 10 October 2024

Designed By:	JW	*Drawing No.:*
Drawn By:	JW	T-115
Checked By:	DB	



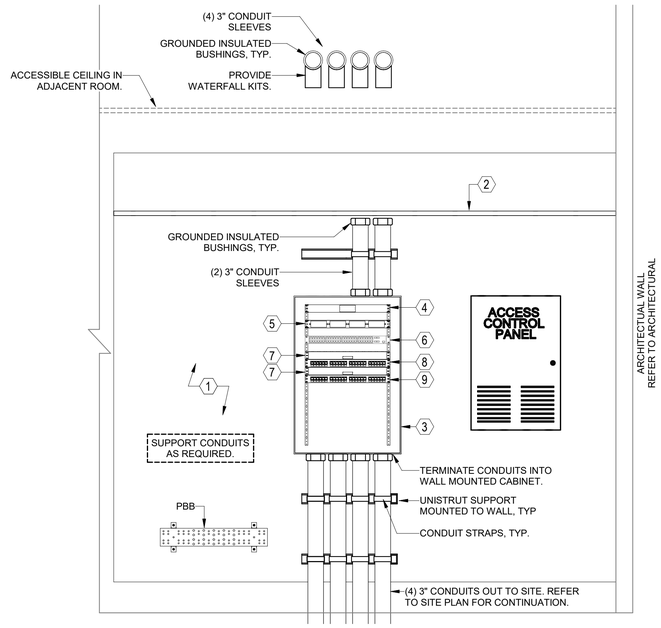
PLAN NORTH

1 FIRST FLOOR PLAN - TELECOMMUNICATIONS (TEACHERS LOUNGE)

1/8" = 1'-0"

8' 0' 8' 16'

SCALE: 1/8"=1'-0"



2 CABINET ELEVATION - (TEACHERS LOUNGE)

NOT TO SCALE

SHEET NOTES

1 PROVIDE 3/4" AC INTERIOR GRADE PAINTED WITH (2) COATS OF GREY FIRE RETARDANT PAINT ON ALL WALLS INCLUDING ABOVE THE DOOR. MOUNT PLYWOOD BACKBOARD 8" AFF TO 8'-8" AFF. PLYWOOD BACKBOARD SHALL BUTTED UP TIGHTLY TO EACH OTHER AND BE VOID FREE. PERMANENTLY FASTEN PLYWOOD BACKBOARD TO WALL BY MEANS OF WALL ANCHORS UTILIZING STAINLESS STEEL HARDWARE WITH A FLAT HEAD BOLT. FINISHED INSTALLATION SHALL BE FLUSH. DRYWALL SCREWS OR ANY OTHER SCREW TYPES SHALL NOT BE ACCEPTABLE, TYP.

2 18" LADDER TRAY MOUNTED @ 7'-6" AFF.

3 HEAVY DUTY, HINGABLE, 18 RU WALL MOUNTED CABINET. PROVIDE VENTILATION FANS.

4 RACK MOUNTED IDENTIFIER. PROVIDE RACK NAMEPLATE ON BLANK FILLER PLATE.

5 1RU FIBER LIU PATCH PANEL. CAPACITY OF ACCOMMODATING UPTO 96 STRANDS OF FIBER.

6 OFOI NETWORKING EQUIPMENT.

7 1RU HORIZONTAL CABLE MANAGER. PROVIDE QUANTITY AS REQUIRED

8 1RU 24 PORT PATCH PANEL DATA. PROVIDE QUANTITY AS REQUIRED PLUS 25% SPARE CAPACITY.

9 1RU 24 PORT PATCH PANEL WIRELESS ACCESS POINTS. PROVIDE QUANTITY AS REQUIRED PLUS 25% SPARE CAPACITY.

10 ROUTE CALL BUTTON BELOW GRADE DIRECTLY BACK TO TR. 116 WITHIN THE NEW SCHOOL. REFER TO "PARTIAL FIRST FLOOR PLAN - TELECOMMUNICATIONS AREA "A" (SCHOOL)".

11 (4) 3" CONDUITS SLEEVED THRU WALL FOR HORIZONTAL CABLING PASSING. PROVIDE GROUNDED INSULATED BUSHINGS ON CONDUIT ENDS.

GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE ALL LADDER TRAY COMPONENTS (WALL ANGLE SUPPORT BRACKETS, BUTT SPLICES, JUNCTION SPLICES, WALL ANGLE SUPPORTS, FLOOR MOUNTING KITS, ETC.) TO PROVIDE A FULLY FUNCTIONAL LADDER TRAY DISTRIBUTION SYSTEM.

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Donald J McCarthy

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Reason: I am the author of this document
Date: 2024.10.09 16:37:37 -04'00'

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FL Authorization No: 30167
FL PE No: 59251
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Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY • SCHOOL DISTRICT •

Seal:

DONALD J. McCARTHY
LICENSE
No. 59251
10/10/24
STATE OF FLORIDA
PROFESSIONAL ENGINEER

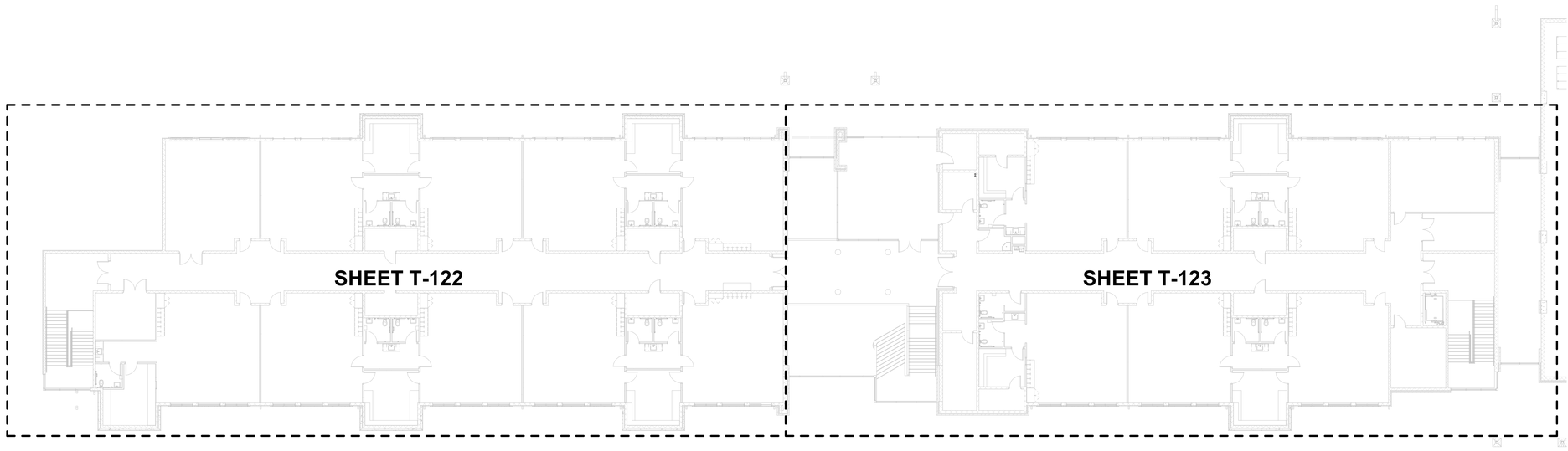
Project No.: 83X98735

Drawing Title:

FLOOR PLAN - TELECOMMUNICATIONS (TEACHERS LOUNGE)

Date: 10 October 2024

Designed By:	JW	Drawing No.:
Drawn By:	JW	T-116
Checked By:	DB	



PLAN NORTH

1 / T-121 OVERALL SECOND FLOOR PLAN - TELECOMMUNICATIONS (SCHOOL)
1/16" = 1'-0"

16' 0' 16' 32'
SCALE: 1/16"=1'-0"

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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
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LICENSE
No. 59251
10/10/24
STATE OF FLORIDA
PROFESSIONAL ENGINEER

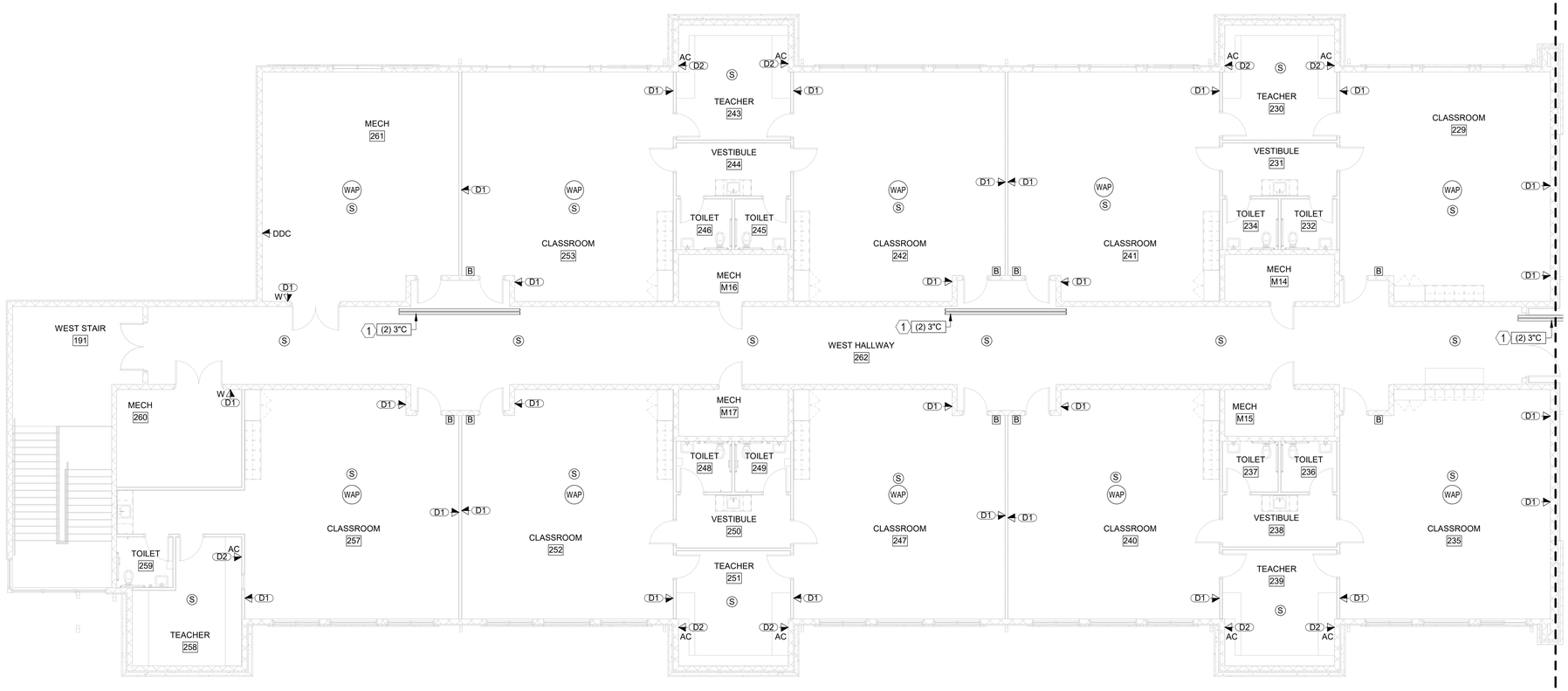
Project No.: 83X98735

Drawing Title:
OVERALL SECOND FLOOR - TELECOMMUNICATIONS (SCHOOL)

Date: 10 October 2024

Designed By: JW
Drawn By: JW
Checked By: DB

Drawing No.: T-121



PLAN NORTH

1 / T-122 SECOND FLOOR PLAN - TELECOMMUNICATIONS AREA "A"

1/8" = 1'-0"

SCALE: 1/8"=1'-0"

SHEET NOTES

1 (2) 3" CONDUITS ROUTED OVER HARD CEILING MOUNTED TIGHT TO STRUCTURE WHILE MAINTAINING ACCESSIBLITY. EXTEND CONDUITS 12" BEYOND THE ACCESSIBLE CEILING.

GENERAL NOTES

1. DATA OUTLET AND WAP's LOCATED ON THIS SHEET SHALL BE ROUTED BACK TO TR. 226.

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FL PE No: 59251
Job Number: 24-007

Revision:

Date:	By:	Description:

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Destin, Florida
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Location: your signing location here
Date: 2024.10.10 12:27:47-06'00'

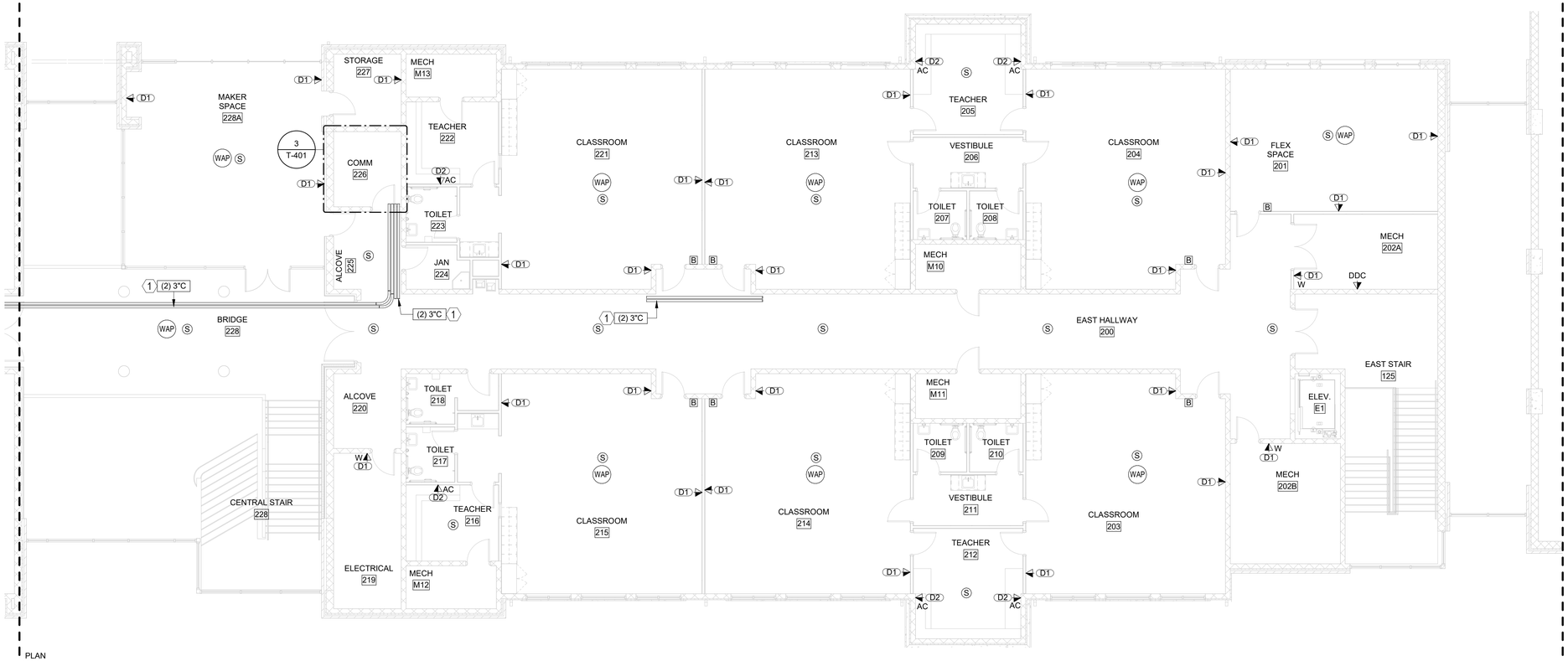
Project No.: 83X98735

Drawing Title:

PARTIAL SECOND FLOOR PLAN - AREA "A" (SCHOOL)

Date: 10 October 2024

Designed By:	JW	*Drawing No.:*
Drawn By:	JW	T-122
Checked By:	DB	



PLAN NORTH

1 / T-123 SECOND FLOOR PLAN - TELECOMMUNICATIONS AREA "B"

1/8" = 1'-0"

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

SHEET NOTES

1 (2) 3" CONDUITS ROUTED OVER HARD CEILING MOUNTED TIGHT TO STRUCTURE WHILE MAINTAINING ACCESSIBLITY. EXTEND CONDUITS 12" BEYOND THE ACCESSIBLE CEILING.

GENERAL NOTES

1. DATA OUTLET AND WAP's LOCATED ON THIS SHEET SHALL BE ROUTED BACK TO TR. 226.

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Revision:

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Seal: DAVID M BAGWELL LICENSE NO. 59251 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/24

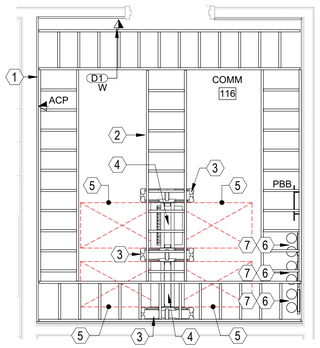
Project No.: 83X98735

Drawing Title:

PARTIAL SECOND FLOOR PLAN - AREA "B" (SCHOOL)

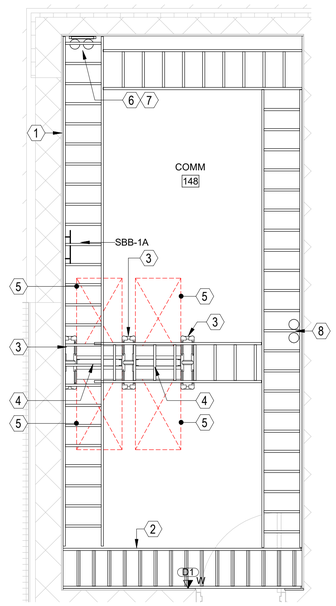
Date: 10 October 2024

Designed By:	JW	Drawing No.:
Drawn By:	JW	T-123
Checked By:	DB	



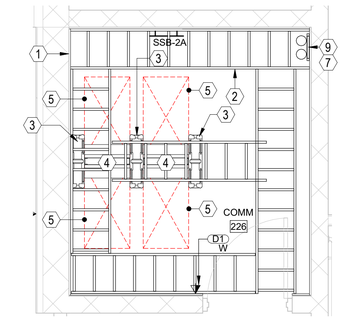
PLAN NORTH

1 T-401 ENLARGED FLOOR PLAN - TR. 116
3/8" = 1'-0"



PLAN NORTH

2 T-401 ENLARGED FLOOR PLAN - TR. 148
3/8" = 1'-0"



PLAN NORTH

3 T-401 ENLARGED FLOOR PLAN - TR. 226
3/8" = 1'-0"

SHEET NOTES

1 PROVIDE 3/4" AC INTERIOR GRADE PAINTED WITH (2) COATS OF GREY FIRE RETARDANT PAINT ON ALL WALLS INCLUDING ABOVE THE DOOR. MOUNT PLYWOOD BACKBOARD 8" AFF TO 8'-8" AFF. PLYWOOD BACKBOARD SHALL BUTTED UP TIGHTLY TO EACH OTHER AND BE VOID FREE. PERMANENTLY FASTEN PLYWOOD BACKBOARD TO WALL BY MEANS OF WALL ANCHORS UTILIZING STAINLESS STEEL HARDWARE WITH A FLAT HEAD BOLT. FINISHED INSTALLATION SHALL BE FLUSH. DRYWALL SCREWS OR ANY OTHER SCREW TYPES SHALL NOT BE ACCEPTABLE, TYP.
2 18" LADDER TRAY MOUNTED @ 7'-6" AFF.
3 6" VERTICAL CABLE MANAGER
4 7'-0" 2 POST RACK.
5 MAINTAIN 36" CLEARANCE.
6 (2) 4" CONDUITS FROM SITE. REFER TO SITE PLAN FOR CONTINUATION.
7 18" LADDER TRAY MOUNTED VERTICALLY ON WALL FROM CONDUIT STUB UP'S TO PERIMETER LADDER TRAY ABOVE.
8 (2) 4" CONDUIT SLEEVES TO THE TELECOMMUNICATIONS ROOM ABOVE.
9 (2) 4" CONDUIT SLEEVES TO THE TELECOMMUNICATIONS ROOM BELOW.

GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE ALL LADDER TRAY COMPONENTS (WALL ANGLE SUPPORT BRACKETS, BUTT SPLICES, JUNCTION SPLICES, WALL ANGLE SUPPORTS, FLOOR MOUNTING KITS, ETC.) TO PROVIDE A FULLY FUNCTIONAL LADDER TRAY DISTRIBUTION SYSTEM.

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Donald J McCarthy

2' 0' 2' 4' 6'
SCALE: 3/8"=1'-0"

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FL PE No: 59251
Job Number: 24-007

Revision:

Date:	By:	Description:

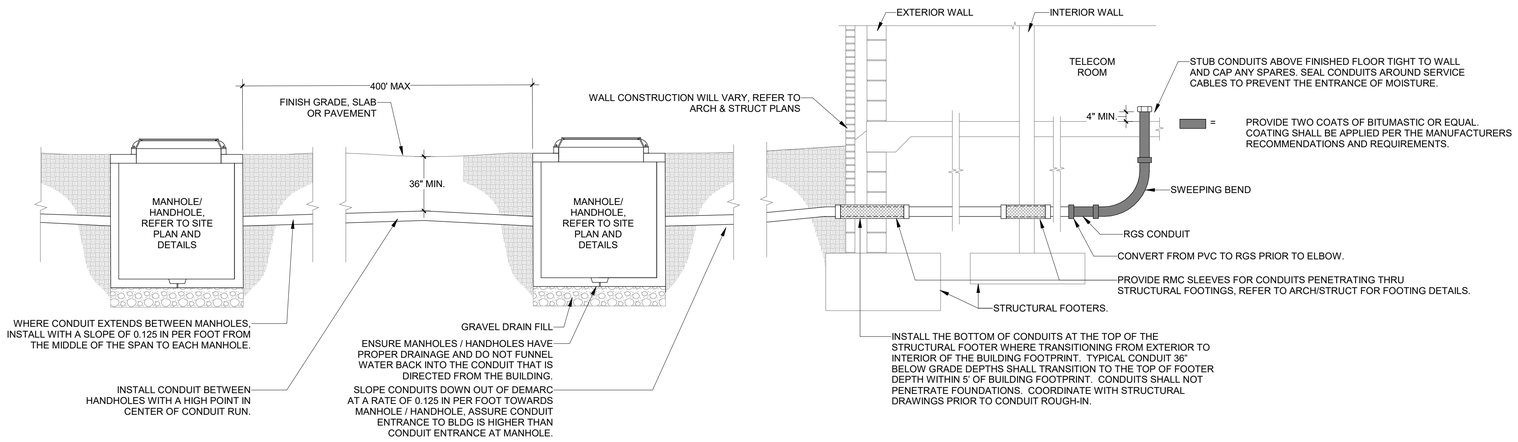
DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

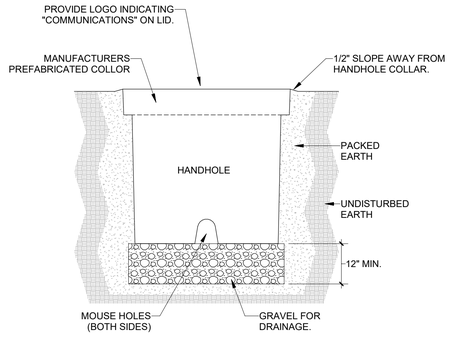
Seal:
DAVID M. BAGWELL
LICENSE
No. 59251
10/10/24
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Project No.: 83X98735
Drawing Title:
ENLARGED PLANS

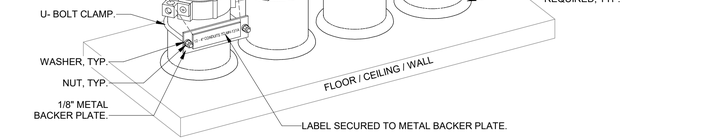
Date: 10 October 2024
Designed By: JW
Drawn By: JW
Checked By: DB
Drawing No.: T-401



1 UNDERGROUND CONDUIT SLOPE PROFILE DETAIL
NOT TO SCALE

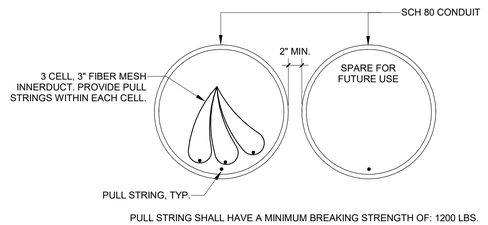


2 HANDHOLE DETAIL
NOT TO SCALE

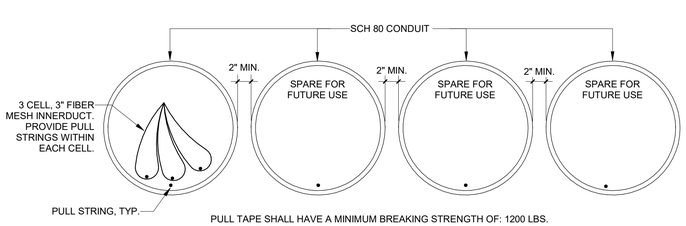


NOTES:
1. THE U-BOLT CLAMP SHALL BE TIGHTEN DOWN TO THE CONDUIT ENOUGH TO HAVE A TIGHT FIT BUT NOT SO TIGHT THAT IT JEOPARDIZES THE INTEGRITY OF THE CONDUIT.
2. EACH GROUP OF CONDUITS THAT SHARE THE SAME CONDUIT SIZE AND DESTINATIONS SHALL HAVE THEIR OWN LABEL. DO NOT PUT MULTIPLE GROUPS OR MULTIPLE SIZE CONDUITS ON THE SAME LABEL. LABELING SHALL START AND BE READ FROM LEFT TO RIGHT.
3. LABEL SHALL BE ORIENTATED BASE ON THE CONDUIT PENETRATION. LABELS SHALL MAINTAIN THE LEFT TO RIGHT ORIENTATION.
4. ENGRAVED PLASTIC TAG WITH 1/4" BLACK LETTERS ON WHITE BACKGROUND. TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH STAINLESS STEEL SCREWS OR POP RIVETS. ADHESIVE BACKING, TAPE, ETC IS NOT ALLOWED.

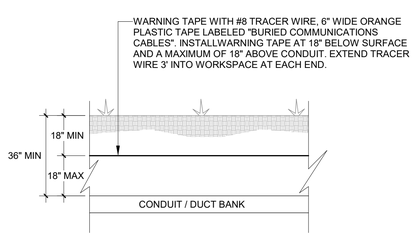
5 CONDUIT LABELING DETAIL
NOT TO SCALE



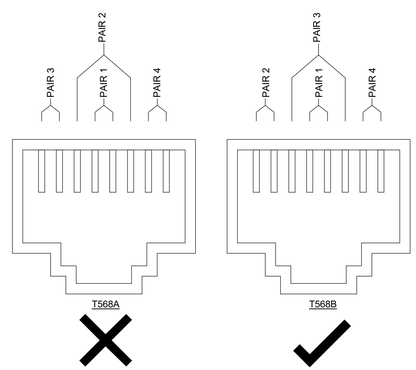
3 INTER-BUILDING SECTION DETAIL - (2) 4" CONDUITS
NOT TO SCALE



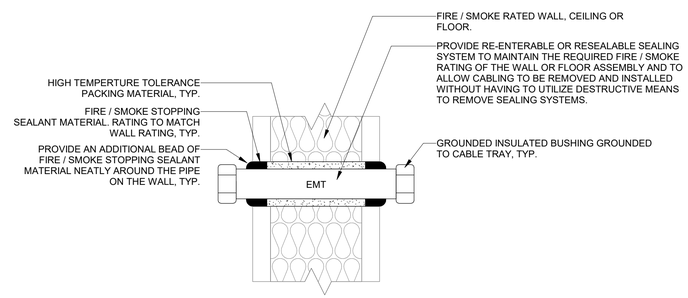
4 INTER-BUILDING SECTION DETAIL - (4) 3" CONDUITS
NOT TO SCALE



6 BURIED CONDUIT DETAIL
NOT TO SCALE



7 WIRING TERMINATION STYLE DETAIL
NOT TO SCALE



NOTE:
1. REFER TO ARCHITECTURAL FOR FIRE / SMOKE / RATED WALLS AND FLOORS.
2. PROVIDE (2) 4" CONDUIT SLEEVES AT EACH PENETRATION.
3. ALL FIRE STOPS SHALL ADHERE TO NATIONAL CODES, LOCAL CODES AND/OR AHJ.
4. ASSEMBLY SHALL MAINTAIN TO SAME RATING AS THE WALL. COORDINATE WITH ARCHITECTURAL.
5. THIS ASSEMBLY DETAIL IS NOT TO JUST BE USE FOR SLEEVES BUT ALSO USED FOR CONTINOUS CONDUIT RUNS THRU FIRE, SMOKE AND RATED WALLS OR FLOORS.

8 FIRE / SMOKE RATED PENETRATION DETAIL
NOT TO SCALE

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OKALOOSA COUNTY SCHOOL DISTRICT

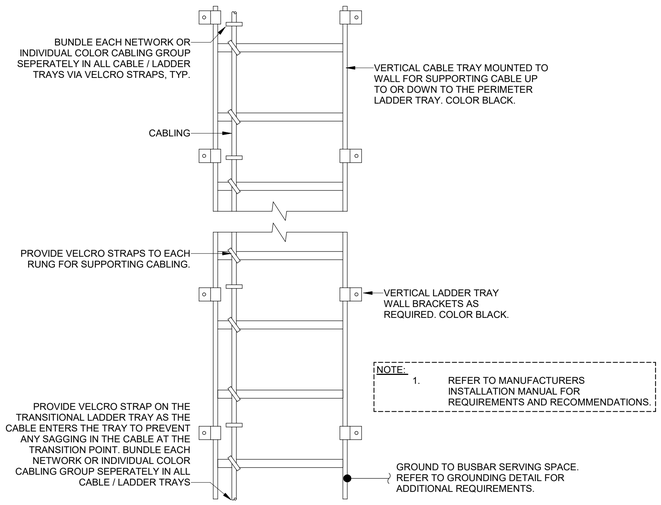
Seal:
DAVID M BAGWELL
No. 59251
10/10/24
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Project No.: 83X98735

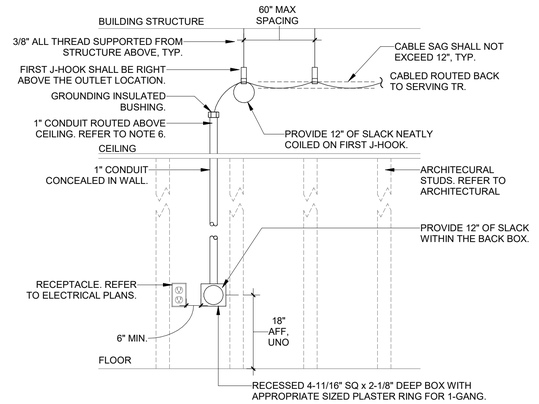
Drawing Title:
DETAILS

Date: 10 October 2024

Designed By:	JW	Drawing No.:
Drawn By:	JW	T-501
Checked By:	DB	

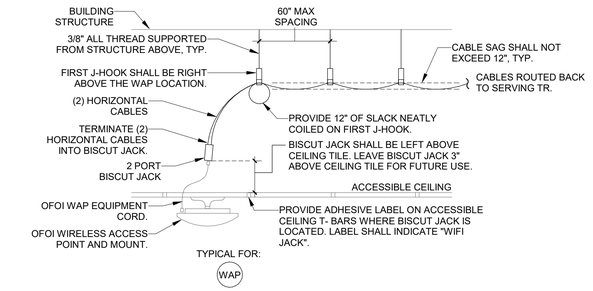


1 VERTICAL LADDER TRAY / CABLE TRAY SUPPORTING DETAIL
NOT TO SCALE



NOTE:
1. COORDINATE FINAL LOCATION WITH OTHER DISCIPLINES AND OWNER PRIOR TO ROUGH-IN.
2. MOUNTING HEIGHTS MAY VARY. REFER TO FLOORPLANS.
3. PROVIDE PULL STRINGS WITHIN CONDUITS.
4. THERE SHOULD BE A RECEPTACLE NEXT TO EVERY DATA OUTLET LOCATION.
5. J-HOOKS SHALL BE MOUNTED TO WHERE THERE IS A MINIMUM OF 6" ABOVE THE CEILING TILES.
6. IF THE OUTLET IS LOCATED WITHIN A ROOM WITH A HARD CEILING THE CONDUIT WILL BE ROUTED TO THE NEAREST COORIDOR WITH AN ACCESSIBLE 2' X 2' CEILING.
7. OUTLETS LOCATED WITHIN UTILITY SHALL HAVE THE CONDUIT ROUTED IN THE DIRECTION OF THE SERVING TR TO THE NEAREST ACCESSIBLE CEILING.

2 DATA OUTLET MOUNTING DETAIL - TYPICAL
NOT TO SCALE



NOTE:
1. COORDINATE FINAL LOCATION WITH OWNER AND OTHER DISCIPLINES PRIOR TO ROUGH-IN.
2. PROVIDE PULL STRINGS WITHIN CONDUITS.
3. J-HOOKS SHALL BE MOUNTED TO WHERE THERE IS A MINIMUM OF 6" ABOVE THE CEILING TILES.

3 WIRELESS ACCESS POINT DETAIL - ACCESSIBLE CEILING
NOT TO SCALE

NOTE:
1. COORDINATE FINAL LOCATION WITH OWNER AND OTHER DISCIPLINES PRIOR TO ROUGH-IN.
2. PROVIDE PULL STRINGS WITHIN CONDUITS.
3. J-HOOKS SHALL BE MOUNTED TO WHERE THERE IS A MINIMUM OF 6" ABOVE THE CEILING TILES.

4 WIRELESS ACCESS POINT DETAIL - HARD CEILING
NOT TO SCALE

FACEPLATE NOTE NOTES:
1. FACEPLATES SHOWN HERE ARE GENERALIZED. CONTRACTOR SHALL REFER TO EACH OUTLET LOCATION ON THE FLOOR PLANS FOR REQUIRED QUANTITY OF JACKS AT EACH OUTLET LOCATION.
2. OUTLETS SHALL BE NUMBERED WITHIN ROOM, STARTING WITH THE FIRST OUTLET TO THE LEFT WHEN YOU WALK INTO THE ROOM AND CONTINUE FROM LEFT TO RIGHT THROUGHT THE ROOM. NUMBERS SHALL STAY IN NUMERIC ORDER STARTING WITH #1.

5 FACEPLATE DETAIL
NOT TO SCALE

6 WALL PHONE FACEPLATE DETAIL
NOT TO SCALE

TOP VIEW

FRONT VIEW

KEYNOTES

1. COMMUNICATIONS SURFACE MOUNT OUTLET BOX. (HUBBELL:
   NON-PLENUM: HSB2W
   PLENUM: HSB2WP)
2. SNAP-IN COUPLER WITH 8-PIN, RJ-45 MODULAR JACK; COLOR INDICATED. QUATITY AS REQUIRED.
3. BUILDING MANAGEMENT SUPPORT SYSTEM OUTLET IDENTIFIER ON LASER PRINTED INSERT UNDER FACTORY PLASTIC COVER. REPLACE THE "XXX" WITH THE OUTLET TAG LISTED BELOW UNDER THE TYPICAL SYMBOLS. EXAMPLE IF THE OUTLET IS FOR THE LIGHTING CONTROL PANEL USE "LCP".
4. PROVIDE SNAP-IN BLANK COUPLER; COLOR TO MATCH SURFACE BOX COLOR.
5. INCOMING HORIZONTRAL CABLE FROM SERVING TELECOMMUNICATIONS EQUIPMENT.

TYPICAL SYMBOL:
ACP ELEV
DP FACP and WAP
DDC LCP

7 TELECOM BISCUIT JACK DETAIL
NOT TO SCALE

8 PATCH PANEL / WIRE LABELING DETAIL
NOT TO SCALE

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Seal:

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LICENSED
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PROFESSIONAL ENGINEER

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Date: 2024.10.07 14:07:24 -05'00'

Project No.: 83X98735

Drawing Title:

DETAILS

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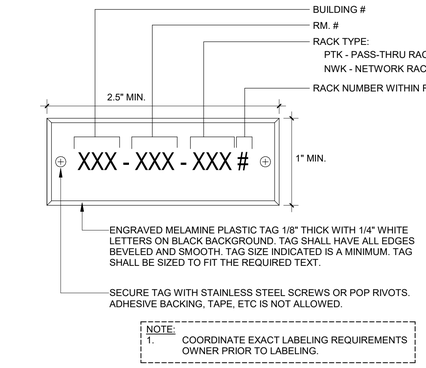
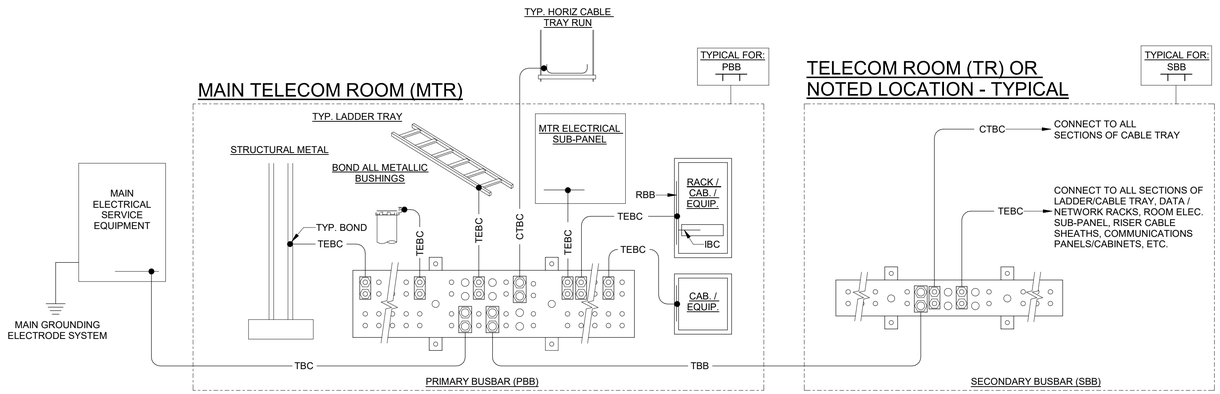
Date: 10 October 2024

Designed By: JW
Drawn By: JW
Checked By: DB

Drawing No.: T-502



1 RACK INDENTIFICATION LABEL DETAIL
NOT TO SCALE



TELECOM GROUNDING NOTES:

1. PROVIDE TELECOMMUNICATIONS COPPER GROUNDING BUSBARS SUITABLE FOR INDOOR INSTALLATION IN ACCORDANCE WITH TIA-607. BUSBARS MUST BE MADE OF COPPER, OR COPPER ALLOYS HAVING A MINIMUM OF 95% CONDUCTIVITY WHEN ANNEALED AS SPECIFIED BY THE INTERNATIONAL ANNEALED COPPER STANDARD (IACS) AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
2. ALL BUSBARS MUST BE PRE-DRILLED PROVIDED WITH HOLES FOR USE WITH STANDARD SIZED LUGS; BUSBARS MUST BE CLEANED, WITH AN ANTI-OXIDANT APPLIED PRIOR TO FASTENING CONNECTORS.
3. FROM PBB BUSBAR LOCATION, RUN CONDUCTOR TO BUILDING SERVICE GROUND IN EMT CONDUIT. FROM SBB BUSBAR LOCATION, RUN CONDUCTOR TO PBB BUSBAR LOCATION IN EMT CONDUIT.
4. ALL BONDING CONDUCTORS SHALL HAVE A GREEN JACKET. WHERE BARE CONDUCTORS ARE SPECIFIED, THEY SHALL BE SUPPORTED BY STANDOFF INSULATORS AT INTERVALS NO GREATER THAN 2 FT OR BE CONTAINED IN ELECTRICAL NONMETALLIC TUBING (ENT). BARE BONDING CONDUCTORS SHALL NOT BE IN CONTACT WITH METALLIC SURFACES OR OTHER CONDUCTORS THAT ARE NOT PART OF THE TELECOMMUNICATIONS BONDING SYSTEM.
5. BOND EACH CONDUIT AND CONDUIT SUPPORT STRUTS IN ALL MTR, TRs, AND DESIGNATED SPACES WITH 6 AWG BONDING CONDUCTOR. METALLIC CABLE SHIELD(S), METAL PATHWAY FOR CABLE (E.G., CONDUIT), OR WATER PIPING SYSTEMS ARE NOT TO BE USED AS A TBB.
6. PRIMARY BUSBAR - PBB (AKA TMGB): HAVE DIMENSIONS OF 6.35 MM (0.25 IN) THICK X 100 MM (4 IN) WIDE AND SIZED IN ACCORDANCE WITH THE IMMEDIATE APPLICATION REQUIREMENTS AND WITH CONSIDERATION OF FUTURE GROWTH.
7. BONDS TO THE PBB: WHEN THE OUTSIDE PLANT CABLES IN THE TELECOMMUNICATIONS ENTRANCE ROOM OR SPACE INCORPORATE A CABLE SHIELD ISOLATION GAP, THE CABLE SHIELD ON THE BUILDING SIDE OF THE GAP SHALL BE BONDED TO THE PBB. ALL METALLIC PATHWAYS FOR TELECOMMUNICATIONS CABLING LOCATED WITHIN THE SAME ROOM OR SPACE AS THE PBB SHALL BE BONDED TO THE PBB. HOWEVER FOR METALLIC PATHWAYS CONTAINING BONDING CONDUCTORS WHERE THE PATHWAY IS BONDED TO THE BONDING CONDUCTOR, NO ADDITIONAL BOND TO THE PBB IS REQUIRED.
8. CONNECTIONS TO THE PBB: THE CONNECTIONS OF THE TBC AND THE TELECOMMUNICATIONS BONDING BACKBONE (TBB) TO THE PBB SHALL UTILIZE EXOTHERMIC WELDING, LISTED COMPRESSION TWO-HOLE LUGS, OR LISTED EXOTHERMIC TWO-HOLE LUGS. THE CONNECTION OF CONDUCTORS FOR BONDING TELECOMMUNICATIONS EQUIPMENT AND TELECOMMUNICATIONS PATHWAYS TO THE PBB SHALL UTILIZE EXOTHERMIC WELDING, LISTED COMPRESSION TWO-HOLE LUGS, OR LISTED EXOTHERMIC TWO-HOLE LUGS.
9. SECONDARY BUSBAR - SBB (AKA TGB): HAVE DIMENSIONS OF 6.35 MM (0.25 IN) THICK X 50 MM (2 IN) WIDE AND SIZED IN ACCORDANCE WITH THE IMMEDIATE APPLICATION REQUIREMENTS AND WITH CONSIDERATION OF FUTURE GROWTH.
10. BONDS TO THE SBB: THE TBBS AND OTHER SBBS WITHIN THE SAME SPACE SHALL BE BONDED TO THE SBB WITH A CONDUCTOR THE SAME SIZE AS THE TBB. IN ALL CASES, MULTIPLE SBBS WITHIN A ROOM SHALL BE BONDED TOGETHER WITH A CONDUCTOR THE SAME SIZE AS THE TBB.
11. CONNECTIONS TO THE SBB: THE CONNECTION OF THE TBB TO THE SBB SHALL UTILIZE EXOTHERMIC WELDING, LISTED COMPRESSION TWO-HOLE LUGS, OR LISTED EXOTHERMIC TWO-HOLE LUGS. THE CONNECTION OF CONDUCTORS FOR BONDING TELECOMMUNICATIONS EQUIPMENT AND TELECOMMUNICATIONS PATHWAYS TO THE SBB SHALL UTILIZE EXOTHERMIC WELDING, LISTED COMPRESSION TWO-HOLE LUGS, OR LISTED EXOTHERMIC TWO-HOLE LUGS.
12. RACK BONDING BUSBAR (RBB): SHALL HAVE A MINIMUM CROSS-SECTIONAL AREA EQUAL TO A 6 AWG WIRE, AND BE LISTED. EQUIPMENT CONTAINING METALLIC PARTS AND PATCH PANELS FOR SHIELDED CABLING IN CABINETS AND RACKS SHALL BE BONDED TO THE TELECOMMUNICATIONS BONDING SYSTEM IN ACCORDANCE WITH THE MANUFACTURER INSTRUCTIONS. WHERE INSTRUCTIONS ARE NOT GIVEN, ALL BONDING CONDUCTORS THAT CONNECT THESE INSTALLED PRODUCTS SHALL BE A MINIMUM SIZED CONDUCTOR OF 12 AWG. BOND ALL RACKS WITH 4 AWG CONDUCTOR; ROUTE CONDUCTOR ALONG RACK REAR AND IN CABLE RUNWAY TO GROUNDING BUSBAR.
13. CABLE TRAY / METALLIC PATHWAYS: ALL METALLIC TELECOMMUNICATIONS PATHWAYS SHALL BE BONDED TO THE PBB OR SBB. ADDITIONALLY, CABLE TRAY SECTIONS SHALL BE BONDED TOGETHER, AND TO THE PBB OR SBB. BOND TRAYS TOGETHER BY CONNECTOR PLATES OF AN IDENTICAL TYPE AS THE CABLE TRAY SECTIONS. PROVIDE NO. 2 AWG BARE COPPER WIRE THROUGHOUT CABLE TRAY SYSTEM, AND BOND TO EACH SECTION, EXCEPT USE NO. 1/0 ALUMINUM WIRE IF CABLE TRAY IS ALUMINUM. TERMINATE CABLE TRAYS 10 INCHES FROM BOTH SIDES OF SMOKE AND FIRE PARTITIONS. INSTALL CONDUCTORS RUN THROUGH SMOKE AND FIRE PARTITIONS IN 103 MM 4 INCH RIGID STEEL CONDUITS WITH GROUNDING BUSHINGS, EXTENDING 305 MM 12 INCHES BEYOND EACH SIDE OF PARTITIONS. SEAL CONDUIT ON BOTH ENDS TO MAINTAIN SMOKE AND FIRE RATINGS OF PARTITIONS.
14. BUILDING STRUCTURAL METAL: WHERE STRUCTURAL METAL IS ACCESSIBLE AND IN THE SAME ROOM AS THE PBB/SBB, THE PBB/SBB SHALL BE BONDED TO STRUCTURAL METAL USING A MINIMUM SIZED CONDUCTOR OF 6 AWG.
15. RUN CONDUCTOR FROM BUSBAR LOCATION TO BUILDING SERVICE GROUND IN EMT CONDUIT. PROVIDE INSULATED GROUNDING BUSHING - AT CONDUIT ENDS AND GROUND PER NEC. GROUNDING TO BUILDING STRUCTURE, CONDUITS, UTILITY PIPING, OR ELECTRICAL SUBPANELS IN LIEU OF BONDING TO BUILDING MAIN ELECTRICAL SERVICE GROUND IS NOT ACCEPTABLE.
16. GROUNDING TAGS SHALL BE LABELED PER 607-D, 7.9 & 606-D, 5.1.16.

2 GROUNDING / BONDING - PBB AND SBB
NOT TO SCALE

TELECOM GROUNDING LEGEND:

CTBC	CABLE TRAY BONDING CONDUCTOR
IBC	INDIVIDUAL BONDING CONDUCTOR
MTR	MAIN TELECOMMUNICATIONS ROOM
PBB	PRIMARY BONDING BUSBAR
SBB	SECONDARY BONDING BUSBAR
RBB	RACK BUSBAR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TEBC	TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR
TBC	TELECOMMUNICATIONS BONDING CONDUCTOR
TR	TELECOMMUNICATIONS ROOM

BONDING CONDUCTOR SIZING CRITERIA

TBC LINEAR LENGTH (FEET)	TBC CONDUCTOR SIZE (AWG)
LESS THAN 13	6
14 - 20	4
21 - 26	3
27 - 33	2
34 - 41	1
42 - 52	1/0
53 - 66	2/0
67 - 84	3/0
85 - 105	4/0
106 - 125	250 kcmil
126 - 150	300 kcmil
151 - 175	350 kcmil
176 - 250	500 kcmil
251 - 300	600 kcmil
GREATER THAN 301	750 kcmil
INFO BASED ON ANSI/TIA-607-C	

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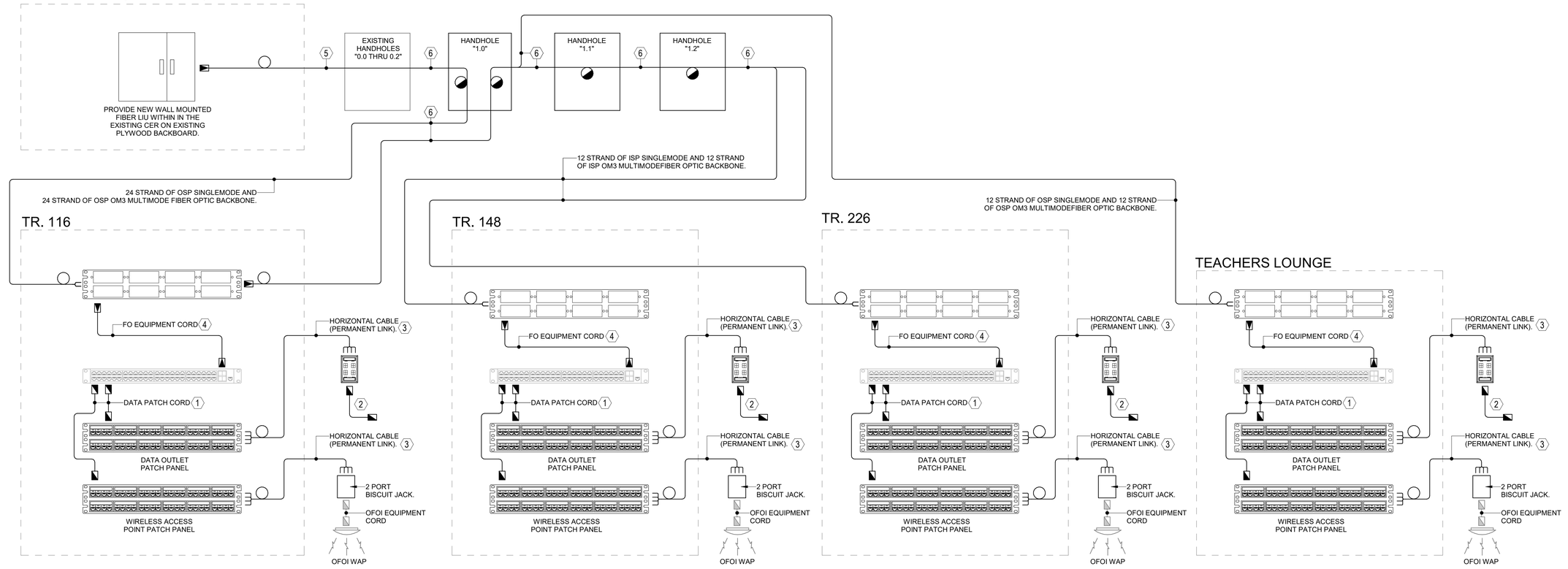
Okaloosa County, Florida

Seal:
DAVID M. BAGWELL LICENSED PROFESSIONAL ENGINEER No. 59251 10/10/24 STATE OF FLORIDA

Project No.: 83X98735

Drawing Title:
DETAILS

Date: 10 October 2024
Designed By: JW
Drawn By: JW
Checked By: DB
Drawing No.: T-503



1 RISER DIAGRAM - TELECOMMUNICATIONS
NOT TO SCALE

RISER DIAGRAM COMPONENTS LEGEND

- RACK MOUNTED FIBER LIU. PROVIDE 36" OF SLACK WITHIN THE ENCLOSURE WITH THE OUTER SHEATHING REMOVED. PROVIDE QUANTITY OF FIBER ADATPER PANELS WITH "LC" CONNECTORS AND PIGTAILS AS REQUIRED. REFER TO RACK ELEVATIONS FOR ADDITIONAL REQUIREMENTS.
- OFOI NETWORKING EQUIPMENT.
- HORIZONTAL PATCH PANEL FOR (PERMANENT LINK) CABLING. PROVIDE QUANTITY AS REQUIRED. REFER TO RACK ELEVATIONS FOR ADDITIONAL REQUIREMENTS.
- RJ45 CONNECTOR
- FIBER CONNECTOR WITH DUPLEX "LC" STYLE CONNECTORS.
- COPPER HARD TERMINATION.
- FIBER OPTIC HARD TERMINATION.
- CONTINUATION SYMBOL.
- 10' OF SLACK NEATLY COILED WITHIN TR LADDER TRAY.
- 25' OF SLACK NEATLY COILED NEATLY COILED WITHIN HANDHOLE / MANHOLE.
- WORKSTATION OUTLET.
- OFOI WIRELESS ACCESS POINT.
- KEY NOTE.

RISER DIAGRAM LINETYPE LEGEND

- NEW WORK / PROVIDED BY JACOBS/TITAN AND NOT INCLUDED IN GENERAL CONTRACTOR'S SCOPE.
- BUILDING / ROOM OUTLINE

SHEET NOTES

1. COPPER PATCH CORD; 24 AWG 4-PAIR PRE-MANUFACTURED, FACTORY TERMINATED AND TESTED. PROVIDE QUANTITY AS REQUIRED, PLUS 25% SPARE. PATCH CORD TYPE TO MATCH SERVING DEVICES.
2. 24 AWG 4-PAIR WORKSTATON EQUIPMENT CORD, PLENUM RATED PER NFPA. PROVIDE (1) CABLE PER JACK, UNO. REFER TO HORIZONTAL CABLING MATRIX FOR CABLE TYPE, COLOR, SHIELDING AND CONNTECTOR TYPE.
3. 24 AWG 4-PAIR HORIZONTAL COPPER CABLE, PLENUM RATED PER NFPA. PROVIDE (1) CABLE PER JACK.
4. FIBER OPTIC PATCH CORD; DUAL STRAND, DIELECTRIC, PRE-MANUFACTURED, FACTORY TERMINATED AND TESTED. PROVIDE QUANTITY AS REQUIRED, PLUS 25% SPARE. PATCH CORD TYPE TO MATCH SERVING DEVICES.
5. ROUTE CABLING WITHIN EXISTING PATHWAYS.
6. ROUTE CABLING WITHIN NEW PATHWAYS.

HORIZONTAL CABLE MATRIX

			CABLE INFORMATION					
NETWORK	DESIGNATION	LOCATION	MANUFACTURER	COLOR	TYPE	SHIELDING	CONNECTOR	NOTES
SCHOOL NETWORK	D#	GENERAL	MOHAWK	BLUE	CAT 6	UTP	RJ45	-
		WAP	MOHAWK	WHITE	CAT 6	UTP	RJ45	-

GENERAL NOTES

1. ALL EXTERIOR CABLES ENTERING THE BUILDING SHALL HAVE A WATER BLOCKING MATERIAL TO THE CABLE.
2. ALL EXTERIOR CABLES ENTERING THE BUILDING SHALL BE CONNECTED TO A SURGE PROTECTION DEVICE IN THE TR MOUNTED IN A NEMA 1 ENCLOSURE.
3. RISER DIAGRAMS ARE FOR DIAGRAMATIC PURPOSES ONLY AND DOES NOT REFLEX ACTUAL DATA OUTLET OUTLET COUNTS. CONTRACTOR SHALL REFER TO FLOORPLANS TO GET ACTUAL COUNTS.
4. THE CONTRACTOR SHALL CONFIRM **ALL** CABLING REQUIREMENTS (INCLUDING CABLE TYPES, JACK/JACKET COLORS, AND ANY SPECIAL REQUIREMENTS WITH OWNERS TECHNICAL REPRESENTATIVE PRIOR TO ORDERING CABLE.
5. NO HORIZONTAL CATEGORY COPPER CABLE (PERMENANT LINK) SHALL EXCEED 295' IN LENGTH **INCLUDING** SLACK. HORIZONTAL CABLING SHALL BE ROUTED WITHIN THE HORIZONTAL PATHWAY DISTRIBUTION SYSTEM (CABLE TRAY, CONDUIT PATHWAYS OR J-HOOKS). IF THE PERMENANT LINK EXCEEDS THE 295' IN LENGTH AT TESTING IT SHALL BE RE-ROUTED UTILIZING THE HORIZONTAL PATHWAY DISTRIBUTION SYSTEM OR RE-ROUTE THE HORIZONTAL PATHWAY DISTRIBUTION SYSTEM (CABLE TRAY, CONDUIT PATHWAYS OR J-HOOKS) AT THE CONTRACTORS EXPENSE.
6. ALL MODULAR JACKS FOR HORIZONTAL COPPER PATCH PANELS SHALL BE THE SAME COLOR AS THE HORIZONTAL CABLE. REFER TO "HORIZONTAL CABLE MATRIX" FOR ADDITIONAL REQUIREMENTS.
7. ALL PATCH CORDS (FIBER OR COPPER) ARE TO BE HANDED OVER TO THE OWNERS TECHNICAL REPRESENTATIVE FOR THEIR USE. INSTALLATION OF PATCH CORD TO THE EQUIPMENT WILL BE BY THE OWNER AND NOT THE RESPONSIBILITY OF THE CONTRACTOR.
8. ALL FIBER PATCH PANELS SHALL BE PROVIDED WITH THE FOLLOWING:
   - HINGED, SWING DOWN FRONT DOOR
   - SLIDE OUT TILT DOWN DRAWER
   - INTEGRAL CABLE MANAGEMENT
   - BEND RADIUS CONTROL
   - TIA-606-A COMPATIABLE LABELING

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FL Authorization No: 30167
FL PE No: 59251
Job Number: 24-007

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

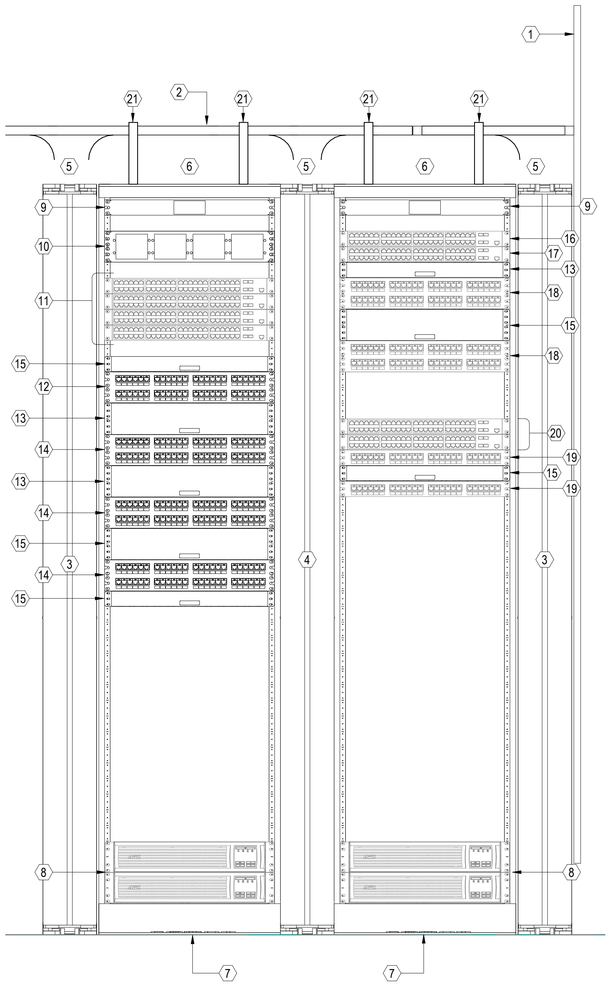
Seal: DAVID M BAGWELL LICENSE NO. 59251 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/24

Project No.: 83X98735

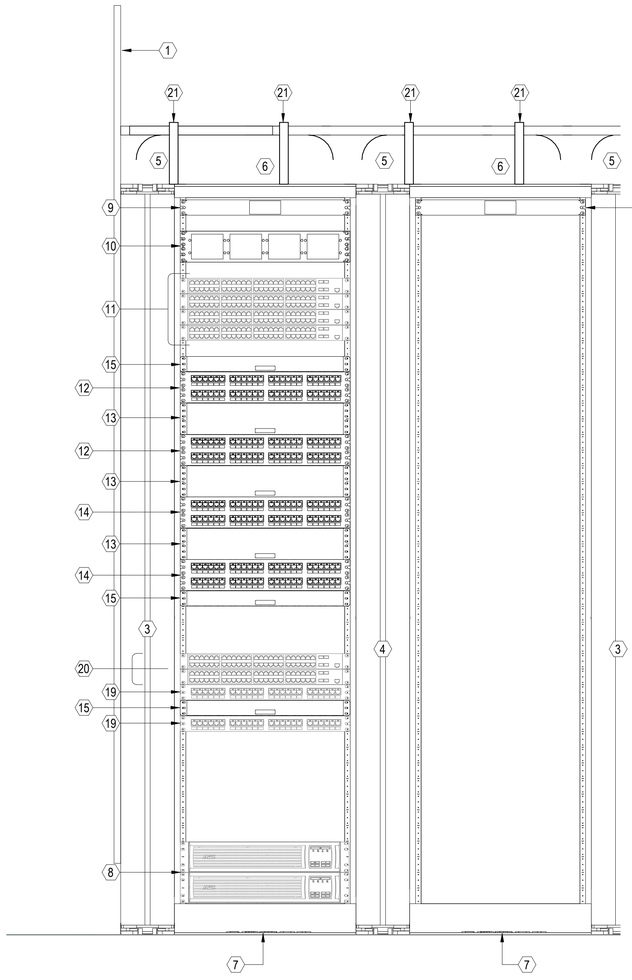
Drawing Title:
RISER DIAGRAM

Date: 10 October 2024

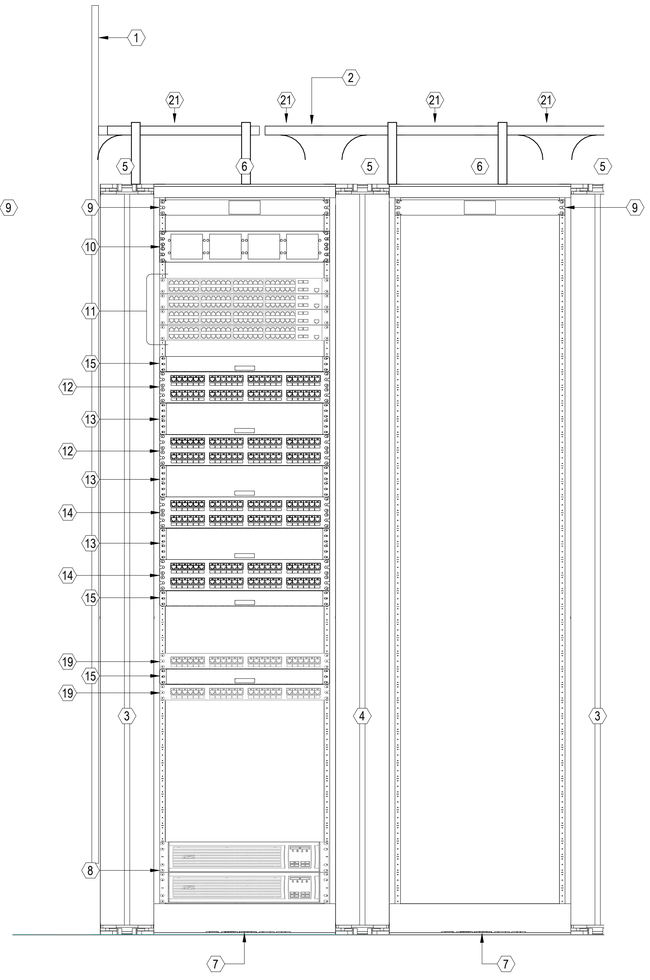
Designed By:	JW	*Drawing No.:*
Drawn By:	JW	T-601
Checked By:	DB	



1 T-701 RACK ELEVATION - TR. 116
NOT TO SCALE



2 T-701 RACK ELEVATION - TR. 148
NOT TO SCALE



3 T-701 RACK ELEVATION - TR. 226
NOT TO SCALE

SHEET NOTES

1. PROVIDE 3/4" AC INTERIOR GRADE PAINTED WITH (2) COATS OF GREY FIRE RETARDANT PAINT ON ALL WALLS INCLUDING ABOVE THE DOOR. MOUNT PLYWOOD BACKBOARD 8" AFF TO 8'-8" AFF. PLYWOOD BACKBOARD SHALL BUTTED UP TIGHTLY TO EACH OTHER AND BE VOID FREE. PERMANENTLY FASTEN PLYWOOD BACKBOARD TO WALL BY MEANS OF WALL ANCHORS UTILIZING STAINLESS STEEL HARDWARE WITH A FLAT HEAD BOLT. FINISHED INSTALLATION SHALL BE FLUSH. DRYWALL SCREWS OR ANY OTHER SCREW TYPES SHALL NOT BE ACCEPTABLE, TYP.
2. 18" LADDER TRAY MOUNTED @ 7'-6" AFF.
3. 4" VERTICAL CABLE MANAGER
4. 6" VERTICAL CABLE MANAGER
5. PROVIDE WATER FALL KITS INTO VERTICAL CABLE MANAGERS.
6. 7'-0" 2 POST RACK.
7. PROVIDE TELECOMMUNICATIONS GROUND ANCHOR MOUNTING KIT.
8. 4RU SPACE RESERVED FOR OFOI RACK MOUNTED UPS.
9. RACK MOUNTED IDENTIFIER. PROVIDE RACK NAMEPLATE ON BLANK FILLER PLATE.
10. 2RU FIBER LIU PATCH PANEL. CAPACITY OF ACCOMMODATING UPTO 144 STRANDS OF FIBER.
11. OFOI NETWORKING EQUIPMENT.
12. 2RU 48 PORT PATCH PANEL WIRELESS ACCESS POINTS. PROVIDE QUANTITY AS REQUIRED PLUS 25% SPARE CAPACITY.
13. 2RU HORIZONTAL CABLE MANAGER. PROVIDE QUANTITY AS REQUIRED
14. 2RU 48 PORT PATCH PANEL DATA. PROVIDE QUANTITY AS REQUIRED PLUS 25% SPARE CAPACITY.
15. 1RU HORIZONTAL CABLE MANAGER. PROVIDE QUANTITY AS REQUIRED
16. CCTV NVR HEAD END EQUIPMENT.
17. CCTV POE NETWORK SWITCH.
18. 2RU 48 PORT PATCH PANEL CCTV CAMERAS. PROVIDE QUANTITY AS REQUIRED PLUS 25% SPARE CAPACITY.
19. SPACE RESERVED FOR 1RU PATCH PANEL FOR THE INTERCOM SYSTEM. PROVIDED BY OTHERS.
20. SPACE RESERVED FOR 2RU INTERCOM TERMINAL EQUIPMENT. PROVIDED BY OTHERS.
21. PROVIDE REQUIRED ELEVATION KIT.

GENERAL NOTES

1. ALL CABINETS AND EQUIPMENT SHALL BE LABELED PER TIA-606.

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FL PE No: 59251
Job Number: 24-007

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M BAGWELL
LICENSED
No. 59251
10/10/24
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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Donald J McCarthy

Project No.: 83X98735

Drawing Title:

RACK ELEVATIONS

Date: 10 October 2024

Designed By:	JW	Drawing No.:
Drawn By:	JW	T-701
Checked By:	DB	

SECURITY LEGEND

CCTV EQUIPMENT:

INTERIOR:

##" ROUGH-IN FOR WALL MOUNTED DOME CAMERA. MOUNT AT 96" (UNO) FROM FINISHED FLOOR TO BOTTOM OF CAMERA LENS. PROVIDE A 4-11/16" x 4-11/16" x 2-1/8" BACKBOX WITH A 1" ROUTED TO ABOVE ACCESSIBLE CEILING. PROVIDE PULL STRING WITHIN CONDUIT. REFER TO DETAIL AND RISER DIAGRAMS FOR ADDITIONAL REQUIREMENTS. SUBSCRIPT INDICATES THE FOLLOWING:

##" = MOUNTING HEIGHT

OR OR OR ##" ROUGH-IN FOR CEILING MOUNTED DOME CAMERA. CAMERA SHALL BE EQUIPPED WITH DAY/NIGHT, COLOR/BLACK AND WHITE AND HAVE INFRARED (IR). MOUNTED IN THE CENTER OF CEILING TILE. PROVIDE A 4-11/16" x 4-11/16" x 2-1/8" BACKBOX WITH A 1" ROUTED TO ABOVE ACCESSIBLE CEILING. PROVIDE PULL STRING WITHIN CONDUIT. REFER TO DETAIL AND RISER DIAGRAMS FOR ADDITIONAL REQUIREMENTS.

EXTERIOR:
(PROVIDE A SURGE SUPRESSION DEVICE (BY VENDOR) WITHIN A NEMA 1 ENCLOSURE (BY CONTRACTOR) MOUNTED ABOVE ACCESSIBLE CEILING WITHIN 36" FROM ENTERING THE BUILDING ON ALL EXTERIOR MOUNTED CAMERAS. IF THE AREA IS NOT ACCESSIBLE AT THE CAMERA LOCATION MOUNT THE NEMA 1 ENCLOSURE ABOVE THE NEAREST ACCESSIBLE CEILING:

##" ROUGH-IN FOR WALL MOUNTED DOME CAMERA. MOUNT AT 96" (UNO) FROM FINISHED GRADE TO BOTTOM OF CAMERA LENS. PROVIDE A 4-11/16" x 4-11/16" x 2-1/8" BACKBOX WITH A 1" ROUTED TO ABOVE ACCESSIBLE CEILING. PROVIDE PULL STRING WITHIN CONDUIT. REFER TO DETAIL AND RISER DIAGRAMS FOR ADDITIONAL REQUIREMENTS. SUBSCRIPT INDICATES THE FOLLOWING:

##" = MOUNTING HEIGHT

OR OR OR OR ##" ROUGH-IN FOR STRUCTURE MOUNTED DOME CAMERA. MOUNTED TO THE STRUCTURE ABOVE. PROVIDE A 4-11/16" x 4-11/16" x 2-1/8" BACKBOX WITH A 1" ROUTED TO ABOVE ACCESSIBLE CEILING. PROVIDE PULL STRING WITHIN CONDUIT.

ACCESS CONTROL EQUIPMENT:

GENERAL:

ACP ROUGH-IN FOR ACCESS CONTROL PANEL. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.

ROUGH-IN FOR SECURITY DEVICES. PROVIDE 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH 1" CONDUIT ROUTED UP WALL TO ABOVE CEILING AND TERMINATED INTO ACS PULL BOX. PROVIDE GROUNDED INSULATED BUSHING AND PULL STRING. COORDINATE EXACT LOCATION WITH OWNER AND OWNERS TECHNICAL REPRESENTATIVE PRIOR TO ROUGHIN.

HARDWARE:

C ROUGH-IN FOR CARD READER. PROVIDE A 4-11/16" x 4-11/16" x 2-1/8" BACKBOX WITH THE APPROPRIATE SIZE MUD RING MOUNTED 48" AFF TO THE WITH A 1" CONDUIT STUBBED UP TO ABOVE CEILING. REFER TO DETAILS AND RISER DIAGRAMS FOR ADDITIONAL REQUIREMENTS.

GENERAL NOTES

1. ALL PENETRATIONS THRU FIRE RATED WALLS, CEILINGS, FLOORS, PARTITIONS, ETC SHALL BE FIRE STOPPED TO THE LATEST CODES, STANDARDS AND THE AUTHORITY HAVING JURISDICTION. COORDINATE WITH ARCHITECTURAL.
2. FOR CABLES PENETRATING FIRE/SMOKE RATED WALLS PROVIDE CONDUIT SLEEVES IN ACCORDANCE WITH NOTE #1.
3. ALL EXTERIOR PENETRATIONS SHALL BE SEALED IN A NEAT/CLEAN MANNER AND SHALL HAVE A WATER TIGHT SEAL.
4. ALL CONDUITS SHALL BE PROVIDED WITH PULL STRING REGARDLESS IF CABLE IS INSTALLED OR NOT.
5. FINAL LOCATION OF **ALL DEVICES** SHALL BE COORDINATED WITH OWNER/USER PRIOR TO ROUGH-IN.
6. ALL CONDUIT ENDS SHALL BE FREE OF BURRS,SHARP EDGES AND PROVIDED WITH INSULATED GROUNDING BUSHINGS AND GROUNDED BACK TO THE TELECOMMUNICATINS GROUNDING BUSBAR SERVING THE SPACE.
7. ALL CONDUITS AND/OR BACK BOXES THAT ARE EXPOSED TO THE EXTERIOR OF THE BUILDING SHALL BE CAPPED/COVERED TO PREVENT ANY INTRUSION OF PEST AND WATER UNTIL THE FINAL EQUIPMENT OR VENDOR IS READY FOR INSTALL.
8. ALL NON-CONTINUOUS PATHWAYS (J-HOOKS) SHALL REMAIN ACCESSIBLE AFTER ALL DISCIPLINES ARE FINISHED. COORDINATE PLACEMENT CLOSELY WITH OTHER DISCIPLINES DURING INSTALLATION.
9. ANY DEVICE THAT IS NOT LOCATED WITHIN AN ACCESSIBLE CEILING SHALL HAVE A CONTINOUS PATHWAY (CONDUIT) ROUTED TO THE NEAREST ACCESSIBLE CEILING AND STUBBED OUT WITH A GROUNDING INSULATED BUSHING ABOVE THE ACCESSIBLE CEILING.

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
ACP	ACCESS CONTROL PANEL
ADA	AMERICANS WITH DISABILITIES ACT
AIA	AMERICAN INSTITUTE OF ARCHITECTS
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
ARCH	ARCHITECTURAL
AHJ	AUTHORITY HAVING JURISDICTION
BMS	BALANCED MAGNETIC SWITCH
CR	CARD READER
CRK	CARD READER W/KEY PAD
CAT 3	CATEGORY 3
CAT 5E	CATEGORY 5 ENHANCED
CAT 6	CATEGORY 6
CAT 6A	CATEGORY 6 AUGMENTED
CATV	COMMUNITY ANTENNA TELEVISION
C	CONDUIT
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFGI	CONTRACTOR FURNISHED, GOVERNMENT INSTALLED
DS	DOOR SWITCH
ELEC	ELECTRICAL
ESS	ELECTRONIC SECURITY SYSTEM
EMI	ELECTROMAGNETIC INTERFERENCE
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
FCC	FEDERAL COMMUNICATIONS COMMISSION
FO	FIBER OPTIC
GFCI	GOVERNMENT FURNISHED, CONTRACTOR INSTALLED
GFGI	GOVERNMENT FURNISHED, GOVERNMENT INSTALLED
HSS	HIGH SECURITY SWITCH
IDP	INTRUSION DETECTION PANEL
IDS	INTRUSION DETECTION SYSTEM
KP	KEY PAD
MAX	MAXIMUM
MIN	MINIMUM
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEC	NATIONAL ELECTRICAL CODE
NESC	NATIONAL ELECTRICAL SAFETY CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
PR	PROXIMITY READER
PP	PATCH PANEL
PVC	POLYVINYL CHLORIDE
PB	PULL BOX
REX	REQUEST TO EXIT
RM	ROOM
R/I	ROUGH-IN
ScTP	SCREENED TWISTED-PAIR
STP	SHIELDED TWISTED-PAIR
SM	SINGLEMODE
SF	SURFACE MOUNT
UL	UNDERWRITERS LABORATORIES INC

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FL PE No: 59251
Job Number: 24-007

Revision:

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3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M. BAGWELL LICENSE No. 59251 10/10/24 STATE OF FLORIDA PROFESSIONAL ENGINEER

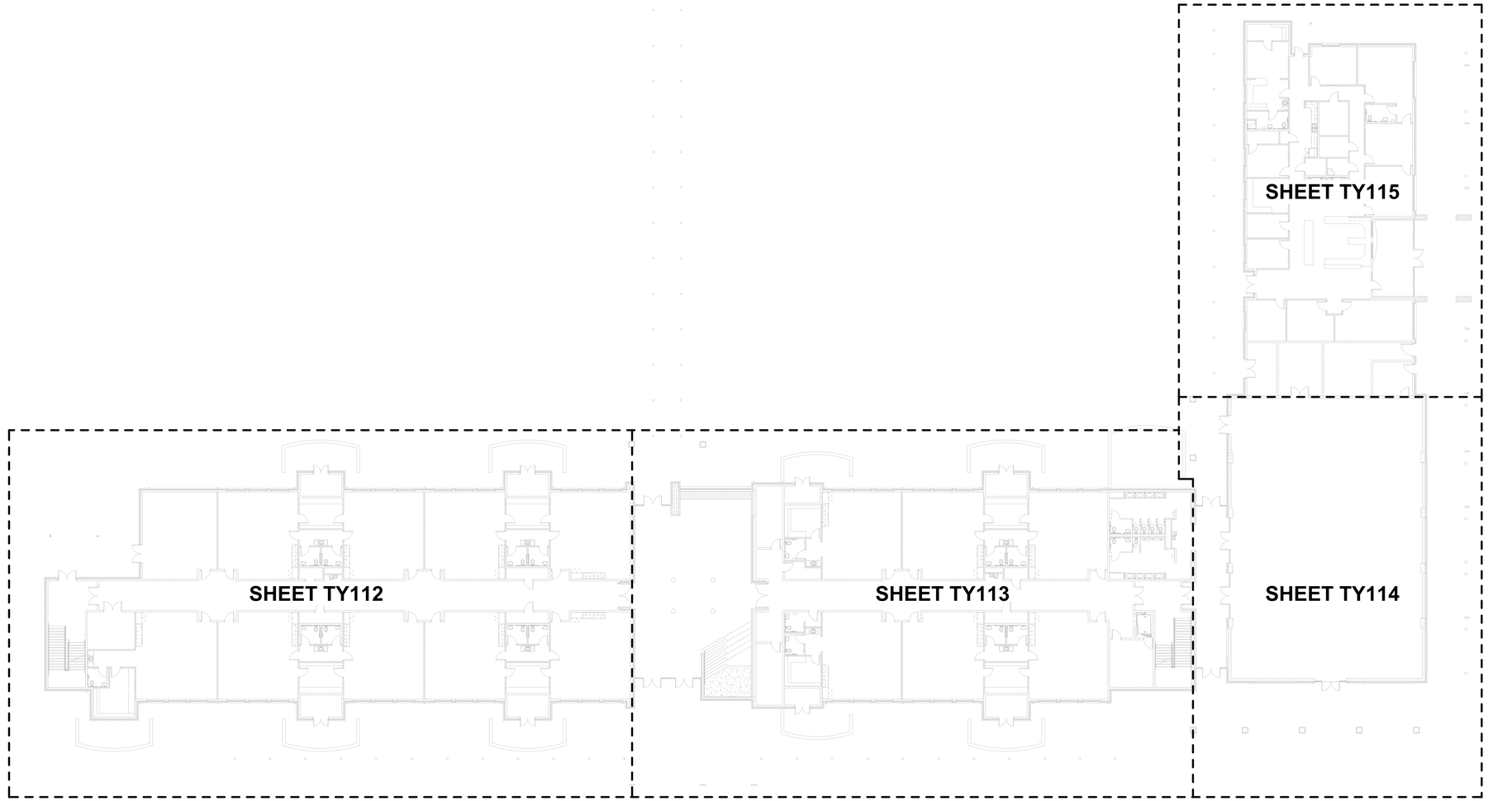
Project No.: 83X98735

Drawing Title:

LEGEND

Date: 10 October 2024

Designed By:	JW	*Drawing No.:*	
Drawn By:	JW	TY001	
Checked By:	DB		



PLAN NORTH

1 TY111 OVERALL FIRST FLOOR PLAN - SECURITY

1" = 20'-0"

20' 0' 20' 40'

SCALE: 1"=20'-0"

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Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M. BAGWELL LICENSE NO. 59251 10/10/24 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:

OVERALL FIRST FLOOR - SECURITY (SCHOOL)

Date: 10 October 2024

Designed By:	JW	Drawing No.:
Drawn By:	JW	TY111
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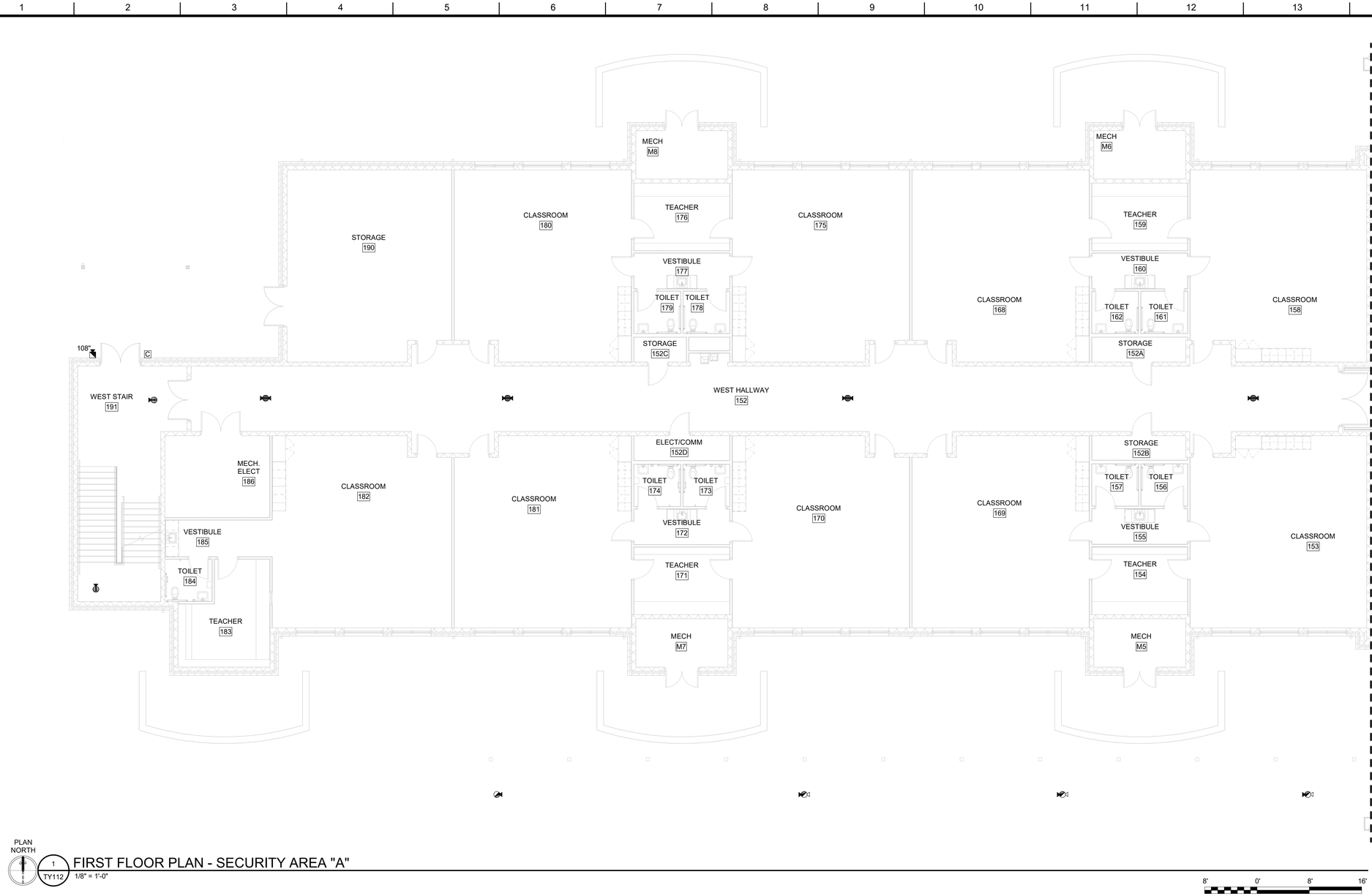

PLAN NORTH

1 / TY112 FIRST FLOOR PLAN - SECURITY AREA "A"

1/8" = 1'-0"

8" 0' 8" 16'

SCALE: 1/8"=1'-0"

GENERAL NOTES

1. EXACT CAMERA LOCATION SHALL BE COORDINATED WITH OWNER PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL WORK CLOSELY WITH OWNER TO ENSURE THAT ALL DESIRED POINTS ARE BE COVERED BY CCTV CAMERA.
3. CCTV CAMERAS LOCATED ON THIS SHEET SHALL BE ROUTED BACK TO TR. 116.

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10/10/24
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:

PARTIAL FIRST FLOOR PLAN - SECURITY AREA "A" (SCHOOL)

Date: 10 October 2024

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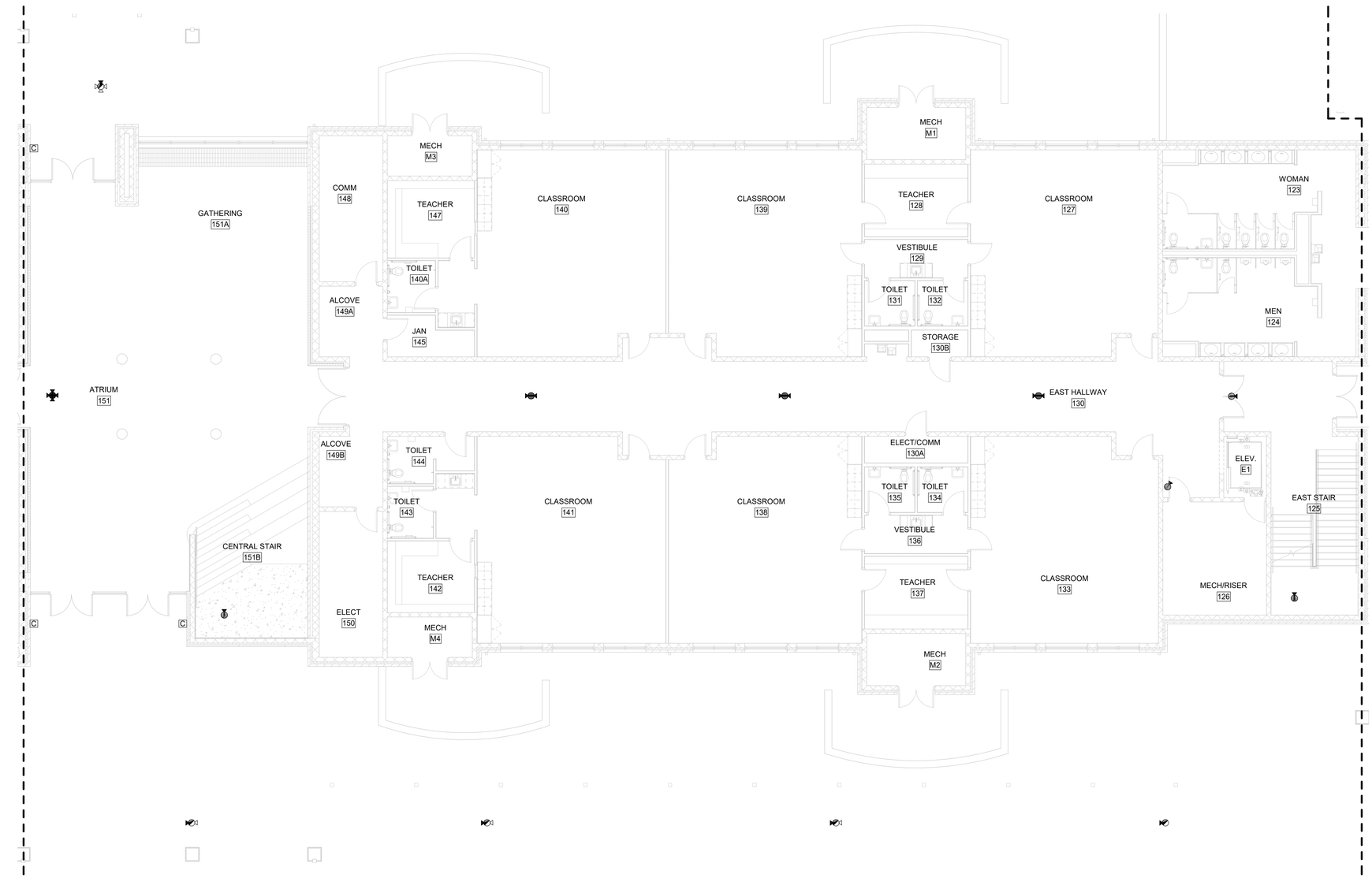

PLAN NORTH

1 / TY113 FIRST FLOOR PLAN - SECURITY AREA "B"

1/8" = 1'-0"

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

GENERAL NOTES

1. EXACT CAMERA LOCATION SHALL BE COORDINATED WITH OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL WORK CLOSELY WITH OWNER TO ENSURE THAT ALL DESIRED POINTS ARE BE COVERED BY CCTV CAMERA.
3. CCTV CAMERAS LOCATED ON THIS SHEET SHALL BE ROUTED BACK TO TR. 116.

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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M BAGWELL LICENSE NO. 59251 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/10/24

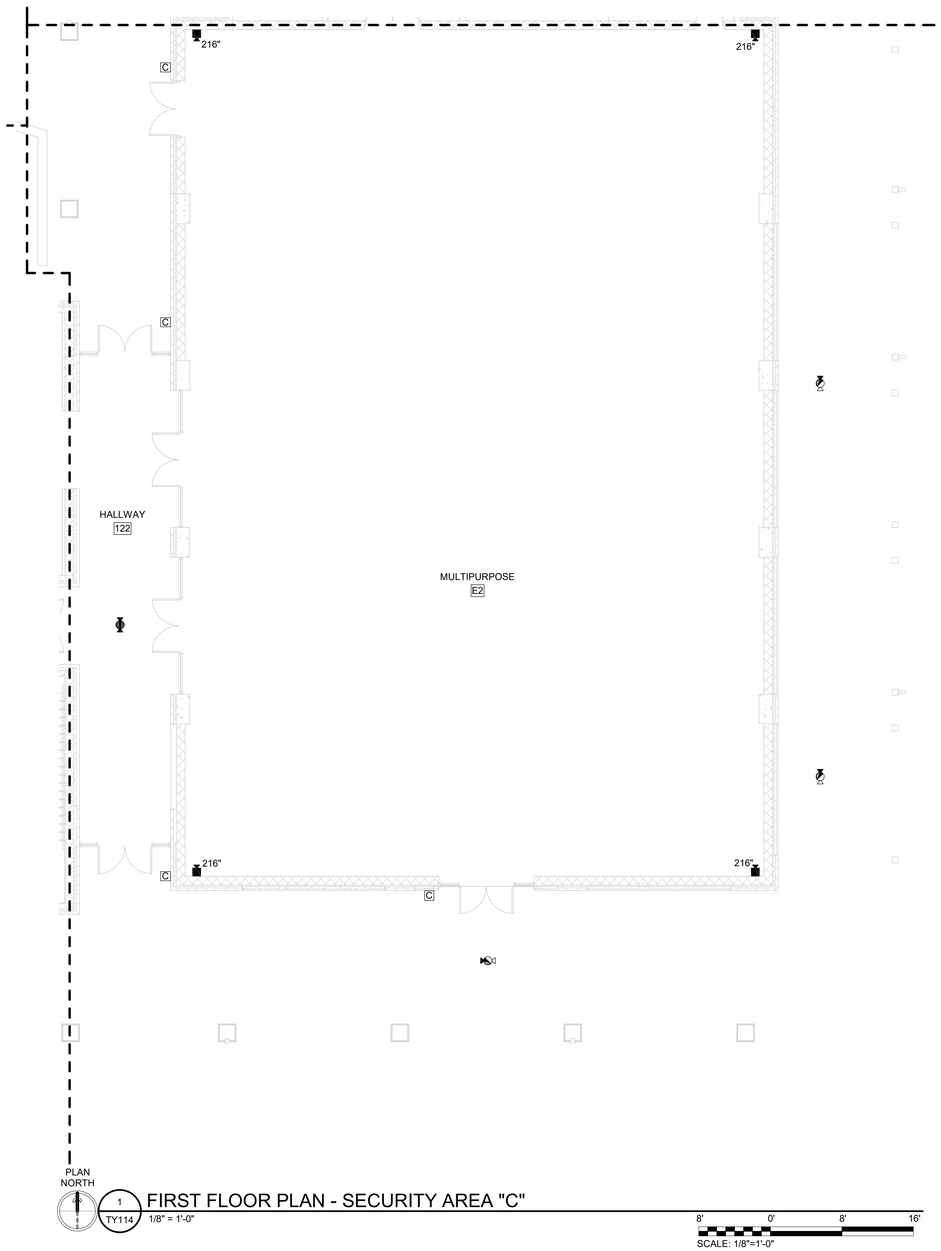
Project No.: 83X98735

Drawing Title:

PARTIAL FIRST FLOOR PLAN - SECURITY AREA "B" (SCHOOL)

Date: 10 October 2024

Designed By:	JW	Drawing No.:
Drawn By:	JW	TY113
Checked By:	DB	



PLAN NORTH

1 / TY114 FIRST FLOOR PLAN - SECURITY AREA "C"

1/8" = 1'-0"

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

GENERAL NOTES

1. EXACT CAMERA LOCATION SHALL BE COORDINATED WITH OWNER PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL WORK CLOSELY WITH OWNER TO ENSURE THAT ALL DESIRED POINTS ARE BE COVERED BY CCTV CAMERA.
3. CCTV CAMERAS LOCATED ON THIS SHEET SHALL BE ROUTED BACK TO TR. 116.

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Project No.: 83X98735

Drawing Title:

PARTIAL FIRST FLOOR PLAN - SECURITY AREA "C" (SCHOOL).

Date: 10 October 2024

Designed By:	JW	Drawing No.:
Drawn By:	JW	TY114
Checked By:	DB	



SHEET NOTES

1 ROUGH-IN FOR DOOR RELEASE. COORDINATE EXACT LOCATION WITH OWNER AND OWNERS TECHNICAL REPRESENTATIVE (UNO), PRIOT TO ROUGH-IN.

2 ROUGH-IN FOR PANIC BUTTON. COORDINATE EXACT LOCATION WITH OWNER AND OWNERS TECHNICAL REPRESENTATIVE (UNO), PRIOT TO ROUGH-IN.

GENERAL NOTES

1. EXACT CAMERA LOCATION SHALL BE COORDINATED WITH OWNER PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL WORK CLOSELY WITH OWNER TO ENSURE THAT ALL DESIRED POINTS ARE BE COVERED BY CCTV CAMERA.
3. CCTV CAMERAS LOCATED ON THIS SHEET SHALL BE ROUTED BACK TO TR. 116.

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FL PE No: 59251
Job Number: 24-007

Revision:

Date:	By:	Description:

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3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M BAGWELL
FLORIDA
No. 59251
10/10/24
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

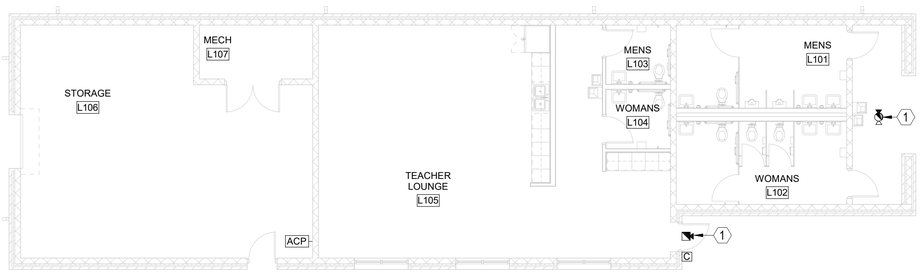
Project No.: 83X98735

Drawing Title:

PARTIAL FIRST FLOOR PLAN - SECURITY AREA "D" (SCHOOL)

Date: 10 October 2024

Designed By:	JW	*Drawing No.:*
Drawn By:	JW	TY115
Checked By:	DB	



PLAN NORTH

1 FIRST FLOOR PLAN - SECUIRTY (TEACHERS LOUNGE)
1/8" = 1'-0"

8' 0' 8' 16'
SCALE: 1/8"=1'-0"

SHEET NOTES

1 ROUTE CONDUIT SERVING CAMERA BELOW GRADE DIRECTLY BACK TO TR. 116 WITHIN THE NEW SCHOOL. REFER TO "PARTIAL FIRST FLOOR PLAN - TELECOMMUNICATIONS AREA "A" (SCHOOL)".

GENERAL NOTES

1. EXACT CAMERA LOCATION SHALL BE COORDINATED WITH OWNER PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL WORK CLOSELY WITH OWNER TO ENSURE THAT ALL DESIRED POINTS ARE BE COVERED BY CCTV CAMERA.

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FL PE No: 59251
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Revision:

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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M. BAGWELL
LICENSE
No. 59251
STATE OF FLORIDA
PROFESSIONAL ENGINEER
10/10/24

Project No.: 83X98735

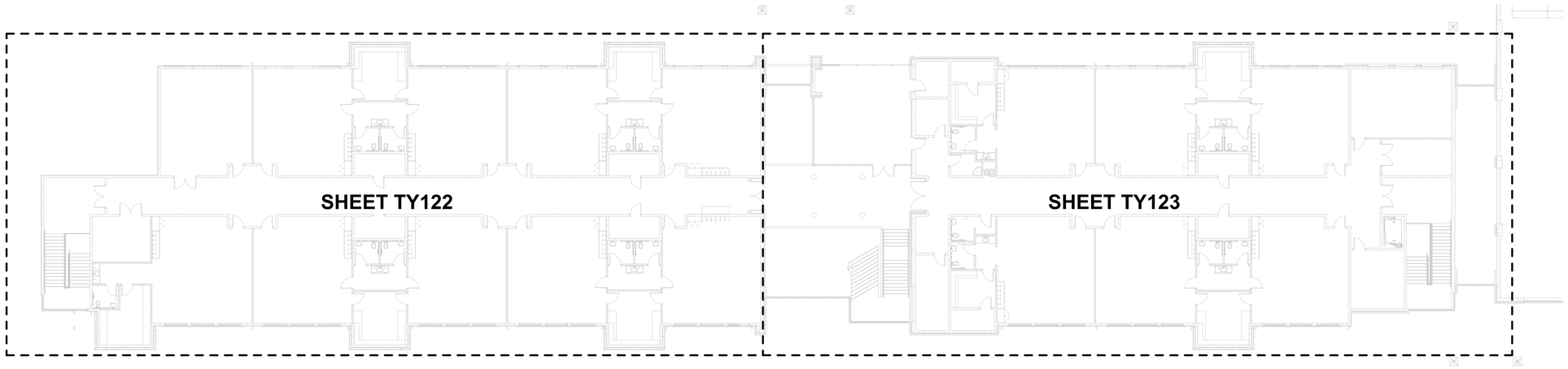
Drawing Title:

FLOOR PLAN - SECURITY (TEACHERS LOUNGE)

Date: 10 October 2024

Designed By: JW
Drawn By: JW
Checked By: DB

Drawing No.: TY116



PLAN NORTH

1 / TY121 OVERALL SECOND FLOOR PLAN - SECURITY

1/16" = 1'-0"

20' 0' 20' 40'

SCALE: 1"=20'-0"

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Seal:

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Project No.: 83X98735

Drawing Title:

OVERALL SECOND FLOOR - SECURITY (SCHOOL)

Date: 10 October 2024

Designed By:	JW	Drawing No.:
Drawn By:	JW	TY121
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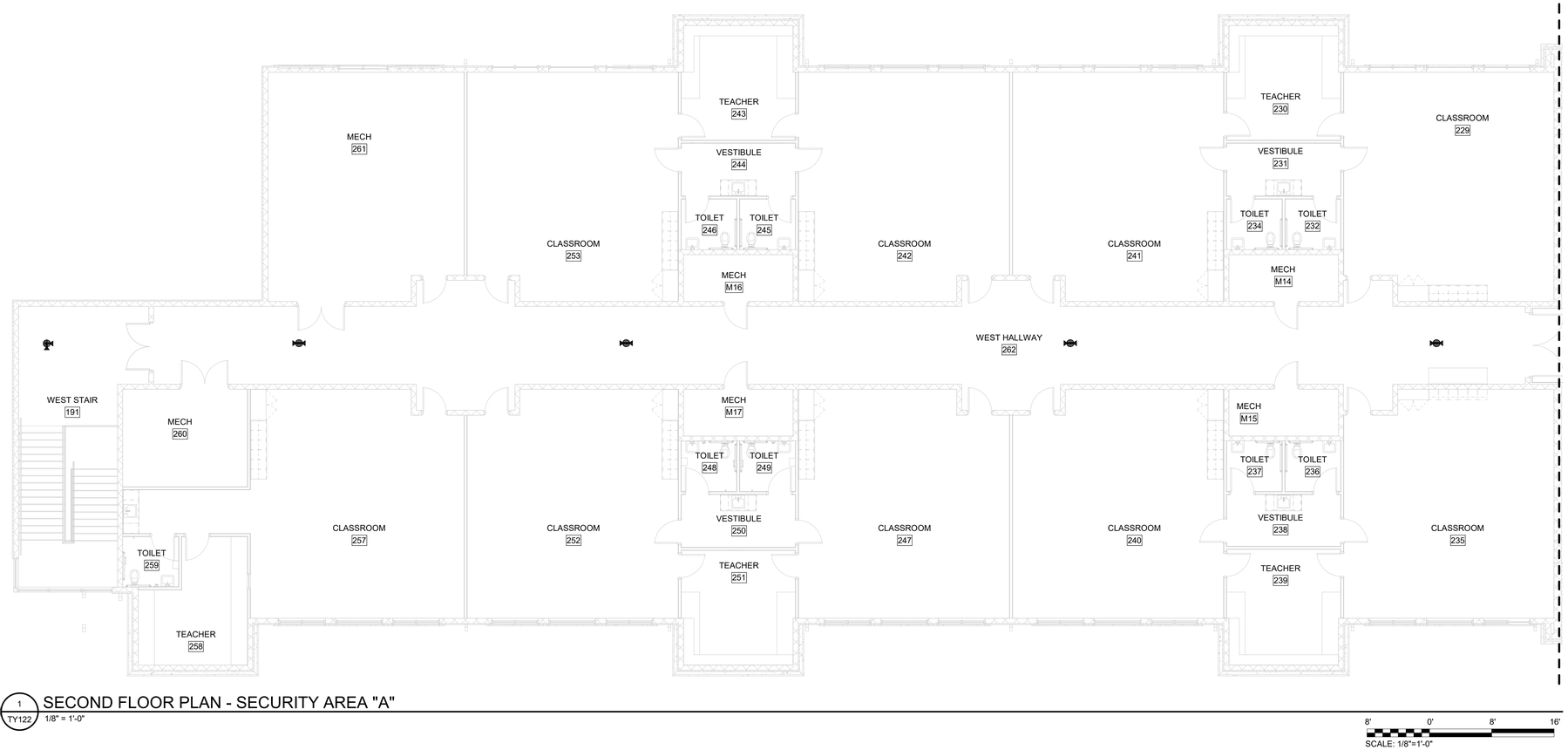

PLAN NORTH

1 / TY122 SECOND FLOOR PLAN - SECURITY AREA "A"

1/8" = 1'-0"

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

GENERAL NOTES

1. EXACT CAMERA LOCATION SHALL BE COORDINATED WITH OWNER PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL WORK CLOSELY WITH OWNER TO ENSURE THAT ALL DESIRED POINTS ARE BE COVERED BY CCTV CAMERA.
3. CCTV CAMERAS LOCATED ON THIS SHEET SHALL BE ROUTED BACK TO TR. 116.

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Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal: DAVID M. BAGWELL LICENSE NO. 59251 10/10/24 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:

PARTIAL SECOND FLOOR PLAN - SECURITY AREA "A" (SCHOOL)

Date: 10 October 2024

Designed By:	JW	Drawing No.:
Drawn By:	JW	TY122
Checked By:	DB	



1 TY123 SECOND FLOOR PLAN - SECURITY AREA "B"

1/8" = 1'-0"

8' 0' 8' 16'

SCALE: 1/8"=1'-0"

GENERAL NOTES

1. EXACT CAMERA LOCATION SHALL BE COORDINATED WITH OWNER PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL WORK CLOSELY WITH OWNER TO ENSURE THAT ALL DESIRED POINTS ARE BE COVERED BY CCTV CAMERA.
3. CCTV CAMERAS LOCATED ON THIS SHEET SHALL BE ROUTED BACK TO TR. 116.

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FL PE No: 59251
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Revision:

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Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

DAVID M. BAGWELL LICENSED No. 59251 10/10/24 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:

PARTIAL SECOND FLOOR PLAN - SECURITY AREA "B" (SCHOOL)

Date: 10 October 2024

Designed By:	JW	Drawing No.:
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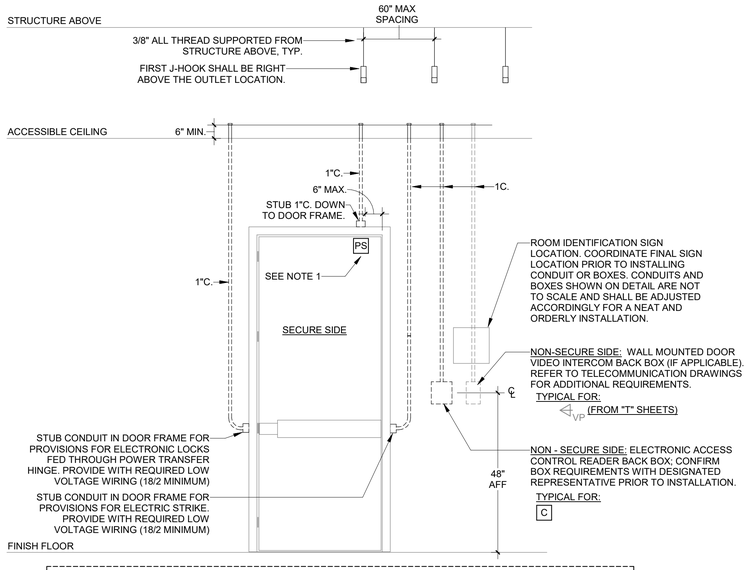
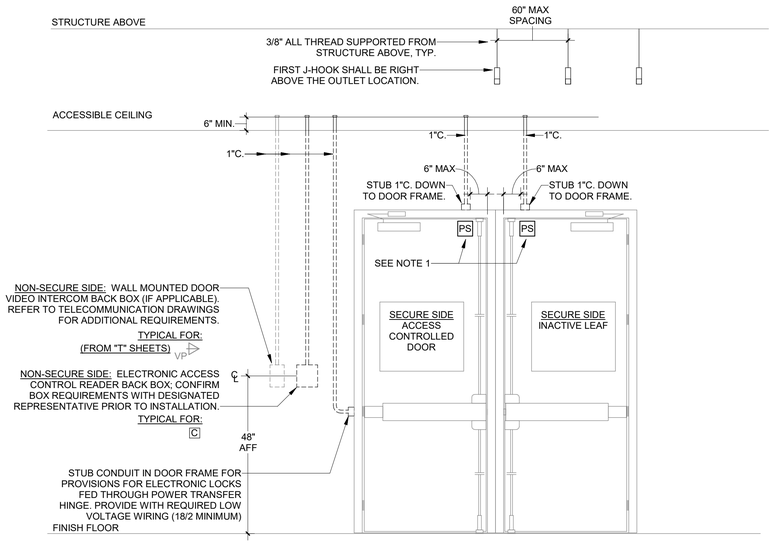
Checked By:	DB	



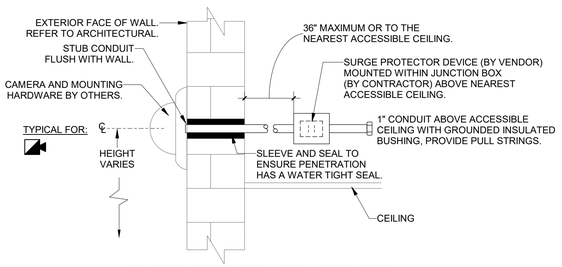
NOTES:
1. ACS DOOR POSITION SWITCH (NOT SHOWN ON PLANS FOR CLARITY).
2. AS A MINIMUM, PROVIDE PULL BOX EVERY 100' OF INTERIOR CONDUIT RUNS.
3. CONDUIT SOLUTIONS ARE SHOWN FOR BOTH ELECTRIC LOCKS AND ELECTRIC STRIKES. CONTRACTOR SHALL FINALIZE WHICH IS BEING PROVIDED PRIOR TO ROUGH-IN AS ONLY ONE SOLUTION IS REQUIRED TO BE INSTALLED.
4. DOOR DETAILS ARE DIAGRAMATIC ONLY.CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL FOR EXACT DOOR TYPES AT EACH LOCATION.

1 SINGLE DOOR DETAIL - CR
NOT TO SCALE



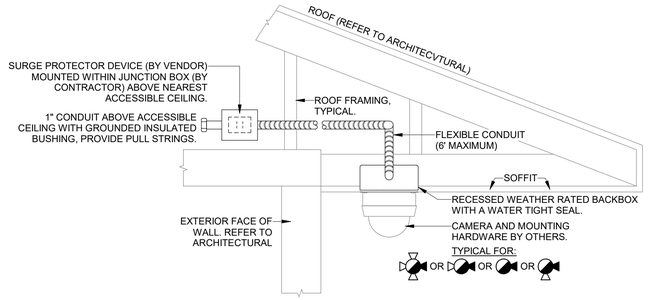
NOTES:
1. ACS DOOR POSITION SWITCH (NOT SHOWN ON PLANS FOR CLARITY).
2. ALL NOTED ACCESSIBLE PULL BOXES AND BACK BOXES ARE LOCATED ON SECURE SIDE OF DOOR, UNO.
3. AS A MINIMUM, PROVIDE PULLBOX EVERY 100' OF INTERIOR CONDUIT RUNS.
4. DOOR HARDWARE (LOCKSETS AND PUSH BARS) ARE REPRESENTATIVE ONLY AND MAY NOT REPRESENT THE SCHEDULE FOR ACTUAL DOOR HARDWARE INSTALLED.
5. DIMENSIONS SHOWN ON DETAIL ARE TYPICAL TO ASSIST WITH INSTALL BUT MAY VARY IN FIELD. COORDINATE EXACT LOCATIONS PRIOR TO ROUGH-IN.
6. CONDUIT SOLUTIONS ARE SHOWN FOR BOTH ELECTRIC LOCKS AND ELECTRIC STRIKES. CONTRACTOR SHALL FINALIZE WHICH IS BEING PROVIDED PRIOR TO ROUGH-IN AS ONLY ONE SOLUTION IS REQUIRED TO BE INSTALLED.
7. DOOR DETAILS ARE DIAGRAMATIC ONLY.CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL FOR EXACT DOOR TYPES AT EACH LOCATION.

2 SECURITY DOUBLE DOOR DETAIL - CR
NOT TO SCALE



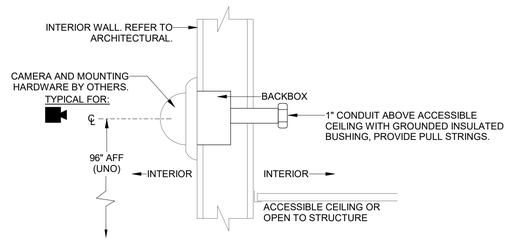
NOTES:
1. INSTALL CAMERA, MOUNTS AND ACCESSORIES PER MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS.

3 EXTERIOR CCTV MOUNTING DETAIL - WALL
NOT TO SCALE



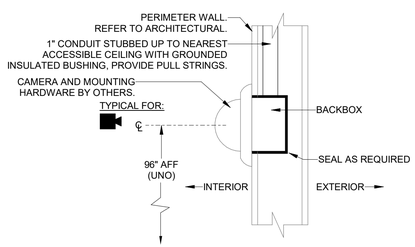
NOTES:
1. INSTALL CAMERA, MOUNTS AND ACCESSORIES PER MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS.

4 EXTERIOR CCTV CAMERA CEILING MOUNT DETAIL - SOFFIT/COVERING
NOT TO SCALE



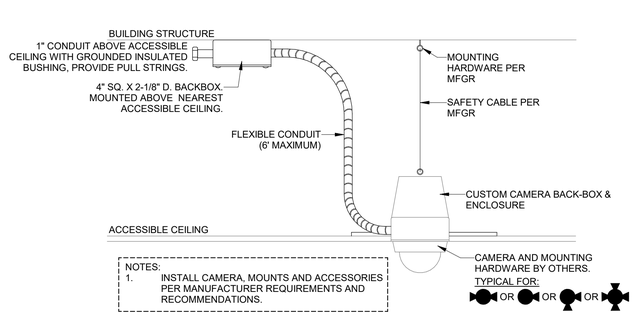
NOTES:
1. INSTALL CAMERA, MOUNTS AND ACCESSORIES PER MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS.

5 INTERIOR CCTV MOUNTING DETAIL - WALL
NOT TO SCALE



NOTES:
1. INSTALL CAMERA, MOUNTS AND ACCESSORIES PER MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS.

6 INTERIOR CCTV MOUNTING DETAIL - PERIMETER WALL
NOT TO SCALE



NOTES:
1. INSTALL CAMERA, MOUNTS AND ACCESSORIES PER MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS.

7 INTERIOR CCTV CAMERA MOUNTING DETAIL - CEILING
NOT TO SCALE

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OKALOOSA COUNTY SCHOOL DISTRICT

Seal:
DAVID M BAGWELL LICENSED PE No. 59251 10/10/24 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 83X98735

Drawing Title:
DETAILS

Date: 10 October 2024

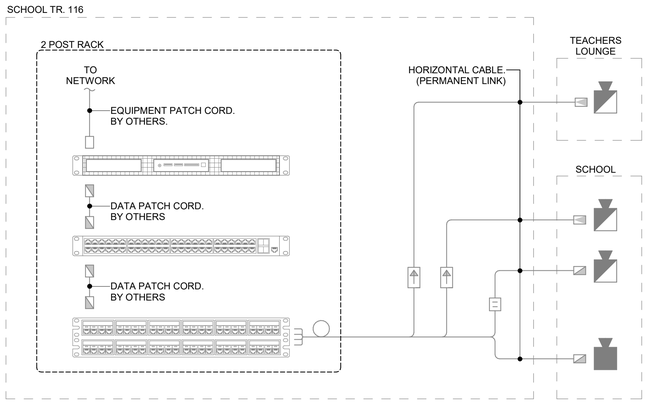
Designed By:	JW	Drawing No.:
Drawn By:	JW	TY501
Checked By:	DB	

RISER DIAGRAM COMPONENTS LEGEND

- CCTV NVR EQUIPMENT. PROVIDED BY OTHERS.
- CCTV POE NETWORK SWITCH. PROVIDED BY OTHERS.
- HORIZONTAL PATCH PANEL FOR (PERMANENT LINK) CABLING. PROVIDE QUANTITY AS REQUIRED. REFER TO RACK ELEVATIONS FOR ADDITIONAL REQUIREMENTS. PROVIDED BY OTHERS
- WALL MOUNTED EXTERIOR CAMERA. PROVIDED BY OTHERS.
- WALL MOUNTED INTERIOR CAMERA. PROVIDED BY OTHERS.
- RJ45 CONNECTOR. PROVIDED BY OTHERS
- PATCH CORD CONNECTOR. PROVIDED BY OTHERS
- COPPER HARD TERMINATION. PROVIDED BY OTHERS
- FIBER OPTIC HARD TERMINATION. PROVIDED BY OTHERS
- SURGE SUPPRESSION DEVICE. MOUNTED WITHIN NEMA 1 ENCLOSURE. PROVIDED BY OTHERS
- CCTV FIBER TO COPPER MEDIA CONVERTER. PROVIDE ON CCTV CABLING EXCEEDING 295'. PROVIDED BY OTHERS
- CONTINUATION SYMBOL.
- 10' OF SLACK NEATLY COILED WITHIN TR LADDER TRAY.
- (#) KEY NOTE.

RISER DIAGRAM LINETYPE LEGEND

- NEW WORK / PROVIDED BY JACOBS/TITAN AND NOT INCLUDED IN GENERAL CONTRACTOR'S SCOPE.
- BUILDING / ROOM OUTLINE



1 CCTV RISER DIAGRAM
NOT TO SCALE

CCTV SYSTEM ROUGH-IN REQUIREMENTS:

1. THE ELECTRICAL CONTRACTOR SHALL OBTAIN VENDOR SHOP DRAWINGS PRIOR TO INSTALLING CONDUIT AND BOXES FOR ALL DEVICES TO ENSURE CORRECT BOXES AND LOCATIONS ARE COORDINATED.
2. CONDUIT SHALL BE 1" EMT MINIMUM. PROVIDE PULLSTRING IN EMPTY CONDUITS.

NOTES:

1. DEVICES SHOWN ON DIAGRAM ARE FOR REFERENCE ONLY, REFER TO FLOOR PLANS FOR ACTUAL DEVICE LOCATIONS AND QUANTITIES. ELECTRICAL CONTRACTOR TO PROVIDE CONDUITS WITH PULLSTRING, DEVICE BOXES / ROUGH-IN, AND ELECTRICAL CIRCUITS TO EQUIPMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE PROVISIONS FOR A CCTV CONTRACTOR TO INSTALL A TURN KEY SOLUTION UNDER A SEPERATE PROJECT. JACOBS/TITAN CCTV CONTRACTOR TO PROVIDE EQUIPMENT, CABLING DEVICES, AND LOCAL BATTERY BACKUP POWER.
2. CCTV SYSTEM CABLING SHALL BE ROUTED ON A NON-CONTINOUS PATHWAYS (J-HOOKS) FROM JUNCTION BOX/CONDUIT STUB AND TO EQUIPMENT LOCATION.
3. CONTRACTOR SHALL REFER TO THE VENDORS SHOP DRAWINGS FOR FINAL DEVICE AND EQUIPMENT LOCATIONS.
4. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF CCTV EQUIPMENT AND MONITOR WITH JACOBS/TITAN REPRESENTATIVE PRIOR TO ROUGH-IN.

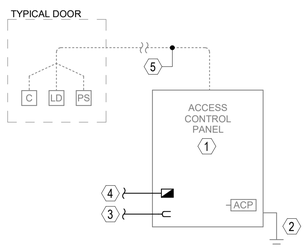
ACCESS CONTROL RISER DIAGRAM LEGEND

EQUIPMENT:

- C — CARD READER. PROIVDED BY OTHERS
- LD — LOCKING DEVICES SERVING DOOR. NOT SHOWN ON FLOOR PLANS FOR CLARITY. PROVIDED BY OTHERS
- PS — DOOR POSITION SWITCH SERVING DOOR. NOT SHOWN ON FLOORPLANS FOR CLARITY. PROVIDED BY OTHERS.
- RJ-45 CONNECTOR. PROVIDED BY OTHERS. FINAL TERMINATIONS CONNECTION TO EQUIPMENT BY SECURITY CONTRACTOR.
- ELECTRICAL POWER TERMINATION. BY OTHERS
- CONTINUATION SYMBOL.
- (#) KEY NOTE.

ACCESS CONTROL LINETYPE LEGEND

- ——— = WORK PROVIDED BY THE CONTRACTOR.
- ····· = INDICATES DEVICE CONDUCTORS. (BY OTHERS)



2 ACCESS CONTROL RISER DIAGRAM
NOT TO SCALE

ACCESS CONTROL SYSTEM ROUGH-IN REQUIREMENTS:

1. THE ELECTRICAL CONTRACTOR SHALL OBTAIN VENDOR SHOP DRAWINGS PRIOR TO INSTALLING CONDUIT AND BOXES FOR ALL DEVICES TO ENSURE THE CORRECT BOXES AND LOCATIONS ARE COORDINATED.
2. CONDUIT SHALL BE 1" EMT MINIMUM. PROVIDE PULLSTRINGS IN EMPTY CONDUITS.
3. DEVICE BOXES SHALL BE 4-11/16" SQUARE BY 2-1/8". EXACT TYPE OF BOX SHALL BE COORDINATE WITH VENDOR PRIOR TO ORDERING MATERIALS.

NOTES:

1. DEVICES SHOWN ON DIAGRAM ARE FOR REFERENCE ONLY, REFER TO FLOOR PLANS FOR ACTUAL DEVICE LOCATIONS, QUANTITIES. CONTRACTOR TO PROVIDE CONDUITS WITH PULLSTRING, DEVICE BOXES / ROUGH-IN, AND PROVISIONS FOR AN ACCESS CONTROL CONTRACTOR TO INSTALL A TURN KEY SOLUTION UNDER A SEPARATE PROJECT. JACOBS/TITAN ACCESS CONTROL CONTRACTOR TO PROVIDE EQUIPMENT, WIRING, DEVICES, AND LOCAL BATTERY BACKUP POWER.
2. ACCESS CONTROL SYSTEM SHALL ROUTED ON A NON-CONTINOUS PATHWAYS (J-HOOKS) FROM DOOR LOCATION TO ACCESS CONTROL PANEL. REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS,
3. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ACCESS CONTROL EQUIPMENT WITH JACOBS/TITAN REPRESENTATIVE PRIOR TO ROUGH-IN.

SHEET NOTES

1 ACCESS CONTROL PANEL (ACP) PROVIDED BY OTHERS.
2 NO. 6 AWG INSULATED (GREEN) SOLID COPPER GROUNDING CONDUCTOR, BOND TO ENCLOSURE FACTORY GROUNDING POST WITH ONE HOLE COMPRESSION LUG AND SS LOCKING NUT. ELECTRICALL CONTRACTOR RUN IN CONDUIT AND BOND TO COMMUNICATIONS SYSTEM AND ELECTRICAL SERVICE GROUND.
3 DEDICATED 120V CIRCUIT PROVIDED BY ELECTRICAL CONTRACTOR, REFER TO ELECTRICAL DRAWINGS. PROVIDE WITH 8 HOUR BATTERY BACKUP POWER.
4 (1) CATEGORY 6 CABLE FROM THE SERVING TELECOMMUNICATION ROOM BY TELECOMMUNICATIONS CONTRACTOR. REFER TO THE "T" SHEETS. FINAL TERMINATION TO SECURITY EQUIPMENT BY THE SECURITY CONTRACTOR.
5 CONDUCTORS J-HOOKED BETWEEN LOCAL JUNCTION BOXES AND ACCESS CONTROL PANEL.

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Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

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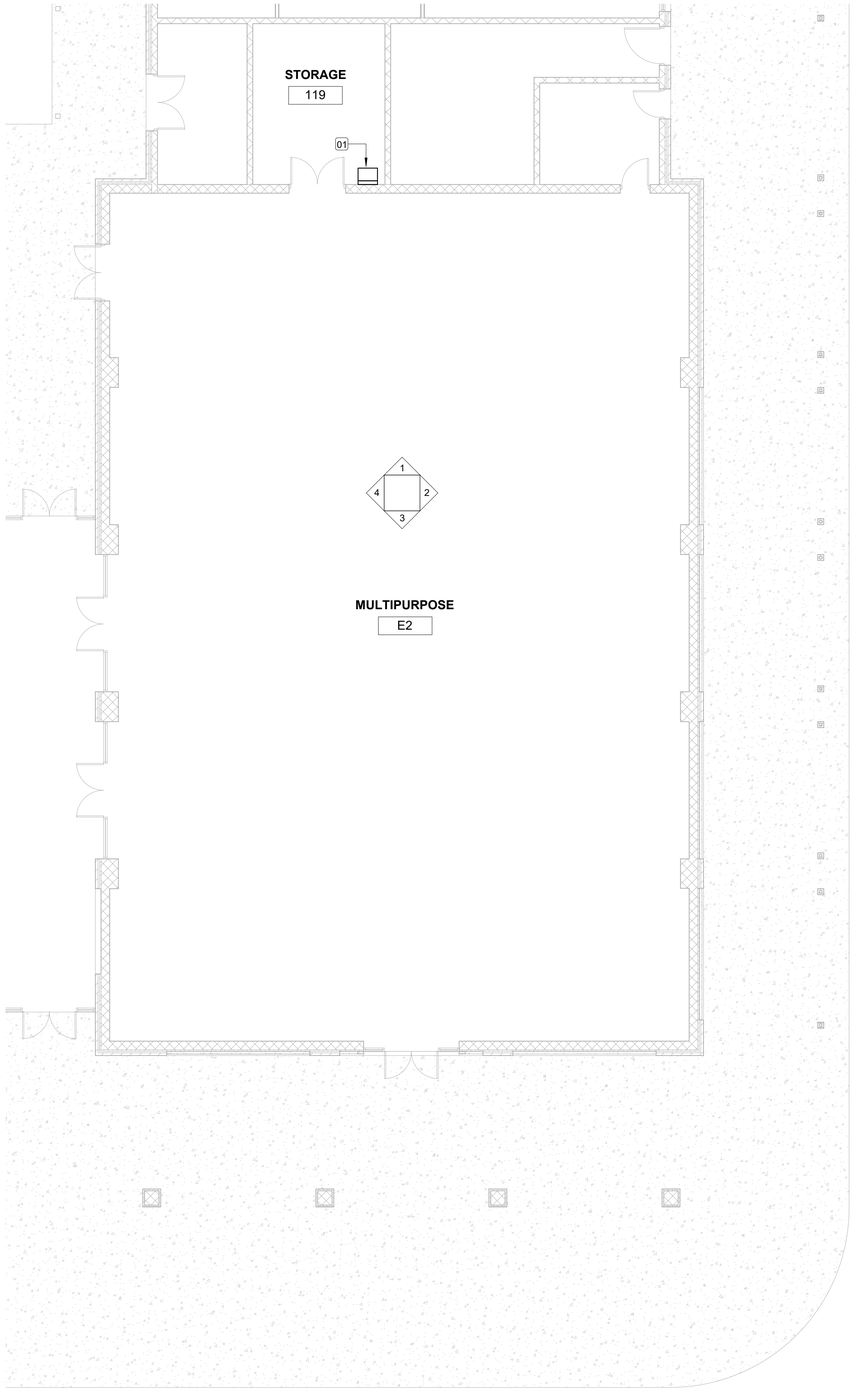
Project No.: 83X98735

Drawing Title:

RISER DIAGRAMS

Date: 10 October 2024

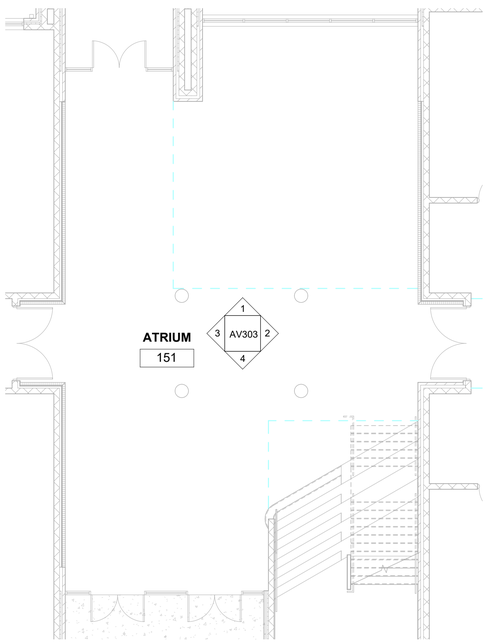
Designed By:	JW	*Drawing No.:*
Drawn By:	JW	TY601
Checked By:	DB	



AV Keynote Legend	
Key Value	Keynote Text
01	AV EQUIPMENT RACK - WALL MOUNTED. PROVIDE 120V 20A CIRCUIT FOR AV POWER. POWER PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. AV EQUIPMENT RACK PROVIDED AND INSTALLED BY AV CONTRACTOR.

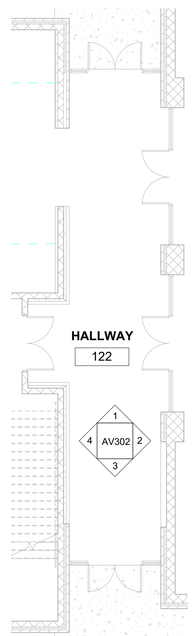
1 AV 1ST FLOOR PLAN - MULTIPURPOSE

SCALE: 1/8" = 1'-0"



2 AV 1ST FLOOR PLAN - ATRIUM

SCALE: 1/8" = 1'-0"



3 AV 1ST FLOOR PLAN - HALLWAY

SCALE: 1/8" = 1'-0"

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4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal:

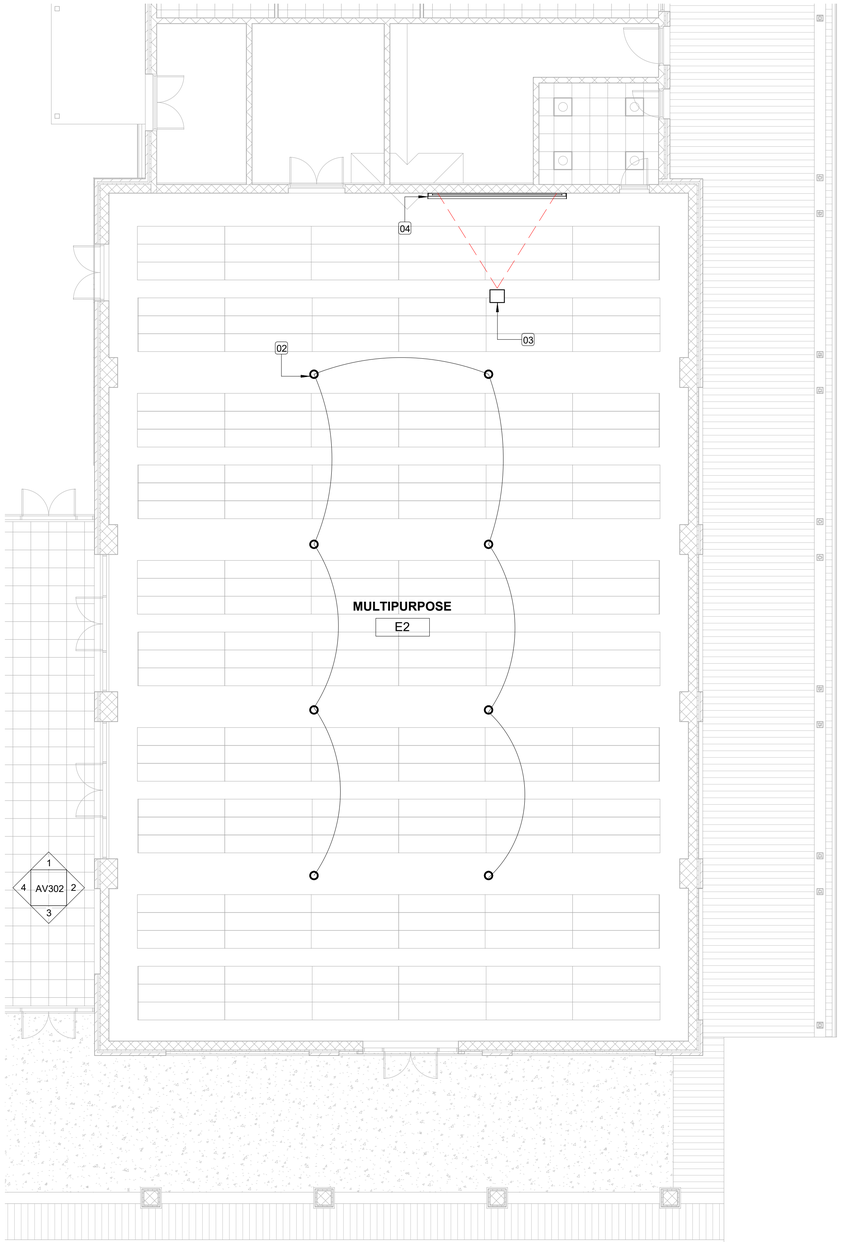
Project No.: 83X98735

Drawing Title:
AV 1ST FLOOR PLAN

Date: 10 October 2024

Designed By: CW
Drawn By: CW
Checked By: Checker

Drawing No.:
AV100



AV Keynote Legend	
Key Value	Keynote Text
02	SUSPENDED PENDANT LOUDSPEAKER [LS]. MOUNT 1 GANG BOX ON ROOF DECK WHERE SHOWN. ROUTE 1" CONDUIT TO AV EQUIPMENT RACK IN STORAGE 119. CONNECT ADJACENT LOUDSPEAKER BOXES WITH 1" CONDUIT. BOXES AND CONDUIT PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PENDANT LOUDSPEAKERS PROVIDED AND INSTALLED BY AV CONTRACTOR. VERIFY COLOR WITH ARCHITECT.
03	VIDEO PROJECTOR. MOUNT JUNCTION BOX ON STEEL ABOVE PROJECTOR, WHERE SHOWN. ROUTE 1" CONDUIT TO AV EQUIPMENT RACK IN STORAGE 119. PROVIDE 120V 20A SHARED CIRCUIT FOR PROJECTOR AND SCREEN POWER. BOXES, CONDUIT AND POWER PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROJECTOR, RIGGING AND PROTECTIVE HOUSING PROVIDED AND INSTALLED BY AV CONTRACTOR.
04	MOTORIZED PROJECTION SCREEN MOUNTED ON WALL AT 12' A.F.F. PROVIDE 120V 20A SHARED CIRCUIT WITH PROJECTOR. ROUTE 1" CONDUIT TO AV EQUIPMENT RACK IN STORAGE 119 FOR UP/DOWN CONTROL CABLE. BOXES, CONDUIT AND POWER PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROJECTION SCREEN PROVIDED AND INSTALLED BY AV CONTRACTOR.

1 AV 1ST FLOOR REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

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312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal:

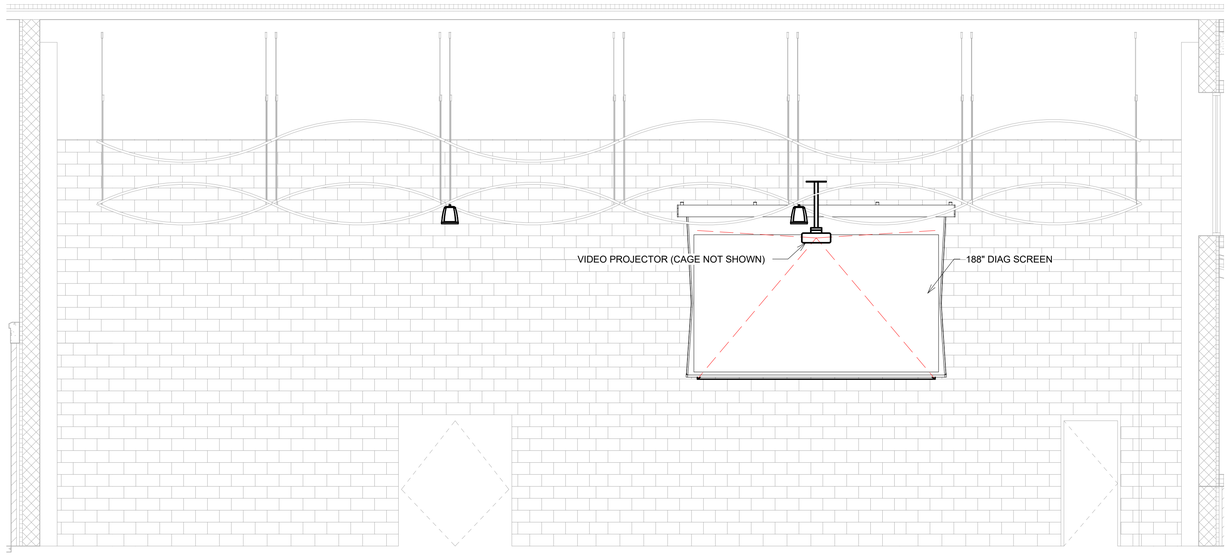
Project No.: 83X98735

Drawing Title:
AV 1ST FLOOR REFLECTED CEILING PLAN

Date: 10 October 2024

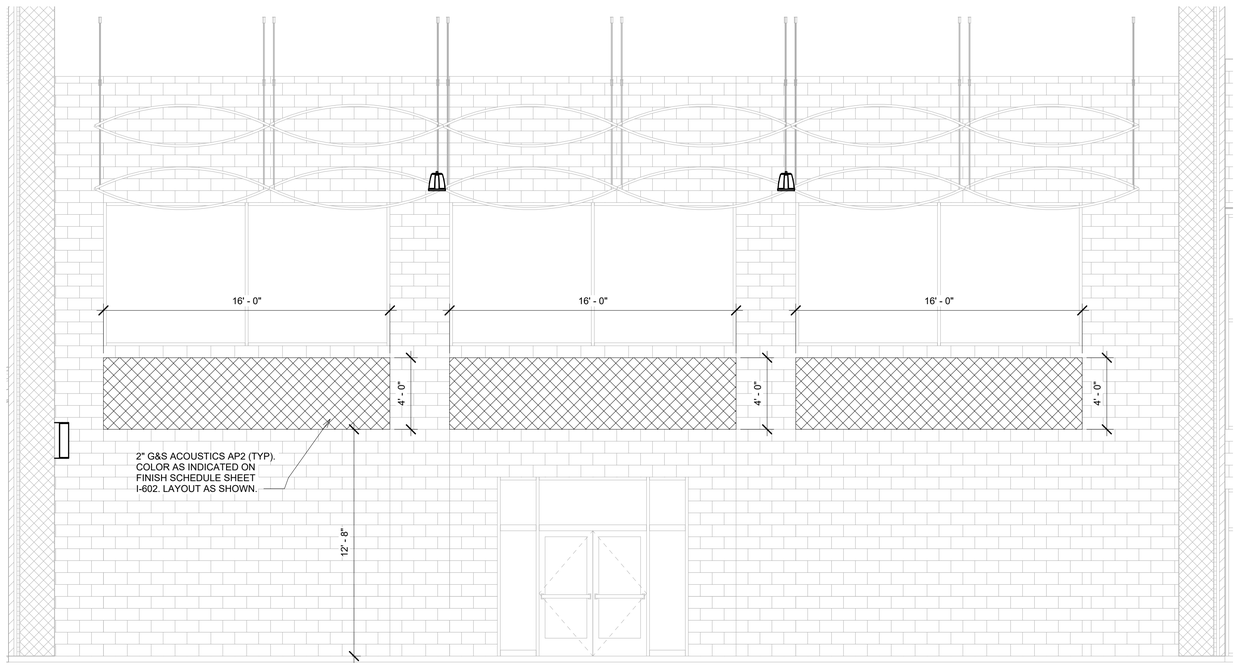
Designed By: CW
Drawn By: CW
Checked By: Checker

Drawing No.: AV200



1 AV ELEVATION - NORTH WALL

SCALE: 1/4" = 1'-0"



3 AV ELEVATION - SOUTH WALL

SCALE: 1/4" = 1'-0"

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Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal:

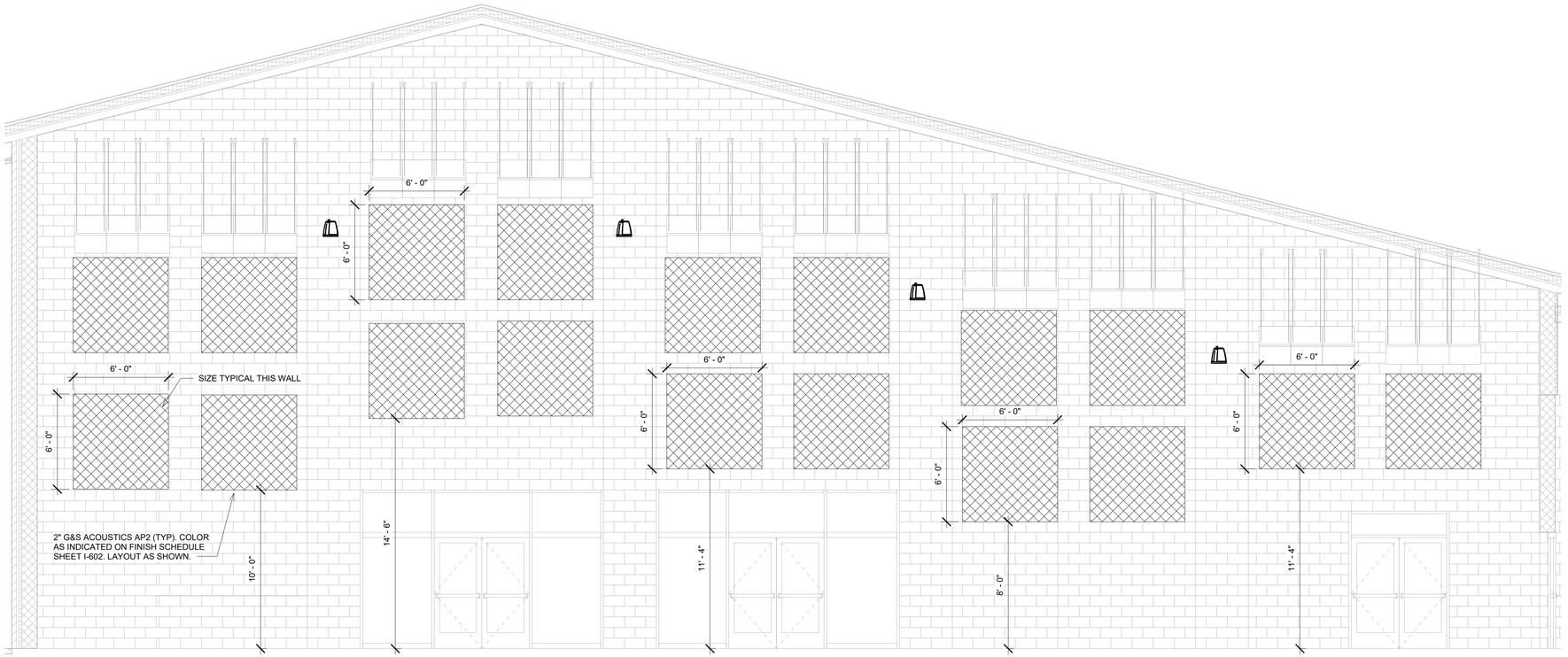
Project No.: 83X98735

Drawing Title:
AV SECTIONS & ELEVATIONS - 1

Date: 10 October 2024

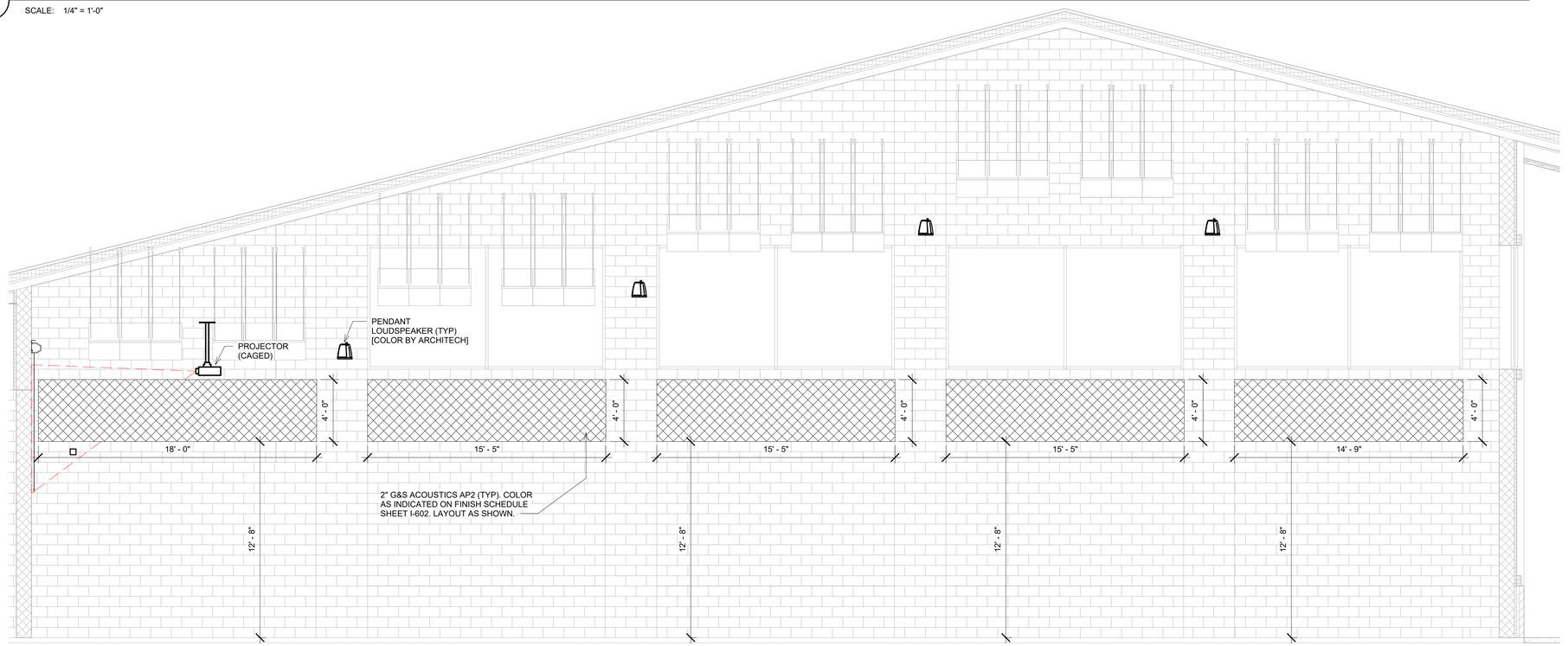
Designed By: CW
Drawn By: CW
Checked By: Checker

Drawing No.: AV300



4 AV ELEVATION - WEST WALL

SCALE: 1/4" = 1'-0"



2 AV ELEVATION - EAST WALL

SCALE: 1/4" = 1'-0"

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Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal:

Project No.: 83X98735

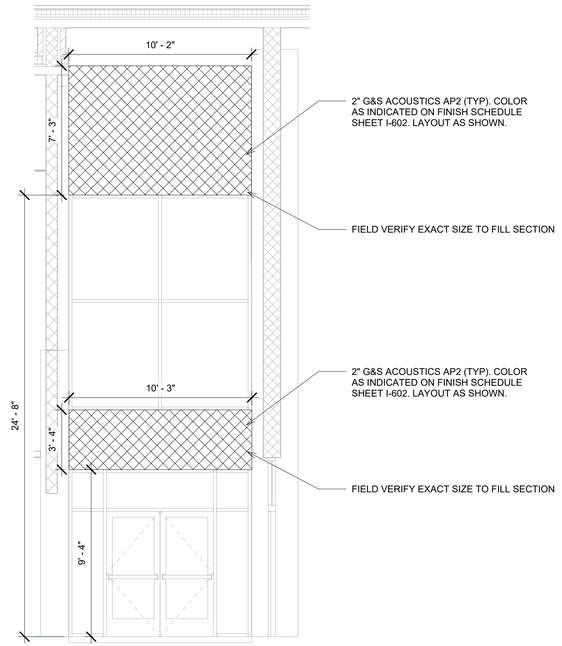
Drawing Title:
AV SECTIONS & ELEVATIONS - 2

Date: 10 October 2024

Designed By: CW
Drawn By: CW
Checked By: Checker

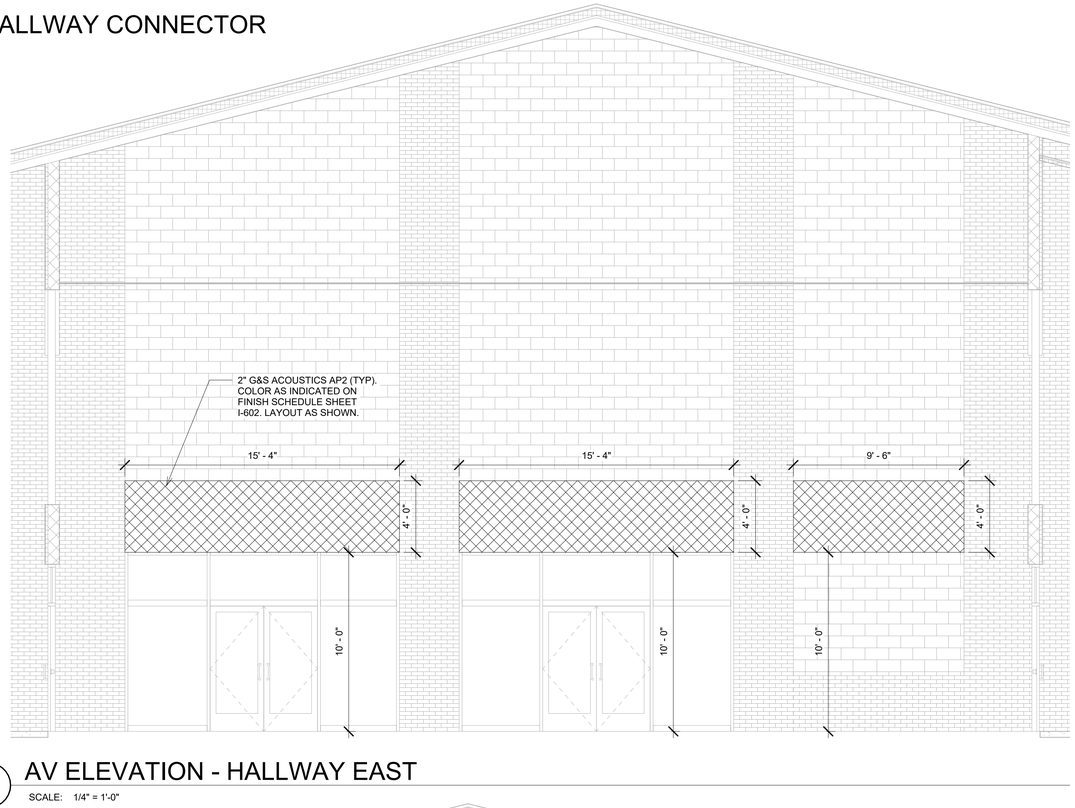
Drawing No.: AV301

APPROX 554SF OF 1" PANEL / TACK BOARD IN HALLWAY CONNECTOR



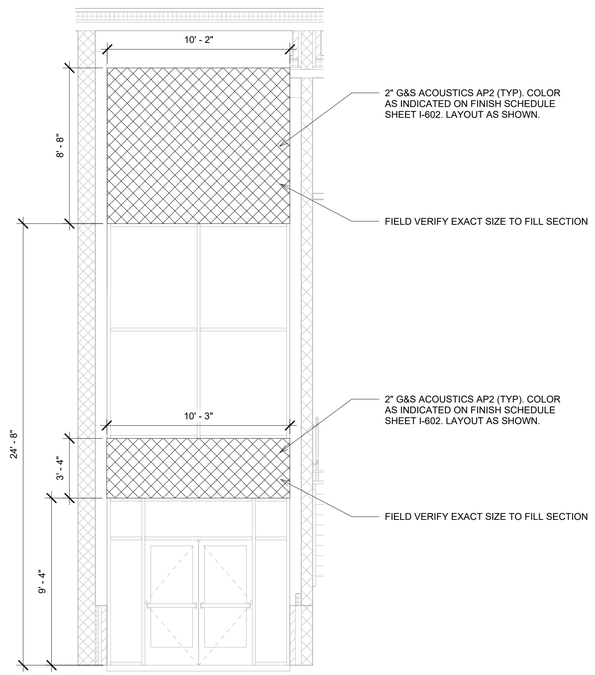
1 AV ELEVATION - HALLWAY NORTH

SCALE: 1/4" = 1'-0"



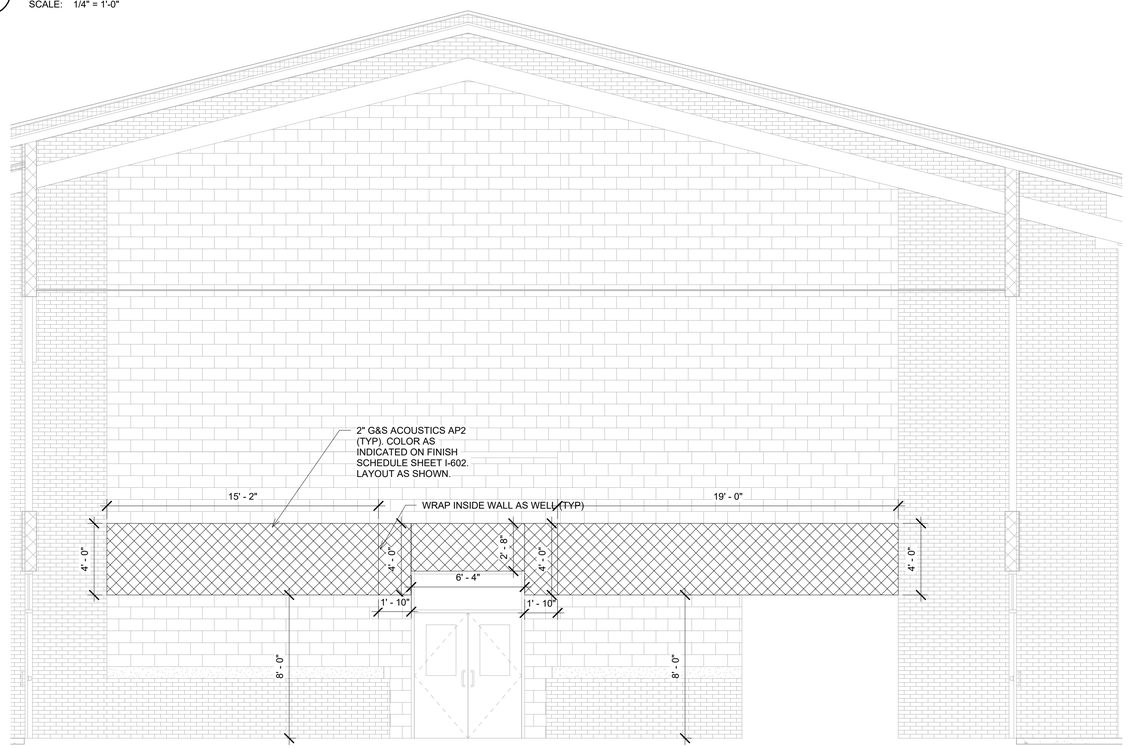
2 AV ELEVATION - HALLWAY EAST

SCALE: 1/4" = 1'-0"



3 AV ELEVATION - HALLWAY SOUTH

SCALE: 1/4" = 1'-0"



4 AV ELEVATION - HALLWAY WEST

SCALE: 1/4" = 1'-0"

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Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal:

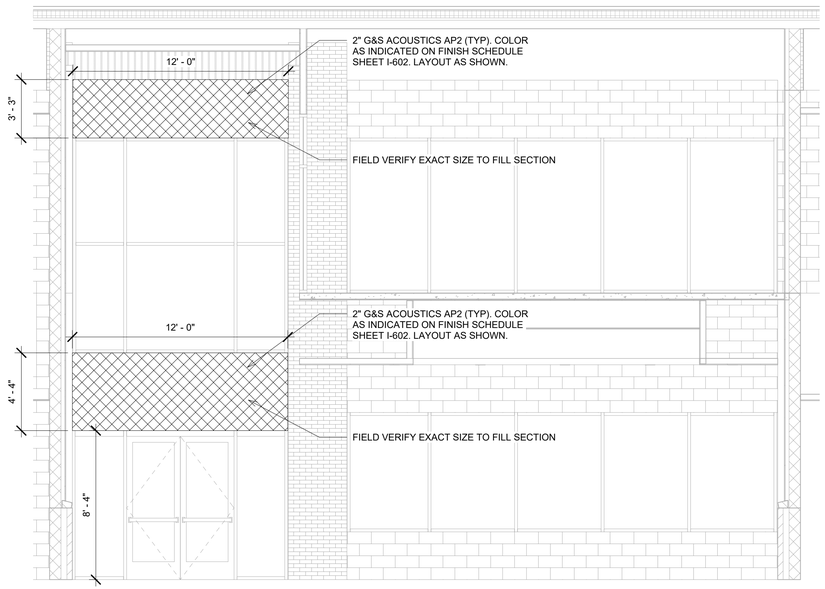
Project No.: 83X98735

Drawing Title:
AV SECTIONS & ELEVATIONS - 3

Date: 10 October 2024

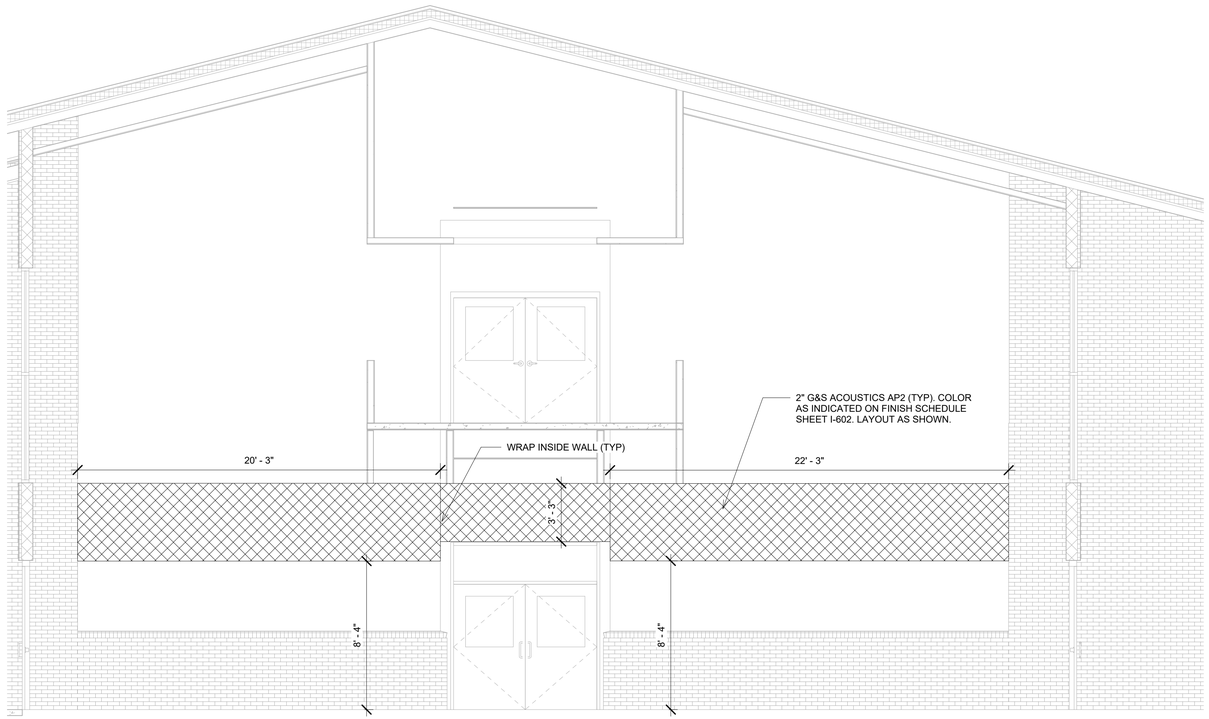
Designed By: CW
Drawn By: CW
Checked By: Checker

Drawing No.: AV302



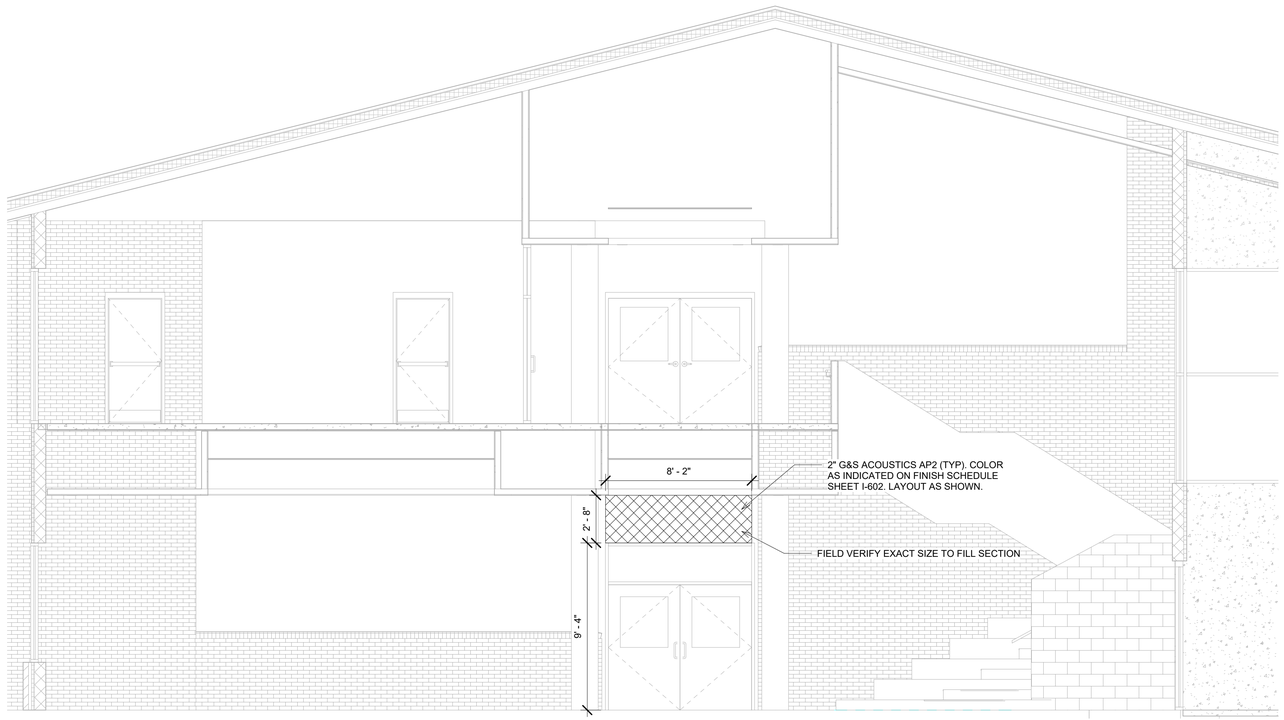
1 AV ELEVATION - ATRIUM NORTH

SCALE: 1/4" = 1'-0"



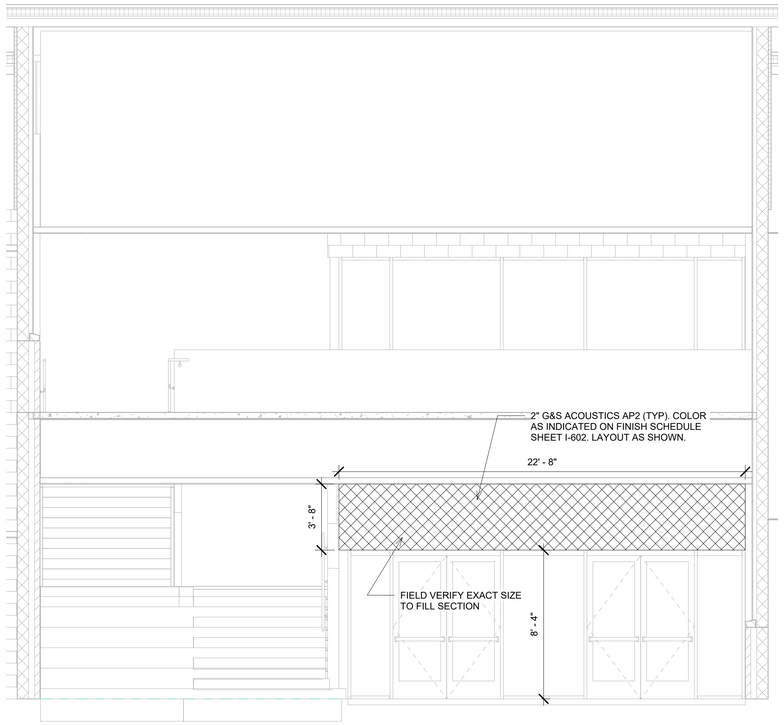
3 AV ELEVATION - ATRIUM WEST

SCALE: 1/4" = 1'-0"



2 AV ELEVATION - ATRIUM EAST

SCALE: 1/4" = 1'-0"



4 AV ELEVATION - ATRIUM SOUTH

SCALE: 1/4" = 1'-0"

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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal:

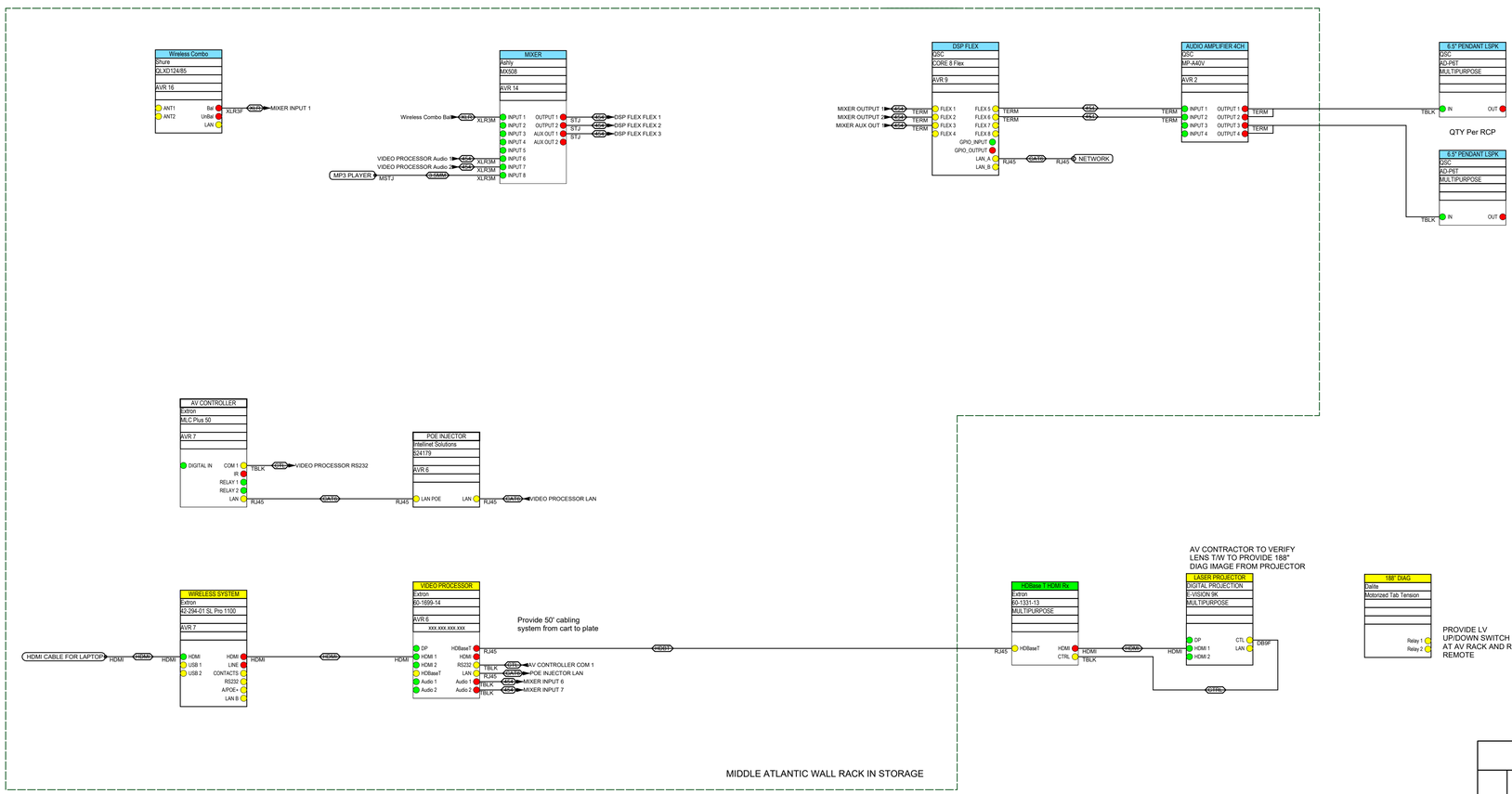
Project No.: 83X98735

Drawing Title:
AV SECTIONS & ELEVATIONS - 4

Date: 10 October 2024

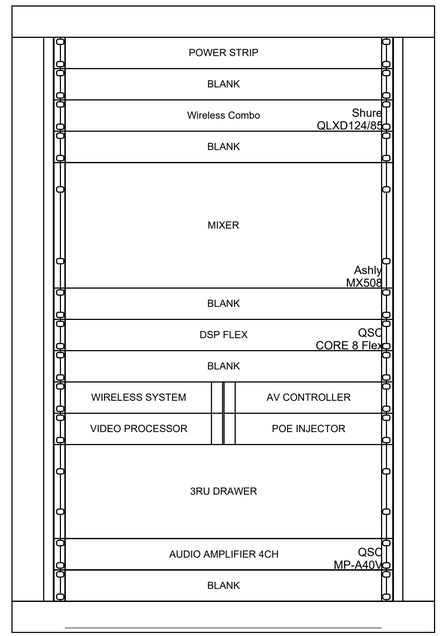
Designed By: CW
Drawn By: CW
Checked By: Checker

Drawing No.: AV303



1 AV SYSTEM SCHEMATIC - MP ROOM

SCALE: 12" = 1'-0"



2 AV EQUIPMENT RACK - MP ROOM

SCALE: 3" = 1'-0"

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312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

Seal:

Project No.: 83X98735

Drawing Title:
AV SYSTEM SCHEMATIC - PART 1

Date: 10 October 2024

Designed By: CW
Drawn By: CW
Checked By: Checker

Drawing No.: AV400

DESTIN ELEMENTARY SCHOOL

DESTIN, OKALOOSA COUNTY, FLORIDA

STORMWATER MANAGEMENT SYSTEM NARRATIVE, CALCULATIONS & EXHIBITS

PREPARED BY:

REBOL-BATTLE & ASSOCIATES
Civil Engineers and Surveyors

2301 N. 9th Avenue, Suite 300
Pensacola, Florida 32503
T: 850.438.0400 | F: 850.438.0448
EB 00009657

RBA #: 2023.074

OCTOBER 8, 2024

This item has been digitally signed and sealed by Paul A. Battle, P.E. using a digital signature. Printed copies of this document are not considered signed and sealed and the associated authentication code must be verified on any electronic copies.

Digitally signed by paul a battle
Date: 2025.06.03 10:00:54 -05'00'

Calculations Performed By:
Alex Steelman, P.E.
FL Reg. No. 96971

Calculations Checked By:
Paul A. Battle, P.E.
FL Reg. No. 53126

THIS ITEM HAS BEEN DIGITALLY SIGNED/SEALED BY PAUL A. BATTLE, P.E. ON 06/03/2025. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED/ SEALED. DIGITAL CREDENTIALS MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

REBOL-BATTLE & ASSOCIATES
Civil Engineers and Surveyors

October 8, 2024

RE: Destin Elementary School
630 Kelly Street, Destin, FL 32541
RBA Project No.: 2023.074

Project Narrative:

Destin Elementary School is an active school campus in Okaloosa County, Florida. The goal of this project is to construct (2) new school buildings, associated infrastructure, and stormwater management facilities to support these improvements. Runoff will be captured by an inlet/pipe system and conveyed to (2) zero-discharge dry ponds in the southern portion of the property.

Pond A will be 3 feet deep (Top 20.00/Bottom 17.00). Pond B will be 5.10 feet deep (Top 17.10/Bottom 12.00). Both ponds will have 4:1 side slopes. The proposed design basins for Pond A and Pond B have estimated C factors of 0.40 and 0.52, respectively. Please refer to the attached HydroCAD report for additional model output data. The proposed facilities will provide required treatment and attenuation of stormwater runoff during the 100-year critical duration storm event. During this storm event, Pond A will stage to an elevation of 19.23' (freeboard = 0.77 feet). Pond B will stage to an elevation of 16.60' (freeboard = 0.50 feet). The site is anticipated to not adversely impact adjacent properties.

2301 N. 9th Avenue, Suite 300 • Pensacola, Florida 32503 • 850.438.0400 • Fax: 850.438.0448
www.rebol-battle.com

Design Calculation Worksheet

Design Standards:

Water Quantity:

- Attenuate a **100-year critical duration** storm, up to and including the 24-hour duration over the site area as required for detention systems with an approved positive outfall, as per requirements set forth by the Okaloosa County Land Development Code

Water Quality:

- Retain and percolate the **first ½" of rainfall or 1" of runoff (whichever is greater)** over the total project area as per the requirements set forth by the Okaloosa County Land Development Code
- Retain and percolate the **first 1" of rainfall** over the total project area as per the requirements set forth by the Northwest Florida Water Management District Environmental Resource Permitting – Phase II.

Background Information

Pre-development Runoff Coefficient & Curve Number (Area contributing to the Ponds):

Impervious Area (Ex. Asphalt/Buildings)	(C=0.95)	= 28,129-sf
Semi-Impervious Area (Ex. Gravel, Baseball Field)	(C=0.60)	= 19,403-sf
Pervious Area	(C=0.25)	= 494,972-sf
Total Area		= 542,504-sf

C_w = 0.30

Pre-Development Discharge Rate:

$Q_{pre} = 0.00\ cfs$, *allowable*

POND A

Post-development Runoff Coefficient & Curve Number (Area contributing to the Pond):

Proposed Impervious Area	(C=0.90)	= 13,463-sf
Pond Top	(C=1.00)	= 12,988-sf
Pervious Area	(C=0.20)	= 98,518-sf
Total Area		= 124,969-sf

C_w = 0.40

Post-development Time of Concentration:

$$\frac{T_c = 1.8(1.1 - 0.40) * 215^{1/2}}{0.90^{1/3}}$$

$T_c = 19.14\ minutes$

Water Quantity

Total Storage Volume Provided:

Elevation (feet)	Surface Area (sf)	Incremental Volume (cf)	Cumulative Volume (cf)
17.00	6,041	0	0
18.00	8,256	7,149	7,149
19.00	10,572	9,414	16,563
20.00	12,988	11,780	28,343

Post-development Discharge Rate; 100-yr Critical Storm Event [24-hr duration] (Okaloosa County):

Volume = 19,065-cf @ EL = 19.23' @ Critical Duration of 3.07 hours

Post-Development Discharge = $Q_{post} = 0.00\ cfs$ (full retention pond)

Allowable Discharge ≤ $Q_{pre} = 0.00\ cfs$ ∴ OK

See attached HydroCAD report.

100-Year Storm Event Data:

Duration (hr)	Inflow (cfs)	Outflow, *Primary* (cfs)	Max Stage (ft)	Storage (cf)
1	5.21	0.00	18.85	15,026
2	3.53	0.00	19.20	18,754
4	2.17	0.00	19.19	18,652
8	1.35	0.00	18.79	14,370
24	0.65	0.00	17.02	141

Water Quality

Geotechnical Reported Perc. Rate, *DRI* = 12 in/hr (at Soil Boring Location R-1 & R-4)
Factor of safety = 2
Perc. Rate used = 6 in/hr, *applied over pond bottom*

Okaloosa County Required Treatment Volume:

Treatment Volume = 124,969-sf *1-inch * 1ft / 12in * 0.40 = 4,165.63-cf *
Treatment Volume reached at EL. = ±17.25'
Top of Pond EL. = 20.00' ∴ OK
** Use NWFWMD Treatment Volume*

NWFWMD Required Treatment Volume:

Treatment Volume = 124,969-sf * 1-inch * 1ft / 12in = 10,414.08-cf
Treatment Volume reached at EL. = ±17.63'
Top of Pond EL. = 20.00' ∴ OK

Time to Recover NWFWMD Required Treatment Volume:

Treatment Volume = 10,414.08-cf

Discharge Rate *(exfiltration through pond bottom)* = 0.84 cfs (3,024 cf/hr)

$$T_{perc} = \frac{10{,}414.08\ cf}{0.84\ cf/sec} \sim 3.44\ hours$$

Since T_{perc} < 72 hours ∴ OK

**0.84 cfs is derived from perc rate applied to the pond bottom; 0.84 cf/sec = (6.0 in/hr)*(1 ft/12in)*(1 hr/3600 sec)*(6,041 sf)*

Time to Recover Entire Pond A Volume During Critical Duration Event

Entire Pond Volume = 19,065-cf

Discharge Rate *(exfiltration through pond bottom)* = 0.84 cfs (3,024 cf/hr)

$$T_{perc} = \frac{19{,}065\ cf}{0.84\ cf/sec} \sim 14.53\ hours$$

Since T_{perc} < 168 hours ∴ OK

**0.84 cfs is derived from perc thru pond bottom*

POND B

Post-development Runoff Coefficient & Curve Number (Area contributing to the Pond):

Proposed Impervious Area	(C=0.90) = 100,154-sf
Existing Building(s)	(C=1.00) = 1,170-sf
Proposed Building	(C=1.00) = 41,990-sf
Pond Top	(C=1.00) = 34,452-sf
Pervious Area	(C=0.20) = 239,769-sf
Total Area	= 417,535-sf

C_w = 0.52

Post-development Time of Concentration:

$$\frac{T_c = 1.8(1.1 - 0.52) * 279^{1/2}}{1.25^{1/3}}$$

$$T_c = 16.19\ minutes$$

Water Quantity

Total Storage Volume Provided:

Elevation (feet)	Surface Area (sf)	Incremental Volume (cf)	Cumulative Volume (cf)
12.00	14,921	0	0
13.00	18,545	16,733	16,733
14.00	22,269	20,407	37,140
15.00	26,093	24,181	61,321
16.00	30,018	28,056	89,377
17.00	34,043	32,031	121,407

17.10	34,452	3,425	124,832

Post-development Discharge Rate; 100-yr Critical Storm Event [24-hr duration] (Okaloosa County):

Volume = 108,256-cf @ EL = 16.60' @ Critical Duration of 7.23 hours

Post-Development Discharge = $Q_{post} = 0.00\ cfs$

Allowable Discharge ≤ $Q_{pre} = \pm 0.00\ cfs$ ∴ OK

See attached HydroCAD report.

100-Year Storm Event Data:

Duration (hr)	Inflow (cfs)	Outflow, *Primary* (cfs)	Max Stage (ft)	Storage (cf)
1	22.62	0.00	15.41	72,439
2	15.33	0.00	16.15	94,073
4	9.41	0.00	16.49	104,538
8	5.85	0.00	16.60	107,965
24	2.81	0.00	15.11	64,296

Water Quality

Geotechnical Reported Perc. Rate, *DRI* = 12 in/hr (at Soil Boring Location R-1 & R-4)

Factor of safety = 2

Perc. Rate used = 6 in/hr, *applied over pond bottom*

Okaloosa County Required Treatment Volume:

Treatment Volume = 417,535-sf *1-inch * 1ft / 12in * 0.52 = 18,093.18-cf *

Treatment Volume reached at EL. = ±13.07'

Top of Pond EL. = 17.10' ∴ OK

** Use NWFWMD Treatment Volume*

NWFWMD Required Treatment Volume:

Treatment Volume = 417,535-sf * 1-inch * 1ft / 12in = 34,794.58-cf

Treatment Volume reached at EL. = ±13.89'

Top of Pond EL. = 17.10' ∴ OK

Time to Recover NWFWMD Required Treatment Volume:

Treatment Volume = 34,794.58-cf

Discharge Rate *(exfiltration through pond bottom)* = 2.07 cfs (7,452 cf/hr)

$$T_{perc} = \frac{34{,}794.58\ cf}{2.07\ cf/sec} \sim 4.67\ hours$$

Since T_{perc} < 72 hours ∴ OK

**2.07 cfs is derived from perc rate applied to the pond bottom; 2.07 cf/sec = (6.0 in/hr)*(1 ft/12in)*(1 hr/3600 sec)*(14,921 sf)*

DESTIN ELEMENTARY
SUB-BASIN DATA

	Basin	Total Area (SF)	Total Area (AC)	Misc. Impervious Area (Roads, Curbs) (SF)	Pond (SF)	Pervious Area (SF)	Composite C Factor
POND A BASIN	INLET 001	2,958	0.0679	2,958		0	0.95
	INLET 002	3,404	0.0781	3,404		0	0.95
	INLET 003	2,842	0.0652	2,842		0	0.95
	INLET 004	2,839	0.0652	2,839		0	0.95
	INLET 005	3,041	0.0698	3,041		0	0.95
	INLET 006	2,935	0.0674	2,935		0	0.95
	POND A	65,612	1.5062	100	12,988	52,524	0.40
	COMPENSATORY	52,763	1.2113	3,779		48,984	0.30
POND B BASIN	INLET 007	3,606	0.0828	3,606		0	0.95
	INLET 008	3,496	0.0803	3,496		0	0.95
	INLET 009	16,678	0.3829	7,282		9,396	0.56
	INLET 010	9,268	0.2128	1,043		8,225	0.33
	INLET 011	8,500	0.1951	160		8,340	0.26
	INLET 012	10,379	0.2383	429		9,950	0.28
	INLET 013	33,839	0.7768	517		33,322	0.26
	INLET 014	4,097	0.0941	3,241		856	0.80
	INLET 015	4,756	0.1092	4,342		414	0.89
	INLET 016	10,691	0.2454	7,720		2,971	0.76
	INLET 017	11,786	0.2706	8,788		2,998	0.77
	INLET 018	8,431	0.1935	6,939		1,492	0.83
	INLET 019	17,444	0.4005	7621		9,823	0.56
	INLET 020	15,970	0.3666	10138		5,832	0.69
	INLET 021	7,661	0.1759	6700		961	0.86
	INLET 022	6,562	0.1506	5797		765	0.87
	INLET 023	14,207	0.3261	7958		6,249	0.64
	INLET 024	7,723	0.1773	6668		1,055	0.85
	INLET 025	8,302	0.1906	6906		1,396	0.83
	INLET 030	8,574	0.1968	7075		1,499	0.83
	INLET 031	7,238	0.1662	5798		1,440	0.81
	BUILDING 1A	6,817	0.1565	6817		0	1.00
	BUILDING 1B	7,848	0.1802	7848		0	1.00
	BUILDING 1C	7,469	0.1715	7469		0	1.00
	BUILDING 1D	8,194	0.1881	8194		0	1.00
	BUILDING 1E	3,268	0.0750	3268		0	1.00
	BUILDING 1F	2,913	0.0669	2913		0	1.00
	BUILDING 2	2,736	0.0628	2736		0	1.00
	POND B	162,235	3.7244	100	34452	162,135	0.46

COVERAGE SUMMARY						
TOTAL (SF)	TOTAL (ac)	Impervious	Pervious	Building	Pond	Comp. C
557,082	12.789	173,467	370,627	44,730	47,440	0.63
	% IMPERVIOUS	% COMPENSATORY				
	31.1	9.47131661				

Time to Recover Entire Pond B Volume During Critical Duration Event

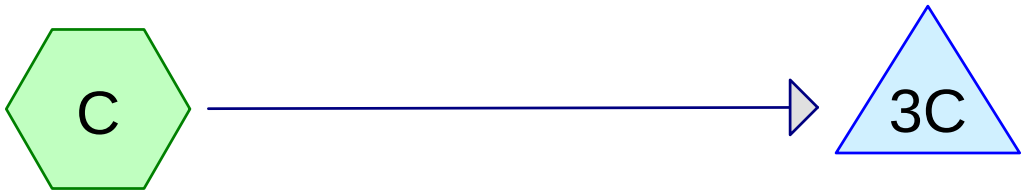
Entire Pond Volume = 108,250-cf

Discharge Rate *(exfiltration through pond bottom)* = 2.07 cfs (7,452 cf/hr)

$$T_{perc} = \frac{108{,}250\ cf}{2.07\ cf/sec} \sim 14.53\ hours$$

Since T_{perc} < 168 hours ∴ OK

**2.07 cfs is derived from perc rate applied to the pond bottom; 2.07 cf/sec = (6.0 in/hr)*(1 ft/12in)*(1 hr/3600 sec)*(14,921 sf)*



Destin ES: Pond Basin
100-yr Critical Duration
Storm Event

Pond A (Zero Discharge
Dry)

Subcat Reach Pond Link

Drainage Diagram for Destin ES_Zero Discharge Pond A
Prepared by {enter your company name here}, Printed 6/2/2025
HydroCAD® 9.10 s/n 03675 © 2011 HydroCAD Software Solutions LLC

Area Listing (all nodes)

Area (acres)	C	Description (subcatchment-numbers)
2.262	0.25	Pervious (C)
0.309	0.90	Proposed Impervious (C)
0.298	1.00	Pond (C)
2.869	0.40	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
0.000	HSG D	
2.869	Other	C
2.869		**TOTAL AREA**

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment C: Destin ES: Pond Basin 100-yr Critical Runoff Area=124,969 sf Runoff Depth=2.71"
Tc=19.1 min C=0.40 Runoff=2.75 cfs 0.648 af

Pond 3C: Pond A (Zero Discharge Dry) Peak Elev=19.23' Storage=19,065 cf Inflow=2.75 cfs 0.648 af
Outflow=0.84 cfs 0.648 af

Total Runoff Area = 2.869 ac Runoff Volume = 0.648 af Average Runoff Depth = 2.71"

Summary for Subcatchment C: Destin ES: Pond Basin 100-yr Critical Duration Storm Event

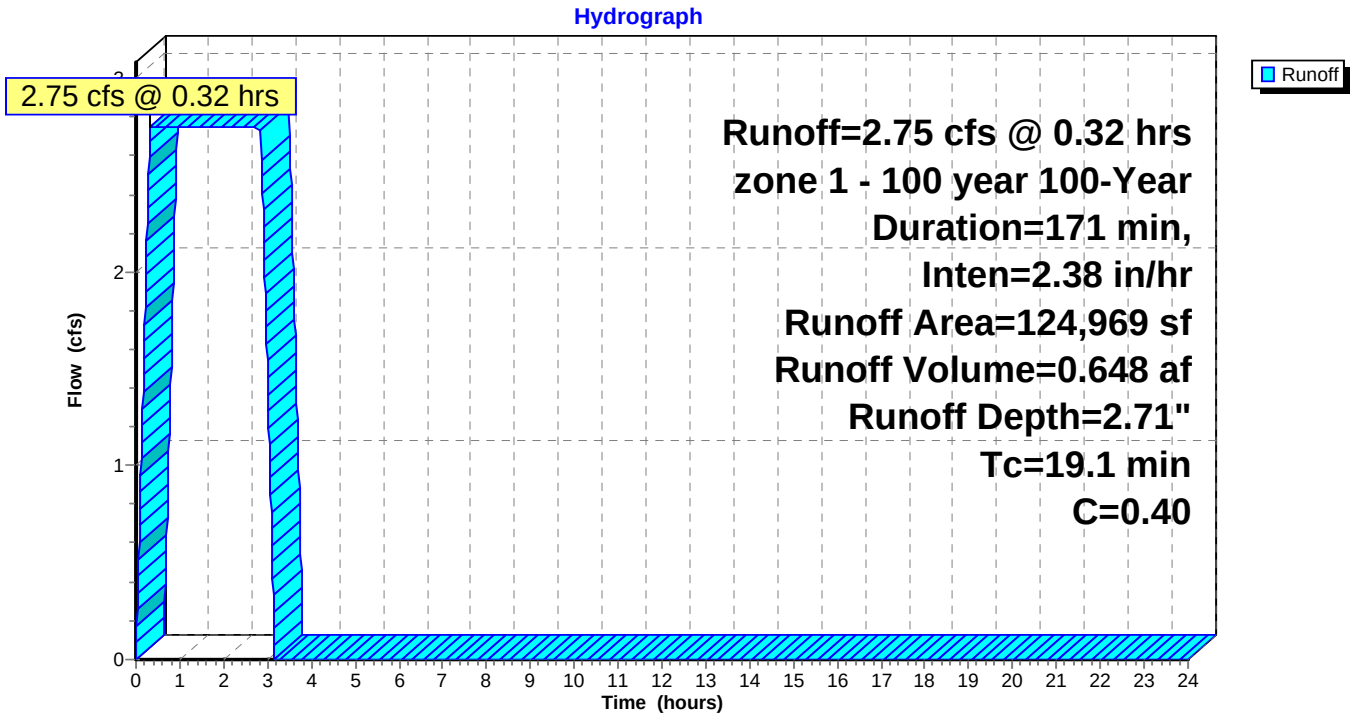
Runoff = 2.75 cfs @ 0.32 hrs, Volume= 0.648 af, Depth= 2.71"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
zone 1 - 100 year 100-Year Duration=171 min, Inten=2.38 in/hr

Area (sf)	C	Description
13,463	0.90	Proposed Impervious
12,988	1.00	Pond
98,518	0.25	Pervious
124,969	0.40	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1					**Direct Entry, HydroCAD Minimum**

Subcatchment C: Destin ES: Pond Basin 100-yr Critical Duration Storm Event



Hydrograph for Subcatchment C: Destin ES: Pond Basin 100-yr Critical Duration Storm Event

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	10.40	0.00	20.80	0.00
0.20	**1.73**	10.60	0.00	21.00	0.00
0.40	**2.75**	10.80	0.00	21.20	0.00
0.60	2.75	11.00	0.00	21.40	0.00
0.80	2.75	11.20	0.00	21.60	0.00
1.00	2.75	11.40	0.00	21.80	0.00
1.20	2.75	11.60	0.00	22.00	0.00
1.40	2.75	11.80	0.00	22.20	0.00
1.60	2.75	12.00	0.00	22.40	0.00
1.80	2.75	12.20	0.00	22.60	0.00
2.00	2.75	12.40	0.00	22.80	0.00
2.20	2.75	12.60	0.00	23.00	0.00
2.40	2.75	12.80	0.00	23.20	0.00
2.60	2.75	13.00	0.00	23.40	0.00
2.80	2.75	13.20	0.00	23.60	0.00
3.00	1.45	13.40	0.00	23.80	0.00
3.20	0.00	13.60	0.00	24.00	0.00
3.40	0.00	13.80	0.00		
3.60	0.00	14.00	0.00		
3.80	0.00	14.20	0.00		
4.00	0.00	14.40	0.00		
4.20	0.00	14.60	0.00		
4.40	0.00	14.80	0.00		
4.60	0.00	15.00	0.00		
4.80	0.00	15.20	0.00		
5.00	0.00	15.40	0.00		
5.20	0.00	15.60	0.00		
5.40	0.00	15.80	0.00		
5.60	0.00	16.00	0.00		
5.80	0.00	16.20	0.00		
6.00	0.00	16.40	0.00		
6.20	0.00	16.60	0.00		
6.40	0.00	16.80	0.00		
6.60	0.00	17.00	0.00		
6.80	0.00	17.20	0.00		
7.00	0.00	17.40	0.00		
7.20	0.00	17.60	0.00		
7.40	0.00	17.80	0.00		
7.60	0.00	18.00	0.00		
7.80	0.00	18.20	0.00		
8.00	0.00	18.40	0.00		
8.20	0.00	18.60	0.00		
8.40	0.00	18.80	0.00		
8.60	0.00	19.00	0.00		
8.80	0.00	19.20	0.00		
9.00	0.00	19.40	0.00		
9.20	0.00	19.60	0.00		
9.40	0.00	19.80	0.00		
9.60	0.00	20.00	0.00		
9.80	0.00	20.20	0.00		
10.00	0.00	20.40	0.00		
10.20	0.00	20.60	0.00		

Summary for Pond 3C: Pond A (Zero Discharge Dry)

Inflow Area = 2.869 ac, Inflow Depth = 2.71" for 100-Year event
Inflow = 2.75 cfs @ 0.32 hrs, Volume= 0.648 af
Outflow = 0.84 cfs @ 0.16 hrs, Volume= 0.648 af, Atten= 69%, Lag= 0.0 min
Discarded = 0.84 cfs @ 0.16 hrs, Volume= 0.648 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Peak Elev= 19.23' @ 3.07 hrs Surf.Area= 11,129 sf Storage= 19,065 cf

Plug-Flow detention time= 190.5 min calculated for 0.648 af (100% of inflow)
Center-of-Mass det. time= 190.5 min (285.5 - 95.1)

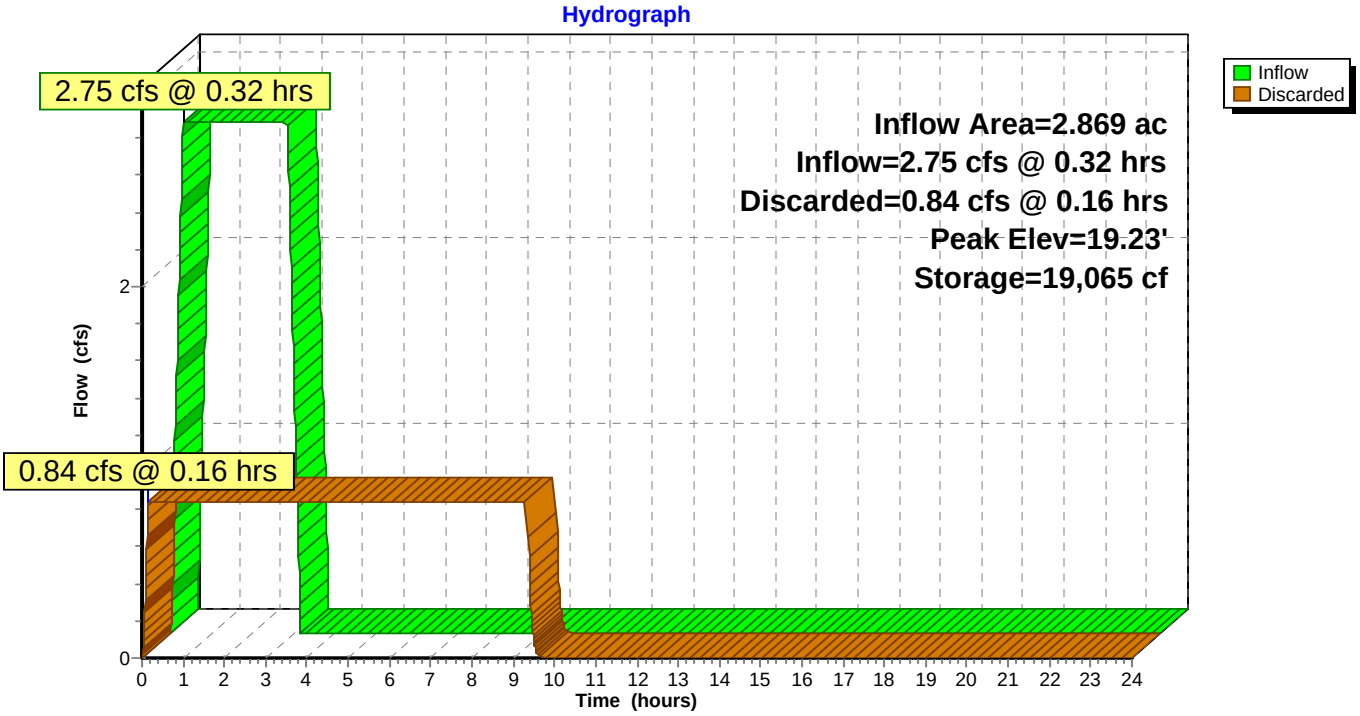
Volume	Invert	Avail.Storage	Storage Description
#1	17.00'	28,343 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
17.00	6,041	0	0
18.00	8,256	7,149	7,149
19.00	10,572	9,414	16,563
20.00	12,988	11,780	28,343

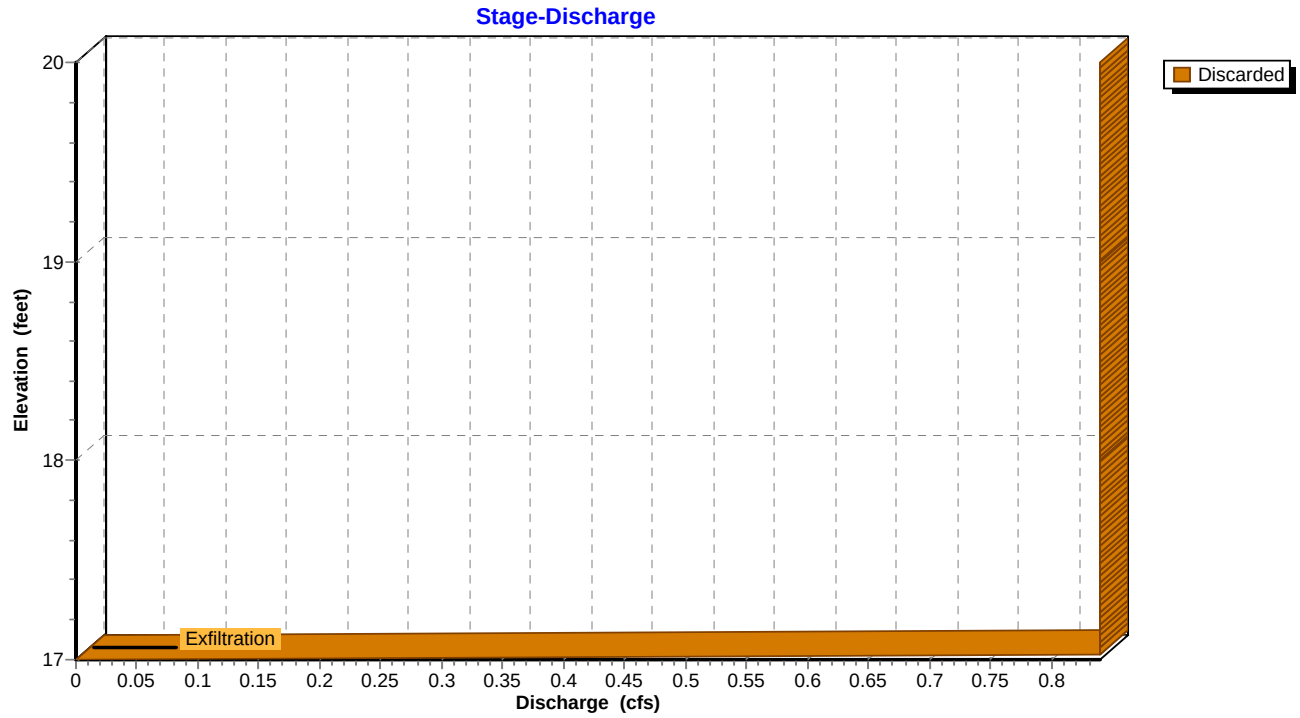
Device	Routing	Invert	Outlet Devices
#1	Discarded	17.00'	**0.84 cfs Exfiltration at all elevations**

Discarded OutFlow Max=0.84 cfs @ 0.16 hrs HW=17.03' (Free Discharge)
1=Exfiltration (Exfiltration Controls 0.84 cfs)

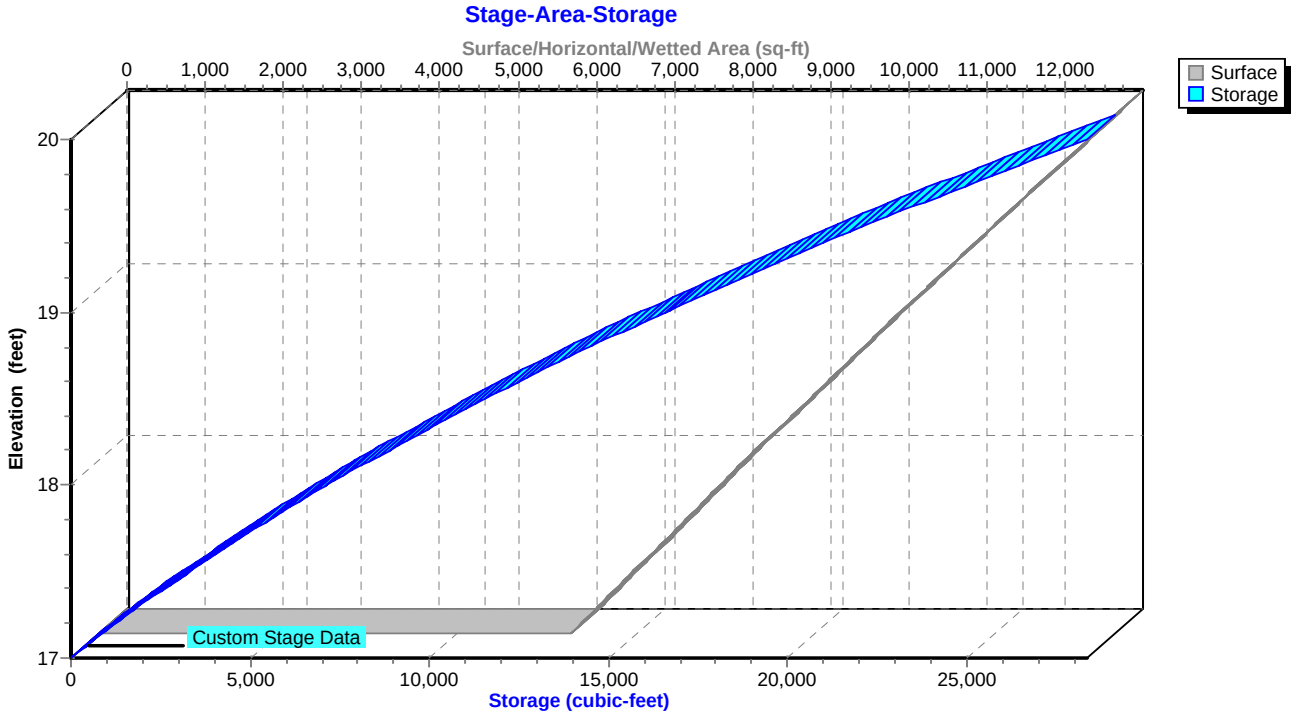
Pond 3C: Pond A (Zero Discharge Dry)



Pond 3C: Pond A (Zero Discharge Dry)



Pond 3C: Pond A (Zero Discharge Dry)



Hydrograph for Pond 3C: Pond A (Zero Discharge Dry)

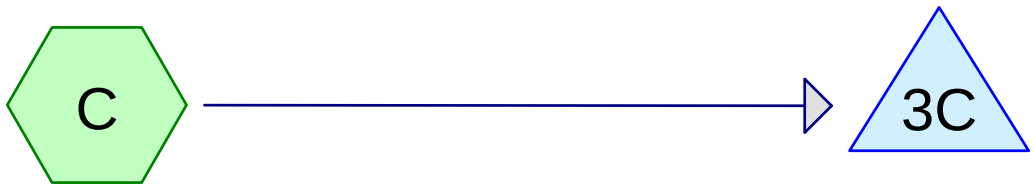
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Discarded (cfs)
0.00	**0.00**	0	17.00	**0.00**
0.50	**2.75**	2,144	17.33	**0.84**
1.00	2.75	5,583	17.81	0.84
1.50	2.75	9,021	18.22	0.84
2.00	2.75	12,460	18.59	0.84
2.50	2.75	15,898	18.94	0.84
3.00	1.45	**18,987**	**19.22**	0.84
3.50	0.00	**17,916**	**19.13**	0.84
4.00	0.00	16,404	18.98	0.84
4.50	0.00	14,892	18.84	0.84
5.00	0.00	13,380	18.69	0.84
5.50	0.00	11,868	18.53	0.84
6.00	0.00	10,356	18.37	0.84
6.50	0.00	8,844	18.20	0.84
7.00	0.00	7,332	18.02	0.84
7.50	0.00	5,820	17.84	0.84
8.00	0.00	4,308	17.64	0.84
8.50	0.00	2,796	17.43	0.84
9.00	0.00	1,284	17.20	0.84
9.50	0.00	19	17.00	0.09
10.00	0.00	0	17.00	0.00
10.50	0.00	0	17.00	0.00
11.00	0.00	0	17.00	0.00
11.50	0.00	0	17.00	0.00
12.00	0.00	0	17.00	0.00
12.50	0.00	0	17.00	0.00
13.00	0.00	0	17.00	0.00
13.50	0.00	0	17.00	0.00
14.00	0.00	0	17.00	0.00
14.50	0.00	0	17.00	0.00
15.00	0.00	0	17.00	0.00
15.50	0.00	0	17.00	0.00
16.00	0.00	0	17.00	0.00
16.50	0.00	0	17.00	0.00
17.00	0.00	0	17.00	0.00
17.50	0.00	0	17.00	0.00
18.00	0.00	0	17.00	0.00
18.50	0.00	0	17.00	0.00
19.00	0.00	0	17.00	0.00
19.50	0.00	0	17.00	0.00
20.00	0.00	0	17.00	0.00
20.50	0.00	0	17.00	0.00
21.00	0.00	0	17.00	0.00
21.50	0.00	0	17.00	0.00
22.00	0.00	0	17.00	0.00
22.50	0.00	0	17.00	0.00
23.00	0.00	0	17.00	0.00
23.50	0.00	0	17.00	0.00
24.00	0.00	0	17.00	0.00

Stage-Discharge for Pond 3C: Pond A (Zero Discharge Dry)

Elevation (feet)	Discarded (cfs)	Elevation (feet)	Discarded (cfs)	Elevation (feet)	Discarded (cfs)
17.00	**0.00**	18.04	0.84	19.08	0.84
17.02	**0.84**	18.06	0.84	19.10	0.84
17.04	0.84	18.08	0.84	19.12	0.84
17.06	0.84	18.10	0.84	19.14	0.84
17.08	0.84	18.12	0.84	19.16	0.84
17.10	0.84	18.14	0.84	19.18	0.84
17.12	0.84	18.16	0.84	19.20	0.84
17.14	0.84	18.18	0.84	19.22	0.84
17.16	0.84	18.20	0.84	19.24	0.84
17.18	0.84	18.22	0.84	19.26	0.84
17.20	0.84	18.24	0.84	19.28	0.84
17.22	0.84	18.26	0.84	19.30	0.84
17.24	0.84	18.28	0.84	19.32	0.84
17.26	0.84	18.30	0.84	19.34	0.84
17.28	0.84	18.32	0.84	19.36	0.84
17.30	0.84	18.34	0.84	19.38	0.84
17.32	0.84	18.36	0.84	19.40	0.84
17.34	0.84	18.38	0.84	19.42	0.84
17.36	0.84	18.40	0.84	19.44	0.84
17.38	0.84	18.42	0.84	19.46	0.84
17.40	0.84	18.44	0.84	19.48	0.84
17.42	0.84	18.46	0.84	19.50	0.84
17.44	0.84	18.48	0.84	19.52	0.84
17.46	0.84	18.50	0.84	19.54	0.84
17.48	0.84	18.52	0.84	19.56	0.84
17.50	0.84	18.54	0.84	19.58	0.84
17.52	0.84	18.56	0.84	19.60	0.84
17.54	0.84	18.58	0.84	19.62	0.84
17.56	0.84	18.60	0.84	19.64	0.84
17.58	0.84	18.62	0.84	19.66	0.84
17.60	0.84	18.64	0.84	19.68	0.84
17.62	0.84	18.66	0.84	19.70	0.84
17.64	0.84	18.68	0.84	19.72	0.84
17.66	0.84	18.70	0.84	19.74	0.84
17.68	0.84	18.72	0.84	19.76	0.84
17.70	0.84	18.74	0.84	19.78	0.84
17.72	0.84	18.76	0.84	19.80	0.84
17.74	0.84	18.78	0.84	19.82	0.84
17.76	0.84	18.80	0.84	19.84	0.84
17.78	0.84	18.82	0.84	19.86	0.84
17.80	0.84	18.84	0.84	19.88	0.84
17.82	0.84	18.86	0.84	19.90	0.84
17.84	0.84	18.88	0.84	19.92	0.84
17.86	0.84	18.90	0.84	19.94	0.84
17.88	0.84	18.92	0.84	19.96	0.84
17.90	0.84	18.94	0.84	19.98	0.84
17.92	0.84	18.96	0.84	20.00	0.84
17.94	0.84	18.98	0.84		
17.96	0.84	19.00	0.84		
17.98	0.84	19.02	0.84		
18.00	0.84	19.04	0.84		
18.02	0.84	19.06	0.84		

Stage-Area-Storage for Pond 3C: Pond A (Zero Discharge Dry)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
17.00	6,041	0
17.05	6,152	305
17.10	6,263	615
17.15	6,373	931
17.20	6,484	1,252
17.25	6,595	1,579
17.30	6,706	1,912
17.35	6,816	2,250
17.40	6,927	2,594
17.45	7,038	2,943
17.50	7,149	3,297
17.55	7,259	3,658
17.60	7,370	4,023
17.65	7,481	4,395
17.70	7,591	4,771
17.75	7,702	5,154
17.80	7,813	5,542
17.85	7,924	5,935
17.90	8,034	6,334
17.95	8,145	6,738
18.00	8,256	7,149
18.05	8,372	7,564
18.10	8,488	7,986
18.15	8,603	8,413
18.20	8,719	8,846
18.25	8,835	9,285
18.30	8,951	9,730
18.35	9,067	10,180
18.40	9,182	10,636
18.45	9,298	11,098
18.50	9,414	11,566
18.55	9,530	12,040
18.60	9,646	12,519
18.65	9,761	13,004
18.70	9,877	13,495
18.75	9,993	13,992
18.80	10,109	14,494
18.85	10,225	15,003
18.90	10,340	15,517
18.95	10,456	16,037
19.00	10,572	16,563
19.05	10,693	17,094
19.10	10,814	17,632
19.15	10,934	18,175
19.20	11,055	18,725
19.25	11,176	19,281
19.30	11,297	19,843
19.35	11,418	20,411
19.40	11,538	20,985
19.45	11,659	21,565
19.50	11,780	22,151
19.55	11,901	22,743
19.60	12,022	23,341
19.65	12,142	23,945
19.70	12,263	24,555
19.75	12,384	25,171
19.80	12,505	25,793
19.85	12,626	26,421
19.90	12,746	27,056
19.95	12,867	27,696
20.00	**12,988**	**28,343**



Destin ES: Pond Basin 100-yr Critical Duration Storm Event

Pond B (Zero Discharge Dry)

Subcat Reach Pond Link

Drainage Diagram for Destin ES_Zero Discharge Pond B
Prepared by {enter your company name here}, Printed 6/2/2025
HydroCAD® 9.10 s/n 03675 © 2011 HydroCAD Software Solutions LLC

Area Listing (all nodes)

Area (acres)	C	Description (subcatchment-numbers)
5.504	0.20	Pervious (C)
2.299	0.90	Proposed Impervious (C)
0.027	1.00	Existing Building(s) (C)
0.791	1.00	Pond (C)
0.964	1.00	Proposed Building (C)
9.585	0.52	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
0.000	HSG D	
9.585	Other	C
9.585		**TOTAL AREA**

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment C: Destin ES: Pond Basin 100-yr Critical Runoff Area=417,535 sf Runoff Depth=4.65"
Tc=16.2 min C=0.52 Runoff=6.37 cfs 3.712 af

Pond 3C: Pond B (Zero Discharge Dry) Peak Elev=16.60' Storage=108,250 cf Inflow=6.37 cfs 3.712 af
Outflow=2.07 cfs 3.712 af

Total Runoff Area = 9.585 ac Runoff Volume = 3.712 af Average Runoff Depth = 4.65"

Summary for Subcatchment C: Destin ES: Pond Basin 100-yr Critical Duration Storm Event

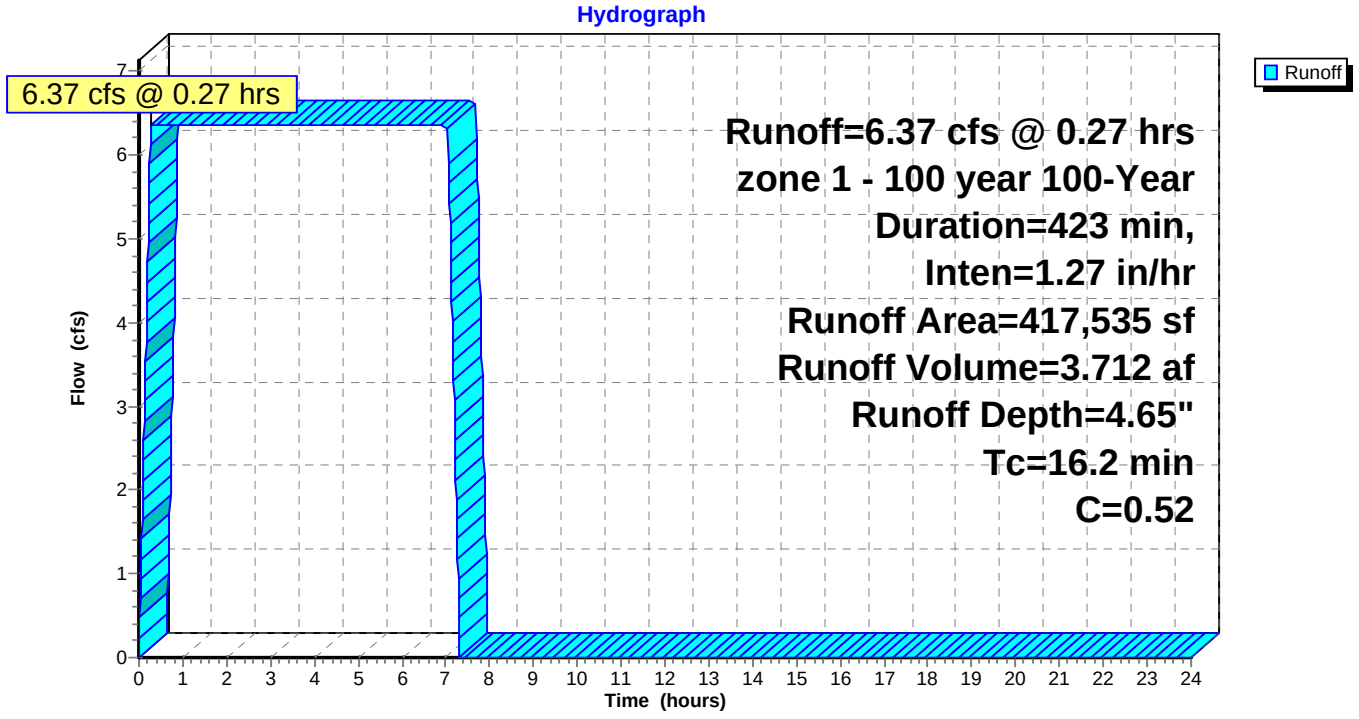
Runoff = 6.37 cfs @ 0.27 hrs, Volume= 3.712 af, Depth= 4.65"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
zone 1 - 100 year 100-Year Duration=423 min, Inten=1.27 in/hr

Area (sf)	C	Description
100,154	0.90	Proposed Impervious
1,170	1.00	Existing Building(s)
41,990	1.00	Proposed Building
34,452	1.00	Pond
239,769	0.20	Pervious
417,535	0.52	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.2					**Direct Entry, HydroCAD Minimum**

Subcatchment C: Destin ES: Pond Basin 100-yr Critical Duration Storm Event



Hydrograph for Subcatchment C: Destin ES: Pond Basin 100-yr Critical Duration Storm Event

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	10.40	0.00	20.80	0.00
0.20	**4.72**	10.60	0.00	21.00	0.00
0.40	**6.37**	10.80	0.00	21.20	0.00
0.60	6.37	11.00	0.00	21.40	0.00
0.80	6.37	11.20	0.00	21.60	0.00
1.00	6.37	11.40	0.00	21.80	0.00
1.20	6.37	11.60	0.00	22.00	0.00
1.40	6.37	11.80	0.00	22.20	0.00
1.60	6.37	12.00	0.00	22.40	0.00
1.80	6.37	12.20	0.00	22.60	0.00
2.00	6.37	12.40	0.00	22.80	0.00
2.20	6.37	12.60	0.00	23.00	0.00
2.40	6.37	12.80	0.00	23.20	0.00
2.60	6.37	13.00	0.00	23.40	0.00
2.80	6.37	13.20	0.00	23.60	0.00
3.00	6.37	13.40	0.00	23.80	0.00
3.20	6.37	13.60	0.00	24.00	0.00
3.40	6.37	13.80	0.00		
3.60	6.37	14.00	0.00		
3.80	6.37	14.20	0.00		
4.00	6.37	14.40	0.00		
4.20	6.37	14.60	0.00		
4.40	6.37	14.80	0.00		
4.60	6.37	15.00	0.00		
4.80	6.37	15.20	0.00		
5.00	6.37	15.40	0.00		
5.20	6.37	15.60	0.00		
5.40	6.37	15.80	0.00		
5.60	6.37	16.00	0.00		
5.80	6.37	16.20	0.00		
6.00	6.37	16.40	0.00		
6.20	6.37	16.60	0.00		
6.40	6.37	16.80	0.00		
6.60	6.37	17.00	0.00		
6.80	6.37	17.20	0.00		
7.00	6.37	17.40	0.00		
7.20	2.83	17.60	0.00		
7.40	0.00	17.80	0.00		
7.60	0.00	18.00	0.00		
7.80	0.00	18.20	0.00		
8.00	0.00	18.40	0.00		
8.20	0.00	18.60	0.00		
8.40	0.00	18.80	0.00		
8.60	0.00	19.00	0.00		
8.80	0.00	19.20	0.00		
9.00	0.00	19.40	0.00		
9.20	0.00	19.60	0.00		
9.40	0.00	19.80	0.00		
9.60	0.00	20.00	0.00		
9.80	0.00	20.20	0.00		
10.00	0.00	20.40	0.00		
10.20	0.00	20.60	0.00		

Summary for Pond 3C: Pond B (Zero Discharge Dry)

Inflow Area = 9.585 ac, Inflow Depth = 4.65" for 100-Year event
Inflow = 6.37 cfs @ 0.27 hrs, Volume= 3.712 af
Outflow = 2.07 cfs @ 0.18 hrs, Volume= 3.712 af, Atten= 68%, Lag= 0.0 min
Discarded = 2.07 cfs @ 0.18 hrs, Volume= 3.712 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Peak Elev= 16.60' @ 7.23 hrs Surf.Area= 32,450 sf Storage= 108,250 cf

Plug-Flow detention time= 437.5 min calculated for 3.710 af (100% of inflow)
Center-of-Mass det. time= 437.7 min (657.3 - 219.6)

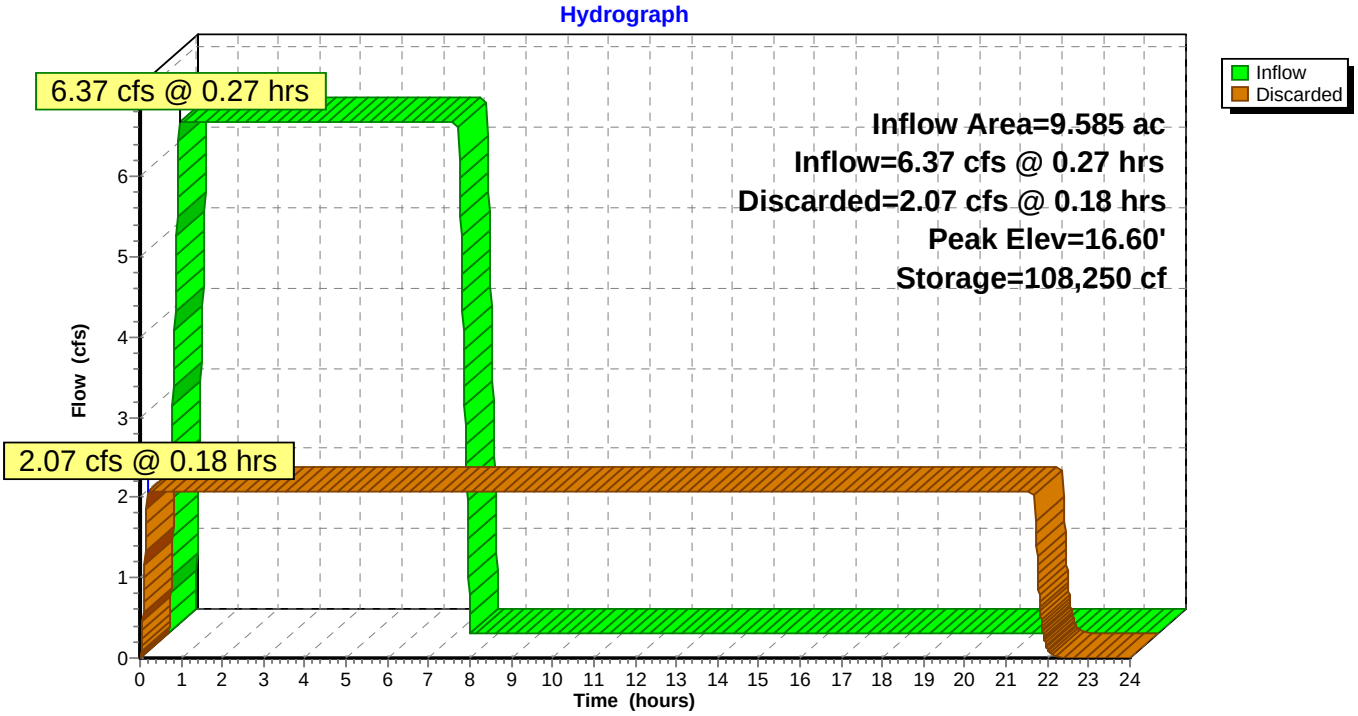
Volume	Invert	Avail.Storage	Storage Description
#1	12.00'	124,832 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
12.00	14,921	0	0
13.00	18,545	16,733	16,733
14.00	22,269	20,407	37,140
15.00	26,093	24,181	61,321
16.00	30,018	28,056	89,377
17.00	34,043	32,031	121,407
17.10	34,452	3,425	124,832

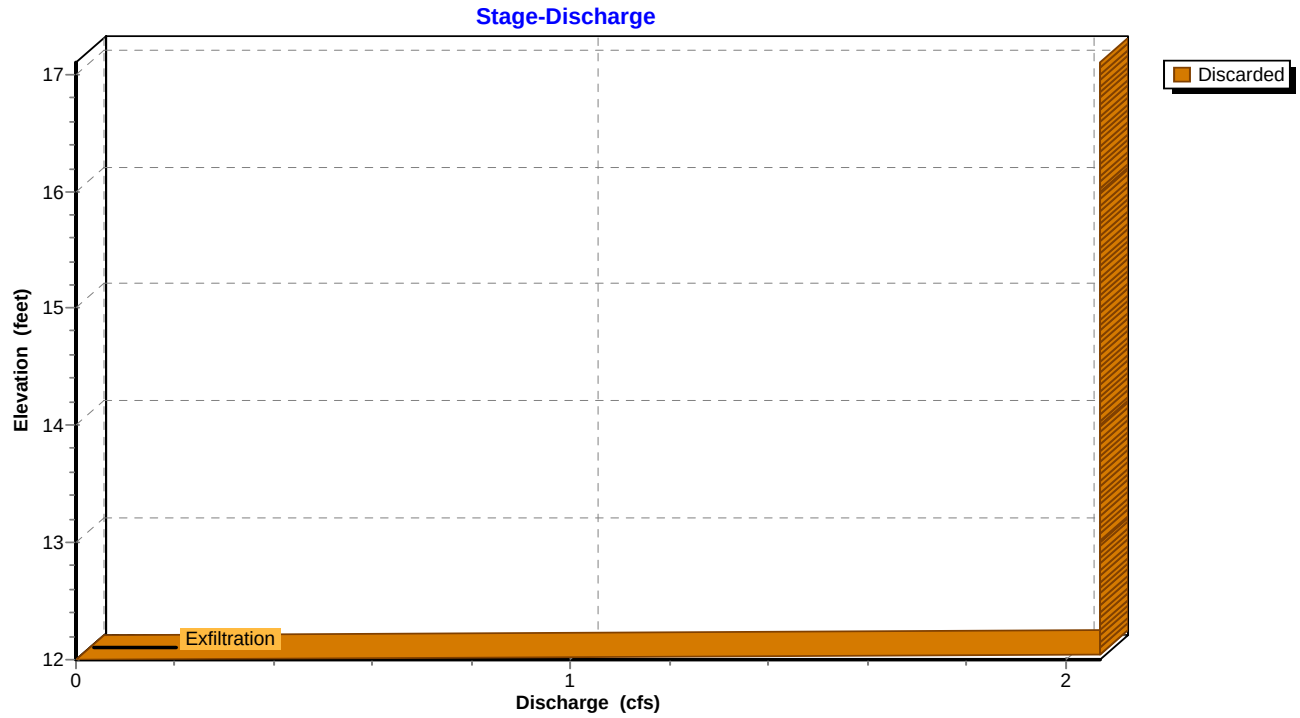
Device	Routing	Invert	Outlet Devices
#1	Discarded	12.00'	**2.07 cfs Exfiltration at all elevations**

Discarded OutFlow Max=2.07 cfs @ 0.18 hrs HW=12.06' (Free Discharge)
1=Exfiltration (Exfiltration Controls 2.07 cfs)

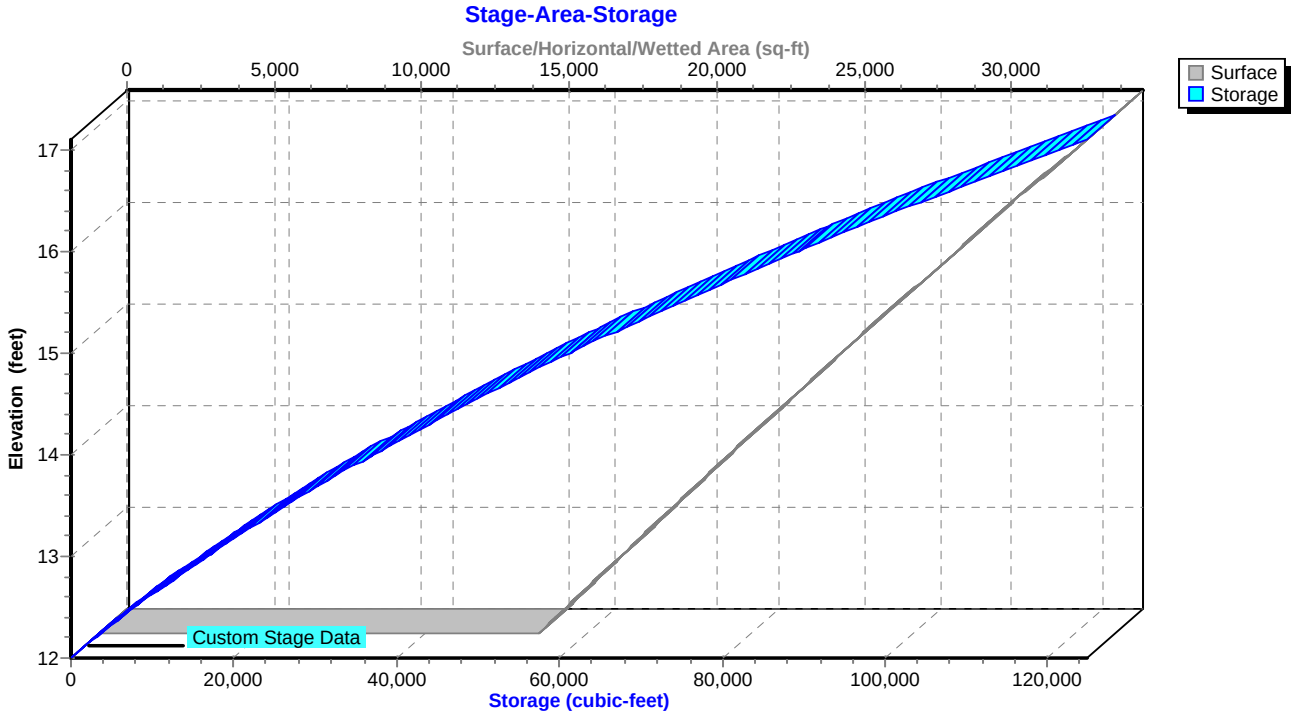
Pond 3C: Pond B (Zero Discharge Dry)



Pond 3C: Pond B (Zero Discharge Dry)



Pond 3C: Pond B (Zero Discharge Dry)



Hydrograph for Pond 3C: Pond B (Zero Discharge Dry)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Discarded (cfs)
0.00	**0.00**	0	12.00	**0.00**
0.50	**6.37**	5,442	12.35	**2.07**
1.00	6.37	13,183	12.80	2.07
1.50	6.37	20,923	13.22	2.07
2.00	6.37	28,663	13.61	2.07
2.50	6.37	36,404	13.97	2.07
3.00	6.37	44,144	14.31	2.07
3.50	6.37	51,884	14.63	2.07
4.00	6.37	59,625	14.93	2.07
4.50	6.37	67,365	15.23	2.07
5.00	6.37	75,105	15.51	2.07
5.50	6.37	82,846	15.78	2.07
6.00	6.37	90,586	16.04	2.07
6.50	6.37	98,326	16.29	2.07
7.00	6.37	**106,066**	**16.54**	2.07
7.50	0.00	**106,583**	**16.55**	2.07
8.00	0.00	102,857	16.44	2.07
8.50	0.00	99,131	16.32	2.07
9.00	0.00	95,405	16.20	2.07
9.50	0.00	91,679	16.08	2.07
10.00	0.00	87,953	15.95	2.07
10.50	0.00	84,227	15.83	2.07
11.00	0.00	80,501	15.70	2.07
11.50	0.00	76,775	15.57	2.07
12.00	0.00	73,049	15.44	2.07
12.50	0.00	69,323	15.30	2.07
13.00	0.00	65,597	15.16	2.07
13.50	0.00	61,871	15.02	2.07
14.00	0.00	58,145	14.88	2.07
14.50	0.00	54,419	14.73	2.07
15.00	0.00	50,693	14.58	2.07
15.50	0.00	46,967	14.43	2.07
16.00	0.00	43,241	14.27	2.07
16.50	0.00	39,515	14.11	2.07
17.00	0.00	35,789	13.94	2.07
17.50	0.00	32,063	13.77	2.07
18.00	0.00	28,337	13.59	2.07
18.50	0.00	24,611	13.41	2.07
19.00	0.00	20,885	13.22	2.07
19.50	0.00	17,159	13.02	2.07
20.00	0.00	13,433	12.82	2.07
20.50	0.00	9,707	12.61	2.07
21.00	0.00	5,981	12.38	2.07
21.50	0.00	2,255	12.15	2.07
22.00	0.00	41	12.00	0.11
22.50	0.00	0	12.00	0.00
23.00	0.00	0	12.00	0.00
23.50	0.00	0	12.00	0.00
24.00	0.00	0	12.00	0.00

Stage-Discharge for Pond 3C: Pond B (Zero Discharge Dry)

Elevation (feet)	Discarded (cfs)	Elevation (feet)	Discarded (cfs)	Elevation (feet)	Discarded (cfs)
12.00	**0.00**	14.08	2.07	16.16	2.07
12.04	**2.07**	14.12	2.07	16.20	2.07
12.08	2.07	14.16	2.07	16.24	2.07
12.12	2.07	14.20	2.07	16.28	2.07
12.16	2.07	14.24	2.07	16.32	2.07
12.20	2.07	14.28	2.07	16.36	2.07
12.24	2.07	14.32	2.07	16.40	2.07
12.28	2.07	14.36	2.07	16.44	2.07
12.32	2.07	14.40	2.07	16.48	2.07
12.36	2.07	14.44	2.07	16.52	2.07
12.40	2.07	14.48	2.07	16.56	2.07
12.44	2.07	14.52	2.07	16.60	2.07
12.48	2.07	14.56	2.07	16.64	2.07
12.52	2.07	14.60	2.07	16.68	2.07
12.56	2.07	14.64	2.07	16.72	2.07
12.60	2.07	14.68	2.07	16.76	2.07
12.64	2.07	14.72	2.07	16.80	2.07
12.68	2.07	14.76	2.07	16.84	2.07
12.72	2.07	14.80	2.07	16.88	2.07
12.76	2.07	14.84	2.07	16.92	2.07
12.80	2.07	14.88	2.07	16.96	2.07
12.84	2.07	14.92	2.07	17.00	2.07
12.88	2.07	14.96	2.07	17.04	2.07
12.92	2.07	15.00	2.07	17.08	2.07
12.96	2.07	15.04	2.07		
13.00	2.07	15.08	2.07		
13.04	2.07	15.12	2.07		
13.08	2.07	15.16	2.07		
13.12	2.07	15.20	2.07		
13.16	2.07	15.24	2.07		
13.20	2.07	15.28	2.07		
13.24	2.07	15.32	2.07		
13.28	2.07	15.36	2.07		
13.32	2.07	15.40	2.07		
13.36	2.07	15.44	2.07		
13.40	2.07	15.48	2.07		
13.44	2.07	15.52	2.07		
13.48	2.07	15.56	2.07		
13.52	2.07	15.60	2.07		
13.56	2.07	15.64	2.07		
13.60	2.07	15.68	2.07		
13.64	2.07	15.72	2.07		
13.68	2.07	15.76	2.07		
13.72	2.07	15.80	2.07		
13.76	2.07	15.84	2.07		
13.80	2.07	15.88	2.07		
13.84	2.07	15.92	2.07		
13.88	2.07	15.96	2.07		
13.92	2.07	16.00	2.07		
13.96	2.07	16.04	2.07		
14.00	2.07	16.08	2.07		
14.04	2.07	16.12	2.07		

Stage-Area-Storage for Pond 3C: Pond B (Zero Discharge Dry)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
12.00	14,921	0
12.10	15,283	1,510
12.20	15,646	3,057
12.30	16,008	4,639
12.40	16,371	6,258
12.50	16,733	7,914
12.60	17,095	9,605
12.70	17,458	11,333
12.80	17,820	13,096
12.90	18,183	14,897
13.00	18,545	16,733
13.10	18,917	18,606
13.20	19,290	20,516
13.30	19,662	22,464
13.40	20,035	24,449
13.50	20,407	26,471
13.60	20,779	28,530
13.70	21,152	30,627
13.80	21,524	32,761
13.90	21,897	34,932
14.00	22,269	37,140
14.10	22,651	39,386
14.20	23,034	41,670
14.30	23,416	43,993
14.40	23,799	46,354
14.50	24,181	48,753
14.60	24,563	51,190
14.70	24,946	53,665
14.80	25,328	56,179
14.90	25,711	58,731
15.00	26,093	61,321
15.10	26,486	63,950
15.20	26,878	66,618
15.30	27,271	69,326
15.40	27,663	72,072
15.50	28,056	74,858
15.60	28,448	77,683
15.70	28,840	80,548
15.80	29,233	83,451
15.90	29,626	86,394
16.00	30,018	89,377
16.10	30,421	92,398
16.20	30,823	95,461
16.30	31,226	98,563
16.40	31,628	101,706
16.50	32,031	104,889
16.60	32,433	108,112
16.70	32,836	111,375
16.80	33,238	114,679
16.90	33,640	118,023
17.00	34,043	121,407
17.10	**34,452**	**124,832**

DESTIN ELEMENTARY

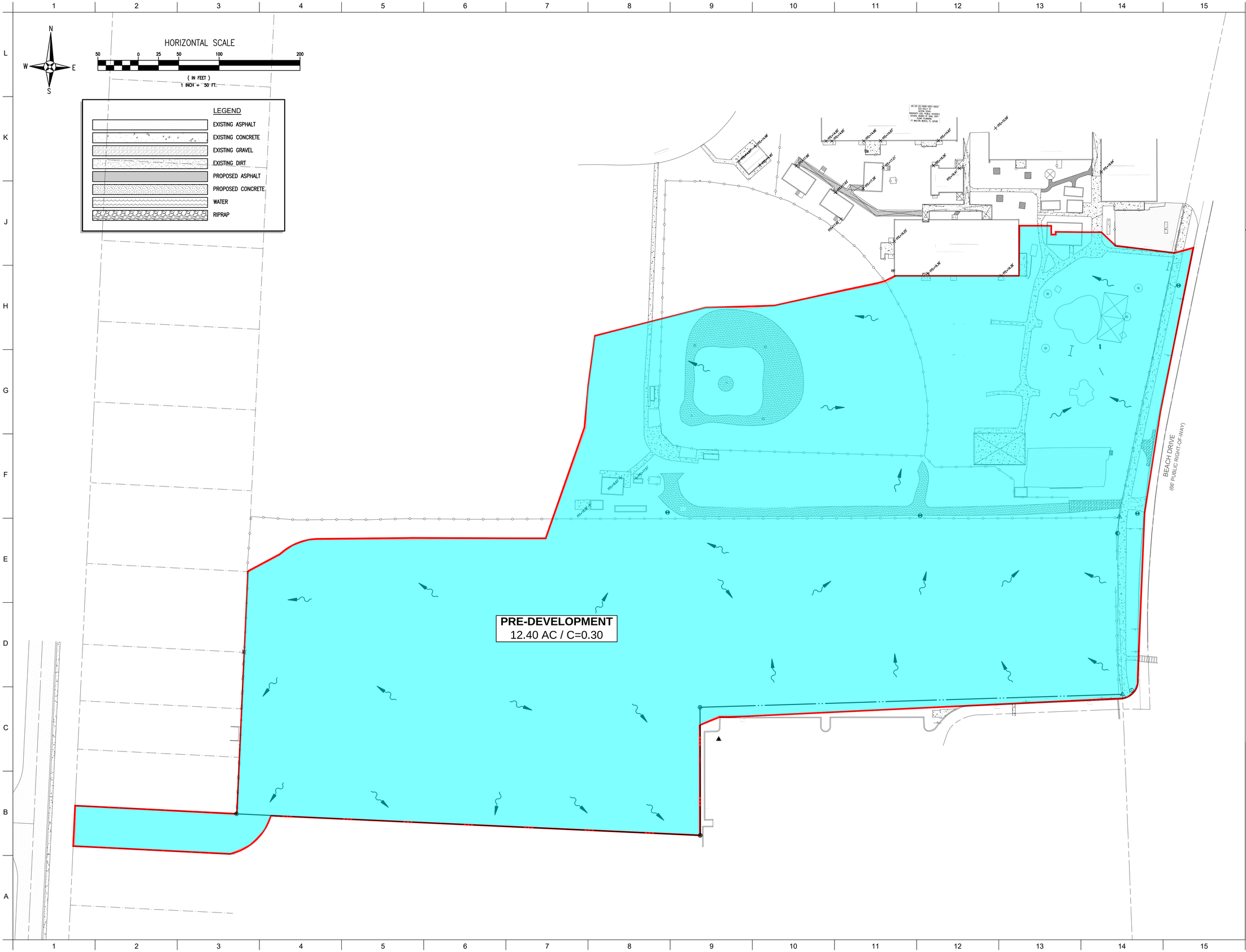
Sub-Basin Area/Time of Concentration/Gutter/Inlet Calculations

Area Description	Area size *(acres)	Weighted C (basin)	*Time of Conc. (hrs)	Time of Conc. (min)	100 Year Intensity (in/hr)	Peak Flow from Basin (cfs)	Total Flow Contributing to Inlet (cfs)	Recieving Inlet	Receiving Inlet Type	Bypass Flow	Inlet to Receive Bypass Flow	Flow Captured by Inlet (cfs)
INLET 001	0.068	0.95	0.17	10.0	8.10	0.52	0.52	INLET 001				0.52
INLET 002	0.078	0.95	0.17	10.0	8.10	0.60	0.60	INLET 002				0.60
INLET 003	0.065	0.95	0.17	10.0	8.10	0.50	0.50	INLET 003	A	N/A (INLET IN SAG)		0.50
INLET 004	0.065	0.95	0.17	10.0	8.10	0.50	0.50	INLET 004				0.50
INLET 005	0.070	0.95	0.17	10.0	8.10	0.54	0.54	INLET 005				0.54
INLET 006	0.067	0.95	0.17	10.0	8.10	0.52	0.52	INLET 006				0.52
INLET 007	0.083	0.95	0.17	10.0	8.10	0.64	0.64	INLET 007	A	0.00	INLET 030	0.64
INLET 008	0.080	0.95	0.17	10.0	8.10	0.62	0.62	INLET 008		0.00	INLET 015	0.62
INLET 009	0.383	0.56	0.17	10.0	8.10	1.72	1.72	INLET 009				1.72
INLET 010	0.213	0.33	0.17	10.0	8.10	0.57	0.57	INLET 010				0.57
INLET 011	0.195	0.26	0.17	10.0	8.10	0.42	0.42	INLET 011				0.42
INLET 012	0.238	0.28	0.17	10.0	8.10	0.54	0.54	INLET 012				0.54
INLET 013	0.777	0.26	0.17	10.0	8.10	1.64	1.64	INLET 013	D			1.64
INLET 014	0.094	0.80	0.17	10.0	8.10	0.61	0.61	INLET 014				0.61
INLET 015	0.109	0.89	0.17	10.0	8.10	0.79	0.79	INLET 015				0.79
INLET 016	0.245	0.76	0.17	10.0	8.10	1.50	1.50	INLET 016				1.50
INLET 017	0.271	0.77	0.17	10.0	8.10	1.69	1.69	INLET 017				1.69
INLET 018	0.194	0.83	0.17	10.0	8.10	1.30	1.30	INLET 018	A			1.30
INLET 019	0.400	0.56	0.17	10.0	8.10	1.80	1.80	INLET 019	D			1.80
INLET 020	0.367	0.69	0.17	10.0	8.10	2.06	2.06	INLET 020	A			2.06
INLET 021	0.176	0.86	0.17	10.0	8.10	1.23	1.23	INLET 021	D			1.23
INLET 022	0.151	0.87	0.17	10.0	8.10	1.06	1.06	INLET 022				1.06
INLET 023	0.326	0.64	0.17	10.0	8.10	1.70	1.70	INLET 023	A			1.70
INLET 024	0.177	0.85	0.17	10.0	8.10	1.23	1.23	INLET 024	D			1.23
INLET 025	0.191	0.83	0.17	10.0	8.10	1.28	1.28	INLET 025				1.28
INLET 030	0.197	0.83	0.17	10.0	8.10	1.32	1.32	INLET 030	A			1.32
INLET 031	0.166	0.81	0.17	10.0	8.10	1.09	1.09	INLET 031				1.09
BUILDING 1A	0.156	1.00	0.17	10.0	8.10	1.27	1.27	RL1				1.27
BUILDING 1B	0.180	1.00	0.17	10.0	8.10	1.46	1.46	RL2	ROOF LEADER			1.46
BUILDING 1C	0.171	1.00	0.17	10.0	8.10	1.39	1.39	RL3				1.39
BUILDING 1D	0.188	1.00	0.17	10.0	8.10	1.52	1.52	RL4				1.52
BUILDING 1E	0.075	1.00	0.17	10.0	8.10	0.61	0.61	INLET 017	D	N/A (INLET IN SAG)		0.61
BUILDING 1F	0.067	1.00	0.17	10.0	8.10	0.54	0.54	INLET 016	D			0.54
BUILDING 2	0.063	1.00	0.17	10.0	8.10	0.51	0.51	RL5	ROOF LEADER			0.51

* See attached Time of concentration calcs
** See attached Gutter/Inlet Calculations

Pipe Capacity Calculations

Pipe Description	Recieves Flow From	Pipe Flow Required (cumulative)	Pipe Size Required	Pipe Size Used (ft)	Pipe slope(%)	Full Flow Velocity (ft/s)	Pipe Length (LF)	Capacity
PD 001	INLET 001	0.52	0.45	1.5	0.89	0.30	28	29.96%
PD 002	INLET 002; PD 001	1.12	0.66	1.5	0.52	0.64	145	44.16%
PD 003	INLET 003	1.72	0.70	1.5	0.89	0.98	28	46.87%
PD 004	INLET 004; PD 003	2.22	0.68	1.5	1.74	1.26	43	45.49%
PD 005	INLET 005	0.54	0.45	1.5	0.89	0.30	28	30.27%
PD 006	INLET 006; PD 005	1.06	0.52	1.5	1.74	0.60	43	34.39%
PD 007	INLET 007	0.64	0.48	1.5	0.89	0.36	28	32.27%
PD 008	INLET 008; PD 007	1.25	0.43	1.5	6.43	0.71	70	28.72%
PD 009	INLET 009	1.72	0.72	1.3	0.78	1.24	64	54.18%
PD 010	INLET 010; PD 009	2.29	0.87	1.3	0.49	1.73	102	67.29%
PD 011	INLET 011; PD 010	2.71	0.99	1.5	0.35	1.53	144	66.12%
PD 012	INLET 012; PD 011; RL 1	4.51	1.15	1.5	0.45	2.55	112	76.41%
PD 013	INLET 013; PD 012	6.15	1.34	1.5	0.37	3.48	67	89.04%
PD 014	INLET 014; PD 013	6.76	1.29	1.5	0.53	3.83	95	86.26%
PD 015	INLET 015; PD 008; PD 014; PD 025	15.74	2.02	2.5	0.27	3.21	92	80.61%
PD 016	INLET 016; BLDG 1F; RL 5	2.55	0.83	1.5	0.78	1.44	128	55.67%
PD 017	INLET 017; PD 016; BLDG 1E	4.85	1.09	1.5	0.68	2.75	74	72.67%
PD 018	INLET 018; PD 017	6.15	1.08	2	1.14	1.96	88	54.06%
PD 019	INLET 019; PD 018; PD 022	13.82	1.78	2.5	0.4	2.82	126	71.33%
PD 020	INLET 020; RL 4	3.59	0.83	1.5	1.54	2.03	65	55.66%
PD 021	INLET 021	1.23	0.57	1.5	1.33	0.70	94	38.28%
PD 022	INLET 022; PD 020; PD 021	5.87	1.04	1.5	1.25	3.32	80	69.65%
PD 023	INLET 023; RL2	4.42	0.91	1.5	1.47	2.50	68	60.75%
PD 024	INLET 024	1.23	0.57	1.5	1.33	0.69	94	38.27%
PD 025	INLET 025; PD 023; PD 024	6.94	1.03	1.5	1.86	3.92	94	68.81%
PD 030	INLET 030	1.32	0.53	1.5	2.33	0.75	43	35.40%
PD 031	INLET 031	1.09	0.49	1.5	2.33	0.62	43	32.97%
RL 1	BUILDING 1A	1.27	0.61	0.83	1.00	2.34	180	73.86%
RL 2	BUILDING 1B; RL 3	2.73	0.82	0.83	1.00	5.04	157	98.44%
RL 3	BUILDING 1C	1.39	0.63	0.83	1.00	2.57	163	76.43%
RL 4	BUILDING 1D	1.52	0.66	0.83	1.00	2.82	96	79.13%
RL 5	BUILDING 2	0.51	0.44	0.83	1.00	0.94	330	52.45%



Jacobs | TITAN TECHNOLOGIES

4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.
312 South Alcaniz Street Pensacola, Florida 32502
Florida Lic. No. C001942

RBA
REBOL-BATTLE & ASSOCIATES
Civil Engineers and Surveyors
2301 N. Ninth Avenue, Suite 300
Pensacola, Florida 32503
Telephone 850.438.0400 Fax 850.438.0448
EB 00009657 LB7916

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

Seal:

Project No..83X98735

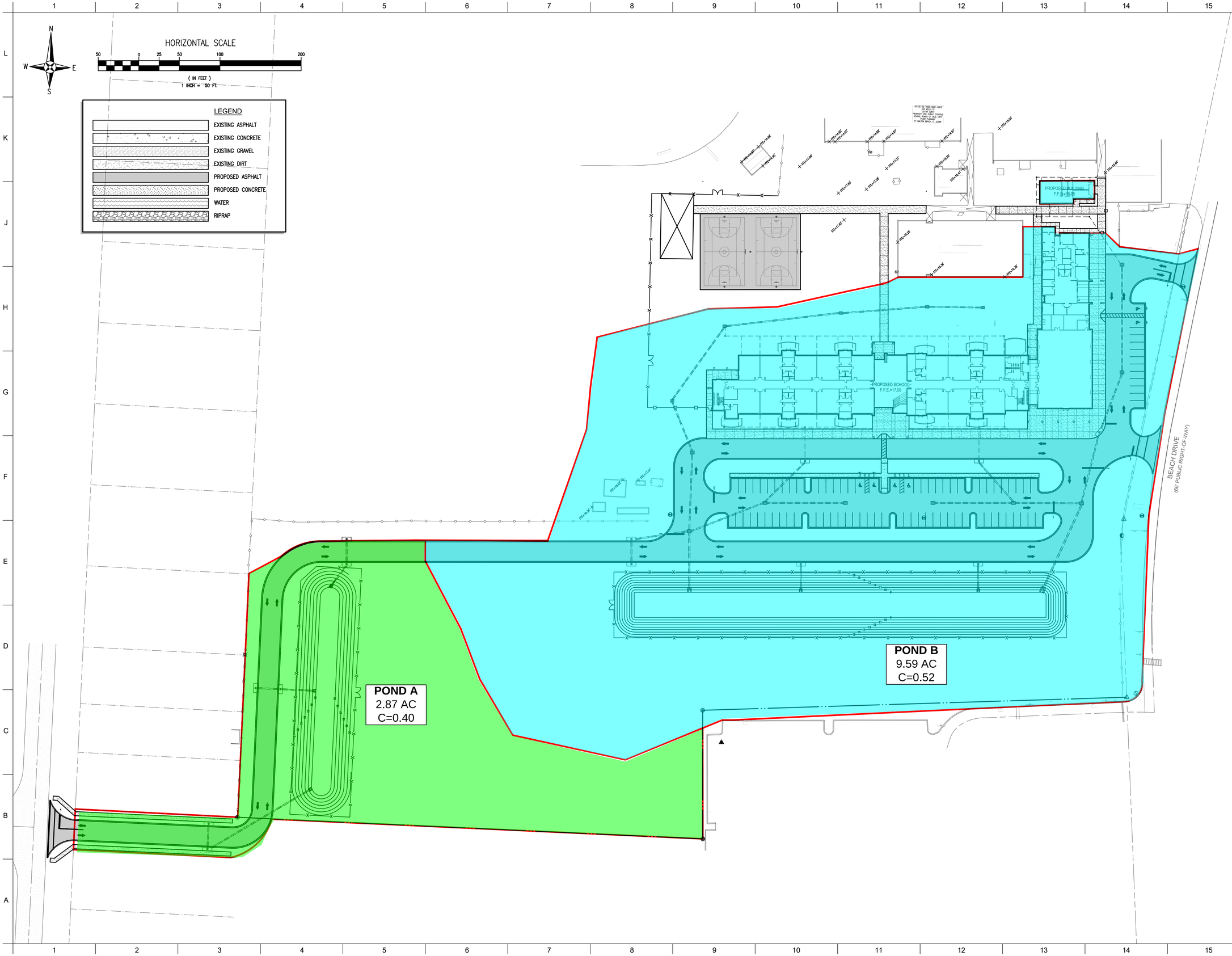
Drawing Title:

PRE-DEVELOPMENT BASIN MAP

Date: 03 SEPTEMBER 2024

Designed By: JRR
Drawn By: CBD
Checked By: RAB

Drawing No.:
EXHIBIT



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Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

Seal:

Project No.: 83X98735

Drawing Title:

POST-DEVELOPMENT POND BASIN MAP

Date: 03 SEPTEMBER 2024

Designed By: JRR
Drawn By: CBD
Checked By: RAB

Drawing No.:
EXHIBIT

HORIZONTAL SCALE

30 0 15 30 60 120

(IN FEET)
1 INCH = 30 FT.

LEGEND

- EXISTING ASPHALT
- EXISTING CONCRETE
- EXISTING GRAVEL
- EXISTING DIRT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- WATER
- RIPRAP

INLET 005
0.07 AC
C=0.95

INLET 006
0.07 AC
C=0.95

INLET 004
0.07 AC / C=0.95

INLET 003
0.07 AC / C=0.95

INLET 001
0.07 AC / C=0.95

INLET 002
0.08 AC/C=0.95

POND A
1.51 AC
C=0.40

COMPENSATORY
1.21 AC
C=0.30

ONE STORY BLOCK BUILDING

RW

M.E. ±19.60

M.E. ±19.60

Jacobs | TITAN TECHNOLOGIES

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2301 N. Ninth Avenue, Suite 300
Pensacola, Florida 32503
Telephone 850.438.0400 Fax 850.438.0448
EB 00009657 LB7916

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL 3/4/5 CENTER

Destin, Florida

Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

Project No.: 83X98735

Drawing Title:

POND A
SUB-BASIN MAP

Date: 03 SEPTEMBER 2024

Designed By: JRR
Drawn By: CBD
Checked By: RAB

Drawing No.:
EXHIBIT

HORIZONTAL SCALE

40 0 2 40 80 160

(IN FEET)
1 INCH = 40 FT.

LEGEND

- EXISTING ASPHALT
- EXISTING CONCRETE
- EXISTING GRAVEL
- EXISTING DIRT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- WATER
- RIPRAP

BUILDING 2
0.06 AC / C=1.00

BUILDING 1F
0.07 AC / C=1.00

INLET 010
0.21 AC / C=0.33

INLET 011
0.20 AC / C=0.26

INLET 016
0.25 AC / C=0.76

INLET 009
0.38 AC / C=0.56

INLET 012
0.24 AC / C=0.28

INLET 017
0.27 AC / C=0.77

BUILDING 1A
0.16 AC / C=1.00

BUILDING 1C
0.17 AC / C=1.00

BUILDING 1E
0.08 AC / C=1.00

BUILDING 1B
0.18 AC / C=1.00

BUILDING 1D
0.19 AC / C=1.00

INLET 013
0.78 AC / C=0.26

INLET 023
0.33 AC / C=0.64

INLET 020
0.37 AC / C=0.69

INLET 018
0.19 AC / C=0.83

INLET 014
0.09 AC / C=0.80

INLET 021
0.18 AC / C=0.86

INLET 019
0.40 AC / C=0.56

INLET 015
0.11 AC / C=0.89

INLET 025
0.19 AC / C=0.83

INLET 024
0.18 AC / C=0.85

INLET 022
0.15 AC / C=0.87

INLET 008
0.08 AC / C=0.95

INLET 030
0.20 AC / C=0.83

INLET 031
0.17 AC / C=0.81

INLET 007
0.08 AC / C=0.95

POND B
3.72 AC / C=0.46

PROPOSED BUILDING
F.F.E.=16.75

PROPOSED SCHOOL
F.F.E.=17.00

ONE STORY
BLOCK BUILDING

BEACH DRIVE
(66' PUBLIC RIGHT-OF-WAY)

00-2S-22-0000-0071-0000
401 BEACH DR
DESTIN 32541
PROPERTY USE:VACANT
LEGACY LIFESTYLES DESTIN PROP
C/O ZEIFMAN PARTNERS INC
TORONTO,

00-2S-22-0000-0001-0000
DESTIN
32541
PROPERTY USE: PUBLIC SCHOOLS
SCHOOL BOARD OF OKAL CNTY
PLANT PLANNING
FT WALTON BEACH, FL 32548

Jacobs | TITAN TECHNOLOGIES

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EB 00009657 LB7916

Revision:

Date:	By:	Description:

DESTIN ELEMENTARY SCHOOL
3/4/5 CENTER
Destin, Florida
Okaloosa County School District
Okaloosa County, Florida

OKALOOSA COUNTY SCHOOL DISTRICT

Seal:

Project No. 83X98735

Drawing Title:

POND B
SUB-BASIN MAP

Date: 03 SEPTEMBER 2024

Designed By: JRR
Drawn By: CBD
Checked By: RAB

Drawing No.:
EXHIBIT

Community Development
Planning and Zoning Division

4100 Indian Bayou Trail | Destin, FL 32541 | Phone: 850-654-1119 | Email: planning@cityofdestin.com

June 9, 2025

Subject: Notification of Development Project: 630 Kelly Street; 401 Beach Drive; and the Northwest Corner of 307 Beach Drive
Major Development Order – Destin Elementary School Addition
City of Destin Project Number: DEV-001522-2025

Dear Property Owner:

The purpose of this letter is to notify you that the Planning Division has received an application for a Major Development Order. As an owner of property located within 300 feet of this project, ***Article 2.17.00 of the Destin Land Development Code (LDC)*** requires a written notice providing you the following information.

This notice is for informational purposes only and no action is required of you. However, citizens are encouraged to provide any comments to the email address provided below.

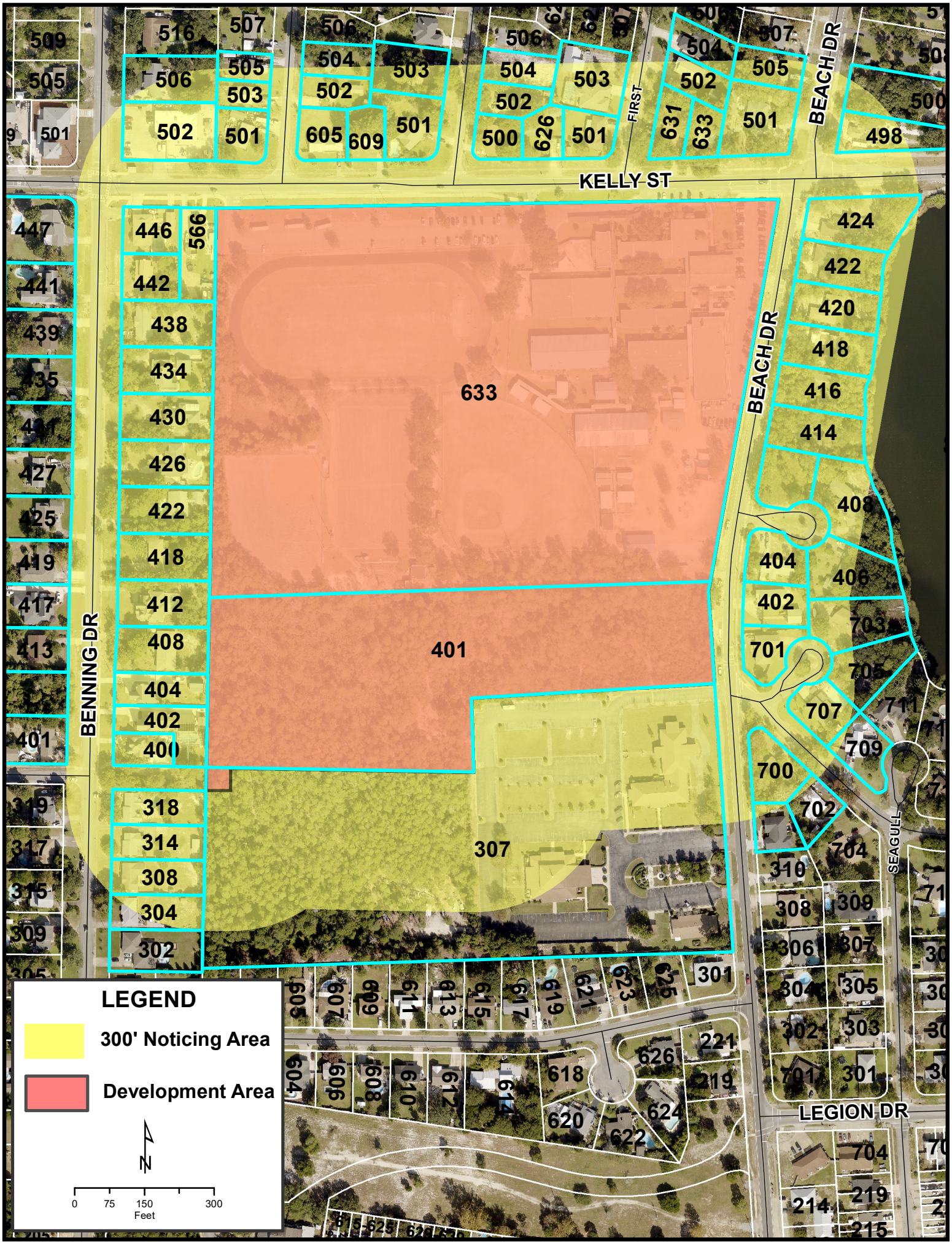
1. Name of Owner: School Board of Okaloosa County
2. Name of Agent: Dustin Merritt of Jacobs / Titan Total Program Management
3. Address of Project: 630 Kelly Street, 401 Beach Drive, and the NW Corner of 307 Beach Drive.
4. Parcel ID Number: 00-2S-22-0000-0001-00C0, 00-2S-22-0000-0071-0000, 00-2S-22-0000-0001-000A
5. Project Description: Addition of 75,000 square feet of classroom, multipurpose, and office space. A new parking lot with ingress and egress on Beach Drive and Benning Drive along with expanded stormwater retention facilities.
6. Location Map: Please refer to the back of this letter.
7. Location of Application Package: To request a digital copy of the application package be sent to you, please call the City Clerk at (850) 837-4242 or fill out a public records request online: http://www.cityofdestin.com/forms.aspx?fid=121

If you have any questions, please do not hesitate to call (850) 654-1119 or email planning@cityofdestin.com.

Sincerely,

Jesse Hernandz
Planner

Cc: David Prichard, Community Development Director
Planning Division
Project File


KELLY ST
BEACH DR
BENNING DR
FIRST
SEAGULL
LEGION DR
633
401
307
LEGEND
300' Noticing Area
Development Area
N
0
75
150
300
Feet

AFFIDAVIT
POSTING OF PROPERTY

BEFORE ME, the undersigned authority, personally appeared: Logan Martin,

the owner and/or authorized agent of the following described property: Destin Elementary School

DEV-001522-2025 -who deposes and says as follows:

1. That the subject site described above has a sign posted by the owner and/or authorized agent for the owner, notifying the public of the development activity, city project number, and authorized agent and phone number.
2. That the posted sign meets the dimensional requirements set by the City.
3. That the posted sign was placed and will be maintained upon the property in the correct location and not less than fourteen (14) days from the date of the City's Completeness Letter.
4. That a photo of the sign depicting the location of the sign in relation to the road right-of-way is attached.
5. This affidavit will be forwarded to the City's Planning Division no later than seven (7) working days from the posting of the sign.

I have completed the said requirements as described in the City of Destin Land Development Code.

Signed Name of Owner/Agent

Logan Martin
Printed Name of Owner/Agent

STATE OF Florida
COUNTY OF Okaloosa

The foregoing instrument was acknowledged before me by means of physical presence ✓ or online notarization __, this 6 day of August, 2025,

By: Handan Navage
(Print name)

Personally known X OR Produced Identification _____

Notary Signature

Seal:

HANDAN NAVAGE
Notary Public - State of Florida
Commission # HH 452112
My Comm. Expires Oct 8, 2027
Bonded through National Notary Assn.


City of Destin
Public Notice
for
Proposed Development
Major Development
Project: Dev-001522-2025
Authorized Agent:
Jacobs/Titan, A Joint Venture
Agent's Phone Number:
(850)737-4501
Project Plans can be
requested via the City Clerk at
(850)837-4242, or at
www.cityofdestin.com
CONSTRUCTION
SITE
KEEP OUT
F.S.810.011


City of Destin
Public Notice
for
Proposed Development
Major Development
Project: Dev-001522-2025
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Jacobs/Titan, A Joint Venture
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DESTIN WATER USERS INC.

P.O. BOX 308 DESTIN, FL. 32540-0308 (850)-837-6146

DATE: 8/22/2025

TO: THE CITY OF DESTIN – COMMUNITY DEVELOPMENT
4200 TWO TREES ROAD
DESTIN, FLORIDA 32541

PROJECT: Destin Elementary School Expansion

PROJECT NUMBER: DEV-001522-2025

CONTACT: Jesse Hernandez

LOCATION: 4100 Indian Bayou Trail Destin, Fl. 32541

[NA] **PROJECT QUESTIONNAIRE WAS COMPLETED AND RETURNED TO DESTIN WATER USERS.**

THIS LETTER CERTIFIES THAT THIS PROJECT HAS BEEN REVIEWED BY DESTIN WATER USERS INC. AT A TECHNICAL REVIEW COMMITTEE MEETING AND IS CONCEPTUALLY:

X APPROVED

(Subject to the following, which shall be a condition of the Developmental Order with the City of Destin)

1. *ALL REVISIONS TO THE WATER AND/OR SEWER UTILITIES OF ANY PREVIOUSLY APPROVED PROJECT MUST BE REAPPROVED BY DESTIN WATER USERS, INC. IN WRITING AT LEAST 24 HOURS PRIOR TO IMPLEMENTATION.*
2. ***FIELD VERIFIED AND SCALED "AS-BUILT" PLANS INCLUDING ALL UTILITY INFRASTRUCTURES MUST BE SUBMITTED TO THE CITY OF DESTIN AND FORWARDED TO DESTIN WATER USERS, INC. FOR FINAL INSPECTION BY DESTIN WATER USERS, INC. A WRITTEN APPROVAL SHALL THEN BE SUBMITTED TO THE CITY OF DESTIN PRIOR TO THE ISSUANCE OF CERTIFICATE OF OCCUPANCY BY THE CITY OF DESTIN IF THERE ARE NO OUTSTANDING ISSUES.***
3. DWU HAS NO ISSUES WITH THESE ADDITIONS/CHANGES TO THE PLAN.
   a.
   b.
   c.

IF YOU HAVE QUESTIONS OR CONCERNS, PLEASE CONTACT MONICA WALLIS AT mwallis@dwuinc.com OR 850-837-6146 EXT. 3945 OR BY FAX AT 850-654-5173

Signed

DESTIN WATER USERS INC.

P.O. BOX 308 DESTIN, FL. 32540-0308 (850)-837-6146

DATE: 8/22/2025

TO: THE CITY OF DESTIN – COMMUNITY DEVELOPMENT
4200 TWO TREES ROAD
DESTIN, FLORIDA 32541

PROJECT: Destin Elementary School Expansion

PROJECT NUMBER: DEV-001522-2025

CONTACT: Jesse Hernandez

LOCATION: 4100 Indian Bayou Trail Destin, Fl. 32541

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   a.
   b.
   c.

IF YOU HAVE QUESTIONS OR CONCERNS, PLEASE CONTACT MONICA WALLIS AT mwallis@dwuinc.com OR 850-837-6146 EXT. 3945 OR BY FAX AT 850-654-5173

Signed

Community Development Department

Office of the Director

4100 Indian Bayou Trail | Destin, FL 32541 | Phone: 850-654-1119| Email: planning@cityofdestin.com

October 21, 2025 **Development Order No. 25-20**

Final Development Order:

DESTIN ELEMENTARY SCHOOL ADDITION
A MAJOR DEVELOPMENT ORDER
(DEV-001522-2025)

Based upon the City's approval and issuance of this Development Order on October 21, 2025, this document will serve as the Final Development Order for the proposed subject project(s), and includes all of the provisions and conditions in the attached Technical Review Committee Report.

The Okaloosa County School Board is requesting approval for a major development. The development plan includes the construction of an additional two institutional buildings, totaling approximately 75,000 square feet of classrooms, offices, and a teachers' lounge. This project will include stormwater improvements, additional parking, and an additional ingress and egress from school grounds to include access from Benning Drive. This approved Development Order is for the property located and described below:

633 Kelly Street
Destin, FL 32541
Parcel ID: 00-2S-22-0000-0001-00C0 & 00-2S-22-0000-0071-0000

DETERMINATIONS:

1. This final development order is in accordance with the approved construction documents, which is inclusive of the Technical Review Committee Report (Exhibit A), Destin Water Users (DWU) approval (Exhibit B), Okaloosa Gas Approval with Conditions (Exhibit C) and Approved Civil Plans (Exhibit D) dated approved October 21, 2025.

2. All the findings and requirements of the Technical Review Committee Report are incorporated herein.

3. Pursuant to Florida State Statute 1013.33(7), the local governing body is authorized to review development plans for public school facilities ***solely*** to determine site consistency with the comprehensive plan's land use policies, specifically to identify sites in which public schools are identified as allowable uses. No other aspects of the development plan are subject to review by the local governing body under this statute. While a comprehensive technical review was completed by the Technical Review Committee, not all Land Development Code (LDC) aspects normally reviewed for a major development project were included. Per state statute, review

emphasis was placed on land use, health, safety, welfare, and environmental concerns.

CONDITIONS OF APPROVAL:

SPECIFIC CONDITIONS:

1. Per Okaloosa Gas, after reviewing the plans regarding the project, Okaloosa Gas District will "locate and protect" its facilities in the area of construction. Please call Sunshine 811 (72 hours) prior to construction to have underground utilities located. Okaloosa Gas has provided marked up civil plans with their review (Exhibit D). Please note, the provided gas main information (Exhibit D) is for reference, and the locations should be considered approximate for planning purposes only.

2. Per Florida Power and Light (FPL), the developer will need to reach out to the FPL Area Engineering Project Manager, Logan Smith, for the electrical service needs of this project. He can be reached at (850) 833-4826.

3. Contact Waste Management District Manager, at (706) 239-5844, to ensure current solid waste disposal plan will accommodate school expansion.

4. Provide roadside swales between the sidewalk and road along Beach Drive.

5. Remove existing concrete connection in right-of-way (ROW) south of the southernmost accessway on Beach Drive.

6. Per ***LDC Section 8.01.00.G.6.g***, any sidewalk damaged during construction shall be replaced from joint to joint with 4" thick minimum and a light broom finish. Where sidewalk cuts through a driveway, concrete shall be a minimum of 6" thick. Sidewalks six feet (6') or wider in width must use 4000 psi fiber reinforced concrete.

7. Per ***LDC Section 8.04.03.D.3.c***, gates shall swing away from the right-of-way toward the interior of the property.

8. Per ***LDC Section 8.05.03.A***, ensure public sidewalk crossing driveway meets ADA cross slope requirements of 2% maximum.

9. Per ***LDC Section 8.01.00.A***, any infrastructure within the right-of-way that is damaged during construction shall be repaired to original or better condition.

GENERAL CONDITIONS:

1. Pursuant to the City of Destin Land Development Code:

   Construction of infrastructure must commence within one (1) year of approval date (date from which the final development order is issued by the Community Development Department) of the final development order on **October 21, 2025** (no later than **October 21, 2026**) and must be completed as shown on plans approved by the Technical Review Committee.

WARNING: If the applicant/owner has not obtained a building permit(s) for either the construction of infrastructure or construction of the entire project and that construction has not commenced within one (1) year of issuance of the final development order, the final development order will become null and void and the application for development order approval must be re-initiated (*Land Development Code (LDC) Section 2.21.00*).

NOTE: Construction of infrastructure shall be defined as site work, grading, or other construction activity (not including clearing and grubbing or demolition of existing structures) related to installation of roadways, access drives, parking lots, underground utilities, stormwater or drainage facilities, or building foundations (*LDC Section 2.21.00*).

NOTE: An applicant/owner who desires to extend the twelve (12) month (1 year) deadline for either the construction of infrastructure or construction of the entire project must submit a written request to the Community Development Department, no less than thirty (30) days prior to the expiration of the twelve (12) month deadline to obtain a building permit and commence construction of infrastructure or construction of the entire project. The applicant may receive only one extension, and such an extension shall not exceed one year. The applicant/owner should review *LDC Section 2.21.00* for further explanation of the Development Order extension process.

2. If the applicant fully complies with the requirements of condition No. 1. above, the concurrency capacity allocation status for the **"Destin Elementary School Addition**" will be protected. **However, the protected concurrency status will be lost and the application for development order approval must be re-initiated if:**

   A. The construction permit(s) in association with construction of infrastructure or construction of the entire project are not obtained in accordance with *LDC Section 2.10.00* to maintain concurrency, or

   B. Construction activity ceases for a period of one (1) year after a building permit for construction of infrastructure or construction of the entire project has been issued so that concurrency is not maintained under *LDC Article 6*.

David Prichard Date
Community Development Director
City of Destin

Dustin Merritt Date
Authorized Agent
Jacobs/Titan Total Program Management

EXHIBIT A
TECHNICAL REVIEW COMMITTEE REPORT
DESTIN ELEMENTARY SCHOOL
A MAJOR DEVELOPMENT ORDER (DEV-001522-2025)

Applicant:	Okaloosa County School Board
Agent:	Dustin Merritt of Jacobs/Titan Total Program Management
Location:	633 Kelly Street
Request:	Development of two total buildings adding an additional 75,000 square feet of classrooms, offices, and a teachers' lounge. This project will also include associated stormwater improvements, additional parking, and additional ingress and egress from school grounds to include access from Benning Drive.
Parcel(s) Size:	±29.22 acres, ±1,272,823 square feet
Future Land Use:	Institutional (INST)
Zoning District:	Institutional (INST)
Density:	N/A
Intensity:	FAR: .5 Allowed; 0.14 Proposed
Application Date:	January 5, 2025
Approved Site Plan Date:	September 8, 2025

DISCUSSION/FINDINGS

Dustin Merritt of Jacobs/Titan Total Program Management, on behalf of the Okaloosa County School Board, is requesting approval for a Major Development Order, which includes the addition of approximately 75,000 square feet of classrooms, offices, and a teachers' lounge. This project will included stormwater improvements, additional parking, and additional ingress and egress from school grounds to include access from Benning Drive. The subject project is located at 633 Kelly Street (Parcel IDs: 00-2S-22-0000-0001-00C0 & 00-2S-22-0000-0071-0000). The subject parcels are approximately 29.22 acres in total.

It should be noted that pursuant to Florida State Statute 1013.33(7), the local governing body is authorized to review development plans for public school facilities ***solely*** to determine site consistency with the comprehensive plan's land use policies, specifically to identify sites in which public schools are identified as allowable uses. No other aspects of the development plan are subject to review by the local governing body under this statute. While a comprehensive technical review was completed by the Technical Review Committee, not all Land Development Code aspects normally reviewed for a major development were included. Per state statute, review emphasis was placed on land use, health, safety, welfare, and environmental concerns.

COMPREHENSIVE PLAN/LAND DEVELOPMENT CODE

The subject property is within the **Village** planning area**.** The property has a Future Land Use Map Designation of **Institutional (INST)** and a Zoning Designation of **Institutional (INST)**. The proposed use is consistent with these land use regulations. The project, as required by the Comprehensive Plan and the Land Development Code, has undergone a compatibility review and meets the minimum requirements.

LAND USE

Elementary and secondary schools (NAIC #6111) are permitted use within the **INST** Future Land Use Map designation and within the **INST** Zoning District.

EXISTING USES
Elementary and secondary schools (NAIC #6111) – Existing ±113,012 square feet of elementary school educational facilities.

PROPOSED USES
Elementary and secondary schools (NAIC #6111) - Proposed additional ±75,000 square feet of additional classrooms and offices.

INTENSITY
Maximum allowed: .50 FAR
Provided: 0.14 FAR

HEIGHT
Maximum allowed: 35' / 3 stories
Provided: 27' 4" / 2 stories

SETBACKS
Front required (north): None
Front provided (north): ±26'

Side minimum required (east): None
Side provided (east): ±65'

Side minimum required (west): None
Side provided (west): ±562"

Rear minimum required (south): None
Rear provided (south): ±356' 6"

OPEN SPACE
Minimum required: 25%
Provided: 80%

PLATTING
There is no platting associated with this application.

CONCURRENCY MANAGEMENT
Concurrency requirements have not been evaluated for this order (*Florida State Statute 1013.33*).

AIRPORT PROTECTION
As proposed, this project is not affected by nor affects the Destin Executive Airport..

NOTE: Per Okaloosa County Airports, all contractors that will require a crane to hang any material will need to file notice with the Federal Aviation Administration's (FAA) Obstruction Evaluation Group (OEG) and obtain an Aeronautical Study Number (ASN). File Notice by submitting FAA Form 7460-1 at https://oeaaa.faa.gov/oeaaa/external/portal.jspb. The general contractor can obtain the ASN for the entirety of the project and all subcontractors can fall under their ASN.

TRANSPORTATION ANALYSIS
The proposed project meets the de minimis criteria outlined in ***Comprehensive Plan Policy 12-4.1.4(C)(5)***. This project is supporting existing students in the City of Destin and will not increase demand on existing infrastructure.

RIGHT-OF-WAY DEDICATION
The project does not include any right-of-way dedication.

INGRESS/EGRESS
Vehicular access to the property is provided by the Benning Drive, Beach Drive, and Kelly Street public rights-of-way (ROWs).

PARKING:
Elementary and secondary schools) – 2 spaces per 1 classroom is required

Required vehicle parking spaces for development area: 2 spaces x 34 Classrooms = 68

Provided vehicle parking spaces for development area: 89 (includes 6 handicapped spaces)

STORMWATER:
The City Manager's Stormwater designee approved the stormwater plan on June 3, 2025.

REFUSE COLLECTION:
All non-construction related dumpsters, trashcans, and recycling bins shall be placed in solid waste collection areas or inside a building.

WHITE SANDS ZONE
The proposed project is not located within a White Sand Zone. No additional action is required.

LANDSCAPING
Landscaping requirements have not been evaluated for this order (*Florida State Statute 1013.33(7)*).

SIGNS
No signs were reviewed for permitting or compliance with the Development Order application. All proposed signs must be permitted through a sign permit and shall comply with the sign code section of the Destin Land Development Code in effect at the time a sign application is submitted.

IMPACT FEES:
This project is exempt from project impact fees per ***LDC Section 19.03.11.A.5 & 19.04.11.A.5***.

OTHER FEES:
NONE

OTHER COMMENTS:
NONE

ITEM # 2025-1210

CITY OF DESTIN

AGENDA ITEM

COUNCIL MEETING DATE: October 20, 2025
TYPE OF AGENDA ITEM: Public Hearing
AGENDA OUTLINE NUMBER: 5.B.

TO: City Council

THRU: Larry Jones , City Manager
Kimberly Kopp, City Attorney

FROM: David Prichard, Community Development Director
Daniel Butler, Principal Planner

DATE: October 14, 2025

SUBJECT: The Shores At Crystal Beach – A Major Development Order (DEV-001655-2025)

I. BACKGROUND:

Jeffrey Petermann of Baskerville Donovan, Inc., on behalf of the City of Destin in combination with the Okaloosa County Board of Commissioners, is requesting approval for a Major Development Order consisting of the expansion of the existing parking lot and the construction of an additional parking lot for The Shores at Crystal Beach access. This will consist of expanding the existing western parking lot to include 19 standard parking spaces and one ADA accessible spot, while adding 34 Low-Speed Vehicle (LSV) parking spaces in the new eastern lot, along with a restroom facility, a dune walkover, and the associated infrastructure. The proposed project is located at 2942, 2966, & 2970 Scenic Highway 98 (Parcel IDs: 00-2S-22-0590-0000-00CA, 00-2S-22-0584-0000-0010, & 00-2S-22-0584-0000-0030), totaling approximately 1.80 acres in total.

II. DISCUSSION:

The proposed project scope includes the expansion to the existing parking lot and the construction of an additional parking lot for the Shores at Crystal Beach Access. This will consist of expanding the existing western parking lot to include 19 standard parking spaces and one ADA accessible spot, while adding 34 Low-Speed Vehicle (LSV) parking spaces in the new eastern lot, along with a restroom facility, a dune walkover, and the associated infrastructure.

COMPREHENSIVE PLAN/LAND DEVELOPMENT CODE

The subject property is within the **Crystal Beach Planning Area.** Also, the property has a Future Land Use Map Designation of **Recreation (REC)** and a Zoning Designation of

Recreation (REC). The proposed use is consistent with these land use regulations. The project, as required by the Comprehensive Plan and the Land Development Code, has undergone a compatibility review and meets the minimum requirements.

EXISTING USES
Nature Parks and Other Similar Institutions (NAICs 712190)

PROPOSED USES
Nature Parks and Other Similar Institutions (NAICs 712190)

INTENSITY
Maximum allowed:0.20 FAR
Provided:0.0352 FAR

HEIGHT
Maximum allowed:35’ / 3 stories
Approved:15’ / 1 story

SETBACKS

WESTERN PROPERTIES (00-2S-22-0590-0000-00CA, 00-2S-22-0584-0000-0010)
Front required: None
Front approved:±106.4’

Side minimum required (east): None
Side approved (east): ±4.5’

Side minimum required (west): None
Side approved (west): ±56.2’

Rear minimum required:None
Rear approved:>100’

EASTERN PROPERTY (00-2S-22-0584-0000-0030)
Front required: None
Front approved:±115.8’

Side minimum required (east): None
Side approved (east): ±11.7’

Side minimum required (west): None
Side approved (west): ±27.1’

Rear minimum required:None
Rear approved:>100’

Open Space
Minimum required:25%
Provided:74%

Platting
There is no platting associated with this application.

CONCURRENCY MANAGEMENT
Concurrency requirements have been met:

Potable Water/Sanitary Sewer: Signed September 24, 2025
Solid Waste: September 3, 2025

AIRPORT PROTECTION
As proposed, this project is not affected by nor affects the Destin Executive Airport.

NOTE: Per Okaloosa County Airports, all contractors that will require a crane to hang any material will need to file notice with the Federal Aviation Administration's (FAA) Obstruction Evaluation Group (OEG) and obtain an Aeronautical Study Number (ASN). File Notice by submitting FAA Form 7460-1 at https://oeaaa.faa.gov/oeaaa/external/portal.jspb. The general contractor can obtain the ASN for the entirety of the project and all subcontractors can fall under their ASN.

RIGHT-OF-WAY DEDICATION
The project does not include any right-of-way dedication.

INGRESS/EGRESS
Vehicular access to the property is provided from the Scenic Highway 98 and Hutchinson Street public rights-of-way (ROWs).

Pedestrian Network
The project provides a complete pedestrian network as required in ***LDC 8.09.03.A(6)***. A continuous internal sidewalk is provided throughout the development.

PARKING:
Required vehicle parking spaces for use
Park – 1 space:1

Required vehicle parking spaces for entire site:1
Provided vehicle parking spaces for entire site:20
Provided Low Speed Vehicle (LSV) parking spaces:34

Required bicycle parking spaces for use (10%):1
Provided bicycle parking spaces:10

UTILITIES:
All new utilities are required to be underground.

STORMWATER:
The City Manager's Stormwater designee approved the stormwater plan on October 14, 2025.

REFUSE COLLECTION:

Trash receptacles are located throughout the park and inside the restrooms. Trash is collected by City of Destin Employees 7 days a week. All non-construction related dumpsters, trashcans, and recycling bins shall be placed in solid waste collection areas or inside a building.

WHITE SANDS ZONE

The proposed project is located within White Sand Zone 1. Therefore, only white sand shall be utilized as fill on site, per ***LDC Section 11.07.02.A***. Prior to bringing any fill onto the site, the applicant shall provide Staff with a sample of the proposed fill for review and approval. 1. Per ***LDC Section 11.07.06***, if at the time of reconstruction or redevelopment of the site, materials and/or soils previously used in development which are not indigenous to Zone 1 are disturbed and or located on the site, the nonconforming materials/soils shall be immediately removed from the site and from the zone using safeguards to prevent discoloring the natural sand at the site and adjacent properties.

Landscaping

Street Trees Required (Sabal Palms): 8 trees
Reforestation Trees Required: 18 trees
Front Perimeter Landscape Buffer Required (1 per 25 linear feet): 6 trees
Interior Parking Islands Required: 5 trees

Total required trees: 37
Total trees provided*: 78

***Modification/alteration to any approved species of trees or shrubs shall be reviewed and approved by the Community Development Director or their designee prior to installation. A Development Order (DO) Deviation may be required if the proposed changes do not substantially meet the originally approved landscape plan.**

SIGNS

No signs were reviewed for permitting or compliance with the Development Order application. All proposed signs must be permitted through a sign permit and shall comply with the sign code section of the Destin Land Development Code in effect at the time a sign application is submitted.

IMPACT FEES:

Per ***LDC Section 19.01.01.D***, impact fees shall not apply to development for which the City of Destin is the applicant.

OTHER FEES:

NONE

PUBLIC COMMENTS

Staff received public comment from and responded to one citizen inquiring about the scope of work, followed up by questions regarding the pedestrian and vehicular flow.

A. Link to Strategic Goals / Objectives:

1) Financially sound city providing service excellence.
2) Enhanced quality of life and safety for families.
3) Economic development and revitalization.

4) Effective, efficient, and aesthetically pleasing infrastructure.
5) A green and sustainable environment.

B. Effect on Budget (EOB): There is no anticipated impact on the budget as this project has been budgeted for.

C. Level of Service (LOS): There is no anticipated impact on the LOS.

D. Legislative Sponsor:

E. Business Impact Statement:

III. CONCLUSION:

Jeffrey Petermann of Baskerville Donovan, Inc., on behalf of the City of Destin in combination with the Okaloosa County Board of Commissioners, is requesting approval for a Major Development Order consisting of the expansion of the existing parking lot and the construction of an additional parking lot for The Shores at Crystal Beach access. This will consist of expanding the existing western parking lot to include 19 standard parking spaces and one ADA accessible spot, while adding 34 Low-Speed Vehicle (LSV) parking spaces in the new eastern lot, along with a restroom facility, a dune walkover, and the associated infrastructure.

IV. RECOMMENDED MOTION: I move that the City Council approve The Shores at Crystal Beach, a Major Development Order, as presented.

ALTERNATIVE MOTION

I move that the City Council approve/approve with conditions/approve with modifications/deny The Shores at Crystal Beach, a Major Development Order, as presented.

Attachments:

1. Civil Plans
2. Drainage Report
3. Adjacent Property Notification
4. Property Posting Affidavit
5. Sign Posting Picture 1 of 2
6. Sign Posting Picture 2 of 2
7. DWU Approval Letter
8. Okaloosa Gas District Review
9. Landscape and Lighting Plan
10. Architectural Drawings
11. DRAFT DO-25-22_Shores at Crystal Beach

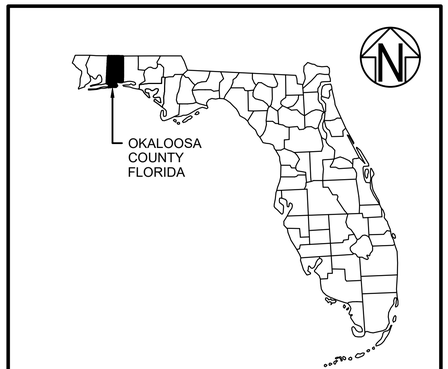
CONSTRUCTION PLANS FOR

SHORES AT CRYSTAL BEACH PARK EXPANSION

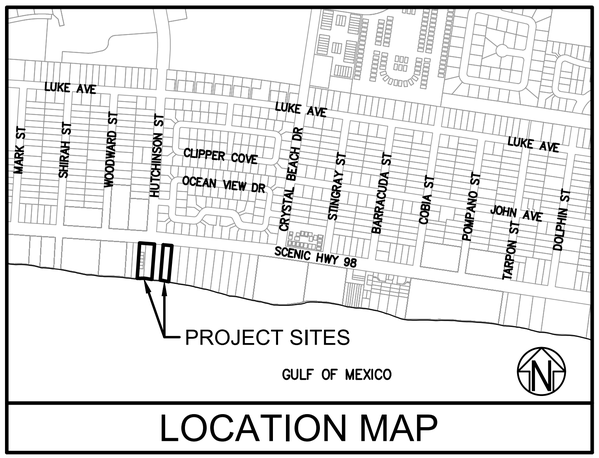
AUGUST 2025

PREPARED FOR:

OKALOOSA COUNTY



VICINITY MAP



LOCATION MAP

48 HOURS BEFORE YOU DIG
CALL SUNSHINE
1-800-432-4770
IT'S THE LAW IN FLORIDA
FL STATUTE 553.851 (1979) REQUIRES MIN. OF 2 DAYS AND MAX. OF 5 DAYS NOTICE BEFORE YOU EXCAVATE.

OKALOOSA COUNTY COMMISSIONERS

PAUL MIXON (CHAIRMAN)	COMMISSIONER DISTRICT 1
CAROLYN KETCHEL	COMMISSIONER DISTRICT 2
SHERRI COX	COMMISSIONER DISTRICT 3
TREY GOODWIN	COMMISSIONER DISTRICT 4
DREW PALMER	COMMISSIONER DISTRICT 5

PREPARED BY:

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
14101 PANAMA CITY BEACH PARKWAY, SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-6150
ENGINEERING BUSINESS: EB-0000340
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

ENGINEER'S PROJECT NO. 12105.02

Raven S. Roberts

Digitally signed by Raven S. Roberts
DN: C=US, E=rroberts@baskervilledonovan.com, CN=Raven S. Roberts
Date: 2025.08.15 14:22:53-05'00'

RAVEN SIMPSON ROBERTS LICENSE No. 89932 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS ITEM (G-001 THRU CU-507) HAS BEEN DIGITALLY SIGNED AND SEALED BY RAVEN SIMPSON ROBERTS ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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C-102	DEMOLITION PLAN
C-103	GEOMETRY PLAN
C-104	GEOMETRIC DATA TABLES
C-105 - C-106	GRADING AND STORM DRAINAGE PLAN
C-107	STORM DRAINAGE DATA TABLES AND NOTES
C-108	GRADING OVERVIEW
C-109	SITE SECTION 'A'
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C-300	TYPICAL PAVEMENT SECTIONS
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C-504 - C-507	ADS STORM TECH CHAMBER SYSTEM DETAILS (EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT)
C-508	ADS STORM TECH CHAMBER SYSTEM NOTES (WEST ASPHALT PARKING LOT)
C-509 - C512	ADS STORM TECH CHAMBER SYSTEM DETAILS (WEST ASPHALT PARKING LOT)
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LE-100	SITE LIGHTING PLAN
LE-500	SITE LIGHTING DETAILS

GENERAL NOTES:

1. THE CONTRACTORS SHALL NOTIFY OKALOOSA COUNTY MANAGER OR DESIGNEE 48 HOURS PRIOR TO CONSTRUCTION.
2. ALL CONDITIONS AND STIPULATIONS OF THE CONSTRUCTION PERMITS AND THE APPROVALS ISSUED BY OKALOOSA COUNTY SHALL BE COMPLIED WITH IN EVERY DETAIL.
3. ALL ROADS DAMAGED BY CONSTRUCTION OPERATIONS ARE TO BE PATCHED OR RECONSTRUCTED AS DIRECTED BY OKALOOSA COUNTY MANAGER OR DESIGNEE.
4. THE CONTRACTOR SHALL TAKE STEPS NECESSARY TO PREVENT EROSION AND ANY OFF SITE SEDIMENT TRANSPORT RESULTING FROM INCREASED RUNOFF DURING CONSTRUCTION BY PROVIDING EROSION CONTROL MEASURES CONSISTENT WITH THE FLORIDA STORMWATER, EROSION, AND SEDIMENT CONTROL INSPECTOR'S MANUAL, 2018 EDITION, OR AS INDICATED ON THE PLANS. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ASSOCIATED DISTURBED AREAS ARE STABILIZED AS TO REDUCE SEDIMENT RUNOFF, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR DESIGNEE.
5. THE CONTRACTOR SHALL EMPLOY THE USE OF SILT FENCES, HAY BALES, DITCHES OR WHATEVER MEANS NECESSARY TO CONTROL EROSION AND SEDIMENTATION AT ALL TIMES. WATERS OF THE STATE, ADJACENT PROPERTIES, AND ANY NEW DRAINAGE CONSTRUCTION SHALL BE PROTECTED DURING THE CONSTRUCTION PERIOD. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND SHALL REMAIN UNTIL THE COMPLETION OF CONSTRUCTION AND ACCEPTANCE BY THE OWNER.
6. ANY NECESSARY PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING AND/OR CONSTRUCTION.
8. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PRESERVE OR RELOCATE ALL BENCHMARKS (VERTICAL CONTROL) AS NEEDED DURING CONSTRUCTION. ALL PUBLIC OR PRIVATE CORNER MONUMENTATION SHALL BE PROTECTED. IF A PUBLIC OR PRIVATE CORNER MONUMENTATION IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR DESIGNEE IMMEDIATELY. ANY OKALOOSA COUNTY/CITY HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS ARE DISTURBED OR DESTROYED THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF THE MONUMENTS AND HAVE THE MONUMENTS POSITION DETERMINED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER USING GUIDELINES AS ESTABLISHED BY NATIONAL GEODETIC SURVEY FOR BLUE BOOKING AND APPROVAL.
9. EXISTING DRAINAGE FEATURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL MATCH EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AS DIRECTED BY THE ENGINEER OR DESIGNEE.
11. EXISTING STREETS AND DRIVES SHALL BE MAINTAINED TO LOCAL TRAFFIC AND PROPERTY OWNERS.
12. ONLY ACCESS TO THE ROAD R/W AS SHOWN IS GUARANTEED BY OKALOOSA COUNTY. PRIVATE R/W REQUIRED BY THE CONTRACTOR TO FACILITATE CONSTRUCTION SHALL BE ACQUIRED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION OR ASSISTANCE FROM THE CITY.
13. VEGETATION ON R/W AND EASEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLAN SHEETS. COST OF SAID RESTORATION SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS.
14. GRADED AGGREGATE BASE SHALL BE REQUIRED WHERE THE SEASONAL HIGH GROUND WATER ENCROACHES WITHIN TWO (2) FEET OF THE BOTTOM OF BASE.
15. ALL COMPACTED FILL SHALL BE PLACED IN 4" LIFTS FOR HAND POWERED TAMPERS AND 8" LIFTS FOR HEAVY EQUIPMENT OPERATED TAMPERS.
16. THE CONTRACTOR SHALL, AT A MINIMUM, MATCH EXISTING SIGNING AND PAVEMENT MARKINGS. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE LATEST FDOT DESIGN STANDARDS. THE CONTRACTOR SHALL CONTACT THE COUNTY AND CITY TRAFFIC DEPARTMENT PRIOR TO INSTALLATION OF ANY SIGNING AND PAVEMENT MARKINGS.
17. WHERE UNSUITABLE MATERIAL IS ENCOUNTERED IN THE AREAS PROPOSED FOR PAVING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY ENGINEER OR DESIGNEE PRIOR TO ANY EXCAVATION.
18. ALL DISTURBED AREAS WHICH ARE NOT PAVED SHALL BE STABILIZED WITH STAKED SOD. UNLESS NOTED OTHERWISE.
19. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS DURING CONSTRUCTION WHICH SHOW "AS-BUILT" CONDITIONS OF ALL WORK INCLUDING PIPING, DRAINAGE STRUCTURES, TOPO OF POND(S), OUTLET STRUCTURES, DIMENSIONS, ELEVATIONS, GRADING ETC. RECORD DRAWINGS SHALL BE PROVIDED TO THE ENGINEER OF RECORD PRIOR TO REQUESTING FINAL INSPECTION.
20. THE CONTRACTOR SHALL ARRANGE/SCHEDULE WITH OKALOOSA COUNTY A FINAL INSPECTION OF THE DEVELOPMENT UPON COMPLETION AND ANY INTERMEDIATE INSPECTIONS. AS-BUILT CERTIFICATION IS REQUIRED PRIOR TO REQUEST FOR FINAL INSPECTION/APPROVAL.
21. ALL ASPECTS OF THE STORMWATER/DRAINAGE COMPONENTS AND/OR TRANSPORTATION COMPONENTS SHALL BE COMPLETED PRIOR TO REQUESTING A FINAL INSPECTION.
22. NO DEVIATIONS OR REVISIONS FROM THESE PLANS BY THE CONTRACTOR SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM BOTH THE DESIGN ENGINEER AND OKALOOSA COUNTY. ANY DEVIATIONS MAY RESULT IN DELAYS OF COUNTY ACCEPTANCE.
23. CONTRACTOR SHALL SAFETY-BARRICADE ALL EXCAVATIONS AND OTHER HAZARDS.
24. CONTRACTOR SHALL PROVIDE ACCESS TO PROPERTIES ADJACENT TO THE CONSTRUCTION AREAS, ADEQUATE BARRICADES, CONSTRUCTION SIGNAGE AND OTHER TRAFFIC CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH FDOT CONSTRUCTION STANDARDS. DRIVEWAY ACCESS TO ADJACENT PROPERTY SHALL BE MAINTAINED AT ALL TIMES.
25. ADEQUATE PROVISIONS SHALL BE MADE FOR THE FLOW OF SEWERS, DRAINS, WATER COURSES AND OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION.
26. ALL NEW CONCRETE FOR SITE WORK SHALL ACHIEVE A 28 DAY STRENGTH OF 3000 PSI (MIN.), UNLESS OTHERWISE SPECIFIED.
27. ALL SIDEWALKS, DRIVEWAYS AND BOARDWALKS MUST BE BUILT TO ADA STANDARDS, LATEST EDITION OF DESIGN STANDARDS AND TRANSIT FACILITY GUIDELINES.
28. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES INCLUDING, BUT NOT LIMITED TO, WATER LINES, BURIED TELEPHONE LINES, BURIED ELECTRICAL LINES AND GAS MAINS PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR IS TO COORDINATE WITH UTILITY COMPANIES FOR REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES, AERIAL LINES, BURIED CABLE AND OTHER UTILITIES.
33. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS BETWEEN CONTRACT DOCUMENTS AND EXISTING CONDITIONS. THESE DRAWINGS REPRESENT KNOW STRUCTURES AND UTILITIES LOCATED IN THE PROJECT AREA. THE CONTRACTOR IS CAUTIONED THAT OTHER STRUCTURES AND UTILITIES, ABOVE OR BELOW GROUND, MAY BE ENCOUNTERED DURING THE COURSE OF THE PROJECT. THE CONTRACTOR SHOULD NOTIFY THE UTILITY COMPANY, THEN THE ENGINEER, IMMEDIATELY UPON ENCOUNTERING ANY UNEXPECTED STRUCTURE, UTILITY LINE, OR OTHER UNUSUAL CONDITION. EXISTING CONDITIONS ARE BASED ON SURVEYS BY BASKERVILLE-DONOVAN, INC.
34. ALL CONSTRUCTION RELATED ACTIVITIES SHALL BE CONDUCTED UPLAND OF THE MEAN HIGH WATER LINE. SHOULD THERE BE ANY CONFUSION IN REGARDS TO THE RELATION OF CONSTRUCTION RELATED ACTIVITIES TO THE ESTABLISHED MEAN HIGH WATER LINE, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
35. ALL PAVEMENT CUTS SHALL BE SAW CUT WITH A WET SAW TO LIMIT DUST.
36. ALL TREES IN THE PROJECT AREA ARE TO REMAIN UNDAMAGED UNLESS NOTED FOR REMOVAL OR APPROVED BY THE ENGINEER.
37. DIESEL FUEL IS NOT TO BE USED AS A RELEASE FOR HAND TOOLS AND TRUCKS PER FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2017-2018. NO RELEASE AGENT SHOULD BE POURED ONTO SOILS OVER ASPHALT SURFACES.
38. NOTIFY SUNSHINE UTILITIES 48 HOURS IN ADVANCE PRIOR TO DIGGING WITHIN R/W; 1-800-432-4770. CONTRACTOR SHALL VERIFY DEPTH AND LOCATION AND IMMEDIATELY NOTIFY ENGINEER OF CONFLICTS.
39. POWER COMPANY TO REVIEW ALL EXISTING POWER POLES PRIOR TO CONSTRUCTION FOR POSSIBLE RELOCATION/REPLACEMENT.
40. CONTRACTOR SHALL FIELD VERIFY THE CROSS SLOPES OF ALL EXISTING DRIVEWAYS TO ENSURE ADA MAXIMUM CROSS SLOPE COMPLIANCE OF TWO PERCENT (2%).
41. CONTRACTOR SHALL FIELD VERIFY DROP-OFF HEIGHTS AT ALL NOTED PEDESTRIAN HAZARD AREAS AND INSTALL APPROPRIATE MATERIAL AS FOLLOWS:
    <5.0 FT DROP-OFF USE GUIDE RAIL FDOT INDEX 515-052 (STEEL)
    >5.0 FT DROP-OFF USE PEDESTRIAN/BICYCLE RAILINGS INDEX 515-052 (STEEL)
42. CITY SHALL OBTAIN ANY/ALL TEMPORARY CONSTRUCTION EASEMENTS NECESSARY FOR PRIVATE PROPERTY IMPACTS BEYOND THE RIGHT-OF-WAY.
43. THE CONTRACTOR SHALL EMPLOY THE USE OF SILT FENCES, HAY BALES, DITCHES OR WHATEVER MEANS NECESSARY TO CONTROL EROSION AND SEDIMENTATION AT ALL TIMES. WATERS OF THE STATE, ADJACENT PROPERTIES, AND ANY NEW DRAINAGE CONSTRUCTION SHALL BE PROTECTED DURING THE CONSTRUCTION PERIOD. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND SHALL REMAIN UNTIL THE COMPLETION OF CONSTRUCTION AND ACCEPTANCE BY THE OWNER.
44. ALL ON-SITE GRADING, DRAINAGE AND PAVEMENT WORK SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
45. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DUST CONTROL.
46. THE CONTRACTOR SHALL RESTORE ALL DISTURBED RIGHTS-OF-WAY IN ACCORDANCE WITH THE EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
47. THE CONTRACTOR SHALL HIRE A SURVEYOR LICENSED IN THE STATE OF FLORIDA IN ACCORDANCE WITH SECTION 12.0 OF THE GENERAL CONDITIONS.
48. THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS.
49. CONTRACTOR SHALL COMPLY FULLY WITH ALL PERMIT REQUIREMENTS IMPOSED BY THE REGULATORY AUTHORITIES.
50. TYPE B STABILIZATION IS INCIDENTAL TO EARTHWORK.

UTILITY NOTES:

1. THE LOCATION SHOWN FOR EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR AGREES TO BE COMPLETELY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT OCCUR BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES.
2. UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION SO THAT THE UTILITY OWNER CAN SPOT VERIFY AND/OR EXPOSE THEIR UTILITIES.
3. POWER COMPANY WILL COMPLETE ALL WORK DURING THE HOURS OF 7:30 AM – 4:30 PM, MONDAY THRU FRIDAY. NO NIGHT OR WEEKEND WORK.
4. ALL CABLE DAMAGE MUST BE REPORTED TO THE ATT FLORIDA REPAIR SERVICE DEPARTMENT AT 611 FROM A LAND LINE OR 877-737-2478 IF USING A CELL PHONE.
5. CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.
6. UTILITIES TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. NECESSARY REPAIRS SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS AND SHALL BE TO THE SATISFACTION OF UTILITY OWNERS.
7. AT&T FLORIDA WILL COMPLETE ALL WORK DURING THE HOURS OF 7:30 AM – 4:30 PM, MONDAY THRU FRIDAY. NO NIGHT OR WEEKEND WORK.

UTILITY CONTACT INFORMATION

UTILITY	ADDRESS	CONTACT NAME	PHONE NUMBER
WATER AND SANITARY SEWER	P.O. BOX 308, DESTIN, FL 32541	DESTIN WATER USERS	(850) 837-6146
POWER	34854 EMERALD COAST PARKWAY, DESTIN, FL 32541	FLORIDA POWER & LIGHT	(800) 225-5797
NATURAL GAS	364 VALPARAISO PARKWAY, VALPARAISO, FL 32580	OKALOOSA GAS DISTRICT	(850) 729-4700
TELECOMMUNICATIONS	3405 MCLEMORE DRIVE, PENSACOLA, FL 32514	COX COMMUNICATIONS, INC.	(850) 857-4571

STORMWATER NOTES:

1. CONTRACTOR SHALL OBTAIN A NPDES PERMIT FROM FDEP PRIOR TO COMMENCEMENT WORK.
2. ALL PIPE JOINTS, INCLUDING CONNECTIONS TO STRUCTURES, SHALL BE WRAPPED WITH FILTER FABRIC IN ACCORDANCE WITH FDOT DESIGN STANDARDS AND THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

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ENGINEERING BUSINESS: EB-0000340
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR.: JCP
DATE: AUGUST 2025

GENERAL NOTES

G-001

DUST CONTROL METHODS:

CONTRACTOR TO USE METHOD OR COMBINATION OF METHODS LISTED BELOW AND TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE AND BEING TRANSPORTED OFF-SITE:

1. PHASING: ONLY DISTURB AREAS LESS THAN ONE ACRE AT ONE TIME. BEGIN CONSTRUCTION ACTIVITIES AT WEST SIDE OF SITE AND PROCEED TO EAST TO PROVIDE BUFFER AREA WHERE SHIFTING SOIL CAN BE ARRESTED.
2. SCHEDULE: DELAY EARTHWORK AND OTHER ACTIVITIES GENERATING PARTICULATE MATTER WHEN WIND VELOCITY IS GREATER THAN 30 MPH.
3. RESTRICTING VEHICLES: USE SIGNS AND OTHER TRAFFIC CONTROLS TO LIMIT SPEED AND ACCESS OF JOB SITE VEHICLES. LIMIT SPEED TO 10 MPH MAXIMUM. RESTRICT VEHICLE TRAFFIC IN DUST STABILIZED AREAS.
4. EXCAVATED MATERIAL: KEEP OUT OF ACTIVE TRAFFIC LANES. IMMEDIATELY REMOVE EXCAVATED MATERIAL DEPOSITED IN ROADWAYS BY EROSION OR SPILLAGE. COVER LOADS TRANSPORTED IN EARTH-MOVING EQUIPMENT.
5. WATERING: USE SPRINKLER SYSTEM OR WATER TRUCK WITH SPRAY BOOM TO WATER DISTURBED AREA, AS NEEDED, TO ADEQUATELY CONTROL DUST.
6. WINDBREAKS: ERECT SNOW FENCES OR SIMILAR WINDBREAKS UPWIND AND WITHIN DISTURBED AREAS. PLACE FENCES PERPENDICULAR TO PREVAILING WINDS AS APPROPRIATE.
7. PALLIATIVES: APPLY DUST PALLIATIVE TO STABILIZE SOILS AFTER EARTHWORK IS COMPLETED AND TO SANDY SOILS WHERE WATERING IS INEFFECTIVE. DO NOT USE PALLIATIVE DETRIMENTAL TO VEGETATION IN AREAS OF FUTURE PLANT LANDSCAPING.
8. OTHER METHODS THAT SUBSTANTIALLY AND EFFECTIVELY REDUCE TRANSPORTED MATERIAL OR EMISSION OF PARTICULATE MATTER INTO ATMOSPHERE.
9. IF WATER TRUCK IS USED TO CONTROL DUST ON DIRT/GRADED AREAS ONLY, WATER TRUCK WILL ONLY DROP ENOUGH WATER TO CONTROL THE DUST OR REACH THE OPTIMUM MOISTURE CONTENT OF THE SOIL FOR COMPACTION. NO RUN-OFF IS TO BE GENERATED.
10. CONTROLLING DUST ON PAVED ROADWAYS WILL BE DONE BY USE OF SWEEPER WITH WATER-JET SPRAYERS. ONLY ENOUGH WATER SHOULD BE APPLIED TO CONTROL DUST WHILE SWEEPING. DO NO GENERATE RUN-OFF FROM SPRAYERS THAT RUNS INTO CATCH BASINS.
11. CONTRACTOR TO PROVIDE OPACITY MONITORING BY A PROPERLY TRAINED AND CERTIFIED INDIVIDUAL IN ORDER TO MAKE SURE THAT DUST EMISSIONS DO NOT EXCEED 30 PERCENT OVER A SIX-MINUTE PERIOD; AND HOW REMEDIAL ACTIONS TO ADDRESS OPACITY WILL BE IMMEDIATELY MANAGED AND DOCUMENTED.
12. CONTRACTOR TO FAMILIARIZE THEMSELVES WITH SECTION 11.10.00 – AIR QUALITY, IN THE CITY OF DESTIN LAND DEVELOPMENT CODE.
13. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, A PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN CALENDAR DAYS ON ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); EMBANKMENTS OF PONDS, BASINS, AND TRAPS; AND WITHIN
14. CALENDAR DAYS ON ALL OTHER DISTURBED OR GRADED AREAS.; THE REQUIREMENTS OF SECTION 11.09.03 OF THE DESTIN LAND DEVELOPMENT CODE DO NOT APPLY TO THOSE AREAS WHICH ARE SHOWN ON THE PLAN AND ARE CURRENTLY BEING PERFORMED.
15. ALL BARE GROUND, STRIPPED OF VEGETATION DURING THE CLEARING/GRADING PROCESS, SHALL BE COVERED TO THE MAXIMUM EXTENT PRACTICABLE.
16. ALL DISTURBED AREAS SHALL BE COVERED AND/OR MULCHED WITHIN 12 HOURS, IF THEY ARE TO REMAIN UN-WORKED FOR MORE THAN 2 CALENDAR DAYS.
17. AREAS NOT BEING WORKED FOR 30 CALENDAR DAYS OR MORE SHALL BE VEGETATED, UNLESS THE CITY DETERMINES THAT WINTER WEATHER MAKES VEGETATION ESTABLISHMENT INFEASIBLE. IF THIS IS THE CASE, IT MUST STILL BE MORE PERMANENTLY STABILIZED, USING METHODS SUCH AS BONDED FIBER MATRIX, OR OTHER MORE STABLE BMPS.
18. SLOPES & STOCKPILES 3H:1V OR STEEPER AND MORE THAN 10 FEET OF VERTICAL RELIEF SHALL BE COVERED IF THEY ARE UN-WORKED FOR MORE THAN 48 HOURS.
19. AREAS THAT ARE BEING HYDRO-SEEDED SHALL HAVE A TACKIFIER MIXED INTO THE HYDRO-SEED TO HELP STABILIZE MIXTURE ONTO THE SOIL.
20. ENOUGH COVER MATERIAL TO SUFFICIENTLY PROTECT ALL DISTURBED AREAS SHALL BE STOCKPILED ON THE SITE AT THE BEGINNING OF THE WET SEASON.
21. ROADS AND PARKING AREAS SHALL BE STABILIZED IMMEDIATELY AFTER THE INITIAL GRADING.
22. ADDITIONAL TECHNIQUES TO REDUCE SOIL TRACKING OFF OF A SITE AND ONTO A ROADWAY SUCH AS WHEEL WASHING STATIONS MAY BE REQUIRED.
23. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING/FLUSHING STREETS.
24. ANY SEDIMENT THAT IS TRACKED ONTO ROAD PAVEMENT SHALL BE REMOVED IMMEDIATELY (PRIOR TO THE END OF THE WORK DAY) BY SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED FROM THE ROADWAY AND STABILIZED ON-SITE.

VIBRATION IMPACT MITIGATION METHODS

DESIGN CONSIDERATIONS AND PROJECT LAYOUT:

1. ROUTE HEAVILY LOADED TRUCKS AWAY FROM RESIDENTIAL STREETS, IF POSSIBLE. SELECT STREETS WITH FEWEST HOMES, IF NO ALTERNATIVES ARE AVAILABLE.
2. OPERATE EARTHMOVING EQUIPMENT ON THE CONSTRUCTION LOT AS FAR AWAY FROM VIBRATION-SENSITIVE SITES AS POSSIBLE.

SEQUENCE OF OPERATIONS:

1. PHASE DEMOLITION, EARTHMOVING AND GROUND-IMPACTING OPERATIONS SO AS NOT TO OCCUR IN THE SAME TIME PERIOD. UNLIKE NOISE, THE TOTAL VIBRATION LEVEL PRODUCED COULD BE SIGNIFICANTLY LESS WHEN EACH VIBRATION SOURCE OPERATES SEPARATELY. CONTRACTOR SHALL MINIMIZE IMPACTS ON SURROUNDING AREAS FOR ANY ACTIVITY EXCEEDING THE APPROXIMATE FTA VIBRATION ANNOYANCE THRESHOLD OF 80 VDB.
2. AVOID NIGHTTIME ACTIVITIES. PEOPLE ARE MORE AWARE OF VIBRATION IN THEIR HOMES DURING THE NIGHTTIME HOURS.

ALTERNATIVE CONSTRUCTION METHODS:

1. SELECT DEMOLITION METHODS NOT INVOLVING IMPACT, WHERE POSSIBLE. FOR EXAMPLE, MILLING GENERATES LOWER VIBRATION LEVELS THAN EXCAVATION USING CLAM SHELL OR CHISEL DROPS. VIBRATIONS TO SENSITIVE RECEPTOR STRUCTURES SHALL NOT EXCEED THE VIBRATION DAMAGE THRESHOLD OF 95 VDB.
2. AVOID VIBRATORY ROLLERS AND PACKERS NEAR SENSITIVE AREAS.

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SHORE AT CRYSTAL BEACH EXPANSION

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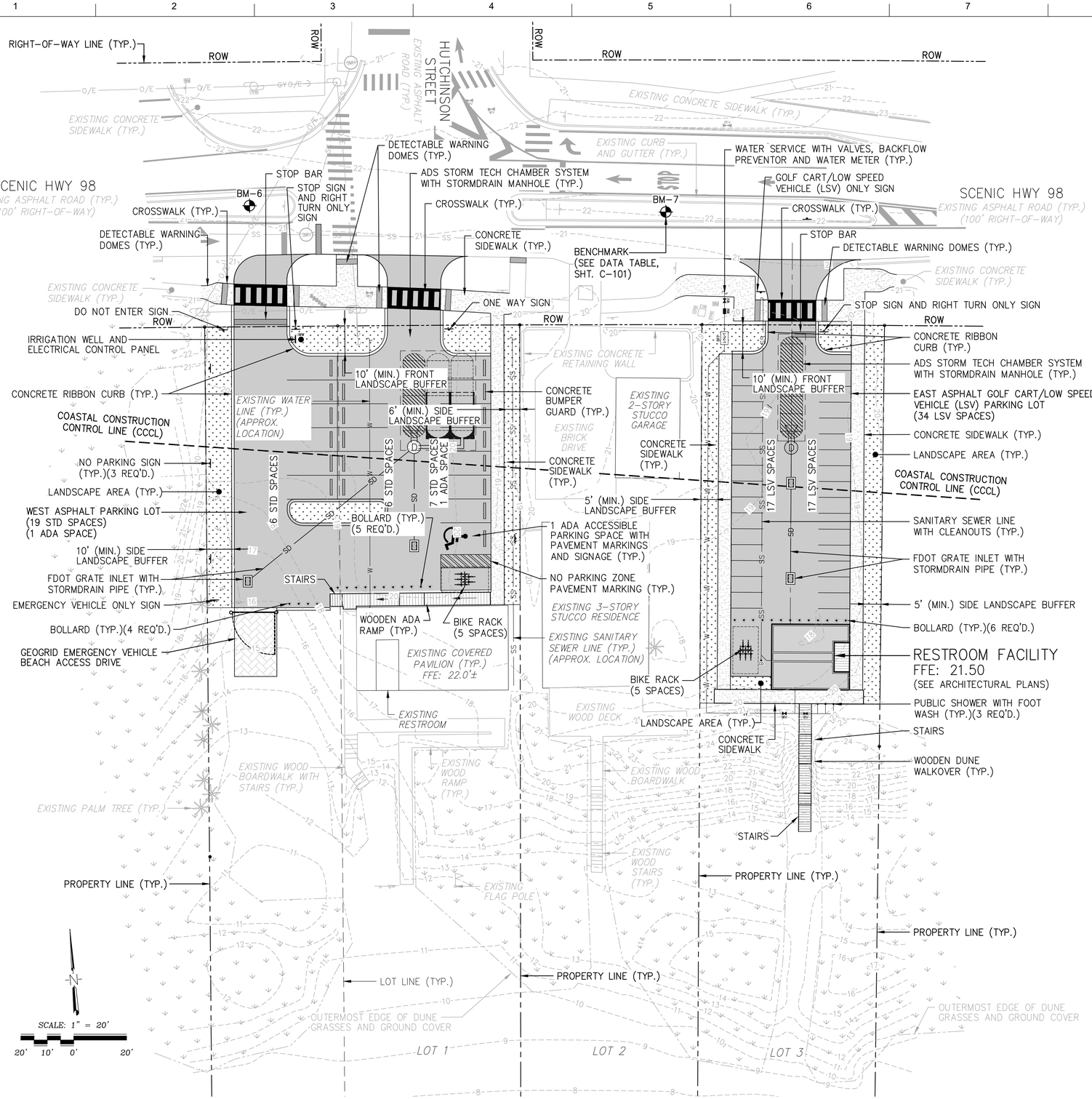
PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

GENERAL NOTES

G-002

100% SUBMITTAL



LEGEND

- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- GEOGRID
- LANDSCAPED AREA
- WOODEN BOARDWALK
- ADS STORM TECH CHAMBER SYSTEM

SITE DATA TABLE

PARCEL ID:
00-2S-22-0590-000-00CA, 00-2S-22-0584-0000-0010,
00-2S-22-0584-0000-0030

LAND USE:
SITE ZONING: RECREATION
FUTURE LAND USE: RECREATION

FLOOD ZONE: X * & ZONE VE 16

BUILDING SETBACKS REQUIRED:
FRONT = NONE
SIDE = NONE
REAR = NONE
(DESTIN LAND DEVELOPMENT CODE SECTION 7.12.08 DIMENSIONAL REQUIREMENTS. TABLE 7-3 FOR REC ZONE.)

BUILDING SETBACKS PROVIDED FOR EXISTING WEST BUILDING:
ROW TO NORTH SIDE OF BLDG = 106.4± FEET
EAST PROPERTY LINE TO EAST SIDE OF BLDG = 4.5± FEET
WEST PROPERTY LINE TO WEST SIDE OF BLDG = 56.2± FEET

BUILDING SETBACKS PROVIDED FOR EAST BUILDING:
ROW TO NORTH SIDE OF BLDG = 115.8± FEET
EAST PROPERTY LINE TO EAST SIDE OF BLDG = 11.7± FEET
WEST PROPERTY LINE TO WEST SIDE OF BLDG = 27.1± FEET

BUILDING INFORMATION: PROPOSED RESTROOM FACILITY
BUILDING HEIGHT:
ALLOWED: 35'
PROPOSED: 15'
BUILDING STORIES:
ALLOWED: 3
PROPOSED: 1

GROSS FLOOR AREA: (WEST: 2158.3± SQ. FT.)
(EAST: 603.6± SQ. FT.)

TOTAL SITE AREA: (WEST: 47796.83 SQ. FT. OR 1.10 AC.)
(EAST: 30632.62 SQ. FT. OR 0.70 AC.)

MAX. FLOOR AREA RATIO: 20%

FLOOR AREA RATIO PROPOSED: (WEST: 4.5%) (EAST: 2.0%)

IMPERVIOUS AREA ALLOWED: (WEST: 35847.62 SQ. FT. OR 75%)
(EAST: 22974.47 SQ. FT. OR 75%)

IMPERVIOUS AREA PROPOSED: (WEST: 12885.86 SQ. FT. OR 27%)
(EAST: 7494.62 SQ. FT. OR 24%)

OPEN SPACE PROVIDED: (WEST: 34910.97 SQ. FT. OR 73%)
(EAST: 23182.00 SQ. FT. OR 76%)

PARKING

PARKING REQUIRED:
1 SPACE PER 150 SQ. FT. OF GROSS FLOOR AREA: (WEST: 13 SPACES)
(EAST: 5 SPACES)

PARKING PROVIDED:
REGULAR SPACES: (WEST: 19 SPACES)
ADA SPACES: (WEST: 1 SPACE)
LSV SPACES: (EAST: 32 SPACES)
BICYCLE PARKING SPACES: (WEST: 5 SPACES) (EAST: 5 SPACES)

* THIS PARCEL APPEARS TO LIE IN FLOOD ZONE X (NO MINIMUM FLOOD ELEVATION REQUIRED) AS DETERMINED FROM FEMA FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 12091C0493J, REVISED MARCH 9, 2021.

SIGNS

SIGNS PROVIDED:
DO NOT ENTER SIGNS: (WEST: 2 SIGNS)
RIGHT TURN ONLY SIGN: (WEST: 1 SIGN) (EAST: 1 SIGN)
(R7-8) ADA HANDICAPPED PARKING SIGN: (WEST: 1 SIGN)
(R8-3A) NO PARKING SIGN: (WEST: 3 SIGNS)
EMERGENCY VEHICLE ACCESS ONLY SIGN: (WEST: 1 SIGN)
(R1-1) STOP SIGN: (WEST: 1 SIGNS) (EAST: 1 SIGN)
LOW SPEED VEHICLE (LSV) PARKING ONLY SIGN: (EAST: 1 SIGN)

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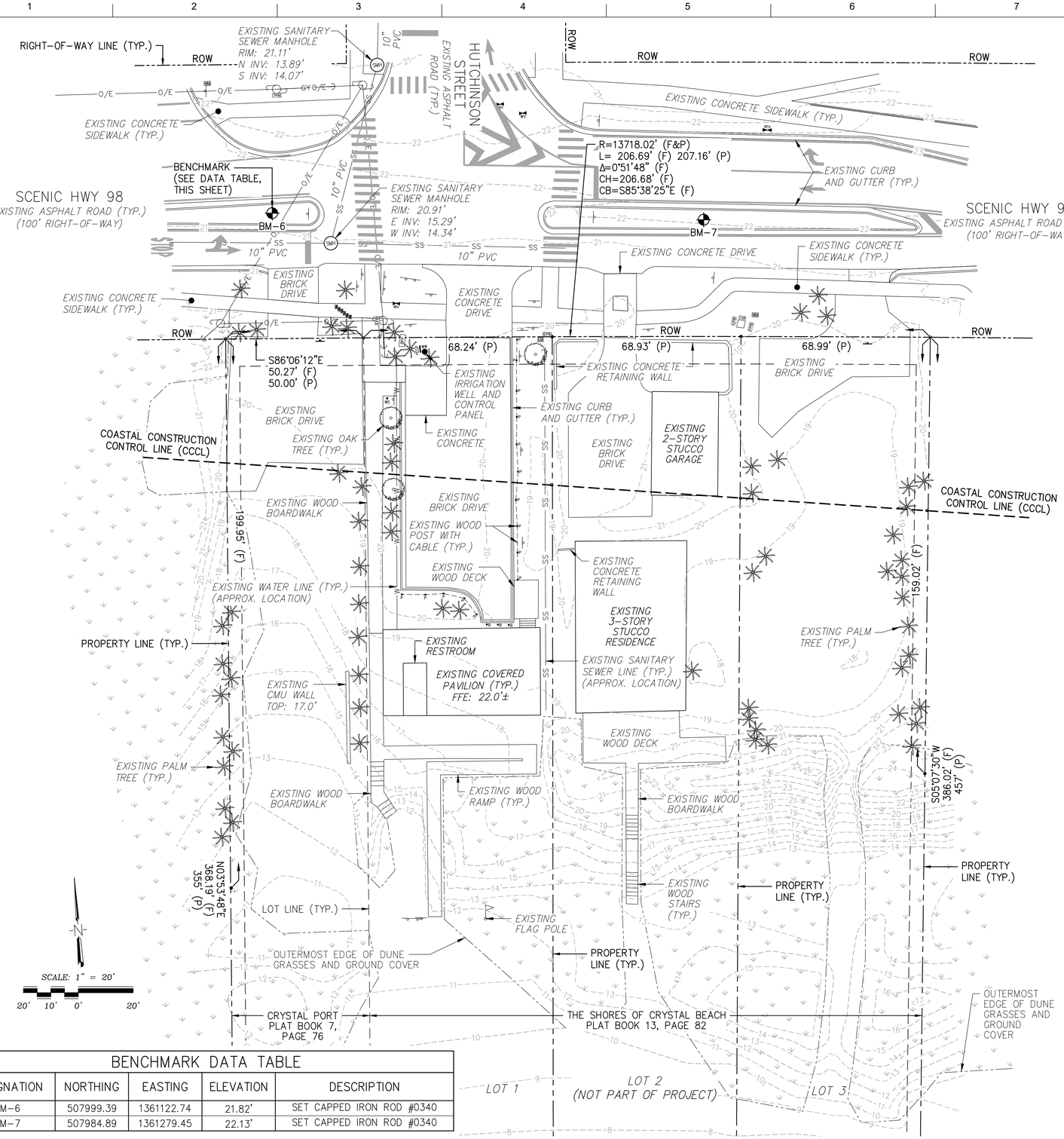
PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

PROJECT OVERVIEW

C-100



BENCHMARK DATA TABLE

DESIGNATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM-6	507999.39	1361122.74	21.82'	SET CAPPED IRON ROD #0340
BM-7	507984.89	1361279.45	22.13'	SET CAPPED IRON ROD #0340

ABBREVIATION LEGEND

ROW	OR R/W	RIGHT OF WAY
	INV	INVERT
EL	OR ELEV	ELEVATION
	O.R.	OFFICIAL RECORDS BOOK
	(P)	PLAT
	(F)	FIELD
	(D)	DEED
	R	RADIUS
	Δ	DELTA
	L	LENGTH
	C	CHORD
	CH	CHORD BEARING

SURVEY SYMBOL LEGEND

- SET CAPPED IRON ROD #0340
- FOUND IRON ROAD AND CAP
- FOUND IRON ROD AND CAP
- FOUND CRIMP TOP PIPE
- FOUND IRON ROD
- FOUND OPEN TOP PIPE
- FOUND CONCRETE MONUMENT
- SET NAIL AND DISK
- RIGHT OF WAY
- PROPERTY LOT LINE
- PROPERTY LINE
- MEAN HIGH WATER LINE
- COASTAL CONSTRUCTION CONTROL LINE (CCCL)
- LANDSCAPE BUFFER SETBACK
- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- SIGN (SINGLE SUPPORT)
- SIGN (MULTI SUPPORT)
- WOODEN POST CONNECTION CABLE
- WOODEN POST
- BOLLARD
- DUNE GRASS
- TREE – OAK
- TREE – PINE
- FLAG POLE
- SS — SANITARY SEWER LINE
- SMH — SANITARY SEWER MANHOLE
- IRV — IRRIGATION VALVE
- W — WATER LINE
- BFP — WATER BACKFLOW PREVENTOR
- WV — WATER VALVE
- WM — WATER METER
- WS — WATER SHOWER STATION
- O/E — OVERHEAD ELECTRICAL LINE
- GY — GUYWIRE
- ELECTRICAL POWER POLE
- EPB — ELECTRICAL WIRE PULL BOX
- ESB — ELECTRICAL SERVICE BOX
- TPB — TELEPHONE WIRE PULL BOX
- FPB — FIBER OPTIC WIRE PULL BOX
- CPB — CABLE TV WIRE PULL BOX

SURVEYOR'S NOTES:

1. NORTH AND THE SURVEY DATUM SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) AND EXISTING FIELD MONUMENTATION.
2. THE ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. NO TITLE SEARCH, TITLE OPINION, OR ABSTRACT WAS PERFORMED BY NOR PROVIDED TO THIS FIRM FOR THE SUBJECT PROPERTY. THERE MAY BE DEEDS OF RECORD, UNRECORDED DEEDS, EASEMENTS, RIGHTS-OF-WAY, BUILDING SETBACKS, RESTRICTIVE COVENANTS OR OTHER INSTRUMENTS WHICH COULD AFFECT THE BOUNDARIES OR USE OF THE SUBJECT PROPERTY.
4. THE FIELD SURVEY SHOWN HEREON WAS PERFORMED IN AUGUST 2021 AND RECORDED IN FIELD BOOK 21-06, PAGES 12-18.
5. THE ABOVE GROUND UTILITIES SHOWN HEREON WERE BASED ON VISIBLE FIELD LOCATION. ANY SUBSURFACE UTILITIES SHOWN HEREIN SHOULD BE VERIFIED BY THE CONTRACTOR.
6. ALL DISTANCES ARE EXPRESSED IN FEET AND DECIMAL PARTS THEREOF.
7. SOIL BORING AND TEST PIT LOGS AND LABORATORY DATA CAN BE FOUND IN THE GEOTECHNICAL REPORT.

PROPERTY DESCRIPTIONS:

(O.R. BOOK 3502, PAGE 1397)
UNITS A, B, C, D, E, AND COMMON AREA OF CRYSTAL PORT, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 7, PAGE 76, OF THE PUBLIC RECORD OF OKALOOSA COUNTY, FLORIDA.

AND ALSO:

(O.R. BOOK 2517, PAGE 3684)
LOT 1, THE SHORES OF CRYSTAL BEACH, A PLANNED UNIT DEVELOPMENT, A RESUBDIVISION OF A PORTION OF BLOCK B, CRYSTAL BEACH SUBDIVISION ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 13, PAGE 82 OF THE PUBLIC RECORD OF OKALOOSA COUNTY, FLORIDA.

AND ALSO:

(O.R. BOOK 3506, PAGE 695)
LOT 3, THE SHORES OF CRYSTAL BEACH, A PLANNED UNIT DEVELOPMENT, A RESUBDIVISION OF A PORTION OF BLOCK B, CRYSTAL BEACH SUBDIVISION ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 13, PAGE 82 OF THE PUBLIC RECORD OF OKALOOSA COUNTY, FLORIDA.
PARCEL ID NO.
00-2S-22-0584-0000-0030

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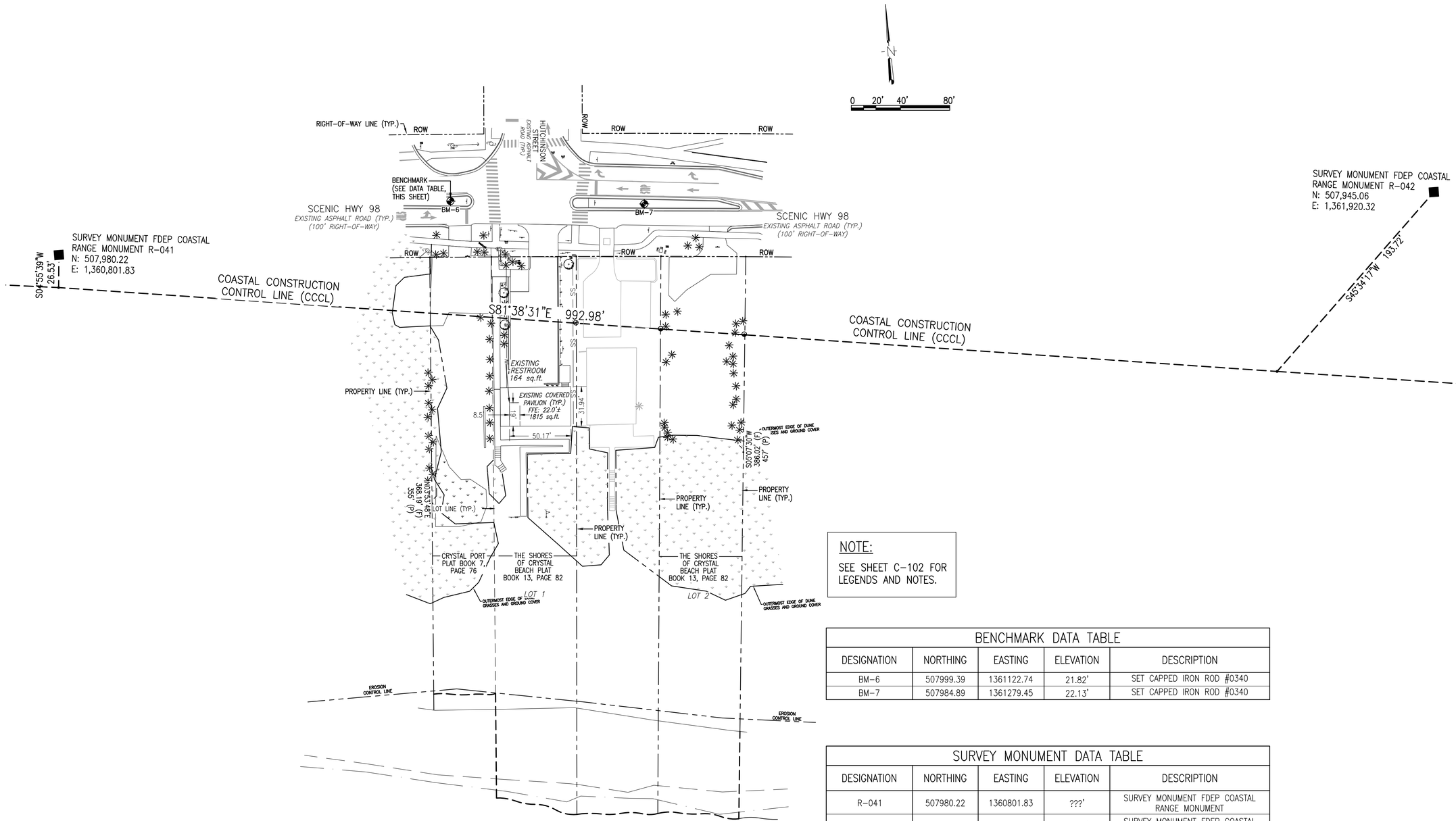
EXISTING CONDITIONS

C-101



NOTE:

SEE SHEET C-102 FOR LEGENDS AND NOTES.

BENCHMARK DATA TABLE

DESIGNATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM-6	507999.39	1361122.74	21.82'	SET CAPPED IRON ROD #0340
BM-7	507984.89	1361279.45	22.13'	SET CAPPED IRON ROD #0340

SURVEY MONUMENT DATA TABLE

DESIGNATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
R-041	507980.22	1360801.83	???'	SURVEY MONUMENT FDEP COASTAL RANGE MONUMENT
R-042	507945.06	1361920.32	20.28'	SURVEY MONUMENT FDEP COASTAL RANGE MONUMENT

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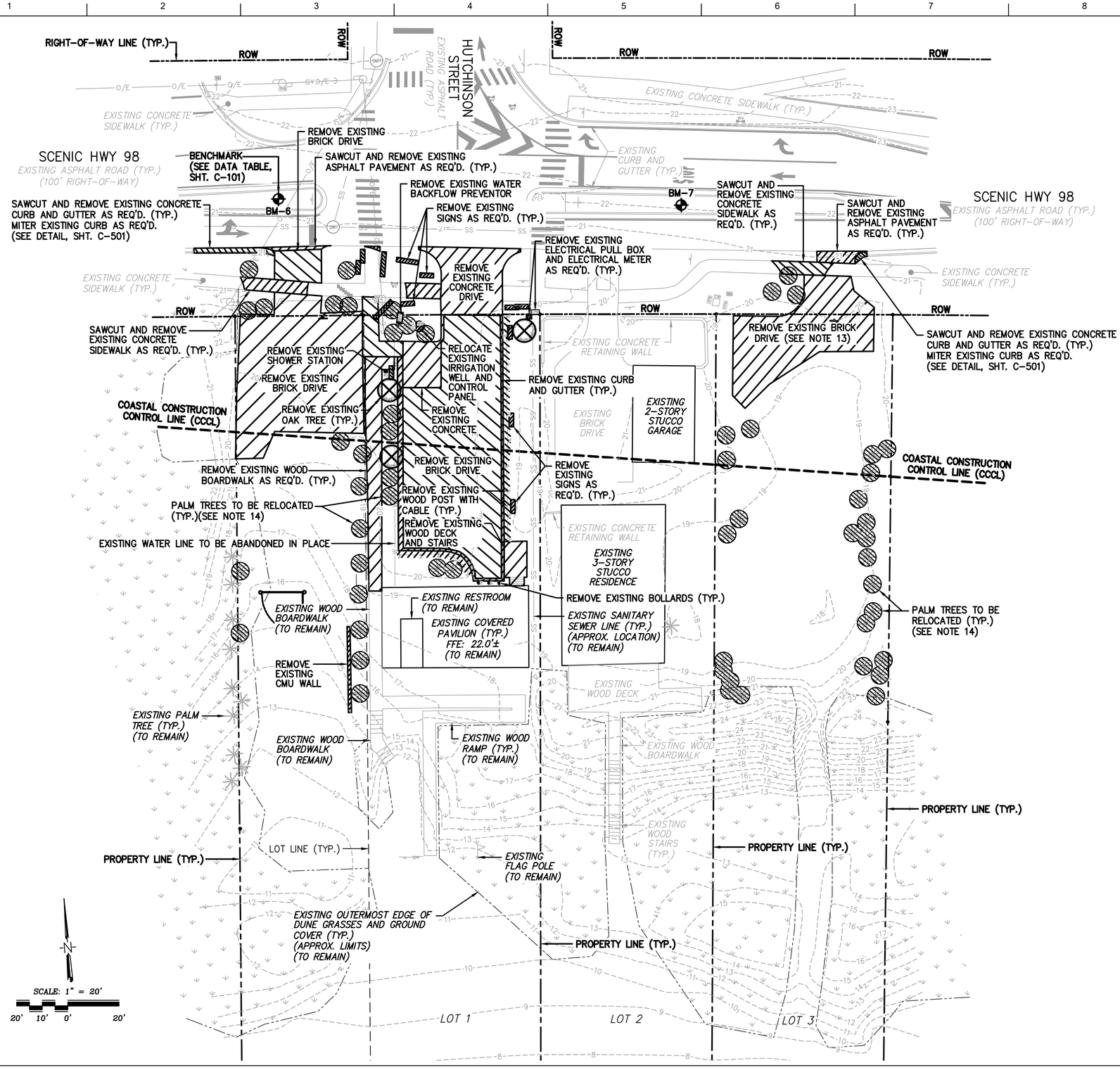
SURVEY CONTROL PLAN AND EXISTING CONDITIONS

C-101A

100% SUBMITTAL



DEMOLITION NOTES:

1. SEE SHEET C-101 FOR SURVEY BENCHMARKS, SURVEY SYMBOL LEGEND AND ABBREVIATION LEGEND.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE ACCURACY OF THE EXISTING SITE INFORMATION SHOWN HERE IN. ANY CHANGED OR ALTERED SITE CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE COUNTY AND CITY IMMEDIATELY.
3. ALL EXISTING DEBRIS AND DEBRIS FROM CONSTRUCTION OPERATIONS SHALL BE DISPOSED OF OFF-SITE AT THE CONTRACTOR'S EXPENSE.
4. TOPSOIL SUITABLE FOR REUSE SHALL BE STOCKPILED ON-SITE IN AN APPROVED LOCATION AND REDISTRIBUTED OVER ALL DISTURBED AREAS IN ONE 4" LAYER, (LOOSE THICKNESS).
5. ALL WORK ADJACENT TO OR ON EXISTING ROADWAYS SHALL COMPLY WITH CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS FOR TRAFFIC CONTROL AND SAFETY. THE CONTRACTOR SHALL HOLD THE COUNTY AND CITY HARMLESS FOR ANY INCIDENT OCCURRING ON OR ADJACENT TO THE PROJECT SITE.
6. EXISTING TREES SHOWN OUTSIDE THE LIMITS OF CLEARING AND GRUBBING ARE TO REMAIN. PRIOR TO SITE CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL CLEARLY IDENTIFY THE CLEARING LIMITS.
7. CLEARING AND GRUBBING OF TREES AND SHRUBS NOT OTHERWISE IDENTIFIED SHALL BE LIMITED TO THAT WHICH IS ABSOLUTELY REQUIRED FOR NEW CONSTRUCTION. ANY ADDITIONAL CLEARING AND/OR GRUBBING OF TREES SHALL BE COMPLETED AS APPROVED BY THE COUNTY AND CITY.
8. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL LOCATE ALL UTILITIES. ANY UTILITY ADJUSTMENTS, EXISTING OR PROPOSED, REQUIRED TO COMPLETE CONSTRUCTION UNDER THIS CONTRACT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, THE TEMPORARY RELOCATION OF EXISTING OVERHEAD POWER LINES. ALL WORK IN THE VICINITY OF OVERHEAD POWER LINES SHALL CONFORM TO APPLICABLE (LOCAL) SAFETY REQUIREMENTS. THE CONTRACTOR IS TO REPAIR DAMAGES TO EXISTING UTILITIES THAT ARE TO REMAIN IN SERVICE IMMEDIATELY AT NO ADDITIONAL COSTS OR EXPENSE TO THE COUNTY AND CITY.
9. REFER TO ELECTRICAL, COMMUNICATIONS AND OTHER DISCIPLINES FOR UTILITIES REQUIRING REMOVAL, COORDINATION AND/OR RELOCATION.
10. THE CONSTRUCTION CONTRACTOR SHALL INVESTIGATE, MARK, AND PROTECT IN PLACE, AS NEEDED, ALL APPLICABLE EXISTING UNDERGROUND UTILITIES THAT ARE TO REMAIN IN PLACE/SERVICE DURING CONSTRUCTION OPERATIONS THAT MAY BE SUBJECT TO DAMAGE DUE TO THE ONGOING CONSTRUCTION OPERATIONS.
11. CONTRACTOR SHALL SAW CUT THE LIMITS OF ASPHALT PAVEMENT TO BE REMOVED AND PROTECT EDGE OF ASPHALT FROM DAMAGE. ANY DAMAGE TO THE SAW CUT LINE SHALL REQUIRE THE CONTRACTOR TO RE-SAW CUT A NEW LINE BEFORE PLACEMENT OF NEW ASPHALT PAVEMENT.
12. ACTUAL AMOUNT OF ASPHALT PAVEMENT REMOVAL WILL VARY DEPENDING ON THE TYPE OF EQUIPMENT AND CONSTRUCTION TECHNIQUE USED BY THE CONTRACTOR FOR INSTALLATION OF THE NEW SITE LAYOUT.
13. THERE ARE STRUCTURES THAT HAVE BEEN PREVIOUSLY DEMOLISHED AS SHOWN ON THE CRITERIA DOCUMENT. IT IS NOT KNOWN TO WHAT EXTENT THAT DEMOLITION OCCURRED. REMAINING PORTIONS OF THOSE STRUCTURES MAY INTERFERE WITH THE CONSTRUCTION OF THE NEW LAYOUT AND MUST BE REMOVED TO THE EXTENT NECESSARY TO ACCOMPLISH THE NEW WORK.
14. CONTRACTOR SHALL RELOCATE ALL PALM TREES WHICH IS ABSOLUTELY REQUIRED FOR NEW CONSTRUCTION. PALM TREES SHALL BE RELOCATED AND APPROVED BY THE COUNTY AND CITY.

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
14191 PANAMA CITY BEACH PARKWAY SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-0150
FLORIDA CERTIFICATE OF AUTHORIZATION #00002945
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

DEMOLITION PLAN

C-102

NOTE:
SEE SHEET C-104 FOR GEOMETRY NOTES.

XX DENOTES GEOMETRIC POINT (SEE SHEET C-104 FOR GEOMETRIC DATA TABLES)

BM-6

BM-7

BENCHMARK (SEE DATA TABLE, SHT. C-101)

SCENIC HWY 98
EXISTING ASPHALT ROAD (TYP.)
(100' RIGHT-OF-WAY)

EXISTING CONCRETE PAVEMENT

EXISTING CURB AND GUTTER (TYP.)

RIGHT TURN ONLY SIGN

RELOCATE STOP BAR HERE

EXISTING STOP BAR (TO BE RELOCATED)

12" CONCRETE RIBBON CURB (TYP.)(SEE DETAILS, SHT. C-501)

CROSSWALK (TYP.)

DETECTABLE WARNING DOMES (TYP.)

10' (MIN.) FRONT LANDSCAPE BUFFER (TYP.)

CONCRETE SIDEWALK (TYP.)(SEE DETAILS, SHT. C-516)

SIDEWALK TRANSITION

DO NOT ENTER SIGN

STOP BAR

STOP SIGN AND RIGHT TURN ONLY SIGN

ONE WAY SIGN

CONCRETE RIBBON CURB (TYP.)

LANDSCAPE AREA (TYP.)

NO PARKING SIGN

EXISTING CONCRETE DRIVE (TYP.)

EXISTING 6' CONCRETE SIDEWALK (TYP.)

GOLF CART/LOW SPEED VEHICLE (LSV) ONLY SIGN

CROSSWALK (TYP.)

DETECTABLE WARNING DOMES (TYP.)

SIDEWALK TRANSITION

STOP SIGN AND RIGHT TURN ONLY SIGN

10' (MIN.) FRONT LANDSCAPE BUFFER (TYP.)

STOP BAR

12" CONCRETE RIBBON CURB (TYP.)(SEE DETAILS, SHT. C-501)

CONCRETE SIDEWALK (TYP.) (SEE DETAILS, SHT. C-516)

LANDSCAPE AREA (TYP.)

PROPERTY LINE (TYP.)

LANDSCAPE AREA (TYP.)

EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT (34 LSV SPACES) (SEE PAVEMENT SECTION, C-300)

17 LSV SPACES

17 LSV SPACES

6.5' (TYP.) 5.0' (TYP.) 12.0' (TYP.) 10.5' (TYP.) 10.5' (TYP.) 12.0' (TYP.) 5.0' (TYP.) 7.0'

CONCRETE SIDEWALK (TYP.)(SEE DETAILS, SHT. C-516)

5' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)

BOLLARD (TYP.)(9 REQ'D.) (SEE DETAILS, SHT. C-501)

1.5' (TYP.)

3.5' (TYP.)

BIKE RACK (5 SPACES) (SEE DETAILS, SHT. C-502)

RESTROOM FACILITY (SEE ARCHITECTURAL PLANS)

5' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)

LANDSCAPE AREA (TYP.)

PUBLIC SHOWER WITH FOOT WASH (TYP.)(3 REQ'D.) (SEE DETAILS, SHT. CU-502)

WOODEN DUNE WALKOVER (TYP.) (SEE STRUCTURAL PLANS)

CONCRETE SIDEWALK (SEE THICKENED EDGE CONCRETE SIDEWALK DETAIL SHEET C-300)

10'± 1.0' 20.0' (TYP.) 19.0' (TYP.) 19.0' (TYP.) 20.0' (TYP.) 19.0' (TYP.) 5.0' (TYP.) 6.0' (TYP.)

12" CONCRETE RIBBON CURB (TYP.) (SEE DETAILS, SHT. C-501)

NO PARKING SIGN

WEST ASPHALT PARKING LOT (19 STD SPACES) (1 ADA SPACE) (SEE PAVEMENT SECTION, C-300)

6 STD SPACES

6 STD SPACES

7 STD SPACES

9.0' (TYP.)

2.0' (TYP.)

39.00'

CONCRETE BUMPER GUARD (TYP.) (SEE DETAILS, SHT. C-515)

PROPERTY LINE (TYP.)

10.0'

12" CONCRETE RIBBON CURB (TYP.)(SEE DETAILS, SHT. C-501)

1 ADA ACCESSIBLE PARKING SPACE WITH PAVEMENT MARKINGS AND SIGNAGE (TYP.) (SEE DETAILS, SHTS. C-702 THRU C-705)

NO PARKING ZONE PAVEMENT MARKING (TYP.) (SEE DETAILS, SHT. C-701)

NO PARKING SIGN

BOLLARD (TYP.) (4 REQ'D.) (SEE DETAILS, SHT. C-501)

16' SINGLE ARM SWING GATE (BY OTHERS)

EMERGENCY VEHICLE ONLY SIGN

25.0'

12.0'

5.0'

3.5' (TYP.)

1.4' (TYP.)

BOLLARD (TYP.) (11 REQ'D.) (SEE DETAILS, SHT. C-501)

BIKE RACK (5 SPACES) (SEE DETAILS, SHT. C-502)

PROPERTY LINE (TYP.)

WOODEN STAIRS (TYP.)(SEE STRUCTURAL PLANS)

WOODEN ADA RAMP (TYP.) (SEE STRUCTURAL PLANS)

26.0'

16.0'

EXISTING COVERED PAVILION (TYP.)

EXISTING RESTROOM

EXISTING WOOD RAMP (TYP.)

GEOGRID EMERGENCY VEHICLE BEACH ACCESS DRIVE (SEE PAVEMENT SECTION, C-300)

SCALE: 1" = 10'

10' 5' 0' 10'

L:\121 Okaloosa County\12105.02 Shore at Crystal Beach Park Amendment\DWG\12105.02-Geometry.dwg, Aug 15, 2025 - 10:19:02AM, slucia

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FLORIDA CERTIFICATE OF AUTHORIZATION #00000670
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SEAL

SHORE AT CRYSTAL BEACH EXPANSION

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PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

GEOMETRY PLAN

C-103

GEOMETRIC POINT DATA TABLE

SYMBOL NO. XX	NORTHING	EASTING	DESCRIPTION
1	507844.94	1361151.28	CORNER OF EXISTING COVERED PAVILION
2	507841.30	1361208.51	CORNER OF EXISTING COVERED PAVILION
3	507809.44	1361206.18	CORNER OF EXISTING COVERED PAVILION
4	507813.64	1361149.01	CORNER OF EXISTING COVERED PAVILION
5	507980.41	1361125.16	℄ OF WEST ENTRANCE OF WEST ASPHALT PARKING LOT, TIE TO EXISTING SCENIC HWY 98 ASPHALT ROAD
6	507847.23	1361121.26	℄ OF WEST ENTRANCE OF WEST ASPHALT PARKING LOT AND EDGE OF BEACH ACCESS
7	507971.20	1361114.67	PC/PT OF 10' RADIUS FOR WEST ENTRANCE OF WEST ASPHALT PARKING LOT
8	507940.13	1361151.36	℄ OF WEST PARKING LOT STRIPING FOR WEST PARKING AREA
9	507848.41	1361105.30	WEST ASPHALT PARKING LOT AND FACE OF RIBBON CURB
10	507845.67	1361141.37	WEST ASPHALT PARKING LOT, FACE OF RIBBON CURB AND WOODEN BOARDWALK STAIRS
11	507851.63	1361141.81	WEST ASPHALT PARKING LOT AND WOODEN BOARDWALK STAIRS
12	507847.68	1361202.52	WEST ASPHALT PARKING LOT, CONCRETE SIDEWALK AND WOODEN BOARDWALK ADA RAMP
13	507935.79	1361209.25	WEST ASPHALT PARKING LOT, CONCRETE SIDEWALK AND FACE OF RIBBON CURB
14	507936.74	1361196.27	PC/PT OF 6' RADIUS FOR EAST ENTRANCE OF WEST ASPHALT PARKING LOT AND FACE OF RIBBON CURB
15	507943.19	1361190.72	PC/PT OF 6' RADIUS FOR EAST ENTRANCE OF WEST ASPHALT PARKING LOT AND FACE OF RIBBON CURB
16	507964.77	1361192.52	PC/PT OF 10' RADIUS FOR EAST ENTRANCE OF WEST ASPHALT PARKING LOT
17	507973.89	1361203.41	PC/PT OF 10' RADIUS FOR EAST ENTRANCE OF WEST ASPHALT PARKING LOT, TIE TO EXISTING SCENIC HWY 98 ASPHALT ROAD
18	507975.90	1361183.19	℄ OF EAST ENTRANCE OF WEST ASPHALT PARKING LOT, TIE TO EXISTING SCENIC HWY 98 ASPHALT ROAD
19	507849.53	1361173.59	℄ OF EAST ENTRANCE OF WEST ASPHALT PARKING LOT AND WOODEN BOARDWALK ADA RAMP
20	507977.59	1361163.36	PC/PT OF 10' RADIUS FOR EAST ENTRANCE OF WEST ASPHALT PARKING LOT, TIE TO EXISTING SCENIC HWY 98 ASPHALT ROAD
21	507966.91	1361172.48	PC/PT OF 10' RADIUS FOR EAST ENTRANCE OF WEST ASPHALT PARKING LOT
22	507947.74	1361171.05	PC/PT OF 9' RADIUS FOR EAST ENTRANCE OF WEST ASPHALT PARKING LOT AND FACE OF RIBBON CURB
23	507939.35	1361161.39	PC/PT OF 9' RADIUS FOR EAST ENTRANCE OF WEST ASPHALT PARKING LOT AND FACE OF RIBBON CURB
24	507940.91	1361141.40	PC/PT OF 9' RADIUS FOR WEST ENTRANCE OF WEST ASPHALT PARKING LOT AND FACE OF RIBBON CURB
25	507950.56	1361133.14	PC/PT OF 9' RADIUS FOR WEST ENTRANCE OF WEST ASPHALT PARKING LOT AND FACE OF RIBBON CURB
26	507970.07	1361134.66	PC/PT OF 10' RADIUS FOR WEST ENTRANCE OF WEST ASPHALT PARKING LOT AND FACE OF EXISTING CONCRETE SIDEWALK

GEOMETRIC POINT DATA TABLE

SYMBOL NO. XX	NORTHING	EASTING	DESCRIPTION
27	507979.35	1361144.71	PC/PT OF 10' RADIUS FOR WEST ENTRANCE OF WEST ASPHALT PARKING LOT, TIE TO EXISTING SCENIC HWY 98 ASPHALT ROAD
28	507826.04	1361314.30	℄ OF EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT, TIE TO EXISTING SCENIC HWY 98 ASPHALT ROAD
29	507823.32	1361314.08	℄ OF EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT AND RESTROOM FACILITY
30	507965.62	1361299.94	PC/PT OF 17' RADIUS FOR EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT, TIE TO EXISTING SCENIC HWY 98 ASPHALT ROAD
31	507947.25	1361315.34	PC/PT OF 17' RADIUS FOR EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT AND FACE OF RIBBON CURB
32	507934.33	1361314.25	PC/PT OF 6' RADIUS FOR EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT AND FACE OF RIBBON CURB
33	507928.89	1361307.82	PC/PT OF 6' RADIUS FOR EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT AND FACE OF RIBBON CURB
34	507929.50	1361300.30	EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT, CONCRETE SIDEWALK AND FACE OF RIBBON CURB
35	507803.25	1361289.84	CONCRETE SIDEWALK, LANDSCAPED AREA AND WOODEN BOARDWALK
36	507801.96	1361305.37	LANDSCAPED AREA, WOODEN BOARDWALK AND CORNER OF RESTROOM FACILITY
37	507826.59	1361307.34	EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT AND CORNER OF RESTROOM FACILITY
38	507824.16	1361336.72	EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT, CONCRETE SIDEWALK AND CORNER OF RESTROOM FACILITY
39	507799.53	1361334.68	CONCRETE SIDEWALK, WOODEN BOARDWALK AND CORNER OF RESTROOM FACILITY
40	507925.79	1361345.15	EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT, CONCRETE SIDEWALK AND FACE OF RIBBON CURB
41	507926.36	1361337.65	PC/PT OF 6' RADIUS FOR EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT AND FACE OF RIBBON CURB
42	507932.87	1361332.18	PC/PT OF 6' RADIUS FOR EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT AND FACE OF RIBBON CURB
43	507945.66	1361333.25	PC/PT OF 17' RADIUS FOR EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT AND FACE OF RIBBON CURB
44	507961.20	1361351.48	PC/PT OF 17' RADIUS FOR EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT, TIE TO EXISTING SCENIC HWY 98 ASPHALT ROAD
45	507958.35	1361344.87	CORNER OF PROPOSED CONCRETE SIDEWALK
46	507946.47	1361343.85	CORNER OF PROPOSED CONCRETE SIDEWALK
47	507938.18	1361346.17	CORNER OF PROPOSED CONCRETE SIDEWALK
48	507941.88	1361301.66	CORNER OF PROPOSED CONCRETE SIDEWALK
49	507949.16	1361310.53	CORNER OF PROPOSED CONCRETE SIDEWALK
50	507958.04	1361311.23	CORNER OF PROPOSED CONCRETE SIDEWALK

NOTES:

1. SEE SHEET C-101 FOR SURVEY BENCHMARKS, SURVEY SYMBOL LEGEND AND ABBREVIATION LEGEND.
2. SEE SHEETS C-103 AND C-104 FOR GEOMETRY PLANS AND DATA TABLES.
3. SEE SHEETS C-105 THRU C-107 FOR GRADING AND DRAINAGE PLANS AND DATA TABLES.
4. SEE SHEETS C-513 THRU C-516 FOR FDOT STANDARD DETAILS.
5. SEE STRUCTURAL PLANS FOR WOODEN BOARDWALK GEOMETRY AND DETAILS.
6. SEE SHEETS C-700 THRU C-705 FOR STRIPING AND SIGNAGE PLAN AND FDOT STANDARD DETAILS.
7. SEE SHEETS CU-101 THRU CU-504 FOR WATER AND SANITARY SEWER PLAN AND DETAILS.

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EB #0000647 LB #0000647
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

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DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

GEOMETRIC DATA TABLES

C-104

NOTE:

SEE SHEET C-107 FOR GRADING AND STORM DRAINAGE NOTES.

S-XX DENOTES STORM DRAINAGE STRUCTURE

P-X DENOTES STORM DRAINAGE PIPE

BM-6

BM-7

BENCHMARK (SEE DATA TABLE, SHT. C-101)

SCENIC HWY 98
EXISTING ASPHALT ROAD (TYP.)
(100' RIGHT-OF-WAY)

EXISTING CONCRETE PAVEMENT

EXISTING CURB AND GUTTER (TYP.)

MATCH EXISTING (20.21±)

MATCH EXISTING (20.72±)

MATCH EXISTING (20.67±)

MATCH EXISTING (20.68±)

MATCH EXISTING (20.68±)

MATCH EXISTING (20.63±)

CONCRETE SIDEWALK (TYP.)

MATCH EXISTING (20.13±)

MATCH EXISTING (20.94±)

MATCH EXISTING (21.17±)

10' (MIN.) FRONT LANDSCAPE BUFFER (TYP.)

MATCH EXISTING (21.22±)

MATCH EXISTING (20.75±)

MATCH EXISTING (20.66±)

MATCH EXISTING (20.72±)

MATCH EXISTING (20.53±)

MATCH EXISTING (20.40±)

EXISTING CONCRETE DRIVE (TYP.)

EXISTING CONCRETE SIDEWALK (TYP.)

MATCH EXISTING (20.33±)

MATCH EXISTING (20.42±)

MATCH EXISTING (20.36±)

MATCH EXISTING (20.72±)

MATCH EXISTING (20.53±)

MATCH EXISTING (20.04±)

MATCH EXISTING (20.74±)

20.58

20.41

20.45

ROW

MATCH EXISTING (20.39±)

MATCH EXISTING (20.27±)

MATCH EXISTING (20.05±)

20.20

20.16

20.11

20.13

20.00

19.97

19.94

LANDSCAPE AREA (TYP.)

IRRIGATION WELL AND ELECTRICAL CONTROL PANEL

CONCRETE RIBBON CURB (TYP.)

10' (MIN.) FRONT LANDSCAPE BUFFER (TYP.)

EXISTING CONCRETE RETAINING WALL (TYP.)

EXISTING CONCRETE RETAINING WALL (TYP.)

20.02

20.07

20.00

CONC: 20.12
ASP: 19.79

19.79

19.79

19.79

CONCRETE RIBBON CURB (TYP.)

LANDSCAPE AREA (TYP.)

20.00

CONC: 20.12
ASP: 19.79

ADS STORM TECH CHAMBER SYSTEM (TYP.)(SEE SHT. C-107, NOTE 6)

ADS STORM TECH CHAMBER SYSTEM (TYP.)(SEE SHT. C-107, NOTE 6)

CONCRETE RIBBON CURB (TYP.)

5' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)

CONCRETE SIDEWALK (TYP.)

EXISTING BRICK DRIVE (TYP.)

EXISTING 2-STORY STUCCO GARAGE

LANDSCAPE AREA (TYP.)

COASTAL CONSTRUCTION CONTROL LINE (CCCL)

S-3

FDOT TYPE 8 STORMDRAIN MANHOLE WITH WEEP HOLE AND WEIR (TYP.) (SEE SHT. C-107, NOTE 6)

EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT (SEE PAVEMENT SECTION, C-300)

FDOT TYPE 8 STORMDRAIN MANHOLE WITH WEEP HOLE AND WEIR (TYP.) (SEE SHT. C-107, NOTE 6)

S-6

P-4

STORMDRAIN PIPE (TYP.)

WEST ASPHALT PARKING LOT (SEE PAVEMENT SECTION, C-300)

P-2

STORMDRAIN PIPE (TYP.)

S-5

COASTAL CONSTRUCTION CONTROL LINE (CCCL)

20.28

20.70

PROPERTY LINE (TYP.)

12" CONCRETE RIBBON CURB

EXISTING WATER LINE (TYP.) (APPROX. LOCATION)

CONC: 20.40
ASP: 20.07

CONC: 20.40
ASP: 20.07

CONCRETE SIDEWALK (TYP.)

6' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)

19.29

19.41

19.17

19.29

EXISTING CONCRETE RETAINING WALL (TYP.)

5' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)

P-1

S-2

P-3

10' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)

S-1

BOLLARD (TYP.)

LANDSCAPE AREA (TYP.)

CONC: 20.58
ASP: 20.25

20.46

19.46

CONC: 20.58
ASP: 20.25

20.46

19.46

S-4

FDOT TYPE C GRATE INLET (TYP.) (SEE DETAILS, SHTS. C-513 THRU C-515)

MATCH EXISTING (TYP.)

ASP: 19.04

BIKE RACK

ASP: 18.28

ASP: 18.40

ASP: 19.18

19.40

19.40

19.40

WATER SERVICE WITH VALVES, BACKFLOW PREVENTOR AND WATER METER (TYP.)

EXISTING 3-STORY STUCCO RESIDENCE

SANITARY SEWER LINE WITH CLEANOUTS (TYP.)

BOLLARD (TYP.)

CONC: 21.00
ASP: 20.67

20.09

20.02

19.88

20.89

21.26

20.26

BIKE RACK

RESTROOM FACILITY
FFE: 21.50
(SEE ARCHITECTURAL PLANS)

21.38

21.48

21.26

20.26

17.80

WOODEN STAIRS (TYP.) (SEE STRUCTURAL PLANS)

BOLLARD (TYP.)

WOODEN ADA RAMP (TYP.) (SEE STRUCTURAL PLANS)

PROPERTY LINE (TYP.)

GEOGRID EMERGENCY VEHICLE BEACH ACCESS DRIVE (SEE PAVEMENT SECTION, C-300)

EXISTING SANITARY SEWER LINE (TYP.) (APPROX. LOCATION)

EXISTING COVERED PAVILION (TYP.) FFE: 22.0±

EXISTING PALM TREE (TYP.)

20.47

20.80

21.00

21.38

21.00

PROPERTY LINE (TYP.)

LANDSCAPE AREA (TYP.)

20.38

20.50

PUBLIC SHOWER WITH FOOT WASH (TYP.)

20.88

EXISTING RESTROOM

EXISTING WOOD RAMP (TYP.)

EXISTING WOOD DECK (TYP.)

CONCRETE SIDEWALK

WOODEN DUNE WALKOVER (TYP.) (SEE STRUCTURAL PLANS)

SCALE: 1" = 10'

10' 5' 0' 10'

L:\121 Okaloosa County\12105.02 Shore at Crystal Beach Park Amendment\DWG\12105.02-Grading and Drainage.dwg, Aug 12, 2025 - 1:43:28PM, slucia

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1410 I PANAMA CITY BEACH PARKWAY, SUITE 110,
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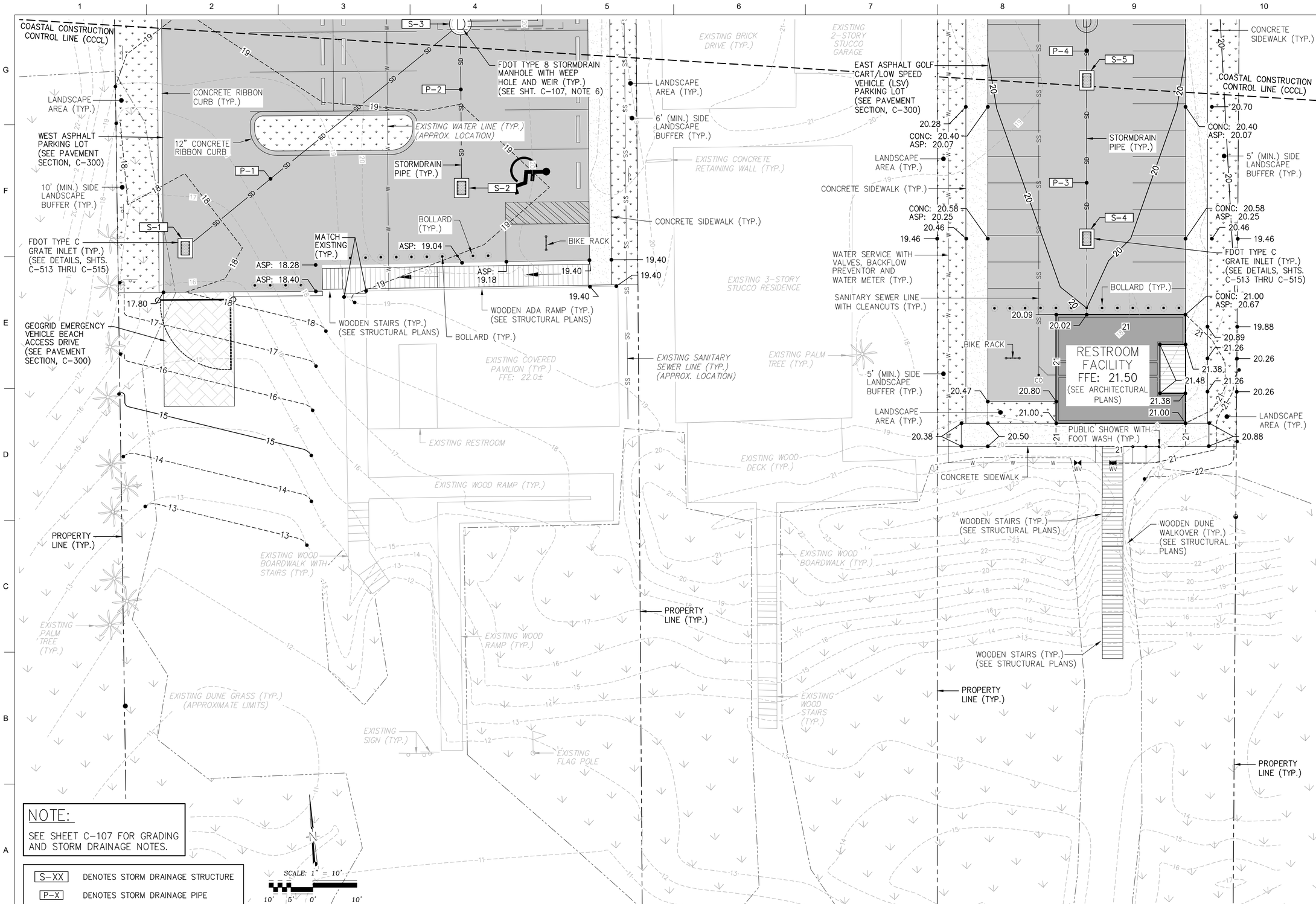
DATE: AUGUST 2025

GRADING AND STORM DRAINAGE PLAN

C-105



BASKERVILLE-DONOVAN, INC.
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ENGINEERING BUSINESS: EB-0000340
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SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

GRADING AND STORM DRAINAGE PLAN

C-106

L:\121 Okaloosa County\12105.02 Shore at Crystal Beach Park Amendment\DWG\12105.02-Grading and Drainage.dwg, Aug 12, 2025 - 1:43:49PM, slucia

100% SUBMITTAL

NOTES:

1. SEE SHEET C–101 FOR SURVEY BENCHMARKS, SURVEY SYMBOL LEGEND AND ABBREVIATION LEGEND.
2. SEE SHEETS C–105 AND C–106 FOR GRADING AND STORM DRAINAGE PLANS.
3. CONTRACTOR TO USE CAUTION WHEN DIGGING NEAR EXISTING UTILITIES AND MAY BE REQUIRED TO HAND DIG IN SOME AREAS. CONTRACTOR MAY BE REQUIRED TO TEMPORARILY SUPPORT EXISTING UTILITIES WHILE INSTALLING STORM DRAINAGE PIPES.
4. NORTHING AND EASTING COORDINATES BASED ON CENTER OF INLETS AND CENTER OF MANHOLES.
5. PIPE LENGTHS SHOWN ARE FROM CENTER TO CENTER OF STRUCTURES.
6. CONTRACTOR SHALL PROVIDE FDOT STORMDRAIN MANHOLE WITH WEEP HOLE. STRUCTURE INVERT ELEVATION SHALL BE AS IDENTIFIED IN THE STORM DRAINAGE STRUCTURE DATA TABLE. SEE SHEETS C–513 AND C–514 FOR FDOT TYPE 8 STORMDRAIN MANHOLE DETAILS, SEE SHEETS C–503 THRU C–512 FOR ADS STORM TECH CHAMBER SYSTEM DETAILS, AND SEE SHEET C–513 FOR WEEP HOLE DETAILS.

S–XX — DENOTES STORM DRAINAGE STRUCTURE (SEE TABLE FOR TYPE AND LOCATION)

P–X — DENOTES STORM DRAINAGE PIPE (SEE TABLE FOR TYPE AND SIZE)

STORM DRAINAGE PIPE DATA TABLE

PIPE NO. P–XX	SIZE (IN)	TYPE	LENGTH (FT)	SLOPE (%)	INV. US (FT)	INV. DS (FT)	PIPE CLASS
P–1	15	RCP	80.78	0.5	13.20	12.80	III
P–2	15	RCP	37.34	0.5	14.50	14.31	III
P–3	15	RCP	36.00	0.5	15.50	15.37	III
P–4	15	RCP	13.40	0.75	15.37	15.27	III

INV. US – DENOTES INVERT UP STREAM

INV. DS – DENOTES INVERT DOWN STREAM

RCP – DENOTES REINFORCED CONCRETE PIPE

STORM DRAINAGE STRUCTURE DATA TABLE

STRUCTURE NO. S–XX	TYPE	NORTHING	EASTING	TOP (T); GRATE (G); (FT)	NORTH INV. (FT)	SOUTH INV. (FT)	SOUTH WEST INV. (FT)	NORTH EAST INV. (FT)
S–1	FDOT TYPE C GRATE INLET	507858.02	1361111.09	(G) 17.48	–	–	–	13.20
S–2	FDOT TYPE C GRATE INLET	507866.48	1361174.87	(G) 18.70	14.50	–	–	–
S–3 (SEE NOTE 9)	FDOT TYPE 8 STORMDRAIN MANHOLE WITH WEEP HOLE AND WEIR	507903.71	1361177.71	(T) 19.32	10.82	14.31	12.80	–
S–4	FDOT TYPE C GRATE INLET	507843.25	1361315.73	(G) 19.80	15.50	–	–	–
S–5	FDOT TYPE C GRATE INLET	507879.12	1361318.70	(G) 19.20	15.37	15.37	–	–
S–6 (SEE NOTE 9)	FDOT TYPE 8 STORMDRAIN MANHOLE WITH WEEP HOLE AND WEIR	507892.46	1361319.84	(T) 19.36	10.94	15.27	–	–

ADS – DENOTES ADVANCED DRAINAGE SYSTEM (ADS) PIPES FOR ADS STORM TECH CHAMBER SYSTEM. SEE DETAILS, SHTS. C–503 THRU C–512.

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PROJ. MGR: JCP
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STORM DRAINAGE DATA TABLES AND NOTES

C-107

SCALE: 1" = 20'

20' 10' 0' 20'

PROPERTY LINE (TYP.)

EXISTING PALM TREE (TYP.)

EXISTING DUNE GRASS (TYP.) (APPROXIMATE LIMITS)

SITE SECTION "A" (SEE SHEET C-109)

LOT LINE (TYP.)

EXISTING WOOD BOARDWALK WITH STAIRS (TYP.)

EXISTING RESTROOM

0+00 1+00 2+00 3+00 4+00 5+00

LOT 1

EXISTING FLAG POLE

EXISTING WOOD RAMP (TYP.)

EXISTING COVERED PAVILION (TYP.) FFE: 22.0±

MEAN HIGH WATER LINE

EXISTING EDGE OF WATER ON 6/4/24 (TYP.)

PROPERTY LINE (TYP.)

EXISTING SANITARY SEWER LINE (TYP.) (APPROX. LOCATION)

CONCRETE SIDEWALK (TYP.)

FDOT GRATE INLET WITH STORMDRAIN PIPE (TYP.)

COASTAL CONSTRUCTION CONTROL LINE (CCCL)

EXISTING CONCRETE SIDEWALK (TYP.)

EXISTING WATER LINE (TYP.) (APPROX. LOCATION)

ADS STORM TECH CHAMBER SYSTEM WITH STORMDRAIN MANHOLE (TYP.)

EXISTING CONCRETE RETAINING WALL

SCENIC HWY 98

EXISTING ASPHALT ROAD (TYP.) (100' RIGHT-OF-WAY)

RIGHT-OF-WAY LINE (TYP.)

ROW

BM-6

HUTCHINSON STREET

EXISTING ASPHALT ROAD (TYP.)

BENCHMARK (SEE DATA TABLE, SHT. C-101)

BM-7

SITE SECTION "B" (SEE SHEET C-110)

10+00 11+00 12+00 13+00 14+00 15+00

LOT 2

WATER SERVICE WITH VALVES, BACKFLOW PREVENTOR AND WATER METER (TYP.)

ADS STORM TECH CHAMBER SYSTEM WITH STORMDRAIN MANHOLE (TYP.)

SANITARY SEWER LINE WITH CLEANOUTS (TYP.)

EXISTING CONCRETE SIDEWALK (TYP.)

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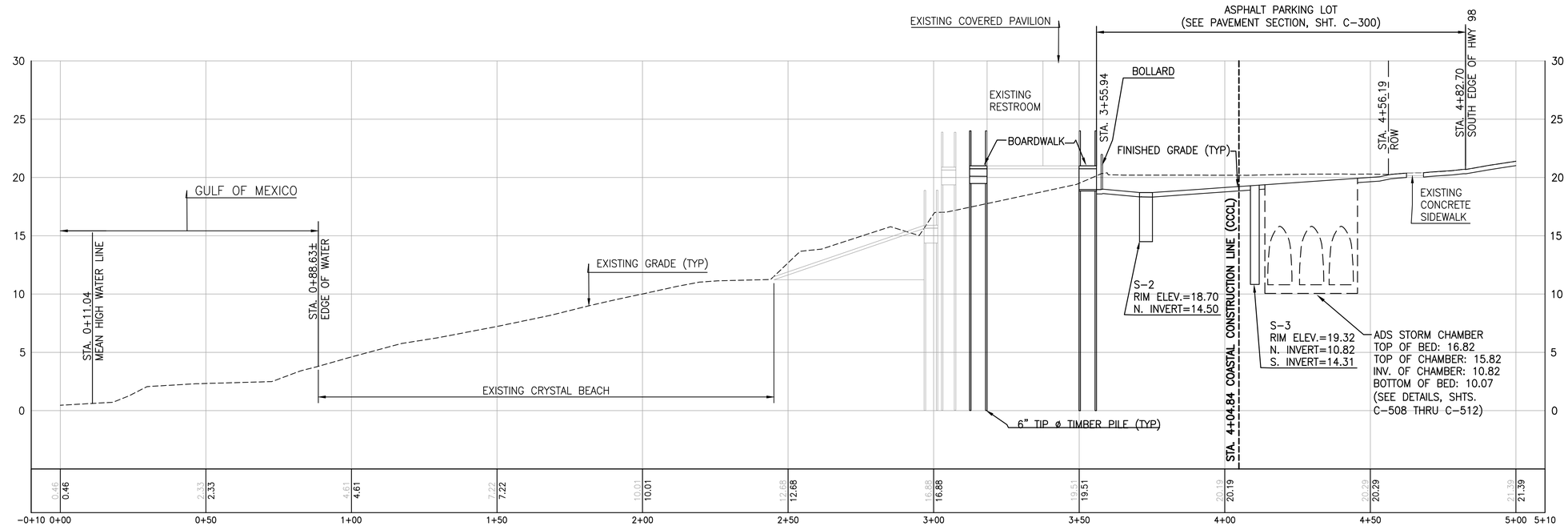
GRADING OVERVIEW

C-108



SITE SECTION "A"

SCALE: 1" = 20' HORIZ.
1" = 5' VERT.

HORIZONTAL
SCALE: 1" = 20'
20' 10' 0' 20'

VERTICAL
SCALE: 1" = 5'
5' 2.5' 0' 5'

EARTHWORK DATA TABLE	
EXCAVATION	12,000 CF
FILL	12,000 CF

NOTE: EXCAVATION AND FILL QUANTITIES ARE WORKS PERFORMED SEAWARD OF COASTAL CONSTRUCTION CONTROL LINE (CCCL)

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DATE: AUGUST 2025

SITE SECTION 'A'

C-109

L:\121 Okaloosa County\12105.02 Shore at Crystal Beach Park Amendment\DWG\12105.02-Section Views.dwg, Aug 15, 2025 - 11:30:47AM, slucia

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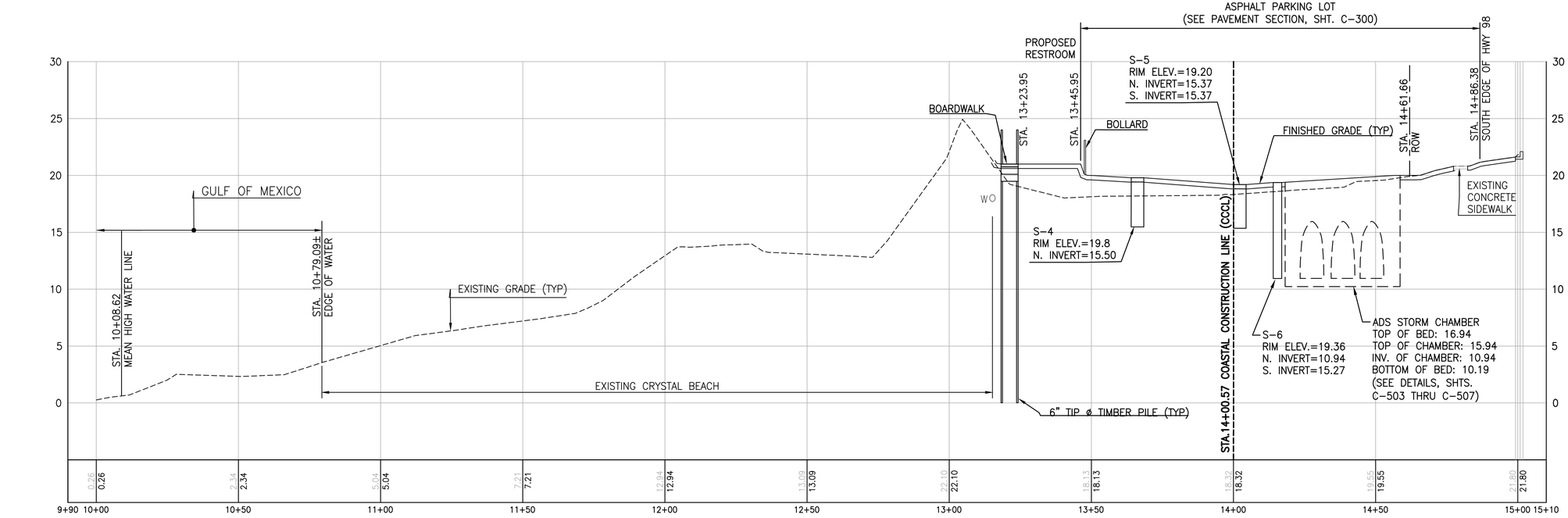

SITE SECTION "B"

SCALE: 1" = 20' HORIZ.
1" = 5' VERT.

HORIZONTAL
SCALE: 1" = 20'
20' 10' 0' 20'

VERTICAL
SCALE: 1" = 5'
5' 2.5' 0' 5'

EARTHWORK DATA TABLE	
EXCAVATION	11,100 CF
FILL	11,100 CF

NOTE: EXCAVATION AND FILL QUANTITIES ARE WORKS PERFORMED SEAWARD OF COASTAL CONSTRUCTION CONTROL LINE (CCCL)

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SITE SECTION 'B'

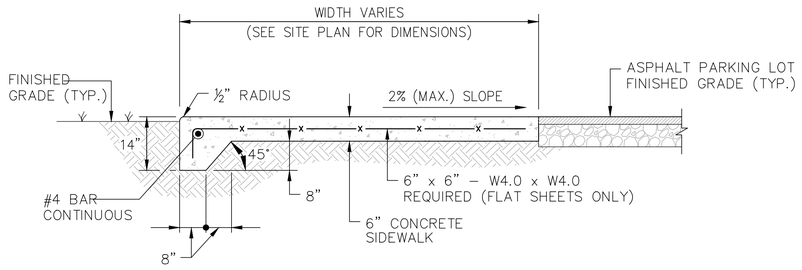
C-110

GENERAL NOTES:

1. ASPHALT (FLEXIBLE PAVEMENT) SHALL BE SP12.5 SUPER PAVE WITH REINFORCING FIBER (1LB./TON)

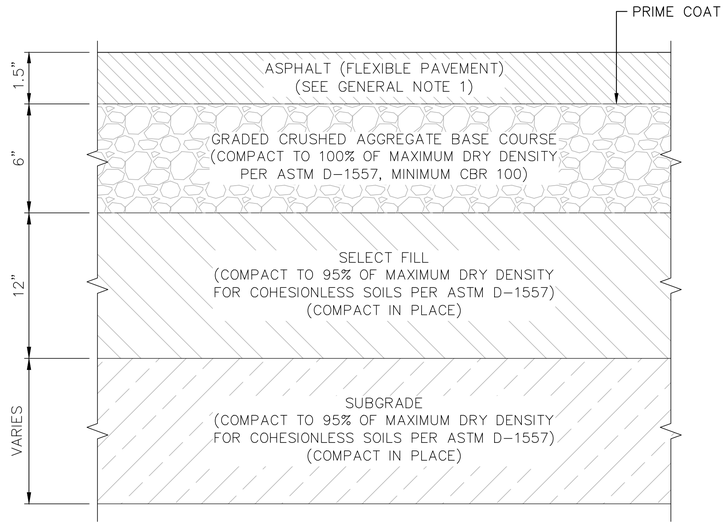
NOTES TO CONTRACTOR:

1. IN THE AREAS OF NEW PAVEMENTS WHERE THERE ARE NO EXISTING PAVEMENTS; CUT AND FILL MUST BE CONSIDERED. VOLUMES OF EARTHWORK MATERIAL TO BE CUT OR FILLED IN THESE AREAS ARE BASED ON NEW PAVEMENT, BASE COURSE AND COMPACTED SUBGRADE REQUIREMENTS. IF THE AREA IS IN CUT, ADDITIONAL EARTHWORK MATERIAL MUST BE REMOVED EQUAL TO THE NEW PAVEMENT STRUCTURE INCLUDING THE COMPACTED SUBGRADE. IF THE AREA IS IN FILL (BASED ON THE PROFILES AND FINISHED GRADES SHOWN) ADDITIONAL EXCAVATION MAYBE NECESSARY TO REACH THE REQUIRED DEPTH FOR THE NEW PAVEMENT STRUCTURE UNDERCUT REQUIREMENT(S).



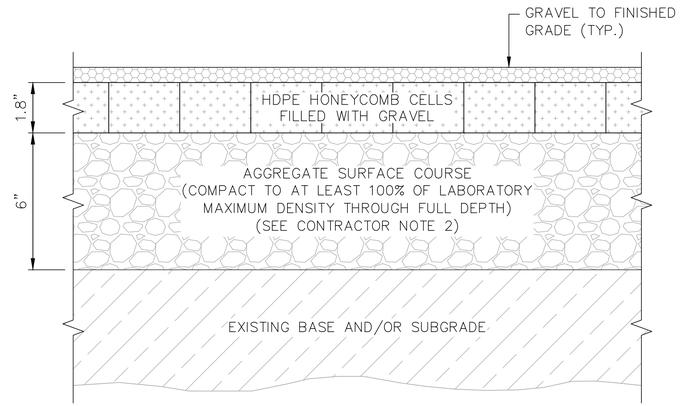
THICKENED EDGE CONCRETE SIDEWALK DETAIL

N.T.S.



WEST ASPHALT PARKING LOT AND EAST ASPHALT GOLF CART/LOW SPEED (LSV) PARKING LOT PAVEMENT SECTION

N.T.S.



GEOGRID EMERGENCY VEHICLE BEACH ACCESS DRIVE PAVEMENT SECTION

N.T.S.

NOTES:

1. SEE *TRUEGRIDPAVER.COM* FOR MATERIAL AND INSTALLATION GUIDELINES (TRUEGRID PAVERS BASIS OF DESIGN OR APPROVED EQUAL).

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TYPICAL PAVEMENT SECTIONS

C-300

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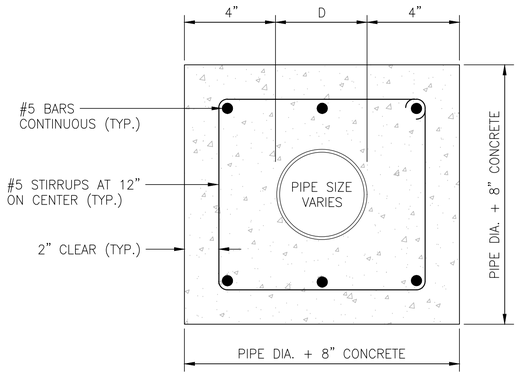
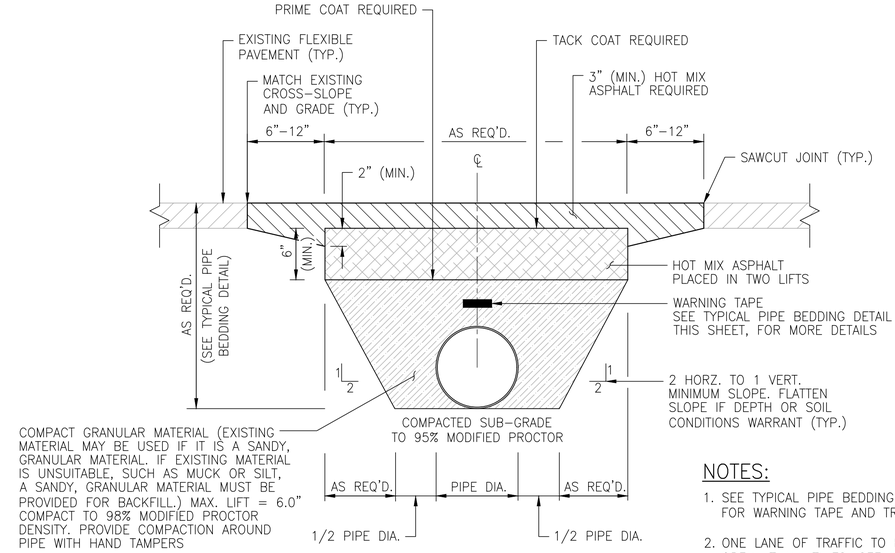


NOTES:

1. ALL ENCASEMENTS SHALL EXTEND 3 FEET BEYOND THE EDGE OF ALL ASPHALT SHOULDERS.
2. FOR PIPE LESS THAN 6" ø, ADJUST DIMENSIONS OF ENCASEMENT TO ENSURE A MINIMUM OF 4" OF CONCRETE ON ALL SIDES OF PIPE.

REINFORCED CONCRETE ENCASEMENT DETAIL

N.T.S.

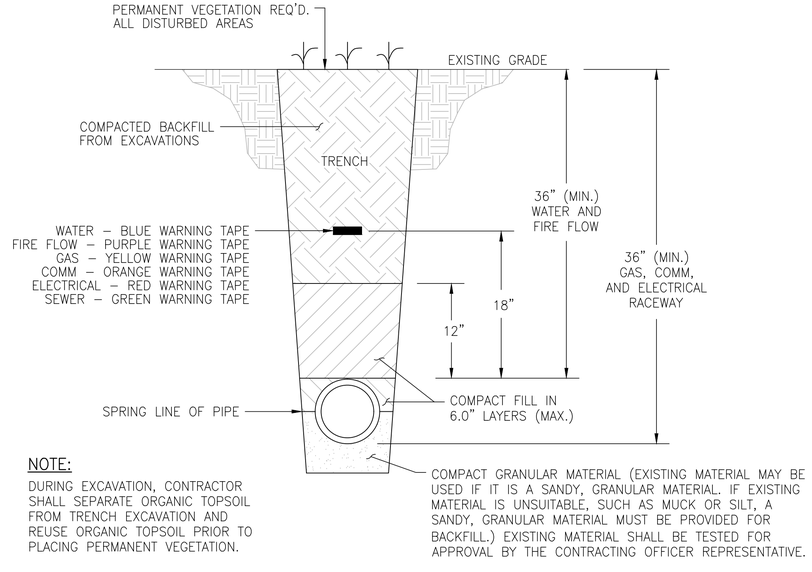


NOTES:

1. SEE TYPICAL PIPE BEDDING DETAIL FOR WARNING TAPE AND TRACER WIRE.
2. ONE LANE OF TRAFFIC TO BE LEFT OPEN AT ALL TIMES. SEE LANE CLOSURE DETAILS THIS SHEET.

OPEN CUT AND PATCH DETAIL; EXISTING FLEXIBLE PAVEMENT

N.T.S.



NOTE:

DURING EXCAVATION, CONTRACTOR SHALL SEPARATE ORGANIC TOPSOIL FROM TRENCH EXCAVATION AND REUSE ORGANIC TOPSOIL PRIOR TO PLACING PERMANENT VEGETATION.

TYPICAL PIPE BEDDING NON-PAVED AREAS

N.T.S.

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MISCELLANEOUS DETAILS

C-500

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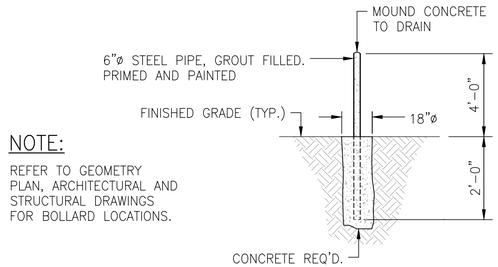
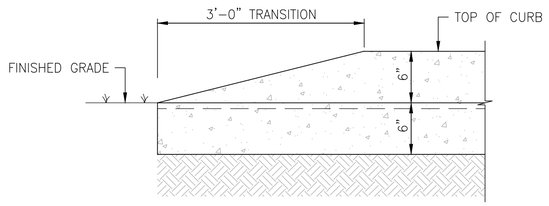


NOTE:

REFER TO GEOMETRY PLAN, ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BOLLARD LOCATIONS.

ELEVATION
N.T.S.

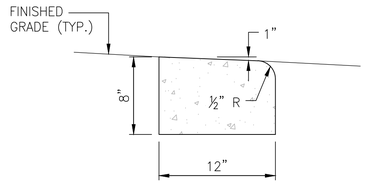
PIPE BOLLARD DETAILS
N.T.S.



NOTE:

PROVIDE MITER AT END OF CURB NOT JOINED TO EXISTING CURB OR SIDEWALK (TYP.) ALL LOCATIONS.

MITERED CURB DETAIL
N.T.S.



CONCRETE RIBBON CURB DETAIL
N.T.S.

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MISCELLANEOUS DETAILS

C-501

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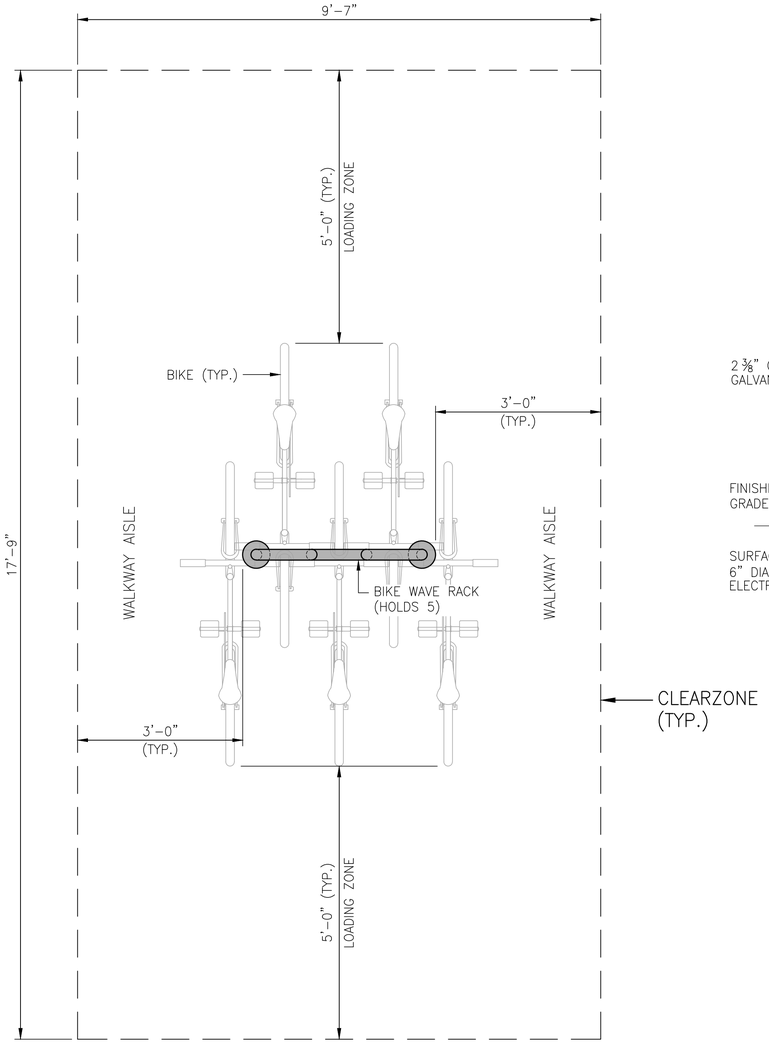
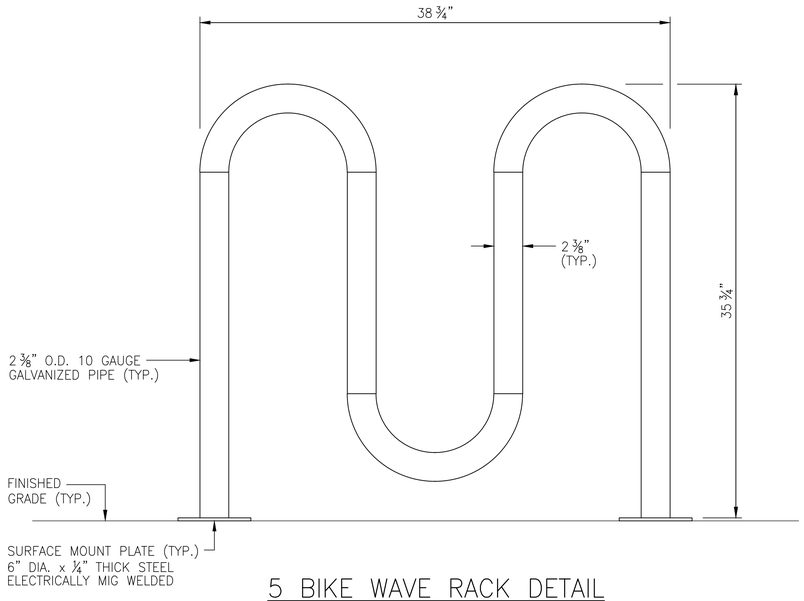
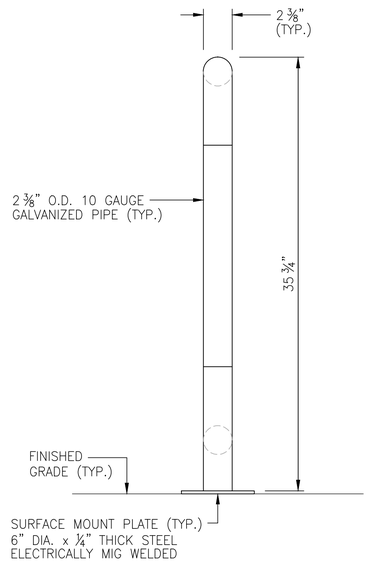


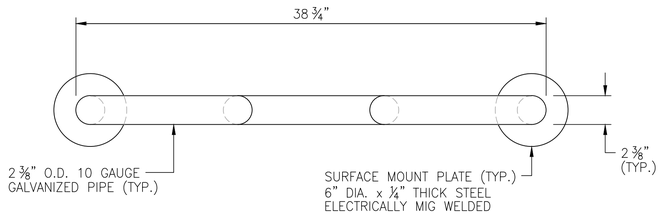
5 BIKE WAVE RACK
CLEARZONE DETAIL
(PLAN VIEW)
N.T.S.



5 BIKE WAVE RACK DETAIL
(FRONT ELEVATION)
N.T.S.



5 BIKE WAVE RACK DETAIL
(SIDE ELEVATION)
N.T.S.



5 BIKE WAVE RACK DETAIL
(PLAN VIEW)
N.T.S.

NOTES:

1. RECOMMENDED SURFACE MOUNT HARDWARE: ⅜" x 3½" CONCRETE EXPANSION ANCHOR BOLTS.
2. FRAMEWORK SHALL BE FABRICATED FROM 2 ⅜" O.D. 10 GAUGE GALVANIZED PIPE.
3. POWDER COATED OR HOT DIPPED GALVANIZED.

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SHORE AT CRYSTAL
BEACH EXPANSION

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BIKE RACK DETAILS

C-502

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PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO.	

Advanced Drainage Systems, Inc.

SiteAssist™
FOR STORMTECH
INSTALLATION INSTRUCTIONS
VISIT OUR APP

CRYSTAL BEACH - EAST

DESTIN, FL, USA

MC-7200 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-7200.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
10. MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
11. ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-7200 CHAMBER SYSTEM

1. STORMTECH MC-7200 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-7200 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.
9. STONE SHALL BE BROUGHT UP EVENLY AROUND CHAMBERS SO AS NOT TO DISTORT THE CHAMBER SHAPE. STONE DEPTHS SHOULD NEVER DIFFER BY MORE THAN 12" (300 mm) BETWEEN ADJACENT CHAMBER ROWS.
10. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
11. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIAL BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
12. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH MC-7200 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
2. THE USE OF EQUIPMENT OVER MC-7200 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-7200 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

NOTES

THE BASIS OF DESIGN FOR THE UNDERGROUND STORMWATER DETENTION SYSTEM IS THE ADS MC-7200 STORMTECH CHAMBER SYSTEM. IF A DIFFERENT UNDERGROUND STORMWATER DETENTION SYSTEM IS SELECTED, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THE OVERALL FUNCTION OF THE SYSTEM.

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SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
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PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR.: JCP
DATE: AUGUST 2025

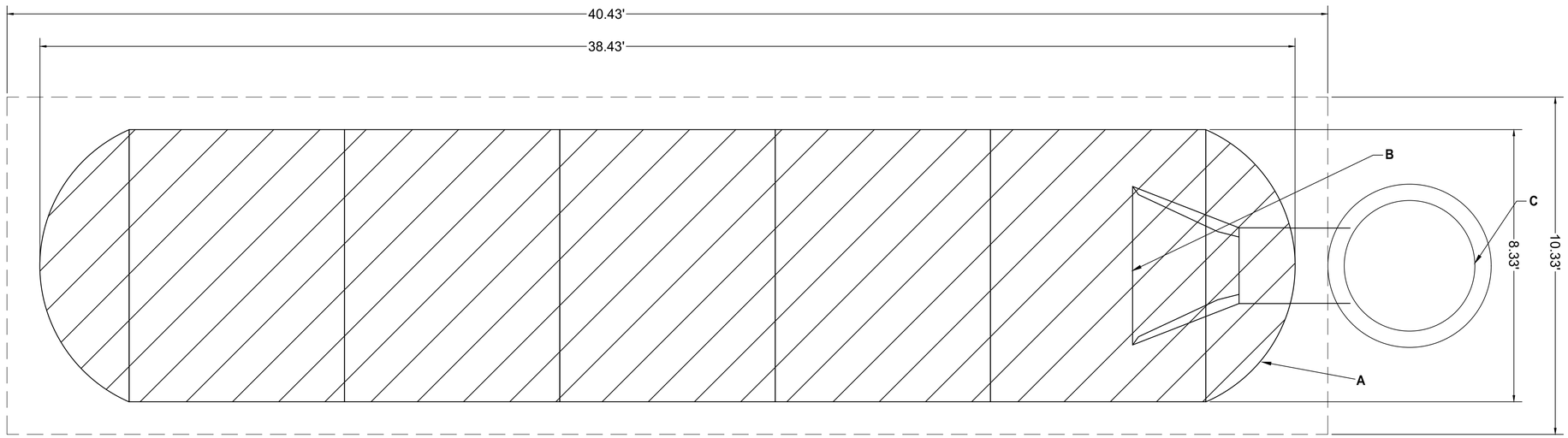
ADS STORM TECH CHAMBER SYSTEM NOTES
(EAST ASPHALT PARKING LOT)

C-503

PROPOSED LAYOUT		CONCEPTUAL ELEVATIONS	
5	STORMTECH MC-7200 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	12.75
2	STORMTECH MC-7200 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	8.25
12	STONE ABOVE (in)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	7.75
9	STONE BELOW (in)	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	7.75
40	STONE VOID	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	7.75
1703	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)	TOP OF STONE:	6.75
		TOP OF MC-7200 CHAMBER:	5.75
		24" ISOLATOR ROW PLUS INVERT:	0.94
		BOTTOM OF MC-7200 CHAMBER:	0.75
418	SYSTEM AREA (SF)	BOTTOM OF STONE:	0.00
101.5	SYSTEM PERIMETER (ft)		

*INVERT ABOVE BASE OF CHAMBER

PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
PREFABRICATED END CAP	A	24" BOTTOM PARTIAL CUT END CAP, PART#: MC7200IEPP24B / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	2.26"	
FLAMP	B	INSTALL FLAMP ON 24" ACCESS PIPE / PART#: MCFLAMP		
CONCRETE STRUCTURE	C	(DESIGN BY ENGINEER / PROVIDED BY OTHERS)		



ISOLATOR ROW PLUS (SEE DETAIL)

NO WOVEN GEOTEXTILE

BED LIMITS

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NOTES

- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- **NOT FOR CONSTRUCTION**: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

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ADS STORM TECH CHAMBER SYSTEM DETAILS (EAST ASPHALT PARKING LOT)

C-504

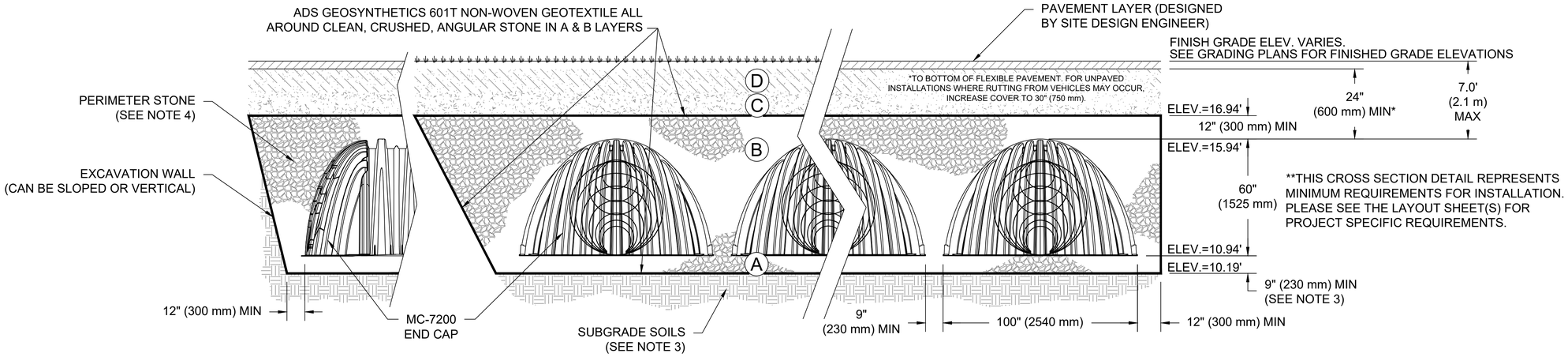
L:\121 Okaloosa County\12105.02 Shore at Crystal Beach Park Amendment\DWG\12105.02-Storm Chamber Detail_East.dwg, Aug 11, 2025 - 10:36:57AM, slucia

100% SUBMITTAL

ACCEPTABLE FILL MATERIALS: STORMTECH MC-7200 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

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2. MC-7200 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

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SEAL

SHORE AT CRYSTAL BEACH EXPANSION

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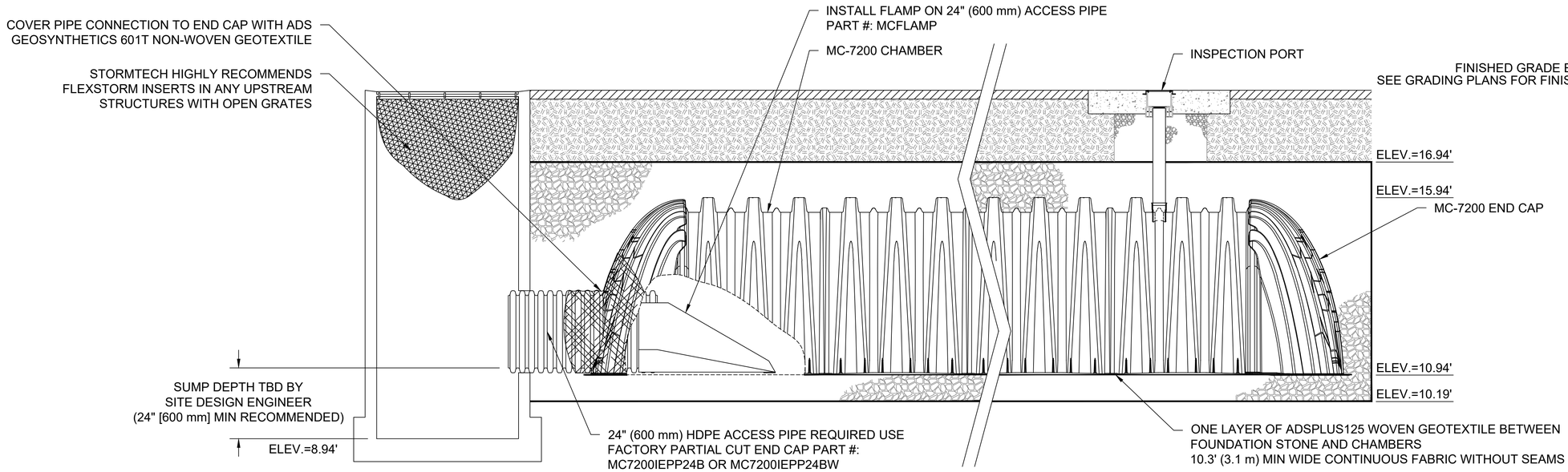
PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

ADS STORM TECH CHAMBER SYSTEM DETAILS (EAST ASPHALT PARKING LOT)

C-505



MC-7200 ISOLATOR ROW PLUS DETAIL

NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.

2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

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ADS STORM TECH CHAMBER SYSTEM DETAILS (EAST ASPHALT PARKING LOT)

C-506

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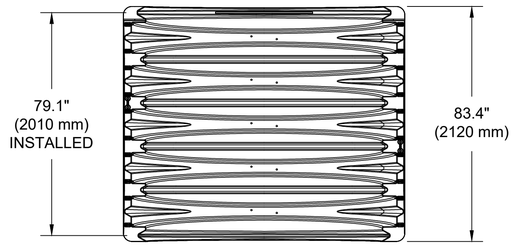
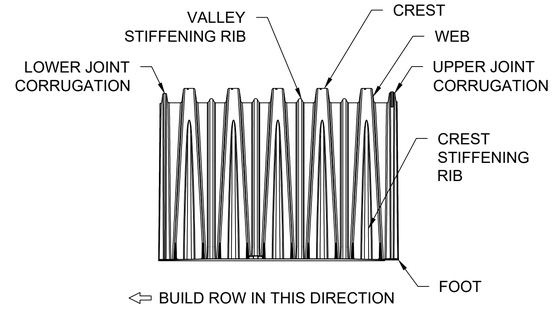
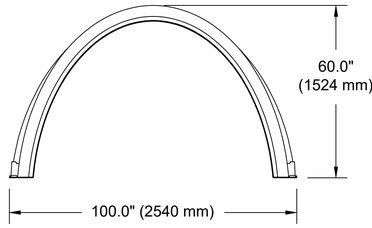
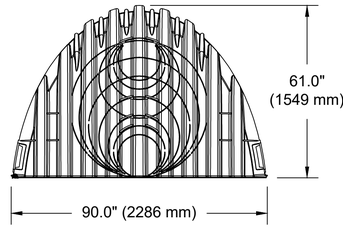
MC-7200 TECHNICAL SPECIFICATION

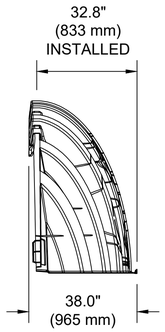
NTS











NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	100.0" X 60.0" X 79.1"	(2540 mm X 1524 mm X 2010 mm)
CHAMBER STORAGE	175.9 CUBIC FEET	(4.98 m³)
MINIMUM INSTALLED STORAGE*	267.3 CUBIC FEET	(7.56 m³)
WEIGHT (NOMINAL)	205 lbs.	(92.9 kg)

NOMINAL END CAP SPECIFICATIONS

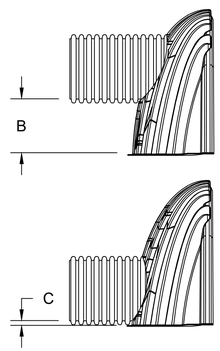
SIZE (W X H X INSTALLED LENGTH)	90.0" X 61.0" X 32.8"	(2286 mm X 1549 mm X 833 mm)
END CAP STORAGE	39.5 CUBIC FEET	(1.12 m³)
MINIMUM INSTALLED STORAGE*	115.3 CUBIC FEET	(3.26 m³)
WEIGHT (NOMINAL)	90 lbs.	(40.8 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 12" (305 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

PART #	STUB	B	C
MC7200IEPP06T	6" (150 mm)	42.54" (1081 mm)	---
MC7200IEPP06B		---	0.86" (22 mm)
MC7200IEPP08T	8" (200 mm)	40.50" (1029 mm)	---
MC7200IEPP08B		---	1.01" (26 mm)
MC7200IEPP10T	10" (250 mm)	38.37" (975 mm)	---
MC7200IEPP10B		---	1.33" (34 mm)
MC7200IEPP12T	12" (300 mm)	35.69" (907 mm)	---
MC7200IEPP12B		---	1.55" (39 mm)
MC7200IEPP15T	15" (375 mm)	32.72" (831 mm)	---
MC7200IEPP15B		---	1.70" (43 mm)
MC7200IEPP18T	18" (450 mm)	29.36" (746 mm)	---
MC7200IEPP18TW			
MC7200IEPP18B		---	1.97" (50 mm)
MC7200IEPP18BW			
MC7200IEPP24T	24" (600 mm)	23.05" (585 mm)	---
MC7200IEPP24TW			
MC7200IEPP24B		---	2.26" (57 mm)
MC7200IEPP24BW			
MC7200IEPP30BW	30" (750 mm)	---	2.95" (75 mm)
MC7200IEPP36BW	36" (900 mm)	---	3.25" (83 mm)
MC7200IEPP42BW	42" (1050 mm)	---	3.55" (90 mm)

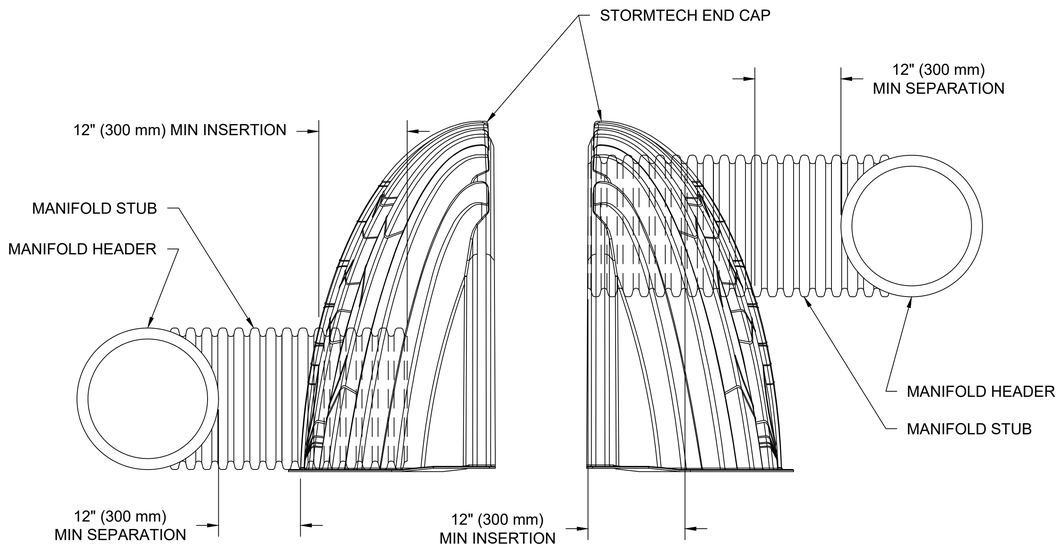
NOTE: ALL DIMENSIONS ARE NOMINAL



CUSTOM PREFABRICATED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-7200 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

MC-SERIES END CAP INSERTION DETAIL

NTS



NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

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SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

ADS STORM TECH CHAMBER SYSTEM DETAILS (EAST ASPHALT PARKING LOT)

C-507

100% SUBMITTAL

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO.	

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FOR STORMTECH
INSTALLATION INSTRUCTIONS
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CRYSTAL BEACH - WEST

DESTIN, FL, USA

MC-7200 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-7200.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
10. MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
11. ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-7200 CHAMBER SYSTEM

1. STORMTECH MC-7200 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-7200 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.
9. STONE SHALL BE BROUGHT UP EVENLY AROUND CHAMBERS SO AS NOT TO DISTORT THE CHAMBER SHAPE. STONE DEPTHS SHOULD NEVER DIFFER BY MORE THAN 12" (300 mm) BETWEEN ADJACENT CHAMBER ROWS.
10. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
11. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIAL BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
12. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH MC-7200 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
2. THE USE OF EQUIPMENT OVER MC-7200 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-7200 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

NOTES

THE BASIS OF DESIGN FOR THE UNDERGROUND STORMWATER DETENTION SYSTEM IS THE ADS MC-7200 STORMTECH CHAMBER SYSTEM. IF A DIFFERENT UNDERGROUND STORMWATER DETENTION SYSTEM IS SELECTED, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THE OVERALL FUNCTION OF THE SYSTEM.

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SEAL

SHORE AT CRYSTAL BEACH EXPANSION

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PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR.: JCP
DATE: AUGUST 2025

ADS STORM TECH CHAMBER SYSTEM NOTES
(WEST ASPHALT PARKING LOT)

C-508

L:\121 Okaloosa County\12105.02 Shore at Crystal Beach Park Amendment\DWG\12105.02 Storm Chamber Detail_West.dwg, Aug 11, 2025 – 10:39:48AM, slucia

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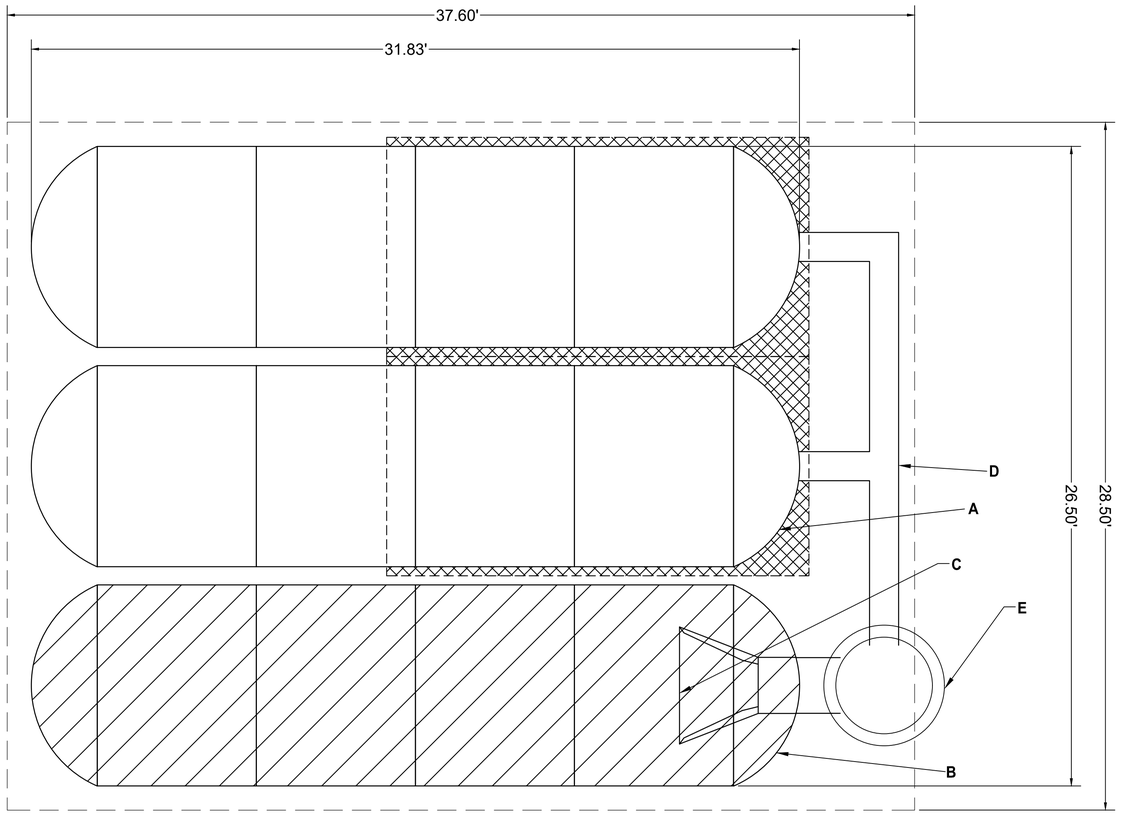
PROPOSED LAYOUT		CONCEPTUAL ELEVATIONS	
12	STORMTECH MC-7200 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	12.75
6	STORMTECH MC-7200 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	8.25
12	STONE ABOVE (in)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	7.75
9	STONE BELOW (in)	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	7.75
40	STONE VOID	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	7.75
4302	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)	TOP OF STONE:	6.75
		TOP OF MC-7200 CHAMBER:	5.75
		12" x 12" TOP MANIFOLD INVERT:	3.72
		24" ISOLATOR ROW PLUS INVERT:	0.94
1072	SYSTEM AREA (SF)	BOTTOM OF MC-7200 CHAMBER:	0.75
132.2	SYSTEM PERIMETER (ft)	BOTTOM OF STONE:	0.00

*INVERT ABOVE BASE OF CHAMBER

PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
PREFABRICATED END CAP	A	12" TOP PARTIAL CUT END CAP, PART#: MC7200IEPP12T / TYP OF ALL 12" TOP CONNECTIONS	35.69"	
PREFABRICATED END CAP	B	24" BOTTOM PARTIAL CUT END CAP, PART#: MC7200IEPP24B / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	2.26"	
FLAMP	C	INSTALL FLAMP ON 24" ACCESS PIPE / PART#: MCFLAMP		
MANIFOLD	D	12" x 12" TOP MANIFOLD, ADS N-12	35.69"	
CONCRETE STRUCTURE	E	(DESIGN BY ENGINEER / PROVIDED BY OTHERS)		5.0 CFS IN



ISOLATOR ROW PLUS
(SEE DETAIL)

PLACE MINIMUM 17.50' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

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NOTES

- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- **NOT FOR CONSTRUCTION**: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

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PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHKD BY: RLW
PROJ. MGR.: JCP
DATE: AUGUST 2025

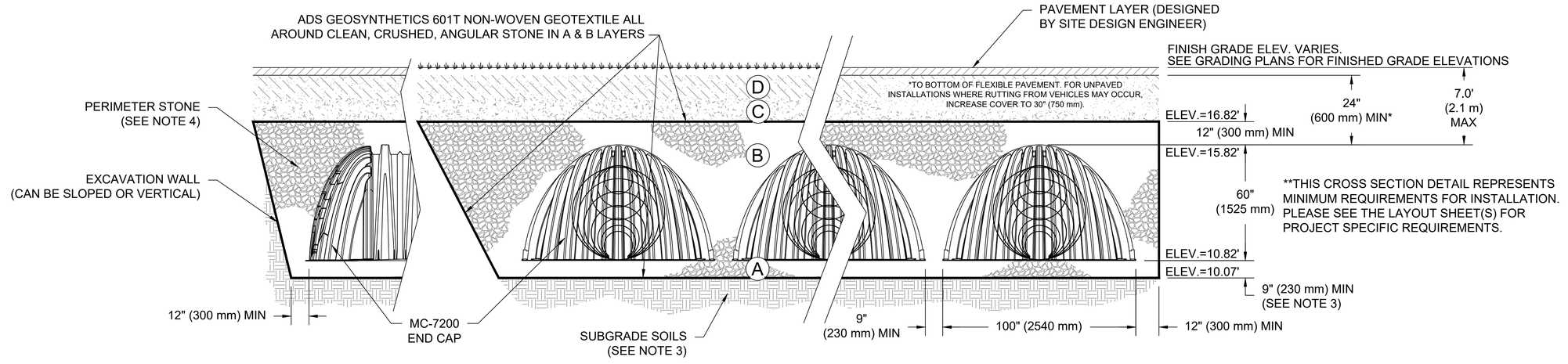
ADS STORM TECH CHAMBER SYSTEM DETAILS
(WEST ASPHALT PARKING LOT)

C-509

ACCEPTABLE FILL MATERIALS: STORMTECH MC-7200 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101
2. MC-7200 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

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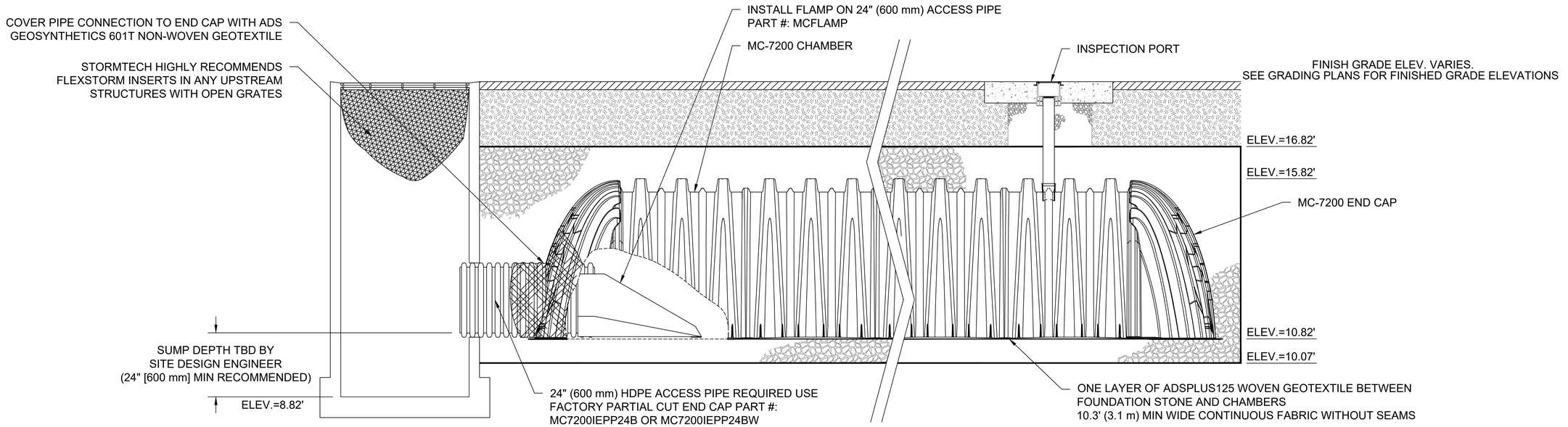
DATE: AUGUST 2025

ADS STORM TECH CHAMBER SYSTEM DETAILS (WEST ASPHALT PARKING LOT)

C-510



MC-7200 ISOLATOR ROW PLUS DETAIL

NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.

2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

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ENGINEERING BUSINESS: EB-0000340
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SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

ADS STORM TECH CHAMBER SYSTEM DETAILS (WEST ASPHALT PARKING LOT)

C-511

MC-7200 TECHNICAL SPECIFICATION

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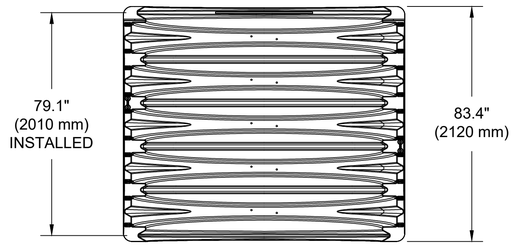
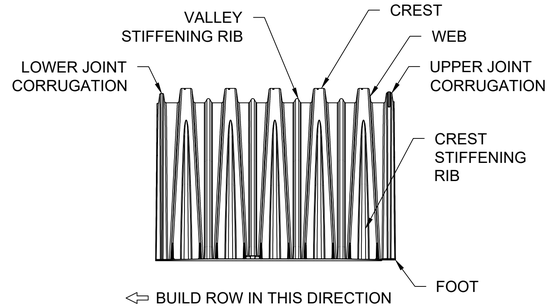
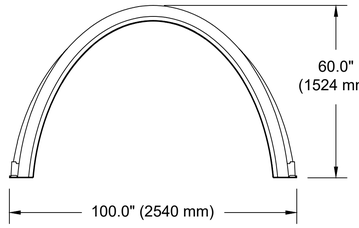
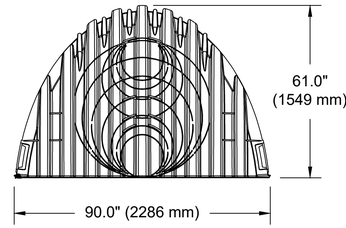
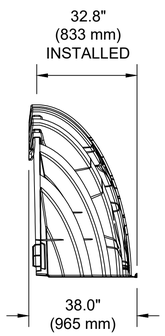










NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	100.0" X 60.0" X 79.1"	(2540 mm X 1524 mm X 2010 mm)
CHAMBER STORAGE	175.9 CUBIC FEET	(4.98 m³)
MINIMUM INSTALLED STORAGE*	267.3 CUBIC FEET	(7.56 m³)
WEIGHT (NOMINAL)	205 lbs.	(92.9 kg)

NOMINAL END CAP SPECIFICATIONS

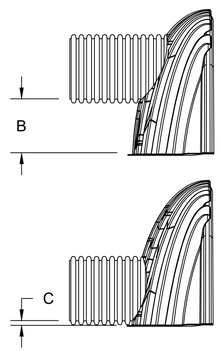
SIZE (W X H X INSTALLED LENGTH)	90.0" X 61.0" X 32.8"	(2286 mm X 1549 mm X 833 mm)
END CAP STORAGE	39.5 CUBIC FEET	(1.12 m³)
MINIMUM INSTALLED STORAGE*	115.3 CUBIC FEET	(3.26 m³)
WEIGHT (NOMINAL)	90 lbs.	(40.8 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 12" (305 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

PART #	STUB	B	C
MC7200IEPP06T	6" (150 mm)	42.54" (1081 mm)	---
MC7200IEPP06B		---	0.86" (22 mm)
MC7200IEPP08T	8" (200 mm)	40.50" (1029 mm)	---
MC7200IEPP08B		---	1.01" (26 mm)
MC7200IEPP10T	10" (250 mm)	38.37" (975 mm)	---
MC7200IEPP10B		---	1.33" (34 mm)
MC7200IEPP12T	12" (300 mm)	35.69" (907 mm)	---
MC7200IEPP12B		---	1.55" (39 mm)
MC7200IEPP15T	15" (375 mm)	32.72" (831 mm)	---
MC7200IEPP15B		---	1.70" (43 mm)
MC7200IEPP18T	18" (450 mm)	29.36" (746 mm)	---
MC7200IEPP18TW			
MC7200IEPP18B		---	1.97" (50 mm)
MC7200IEPP18BW			
MC7200IEPP24T	24" (600 mm)	23.05" (585 mm)	---
MC7200IEPP24TW			
MC7200IEPP24B		---	2.26" (57 mm)
MC7200IEPP24BW			
MC7200IEPP30BW	30" (750 mm)	---	2.95" (75 mm)
MC7200IEPP36BW	36" (900 mm)	---	3.25" (83 mm)
MC7200IEPP42BW	42" (1050 mm)	---	3.55" (90 mm)

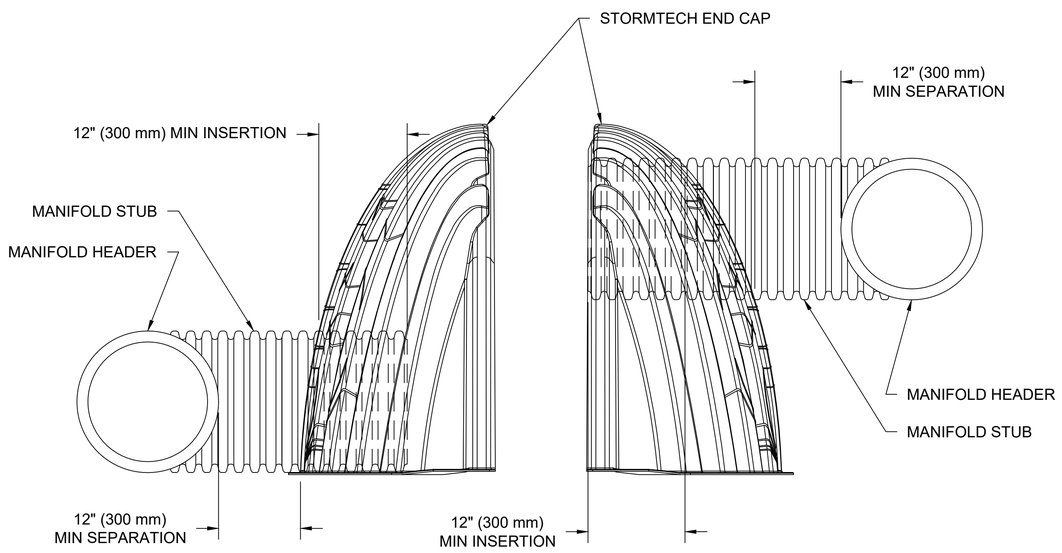
NOTE: ALL DIMENSIONS ARE NOMINAL



CUSTOM PREFABRICATED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-7200 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

MC-SERIES END CAP INSERTION DETAIL

NTS



NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

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SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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NOT RELEASED FOR CONSTRUCTION

PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHKD BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

ADS STORM TECH CHAMBER SYSTEM DETAILS (WEST ASPHALT PARKING LOT)

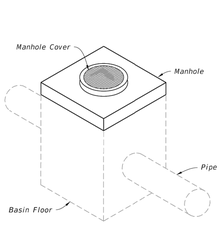
C-512

GENERAL NOTES:

1. Use a 1-piece cover, unless the 2-piece cover is called for in the Plans, except at inlets and manholes with sump bottoms. Use the 2-piece cover when the sump depth exceeds 2', unless otherwise noted.
2. Include "Adjustable" on the cover for Type 1 manhole adjustable frames.
3. For square or rectangular precast drainage structures, use either deformed or smooth WWR meeting the requirements of Specification 931. WWR must be continuous around the box and lapped in accordance with Option 1 or 3 as shown in the Wall Reinforcing Splice Details.
4. Lap splice horizontal steel in the walls of rectangular structures in accordance with Option 1, 2 or 3 as shown in the Wall Reinforcing Splice Details.
5. Welding of splices and laps is permitted. Use AASHTO M259 requirements and restrictions on welds.
6. Rebar straight end embedment of peripheral reinforcement may be used in lieu of ACI standard hooks for top and bottom slabs, except when hooks are specifically called for in the Plans.
7. Precast opening for pipe must be the pipe OD plus 6" (± 2" tolerance). Use mortar to seal the pipe into the opening of such a mix that shrinkage will not cause leakage into or out of the structure. Dry-pack mortar may be used to seal openings less than 2½" wide.

TABLE OF CONTENTS:

Sheet	Description
1	General Notes, Contents, Manhole Top Overview, and Manhole Covers
2	Manhole Frames and Manhole Tops
3	Inlet Locking Grates, Subgrade and Base Temporary Drains, and Pipe to Structure Geotextile Wrap
4	Drainage Structure Invert, Sump Bottom, Wall Reinforcing Splice Details, and Typical Slab to Wall Details
5	Precast Option and Equivalent Reinforcement substitution
6	Construction Joints and Minimum Box Riser Segment Dimensions
7	Skewed Pipe in Rectangular Structures
8	Miscellaneous Pipe Connection Details



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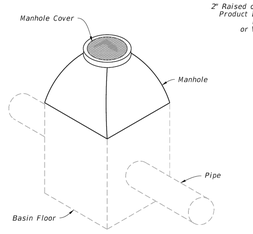
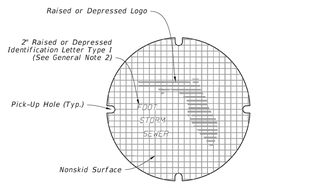
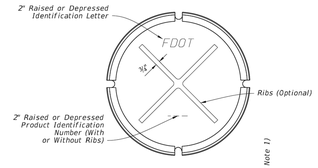


TYPE 8

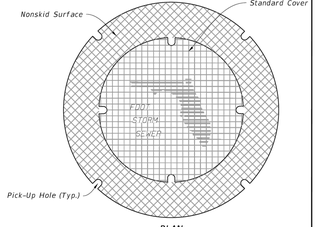
MANHOLE TOPS



PLAN



BOTTOM



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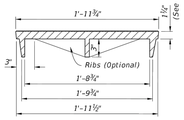
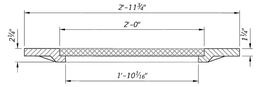


ELEVATION

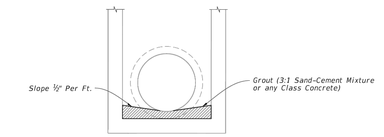
1-PIECE COVER



ELEVATION

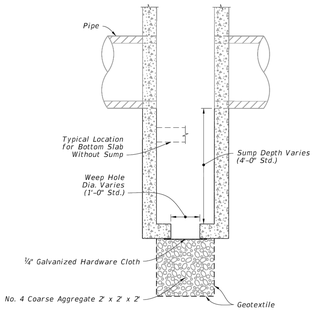
2-PIECE COVER

MANHOLE COVERS



NOTE: For all structures unless excluded by special detail.

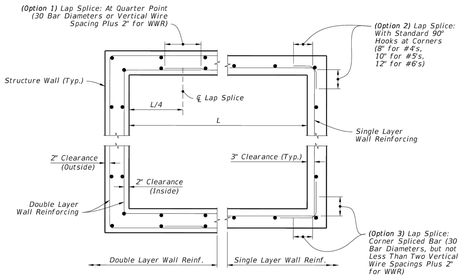
DRAINAGE STRUCTURE INVERT



NOTES:

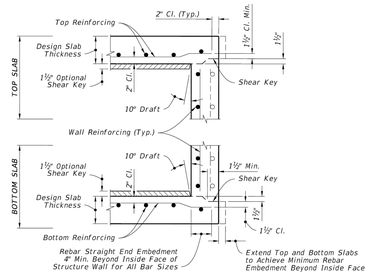
1. Construct sumps in inlets and manholes connecting to French Drains unless excluded in the Plans.
2. Construct sumps only where called for in the Plans at all other locations.
3. Construct weep holes in sump bottom only where called for in the Plans.
4. Install Type D-3 geotextile in accordance with Specification 514.

SUMP BOTTOM



HALF PLAN HALF PLAN

WALL REINFORCING SPLICE DETAILS



NOTES:

1. See Sheet 6 for optional construction joints.
2. Bend bars as required to maintain cover.

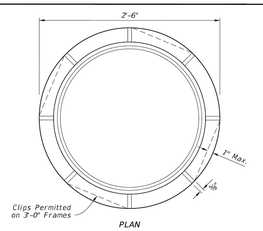
TYPICAL SLAB TO WALL DETAILS (PRECAST STRUCTURE SHOWN)

DRAINAGE STRUCTURE INVERT, SUMP BOTTOM, WALL REINFORCING SPLICE DETAILS, AND TYPICAL SLAB TO WALL DETAILS

TABLE 1
WEIGHT OF CASTINGS (lb)

Frame Type	2'-0" OPENING		3'-0" OPENING		
	Frame	2-Piece Cover (Std.)	Frame	2-Piece Cover Inside	2-Piece Cover Outside	Total
I	155	190	220	190	220	410
II	145	190	255	190	220	410
III	90	190	180	190	220	410

NOTE:
Frame Type I in Table 1, includes Adjustable frames.



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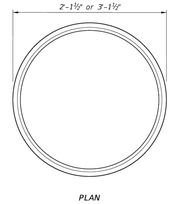

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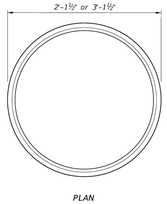

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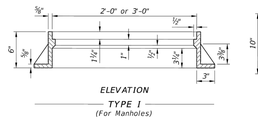
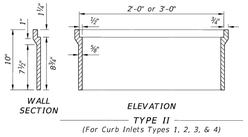


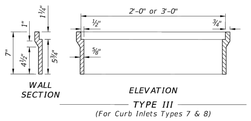
ELEVATION

TYPE I
(For Manholes)



WALL SECTION ELEVATION

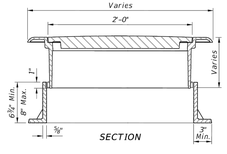
TYPE II
(For Curb Inlets Types 1, 2, 3, & 4)



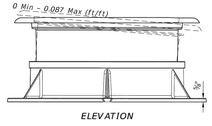
WALL SECTION ELEVATION

TYPE III
(For Curb Inlets Types 7 & 8)

MANHOLE FRAMES

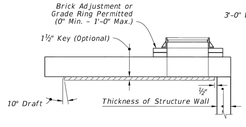


SECTION

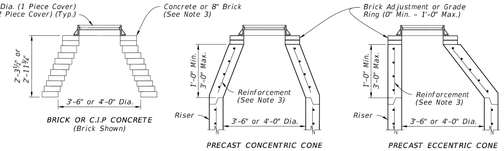


ELEVATION

TYPE I ADJUSTABLE FRAME



TYPE 7



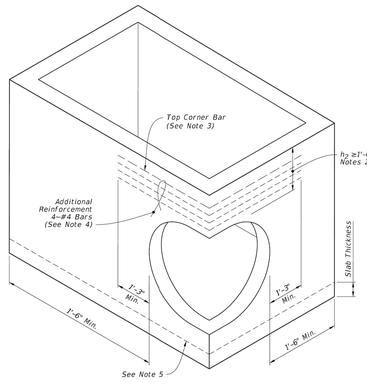
TYPE 8

MANHOLE TOPS

NOTES:

1. Use Class II concrete for Manhole top Type 7 slabs.
2. Manhole top Type 7 slabs may be of cast-in-place or precast construction. The optional key is for precast tops and in lieu of dowels. Omit frame and slab openings when top is used over a junction box.
3. Manhole top Type 8 may be of cast-in-place, precast concrete construction, or brick construction. For concrete construction, use the same concrete and steel reinforcement as the supporting wall unit. An eccentric cone may be used.
4. Use construction joint options, as shown on Sheet 6 to secure manhole tops to structures.
5. Frames may be adjusted to a maximum 12" height with brick or precast ASTM C478 grade rings.
6. Manhole top Type 8 may be substituted for a Type 7, if the minimum dimensions are not reduced.
7. Manhole top Type 7 may be substituted for Type 8, if the minimum thickness (h) above pipe opening cannot be maintained with Type 8.

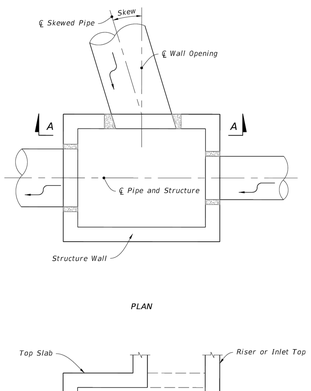
MANHOLE FRAMES AND MANHOLE TOPS



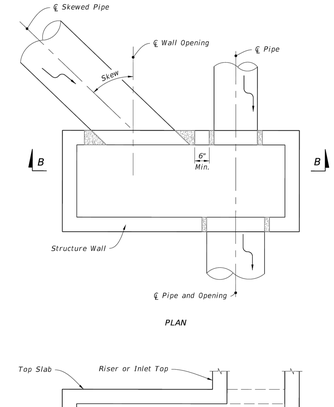
NOTES:

1. Submit Shop Drawings of corner openings for approval by the Engineer.
2. h_2 may be less than 1'-0" when a minimum 1'-0" deep segment, 8" slab or curb inlet is provided above the corner opening.
3. For inlet segments at finish grade elevation, substitute a #8 Bar for the top corner bar when $1'-0" \le h_2 < 2'-0"$.
4. Install bars continuously around corner and evenly spaced. Tie additional reinforcement to the outside of vertical wall reinforcement.
5. Dowel construction joint or monolithically cast wall and slabs.

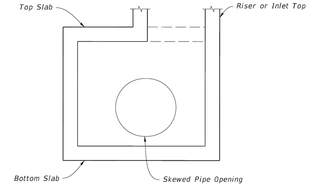
PIPE OPENING AT CORNER



PLAN

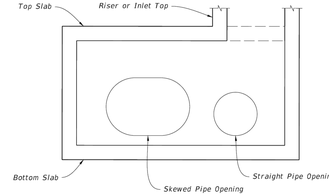


PLAN



SECTION A-A

SKEWS ≤ 45°
(Not Centered)



SECTION B-B

SKEWS > 45°
(Not Centered)

SKEWED PIPE IN RECTANGULAR STRUCTURES
(See Table 4 on Sheet 8)

SKEWED PIPE IN RECTANGULAR STRUCTURES

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
1401 PANAMA CITY BEACH PARKWAY - SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-8150
ENGINEERING BUSINESS: EB-0000340
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

This drawing is the property of BASKERVILLE-DONOVAN, INC. and is not to be reproduced in whole or in part. It is not to be used on any other work and is to be returned upon request.

NOT RELEASED FOR CONSTRUCTION

PROJECT NO:	12105.02
DESIGNED BY:	RAS
DRAWN BY:	JJ
CHKD BY:	RLW
PROJ. MGR:	JCP
DATE:	AUGUST 2025

MISCELLANEOUS STANDARD FDOT DETAILS

C-513

GENERAL NOTES:

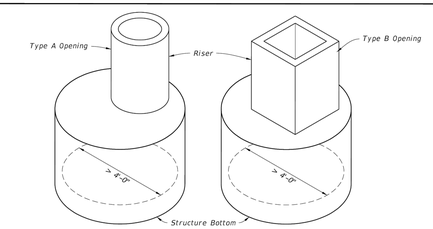
1. Work this Index with Specification 425 and Index 425-001.
2. Type P standard structure bottoms are 4'-0"diameter and smaller (Alt. A) and 3'-6" square (Alt. B) . Larger standard structure bottoms are designated Type J. Risers are permitted for all structures.
3. Walls of circular structures (Alt. A) constructed in place may be of brick or reinforced concrete. Construct precast and rectangular structures (Alt. B) with reinforced concrete only.
4. Wall thickness and reinforcement are for either reinforced cast-in-place or precast concrete units except that precast circular units may be furnished with walls in accordance with ASTM C478 (See Table 1).
5. Top and bottom slab thickness and reinforcement are for precast and cast-in-place construction. Use Class II concrete, except when Class IV concrete is shown in the Plans.
6. Alt. A or Alt. B structure bottoms may be used in conjunction with curb inlet tops Types 1, 2, 3, 4, 5, 6, 9, and 10, and any manhole or junction box. Alt. B structure bottoms may be used in conjunction with curb inlet Types 7 & 8, or any ditch bottom inlet.
7. Rectangular structures may be rotated as directed by the Engineer in order to facilitate connections between the structure walls and pipes.
8. Use straight embedment reinforcement in top and bottom slabs ,except when ACI hooks are specifically required.
9. Construct corner fillets as shown for rectangular structures used with circular risers and inlet throats, and when used on skew with rectangular risers, inlets, and inlet throats. Construct fillets in the top slab of the Alt. A structure bottoms when used with the Type B risers. Reinforce each fillet with two #5 bars.
10. Units larger than specified standards may be substituted at the contractor's option when these units will not cause or increase the severity of utility conflicts. Furnish such larger units at no additional cost to the Department. Larger Alt. A units cannot replace Alt. B units without approval of the Engineer. This Note applies to this Index only.

REINFORCEMENT NOTES:

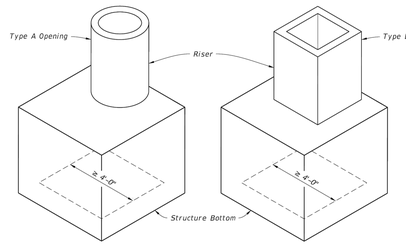
1. Locate wall reinforcement in rectangular structures as shown in the WALL REINFORCEMENT SPLICE DETAILS in Index 425-001.
2. Provide a minimum 2"clear cover for all reinforcement unless otherwise noted and except for 3/16"diameter ASTM C478 units.
3. Additional bars used to restrain hole formers for precast structures with grouted pipe connections may be left flush with the hole surface.
4. Cut or bend reinforcement at pipe openings to maintain cover.
5. Remove exposed ends of reinforcing at precast pipe openings and grouted joints to 1" below the concrete surface and seal with a Type F Epoxy meeting the requirements of Specification 926.
6. Equivalent area smooth or deformed welded wire reinforcement may be substituted in accordance with Index 425-001.

TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Dimensional and Reinforcing Details
3	Tables 1, 2, 3, and 4
4	Tables 5 and 6

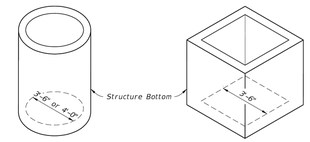


ALTERNATE A



ALTERNATE B

TYPE J



ALTERNATE A ALTERNATE B

TYPE P

LAST REVISION	REVISION	DESCRIPTION:
11/01/20		

FDOT FY 2025-26 STANDARD PLANS

STRUCTURE BOTTOMS TYPE J AND P

INDEX 425-010 | SHEET 1 of 4

TABLE 1 - ALTERNATE A - STRUCTURES

TYPE	STRUCTURE/RISER DIAMETER (ft)	CAST-IN-PLACE ITEMS CLASS II CONCRETE			PRECAST ITEMS CLASS II CONCRETE			ASTM C478	
		t_1 RISER (in.)	t_2 BOTTOM (in.)	A_S (in^2/ft.)	t_1 RISER (in.)	t_2 BOTTOM (in.)	A_S (in^2/ft.)	t_1 or t_2 (in.)	A_2*** (in^2/ft.)
P	3'-6"	6	8	0.20	6	8	0.20	4**	0.105
P	4'-0"	6	8	0.20	6	8	0.20	5**	0.120
J	5'-0"	–	8	0.20	–	8	0.20	6**	0.150
J	6'-0"	–	8	0.20	–	8	0.20	6	0.180
J	7'-0"	–	8	0.20	–	8	0.20	7	0.210
J	8'-0"	–	8	0.20	–	8	0.20	8	0.240
J	10'-0"	–	10	0.40##	–	10	0.40##	10	0.300
J	12'-0"	–	10	0.40##	–	12	0.40##	12	0.360

t_1 and t_2 - Wall Thickness.
A_S- Vertical and horizontal areas of reinforcement.
##Provide 0.20 eq. $in.^2$/ft. at each face, 12" max. bar spacing.
**Modified minimum wall thickness.
***Min. total circumferential reinforcement for continuous steel hoops:
A_2 = 0.40 sq. in. for riser section height equal or less than 2'-0" (2 hoop min.)
A_2 = 0.60 sq. in. for riser section height more than 2'-0" up to 4'-0" (3 hoop min.)
Areas of reinforcing for precast items are based on Grade 60 reinforcing.
No reduction in the area of reinforcement is allowed for welded wire fabric in Table 1.
Area of vertical reinforcing may be reduced in accordance with ASTM C478.

TABLE 2 - ALTERNATE B SQUARE AND RECTANGULAR STRUCTURES

TYPE	WALL LENGTH (FT)	MAX. DEPTH (FT)	WALL THICKNESS (t_1)	
			C-I-P (in.)	PRECAST (in.)
P	≤3'-6"	40	6 Riser & Bottom	6
J	4'-0"	40	8	6
J	5'-0"	22	–	6
J	6'-0"	15	–	6
J	5'-0"to9'-0"	40	8	8
J	10'-0"	26	8	8
J	10'-0"to12'-0"	40	10	9
J	16'-0"	35	–	9
J	16'-0"	40	10	10
J	20'-0"	25	–	9
J	20'-0"	30	10	10

See Table 4 for Reinforcing Schedule.

TABLE 3 - REINFORCING SCHEDULE

SCHEDULE	GRADE 60 BARS OR 65 KSI & 70 KSI WELDED WIRE REINFORCING			
	GRADE 60 AREA (in^2/ft)	MAXIMUM SPACING		
		GR 60 BARS (in.)	WWR EQUIV. AREA	
			65 KSI (in.)	70 KSI (in.)
A12	0.20	12	8	8
A6	0.20	6	5	4½
B10	0.24	10	8	7½
B5.5	0.24	5½	5	4
C6.5	0.37	6½	6	5
C3.5	0.37	3½	3	2½
D7	0.53	7	6	5
D4.5	0.53	4½	4	3½
E5	0.73	5	4	4
E3	0.73	3	3	3
F5	1.06	5	4	4
F3.5	1.06	3½	3	3
G5	1.45	5	4	4
G3.5	1.45	3½	3	3
H4	1.75	4	3	3

TABLE 4 - WALL DESIGNS - RECTANGULAR STRUCTURES

VERTICAL REINFORCING		HORIZONTAL REINFORCING		WALL THICKNESS
WALL DEPTH	SCHEDULE	WALL DEPTH	SCHEDULE	
SIZE: 3'-6" x RISER				
≥1.17' - 40'	A12	≥1.17' < 10'	B10	6"/8"
		10' < 18'	B5.5	6"/8"
		18' < 29'	C6.5	6"/8"
		29' – 40'	C3.5	6"/8"
SIZE: 4'-0"				
≥1.17' - 40'	A12	≥1.17' < 6'	B10	6"/8"
		6' < 10'	B5.5	6"/8"
		10' < 20'	C6.5	6"/8"
		20' < 28'	C3.5	6"/8"
		28' – 40'	D4.5	6"/8"
SIZE: 5'-0"				
≥1.17' - 40'	A12	≥1.17' < 5'	B5.5	6"/8"
		5' < 9'	C6.5	6"/8"
		9' < 15'	C3.5	6"/8"
		15' < 22'	D4.5	6"/8"
		22' – 40'	E3	8"
SIZE: 6'-0"				
≥1.17' < 26'	A12	≥1.17' < 9'	C3.5	6"/8"
		9' < 15'	D4.5	6"/8"
		15' < 26'	E3	8"
	Inside/Outside		Inside/Outside	
26' - 40'	A12 / A12	26' - 40'	D7 / D7	8"
SIZE: 7'-0"				
	Inside/Outside		Inside/Outside	
≥1.17' < 25'	A12 / A12	≥1.17' < 7'	B10 / B10	8"
26' - 40'	B10 / B10	7' < 10'	B5.5 / B5.5	8"
		10' < 20'	C6.5 / C6.5	8"
		20' < 30'	D7 / D7	8"
		30' – 40'	E5 / E5	8"
SIZE: 8'-0"				
	Inside/Outside		Inside/Outside	
≥1.17' < 20'	A12 / A12	≥1.17' < 6'	B5.5 / B5.5	8"
20' - 40'	C6.5 / C6.5	6' < 13'	C6.5 / C6.5	8"
		13' < 22'	D7 / D7	8"
		22' < 31'	E5 / E5	8"
		31' – 40'	F5 / F5	8"
SIZE: 9'-0"				
	Inside/Outside		Inside/Outside	
≥1.17' < 12'	A12 / A12	≥1.17' < 8'	C6.5 / C6.5	8"
12' < 28'	C6.5 / C6.5	8' < 15'	D7 / D7	8"
28' – 40'	D7 / D7	15' < 23'	E5 / E5	8"
		23' – 40'	F5 / F5	8"
SIZE: 10'-0"				
	Inside/Outside		Inside/Outside	
≥1.17' < 10'	B10 / B10	≥1.17' < 10'	D7 / D7	8"
10' < 21'	C6.5 / C6.5	10' < 17'	E5 / E5	8"
21' < 26'	D7 / D7	17' < 26'	F5 / F5	8"
26' – 40'	C6.5 / C6.5	26' – 40'	F5 / F5	10"

VERTICAL REINFORCING		HORIZONTAL REINFORCING		WALL THICKNESS
WALL DEPTH	SCHEDULE	WALL DEPTH	SCHEDULE	
SIZE: 10'-0" (Precast Only)				
	Inside/Outside		Inside/Outside	
26' - 40'	D7 / D7	26' – 40'	F5 / F5	9"
SIZE: 12'-0"				
	Inside/Outside		Inside/Outside	
≥1.17' < 14'	B10 / B10	≥1.17' < 10'	C6.5 / C6.5	10"
14' < 25'	C6.5 / C6.5	10' < 17'	D7 / D7	10"
25' - 40'	D7 / D7	17' < 24'	E5 / E5	10"
		24' – 40'	F5 / F5	10"
SIZE: 12'-0" (Precast Only)				
	Inside/Outside		Inside/Outside	
≥1.17' < 12'	B10 / B10	≥1.17' < 10'	D7 / D7	9"
12' < 24'	C6.5 / C6.5	10' < 17'	D4.5 / D4.5	9"
24' - 40'	D7 / D7	17' < 23'	E5 / E5	9"
		23' < 32'	F5 / F5	9"
		32' – 40'	G5 / G5	9"
SIZE: 16'-0"				
	Inside/Outside		Inside/Outside	
≥1.17' < 11'	C6.5 / C6.5	≥1.17' < 13'	D7 / D7	10"
11' < 20'	D7 / D7	13' < 20'	E5 / E5	10"
20' < 28'	E5 / E5	20' < 28'	F5 / F5	10"
28' – 40'	F5 / F5	28' – 40'	G5 / G5	10"
SIZE: 16'-0" (Precast Only)				
	Inside/Outside		Inside/Outside	
≥1.17' < 10'	C6.5 / C6.5	≥1.17' < 9'	D7 / D7	9"
10' < 18'	D7 / D7	9' < 13'	D4.5 / D4.5	9"
18' < 25'	E5 / E5	13' < 19'	E5 / E5	9"
25' < 35'	F5 / F5	19' < 27'	F5 / F5	9"
		27' – 35'	G5 / G5	9"
SIZE: 20'-0"				
	Inside/Outside		Inside/Outside	
≥1.17' < 10'	C6.5 / C6.5	≥1.17' < 8'	D7 / D7	10"
10' < 17'	D7 / D7	8' < 12'	E5 / E5	10"
17' – 30'	E5 / E5	12' < 20'	F5 / F5	10"
		20' – 30'	G5 / G5	10"
SIZE: 20'-0" (Precast Only)				
	Inside/Outside		Inside/Outside	
≥1.17' < 8'	C6.5 / C6.5	≥1.17' < 8'	D4.5 / D4.5	9"
8' < 13'	D7 / D7	8' < 12'	E5 / E5	9"
13' – 25'	E5 / E5	12' < 19'	F5 / F5	9"
		19' – 25'	G5 / G5	9"

TABLE 4 NOTES:

1. Wall depth is measured to the top of the bottom slab for boxes and to the top of the intermediate slab for risers.
2. Wall height is the distance between top of lower slab to bottom of upper slab. Maximum wall height is 12' for wall lengths exceeding 5', or 10' for wall lengths exceeding 12'.
3. Wall lengths exceeding 6'-0" require two layers of reinforcing (See Table 4) with 2" of cover from the horizontal bars to the inside and outside faces for each layer.
4. Wall lengths exceeding the dimensions or depths shown in Table 4, or 12'-0" diameter require a special design.
5. Wall thickness and reinforcing for rectangular structures is based on the longer wall length.

TABLES 1, 2, 3, AND 4

LAST REVISION	REVISION	DESCRIPTION:
11/01/20		

FDOT FY 2025-26 STANDARD PLANS

STRUCTURE BOTTOMS TYPE J AND P

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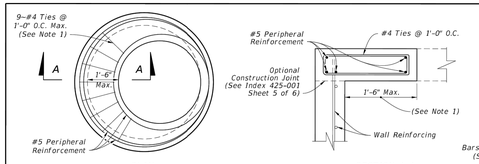
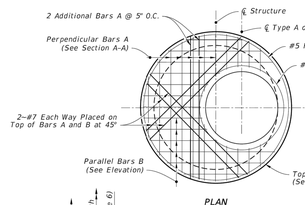


PLAN

SECTION A-A

SPECIAL TOP SLAB



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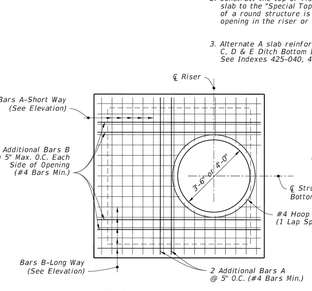
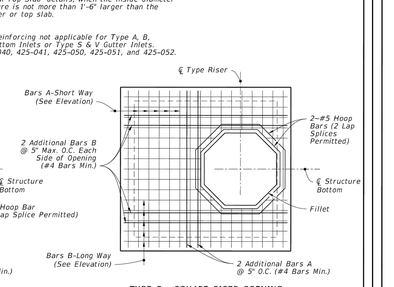


TYPE A - ROUND RISER OPENING

PLAN



TYPE B - SQUARE RISER OPENING

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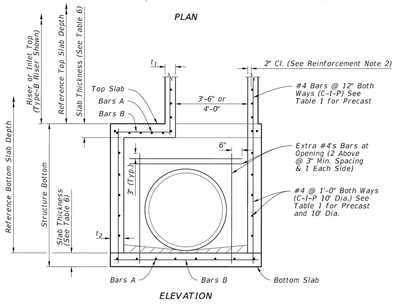
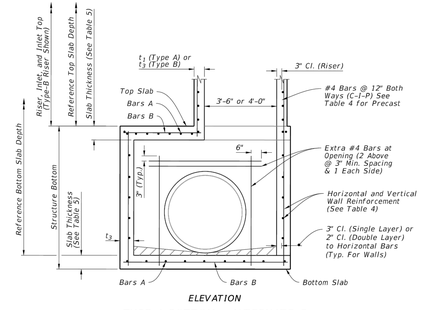


ELEVATION

TYPE J BOTTOM - ALTERNATE A



ELEVATION

TYPE J BOTTOM - ALTERNATE B

ALTERNATE A NOTES:

1. Rotate #4 Bars as required to maintain cover.
2. Construct the top or riser of the structure according the top slab to the "Special Top Slab" details, when the inside diameter of a round structure is not more than 1'-6" larger than the opening in the riser or top slab.
3. Alternate A slab reinforcing not applicable for Type A, B, C, D & E Ditch Bottom Inlets or Type S & V Gutter Inlets. See Indexes 425-040, 425-041, 425-050, 425-051, and 425-052.

DIMENSIONAL AND REINFORCING DETAILS

LAST REVISION	REVISION	DESCRIPTION:
11/01/20		

FDOT FY 2025-26 STANDARD PLANS

STRUCTURE BOTTOMS TYPE J AND P

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TABLE 5 - SLAB DESIGNS - SQUARE AND RECTANGULAR STRUCTURES

(ALL SLABS 8" THICK EXCEPT AS NOTED - REINFORCING PARALLEL TO SHORT WAY AND LONG WAY)

SHORT-WAY		LONG-WAY	
SLAB DEPTH	SCHEDULE (Bars A)	SLAB DEPTH	SCHEDULE (Bars B)
SIZE: 3'-6" x UNLIMITED			
≥0.5' < 8'	B10	≥0.5' < 24'	B10
8' < 13'	B5.5	24'-40'	B5.5
13' < 31'	C6.5		
31'-40'	D7		
SIZE: 4' x UNLIMITED			
≥0.5' < 7'	B5.5	≥0.5' < 15'	B10
7' < 19'	C6.5	15' < 29'	B5.5
19' < 31'	D7	29'-40'	C6.5
31'-40'	E5		
SIZE: 5' x 5'			
≥0.5' < 3'	C6.5	≥0.5' < 3'	C6.5
3' < 7'	B5.5	3' < 13'	C6.5
7' < 22'	C6.5	13' < 22'	D7
22' < 29'	D7	22' < 29'	D4.5
29'-40'	E5	29'-40'	E5
SIZE: 5' x 6'			
≥0.5' < 12'	C6.5	≥0.5' < 3'	C6.5
12' < 26'	D7	3' < 9'	B5.5
26'-40'	E5	9' < 23'	C3.5
		23' < 35'	D4.5
		35'-40'	E5
SIZE: 5' x 7'			
≥0.5' < 10'	C6.5	≥0.5' < 10'	B5.5
10' < 20'	D7	10' < 31'	C3.5
20' < 34'	E5	31'-40'	D4.5
34'-40'	F5		
SIZE: 5' x 8'			
≥0.5' < 7'	C6.5	≥0.5' < 8'	B10
7' < 13'	D7	8' < 17'	B5.5
13' < 24'	E5	17' < 25'	C6.5
24'-40'	F5	25'-40'	C3.5
SIZE: 5' x 9'			
≥0.5' < 8'	C6.5	≥0.5' < 14'	B10
8' < 14'	D7	14' < 24'	B5.5
14' < 25'	E5	24' < 34'	C6.5
25'-40'	F5	34'-40'	C3.5
SIZE: 5' x UNLIMITED			
≥0.5' < 8'	C6.5	≥0.5' < 14'	B10
8' < 14'	D7	14' < 24'	B5.5
14' < 25'	E5	24' < 34'	C6.5
25'-40'	F5	34'-40'	C3.5

SHORT-WAY		LONG-WAY	
SLAB DEPTH	SCHEDULE (Bars A)	SLAB DEPTH	SCHEDULE (Bars B)
SIZE: 6' x 6'			
≥0.5' < 13'	C6.5	≥0.5' < 10'	C3.5
13' < 23'	D7	10' < 18'	D4.5
23'-40'	E5	18' < 27'	E5
		27' < 33'	E3
		33'-40'	F5
SIZE: 6' x 7'			
≥0.5' < 8'	C6.5	≥0.5' < 8'	C6.5
8' < 16'	D7	8' < 12'	C3.5
16' < 28'	E5	12' < 21'	D4.5
28'-40'	F5	21' < 28'	E5
		28' < 35'	E3
		35'-40'	F5
SIZE: 6' x 8'			
≥0.5' < 6'	C6.5	≥0.5' < 6'	B5.5
6' < 13'	D7	6' < 11'	C6.5
13' < 22'	E5	11' < 17'	C3.5
22' < 35'	F5	17' < 22'	D4.5
35'-40'	G5	22' < 32'	E5
		32'-40'	E3
SIZE: 6' x 9'			
≥0.5' < 8'	D7	≥0.5' < 8'	B5.5
8' < 14'	E5	8' < 14'	C6.5
14' < 24'	F5	14' < 21'	C3.5
24'-34'	G5	21' < 25'	D4.5
		25'-34'	E5
SIZE: 6' x UNLIMITED			
≥0.5' < 8'	D7	≥0.5' < 8'	B5.5
8' < 14'	E5	8' < 14'	C6.5
14' < 24'	F5	14' < 21'	C3.5
24'-34'	G5	21' < 25'	D4.5
		25'-34'	E5
SIZE: 7' x 7'			
≥0.5' < 8'	C6.5	≥0.5' < 4'	C6.5
8' < 15'	D7	4' < 7'	C3.5
15' < 26'	E5	7' < 11'	D4.5
26'-40'	F5	11' < 22'	E3
		22' < 32'	F3.5
		32'-40'	G3.5
SIZE: 7' x 8'			
≥0.5' < 5'	C6.5	≥0.5' < 5'	C6.5
5' < 11'	D7	5' < 8'	C3.5
11' < 19'	E5	8' < 13'	D4.5
19' < 30'	F5	13' < 22'	E3
30'-40'	G5	22' < 30'	F3.5
		30'-40'	G3.5
SIZE: 7' x 9'			
≥0.5' < 9'	D7	≥0.5' < 7'	C6.5
9' < 15'	E5	7' < 10'	C3.5
15' < 25'	F5	10' < 14'	D4.5
25' - 34'	G5	14' < 21'	E5
		21' < 29'	F5
		29'-34'	F3.5

SHORT-WAY		LONG-WAY	
SLAB DEPTH	SCHEDULE (Bars A)	SLAB DEPTH	SCHEDULE (Bars B)
SIZE: 8' x 8'			
≥0.5' < 10'	D7	≥0.5' < 9'	D4.5
10' < 19'	E5	9' < 13'	E5
19'-30'	F5	13' < 18'	F5
		18' < 23'	F3.5
		23'-30'	G3.5
SIZE: 8' x 9'			
≥0.5' < 8'	D7	≥0.5' < 7'	D7
8' < 14'	E5	7' < 9'	D4.5
14' < 23'	F5	9' < 15'	E3
23'-31'	G3.5	15' < 20'	F5
		20' < 23'	F3.5
		23'-31'	G3.5
SIZE: 9' x 9'			
≥0.5' < 8'	D7	≥0.5' < 7'	D4
8' < 14'	E5	7' < 10'	E5
14' < 22'	F5	10' < 17'	F3.5
		17' < 22'	G3.5
SIZE: 9'x9'x10" SLAB THICKNESS			
22' < 36'	F5	22' < 31'	F3.5
36'-40'	G5	31'-40'	G3.5
SIZE: 10'x10'x10" SLAB THICKNESS			
≥0.5' < 7'	C6.5	0.5' < 6'	C6.5
7' < 10'	D7	6' < 9'	D4.5
10' < 18'	E5	9' < 15'	E5
18' < 27'	F5	15' < 22'	F5
27'-32'	G5	22'-32'	G3.5
SIZE: 12'x12'x12" SLAB THICKNESS			
≥0.5' < 10'	D7	≥0.5' < 8'	D7
10' < 16'	E5	8' < 14'	E5
16' < 25'	F5	14' < 22'	F5
25'-35'	G5	22' < 30'	G5
		30'-35'	H4

TABLE 6 - SLAB DESIGNS ROUND STRUCTURES

SLAB DEPTH	SLAB THICKNESS	REINF. (2-WAY) SCHEDULE
SIZE: 3'-6" DIAMETER		
2'-15'	6" Precast	C6.5
0.5' < 30'	8"	A6
30'-40'	8"	B5.5
SIZE: 4'-0" DIAMETER		
≥0.5' < 19'	8"	A6
19' < 30'	8"	B5.5
30'-40'	8"	C6.5
SIZE: 5'-0" DIAMETER		
≥0.5' < 15'	8"	B5.5
15' < 26'	8"	C6.5
26' < 35'	8"	D7
35'-40'	8"	D4.5
SIZE: 6'-0" DIAMETER		
≥0.5' < 9'	8"	B5.5
9' < 15'	8"	C6.5
15' < 27'	8"	C3.5
27' < 30'	8"	D4.5
30'-40'	8"	E5
SIZE: 7'-0" DIAMETER		
≥0.5' < 8'	8"	C3.5
8' < 16'	8"	D4.5
16' < 23'	8"	E5
23' < 27'	8"	E3
27'-40'	8"	F3.5
SIZE: 8'-0" DIAMETER		
≥0.5' < 10'	8"	D4.5
10' < 16'	8"	E5
16' < 19'	8"	E3
19' < 29'	8"	F3.5
29'-40'	10"	F5
SIZE: 10'-0" DIAMETER		
≥0.5' < 12'	10"	D4.5
12' < 20'	10"	E5
20' < 28'	10"	F5
28'-40'	10"	G3.5
SIZE: 12'-0" DIAMETER		
≥0.5' < 8'	10"	D4.5
8' < 13'	10"	F5
13' < 18'	10"	G3.5
18' < 26'	10"	G3.5
26'-40'	12"	G3.5

SLAB AND WALL DESIGN TABLE NOTES

1. Size is the inside dimension(s) of a structure.
2. Slab reinforcement is appropriate for top, intermediate, and bottom slabs.
3. Bottom Slabs for precast 3'-6" x 3'-6" rectangular structures at 15' depth or less, may be 6" thick.
4. Slab depth is measured from finished grade to top of slab.
5. Reinforcing schedules with larger areas of steel may be substituted for schedules with smaller bar or wire spacing, except that Schedule B10 may not be substituted for Schedule A6. See Index 425-001 for allowable bar spacing adjustments when larger areas of reinforcing are substituted.

TABLES 5 AND 6

LAST REVISION	REVISION	DESCRIPTION:
11/01/20		

FDOT FY 2025-26 STANDARD PLANS

STRUCTURE BOTTOMS TYPE J AND P

INDEX 425-010 | SHEET 4 of 4

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
14101 PANAMA CITY BEACH PARKWAY - SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-8150
ENGINEERING BUSINESS: EB-0000340
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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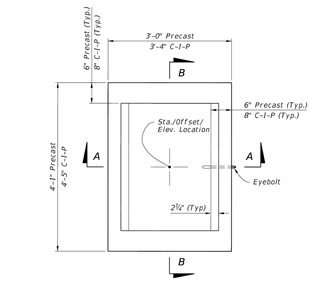
NOT RELEASED FOR CONSTRUCTION

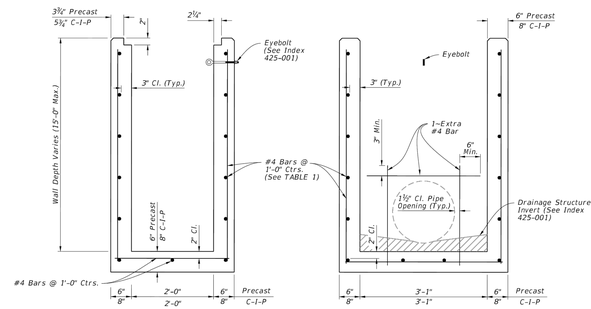
PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHKD BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

MISCELLANEOUS STANDARD FDOT DETAILS

C-514

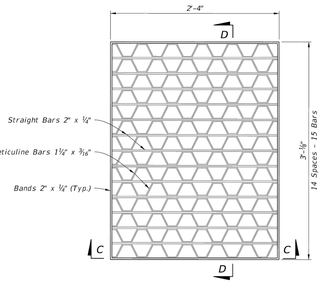


PLAN



SECTION A-A
(Pipe Opening Not Shown)

SECTION B-B
(Pipe Opening Shown)



SECTION C-C

SECTION D-D

STEEL GRATE DETAIL

(Approx. 104 Lbs. – See Sheet 7 For Cast Iron Grates)

TABLE 1
HORIZONTAL WALL REINFORCING SCHEDULE

WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING	
			BARS	WWF
0' – 15'	A12	0.20	12"	8"

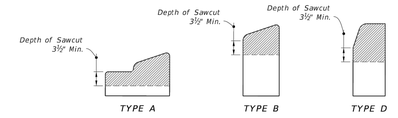
NOTES:

1. Grate, Concrete Apron, and Sod not shown on structure detail.
2. See Sheet 8, 9, and 10 For Concrete Apron and Sodded Area details.

DIMENSIONAL AND REINFORCING DETAILS

TYPE C - DIMENSIONAL, REINFORCING, AND STEEL GRATE DETAILS

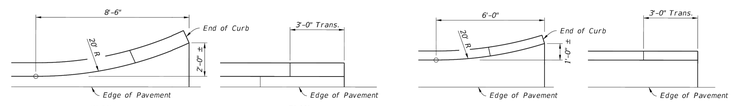
LAST REVISION	DESCRIPTION:	FDOT			
11/01/20		FY 2025-26 STANDARD PLANS	DITCH BOTTOM INLET TYPES C, D, E, AND H	INDEX 425-052	SHEET 2 of 14

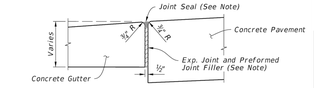


CONTRACTION JOINTS IN CURB

NOTE: Sawcuts should be avoided within valley gutter and within curb and gutter endings.

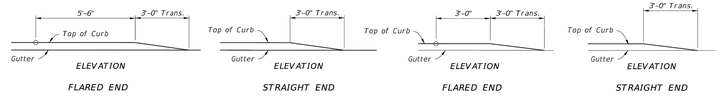
CONTRACTION JOINTS IN CURB & GUTTER





NOTE: Joint Seal application applies to both high and low sides of pavement, low side shown.

EXPANSION JOINT BETWEEN GUTTER AND CONCRETE PAVEMENT

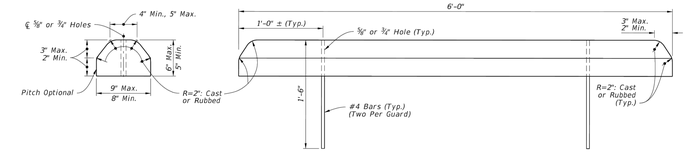


CURB TYPE A

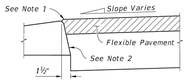
CURB AND GUTTER TYPE E AND TYPE F

NOTE: Ends of Type B and D Curb transition from full to zero heights in 3 ft.

CURB AND CURB & GUTTER ENDINGS



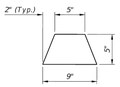
CONCRETE BUMPER GUARD



NOTES:

1. Surface on Low Side of Pavement to be ¼" Above Lip of Gutter. Surface on High Side to be Flush With Lip of Curb or Curb & Gutter.
2. Applies to both high and low sides of pavement, low side shown. Applies to shoulder gutter only where adjoining traffic lanes.

CURB AND GUTTER AND TYPE A CURB ADJACENT TO FLEXIBLE PAVEMENT



ASPHALTIC CONCRETE CURB

CURB AND GUTTER JOINTS AND ENDINGS, CONCRETE BUMPER GUARD, AND ASPHALTIC CONCRETE CURB

LAST REVISION	DESCRIPTION:	FDOT			
11/01/21		FY 2025-26 STANDARD PLANS	CURB AND GUTTER	INDEX 520-001	SHEET 3 of 3

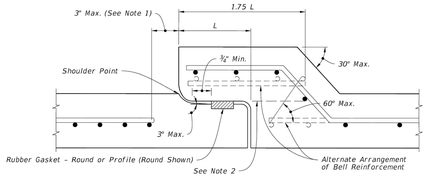


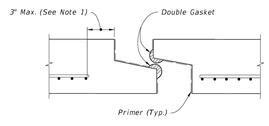
TABLE 1
SCHEDULE OF BELL REINFORCEMENT
Classes II, III, IV, AND V;
Wall A, B, AND C

Nominal Pipe Diameter	Design Bell Reinforcement	Maximum Reinforcement Under Tolerance
	in² per foot	in² per foot
15"	0.07	0.010
18"	0.07	0.010
24"	0.09	0.010
30"	0.12	0.010
36"	0.14	0.010
42"	0.16	0.010
48"	0.19	0.011
54"	0.21	0.012
60"	0.23	0.0135
66"	0.26	0.015
72"	0.28	0.0165
78"	0.30	0.018
84"	0.33	0.0195
90"	0.35	0.021
96"	0.37	0.0225
102"	0.40	0.024
108"	0.42	0.0255

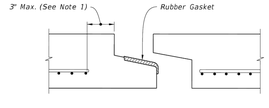
NOTES:

1. Locate the last full wrap of reinforcement within 3 inches of the spigot shoulder and meet ASTM C76 for round pipe.
2. All circumferential steel located above this line and within the 1.75 L is defined as bell reinforcement.

ROUND CONCRETE PIPE JOINT DETAIL



PREFORMED PLASTIC JOINT



PROFILE RUBBER GASKET

NOTES:

1. Locate the last full wrap of reinforcement within 3 inches of the spigot shoulder and meet ASTM C507 for elliptical pipe.
2. Type D-3 Geotextile Jacket is required on both type of joints.
3. Details shown before joint is homed.

ELLIPTICAL CONCRETE PIPE JOINT DETAIL

ROUND AND ELLIPTICAL CONCRETE PIPE JOINT

LAST REVISION	DESCRIPTION:	FDOT			
11/01/23		FY 2025-26 STANDARD PLANS	MISCELLANEOUS DRAINAGE DETAILS	INDEX 430-001	SHEET 2 of 7

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
14101 PANAMA CITY BEACH PARKWAY - SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-8150
ENGINEERING BUSINESS: EB-0000340
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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NOT RELEASED FOR CONSTRUCTION

PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHKD BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

MISCELLANEOUS STANDARD FDOT DETAILS

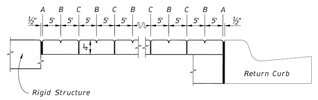
C-515

L:\121 Okaloosa County\12105.02 Shore at Crystal Beach Park Amendment\DWG\12105.02-FDOT Details.dwg, Aug 11, 2025 – 10:51:17AM, slucia

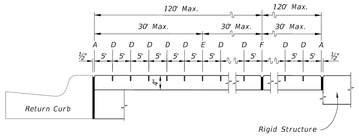
100% SUBMITTAL

GENERAL NOTES:

1. Construct sidewalks in accordance with Specification 522. Use 6" concrete for Sidewalks and Curb Ramps Located within Curb Returns (See Plan View). Install all other concrete with thickness as shown, unless otherwise detailed in the Plans.
2. Include detectable warnings on sidewalk curb ramps in accordance with Index 522-002.
3. For Driveways see Index 522-003.
4. Bond breaker material can be any impermeable coated or sheet membrane or preformed material having a thickness of not less than 6 mils and not more than ½".
5. Construct sidewalks with Edge Beam through the limits of any surface mounted Pedestrian/Bicycle Railing or Pipe Guiderail shown in the plans. (See RAILING DETAIL)



OPEN JOINTS



SAWED JOINTS

LONGITUDINAL SECTION

LEGEND:

A- ½" Expansion Joints (Preformed Joint Filler) between the sidewalk and; driveways, sidewalk-intersections, and all other fixed objects (e.g. drainage inlets and utility poles).

B- ⅛" Dummy Joints, Tooled

C- ⅛" Formed Open Joints

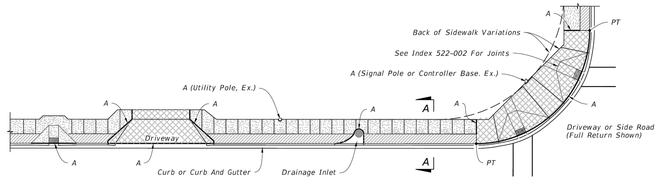
D- 3/16" Saw Cut Joints, 1½" Deep (within 96 hours) Max. 5' Centers

E- 3/16" Saw Cut Joints, 1½" Deep (within 12 hours) Max. 30' Centers Joint(s) Required When Length Exceeds 30'

F- ½" Expansion Joint When Run Of Sidewalk Exceeds 120'. Intermediate locations when called for in the plans or at locations as directed by the Engineer.

G- Cold Joint With Bond Breaker, Tooled

SIDEWALK JOINTS

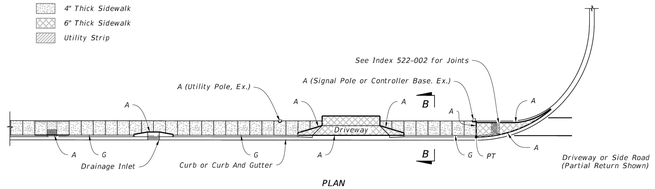


PLAN

SIDEWALK WITH UTILITY STRIP

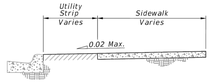
LEGEND:

4" Thick Sidewalk
6" Thick Sidewalk
Utility Strip

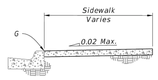


PLAN

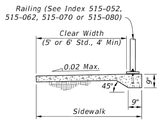
SIDEWALK WITHOUT UTILITY STRIP



SECTION A-A



SECTION B-B



Varies Based on Railing Used

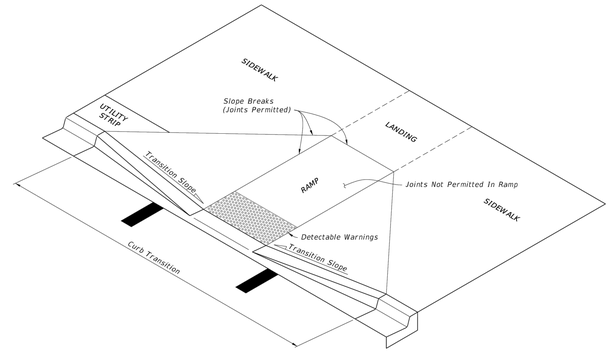
RAILING DETAIL

GENERAL NOTES AND CONCRETE SIDEWALK ON CURBED ROADWAYS

LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2025-26 STANDARD PLANS	CONCRETE SIDEWALK	INDEX	SHEET
11/01/18						522-001	1 of 2

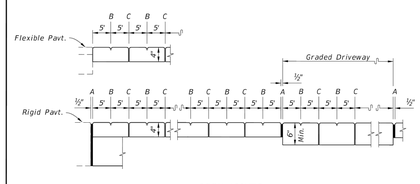
GENERAL NOTES:

1. Cross Slopes and Grades:
   - A. Sidewalk, ramp, and landing slopes (i.e. 0.02, 0.05, and 1:12) shown in this Index are maximums. With approval of the Engineer, provide the minimum feasible slope where the requirements cannot be met.
   - B. Landings must have cross-slopes less than or equal to 0.02 in any direction.
   - C. Maintain a single longitudinal slope along each side of the curb ramp. Ramp slopes are not required to exceed 15 feet in length.
   - D. Joints permitted at the location of Slope Breaks. Otherwise locate joints in accordance with Index 522-001. No joints are permitted within the ramp portion of the Curb Ramp.
2. Curb, Curb and Gutter and/or Sidewalk:
   - A. Refer to Index 522-001 for concrete thickness and sidewalk details.
   - B. Remove any existing curb, curb and gutter, or sidewalk to the nearest joint beyond the curb transition or to the extent that no remaining section is less than 5 feet long.
   - C. Width of Curb Ramp is 4'-0" minimum. Match sidewalk or Shared Use Path width as shown in the Plans.
3. Curb Ramp Alpha-Identification:
   - A. Sidewalk curb ramp alpha-identifications (e.g. CR-A) are provided for reference purposes in the Plans.
   - B. Alpha-identifications CR-I and CR-J are intentionally omitted.
4. Detectable Warnings:
   - A. Install detectable warnings in accordance with Specification 527.
   - B. Place detectable warnings across the full width of the ramp or landing, to a minimum depth of 2 feet measured perpendicular to the curb line and no greater than 5 feet from the back of the curb or edge of pavement.
   - C. If detectable warnings are shown in the Plans on slopes greater than 5%, align the truncated domes with the centerline of the ramp; otherwise, the truncated domes are not required to be aligned.

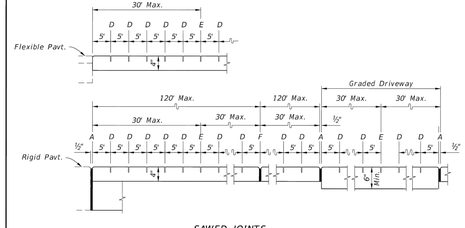


CURB RAMP NOMENCLATURE

LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2025-26 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX	SHEET
11/01/21						522-002	1 of 7



OPEN JOINTS



SAWED JOINTS

LONGITUDINAL SECTION

LEGEND:

A- ½" Expansion Joints (Preformed Joint Filler) between the sidewalk and driveways, sidewalk-intersections, and all other fixed objects (e.g. drainage inlets and utility poles).

B- ⅛" Dummy Joints, Tooled

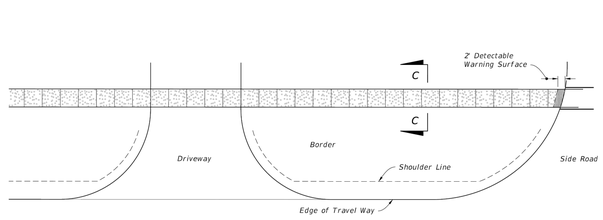
C- ⅛" Formed Open Joints

D- 3/16" Saw Cut Joints, 1½" Deep (within 96 hours) Max. 5' Centers

E- 3/16" Saw Cut Joints, 1½" Deep (within 12 hours) Max. 30' Centers Joint(s) Required When Length Exceeds 30'

F- ½" Expansion Joint When Run Of Sidewalk Exceeds 120'. Intermediate locations when called for in the plans or at locations as directed by the Engineer.

SIDEWALK JOINTS

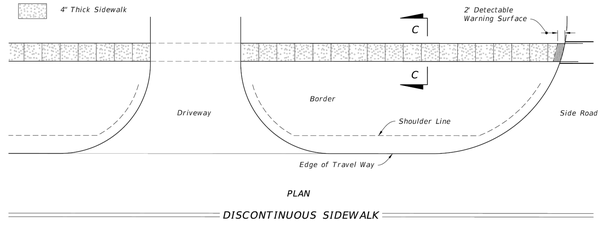


PLAN

CONTINUOUS SIDEWALK

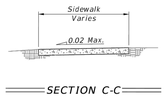
LEGEND:

4" Thick Sidewalk



PLAN

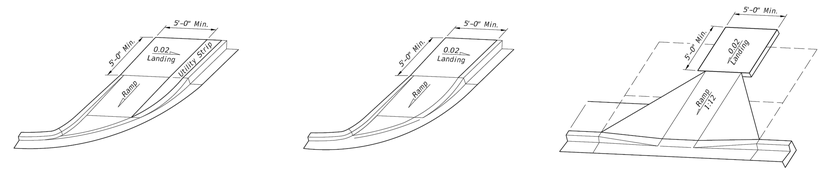
DISCONTINUOUS SIDEWALK



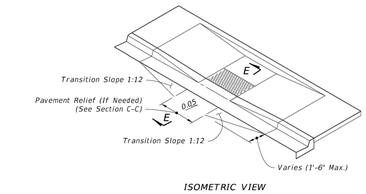
SECTION C-C

CONCRETE SIDEWALK ON FLUSH SHOULDER ROADWAYS

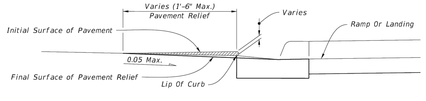
LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2025-26 STANDARD PLANS	CONCRETE SIDEWALK	INDEX	SHEET
11/01/18						522-001	2 of 2



LANDINGS FOR CURB RAMPS WITHOUT SIDEWALKS
(See CR-F, CR-G & CR-K Respectively For Detectable Warning Details/Options)



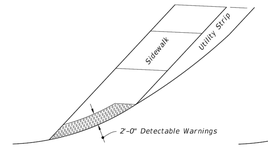
ISOMETRIC VIEW
(CR-C Shown, Other Similar)



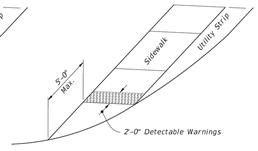
NOTE: Remove Elevated Pavement By Spading And Rolling, Smooth Milling, or Grinding.

SECTION E-E

PAVEMENT RELIEF DETAILS



OPTION A



OPTION B

DETECTABLE WARNING ON FLUSH SHOULDER SIDEWALKS

CURB RAMPS WITHOUT SIDEWALKS AND FLUSH SHOULDER SIDEWALKS

LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2025-26 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX	SHEET
11/01/20						522-002	6 of 7

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
14101 PANAMA CITY BEACH PARKWAY - SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-8150
ENGINEERING BUSINESS: EB-0000340
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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NOT RELEASED FOR CONSTRUCTION

PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHKD BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

MISCELLANEOUS
STANDARD FDOT DETAILS

C-516

BM-6

BM-7

BENCHMARK (SEE DATA TABLE, SHT. C-101)

SCENIC HWY 98
EXISTING ASPHALT ROAD (TYP.)
(100' RIGHT-OF-WAY)

EXISTING CONCRETE PAVEMENT

EXISTING CURB AND GUTTER (TYP.)

DETECTABLE WARNING DOMES (TYP.) (SEE DETAILS, SHT. C-516)

CROSSWALK STRIPING (TYP.)(SEE DETAILS, SHTS. C-704 AND C-705)

DETECTABLE WARNING DOMES (TYP.) (SEE DETAILS, SHT. C-516)

CROSSWALK STRIPING (TYP.)(SEE DETAILS, SHTS. C-704 AND C-705)

DETECTABLE WARNING DOMES (TYP.) (SEE DETAILS, SHT. C-516)

R5-01 DO NOT ENTER

EXISTING CONCRETE SIDEWALK (TYP.)

EXISTING CONCRETE DRIVE (TYP.)

EXISTING CONCRETE SIDEWALK (TYP.)

DETECTABLE WARNING DOMES (TYP.)(SEE DETAILS, SHT. C-516)

LSV PARKING ONLY CUSTOM

18'

34.77'

CROSSWALK STRIPING (TYP.)(SEE DETAILS, SHTS. C-704 AND C-705)

DETECTABLE WARNING DOMES (TYP.)(SEE DETAILS, SHT. C-516)

EXISTING CONCRETE SIDEWALK (TYP.)

ROW

STOP BAR (TYP.) (SEE DETAILS, SHT. C-704)

R7-01 NO PARKING ANY TIME

STOP

ONLY

R1-01 AND R3-5R

6 STD SPACES

9' (TYP.)

CONCRETE BUMPER GUARD (TYP.) (SEE DETAILS, SHT. C-515)

19.0' (TYP.)

5.0' (TYP.)

6.0' (TYP.)

PROPERTY LINE (TYP.)

EXISTING CONCRETE RETAINING WALL (TYP.)

EXISTING CONCRETE RETAINING WALL (TYP.)

STOP BAR (TYP.) (SEE DETAILS, SHT. C-704)

STOP

ONLY

R1-01 AND R3-5R

SOLID 6" REFLECTIVE WHITE STRIPE (TYP.)

COASTAL CONSTRUCTION CONTROL LINE (CCCL)

SOLID 6" REFLECTIVE WHITE STRIPE (TYP.)

6 STD SPACES

7 STD SPACES

6.0'

LANDSCAPE AREA (TYP.)

EXISTING BRICK DRIVE (TYP.)

EXISTING 2-STORY STUCCO GARAGE

PROPERTY LINE (TYP.)

R7-01 NO PARKING ANY TIME

39.00' (TYP.)

58.00'

SOLID 6" REFLECTIVE WHITE STRIPE (TYP.)

CONCRETE SIDEWALK (TYP.)

EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT (34 LSV SPACES)

17 LSV SPACES

17 LSV SPACES

COASTAL CONSTRUCTION CONTROL LINE (CCCL)

CONCRETE BUMPER GUARD (TYP.) (SEE DETAILS, SHT. C-515)

19' (TYP.)

EXISTING CONCRETE RETAINING WALL (TYP.)

12' (TYP.)

10.5' (TYP.)

10.5' (TYP.)

12' (TYP.)

PROPERTY LINE (TYP.)

R7-01 NO PARKING ANY TIME

VAN ACCESSIBLE PASSENGER PARKING R7-08 AND R7-08P

ADA ACCESSIBLE PARKING PAVEMENT MARKINGS AND SIGNAGE (TYP.)(SEE DETAILS, SHTS. C-702 THRU C-705)

WHITE REFLECTIVE TRAFFIC ARROW (TYP.) (SEE DETAILS, SHT. C-705)

5'

8.55'

SOLID 6" REFLECTIVE WHITE STRIPE (TYP.)

6' (TYP.)

PROPERTY LINE (TYP.)

R5-11 AUTHORIZED VEHICLES ONLY

EXISTING 3-STORY STUCCO RESIDENCE

EXISTING PALM TREE (TYP.)

EXISTING COVERED PAVILION (TYP.)

EXISTING RESTROOM

EXISTING WOOD RAMP (TYP.)

RESTROOM FACILITY (SEE ARCHITECTURAL PLANS)

N

SCALE: 1" = 10'

10' 5' 0' 10'

TRAFFIC SIGN LEGEND:

R1-01 (36"X36") – DENOTES STOP SIGN

R3-5R – DENOTES RIGHT TURN ONLY SIGN

R5-11 – DENOTES AUTHORIZED VEHICLES ONLY SIGN

R7-01 – DENOTES NO PARKING ANY TIME SIGN

R7-08 – DENOTES ADA RESERVED PARKING SIGN

R7-08P – DENOTES ADA VAN ACCESSIBLE SIGN

CUSTOM – DENOTES LSV PARKING ONLY SIGN

RS-1 – DENOTES DO NOT ENTER SIGN

NOTES:

1. SEE SHEET C-101 FOR SURVEY BENCHMARKS, SURVEY SYMBOL LEGEND AND ABBREVIATION LEGEND.
2. REFER TO CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD) U.S. DEPARTMENT OF TRANSPORTATION.
3. ADA ACCESSIBLE PARKING PAVEMENT MARKINGS AND SIGNAGE SHALL MEET ALL STATE AND FEDERAL CODES.

ALL ROADWAY STRIPING SHALL BE COLOR AS INDICATED AS SPECIFIED IN THE PROJECT SPECIFICATIONS

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
14101 PANAMA CITY BEACH PARKWAY, SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-0150
FLORIDA CERTIFICATE OF AUTHORIZATION #00000670
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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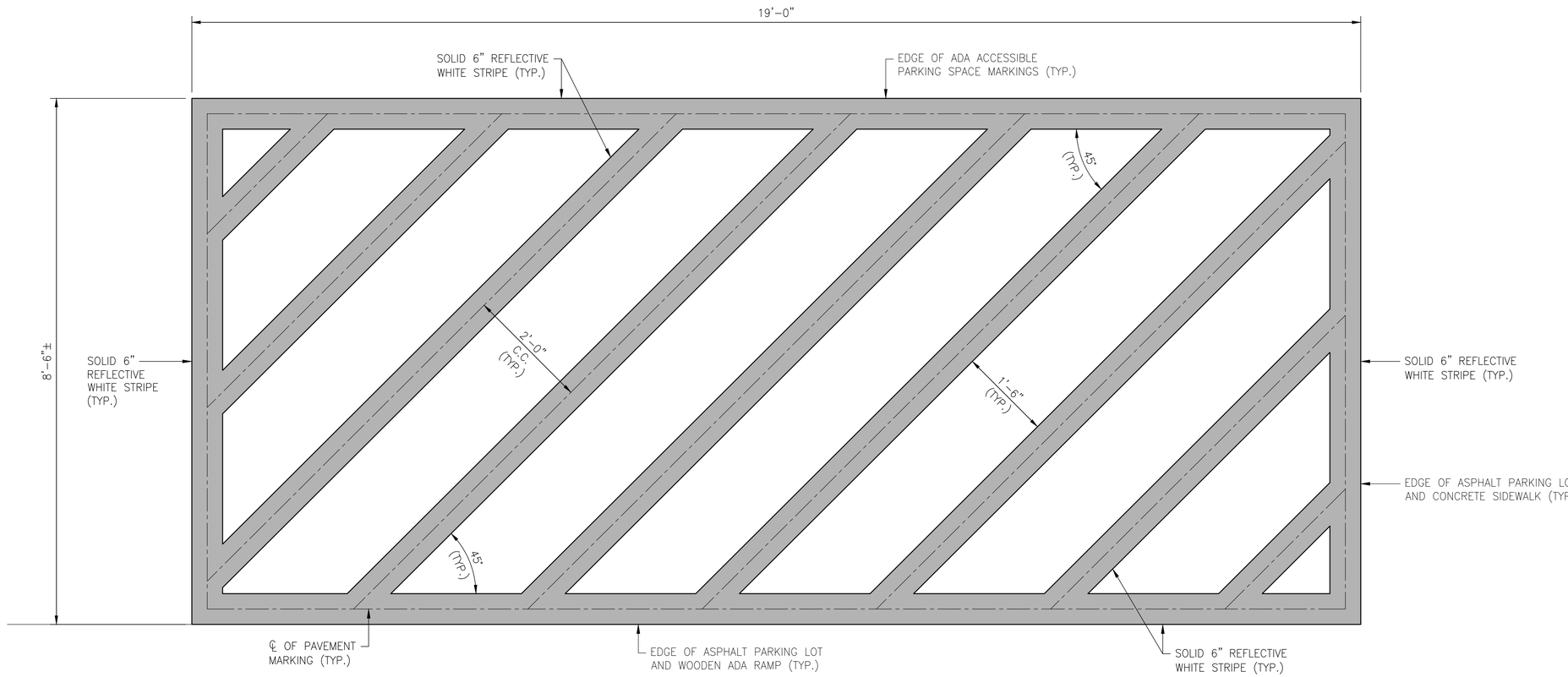
NOT RELEASED FOR CONSTRUCTION

PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

STRIPING AND SIGNAGE PLAN

C-700

ALL ROADWAY STRIPING SHALL BE COLOR AS INDICATED AS SPECIFIED IN THE PROJECT SPECIFICATIONS



TYPICAL NO PARKING ZONE PAVEMENT MARKING DETAIL

N.T.S.

NOTES:

1. REFER TO CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD) U.S. DEPARTMENT OF TRANSPORTATION.
2. CONTRACTOR TO ADJUST PAVEMENT MARKING IF REQUIRED.

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PANAMA CITY BEACH, FL 32413 (850) 230-0150
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SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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NOT RELEASED FOR CONSTRUCTION

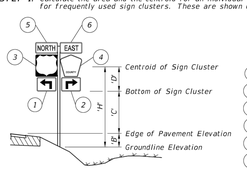
PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

MISCELLANEOUS STRIPING AND SIGNAGE DETAILS

C-701

100% SUBMITTAL

STEP 1: *Calculate the area and the centroid for an individual sign or a sign cluster. Note that the centroid and areas have been calculated for frequently used sign clusters. These are shown on Sheets 7, 8, and 9.*



	Size a x h	Centroid Local $'X_{Pn}$	Centroid Global $'X_n$	Centroid Global $'Y_n$	$'A_{Pn}$	$'X_n \times 'A_{Pn}$	$'Y_n \times 'A_{Pn}$
	(in. x in.)	(in.)	(in.)		(in.²)	(in.³)	(in.³)
1	21 x 15	7.5	-10.5-1.5-1.5 = -13.5	7.5	315	-4,252.5	2,362.5
2	21 x 15	7.5	10.5+1.5+1.5 = 13.5	7.5	315	+4,252.5	2,362.5
3	24 x 24	12	-12-1.5 = -13.5	15+1+12 = 28	576	-7,776	16,128
4	24 x 24	12	12+1.5 = 13.5	15+1+12 = 28	436	5,886	12,208
5	24 x 12	6	-12-1.5 = -13.5	15+1+24+1+6 = 47	288	-3,888	13,536
6	24 x 12	6	12+1.5 = 13.5	15+1+24+1+6 = 47	288	3,888	13,536
				TOTALS	2,218	-1,890	60,133

$\Sigma\,('A_{Pn}) = 2{,}218\ in.^2 = 15.4\ ft.^2$ $\quad \Sigma\,('X_{Pn} \times 'A_{Pn}) = -1{,}890\ in.^3 = -1.09\ ft.^3$ $\quad \Sigma\,('Y_n \times 'A_{Pn}) = 60{,}133\ in.^3 = 34.8\ ft.^3$

$$'X_c = \frac{\Sigma\,('X_{Pn} \times 'A_{Pn})}{\Sigma\,'A_{Pn}} = -0.1\ ft. \qquad 'Y_c = \frac{\Sigma\,('Y_n \times 'A_{Pn})}{\Sigma\,'A_{Pn}} = 2.26\ ft.$$

STEP 2: *Determine the height 'H' from groundline to the centroid of the individual sign or sign cluster.*

Assume: 'B' = 1 ft., 'C' = 7 ft.

Calculated: $'X_c = -0.1$ ft., $'Y_c =$ 'D' 2.26 ft.

$'H' = 'B' + 'C' + 'D' = 10.26$ ft. ==> USE 11 ft. $\quad \Sigma\,('A_{Pn}) = 15.4\ ft.^2$ ==> USE 16 ft.²

STEP 3: *Refer to the Aluminum Column (Post) Selection Tables and find the intersection point. See Sheet 3.*

ALUMINUM COLUMN (POST) SELECTION TABLE

TOTAL PANEL AREA (SF)	'H' (FT) 8 ft	9 ft	10 ft	11 ft	12 ft	13 ft	14 ft	15 ft	16 ft	17 ft	18 ft	19 ft	20 ft
3 sf	2	2.5	2.5	2.5	3	3	3	3	3	3.5	3.5	3.5	3.5
4 sf	2.5	2.5	3	3	3	3	3.5	3.5	3.5	3.5	3.5	3.5	3.5
5 sf	2.5	3	3	3	3.5	3.5	3.5	3.5	3.5	3.5	4	4	4
6 sf	3	3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4	4	4
7 sf	3	3.5	3.5	3.5	3.5	3.5	3.5	4	4	4	4	4	4
8 sf	3.5	3.5	3.5	3.5	3.5	3.5	4	4	4	4	4	4	4
9 sf	3.5	3.5	3.5	3.5	3.5	4	4	4	4	4	4	4	4
10 sf	3.5	3.5	3.5	3.5	4	4	4	4	4	4	4	4.5	4.5
11 sf	3.5	3.5	3.5	4	4	4	4	4	4	4	4.5	4.5	4.5
12 sf	3.5	3.5	3.5	4	4	4	4	4	4	4	4.5	4.5	4.5
13 sf	3.5	3.5	4	4	4	4	4	4	4	4.5	4.5	4.5	5
14 sf	3.5	3.5	4	4	4	4	4	4	4.5	4.5	4.5	5	5
15 sf	3.5	4	4	4	4	4	4	4.5	4.5	4.5	5	5	5
16 sf	3.5	4	4	4	4	4	4	4.5	4.5	5	5	5	6
17 sf	4	4	4	4	4	4	4.5	4.5	4.5	5	5	6	6
18 sf	4	4	4	4	4	4.5	4.5	4.5	5	5	6	6	6
19 sf	4	4	4	4	4	4.5	4.5	4.5	5	5	6	6	6
20 sf	4	4	4	4	4.5	4.5	4.5	5	5	5	6	6	6
21 sf	4	4	4	4	4.5	4.5	5	5	5	6	6	6	6
22 sf	4	4	4	4.5	4.5	4.5	5	5	6	6	6	6	6
23 sf	4	4	4	4.5	4.5	5	5	5	6	6	6	6	6
24 sf	4	4	4.5	4.5	4.5	5	5	5	6	6	6	6	6
25 sf	4	4	4.5	4.5	5	5	5	6	6	6	6	6	8
26 sf	4	4.5	4.5	4.5	5	5	5	6	6	6	6	8	8
27 sf	4	4.5	4.5	4.5	5	5	6	6	6	6	6	8	8
28 sf	4	4.5	4.5	5	5	5	6	6	6	6	6	8	8
29 sf	4.5	4.5	4.5	5	5	6	6	6	6	6	8	8	8
30 sf	4.5	4.5	5	5	5	6	6	6	6	6	8	8	8

For 'H' = 11 ft., Area = 16 ft.²

- *Refer to the Aluminum Column (Post) Selection Table, from Sheet 3 and shown here for reference.*
- *To determine the required post size, find the intersection of the row labeled "16 SF" and the column labeled "11 FT". For the example the intersection value is "4" (4" OD).*
- *In the Column (Post) and Foundation Table, the value "4" shows the design requires a 4.0" diameter and ¼" thick Aluminum Column (Post) and a 2.0' diameter and 3.5' deep Concrete Foundation and 3.0' Stub.*

STEP 4: *For sign assemblies with signs oriented in two directions, only the sign with the largest area should be analyzed to determine the Column (Post) requirements.*

GUIDE TO USE THIS INDEX

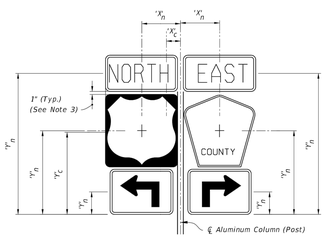
SHEET	CONTENTS
1	General Notes and Design Example
2	Design Example – Centroid
3	Column and Foundation Tables
4	Slip Base and Foundation Details
5	Driven Post, Concrete Stub, and Soil Plate Details
6	Wind Beam Connection
7, 8 & 9	Frequently Used Sign Clusters

GENERAL NOTES:

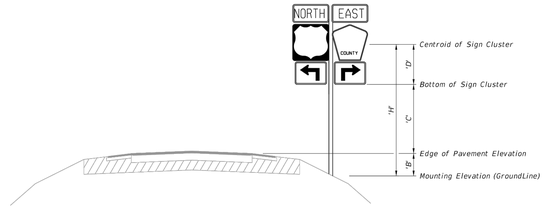
1. *Shop Drawings:*
   This Index is considered fully detailed. Submit Shop Drawings only for minor modifications not detailed in the Plans.
2. *Aluminum Sign, Wind Beams and Column (Post) Materials:*
   A. Aluminum Plates: ASTM B209, Alloy 6061-T6
   B. Aluminum Bars and Extruded Shapes: ASTM B221, Alloy 6061-T6
   C. Aluminum Structural Shapes: ASTM B221 Alloy 6061-T6
   D. Cast Aluminum: ASTM B26 Alloy A356-T6
   E. Aluminum Weld Material: ER 5556 or 5356
3. *Galvanized Steel Slip Base Stub Materials:*
   A. Steel Plate and Structural Shapes: ASTM A36 or ASTM A709, Grade 36
   B. Steel Weld Metal: E70XX
4. *Sign Mounting Bolts, Nuts and Washers:*
   A. Aluminum Button Head and Flat Head Bolts: ASTM F468 Alloy 2024-T4
   B. Aluminum Hex Nuts: ASTM F467 Alloy 6061-T6 or 6262-T9
   C. Aluminum Washers: ASTM B221, Alloy 7075-T6
5. *Stainless Steel Bolts, Nuts and Washers may be used in lieu of the Aluminum button head and flat head bolts as follows:*
   A. Stainless Steel Bolts: ASTM Ft 593 Alloy Group 2, Condition A, CW1 or SH1
   B. Stainless Steel Nuts: ASTM F594
6. *Sign Column (Post) Bolts, Nuts and Washers:*
   A. Galvanized U-Bolt (Column): ASTM A449 or ASTM A193 B7 according to ASTM F2329 with double nuts (nut and lock washer optional).
   B. Aluminum Bolts (Sleeve): ASTM F468, Alloy 6061-T6 or 2024-T4 with Hex Nuts F467 6061-T6 or 6262-T9 and Washers B221, Al clad 2024-T4
   C. Galvanized High Strength Hex Head Bolts (Base Bolts): ASTM F3125, Grade A325, Type 1
   D. Galvanized Hex Nuts: ASTM A563 Grade D
   E. Galvanized Washers: ASTM F436
   F. Galvanized Bolts (Sleeve): ASTM A307 with Galvanized Hex Nuts and Washers
7. *Coatings:*
   A. Aluminum Fasteners: Anodic coating (0.0002 inches mint.) and chromate sealed
   B. High Strength Steel Bolts Nuts and Washers: ASTM F2329
   C. All other steel items (excluding stainless steel): Hot-dip Galvanize-ASTM A123
   D. Repair damaged galvanizing in accordance with Specification 562
8. *BREAKAWAY SUPPORTS REQUIREMENTS: Install non-frangible aluminum column (post) (larger than 3½") with breakaway supports as shown on Sheet 4. Signs shielded by barrier wall or guardrail do not require breakaway support.*

GENERAL NOTES AND DESIGN EXAMPLE

LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	SINGLE COLUMN GROUND SIGNS	INDEX	SHEET
11/01/20	REVISION				700-010	1 of 10



SIGN CLUSTER



TYPICAL SECTION

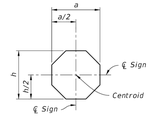
$$'X_c = \frac{\Sigma\,('X_n \times 'A_n)}{\Sigma\,'A_n} \qquad 'C' = 'Y_c = \frac{\Sigma\,('Y_n \times 'A_n)}{\Sigma\,'A_n}$$

'A_n' = Area of individual sign
'B' = Height of the edge of pavement from the mounting elevation
'C' = Height of the the bottom of the sign or cluster from the edge of pavement elevation
'D' = Height of the centroid of the sign or cluster from the bottom of the sign or cluster
h = Individual sign height
'H' = Height of sign or cluster centroid from groundline
a = Individual sign width
'X_c' = Centroid horizontal location of sign or cluster from ℄ Aluminum Column (Post)
'Y_c' = Centroid height of sign or cluster from bottom of sign cluster
'X_n' = Individual sign centroid horizontal location from ℄ Aluminum Column (Post)
'Y_n' = Individual Sign centroid height from bottom of sign cluster

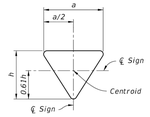
NOTES:

1. *For 'B' & 'C' see Index 700-101 and Roadway Plans.*
2. *Do not exceed an area of 30 SF or a width of 60 inches for a sign or a sign cluster, including rotated sign panels.*
3. *Vertical sign spacing (1" shown on Sign Cluster detail) also applies to rotated signs.*

CALCULATION OF SIGN CLUSTER CENTROID



STOP



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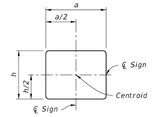
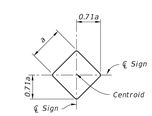
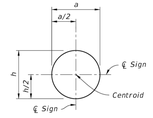


RECTANGLE



DIAMOND



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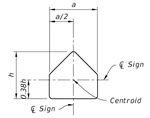
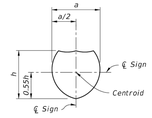
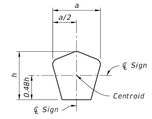


SCHOOL



SHIELD



COUNTY

DESIGN EXAMPLE - CENTROID

LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	SINGLE COLUMN GROUND SIGNS	INDEX	SHEET
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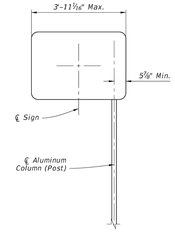
ALUMINUM COLUMN (POST) SELECTION TABLE (O.D. in.)

TOTAL PANEL AREA (SF)	'H' (FT) 8 ft	9 ft	10 ft	11 ft	12 ft	13 ft	14 ft	15 ft	16 ft	17 ft	18 ft	19 ft	20 ft
3 sf	2	2.5	2.5	2.5	3	3	3	3	3.5	3.5	3.5	3.5	3.5
4 sf	2.5	2.5	3	3	3	3	3.5	3.5	3.5	3.5	3.5	3.5	3.5
5 sf	2.5	3	3	3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4	4
6 sf	3	3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4	4	4
7 sf	3	3.5	3.5	3.5	3.5	3.5	3.5	4	4	4	4	4	4
8 sf	3.5	3.5	3.5	3.5	3.5	3.5	4	4	4	4	4	4	4
9 sf	3.5	3.5	3.5	3.5	3.5	4	4	4	4	4	4	4.5	4.5
10 sf	3.5	3.5	3.5	3.5	4	4	4	4	4	4	4.5	4.5	4.5
11 sf	3.5	3.5	3.5	4	4	4	4	4	4	4.5	4.5	4.5	5
12 sf	3.5	3.5	3.5	4	4	4	4	4	4	4.5	4.5	5	5
13 sf	3.5	3.5	4	4	4	4	4	4	4.5	4.5	4.5	5	5
14 sf	3.5	3.5	4	4	4	4	4	4.5	4.5	4.5	5	5	5
15 sf	3.5	4	4	4	4	4	4	4.5	4.5	5	5	5	6
16 sf	3.5	4	4	4	4	4	4.5	4.5	5	5	5	6	6
17 sf	4	4	4	4	4	4.5	4.5	4.5	5	5	6	6	6
18 sf	4	4	4	4	4.5	4.5	4.5	5	5	6	6	6	6
19 sf	4	4	4	4	4.5	4.5	5	5	5	6	6	6	6
20 sf	4	4	4	4.5	4.5	5	5	5	6	6	6	6	6
21 sf	4	4	4	4.5	4.5	5	5	5	6	6	6	6	6
22 sf	4	4	4.5	4.5	4.5	5	5	6	6	6	6	6	8
23 sf	4	4	4.5	4.5	5	5	5	6	6	6	6	6	8
24 sf	4	4	4.5	4.5	5	5	6	6	6	6	6	8	8
25 sf	4	4.5	4.5	4.5	5	5	6	6	6	6	6	8	8
26 sf	4	4.5	4.5	5	5	5	6	6	6	6	8	8	8
27 sf	4	4.5	4.5	5	5	6	6	6	6	6	8	8	8
28 sf	4	4.5	4.5	5	5	6	6	6	6	6	8	8	8
29 sf	4.5	4.5	4.5	5	5	6	6	6	6	6	8	8	8
30 sf	4.5	4.5	5	5	5	6	6	6	6	6	8	8	8

FOUNDATION TABLE						
Column (Post) Size		Foundation Alternatives				
		Driven Post *		Concrete (Class II)		
Outside Diameter (in)	Wall Thk. (in)	Embedment Depth (ft) without Soil Plate	Embedment Depth (ft) with Soil Plate	Diameter (ft)	Embedment Depth (ft)	Stub Length (ft)
2.0	⅛	4.5	2.5	---	---	---
2.5	⅛	5.0	3.0	---	---	---
3.0	⅛	5.0	3.5	---	---	---
3.5	5/16	6.0	4.5	---	---	---
4.0	¼	---	---	2.0	3.5	3.0
4.5	¼	---	---	2.0	4.0	3.0
5.0	¼	---	---	2.0	4.5	3.0
6.0	¼	---	---	2.0	5.0	3.0
8.0	¼	---	---	2.0	5.5	3.0

INSTALLING FRANGIBLE COLUMN SUPPORTS:

Columns (posts) 3½" O.D. and less are considered frangible and may be installed either by driving the post or setting the posts in preformed holes. Backfill preformed holes with suitable material tamped in layers not thicker than 6" (to provide adequate compaction) or filled with flowable fill or bagged concrete.



OFFSET SIGN

NOTES:

1. *For offset sign placement see Index 700-101.*
2. *For signs with widths greater than 4' see Index 700-011.*
3. *Offset signs with driven posts require a soil plate.*

COLUMN AND FOUNDATION TABLES

LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	SINGLE COLUMN GROUND SIGNS	INDEX	SHEET
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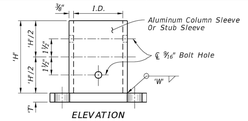
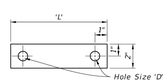
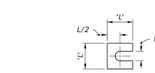




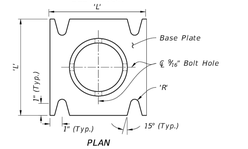
28 Ga. Thick Aluminum Strip
2 Reqd. Per Base

BOLT KEEPER PLATE DETAIL

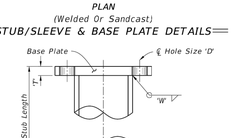


Provide 2~0.0149" Thick (28 gauge)
and 2~0.0329" Thick (21 gauge)
Brass Shims Per Post

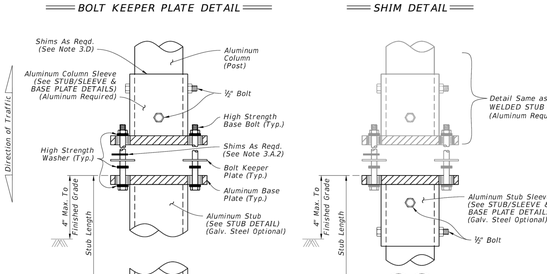
SHIM DETAIL



STUB/SLEEVE & BASE PLATE DETAILS

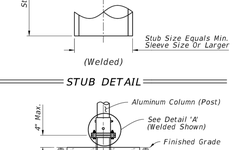


STUB DETAIL

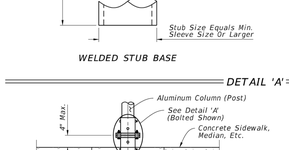


NOTES:

1. *Foundation Notes for Slip Base:*
   A. Place Stub into concrete foundation given in the FOUNDATION TABLE using Class II Concrete.
2. *Slip Base Fabrication Notes:*
   A. The difference between the O.D. of the post and I.D. of the Sleeve must be 1/16" or less.
   B. The WELDED STUB BASE and lower STUB/SLEEVE BASE PLATE may be fabricated using galvanized steel as an option to aluminum. The upper portion of the SLIP BASE must be aluminum.
   C. Either a Welded Stub Base or Bolted Stub/Sleeve Base may be used in Slip Base.
   D. For cast base plates bolted to foundation stubs, use a foundation stub the same size as the sign column (Post).
3. *Slip-Base Assembly Instructions:*
   A. Assemble the Slip Base as follows:
      1. Insert Post into Sleeve and connect using 2 ~ ½" diameter Sleeve Bolts.
      2. Assemble top base plate to bottom Base Plate using Base Bolts (High strength) with 3 washers per bolt. (See Detail 'A').
         a. Place one washer on each Base Bolt between the bottom Base Plate and the Base Bolt head.
         b. Place the next washer between the Bottom Base Plate and the Bolt Keeper Plate.
         c. Use brass or galvanized steel shims to plumb the post.
         d. Add the top base plate section.
         e. Place the third washer between the Top Base Plate and the Nut.
   B. Orient the Bolt Keeper Plates in the Direction of Traffic.
   C. Tighten Base Bolts as follows:
      1. Tighten Base Bolts to the maximum possible with a 12" to 15" wrench (this will bed the washers and shims and clear the bolt threads).
      2. Loosen each Base Bolt one turn.
      3. Under the supervision of the Engineer, use a calibrated wrench to tighten bolts to the torque prescribed in the SLIP BASE DETAILS Table. Over tightened Base Bolts are not permitted.
      4. Distort bolt threads at the junction with nuts to prevent loosening. Repair damaged galvanizing.
   D. Obtain a tight sleeve connection by placing 4 galvanized steel shims between the column (post) and sleeve. Space the shims evenly around the perimeter of the column (1 between each bolt hole, 4 total). Use shims that are 1" shorter than the height of the sleeve.



SLIP BASE AND FOUNDATION DETAIL
(Non-Frangible Column, Typ.)



SLIP BASE AND FOUNDATION DETAIL IN CONCRETE
(Non-Frangible Column In Crossovers, Medians & Sidewalks)

SLIP BASE DETAILS

Column (Post) Size										
Outside Dia.	Wall Thickness	Sleeve I.D. (Max.)	Sleeve Height 'H'	Weld 'W'	Base Plate 'L'	Base Plate 'T'	Radius 'R'	Base Bolt Size	Base Bolt Length	Base Plate Torque ft-lbs	Base Plate Torque in.-lbs	Hole Size 'D'	SHIM L	SHIM M
4"	¼"	4 5/16"	6"	¼"	8"	⅜"	1 1/2"	⅜"	3"	29	345	1 1/16"	1 3/8"	1 1/16"
4½"	¼"	4 9/16"	6"	¼"	8"	⅜"	1 1/2"	⅜"	3¼"	29	345	1 1/16"	1 3/8"	1 1/16"
5"	¼"	5 1/16"	7"	¼"	8"	⅜"	1 1/2"	⅜"	3¼"	29	345	1 1/16"	1 3/8"	1 1/16"
6"	¼"	6 1/16"	8"	¼"	9"	1"	1 3/4"	½"	3½"	46	554	1 5/16"	1 3/4"	1 3/16"
8"	¼"	8 1/16"	10"	¼"	11"	1"	1 3/4"	½"	3¾"	53	640	1 5/16"	2 3/4"	1 3/16"

SLIP BASE AND FOUNDATION DETAILS

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BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
14101 PANAMA CITY BEACH PARKWAY, SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-8150
ENGINEERING BUSINESS: EB-0000340
PENSACOLA • PANAMA CITY BEACH • TALLAHASSEE • MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

REVISION / ACTION TAKEN	NO.	DATE	APPR.
SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS	1	05/2025	JCP

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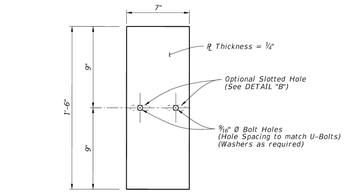
NOT RELEASED FOR CONSTRUCTION

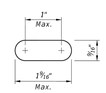
PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHKD BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

MISCELLANEOUS STANDARD FDOT DETAILS

C-702

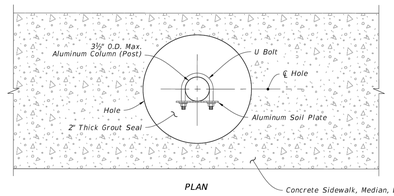


ALUMINUM SOIL PLATE DETAIL

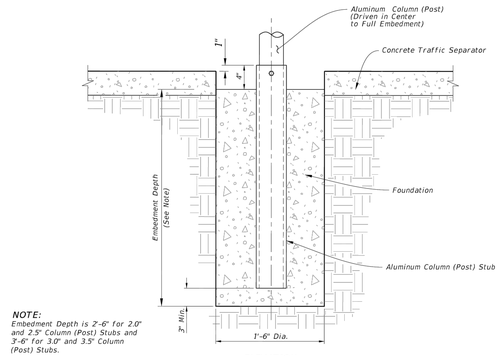


Optional Slotted Holes

DETAIL "B"



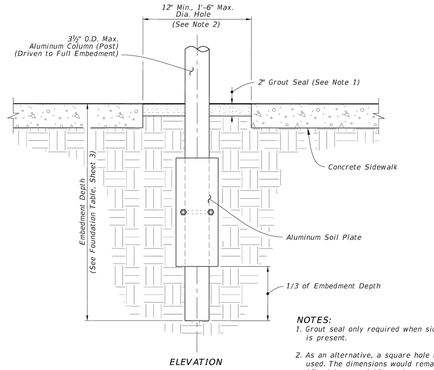
PLAN



ELEVATION

NOTE:
Embedment Depth is 2'-6" for 2.0" and 2.5" Column (Post) Stubs and 3'-6" for 3.0" and 3.5" Column (Post) Stubs.

CONCRETE/STUB DETAIL
(Traffic Separator)



ELEVATION

NOTES:
1. Grout seal only required when sidewalks is present.
2. As an alternative, a square hole may be used. The dimensions would remain, 12" minimum and 18" maximum.

DRIVEN POST DETAIL
(Frangible Post In Through Sidewalk Shown
Installations without Sidewalk Similar)

DRIVEN POST, CONCRETE/STUB, AND SOIL PLATE DETAILS

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	Size	Area	Total Area	Centroid
	36x12	3.00 SF		
STOP	24x24	3.31 SF	6.31 SF	1.75 Ft.
	36x12	3.00 SF		
STOP	30x30	5.18 SF	8.18 SF	1.92 Ft.
	36x12	3.00 SF		
STOP	36x36	7.46 SF	10.46 SF	2.10 Ft.
	36x12	3.00 SF		
STOP	48x48	13.25 SF	16.25 SF	2.48 Ft.
	24x24	3.31 SF		
STOP / DIVIDED HIGHWAY	24x18	3.00 SF	6.31 SF	1.71 Ft.
	30x30	5.18 SF		
STOP / DIVIDED HIGHWAY	30x24	5.00 SF	10.18 SF	2.19 Ft.
	36x36	7.46 SF		
STOP / DIVIDED HIGHWAY	36x24	5.00 SF	12.46 SF	2.55 Ft.

	Size	Area	Total Area	Centroid
	36x12	3.00 SF		
STOP	30x30	5.18 SF	13.18 SF	2.87 Ft.
DIVIDED HIGHWAY	30x24	5.00 SF		
	36x12	3.00 SF		
STOP	36x36	7.46 SF	15.46 SF	3.15 Ft.
DIVIDED HIGHWAY	30x24	5.00 SF		
	21x15	2.19 SF		
JCT 27	24x24	4.00 SF	6.19 SF	1.60 Ft.
	21x15	2.19 SF		
JCT 301	30x24	5.00 SF	7.19 SF	1.52 Ft.
	24x12	2.00 SF		
BUSINESS OR EAST 27 27	24x24	4.00 SF	6.00 SF	1.53 Ft.
	24x12	2.00 SF		
BUSINESS OR EAST 301 301	30x24	5.00 SF	7.00 SF	1.45 Ft.
	30x15	3.13 SF		
BUSINESS OR EAST 301 301	30x24	5.00 SF	8.13 SF	1.66 Ft.

	Size	Area	Total Area	Centroid
27	24x24	4.00 SF	6.19 SF	1.73 Ft.
	21x15	2.19 SF		
27	30x24	5.00 SF	7.19 SF	1.81 Ft.
	21x15	2.19 SF		
BUSINESS OR EAST 27 27	24x12	2.00 SF	8.19 SF	2.26 Ft.
	24x24	4.00 SF		
	21x15	2.19 SF		
BUSINESS OR EAST 301 301	24x12	2.00 SF	9.19 SF	2.27 Ft.
	30x24	5.00 SF		
	21x15	2.19 SF		
BUSINESS OR EAST 301 301	30x15	3.13 SF	10.32 SF	2.49 Ft.
	30x24	5.00 SF		
	21x15	2.19 SF		
EAST BUSINESS 27	24x12	2.00 SF	10.19 SF	2.80 Ft.
	24x12	2.00 SF		
	24x24	4.00 SF		
	21x15	2.19 SF		

LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	SINGLE COLUMN GROUND SIGNS	INDEX	SHEET
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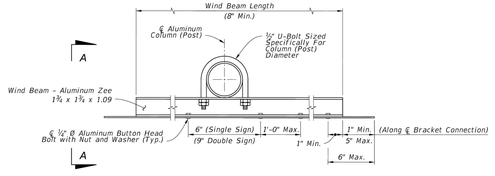
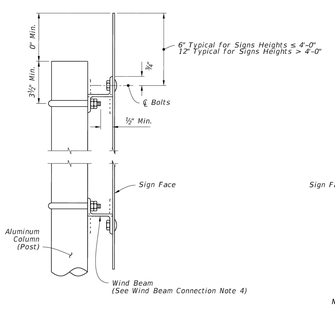
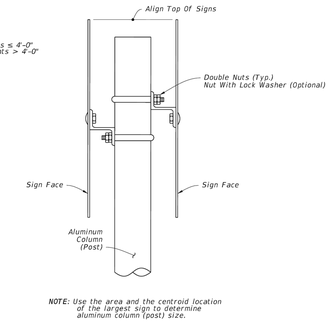


WIND BEAM CONNECTIONS DETAILS

NOTES:
1. 5/16" Ø stainless steel hex head bolts with nylon washer under head and washer under nut may be used in lieu of ¼" Ø aluminum button or flat head bolts.
2. Use nylon washers (provided by the sheeting supplier) under the bolt heads to protect sign sheeting.
3. Slots up to 2" long are allowed in wind beams to accommodate U-Bolts for varying Column (Post) diameters.
4. Wind beams may be oriented in either direction.
5. For signs greater than 66" in height, install a third wind beam evenly spaced between the top and bottom wind beams. For signs up to 12" in height, use only one wind beam at ℄ Sign. Install two wind beams on signs with heights greater than 12" and less than or equal to 66".



SINGLE SIGN DETAIL



NOTE: Use the area and the centroid location of the largest sign to determine aluminum column (post) size.

BACK-TO-BACK SIGN DETAIL

VIEW A-A

WIND BEAM CONNECTION

LAST REVISION	DESCRIPTION:	FDOT	FY 2025-26 STANDARD PLANS	SINGLE COLUMN GROUND SIGNS	INDEX	SHEET
11/01/22					700-010	6 of 11

	Size	Area	Total Area	Centroid
EAST TO INTERNAT 295 OR EAST TO INTERNAT 295	30x15	3.13 SF	12.12 SF	2.18 Ft.
	45x36	8.99 SF		
EAST TO INTERNAT 75 OR EAST TO INTERNAT 75	24x12	2.00 SF	7.39 SF	2.30 Ft.
	24x24	3.20 SF		
	21x15	2.19 SF		
EAST TO INTERNAT 295 OR EAST TO INTERNAT 295	24x12	2.00 SF	8.18 SF	2.31 Ft.
	30x24	3.99 SF		
	21x15	2.19 SF		
EAST TO INTERNAT 295 OR EAST TO INTERNAT 295	30x15	3.13 SF	9.31 SF	2.55 Ft.
	30x24	3.99 SF		
	21x15	2.19 SF		
OR AHEAD 200 FT	30x30	4.69 SF	6.69 SF	1.61 Ft.
	24x12	2.00 SF		
OR AHEAD 200 FT	30x30	4.69 SF	8.44 SF	1.77 Ft.
	30x18	3.75 SF		
OR AHEAD 200 FT	36x36	6.75 SF	10.50 SF	2.06 Ft.
	30x18	3.75 SF		

	Size	Area	Total Area	Centroid
	30x30	4.69 SF	6.69 SF	1.61 Ft.
	24x12	2.00 SF		
	30x30	4.69 SF	8.44 SF	1.77 Ft.
	30x18	3.75 SF		
	36x36	6.75 SF	10.50 SF	2.06 Ft.
	30x18	3.75 SF		
OR AHEAD	30x30	6.25 SF	8.25 SF	2.28 Ft.
	24x12	2.00 SF		
OR AHEAD	36x36	9.00 SF	12.75 SF	2.84 Ft.
	30x18	3.75 SF		
35 MPH	30x30	6.25 SF	10.25 SF	2.74 Ft.
	24x24	4.00 SF		
35 MPH	36x36	9.00 SF	15.25 SF	3.29 Ft.
	30x30	6.25 SF		

	Size	Area	Total Area	Centroid
OR X MILES XXX FEET	30x30	6.25 SF	9.25 SF	2.51 Ft.
	24x18	3.00 SF		
OR X MILES XXX FEET	36x36	9.00 SF	14.00 SF	3.06 Ft.
	30x24	5.00 SF		

LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	SINGLE COLUMN GROUND SIGNS	INDEX	SHEET
11/01/19					700-010	10 of 10

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
1401 PANAMA CITY BEACH PARKWAY - SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-8150
ENGINEERING BUSINESS: EB-0000340
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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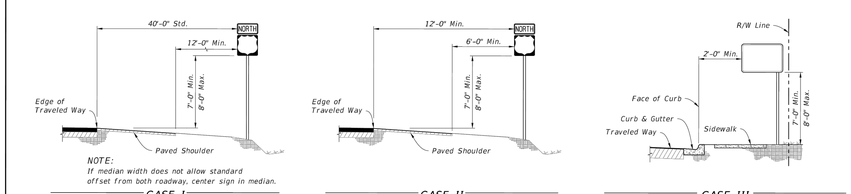
NOT RELEASED FOR CONSTRUCTION

PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR.: JCP
DATE: AUGUST 2025

MISCELLANEOUS
STANDARD FDOT DETAILS

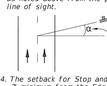
C-703

100% SUBMITTAL



GENERAL NOTES:

1. Single-Column Signs Shown, Multi-Column Signs similar. These typical sections serve as a guide for locating the traffic signs required under various roadside conditions. For size and details of sign construction and footing, refer to the appropriate Index and Plans.
2. Verify the length of sign supports in the field prior to fabrication.
3. Install ground signs at an angle of 1 to 4 degrees away from the traffic flow (see illustration). Install shoulder mounted signs rotated counterclockwise and median mounted signs rotated clockwise. Install signs on a curve as noted above from the perpendicular to the motorist line of sight.



4. The setback for Stop and Yield signs may be reduced to 3' minimum from the Edge of Traveled Way if required for visibility in business or residential sections with no curb and speeds of 30 MPH or less.
5. The mounting heights are measured from the bottom of the sign panel to a horizontal line extended from the Edge of Traveled Way or from the ground surface at the back of curb. If the standard heights cannot be met, the minimum heights are as follows:

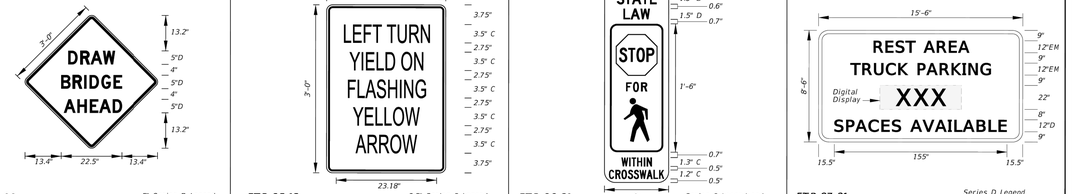
   Limited Access Roadways – 7'

   Arterial and Collector Roadways:
   5' – Rural
   7' – Urban (including residential with parking and/or pedestrian activity)

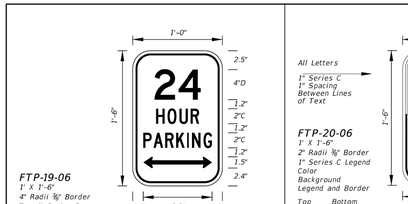
   Limited Access Roadways:
   If a secondary sign is mounted below the major sign, mount the major sign so that the bottom of the sign is at least 8' above the edge of the traveled way and the secondary sign at least 5' above the edge of the traveled way.

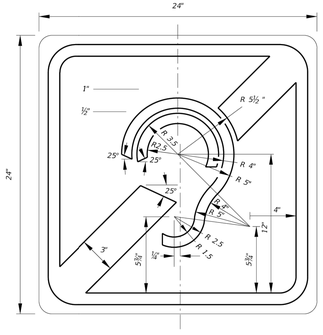
   Arterial and Collector Roadways:
   Rural, mount the secondary sign at least 5' above the edge of the traveled way.
   Urban, mount the secondary sign at least 7' above the edge of the traveled way.
6. Do not install sign supports in the bottom of ditches.
7. Install sign supports so they do not reduce the accessible Width of Sidewalks or Shared Use Paths to less than 4' min. clear width.
8. CASE X sign placement is for Interstate Exit Ramps only. Use CASE I through Case VIII as appropriate for all other Wrong Way signs.

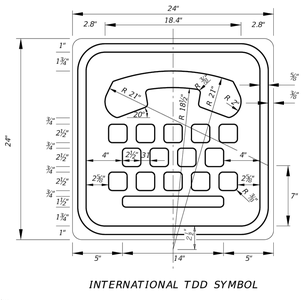
LAST REVISION	REVISION	DESCRIPTION:	FDOT		INDEX	SHEET
11/01/23			FY 2025-26 STANDARD PLANS	TYPICAL SECTIONS FOR PLACEMENT OF SINGLE AND MULTI-COLUMN SIGNS	700-101	1 of 1



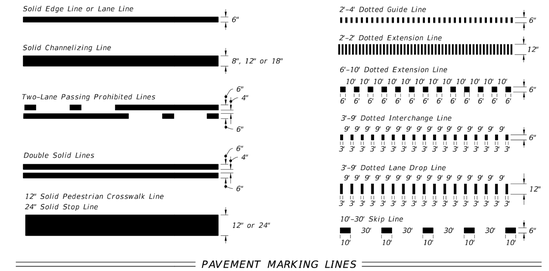
LAST REVISION	REVISION	DESCRIPTION:	FDOT		INDEX	SHEET
11/01/24			FY 2025-26 STANDARD PLANS	SPECIAL SIGN DETAILS	700-102	10 of 12







LAST REVISION	REVISION	DESCRIPTION:	FDOT		INDEX	SHEET
11/01/20			FY 2022-23 STANDARD PLANS	SPECIAL SIGN DETAILS	700-102	4 of 12



LAST REVISION	REVISION	DESCRIPTION:	FDOT		INDEX	SHEET
11/01/21			FY 2022-23 STANDARD PLANS	PAVEMENT MARKINGS	711-001	2 of 13

BASKERVILLE-DONOVAN, INC.
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14101 PANAMA CITY BEACH PARKWAY - SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-8150
ENGINEERING BUSINESS: EB-0000340
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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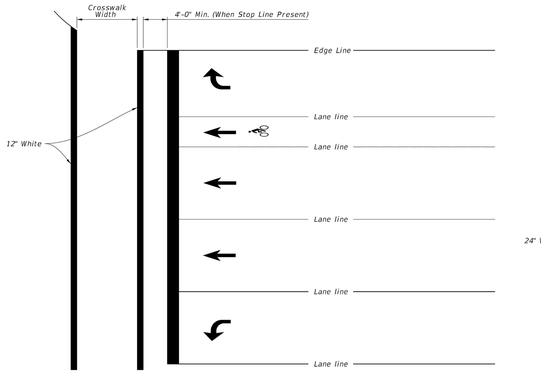
PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

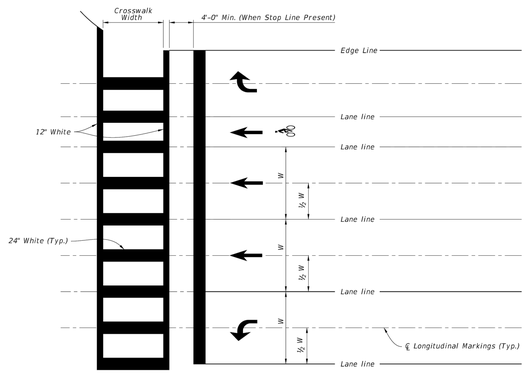
MISCELLANEOUS STANDARD FDOT DETAILS

C-704

100% SUBMITTAL



STANDARD CROSSWALK DETAILS

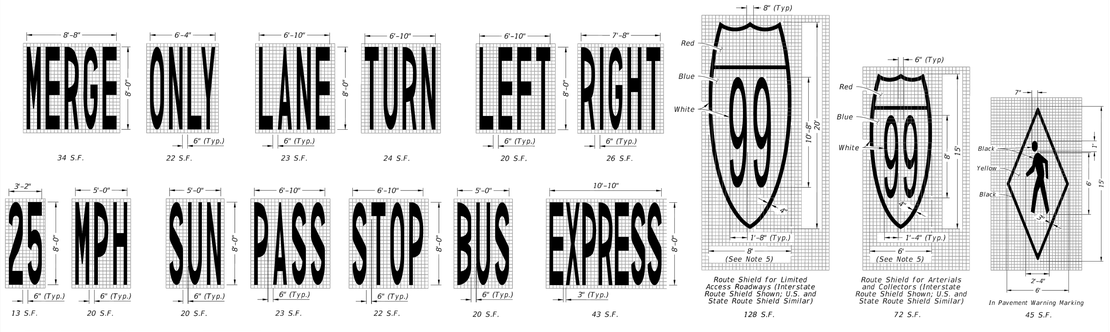


SPECIAL EMPHASIS CROSSWALK DETAILS

NOTES:

1. For crosswalk width, exceed width of the adjacent sidewalk, but do not make width less than 6' for intersection crosswalks and 10' for midblock crosswalks. Measure width from the inside of the transverse crosswalk markings.
2. When the Special Emphasis Crosswalk is not perpendicular to the lane lines, make the longitudinal markings parallel to the lane lines.
3. Refer to Index 522-002 when Curb Ramps are present.

LAST REVISION 11/01/21	REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001	SHEET 9 of 13

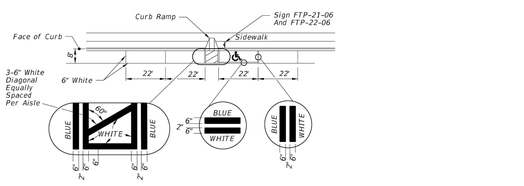


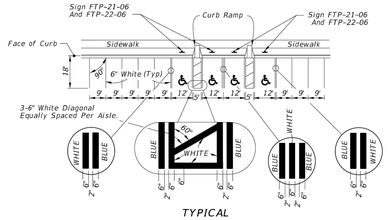
PAVEMENT MESSAGE AND ARROW DETAILS

PAVEMENT MESSAGES NOTES:

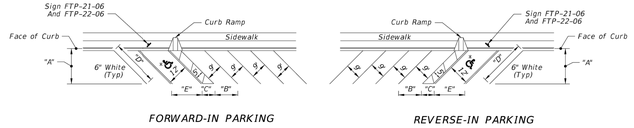
1. Place all pavement messages 25' back from the stop line.
2. Dimensions are within 1" ±.
3. All grids are 4' x 4'.
4. All pavement messages must be white except Route Shields and In Pavement Warning Markings.
5. Increase width of route shield for routes with three digits.

LAST REVISION 11/01/21	REVISION	DESCRIPTION:	FDOT	FY 2023-24 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001	SHEET 1 of 13





TYPICAL



FORWARD-IN PARKING

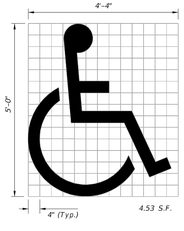
REVERSE-IN PARKING

"FOR ACCESSIBLE MARKINGS - SEE ABOVE

DIMENSIONS						
∠ θ	"A"	"B"	"C"	"D"	"E"	
45°	17'-0"	12'-9"	7'-0"	24'-0"	17'-0"	

PAVEMENT MARKING FOR PARKING





(See Note 5)

UNIVERSAL SYMBOL OF ACCESSIBILITY

NOTES:

1. Dimensions are to the centerline of markings.
2. An Access Aisle is required for each accessible space when angle parking is used.
3. Criteria for pavement markings only, not public sidewalk curb ramp locations. For ramp locations refer to plans.
4. Mount FTP-22-06 sign below the FTP-21-06 sign.
5. Use of the pavement symbol in accessible parking spaces is optional. When pavement symbol is used, the symbol is either 3'-0" or 5'-0" high and white in color.

LAST REVISION 11/01/21	REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001	SHEET 11 of 13

BASKERVILLE-DONOVAN, INC.
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1401 PANAMA CITY BEACH PARKWAY, SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-8150
ENGINEERING BUSINESS: EB-0000340
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

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1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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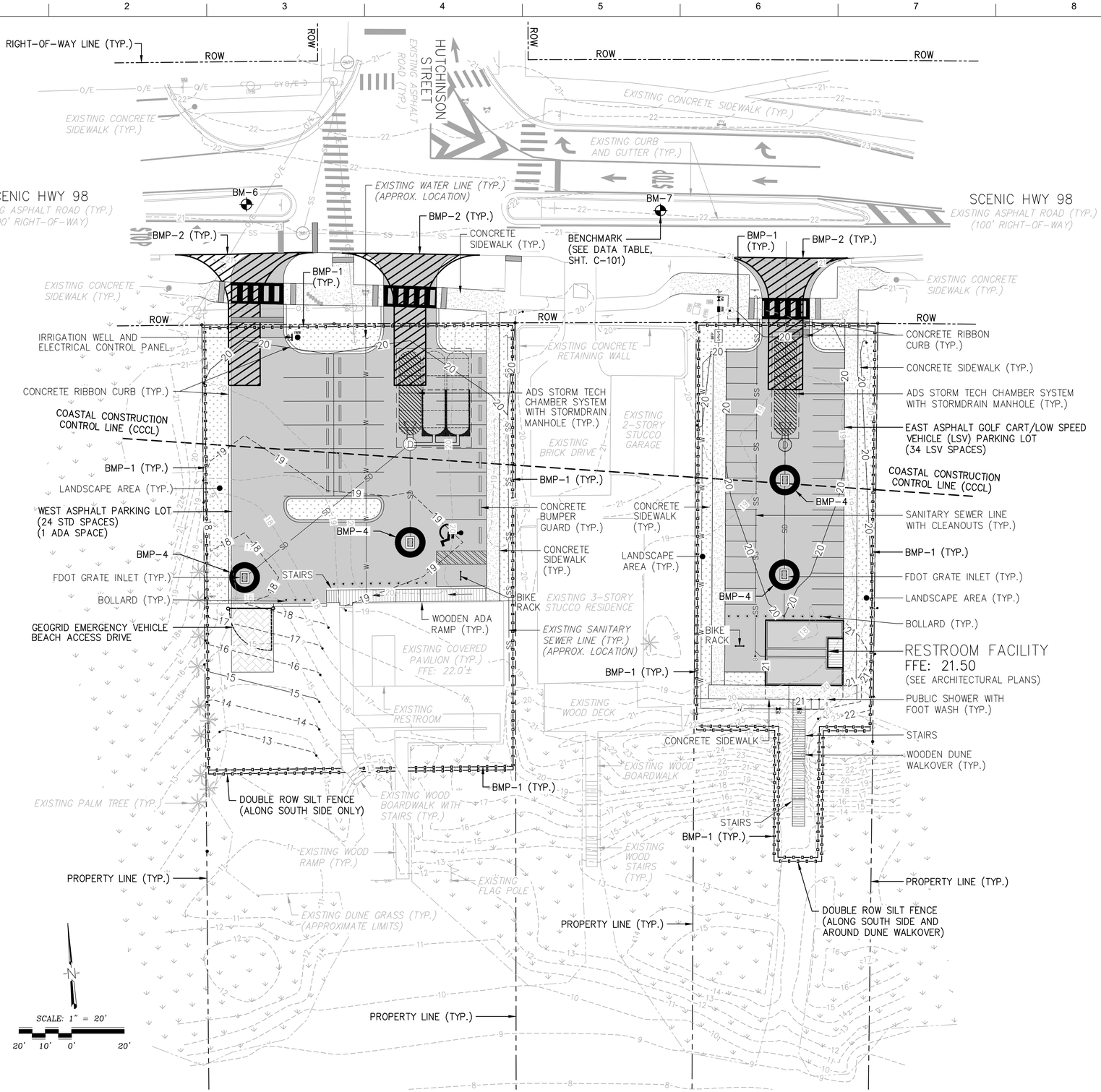
NOT RELEASED FOR CONSTRUCTION

PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR.: JCP
DATE: AUGUST 2025

MISCELLANEOUS
STANDARD FDOT DETAILS

C-705

100% SUBMITTAL



GENERAL NOTES:

1. SEE SHEET C-101 FOR SURVEY BENCHMARKS, SURVEY SYMBOL LEGEND AND ABBREVIATION LEGEND.
2. SEE SHEETS C-105 AND C-106 FOR GRADING AND STORM DRAINAGE PLANS.
3. CONTRACTOR TO USE CAUTION WHEN DIGGING NEAR EXISTING UTILITIES AND MAY BE REQUIRED TO HAND DIG IN SOME AREAS. CONTRACTOR MAY BE REQUIRED TO TEMPORARILY SUPPORT EXISTING UTILITIES WHILE INSTALLING STORM DRAINAGE PIPES.
4. SEE SHEET C-107 FOR STORM DRAINAGE STRUCTURE AND PIPE DATA TABLES.

EROSION CONTROL NOTES:

1. SEE SHEET G-001 FOR ADDITIONAL EROSION CONTROL NOTES.
2. SEE SHEETS C-801 THRU C-802 FOR BEST MANAGEMENT PRACTICES DETAILS.
3. EROSION CONTROL SYMBOLS ARE SHOWN EXAGGERATED FOR CLARITY.
4. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE (BMP-2) MEASURES AS NECESSARY TO PREVENT TRACKING ONTO ROADWAY.
5. THE EROSION AND SEDIMENT CONTROL PLAN SHOWN HEREIN ARE MINIMUM GUIDELINES. THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE UPDATED AS NECESSARY TO COMPLY WITH BEST MANAGEMENT PRACTICES AND LOCAL, STATE AND FEDERAL RULES AND REGULATIONS AS CONSTRUCTION PROGRESSES AND IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. ALL CONSTRUCTION ZONES ADJACENT TO WETLANDS SHALL HAVE A MINIMUM DOUBLE ROW OF SILT FENCE BARRIER OR STAKED AND STAGGERED GEOTEXTILE WADDLES AT WETLAND/CLEARING LIMITS.
7. CONTRACTOR IS FULLY RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR SEDIMENT AND EROSION CONTROL INCLUDING BUT NOT LIMITED TO NPDES PERMIT FOR DISCHARGES FROM LARGE AND SMALL CONSTRUCTION SITES.
8. CONTRACTOR SHALL DISPOSE OF ALL DEBRIS OFF-SITE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.
9. ALL SIDE SLOPES AND DISTURBED AREAS SHALL BE STABILIZED WITH SOD AND IN ACCORDANCE WITH LANDSCAPING PLANS.

EROSION CONTROL LEGEND

SILT FENCE (BMP-1)	
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE (BMP-2)	
STRAW BALE BARRIER (BMP-3)	
GEOTEXTILE WATTLES (BMP-4)	OR

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SHORE AT CRYSTAL BEACH EXPANSION

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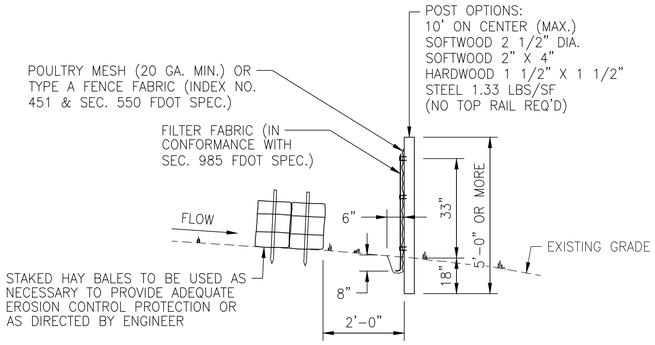
PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR.: JCP
DATE: AUGUST 2025

EROSION CONTROL PLAN

C-800

100% SUBMITTAL



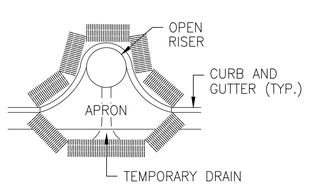
SILT FENCE NOTES:

1. FABRIC TO BE PLACED FACING DRAINAGE FLOW.
2. FABRIC TO BE PLACED IN A 6" WIDE X 8" DEEP CONTINUOUS TRENCH, THEN BACKFILLED.
3. ALL LUMBER TO BE PRESSURE/PRESERVATIVE TREATED.
4. SILT FENCE TO BE INSTALLED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. SILT FENCE TO REMAIN UNTIL 100% PROJECT GRASSING (STABILIZATION) IS ACHIEVED.
5. PREFABRICATED SILT FENCES ARE PERMITTED AS LONG AS THEY MEET OR EXCEED FDOT SPECIFICATIONS.

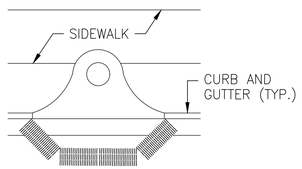
TYPE IV SILT FENCE DETAIL

N.T.S.

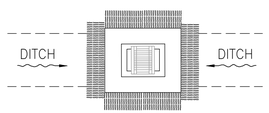
BMP 1



PARTIAL INLET
N.T.S.



COMPLETED INLET
N.T.S.



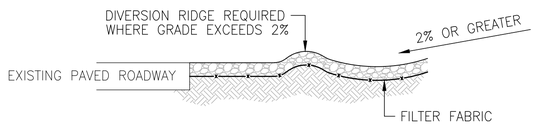
DITCH BOTTOM INLET
N.T.S.

ANCHOR BALES WITH 2 – 2"x2"x4' STAKES PER BALE

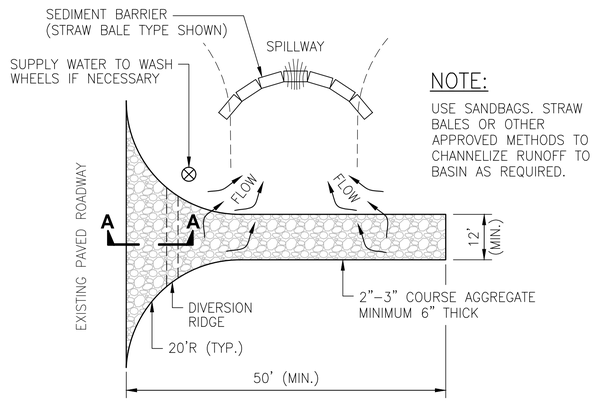
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

N.T.S.

BMP 3



SECTION A–A
N.T.S.



NOTE:
USE SANDBAGS. STRAW BALES OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO BASIN AS REQUIRED.

PLAN
N.T.S.

NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT–OF–WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE DETAIL

N.T.S.

BMP 2

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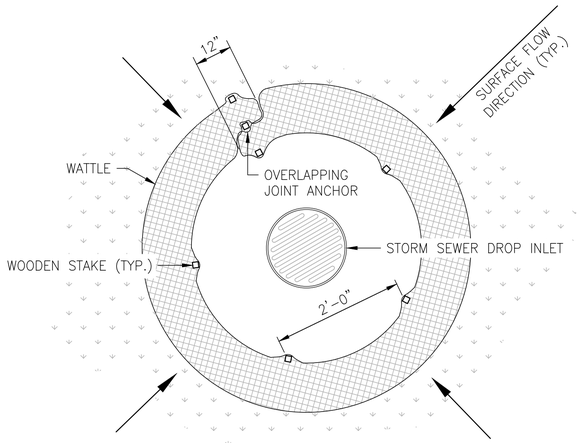
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

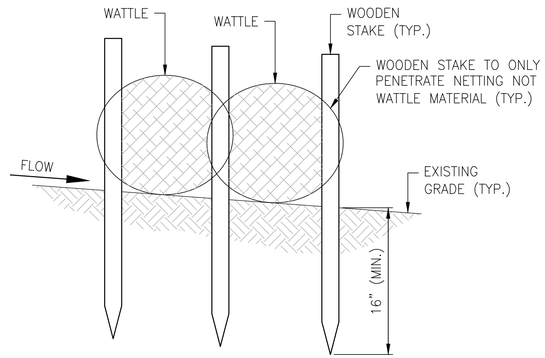
BEST MANAGEMENT PRACTICES DETAILS

C-801

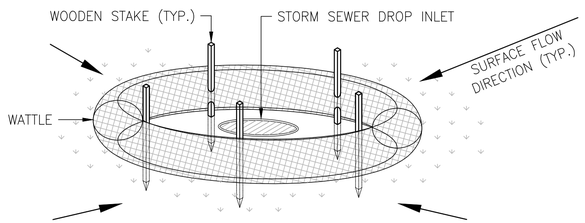
100% SUBMITTAL



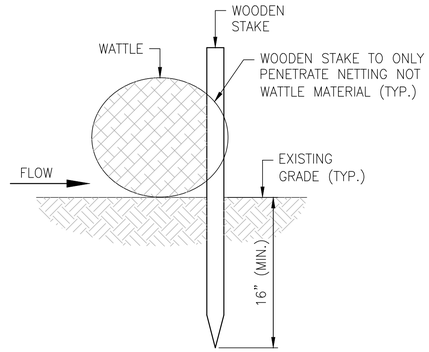
WATTLE DROP INLET PROTECTION DETAIL – PLAN VIEW
N.T.S.



WATTLE OVERLAPPING JOINT ANCHOR STAKE DETAIL
N.T.S.



WATTLE DROP INLET PROTECTION DETAIL
N.T.S.



WATTLE STAKE DETAIL
N.T.S.

WATTLE DETAILS
N.T.S.

BMP 4

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
1401 PANAMA CITY BEACH PARKWAY - SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 234-8150
ENGINEERING BUSINESS: EB-0000340
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

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BEST MANAGEMENT PRACTICES DETAILS

C-802

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NOTES:

1. SEE SHEET C-101 FOR SURVEY BENCHMARKS, SURVEY SYMBOL LEGEND AND ABBREVIATION LEGEND.
2. CONTRACTOR TO USE CAUTION WHEN DIGGING NEAR EXISTING UTILITIES AND MAY BE REQUIRED TO HAND DIG IN SOME AREAS. CONTRACTOR TO TEMPORARILY SUPPORT EXISTING UTILITIES DURING NEW UTILITY TRENCHING AND INSTALLATION.
3. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UTILITY LINES BEFORE PROCEEDING WITH ANY WATER AND SANITARY SEWER WORK. CHANGES IN LOCATION OR DEPTH SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE DESTIN WATER USERS.
4. USE CAUTION DURING INSTALLATION OF GRAVITY SEWER SYSTEM DUE TO NUMEROUS UTILITIES ALONG THE ALIGNMENT.
5. BACKFLOW PREVENTOR SHALL BE COVERED BY A NON-HEATED BUT INSULATED HOT BOX. (BASIS OF DESIGN: HUBBLE POWER SYSTEMS, INC. – HOT BOX FIBERGLASS FLIP TOP ENCLOSURE)

BM-6
10" PVC
SS
O/E
SMH
EXISTING SANITARY SEWER MANHOLE
RIM: 20.91'
E INV: 15.29'
W INV: 14.34'
EXISTING SANITARY SEWER LINE (TYP.)
10" PVC
EXISTING CONCRETE PAVEMENT
BM-7
EXISTING CURB AND GUTTER (TYP.)
SCENIC HWY 98
EXISTING ASPHALT ROAD (TYP.)
(100' RIGHT-OF-WAY)
BENCHMARK (SEE DATA TABLE, SHT. C-101)
WATER SERVICE POINT OF CONNECTION (SEE NOTE 3)
N 507952.79±
E 1361299.22±
SANITARY SEWER LINE POINT OF CONNECTION (SEE NOTE 3)
N 507969.91±
E 1361315.27±
EXISTING CONCRETE SIDEWALK (TYP.)
10' (MIN.) FRONT LANDSCAPE BUFFER (TYP.)
CONCRETE SIDEWALK (TYP.)
EXISTING CONCRETE DRIVE (TYP.)
WATER VALVE (TYP.)
(SEE DETAIL, SHT. CU-503)
WATER METER WITH METER BOX (TYP.)
WM
WV
CPB
ESB
FPB
ROW
EOP
IWW
IRRIGATION WELL AND ELECTRICAL CONTROL PANEL
CONCRETE RIBBON CURB (TYP.)
EXISTING CONCRETE RETAINING WALL (TYP.)
BFP
BACKFLOW PREVENTOR WITH HOT BOX (SEE NOTE 5)
(SEE DETAILS, SHT. CU-503)
CONCRETE RIBBON CURB (TYP.)
ADS STORM TECH CHAMBER SYSTEM (TYP.)
LANDSCAPE AREA (TYP.)
5' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)
EXISTING BRICK DRIVE (TYP.)
EXISTING 2-STORY STUCCO GARAGE
FDOT STORMDRAIN MANHOLE (TYP.)
2" PVC DOMESTIC WATER SERVICE WITH VALVES (TYP.)
(SEE DETAILS, SHT. CU-503)
CONCRETE BUMPER GUARD (TYP.)
FDOT STORMDRAIN MANHOLE (TYP.)
COASTAL CONSTRUCTION CONTROL LINE (CCCL)
LANDSCAPE AREA (TYP.)
CONCRETE SIDEWALK (TYP.)
WEST ASPHALT PARKING LOT (SEE PAVEMENT SECTION, C-300)
STORMDRAIN PIPE (TYP.)
CONCRETE SIDEWALK (TYP.)
EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT (SEE PAVEMENT SECTION, C-300)
CONCRETE RIBBON CURB (TYP.)
EXISTING 1½" PVC DOMESTIC WATER SERVICE (TYP.) (APPROX. LOCATION)
6' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)
COASTAL CONSTRUCTION CONTROL LINE (CCCL)
PROPERTY LINE (TYP.)
EXISTING CONCRETE RETAINING WALL (TYP.)
CONCRETE SIDEWALK (TYP.)
STORMDRAIN PIPE (TYP.)
10' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)
160.04± LF OF 4" PVC SANITARY SEWER LATERAL @ 2%
5' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)
FDOT GRATE INLET (TYP.)
BOLLARD (TYP.)
BIKE RACK
EXISTING 168.68± LF OF 4" PVC SANITARY SEWER LATERAL (TYP.) (APPROX. LOCATION)
PROPERTY LINE (TYP.)
EXISTING 3-STORY STUCCO RESIDENCE
FDOT GRATE INLET (TYP.)
LANDSCAPE AREA (TYP.)
BOLLARD (TYP.)
GEOGRID EMERGENCY VEHICLE BEACH ACCESS DRIVE (SEE PAVEMENT SECTION, C-300)
WOODEN STAIRS (TYP.) (SEE STRUCTURAL PLANS)
WOODEN ADA RAMP (TYP.) (SEE STRUCTURAL PLANS)
PROPERTY LINE (TYP.)
BIKE RACK
RESTROOM FACILITY
FFE: 21.50
(SEE ARCHITECTURAL PLANS)
PROPERTY LINE (TYP.)
SANITARY SEWER CLEANOUT (SEE DETAIL, SHT. CU-504)
CO
INV: 17.81
PUBLIC SHOWER WITH FOOT WASH (TYP.)(SEE DETAILS, SHT. CU-502)
EXISTING PALM TREE (TYP.)
EXISTING COVERED PAVILION (TYP.)
FFE: 22.0±
WOODEN BOARDWALK (TYP.)
(SEE STRUCTURAL PLANS)
2" PVC DOMESTIC WATER SERVICE WITH VALVES (TYP.)
EXISTING RESTROOM
SCALE: 1" = 10'
10' 5' 0' 10'
EXISTING WOOD DECK (TYP.)
WATER VALVE (TYP.)
(SEE DETAIL, SHT. CU-503)
WOODEN DUNE WALKOVER (TYP.)
(SEE STRUCTURAL PLANS)
EXISTING WOOD RAMP (TYP.)

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
14101 PANAMA CITY BEACH PARKWAY, SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-0150
FLORIDA CERTIFICATE OF AUTHORIZATION #00000670
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

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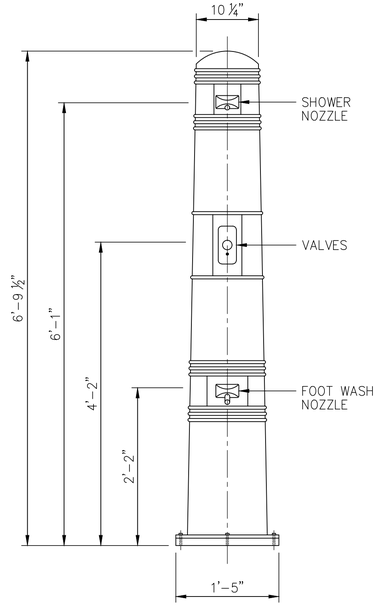
WATER AND SANITARY SEWER PLAN

CU-101

L:\121 Okaloosa County\12105.02 Shore at Crystal Beach Park Amendment\DWG\12105.02-Utility Plan.dwg, Aug 15, 2025 - 1:45:49PM, slucia

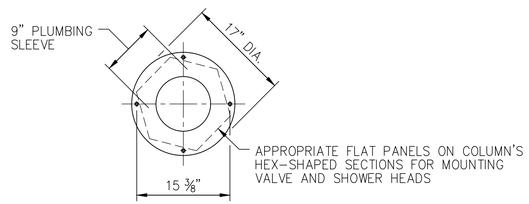
100% SUBMITTAL



SHOWER TOWER®–
OUTDOOR SHOWER DETAIL
(ELEVATION)
N.T.S.

NOTES:

1. THE BASIS OF DESIGN IS THE SHOWER TOWER–OUTDOOR SHOWER.
2. ONE PIECE CONSTRUCTION WITH HIGH–GRADE POLYMER – NON POROUS PLASTIC.
3. SPRAY HEADS AT 1.5 GPM AT 60 PSI.
4. PROVIDE WITH LEAD FREE WATER SUPPLY.
5. SURFACE MOUNT INSTALLATION. PROVIDE WITH SURFACE MOUNT CARRIER, VANDAL RESISTANT S.S. BOLTS AND WASHER TO ANCHOR, SHUT OFF WATER AND DRAIN DOWN.
6. ONE YEAR WARRANTY.
7. CONTROL VALVES EQUAL TO SYMMONS INDUSTRIES "SHOWER–OFF" VALVES WITH BRASS AND CHROME PLATED BRASS COMPONENTS WITH PUSH BUTTON OPERATION.
8. SHOWER AND FOOT WASH NOZZLES EQUAL TO BRADLEY CORP. SEVERE SERVICE, HEAVY DUTY FIXTURES.
9. SHOWER NOZZLES SET AT APPROX. 73" AND FOOT WASHES AT APPROX. 26". REFER TO DRAWINGS FOR TOWER CONFIGURATION.



SHOWER TOWER®–
OUTDOOR SHOWER DETAIL
(BOTTOM VIEW OF MOUNTING FLANGE)
N.T.S.

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MISCELLANEOUS WATER DETAILS

CU-501

100% SUBMITTAL

SECTION 1 - POTABLE WATER SYSTEM

1-1 DESCRIPTION

THE WORK SPECIFIED IN THIS SECTION CONSISTS OF THE CONSTRUCTION OF A POTABLE WATER SYSTEM, WHICH INCLUDES THE POTABLE WATER DISTRIBUTION MAINS, VALVING, FIRE HYDRANTS, AND SERVICE PIPING. THE POTABLE WATER SYSTEM SHALL BE CONSTRUCTED IN CONFORMITY WITH THE PLANS AND IN ACCORDANCE WITH THESE SPECIFICATIONS, OR THE SPECIFICATIONS AND REQUIREMENTS OF THE DESTIN WATER USERS, INC. (UTILITY COMPANY), WHICHEVER IS MORE STRINGENT.

1-2 CODES AND STANDARDS

THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION RULES AND THE APPLICABLE PORTIONS OF THE NATIONAL STANDARD PLUMBING CODE PERTAINING TO THE INSTALLATION OF POTABLE WATER SYSTEMS. ADDITIONALLY, THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE LOCAL FIRE MARSHALL AND UTILITY COMPANY REGULATIONS PERTAINING TO FIRE HYDRANTS, INCLUDING HOSE UNIT THREADING AND SIMILAR MATCHING OF CONNECTIONS. THE CONTRACTOR SHALL OBTAIN REQUIRED PERMITS AND INSPECTIONS AND SHALL COORDINATE TAPPING OF EXISTING WATER MAINS WITH THE UTILITY COMPANY.

1-3 MATERIALS

1-3.1 DETECTOR WIRE

NO. 12 COPPER TRACER WIRE SHALL BE REQUIRED FOR ALL NON-METALLIC WATER MAINS. TRACER WIRE SHALL BE WELL CONNECTED TO FIRE HYDRANTS AND SHALL BE PROTECTED DURING BACKFILLING OPERATIONS TO PREVENT BREAKAGE.

1-3.2 PIPING AND PIPE FITTINGS

1-3.2.1 WATER MAINS

WATER MAIN PIPING SHALL BE POLYVINYL CHLORIDE (PVC) PIPE. WATER MAIN PIPING 1-1/2" THROUGH 3" IN SIZE SHALL CONFORM TO ASTM D 2241, SDR 26 (PVC MATERIAL 12454-B) WITH PUSH-ON JOINTS CONFORMING TO ASTM D 3139 AND ELASTOMERIC GASKETS CONFORMING TO ASTM F 477. WATER MAIN PIPING 4" THROUGH 12" IN SIZE SHALL CONFORM TO AWWA C 900-89, DR 18, AND SHALL BE FURNISHED IN CAST-IRON PIPE EQUIVALENT OUTSIDE DIAMETERS WITH RUBBER GASKETED JOINTS AS AWWA C 900 LISTED. ALL WATER MAIN PIPING SHALL BE STAMPED "NSF-PW". ALL WATER MAIN FITTINGS SHALL BE CONSTRUCTED OF EITHER DUCTILE IRON OR CAST IRON CONFORMING TO AWWA C 110 OR ANSI A 21.10, RESPECTIVELY, BLUE IN COLOR.

SUITABLE CONCRETE REACTION OR THRUST BLOCKS (OR APPROVED EQUAL (MEGA LUGS, BELL RESTRAINTS, ETC.) SHALL BE APPLIED ON ALL TEES, PLUGS, CAPS, AND BENDS DEFLECTING 22-1/2 DEGREES OR MORE, OR MOVEMENT SHALL BE PREVENTED BY ATTACHING METAL RODS OR STRAPS APPROVED BY THE ENGINEER. UNLESS OTHERWISE DIRECTED, THE PIPE SHALL BE LAID WITH BELL ENDS FACING IN THE DIRECTION OF LAYING. WHENEVER IT IS NECESSARY TO DEFLECT THE PIPE FROM A STRAIGHT LINE (EITHER IN THE VERTICAL OR HORIZONTAL PLANE) TO AVOID OBSTRUCTION, TO PLUMB STEMS, OR WHERE LONG RADIUS CURVES ARE PERMITTED, THE DEGREE OF DEFLECTION SHALL BE AS RECOMMENDED BY THE MANUFACTURER OF THE PIPE.

1-3.2.2 WATER SERVICE PIPING

ALL WATER SERVICE PIPING SHALL BE POLYETHYLENE (PEMUNICIPEX AND MANUFACTURED BY REHAU OR APPROVED EQUAL. BLUE IN COLOR.

1-3.3 VALVES

1-3.3.1 GATE VALVES

GATE VALVES SHALL BE OF CAST IRON BODY, RESILIENT SEAT DESIGN. GATE VALVES SHALL HAVE A MINIMUM WORKING PRESSURE OF 175 PSI, AND SHALL COMPLY WITH AWWA C 500. GATE VALVES SHALL OPEN BY COUNTERCLOCKWISE ROTATION OF THE VALVE STEM AND SHALL BE FITTED WITH HUB-TYPE HAND OPERATORS. GATE VALVES SHALL BE SIZED AND LOCATED AS INDICATED ON THE PLANS. ALL GATE VALVES 4" AND LARGER SHALL BE AMERICAN FLOW CONTROL SERIES 2500 MECHANICAL JOINT DUCTILE IRON OPEN LEFT RESILIENT WEDGE WITH 2"X2" OPERATING NUT OR APPROVED EQUAL.

1-3.3.2. ARV

SEE DETAILS

1-3.3.3. TAP VALVES

ALL TAP VALVES 4" AND LARGER SHALL BE AMERICAN FLOW CONTROL SERIES 2500 FLANGED X MECHANICAL JOINT DUCTILE IRON FLANGED WATERWORKS TAPPING VALVE, BLUE IN COLOR.

1-3.3.4 WATER SERVICE CLAMPS AND STOPS

1-3.3.4.1 TAPPING SLEEVE

ALL TAPS OF 4" OR GREATER SHALL BE STAINLESS STELE TAP-ON PIPE SLEEVE (FAST) MANUFACTURED BY FORD METER BOX.CO.

1-3.3.4.2 TAPPING SADDLE

ALL TAPPING SADDLES SHALL BE STAINLESS STEEL IRON PIPE THREADED TAP-ON PIPE (FS 313) AND MANUFACTURED BY FORD METERING, CO.

1-3.3.4.3 CORPORATION STOPS

CORPORATION STOPS SHALL BE FORD MODEL NO. F-1000, OR APPROVED EQUAL. INLETS SHALL HAVE IRON PIPE THREADS AND OUTLETS SHALL HAVE COMPRESSION CONNECTIONS. 2" CORP STOPS SHALL HAVE IRON PIPE INLETS AND OUTLETS SHALL BE DECIDED BY MATERIAL ON PRINTS. ON 2" BALL VALVES NO PVC SCHEDULE 40 MALE OR FEMALE ADAPTERS SHALL BE USED. CONNECTION TO THREADED BALL VALVES SHALL BE BRASS TRANSITIONS TO FPVC.

1-3.3.4.4 CURB STOPS

1" AND ¾" CURB STOPS SHALL BE FORD METER BOX GRIP JOINT X METER SWIVEL NUT BRASS STRAIGHT BALL METER VALVE. 2" CURB STOPS SHALL BE FORD METER BOX WITH LOCK WING CONTROL VALVE AND INLETS AND OUTLETS WILL BE DETERMINED BY MATERIALS ON PLANS. NO PVC SCHEDULE 40 MALE OR FEMALE ADAPTERS SHALL BE USED. CONNECTIONS TO THREADED BALL VALVES SHALL BE BRASS TRANSITIONS TO PVC.

1-3.3.5 VALVE BOXES

AN ADJUSTABLE CAST-IRON VALVE BOX OF SUITABLE SIZE SHALL BE PROVIDED AT EACH GATE VALVE. THE HEAD SHALL BE ROUND AND THE LID SHALL HAVE THE WORD "WATER" CAST ON IT. THE LEAST DIMENSION OF THE SHAFT OF THE BOX SHALL BE 5-1/4". A 2'-0" DIAMETER BY 6" CONCRETE COLLAR SHALL BE POURED AROUND THE SHAFT AT THE VALVE BOX SURFACE. THE VALVE BOXES SHALL BE CLOW F-2452, OR APPROVED EQUAL.

1-3.4 FIRE HYDRANTS

FIRE HYDRANTS SHALL BE DRY-BARREL TYPE CONFORMING TO AWWA C 502. HYDRANTS SHALL HAVE 6" OUTLET, ONE 5-1/4" PUMPER CONNECTION, AND TWO 2-1/2" HOSE CONNECTIONS. THE SIZE AND SHAPE OF OPERATING NUTS AND THREADS ON HOSE AND PUMPER CONNECTIONS SHALL BE AS REQUIRED BY THE UTILITY COMPANY. THE HYDRANTS SHALL BE AMERICA DARLING, (MODEL B84B-5) WITH TAMPER PROOF BONNET.

1-3.5 ANCHORAGES

THE CONTRACTOR SHALL PROVIDE ANCHORAGES FOR TEES, WYES, CROSSES, PLUGS, CAPS, BENDS, VALVES, AND HYDRANTS AS REQUIRED. AFTER INSTALLATION. ANCHORAGE TYPES ARE AS FOLLOWS:

(1) CLAMPS, STRAPS, AND WASHERS: STEEL, ASTM A 506.
(2) RODS: STEEL, ASTM A 575.
(3) ROD COUPLINGS: MALLEABLE-IRON, ASTM A 197.
(4) BOLTS: STEEL, ASTM A 307.
(5) THRUST BLOCKS: CONCRETE, 2500 PSI, SIZED AS INDICATED OR APPROVED EQUAL.

1-3.6 WATER METERS

WATER METERS FOR BILLING ARE TO BE PROCURED FROM DESTIN WATER USERS, INC.

1-4 INSTALLATION

1-4.1 PIPE LAYING AND JOINTING

PIPE, FITTINGS, VALVES AND ACCESSORIES SHALL BE CAREFULLY INSPECTED BEFORE AND AFTER INSTALLATION AND THOSE FOUND DEFECTIVE SHALL BE REJECTED AND REPLACED. BEFORE PLACING IN POSITION, CONTRACTOR TO CLEAN PIPE, FITTINGS, VALVES AND ACCESSORIES AND MAINTAIN IN CLEAN CONDITION.

CUT PIPE ACCURATELY TO MEASUREMENTS ESTABLISHED AT THE SITE AND WORK INTO PLACE WITHOUT SPRINGING OR FORCING. SUPPORT PIPE AT ITS PROPER ELEVATION AND GRADE, TAKING CARE TO SECURE FIRM AND UNIFORM SUPPORT. LAY PIPE SO THAT THE FULL LENGTH OF EACH SECTION OF PIPE AND EACH FITTING WILL REST SOLIDLY ON THE PIPE BEDDING; EXCAVATE RECESSES TO ACCOMMODATE BELLS, JOINTS, AND COUPLINGS. PROVIDE ANCHORS AND SUPPORTS WHERE NECESSARY FOR FASTENING WORK INTO PLACE. CONCRETE REACTION, THRUST BLOCKS OR RESTRAINED JOINTS SHALL BE APPLIED FOR ALL TEES, PLUGS, CAPS AND BENDS DEFLECTING 22-1/2 DEGREES OR MORE. KEEP TRENCHES FREE OF WATER UNTIL JOINTS HAVE BEEN PROPERLY MADE. AT THE END OF EACH DAY'S WORK, CLOSE OPEN ENDS OF PIPE TEMPORARILY WITH WOOD BLOCKS OR BULKHEADS. DO NOT LAY PIPE WHEN CONDITIONS OF TRENCH OR WEATHER ARE UNSUITABLE. IN ADDITION TO THE ABOVE, PVC PIPE AND FITTINGS INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF UNI B-3.

WATER MAINS SHALL BE LAID AT LEAST 10' HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A TEN FOOT SEPARATION, AND WHEN APPROVED BY D.E.P., DWU, AND THE ENGINEER, THE WATER MAIN MAY BE INSTALLED CLOSER TO THE SEWER, PROVIDED THAT THE WATER MAIN IS LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18" ABOVE THE TOP OF THE SEWER.
BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10' BETWEEN JOINTS. ALTERNATIVELY, THE SEWER MAIN BE PLACED IN A SLEEVE OR ENCASED IN CONCRETE TO OBTAIN THE EQUIVALENT OF THE REQUIRED 10' SEPARATION.

EXCAVATION AND BACKFILLING OF WATER MAIN TRENCHES SHALL CONFORM TO SECTION 2 OF THESE SPECIFICATIONS. PROVIDE A MINIMUM OF 36" OF COVER OVER WATER MAINS.

1-4.2 HOT TAPPING

TAP SLEEVE SHOULD BE MOUNTED ON CLEAN PIPE WITH TEST HOLE AT THE TOP AND NOT BE ANY CLOSER THAN 1 FOOT FROM ANY JOINT OR FITTING. AFTER SLEEVE IS MOUNTED THEN VALVE CAN BE PLACED ON FACE OF SLEEVE. FACE OF VALVE SHOULD BE LEVEL TO FACILITATE THE TAPPING TOOL FITTING CORRECTLY. TESTING OF SLEEVE AND TAPPING OF PIPE IS TO BE COORDINATED WITH UTILITY 24-48 HOURS IN ADVANCE OF PLACEMENT.

1-4.3 GATE VALVES

INSTALL GATE VALVES IN ACCORDANCE WITH THE REQUIREMENTS OF AWWA C 600 FOR VALVE-AND-FITTING INSTALLATION. VALVE BOXES SHALL BE PLACED CONCENTRICALLY OVER THE VALVE OPERATING NUT.

1-4.4 FIRE HYDRANTS

INSTALL FIRE HYDRANTS IN ACCORDANCE WITH THE REQUIREMENTS OF AWWA C 600 AND AWWA M 17, "INSTALLATION, OPERATION, AND MAINTENANCE OF FIRE HYDRANTS".

1-4.5 CONNECTION TO EXISTING WATER SYSTEM

COORDINATE AND MAKE CONNECTIONS TO THE EXISTING WATER SYSTEM IN A MANNER APPROVED BY THE UTILITY COMPANY, AND WITH A MINIMUM INTERRUPTION OF SERVICE ON THE EXISTING SYSTEM.

1-5 FIELD TESTING

1-5.1 GENERAL

CONDUCT PIPING TESTS BEFORE JOINTS ARE COVERED, AND AFTER THRUST BLOCKS HAVE SUFFICIENTLY HARDENED. FILL PIPELINE WITH WATER 24 HOURS PRIOR TO TESTING, AND APPLY TEST PRESSURE TO STABILIZED SYSTEM.

1-5.2 HYDROSTATIC TESTS

1-5.2.1 PRESSURE DURING TEST

AFTER THE PIPE HAS BEEN LAID AND BACKFILLED AS SPECIFIED, EACH VALVED SECTION OF NEWLY LAID PIPE SHALL, UNLESS OTHERWISE SPECIFIED, BE SUBJECTED TO A HYDROSTATIC PRESSURE EQUAL TO 150 PSI. THE CONTRACTOR SHALL RECORD THE TESTING BY THE USE OF A PRESSURE RECORDING GAUGE, AND AFTER ALL TESTING IS COMPLETE, THE RECORDING SHALL BE TURNED OVER TO THE ENGINEER FOR HIS FILES.

1-5.2.2 DURATION OF PRESSURE TEST

THE DURATION OF EACH PRESSURE TEST SHALL BE AT LEAST 2 HOURS.

1-5.2.3 PROCEDURE

EACH SECTION OF PIPE SHALL BE SLOWLY FILLED WITH WATER AND THE SPECIFIED TEST PRESSURE, MEASURED AT THE LOWEST POINT OF THE ELEVATION, SHALL BE APPLIED BY MEANS OF A PUMP CONNECTED TO THE PIPE IN A SATISFACTORY MANNER. THE PUMP, PIPE CONNECTION, GAUGES METER, AND ALL NECESSARY APPARATUS SHALL BE FURNISHED BY THE CONTRACTOR. THE TEST SHALL BE APPLIED TO EACH VALVED SECTION IN ORDER TO CHECK THE LEAKAGE THROUGH ALL VALVES.

1-5.2.4 EXPELLING AIR BEFORE TEST

BEFORE APPLYING THE SPECIFIED TEST PRESSURE, ALL AIR SHALL BE EXPELLED FROM THE PIPE. TO ACCOMPLISH THIS, TAPS SHALL BE MADE, IF NECESSARY, AT POINTS OF HIGHEST ELEVATION AND AFTERWARDS TIGHTLY PLUGGED.

1-5.2.5 DEFINITION OF LEAKAGE

LEAKAGE IS DEFINED AS THE QUANTITY OF WATER TO BE SUPPLIED INTO THE NEWLY LAID PIPE, OR ANY VALVED SECTION OF IT, NECESSARY TO MAINTAIN THE SPECIFIED LEAKAGE TEST PRESSURE AFTER THE PIPE HAS BEEN FILLED WITH WATER AND THE AIR EXPELLED.

1-5.2.6 PERMISSIBLE LEAKAGE

SUITABLE MEANS SHALL BE PROVIDED BY THE CONTRACTOR FOR DETERMINING THE QUANTITY OF WATER LOST BY LEAKAGE UNDER NORMAL OPERATING PRESSURE. NO PIPE INSTALLATION WILL BE ACCEPTED UNTIL OR UNLESS THIS LEAKAGE (EVALUATED AT 150 PSI) IS LESS THAN THE FIGURE STATED BELOW:

	GAL'S/1000'/24 HRS.	GAL'S/1000'/1 HR.
2"	3.8 GAL.	0.16 GAL.
3"	5.7 GAL.	0.24 GAL.
4"	7.6 GAL.	0.32 GAL.
6"	11.4 GAL.	0.47 GAL.
8"	15.2 GAL.	0.63 GAL.
10"	18.9 GAL.	0.79 GAL.
12"	22.7 GAL.	0.95 GAL.

1-5.2.7 VARIATION FROM PERMISSIBLE LEAKAGE

SHOULD ANY TEST OF COMBINED SECTIONS OF PIPE LAID DISCLOSE LEAKAGE GREATER THAN THE SPECIFIED LIMIT, THE CONTRACTOR SHALL, AT HIS EXPENSE, LOCATE AND REPAIR THE DEFECTIVE JOINTS UNTIL THE LEAKAGE IS WITHIN THE SPECIFIED ALLOWANCE.

1-5.2.8 WATER FOR TESTING

WATER FOR TESTING SHALL BE PROVIDED BY THE CONTRACTOR AT HIS EXPENSE.

1-5.2.9 TIME FOR MAKING TEST

PIPE MAY BE SUBJECTED TO HYDROSTATIC PRESSURE, INSPECTED, AND TESTED FOR LEAKAGE AT ANY CONVENIENT TIME AFTER PARTIAL COMPLETION OF BACKFILL. THE CONTRACTOR MAY TEST THE SYSTEM WITH JOINTS EXPOSED OR WITH BACKFILLING COMPLETE AT HIS OPTION. THE ENGINEER AND THE UTILITY COMPANY SHALL BE NOTIFIED AT LEAST 24 HOURS BEFORE SCHEDULING TESTING WITH A UTILITY COMPANY REPRESENTATIVE PRESENT.

1-5.3 OPERATING TESTS

OPEN AND CLOSE ALL VALVES AND HYDRANTS UNDER SYSTEM WATER PRESSURE. CHECK DRY BARREL HYDRANTS FOR PROPER DRAINAGE.

1-6 DISINFECTION

FLUSH AND DISINFECT THE NEW POTABLE WATER SYSTEM IN ACCORDANCE WITH AWWA C 601 TO THE SATISFACTION OF THE ENGINEER AND THE UTILITY COMPANY. IN THE PROCESS OF CHLORINATING WATER, ALL VALVES OR OTHER APPURTENANCES SHALL BE OPERATED WHILE THE PIPE LINE IS FILLED WITH THE CHLORINATING AGENT.

1-7 FINAL FLUSHING AND TESTING

FOLLOWING DISINFECTION, ALL TREATED WATER SHALL BE THOROUGHLY FLUSHED FROM THE NEWLY LAID PIPE SYSTEM AT ITS EXTREMITIES UNTIL THE REPLACEMENT WATER THROUGHOUT ITS LENGTH SHALL UPON TEST, BOTH CHEMICALLY AND BACTERIOLOGICALLY, BE APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING AND PAYING FOR THE TEST SAMPLES.

1-8 AS-BUILT CERTIFICATION

IN ACCORDANCE WITH THE RULES OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, CHAPTER 62-555, THE ENGINEER OF RECORD WILL BE RESPONSIBLE FOR OBSERVATION OF THE CONSTRUCTION OF THE POTABLE WATER SYSTEM TO ASSURE COMPLIANCE WITH PLANS AND SPECIFICATIONS, AND SAID ENGINEER WILL REPORT TO DEP UPON COMPLETION OF THE CONSTRUCTION AND CLEANING AND DISINFECTING DESCRIBED ABOVE BEFORE THE SYSTEM CAN BE PLACED INTO SERVICE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 24 HOURS BEFORE BEGINNING CONSTRUCTION ON THE POTABLE WATER SYSTEM.

1-9 AS-BUILT DRAWINGS

THE CONTRACTOR SHALL FURNISH THE ENGINEER AT THE CLOSE OF THE PROJECT, WITH ONE (1) SET OF MARKED-UP CONSTRUCTION PLANS DEPICTING AS-BUILT CONDITIONS OF THE POTABLE WATER SYSTEM. THE AS-BUILT PLANS SHALL SHOW THE LOCATION OF WATER SERVICES, WATER VALVES, AND FIRE HYDRANTS. ENGINEERING APPROVAL OF THE POTABLE WATER SYSTEM WILL NOT BE MADE UNTIL ACCURATE AND LEGIBLE AS-BUILT PLANS ARE RECEIVED.

END OF SECTION

SECTION 2 - RECLAIMED WATER DISTRIBUTION SYSTEM (A.K.A. REUSE WATER)

2-1 DESCRIPTION

THE WORK SPECIFIED IN THIS SECTION CONSISTS OF THE CONSTRUCTION OF RECLAIMED WATER SERVICES AND OTHER APPURTENANCES, IN CONFORMITY WITH THE PLANS AND IN ACCORDANCE WITH THESE SPECIFICATIONS, OR THE GENERAL UTILITY SPECIFICATIONS OF DESTIN WATER USERS, INC. (UTILITY COMPANY), WHICHEVER IS MORE STRINGENT.

2-2 CODES AND STANDARDS

THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-604 AND 62-610 OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION RULES, THE APPLICABLE PORTIONS OF THE NATIONAL STANDARD PLUMBING CODE AND TEN STATE STANDARDS PERTAINING TO THE INSTALLATION OF RECLAIMED WATER SYSTEMS, AND THE UTILITY ACCOMMODATION MANUAL OF THE FLORIDA DEPARTMENT OF TRANSPORTATION, LATEST EDITION. THE CONTRACTOR SHALL OBTAIN REQUIRED PERMITS AND INSPECTIONS FROM THE UTILITY COMPANY.

2-3 MATERIALS

2-3.1 DETECTOR WIRE

NO. 12 COPPER TRACER WIRE SHALL BE REQUIRED FOR ALL NON-METALLIC SERVICES AND SHALL BE PROTECTED DURING BACKFILLING OPERATIONS TO PREVENT BREAKAGE.

2-3.2 GATE VALVES

GATE VALVES SHALL BE OF CAST IRON BODY, RESILIENT SEAT DESIGN. GATE VALVES SHALL HAVE A MINIMUM WORKING PRESSURE OF 175 PSI, AND SHALL COMPLY WITH AWWA C 500. GATE VALVES SHALL OPEN BY COUNTERCLOCKWISE ROTATION OF THE VALVE STEM AND SHALL BE FITTED WITH HUB-TYPE HAND OPERATORS. GATE VALVES SHALL BE SIZED AND LOCATED AS INDICATED ON THE PLANS. ALL GATE VALVES 4" AND LARGER SHALL BE AMERICAN FLOW CONTROL SERIES 2500 MECHANICAL JOINT DUCTILE IRON OPEN LEFT RESILIENT WEDGE WITH 2"X2" OPERATING NUT OR APPROVED EQUAL.

2-3.3 ARV

SEE DETAILS

2-3.4 PIPING AND PIPE FITTINGS

PIPE, FITTINGS, VALVES AND ACCESSORIES SHALL BE CAREFULLY INSPECTED BEFORE AND AFTER INSTALLATION AND THOSE FOUND DEFECTIVE SHALL BE REJECTED AND REPLACED. BEFORE PLACING IN POSITION, CONTRACTOR TO CLEAN PIPE, FITTINGS, VALVES AND ACCESSORIES AND MAINTAIN IN CLEAN CONDITION.

2-3.4.1 RECLAIMED WATER MAINS

WATER MAIN PIPING SHALL BE POLYVINYL CHLORIDE (PVC) PIPE. WATER MAIN PIPING 1-1/2" THROUGH 3" IN SIZE SHALL CONFORM TO ASTM D 2241, SDR 26 (PVC MATERIAL 12454-B) WITH PUSH-ON JOINTS CONFORMING TO ASTM D 3139 AND ELASTOMERIC GASKETS CONFORMING TO ASTM F 477. WATER MAIN PIPING 4" THROUGH 12" IN SIZE SHALL CONFORM TO AWWA C 900-89, DR 18, AND SHALL BE FURNISHED IN CAST-IRON PIPE EQUIVALENT OUTSIDE DIAMETERS WITH RUBBER GASKETED JOINTS AS AWWA C 900 LISTED. ALL WATER MAIN PIPING SHALL BE STAMPED "NSF-PW". ALL WATER MAIN FITTINGS SHALL BE CONSTRUCTED OF EITHER DUCTILE IRON OR CAST IRON CONFORMING TO AWWA C 110 OR ANSI A 21.10, RESPECTIVELY, PURPLE IN COLOR.

SUITABLE CONCRETE REACTION OR THRUST BLOCKS (OR APPROVED EQUAL (MEGA LUGS, BELL RESTRAINTS, ETC.) SHALL BE APPLIED ON ALL TEES, PLUGS, CAPS, AND BENDS DEFLECTING 22-1/2 DEGREES OR MORE, OR MOVEMENT SHALL BE PREVENTED BY ATTACHING METAL RODS OR STRAPS APPROVED BY THE ENGINEER. UNLESS OTHERWISE DIRECTED, THE PIPE SHALL BE LAID WITH BELL ENDS FACING IN THE DIRECTION OF LAYING. WHENEVER IT IS NECESSARY TO DEFLECT THE PIPE FROM A STRAIGHT LINE (EITHER IN THE VERTICAL OR HORIZONTAL PLANE) TO AVOID OBSTRUCTION, TO PLUMB STEMS, OR WHERE LONG RADIUS CURVES ARE PERMITTED, THE DEGREE OF DEFLECTION SHALL BE AS RECOMMENDED BY THE MANUFACTURER OF THE PIPE.

2-3.4.2 RECLAIMED WATER SERVICE PIPING

ALL WATER SERVICE PIPING SHALL BE POLYETHYLENE (PEMUNICIPEX AND MANUFACTURED BY REHAU OR APPROVED EQUAL. PURPLE IN COLOR.

2-3.4.3 RECLAIMED WATER SERVICE CLAMPS AND STOPS

2-3.4.3.1 TAPPING SADDLE

ALL TAPPING SADDLES SHALL BE STAINLESS STEEL IRON PIPE THREADED TAP-ON PIPE (FS 313) AND MANUFACTURED BY FORD METERING, CO.

2-3.4.3.2 CORPORATION STOPS

CORPORATION STOPS SHALL BE FORD MODEL NO. F-1000, OR APPROVED EQUAL. INLETS SHALL HAVE IRON PIPE THREADS AND OUTLETS SHALL HAVE COMPRESSION CONNECTIONS. 2" CORP STOPS SHALL HAVE IRON PIPE INLETS AND OUTLETS SHALL BE DECIDED BY MATERIAL ON PRINTS. ON 2" BALL VALVES NO PVC SCHEDULE 40 MALE OR FEMALE ADAPTERS SHALL BE USED. CONNECTION TO THREADED BALL VALVES SHALL BE BRASS TRANSITIONS TO FPVC.

2-3.4.3.3 CURB STOPS

1" AND 3/4" CURB STOPS SHALL BE FORD METER BOX GRIP JOINT X METER SWIVEL NUT BRASS STRAIGHT BALL METER VALVE. 2" CURB STOPS SHALL BE FORD METER BOX WITH LOCK WING CONTROL VALVE AND INLETS AND OUTLETS WILL BE DETERMINED BY MATERIALS ON PLANS. NO PVC SCHEDULE 40 MALE OR FEMALE ADAPTERS SHALL BE USED. CONNECTIONS TO THREADED BALL VALVES SHALL BE BRASS TRANSITIONS TO PVC.

2-3.4.4 VALVE BOXES - SEE BASKERVILLE-DONOVAN PLANS AND SPECIFICATIONS

AN ADJUSTABLE CAST-IRON VALVE BOX OF SUITABLE SIZE SHALL BE PROVIDED AT EACH GATE VALVE. THE HEAD SHALL BE ROUND AND THE LID SHALL HAVE THE WORD "RECLAIM" CAST ON IT. THE LEAST DIMENSION OF THE SHAFT OF THE BOX SHALL BE 5-1/4". A 2'-0" DIAMETER BY 6" CONCRETE COLLAR SHALL BE POURED AROUND THE SHAFT AT THE VALVE BOX SURFACE. THE VALVE BOXES SHALL BE CLOW F-2452, OR APPROVED EQUAL.

2-3.5 ANCHORAGES - SEE BASKERVILLE-DONOVAN PLANS AND SPECIFICATIONS

THE CONTRACTOR SHALL PROVIDE ANCHORAGES FOR TEES, WYES, CROSSES, PLUGS, CAPS, BENDS, VALVES, AND HYDRANTS AS REQUIRED. AFTER INSTALLATION. ANCHORAGE TYPES ARE AS FOLLOWS:

(1) CLAMPS, STRAPS, AND WASHERS: STEEL, ASTM A 506.
(2) RODS: STEEL, ASTM A 575.
(3) ROD COUPLINGS: MALLEABLE-IRON, ASTM A 197.
(4) BOLTS: STEEL, ASTM A 307.
(5) THRUST BLOCKS: CONCRETE, 2500 PSI, SIZED AS INDICATED OR APPROVED EQUAL.

2-5 INSTALLATION

2-5.1 PIPE LAYING AND JOINTING

PIPE, FITTINGS, VALVES AND ACCESSORIES SHALL BE CAREFULLY INSPECTED BEFORE AND AFTER INSTALLATION AND THOSE FOUND DEFECTIVE SHALL BE REJECTED AND REPLACED. BEFORE PLACING IN POSITION, CONTRACTOR TO CLEAN PIPE, FITTINGS, VALVES AND ACCESSORIES AND MAINTAIN IN CLEAN CONDITION.

CUT PIPE ACCURATELY TO MEASUREMENTS ESTABLISHED AT THE SITE AND WORK INTO PLACE WITHOUT SPRINGING OR FORCING. SUPPORT PIPE AT ITS PROPER ELEVATION AND GRADE, TAKING CARE TO SECURE FIRM AND UNIFORM SUPPORT. LAY PIPE SO THAT THE FULL LENGTH OF EACH SECTION OF PIPE AND EACH FITTING WILL REST SOLIDLY ON THE PIPE BEDDING; EXCAVATE RECESSES TO ACCOMMODATE BELLS, JOINTS, AND COUPLINGS. PROVIDE ANCHORS AND SUPPORTS WHERE NECESSARY FOR FASTENING WORK INTO PLACE. CONCRETE REACTION, THRUST BLOCKS OR RESTRAINED JOINTS SHALL BE APPLIED FOR ALL TEES, PLUGS, CAPS AND BENDS DEFLECTING 22-1/2 DEGREES OR MORE. KEEP TRENCHES FREE OF WATER UNTIL JOINTS HAVE BEEN PROPERLY MADE. AT THE END OF EACH DAY'S WORK, CLOSE OPEN ENDS OF PIPE TEMPORARILY WITH WOOD BLOCKS OR BULKHEADS. DO NOT LAY PIPE WHEN CONDITIONS OF TRENCH OR WEATHER ARE UNSUITABLE. IN ADDITION TO THE ABOVE, PVC PIPE AND FITTINGS INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF UNI B-3.

WATER MAINS SHALL BE LAID AT LEAST 10' HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A TEN FOOT SEPARATION, AND WHEN APPROVED BY D.E.P., DWU, AND THE ENGINEER, THE WATER MAIN MAY BE INSTALLED CLOSER TO THE SEWER, PROVIDED THAT THE WATER MAIN IS LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18" ABOVE THE TOP OF THE SEWER.
BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10' BETWEEN JOINTS. ALTERNATIVELY, THE SEWER MAIN BE PLACED IN A SLEEVE OR ENCASED IN CONCRETE TO OBTAIN THE EQUIVALENT OF THE REQUIRED 10' SEPARATION.

EXCAVATION AND BACKFILLING OF WATER MAIN TRENCHES SHALL CONFORM TO SECTION 2 OF THESE SPECIFICATIONS. PROVIDE A MINIMUM OF 36" OF COVER OVER WATER MAINS.

2-5.2 HOT TAPPING

TAP SLEEVE SHOULD BE MOUNTED ON CLEAN PIPE WITH TEST HOLE AT THE TOP AND NOT BE ANY CLOSER THAN 1 FOOT FROM ANY JOINT OR FITTING. AFTER SLEEVE IS MOUNTED THEN VALVE CAN BE PLACED ON FACE OF SLEEVE. FACE OF VALVE SHOULD BE LEVEL TO FACILITATE THE TAPPING TOOL FITTING CORRECTLY. TESTING OF SLEEVE AND TAPPING OF PIPE IS TO BE COORDINATED WITH UTILITY 24-48 HOURS IN ADVANCE OF PLACEMENT.

2-5.3 GATE VALVES

INSTALL GATE VALVES IN ACCORDANCE WITH THE REQUIREMENTS OF AWWA C 600 FOR VALVE-AND-FITTING INSTALLATION. VALVE BOXES SHALL BE PLACED CONCENTRICALLY OVER THE VALVE OPERATING NUT.

2-5.4 FIRE HYDRANTS

INSTALL FIRE HYDRANTS IN ACCORDANCE WITH THE REQUIREMENTS OF AWWA C 600 AND AWWA M 17, "INSTALLATION, OPERATION, AND MAINTENANCE OF FIRE HYDRANTS".

DESTIN WATER USERS, INC.
14 INDUSTRIAL PARK LANE,
DESTIN, FL 32541
(850) 837-6146

NOTES:

DATE:	July 11, 2023
REVISION DATE:	 2023
DRAWN BY:	ER
REVIEWED BY:	MASS
SHEET:	X OF X

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DWU TYPICAL SPECIFICATIONS 1

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
14101 PANAMA CITY BEACH PARKWAY, SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-0150
3350 SCENIC HIGHWAY 98, SUITE 203,
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN

2-5.5 CONNECTION TO EXISTING WATER SYSTEM

COORDINATE AND MAKE CONNECTIONS TO THE EXISTING WATER SYSTEM IN A MANNER APPROVED BY THE UTILITY COMPANY, AND WITH A MINIMUM INTERRUPTION OF SERVICE ON THE EXISTING SYSTEM.

2-6 FIELD TESTING

2-6.1 GENERAL

CONDUCT PIPING TESTS BEFORE JOINTS ARE COVERED, AND AFTER THRUST BLOCKS HAVE SUFFICIENTLY HARDENED. FILL PIPELINE WITH WATER 24 HOURS PRIOR TO TESTING, AND APPLY TEST PRESSURE TO STABILIZED SYSTEM.

2-6.2 HYDROSTATIC TESTS

2-6.2.1 PRESSURE DURING TEST

AFTER THE PIPE HAS BEEN LAID AND BACKFILLED AS SPECIFIED, EACH VALVED SECTION OF NEWLY LAID PIPE SHALL, UNLESS OTHERWISE SPECIFIED, BE SUBJECTED TO A HYDROSTATIC PRESSURE EQUAL TO 150 PSI. THE CONTRACTOR SHALL RECORD THE TESTING BY THE USE OF A PRESSURE RECORDING GAUGE, AND AFTER ALL TESTING IS COMPLETE, THE RECORDING SHALL BE TURNED OVER TO THE ENGINEER FOR HIS FILES.

2-6.2.2 DURATION OF PRESSURE TEST

THE DURATION OF EACH PRESSURE TEST SHALL BE AT LEAST 2 HOURS.

2-6.2.3 PROCEDURE

EACH SECTION OF PIPE SHALL BE SLOWLY FILLED WITH WATER AND THE SPECIFIED TEST PRESSURE, MEASURED AT THE LOWEST POINT OF THE ELEVATION, SHALL BE APPLIED BY MEANS OF A PUMP CONNECTED TO THE PIPE IN A SATISFACTORY MANNER. THE PUMP, PIPE CONNECTION, GAUGES METER, AND ALL NECESSARY APPARATUS SHALL BE FURNISHED BY THE CONTRACTOR. THE TEST SHALL BE APPLIED TO EACH VALVED SECTION IN ORDER TO CHECK THE LEAKAGE THROUGH ALL VALVES.

2-6.2.4 EXPELLING AIR BEFORE TEST

BEFORE APPLYING THE SPECIFIED TEST PRESSURE, ALL AIR SHALL BE EXPELLED FROM THE PIPE. TO ACCOMPLISH THIS, TAPS SHALL BE MADE, IF NECESSARY, AT POINTS OF HIGHEST ELEVATION AND AFTERWARDS TIGHTLY PLUGGED.

2-6.2.5 DEFINITION OF LEAKAGE

LEAKAGE IS DEFINED AS THE QUANTITY OF WATER TO BE SUPPLIED INTO THE NEWLY LAID PIPE, OR ANY VALVED SECTION OF IT, NECESSARY TO MAINTAIN THE SPECIFIED LEAKAGE TEST PRESSURE AFTER THE PIPE HAS BEEN FILLED WITH WATER AND THE AIR EXPELLED.

2-6.2.6 PERMISSIBLE LEAKAGE

SUITABLE MEANS SHALL BE PROVIDED BY THE CONTRACTOR FOR DETERMINING THE QUANTITY OF WATER LOST BY LEAKAGE UNDER NORMAL OPERATING PRESSURE. NO PIPE INSTALLATION WILL BE ACCEPTED UNTIL OR UNLESS THIS LEAKAGE (EVALUATED AT 150 PSI) IS LESS THAN THE FIGURE STATED BELOW.

	GAL'S/1000'/24 HRS.	GAL'S/1000'/1 HR.
2"	3.8 GAL.	0.16 GAL.
3"	5.7 GAL.	0.24 GAL.
4"	7.6 GAL.	0.32 GAL.
6"	11.4 GAL.	0.47 GAL.
8"	15.2 GAL.	0.63 GAL.
10"	18.9 GAL.	0.79 GAL.
12"	22.7 GAL.	0.95 GAL.

2-6.2.7 VARIATION FROM PERMISSIBLE LEAKAGE

SHOULD ANY TEST OF COMBINED SECTIONS OF PIPE LAID DISCLOSE LEAKAGE GREATER THAN THE SPECIFIED LIMIT, THE CONTRACTOR SHALL, AT HIS EXPENSE, LOCATE AND REPAIR THE DEFECTIVE JOINTS UNTIL THE LEAKAGE IS WITHIN THE SPECIFIED ALLOWANCE.

2-6.2.8 WATER FOR TESTING

WATER FOR TESTING SHALL BE PROVIDED BY THE CONTRACTOR AT HIS EXPENSE.

2-6.2.9 TIME FOR MAKING TEST

PIPE MAY BE SUBJECTED TO HYDROSTATIC PRESSURE, INSPECTED, AND TESTED FOR LEAKAGE AT ANY CONVENIENT TIME AFTER PARTIAL COMPLETION OF BACKFILL. THE CONTRACTOR MAY TEST THE SYSTEM WITH JOINTS EXPOSED OR WITH BACKFILLING COMPLETE AT HIS OPTION. THE ENGINEER AND THE UTILITY COMPANY SHALL BE NOTIFIED AT LEAST 24 HOURS BEFORE SCHEDULING TESTING WITH A UTILITY COMPANY REPRESENTATIVE PRESENT.

2-7 AS-BUILT CERTIFICATION

IN ACCORDANCE WITH THE RULES OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, CHAPTER 62-604, THE ENGINEER OF RECORD WILL BE RESPONSIBLE FOR OBSERVATION OF THE CONSTRUCTION OF THE RECLAIMED WATER SYSTEM TO ASSURE COMPLIANCE WITH PLANS AND SPECIFICATIONS, AND SAID ENGINEER WILL REPORT TO DEP UPON COMPLETION OF THE CONSTRUCTION BEFORE THE SYSTEM CAN BE PLACED INTO SERVICE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 24 HOURS BEFORE BEGINNING CONSTRUCTION ON THE RECLAIMED WATER SYSTEM.

2-8 AS-BUILT DRAWINGS

THE CONTRACTOR SHALL FURNISH THE ENGINEER AT THE CLOSE OF THE PROJECT, WITH ONE (1) SET OF MARKED-UP CONSTRUCTION PLANS DEPICTING AS-BUILT CONDITIONS OF THE RECLAIMED WATER SYSTEM. THE AS-BUILT PLANS SHALL SHOW THE LOCATION OF WATER SERVICES, BENDS AND VALVES. ENGINEERING APPROVAL OF THE RECLAIMED WATER SYSTEM WILL NOT BE MADE UNTIL ACCURATE AND LEGIBLE AS-BUILT PLANS ARE RECEIVED.

END OF SECTION

SECTION 3 - SANITARY SEWAGE SYSTEM

3-1 DESCRIPTION

THE WORK SPECIFIED IN THIS SECTION CONSISTS OF THE CONSTRUCTION OF A GRAVITY SANITARY SEWER COLLECTION SYSTEM, INCLUDING SANITARY SEWER COLLECTION LINES, SERVICE LINES, SANITARY SEWER MANHOLES, AND OTHER APPURTENANCES, IN CONFORMITY WITH THE PLANS AND IN ACCORDANCE WITH THESE SPECIFICATIONS, OR THE SPECIFICATIONS AND REQUIREMENTS OF THE DESTIN WATER USERS, INC. (UTILITY COMPANY), WHICHEVER IS MORE STRINGENT.

3-2 CODES AND STANDARDS

THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-604 OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION RULES AND THE APPLICABLE PORTIONS OF THE NATIONAL STANDARD PLUMBING CODE AND TEN STATE STANDARDS, PERTAINING TO THE INSTALLATION OF GRAVITY SANITARY SEWER COLLECTION SYSTEMS. THE CONTRACTOR SHALL OBTAIN REQUIRED PERMITS FROM DEP AND INSPECTIONS REQUIRED BY THE UTILITY COMPANY.

3-3 MATERIALS

3-3.1 GRAVITY SEWER COLLECTION LINES AND FITTINGS

GRAVITY SEWER COLLECTION LINE PIPING AND FITTINGS (6" THROUGH 12") SHALL BE POLYVINYL CHLORIDE (PVC) CONFORMING TO ASTM D 3034, TYPE PSM, SDR 35. JOINTING SHALL BE ACCOMPLISHED BY MEANS OF ELASTOMERIC GASKET JOINTS CONFORMING TO ASTM D 3212. GASKET MATERIAL SHALL BE SUITABLE FOR USE WITH DOMESTIC SEWAGE AND SHALL CONFORM TO ASTM F 477.

3-3.2 SEWER SERVICE LINES

SEWER SERVICE PIPING AND FITTINGS (4"AND SMALLER) SHALL BE POLYVINYL CHLORIDE (PVC) CONFORMING TO ASTM D 3034, TYPE PSM, SDR 35. JOINTING SHALL BE ACCOMPLISHED BY MEANS OF ELASTOMERIC GASKET JOINTS CONFORMING TO ASTM 3212. GASKET MATERIAL SHALL BE SUITABLE FOR DOMESTIC SEWAGE AND SHALL CONFORM TO ASTM F 477 (SEE DETAIL).

3-3.3 MANHOLES

SANITARY SEWER MANHOLES SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE, SIZED AS INDICATED, AND COMPLYING WITH ASTM C 478. MANHOLE TOPS SHALL BE ECCENTRIC CONE TYPE AND MANHOLE BASES SHALL BE BASE RISER SECTIONS WITH INTEGRAL FLOORS. NO STEPS SHALL BE PROVIDED IN ANY SANITARY SEWER MANHOLES OF ANY DEPTH.

SANITARY SEWER MANHOLE FRAMES AND COVERS SHALL BE OF HEAVY-DUTY CAST IRON CONSTRUCTION, SIZED AS INDICATED. THE MANHOLE COVER SHALL BE OF INDENTED TOP DESIGN WITH LETTERING CAST INTO THE TOP READING "SEWER". MANHOLE FRAMES AND COVERS SHALL BE VULCAN FOUNDRY NO. VM-37, NEENAH FOUNDRY NO. R-1600, OR APPROVED EQUAL.

ANY SEWER FORCE MAINS THAT DISCHARGE INTO MANHOLES, THE MANHOLE SHALL BE COATED WITH HDPE LINER OR A SPRAY LINER APPROVED BY DWU.

3-3.4 CLEANOUTS

SANITARY SEWER CLEANOUTS SHALL BE CONSTRUCTED OF PVC PIPE AND EXTENDED TO THE GROUND SURFACE WITH PVC PLUGS. SEE DETAIL

3-4 INSTALLATION

3-4.1 GRAVITY COLLECTION AND SERVICE LINES

EACH SECTION OF PIPE SHALL BE CAREFULLY INSPECTED BEFORE AND AFTER IT IS IN- STALLED AND DEFECTIVE PIPE SHALL BE REJECTED AND REMOVED. SEWER LINES SHALL BE LAID BEGINNING AT THE LOW POINT OF THE SYSTEM, TRUE TO THE GRADE AND ALIGNMENT INDICATED, WITH UNBROKEN CONTINUITY OF INVERT. CLEAR INTERIOR OF PIPING OF DIRT AND OTHER SUPERFLUOUS MATERIAL AS WORK PROGRESSES. OPEN ENDS OF PIPE AT THE END OF EACH DAY'S WORK SHALL BE CLOSED TEMPORARILY WITH WOOD BLOCKS OR BULKHEADS. IN ADDITION TO THE ABOVE, PVC GRAVITY SEWER LINES SHALL BE INSTALLED IN ACCORDANCE WITH UNI-B-5.

SEWERS SHALL BE LAID AT LEAST 10' HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A TEN FOOT SEPARATION, AND WHEN APPROVED BY D.E.P., DWU, AND THE ENGINEER, THE SEWER MAY BE INSTALLED CLOSER TO THE WATER MAIN, PROVIDED THAT THE WATER MAIN IS IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AT AN ELEVATION SO THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18" ABOVE THE TOP OF THE SEWER.

SEWERS CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10' BETWEEN ANY TWO JOINTS. ALTERNATIVELY, THE SEWER MAIN MAY BE PLACED IN A SLEEVE OR ENCASED IN CONCRETE TO OBTAIN THE EQUIVALENT OF THE REQUIRED 11' SEPARATION.

EXCAVATION OF PIPE TRENCHES SHALL CONFORM TO SECTION 2 OF THESE SPECIFICATIONS.

3-4.2 SEWER MANHOLES

SANITARY SEWER MANHOLES SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C 891. WHERE MANHOLES OCCUR IN PAVEMENTS, SET TOP OF FRAMES AND COVERS FLUSH WITH THE FINISHED SURFACE. ELSEWHERE, SET TOPS 3" ABOVE FINISHED SURFACE, UNLESS OTHERWISE INDICATED. GROUT INVERTS OF MANHOLES TO PROVIDE CONTINUITY OF GRADE AND DIRECTION CHANGE THROUGH MANHOLE. THE EXTERIOR OF THE MANHOLE SHALL BE GIVEN TWO COATS OF KOPPERS 300M, OR EQUAL, BEFORE BACKFILLING OPERATION.

SEWER MANHOLES SHALL BE COATED WITH A SELF-PRIMING HEAVY DUTY COLD APPLIED COAL TAR MATERIAL SIMILAR AND EQUAL TO KOPPERS "BITUMASTIC SUPER SERVICE BLACK". PROVIDE A MINIMUM OF TWO (2) COATS AT A RATE OF 50 TO 60 SQUARE FEET PER GALLON PER COAT.

ANY MANHOLE, EXISTING OR NEW, THAT HAS A PRESSURIZED SEWER PIPE BEING TIED INTO IT WILL NEED TO BE LINED WITH HDPE OR LINER APPROVED BY DWU.

3-4.3 FRAMES AND COVERS

FRAMES AND COVERS ARE TO BE PLACE AND SEALED ON THE MANHOLE DURING CONSTRUCTION AS TO NOT LET ANY DEBRIS OR WATER TO ENTER SYSTEM. ALL FRAMES SHALL HAVE A STAINLESS STEEL RAIN GUARD INSTALLED, MANUFACTURED BY PORT CITY PIPE OR AN APPROVED EQUAL.

3-5 BACKFILLING

BACKFILL PIPE TRENCHES AND AROUND STRUCTURES IN ACCORDANCE WITH SECTION 2 OF THESE SPECIFICATIONS.

3-6 INSPECTION AND TESTING

INSPECT PIPING TO DETERMINE WHETHER LINE DISPLACEMENT OR OTHER DAMAGE HAS OCCURRED. MAKE INSPECTIONS AFTER LINES BETWEEN MANHOLES, OR MANHOLE LOCATIONS, HAVE BEEN INSTALLED AND APPROXIMATELY 2' OF BACKFILL IS IN PLACE, AND AGAIN AT THE COMPLETION OF THE PROJECT. IF INSPECTION INDICATES POOR ALIGNMENT, DEBRIS, DIS- PLACEMENT, OR OTHER DEFECTS, CORRECT SUCH DEFECTS AND REINSPECT.

LEAKAGE TESTS MAY INCLUDE APPROPRIATE WATER OR LOW PRESSURE AIR TESTING. THE LEAKAGE OUTWARD OR INWARD (EXFILTRATION OR INFILTRATION) SHALL NOT EXCEED 50 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM. AN EXFILTRATION OR INFILTRATION TEST AS APPROPRIATE SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2'. THE WATER TEST, IF USED, SHALL BE RUN CONTINUOUSLY FOR A PERIOD OF NOT LESS THAN 3 HOURS, WITH WEIR READING TAKEN AT 20 MINUTE INTERVALS. THE AIR TEST, IF USED, SHALL, AS A MINIMUM, CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM F1417-92 (1998) "STANDARD TEST METHOD FOR INSTALLATION ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW-PRESSURE AIR". ALL TEST TIMES SHALL BE CALCULATED USING RAMSEIER'S EQUATION T = 0.085 (D/Q) WHERE

T = SHORTEST TIME, IN SECONDS ALLOWED FOR THE AIR PRESSURE TO DROP 1.0 PSIG
K = 0.000419 DL, BUT NOT LESS THAN 1.0
Q = 0.0015 CUBIC FEET/MINUTE/ SQUARE FEET OF INTERNAL SURFACE
D = NOMINAL PIPE DIAMETER IN INCHES
L = LENGTH OF PIPE BEING TESTED IN FEET

FOR MORE EFFICIENT TESTING OF LONG TEST SECTIONS AND /OR SECTIONS OF LARGER DIAMETER PIPES A TIMED PRESSURE DROP OF 0.5 PSIG MAY BE USED IN LIEU OF THE 1.0 PSIG DROP. IF 0.5 PSIG PRESSURE DROP IS USED, APPROPRIATE REQUIRED TEST TIMES SHALL BE EXACTLY HALF AS LONG AS THOSE OBTAINED USING RAMSEIER'S EQUATION FOR T CITED ABOVE.

THE TESTING METHODS PROVIDED SHOULD TAKE INTO CONSIDERATION THE RANGE IN GROUNDWATER ELEVATIONS PROJECTED AND THE SITUATION DURING THE TEST.

THE TEST SHALL BE MADE BY THE CONTRACTOR WITH THE UTILITY COMPANY REPRESENTATIVE BEING PRESENT TO VERIFY THE TEST ACCURACY. THE ENGINEER AND THE UTILITY COMPANY SHALL BE NOTIFIED 24 HOURS IN ADVANCE. WHERE INFILTRATION OCCURS IN EXCESS OF THE SPECIFIED AMOUNT, THE DEFECTIVE PIPE OR JOINTS SHALL BE LOCATED AND REPAIRED AT THE EXPENSE OF THE CONTRACTOR. IF THE DEFECTIVE PORTIONS CANNOT BE SO LOCATED, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL REMOVE AND RECONSTRUCT AS MUCH OF THE ORIGINAL WORK AS NECESSARY TO OBTAIN A SEWER SYSTEM WITHIN THE ALLOWABLE INFILTRATION LIMITS.

THE SEWER OR SEWERS SHALL BE PUMPED OUT AND NORMAL INFILTRATION CONDITIONS PREVAIL BEFORE TESTING SHALL BE STARTED.

ALL SEWER MAINS AND SERVICES SHALL BE PRESSURE TESTED AS SPECIFIED IN THIS SECTION OR AS REQUIRED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE UTILITY COMPANY.

ALL SANITARY SEWER MAINS AND MANHOLES MUST BE VIDEO TAPED AND PROVIDED TO THE UTILITY COMPANY BEFORE ACCEPTED FOR SERVICE.

3-7 AS-BUILT CERTIFICATION

IN ACCORDANCE WITH THE RULES OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, CHAPTER 62-604, THE ENGINEER OF RECORD WILL BE RESPONSIBLE FOR OBSERVATION OF THE CONSTRUCTION OF THE SANITARY SEWER COLLECTION SYSTEM TO ASSURE COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, AND SAID ENGINEER WILL REPORT TO DEP UPON COMPLETION OF THE CONSTRUCTION BEFORE THE SYSTEM CAN BE PLACED INTO OPERATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 24 HOURS BEFORE BEGINNING CONSTRUCTION ON THE SEWER COLLECTION SYSTEM.

3-8 AS-BUILT DRAWINGS

THE CONTRACTOR SHALL FURNISH THE ENGINEER AT THE CLOSE OF THE PROJECT, WITH THREE (3) SETS OF MARKED-UP CONSTRUCTION PLANS DEPICTING AS-BUILT CONDITIONS OF THE SANITARY SEWER SYSTEM. THE AS-BUILT PLANS SHALL SHOW THE LOCATION OF SANITARY SEWER SERVICES AND THE LOCATION AND ELEVATION OF SANITARY SEWER MANHOLES. ELEVATIONS SHALL BE RELATIVE TO PROJECT DATUM. ENGINEERING APPROVAL OF THE SANITARY SEWER SYSTEM WILL NOT BE MADE UNTIL ACCURATE AND LEGIBLE AS-BUILT PLANS ARE RECEIVED. THE UTILITY COMPANY REQUIRES AN ELECTRONIC CAD FILE IN ADDITION TO CERTIFIED RECORD DRAWINGS.

END OF SECTION

SECTION 4 - SANITARY SEWER PUMPING SYSTEM

4-1 DESCRIPTION

THE WORK SPECIFIED IN THIS SECTION CONSISTS OF THE CONSTRUCTION OF A SANITARY SEWER PUMPING SYSTEM, INCLUDING LIFT STATION, CONTROL PANELS, PRESSURE CONDUIT AND VALVES, AND OTHER APPURTENANCES IN CONFORMITY WITH THE PLANS AND IN ACCORDANCE WITH THESE SPECIFICATIONS, OR THE REQUIREMENTS OF THE DESTIN WATER USERS, INC. (UTILITY COMPANY), WHICHEVER IS MORE STRINGENT.

4-2 CODES AND STANDARDS

THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-604 OF THE FLORIDA D.E.P. RULES AND THE APPLICABLE PORTIONS OF THE NATIONAL STANDARDS PLUMBING CODE AND TEN STATE STANDARDS, PERTAINING TO THE INSTALLATION OF SANITARY SEWER SYSTEMS. ALL ELECTRICAL WORK SHALL BE PERFORMED IN THE NATIONAL ELECTRIC CODE. THE CONTRACTOR SHALL OBTAIN REQUIRED PERMITS AND INSPECTIONS FROM THE UTILITY COMPANY.

4-3 SUBMITTALS

THE CONTRACTOR SHALL SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTION FOR CONDUIT AND FITTINGS, VALVES, AND ACCESSORIES. IN ADDITION, SHOP DRAWINGS AND/OR CATALOG PERFORMANCE (INCLUDING INSTALLATION DRAWINGS, WIRING DIAGRAMS, OPERATION AND MAINTENANCE INSTRUCTION) FOR PUMP STATION, AND CERTIFIED PUMP PERFORMANCE CURVES SHALL BE SUBMITTED. THE CONTRACTOR SHALL NOT SHIP NOR INSTALL EQUIPMENT PRIOR TO RECEIPT OF SHOP DRAWINGS STAMPED "FOR JOB USE" OR "APPROVED FOR CONSTRUCTION" FROM THE ENGINEER.

4-4 PRODUCTS/MATERIALS

4-4.1 PUMPS

PUMP MOTORS SHALL BE SIZED AS REQUIRED TO BE NON-OVERLOADING AT ANY POINT ON THE PUMP PERFORMANCE CURVE. THE PUMPS SHALL BE WILO, KSB OR GRUMDFOS SEWER PUMPS. THE PUMPS SHALL BE EQUIPPED WITH SUBMERSIBLE MOTORS, SUITABLE FOR OPERATION IN DOMESTIC SEWAGE, BUT WITH THE CAPACITY TO RUN "DRY" WITHOUT DAMAGE. THE PUMPS SHALL BE DESIGNED FOR REMOVAL FROM ABOVE USING A 2"Ø GUIDE RAIL SYSTEM. PUMPS MUST BE ABLE TO PASS MINIMUM SPHERE OF 3.0". REFER TO LIFT STATION DETAILS FOR PUMP MODEL AND SPECIFICATIONS.

4-4.2 ELECTRICAL SECTION

THIS SECTION APPLIES TO LIFT STATION DISCHARGING 300 GALLONS PER MINUTE OR LESS. ALL OTHERS SHALL BE SUBMITTED TO DESTIN WATER USERS FOR APPROVAL.

4-4.3 CONTROL PANEL

PROVIDED BY THE UTILITY COMPANY.

4-4.4 POWER SUPPLY AND MAIN DISCONNECT

POWER SUPPLY TO THE CONTROL PANEL SHALL BE EITHER 240 VOLT, 3 PHASE, 4 WIRE OR 480 VOLT, 3 PHASE, 4 WIRE. MINIMUM SERVICE SHALL BE 240 VOLT 200 AMP. A 3" RIGID SCHEDULE 40 CONDUIT FOR INCOMING POWER FROM TRANSFORMER TO METER SHALL BE PROVIDED. SINGLE PHASE WILL NOT BE ACCEPTED.

FUSIBLE SAFETY DISCONNECT OF RATED INCOMING AMPERAGE SHALL BE MANUFACTURED BY SQUARE D (MODEL #H324NRB). ALL DISCONNECTS SHALL BE INSTALLED BETWEEN METER AND DOUBLE THROW SAFETY SWITCH.

4-4.5 CONDUIT

ALL CONDUIT SHALL BE 2" RIGID SCHEDULE 40 (EXCEPT AS STATED IN 4.4). A SEAL OFF IS REQUIRED FOR ALL CONDUITS BETWEEN THE WET WELL AND CONTROL PANEL. THE SEAL OFF SHALL BE FILLED WITH APPLETON DUC SEAL NON-HARDENING COMPOUND. THESE SHALL BE MOUNTED 12" OFF THE CONCRETE PAD. EACH CONDUIT SHALL ENTER THE CONTROL PANEL DIRECTLY UNDER THE CORRESPONDING CONTROL POINT.

4-5 WETWELL SECTION

THIS SECTION APPLIES TO LIFT STATIONS DISCHARGING 300 GALLONS PER MINUTES OR LESS. ALL LIFT STATIONS WILL BE A DUPLEX PUMP STYLE. ALL OTHERS MUST BE SUBMITTED FOR APPROVAL.

4-5.1 WET WELL

MINIMUM INSIDE DIAMETER OF 4' AND SHALL NOT HAVE LESS THAN 7' OF DEPTH FROM BOTTOM OF THE LOWEST INVERT TO TOP OF GROUT. THE WET WELL FLOOR SHALL BE FILLED WITH GROUT UP TO BOTTOM OF THE BASE ELLS. ALL INSIDE SEAMS SHALL BE FILLED WITH NON-SHRINK GROUT. WET WELL SHALL BE COATED WITH HDPE LINER OR SPRAY LINER APPROVED BY DWU.

4-5.2 PIPING

ALL PIPING SHALL BE 4" OR GREATER DUCTILE IRON. ALL CONNECTIONS WILL BE MADE BY MEANS OF FLAT FLANGE TYPE. DISCHARGE PIPES SHALL BE ONE CONTINUOUS PIECE FROM THE BASE ELL TO THE 90 DEGREE ELBOW THAT EXITS WET WELL. FOR DISCHARGE PIPES THAT HAVE A LENGTH GREATER THAN 15', A SOLID SLEEVE COUPLING SHALL BE USED. THE COUPLING WILL BE MOUNTED SO IT WILL NOT BE SUBMERSED EXCEPT UNDER A FLOODED CONDITION.

4-5.3 BASE ELLS

BASE ELLS SHALL BE HIGH PRESSURE COUPLING STYLE AS MANUFACTURED BY APPROVED PUMP MANUFACTURER. IT SHALL BE A HIGH PRESSURE COUPLING STYLE THAT UTILIZES A SINGLE STAINLESS STEEL 2"Ø RAIL SYSTEM. THE RAIL SHALL BE CONTINUOUS FROM BASE ELL TO 6" ABOVE 90 DEGREE ELBOW. THE RAILS SHALL BE MOUNTED TO THE 90 DEGREE ELBOWS BY AN INTERMEDIATE GUIDE RAIL SUPPORT FLANGE MOUNT.

4-5.4 GROUT

THE FLOOR SHALL BE POURED WITH GROUT UP TO THE BOTTOM OF BASE ELLS, AT A 1 TO 1 SLOPE ON THE SIDES FOR CHAMFER (ROLLOC) BUT IS NOT TO INTERFERE WITH PUMP OPERATION.

4-5.5 FLOAT HANGER

PROVIDED BY DWU.

4-5.6 AIR VENT

A 4" ALUMINUM AIR VENT IS REQUIRED. IT IS TO BE STUB ON OPPOSITE SIDE AS THE CONDUIT FROM WET WELL UNDER THE CONTROL PANEL A MINIMUM OF 18" ABOVE ELEVATION OF WET WELL.

4-5.7 CROSS BRACE

A CROSS BRACE MADE OF 3"X3"X1/2" ALUMINUM ANGLE SHALL BE USED TO BRACE THE DISCHARGE PIPES TO THE WET WELL. IT WILL BE MOUNTED BEHIND THE PIPES TO THE WET WELL WALL WITH A BASE PLATE MEASURING 6"X9"X3/8". THE BASE PLATE SHALL BE ALUMINUM FLAT STOCK AND SHALL BE SECURED TO WALL WITH TWO 3/8" ANCHOR BOLTS STAINLESS STEEL. THE BRACE SHALL BE CONNECTED TO THE DISCHARGE PIPES WITH A 4"X3/16" STAINLESS STEEL U-BOLT. THE BRACE SHALL BE MOUNTED 18" BELOW THE 90 DEGREE ELBOWS OF THE DISCHARGE PIPES.

4-5.8 ACCESS COVER

THE ACCESS COVER SHALL BE MANUFACTURED BY HALLIDY OR THOMSON FAB. FOR DWU 36X48 ALUMINUM WITH SLAMLOCK & ANCHORS. ACCESS COVER SHALL OPEN TOWARD THE DRYWELL.

4-6 DRYWELL SECTION

THIS SECTION APPLIES TO LIFT STATIONS DISCHARGING 300 GALLONS PER MINUTE OR LESS. ALL OTHERS WILL BE SUBMITTED FOR APPROVAL.

4-6.1 DRYWELL

A PRECAST CONCRETE UTILITY BOX WITH OUTSIDE DIMENSION OF 6'X5'X4' IS REQUIRED. A MINIMUM CLEARANCE OF 6" FROM INSIDE WALL OR FLOOR AND ANY ASSEMBLY IS REQUIRED. A 48"X42" DOUBLE DOOR ACCESS HATCH WITH RECESSED HANDLE AND SLAM LOCK, NO PADLOCK TAB. AS MANUFACTURED BY HALLIDY OR THOMPSON FAB FOR DESTIN WATER USERS WILL BE USED.

4-6.2 ACCESS COVER

THE ACCESS COVER SHALL BE MANUFACTURED BY HALLIDY OR THOMPSON FAB FOR DWU 48X42 ALUMINUM WITH SLAMLOCK AND ANCHORS. ACCESS COVER SHALL BE ON CENTER WITH DISCHARGE PIPES AND SHALL SLAMLOCK TO WET WELL SIDE.

4-6.3 PIPE

ALL PIPING SHALL BE 4" OR GREATER DUCTILE IRON. ALL CONNECTIONS SHALL BE OF FLAT FLANGE TYPE. PIPE FROM WET WELL TO CHECK VALVE WILL BE CONTINUOUS AND WILL TERMINATE NO CLOSER THAN 6" FROM INSIDE WALL.

4-6.4 CHECK VALVE

CHECK VALVES SHALL BE OUTSIDE SPRING AND LEVER 4" FLAT FLANGE STYLE AS MANUFACTURED BY AVK. TWO ARE REQUIRED.

4-6.5 PLUG VALVE

PLUG VALVES SHALL BE 1/4 TURN FLAT FLANGE STYLE AS MANUFACTURED BY VAL MATIC.

4-6.6 GATE VALVES

GATE VALVES SHALL BE OF CAST IRON BODY, RESILIENT SEAT DESIGN. GATE VALVES SHALL HAVE A MINIMUM WORKING PRESSURE OF 175 PSI, AND SHALL COMPLY WITH AWWA C 500. GATE VALVES SHALL OPEN BY COUNTERCLOCKWISE ROTATION OF THE VALVE STEM AND SHALL BE FITTED WITH HUB-TYPE HAND OPERATORS. GATE VALVES SHALL BE SIZED AND LOCATED AS INDICATED ON THE PLANS. ALL GATE VALVES 4" AND LARGER SHALL BE AMERICAN FLOW CONTROL SERIES 2500 MECHANICAL JOINT DUCTILE IRON OPEN LEFT RESILIENT WEDGE WITH 2"X2" OPERATING NUT OR APPROVED EQUAL.

4-6.7 BYPASS

THE BYPASS SHALL BE A 4" MALE QUICK DISCONNECT WITH DUST PLUG. IT SHALL BE MOUNTED TO A 4" CAST IRON FLAT FLANGE FEMALE ADAPTER WITH A 4" GALVANIZED CLOSE NIPPLE 6" IN LENGTH.

4-6.8 FORCEMAIN

DUCTILE IRON PIPE SHALL BE USED TO EXIT THE DRYWELL TO A POINT 18" PAST OUTSIDE WALL. A MECHANICAL JOINT TRANSITION COUPLING SHALL BE USED TO CONNECT TO THE PVC FORCEMAIN.

4-6.9 PRESSURE GAUGE

ONE LIQUID FILLED, STAINLESS STEEL, 0 TO 100 PSI PRESSURE GAUGE WITH 3-1/2" FACE SHALL BE USED ON EACH DISCHARGE PIPE WITH A PETCOCK VALVE.

4-6.10 DRAIN

THE DRAIN FROM DRYWELL TO WET WELL SHALL BE A 3" PVC PIPE, ON A 1/2" FALL PER FOOT SLOPE, EXTENDED A MINIMUM OF 8" INTO WET WELL. A GRAVITY FLOW PVC CHECK VALVE WITH REMOVABLE TOP SHALL BE USED. CHECK VALVE SHALL BE MANUFACTURED BY PLASTIC ODDITIES (MODEL #PBF 380).

4-6.11 MISCELLANEOUS HARDWARE

THE CONTRACTOR SHALL SUPPLY ALL MISCELLANEOUS HARDWARE. ALL MISCELLANEOUS HARDWARE SHALL BE OF TYPE 304 ALLOY, STAINLESS STEEL CONSTRUCTION.

4-7 WATER SERVICE

A 3/4" WATER SERVICE SHALL BE SUPPLIED. LOCATION TO BE COORDINATED WITH DESTIN WATER USERS.

4-8 ACCESS

ACCESS SHALL BE PROVIDED FOR OPERATION AND MAINTENANCE ON A 24-HOUR BASIS. IF A DRIVEWAY IS USED, IT MUST BE CONSTRUCTED AT A MINIMUM OF 12' WIDE AND BE ABLE TO SUPPORT A HEAVY-DUTY VEHICLE WITH TRAILER MOUNTED 100 KV GENERATOR. LOCATION OF DRIVE TO BE COORDINATED WITH DWU.

DATE:	July 11, 2023
REVISION DATE:	 2023
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REVIEWED BY:	MA/BS
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ENGINEERING THE SOUTH SINCE 1927
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FLORIDA CERTIFICATE OF AUTHORIZATION #00003745
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

DWU TYPICAL SPECIFICATIONS 2

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1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MG

4-9 EASEMENT

A RECORDED EASEMENT SHALL BE REQUIRED FOR ALL LIFT STATIONS AND FORCEMAINS THAT ARE NOT ON RIGHTS OF WAY. ALL COSTS OF RECORDING EASEMENT SHALL BE THE RESPONSIBILITY OF THE OWNER.

4-10 ELECTRICAL SERVICE

OWNER SHALL INITIATE ACCOUNT, PRIOR TO ANY PUMP DOWN TEST OR ACCEPTANCE BY DWU. OWNER SHALL INCUR ANY COST PRIOR TO ACCEPTANCE BY DWU.

4-11 PIPING AND PIPE FITTINGS

4-11.1 CAST IRON PIPE

ALL CAST-IRON SHALL BE CENTRIFUGALLY CAST CONFORMING TO ANSI A21.6, AND MEETING ALL THE QUALITY AND METALLURGICAL PROVISIONS OF ANSI STANDARD SPECIFICATION A 21.10 "THICKNESS DESIGN OF CAST-IRON PIPE", LINING AND COATING SHALL BE F-401 OR APPROVED EQUAL.

4-11.1.1 FLANGED JOINTS

ANSI STANDARD SPECIFICATIONS B16.1, CAST-IRON PIPE FLANGES AND FLANGED FITTINGS, 125 POUNDS, SCREWED ON FLANGES, FACED AND DRILLED TO ANSI CLASS 125 POUND TEMPLATE WITH RED SHEET RUBBER GASKETS.

4-11.1.2 FITTINGS

FITTINGS SHALL MEET ANSI STANDARD SPECIFICATION A21.10, CAST-IRON FITTINGS, 2-INCH THROUGH 48-INCH FOR WATER AND OTHER LIQUIDS. MINIMUM PRESSURE RATING SHALL BE EQUAL TO THAT OF THE PIPE SPECIFIED. ALL FITTINGS SHALL BE COATED ON INSIDE WITH PERMOX OR APPROVED EQUAL.

4-11.2 COATING FOR WASTEWATER LINES

ALL CAST IRON PIPE AND FITTINGS TO BE INSTALLED UNDERGROUND SHALL BE COATED EXTERIOR WITH HOT-DIP COAL-TAR. THE EXTERIOR OF ALL ABOVE GROUND PIPE SHALL RECEIVE A COAT OF RUST INHIBITOR PRIME COMPATIBLE WITH THE FINISH PAINT SCHEDULE. INTERIOR SHALL BE P-401 OR APPROVED EQUAL.

4-11.3 DETECTOR TAPE

ALL NON-METALLIC SEWER FORCE MAIN LINES SHALL BE MARKED WITH DETECTOR TAPE AND 12 GAUGE TRACER WIRE TO ENABLE LOCATION WITH A FERROUS METAL DETECTOR. THE DETECTOR TAPE SHALL BE PLACED APPROXIMATELY 12" ABOVE THE PIPE AND THROUGH-OUT THE ENTIRE PIPE LENGTH. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE DETECTOR TAPE DURING THE BACKFILLING OPERATION.

4-12 INSTALLATION

4-12.1 LIFT STATION AND APPURTENANCES

4-12.1.1 GENERAL

THE LIFT STATION AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS OR THE REQUIREMENTS OF DESTIN WATER USER'S, WHICHEVER IS MORE STRINGENT.

4-12.1.2 OPERATION OF SYSTEM

OPERATION OF THE STATION SHALL BE AS FOLLOWS: WATER LEVEL RISES TO LEAD PUMP ON LEVEL; THE LEAD PUMP STARTS AND LOWERS THE LEVEL TO PUMP(S) OFF LEVEL; THE PUMP STOPS AND AUTOMATICALLY ALTERNATES TO POSITION THE SECOND (LAG) PUMP AS LEAD PUMP FOR THE NEXT CYCLE. IF THE LEAD PUMP STARTS AND THE WATER LEVEL CONTINUES TO RISE TO THE LAG PUMP ON LEVEL, THE LAG PUMP WILL THEN START AND BOTH PUMPS WILL OPERATE TOGETHER UNTIL THE WATER LEVEL IS LOWERED TO THE PUMP'S OFF LEVEL. IF THE LEAD PUMP FAILS FOR ANY REASON, AN OVERRIDE CONTROL SHALL BEGIN OPERATING THE LAG PUMP.

4-12.1.3 START-UP, INITIAL OPERATION

THE CONTRACTOR SHALL START UP AND PROVIDE INITIAL TESTING BEFORE OPERATION OF THE COMPLETED PUMPING STATION. THE INITIAL OPERATION SHALL INCLUDE FILLING (USING POTABLE WATER, IF NECESSARY) OF THE WET WELL AS NECESSARY, TO CYCLE AND TEST THE PUMPS AND CONTROLS, INCLUDING SIMULATED PUMP FAILURE, AND HIGH WATER ALARM, PUMP ALTERNATION, AND OTHER FEATURES OF THE SPECIFIED EQUIPMENT. TESTING OF THE STATION SHALL BE COORDINATED WITH THE ENGINEER AND THE UTILITY COMPANY.

4-12.2 PRESSURE PIPING

4-12.2.1 GENERAL

FORCE MAIN PIPING SHALL BE POLYVINYL CHLORIDE (PVC) PIPE. FORCE MAIN PIPING 1-1/2" THROUGH 3" IN SIZE SHALL CONFORM TO ASTM D 2241, SDR 26 (PVC MATERIAL 12454-B) WITH PUSH-ON JOINTS CONFORMING TO ASTM D 3139 AND ELASTOMERIC GASKETS CONFORMING TO ASTM F 477. FORCE MAIN PIPING 4" THROUGH 12" IN SIZE SHALL CONFORM TO AWWA C 900-89, DR 18, AND SHALL BE FURNISHED IN CAST-IRON PIPE EQUIVALENT OUTSIDE DIAMETERS WITH RUBBER GASKETED JOINTS AS AWWA C 900 LISTED. ALL FORCE MAIN PIPING SHALL BE STAMPED "NSF-PW". ALL FORCE MAIN FITTINGS SHALL BE CONSTRUCTED OF EITHER DUCTILE IRON OR CAST IRON CONFORMING TO AWWA C 110 OR ANSI A 21.10, RESPECTIVELY, BLUE IN COLOR.

PRESSURE PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. THE TRENCH SHALL BE GRADED SO THAT WHEN THE PIPE RESTS ON THE TRENCH BOTTOM IT WILL HAVE A UNIFORM BEARING FOR ITS ENTIRE LENGTH. THE PIPE SHALL BE CAREFULLY EXAMINED FOR DEFECTS AND THE INSIDE CLEANED. AFTER PLACING THE PIPE IN THE TRENCH, THE ENDS SHALL BE WIPED FREE FROM ALL DIRT, SAND AND FOREIGN MATERIAL. THE JOINTS SHALL BE MADE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PIPE MANUFACTURER.

SUITABLE CONCRETE REACTION OR THRUST BLOCKS (OR APPROVED EQUAL (MEGA LUGS, BELL RESTRAINTS, ETC.) SHALL BE APPLIED ON ALL TEES, PLUGS, CAPS, AND BENDS DEFLECTING 22-1/2 DEGREES OR MORE, OR MOVEMENT SHALL BE PREVENTED BY ATTACHING METAL RODS OR STRAPS APPROVED BY THE ENGINEER. UNLESS OTHERWISE DIRECTED, THE PIPE SHALL BE LAID WITH BELL ENDS FACING IN THE DIRECTION OF LAYING. WHENEVER IT IS NECESSARY TO DEFLECT THE PIPE FROM A STRAIGHT LINE (EITHER IN THE VERTICAL OR HORIZONTAL PLANE) TO AVOID OBSTRUCTION, TO PLUMB STEMS, OR WHERE LONG RADIUS CURVES ARE PERMITTED, THE DEGREE OF DEFLECTION SHALL BE AS RECOMMENDED BY THE MANUFACTURER OF THE PIPE.

PRESSURE PIPING CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER PRESSURE PIPING JOINTS AND WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10' BETWEEN ANY TWO JOINTS. ALTERNATIVELY, THE SEWER PRESSURE PIPING MAY BE PLACED IN A SLEEVE OR ENCLOSED IN CONCRETE TO OBTAIN THE EQUIVALENT OF THE 12' SEPARATION.

EXCAVATION AND BACKFILLING OF SEWER PRESSURE PIPING SHALL CONFORM TO SECTION 2 OF THESE SPECIFICATIONS. PROVIDE A MINIMUM OF 30" OF COVER OVER SEWER PRESSURE PIPING.

4-13 TESTING

TESTING OF THE PRESSURE CONDUIT SHALL CONFORM TO SECTION 1-5 UNDER POTABLE WATER SYSTEM OF THESE SPECIFICATIONS.

4-13 TESTING

TESTING OF THE PRESSURE CONDUIT SHALL CONFORM TO SECTION 1-5 UNDER POTABLE WATER SYSTEM OF THESE SPECIFICATIONS.

4-14 AS-BUILT CERTIFICATION

IN ACCORDANCE WITH THE RULES OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, CHAPTER 62-604, THE ENGINEER OF RECORD WILL BE RESPONSIBLE FOR OBSERVATION OF THE CONSTRUCTION OF THE SANITARY SEWER PUMPING SYSTEM TO ASSURE COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, AND SAID ENGINEER WILL REPORT TO DEP UPON COMPLETION OF THE CONSTRUCTION BEFORE THE SYSTEM CAN BE PLACED INTO OPERATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 24 HOURS BEFORE BEGINNING CONSTRUCTION ON THE SANITARY SEWER PUMPING SYSTEM.

4-15 AS-BUILT DRAWINGS

THE CONTRACTOR SHALL FURNISH THE ENGINEER AT THE CLOSE OF THE PROJECT WITH ONE (1) SET OF MARKED-UP CONSTRUCTION PLANS DEPICTING AS-BUILT CONDITIONS OF THE SANITARY SEWER PUMPING SYSTEM. THE AS-BUILT PLANS SHALL SHOW THE LOCATION AND ELEVATIONS OF THE SANITARY SEWER PUMPING SYSTEM. ELEVATIONS SHALL BE RELATIVE TO PROJECT DATUM. ENGINEERING APPROVAL OF THE SANITARY SEWER PUMPING SYSTEM WILL NOT BE MADE UNTIL ACCURATE AND LEGIBLE AS-BUILT PLANS ARE RECEIVED. THE UTILITY COMPANY REQUIRES AN ELECTRONIC CAD FILE IN ADDITION TO CERTIFIED RECORD DRAWINGS.

END OF SECTION

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NOTES:

DWU TYPICAL SPECIFICATIONS 3

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BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
14191 PANAMA CITY BEACH PARKWAY, SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-0150
FLORIDA CERTIFICATE OF AUTHORIZATION #: 00000670
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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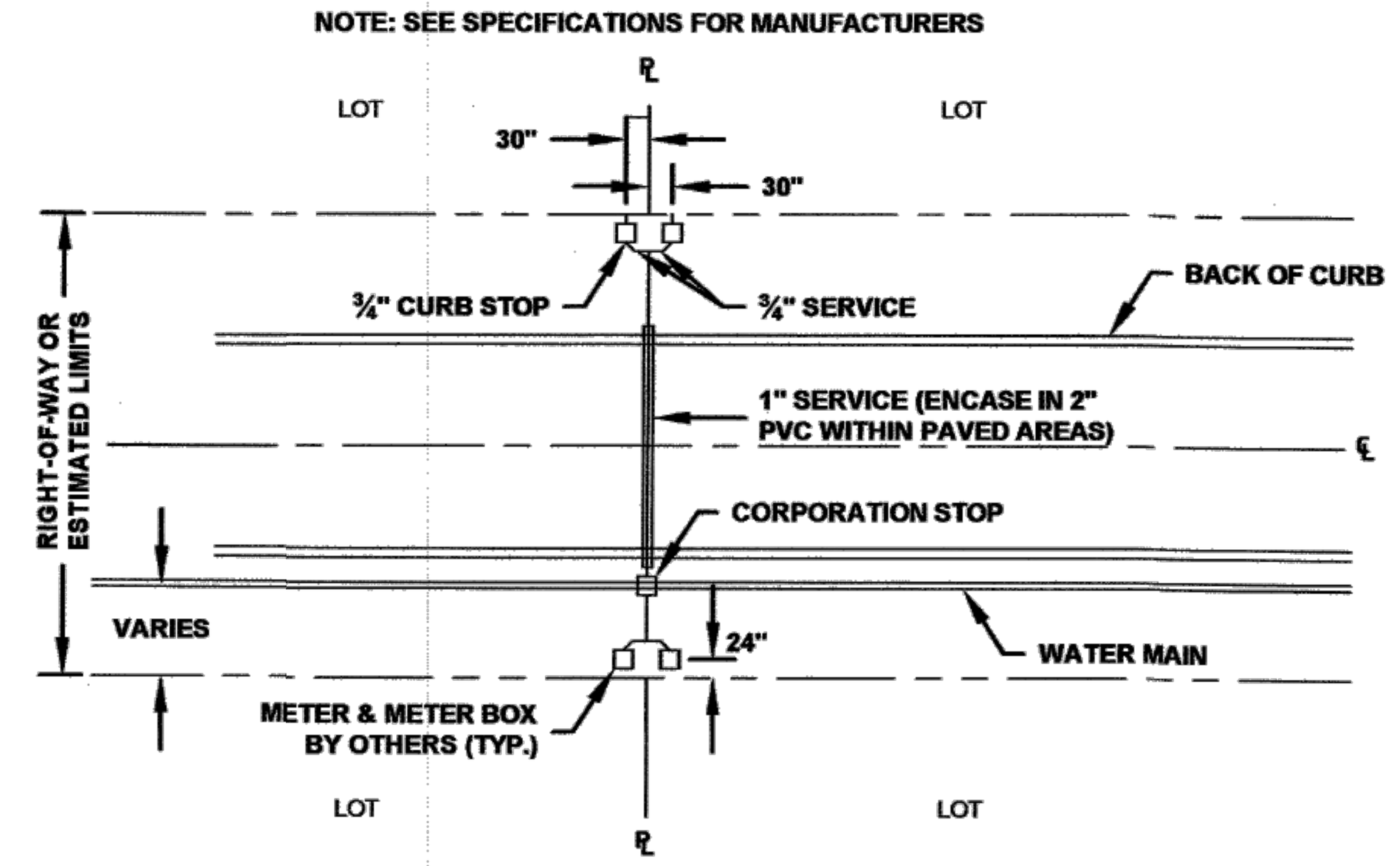
NOT RELEASED FOR CONSTRUCTION

PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR.: JCP
DATE: AUGUST 2025

TYPICAL SPECIFICATIONS 3

CU-504

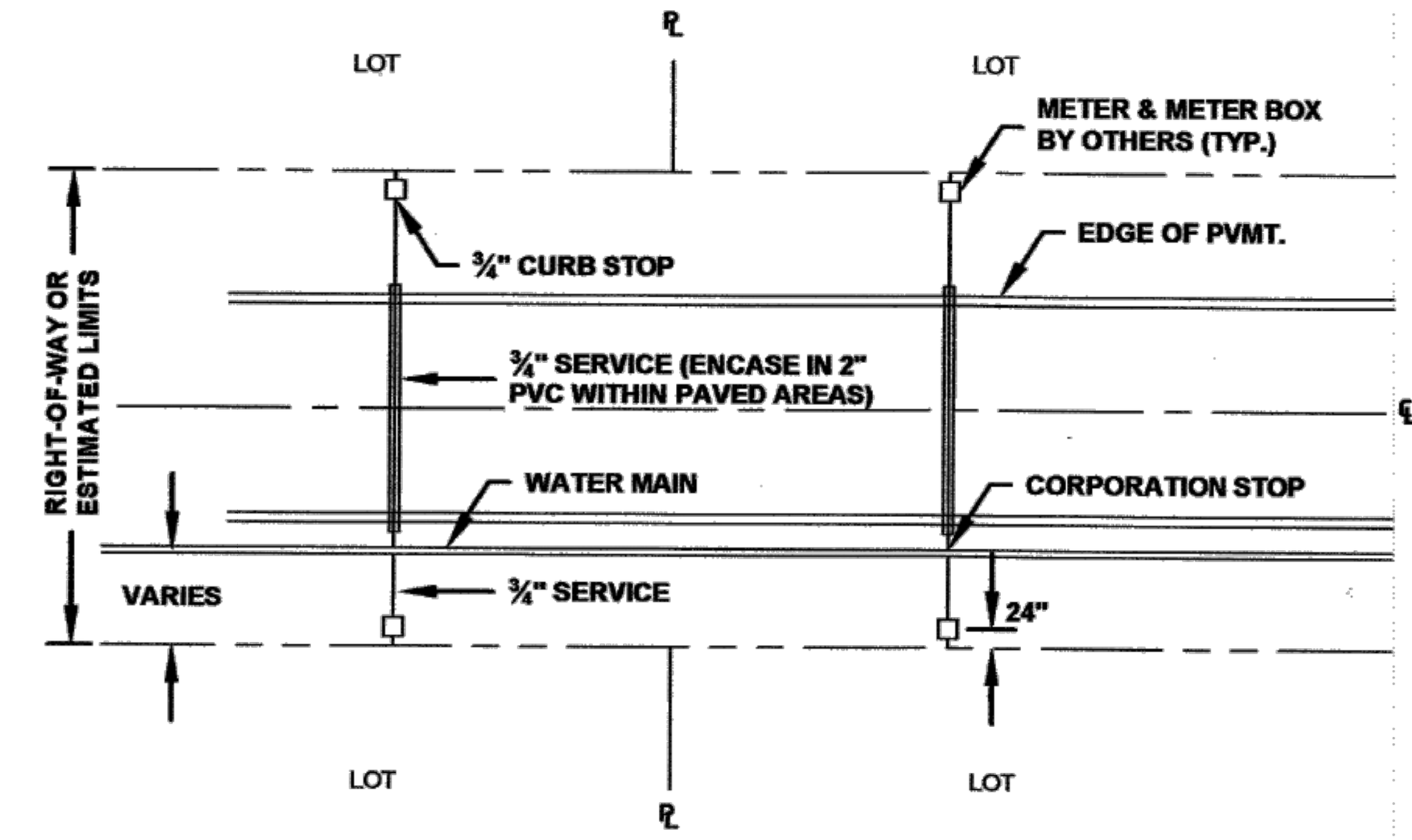
NOTE: SEE SPECIFICATIONS FOR MANUFACTURERS



DOUBLE WATER SERVICE CONNECTION PLAN

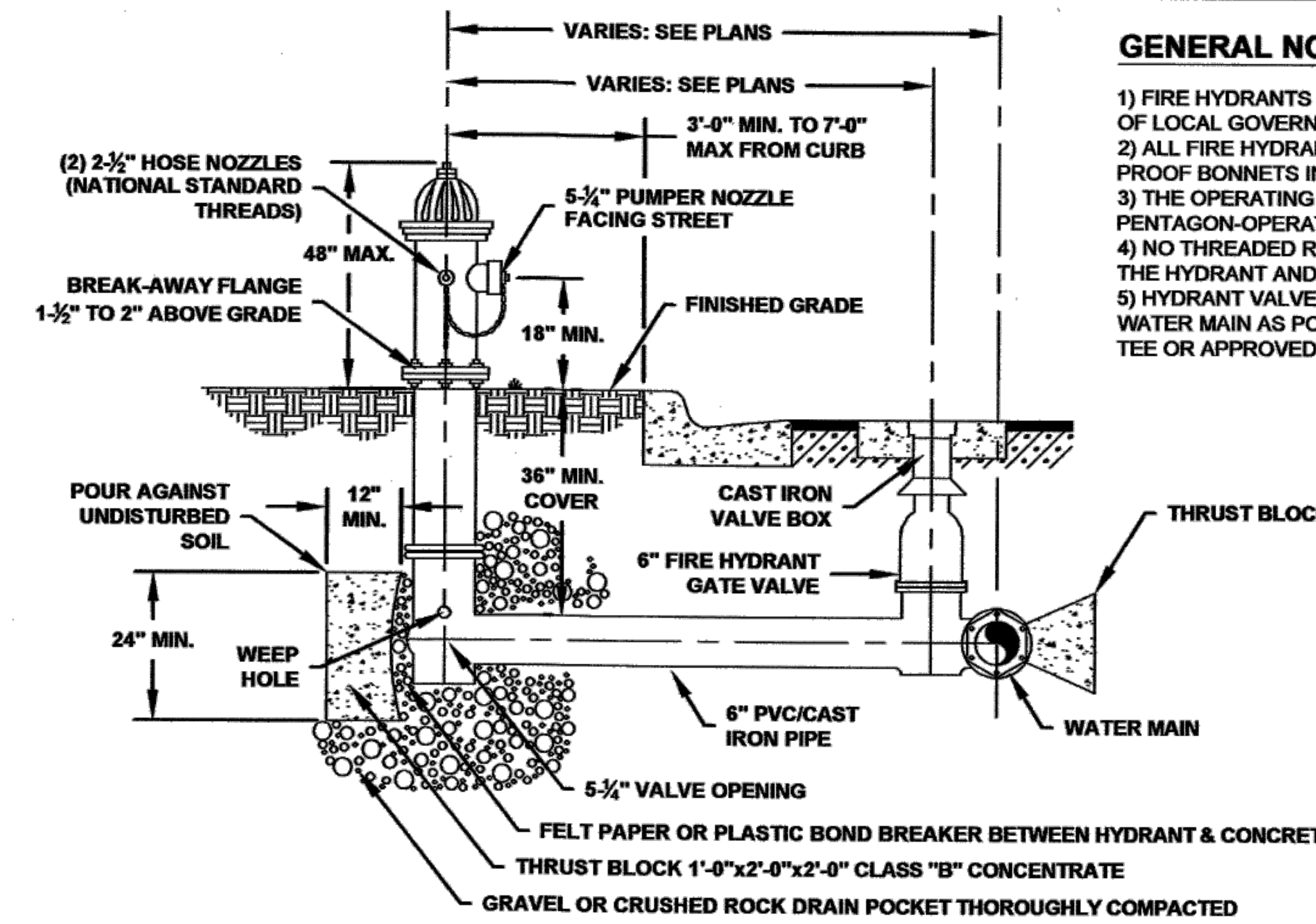
SCALE: 1" = 20'

NOTE: SEE SPECIFICATIONS FOR MANUFACTURERS



SINGLE WATER SERVICE CONNECTION PLAN

SCALE: 1" = 20'

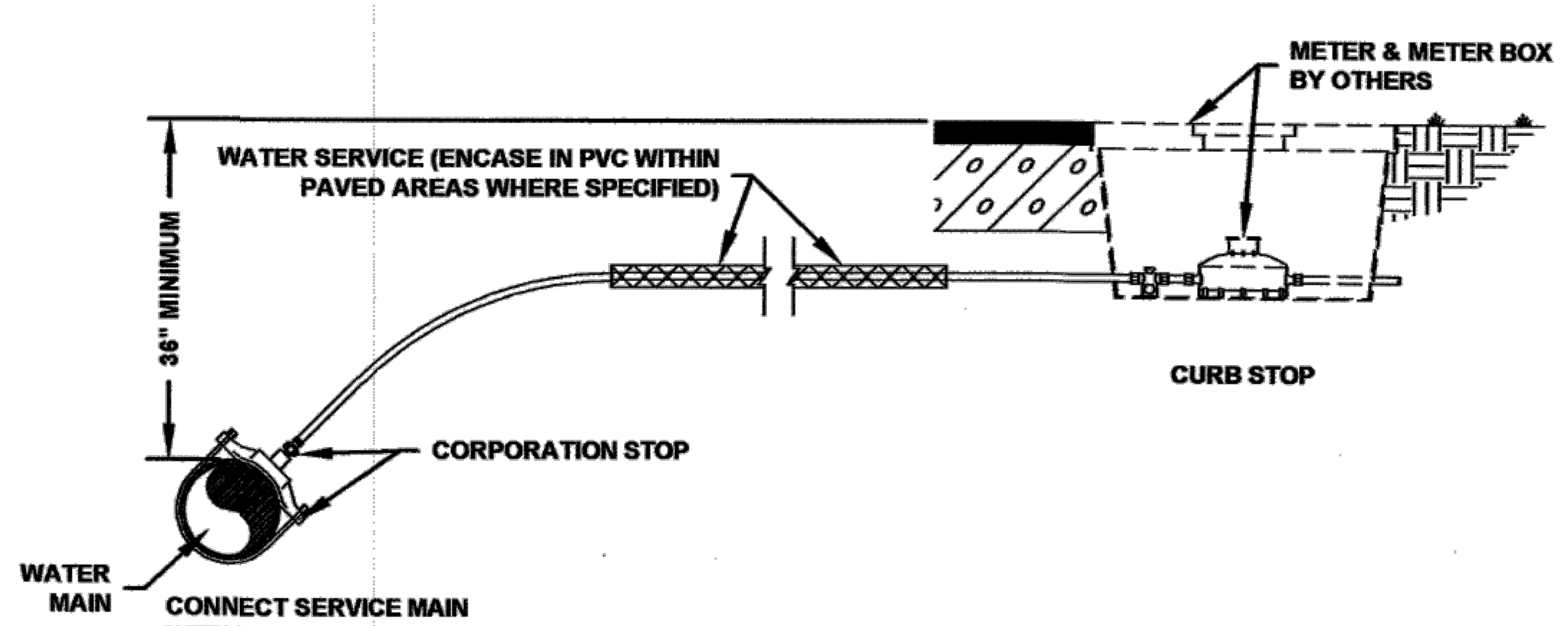


FIRE HYDRANT CONNECTION DETAIL

SCALE: 1" = 2'

GENERAL NOTES:

1) FIRE HYDRANTS TO COMPLY TO REQUIREMENTS OF LOCAL GOVERNING AUTHORITY.
2) ALL FIRE HYDRANTS MUST HAVE TAMPER PROOF BONNETS INSTALLED.
3) THE OPERATING NUT MUST BE A 1.5" PENTAGON-OPERATING NUT.
4) NO THREADED RODS ARE ALLOWED BETWEEN THE HYDRANT AND HYDRANT ISOLATION VALVE.
5) HYDRANT VALVE TO BE AS CLOSE TO THE WATER MAIN AS POSSIBLE BY USE OF A HYDRANT TEE OR APPROVED EQUAL.



WATER SERVICE CONNECTION DETAIL

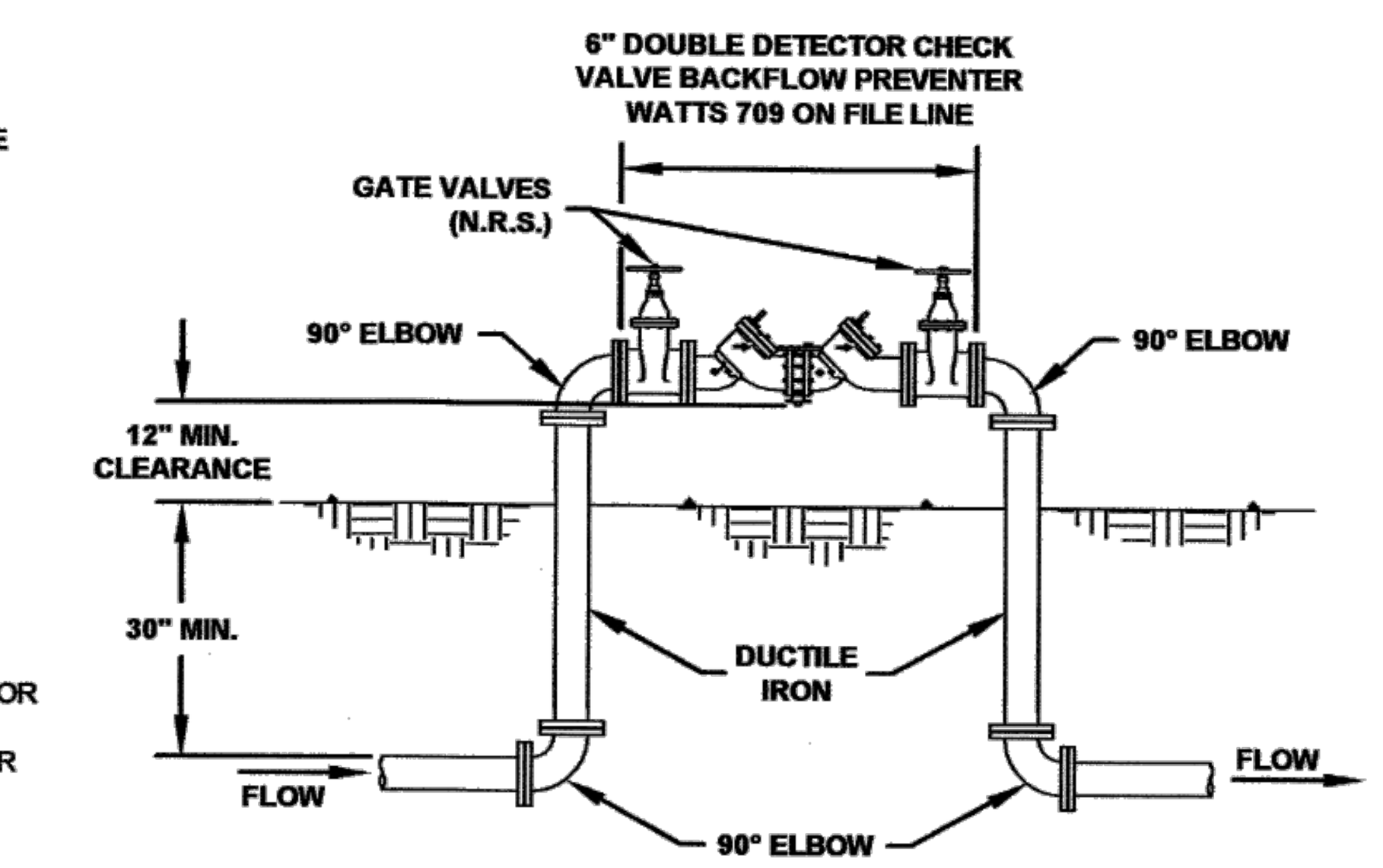
SCALE: N.T.S.

GENERAL NOTES:

1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING BACTERIOLOGICAL EXAMINATIONS ON ALL NEW WATER MAINS (AS REQUIRED BY AND TO THE SATISFACTION OF) THE DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES. THESE REQUIREMENTS NECESSITATE A SATISFACTORY SAMPLE AT EACH SAMPLE LOCATION FOR TWO CONSECUTIVE DAYS. IF THE EXAMINATION IS BY PERSONS OTHER THAN THE LOCAL HEALTH DEPARTMENT, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERING THE LABORATORY REPORTS TO THE ENGINEER FOR SUBMITTAL TO THE STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION (D.E.P.).
2) INSTALLATION OF WATER MAINS AND SERVICES SHALL COMPLY WITH ALL GOVERNING AUTHORITIES.
3) THE CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS AND REPORT ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
4) ALL PIPES SHALL BE PVC UNLESS OTHERWISE NOTED OR REQUIRED. ALL MAINS TO BE MARKED WITH NO. 12 INSULATED COPPER TRACER WIRE TO FACILITATE THEIR LOCATIONS AND METALLIC WARNING TAPE.
5) THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 36" OF COVER OVER WATER MAINS WITHIN PAVED AND UNPAVED AREAS.

GENERAL NOTES:

1) ALL FITTINGS SHALL BE CAST OR DUCTILE IRON.
2) PROVIDE THRUST BLOCKS FOR BELOW GROUND FITTINGS, SEE THRUST BLOCK DETAIL.
3) PROVIDE SUPPORTS UNDER BACKFLOW PREVENTER AS REQUIRED.



BACKFLOW PREVENTER DETAIL

SCALE: 1" = 2'

LOCATION OF PUBLIC WATER SYSYEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

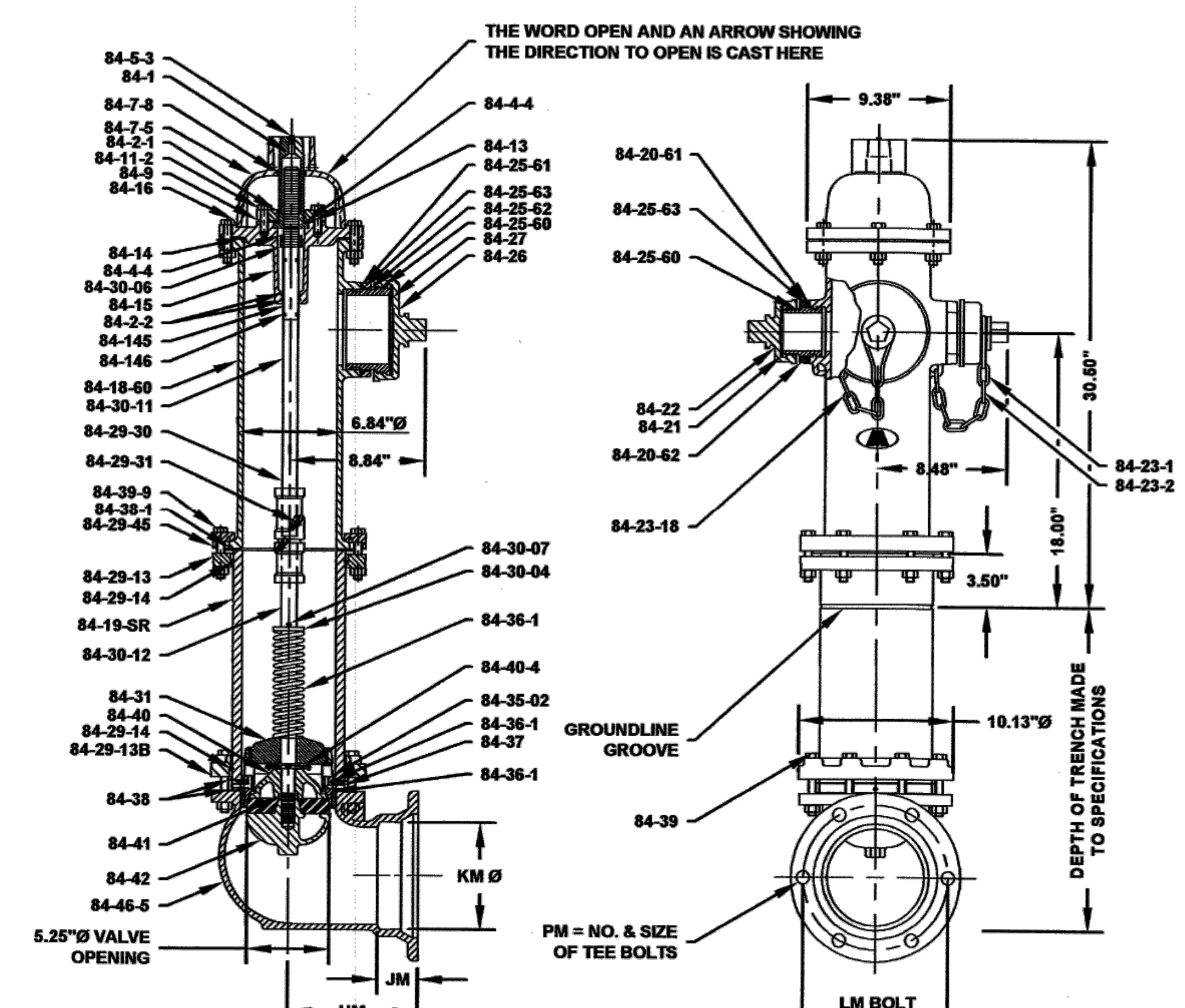
Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Full Joint Centered)
Storm Sewer, Stormwater Force Main, Reclaimed Water (2)	Water Main; 3 ft. minimum	Water Main; 12 inches is the minimum, except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 3 ft. minimum; Water Main
Vacuum Sanitary Sewer	Water Main; 10 ft. preferred 3 ft. minimum	Water Main; 12 inches preferred 6 inches minimum	Alternate 3 ft. minimum; Water Main
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4)	Water Main; 10 ft. preferred 6 ft. minimum (3)	Water Main; 12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 6 ft. minimum; Water Main
On-Site Sewage Treatment & Disposal System	10 ft. minimum	---	---

(1) Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches.
(2) Reclaimed water regulated under Part III of Chapter 62-610, F.A.C.
(3) 3 ft. for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer.
(4) Reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.

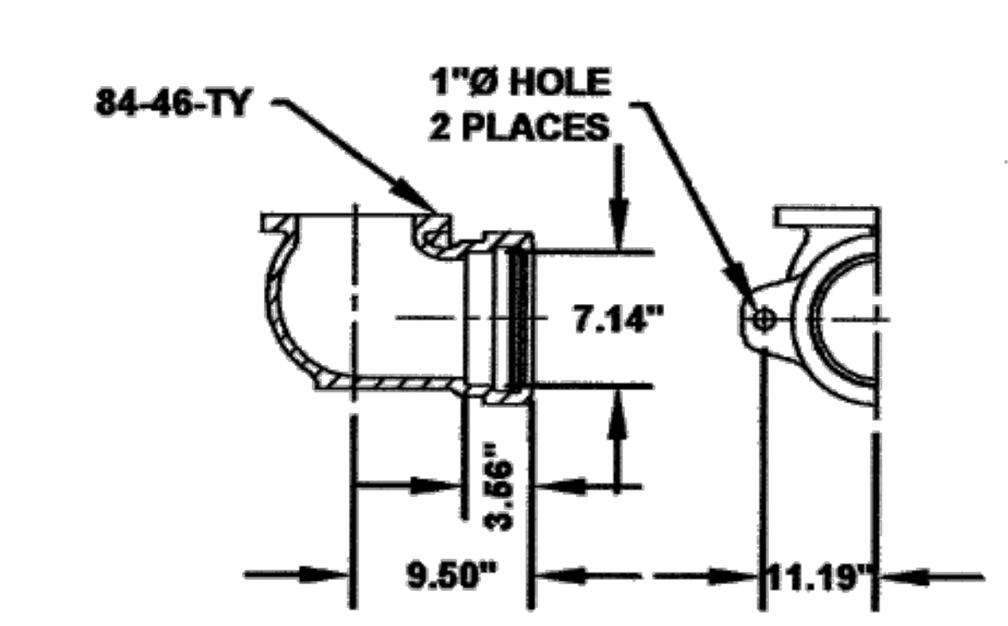
Disclaimer – This document is provided for your convenience only. Please refer to F.A.C. Rule 62-555.314 for additional construction requirements.

DEP WATER SEPARATION DETAILS

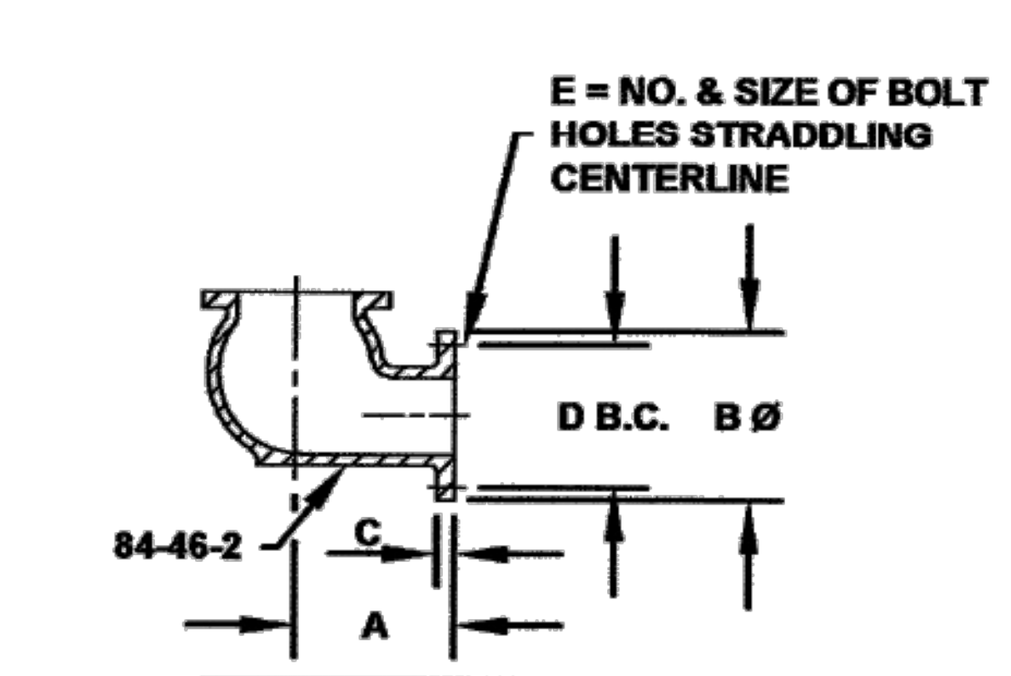
SCALE: N.T.S.



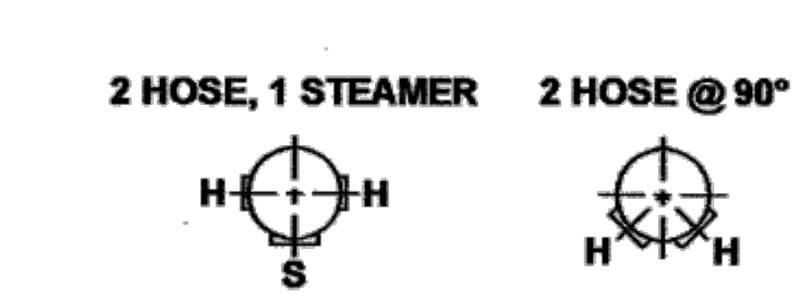
MECHANICAL JOINT BASE					
SIZE	HM	JM	KM	LM	E
4	8.50	2.50	4.91	7.50	4-¾
6	8.50	2.50	7.00	9.50	6-¾



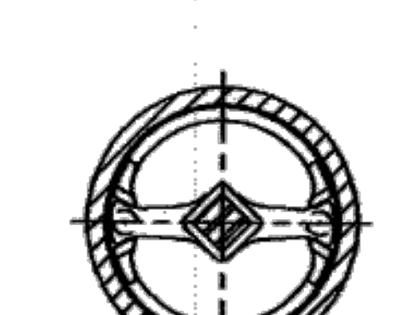
6" TYTON WITH LUGS



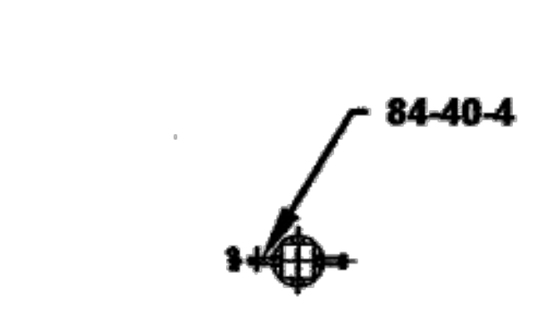
FLANGED BASE					
SIZE	A	B	C	D	E
4	8.00	9.00	0.94	7.50	8-¾
6	8.50	11.00	1.00	9.50	8-⅞



NOZZLE ARRANGEMENTS



TOP VIEW OF SEAT & DRAIN LEVER ASSEMBLY



TOP VIEW OF CLEVIS PIN & CLIP PIN USED TO SECURE HYDRANT VALVE ASSEMBLY

GENERAL NOTES:

1) SIZE AND SHAPE OF OPERATING NUT AND NUT ON CAPS, THREADING ON NOZZLES AND CAPS AND THE DIRECTION OF OPENING MADE TO SPECIFICATIONS.
2) CAP CHAINS ARE NOT FURNISHED UNLESS SPECIFIED.
3) ALL GRAY IRON IS ASTM A126 CLASS B.
4) BOLTS AND NUTS ARE RUSTPROOFED STEEL ASTM A307 OR EQUIVALENT IN ACCORDANCE WITH AWWA C502.
5) WORKING PRESSURE: 250 P.S.I. AWWA 200 P.S.I. FACTORY MUTUAL & UNDERWRITERS LAB. TEST PRESSURE: 500 P.S.I.
6) HYDRANT CONFORMS TO AWWA STANDARD C502.
7) UPPER BARREL CAN BE ROTATED 360°.
8) FACTORY MUTUAL APPROVED AND UNDERWRITERS LABORATORIES LISTED IF MARKED.

PARTS LIST			
PART NO.	QTY.	PART NAME	MATERIAL & ASTM NO.
84-1	1	OPERATING NUT	BRONZE B763 ALLOY 865
84-2-1	2	COVER O-RING	BUNA N
84-2-2	2	HOUSING O-RING	BUNA N
84-4-4	1	THRUST WASHER	NYLATRON
84-5-3	1	PIPE PLUG	STEEL
84-7-5	1	TAMPER RESISTANT COVER	DUCTILE IRON
84-7-8	1	O-RING	BUNA N
84-9	1	HOUSING COVER	GRAY IRON
84-11-2	4	COVER CAP SCREWS	SEE NOTE 4
84-13	1	COVER GASKET	FIBER
84-14	1	HOUSING GASKET	COMPOSITION RUBBER
84-15	1	HOUSING	DUCTILE IRON
84-16	6	HOUSING BOLTS & NUTS	SEE NOTE 4
84-18-60	1	UPPER BARREL	DUCTILE IRON
84-19-SR	1	LOWER BARREL	DUCTILE IRON A536
84-20-60	2	HOSE NOZZLE	BRONZE B763 ALLOY 876
84-20-61	2	HOSE NOZZLE SEAL	BUNA N
84-20-62	2	HOSE NOZZLE RETAINER	DUCTILE IRON
84-20-63	2	HOSE NOZZLE RETAINER WASHER	TEFLON
84-21	2	HOSE CAPS	GRAY IRON
84-22	2	HOSE CAP GASKETS	RUBBER
84-23-1	2	HOSE CAP CHAINS WITH S HOOK	STEEL
84-23-2	3	S HOOK	STEEL
84-23-18	1	PUMPER CAP CHAIN WITH S-HOOK	STEEL
84-25-60	1	PUMPER NOZZLE	BRONZE B763 ALLOY 867
84-25-61	1	PUMPER NOZZLE SEAL	BUNA N
84-25-62	1	PUMPER NOZZLE RETAINER	DUCTILE IRON
84-25-63	1	PUMPER NOZ RETAINER WASHER	TEFLON
84-26	1	PUMPER CAP	GRAY IRON
84-27	1	PUMPER CAP GASKET	RUBBER
84-29-13	1	BARREL FLANGE	DUCTILE IRON A536
84-29-13B	1	BASE FLANGE	DUCTILE IRON A536
84-29-14	2	SNAP RINGS	STAINLESS STEEL
84-29-30	1	ROD COUPLING	GRAY IRON
84-29-31	2	COUPLING & CLIP PINS	STAINLESS STEEL
84-29-45	1	BREAKABLE FLANGE	GRAY IRON
84-30-03	1	HYDRANT SPRING	STAINLESS STEEL
84-30-04	1	SPRING PLATE	STAINLESS STEEL
84-30-06	1	TRAVEL STOP NUT	BR0NZE B283 ALLOY 377
84-30-07	1	SPRING PLATE PIN	STAINLESS STEEL
84-30-11	1	UPPER ROD	STEEL
84-30-12	1	LOWER ROD	STEEL
84-31	1	DRAIN LEVER	BRONZE B584 ALLOY 922
84-35-02	1	HYDRANT SEAT	BRONZE B584 ALLOY 922
84-36-1	2	SEAT O-RINGS	BUNA N
84-37	1	DRAIN RING	BRONZE B763 ALLOY 876
84-38	2	DRAIN RING GASKETS	COMPOSITION RUBBER
84-38-1	1	BARREL GASKET	COMPOSITION RUBBER
84-39	8	BASE BOLTS & NUTS	STAINLESS STEEL 304
84-39-9	8	BARREL BOLTS & NUTS	SEE NOTE 4
84-40	1	VALVE TOP	GRAY IRON
84-40-4	1	VALVE TOP CLEVIS & CLIP PIN	STAINLESS STEEL
84-41	1	HYDRANT VALVE	RUBBER
84-42	1	VALVE BOTTOM	DUCTILE IRON
84-46-2	1	FLANGED BASE	DUCTILE IRON
84-46-5	1	MECHANICAL JOINT BASE	DUCTILE IRON
84-46-TY	1	TYTON BASE	DUCTILE IRON
84-145	1	ROD SLEEVE	BRONZE
84-146	2	SLEEVE O-RINGS	BUNA N

5-¼" B84B-5 AMERICAN DARLING HYDRANT WITH TAMPER PROOF COVER

SCALE: N.T.S.

DESTIN WATER USERS, INC.
14 INDUSTRIAL PARK LANE,
DESTIN, FL 32541
(850) 837-6146

NOTES:
SCALE AS SHOWN

DWU TYPICAL POTABLE WATER DETAILS

DATE:	July 11, 2023	REV #	DATE	BY	REASON
REVISION DATE:	 2023	2			
DRAWN BY:	ER	3			
REVIEWED BY:	MA/SS	4			
SHEET:	X of X				

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
14101 PANAMA CITY BEACH PARKWAY, SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-6150
ENGINEERING BUSINESS: EB-0000340
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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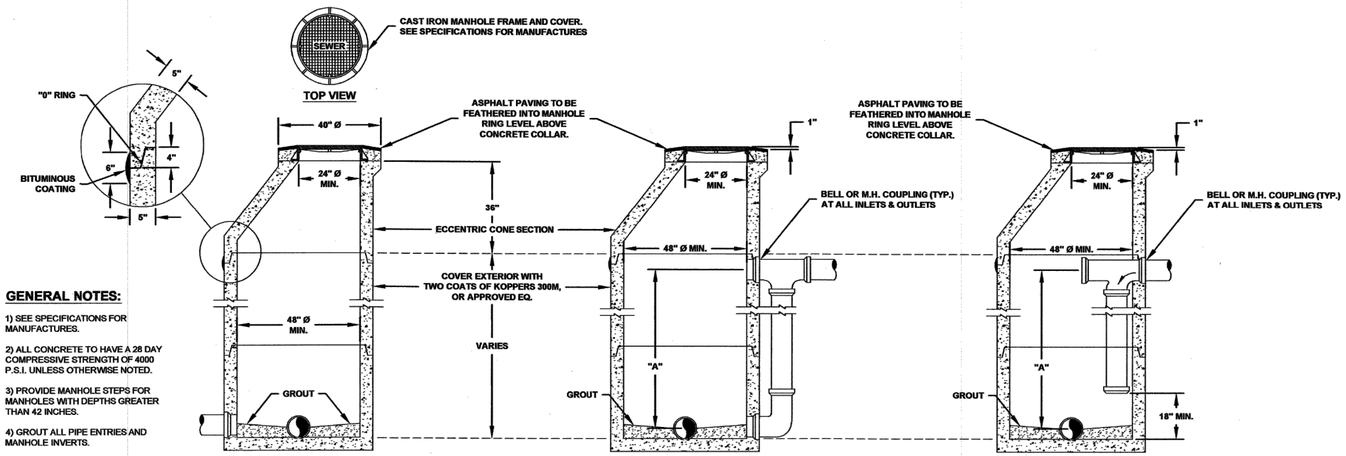
NOT RELEASED FOR CONSTRUCTION

PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

TYPICAL POTABLE WATER DETAILS

CU-505

100% SUBMITTAL



GENERAL NOTES:

1) SEE SPECIFICATIONS FOR MANUFACTURES.

2) ALL CONCRETE TO HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4000 P.S.I. UNLESS OTHERWISE NOTED.

3) PROVIDE MANHOLE STEPS FOR MANHOLES WITH DEPTHS GREATER THAN 42 INCHES.

4) GROUT ALL PIPE ENTRIES AND MANHOLE INVERTS.

5) INVERT GROUTING TO BE UNIFORM AND SMOOTH - SLOPED TO CENTER-LINE OF PIPE.

6) DROP MANHOLE SHALL BE UTILIZED AT ALL LOCATIONS WHERE DIMENSION "A" EXCEEDS 2'-0"

7) INSIDE DROPS ONLY ALLOWED WITH PRIOR AUTHORIZATION FROM DWU.

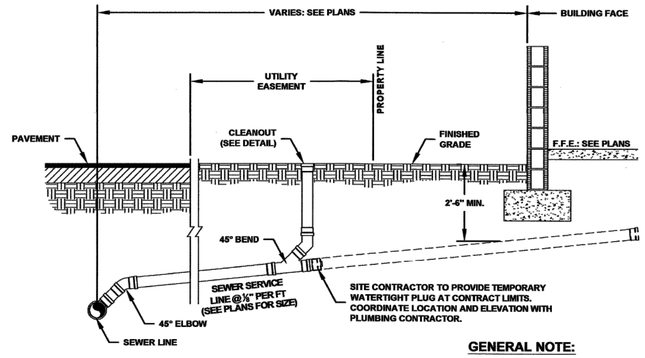
8) ANY SEWER FORCE MAINS THAT DISCHARGE INTO MANHOLES, THE MANHOLE SHALL BE COATED WITH HDPE LINER OR A SPRAY LINER APPROVED BY DWU.

STANDARD MANHOLE DETAIL

SCALE: 1" = 2'

DROP MANHOLE DETAIL

SCALE: 1" = 2'

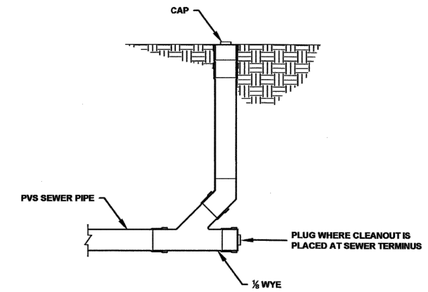


GENERAL NOTE:

1) SEWER CONNECTION TO BE MADE OF MANUFACTURED WYES. INVERT OF CONNECTION TO BE AT ELEVATION OF TOP OF MAIN WHERE ALLOWED.

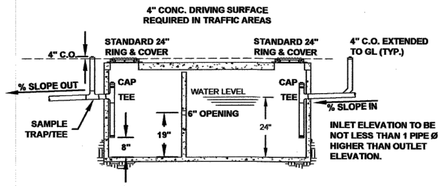
SEWER SERVICE DETAIL

SCALE: 1" = 2'



CLEANOUT DETAIL

SCALE: 1" = 1'



GENERAL NOTES:

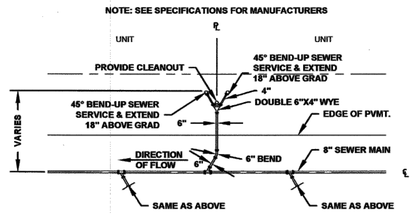
1) STRUCTURAL DESIGN OF GREASE TRAP SHALL BE IN ACCORDANCE WITH CHAPTER 10D-5 OF FLORIDA ADMINISTRATIVE CODES.

2) ACCESS FOR MONITORING THE INLET AND OUTLET PIPE FITTINGS OR BAFFLES SHALL BE PROVIDED FROM MANHOLES. CLEANOUTS SHALL BE INSTALLED BEFORE THE FIRST GREASE INTERCEPTOR AND WITHIN TWO FEET AFTER THE LAST INTERCEPTOR IN THE SERIES.

3) GREASE INTERCEPTOR (OR INTERCEPTORS) SHALL BE DESIGNED TO PRODUCE A CLARIFIED EFFLUENT ACCEPTABLE TO THE CITY OF GROVELAND STANDARDS.

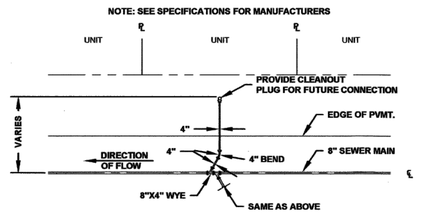
TYPICAL RESTAURANT GREASE INTERCEPTOR

SCALE: N.T.S.



DOUBLE SANITARY SEWER SERVICE CONNECTION PLAN

SCALE: 1" = 20'



SINGLE SANITARY SEWER SERVICE CONNECTION PLAN

SCALE: 1" = 20'

DESTIN WATER USERS, INC.
14 INDUSTRIAL PARK LANE,
DESTIN, FL 32541
(850) 837-6146

NOTES:
SCALE AS SHOWN

DWU TYPICAL SANITARY SEWER DETAILS

DATE:	July 11, 2023
REVISION DATE:	 2023
DRAWN BY:	ER
REVIEWED BY:	MA/BS
SHEET:	X OF X

REV #	DATE	BY	REASON
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
1410 I PANAMA CITY BEACH, FL 32413 (850) 230-0150
PANAMA CITY BEACH • DESTIN • EGLIN AFB • PANAMA CITY
PENSACOLA • PANAMA CITY BEACH • TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

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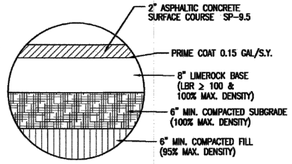
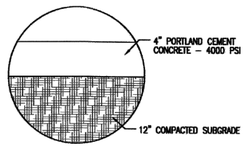
PROJECT NO:	12105.02
DESIGNED BY:	RAS
DRAWN BY:	JJ
CHK'D BY:	RLW
PROJ. MGR:	JCP
DATE:	AUGUST 2025

TYPICAL SANITARY SEWER DETAILS

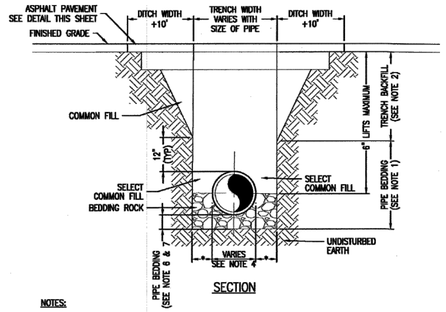
CU-506



2" ASPHALT PAVEMENT DETAIL



SIDEWALK DETAIL



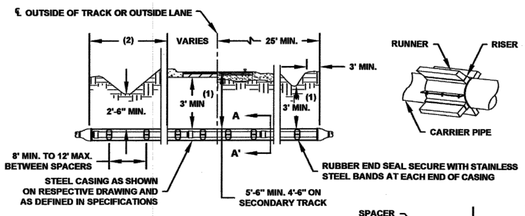
SECTION

NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 90% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180
3. USE TYPE A BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CITY.
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
5. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
6. GRAVITY SEWERS SHALL UTILIZE TYPE A BEDDING. IF REQUIRED BY THE CITY, BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER LESS THAN 15", AND 6" MINIMUM PIPE DIAMETER 16" AND LARGER.
7. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. CITY SHALL DETERMINE, IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.

PAVEMENT PATCH DETAIL

SCALE: N.T.S.



GENERAL NOTES:

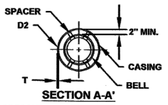
(1) VERTICAL DIMENSIONS TYPICAL FOR CASINGS

(2) WITH CURB: 6' STATE & 2' CITY ROADS MINIMUM WITHOUT CURB: 8' STATE & 4' CITY ROADS MINIMUM

(3) STEEL CASING PIPE SHALL CONFORM TO THE REQUIREMENTS OF AWWA C-200 AND ASTMA-139, GRADE B.

(4) WHEN CASING IS INSTALLED WITHOUT BENEFIT OF A PROTECTIVE COATING, AND SAID CASING IS NOT CATHODICALLY PROTECTED, THE WALL THICKNESS SHOWN SHALL BE INCREASED TO THE NEAREST STANDARD SIZE WHICH IS A MINIMUM OF 0.063" GREATER THAN THE THICKNESS SHOWN EXCEPT FOR DIAMETERS LESS THAN 12.75".

(5) FOR REFERENCE ONLY.



SECTION A-A'

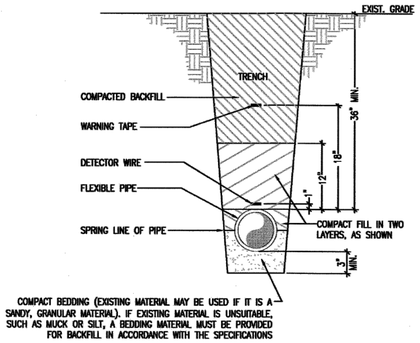
PRESSURE MAIN TO BE RESTRAINED WITH MANUFACTURERS RESTRAINED JOINTS THROUGH CASING. USE (3) SS CASING SPACER CENTERED ON EACH PIPE LENGTH. TIMBER SKIDS ARE OPTIONAL.

MINIMUM CASING SIZE AND THICKNESS

D.I.P.-M.J.	-	-	-	4"	6"	-	8"	10"	12"	14"	16"	18"	20"	-	24"	30"	36"	42"	48"
D.I.P.-P.O.	-	-	4"	-	6"	8"	10"	12"	-	14"	16"	18"	20"	24"	-	30"	36"	42"	48"
P.V.C.	-	-	4"	6"	-	8"	10"	12"	-	-	-	-	-	-	-	-	-	-	-
(3) STEEL CASING PIPE (D2)	8"(5)10"	12"	14"	16"	18"	20"	24"	24"	30"	30"	30"	30"	36"	36"	42"	48"	54"	60"	66"
WALL THICKNESS (T) ROADS	.188"	.188"	.188"	.250"	.250"	.250"	.250"	.250"	.312"	.312"	.312"	.312"	.375"	.375"	.500"	.500"	.500"	.500"	.500"
(4) WALL THICKNESS (T) R.R.	.188"	.188"	.188"	.219"	.219"	.250"	.281"	.344"	.344"	.406"	.406"	.406"	.469"	.469"	.500"	-	-	-	-

JACK AND BORE DETAIL

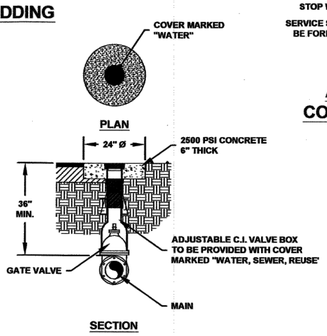
SCALE: N.T.S.



COMPACT BEDDING (EXISTING MATERIAL MAY BE USED IF IT IS A SANDY, GRANULAR MATERIAL). IF EXISTING MATERIAL IS UNSUITABLE, SUCH AS MUCK OR SILT, A BEDDING MATERIAL MUST BE PROVIDED FOR BACKFILL IN ACCORDANCE WITH THE SPECIFICATIONS

TYPICAL PIPE BEDDING

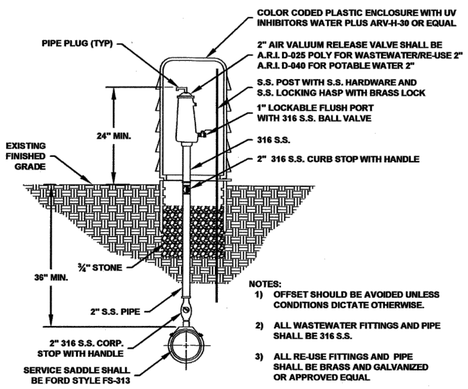
SCALE: N.T.S.



SECTION

GATE VALVE AND VALVE BOX DETAIL

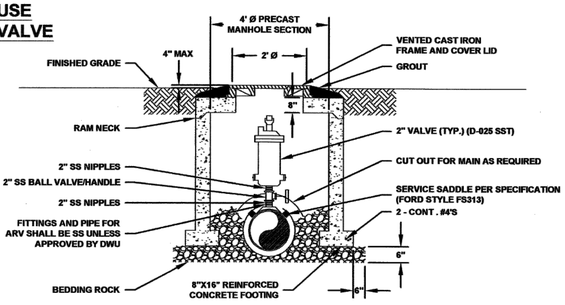
SCALE: 1" = 2'



NOTES:
1) OFFSET SHOULD BE AVOIDED UNLESS CONDITIONS DICTATE OTHERWISE.
2) ALL WASTEWATER FITTINGS AND PIPE SHALL BE 316 S.S.
3) ALL RE-USE FITTINGS AND PIPE SHALL BE BRASS AND GALVANIZED OR APPROVED EQUAL

ABOVE GROUND WASTEWATER/RE-USE COMBINATION AIR/VACUUM RELEASE VALVE

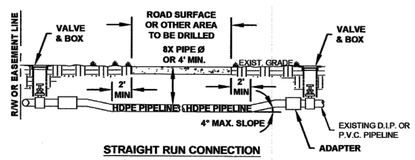
SCALE: 1" = 2'



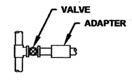
NOTES:
1) PROCAST MANHOLE OR APPROVED EQUAL
2) ALL FITTINGS TO BE 316 SS
3) IF ARV IS ON A POTABLE WATERMAIN THEN USE ARI D-040 2"

GATE VALVE AND VALVE BOX DETAIL

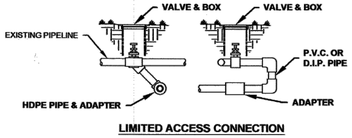
SCALE: 1" = 2'



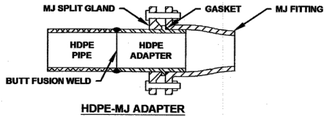
STRAIGHT RUN CONNECTION



PERPENDICULAR CONNECTION PLAN VIEW



LIMITED ACCESS CONNECTION



HDPE-MJ ADAPTER

GENERAL NOTES:

1) DIRECTIONAL DRILLS SHALL BE COMPLETED USING FPVC PIPE, DUCTILE IRON SIZE OR APPROVED EQUIVALENT.

2) ALL DIRECTIONAL DRILLS SHALL BE AT A DEPTH OF 8X PIPE DIAMETER BELOW THE ROADWAY SURFACE OR 4' WHICHEVER IS GREATER.

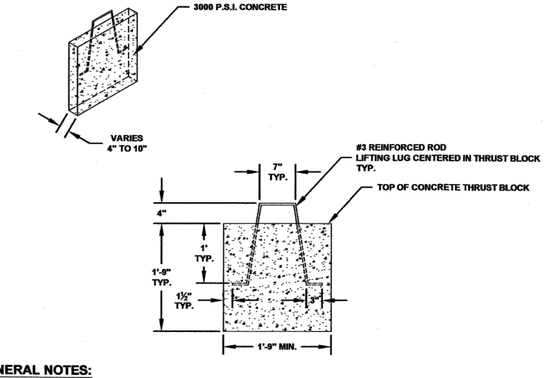
3) ALL HDPE MUST BE COLOR CODED (SAFETY BLUE-WATER, SAFETY GREEN FOR SEWER AND PANTONE PURPLE FOR RECLAIMED WATER); BUTT FUSION WELDED; AND CONNECTED WITH HDPE-MJ ADAPTER.

DIRECTIONAL DRILLING DETAIL

SCALE: N.T.S.

GATE VALVE AND VALVE BOX DETAIL

SCALE: 1" = 2'



GENERAL NOTES:

1) ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST DESTIN WATER USERS APPROVED MATERIAL SPECIFICATION MANUAL.

THRUST BLOCK DETAIL

SCALE: N.T.S.

DESTIN WATER USERS, INC.
14 INDUSTRIAL PARK LANE,
DESTIN, FL 32541
(850) 837-6148

DWU TYPICAL DETAILS

DATE:	July 11, 2023
REVISION DATE:	 2023
DRAWN BY:	ER
REVIEWED BY:	MA/SS
SHEET:	X of X

REV #	DATE	BY	REASON
1			
2			
3			
4			

NOTES: SCALE AS SHOWN

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
1410 I PANAMA CITY BEACH, FL 32413 (850) 230-0150
PANAMA CITY - DESTIN - PENSACOLA - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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NOT RELEASED FOR CONSTRUCTION

PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: AUGUST 2025

TYPICAL DETAILS

CU-507

L:\121 Okaloosa County\12105.02 Shore at Crystal Beach Park Amendment\DWG\12105.02-CU-501 – CU-507 – Misc Water and Sewer Details.dwg, Aug 13, 2025 – 4:28:52PM, slucia

100% SUBMITTAL

STORMWATER MANAGEMENT PLAN

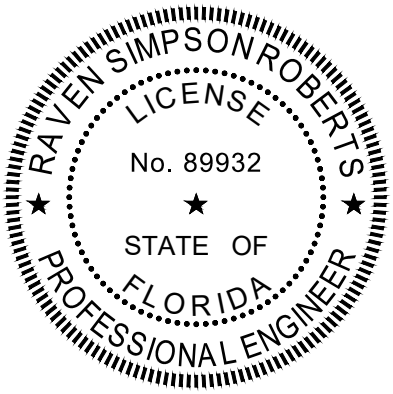
SHORES AT CRYSTAL BEACH EXPANSION

OKALOOSA COUNTY, FLORIDA

AUGUST 2025

Prepared for:

OKALOOSA COUNTY, FLORIDA



Prepared by:

Raven Roberts, PE
FL License No. 89932

Raven S. Roberts

Digitally signed by Raven S. Roberts
DN: C=US, E=rroberts@baskervilledonovan.com, CN=Raven S. Roberts
Date: 2025.08.15 12:09:01-05'00'

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927

1201 Montlimar Drive; Suite 650
Mobile, AL 36609
EB-0000340

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Operation and Maintenance 6

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Project Description

This project is for the construction of the park at the Shores at Crystal Beach. Site improvements include flexible pavement for the parking lots, striping/signage, concrete sidewalks, utilities, and stormwater infrastructures. For clarity in this report the Shores at Crystal Beach Park will be identified as Crystal Beach – West (west park) and Crystal Beach – East (east park) in order to differentiate between the two storm systems that are separated by a privately owned parcel.

Both stormwater systems will consist of storm sewer inlets and piping, and underground full retention storm chamber systems which will allow for infiltration into the existing sandy beach soils. A summary of the stormwater management is provided below for the west and east parks.

West Park

Total Area (to MHWL) = 0.99 acres
Total Disturbed Area = 0.36 acres
Impervious Area = 0.23 acres
Recovery Analysis = 5.6 hours
Treatment Required = 1,307 CF (retaining the first 1" of rainfall per Destin LDC for ERP)
Treatment Provided = 4,300 CF

East Park

Total Area (to MHWL) = 0.59 acres
Total Disturbed Area = 0.29 acres
Impervious Area = 0.17 acres
Recovery Analysis = 5.6 hours
Treatment Required = 617 CF (retaining the first 1" of rainfall per Destin LDC for ERP)
Treatment Provided = 1,700 CF

Existing Conditions

The west park site is currently partially developed with an existing covered pavilion, water and sewer utilities, sidewalks, and impervious parking areas. The majority of the site currently drains to the west toward the undeveloped area of the property and then south toward the sandy beach. A very small area of the site drains east toward the landscape buffer along the east property line.

The east park site is currently a completely undeveloped site as demolition of existing structures and utilities occurred prior to design development and survey. The undeveloped east park site currently drains toward an existing sandy swale located toward the center of the site and then south toward the sandy beach. Existing contours and flow arrows are shown on sheet C-101 in the attachments.

Due to the extremely high permeability of the soils at both locations, there is typically very little runoff with most water infiltrating before leaving the site.

Soils on site are Newhan-Corolla complex with high permeability. A report from the soil survey has been provided for the site and is attached.

A geotechnical investigation was conducted and consisted of one 35-foot deep Standard Penetration Test (SPT) borings and two 7-10-feet deep auger borings at the location of the proposed beach park in February 2022. The soils identified were classified as light brown, white sands (SP). Samples were collected from the borings for the following laboratory tests: moisture content, wash #200 sieve analysis, and falling head permeability tests. Results for the vertical and horizontal permeability were provided as 42.9 ft/day and 64.4ft/day, respectively. Groundwater was encountered at the SPT boring locations approximately 14-15 feet below existing grade at the time of drilling, which was during a period of above-normal seasonal rainfall. The geotechnical report with boring logs is attached.

The site lies within FEMA Zone VE, indicating that the site is within a coastal area with a 1% or greater chance of flooding and hosts an additional hazard associated with storm waves.

Drainage Design

The west park site is currently partially developed with an existing covered pavilion, water and sewer utilities, sidewalks, and impervious parking areas. The east park site is currently a completely undeveloped site. Neither site currently has any existing stormwater management features. Per the City of Destin Land Development Code (LDC), it is required to retain the first inch of rainfall on site for the 25-year, 24-hour storm event. The stormwater treatment volume required to meet this criterion for the west and east parks, respectively, is approximately 1,307 cf and 617 cf. However, the total treatment volume provided for the west and east parks is approximately 4,300 cf and 1,700 cf respectively, which is more than 3 times the required. This volume is conservatively provided based on the 25-year, 8-hour storm event.

The two parks are collectively divided into four basins for stormwater management. The west park consists of basins A and B and the east park consists of basins C and D which collect and drain to the underground retention chambers located at each respective park. Each basin is described below and indicated on the attached basin map.

Basin A:
Basin A includes the west area of the proposed west park parking lot. This area drains via overland sheet flow to a proposed storm inlet, structure S-1, and then northeast via a 15-inch reinforced concrete pipe (RCP), P-1, to structure S-3 before entering the storm chamber system located within Basin B. The impact to basin A includes approximately 0.17 acres of impervious area which consists of flexible pavement parking lot and a portion of the existing pavilion. Basin A is approximately 0.17 acres total.

Basin B:
Basin B includes the remaining area of the proposed parking lot toward the east of the west park. This area drains via overland sheet flow to a proposed storm inlet, structure S-2, and then north via a 15-inch RCP, P-2, to structure S-3 before entering the storm chamber system located within Basin B. The impact to basin B includes approximately 0.11 acres of impervious area which consists of flexible pavement parking lot, sidewalk, and a portion of the existing pavilion. Basin B is approximately 0.13 acres total.

Basin C:
Basin C includes the north portion of the east park parking lot. This area drains south to a proposed storm inlet, structure S-5, and then north via a 15-inch RCP, P-4, to structure S-6 before entering the storm chamber system located within Basin C. The impact to basin C includes approximately 0.113 acres of impervious area which consists of the flexible pavement parking lot. Basin C is approximately 0.12 acres total.

Basin D:
Basin D includes the remaining area of the proposed east park parking lot toward the south. This area drains via overland sheet flow to a proposed storm inlet, structure S-4, and then north via a 15-inch RCP, P-3, to structure S-5 and continuing via a 15-inch RCP before entering the storm chamber system located within Basin C. The impact to basin D includes approximately 0.048 acres of impervious area which consists of flexible pavement parking lot and a portion of the proposed restroom facility. Basin D is approximately 0.05 acres total.

There is approximately 0.15 acres of disturbed area between the two parks that is not draining to the system. This area consists primarily of the area around and encompassing the proposed, pervious, emergency access drive at west park and the boardwalk, switchbacks, and stairs located at east park. Minimal areas around the edges of the property allowing for grade tie ins also do not drain toward the system.

Underground Stormwater Retention Chambers:
The underground stormwater retention chambers used as the basis of design for ICPR modeling are the ADS Stormtech MC-7200 system. *While the contractor is not required to use this system, he/she shall ensure the system provided meets all the same requirements, storage and treatment volumes as necessary per the calculations and specifications.* The ADS Stormtech MC-7200 chambers themselves are 5-foot high corrugated, polypropylene, arch-shaped structures with an invert of 10.82 at the west park and 10.94 at the east park. The chambers will sit on a minimum 9” bed of gravel and have a minimum of 12” gravel overtopping, followed by additional fill, base, and flexible pavement to reach proposed finish grade. Modeling of the chambers was performed using ICPR and inputs and results from the model are attached.

A recovery analysis has been performed, with the chambers recovering the treatment volume within 5.6 hours. The recovery analysis calculations are attached.

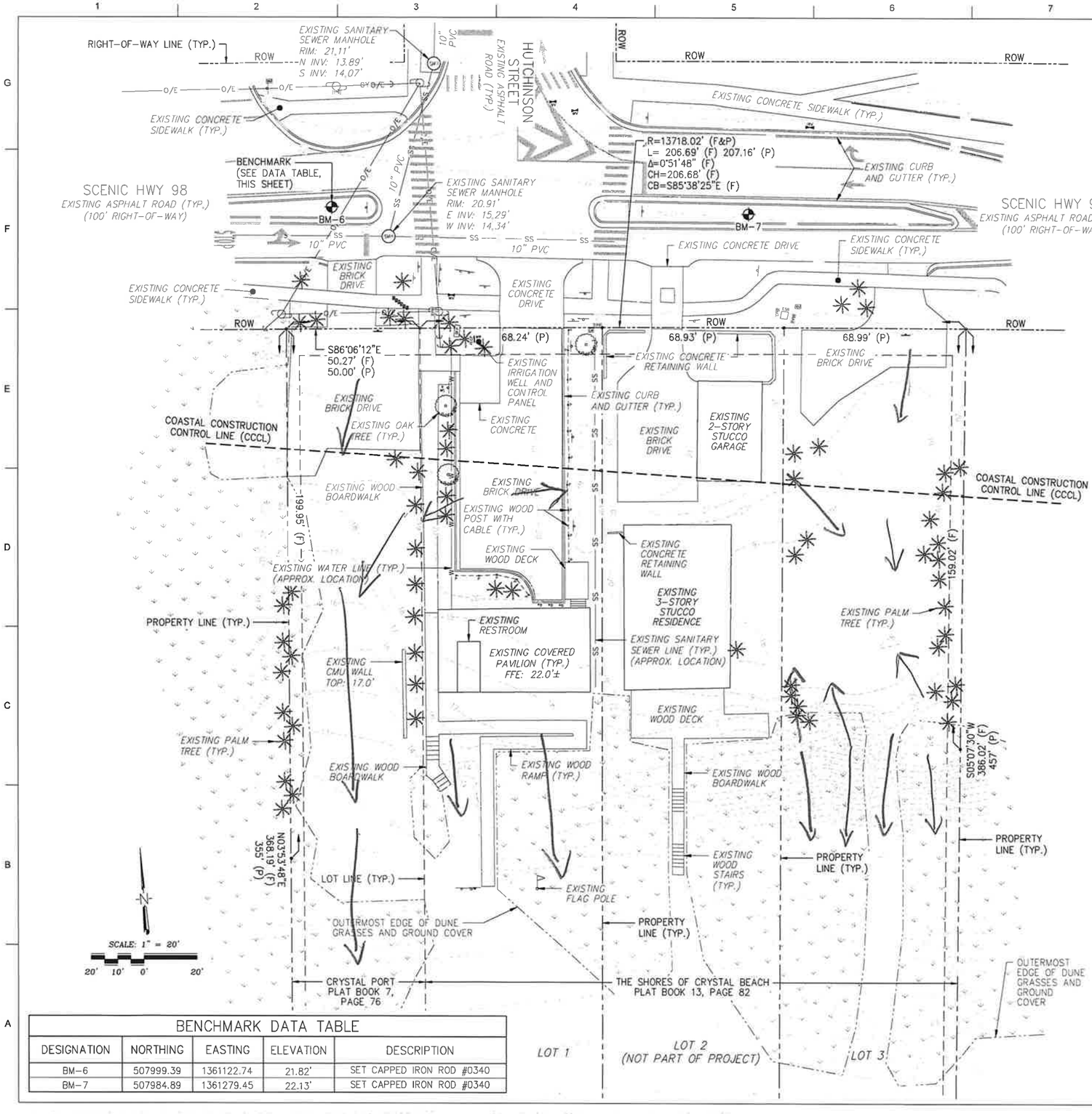
Erosion and Sediment Controls

Best management practices will be utilized during construction to minimize the potential for erosion and sedimentation. Silt fences will be installed at the limits of construction prior to the start of land disturbances. A double layer of silt fence will be provided along the entire southern border of the disturbed area of the site to prevent any additional sediment or erosion toward the coastal waters. Geotextile wattles will be provided around all proposed storm inlets once installed. A temporary gravel construction entrance will also be provided to reduce sediment tracking onto Scenic Highway 98. The erosion control facilities shall be maintained throughout the construction period until stabilization is achieved and approved by the engineer.

Operation and Maintenance

The property owner shall be responsible for maintenance and operation of the new stormwater facilities. The stormwater conveyance systems shall be inspected on a regular basis. Any deficiencies will be corrected to ensure that the system operates as designed and permitted. An additional O & M plan is attached.

Appendix A:
Basin Map



BENCHMARK DATA TABLE				
DESIGNATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM-6	507999.39	1361122.74	21.82'	SET CAPPED IRON ROD #0340
BM-7	507984.89	1361279.45	22.13'	SET CAPPED IRON ROD #0340

ABBREVIATION LEGEND

ROW OR R/W	RIGHT OF WAY
INV	INVERT
EL OR ELEV	ELEVATION
O.R.	OFFICIAL RECORDS BOOK
(P)	PLAT
(F)	FIELD
(D)	DEED
R	RADIUS
Δ	DELTA
L	LENGTH
C	CHORD
CH	CHORD BEARING

SURVEY SYMBOL LEGEND

- SET CAPPED IRON ROD #0340
- FOUND IRON ROAD AND CAP
- FOUND IRON ROD AND CAP
- FOUND CRIMP TOP PIPE
- FOUND IRON ROD
- FOUND OPEN TOP PIPE
- FOUND CONCRETE MONUMENT
- SET NAIL AND DISK
- RIGHT OF WAY
- PROPERTY LOT LINE
- PROPERTY LINE
- MEAN HIGH WATER LINE
- COASTAL CONSTRUCTION CONTROL LINE (CCCL)
- LANDSCAPE BUFFER SETBACK
- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- SIGN (SINGLE SUPPORT)
- SIGN (MULTI SUPPORT)
- WOODEN POST CONNECTION CABLE
- WOODEN POST
- BOLLARD
- DUNE GRASS
- TREE – OAK
- TREE – PINE
- FLAG POLE
- SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- IRRIGATION VALVE
- WATER LINE
- WATER BACKFLOW PREVENTOR
- WATER VALVE
- WATER METER
- WATER SHOWER STATION
- OVERHEAD ELECTRICAL LINE
- GUYWIRE
- ELECTRICAL POWER POLE
- ELECTRICAL WIRE PULL BOX
- ELECTRICAL SERVICE BOX
- TELEPHONE WIRE PULL BOX
- FIBER OPTIC WIRE PULL BOX
- CABLE TV WIRE PULL BOX

SURVEYOR'S NOTES:

1. NORTH AND THE SURVEY DATUM SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) AND EXISTING FIELD MONUMENTATION.
2. THE ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. NO TITLE SEARCH, TITLE OPINION, OR ABSTRACT WAS PERFORMED BY NOR PROVIDED TO THIS FIRM FOR THE SUBJECT PROPERTY. THERE MAY BE DEEDS OF RECORD, UNRECORDED DEEDS, EASEMENTS, RIGHTS-OF-WAY, BUILDING SETBACKS, RESTRICTIVE COVENANTS OR OTHER INSTRUMENTS WHICH COULD AFFECT THE BOUNDARIES OR USE OF THE SUBJECT PROPERTY.
4. THE FIELD SURVEY SHOWN HEREON WAS PERFORMED IN AUGUST 2021 AND RECORDED IN FIELD BOOK 21-06, PAGES 12-18.
5. THE ABOVE GROUND UTILITIES SHOWN HEREON WERE BASED ON VISIBLE FIELD LOCATION. ANY SUBSURFACE UTILITIES SHOWN HEREIN SHOULD BE VERIFIED BY THE CONTRACTOR.
6. ALL DISTANCES ARE EXPRESSED IN FEET AND DECIMAL PARTS THEREOF.
7. SOIL BORING AND TEST PIT LOGS AND LABORATORY DATA CAN BE FOUND IN THE GEOTECHNICAL REPORT.

PROPERTY DESCRIPTIONS:

(O.R. BOOK 3502, PAGE 1397)
UNITS A, B, C, D, E, AND COMMON AREA OF CRYSTAL PORT, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 7, PAGE 76, OF THE PUBLIC RECORD OF OKALOOSA COUNTY, FLORIDA.

AND ALSO:

(O.R. BOOK 2517, PAGE 3684)
LOT 1, THE SHORES OF CRYSTAL BEACH, A PLANNED UNIT DEVELOPMENT, A RESUBDIVISION OF A PORTION OF BLOCK B, CRYSTAL BEACH SUBDIVISION ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 13, PAGE 82 OF THE PUBLIC RECORD OF OKALOOSA COUNTY, FLORIDA.

AND ALSO:

(O.R. BOOK 3506, PAGE 695)
LOT 3, THE SHORES OF CRYSTAL BEACH, A PLANNED UNIT DEVELOPMENT, A RESUBDIVISION OF A PORTION OF BLOCK B, CRYSTAL BEACH SUBDIVISION ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 13, PAGE 82 OF THE PUBLIC RECORD OF OKALOOSA COUNTY, FLORIDA.
PARCEL ID NO.
00-2S-22-0584-0000-0030

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
14191 PANAMA CITY BEACH PARKWAY, SUITE 110.
PANAMA CITY BEACH, FL 32413 (850) 230-6150
FLORIDA CERTIFICATE OF AUTHORIZATION #3591
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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NOT RELEASED FOR CONSTRUCTION

PROJECT NO. 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHKD BY: RLW
PROJ. MGR: JCP
DATE: JULY 2025

EXISTING CONDITIONS

C-101

100% SUBMITTAL

NOTE:

SEE SHEET C-107 FOR GRADING AND STORM DRAINAGE NOTES.

S-XX DENOTES STORM DRAINAGE STRUCTURE

P-X DENOTES STORM DRAINAGE PIPE

BM-6

BM-7

BENCHMARK (SEE DATA TABLE, SHT. C-101)

SCENIC HWY 98

MATCH EXISTING (20.21±)

MATCH EXISTING (20.72±)

MATCH EXISTING (20.67±)

MATCH EXISTING (20.68±)

MATCH EXISTING (20.68±)

CONCRETE SIDEWALK (TYP.)

MATCH EXISTING (20.63±)

MATCH EXISTING (20.13±)

MATCH EXISTING (20.94±)

MATCH EXISTING (21.17±)

10' (MIN.) FRONT LANDSCAPE BUFFER (TYP.)

MATCH EXISTING (21.22±)

MATCH EXISTING (20.75±)

MATCH EXISTING (20.66±)

MATCH EXISTING (20.72±)

MATCH EXISTING (20.53±)

MATCH EXISTING (20.40±)

MATCH EXISTING (20.33±)

MATCH EXISTING (20.42±)

MATCH EXISTING (20.36±)

MATCH EXISTING (20.72±)

MATCH EXISTING (20.53±)

MATCH EXISTING (20.04±)

MATCH EXISTING (20.74±)

20.58

20.41

20.45

ROW

20.20

20.00

20.16

20.11

19.97

19.94

20.13

MATCH EXISTING (20.05±)

LANDSCAPE AREA (TYP.)

IRRIGATION WELL AND ELECTRICAL CONTROL PANEL

CONCRETE RIBBON CURB (TYP.)

10' (MIN.) FRONT LANDSCAPE BUFFER (TYP.)

ADS STORM TECH CHAMBER SYSTEM (TYP.)(SEE SHT. C-107, NOTE 6)

CONCRETE RIBBON CURB (TYP.)

20.02

20.07

19.79

19.79

19.79

CONC: 20.12
ASP: 19.79

CONC: 20.12
ASP: 19.79

CONCRETE RIBBON CURB (TYP.)

ADS STORM TECH CHAMBER SYSTEM (TYP.)(SEE SHT. C-107, NOTE 6)

5' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)

LANDSCAPE AREA (TYP.)

CONCRETE SIDEWALK (TYP.)

COASTAL CONSTRUCTION CONTROL LINE (CCCL)

EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT (SEE PAVEMENT SECTION, C-300)

FDOT TYPE 8 STORMDRAIN MANHOLE WITH WEEP HOLE AND WEIR (TYP.) (SEE SHT. C-107, NOTE 6)

S-3

P-2

STORMDRAIN PIPE (TYP.)

S-6

P-4

STORMDRAIN PIPE (TYP.)

S-5

WEST ASPHALT PARKING LOT (SEE PAVEMENT SECTION, C-300)

CONCRETE SIDEWALK (TYP.)

6' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)

EXISTING WATER LINE (TYP.) (APPROX. LOCATION)

12" CONCRETE RIBBON CURB

PROPERTY LINE (TYP.)

20.28

PROPERTY LINE (TYP.)

CONC: 20.40
ASP: 20.07

CONC: 20.40
ASP: 20.07

5' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)

10' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)

P-1

P-3

CONCRETE SIDEWALK (TYP.)

S-1

S-2

BOLLARD (TYP.)

LANDSCAPE AREA (TYP.)

FDOT TYPE C GRATE INLET (TYP.) (SEE DETAILS, SHTS. C-513 THRU C-515)

MATCH EXISTING (TYP.)

ASP: 19.04

ASP: 18.28

ASP: 18.40

ASP: 19.18

BIKE RACK

CONC: 20.58
ASP: 20.25

CONC: 20.58
ASP: 20.25

20.46

19.46

FDOT TYPE C GRATE INLET (TYP.) (SEE DETAILS, SHTS. C-513 THRU C-515)

WATER SERVICE WITH VALVES, BACKFLOW PREVENTOR AND WATER METER (TYP.)

SANITARY SEWER LINE WITH CLEANOUTS (TYP.)

BOLLARD (TYP.)

CONC: 21.00
ASP: 20.67

20.09

20.02

21

19.88

20.89

21.26

20.26

BIKE RACK

RESTROOM FACILITY FFE: 21.50 (SEE ARCHITECTURAL PLANS)

21.38

21.48

21.26

20.26

PROPERTY LINE (TYP.)

LANDSCAPE AREA (TYP.)

20.47

20.80

21.00

21.38

21.00

20.38

20.50

PUBLIC SHOWER WITH FOOT WASH (TYP.)

20.88

CONCRETE SIDEWALK

WOODEN DUNE WALKOVER (TYP.) (SEE STRUCTURAL PLANS)

GEOGRID EMERGENCY VEHICLE BEACH ACCESS DRIVE (SEE PAVEMENT SECTION, C-300)

17.80

WOODEN STAIRS (TYP.) (SEE STRUCTURAL PLANS)

WOODEN ADA RAMP (TYP.) (SEE STRUCTURAL PLANS)

BOLLARD (TYP.)

PROPERTY LINE (TYP.)

EXISTING SANITARY SEWER LINE (TYP.) (APPROX. LOCATION)

A

B

C

D

Imp. Area=0.14AC

Total Area = 0.17AC

Imp. Area=0.11AC

Total Area = 0.13AC

Total Area D = 0.05AC
Imp. Area=0.048AC

Imp. Area=0.15AC

Total Area =0.12AC

SCALE: 1" = 10'

10' 5' 0' 10'

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
14151 PANAMA CITY BEACH PARKWAY SUITE 110
PANAMA CITY BEACH FL 32413 (850) 230-0150
PENSACOLA • PANAMA CITY BEACH • FAU / MASSFF - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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NOT RELEASED FOR CONSTRUCTION

PROJECT NO 12105.02

DESIGNED BY RAS

DRAWN BY JJ

CHKD BY RLW

PROJ. MGR JCP

DATE AUGUST 2025

GRADING AND STORM DRAINAGE PLAN

C-105

100% SUBMITTAL

Appendix B:
ERP Calculations

Crystal Beach
Conveyance Calculations
8/6/2025

Basin	Total Area (Ac.)	Impervious Area (Ac.)	Pervious Area (Ac.)	Weighted C	Tc (min)	I_{10}	$Q_{10\ yr}$= CIA (cfs)	I_{25}	$Q_{25\ yr}$= CIA (cfs)	I_{100}	$Q_{100\ yr}$= CIA (cfs)
A	0.17	0.14	0.03	0.82	10	7.38	1.03	8.12	1.13	9.80	1.36
B	0.13	0.11	0.02	0.83	10	7.38	0.80	8.12	0.88	9.80	1.06
C	0.12	0.11	0.01	0.91	10	7.38	0.80	8.12	0.88	9.80	1.07
D	0.05	0.05	0.00	0.92	10	7.38	0.34	8.12	0.37	9.80	0.45

****Results:**

STORM DRAINAGE PIPE DATA TABLE

Pipe No. P-X	Size (In)	Type	Slope (%)	Q_{25}	Q_{cap}	% Capacity
P-1	15	RCP	0.5	1.13	4.96	23%
P-2	15	RCP	0.5	0.88	4.96	18%
P-3	15	RCP	0.5	0.37	4.96	18%
P-4	15	RCP	0.9	1.26	4.96	25%

B2

Crystal Beach - West

Required Treatment Volume

0.36 Acres = 15681.6sf

Per Destin LDC 10.03.02 retain first 1" of rainfall

$15681.6\,sf \times \frac{1''}{12''/ft} = 1306.8\,cf$

Recovery

5' chamber Kv = 42.9 ft/d F.S.2 = 21.45 ft/d

$24\,\frac{hr}{d} \times 5'/21.45\,ft/d = 5.6\,hrs$

Crystal Beach - East

Required Treatment Volume

0.17 Acres = 7405.2sf

$7405.2\,sf \times \frac{1''}{12''/ft} = 617.1\,cf$

Recovery

5' chamber Kv = 42.9 ft/d F.S.2 = 21.45 ft/d

$24\,hr \times 5'/21.45\,ft/d = 5.6\,hrs$

Project:

Chamber Model -	MC-7200	
Units -	Imperial	
Number of Chambers -	10	
Number of End Caps -	4	
Voids in the stone (porosity) -	40	%
Base of Stone Elevation -	10.94	ft
Amount of Stone Above Chambers -	12	in
Amount of Stone Below Chambers -	9	in
Area of system -	750	sf Min. Area - 734 sf min. area

ADS StormTech™

☑ Include Perimeter Stone in Calculations

☑ Click for Stage Area Data

☐ Click to Invert Stage Area Data

Click Here for Metric

StormTech MC-7200 Cumulative Storage Volumes

Height of System (inches)	Incremental Single Chamber (cubic feet)	Incremental Total Chamber (cubic feet)	Incremental Stone (cubic feet)	Incremental Ch & St (cubic feet)	Cumulative Chamber (cubic feet)	Elevation (feet)	Cumulative System (cubic feet)	Elevation (feet)
81	0.00	0.00	0.00	0.00	25.00	25.00	3175.32	17.69
80	0.00	0.00	0.00	0.00	25.00	25.00	3150.32	17.61
79	0.00	0.00	0.00	0.00	25.00	25.00	3125.32	17.52
78	0.00	0.00	0.00	0.00	25.00	25.00	3100.32	17.44
77	0.00	0.00	0.00	0.00	25.00	25.00	3075.32	17.36
76	0.00	0.00	0.00	0.00	25.00	25.00	3050.32	17.27
75	0.00	0.00	0.00	0.00	25.00	25.00	3025.32	17.19
74	0.00	0.00	0.00	0.00	25.00	25.00	3000.32	17.11
73	0.00	0.00	0.00	0.00	25.00	25.00	2975.32	17.02
72	0.00	0.00	0.00	0.00	25.00	25.00	2950.32	16.94
71	0.00	0.00	0.00	0.00	25.00	25.00	2925.32	16.86
70	0.00	0.00	0.00	0.00	25.00	25.00	2900.32	16.77
69	0.06	0.01	0.59	0.05	24.74	25.39	2875.32	16.69
68	0.19	0.03	1.90	0.14	24.19	26.22	2849.93	16.61
67	0.28	0.05	2.75	0.21	23.82	26.78	2823.71	16.52
66	0.36	0.07	3.57	0.26	23.47	27.30	2796.93	16.44
65	0.46	0.08	4.58	0.33	23.03	27.95	2769.63	16.36
64	0.74	0.11	7.42	0.42	21.86	29.70	2741.68	16.27
63	1.10	0.13	10.96	0.53	20.40	31.90	2711.98	16.19
62	1.32	0.16	13.18	0.64	19.47	33.30	2680.08	16.11
61	1.50	0.19	14.98	0.75	18.71	34.44	2646.78	16.02
60	1.65	0.22	16.54	0.87	18.03	35.45	2612.34	15.94
59	1.79	0.25	17.94	0.99	17.43	36.36	2576.89	15.86
58	1.92	0.28	19.20	1.10	16.88	37.18	2540.53	15.77
57	2.04	0.30	20.37	1.21	16.37	37.95	2503.36	15.69
56	2.15	0.33	21.45	1.31	15.89	38.66	2465.41	15.61
55	2.25	0.35	22.48	1.42	15.44	39.34	2426.75	15.52
54	2.34	0.38	23.43	1.53	15.01	39.98	2387.41	15.44
53	2.43	0.41	24.33	1.64	14.61	40.58	2347.43	15.36
52	2.52	0.44	25.19	1.76	14.22	41.17	2306.85	15.27
51	2.60	0.47	26.01	1.88	13.85	41.73	2265.68	15.19
50	2.68	0.50	26.78	1.98	13.49	42.26	2223.95	15.11
49	2.75	0.52	27.53	2.08	13.16	42.77	2181.69	15.02
48	2.82	0.54	28.23	2.18	12.84	43.25	2138.92	14.94
47	2.89	0.57	28.91	2.27	12.53	43.71	2095.68	14.86
46	2.96	0.59	29.56	2.35	12.23	44.15	2051.97	14.77
45	3.02	0.61	30.19	2.44	11.95	44.58	2007.82	14.69
44	3.08	0.63	30.79	2.53	11.67	44.99	1963.24	14.61
43	3.14	0.64	31.36	2.57	11.43	45.36	1918.25	14.52
42	3.19	0.68	31.92	2.71	11.15	45.78	1872.89	14.44
41	3.25	0.70	32.45	2.80	10.90	46.15	1827.12	14.36
40	3.30	0.72	32.96	2.89	10.66	46.51	1780.97	14.27
39	3.35	0.74	33.46	2.97	10.43	46.86	1734.45	14.19
38	3.39	0.76	33.93	3.06	10.20	47.19	1687.60	14.11
37	3.44	0.79	34.39	3.14	9.99	47.52	1640.40	14.02
36	3.48	0.80	34.83	3.21	9.78	47.82	1592.88	13.94
35	3.53	0.82	35.25	3.28	9.59	48.12	1545.06	13.86
34	3.57	0.84	35.66	3.35	9.39	48.41	1496.94	13.77
33	3.61	0.85	36.06	3.41	9.22	48.68	1448.53	13.69
32	3.64	0.86	36.43	3.44	9.05	48.92	1399.85	13.61
31	3.68	0.89	36.80	3.56	8.86	49.21	1350.93	13.52
30	3.71	0.90	37.15	3.62	8.69	49.46	1301.72	13.44
29	3.75	0.92	37.49	3.67	8.54	49.69	1252.26	13.36
28	3.78	0.92	37.81	3.68	8.40	49.89	1202.56	13.27
27	3.81	0.94	38.12	3.77	8.24	50.14	1152.67	13.19
26	3.84	0.96	38.42	3.83	8.10	50.35	1102.53	13.11
25	3.87	0.97	38.70	3.87	7.97	50.55	1052.19	13.02
24	3.90	0.98	38.97	3.93	7.84	50.74	1001.64	12.94
23	3.92	0.97	39.23	3.88	7.75	50.87	950.90	12.86
22	3.95	1.00	39.48	4.01	7.60	51.10	900.03	12.77
21	3.97	1.01	39.72	4.04	7.49	51.26	848.93	12.69
20	3.99	1.02	39.95	4.08	7.39	51.42	797.67	12.61
19	4.02	1.03	40.16	4.12	7.29	51.57	746.26	12.52
18	4.04	1.04	40.36	4.15	7.19	51.71	694.69	12.44
17	4.06	1.05	40.55	4.19	7.10	51.84	642.98	12.36
16	4.07	1.05	40.74	4.22	7.02	51.97	591.14	12.27
15	4.09	1.05	40.91	4.20	6.96	52.06	539.16	12.19
14	4.11	1.06	41.07	4.23	6.88	52.18	487.10	12.11
13	4.12	1.08	41.22	4.30	6.79	52.31	434.92	12.02
12	4.14	1.08	41.37	4.33	6.72	52.42	382.61	11.94
11	4.15	1.09	41.50	4.35	6.66	52.51	330.19	11.86
10	4.17	1.11	41.71	4.43	6.55	52.68	277.68	11.77
9	0.00	0.00	0.00	0.00	25.00	25.00	225.00	11.69
8	0.00	0.00	0.00	0.00	25.00	25.00	200.00	11.61
7	0.00	0.00	0.00	0.00	25.00	25.00	175.00	11.52
6	0.00	0.00	0.00	0.00	25.00	25.00	150.00	11.44
5	0.00	0.00	0.00	0.00	25.00	25.00	125.00	11.36
4	0.00	0.00	0.00	0.00	25.00	25.00	100.00	11.27
3	0.00	0.00	0.00	0.00	25.00	25.00	75.00	11.19
2	0.00	0.00	0.00	0.00	25.00	25.00	50.00	11.11
1	0.00	0.00	0.00	0.00	25.00	25.00	25.00	11.02

Stage Area Data

Depth (feet)	Elevation (feet)	Area (ft²)	Area (acres)
0.00	10.94	300.00	0.0069
0.08	11.02	300.00	0.0069
0.17	11.11	300.00	0.0069
0.25	11.19	300.00	0.0069
0.33	11.27	300.00	0.0069
0.42	11.36	300.00	0.0069
0.50	11.44	300.00	0.0069
0.58	11.52	300.00	0.0069
0.67	11.61	300.00	0.0069
0.75	11.69	300.00	0.0069
0.83	11.77	632.18	0.0145
0.92	11.86	630.14	0.0145
1.00	11.94	629.01	0.0144
1.08	12.02	627.76	0.0144
1.17	12.11	626.11	0.0144
1.25	12.19	624.77	0.0143
1.33	12.27	623.65	0.0143
1.42	12.36	622.13	0.0143
1.50	12.44	620.52	0.0142
1.58	12.52	618.82	0.0142
1.67	12.61	616.99	0.0142
1.75	12.69	615.10	0.0141
1.83	12.77	613.17	0.0141
1.92	12.86	610.46	0.0140
2.00	12.94	608.88	0.0140
2.08	13.02	606.55	0.0139
2.17	13.11	604.14	0.0139
2.25	13.19	601.64	0.0138
2.33	13.27	598.72	0.0137
2.42	13.36	596.32	0.0137
2.50	13.44	593.52	0.0136
2.58	13.52	590.57	0.0136
2.67	13.61	587.08	0.0135
2.75	13.69	584.12	0.0134
2.83	13.77	580.91	0.0133
2.92	13.86	577.44	0.0133
3.00	13.94	573.89	0.0132
3.08	14.02	570.22	0.0131
3.17	14.11	566.32	0.0130
3.25	14.19	562.30	0.0129
3.33	14.27	558.14	0.0128
3.42	14.36	553.80	0.0127
3.50	14.44	549.31	0.0126
3.58	14.52	544.33	0.0125
3.67	14.61	539.87	0.0124
3.75	14.69	534.92	0.0123
3.83	14.77	529.81	0.0122
3.92	14.86	524.50	0.0120
4.00	14.94	518.97	0.0119
4.08	15.02	513.18	0.0118
4.17	15.11	507.11	0.0116
4.25	15.19	500.74	0.0115
4.33	15.27	494.07	0.0113
4.42	15.36	486.99	0.0112
4.50	15.44	479.76	0.0110
4.58	15.52	472.04	0.0108
4.67	15.61	463.90	0.0106
4.75	15.69	455.39	0.0105
4.83	15.77	446.14	0.0102
4.92	15.86	436.28	0.0100
5.00	15.94	425.42	0.0098
5.08	16.02	413.31	0.0095
5.17	16.11	399.57	0.0092
5.25	16.19	382.75	0.0088
5.33	16.27	356.43	0.0082
5.42	16.36	335.40	0.0077
5.50	16.44	327.62	0.0075
5.58	16.52	321.30	0.0074
5.67	16.61	314.67	0.0072
5.75	16.69	304.65	0.0070
5.83	16.77	300.00	0.0069
5.92	16.86	300.00	0.0069
6.00	16.94	300.00	0.0069
6.08	17.02	300.00	0.0069
6.17	17.11	300.00	0.0069
6.25	17.19	300.00	0.0069
6.33	17.27	300.00	0.0069
6.42	17.36	300.00	0.0069
6.50	17.44	300.00	0.0069
6.58	17.52	300.00	0.0069
6.67	17.61	300.00	0.0069

Simple Basin: Post Dev

Scenario:	Scenario1
Node:	storm chamber
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	10.0000 min
Max Allowable Q:	0.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	0.3600 ac
Curve Number:	89.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	

Comment:

Simple Basin: Pre Dev

Scenario:	Scenario1
Node:	Groundwater
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	10.0000 min
Max Allowable Q:	0.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	0.3600 ac
Curve Number:	89.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	

Comment:

Node: Groundwater

Scenario:	Scenario1
Type:	Time/Stage
Base Flow:	0.00 cfs
Initial Stage:	6.00 ft
Warning Stage:	7.00 ft
Boundary Stage:	

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	6.00
0	0	0	999.0000	6.00

Comment:

Node: storm chamber

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 10.82 ft
Warning Stage: 16.84 ft

Stage [ft]	Area [ac]	Area [ft2]
10.82	0.0098	427
10.90	0.0098	427
10.99	0.0098	427
11.07	0.0098	427
11.15	0.0098	427
11.24	0.0098	427
11.32	0.0098	427
11.40	0.0098	427
11.49	0.0098	427
11.57	0.0098	427
11.65	0.0192	836
11.74	0.0192	836
11.82	0.0191	832
11.90	0.0191	832
11.99	0.0190	828
12.07	0.0190	828
12.15	0.0190	828
12.24	0.0189	823
12.32	0.0189	823
12.40	0.0188	819
12.49	0.0188	819
12.57	0.0187	815
12.65	0.0187	815
12.74	0.0186	810
12.82	0.0185	806
12.90	0.0185	806
12.99	0.0184	802
13.07	0.0183	797
13.15	0.0183	797
13.24	0.0182	793
13.32	0.0181	788
13.40	0.0180	784

Stage [ft]	Area [ac]	Area [ft2]
13.49	0.0179	780
13.57	0.0178	775
13.65	0.0177	771
13.74	0.0176	767
13.82	0.0175	762
13.90	0.0174	758
13.99	0.0173	754
14.07	0.0172	749
14.15	0.0171	745
14.24	0.0170	741
14.32	0.0168	732
14.40	0.0167	727
14.49	0.0166	723
14.57	0.0164	714
14.65	0.0163	710
14.74	0.0161	701
14.82	0.0160	697
14.90	0.0158	688
14.99	0.0156	680
15.07	0.0155	675
15.15	0.0153	666
15.24	0.0151	658
15.32	0.0149	649
15.40	0.0147	640
15.49	0.0144	627
15.57	0.0142	619
15.65	0.0139	605
15.74	0.0136	592
15.82	0.0133	579
15.90	0.0130	566
15.99	0.0126	549
16.07	0.0121	527
16.15	0.0114	497
16.24	0.0108	470
16.32	0.0106	462
16.40	0.0104	453
16.49	0.0103	449
16.57	0.0100	436
16.65	0.0098	427
16.74	0.0098	427
16.82	0.0098	427
16.90	0.0098	427
16.99	0.0098	427
17.07	0.0098	427
17.15	0.0098	427
17.24	0.0098	427
17.32	0.0098	427
17.40	0.0098	427
17.49	0.0098	427

Stage [ft]	Area [ac]	Area [ft2]
17.57	0.0098	427

Comment:

Rating Curve Link: infiltration

Scenario: Scenario1
From Node: storm chamber
To Node: Groundwater
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
Vertical drawdown	10.95	storm chamber	10.82	storm chamber

Comment:

Simulation: FDOT 100yr - 24hr

Scenario: Scenario1
Run Date/Time: 8/6/2025 9:45:24 AM
Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Reference ET Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:
Green-Ampt Set:
Vertical Layers Set:
Impervious Set:
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:
Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6	ET for Manual Basins:	False
Over-Relax Weight Fact:	0.5 dec		
dZ Tolerance:	0.0010 ft	Smp/Man Basin Rain Opt:	Global
Max dZ:	1.0000 ft	OF Region Rain Opt:	Global
Link Optimizer Tol:	0.0001 ft	Rainfall Name:	~FDOT-24
		Rainfall Amount:	13.44 in
Edge Length Option:	Automatic	Storm Duration:	24.0000 hr
Dflt Damping (2D):	0.0000 ft	Dflt Damping (1D):	0.0000 ft
Min Node Srf Area (2D):	100 ft2	Min Node Srf Area (1D):	100 ft2
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment:

Simulation: FDOT 25yr-24hr

Scenario: Scenario1
Run Date/Time: 8/6/2025 9:45:33 AM

Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Reference ET Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:
Green-Ampt Set:
Vertical Layers Set:
Impervious Set:
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:
Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6	ET for Manual Basins:	False
Over-Relax Weight Fact:	0.5 dec		
dZ Tolerance:	0.0010 ft	Smp/Man Basin Rain Opt:	Global
Max dZ:	1.0000 ft	OF Region Rain Opt:	Global
Link Optimizer Tol:	0.0001 ft	Rainfall Name:	~FDOT-24
		Rainfall Amount:	10.80 in
Edge Length Option:	Automatic	Storm Duration:	24.0000 hr
Dflt Damping (2D):	0.0000 ft	Dflt Damping (1D):	0.0000 ft
Min Node Srf Area (2D):	100 ft2	Min Node Srf Area (1D):	100 ft2
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment:

Simulation: FDOT 25yr-8hr

Scenario:	Scenario1
Run Date/Time:	8/6/2025 9:45:39 AM
Program Version:	ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	16.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Reference ET Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:
Green-Ampt Set:
Vertical Layers Set:
Impervious Set:
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:
Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6	ET for Manual Basins:	False
Over-Relax Weight Fact:	0.5 dec		
dZ Tolerance:	0.0010 ft	Smp/Man Basin Rain Opt:	Global
Max dZ:	1.0000 ft	OF Region Rain Opt:	Global
Link Optimizer Tol:	0.0001 ft	Rainfall Name:	~FDOT-8
		Rainfall Amount:	7.52 in
Edge Length Option:	Automatic	Storm Duration:	8.0000 hr
Dflt Damping (2D):	0.0000 ft	Dflt Damping (1D):	0.0000 ft
Min Node Srf Area (2D):	100 ft2	Min Node Srf Area (1D):	100 ft2
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment:

Node Max Conditions [Scenario1]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
Groundwater	FDOT 100yr - 24hr	7.00	6.00	0.0000	0.73	0.00	0
storm chamber	FDOT 100yr - 24hr	16.84	13.78	0.0010	0.48	0.25	836
Groundwater	FDOT 25yr-24hr	7.00	6.00	0.0000	0.63	0.00	0
storm chamber	FDOT 25yr-24hr	16.84	12.08	0.0010	0.38	0.25	836
Groundwater	FDOT 25yr-8hr	7.00	6.00	0.0000	1.35	0.00	0
storm chamber	FDOT 25yr-8hr	16.84	16.33	0.0010	1.10	0.25	836

Link Min/Max Conditions [Scenario1]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
infiltration	FDOT 100yr - 24hr	0.25	0.00	-0.25	0.00	0.00	0.00
infiltration	FDOT 25yr-24hr	0.25	0.00	-0.25	0.00	0.00	0.00
infiltration	FDOT 25yr-8hr	0.25	0.00	-0.25	0.00	0.00	0.00

Simple Basin Runoff Summary [Scenario1]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
Post Dev	FDOT 100yr - 24hr	0.48	12.0000	13.44	12.09	0.3600	89.0	0.00	0.00
Pre Dev	FDOT 100yr - 24hr	0.48	12.0000	13.44	12.09	0.3600	89.0	0.00	0.00
Post Dev	FDOT 25yr-24hr	0.38	12.0000	10.80	9.47	0.3600	89.0	0.00	0.00
Pre Dev	FDOT 25yr-24hr	0.38	12.0000	10.80	9.47	0.3600	89.0	0.00	0.00
Post Dev	FDOT 25yr-8hr	1.10	4.0000	7.52	6.23	0.3600	89.0	0.00	0.00
Pre Dev	FDOT 25yr-8hr	1.10	4.0000	7.52	6.23	0.3600	89.0	0.00	0.00

Project:

Chamber Model -	MC-7200	
Units -	Imperial	
Number of Chambers -	10	
Number of End Caps -	4	
Voids in the stone (porosity) -	40	%
Base of Stone Elevation -	10.94	ft
Amount of Stone Above Chambers -	12	in
Amount of Stone Below Chambers -	9	in
Area of system -	750	sf Min. Area - 734 sf min. area

ADS StormTech™

☑ Include Perimeter Stone in Calculations

☑ Click for Stage Area Data

☐ Click to Invert Stage Area Data

Click Here for Metric

StormTech MC-7200 Cumulative Storage Volumes

Height of System (inches)	Incremental Single Chamber (cubic feet)	Incremental Total Chamber (cubic feet)	Incremental Stone (cubic feet)	Incremental Ch & St (cubic feet)	Cumulative Chamber (cubic feet)	Elevation (feet)	Cumulative System (cubic feet)	Elevation (feet)
81	0.00	0.00	0.00	0.00	25.00	25.00	3175.32	17.69
80	0.00	0.00	0.00	0.00	25.00	25.00	3150.32	17.61
79	0.00	0.00	0.00	0.00	25.00	25.00	3125.32	17.52
78	0.00	0.00	0.00	0.00	25.00	25.00	3100.32	17.44
77	0.00	0.00	0.00	0.00	25.00	25.00	3075.32	17.36
76	0.00	0.00	0.00	0.00	25.00	25.00	3050.32	17.27
75	0.00	0.00	0.00	0.00	25.00	25.00	3025.32	17.19
74	0.00	0.00	0.00	0.00	25.00	25.00	3000.32	17.11
73	0.00	0.00	0.00	0.00	25.00	25.00	2975.32	17.02
72	0.00	0.00	0.00	0.00	25.00	25.00	2950.32	16.94
71	0.00	0.00	0.00	0.00	25.00	25.00	2925.32	16.86
70	0.00	0.00	0.00	0.00	25.00	25.00	2900.32	16.77
69	0.06	0.01	0.59	0.05	24.74	25.39	2875.32	16.69
68	0.19	0.03	1.90	0.14	24.19	26.22	2849.93	16.61
67	0.28	0.05	2.75	0.21	23.82	26.78	2823.71	16.52
66	0.36	0.07	3.57	0.26	23.47	27.30	2796.93	16.44
65	0.46	0.08	4.58	0.33	23.03	27.95	2769.63	16.36
64	0.74	0.11	7.42	0.42	21.86	29.70	2741.68	16.27
63	1.10	0.13	10.96	0.53	20.40	31.90	2711.98	16.19
62	1.32	0.16	13.18	0.64	19.47	33.30	2680.08	16.11
61	1.50	0.19	14.98	0.75	18.71	34.44	2646.78	16.02
60	1.65	0.22	16.54	0.87	18.03	35.45	2612.34	15.94
59	1.79	0.25	17.94	0.99	17.43	36.36	2576.89	15.86
58	1.92	0.28	19.20	1.10	16.88	37.18	2540.53	15.77
57	2.04	0.30	20.37	1.21	16.37	37.95	2503.36	15.69
56	2.15	0.33	21.45	1.31	15.89	38.66	2465.41	15.61
55	2.25	0.35	22.48	1.42	15.44	39.34	2426.75	15.52
54	2.34	0.38	23.43	1.53	15.01	39.98	2387.41	15.44
53	2.43	0.41	24.33	1.64	14.61	40.58	2347.43	15.36
52	2.52	0.44	25.19	1.76	14.22	41.17	2306.85	15.27
51	2.60	0.47	26.01	1.88	13.85	41.73	2265.68	15.19
50	2.68	0.50	26.78	1.98	13.49	42.26	2223.95	15.11
49	2.75	0.52	27.53	2.08	13.16	42.77	2181.69	15.02
48	2.82	0.54	28.23	2.18	12.84	43.25	2138.92	14.94
47	2.89	0.57	28.91	2.27	12.53	43.71	2095.68	14.86
46	2.96	0.59	29.56	2.35	12.23	44.15	2051.97	14.77
45	3.02	0.61	30.19	2.44	11.95	44.58	2007.82	14.69
44	3.08	0.63	30.79	2.53	11.67	44.99	1963.24	14.61
43	3.14	0.64	31.36	2.57	11.43	45.36	1918.25	14.52
42	3.19	0.68	31.92	2.71	11.15	45.78	1872.89	14.44
41	3.25	0.70	32.45	2.80	10.90	46.15	1827.12	14.36
40	3.30	0.72	32.96	2.89	10.66	46.51	1780.97	14.27
39	3.35	0.74	33.46	2.97	10.43	46.86	1734.45	14.19
38	3.39	0.76	33.93	3.06	10.20	47.19	1687.60	14.11
37	3.44	0.79	34.39	3.14	9.99	47.52	1640.40	14.02
36	3.48	0.80	34.83	3.21	9.78	47.82	1592.88	13.94
35	3.53	0.82	35.25	3.28	9.59	48.12	1545.06	13.86
34	3.57	0.84	35.66	3.35	9.39	48.41	1496.94	13.77
33	3.61	0.85	36.06	3.41	9.22	48.68	1448.53	13.69
32	3.64	0.86	36.43	3.44	9.05	48.92	1399.85	13.61
31	3.68	0.89	36.80	3.56	8.86	49.21	1350.93	13.52
30	3.71	0.90	37.15	3.62	8.69	49.46	1301.72	13.44
29	3.75	0.92	37.49	3.67	8.54	49.69	1252.26	13.36
28	3.78	0.92	37.81	3.68	8.40	49.89	1202.56	13.27
27	3.81	0.94	38.12	3.77	8.24	50.14	1152.67	13.19
26	3.84	0.96	38.42	3.83	8.10	50.35	1102.53	13.11
25	3.87	0.97	38.70	3.87	7.97	50.55	1052.19	13.02
24	3.90	0.98	38.97	3.93	7.84	50.74	1001.64	12.94
23	3.92	0.97	39.23	3.88	7.75	50.87	950.90	12.86
22	3.95	1.00	39.48	4.01	7.60	51.10	900.03	12.77
21	3.97	1.01	39.72	4.04	7.49	51.26	848.93	12.69
20	3.99	1.02	39.95	4.08	7.39	51.42	797.67	12.61
19	4.02	1.03	40.16	4.12	7.29	51.57	746.26	12.52
18	4.04	1.04	40.36	4.15	7.19	51.71	694.69	12.44
17	4.06	1.05	40.55	4.19	7.10	51.84	642.98	12.36
16	4.07	1.05	40.74	4.22	7.02	51.97	591.14	12.27
15	4.09	1.05	40.91	4.20	6.96	52.06	539.16	12.19
14	4.11	1.06	41.07	4.23	6.88	52.18	487.10	12.11
13	4.12	1.08	41.22	4.30	6.79	52.31	434.92	12.02
12	4.14	1.08	41.37	4.33	6.72	52.42	382.61	11.94
11	4.15	1.09	41.50	4.35	6.66	52.51	330.19	11.86
10	4.17	1.11	41.71	4.43	6.55	52.68	277.68	11.77
9	0.00	0.00	0.00	0.00	25.00	25.00	225.00	11.69
8	0.00	0.00	0.00	0.00	25.00	25.00	200.00	11.61
7	0.00	0.00	0.00	0.00	25.00	25.00	175.00	11.52
6	0.00	0.00	0.00	0.00	25.00	25.00	150.00	11.44
5	0.00	0.00	0.00	0.00	25.00	25.00	125.00	11.36
4	0.00	0.00	0.00	0.00	25.00	25.00	100.00	11.27
3	0.00	0.00	0.00	0.00	25.00	25.00	75.00	11.19
2	0.00	0.00	0.00	0.00	25.00	25.00	50.00	11.11
1	0.00	0.00	0.00	0.00	25.00	25.00	25.00	11.02

Stage Area Data

Depth (feet)	Elevation (feet)	Area (ft²)	Area (acres)
0.00	10.94	300.00	0.0069
0.08	11.02	300.00	0.0069
0.17	11.11	300.00	0.0069
0.25	11.19	300.00	0.0069
0.33	11.27	300.00	0.0069
0.42	11.36	300.00	0.0069
0.50	11.44	300.00	0.0069
0.58	11.52	300.00	0.0069
0.67	11.61	300.00	0.0069
0.75	11.69	300.00	0.0069
0.83	11.77	632.18	0.0145
0.92	11.86	630.14	0.0145
1.00	11.94	629.01	0.0144
1.08	12.02	627.76	0.0144
1.17	12.11	626.11	0.0144
1.25	12.19	624.77	0.0143
1.33	12.27	623.65	0.0143
1.42	12.36	622.13	0.0143
1.50	12.44	620.52	0.0142
1.58	12.52	618.82	0.0142
1.67	12.61	616.99	0.0142
1.75	12.69	615.10	0.0141
1.83	12.77	613.17	0.0141
1.92	12.86	610.46	0.0140
2.00	12.94	608.88	0.0140
2.08	13.02	606.55	0.0139
2.17	13.11	604.14	0.0139
2.25	13.19	601.64	0.0138
2.33	13.27	598.72	0.0137
2.42	13.36	596.32	0.0137
2.50	13.44	593.52	0.0136
2.58	13.52	590.57	0.0136
2.67	13.61	587.08	0.0135
2.75	13.69	584.12	0.0134
2.83	13.77	580.91	0.0133
2.92	13.86	577.44	0.0133
3.00	13.94	573.89	0.0132
3.08	14.02	570.22	0.0131
3.17	14.11	566.32	0.0130
3.25	14.19	562.30	0.0129
3.33	14.27	558.14	0.0128
3.42	14.36	553.80	0.0127
3.50	14.44	549.31	0.0126
3.58	14.52	544.33	0.0125
3.67	14.61	539.87	0.0124
3.75	14.69	534.92	0.0123
3.83	14.77	529.81	0.0122
3.92	14.86	524.50	0.0120
4.00	14.94	518.97	0.0119
4.08	15.02	513.18	0.0118
4.17	15.11	507.11	0.0116
4.25	15.19	500.74	0.0115
4.33	15.27	494.07	0.0113
4.42	15.36	486.99	0.0112
4.50	15.44	479.76	0.0110
4.58	15.52	472.04	0.0108
4.67	15.61	463.90	0.0106
4.75	15.69	455.39	0.0105
4.83	15.77	446.14	0.0102
4.92	15.86	436.28	0.0100
5.00	15.94	425.42	0.0098
5.08	16.02	413.31	0.0095
5.17	16.11	399.57	0.0092
5.25	16.19	382.75	0.0088
5.33	16.27	356.43	0.0082
5.42	16.36	335.40	0.0077
5.50	16.44	327.62	0.0075
5.58	16.52	321.30	0.0074
5.67	16.61	314.67	0.0072
5.75	16.69	304.65	0.0070
5.83	16.77	300.00	0.0069
5.92	16.86	300.00	0.0069
6.00	16.94	300.00	0.0069
6.08	17.02	300.00	0.0069
6.17	17.11	300.00	0.0069
6.25	17.19	300.00	0.0069
6.33	17.27	300.00	0.0069
6.42	17.36	300.00	0.0069
6.50	17.44	300.00	0.0069
6.58	17.52	300.00	0.0069
6.67	17.61	300.00	0.0069

Simple Basin: Post Dev

Scenario:	Scenario1
Node:	storm chamber
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	10.0000 min
Max Allowable Q:	0.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	0.1700 ac
Curve Number:	84.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	

Comment:

Simple Basin: Pre Dev

Scenario:	Scenario1
Node:	Groundwater
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	10.0000 min
Max Allowable Q:	0.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	0.1700 ac
Curve Number:	71.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	

Comment:

Node: Groundwater

Scenario:	Scenario1
Type:	Time/Stage
Base Flow:	0.00 cfs
Initial Stage:	6.00 ft
Warning Stage:	7.00 ft
Boundary Stage:	

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	6.00
0	0	0	999.0000	6.00

Comment:

Node: storm chamber

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 10.94 ft
Warning Stage: 18.94 ft

Stage [ft]	Area [ac]	Area [ft2]
10.94	0.0038	166
11.02	0.0038	166
11.11	0.0038	166
11.19	0.0038	166
11.27	0.0038	166
11.36	0.0038	166
11.44	0.0038	166
11.52	0.0038	166
11.61	0.0038	166
11.69	0.0038	166
11.77	0.0077	335
11.86	0.0076	331
11.94	0.0076	331
12.02	0.0076	331
12.11	0.0076	331
12.19	0.0076	331
12.27	0.0076	331
12.36	0.0075	327
12.44	0.0075	327
12.52	0.0075	327
12.61	0.0075	327
12.69	0.0075	327
12.77	0.0074	322
12.86	0.0074	322
12.94	0.0074	322
13.02	0.0074	322
13.11	0.0073	318
13.19	0.0073	318
13.27	0.0073	318
13.36	0.0072	314
13.44	0.0072	314
13.52	0.0072	314

Stage [ft]	Area [ac]	Area [ft2]
13.61	0.0071	309
13.69	0.0071	309
13.77	0.0071	309
13.86	0.0070	305
13.94	0.0070	305
14.02	0.0069	301
14.11	0.0069	301
14.19	0.0068	296
14.27	0.0068	296
14.36	0.0068	296
14.44	0.0067	292
14.52	0.0066	287
14.61	0.0066	287
14.69	0.0065	283
14.77	0.0065	283
14.86	0.0064	279
14.94	0.0064	279
15.02	0.0063	274
15.11	0.0062	270
15.19	0.0061	266
15.27	0.0061	266
15.36	0.0060	261
15.44	0.0059	257
15.52	0.0058	253
15.61	0.0057	248
15.69	0.0056	244
15.77	0.0055	240
15.86	0.0054	235
15.94	0.0053	231
16.02	0.0051	222
16.11	0.0050	218
16.19	0.0048	209
16.27	0.0045	196
16.36	0.0042	183
16.44	0.0042	183
16.52	0.0041	179
16.61	0.0040	174
16.69	0.0039	170
16.77	0.0038	166
16.86	0.0038	166
16.94	0.0038	166
17.02	0.0038	166
17.11	0.0038	166
17.19	0.0038	166
17.27	0.0038	166
17.36	0.0038	166
17.44	0.0038	166
17.52	0.0038	166
17.61	0.0038	166

Stage [ft]	Area [ac]	Area [ft2]
17.69	0.0038	166

Comment:

Rating Curve Link: infiltration

Scenario: Scenario1
From Node: storm chamber
To Node: Groundwater
Link Count: 1
Flow Direction: Both

Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
Vertical drawdown	11.00	storm chamber	10.94	storm chamber

Comment:

Simulation: FDOT 100yr - 24hr

Scenario: Scenario1
Run Date/Time: 8/6/2025 9:32:05 AM
Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Reference ET Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:
Green-Ampt Set:
Vertical Layers Set:
Impervious Set:
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:
Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6	ET for Manual Basins:	False
Over-Relax Weight Fact:	0.5 dec		
dZ Tolerance:	0.0010 ft	Smp/Man Basin Rain Opt:	Global
Max dZ:	1.0000 ft	OF Region Rain Opt:	Global
Link Optimizer Tol:	0.0001 ft	Rainfall Name:	~FDOT-24
		Rainfall Amount:	13.44 in
Edge Length Option:	Automatic	Storm Duration:	24.0000 hr
Dflt Damping (2D):	0.0000 ft	Dflt Damping (1D):	0.0000 ft
Min Node Srf Area (2D):	100 ft2	Min Node Srf Area (1D):	100 ft2
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment:

Simulation: FDOT 25yr-24hr

Scenario: Scenario1
Run Date/Time: 8/6/2025 9:32:14 AM

Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Reference ET Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:
Green-Ampt Set:
Vertical Layers Set:
Impervious Set:
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:
Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6	ET for Manual Basins:	False
Over-Relax Weight Fact:	0.5 dec		
dZ Tolerance:	0.0010 ft	Smp/Man Basin Rain Opt:	Global
Max dZ:	1.0000 ft	OF Region Rain Opt:	Global
Link Optimizer Tol:	0.0001 ft	Rainfall Name:	~FDOT-24
		Rainfall Amount:	10.80 in
Edge Length Option:	Automatic	Storm Duration:	24.0000 hr
Dflt Damping (2D):	0.0000 ft	Dflt Damping (1D):	0.0000 ft
Min Node Srf Area (2D):	100 ft2	Min Node Srf Area (1D):	100 ft2
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment:

Simulation: FDOT 25yr-8hr

Scenario:	Scenario1
Run Date/Time:	8/6/2025 9:32:19 AM
Program Version:	ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	16.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Reference ET Folder:
Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:
Green-Ampt Set:
Vertical Layers Set:
Impervious Set:
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:
Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6	ET for Manual Basins:	False
Over-Relax Weight Fact:	0.5 dec		
dZ Tolerance:	0.0010 ft	Smp/Man Basin Rain Opt:	Global
Max dZ:	1.0000 ft	OF Region Rain Opt:	Global
Link Optimizer Tol:	0.0001 ft	Rainfall Name:	~FDOT-8
		Rainfall Amount:	7.52 in
Edge Length Option:	Automatic	Storm Duration:	8.0000 hr
Dflt Damping (2D):	0.0000 ft	Dflt Damping (1D):	0.0000 ft
Min Node Srf Area (2D):	100 ft2	Min Node Srf Area (1D):	100 ft2
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment:

Node Max Conditions [Scenario1]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
Groundwater	FDOT 100yr - 24hr	7.00	6.00	0.0000	0.29	0.00	0
storm chamber	FDOT 100yr - 24hr	18.94	16.02	0.0010	0.22	0.10	335
Groundwater	FDOT 25yr-24hr	7.00	6.00	0.0000	0.24	0.00	0
storm chamber	FDOT 25yr-24hr	18.94	13.03	-0.0010	0.17	0.10	335
Groundwater	FDOT 25yr-8hr	7.00	6.00	0.0000	0.50	0.00	0
storm chamber	FDOT 25yr-8hr	18.94	17.89	0.0010	0.49	0.10	335

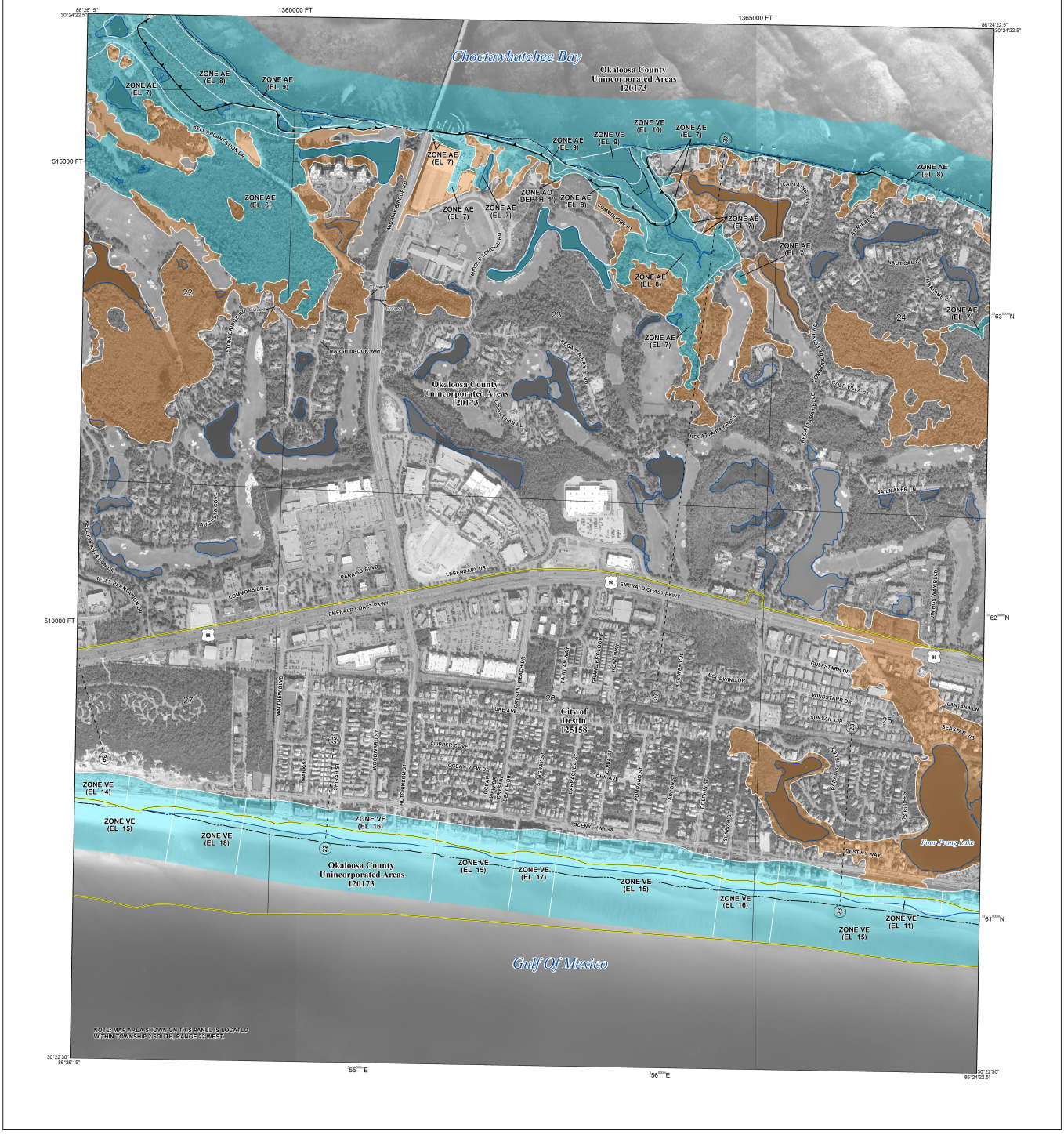
Link Min/Max Conditions [Scenario1]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
infiltration	FDOT 100yr - 24hr	0.10	0.00	-0.10	0.00	0.00	0.00
infiltration	FDOT 25yr-24hr	0.10	0.00	-0.10	0.00	0.00	0.00
infiltration	FDOT 25yr-8hr	0.10	0.00	-0.10	0.00	0.00	0.00

Simple Basin Runoff Summary [Scenario1]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
Post Dev	FDOT 100yr - 24hr	0.22	12.0000	13.44	11.42	0.1700	84.0	0.00	0.00
Pre Dev	FDOT 100yr - 24hr	0.19	12.0000	13.44	9.56	0.1700	71.0	0.00	0.00
Post Dev	FDOT 25yr-24hr	0.17	12.0000	10.80	8.83	0.1700	84.0	0.00	0.00
Pre Dev	FDOT 25yr-24hr	0.15	12.0000	10.80	7.10	0.1700	71.0	0.00	0.00
Post Dev	FDOT 25yr-8hr	0.49	4.0000	7.52	5.65	0.1700	84.0	0.00	0.00
Pre Dev	FDOT 25yr-8hr	0.40	4.0000	7.52	4.18	0.1700	71.0	0.00	0.00

Appendix C:
FEMA Flood Zone Map



NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 2 SOUTH, RANGE 22 WEST.

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT HTTPS://MSC.FEMA.GOV

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee See Notes. *Zone X*

OTHER AREAS
- NO SCREEN Areas Determined to be Outside the 0.2% Annual Chance Floodplain *Zone X*
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Accredited or Provisionally Accredited Levee, Dike, or Floodwall
- Non-accredited Levee, Dike, or Floodwall
- Cross Sections with 1% Annual Chance Water Surface Elevation (BFE)
- Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- Base Flood Elevation Line (BFE)

OTHER FEATURES
- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current date for each FIRM panel, how to order products or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Map Service Center website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was provided in digital format by the Florida Department of Transportation (FDOT). This information was derived from digital orthophotography at a 0.9-foot resolution from photography dated 2013.

LIMIT OF MODERATE WAVE ACTION: Zone AE has been divided by a Limit of Moderate Wave Action (LiMWA). The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the Zone VE and the LiMWA (or between the shoreline and the LiMWA for areas where Zone VE is not identified) will be similar to, but less severe than, those in the Zone VE.

Limit of Moderate Wave Action (LiMWA)

SCALE

Map Projection:

Florida State Plane North FIPS Zone 0903; North American Datum 1983 HARN; GRS 1980 Spheroid; Vertical Datum: North American Vertical Datum of 1988

1 inch = 500 feet 1:6,000

0 500 1,000 2,000 Feet

0 125 250 500 Meters

PANEL LOCATOR



* PANEL NOT PRINTED

FEMA National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP
OKALOOSA COUNTY, FLORIDA
and Incorporated Areas

PANEL 493 OF 494

FEMA

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
DESTIN, CITY OF	125158	0493	J
OKALOOSA COUNTY	120173	0493	J

VERSION NUMBER
1.3.1.2

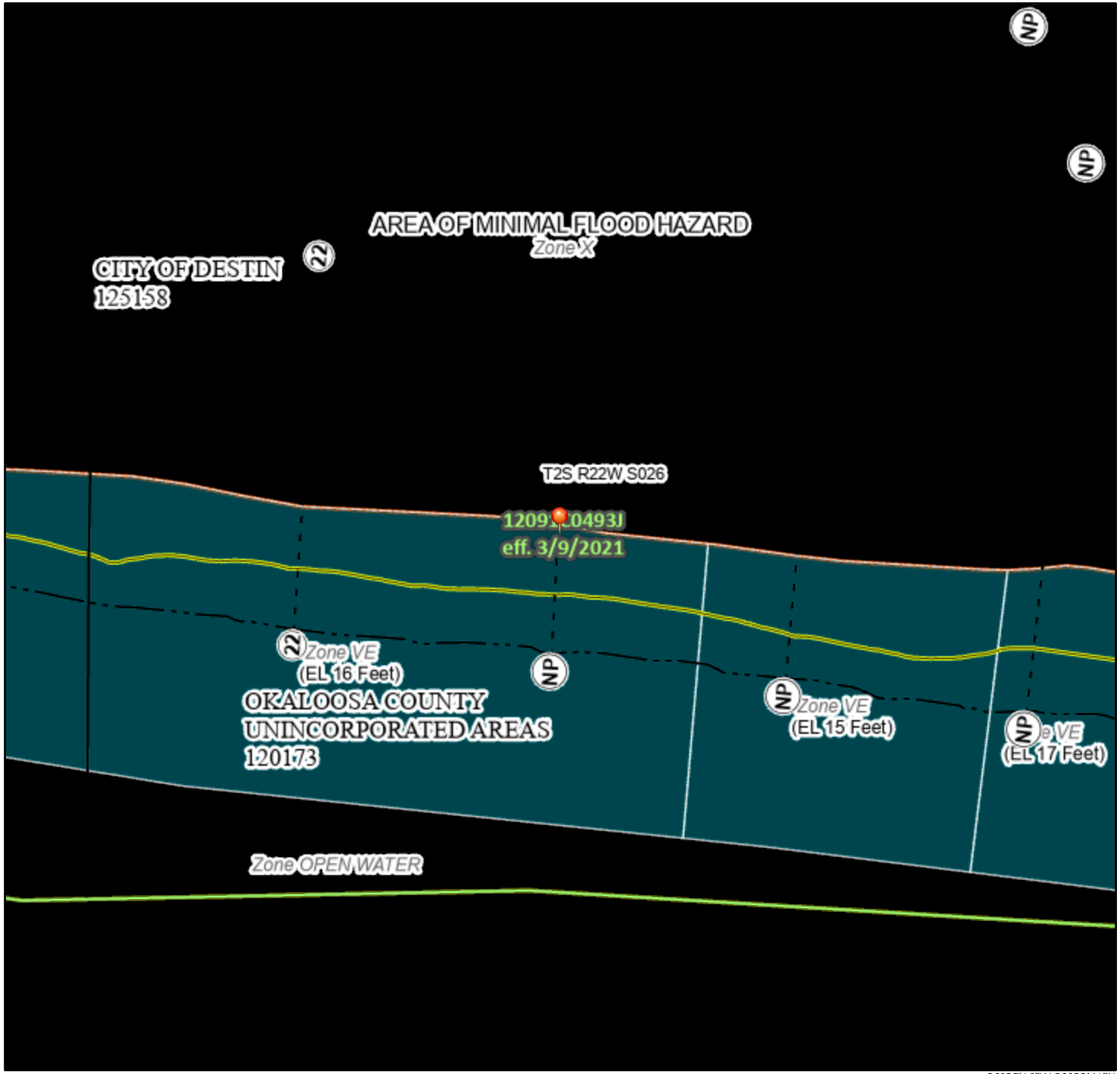
MAP NUMBER
12091C0493J

MAP REVISED
MARCH 9, 2021

National Flood Hazard Layer FIRMette

FEMA

86°25'54"W 30°23'12"N



86°25'16"W 30°22'41"N

Feet

0 250 500 1,000 1,500 2,000

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/6/2025 at 4:43 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Appendix D:
Soil Survey

Soil Map—Okaloosa County, Florida
(Crystal Beach Park)



Map Scale: 1:777 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 10 20 40 60

Feet
0 35 70 140 210

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Okaloosa County, Florida
Survey Area Data: Version 23, Aug 26, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 20, 2024—Nov 30, 2024

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3	Beaches	0.8	35.0%
18	Newhan-Corolla complex, 2 to 30 percent slopes	1.2	50.3%
Totals for Area of Interest		**2.3**	**100.0%**

Appendix E:
O&M Plan

OPERATIONS & MAINTENANCE INSTRUCTIONS
FOR THE
CRYSTAL BEACH PARK
STORMWATER MANAGEMENT SYSTEMS

I. GENERAL:

Stormwater Management Systems require periodic maintenance to ensure that the facilities function as designed.

II. FACILITY OPERATION

Stormwater systems normally do not require any kind of operational tasks. Most systems function by the force of gravity.

III. FACILITY MAINTENANCE

Facilities within this project which will require maintenance include the following:

1. Underground storm retention chambers located at the West and East lots of the Crystal Beach Park
2. Inlets and piping systems located at the West and East lots of the Crystal Beach Park

A. Underground Storm Detention Chambers

1. Inspection and Maintenance for all isolator plus rows
    a. Remove cover from structure at upstream end of isolator row plus.
    b. Using a flashlight, inspect down the isolator row plus for visual inspection of sediment levels.
        i. Mirrors on poles and cameras may be used to avoid confined space entry.
        ii. Follow all OSHA regulations for confined space entry into the manhole.
    c. If sediment buildup is at, or above 3", cleanout the isolator row plus using the jetvac process.
        i. Use a fixed culvert cleaning nozzle with rear facing spread of 45" or more.
        ii. Apply multiple passes of the jetvac until backflush water is clean.
        iii. Vacuum the structure sump as required to remove sediment.
    d. Replace manhole lid and record observations and actions performed.

B. Inlets and Piping Systems

1. Regular Maintenance
    a. Keep inlets and the surrounding drainage area clean and free of any trash and debris which may degrade the system.
    b. Following rainfall events, inspect drainage structures and note any standing water inside structures which may indicate a blockage within the

drainage system.

2. Restoration
   a. When a blockage within the drainage system is apparent, inspect the pipes and structures by visual inspection, snaking or video camera, whichever is appropriate.
   b. Remove any blockage using a pressure water system.
   c. Remove all soil and debris from the bottom of inlets.
   d. Repair failures in the drainage structures or pipe network. Depressed areas in the ground above the pipe network or adjacent to drainage structures may indicate possible failures in the drainage system.

IV. INSPECTION

A. Reporting

Regular inspection of the stormwater management system shall be performed by a registered professional as outlined in these instructions and required by the rules and permit governing the operation of the stormwater management facility. A report describing the results of inspections and certifying that the system is operating as designed and permitted, must be filed with the FDEP within 30 days after the inspection. In the event of a system failure, a report shall be submitted to the FDEP within 30 days of the failure. The results of all inspections shall be filed with the FDEP using Form "Operation and Maintenance Inspection Certification".

B. Frequency

1. Underground Storm Retention Chambers: Inspect every 6 months for the first year of operation. Adjust the inspection interval based on previous observations of sediment accumulation and high-water elevation. Conduct jetting and vactoring annually or as often as inspection shows that maintenance is necessary.
2. Other routine inspections shall be performed as required to ensure the proper operation of the stormwater management system and in accordance with the conditions of the stormwater permit.

Appendix F:
Geotechnical Report

TIERRA

REPORT OF GEOTECHNICAL EXPLORATION

Crystal Beach Park
Okaloosa County, Florida

Tierra Project No. 4511-22-002

Prepared for:

Baskerville-Donovan, Inc.
449 West Main Street
Pensacola, Florida 32502
Attn: Mr. Michael Langston, PE

Prepared by:

Tierra, Inc.
1300 West Main Street
Pensacola, Florida 32502

February 21, 2022

TIERRA
GEOTECHNICAL • MATERIALS
ENVIRONMENTAL • ENGINEERING
1300 West Main Street • Pensacola, FL 32502
Phone (850) 462-8774 • Fax (850) 462-8784

TIERRA

February 21, 2022

Baskerville-Donovan, Inc.
449 West Main Street
Pensacola, Florida 32502
Attn: Mr. Michael Langston, PE

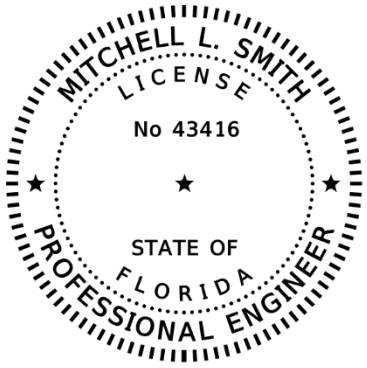
Subject: Crystal Beach Park
Okaloosa County, Florida
Tierra Project No. 4511-22-002

Mr. Langston:

Thank you for choosing Tierra, Inc. (Tierra) as your Geotechnical consultant. Per your authorization, we have completed the Geotechnical exploration for the subject project. The results of the study are discussed in this report.

Should you have any questions regarding the enclosed report or the project in general, please do not hesitate to contact us at (850) 462-8774.

Sincerely,
TIERRA, INC.



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

TIERRA, INC.
1300 WEST MAIN STREET
PENSACOLA, FLORIDA 32502

MITCHELL L. SMITH, P.E. NO. 43416

Matthew McCoy, EI
Geotechnical Engineer

Mitchell L. Smith, PE
Principal Geotechnical Engineer
Florida License No. 43416

TIERRA
GEOTECHNICAL • MATERIALS
ENVIRONMENTAL • ENGINEERING

1300 West Main Street • Pensacola, FL 32502
Phone (850) 462-8774 • Fax (850) 462-8774

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APPENDIX A

Boring Location Plan and Soil Profiles

Falling Head Permeability Test Results

1.0 PROJECT INFORMATION

1.1 Project Authorization

Authorization to proceed on this project was issued by Mr. Michael Langston, PE with Baskerville-Donovan, Inc. (BDI). A formal contract has been executed between Tierra, Inc. (Tierra) and BDI for these services.

1.2 Project Description

Based on the information provided, we understand that a new 600 sf restroom facility will be constructed in the southeast corner of the expanded Crystal Beach Park. The single-story off-grade structure will be founded on timber piles. Based on information provided by the structural engineer, Mr. Steve Leonard, PE (Berube Leonard, LLC), a pile compression capacity on the order of 10 tons is desired.

Two drainage swale areas are proposed to manage stormwater runoff from the proposed improvements. The treatment swales are expected to be relatively shallow (less than 3 feet deep).

If any of the project information noted above is incorrect or has changed, please inform Tierra so that we may amend the recommendations presented in this report, if necessary.

1.3 Purpose and Scope of Services

The purpose of this exploration was to evaluate the subsurface conditions present in the subject area and to render timber pile foundation recommendations as well as parameters for stormwater drawdown analysis for the proposed stormwater treatment facilities.

The exploration consisted of one 35 foot deep Standard Penetration Test (SPT) boring to evaluate the subsurface conditions for the restroom and two 7 foot to 10 foot deep auger borings in the proposed treatment swale areas; laboratory soil testing including water content tests, wash #200 sieve tests, and falling head permeability tests; and a site visit, visual classification of the soil samples, and analysis by our engineering staff.

2.0 SITE AND SUBSURFACE CONDITIONS

2.1 Site Location and Description

The site is located south of Scenic Highway 98 near the intersection of Hutchinson Street in Okaloosa County, Florida. The property fronts the Gulf of Mexico. An aerial photograph depicting the site location is shown on the Boring Location Plan (Appendix A).

At the time of our exploration, a residential property was present immediately east of the existing Crystal Beach park. The eastern-most residential property located near the proposed restroom facility was demolished in preparation for the park expansion.

Based on review of the topographic survey provided as well as the survey data on Google Earth, the site slopes downward from the north (at/near EL +22 feet) to the south (at/near EL +10 feet).

2.2 Subsurface Conditions

The Boring Location Plan and the Soil Profiles of the borings drilled for this study can be found in Appendix A. The borings were field located and staked using a Garmin GPSMap 64ST Global Positioning System (GPS) unit with a reported accuracy of ±1 meter. Therefore, the boring locations should be considered approximate.

We have estimated ground surface elevations at the boring locations using the topographic survey provided as well as the topographic information provided in Google Earth. The subsurface conditions encountered will be discussed in general terms below.

The restroom boring (B-1) generally encountered very loose sand from the ground surface (approximately EL +19 feet) to a depth of approximately 18 feet below existing grade (or to approximately EL +1 feet) underlain by dense sand to the bottom of the 35 foot deep boring (terminated at approximately EL -16 feet).

The treatment swale auger borings (AB-1 and AB-2) generally encountered sand from the ground surface (approximately EL +19 feet) to the bottom of the 7 foot to 10 foot deep borings.

The above subsurface descriptions are of a generalized nature, provided to highlight the major soil stratum encountered. The Soil Profiles should be reviewed for specific subsurface conditions at each boring location. The stratification shown on the Soil Profiles represents the subsurface

conditions at the actual boring locations only, and variations in the subsurface conditions can and may occur between boring locations and should therefore be expected. The stratification represents the approximate boundary between subsurface materials, and the transitions between strata may be gradual.

2.3 Groundwater Conditions

Groundwater was encountered in SPT boring B-1 at approximately 15 feet below existing grade at the time of drilling, which was during a period of below-normal seasonal rainfall. Based on the ground surface elevation at the boring location estimated from the topographic survey and Google Earth, this corresponds to groundwater elevation of approximately +4 feet NAVD 88.

Groundwater levels will fluctuate with rainfall and tides and could vary several feet during typical seasonal fluctuations. Larger fluctuations are possible under severe weather conditions. We recommend that the Contractor determine the actual groundwater levels at the time of construction to determine potential impacts groundwater can/will have on construction procedures.

2.4 Laboratory Soil Testing

Laboratory soil testing consisted of water content tests, wash #200 sieve tests, and falling head permeability tests. The results of the tests can be found on the Soil Profiles opposite the samples tested.

Falling head permeability tests were performed on remolded bulk samples of the more permeable soil strata encountered in the treatment swale borings. The densities to which the samples were remolded were based on the N_f values obtained from the SPT test boring nearby. The results of the tests are summarized in Table 1 below. The laboratory permeability test data sheets are attached in Appendix A.

TABLE 1 - LABORATORY FALLING HEAD PERMEABILITY TEST RESULTS

Soil Stratum	Boring	Sample Elevation, ft. NAVD 88	Sample Description	% Fines	Dry Density, pcf	Vertical Permeability, ft/day
1	AB-1	18.5 to 12	Light brown, white SAND	0.2	95.9	57.4
1	AB-2	15.5 to 9	Light brown, white SAND	0.4	97.8	28.4

3.0 EVALUATION AND RECOMMENDATIONS

3.1 General Comments

Based on our understanding of the proposed facility, the exploration encountered subsurface conditions that will provide adequate support for the proposed structure provided the recommendations presented in this report are followed.

The subsurface conditions encountered in the treatment swale borings are suitable for conventional dry treatment. Stormwater design parameters are presented in Section 3.5 below.

3.2 Timber Pile Foundation Recommendations

We have evaluated compression and tension pile capacities for 6-inch, 8-inch, and 10-inch tip diameter timber piles to support the proposed restroom facility. Table 2 below shows allowable compression and tension capacities for driven timber piles with a tip elevation of -6 feet NAVD 88 (note – all elevations referenced to NAVD 88). The capacities presented in Table 2 assume a pile butt elevation of +24 feet, a ground surface elevation of +19 feet (no scour), include a Factor of Safety of 2, and assume jetting or predrilling the piles to elevation +6 feet to aide in standing the piles prior to driving.

TABLE 2
ALLOWABLE TIMBER PILE COMPRESSION & TENSION CAPACITIES

Pile Size	Allowable Compression Capacity	Allowable Tension Capacity
6-inch Diameter Timber Pile	5 tons	2 tons
8-inch Diameter Timber Pile	10 tons	3 tons
10-inch Diameter Timber Pile	15 tons	4 tons

3.3 Pile Group Action

No reductions of the individual pile capacities will be required if piles are spaced center-to-center a minimum of 3 times their width/diameter. If piles are spaced closer, our office should be notified so that pile capacity reductions can be evaluated.

3.4 Settlement

Settlements of driven pile foundations are typically small and should not be a concern on this project provided the piles are embedded as recommended herein. Pile head settlements should be on the order of ½ inch or less. Group settlements are estimated to be on the same order of magnitude for the expected lightly loaded structure.

3.5 Stormwater Management Facility Recommendations

The subsurface conditions encountered in the treatment swale auger borings are suitable for conventional dry treatment of stormwater runoff. Geotechnical parameters for analysis/design are presented below:

- **Effective Aquifer Thickness**: A confining unit, which would hydrogeologically define the thickness of the surficial aquifer, was not encountered to a depth of 35 feet below existing grade (the deepest boring drilled on the site). For the purposes of modeling, we recommend setting the bottom of the aquifer no deeper than the bottom of the boring elevation (elevation -16 feet). Note that a shallower effective aquifer thickness for modeling a shallow swale may be more appropriate, and a sensitivity analysis using this parameter is warranted.

- **Seasonal High Groundwater Level**: Groundwater was encountered at approximately EL +4 feet at the time of drilling. Given that the boring was drilled during a period of below-normal rainfall and when tides are typically at their lowest, we have estimated the "normal" SHWT to be at/near elevation +6 feet.

- **Vertical Permeability**: Vertical flow from the bottom of the treatment swales will be controlled by the vertical permeability of the soil immediately beneath the bottom of the swale. Based on the results of the falling head permeability tests (Table 1), an average vertical permeability of 42.9 ft/day for Stratum 1 would be reasonable for modeling.

- **Horizontal Permeability**: Horizontal flow from the pond will be through the Stratum 1 soils. The horizontal permeability of Stratum 1 has been estimated based on the results of the vertical permeability tests and extensive experience with similar soils from field permeability tests. While horizontal permeabilities have generally been found to range from 3 to 10 times higher than vertical permeabilities of regional deposits, we recommend that a multiplier of 3 with a factor of safety of 2 be used for design (effectively, a 1.5 multiplier). Therefore, a K_h value of 64.4 ft/day would be reasonable for modeling the Stratum 1 materials (42.9 ft/day x 1.5).

- **Effective Porosity**: Based on the fines contents of the soils encountered in the test borings, an effective porosity of 0.30 would be appropriate for modeling the Stratum 1 soils.

4.0 REPORT LIMITATIONS

The recommendations submitted are based on the available soil information obtained by Tierra, Inc. and design details furnished by Baskerville-Donovan for the subject project. If there are any revisions to the plans for this project or if deviations from the subsurface conditions noted in this report are encountered during construction, Tierra should be notified immediately to determine if changes in the foundation, or other, recommendations are required. If Tierra is not retained to perform these functions, we cannot be responsible for the impact of such conditions on the performance of the project.

The findings, recommendations, specifications, and professional advice contained herein have been made in accordance with generally accepted professional Geotechnical engineering practices in the local area.

After the plans and specifications are more complete, the Geotechnical engineer should be provided the opportunity to review the final design plans and specifications to assure our engineering recommendations have been properly incorporated into the design documents. At that time, it may be necessary to submit supplementary recommendations. This report has been prepared for the exclusive use of Baskerville-Donovan for the specific application to the subject project.

APPENDIX A

Boring Location Plan and Soil Profiles

Falling Head Permeability Test Results

BORING LOCATION PLAN

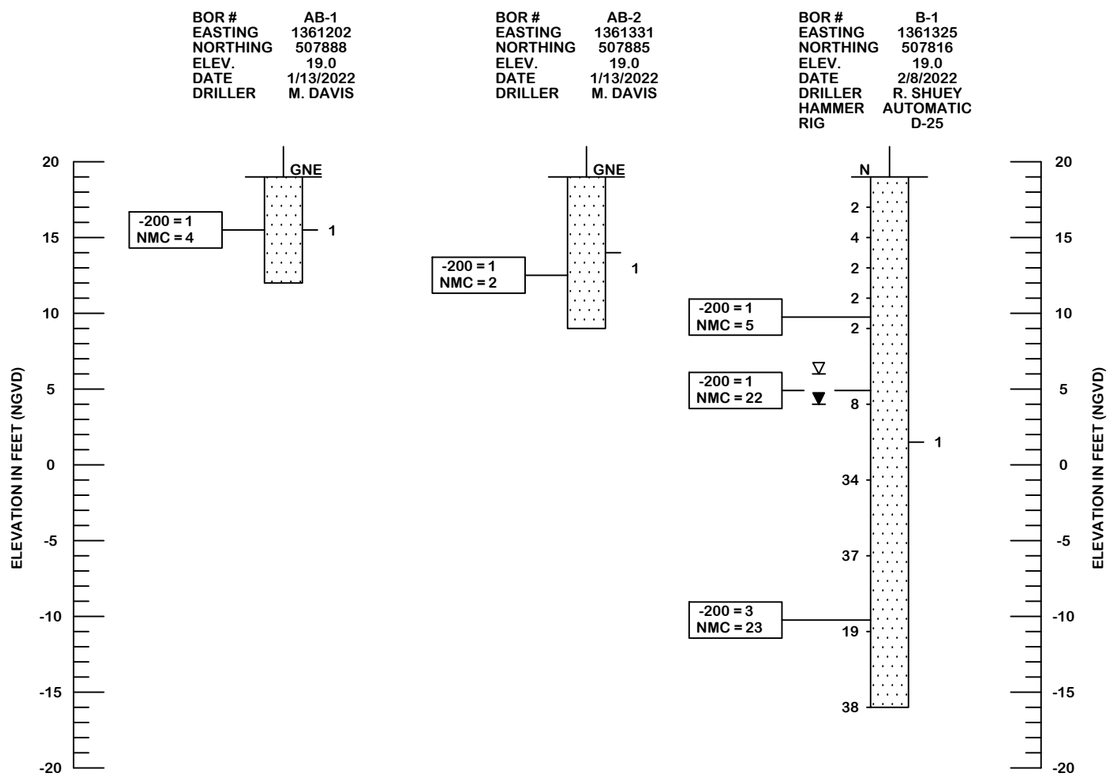
0 40'

PLAN SCALE



NOTE: BASE MAP PROVIDED BY BASKERVILLE-DONOVAN, INC.

SOIL PROFILES



AUTOMATIC HAMMER	
GRANULAR MATERIALS-RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 3
LOOSE	3 TO 8
MEDIUM	8 TO 24
DENSE	24 TO 40
VERY DENSE	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 1
SOFT	1 TO 3
FIRM	3 TO 6
STIFF	6 TO 12
VERY STIFF	12 TO 24
HARD	GREATER THAN 24

LEGEND

1 — LIGHT BROWN, WHITE SAND (SP)

▼ GROUNDWATER LEVEL ENCOUNTERED DURING INVESTIGATION

▽ ESTIMATED "NORMAL" SEASONAL HIGH GROUNDWATER TABLE

⊕ APPROXIMATE LOCATION OF AUGER BORING

⊕ APPROXIMATE LOCATION OF SPT BORING

N SPT N-VALUE IN BLOWS/FOOT FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED)

SP UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2488) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.

GNE GROUNDWATER TABLE NOT ENCOUNTERED

-200 PERCENT PASSING #200 SIEVE

NMC NATURAL MOISTURE CONTENT (%)

EASTING EASTING COORDINATE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA NORTH ZONE, N.A.D. 83 DETERMINED USING HAND-HELD GARMIN GPS MAP 64 ST GPS GLOBAL POSITIONING SYSTEM WITH A REPORTED ACCURACY OF +/- 1 METER.

NORTHING NORTHING COORDINATE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA NORTH ZONE, N.A.D. 83 DETERMINED USING HAND-HELD GARMIN EGARMIN GPS MAP 64 ST GPS GLOBAL POSITIONING SYSTEM WITH A REPORTED ACCURACY OF +/- 1 METER.

ELEV. GROUND SURFACE ELEVATION ESTIMATED FROM GOOGLE EARTH AND TOPOGRAPHIC SURVEY PROVIDED BY CLIENT.

DRAWN BY: SW
CHECKED BY: MMC
APPROVED BY: MLS
DATE: FEB 2022
ENGINEER OF RECORD: MITCHELL L. SMITH, P.E.
FLORIDA LICENSE NO.: 43416

TIERRA
1300 West Main Street
Pensacola, Florida 32502
Phone: 850-462-8774 Fax: 850-462-8784

SCALE: NOTED
PROJECT NUMBER: 4511-22-002

GEOTECHNICAL ENGINEERING SERVICES
CRYSTAL BEACH PARK
OKALOOSA COUNTY, FLORIDA

SHEET 1

FALLING HEAD PERMEABILITY TEST

Project Name: Crystal Beach Park **Date:** 1/21/2022

Project Number: 4511-22-002 **Sample Location:** AB-1, EL +18.5 to +12.0 feet **Technician:** DH

Sample Description: Light brown, white SAND (Stratum 1) **Soil Classification:** SP

Remolded Compactive Effort: Standard Proctor **No. of Layers:** 3 **Blows Per Layer:** 25

Assumes: 1. Standard Proctor Mold (L = 4.5 in.)
2. 1/2 Inch Diameter Tubing

$$K_V = \frac{(2.3*a*L)\log(h1/h2)}{(A)(\text{Delta t})}$$

where
a = 1.267 cm (area of tube)
L = 4.5 in. (height of soil sample)
= 11.43 cm (L = 4.5 in. for full mold)
A = 12.57 sq. in. (area of Proctor mold)
= 81.1 sq. cm

Remolded Test Sample Density

Can #	1
Wt. Can + Wet Soil, g	388.6
Wt. Can + Dry Soil, g	369.7
Wt. of Water, g	18.9
Wt. of Can, g	260.1
Wt. of Dry Soil, g	109.6
Moisture Content, %	17.2%
Wt. Wet Soil + Mold, lbs.	8.2
Wt. of Mold, lbs.	4.5
Wt. of Wet Soil, lbs.	3.7
Wet Density, pcf	112.4
Dry Density, pcf	95.9

Head (ft)	Time (sec) Run #1	Time (sec) Run #2	Avg. Time (sec)
7	0	0	0
6	1	1	1.0
5	3	3	3.0
4	5	5	5.0
3	8	8	8.0
2	11	11	11.0
1	17	17	17.0

h1	h2	Delta t (sec)	K_V (cm/sec)
7	1	17	2.0E-02
6	1	16	2.0E-02
7	2	11	2.0E-02

Average K_V =	**2.0E-02 cm/sec**
	57.4 ft/day

Fines Content of Test Sample

Can #	1
Wt. Can + Wet Soil, g	249.6
Wt. Can + Dry Soil, g	245.4
Wt. of Water, g	4.2
Wt. of Can, g	127.1
Wt. of Dry Soil, g	118.3
Wt. of Dry Sample After Washing + Can, g	245.2
Wt. of Soil Lost During Washing, g	0.2
Moisture Content, %	3.6%
Percent Fines, %	0.2%

FALLING HEAD PERMEABILITY TEST

Project Name: Crystal Beach Park **Date:** 1/21/2022

Project Number: 4511-22-002 **Sample Location:** AB-2, EL +15.5 to +9.0 feet **Technician:** DH

Sample Description: Light brown, white SAND (Stratum 1) **Soil Classification:** SP

Remolded Compactive Effort: Standard Proctor **No. of Layers:** 3 **Blows Per Layer:** 25

Assumes: 1. Standard Proctor Mold (L = 4.5 in.)
2. 1/2 Inch Diameter Tubing

$$K_V = \frac{(2.3*a*L)\log(h1/h2)}{(A)(\text{Delta t})}$$

where
a = 1.267 cm (area of tube)
L = 4.5 in. (height of soil sample)
= 11.43 cm (L = 4.5 in. for full mold)
A = 12.57 sq. in. (area of Proctor mold)
= 81.1 sq. cm

Remolded Test Sample Density

Can #	1
Wt. Can + Wet Soil, g	370.8
Wt. Can + Dry Soil, g	354.3
Wt. of Water, g	16.5
Wt. of Can, g	260.1
Wt. of Dry Soil, g	94.2
Moisture Content, %	17.5%
Wt. Wet Soil + Mold, lbs.	8.3
Wt. of Mold, lbs.	4.5
Wt. of Wet Soil, lbs.	3.8
Wet Density, pcf	115.0
Dry Density, pcf	97.8

Head (ft)	Time (sec) Run #1	Time (sec) Run #2	Avg. Time (sec)
7	0	0	0
6	3	3	3.0
5	6	6	6.0
4	10	10	10.0
3	15	15	15.0
2	22	22	22.0
1	35	35	35.0

h1	h2	Delta t (sec)	K_V (cm/sec)
7	1	35	9.9E-03
6	1	32	1.0E-02
7	2	22	1.0E-02

Average K_V =	1.0E-02 cm/sec
	28.4 ft/day

Fines Content of Test Sample

Can #	2
Wt. Can + Wet Soil, g	276.9
Wt. Can + Dry Soil, g	274.2
Wt. of Water, g	2.7
Wt. of Can, g	126.1
Wt. of Dry Soil, g	148.1
Wt. of Dry Sample After Washing + Can, g	273.6
Wt. of Soil Lost During Washing, g	0.6
Moisture Content, %	1.8%
Percent Fines, %	0.4%

Community Development
Planning and Zoning Division

4100 Indian Bayou Trail | Destin, FL 32541 | Phone: 850-654-1119 | Email: planning@cityofdestin.com

September 4, 2025

Subject: Notification of Development Project: 2966 Scenic Highway 98;
Major Development Order – The Shores at Crystal Beach
City of Destin Project Number: DEV-001655-2025

Dear Property Owner:

The purpose of this letter is to notify you that the Planning Division has received an application for a Major Development Order. As an owner of property located within 300 feet of this project, ***Article 2.17.00 of the Destin Land Development Code (LDC)*** requires a written notice providing you with the following information.

This notice is for informational purposes only and no action is required of you. However, citizens are encouraged to provide any comments to the email address provided below.

1.	Name of Owner:	City of Destin
2.	Name of Agent:	Jeffrey Petermann, Baskerville-Donovan, Inc.
3.	Address of Project:	2966, 2942, 2970 Scenic Highway 98
4.	Parcel ID Number:	00-2S-22-0584-0000-0010, 00-2S-22-0584-0000-0030, 00-2S-22-0590-0000-00A0
5.	Project Description:	Expanding 'The Shores at Crystal Beach' public beach access across two additional parcels, expanding the existing parking lot and adding an additional LSV parking lot with restroom facility and a dune walkover.
6.	Location Map:	Please refer to the back of this letter.

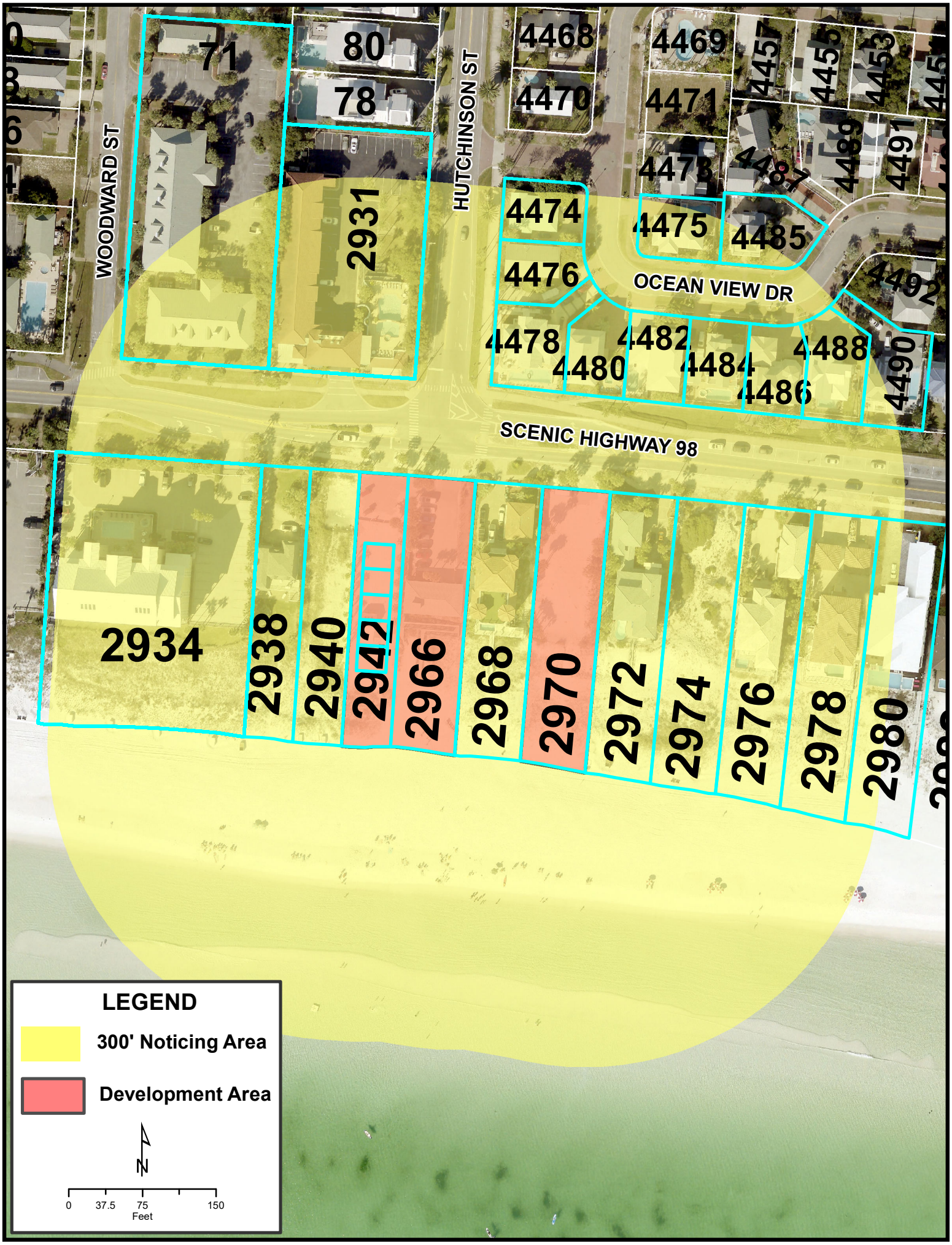
7. Location of Application Package: To request a digital copy of the application package be sent to you, please call the City Clerk at (850) 837-4242 or fill out a public records request online: http://www.cityofdestin.com/forms.aspx?fid=121

If you have any questions, please do not hesitate to call (850) 654-1119 or email planning@cityofdestin.com.

Sincerely,

Jesse Hernandez
Senior Planner

Cc: David Prichard, Community Development Director
Planning Division
Project File


WOODWARD ST
HUTCHINSON ST
SCENIC HIGHWAY 98
OCEAN VIEW DR
71
80
78
2931
4468
4469
4470
4471
4473
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2978
2980
LEGEND
300' Noticing Area
Development Area
N
0
37.5
75
150
Feet

AFFIDAVIT
POSTING OF PROPERTY

BEFORE ME, the undersigned authority, personally appeared: Jesse Hernandez,

the owner and/or authorized agent of the following described property: 2942, 2966, 2970 Scenic Hwy 98 -who deposes and says as follows:

1. That the subject site described above has a sign posted by the owner and/or authorized agent for the owner, notifying the public of the development activity, city project number, and authorized agent and phone number.
2. That the posted sign meets the dimensional requirements set by the City.
3. That the posted sign was placed and will be maintained upon the property in the correct location and not less than fourteen (14) days from the date of the City's Completeness Letter.
4. That a photo of the sign depicting the location of the sign in relation to the road right-of-way is attached.
5. This affidavit will be forwarded to the City's Planning Division no later than seven (7) working days from the posting of the sign.

I have completed the said requirements as described in the City of Destin Land Development Code.

Signed Name of Owner/Agent

Jesse Hernandez
Printed Name of Owner/Agent

STATE OF Florida
COUNTY OF Okaloosa

The foregoing instrument was acknowledged before me by means of physical presence ✓ or online notarization ___, this 15th day of October, 2025,

By: Jesse Hernandez
(Print name)

Personally known ✓ OR Produced Identification _____

Notary Signature Seal:

LUZ D. DOMINGUEZ
MY COMMISSION # HH 618128
EXPIRES: December 3, 2028


Public Notice
Proposed Development
DEV 001655-2025
FREE PARKING
for
LSVs ONLY


City of Destin
Public Notice
for
Proposed Development
Major Development Order
DEV 001655-2025
Authorized Agent: Jeffrey Peterman, BVG INC.
Agent's Phone #: 850-230-6158
Project Plans can be requested
via the City Clerk at
850-837-4242 or at
www.cityofdestin.com
NO
PARKING
LITTLE
ADVENTURE
PARKING
PERMIT
REQUIRED

DESTIN WATER USERS INC.

P.O. BOX 308 DESTIN, FL. 32540-0308 (850)-837-6146

DATE: 9/24/2025

TO: THE CITY OF DESTIN – COMMUNITY DEVELOPMENT
4200 TWO TREES ROAD
DESTIN, FLORIDA 32541

PROJECT: The Shores at Crystal Beach Expansion

PROJECT NUMBER: DEV-001655-2025

CONTACT: Jesse Hernandez

LOCATION: 4100 Indian Bayou Trail Destin, Florida 32541

[X] **PROJECT QUESTIONNAIRE WAS COMPLETED AND RETURNED TO DESTIN WATER USERS.**

THIS LETTER CERTIFIES THAT THIS PROJECT HAS BEEN REVIEWED BY DESTIN WATER USERS INC. AT A TECHNICAL REVIEW COMMITTEE MEETING AND IS CONCEPTUALLY:

X APPROVED

(Subject to the following, which shall be a condition of the Developmental Order with the City of Destin)

1. *ALL REVISIONS TO THE WATER AND/OR SEWER UTILITIES OF ANY PREVIOUSLY APPROVED PROJECT MUST BE REAPPROVED BY DESTIN WATER USERS, INC. IN WRITING AT LEAST 24 HOURS PRIOR TO IMPLEMENTATION.*
2. ***FIELD VERIFIED AND SCALED "AS-BUILT" PLANS INCLUDING ALL UTILITY INFRASTRUCTURES MUST BE SUBMITTED TO THE CITY OF DESTIN AND FORWARDED TO DESTIN WATER USERS, INC. FOR FINAL INSPECTION BY DESTIN WATER USERS, INC. A WRITTEN APPROVAL SHALL THEN BE SUBMITTED TO THE CITY OF DESTIN PRIOR TO THE ISSUANCE OF CERTIFICATE OF OCCUPANCY BY THE CITY OF DESTIN IF THERE ARE NO OUTSTANDING ISSUES.***
3. WATER
   a. Please confirm size of meter and BFP for east parcel on CU-101. Size may change service connection.
   b. No FDEP permits are needed for a single service to a lot (east side).
   c.

IF YOU HAVE QUESTIONS OR CONCERNS, PLEASE CONTACT MONICA WALLIS AT mwallis@dwuinc.com OR 850-837-6146 EXT. 3945 OR BY FAX AT 850-654-5173

_____
Signed

d.

e.

f.

4. SEWER

a. East side will use existing service that was in place for previous residential home on the east side of lot, provided the elevations work for gravity flow. Elevations should be verified by contractor.

b. If elevations do not allow for gravity flow, then a private grinder pump station shall be installed.

c.

d.

e.

f.

5.

a.

b.

c.

d.

e.

f.

IF YOU HAVE QUESTIONS OR CONCERNS, PLEASE CONTACT MONICA WALLIS AT mwallis@dwuinc.com OR 850-837-6146 EXT. 3945 OR BY FAX AT 850-654-5173

Signed

CITY OF DESTIN
CONCURRENCY EVALUATION CERTIFICATION
SANITARY SEWER

The following certificate must be completed in full, returned to and certified by one of the following sewer providers, and returned signed and dated to the City of Destin's Community Development Department:

Destin Water Users, Inc.
Attn: Mr. Steven Schmitt
218 Main St.
Destin, Florida 32541
Phone: (850) 337-3937 ext 3937
Fax: (850) 837-4165

South Walton Utility Company, Inc.
Attn: Ms. Alicia Keeter
369 Miramar Beach Drive
Miramar Beach, FL 32550
Phone: (850) 837-2988
Fax: (850) 837-7648

This section is to be completed in full by the project representative (i.e. Engineer of record):

Project Name: Shores at Crystal Beach Park Expansion

Project Address: Intersection of Huchison and Scenic 98

Project Representative: Baskerville Donovan, Inc. Phone: 251-380-0311

Square Footage and Type of Usage: 603.6SF Recreational (restroom facility)

Number of Units: 1

Signature: Raven S. Roberts Digitally signed by Raven S. Roberts DN: C=US, E=rroberts@baskervilledonovan.com, CN=Raven S. Roberts Date: 2025.08.15 11:25:30-05'00' Date: 08.15.2025

This section to be completed by Sewer Provider:

Is this site within an existing service area? Yes [X] No [ ] If no, will the service area be extended? Yes [ ] No [ ]

If no, how will sanitary sewer be provided: _____

Adopted Level of Service (LOS):

128 gallons per capita per day (Land Development Code: Article 6, Section 6.04.02.B.1)

Demand Generated by this project: 1,700 GPD

Will the project demand cause the plant to reach 85% of its operating capacity: Yes [ ] or No [X]? If yes, attach details of plans for upgrading facility including time schedules, etc.

Based on the methodology specified in Article 6, Section 6.04.00 of the City of Destin Land Development Code, the adopted LOS for sanitary sewer as stated above ***IS*** *or* ***IS NOT*** *(circle one) maintained for this development.*

Signature	Title	Date
Thomas M Wallis	General Manager	9/24/25

CITY OF DESTIN
CONCURRENCY EVALUATION CERTIFICATION
POTABLE WATER

The following certificate must be completed in full, returned to and certified by one of the following water providers, and returned signed and dated to the City of Destin's Community Development Department:

Destin Water Users, Inc.
Attn: Mr. Steven Schmitt
218 Main St.
Destin, Florida 32541
Phone: (850) 337-3937 ext 3937
Fax: (850) 837-4165

South Walton Utility Company, Inc.
Attn: Ms. Alicia Keeter
369 Miramar Beach Drive
Miramar Beach, Florida 32550
Phone: (850) 837-2988
Fax: (850) 837-7648

This section is to be completed in full by the project representative (i.e. Engineer of record):

Project Name: Shores at Crystal Beach Park Expansion

Project Location: Hutchison and Scenic 98 **Lot/Block:** 3/B

Project Representative(s) Name: Baskerville Donovan, Inc. **Phone #:** 251-380-0311

Square Footage and Type of Usage: 603.6 Recreational (restroom facility)

Number of Units: 1

Signature: Raven S. Roberts Digitally signed by Raven S. Roberts DN: C=US, E=rroberts@baskervilledonovan.com, CN=Raven S. Roberts Date: 2025.08.15 11:41:52-05'00' Date: 08.15.2025

This section to be completed by the Water Provider:

Is this site within an existing service area? Yes [X] No [ ] If no, will the service area be extended? Yes [ ] No [ ] If no, how will potable water be provided: _____

Adopted Level of Service (LOS): 125 gallons per capita per day (average) (Land Development Code: Article 6, Section 6.04.02.B.5)

Demand Generated by this project: 1,700 GPD

Will the project demand cause the plant to reach 85% of its operating capacity: Yes [ ] No [X] If yes, attach details of plans for upgrading facility including time schedules, etc.

Based on the methodology specified in Article 6, Section 6.04.00 of the City of Destin Land Development Code, the adopted LOS for potable water as stated above ***IS*** *or* ***IS NOT*** *(circle one) maintained for this development.*

Signature	Title	Date
[signature]	General Manager	9/24/25

OGD REVIEW
9/22/2025 C.W.

EXISITNG 5/8" PE GAS S/L,
POTENTIAL CONFLICT WITH
LANDSCAPE AND WATER SERVICE,
LOCATE AND PROTECT

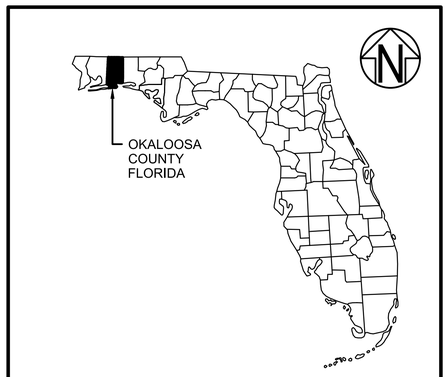
CONSTRUCTION PLANS FOR

SHORES AT CRYSTAL BEACH PARK EXPANSION

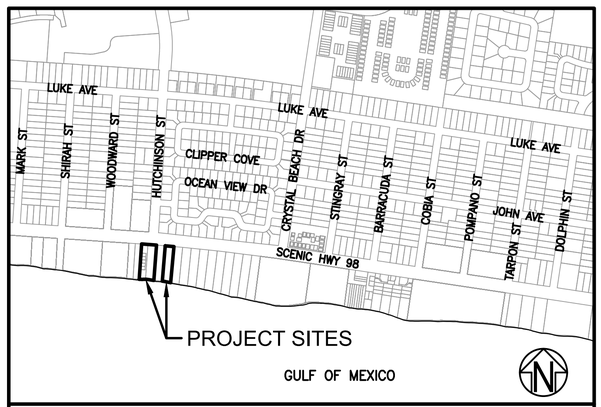
JULY 2025

PREPARED FOR:

OKALOOSA COUNTY



VICINITY MAP



LOCATION MAP

OKALOOSA COUNTY
COMMISSIONERS

PAUL MIXON (CHAIRMAN)	COMMISSIONER DISTRICT 1
CAROLYN KETCHEL	COMMISSIONER DISTRICT 2
SHERRI COX	COMMISSIONER DISTRICT 3
TREY GOODWIN	COMMISSIONER DISTRICT 4
DREW PALMER	COMMISSIONER DISTRICT 5

PREPARED BY:

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
14101 PANAMA CITY BEACH PARKWAY, SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-6150
ENGINEERING BUSINESS: EB-0000340
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

ENGINEER'S PROJECT NO. 12105.02

48 HOURS BEFORE YOU DIG
CALL SUNSHINE
1-800-432-4770
IT'S THE LAW IN FLORIDA
FL STATUTE 553.851 (1979) REQUIRES
MIN. OF 2 DAYS AND MAX. OF 5 DAYS
NOTICE BEFORE YOU EXCAVATE.

SHEET INDEX

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G-001	GENERAL NOTES
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C-106	GRADING AND STORM DRAINAGE PLAN
C-107	STORM DRAINAGE DATA TABLES AND NOTES
C-300	TYPICAL PAVEMENT SECTIONS
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C-501	MISCELLANEOUS DETAILS
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C-503	ADS STORM TECH CHAMBER SYSTEM NOTES
C-504	ADS STORM TECH CHAMBER SYSTEM DETAILS (WEST ASPHALT PARKING LOT)
C-505	ADS STORM TECH CHAMBER SYSTEM DETAILS (EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT)
C-506	ADS STORM TECH CHAMBER SYSTEM DETAILS
C-507	ADS STORM TECH CHAMBER SYSTEM DETAILS
C-508	ADS STORM TECH CHAMBER SYSTEM DETAILS
C-509	MISCELLANEOUS STANDARD FDOT DETAILS
C-510	MISCELLANEOUS STANDARD FDOT DETAILS
C-511	MISCELLANEOUS STANDARD FDOT DETAILS
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C-700	STRIPING AND SIGNAGE PLAN
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C-702	MISCELLANEOUS STANDARD FDOT DETAILS
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C-801	BEST MANAGEMENT PRACTICES DETAILS
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LI-100	IRRIGATION PLAN
LI-500	IRRIGATION DETAILS
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LE-500	SITE LIGHTING DETAILS

GENERAL NOTES:

1. THE CONTRACTORS SHALL NOTIFY OKALOOSA COUNTY MANAGER OR DESIGNEE 48 HOURS PRIOR TO CONSTRUCTION.
2. ALL CONDITIONS AND STIPULATIONS OF THE CONSTRUCTION PERMITS AND THE APPROVALS ISSUED BY OKALOOSA COUNTY SHALL BE COMPLIED WITH IN EVERY DETAIL.
3. ALL ROADS DAMAGED BY CONSTRUCTION OPERATIONS ARE TO BE PATCHED OR RECONSTRUCTED AS DIRECTED BY OKALOOSA COUNTY MANAGER OR DESIGNEE.
4. THE CONTRACTOR SHALL TAKE STEPS NECESSARY TO PREVENT EROSION AND ANY OFF SITE SEDIMENT TRANSPORT RESULTING FROM INCREASED RUNOFF DURING CONSTRUCTION BY PROVIDING EROSION CONTROL MEASURES CONSISTENT WITH THE FLORIDA STORMWATER, EROSION, AND SEDIMENT CONTROL INSPECTOR'S MANUAL, 2018 EDITION, OR AS INDICATED ON THE PLANS. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ASSOCIATED DISTURBED AREAS ARE STABILIZED AS TO REDUCE SEDIMENT RUNOFF, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR DESIGNEE.
5. THE CONTRACTOR SHALL EMPLOY THE USE OF SILT FENCES, HAY BALES, DITCHES OR WHATEVER MEANS NECESSARY TO CONTROL EROSION AND SEDIMENTATION AT ALL TIMES. WATERS OF THE STATE, ADJACENT PROPERTIES, AND ANY NEW DRAINAGE CONSTRUCTION SHALL BE PROTECTED DURING THE CONSTRUCTION PERIOD. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND SHALL REMAIN UNTIL THE COMPLETION OF CONSTRUCTION AND ACCEPTANCE BY THE OWNER.
6. ANY NECESSARY PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING AND/OR CONSTRUCTION.
8. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PRESERVE OR RELOCATE ALL BENCHMARKS (VERTICAL CONTROL) AS NEEDED DURING CONSTRUCTION. ALL PUBLIC OR PRIVATE CORNER MONUMENTATION SHALL BE PROTECTED. IF A PUBLIC OR PRIVATE CORNER MONUMENTATION IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR DESIGNEE IMMEDIATELY. ANY OKALOOSA COUNTY/CITY HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS ARE DISTURBED OR DESTROYED THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF THE MONUMENTS AND HAVE THE MONUMENTS POSITION DETERMINED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER USING GUIDELINES AS ESTABLISHED BY NATIONAL GEODETIC SURVEY FOR BLUE BOOKING AND APPROVAL.
9. EXISTING DRAINAGE FEATURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL MATCH EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AS DIRECTED BY THE ENGINEER OR DESIGNEE.
11. EXISTING STREETS AND DRIVES SHALL BE MAINTAINED TO LOCAL TRAFFIC AND PROPERTY OWNERS.
12. ONLY ACCESS TO THE ROAD R/W AS SHOWN IS GUARANTEED BY OKALOOSA COUNTY. PRIVATE R/W REQUIRED BY THE CONTRACTOR TO FACILITATE CONSTRUCTION SHALL BE ACQUIRED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION OR ASSISTANCE FROM THE CITY.
13. VEGETATION ON R/W AND EASEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLAN SHEETS. COST OF SAID RESTORATION SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS.
14. GRADED AGGREGATE BASE SHALL BE REQUIRED WHERE THE SEASONAL HIGH GROUND WATER ENCROACHES WITHIN TWO (2) FEET OF THE BOTTOM OF BASE.
15. ALL COMPACTED FILL SHALL BE PLACED IN 4" LIFTS FOR HAND POWERED TAMPERS AND 8" LIFTS FOR HEAVY EQUIPMENT OPERATED TAMPERS.
16. THE CONTRACTOR SHALL, AT A MINIMUM, MATCH EXISTING SIGNING AND PAVEMENT MARKINGS. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE LATEST FDOT DESIGN STANDARDS. THE CONTRACTOR SHALL CONTACT THE COUNTY AND CITY TRAFFIC DEPARTMENT PRIOR TO INSTALLATION OF ANY SIGNING AND PAVEMENT MARKINGS.
17. WHERE UNSUITABLE MATERIAL IS ENCOUNTERED IN THE AREAS PROPOSED FOR PAVING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY ENGINEER OR DESIGNEE PRIOR TO ANY EXCAVATION.
18. ALL DISTURBED AREAS WHICH ARE NOT PAVED SHALL BE STABILIZED WITH STAKED SOD. UNLESS NOTED OTHERWISE.
19. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS DURING CONSTRUCTION WHICH SHOW "AS-BUILT" CONDITIONS OF ALL WORK INCLUDING PIPING, DRAINAGE STRUCTURES, TOPO OF POND(S), OUTLET STRUCTURES, DIMENSIONS, ELEVATIONS, GRADING ETC. RECORD DRAWINGS SHALL BE PROVIDED TO THE ENGINEER OF RECORD PRIOR TO REQUESTING FINAL INSPECTION.
20. THE CONTRACTOR SHALL ARRANGE/SCHEDULE WITH OKALOOSA COUNTY A FINAL INSPECTION OF THE DEVELOPMENT UPON COMPLETION AND ANY INTERMEDIATE INSPECTIONS. AS-BUILT CERTIFICATION IS REQUIRED PRIOR TO REQUEST FOR FINAL INSPECTION/APPROVAL.
21. ALL ASPECTS OF THE STORMWATER/DRAINAGE COMPONENTS AND/OR TRANSPORTATION COMPONENTS SHALL BE COMPLETED PRIOR TO REQUESTING A FINAL INSPECTION.
22. NO DEVIATIONS OR REVISIONS FROM THESE PLANS BY THE CONTRACTOR SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM BOTH THE DESIGN ENGINEER AND OKALOOSA COUNTY. ANY DEVIATIONS MAY RESULT IN DELAYS OF COUNTY ACCEPTANCE.
23. CONTRACTOR SHALL SAFETY-BARRICADE ALL EXCAVATIONS AND OTHER HAZARDS.
24. CONTRACTOR SHALL PROVIDE ACCESS TO PROPERTIES ADJACENT TO THE CONSTRUCTION AREAS, ADEQUATE BARRICADES, CONSTRUCTION SIGNAGE AND OTHER TRAFFIC CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH FDOT CONSTRUCTION STANDARDS. DRIVEWAY ACCESS TO ADJACENT PROPERTY SHALL BE MAINTAINED AT ALL TIMES.
25. ADEQUATE PROVISIONS SHALL BE MADE FOR THE FLOW OF SEWERS, DRAINS, WATER COURSES AND OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION.
26. ALL NEW CONCRETE FOR SITE WORK SHALL ACHIEVE A 28 DAY STRENGTH OF 3000 PSI (MIN.), UNLESS OTHERWISE SPECIFIED.
27. ALL SIDEWALKS, DRIVEWAYS AND BOARDWALKS MUST BE BUILT TO ADA STANDARDS, LATEST EDITION OF DESIGN STANDARDS AND TRANSIT FACILITY GUIDELINES.
28. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES INCLUDING, BUT NOT LIMITED TO, WATER LINES, BURIED TELEPHONE LINES, BURIED ELECTRICAL LINES AND GAS MAINS PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR IS TO COORDINATE WITH UTILITY COMPANIES FOR REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES, AERIAL LINES, BURIED CABLE AND OTHER UTILITIES.
33. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS BETWEEN CONTRACT DOCUMENTS AND EXISTING CONDITIONS. THESE DRAWINGS REPRESENT KNOW STRUCTURES AND UTILITIES LOCATED IN THE PROJECT AREA. THE CONTRACTOR IS CAUTIONED THAT OTHER STRUCTURES AND UTILITIES, ABOVE OR BELOW GROUND, MAY BE ENCOUNTERED DURING THE COURSE OF THE PROJECT. THE CONTRACTOR SHOULD NOTIFY THE UTILITY COMPANY, THEN THE ENGINEER, IMMEDIATELY UPON ENCOUNTERING ANY UNEXPECTED STRUCTURE, UTILITY LINE, OR OTHER UNUSUAL CONDITION. EXISTING CONDITIONS ARE BASED ON SURVEYS BY BASKERVILLE-DONOVAN, INC.
34. ALL CONSTRUCTION RELATED ACTIVITIES SHALL BE CONDUCTED UPLAND OF THE MEAN HIGH WATER LINE. SHOULD THERE BE ANY CONFUSION IN REGARDS TO THE RELATION OF CONSTRUCTION RELATED ACTIVITIES TO THE ESTABLISHED MEAN HIGH WATER LINE, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
35. ALL PAVEMENT CUTS SHALL BE SAW CUT WITH A WET SAW TO LIMIT DUST.
36. ALL TREES IN THE PROJECT AREA ARE TO REMAIN UNDAMAGED UNLESS NOTED FOR REMOVAL OR APPROVED BY THE ENGINEER.
37. DIESEL FUEL IS NOT TO BE USED AS A RELEASE FOR HAND TOOLS AND TRUCKS PER FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2017-2018. NO RELEASE AGENT SHOULD BE POURED ONTO SOILS OVER ASPHALT SURFACES.
38. NOTIFY SUNSHINE UTILITIES 48 HOURS IN ADVANCE PRIOR TO DIGGING WITHIN R/W; 1-800-432-4770. CONTRACTOR SHALL VERIFY DEPTH AND LOCATION AND IMMEDIATELY NOTIFY ENGINEER OF CONFLICTS.
39. POWER COMPANY TO REVIEW ALL EXISTING POWER POLES PRIOR TO CONSTRUCTION FOR POSSIBLE RELOCATION/REPLACEMENT.
40. CONTRACTOR SHALL FIELD VERIFY THE CROSS SLOPES OF ALL EXISTING DRIVEWAYS TO ENSURE ADA MAXIMUM CROSS SLOPE COMPLIANCE OF TWO PERCENT (2%).
41. CONTRACTOR SHALL FIELD VERIFY DROP-OFF HEIGHTS AT ALL NOTED PEDESTRIAN HAZARD AREAS AND INSTALL APPROPRIATE MATERIAL AS FOLLOWS:
    <5.0 FT DROP-OFF USE GUIDE RAIL FDOT INDEX 515-052 (STEEL)
    >5.0 FT DROP-OFF USE PEDESTRIAN/BICYCLE RAILINGS INDEX 515-052 (STEEL)
42. CITY SHALL OBTAIN ANY/ALL TEMPORARY CONSTRUCTION EASEMENTS NECESSARY FOR PRIVATE PROPERTY IMPACTS BEYOND THE RIGHT-OF-WAY.
43. THE CONTRACTOR SHALL EMPLOY THE USE OF SILT FENCES, HAY BALES, DITCHES OR WHATEVER MEANS NECESSARY TO CONTROL EROSION AND SEDIMENTATION AT ALL TIMES. WATERS OF THE STATE, ADJACENT PROPERTIES, AND ANY NEW DRAINAGE CONSTRUCTION SHALL BE PROTECTED DURING THE CONSTRUCTION PERIOD. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND SHALL REMAIN UNTIL THE COMPLETION OF CONSTRUCTION AND ACCEPTANCE BY THE OWNER.
44. ALL ON-SITE GRADING, DRAINAGE AND PAVEMENT WORK SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
45. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DUST CONTROL.
46. THE CONTRACTOR SHALL RESTORE ALL DISTURBED RIGHTS-OF-WAY IN ACCORDANCE WITH THE EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
47. THE CONTRACTOR SHALL HIRE A SURVEYOR LICENSED IN THE STATE OF FLORIDA IN ACCORDANCE WITH SECTION 12.0 OF THE GENERAL CONDITIONS.
48. THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS.
49. CONTRACTOR SHALL COMPLY FULLY WITH ALL PERMIT REQUIREMENTS IMPOSED BY THE REGULATORY AUTHORITIES.
50. TYPE B STABILIZATION IS INCIDENTAL TO EARTHWORK.

UTILITY NOTES:

1. THE LOCATION SHOWN FOR EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR AGREES TO BE COMPLETELY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT OCCUR BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES.
2. UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION SO THAT THE UTILITY OWNER CAN SPOT VERIFY AND/OR EXPOSE THEIR UTILITIES.
3. POWER COMPANY WILL COMPLETE ALL WORK DURING THE HOURS OF 7:30 AM – 4:30 PM, MONDAY THRU FRIDAY. NO NIGHT OR WEEKEND WORK.
4. ALL CABLE DAMAGE MUST BE REPORTED TO THE ATT FLORIDA REPAIR SERVICE DEPARTMENT AT 611 FROM A LAND LINE OR 877-737-2478 IF USING A CELL PHONE.
5. CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.
6. UTILITIES TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. NECESSARY REPAIRS SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS AND SHALL BE TO THE SATISFACTION OF UTILITY OWNERS.
7. AT&T FLORIDA WILL COMPLETE ALL WORK DURING THE HOURS OF 7:30 AM – 4:30 PM, MONDAY THRU FRIDAY. NO NIGHT OR WEEKEND WORK.

UTILITY CONTACT INFORMATION

UTILITY	ADDRESS	CONTACT NAME	PHONE NUMBER
WATER AND SANITARY SEWER	P.O. BOX 308, DESTIN, FL 32541	DESTIN WATER USERS	(850) 837-6146
POWER	34854 EMERALD COAST PARKWAY, DESTIN, FL 32541	FLORIDA POWER & LIGHT	(800) 225-5797
NATURAL GAS	364 VALPARAISO PARKWAY, VALPARAISO, FL 32580	OKALOOSA GAS DISTRICT	(850) 729-4700
TELECOMMUNICATIONS	3405 MCLEMORE DRIVE, PENSACOLA, FL 32514	COX COMMUNICATIONS, INC.	(850) 857-4571

STORMWATER NOTES:

1. CONTRACTOR SHALL OBTAIN A NPDES PERMIT FROM FDEP PRIOR TO COMMENCEMENT WORK.
2. ALL PIPE JOINTS, INCLUDING CONNECTIONS TO STRUCTURES, SHALL BE WRAPPED WITH FILTER FABRIC IN ACCORDANCE WITH FDOT DESIGN STANDARDS AND THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
1401 PANAMA CITY BEACH PARKWAY - SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-8150
ENGINEERING BUSINESS: EB-0000340
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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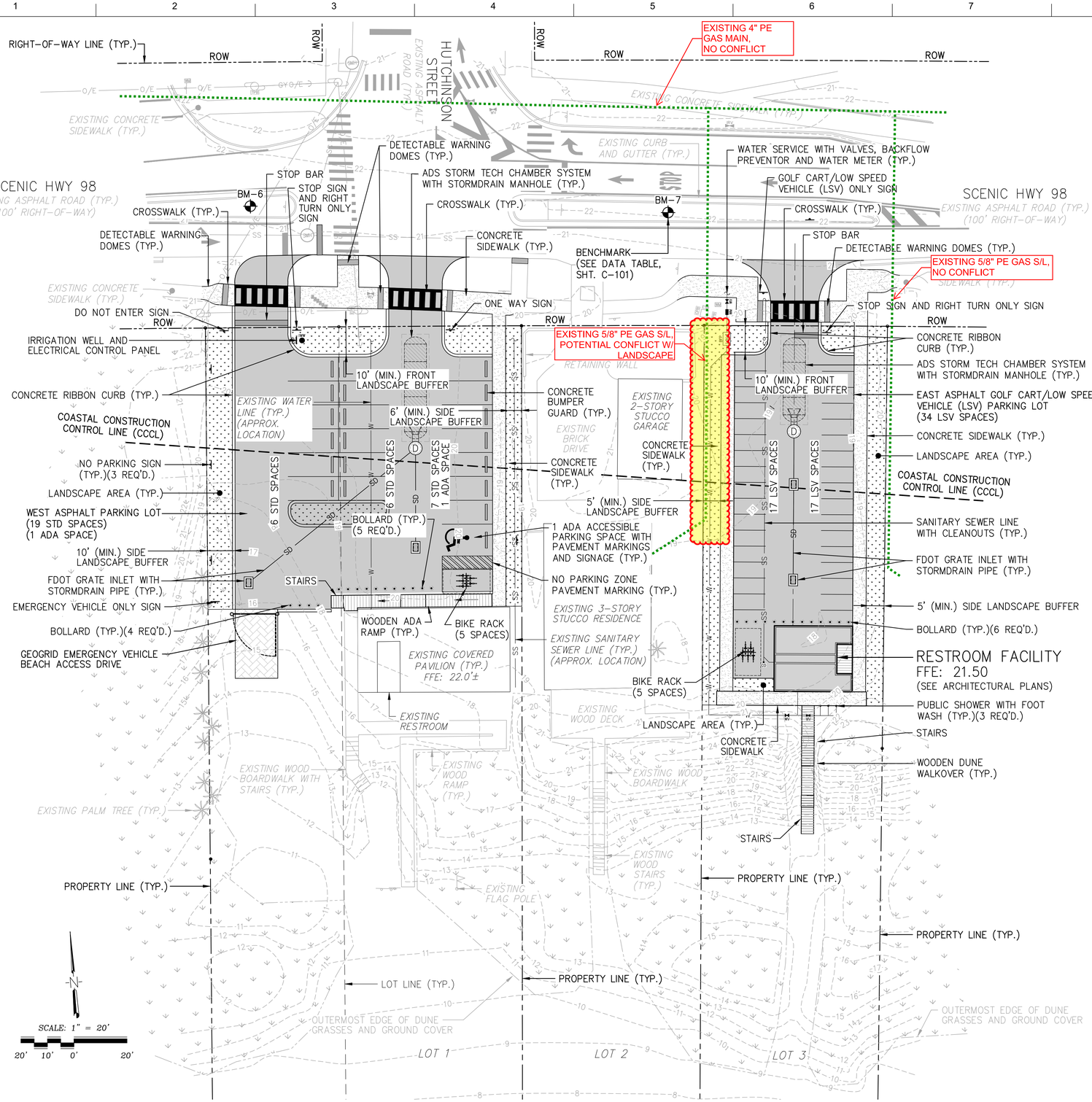
NOT RELEASED FOR CONSTRUCTION

PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR.: JCP
DATE: JULY 2025

GENERAL NOTES

G-001

100% SUBMITTAL



LEGEND

- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- GEOGRID
- LANDSCAPED AREA
- WOODEN BOARDWALK
- ADS STORM TECH CHAMBER SYSTEM

SITE DATA TABLE

PARCEL ID:
00-2S-22-0590-000-00CA, 00-2S-22-0584-0000-0010,
00-2S-22-0584-0000-0030

LAND USE:
MIXED USE: (CURRENT)
MIXED USE: (FUTURE)
ZONING: COASTAL CENTER

FLOOD ZONE: X * & ZONE VE 16

BUILDING SETBACKS REQUIRED:
FRONT = NONE
SIDE = NONE
REAR = NONE
(DESTIN LAND DEVELOPMENT CODE SECTION 7.12.08 DIMENSIONAL REQUIREMENTS. TABLE 7-3 FOR REC ZONE.)

BUILDING SETBACKS PROVIDED FOR EXISTING WEST BUILDING:
ROW TO NORTH SIDE OF BLDG = 106.4± FEET
EAST PROPERTY LINE TO EAST SIDE OF BLDG = 4.5± FEET
WEST PROPERTY LINE TO WEST SIDE OF BLDG = 56.2± FEET

BUILDING SETBACKS PROVIDED FOR EAST BUILDING:
ROW TO NORTH SIDE OF BLDG = 115.8± FEET
EAST PROPERTY LINE TO EAST SIDE OF BLDG = 11.7± FEET
WEST PROPERTY LINE TO WEST SIDE OF BLDG = 27.1± FEET

BUILDING INFORMATION: PROPOSED RESTROOM FACILITY
BUILDING HEIGHT:
ALLOWED: 35'
PROPOSED: 15'
BUILDING STORIES:
ALLOWED: 3
PROPOSED: 1

GROSS FLOOR AREA: (WEST: 2158.3± SQ. FT.)
(EAST: 603.6± SQ. FT.)

TOTAL SITE AREA: (WEST: 47796.83 SQ. FT. OR 1.10 AC.)
(EAST: 30632.62 SQ. FT. OR 0.70 AC.)

MAX. FLOOR AREA RATIO: 20%

FLOOR AREA RATIO PROPOSED: (WEST: 4.5%) (EAST: 2.0%)

IMPERVIOUS AREA ALLOWED: (WEST: 35847.62 SQ. FT. OR 75%)
(EAST: 22974.47 SQ. FT. OR 75%)

IMPERVIOUS AREA PROPOSED: (WEST: 12885.86 SQ. FT. OR 27%)
(EAST: 7494.62 SQ. FT. OR 24%)

OPEN SPACE PROVIDED: (WEST: 34910.97 SQ. FT. OR 73%)
(EAST: 23182.00 SQ. FT. OR 76%)

PARKING

PARKING REQUIRED:
1 SPACE PER 150 SQ. FT. OF GROSS FLOOR AREA: (WEST: 13 SPACES)
(EAST: 5 SPACES)

PARKING PROVIDED:
REGULAR SPACES: (WEST: 19 SPACES)
ADA SPACES: (WEST: 1 SPACE)
LSV SPACES: (EAST: 32 SPACES)
BICYCLE PARKING SPACES: (WEST: 5 SPACES) (EAST: 5 SPACES)

* THIS PARCEL APPEARS TO LIE IN FLOOD ZONE X (NO MINIMUM FLOOD ELEVATION REQUIRED) AS DETERMINED FROM FEMA FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 12091C0493J, REVISED MARCH 9, 2021.

SIGNS

SIGNS PROVIDED:
DO NOT ENTER SIGNS: (WEST: 2 SIGNS)
RIGHT TURN ONLY SIGN: (WEST: 1 SIGN) (EAST: 1 SIGN)
(R7-8) ADA HANDICAPPED PARKING SIGN: (WEST: 1 SIGN)
(R8-3A) NO PARKING SIGN: (WEST: 3 SIGNS)
EMERGENCY VEHICLE ACCESS ONLY SIGN: (WEST: 1 SIGN)
(R1-1) STOP SIGN: (WEST: 1 SIGNS) (EAST: 1 SIGN)
LOW SPEED VEHICLE (LSV) PARKING ONLY SIGN: (EAST: 1 SIGN)

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
1410 I PANAMA CITY BEACH PARKWAY, SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-0150
FLORIDA CERTIFICATE OF AUTHORIZATION #00000670
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

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1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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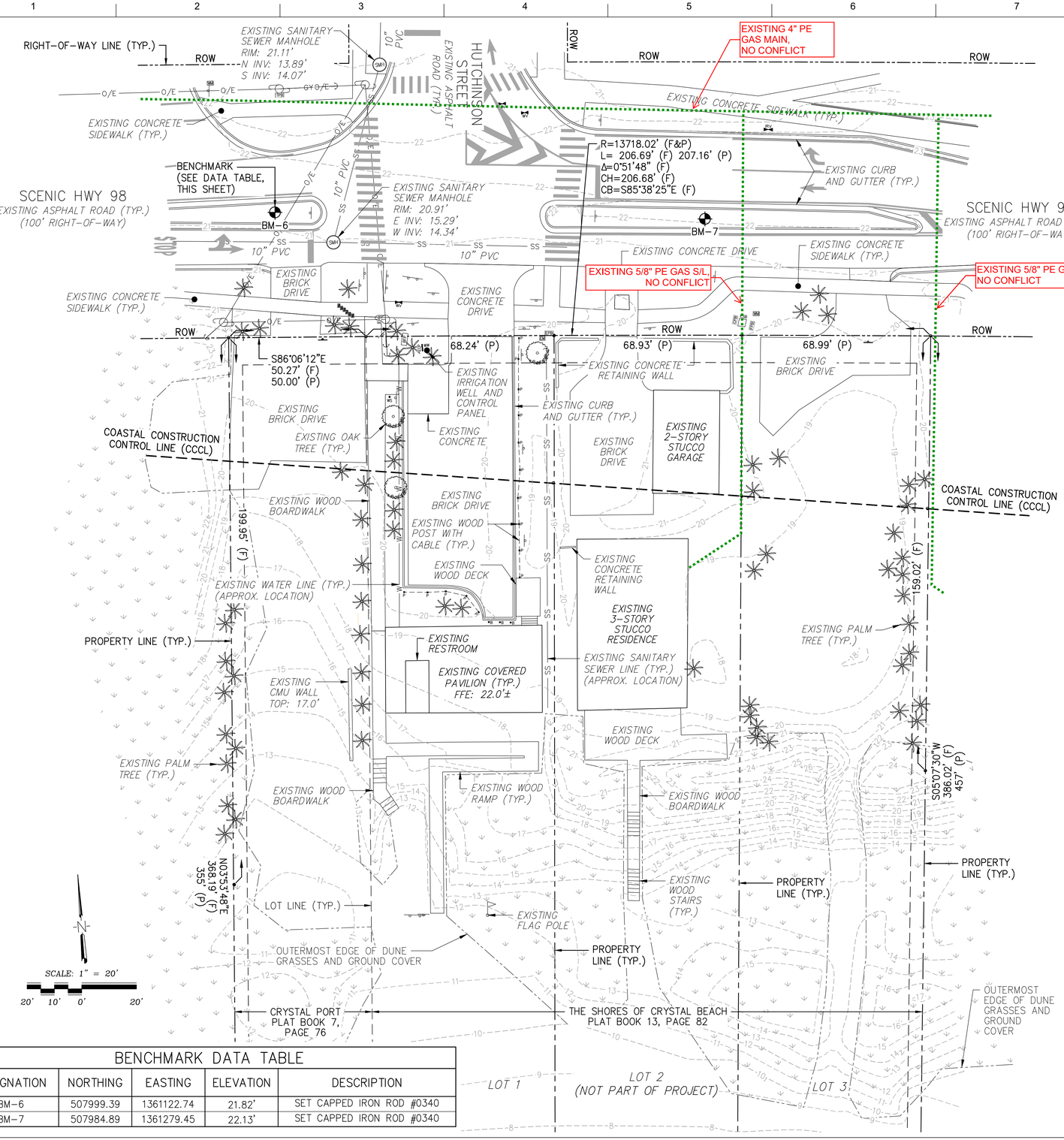
PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: JULY 2025

PROJECT OVERVIEW

C-100



BENCHMARK DATA TABLE				
DESIGNATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM-6	507999.39	1361122.74	21.82'	SET CAPPED IRON ROD #0340
BM-7	507984.89	1361279.45	22.13'	SET CAPPED IRON ROD #0340

ABBREVIATION LEGEND

ROW	OR	R/W	RIGHT OF WAY
	INV		INVERT
EL	OR	ELEV	ELEVATION
	O.R.		OFFICIAL RECORDS BOOK
	(P)		PLAT
	(F)		FIELD
	(D)		DEED
	R		RADIUS
	Δ		DELTA
	L		LENGTH
	C		CHORD
	CH		CHORD BEARING

SURVEY SYMBOL LEGEND

- SET CAPPED IRON ROD #0340
- FOUND IRON ROAD AND CAP
- FOUND IRON ROD AND CAP
- FOUND CRIMP TOP PIPE
- FOUND IRON ROD
- FOUND OPEN TOP PIPE
- FOUND CONCRETE MONUMENT
- SET NAIL AND DISK
- RIGHT OF WAY
- PROPERTY LOT LINE
- PROPERTY LINE
- MEAN HIGH WATER LINE
- COASTAL CONSTRUCTION CONTROL LINE (CCCL)
- LANDSCAPE BUFFER SETBACK
- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- SIGN (SINGLE SUPPORT)
- SIGN (MULTI SUPPORT)
- WOODEN POST CONNECTION CABLE
- WOODEN POST
- BOLLARD
- DUNE GRASS
- TREE – OAK
- TREE – PINE
- FLAG POLE
- SS — SANITARY SEWER LINE
- SMH — SANITARY SEWER MANHOLE
- IRV — IRRIGATION VALVE
- W — WATER LINE
- BFP — WATER BACKFLOW PREVENTOR
- WV — WATER VALVE
- WM — WATER METER
- WS — WATER SHOWER STATION
- O/E — OVERHEAD ELECTRICAL LINE
- GY — GUYWIRE
- ELECTRICAL POWER POLE
- EPB — ELECTRICAL WIRE PULL BOX
- ESB — ELECTRICAL SERVICE BOX
- TPB — TELEPHONE WIRE PULL BOX
- FPB — FIBER OPTIC WIRE PULL BOX
- CPB — CABLE TV WIRE PULL BOX

SURVEYOR'S NOTES:

1. NORTH AND THE SURVEY DATUM SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) AND EXISTING FIELD MONUMENTATION.
2. THE ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. NO TITLE SEARCH, TITLE OPINION, OR ABSTRACT WAS PERFORMED BY NOR PROVIDED TO THIS FIRM FOR THE SUBJECT PROPERTY. THERE MAY BE DEEDS OF RECORD, UNRECORDED DEEDS, EASEMENTS, RIGHTS-OF-WAY, BUILDING SETBACKS, RESTRICTIVE COVENANTS OR OTHER INSTRUMENTS WHICH COULD AFFECT THE BOUNDARIES OR USE OF THE SUBJECT PROPERTY.
4. THE FIELD SURVEY SHOWN HEREON WAS PERFORMED IN AUGUST 2021 AND RECORDED IN FIELD BOOK 21-06, PAGES 12-18.
5. THE ABOVE GROUND UTILITIES SHOWN HEREON WERE BASED ON VISIBLE FIELD LOCATION. ANY SUBSURFACE UTILITIES SHOWN HEREIN SHOULD BE VERIFIED BY THE CONTRACTOR.
6. ALL DISTANCES ARE EXPRESSED IN FEET AND DECIMAL PARTS THEREOF.
7. SOIL BORING AND TEST PIT LOGS AND LABORATORY DATA CAN BE FOUND IN THE GEOTECHNICAL REPORT.

PROPERTY DESCRIPTIONS:

(O.R. BOOK 3502, PAGE 1397)
UNITS A, B, C, D, E, AND COMMON AREA OF CRYSTAL PORT, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 7, PAGE 76, OF THE PUBLIC RECORD OF OKALOOSA COUNTY, FLORIDA.

AND ALSO:

(O.R. BOOK 2517, PAGE 3684)
LOT 1, THE SHORES OF CRYSTAL BEACH, A PLANNED UNIT DEVELOPMENT, A RESUBDIVISION OF A PORTION OF BLOCK B, CRYSTAL BEACH SUBDIVISION ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 13, PAGE 82 OF THE PUBLIC RECORD OF OKALOOSA COUNTY, FLORIDA.

AND ALSO:

(O.R. BOOK 3506, PAGE 695)
LOT 3, THE SHORES OF CRYSTAL BEACH, A PLANNED UNIT DEVELOPMENT, A RESUBDIVISION OF A PORTION OF BLOCK B, CRYSTAL BEACH SUBDIVISION ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 13, PAGE 82 OF THE PUBLIC RECORD OF OKALOOSA COUNTY, FLORIDA.
PARCEL ID NO.
00-2S-22-0584-0000-0030

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
14101 PANAMA CITY BEACH PARKWAY SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-0150
FLORIDA CERTIFICATE OF AUTHORIZATION #3145
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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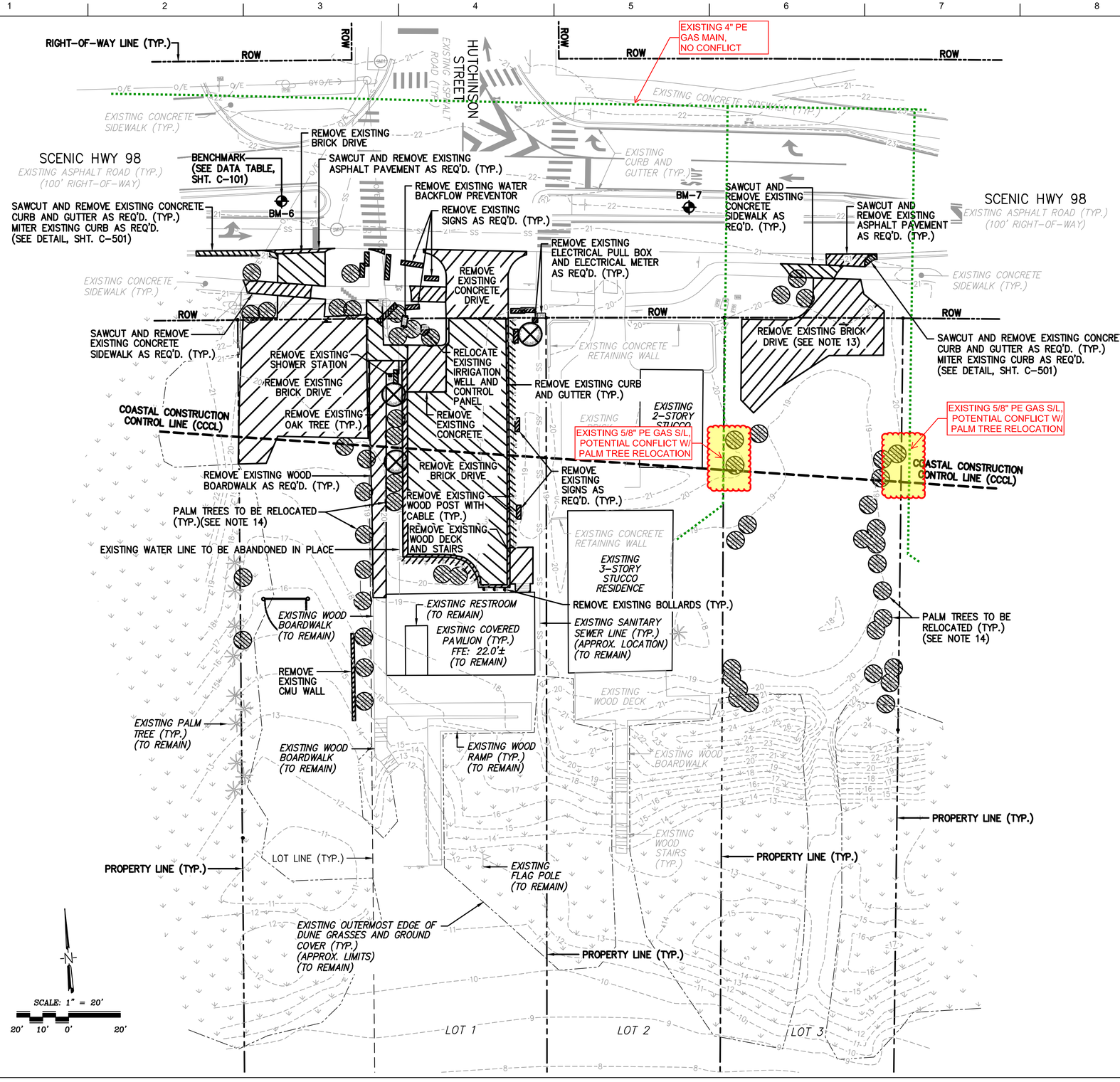
NOT RELEASED FOR CONSTRUCTION

PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: JULY 2025

EXISTING CONDITIONS

C-101



DEMOLITION NOTES:

1. SEE SHEET C-101 FOR SURVEY BENCHMARKS, SURVEY SYMBOL LEGEND AND ABBREVIATION LEGEND.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE ACCURACY OF THE EXISTING SITE INFORMATION SHOWN HERE IN. ANY CHANGED OR ALTERED SITE CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE COUNTY AND CITY IMMEDIATELY.
3. ALL EXISTING DEBRIS AND DEBRIS FROM CONSTRUCTION OPERATIONS SHALL BE DISPOSED OF OFF-SITE AT THE CONTRACTOR'S EXPENSE.
4. TOPSOIL SUITABLE FOR REUSE SHALL BE STOCKPILED ON-SITE IN AN APPROVED LOCATION AND REDISTRIBUTED OVER ALL DISTURBED AREAS IN ONE 4" LAYER, (LOOSE THICKNESS).
5. ALL WORK ADJACENT TO OR ON EXISTING ROADWAYS SHALL COMPLY WITH CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS FOR TRAFFIC CONTROL AND SAFETY. THE CONTRACTOR SHALL HOLD THE COUNTY AND CITY HARMLESS FOR ANY INCIDENT OCCURRING ON OR ADJACENT TO THE PROJECT SITE.
6. EXISTING TREES SHOWN OUTSIDE THE LIMITS OF CLEARING AND GRUBBING ARE TO REMAIN. PRIOR TO SITE CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL CLEARLY IDENTIFY THE CLEARING LIMITS.
7. CLEARING AND GRUBBING OF TREES AND SHRUBS NOT OTHERWISE IDENTIFIED SHALL BE LIMITED TO THAT WHICH IS ABSOLUTELY REQUIRED FOR NEW CONSTRUCTION. ANY ADDITIONAL CLEARING AND/OR GRUBBING OF TREES SHALL BE COMPLETED AS APPROVED BY THE COUNTY AND CITY.
8. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL LOCATE ALL UTILITIES. ANY UTILITY ADJUSTMENTS, EXISTING OR PROPOSED, REQUIRED TO COMPLETE CONSTRUCTION UNDER THIS CONTRACT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, THE TEMPORARY RELOCATION OF EXISTING OVERHEAD POWER LINES. ALL WORK IN THE VICINITY OF OVERHEAD POWER LINES SHALL CONFORM TO APPLICABLE (LOCAL) SAFETY REQUIREMENTS. THE CONTRACTOR IS TO REPAIR DAMAGES TO EXISTING UTILITIES THAT ARE TO REMAIN IN SERVICE IMMEDIATELY AT NO ADDITIONAL COSTS OR EXPENSE TO THE COUNTY AND CITY.
9. REFER TO ELECTRICAL, COMMUNICATIONS AND OTHER DISCIPLINES FOR UTILITIES REQUIRING REMOVAL, COORDINATION AND/OR RELOCATION.
10. THE CONSTRUCTION CONTRACTOR SHALL INVESTIGATE, MARK, AND PROTECT IN PLACE, AS NEEDED, ALL APPLICABLE EXISTING UNDERGROUND UTILITIES THAT ARE TO REMAIN IN PLACE/SERVICE DURING CONSTRUCTION OPERATIONS THAT MAY BE SUBJECT TO DAMAGE DUE TO THE ONGOING CONSTRUCTION OPERATIONS.
11. CONTRACTOR SHALL SAW CUT THE LIMITS OF ASPHALT PAVEMENT TO BE REMOVED AND PROTECT EDGE OF ASPHALT FROM DAMAGE. ANY DAMAGE TO THE SAW CUT LINE SHALL REQUIRE THE CONTRACTOR TO RE-SAW CUT A NEW LINE BEFORE PLACEMENT OF NEW ASPHALT PAVEMENT.
12. ACTUAL AMOUNT OF ASPHALT PAVEMENT REMOVAL WILL VARY DEPENDING ON THE TYPE OF EQUIPMENT AND CONSTRUCTION TECHNIQUE USED BY THE CONTRACTOR FOR INSTALLATION OF THE NEW SITE LAYOUT.
13. THERE ARE STRUCTURES THAT HAVE BEEN PREVIOUSLY DEMOLISHED AS SHOWN ON THE CRITERIA DOCUMENT. IT IS NOT KNOWN TO WHAT EXTENT THAT DEMOLITION OCCURRED. REMAINING PORTIONS OF THOSE STRUCTURES MAY INTERFERE WITH THE CONSTRUCTION OF THE NEW LAYOUT AND MUST BE REMOVED TO THE EXTENT NECESSARY TO ACCOMPLISH THE NEW WORK.
14. CONTRACTOR SHALL RELOCATE ALL PALM TREES WHICH IS ABSOLUTELY REQUIRED FOR NEW CONSTRUCTION. PALM TREES SHALL BE RELOCATED AND APPROVED BY THE COUNTY AND CITY.

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
14101 PANAMA CITY BEACH PARKWAY, SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-0150
FLORIDA CERTIFICATE OF AUTHORIZATION #00002945
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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NOT RELEASED FOR CONSTRUCTION

PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: JULY 2025

DEMOLITION PLAN

C-102

NOTE:
SEE SHEET C-104 FOR GEOMETRY NOTES.

XX DENOTES GEOMETRIC POINT (SEE SHEET C-104 FOR GEOMETRIC DATA TABLES)

BM-6

BM-7

BENCHMARK (SEE DATA TABLE, SHT. C-101)

RELOCATE STOP BAR HERE

EXISTING STOP BAR (TO BE RELOCATED)

12" CONCRETE RIBBON CURB (TYP.)(SEE DETAILS, SHT. C-501)

CROSSWALK (TYP.)

DETECTABLE WARNING DOMES (TYP.)

10' (MIN.) FRONT LANDSCAPE BUFFER (TYP.)

CONCRETE SIDEWALK (TYP.)(SEE DETAILS, SHT. C-512)

EXISTING CONCRETE PAVEMENT

SCENIC HWY 98
EXISTING ASPHALT ROAD (TYP.)
(100' RIGHT-OF-WAY)

EXISTING CURB AND GUTTER (TYP.)

RIGHT TURN ONLY SIGN

GOLF CART/LOW SPEED VEHICLE (LSV) ONLY SIGN

CROSSWALK (TYP.)

DETECTABLE WARNING DOMES (TYP.)

SIDEWALK TRANSITION

EXISTING 5/8" PE GAS S/L, NO CONFLICT

DO NOT ENTER SIGN

STOP BAR

STOP SIGN AND RIGHT TURN ONLY SIGN

ONE WAY SIGN

CONCRETE RIBBON CURB (TYP.)

EXISTING CONCRETE DRIVE (TYP.)

EXISTING 6' CONCRETE SIDEWALK (TYP.)

LANDSCAPE AREA (TYP.)

NO PARKING SIGN

10' (MIN.) FRONT LANDSCAPE BUFFER (TYP.)

12" CONCRETE RIBBON CURB (TYP.)(SEE DETAILS, SHT. C-501)

CONCRETE SIDEWALK (TYP.)(SEE DETAILS, SHT. C-512)

EXISTING 5/8" PE GAS S/L, POTENTIAL CONFLICT W/ LANDSCAPE

PROPERTY LINE (TYP.)

EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT (34 LSV SPACES) (SEE PAVEMENT SECTION, C-300)

WEST ASPHALT PARKING LOT (19 STD SPACES) (1 ADA SPACE) (SEE PAVEMENT SECTION, C-300)

CONCRETE BUMPER GUARD (TYP.) (SEE DETAILS, SHT. C-511)

12" CONCRETE RIBBON CURB (TYP.)(SEE DETAILS, SHT. C-501)

1 ADA ACCESSIBLE PARKING SPACE WITH PAVEMENT MARKINGS AND SIGNAGE (TYP.) (SEE DETAILS, SHTS. C-702 THRU C-705)

NO PARKING ZONE PAVEMENT MARKING (TYP.) (SEE DETAILS, SHT. C-701)

CONCRETE SIDEWALK (TYP.)(SEE DETAILS, SHT. C-512)

5' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)

BOLLARD (TYP.) (4 REQ'D.) (SEE DETAILS, SHT. C-501)

16' SINGLE ARM SWING GATE (BY OTHERS)

EMERGENCY VEHICLE ONLY SIGN

BOLLARD (TYP.)(9 REQ'D.) (SEE DETAILS, SHT. C-501)

BOLLARD (TYP.) (11 REQ'D.) (SEE DETAILS, SHT. C-501)

BIKE RACK (5 SPACES) (SEE DETAILS, SHT. C-502)

WOODEN STAIRS (TYP.)(SEE STRUCTURAL PLANS)

WOODEN ADA RAMP (TYP.) (SEE STRUCTURAL PLANS)

EXISTING COVERED PAVILION (TYP.)

EXISTING RESTROOM

RESTROOM FACILITY (SEE ARCHITECTURAL PLANS)

PUBLIC SHOWER WITH FOOT WASH (TYP.)(3 REQ'D.) (SEE DETAILS, SHT. CU-502)

WOODEN DUNE WALKOVER (TYP.) (SEE STRUCTURAL PLANS)

CONCRETE SIDEWALK (SEE THICKENED EDGE CONCRETE SIDEWALK DETAIL SHEET C-300)

GEOGRID EMERGENCY VEHICLE BEACH ACCESS DRIVE (SEE PAVEMENT SECTION, C-300)

EXISTING WOOD RAMP (TYP.)

SCALE: 1" = 10'

BASKERVILLE-DONOVAN, INC.
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1410 I PANAMA CITY BEACH PARKWAY, SUITE 110,
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FLORIDA CERTIFICATE OF AUTHORIZATION #00000670
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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NOT RELEASED FOR CONSTRUCTION

PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: JULY 2025

GEOMETRY PLAN

C-103

NOTE:

SEE SHEET C-107 FOR GRADING AND STORM DRAINAGE NOTES.

S-XX DENOTES STORM DRAINAGE STRUCTURE

P-X DENOTES STORM DRAINAGE PIPE

BM-6

BM-7

BENCHMARK (SEE DATA TABLE, SHT. C-101)

SCENIC HWY 98
EXISTING ASPHALT ROAD (TYP.)
(100' RIGHT-OF-WAY)

EXISTING CONCRETE PAVEMENT

EXISTING CURB AND GUTTER (TYP.)

MATCH EXISTING (20.21±)

MATCH EXISTING (20.67±)

MATCH EXISTING (20.68±)

MATCH EXISTING (20.68±)

MATCH EXISTING (20.72±)

CONCRETE SIDEWALK (TYP.)

MATCH EXISTING (20.63±)

MATCH EXISTING (20.13±)

MATCH EXISTING (20.94±)

MATCH EXISTING (21.17±)

10' (MIN.) FRONT LANDSCAPE BUFFER (TYP.)

MATCH EXISTING (21.22±)

MATCH EXISTING (20.75±)

MATCH EXISTING (20.66±)

MATCH EXISTING (20.72±)

MATCH EXISTING (20.53±)

MATCH EXISTING (20.40±)

EXISTING CONCRETE DRIVE (TYP.)

EXISTING CONCRETE SIDEWALK (TYP.)

MATCH EXISTING (20.33±)

MATCH EXISTING (20.42±)

MATCH EXISTING (20.36±)

MATCH EXISTING (20.72±)

MATCH EXISTING (20.04±)

EXISTING 5/8" PE GAS S/L. NO CONFLICT

20.58

20.41

ROW

MATCH EXISTING (20.53±)

MATCH EXISTING (20.39±)

MATCH EXISTING (20.27±)

MATCH EXISTING (20.05±)

20.20

20.00

20.16

20.11

20.13

19.97

19.94

20.02

20.07

19.79

20.00

CONC: 20.12
ASP: 19.79

LANDSCAPE AREA (TYP.)

IRRIGATION WELL AND ELECTRICAL CONTROL PANEL

CONCRETE RIBBON CURB (TYP.)

10' (MIN.) FRONT LANDSCAPE BUFFER (TYP.)

EXISTING CONCRETE RETAINING WALL (TYP.)

EXISTING CONCRETE RETAINING WALL (TYP.)

EXISTING 5/8" PE GAS S/L, POTENTIAL CONFLICT W/ LANDSCAPE AND WATER SERVICE

5' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)

ADS STORM TECH CHAMBER SYSTEM (TYP.)(SEE SHT. C-107, NOTE 6)

ADS STORM TECH CHAMBER SYSTEM (TYP.)(SEE SHT. C-107, NOTE 6)

CONCRETE SIDEWALK (TYP.)

EXISTING BRICK DRIVE (TYP.)

EXISTING 2-STORY STUCCO GARAGE

LANDSCAPE AREA (TYP.)

EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT (SEE PAVEMENT SECTION, C-300)

COASTAL CONSTRUCTION CONTROL LINE (CCCL)

S-3

FDOT TYPE 8 STORMDRAIN MANHOLE WITH WEEP HOLE AND WEIR (TYP.) (SEE SHT. C-107, NOTE 6)

FDOT TYPE 8 STORMDRAIN MANHOLE WITH WEEP HOLE AND WEIR (TYP.) (SEE SHT. C-107, NOTE 6)

S-6

P-4

STORMDRAIN PIPE (TYP.)

P-2

STORMDRAIN PIPE (TYP.)

S-5

WEST ASPHALT PARKING LOT (SEE PAVEMENT SECTION, C-300)

EXISTING WATER LINE (TYP.) (APPROX. LOCATION)

12" CONCRETE RIBBON CURB

P-1

S-2

19.29

19.41

19.17

19.29

6' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)

PROPERTY LINE (TYP.)

20.28

CONC: 20.40
ASP: 20.07

20.70

CONC: 20.40
ASP: 20.07

5' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)

10' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)

EXISTING CONCRETE RETAINING WALL (TYP.)

CONCRETE SIDEWALK (TYP.)

P-3

S-1

S-4

BOLLARD (TYP.)

LANDSCAPE AREA (TYP.)

FDOT TYPE C GRATE INLET (TYP.) (SEE DETAILS, SHTS. C-509 THRU C-511)

MATCH EXISTING (TYP.)

ASP: 19.04

BIKE RACK

ASP: 18.28

ASP: 18.40

ASP: 19.18

19.40

19.40

19.40

CONC: 20.58
ASP: 20.25

20.46

19.46

CONC: 20.58
ASP: 20.25

20.46

19.46

FDOT TYPE C GRATE INLET (TYP.) (SEE DETAILS, SHTS. C-509 THRU C-511)

WATER SERVICE WITH VALVES, BACKFLOW PREVENTOR AND WATER METER (TYP.)

EXISTING 3-STORY STUCCO RESIDENCE

SANITARY SEWER LINE WITH CLEANOUTS (TYP.)

BOLLARD (TYP.)

CONC: 21.00
ASP: 20.67

20.09

20.02

21

19.88

20.89

21.26

20.26

BIKE RACK

RESTROOM FACILITY
FFE: 21.50
(SEE ARCHITECTURAL PLANS)

21.38

21.48

21.26

20.26

20.47

20.80

21.38

21.00

21.00

PROPERTY LINE (TYP.)

LANDSCAPE AREA (TYP.)

20.38

20.50

PUBLIC SHOWER WITH FOOT WASH (TYP.)

20.88

WOODEN STAIRS (TYP.) (SEE STRUCTURAL PLANS)

BOLLARD (TYP.)

WOODEN ADA RAMP (TYP.) (SEE STRUCTURAL PLANS)

PROPERTY LINE (TYP.)

GEOGRID EMERGENCY VEHICLE BEACH ACCESS DRIVE (SEE PAVEMENT SECTION, C-300)

17.80

EXISTING SANITARY SEWER LINE (TYP.) (APPROX. LOCATION)

EXISTING COVERED PAVILION (TYP.) FFE: 22.0±

EXISTING PALM TREE (TYP.)

EXISTING RESTROOM

EXISTING WOOD RAMP (TYP.)

EXISTING WOOD DECK (TYP.)

CONCRETE SIDEWALK

WOODEN DUNE WALKOVER (TYP.) (SEE STRUCTURAL PLANS)

SCALE: 1" = 10'

10' 5' 0' 10'

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PANAMA CITY | DESTIN | PENSACOLA | PANAMA CITY BEACH | TALLAHASSEE - MOBILE

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SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
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PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: JULY 2025

GRADING AND STORM DRAINAGE PLAN

C-105

100% SUBMITTAL

COASTAL CONSTRUCTION CONTROL LINE (CCCL)

LANDSCAPE AREA (TYP.)

CONCRETE RIBBON CURB (TYP.)

WEST ASPHALT PARKING LOT (SEE PAVEMENT SECTION, C-300)

12" CONCRETE RIBBON CURB

10' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)

FDOT TYPE C GRATE INLET (TYP.) (SEE DETAILS, SHTS. C-509 THRU C-511)

GEOGRID EMERGENCY VEHICLE BEACH ACCESS DRIVE (SEE PAVEMENT SECTION, C-300)

PROPERTY LINE (TYP.)

EXISTING PALM TREE (TYP.)

EXISTING DUNE GRASS (TYP.) (APPROXIMATE LIMITS)

S-1, S-2, S-3

P-1, P-2

FDOT TYPE 8 STORMDRAIN MANHOLE WITH WEEP HOLE AND WEIR (TYP.) (SEE SHT. C-107, NOTE 6)

EXISTING WATER LINE (TYP.) (APPROX. LOCATION)

STORMDRAIN PIPE (TYP.)

BOLLARD (TYP.)

MATCH EXISTING (TYP.)

ASP: 18.28

ASP: 18.40

ASP: 19.04

ASP: 19.18

17.80

19.40

BIKE RACK

WOODEN STAIRS (TYP.) (SEE STRUCTURAL PLANS)

WOODEN ADA RAMP (TYP.) (SEE STRUCTURAL PLANS)

EXISTING COVERED PAVILION (TYP.) FFE: 22.0±

EXISTING RESTROOM

EXISTING WOOD RAMP (TYP.)

EXISTING WOOD BOARDWALK WITH STAIRS (TYP.)

EXISTING WOOD RAMP (TYP.)

EXISTING SIGN (TYP.)

EXISTING FLAG POLE

EXISTING BRICK DRIVE (TYP.)

EXISTING 2-STORY STUCCO GARAGE

LANDSCAPE AREA (TYP.)

6' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)

EXISTING CONCRETE RETAINING WALL (TYP.)

CONCRETE SIDEWALK (TYP.)

EXISTING SANITARY SEWER LINE (TYP.) (APPROX. LOCATION)

EXISTING 3-STORY STUCCO RESIDENCE

EXISTING WOOD DECK (TYP.)

EXISTING WOOD BOARDWALK (TYP.)

EXISTING WOOD STAIRS (TYP.)

EAST ASPHALT GOLF CART/LOW SPEED VEHICLE (LSV) PARKING LOT (SEE PAVEMENT SECTION, C-300)

EXISTING 5/8" PE GAS S/L, POTENTIAL CONFLICT W/ LANDSCAPE AND WATER SERVICE

CONC: 20.40
ASP: 20.07

20.25

LANDSCAPE AREA (TYP.)

CONCRETE SIDEWALK (TYP.)

CONC: 20.58
ASP: 20.25

20.46

19.46

WATER SERVICE WITH VALVES, BACKFLOW PREVENTOR AND WATER METER (TYP.)

SANITARY SEWER LINE WITH CLEANOUTS (TYP.)

20.09

20.02

BIKE RACK

5' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)

20.47

20.80

LANDSCAPE AREA (TYP.)

21.00

20.38

20.50

CONCRETE SIDEWALK

P-3, P-4

S-4, S-5

STORMDRAIN PIPE (TYP.)

BOLLARD (TYP.)

RESTROOM FACILITY FFE: 21.50 (SEE ARCHITECTURAL PLANS)

21.38

21.48

21.00

PUBLIC SHOWER WITH FOOT WASH (TYP.)

WOODEN STAIRS (TYP.) (SEE STRUCTURAL PLANS)

WOODEN DUNE WALKOVER (TYP.) (SEE STRUCTURAL PLANS)

WOODEN STAIRS (TYP.) (SEE STRUCTURAL PLANS)

PROPERTY LINE (TYP.)

CONCRETE SIDEWALK (TYP.)

COASTAL CONSTRUCTION CONTROL LINE (CCCL)

CONC: 20.40
ASP: 20.07

5' (MIN.) SIDE LANDSCAPE BUFFER (TYP.)

EXISTING 5/8" PE GAS S/L, NO CONFLICT

CONC: 20.58
ASP: 20.25

20.46

19.46

FDOT TYPE C GRATE INLET (TYP.) (SEE DETAILS, SHTS. C-509 THRU C-511)

CONC: 21.00
ASP: 20.67

19.88

20.89

21.26

20.26

21.38

21.48

21.26

20.26

LANDSCAPE AREA (TYP.)

20.88

PROPERTY LINE (TYP.)

NOTE:

SEE SHEET C-107 FOR GRADING AND STORM DRAINAGE NOTES.

S-XX DENOTES STORM DRAINAGE STRUCTURE

P-X DENOTES STORM DRAINAGE PIPE

SCALE: 1" = 10'

10' 5' 0' 10'

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
1410 I PANAMA CITY BEACH PARKWAY, SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-0150
FLORIDA CERTIFICATE OF AUTHORIZATION #00000670
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

SEAL

SHORE AT CRYSTAL BEACH EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN
1	05/2025	JCP	SITE LAYOUT REVISED PER CITY & COUNTY COMMENTS

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PROJECT NO: 12105.02
DESIGNED BY: RAS
DRAWN BY: JJ
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: JULY 2025

GRADING AND STORM DRAINAGE PLAN

C-106

100% SUBMITTAL



1 EXISTING CONDITIONS PLAN
Scale: 1" = 30'

0 30' 60'

NORTH

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A Landscape Development Plan for
Shores at Crystal Beach Park Expansion
Destin, Florida

Revisions

No.	Date	Revisions / Submissions
	02.26.25	PRELIMINARY DESIGN – PD100
	03.25.25	REVIEW SET–CD095
	05.23.25	CD100
	07.21.25	CD100 – REV 01

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DM
Project Manager
CW
Principal
252066-004
Project No.
02.11.25
Date

Registration – FL LA6666896

Lester C Watkins
2025.07.21 11:26:18-05'00'

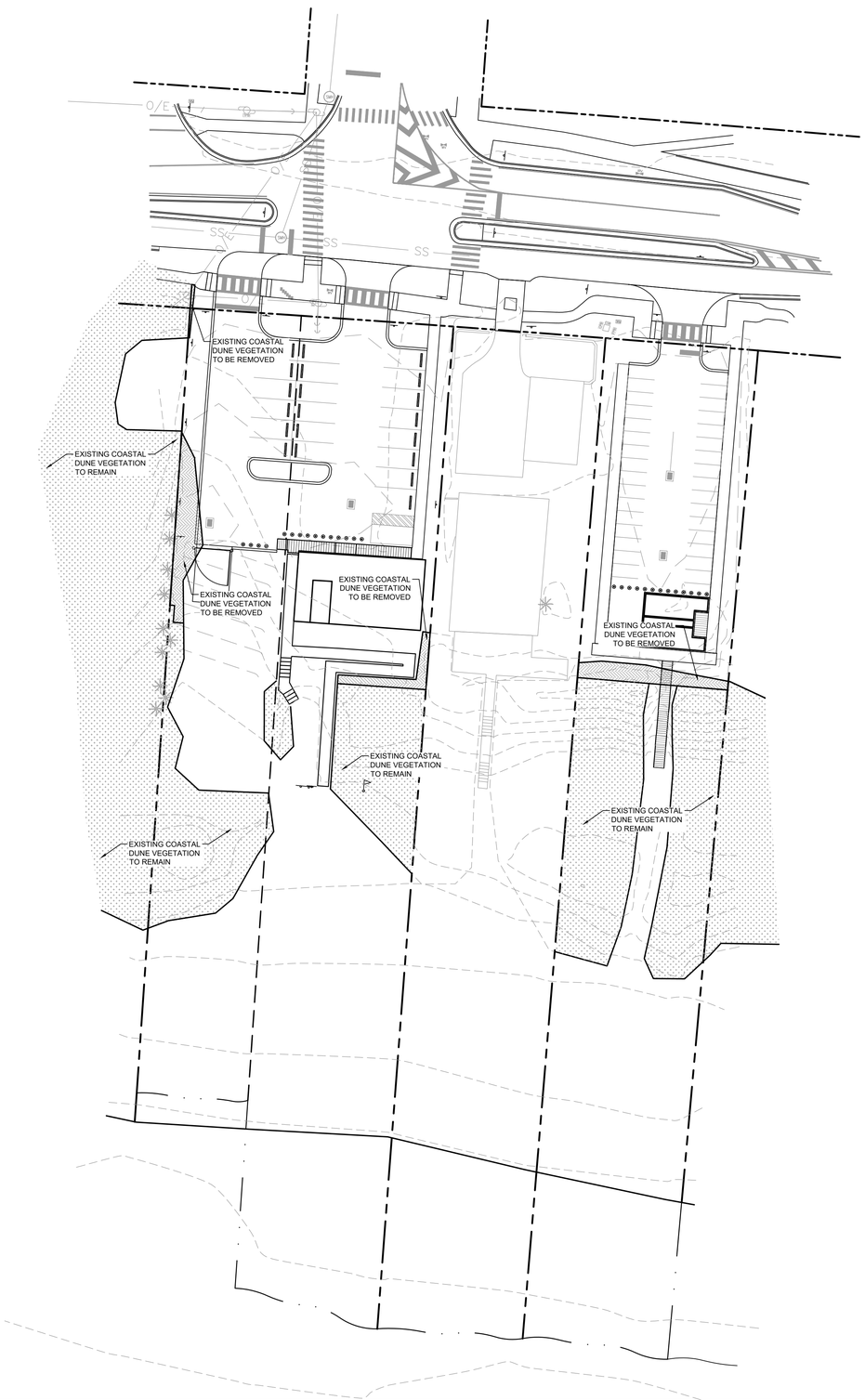
Drawings not valid without seal

Sheet Title

EXISTING CONDITIONS PLAN

Sheet No.

EC100



EXISTING VEGETATION

- EXISITING COASTAL DUNE VEGETATION TO REMAIN
- EXISITING COASTAL DUNE VEGETATION TO BE REMOVED

1 EXISTING VEGETATION PLAN
Scale: 1" = 30'

0 30' 60'

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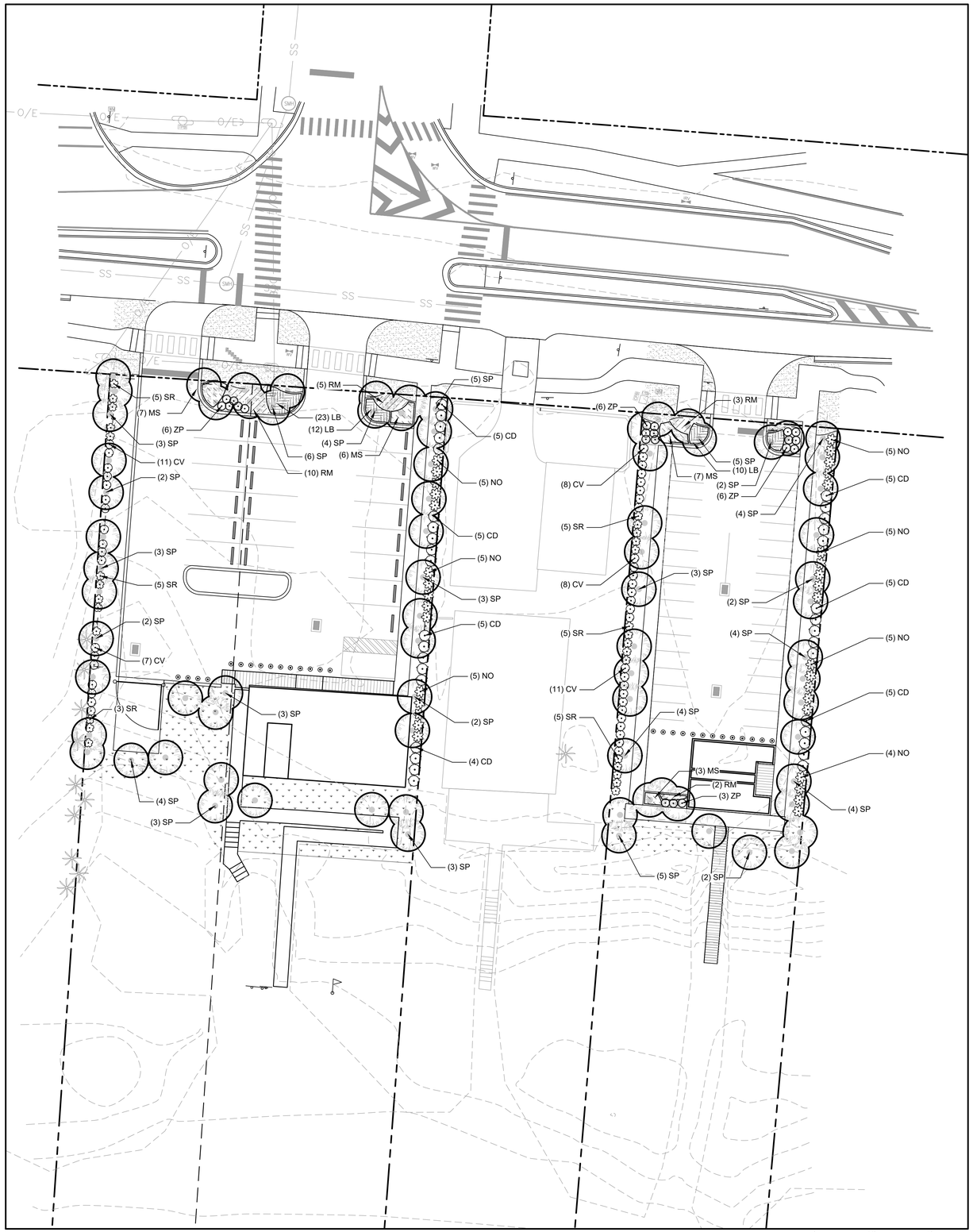
Sheet Title

EXISTING VEGETATION PLAN

Sheet No.

EX100



1 LANDSCAPE PLANTING PLAN
Scale: 1" = 20'

0 20' 40' NORTH

PLANT SCHEDULE EAST

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	HT	SPACING
PALM TREES							
	SP	35	SABAL PALMETTO / SABAL PALM CLEAR-TRUNK HEIGHT NOTED	FG	2.5" CAL	14-16` H	
SHRUBS							
	CD	15	CALLISTEMON VIMINALIS `LIGHT SHOW` / LIGHT SHOW RED BOTTLEBRUSH	3 GAL			48" o.c.
	CV	27	CALLISTEMON VIMINALIS 'LITTLE JOHN' / LITTLE JOHN WEEPING BOTTLEBRUSH	3 GAL			36" o.c.
	NO	19	NERIUM OLEANDER / OLEANDER	3 GAL			48" o.c.
	SR	15	SERENOA REPENS / GREEN SAW PALMETTO	3 GAL			36" o.c.
	ZP	15	ZAMIA FLORIDANA / COONTIE	3 GAL			36" o.c.
SHRUB AREAS							
	LB	19	LOMANDRA LONGIFOLIA `BREEZE` / BREEZE GRASS	3 GAL			24" o.c.
	MS	10	MISCANTHUS SINENSIS `ADAGIO` / ADAGIO MAIDEN GRASS	3 GAL			36" o.c.
GROUND COVERS							
	RM	5	ROSA X 'MEIDRIFORA' / CORAL DRIFT ROSE	3 GAL			36" o.c.
	DM	198	SEA OATS & BEACH MORNING GLORY / DUNE MIX UNIOLA PANICULATA/IPOMOEA IMPERATI RATE - 2 OATS PER 1 MORNING GLORY	2" PLUG			24" o.c.
SOD/SEED							
	SOD	619 SF	CYNODON DACTYLON `TIFWAY 419` / TIFWAY 419 BERMUDA GRASS	SOD			

PLANT SCHEDULE WEST

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	HT	SPACING
PALM TREES							
	SP	43	SABAL PALMETTO / SABAL PALM CLEAR-TRUNK HEIGHT NOTED	FG	2.5" CAL	14-16` H	
SHRUBS							
	CD	19	CALLISTEMON VIMINALIS `LIGHT SHOW` / LIGHT SHOW RED BOTTLEBRUSH	3 GAL			48" o.c.
	CV	18	CALLISTEMON VIMINALIS 'LITTLE JOHN' / LITTLE JOHN WEEPING BOTTLEBRUSH	3 GAL			36" o.c.
	NO	15	NERIUM OLEANDER / OLEANDER	3 GAL			48" o.c.
	SR	13	SERENOA REPENS / GREEN SAW PALMETTO	3 GAL			36" o.c.
	ZP	6	ZAMIA FLORIDANA / COONTIE	3 GAL			36" o.c.
SHRUB AREAS							
	LB	35	LOMANDRA LONGIFOLIA `BREEZE` / BREEZE GRASS	3 GAL			24" o.c.
	MS	13	MISCANTHUS SINENSIS `ADAGIO` / ADAGIO MAIDEN GRASS	3 GAL			36" o.c.
GROUND COVERS							
	RM	15	ROSA X 'MEIDRIFORA' / CORAL DRIFT ROSE	3 GAL			36" o.c.
	DM	600	SEA OATS & BEACH MORNING GLORY / DUNE MIX UNIOLA PANICULATA/IPOMOEA IMPERATI RATE - 2 OATS PER 1 MORNING GLORY	2" PLUG			24" o.c.
SOD/SEED							
	SOD	1,253 SF	CYNODON DACTYLON `TIFWAY 419` / TIFWAY 419 BERMUDA GRASS	SOD			

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CW — Principal
252066-004 — Project No.
02.11.25 — Date

Registration – FL LA6666896
LESTER CHAD WATKINS LANDSCAPE ARCHITECT LA6666896 STATE OF FLORIDA
Lester C Watkins
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Sheet Title

LANDSCAPE PLANTING PLAN

Sheet No.

LP100



Wheeler's dwarf pittosporum


Tifway 419 Bermuda Grass


Adagio Maiden Grass


Light Show Red Bottlebrush


Blanket flower


Sabal Palm



Hardy Red Oleander


Sweet Viburnum


Shore juniper


Saw Palmetto


Coontie


Purple Trailing Lantana


Dwarf Yaupon Holly


Dune Sunflower


Dune Mix

A SHRUBS AND GROUNDCOVERS ADJACENT TO STRAIGHT EDGES SHALL BE TRIANGULAR – SPACED IN ROWS PARALLED TO THE STRAIGHT EDGE.

B SHRUBS AND GROUNDCOVERS ADJACENT TO CURVED EDGES SHALL BE PLANTED IN ROWS PARALLEL TO THE CURVED EDGES. CURVED EDGES TO BE VERY SMOOTH RADII.

5 TYPICAL PLANT SPACING
NOT TO SCALE 329399-04

NOTE: TRENCH EDGE TO BE LOCATED BETWEEN ALL PLANTING BED AREAS AND ADJACENT TURF AREAS, UNLESS NOTED OTHERWISE.

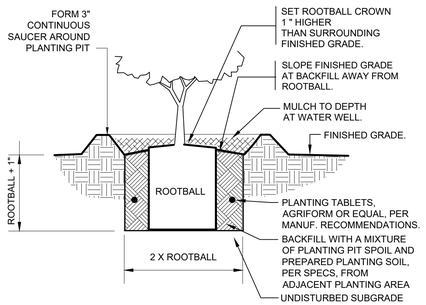
6 TRENCH EDGE
3" = 1'-0" 329413.23-02

7 MULTI-TRUNK TREE STAKING
1/2" = 1'-0" 329343-01

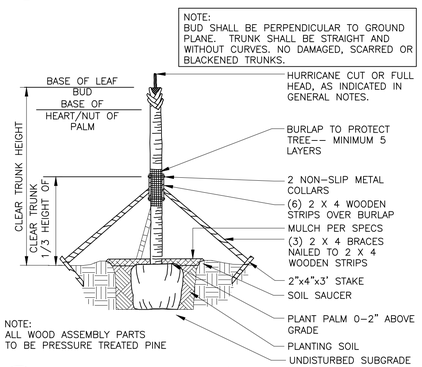
STAKING DETAIL

PLANT PIT DETAIL

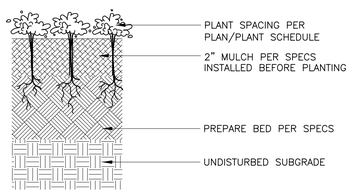
4 TREE PLANTING - GUY STRAP
1" = 1'-0" 329343.26-02



1 SHRUB PLANTING
1" = 1'-0" 329333.13-01



2 PALM TREE PLANTING
3/8" = 1'-0" 329343-02



3 GROUNDCOVER PLANTING
3" = 1'-0" 329313-01

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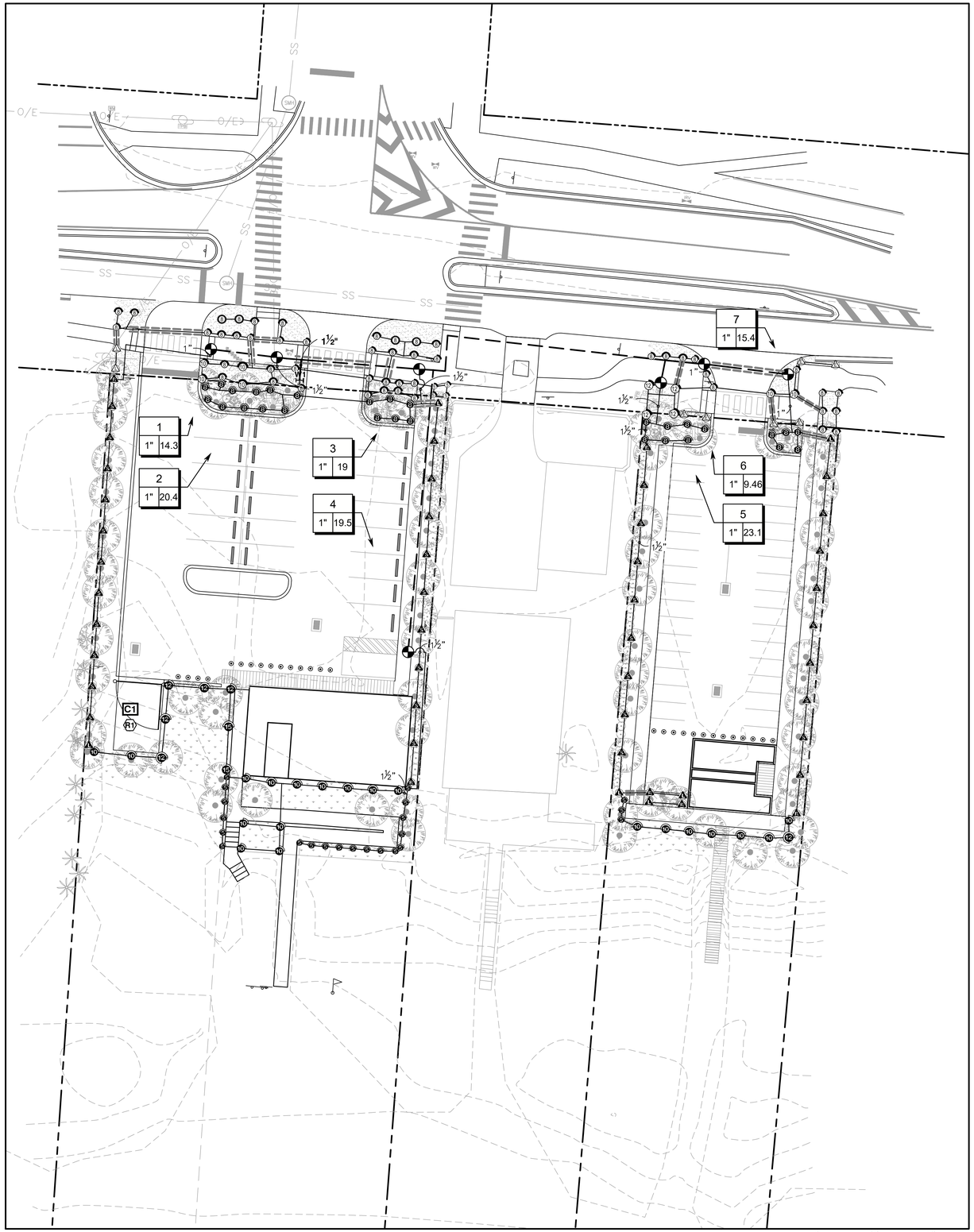
Sheet Title

LANDSCAPE PLANTING DETAILS

Sheet No.

LP500



1 IRRIGATION PLAN
Scale: 1" = 20'

0 20' 40'

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IRRIGATION GRAPHICS NOTES

IRRIGATION SYSTEM DESIGN GRAPHICS ARE DIAGRAMMATIC IN NATURE, AND INTENDED TO INDICATE GENERAL LOCATION AND PROXIMITY TO OTHER ELEMENTS OF THE DRAWING. AS SUCH, MAINLINE AND/OR VALVES ARE OFTEN SHOWN OUTSIDE OF TRENCH FOR GRAPHIC CLARITY. ALL EQUIPMENT AND PIPE SHALL BE WITHIN PROPERTY BOUNDARIES UNLESS OTHERWISE NOTED. SLEEVE SIZES TO BE DETERMINED BY CONTRACTOR UNLESS NOTED ON THE DRAWINGS.

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Lester C Watkins
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Sheet Title

IRRIGATION PLAN

Sheet No.

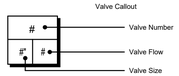
LI100

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
EST LCS RCS CST SST	RAIN BIRD 1806-SAM-PRS 15 STRIP SERIES TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING.	8	30
Q H F	RAIN BIRD 1806-SAM-PRS 5 SERIES MPR TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING.	4	30
Q T H F	RAIN BIRD 1806-SAM-PRS 8 SERIES MPR TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING.	48	30
Q T H F	RAIN BIRD 1806-SAM-PRS 10 SERIES MPR TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING.	6	30
Q T H TQ F	RAIN BIRD 1806-SAM-PRS 12 SERIES MPR TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING.	4	30
EST LCS RCS CST SST	RAIN BIRD 1812-SAM-PRS 15 STRIP SERIES SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	49	30
Q H F	RAIN BIRD 1812-SAM-PRS 5 SERIES MPR SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	22	30
Q T H F	RAIN BIRD 1812-SAM-PRS 8 SERIES MPR SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	29	30
Q T H F	RAIN BIRD 1812-SAM-PRS 10 SERIES MPR SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	20	30
Q T H TQ F	RAIN BIRD 1812-SAM-PRS 12 SERIES MPR SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	6	30
Q T H TQ F	RAIN BIRD 1812-SAM-PRS 15 SERIES MPR SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	2	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD PGA ANGLE 1" 1IN., 1-1/2IN., 2IN. ELECTRIC REMOTE CONTROL VALVE, ANGLE.	7
C1	RAIN BIRD ESP4ME3 WITH (1) ESP-SM3 7 STATION, HYBRID MODULAR OUTDOOR CONTROLLER. FOR RESIDENTIAL OR LIGHT COMMERCIAL USE. LNK WIFI MODULE AND FLOW SENSOR READY.	1
R1	RAIN BIRD RSD-BEX RAIN SENSOR, WITH METAL LATCHING BRACKET, EXTENSION WIRE.	1
W1	POINT OF CONNECTION 3" EXISTING IRRIGATION WELL BASIS OF DESIGN: 25 GPM @ 60 PSI, CONTRACTOR TO VERIFY.	1
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1" ONLY LATERAL TRANSITION PIPE SIZES 1 1/4" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 1" IN SIZE.	1,752 LF
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1 1/2" ONLY LATERAL TRANSITION PIPE SIZES 1 1/4" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 1" IN SIZE.	152.7 LF
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 1 1/2"	330.7 LF
	PIPE SLEEVE: PVC SCHEDULE 40	150.1 LF

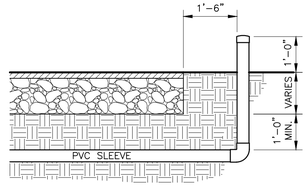
Valve Callout



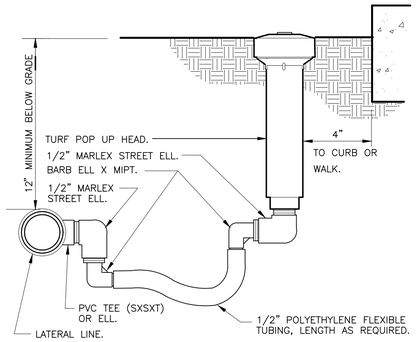
QUANTITY TAKEOFF DISCLAIMER:

QUANTITIES NOTED ON PLANS ARE OFFERED AS A CONVENIENCE TO THE CONTRACTOR FOR BID PURPOSES ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.

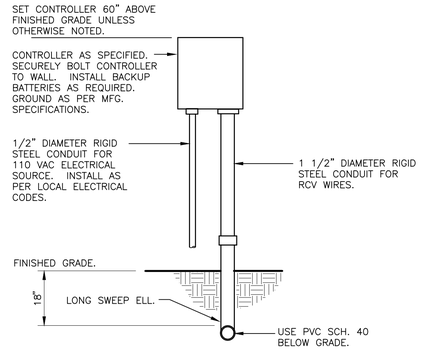
NOTE:
INSTALLER OF SLEEVES SHALL BE RESPONSIBLE TO LOCATE SLEEVES IF NOT PROPERLY INSTALLED.



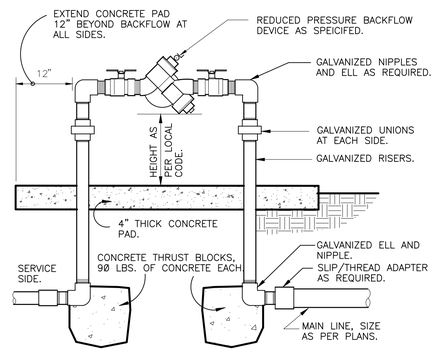
7 SLEEVING DETAIL
1/2" = 1'-0" 328409.76-05



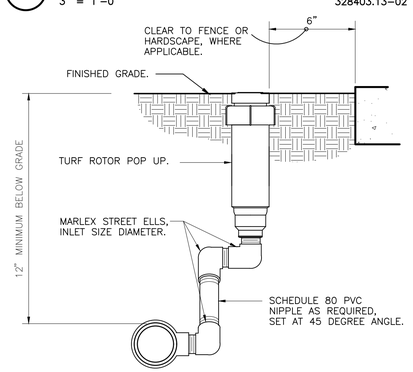
4 TURF SPRAY FLEX ASSEMBLY
3" = 1'-0" 328403.13-02



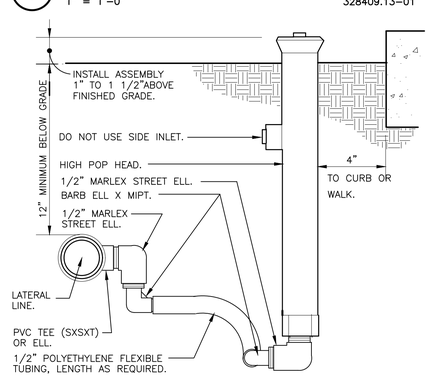
5 WALL MOUNT CONTROLLER
1" = 1'-0" 328409.13-01



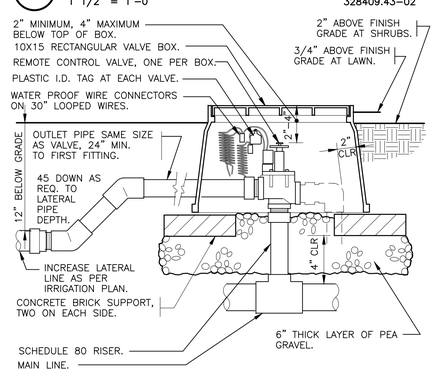
6 REDUCED PRESSURE BACKFLOW
1 1/2" = 1'-0" 328409.43-02



1 TURF ROTOR MARLEX ASSEMBLY
3" = 1'-0" 328403.16-01



2 SHRUB SPRAY HIGHPOP W/ FLEX ASSEMBLY
3" = 12" 328403.29-01



3 ELECTRIC REMOTE CONTROL VALVE
1 1/2" = 1'-0" 328406.13-01

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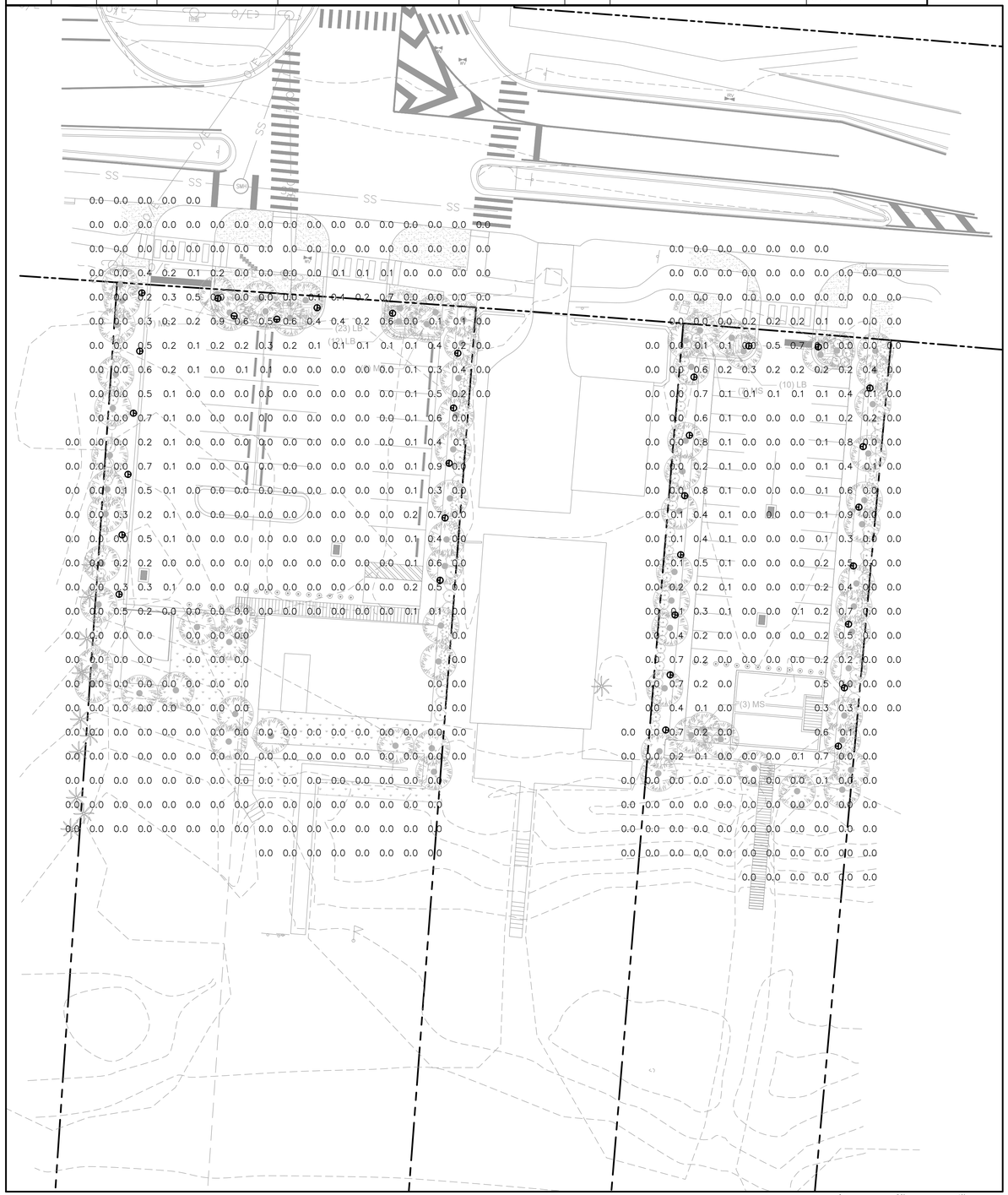
REGISTERED LANDSCAPE ARCHITECT LA6666896 STATE OF FLORIDA
Lester C Watkins
2025.07.21 11:26:22-05'00'
Drawings not valid without seal

Sheet Title
IRRIGATION DETAILS

Sheet No.
LI500

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	QUANTITY	LAMP	DESCRIPTION	MODEL	COLOR (CCT)	NOTE 1	NOTE 2
BLS	⊕	32	(1) 4 LED chips, 4COB	9-1/2"DIA. X 35-1/2"H. LED LUMINAIRE DIFFUSED LENS	Hydrel, 3100C 4COB AMBLW BSH AMBER	AMBER	INPUT: 120-277VAC, 0.7A, 50/60Hz OUTPUT: 200-1050mA, 48W , eldoLED SOLOdriver 561/s	FWC APPROVED SEA TURTLE BOLLARD LIGHT WITH BEACHSIDE SHEILD



1 SITE LIGHTING PLAN
Scale: 1" = 20'

0 20' 40'

NORTH

GENERAL LIGHTING NOTES

- FIXTURE SPECIFICATIONS & LOCATIONS SHOWN ON LANDSCAPE ARCHITECT'S LIGHTING PLANS SUPERCEDE ANY OTHER INFORMATION THAT MAY ALSO BE INCLUDED IN ARCHITECTURAL, ELECTRICAL ENGINEER'S PLANS, ETC. CONTRACTOR TO NOTIFY LA OF ANY INCONSISTENCIES.
- LIGHTING PLANS ARE SUBJECT TO REVIEW & APPROVAL FROM AUTHORITIES-HAVING-JURISDICTION (AHJ'S) I.E. CITIES, AGENCIES ETC. CHANGES TO FIXTURE SPECIFICATIONS AND/OR LOCATIONS SHALL BE SUBMITTED TO LA AND MAY REQUIRE FURTHER PERMITTING & APPROVAL FROM AHJ'S. FAILURE TO DO SO MAY RESULT IN AHJ'S REJECTING THE FIXTURE UPON PROJECT COMPLETION INSPECTION, WHICH SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE.
- STRUCTURAL ENGINEERING DESIGN IS NEITHER EXPRESSED NOR IMPLIED IN THIS DRAWING. STRUCTURAL ENGINEERING DESIGN RESPONSIBILITY IS DELEGATED TO THE CONTRACTOR, AND SHALL BE DONE BY A PROFESSIONAL ENGINEER OR OTHER QUALIFIED PROFESSIONAL AS REQUIRED FOR CODE COMPLIANCE, PERMITTING, ETC.
- FOR LIGHTING PLANS INCLUDING PHOTOMETRIC CALCULATIONS, FOOTCANDLE CALCULATIONS ARE INTENDED TO IMITATE FINAL INSTALLED VALUES. FACTORS THAT MAY AFFECT THESE VALES INCLUDE BUT ARE NOT LIMITED TO MANUFACTURER'S IES FILE VALIDITY, LIGHT LOSS FACTORS, BUILDING MATERIAL REFLECTIVITY, TREE AND FURNITURE PLACEMENT, ETC. CARE WAS TAKEN TO PREPARE PLANS TO ACCOUNT FOR THE ABOVE FACTORS, BUT FINAL CONDITIONS & EXTERNAL FACTORS ARE SUBJECT TO MINOR CHANGES. CONTRACTOR SHALL INSTALL FIXTURES AS INDICATED ON THE CONSTRUCTION DOCUMENTS AND PER MANUFACTURER'S RECOMMENDATIONS TO ENSURE VARIANCES DUE TO INSTALLATION ISSUES ARE KEPT TO A MINIMUM.

GENERAL NOTES

1. EXTERIOR LIGHTS SHALL BE ARRANGED TO SHIELD OR DEFLECT LIGHT AWAY FROM ADJOINING PROPERTIES, PUBLIC STREETS AND BEACH, AND SHALL NOT HAVE AN ADVERSE IMPACT OF THE SURROUNDING PROPERTIES, ROADWAYS, AND BEACHES.
2. VOLTAGE TO BE VERIFIED BY ELECTRICAL CONTRACTOR AND APPROVED BY CLIENT.
3. TINTED GLASS OR FILM WITH A VISIBLE LIGHT TRANSMITTANCE VALUE OF FORTY-FIVE (45) PERCENT OR LESS SHALL BE APPLIED TO ALL WINDOWS AND DOORS WITHIN LINE OF SIGHT OF THE BEACH. THIS INCLUDES THE SEAWARD AND SHORE-PERPENDICULAR SIDES OF THE STRUCTURE. THIS MAY BE SPECIFIED IN THE NOTES SECTION ON THE DRAWING.
4. NO FIXTURE SUBSTITUTIONS OR ALTERATIONS ARE ALLOWED WITHOUT PRIOR FWC REVIEW AND THE EXTERIOR LIGHTING SHALL BE INSTALLED AND MAINTAINED AS DEPICTED.

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NOT FOR CONSTRUCTION
THESE PLANS HAVE NOT BEEN APPROVED AND ARE SUBJECT TO CHANGE.

A Landscape Development Plan for
Shores at Crystal Beach Park Expansion
Destin, Florida

Revisions		
No.	Date	Revisions / Submissions
	02.26.25	PRELIMINARY DESIGN - PD100
	03.25.25	REVIEW SET-CD095
	05.23.25	CD100
	07.21.25	CD100 - REV 01

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AS
Drawn
DM
Project Manager
CW
Principal
252066-004
Project No.
02.11.25
Date

Registration - FL LA6666896

Lester C Watkins
2025.07.21
11:26:23-05'00'

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Sheet Title

SITE LIGHTING PLAN

Sheet No.

LE100

HYDREL

CATALOG NUMBER

NOTES

TYPE



3100C LED

Impact Resistant Wildlife Bollard

WILDLIFE LIGHTING

HIGHLIGHTS

- A confident solution for safety and performance in a proven vandal resistant bollard
- Amber LED 591 nanometer
- Motion Sensing Bi-Level switching using electromagnetic occupancy sensor → 20ft range
- USB receptacle or GFCI receptacle options
- 0-10V Dimming, ELV dimming
- Emergency operation up to 90 minutes
- 258 lumens

5 YEAR warranty

LED

IP65

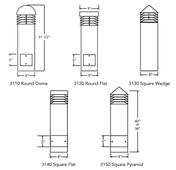
BAA

BABA

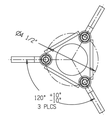
Specifications

Diameter:	9"
	229 mm
Diameter[1]:	8"
	204 mm
Height:	42"
	1016 mm
Height[1]:	36"
	915 mm
Weight:	35lbs

DIMENSIONS



MOUNTING



LUMEN PACKAGES

	SYM
Delivered Lumens	258
Watts	48
LPW	5

Note: Information Based on SYM distribution

HYDREL BLS

ORDERING INFORMATION

EXAMPLE: 3110C H36 4COB AMBLW MVOLT SYM BSH BL

Series	Height	LED Array	Color	Voltage	Distribution
3110C	**H24** Nominal 24" height	**4COB**	**AMBLW** Amber 591 Nanometers	**120**[7]	**FT**[7] Forward Throw, 180°
3120C	**H36** Nominal 36" height			**277**[7]	**SYM** Symetrical 360°
3130C	**H42** Nominal 42" height			**MVOLT (120-277V)**	
3140C					
3150C					

Options		Finish			
Internal		**BL**	Black	**STG**	Steel Gray
BLS[1,2]	Bi-Level Switching (Motion Activated)	**BZ**	Bronze	**TVG**	Terra Verde Green
GFCI	Receptacle; 120 volt only	**DDB**	Dark Bronze	**WH**	White
ELN[1,4,5]	Emergency Operation (1387.5 lumen output; 90 minutes)	**DNA**	Natural Aluminum	**CF**	Custom
LDIM	0-10V Dimming (Dims to 10%)	**GN**	Green	**__Z**[7]	Zinc Undercoat
IDIM	In-line Trailing Edge ELV Dimming (Dims to 40%); 120 volt only	**GR**	Gray	**Optional Louvers Painted**[8]	
USB	USB charging port, 120 volt only, cannot be used with GFCI	**SND**	Sand	**___/PL**	Louvers painted to match fixture (top only)
External					
BSH[6]	Beachside Shield				

ELECTRICAL LOAD

Light Engines	Drive Current (mA)	System Watts	Current (A) 120	208	240	277	347	480
4 COB	250mA	48	0.400	0.231	0.200	0.173	0.138	0.100

LUMEN AMBIENT TEMPERATURE (LAT) MULTIPLIERS

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.12
10°C	50°F	1.09
20°C	68°F	1.05
25°C	77°F	1.00
30°C	86°F	0.95
40°C	104°F	0.90

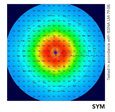
For more information on Wildlife friendly lighting please refer to the Certified Wildlife Lighting web site.

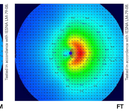
Notes:
1 Required with ELN or BLS.
2 FT not available with BLS or BSH
3 ELN and BLS not available together.
4 ELN and BLS require 120 or 277 voltage, not MVOLT or 347.
5 ELN not available on 24" height.
6 BSH required if direct light is visible on the beach. Not compatible with FT distribution or BLS
7 Add zinc undercoat for harsh environments.
8 Louvers will be black unless otherwise specified (top only).

HYDREL

PERFORMANCE DATA

To see complete photometric reports or download .ies files for this product, visit www.hydrel.com/





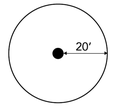
LUMEN OUTPUT

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact Factory for performance data on any configuration not shown here.

	Distribution	System Watt	Lumens	LPW	B	U	G
AMB	SYM	48	258	5	0	1	1
	FT	48	154	3	0	1	1
	SYM with BSH	48	154	3	0	1	1

OPERATING TEMPERATURE: -20°C Through 50°C

APPROXIMATE MOTION SENSOR COVERAGE AREA:



SPECIFICATIONS AND FEATURES

MATERIAL: Copper-free aluminum, A360.

LED ARRAY: 48W (total system input wattage) Lumen maintenance of individual light sources have been independently tested to IESNA LM-80 standards. All within 3 MacAdam ellipses.

VOLTAGE: MVOLT 50/60Hz, 120 or 277

DISTRIBUTION: SYM - Symmetric, FT - Forward Throw

LENS: Frosted borosilicate glass.

POWER SUPPLY: Integrally mounted LED driver run at 250mA, -20°C through 50°C standard. Alternate driver run at 250mA, -40°C through 50°C used with IDIM and BLS.

FINISH: Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climates without cracking or peeling.

FASTENERS: Stainless Steel.

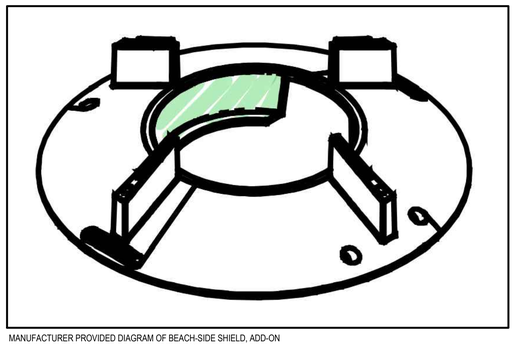
GOVERNMENT PROCUREMENT
BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/resources/buy-american for additional information.

LISTING: cCSAus, suitable for wet locations, laboratory tests conducted by CSA to UL Standard UL-1598 and UL-8750.

WARRANTY: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Consult factory for details.

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



MANUFACTURER PROVIDED DIAGRAM OF BEACH-SIDE SHIELD, ADD-ON COMPONENT FOR ALL FIXTURES REQUIRED BEACH-SIDE SHIELDING

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A Landscape Development Plan for
Shores at Crystal Beach
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Destin, Florida

Revisions

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	07.21.25	CD100 – REV 01

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AS Drawn
DM Project Manager
CW Principal
252066-004 Project No.
02.11.25 Date

Registration – FL LA6666896

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2025.07.21 11:26:24-05'00'

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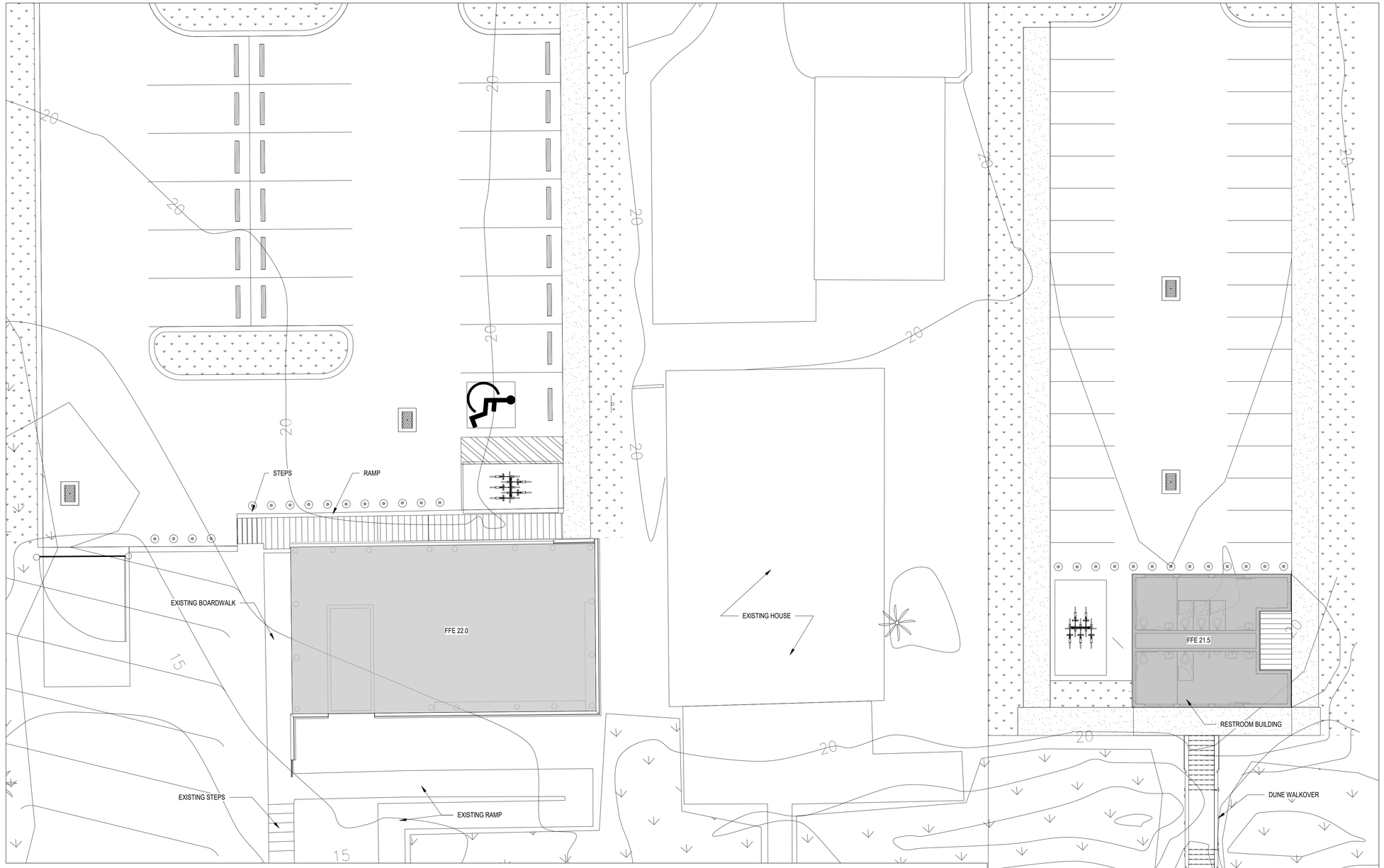
Sheet Title

SITE LIGHTING DETAILS

Sheet No.

LE500



NORTH

ARCHITECTURAL SITE PLAN

SCALE: 1" = 10'

FLORIDA PRODUCT APPROVAL NUMBERS

PW257-14995.1 CORAL INDUSTRIES STOREFRONT WINDOWS

FL 23953 PETERSEN ALUM. STANDING SEAM METAL ROOF

FL14311-R5 CORRIM SWINGING DOOR ASSEMBLIES

FL13192-R6 JAMES T. HARDIE SIDING

THESE ITEMS REPRESENT THE BASIS FOR THE DESIGN. EACH SECTION OF THE SPECIFICATIONS LISTS EQUAL PRODUCTS. THE EQUALS ARE REQUIRED TO HAVE PRODUCT APPROVAL NUMBERS SUBMITTED AS WELL.

APPLICABLE CODES

FLORIDA BUILDING CODE (FBC), 8TH EDITION (2023)
FLORIDA ACCESSIBILITY CODE, 8TH EDITION (2023)
FLORIDA FIRE PREVENTION CODE, 8TH EDITION (2023)
FLORIDA MECHANICAL CODE, 8TH EDITION (2023)
FLORIDA PLUMBING CODE, 8TH EDITION (2023)
NATIONAL ELECTRIC CODE, NFPA 70 (2008)
NFPA 101, LIFE SAFETY CODE

Digitally signed by Mike J Marshall
Date: 2025.07.18 10:50:58 -05'00'

Mike J Marshall

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
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PANAMA CITY BEACH, FL 32413 (850) 230-6150
ENGINEERING BUSINESS: EB-0000340
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

STATE OF FLORIDA
MICHAEL J. MARSHALL
AR00135545
REGISTERED ARCHITECT

SHORE AT CRYSTAL BEACH EXPANSION\

NO.	DATE	APPR.	REVISION / ACTION TAKEN

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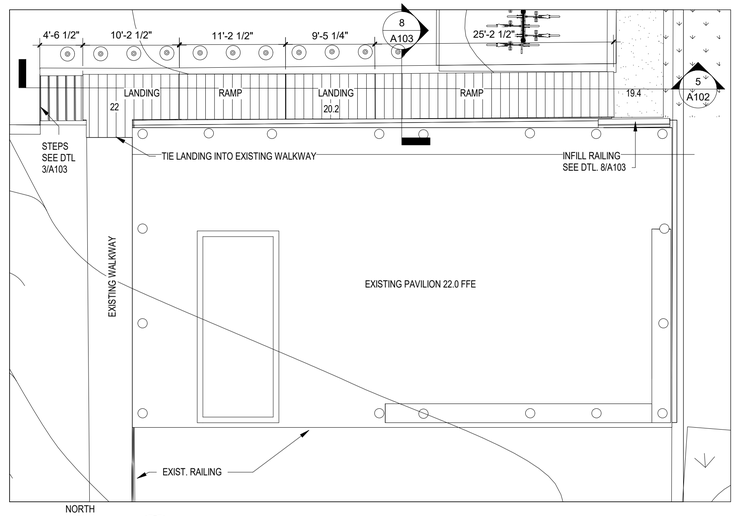
PROJECT NO: 12105.01
DESIGNED BY: MM
DRAWN BY: MM
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: JULY, 2025

SITE PLAN

A101

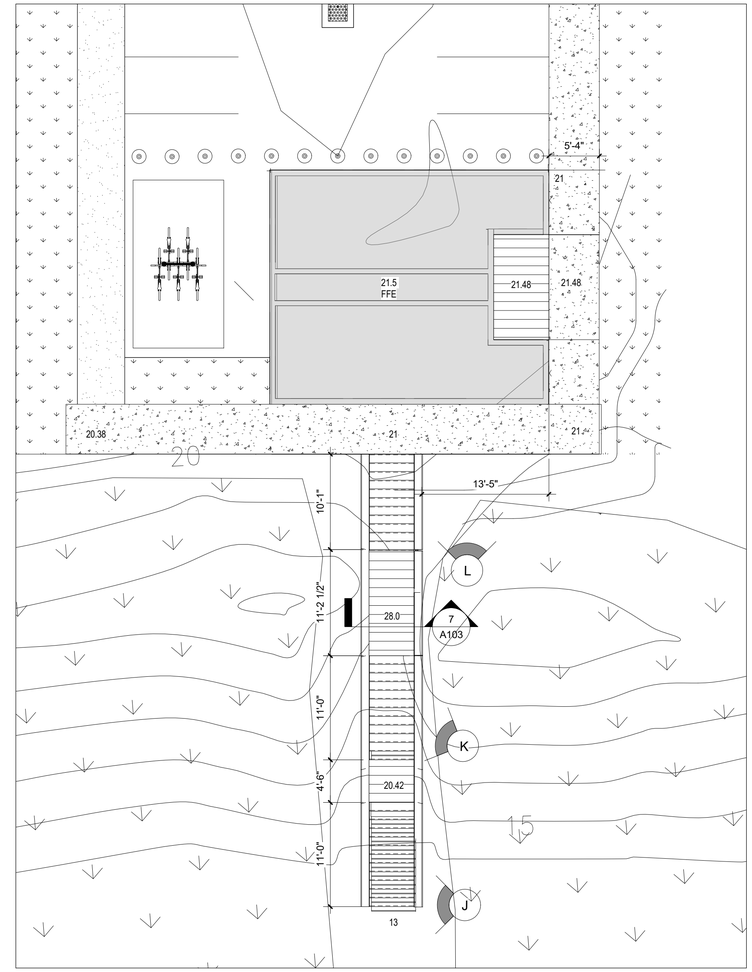
100% SUBMITTAL



NORTH

3 PAVILION PLAN

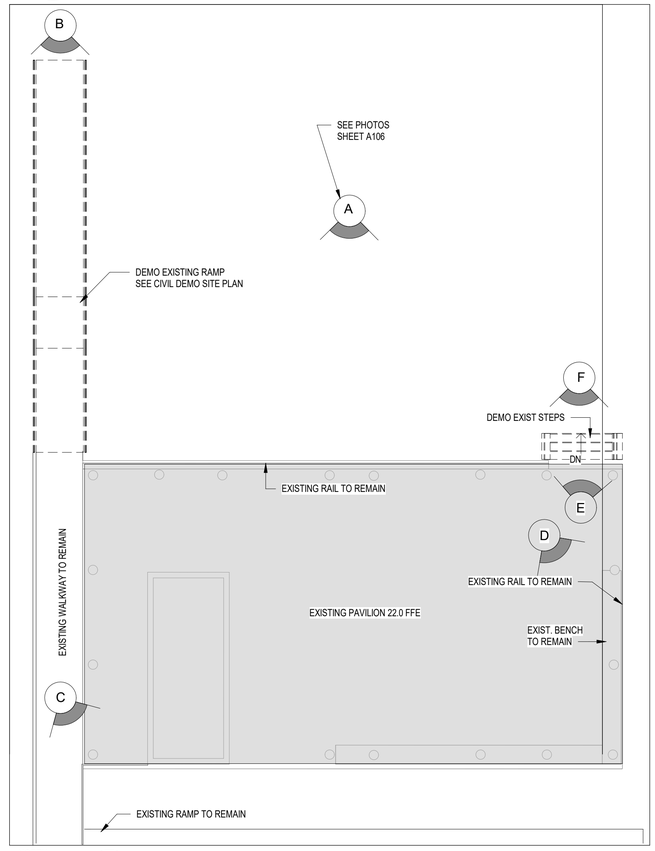
1/8" = 1'-0"



NORTH

1 RESTROOM SITE PLAN

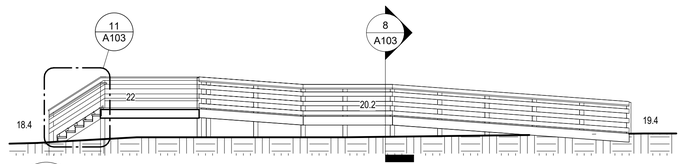
1/8" = 1'-0"



NORTH

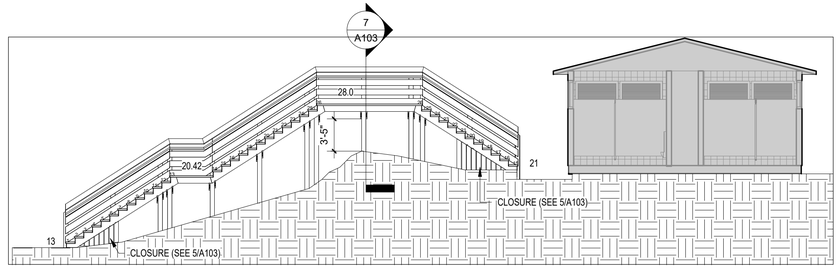
4 PAVILION DEMO PLAN

1/8" = 1'-0"



5 RAMP AND STEPS SECTION

1/8" = 1'-0"



2 DUNE WALKOVER SECTION

1/8" = 1'-0"

Mike J Marshall

Digitally signed by Mike J Marshall
Date: 2025.07.18 10:50:40 -05'00'

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STATE OF FLORIDA
MICHAEL J. MARSHALL
AR00135545
REGISTERED ARCHITECT

SHORE AT
CRYSTAL BEACH
EXPANSION

NO.	DATE	APPR.	REVISION / ACTION TAKEN

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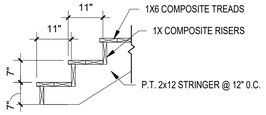
PROJECT NO: 12105.01
DESIGNED BY: MM
DRAWN BY: MM
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: JULY, 2025

DUNE WALKOVER,
RAMPS AND STAIRS

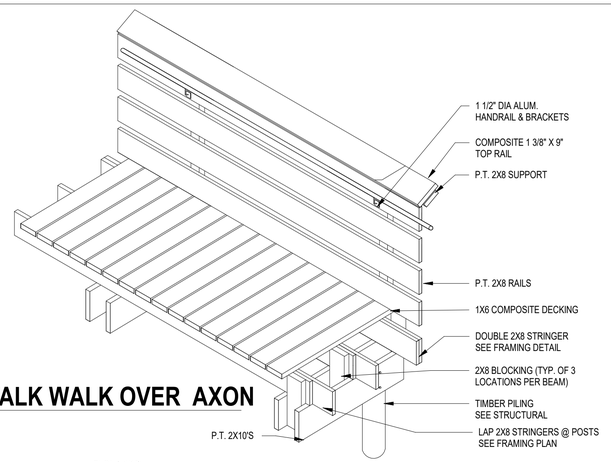
A102

100% SUBMITTAL



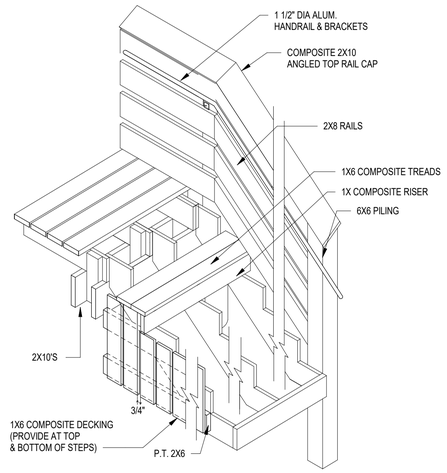
10 STEPS DETAIL

1/2" = 1'-0"



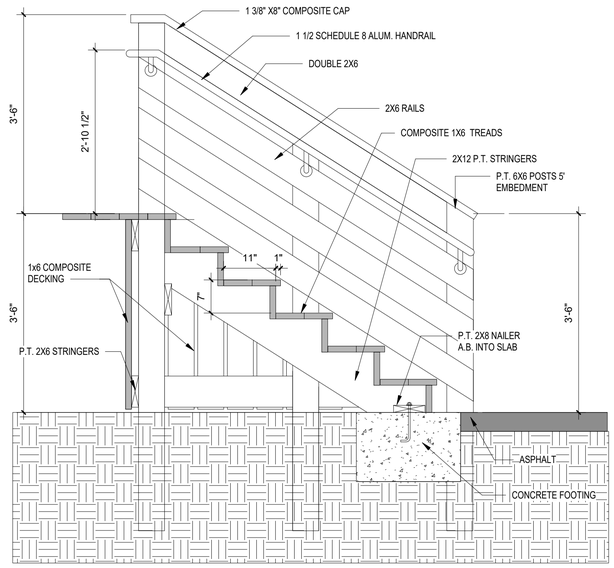
4 BOARDWALK WALK OVER AXON

1/2" = 1'-0"



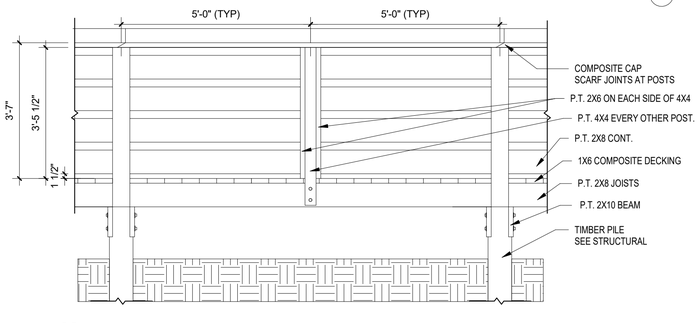
5 TYPICAL STEPS AXON VIEW

1/2" = 1'-0"



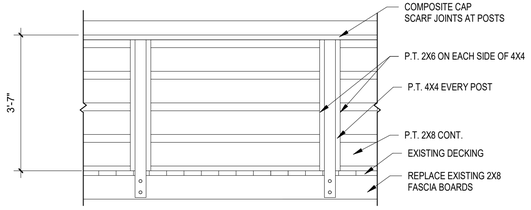
11 STAIR SECTION

3/4" = 1'-0"



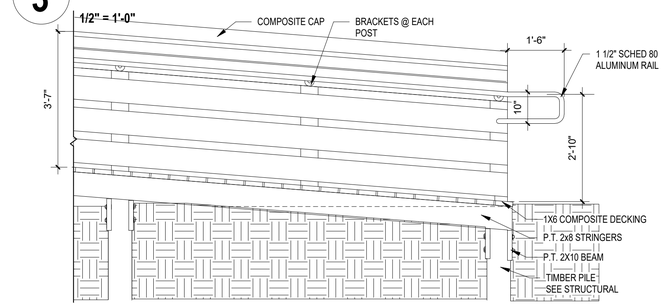
3 TYPICAL BOARDWALK FRAMING ELEVATION

1/2" = 1'-0"



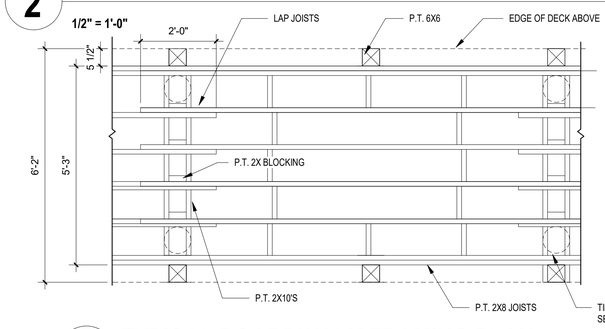
6 TYPICAL REPLACEMENT RAILING ELEVATION

1/2" = 1'-0"



2 TYPICAL RAMP FRAMING ELEVATION

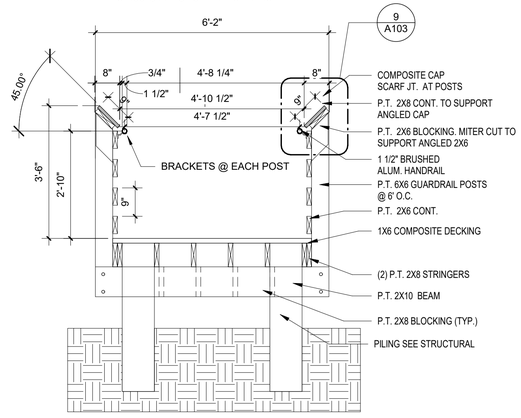
1/2" = 1'-0"



1 TYPICAL BOARDWALK FRAMING PLAN

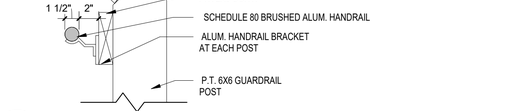
1/2" = 1'-0"

NOTE: ALL DECK FASTENERS ARE # 10 DECK SCREWS (304 STAINLESS STEEL) SEE STRUCTURAL FOR OTHER FASTENERS.



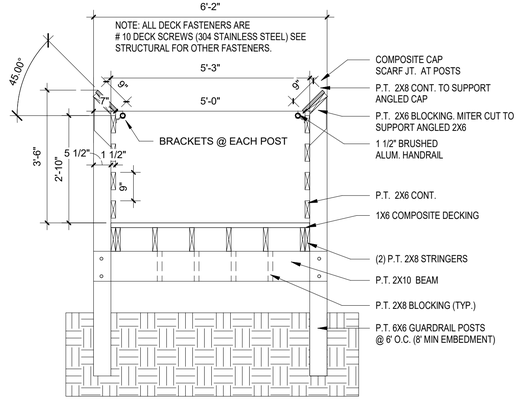
7 BOARDWALK DETAIL

1/2" = 1'-0"



9 TYPICAL COLUMN CAP DETAIL

1 1/2" = 1'-0"



8 RAMP DETAIL

1/2" = 1'-0"

Mike J Marshall

Digitally signed by Mike J Marshall
Date: 2025.07.18 10:50:23 -05'00'

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
14101 PANAMA CITY BEACH PARKWAY, SUITE 110,
PANAMA CITY BEACH, FL 32413 (850) 230-6150
ENGINEERING BUSINESS: EB-0000340
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

STATE OF FLORIDA
MICHAEL J. MARSHALL
AR00135545
REGISTERED ARCHITECT

SHORE AT CRYSTAL BEACH EXPANSION\

NO.	DATE	APPR.	REVISION / ACTION TAKEN

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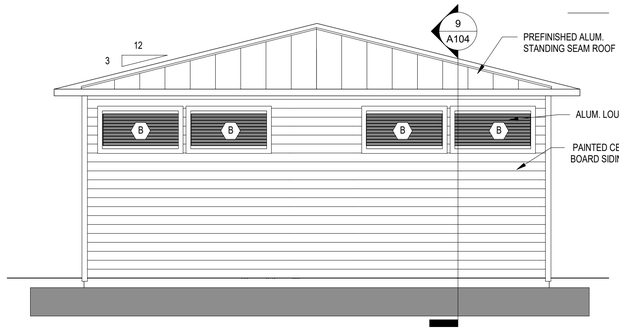
NOT RELEASED FOR CONSTRUCTION

PROJECT NO: 12105.01
DESIGNED BY: MM
DRAWN BY: MM
CHK'D BY: RLW
PROJ. MGR.: JCP
DATE: JULY, 2025

RAMP AND STAIR DETAILS

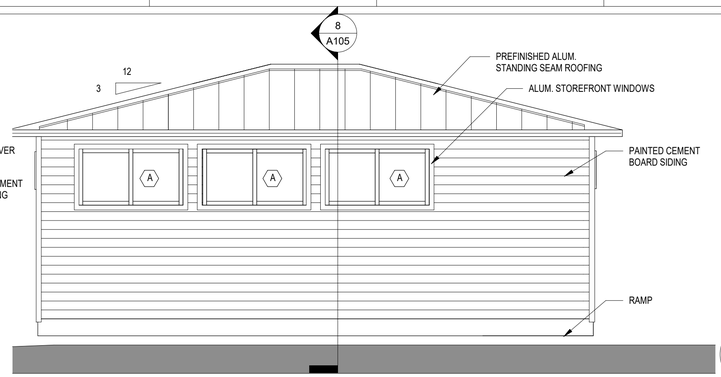
A103

100% SUBMITTAL



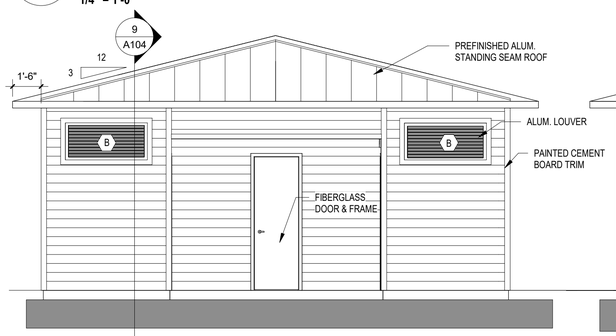
2 EAST ELEVATION

1/4" = 1'-0"



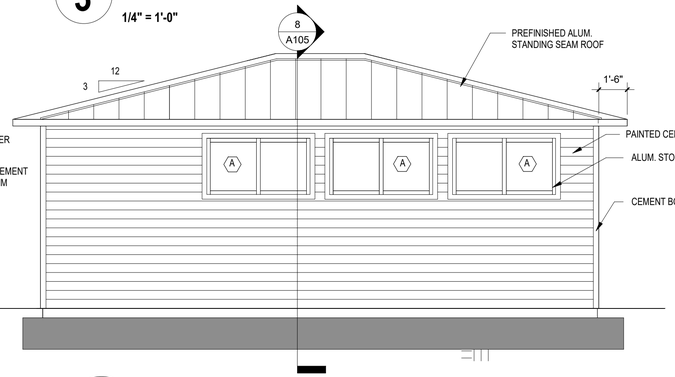
3 NORTH ELEVATION

1/4" = 1'-0"



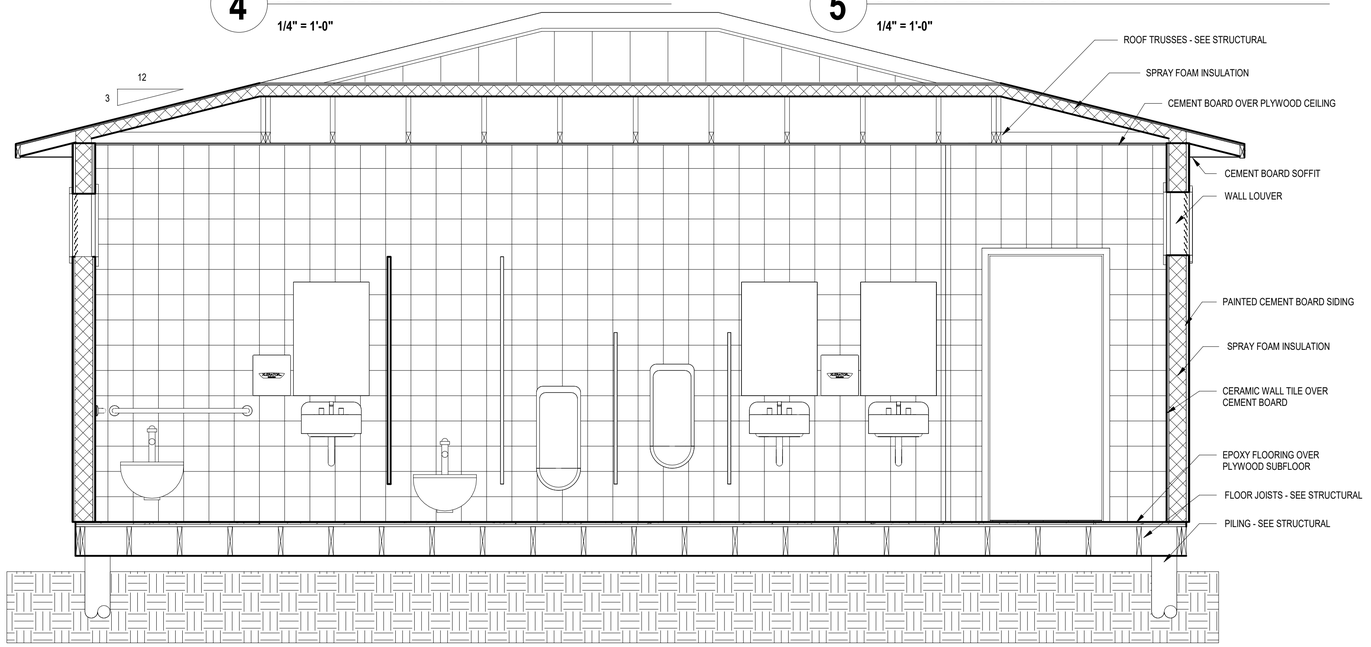
4 WEST ELEVATION

1/4" = 1'-0"



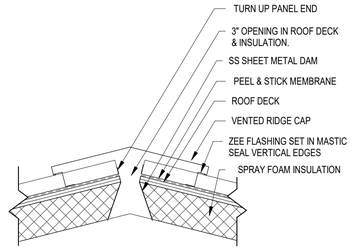
5 SOUTH ELEVATION

1/4" = 1'-0"



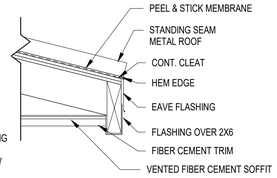
9 BUILDING SECTION.

1/2" = 1'-0"



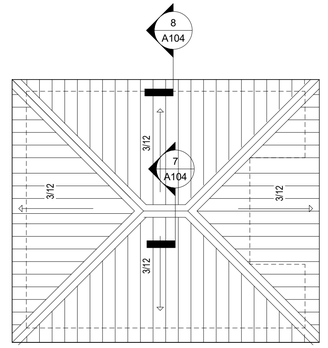
7 VENTED RIDGE CAP DETAIL

1 1/2" = 1'-0"



8 EAVE DETAIL

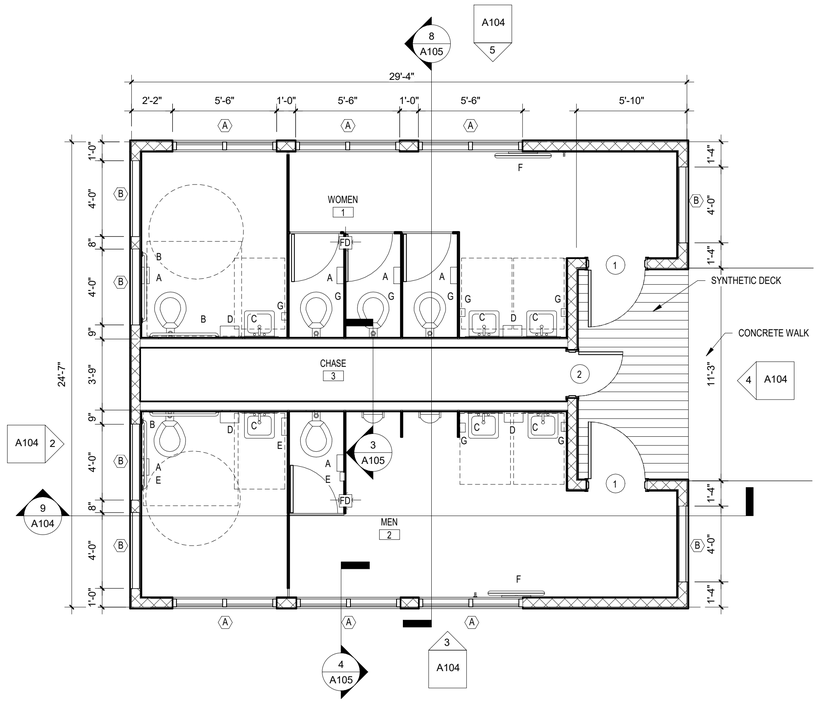
1 1/2" = 1'-0"



NORTH

6 ROOF PLAN.

1/8" = 1'-0"



NORTH

1 FLOOR PLAN

1/4" = 1'-0"

Mike J Marshall

Digitally signed by Mike J Marshall
Date: 2025.07.18 10:50:05 -05'00'

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STATE OF FLORIDA
MICHAEL J. MARSHALL
AR00135545
REGISTERED ARCHITECT

SHORE AT CRYSTAL BEACH EXPANSION\

NO.	DATE	APPR.	REVISION / ACTION TAKEN

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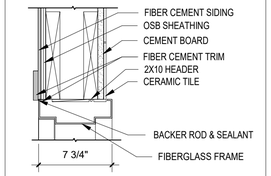
NOT RELEASED FOR CONSTRUCTION

PROJECT NO: 12105.01
DESIGNED BY: MM
DRAWN BY: MM
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: JULY, 2025

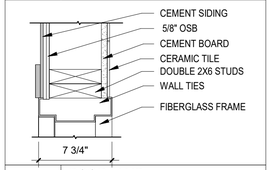
FLOOR PLAN, ELEVATIONS, BUILDING SECTION

A104

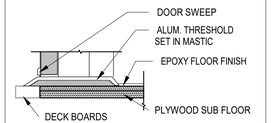
100% SUBMITTAL-



A DOOR HEAD

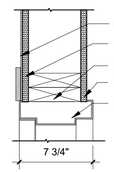


B DOOR JAMB



C DOOR SILL

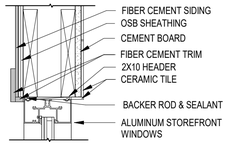
D DOOR HEAD



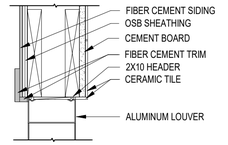
E DOOR JAMB

6 DOOR DETAILS

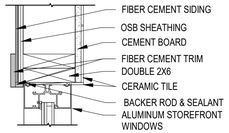
1 1/2" = 1'-0"



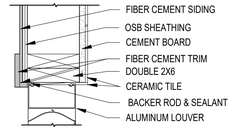
F WINDOW HEAD



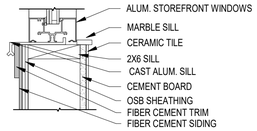
I LOUVER HEAD



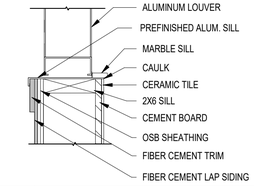
G WINDOW JAMB



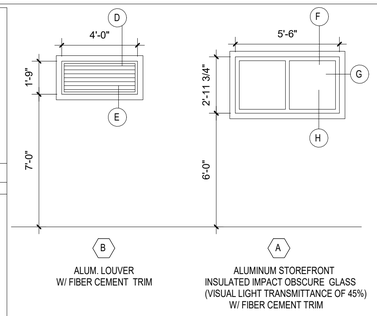
J LOUVER JAMB



H WINDOW SILL



K LOUVER SILL



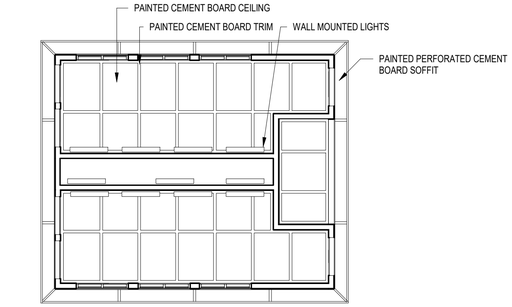
ALUM. LOUVER W/ FIBER CEMENT TRIM

ALUMINUM STOREFRONT INSULATED IMPACT OBSCURE GLASS (VISUAL LIGHT TRANSMITTANCE OF 45%) W/ FIBER CEMENT TRIM

FIBERGLASS DOOR FIBERGLASS FRAME W/ PAINTED FIBER CEMENT TRIM HDW SET #1

FIBERGLASS DOOR FIBERGLASS FRAME W/ PAINTED FIBER CEMENT TRIM HDW SET #2

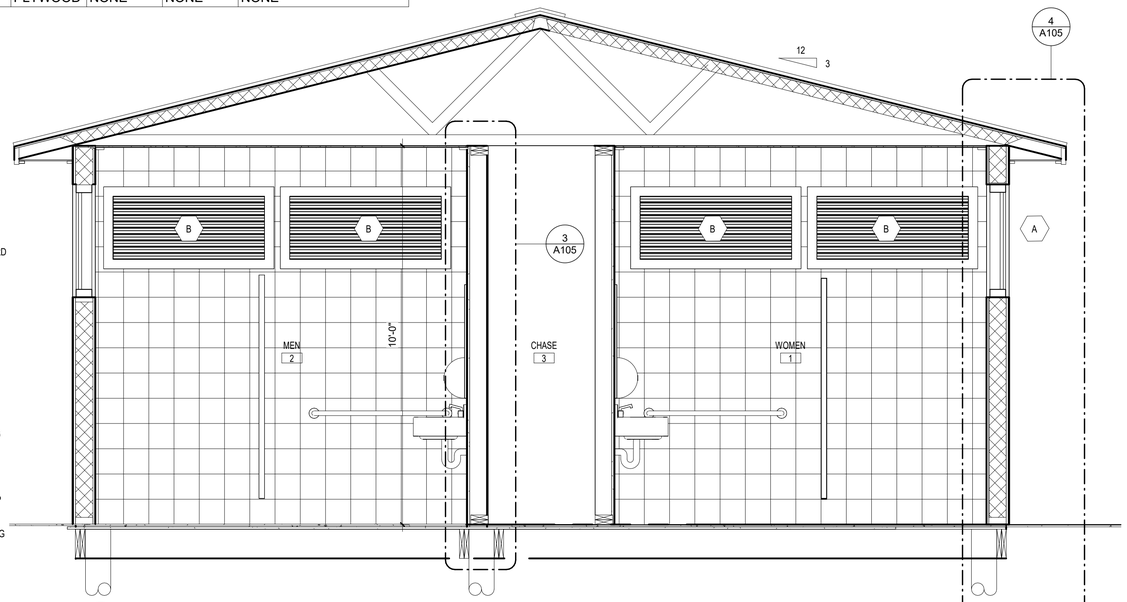
ROOM FINISH SCHEDULE					
Name	Number	Floor Finish	Base Finish	Wall Finish	Ceiling Finish
WOMEN	1	EPOXY	EPOXY	CT	PAINTED CEMENT BD.
MEN	2	EPOXY	EPOXY	CT	PAINTED CEMENT BD.
CHASE	3	PLYWOOD	NONE	NONE	NONE



NORTH

9 REFLECTED CEILING PLAN

1/8" = 1'-0"



8 BUILDING SECTION

1/2" = 1'-0"

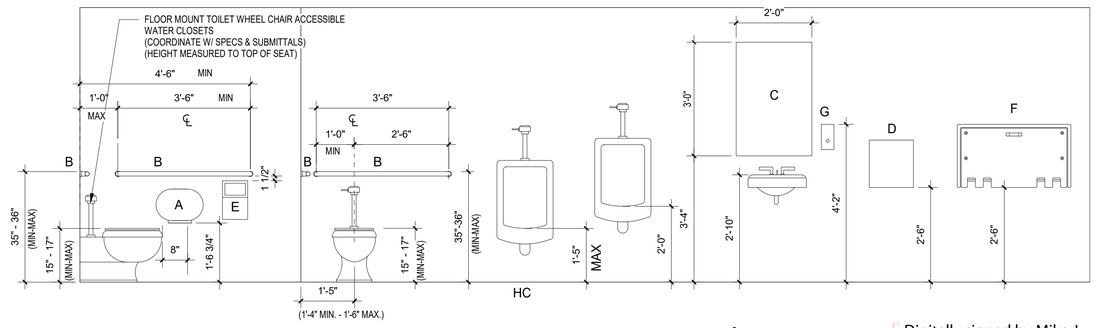
4 WALL SECTION

3/4" = 1'-0"

3 CHASE WALL SECTION

3/4" = 1'-0"

TOILET ACCESSORIES	
A	TOILET PAPER DISPENSER
B	HORIZONTAL GRAB BAR (42" LONG)
C	24"X 36"TILT MIRROR
D	SURFACE MOUNTED HAND DRYER
E	SURFACE MOUNTED NAPKIN DISPOSAL
F	CHANGING STATION
G	SURFACE MOUNTED SOAP DISPENSER



1 RESTROOM MOUNTING HEIGHTS

1/2" = 1'-0"

Mike J Marshall

Digitally signed by Mike J Marshall
Date: 2025.07.18 10:49:47 -05'00'

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PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

STATE OF FLORIDA
MICHAEL J. MARSHALL
AR00135545
REGISTERED ARCHITECT

SHORE AT CRYSTAL BEACH EXPANSION\

NO.	DATE	APPR.	REVISION / ACTION TAKEN

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NOT RELEASED FOR CONSTRUCTION

PROJECT NO: 12105.01
DESIGNED BY: MM
DRAWN BY: MM
CHK'D BY: RLW
PROJ. MGR.: JCP
DATE: JULY, 2025

WALL SECTIONS DOORS, & WINDOWS

A105

100% SUBMITTAL



A - EXISTING PAVILION



B - RAMP TO BE DEMOLISHED



C - RAILING TO BE DEMOLISHED



D - RAILING AND BENCH TO REMAIN



E - STEPS TO BE DEMOLISHED



F - STEPS TO BE DEMOLISHED



G - RESTROOM BOARDWALK LANDING AREA



H - RESTROOM BOARDWALK DUNE



I - RESTROOM AREA

Mike J Marshall

Digitally signed by Mike J Marshall
Date: 2025.07.18 10:49:30 -05'00'

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
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PANAMA CITY BEACH, FL 32413 (850) 230-0150
ENGINEERING BUSINESS: EB-0000340
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MICHAEL J. MARSHALL
AR00135545
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NOT RELEASED FOR CONSTRUCTION

PROJECT NO: 12105.01
DESIGNED BY: MM
DRAWN BY: MM
CHK'D BY: RLW
PROJ. MGR: JCP
DATE: JULY, 2025

PHOTOS

A106

100% SUBMITTAL

Community Development Department

Office of the Director

4100 Indian Bayou Trail | Destin, FL 32541 | Phone: 850-654-1119| Email: planning@cityofdestin.com

October 21, 2025 **Development Order No. 25-22**

Final Development Order:

SHORES AT CRYSTAL BEACH
A MAJOR DEVELOPMENT ORDER
(DEV-001655-2025)

Based upon the City's approval and issuance of this Development Order on October 21, 2025, this document will serve as the Final Development Order for the proposed subject project(s) and includes all the provisions and conditions in the attached Technical Review Committee Report.

The approved project scope includes the expansion of the existing parking lot and the construction of an additional parking lot for the Shores at Crystal Beach Access. This will consist of expanding the existing western parking lot to include 19 standard parking spaces and one ADA accessible spot, while adding 34 Low-Speed Vehicle (LSV) parking spaces in the new eastern lot, along with a restroom facility, a dune walkover, and the associated infrastructure. This approved Development Order is for the property located and described below:

2942, 2966, & 2970 Scenic Highway 98
Parcel IDs: 00-2S-22-0590-0000-00CA,
00-2S-22-0584-0000-0010,
& 00-2S-22-0584-0000-0030

DETERMINATIONS:

1. This final development order is in accordance with the approved construction documents, which is inclusive of the Technical Review Committee Report (Exhibit A), Destin Water Users (DWU) approval with conditions (Exhibit B), Destin Fire Control approval with conditions (Exhibit C), Civil Plans (Exhibit D), Architectural Plans (Exhibit E), Landscape & Lighting Plans (Exhibit F), and Okaloosa Gas District Review (Exhibit G), dated approved October 19, 2025.

2. All the findings and requirements of the Technical Review Committee Report are incorporated herein.

CONDITIONS OF APPROVAL:

SPECIFIC CONDITIONS:

1. Prior to the issuance of a Certificate of Occupancy, the developer/owner, engineer of record and

the contractor shall make themselves familiar with ***Land Development Code (LDC) Section 11.09.00***, Illicit Discharge, and shall comply with the codes, or be subject to enforcement.

2. Any sidewalk damaged during construction shall be replaced from joint to joint. Four inch (4") thick minimum, 4000 psi with fiber, and a light broom finish. Where a sidewalk cuts through a driveway, concrete shall be a minimum of 6" thick, per ***LDC Section 8.01.00.G.6.g***.

3. Any infrastructure damaged within the right-of-way during construction shall be repaired to original or better condition, per ***LDC Section 8.01.00.A.***

4. Ensure public sidewalk crossing driveway meets ADA cross slope requirements of 2% maximum, per ***LDC Section 8.05.03.A***.

5. No overnight storage of construction equipment, materials, or vehicles within the right-of-way. All construction related vehicles can temporarily park (not overnight) within the right-of-way (only along the projects frontage) if the vehicles are a minimum of four feet from the edge of pavement and not blocking any sidewalk, per ***LDC Section 8.01.00.A.3***.

6. Okaloosa Gas District will "Locate and Protect" its facilities in the area of construction. Contractor must call Sunshine 811 (72 hours) prior to construction to have underground utilities located. Please note: The provided Okaloosa Gas District Review (Exhibit G) is for reference, and the locations should be considered approximate for planning purposes only.

7. No work is to be conducted waterward of the mean high-water line.

8. Property is in White Sand Zone 1: White sand must be used as fill material which is to remain uncovered in Zone 1. Other materials may be used under special conditions stipulated by ***LDC Section 11.07.05.*** Prior to bringing any fill material on site, a sample of the proposed white sand fill must be provided and approved by the planning division. Per ***LDC Section 11.07.06***, if at the time of reconstruction or redevelopment of the site, materials and/or soils previously used in development which are not indigenous to Zone 1 are disturbed and or located on the site, the nonconforming materials/soils shall be immediately removed from the site and from the zone using safeguards to prevent discoloring the natural sand at the site and adjacent properties.

9. The location of property pins shall be staked at the beginning of all projects involving site or building improvements that affect structure footprint, impervious surface, or any other improvement that modifies the site. The stakes shall be maintained on site throughout the entire project timeline up to issuance of the Certificate of Occupancy or Completion.

10. The applicant shall comply with all Destin Water Users (DWU) and Destin Fire Control District conditions of approval outlined in the corresponding approval letters.

11. Project must comply with the standards in ***LDC Section 7.17.00.*** to include ***Section 7.17.04*** - Outdoor *Lighting Standards for the Marine Turtle Conservation Zone.*

12. The general contractor will submit a detailed construction vehicle parking plan prior to the commencement of construction and include it when applying for building permits.

13. Per Florida Power and Light (FPL), the contractor shall contact the area service planner at 850-833-4814 for any required services.

GENERAL CONDITIONS:

1. Pursuant to the City of Destin Land Development Code:

   Construction of infrastructure must commence within one (1) year of approval date (date from which the Final Development Order is issued by the Community Development Department) of the Final Development Order on **October 21, 2025** (no later than **October 21, 2026**) and must be completed as shown on plans approved by the Technical Review Committee.

   WARNING: If the applicant/owner has not obtained a building permit(s) for either the construction of infrastructure or construction of the entire project and that construction has not commenced within one (1) year of issuance of the final development order, the final development order will become null and void and the application for development order approval must be re-initiated (*Land Development Code (LDC) Section 2.21.00*).

   NOTE: Construction of infrastructure shall be defined as site work, grading, or other construction activity (not including clearing and grubbing or demolition of existing structures) related to installation of roadways, access drives, parking lots, underground utilities, stormwater or drainage facilities, or building foundations (*LDC Section 2.21.00*).

   NOTE: An applicant/owner who desires to extend the twelve (12) month (1 year) deadline for either the construction of infrastructure or construction of the entire project must submit a written request to the Community Development Department, no less than thirty (30) days prior to the expiration of the twelve (12) month deadline to obtain a building permit and commence construction of infrastructure or construction of the entire project. The applicant may receive only one extension, and such extension shall not exceed one year. The applicant/owner should review *LDC Section 2.21.00* for further explanation of the Development Order extension process.

2. If the applicant fully complies with the requirements of Condition No. 1. above, the concurrency capacity allocation status for **"Shores at Crystal Beach**" will be protected. **However, the protected concurrency status will be lost and the application for development order approval must be re-initiated if:**

   A. Construction permits(s) in association with construction of infrastructure or construction of the entire project are not obtained in accordance with *LDC Section 2.10.00* to maintain concurrency, or

   B. Construction activity ceases for a period of one (1) year after a building permit for construction of infrastructure or construction of the entire project has been issued so that concurrency is not maintained under *LDC Article 6*.

3. The applicant must obtain City of Destin permits for the following activities on and off site (these may require bonding):

   A. Disturbance of the City's Right-Of-Way.
   B. Pavement cuts.

C. Construction of any kind.
D. Clearing, grubbing, or demolition.
E. Paving, grading, drainage, sidewalks.
F. Signage.
G. Installation of utilities.
H. Construction trailers.
I. Site Screening.

4. The following items must be addressed in the appropriate order:

A. **Prior to the issuance of any City Permit,** a sign must be posted on the subject property notifying the public of emergency contact information of the person responsible for the project. Refer to ***LDC 7.01.02(B)*** for details on the size, location and contents of the sign. Additionally, a posting of emergency contact information sign affidavit must be submitted to the Planning Division prior to the issuance of any permits.

B. **Prior to the Commencement of Construction,** a fence permit, with a copy of the approved Erosion Control, Staging, and Construction Parking Plan for the site must be submitted and approved by the City. The submitted plan shall also indicate the location of the Construction Site Screening. Said screening must meet the requirements set forth in ***Destin Code of Ordinances, Section 6-51 Screen Criteria***.

C. **Prior to the issuance of any City Permit,** obtain a Florida Department of Environmental Protection (FDEP) National Pollutant Discharge Elimination System (NPDES) permit and submit a copy to the City Engineer, if applicable. Provide a copy of the Stormwater Pollution Prevention Plan (SWPPP) as required for the NPDES permit for all construction disturbance over 1 acre.

D. **Prior to the issuance of any City Permit,** a copy of the Northwest Florida Water Management District (NWFWMD) storm water permit and a NPDES storm water construction generic Permit (if applicable) approval shall be provided.

E. **Prior to the issuance of a Certificate of Occupancy,** the developer/owner, engineer of record and the contractor shall make themselves familiar with ***LDC Article 11.09.00., Illicit Discharge***, and shall comply with the codes, or be subject to enforcement.

F. **Prior to the issuance of a Certificate of Occupancy,** all applicable Impact Fees and other outstanding costs associated with this project that are owed to the City must be paid in full. The fee below is an ***estimate only*** and represents the Impact Fee rate as currently adopted. The fee will be reevaluated and assessed based on the fees adopted at the time of Building Permit application submittal.

Estimated impact fee total: $0. ***Per LDC Section 19.01.01.D, impact fees shall not apply to development for which the City of Destin is the applicant.***

G. **Prior to the issuance of a Certificate of Occupancy**, the site layout, landscaping, outdoor lighting and architectural design must be inspected and approved by the Community Development Department.

H. **Prior to the issuance of a Certificate of Occupancy,** all assigned address number(s) for the principal building(s) shall be installed in accordance with ***LDC Section 7.18.04***.

_____

David Prichard Date
Community Development Director
City of Destin

_____

Jeffrey Cozadd Date
Projects/Grants/Contracts Manager, Applicant
City of Destin

EXHIBIT A
TECHNICAL REVIEW COMMITTEE REPORT
SHORES AT CRYSTAL BEACH
MAJOR DEVELOPMENT ORDER (DEV-001331-2024)

Applicant:	City of Destin
Agent:	Jeffrey Petermann, P.E.
Location:	2942, 2966, & 2970 Scenic Highway 98
Request:	Expansion of the existing western parking lot to include 19 standard parking spaces, and one ADA accessible spot, while adding 34 Low-Speed Vehicle (LSV) parking spaces in the new eastern lot, along with a restroom facility, a dune walkover, and the associated infrastructure.
Parcel Size:	±1.80 acres, ±78,429.45 square feet
Future Land Use:	Recreation (REC)
Zoning District:	Recreation (REC)
Density:	N/A
Intensity:	FAR: 0.20 Allowed; 0.0352 Proposed
Application Date:	July 31, 2025
Approved Site Plan Date:	October 19, 2025

DISCUSSION/FINDINGS

The approved project scope includes the expansion to the existing parking lot and the construction of an additional parking lot for the Shores at Crystal Beach Access. This will consist of expanding the existing western parking lot to include 19 standard parking spaces and one ADA accessible spot, while adding 34 Low-Speed Vehicle (LSV) parking spaces in the new eastern lot, along with a restroom facility, a dune walkover, and the associated infrastructure. The subject project is located at 2942, 2966, & 2970 Scenic Highway 98 (Parcel IDs: 00-2S-22-0590-0000-00CA, 00-2S-22-0584-0000-0010, & 00-2S-22-0584-0000-0030), totaling approximately 1.80 acres in total.

COMPREHENSIVE PLAN/LAND DEVELOPMENT CODE

The subject property is within the **Crystal Beach Planning Area.** Also, the property has a Future Land Use Map Designation of **Recreation (REC)** and a Zoning Designation of **Recreation (REC).** The proposed use is consistent with these land use regulations. The project, as required by the Comprehensive Plan and the Land Development Code, has undergone a compatibility review and meets the minimum requirements.

EXISTING USES

Nature Parks and Other Similar Institutions (NAICs 712190)

PROPOSED USES

Nature Parks and Other Similar Institutions (NAICs 712190)

INTENSITY

Maximum allowed:	0.20 FAR
Provided:	0.0352 FAR

HEIGHT

Maximum allowed:	35’ / 3 stories
Approved:	15’ / 1 story

SETBACKS

WESTERN PROPERTIES (00-2S-22-0590-0000-00CA, 00-2S-22-0584-0000-0010)

Front required:	None
Front approved:	±106.4’
Side minimum required (east):	None
Side approved (east):	±4.5’
Side minimum required (west):	None
Side approved (west):	±56.2’
Rear minimum required:	None
Rear approved:	>100’

EASTERN PROPERTY (00-2S-22-0584-0000-0030)

Front required:	None
Front approved:	±115.8’
Side minimum required (east):	None
Side approved (east):	±11.7’
Side minimum required (west):	None
Side approved (west):	±27.1’
Rear minimum required:	None
Rear approved:	>100’

OPEN SPACE

Minimum required:	25%
Provided:	74%

PLATTING

There is no platting associated with this application.

CONCURRENCY MANAGEMENT

Concurrency requirements have been met:

Stormwater Management: Signed October 14, 2025
Potable Water/Sanitary Sewer: Signed September 24, 2025
Solid Waste: September 3, 2025

AIRPORT PROTECTION

As proposed, this project is not affected by nor affects the Destin Executive Airport. The applicant has indicated on the development order application that the proposed project is not within the Airport impact area.

NOTE: Per Okaloosa County Airports, all contractors that will require a crane to hang any material will need to file notice with the Federal Aviation Administration’s (FAA) Obstruction Evaluation

Group (OEG) and obtain an Aeronautical Study Number (ASN). File Notice by submitting FAA Form 7460-1 at https://oeaaa.faa.gov/oeaaa/external/portal.jspb. The general contractor can obtain the ASN for the entirety of the project and all subcontractors can fall under their ASN.

RIGHT-OF-WAY DEDICATION

The project does not include any right-of-way dedication.

INGRESS/EGRESS

Vehicular access to the property is provided from the Scenic Highway 98 and Hutchinson Street public rights-of-way (ROWs).

PEDESTRIAN NETWORK

The project provides a complete pedestrian network as required in ***LDC 8.09.03.A(6)***. A continuous internal sidewalk is provided throughout the development.

PARKING:

Required vehicle parking spaces for use	
Park – 1 space:	*1*
Required vehicle parking spaces for entire site:	1
Provided vehicle parking spaces for entire site:	20
Provided Low Speed Vehicle (LSV) parking spaces:	34
Required bicycle parking spaces for use (10%):	1
Provided bicycle parking spaces:	10

UTILITIES:

All new utilities are required to be underground.

STORMWATER:

The City Manager's Stormwater designee approved the stormwater plan on October 14, 2025.

REFUSE COLLECTION:

Trash receptacles are located throughout the park and inside the restrooms. Trash is collected by City of Destin Employees 7 days a week. All non-construction related dumpsters, trashcans, and recycling bins shall be placed in solid waste collection areas or inside a building.

WHITE SANDS ZONE

The proposed project is located within White Sand Zone 1. Therefore, only white sand shall be utilized as fill on site, per ***LDC Section 11.07.02.A***. Prior to bringing any fill onto the site, the applicant shall provide Staff with a sample of the proposed fill for review and approval. 1. Per ***LDC Section 11.07.06***, if at the time of reconstruction or redevelopment of the site, materials and/or soils previously used in development which are not indigenous to Zone 1 are disturbed and or located on the site, the nonconforming materials/soils shall be immediately removed from the site and from the zone using safeguards to prevent discoloring the natural sand at the site and adjacent properties.

LANDSCAPING

Street Trees Required (Sabal Palms): 8 trees
Reforestation Trees Required: 18 trees
Front Perimeter Landscape Buffer Required (1 per 25 linear feet): 6 trees
Interior Parking Islands Required: 5 trees

Total required trees:	**37**
Total trees provided*:	**78**

***Modification/alteration to any approved species of trees or shrubs shall be reviewed and approved by the Community Development Director or their designee prior to installation. A Development Order (DO) Deviation may be required if the proposed changes do not substantially meet the originally approved landscape plan.**

SIGNS
No signs were reviewed for permitting or compliance with the Development Order application. All proposed signs must be permitted through a sign permit and shall comply with the sign code section of the Destin Land Development Code in effect at the time a sign application is submitted.

IMPACT FEES:
Per ***LDC Section 19.01.01.D***, impact fees shall not apply to development for which the City of Destin is the applicant.

OTHER FEES:
NONE

OTHER COMMENTS:
Staff received public comment from and responded to one citizen inquiring about the scope of work, followed up by questions regarding the pedestrian and vehicular flow.

PART I
CHARTER[1]

ARTICLE I. POWERS

Section 1.01 Powers of the City of Destin.

The city known as Destin shall have all powers possible for a city to have under the Constitution and laws of the state as fully and completely as though they were specifically enumerated in this charter unless prohibited by or contrary to the provisions of this charter; and, in addition to the foregoing and not by way of limitation, the city shall have the following powers:

(a) To organize and regulate its internal affairs and to establish, alter, abolish, and terminate permanent offices, positions, and employments, including citizen board positions, and to define functions, powers, and duties, and fix their term, tenure, and compensation.

(b) To adopt, amend, and repeal such ordinances, resolutions, and codes as may be required for the good government of the city, including local police ordinances carrying penalties, zoning ordinances, housing codes, building and related technical codes, business regulations, and ordinances relating to and regulating the sales of alcoholic beverages.

(c) To prepare and adopt comprehensive plans for the development of the city including provision for subdivision regulation, environment protection, pollution control, community facilities and all other related activities. To this end the city is mandated to prepare its comprehensive plan for submission to the Department of Community Affairs by February 1, 1990, in accordance with s. 163.3167(2)(a), Florida Statutes.

(1) *Transitional comprehensive plan.* Until such time as the city adopts a comprehensive plan, under Section 1.01(c), the Comprehensive Plan of Okaloosa County, Florida, as it exists on the date the city commences corporate existence shall remain in effect as the city's transitional comprehensive plan. However, all powers, duties, and authority of the board, official, or agency of Okaloosa County as described in the text of the plan shall be vested in the city council, which shall be deemed the governing body, until the council delegates such power, duty or authority by an appropriate ordinance. Amendments shall be accomplished in the manner set forth in s. 163.3187, Florida Statutes, with the city council being the governing body, as provided therein. The city shall be fully empowered to amend the comprehensive plan in whole or in part, and to adopt appropriate ordinances to enforce the plan. Subsequent to the commencement of the corporate existence of the city no amendment to the Okaloosa County Comprehensive Plan shall be deemed an amendment of the city's transitional comprehensive plan or otherwise have effect within the corporate limits of the city.

[1]Editor's note(s)—Part I contains the charter of the city, chapter 84-422 of the Laws of Florida, which is set out as enacted with later amendments having been worked in. Material in brackets has been added where necessary to clarify the intent or to facilitate indexing, except that obviously misspelled words have been corrected without notation.

(2) *Transitional land use regulations.* To implement the transitional comprehensive plan, and the permanent plan when adopted, the city shall adopt ordinances providing the zoning and land use regulations within the corporate limits. Until such time as the city adopts such regulations by ordinance, the zoning ordinances, subdivision ordinances, and planned development project ordinances of Okaloosa County, as they exist on the date the city commences corporate existence, shall remain in effect as the transitional land use regulations of the city; provided, that all powers, duties and authorities of the planning and zoning board, board of adjustment, and Board of County Commissioners, as set forth in the text of those transitional ordinances shall be vested in the city council until the council, by appropriate ordinance, delegates all or a portion thereof. The city council is fully empowered to amend, supersede, enforce, or repeal the transitional land use regulations, or any portion thereof, by ordinance. Subsequent to the commencement of the city's corporate existence, no amendment of the zoning ordinances, subdivision ordinances, or planned development project ordinances enacted by the Okaloosa County Commission shall be deemed an amendment of the city's transitional land use regulations or shall otherwise take effect within the corporate limits.

(d) To sue and be sued; to have a corporate seal; to enter into contracts; to buy, receive by gift or devise, sell, lease, hold and dispose of real and personal property for any public purpose; to have all power of eminent domain and to acquire by condemnation or otherwise all private lands, riparian and other rights, necessary for public purposes and improvements.

(e)

(1)

To provide such municipal services as will protect and promote the health and well being of the city and its inhabitants, such services to include, but not to be limited to, police, fire, utilities, and sanitation.

(2) When deemed advisable the city may provide any such services by contracting for these services or granting a franchise for the services, as an alternative to providing the service directly.

(3) However, the city shall not establish or operate a fire department until such time as the Destin Fire Control District is abolished or transferred to the city pursuant to legislative act subsequent to the time the city becomes fully operational under this charter.

(f)

(1)

To raise funds by taxation and to make such levy upon the taxable property in the City of Destin as will provide funds necessary for the operation of the city and for such other public purchases as may be provided pursuant to general law. Taxes shall not be placed on utilities or property without a referendum.

(2) Whenever any ordinance providing for an increase in the rate of ad valorem taxation levied by the city results in a total millage for ad valorem taxes levied by the city exceeding or continuing to exceed 2 mills, said ordinance shall be referred to a city election to be held within 60 days of its adoption by the city council. If a majority of the qualified electors voting in the referendum vote against the ordinance, it shall be deemed repealed upon certification of the election results.

(g) To appropriate and expend money for any public purpose including, but not limited to, funds for publicizing or advertising the City of Destin.

(h) To borrow money for public purposes.

(i)

(1)

To levy special benefit assessments for local improvements and to acquire a lien on real property for failure to pay the assessment for the improvements.

(2) No special assessment for local improvements shall be levied by the city against any private property unless the procedures to make such levy have been invoked by a petition submitted to the city council bearing the bona fide signatures of the majority of the owners of record, as of the date of such submission, of the property to be assessed.

(j) To license and tax the privilege of engaging in businesses, occupations, and professions within the corporate limits of the city and to classify and define such businesses, occupations, and professions for the purpose of taxation.

(k) To do and perform all other acts deemed by the council to be necessary and best for the improvement and general interest of the city, and the protection of the health, life, and property of the city and its inhabitants, not contrary to the Laws of Florida.

(Laws of Fla., Ch. 87-533, § 1; Ord. No. 291, § 2, 8-5-96)

Section 1.02 Construction of powers.

The powers of the city under this charter shall be construed liberally in favor of the city.

Section 1.03 Intergovernmental relations.

The city may exercise any of its powers or perform any of its functions and may participate in the financing thereof, jointly or in cooperation, by contract or otherwise, with any one or more other municipalities, state, county, or local governments or civil divisions or agencies thereof, or the United States or any agency thereof.

ARTICLE II. CORPORATE LIMITS

Section 2.01 Description of corporate limits.

The following area shall constitute the corporate limits of the City of Destin:

;xir; A parcel of land in Township 2 South Ranges 22 and 23 West Okaloosa County, Florida bounded on the East by the East line of Range 22 West (Okaloosa-Walton County line), on the South by the Gulf of Mexico, on the West by the East Pass Inlet to the Gulf of Mexico, and on the North by Choctawhatchee Bay, including Old Pass Lagoon and all bays and inlets along that portion of Choctawhatchee Bay between East Pass and the East line of Range 22 West, being more particularly described as follows:

;xir; Begin at the intersection of the East line of Range 22 West Okaloosa County, Florida (Okaloosa-Walton County line) and the mean high water line of the Gulf of Mexico; thence meander westerly along the mean high water line of the Gulf of Mexico and the East Pass Inlet to the Gulf of Mexico to a point on the western extremity of the Holiday Isle peninsula; thence traverse northerly across the entrance of Old Pass Lagoon to a point on the mean high water line of Choctawhatchee Bay; thence meander northwesterly, northeasterly, and easterly along the mean high water line of Choctawhatchee Bay, traversing across the mouth of any inlets, bayous, or streams, to a point on the East line of Range 22 West; thence go South along the East line of Range 22 West to the mean high water line of the Gulf of Mexico and the point of beginning. The above described parcel being shown on Exhibit "A" attached.

The following portion of the previously described area shall be excluded from the corporate limits of the City of Destin:

;xir; Begin at the intersection of the east boundary of the Indian Bayou Subdivision and the mean high water line of Indian Bayou; thence meander southerly along the east boundary of the Indian Bayou Subdivision; thence proceed westerly along the southerly border of said subdivision to the east right-of-way of Airport Road; thence proceed south along said east right-of-way to a point of intersection with the north right-of-way of U.S. Highway 98; thence meander easterly along said north right-of-way to a point of intersection with the north right-of-way of U.S. Highway 98A; thence proceed easterly along said northerly right-of-way of U.S. Highway 98A to a point of intersection with the eastern Okaloosa County Border; thence proceed northerly along the east border of Okaloosa County to a point of intersection with the mean high water line of Choctawhatchee Bay; thence meander westerly along said mean high water line to a point of intersection with the easterly mean high water line of Indian Bayou; thence meander southerly along said mean high water line to the point of beginning.

(Laws of Fla., Ch. 85-471, § 1)

ARTICLE III. LEGISLATIVE

Section 3.01 City council; composition.

There shall be a city council consisting of seven members who shall be electors of the city elected by the electors of the city at large. Each person qualifying for city council shall have resided within city boundaries which shall include areas annexed within the previous year, for at least 1 year prior to the date on which that person qualifies to run for the office of city council.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90)

Section 3.02 Mayor; composition.

There shall be a mayor who shall be elected in the manner set forth in this charter. The mayor shall be responsible for performing all duties set forth in this charter. The mayor shall be an elector of the city and shall have resided within the city boundaries which shall include areas annexed within the previous year, for at least 1 year prior to the date on which that person qualifies to run for the office of mayor.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90)

Section 3.03 Election and terms.

The regular election of the mayor and city council members shall be held on the day of the State General Election in even-numbered years in the manner provided in Article V of this charter. No mayor or council member shall serve more than 2 terms consecutively.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90)

Section 3.04 Compensation and expenses.

Council members shall serve without salary, but shall be reimbursed for any expenses incurred while traveling on or performing city business. However, for such expense reimbursement shall be line item and shall be submitted to and approved by the council.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90)

Section 3.05 Mayor pro tem.

The council shall elect from among its members a mayor pro tem who shall serve a two-year term. The mayor pro tem shall be elected biannually at the first regular council meeting after the city election.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90)

Section 3.06 General powers and duties.

All legislative powers of the city shall be vested in the city council, which shall provide for the exercise thereof and for the performance of all duties and obligations imposed on the city by law.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90)

Section 3.07 Powers and duties of the mayor.

The mayor shall be recognized as head of city government for all ceremonial purposes, by the Governor for purposes of military law, for service of process, execution of contracts, deeds and other documents and shall perform such other duties and functions as may be designated by the city council. Further, the mayor shall:

(a) Attend and preside at all council meetings.

(b) Make such reports as the council may require.

(c) Present a state of the city message at a public meeting in February of each year.

(d) Perform such other duties as are specified in this charter or may be required by the council.

(e) Have the power to summon the posse to suppress civil disturbances and to keep law and order during times of emergency.

(f) Be permitted to participate in debate in council meetings, but shall not make or second motions.

(g) At all times represent the adopted position of the council.

(h) Cast a deciding vote, should any issue before the city council end in a tie vote.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90)

Section 3.08 Prohibitions.

(a) *Holding other office.* No elected city official shall hold any compensated, appointive office, or position of employment with the City of Destin until 1 year after the expiration of the term for which he or she was elected.

(b) *Appointments and removals.* Neither the mayor nor the council, nor any of its individual members, shall in any manner dictate the appointment or removal of any city employee whom the city manager or any subordinates are empowered to appoint, but the council may express its views and fully and freely discuss with the city manager anything pertaining to appointment and removal of such officers and employees. Appointment of departmental heads by the city manager must be agreed upon by a majority vote of the council.

(c) *Interference with administration.* Except for the purpose of inquiries and investigations, the mayor or council members shall deal directly with the city manager.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90)

Section 3.09 Vacancies, forfeiture of office, filling of vacancies.

(a) *Vacancies.* The office of the mayor or a council member shall become vacant upon death, permanent incapacitation due to long-term illness if such incapacitation is attested to in writing by not fewer than 3 physicians, resignation, removal from office in any manner authorized by law, or forfeiture of the council member's office.

(b) *Forfeiture of office.* The mayor or a council member shall forfeit office if he or she:

(1) At any time during the term of office lacks any qualification for the office prescribed by this charter or by law; or

(2) Violates any standard of conduct or code of ethics established by law for public officials; or

(3) Is absent from 3 consecutive regular council meetings without being excused by council.

(c) *Filling of vacancies.* A vacancy in the office of mayor or on the council shall be filled in one of the following ways as follows:

(1) If there is less than one year remaining in the unexpired term or if there is less than one before the next regular city election, the council by a majority vote of the remaining members shall choose a successor to serve until a newly elected mayor or council member is qualified.

(2) If there is one year or more remaining in the unexpired term an no regular city election is scheduled within one year, the council shall fill the vacancy on an interim basis as provided in 3.09(c)(1), and shall schedule a special election to be held not sooner than 60 days, nor more than 90 days following the occurrence of the vacancy.

(3) In the event a vacated city council seat(s) is filled at a regular city election, then the candidate(s) receiving the highest number of votes, but not receiving enough votes to be elected to a four-year term, shall be the candidate(s) elected to fill the unexpired term of the vacated council seat(s).

(4) A council member or mayor elected to fill the unexpired term of a vacated council or mayor seat shall be eligible to run for one subsequent consecutive term.

(5) Notwithstanding any quorum requirements established herein, if at any time the membership of the council is reduced to less than a quorum, the remaining members may by majority vote, appoint additional members under 3.09(c)(1) or (2).

(d) *Extraordinary vacancies.* In the event that all members of the council are removed by death, disability or forfeiture of office, the governor shall appoint an interim council that shall call a special election as provided in 3.09(c) and such election shall be held in the same manner as the first election under this charter.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90; Ord. No. 281, § 2, 8-5-96; Ord. No. 342, § 2, 1-3-00)

Section 3.10 Clerk of the council.

The city clerk shall serve as clerk of the council and shall give notice of council meetings to its members and to the public and shall keep the minutes of its proceedings which shall be a public record.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90)

Section 3.11 Procedure.

(a) *Meetings.* The council shall meet regularly at least once in every month at such times and places as the council may prescribe by rule. Special meetings may be held on the call of the mayor or of a majority of the members and, whenever practicable, upon no less than a 12-hour notice to each member and the public. All meetings will be public.

(b) *Rules.* The council shall determine its own rules and order of business and shall keep a written permanent record of all minutes of meetings as required by general law.

(c) *Voting.* All votes shall be by roll call and shall be recorded by name and vote in the minutes. A majority of the council shall constitute a quorum. No action of the council except as provided for in Section 3.08 shall be valid or binding unless adopted by the affirmative vote of the majority of a quorum present. All council members present shall be recorded as voting "yes" or "no" on all matters before the council except on those matters on which the council members announces in advance a conflict of interest as required by general [law].

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90)

Section 3.12 Ordinances in general.

(a) *Procedure.* A proposed ordinance shall be read by title, or in full, on at least 2 separate days at either regular or special meetings of the council. A proposed ordinance shall be advertised in accordance with Florida Statutes.

(b) *Action requiring an ordinance.* In addition to other acts required by general law or by specific provisions of this charter to be done by ordinance, those acts of the city council shall by ordinance:

(1) Adopt or amend an administrative code or establish, alter, or abolish any city department or agency.

(2) Establish a rule or regulation the violation of with carries a penalty.

(3) Levy taxes authorized by general law.

(4) Grant, renew, or extend a franchise.

(5) Authorize the borrowing of money.

(6) Authorize by administrative action the conveyance or lease of any lands of the city.

(c) *Emergency appropriations.* The council may make emergency appropriations in the manner provided in this section. To the extent that there are no available unappropriated revenues to meet such appropriations, the council may by such emergency ordinance authorize the issuance of emergency notes, which may be renewed from time to time, but the emergency notes and renewals for any fiscal year shall be paid not later than the first day of the fiscal year next succeeding that in which the emergency appropriation was made.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90; Ord. No. 285, § 2, 8-5-96)

Section 3.13 Budget adoption.

The council shall by ordinance adopt a budget on or before the 30th day of September of each year. An ordinance adopting an annual budget shall constitute appropriations of the amounts specified therein as expenditures from funds indicated.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90)

Section 3.14 Appropriation amendments during the fiscal year.

(a) *Supplemental appropriations.* If during the fiscal year revenues in excess of those estimated in the budget are available for appropriation, the council by ordinance may make supplemental appropriations for the year up to the amount of such excess.

(b) *Reduction of appropriations.* If at any time during the fiscal year it appears probable to the city manager that the revenues available will be insufficient to meet the amount appropriated, he shall report to the council without delay, indicating the estimated amount of the deficit, any remedial action taken by him, and his recommendations as to any other steps that should be taken. The council shall then take such further action as it deems necessary to prevent or minimize any deficit and for that purpose it may by ordinance reduce one or more appropriations.

(c) *Transfer of appropriations.* At any time during the fiscal year the city manager may transfer part or all of any unencumbered appropriation balance among programs within a department, office or agency and, the council may by a duly passed motion transfer part or all of any unencumbered appropriation balance from one department, office or agency to another, and the summation of all such transfers by the city council will be included in an ordinance prior to closing of the fiscal year.

(d) *Limitations.* No appropriation for debt service may be reduced or transferred, and no appropriation may be reduced below any amount required by law to be appropriated or by more than the amount of the unencumbered balance thereof.

(e) *Effective date.* Supplemental appropriations and reduction or transfer of appropriations authorized by this section may be made effective immediately upon adoption.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90; Ord. No. 284, § 2, 1-22-96)

Section 3.15 Authentication, recording and disposition of charter amendments, ordinances and resolutions.

(a) *Authentication.* The mayor and the city clerk shall authenticate by their signatures all ordinances and resolutions adopted by the council. In addition, when charter amendments have been approved by the electors, the mayor and city clerk shall authenticate by their signatures the charter amendment, such authentication to reflect the approval of the charter amendment by the electorate.

(b) *Recording.* The city clerk shall keep properly indexed books in which shall be recorded, in full, all ordinances and resolutions passed by the council. Ordinances shall, at the direction of the council, be periodically revised and recodified to eliminate errors and to remove obsolete material. Such revision and recodification shall be performed at least once every four (4) years. The city clerk shall also maintain the city charter in current form and shall enter all charter amendments and send copies of amendments to the Secretary of State's office.

(c) *Printing.* The council shall, by ordinance, establish procedures for printing all resolutions, ordinances, technical codes adopted by reference, and this charter. All such documents shall be made available at the office of the city clerk for public inspection and available may be purchased at a reasonable price.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90)

Section 3.16 Codes of technical regulations.

The council may adopt any standard code of technical regulations by reference thereto in an adopting ordinance and such ordinance may amend the code. The procedure and requirements governing such an adopting ordinance shall be as prescribed for ordinances generally except that:

(a) The requirements of Section 3.15 for distribution and filing of copies of the ordinance shall be construed to include copies of the code of technical regulations as well as of the adopting ordinance, and

(b) A copy of each adopted code of technical regulations as well as of the adopting ordinance shall be authenticated and recorded by the mayor pursuant to subsection 3.15(a). Copies of any adopted code of technical regulations shall be made available by the designated city official for distribution or for purchase at a reasonable price.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90)

ARTICLE IV. ADMINISTRATIVE

Section 4.01 City manager.

There shall be a city manager who shall be fully engaged in work for the city and shall serve at the pleasure of the city council.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90)

Section 4.02 City manager; qualifications; term of office.

(a) *Qualifications.* The city manager shall be appointed by the council subject to a 70 percent vote of approval by the council.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90)

Section 4.03 Salary.

The compensation for city manager shall be fixed by the council.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90)

Section 4.04 Vacancy in office of city manager.

Any vacancy in the office of city manager shall be filled by the city council.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90)

Section 4.05 Powers and duties of city manager.

The city manager shall:

(a) Attend the meetings of the council.

(b) Draw and sign vouchers upon the depositories which vouchers shall be countersigned by the mayor, or mayor pro tem, and keep a true and accurate account of same. The city manager shall prepare and submit to the council once each month a statement of all finances, receipts, and disbursements.

(c) Sign all licenses issued by the city, and issue receipts for all moneys paid, to the city manager, and shall deposit said money in the proper depositories on the first regular banking day after receipt.

(d) Provide administrative services as required by the mayor and council.

(e) Appoint and, when deemed to be in the best interest of the city, suspend, or remove any city employee except as otherwise provided by law, this charter, or personnel rules adopted pursuant to this charter. Such suspension or removal shall be subject to review and reversal upon appeal, as set forth by ordinance. The city manager may authorize any administrative officer who is subject to the city manager's direction and supervision to exercise these powers with respect to subordinates in that officer's department, office, or agency, subject to the same appeal procedure.

(f) Direct and supervise the administration of all departments, offices, and agencies of the city, except as otherwise provided by this charter or by law.

(g) See that all laws, provisions of this charter, and acts of the council, subject to his direction and supervision, are faithfully executed.

(h) Prepare and submit the annual budget, budget message, and capital programs to the council in the form prescribed by general law.

(i) Submit to the council and make available to the public a complete report on the finances and administrative activities of the city as of the end of each fiscal year.

(j) Keep the council fully advised as to the financial condition and future needs of the city and make recommendations to the council concerning the affairs of the city.

(k) Sign contracts on behalf of the city.

(l) Perform such other duties as are specified in this charter or may be required by the council.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90)

Section 4.06 City clerk—Powers and duties.

(a) The city clerk shall be fully engaged in work for the city.

(b) The city clerk shall be keeper of the city seal.

(c) The city clerk shall serve as clerk of the council who shall give notice of council meetings to its members and to the public, shall keep the minutes of its proceedings which shall be a public record, shall provide administrative services as required by the council.

(d) The city clerk or deputy city clerk shall attend all meetings of the council.

(e) The city clerk shall be custodian of all city records.

(f) The city clerk shall perform such other duties as may be required by the city council or the city manager.

(Res. No. 90-31, 9-6-90, Ref. of 11-6-90)

ARTICLE V. NOMINATIONS AND ELECTIONS

Section 5.01 Electors.

Any person who is a resident of the city, who has qualified as an elector of this state, and who registers in the procedural manner prescribed by the general law and ordinances of the city, shall be an elector of the city.

Section 5.02 Nonpartisan elections.

All qualifications and elections for the office of city council shall be conducted on a nonpartisan basis without regard for or designation of political party affiliation of any candidate on any qualifying petition or ballot.

Section 5.03 Qualifications.

Candidates for the offices of city council member and mayor shall qualify for such office by the filing of a written notice of candidacy with the designated city official, by the payment of any applicable qualifying fee at such time and in such manner as may be prescribed by ordinance, and by filing with the designated city official a petition signed by a minimum of 25 qualified electors who are qualified to vote in the city election. No person shall qualify to run for more than one office in any given election.

Section 5.04 Form of ballots.

The council by ordinance shall prescribe the form of the ballot including the method for listing candidates for mayor and city council elections and any other city election. An ordinance or charter amendment to be voted on by the city electors shall be presented for voting by ballot title. The ballot title of a measure may differ from its legal title but it shall be a clear and concise statement describing the substance of the measure and shall be without argument or prejudice. Below the ballot title shall appear the following question: "Shall the above described (ordinance) (amendment) be adopted?" Immediately below such question shall appear the word "yes" and also the word "no" with a sufficient blank space thereafter for the placing of the symbol "X" to indicate the voter's choice or with a lever opposite "yes" and "no" if voting machines are used.

Section 5.05 Elections.

Council members shall be elected to serve for a 4-year term. All council seats shall be at-large positions. There shall be a mayor elected, who is the person receiving the highest number of votes in an election for the office of mayor. During the election year when four city council members are to be elected, the four candidates receiving the highest number of votes shall be elected. During the election year when three city council members are to be elected, the three candidates receiving the highest number of votes shall be elected.

In case of 2 or more persons receiving an equal and highest number of votes for the same office, and the tie vote affects the filling of an officer, such persons shall draw lots to determine who shall be elected to the office. The canvassing board shall determine the method of drawing lots.

(Ord. No. 282, § 2, 8-5-96; Ord. No. 283, § 2, 8-5-96)

ARTICLE VI. INITIATIVE, REFERENDUM, RECALL

Section 6.01 Initiative.

The qualified voters of the city shall have the power to propose ordinances to the council and, if the council fails to adopt an ordinance so proposed without any change, to adopt or reject it at a city election; provided, such

power shall not extend to the budget or capital program or to any ordinances relating to appropriation of money, levy of taxes, or salaries of city officers or employees.

Section 6.02 Referendum.

The qualified voters of the city shall have the power to require reconsideration by the council of any adopted ordinance and, if the council fails to repeal an ordinance so reconsidered, to approve or reject it at a city election; provided such power shall not extend to the budget or capital program or any emergency ordinance or ordinances relating to appropriation of money, salaries of city officers or employees, or levy of taxes except as provided in Section 1.01 of this charter.

Editor's note(s)—The Florida Statutes provide for referendums as to a number of subjects: (1) Municipal public works, § 180.10 et seq.; (2) Municipal bond issues, §§ 100.201 et seq., 166.121; (3) Municipal annexation or contraction, §§ 171.0413, 177.051; (4) Charter amendments, §§ 166.021, 166.031; (5) Exceeding millage limits, § 200.101.

Section 6.03 Recall.

The qualified voters of the city shall have the power to recall from office any elected official of the city in the manner prescribed by general law for the removal of members of the governing body.

Section 6.04 Commencement of proceedings.

Any five qualified voters may commence initiative, referendum, and recall proceedings by filing with the city manager or other official designated by the council an affidavit stating they will constitute the petitioners' committee and be responsible for circulating the petition and filing it in proper form, stating their names and addresses and specifying the address to which all notices to the committee are to be sent, and setting out in full the proposed initiative ordinance or citing the ordinance sought to be reconsidered or the reasons for the official's recall. Promptly after the affidavit of the petitioners' committee is filed, the city manager or other official designated by the council shall, at the committee's request, issue the appropriate petition blanks to the petitioners' committee at the committee's expense.

Section 6.05 Petition.

(a) *Number of signatures.* Initiative, referendum, and recall petitions must be signed by qualified voters of the city equal in number to at least 10 percent of the total number of qualified voters registered to vote at the last regular city election.

(b) *Form and content.* All papers of a petition shall be uniform in size and style and shall be assembled as one instrument for filing. Each signature shall be executed in ink or indelible pencil followed by the address of the person signing. Petitions shall contain or have attached thereto throughout their circulation the full text of the ordinance proposed or sought to be reconsidered, or the reason for the official's recall, and the response of that official shall not be in excess of 250 words or one double-spaced, typewritten page, whichever is greater.

(c) *Affidavit of circulator.* Each person circulating a copy of the petition shall attach to it a sworn affidavit stating the number of signers, that all signers were advised they must be residents and electors of the city to sign and that each signer had an opportunity before signing to read the full text of the ordinance proposed or sought to be reconsidered, or the reason for the official's recall and that official's response to the reason.

(d) *Time for filing referendum petitions.* Referendum petitions may be filed any time after adoption by the council of the ordinance sought to be reconsidered or repealed.

Section 6.06 Procedure for filing certificate; amendment.

Within 20 days after the petition is filed, or within 5 days for a referendum, the city manager or other official designated by the council shall complete a certificate as to its sufficiency, specifying, if it is insufficient, the particulars wherein it is defective, and shall promptly send a copy of the certificate to the petitioners' committee by registered mail. Grounds for insufficiency shall consist solely of noncompliance with the provisions of Section 6.05. If the number of signatures is insufficient or the petition is deficient as to form or compliance with this section, the council shall notify the committee filing the petition and allow 30 days for filing of additional petition papers, at the end of which time the sufficiency or insufficiency of the petition shall be finally determined.

Section 6.07 Referendum petitions; suspension of effect of ordinance.

When a referendum petition is filed with the city manager or other official designated by the council, the ordinance sought to be reconsidered shall be suspended from taking effect. Such suspension shall terminate when:

(a) There is a final determination of insufficiency of the petition;

(b) The petitioners' committee withdraws the petition;

(c) The council repeals the ordinance; or

(d) A vote of the city on the ordinance has been certified.

Section 6.08 Action on petitions.

(a) *Action by council.* When an initiative, referendum, or recall petition has been determined sufficient, the council shall promptly consider the proposed initiative ordinance in the manner provided in Article III or reconsider the referred ordinance by voting its repeal, or the official named in the recall petition may resign. If the council fails to adopt a proposed initiative ordinance within 30 days, or the official named in the recall petition fails to resign within 15 days after the date the petition was fully determined sufficient, the council shall submit the proposed or referred ordinance or the question of recall of an elected official to the voters of the city.

(b) *Submission to voters.* The vote of the electors on a proposed or referred ordinance shall be held not less than 30 days nor more than 60 days from the date that the council rejected the proposed ordinance or refused to reconsider the referred ordinance. The vote of the electors on a recall petition shall be held not later than 60 days from the date that the subject official declined to resign. Passage of the times provided in (a) without action by the council, or by the official, shall be considered rejection, refusal or declination. If no regular city election is to be held within the period prescribed in this subsection, the council shall provide for a special election; otherwise, the vote shall be held at the same time as such regular election, except that the council may in its discretion provide for a special election at an earlier date within the prescribed period. Copies of the proposed or referred ordinance or the recall charges and response shall be made available at the polls.

(c) *Withdrawing of petitions.* An initiative, referendum, or recall petition may be withdrawn at any time prior to the 15th day preceding the day scheduled for a vote of the city by filing with the city manager or other official designated by the council a request for withdrawal signed by at least four members of the petitioners' committee. Upon the filing of such request the petition shall have no further force or effect and all proceedings thereon shall be terminated.

Section 6.09 Results of election.

(a) *Initiative.* If a majority of the qualified electors voting on a proposed initiative ordinance vote in its favor, it shall be considered adopted upon certification of the election results and shall be treated in all respects in

the same manner as ordinances of the same kind adopted by the council. If conflicting ordinances are approved at the same election, the one receiving the greatest number of affirmative votes shall prevail to the extent of such conflict.

(b) *Referendum.* If a majority of the qualified electors voting on a referred ordinance vote against it, it shall be considered repealed upon certification of the election results.

(c) *Recall.* If a majority of the qualified electors voting on a recall of an elected city official vote for the recall, that official shall be removed from office upon certification of the election results. Such removal shall constitute a disqualification to run for or hold the same or any other city office after the date of removal until 2 years from the next general election.

ARTICLE VII. GENERAL PROVISIONS

Section 7.01 [Amendment procedure].

This charter may be amended in two ways:

(a) *Initiation by ordinance.* The council may, by ordinance, propose amendments to any part or all of this charter, except Article II prescribing boundaries or to Article I, Section 1.01(e)(3), unless the legislative action called for in that section has been taken and the Destin Fire Control District has been abolished or transferred to the City of Destin. However, any terms and conditions specified by the Legislature with regard to the abolition or transfer of the fire district shall become part of this charter and shall be amended only by legislative act; provided further, that this section shall only be amended pursuant to legislative act. Upon passage of the initiating ordinance the council shall place the proposed amendment to a vote of the electors at the next general election held within the city or at a special election called for such purpose. Amendment of Article II resulting from annexation done in accordance with general law shall be by ordinance of the council and shall not be subject to a vote of the electors except as provided by general law.

(b) *Initiation by petition.* The electors of the city may propose amendments to this charter by petition signed by at least 10 percent of the total number of qualified voters registered to vote in the last regular city election. However, amendments to this charter proposed by petition shall be subject to the same restrictions as those amendments proposed by ordinance.

(1) *Form and content of petition.* If an amendment is initiated by petition, all papers of the petition shall be uniform in size and style and shall be assembled as one instrument for filing. Each signature shall be executed in ink or indelible pencil and shall be followed by the address of the person signing. Petitions shall contain or have attached thereto throughout their circulation the full text of the proposed charter amendment.

(2) *Affidavit of circulator.* Each paper of a petition shall have attached to it when filed an affidavit executed by the circulator thereof stating that the circulator personally circulated the paper, stating the number of signatures thereon, and stating that all the signatures were affixed in the circulator's presence, that the circulator believes them to be the genuine signatures of the persons whose names they purport to be and that each signer had an opportunity before signing to read the full text of the proposed charter amendment.

(3) *Certification of petition.* Upon certification of the sufficiency of the petition by the city manager, such certification shall include the validity of the names on the petition as qualified voters registered to vote in the last regular city election. The council shall place the proposed amendment to a vote of the electors at the next general election held not less than 60 days after certification or at a special election called for such purpose.

(4) [*Proposals to abolish city.*] If any amendment to this charter proposed under Section 7.01(a) or Section 7.01(b) would have the effect of abolishing the City of Destin, the referendum election on that question shall be placed on the ballot as would any other question. However, no actual abolition of the city would become effective except by act of the Legislature and the abolition of the city shall be subject to the terms and conditions specified by the Legislature.

Section 7.02 Standards of ethics.

All elected officials and employees of the city shall be subject to the standards of conduct for public officers and employees set by general law. In addition, the council may, by ordinance, establish a code of ethics for officials and employees of the city which may be supplemental to general law, but in no case may an ordinance diminish the provisions of general law.

Section 7.03 Penalties.

Violations of an ordinance shall be punishable in accordance with procedures contained in the ordinance or the uniform fines and penalties set by general law.

Section 7.04 Severability.

If any article, section, subsection, sentence, clause, or provision of this charter or the application thereof shall be held invalid for any reason, the remainder of the charter and of any ordinances or regulations made thereunder shall remain in full force and effect.

Section 7.05 Prohibition on vacation of waterfront rights-of-way.

The City of Destin is prohibited from abandoning, giving up, or vacating any public right-of-way or a portion thereof if the right-of-way shares any boundary with a water body. For purposes of this Section 7.05, public right-of-way includes only property that was intended or dedicated for use as a roadway or pedestrian walkway, whether or not such roadway or walkway was constructed. Public right-of-way shall not include any other property owned by the city, for purposes of this section.

(Ord. No. 20-21-CN, § 4, 7-20-20, Ref. 11-3-20)

Section 7.06 Building height limit.

No structure, no part of any structure, and no attachment to any structure shall be erected to a height greater than six stories (75 feet) above the crown of the abutting road. Structures, if demolished, shall be replaced only by structures which conform to the height limits of this section. No owners of structures destroyed or substantially damaged by explosion, fire, flood, wind, erosion, or other disaster shall be denied the right either to rebuild or to demolish and rebuild to the same height as the building that was destroyed or substantially damaged in the same location. For purposes of this section, "structure" does not include water towers, flagpoles, air traffic control towers, and radio and other communication towers.

The city or any member of the public may petition for a variance to erect a structure, part of a structure, or attachment to a structure above the six story (75 feet) building height maximum only after an initial approval of the variance petition by at least sixty percent (60%) of the city electorate voting in a general referendum election. If sixty percent (60%) or more of the city electorate voting in the general referendum election approves such variance at a general referendum election, the city council shall consider the requested variance. In considering a variance request initiated by the city or any member of the public, the city council must make findings of fact that the petitioner has met the legal standards for a variance as set forth in the City of Destin's Land Development

Code, and the variance must be approved by a majority vote of the city council after due notice and public hearing. Notice and hearing requirements for such variance shall be in accordance with the provisions for variance set forth in the City of Destin's Land Development Code and the general requirements of law.

(Ord. No. 20-22-CN, § 4, 7-20-20, Ref. 11-3-20)

Section 7.07. [Conveyance, sale, lease or other transfer of interest of city parks].

The City of Destin is prohibited from conveying, selling, leasing, or otherwise transferring any interest in any City Park unless a supermarjority of the City Council votes in favor of such conveyance, sale, lease or transfer. The term "City Park" as used in this section means a park, reservation, playground, beach, boat ramp, recreation center or any other area in the City owned or used by the City and devoted to active or passive recreation.

(Ord. No. 20-31-CN, § 4, 12-21-20, Ref. 3-9-21)

ARTICLE VIII. TRANSITION SCHEDULE

(Deleted by Referendum No. 89-19)

ITEM # 2025-1208

CITY OF DESTIN

AGENDA ITEM

COUNCIL MEETING DATE: October 20, 2025
TYPE OF AGENDA ITEM: Action Item
AGENDA OUTLINE NUMBER: 6.I.

TO: City Council

THRU:

FROM:

DATE:

SUBJECT: 1) Pursuant to Section 286.011(8), Florida Statutes, the City Attorney desires the advice of counsel at an executive session on December 1, 2025, at 5:30 PM in the following litigation: F129 v. City of Destin (2023-CA-003643), in the Circuit Court of Okaloosa County, Florida. Present at the litigation will be the City Attorney Kimberly Kopp, Litigation Counsel William Warner, City Manager Larry Jones, the Mayor and all members of the City Council.

I. BACKGROUND:

II. DISCUSSION:

A. Link to Strategic Goals / Objectives:
B. Effect on Budget (EOB):
C. Level of Service (LOS):
D. Legislative Sponsor:
E. Business Impact Statement:

III. CONCLUSION:

IV. RECOMMENDED MOTION:

Attachments:

None