AGENDA
HARBOR AND WATERWAYS BOARD MEETING
THURSDAY, JULY 23, 2026
5:30 PM
DESTIN CITY HALL ANNEX CHAMBERS

1. **CALL TO ORDER/ROLL CALL/PLEDGE OF ALLEGIANCE**
2. **AGENDA APPROVAL**
3. **APPROVAL OF MINUTES**
4. **CURRENT BUSINESS**
   - **A) Joe's Bayou Recreational Area Improvements**
5. **PUBLIC COMMENTS**
6. **NEXT MEETING DATE: August 27, 2026**

Any person requiring a special accommodation at this hearing because of a disability or physical impairment should contact the City Clerk at (850) 837-4242 at least 48 hours prior to the hearing. If a person decides to appeal any decision made with respect to any matter considered at such meeting, such person will need a record of the proceeding and for such purpose may need to ensure that a verbatim record of the proceeding is made, which record includes the testimony and evidence upon which the appeal is to be based. (Sec. 286.0105, Florida Statutes)

ITEM # 2026-1000

CITY OF DESTIN – COMMUNITY DEVELOPMENT

AGENDA ITEM

MEETING DATE: July 23, 2026
BOARD/COMMITTEE: Harbor & Waterways Board
TYPE OF AGENDA ITEM: Action Item
OUTLINE NUMBER: 4.A.

TO: Harbor & Waterways Board

THRU: Kimberly Kopp, City Attorney
Tina Deater, Community Development Director
Daniel Butler, Principal Planner

FROM: Jesse Hernandez, Planner

DATE: July 16, 2026

SUBJECT: Joe's Bayou Recreational Area Improvements

I. BACKGROUND:

Duncan Greer with Taylor Engineering, Inc., on behalf of the Florida Department of Environmental Protection (FDEP) and the City of Destin, is requesting the Harbor and Waterways Board review the proposed marine construction for the Joe's Bayou Recreational Area Improvements redevelopment project. The proposed marine construction will consist of extending and reconfiguring the existing timber fishing pier, the installation of breakwaters, revetment, seawalls, a fixed mooring pier, ADA paddle craft launch, a fixed access pier, a floating ADA access pier, and the expansion of the boat launch/ramp area.

This marine construction is in addition to the upland improvements that are not subject to the review of the Harbor and Waterways Board, such as recreational area improvements which include the reconstruction of the existing parking facility, public restrooms, retrofitting the existing stormwater management facility, installing a stormwater conveyance system throughout the site, and constructing pedestrian pathways to improve public access and circulation.

The applicant seeks a recommendation for approval from the Harbor and Waterways Board for a non-residential marine construction project proposing the following dimensional parameters:

Fishing Pier

Total Square Feet: ± 2,704 SF

Total Number of Piers or Docks: 1

Total Length: 184 LF

Total Slip Density: 0

Located in the Destin Harbor: No

Fixed Mooring Pier

Total Square Feet: ± 1529 SF

Total Number of Piers or Docks: 1

Total Length: 32 LF

Total Slip Density: 0

Located in the Destin Harbor: No

ADA Paddle-Craft Launch

Total Square Feet: ± 416 SF

Total Number of Piers or Docks: 1

Total Length: 56 LF

Total Slip Density: 0

Located in the Destin Harbor: No

Boat Ramp Fixed Access Pier 1 (Northern Side)

Total Square Feet: ± 2105 SF

Total Number of Piers or Docks: 1

Total Length: 192 LF

Total Slip Density: 0

Located in the Destin Harbor: No

Boat Ramp Fixed Access Pier 2 (Center)

Total Square Feet: ± 896 SF

Total Number of Piers or Docks: 1

Total Length: 112 LF

Total Slip Density: 0

Located in the Destin Harbor: No

Boat Ramp Fixed Access Pier 3 w/ Floating ADA Access Pier (Southern Side)

Total Square Feet: ± 1107 SF

Total Number of Piers or Docks: 1

Total Length: 118 LF

Total Slip Density: 0

Located in the Destin Harbor: No

II. DISCUSSION:

The applicant requests Harbor and Waterways Board review for nonresidential marine construction located at 800 Beach Drive.

The Harbor and Waterways Board is being asked to review the proposed Marine project per Land Development Code ***Section 11.05.01 - General regulations; prohibitions*** and ***Section 11.05.02 – Permitting procedures.*** Below are Staff's findings with respect to ***Section 11.05.01*** and ***Section 11.05.02;*** items not applicable to this project are marked "Not Applicable."

11.05.01. General regulations; prohibitions*. This article establishes and regulates procedures and standards by which the City controls and regulates development, construction and activities within and contiguous to the Harbor and waterways of Destin. The following regulations and prohibitions shall apply to the Harbor and waterways of Destin:*

A. No person shall construct or add to an existing dock, seawall, bulkhead, mooring or piling, modify an existing submerged land lease, or conditions thereto, or conduct dredge or fill operations in, or contiguous to, the Harbor or waterways of Destin without first obtaining the proper authorization from the appropriate federal, state and City

agencies.

Staff response: *The applicant has submitted for authorization from all appropriate agencies.*

B. The addition or modification of a boat lift or pilings within an existing legal and conforming boat slip shall not require the review of the Harbor and Waterways Board or the City Council. Rather, a copy of the U.S. Army Corps of Engineers permit, DEP permit, and a homeowner's association approval (if applicable) shall accompany a completed application for a building permit, provided no additional slips are created.

Staff response: *Not applicable.*

C. No fish carcasses and debris shall be discharged into the Harbor or waterways of Destin.

Staff response: *This regulation applies to all users of the harbor and waterways of Destin and shall be adhered to.*

D. No person who maintains or operates a dock shall allow or permit the disposal of fish carcasses, litter, waste petroleum products or other pollutants into the Harbor or waterways of Destin. Trash disposal receptacles shall be anchored to each dock to ensure compliance with the provisions of this article.

Staff response: *This regulation applies to all users of the harbor and waterways of Destin and shall be adhered to.*

E. No fuel or oil shall be willfully or knowingly discharged in the Harbor or waterways of Destin. No dock which sells fuel or oil shall be constructed, operated or maintained in the Harbor or waterways of Destin unless an oil abatement plan, in accordance with Coast Guard guidelines, is available at each dock. The Destin Harbor and Waterways Board shall review and recommend approval or disapproval of each oil abatement plan to the City Council, which shall have approval authority. Each existing dock which sells fuel or oil shall develop and have approved an oil abatement plan acceptable to the City. All new docks which sell fuel or oil shall develop and have an approved oil abatement plan, which is acceptable to the City, prior to receiving a building permit from the City.

Staff response: *This regulation applies to all users of the harbor and waterways of Destin and shall be adhered to. Additionally, these are proposed marine improvements within a city park; therefore, no fuel/oil shall be sold here.*

F. No new or existing dock shall be constructed or modified such that the length of any pier as completed is greater than 20 percent of the width of the Harbor or waterway at the place where the pier is located, or out 200 feet, whichever is less, except in Choctawhatchee Bay.

Staff response: *The width of the waterway along this property is approximately 1625'. Therefore, the proposed marine improvements cannot exceed 200' in length. All docks, as proposed, comply with all applicable dimensional standards and do not exceed the maximum permitted length as defined by the City of Destin Land Development Code.*

G. No piling(s) shall be added to the waterward end of any pier which piling(s) would make the total length of the dock more than 200 feet, or 20 percent of the waterway, whichever is less, except in Choctawhatchee Bay.

Staff response: *No pilings are proposed to the waterward end of any pier or dock. The docks, as proposed, comply with all applicable dimensional standards and do not exceed the maximum permitted length as defined by the City of Destin Land Development Code.*

H. No vessel shall be moored or docked on the waterward end of any pier of the maximum legal length, as determined pursuant to subsection F above, for more than 72 hours.

Staff response: *This regulation applies to all users of the harbor and waterways of Destin and shall be adhered to.*

I. No dock shall be constructed which permits the commercial docking of boats with on-board toilets unless the dock is equipped with a sewage pump-out.

Staff response: *Not applicable.*

J. No dock shall be constructed which permits the docking of a live-aboard unless such vessel has an operable holding tank.

Staff response: *This regulation applies to all users of the harbor and waterways of Destin and shall be adhered to.*

K. No boat shall be moored in the Harbor or waterways of Destin such that it constitutes a hazard to navigation.

Staff response: *This regulation applies to all users of the harbor and waterways of Destin and shall be adhered to.*

L. No dock shall be constructed such that it constitutes a hazard to navigation.

Staff response: *This regulation applies to all users of the harbor and waterways of Destin and shall be adhered to.*

M. Excepting docks connected to uplands zoned SHMU, or those located on Choctawhatchee Bay, no dock shall be longer than the width, at the mean high-water line, of the lot to which the dock is attached.

Staff response: *The docks, as proposed, comply with all applicable dimensional standards and do not exceed the maximum permitted length as defined by the City of Destin Land Development Code.*

1. For those docks connected to uplands zoned SHMU, or those located on Choctawhatchee Bay, a dock may be constructed to a length of 1.5 times the width of the property at the mean high-water line, provided the length of the dock does not exceed the maximum length established by paragraphs F and G above.

Staff response: *Not applicable.*

2. For the purpose of this subsection, lots may be combined with neighboring lots. However, no dock may exceed the limitations specified in subsection F above.

   Staff response: *Not applicable.*

N. No dock shall be constructed or modified such that slip density exceeds one slip per eight linear feet of waterfront footage except that, on canals, no lot may have more than one slip per 45 linear feet of waterfront. However, all lots riparian to a canal shall be entitled to at least two slips on the canal.

Staff response: *Proposed improvements adhere to this regulation.*

O. No boat or vessel, entering into, exiting, or operating within Destin Harbor shall operate at such speed that would create a wake that endangers other boats or vessels, swimmers or other people within Destin Harbor, or would contribute to any adjacent land erosion.

Staff response: *This regulation applies to all users of the harbor and waterways of Destin and shall be adhered to.*

P. No heated or cooled water may be emitted into the Harbor, waterways, or the Harbor canals other than from a boat.

Staff response: *This regulation applies to all users of the harbor and waterways of Destin and shall be adhered to.*

Q. No pier shall extend more than six feet into a canal right-of-way.

Staff response: *Not applicable.*

R. No discharge of water shall contain phosphorous or any other substance likely to cause a violation of the water quality standards specified in Chapter 17-302, Florida Administrative Code.

Staff response: *This regulation applies to all users of the harbor and waterways of Destin and shall be adhered to.*

S. No dock or vessel shall be placed within the 25-foot setback of a property line without providing prior written notification to the adjoining landowners and requesting their response. Any objections received from the adjoining property owners will be considered by the Harbor and Waterways Board in their recommendations to the City Council.

Staff response: *Staff sent the provided Adjacent Property Notification to the neighboring properties on May 27, 2026. As proposed, the riparian rights of others are not interfered with.*

T. No dock shall unreasonably interfere with the riparian rights of others.

Staff response: *Staff sent the provided Adjacent Property Notification to the neighboring properties on May 27, 2026. As proposed, the riparian rights of others are not interfered with.*

U. No dock of 100 feet or longer shall be constructed unless a white navigation/security night-light is installed at the furthest point seaward on said dock and such light is to be illuminated continuously from dusk to dawn every night of the year. All existing docks 100 feet or longer shall install and operate a navigation/security light pursuant to this subsection. Each light shall be installed within 90 days after adoption of this Code.

Staff response: *Each dock is designed and proposed to have a solar navigation light at the furthest point.*

V. No commercially operated boat docking facilities shall be permitted or operated unless equipped with firefighting facilities as specified by the City.

Staff response: *Not applicable.*

W. No construction shall be allowed, which violates any provision of the Standard Building Code, as adopted by the City.

Staff response: *Applicant must obtain an approved Marine Construction Permit prior to any construction.*

X. No electrical or water service upon any dock shall be installed unless a permit is obtained from the Planning Department and Building Department for that service.

Staff response: *Applicant must obtain an approved Marine Construction Permit prior to any construction.*

Y. No person, while operating a boat within the or waterways of Destin shall allow or permit the disposal of fish carcasses, litter, waste, petroleum products or other pollutants into the Harbor or waterways of Destin from such boats.

Staff response: *This regulation applies to all users of the harbor and waterways of Destin and shall be adhered to.*

Z. No lot, or multi-contiguous lots, with less than 50 feet of waterfront footage shall be allowed individual docks, unless they are parallel to the shoreline. However, docks may be allowed under the provisions of subsection ***11.05.01.M.2***.

Staff response: *Not applicable.*

Pursuant to ***Section 11.05.03, Land Development Code (LDC)***, all construction shall be inspected by the City Building Inspector for compliance with applicable building codes. The applicant shall be responsible for the condition and repair of permitted docks and failure to maintain said docks in a safe condition shall constitute grounds for revocation of the permit.

This project also includes the addition of shoreline revetment along the majority of the Joe's Bayou Recreational Area MHWL. A sheet pile sea wall is also proposed along the shoreline near the fixed mooring pier.

Finally, four (4) breakwaters are proposed as part of this project along with two reef areas. Breakwaters 1-3, as depicted in Exhibit A on Sheet CS-24, measure approximately 90' x 26'. Breakwater 4 measures approximately 62' x 16'. The applicant is proposing two separate reef habitats, totaling approximately 300' square feet of habitat.

All waterward improvements have been submitted and approved by the Florida Department of Environmental Protection. Improvements have been submitted to the United States Army Corps of Engineers (USACE) and is currently awaiting final approval. Any recommendations for approval by the Harbor and Waterways Board will require final approval from USACE prior issuance of building permits.

PUBLIC COMMENT:
Staff has received no comments from the public to date.

A. Link to Strategic Goals / Objectives:
II. Enhanced quality of life and safety for families.
IV. Effective, efficient and aesthetically pleasing infrastructure.

B. Effect on Budget (EOB): N/A

C. Level of Service (LOS): N/A

D. Legislative Sponsor:

E. Business Impact Statement:

III. CONCLUSION:

The applicant requests the Harbor and Waterways Board recommendation for approval for a nonresidential marine construction project located at 800 Beach Drive in the Joe's Bayou Recreational Area.

City Staff reviewed the application and determined that the plans comply with ***LDC Section 11.05.00, Marina Siting***, and the Coastal Management Element of the City's Comprehensive Plan ***(Coastal Management Element Policy 6-1.1.6)***.

IV. RECOMMENDED MOTION:

I move that the Harbor and Waterways Board recommend that City Council approve the proposed nonresidential marine redevelopment project, located at 800 Beach Drive, in the Joe's Bayou Recreational Area, as proposed in the 'Water Front Structures Overview' plan on Sheet CS-1 of Exhibit A. This redevelopment project will include a timber fishing pier, fixed mooring pier, ADA paddle-craft launch, boat launch along with 3 access piers and an ADA floating access pier, upgraded boat ramp, revetments and sheet pile walls, four breakwaters, and two separate reef habitats. The following conditions will apply:

1. All applicable Federal or State approvals shall be submitted with the Marine Construction Permit application; and

2. All regulations of the City's Marina Siting *LDC Section 11.05.00* shall be followed at all times.

ALTERNATIVE MOTION:

I move that the Harbor and Waterways Board recommend that City Council approve with conditions/approve with modifications/deny the nonresidential marine development project 800 Beach Drive.

Attachments:

1. Joes Bayou Recreational Area Improvements Plan Set
2. Joes Bayou Recreation - FDEP Permit# 0142030-003-EI46
3. USACE Permit Submission Notification (SAJ-2021-02708(SP-SMW))
4. Joes Bayou Waterfront Overview
5. Joes Bayou Waterfront Structures Overview
6. Fishing Pier MHWL Depiction
7. Adjacent Property Notification Letter
8. Property Posting
9. Joes Bayou Property Posting Sign Locations
10. Property Posting Affidavit

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P-1	Plumbing Floor Plan
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JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT

CITY OF DESTIN, FLORIDA

PREPARED FOR:

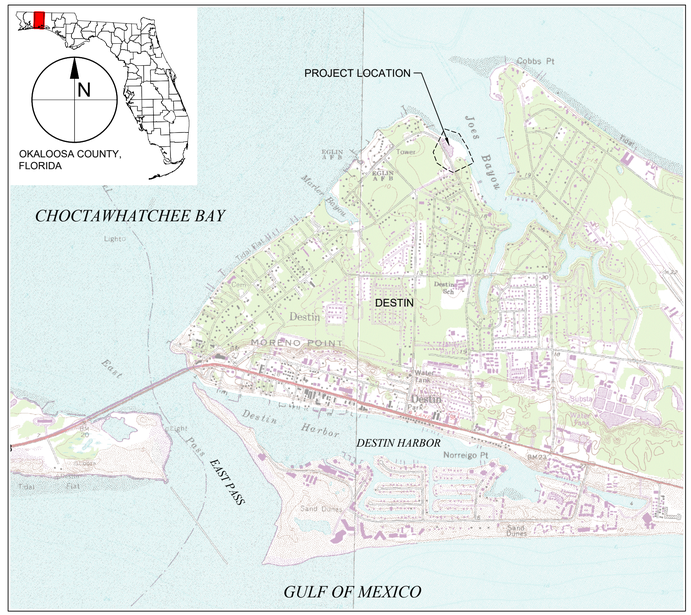
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DEEPWATER HORIZON PROGRAM
DIVISION OF WATER RESTORATION ASSISTANCE
FDEP CONTRACT NO. DH015

CONTRACT MANAGER
PEARCE L. BARRETT III, P.E., F.C.C.M.
DEEPWATER HORIZON PROGRAM DIVISION OF WATER RESTORATION ASSISTANCE
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
3900 COMMONWEALTH BOULEVARD, MS 240
TALLAHASSEE, FLORIDA 32399
850-245-2106
PEARCE.BARRETT@DEP.STATE.FL.US

ENGINEER CONTACT
DUNCAN GREER, PE
TAYLOR ENGINEERING, INC.
4300 LEGENDARY DRIVE, SUITE C246
DESTIN, FLORIDA 32541
850-460-7040
DGREER@TAYLORENGINEERING.COM

PROPERTY OWNER CONTACT
JEFF COZADD
PROJECTS/GRANTS/CONTRACTS MANAGER
CITY OF DESTIN |OFFICE OF THE CITY MANAGER
4200 INDIAN BAYOU TRAIL
DESTIN, FLORIDA 32541
850-279-4228
JCOZADD@CITYOFDESTIN.COM



PROJECT LOCATION
CITY OF DESTIN, OKALOOSA COUNTY, FLORIDA
USGS 7.5' QUADRANGLE MAP: DESTIN, FLORIDA
SECTION: 25
TOWNSHIP: 2S
RANGE: 22W
LATITUDE: 30.390° - 30.395°
LONGITUDE: 86.516° - 86.508°
NORTHING: 511,082 - 512,765
EASTING: 1,333,069 - 1,335,417

VICINITY MAP
1"= 2000' (22x34)
1"= 4000' (11x17)

DAG ARCHITECTS

halff

H.M. YONGE & ASSOCIATES, INC.
CONSULTING ENGINEERS // EST 1988
102 EAST GARDEN STREET, PENSACOLA, FLORIDA 32502

CITY OF DESTIN FLORIDA — World's Luckiest Fishing Village

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THESE CONSTRUCTION DRAWINGS ARE PROVIDED FOR BIDDING PURPOSES ONLY. THE SELECTED CONTRACTOR WILL BE PROVIDED SIGNED/SEALED CONSTRUCTION DRAWINGS IN DIGITAL AND HARDCOPY FORMATS.

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE
SUITE C246
DESTIN, FLORIDA 32541
(850) 460-7040

REGISTRY # 4815

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

PROJECT TITLE
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

PROJECT NO	C2021-045
DATE	MAY 2026

SEAL

ENG

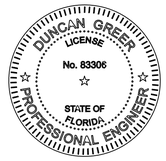
G-1

PETER JANSEN, 5/14/2026 5:11:19 PM, X:\sys\Projects\c2021-045_JoeBayou\Construction\c2021-045-C-Title.dwg

ORGANIZATION: TAYLOR ENGINEERING, INC., 4300 LEGENDARY DR, DESTIN, FL 32541
SIGNING ENGINEER: DUNCAN GREER, PE

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY DUNCAN GREER ON THE DATE ADJACENT TO THE SEAL.
SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

DUNCAN GREER, PE IS RESPONSIBLE FOR THE FOLLOWING SHEETS:



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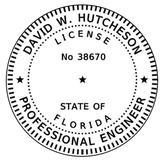
S-27	NAVIGATION AIDS AND SIGNAGE DETAILS

ORGANIZATION: HALFF ASSOCIATES, INC, 2507 CALLAWAY RD, STE 100, TALLAHASSEE, FL 32303
SIGNING ENGINEER: DAVID HUTCHESON, PE

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY DAVID HUTCHESON ON THE DATE ADJACENT TO THE SEAL.
SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

DAVID HUTCHESON, PE IS RESPONSIBLE FOR THE FOLLOWING SHEETS:



C1.1	Demolition Plan Southern
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C9.1	Stormwater Pollution Prevention Plan Southern
C9.2	Stormwater Pollution Prevention Plan Western
C9.3	Stormwater Pollution Prevention Plan Northern
C10	Stormwater Pollution Prevention Notes and Details
C11.1	Construction Details
C11.2	Construction Details
C11.3	Construction Details
C12	Utility Plan
C13.1	Destin Water Users, Inc. Details
C13.2	Destin Water Users, Inc. Details
C13.3	Destin Water Users, Inc. Details
C13.4	Destin Water Users, Inc. Details
C13.5	Destin Water Users, Inc. Details
C13.6	Destin Water Users, Inc. Details
C13.7	Destin Water Users, Inc. Details

SIGNING LANDSCAPE ARCHITECT: JOSEPH C. PETRICH, PLA

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOSEPH C. PETRICH ON THE DATE ADJACENT TO THE SEAL.
SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

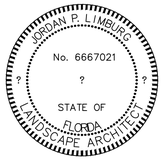
JOSEPH C. PETRICH, PLA IS RESPONSIBLE FOR THE FOLLOWING SHEETS:

L1	Landscape Plan Southern
L2	Landscape Plan Western
L3	Landscape Plan Northern

SIGNING LANDSCAPE ARCHITECT: JORDAN P. LIMBURG, PLA

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JORDAN P. LIMBURG ON THE DATE ADJACENT TO THE SEAL.
SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

JORDAN P. LIMBURG, PLA IS RESPONSIBLE FOR THE FOLLOWING SHEETS:



L4	Irrigation Plan Southern
L5	Irrigation Plan Western
L6	Irrigation Plan Northern
L7	Irrigation Schedules, Notes, & Specifications
L8	Irrigation Details
L9	Drip Irrigation Details

ORGANIZATION: DAG ARCHITECTS, 850 S. GADSDEN ST, STE 140, TALLAHASSEE, FL 32301
SIGNING ARCHITECT: PATRICK L. BALLASCH, AIA

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY PATRICK L. BALLASCH ON THE DATE ADJACENT TO THE SEAL.
SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

PATRICK L. BALLASCH, AIA IS RESPONSIBLE FOR THE FOLLOWING SHEETS:

A000	WALL TYPES
A001	ABBREVIATIONS & SYMBOLS
A100	ARCHITECTURAL SITE PLAN
A101	RESTROOM GRADE FLOOR PLAN
A102	RESTROOM DIMENSION PLAN
A103	RESTROOM ANNOTATION & FINISH PLAN
A104	RESTROOM REFLECTED CEILING PLAN
A105	RESTROOM ROOF PLAN
A200	EAST & WEST RESTROOM ELEVATIONS
A201	NORTH & SOUTH RESTROOM ELEVATIONS
A202	RESTROOM RAMP PLANS, SECTIONS, & ELEVATIONS
A202.1	RESTROOM RAMP ENLARGED PLANS
A202.2	RR STAIR & RAILING PLANS, SECTIONS, & ELEVATIONS
A203	LARGE PAVILION PLANS & ELEVATIONS
A204	SMALL PAVILION PLANS & ELEVATIONS
A205	STAFF PAVILION PLANS & ELEVATIONS
A206	PERGOLA 1 PLANS & ELEVATIONS
A207	PERGOLA 2 PLANS, ELEVATIONS, & TYPICAL DETAILS
A208	PARK SIGN PLANS, ELEVATIONS, & SECTIONS
A301	BUILDING SECTIONS
A310	WALL SECTIONS
A311	TYPICAL PAVILION DETAILS
A312	TYPICAL DETAILS
A313	TYPICAL DETAILS
A314	TYPICAL DETAILS
A401	INTERIOR ELEVATIONS
LS001	CODE DATA

ORGANIZATION: PENNONI, 850 S. GADSDEN ST, STE 100, TALLAHASSEE, FL 32301
SIGNING ENGINEER: JUSTIN W. DUNCAN, PE

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JUSTIN W. DUNCAN ON THE DATE ADJACENT TO THE SEAL.
SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

JUSTIN W. DUNCAN, PE IS RESPONSIBLE FOR THE FOLLOWING SHEETS:

S001	STRUCTURAL SPECIFICATIONS
S002	STRUCTURAL SPECIFICATIONS
S003	WIND TABLES AND SCHEDULES
S101	RESTROOM RAMP PLAN
S102.1	RESTROOM FOUNDATION PLAN
S102.2	RESTROOM FLOOR PLAN
S102.3	RESTROOM ROOF PLAN
S103	LARGE PAVILION PLANS
S104	SMALL PAVILION PLANS
S105	PARKING LOT PAVILION PLANS
S106	PERGOLA 1 PLAN
S107	PERGOLA 2 PLANS
S201	FOUNDATION AND MASONRY DETAILS
S202	FOUNDATION AND MASONRY DETAILS
S301	ROOF AND FRAMING DETAILS

ORGANIZATION: H.M. YONGE & ASSOCIATES, INC., 51 E. GREGORY ST, PENSACOLA, FL 32502
SIGNING ENGINEER: ARUN T. VARGHESE, PE

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ARUN T. VARGHESE ON THE DATE ADJACENT TO THE SEAL.
SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

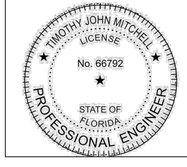
ARUN T. VARGHESE, PE IS RESPONSIBLE FOR THE FOLLOWING SHEETS:

E-0	Electrical Legend, Schedules, and Riser
E-1	Electrical Site Plan
E-2	Electrical Floor Plan

SIGNING ENGINEER: TIMOTHY J. MITCHELL, PE

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY TIMOTHY J. MITCHELL ON THE DATE ADJACENT TO THE SEAL.
SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

TIMOTHY J. MITCHELL, PE IS RESPONSIBLE FOR THE FOLLOWING SHEETS:



M-1	HVAC Floor Plan
M-2	HVAC Schedules, Legend, and Details
P-1	Plumbing Floor Plan
P-2	Plumbing Schedules, Legend, and Details

TAYLOR ENGINEERING, INC.
4300 LEGENDARY DRIVE
SUITE C246
DESTIN, FLORIDA 32541
(850) 460-7040
REGISTRY # 4815

SEAL

ENG

PROJECT TITLE

JOES BAYOU RECREATION AREA
IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

Call 811 before you dig.

PROJECT NO	C2021-045
DATE	MAY 2026
DESIGNED	DG
DRAWN	AF
CHECKED	CHECKBY
REVIEWED	REVBY

SHEET TITLE

SIGNATURES

G-2

PETER JANSEN, 5/14/2026 5:11:23 PM, X:\sys\Projects\c2021-045_JoesBayou\Construction\c2021-045-C-Signatures.dwg

INDEMNIFICATION

THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND ENGINEER AND THEIR RESPECTIVE REPRESENTATIVES, AGENTS, AND EMPLOYEES, IN BOTH INDIVIDUAL AND OFFICIAL CAPACITIES, AGAINST ALL LAWSUITS, CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEY FEES, CAUSED BY, RESULTING FROM, AND/OR INCIDENTAL TO THE PERFORMANCE OF THE WORK UNDER THIS CONTRACT TO THE FULL EXTENT AS ALLOWED BY THE LAWS OF THE STATE OF FLORIDA AND NOT BEYOND ANY EXTENT WHICH WOULD RENDER THESE PROVISIONS VOID OR UNENFORCEABLE. IN THE EVENT OF ANY SUCH INJURY, DEATH, LOSS, OR DAMAGE, OR CLAIMS THEREOF, THE CONTRACTOR SHALL GIVE PROMPT NOTICE TO THE OWNER AND THE ENGINEER.

DEFINITIONS

1. OWNER: FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP)
2. ENGINEER: OWNER'S DESIGNATED REPRESENTATIVE FOR CONSTRUCTION OBSERVATION AND ADMINISTRATION.
3. ENGINEER OF RECORD (EOR): ENGINEER WHOSE NAME AND SEAL IS AFFIXED TO THE DRAWINGS AND SPECIFICATIONS OF APPLICABLE WORK.SEE SHEET G-2 FOR SHEET LIST AND APPLICABLE EOR SIGNTURES. RECORD DRAWINGS: A COPY OF THE ORIGINAL SIGNED AND SEALED DRAWINGS KEPT ONSITE AT ALL TIMES WHERE THE CONTRACTOR SHALL KEEP A RECORD OF ALL DEVIATIONS FROM THE ORIGINAL DRAWINGS MARKED IN RED PENCIL OR PEN.
4. AS-BUILT SURVEY DRAWINGS: POST-CONSTRUCTION SURVEY DRAWINGS SIGNED AND SEALED BY A REGISTERED PROFESSIONAL SURVEYOR, MARKED “AS-BUILT” DRAWINGS, AND REVIEWED BY THE ENGINEER. THE SURVEY SHALL INCLUDE OR THE ENGINEER SHALL MARK ON THESE AS-BUILT SURVEY DRAWINGS ALL SIGNIFICANT DEVIATIONS IN THE WORK AS RECORDED BY THE CONTRACTOR ON THE RECORD DRAWINGS OR AS KNOWN TO THE ENGINEER. IF THE DEVIATIONS ARE TOO EXTENSIVE TO TRANSFER, THE ENGINEER MAY STAPLE TOGETHER THE AS-BUILT SURVEY DRAWINGS WITH THE RECORD DRAWINGS AND MARK THE FIRST SHEET OF EACH AS "AS-BUILT".
5. U.N.O.: UNLESS NOTED OTHERWISE

PERMITS AND PERMIT CONDITIONS

1. PERMITS:
   A. FDEP PERMIT NO. 0142030-003-EI/36
   B. USACE PERMIT NO. SAJ-2021-02708 (ISSUANCE PENDING)
   C. CITY OF DESTIN DEVELOPMENT ORDER NO. 99-24 (MODIFICATION PENDING)
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES AND THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NOT SUPPLIED BY THE OWNER AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS. COSTS OF OBTAINING PERMITS NOT SUPPLIED BY THE OWNER SHALL BE BORNE BY THE CONTRACTOR. THIS SHALL INCLUDE BUT NOT BE LIMITED TO: NPDES PERMIT (OR NOI), CLEARING OR LAND DISTURBANCE PERMITS, TREE IMPACT PERMITS, CITY BUILDING PERMITS, DRIVEWAY OR ENTRANCE PERMITS, TEMPORARY UTILITIES PERMIT, ETC.
4. UNLESS CLEARLY SPECIFIED OTHERWISE BY THE OWNER IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING ALL NOTICES OF COMMENCEMENTS AND NOTICES OF COMPLETION TO ALL PERMITTING AGENCIES INCLUDING PERMITS SUPPLIED BY THE OWNER.
5. ALL PROPOSED CONSTRUCTION ACTIVITIES SHALL BE IN STRICT COMPLIANCE WITH ALL SPECIAL PERMIT CONDITIONS AS OUTLINED IN THE PERMITS. IF PERMIT CONDITIONS DIFFER FROM THESE SPECIFICATIONS, PERMIT CONDITIONS CONTROL.
6. TURBIDITY AND EROSION CONTROLS SHALL BE PLACED AROUND THE WORK AREA AS REQUIRED BY PERMITS. TURBIDITY CURTAINS AND/OR SILT FENCES SHALL BE LOCATED AND REPOSITIONED BY THE CONTRACTOR USING BEST MANAGEMENT PRACTICES TO ASSURE WATER QUALITY STANDARDS ARE MAINTAINED THROUGHOUT CONSTRUCTION. CONTRACTOR MUST PERFORM PROPER INSTALLATION AND MONITORING.
7. WORK VESSELS (E.G., BARGES, TUGS, ETC.) SHALL MAINTAIN AT LEAST 1 FT OF CLEAR DISTANCE BETWEEN THE LOWEST DRAFT OF THE VESSEL AND THE BOTTOM. NO PROP SCOUR IS PERMITTED. NO SPUDDING OVER SEAGRASS IS PERMITTED.

GENERAL NOTES

1. ALL WORK PERFORMED SHALL BE GOVERNED BY THE FOLLOWING STANDARDS:
   A. FLORIDA BUILDING CODE; 2023
   B. FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION; 2021
2. CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION
3. THE CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE DURING BIDDING AND PRIOR TO INITIATING ANY CONSTRUCTION. PRIOR TO INITIATING WORK, CONTRACTOR SHALL PHOTOGRAPHICALLY DOCUMENT THE CONDITIONS IN AND AROUND THE JOE’S BAYOU AREA IMPROVEMENTS WITH COLOR DIGITAL PHOTOGRAPHS. PHOTOS SHALL BE PROVIDED TO THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE AT THE PRE-CONSTRUCTION MEETING. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING CONDITIONS THAT ARE TO REMAIN, WITH SAID PHOTOS TO SUPPORT CONDITIONS AT THE SITE.
4. THE CONTRACTOR SHALL, PRIOR TO ANY CONSTRUCTION ACTIVITY, HOLD A PRE-CONSTRUCTION MEETING WITH ALL PERMITTING AGENCIES INVOLVED, INCLUDING CITY OF DESTIN, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) NORTHWEST DISTRICT.
5. THE CONTRACTOR SHALL LOCATE AND FIELD VERIFY ALL STRUCTURES AND EXISTING UTILITIES (ABOVE-GROUND AND BELOW-GROUND), WHETHER SHOWN OR NOT ON THE DRAWINGS, BEFORE BEGINNING WORK. CONTRACTOR SHALL ALSO FIELD VERIFY ALL DIMENSIONS AND QUANTITIES.
6. ONCE MOBILIZED, CONTRACTOR MUST WORK ON THE PROJECT CONTINUOUSLY WITHOUT ABSENCES FROM THE SITE UNLESS APPROVED BY THE OWNER.
7. THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING THEMSELVES, THEIR PERSONNEL AND SUBCONTRACTORS WITH THE CONSTRUCTION DRAWINGS, SPECIFICATIONS, REGULATORY AUTHORIZATIONS, AND ALL OTHER CONTRACT DOCUMENTS.
8. ALL WORK SHALL CONFORM TO THE CONSTRUCTING DRAWINGS, SPECIFICATIONS, REGULATORY AUTHORIZATIONS, AND ANY OTHER CONTRACT DOCUMENTS. THE CONTRACTOR SHALL POST AT THE PROJECT SITE ALL PERMIT NOTICES AND COMPLY WITH ALL TERMS OF THE PERMITS AS PERTAINING TO THE WORK.
9. CONTRACTOR SHALL CHECK PLANS FOR CONFLICTS AND DISCREPANCIES AND NOTIFY OWNER OR OWNER'S DESIGNATED REPRESENTATIVE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE OF ANY CONFLICTS BEFORE PERFORMING WORK IN THE AFFECTED AREA.
10. THE CONTRACTOR SHALL CONDUCT CONSTRUCTION AND COORDINATE WITH THE OWNER AND ENGINEER IN SUCH A WAY AS TO ENSURE PUBLIC AND PRIVATE SAFETY IN AND AROUND THE CONSTRUCTION SITE.
11. SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR.
12. ALL SUBSURFACE CONSTRUCTION SHALL COMPLY WITH THE "TRENCH SAFETY ACT", CHAPTER 553.60 - 553.64, FLORIDA STATUTES. CONTRACTOR SHALL INSURE THAT THE METHOD OF TRENCH PROTECTION AND CONSTRUCTION IS IN COMPLIANCE WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.
13. IT IS THE RESPONSIBILITY OF CONTRACTOR TO ESTABLISH THE FOLLOWING IN THE FIELD: RIGHT OF WAY LINES, BENCHMARKS, CENTER LINES AND STATIONING AS MAY BE REQUIRED TO CONSTRUCT THE PROJECT.
14. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE WORK FOR INSPECTION BY THE ENGINEER, REGULATORY AGENCIES, AND OWNER.
15. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE ENGINEER AS NECESSARY FOR CONSTRUCTION INSPECTION AND AS-BUILT CERTIFICATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT APPROPRIATE AND APPROVED TIMES DURING THE COURSE OF THE WORK THAT THE CONTRACTOR IS READY FOR INSPECTION. WORK THAT IS ASSEMBLED OR COVERED SO THAT THE ENGINEER CANNOT INSPECT THE WORK PROPERLY SHALL BE DISASSEMBLED, UNCOVERED, OR DESTROYED AS NECESSARY FOR INSPECTION. THE COSTS OF REPAIR OR RESTORATION OF THIS WORK SHALL BE BORNE SOLELY BY THE CONTRACTOR.
16. THE CONTRACTOR SHALL PROVIDE PERSONNEL AND EQUIPMENT FOR ENGINEER TO INSPECT AND INQUIRE ABOUT THE WORK. THIS MAY INCLUDE PROJECT MANAGERS, SUPERINTENDENTS, FOREMAN, LABORERS, LADDERS, HARD HATS, LIFTS, SCAFFOLDING, BOATS, MEASURING DEVICES, SURVEY EQUIPMENT, ETC.
17. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SHORING, BRACING, OR OTHER MEANS/METHODS NECESSARY TO STABILIZE ALL STRUCTURES (OR STAGED MATERIAL) UNTIL COMPLETED WITH ALL COMPONENTS INSTALLED. UNLESS SPECIFICALLY STATED ON THE DRAWINGS, THE CONTRACTOR SHALL ASSUME THE EOR HAS ONLY DESIGNED THE STRUCTURE(S) FOR THE FINAL CONSTRUCTED AND ASSEMBLED STATE AS SHOWN ON THE DRAWINGS.
18. ALL PERMANENT MATERIAL SHALL BE NEW. USED, RECONDITIONED, OR REMANUFACTURED MATERIAL SHALL NOT BE ALLOWED UNLESS AS DETAILED IN CONTRUCTION DOCUMENTS OR APPROVED BY THE OWNER IN WRITING.
19. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL AND STATE BUILDING CODES. PRE-CONSTRUCTION PLAN APPROVALS REQUIRED BY LOCAL BUILDING AUTHORITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL FORWARD ALL ENGINEERING RELATED QUESTIONS TO THE ENGINEER FOR CONSIDERATION. INSPECTIONS REQUIRED BY LOCAL BUILDING AUTHORITIES SHALL BE COORDINATED BY THE CONTRACTOR.
20. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES AS NECESSARY TO COMPLY WITH LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS. EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE A MINIMUM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY PERMIT AUTHORITIES. ANY ADDITIONAL EROSION CONTROL MEASURES SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COSTS TO THE OWNER.
21. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL DEBRIS. DEMOLITION DEBRIS SHALL BE DISPOSED OF OFFSITE AT A LICENSED LANDFILL IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.
22. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, WHICH MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT. SEE FDOT SPECIFICATION SECTION 108 FOR ADDITIONAL INFORMATION REGARDING PROTECTION OF EXISTING STRUCTURES.
23. CONTRACTOR SHALL PAY THE COST FOR ALL ELECTRICAL SERVICE UP TO FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.
24. THE COST OF ALL INSPECTION FEES SHALL BE BORNE BY CONTRACTOR.
25. IF PREHISTORIC OR HISTORIC ARTIFACTS, SUCH AS POTTERY OR CERAMICS, PROJECTILE POINTS, DUGOUT CANOES, METAL IMPLEMENTS, HISTORIC BUILDING MATERIALS, OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH NATIVE AMERICAN, EARLY EUROPEAN, OR AMERICAN SETTLEMENTS ARE ENCOUNTERED AT ANY TIME WITHIN THE PROJECT SITE AREA, THE PERMITTED PROJECT SHALL CEASE ALL ACTIVITIES INVOLVING SUBSURFACE DISTURBANCE IN THE VICINITY OF THE DISCOVERY. THE APPLICANT SHALL CONTACT THE FLORIDA DEPARTMENT OF STATE, DIVISION OF HISTORICAL RESOURCES, COMPLIANCE REVIEW SECTION AT (850)-245-6333. PROJECT ACTIVITIES SHALL NOT RESUME WITHOUT VERBAL AND/OR WRITTEN AUTHORIZATION. IN THE EVENT THAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTED ACTIVITIES, ALL WORK SHALL STOP IMMEDIATELY AND THE PROPER AUTHORITIES NOTIFIED IN ACCORDANCE WITH §872.05, FS.
26. THE CONTRACTOR SHALL WARRANTY THE WORK FOR A MINIMUM OF ONE YEAR UNLESS CLEARLY DEFINED OTHERWISE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL DEFECTIVE MATERIALS AND WORK AT NO COSTS TO THE OWNER WITHIN THE STATED WARRANTY PERIOD.

SURVEY NOTES

1. ALL ELEVATIONS REFERENCE THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD 88), ELEVATIONS IN FEET U.N.O.
2. ALL COORDINATES REFERENCE STATE PLANE FLORIDA NORTH NAD 83, COORDINATES IN FEET U.N.O.
3. PROJECT AERIAL IMAGERY RECORDED BY TAYLOR ENGINEERING, INC., AUGUST 27, 2021. AERIAL IMAGERY SUPPLEMENTED WITH GOOGLE EARTH, 2021. AERIAL IMAGERY IS FOR INFORMATIONAL PURPOSES ONLY, NO ACCURACY IS IMPLIED.
4. HYDROGRAPHIC SURVEY PERFORMED BY SEASIDE ENGINEERING AND SURVEYING, LLC, AUGUST 19, 2021.
5. MEAN HIGH-WATER LINE (MHWL) LOCATED BY SEASIDE ENGINEERING AND SURVEYING, LLC, SEPTEMBER 1-3, 2021.
6. BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED BY SEASIDE ENGINEERING AND SURVEYING, LLC, OCTOBER 7, 2021.
7. JURISDICTIONAL WETLANDS, SUBMERGED AQUATIC RESOURCES, AND INVASIVE SPECIES EXTENTS SURVEYED BY TAYLOR ENGINEERING, INC., AUGUST 23-27, 2021.
8. FORMAL DETERMINATION OF THE LANDWARD EXTEND OF WETLANDS AND OTHER SURFACE WATERS ISSUED BY THE FDEP FOR THIS PROJECT SITE ON AUGUST 16, 2022 (FDEP FILE NO. 0142030-002-FD/46).
9. APPROVED JURISDICTIONAL DETERMINATION (AJD) ISSUED BY THE USACE FOR THE UPLAND/WETLAND BOUNDARY FOR THIS PROJECT SITE ON MARCH 1, 2022 (USACE FILE NO. SAJ-2021-03967). THE LIMITS OF FEDERAL JURISDICTION (THE HIGH TIDE LINE) ALONG JOE’S BAYOU WERE NOT IDENTIFIED OR VERIFIED FOR THIS SITE AS PART OF THIS AJD.
10. SEAGRASS LOCATIONS SHOWN HEREIN MAY EXTEND WATERWARD BEYOND THE SURVEY LIMITS. THE OWNER WILL CONDUCT OR OBTAIN A PRECONSTRUCTION SEAGRASS SURVEY TO CONFIRM SEAGRASS LOCATIONS IMMEDIATELY PRIOR TO CONSTRUCTION.
11. NO SEAGRASS IMPACTS ARE ALLOWABLE. MARK ALL SEAGRASSES WITH PVC STAKES IN COORDINATION WITH THE ENGINEER. MAINTAIN 1 FT CLEAR DISTANCE TO THE BOTTOM (DRAFT) AT ALL TIMES.
12. TIDAL DATUM OBTAINED FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, DEC 2023. PROJECT SITE USES TIDAL DATUM FOR NOAA STATION 8729511 DESTIN, EAST PASS, FL.
13. THE INFORMATION ON THESE DRAWINGS REPRESENTS THE RESULTS OF THE SURVEYS PERFORMED ON THE DATES AS INDICATED. THE INFORMATION FROM THESE SURVEYS CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THE TIME OF THE SURVEYS.
14. ANY PUBLIC LAND CORNER OR BENCHMARK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE IMMEDIATELY. ANY MONUMENT OTHERWISE DESTROYED BY CONTRACTOR SHALL BE RESET BY A FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AT CONTRACTOR'S EXPENSE.
15. IF ANY GEODETIC MONUMENT WITHIN THE LIMITS OF CONSTRUCTION ARE DISTURBED, CONTRACTOR SHALL NOTIFY NOAA NATIONAL GEODETIC SURVEY.
16. ALL BENCHMARKS NOTED ON THE PLANS ARE TO BE MAINTAINED THROUGHOUT THE PROJECT. DESTROYED BENCHMARKS SHALL BE REDEFINED BY A FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AT THE CONTRACTOR'S EXPENSE.

GEOTECHNICAL DATA

1. GEOTECHNICAL EXPLORATION AND TESTING REPORT WILL BE PROVIDED TO PROSPECTIVE BIDDERS.
   A. JOES BAYOU IMPROVEMENTS BY LARRY M. JACOBS AND ASSOCIATES, INC. DATED NOVEMEBR 3, 2023.
2. CONTRACTOR IS REQUIRED TO REVIEW THE GEOTECHINAL REPORT PRIOR TO SUBMITTING BIDS.

STAGING AND CONSTRUCTION ACCESS

1. STAGING AND ACCESS AREAS SHOWN ON THE DRAWINGS ARE PROPOSED FOR BIDDING PURPOSES. CONTRACTOR MAY PROPOSE ADDITIONAL STAGING OR ACCESS AREAS BUT WILL BE RESPONSIBLE FOR REVIEWING THE SITES SUITABILITY FOR THE PROPOSED WORK AND, IF ACCEPTABLE, OBTAINING USE AGREEMENTS WITH THE PROPERTY OWNER FOR THE PROPOSED WORK. CONTRACTOR MAY PROPOSE ADDITIONAL OR ALTERNATIVE STAGING AREAS, LOADING AREAS, TEMPORARY FACILITIES, OR OTHER WORK LOCATIONS IN THEIR CONSTRUCTION WORK PLAN FOR ENGINEER AND OWNER REVIEW AND ACCEPTANCE.
2. THE CONTRACTOR SHALL PLACE BARRICADES AND SIGNS INDICATING THE AREAS AND LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL EXCLUDE THE PUBLIC FROM WORK AREAS AS NECESSARY.
3. RIGHT OF WAY MAY NOT BE USED FOR STORAGE OF NEW OR REMOVED MATERIAL. ANY SITE WITHIN THE PROJECT LIMITS INTENDED FOR MATERIAL STORAGE MUST BE PRE-APPROVED BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE. ANY SOIL, PIPE, UTILITIES, CONCRETE, ASPHALT, VEGETATION OR SIGNAGE MATERIALS THAT ARE REMOVED AND ARE NOT INTENDED FOR RE-USE SHALL BE REMOVED FROM THE PROJECT EACH WORKDAY AND CANNOT REMAIN ONSITE. NEW OR EXISTING MATERIALS MUST BE REMOVED FROM THE RIGHT OF WAY AT THE END OF EACH WORKDAY.
4. THE CONTRACTOR SHALL COORDINATE WORK HOURS WITH OWNER AND ENGINEER TO MEET PROJECT SCHEDULE REQUIREMENTS. WORK HOURS SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS AND FDEP AGREEMENT.
5. CONTRACTOR WILL NOT BE ALLOWED TO TRAVERSE, UTILIZE, OR IMPACT ADJACENT PROPERTIES WITHOUT SPECIFIC AUTHORIZATION FROM THE PROPERTY OWNER AND A CONSTRUCTION WORK PLAN ACCEPTED BY THE OWNER AND ENGINEER.
6. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH ALL OTHER CONSTRUCTION ADJACENT TO THE PROJECT. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE PRIOR TO PROCEEDING WITH CONSTRUCTION.
7. THE CONTRACTOR SHALL NOT UTILIZE NEIGHBORHOOD STREETS FOR CONSTRUCTION RELATED TRAFFIC.
8. IN ORDER TO LIMIT DISTURBANCE TO THE SURROUNDING NEIGHBORHOODS, CONTRACTOR SHALL BE LIMITED TO CONSTRUCTION BETWEEN THE HOURS OF 7:00 A.M. TO 7:00 P.M. MONDAY THROUGH FRIDAY AND FROM 9:00 A.M. TO 7:00 P.M. ON SATURDAY OR AS INDICATED BY THE FINAL DEVELOPMENT ORDER. CONSTRUCTION OUTSIDE OF THESE HOURS MUST HAVE PRIOR WRITTEN CONSENT FROM THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.
9. THE CONTRACTOR'S PROPOSED MATERIAL LOADING, HANDLING, HAULING, AND PLACEMENT OPERATIONS SHALL BE PERFORMED IN SUCH A MANNER AS TO MINIMIZE THE WORK AREA FOOTPRINT, REDUCE DAMAGE TO UPLAND AND NEARSHORE PROPERTY, REDUCE THE POTENTIAL DETERIORATION OF EXISTING ACCESSES AND HAUL ROUTES, AND AVOID IMPACTS TO VEGETATION TO THE GREATEST EXTENT PRACTICAL.
10. THE CONTRACTOR PROPOSED STAGING AREAS AND ACCESS CORRIDORS SHALL BE SUBJECT TO REVIEW BY THE OWNER AND ENGINEER. ACCEPTED AREAS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND BE RESTORED TO THE ORIGINAL CONDITION FOLLOWING CONSTRUCTION. THE CONTRACTOR SHALL CLEARLY IDENTIFY THE ACCEPTED STAGING AREA (WITH FLAGS, STAKES, OR SIMILAR) AND MAY NOT OPERATE EQUIPMENT OR TRANSVERSE AREAS OUTSIDE THE MARKED AREA WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
11. THE CONTRACTOR IS REQUIRED TO RESTORE THE ACCEPTED STAGING AND CORRIDOR AREAS TO THE ORIGINAL SITE CONDITION. RESTORATION ACTIVITIES MAY INCLUDE, BUT SHALL NOT BE LIMITED TO, REPLACING OR REPAIRING DAMAGED INFRASTRUCTURE (INCLUDING FENCING, PAVEMENT, ETC.), PLACING AND GRADING CLEAN SAND FILL IN RUTTED OR DISTURBED AREAS, AND VEGETATION RESTORATION.
12. VEGETATION RESTORATION WILL NOT BE REQUIRED WITHIN THE FOOTPRINT OF (I.E., BENEATH) BOARDWALKS AND OTHER STRUCTURES.
13. THE CONTRACTOR SHALL SUBMIT A RESTORATION PLAN TO ADDRESS ALL IDENTIFIED SITE RESTORATION REQUIREMENTS WITHIN 10 DAYS OF RECEIVING A REQUEST FROM THE ENGINEER. THE CONTRACTOR WILL ADDRESS ANY COMMENTS OR REQUESTS MADE BY THE ENGINEER AND COMMENCE RESTORATION WORK IMMEDIATELY UPON RECEIPT OF SUBMITTAL ACCEPTANCE.

AS-BUILT SURVEY AND RECORD DRAWINGS

1. RECORD DRAWINGS: A COPY OF THE ORIGINAL SIGNED AND SEALED DRAWINGS KEPT ONSITE AT ALL TIMES WHERE THE CONTRACTOR SHALL KEEP A RECORD OF ALL DEVIATIONS FROM THE ORIGINAL DRAWINGS MARKED IN RED PENCIL OR PEN. WHEN ALL SUBSTANTIAL WORK IS DONE AND BEFORE NOTICE OF FINAL COMPLETION OF THE WORK, THE CONTRACTOR SHALL SUBMIT THE ORIGINAL RECORD DRAWINGS TO THE ENGINEER AND UP TO 3 FULL SIZE COPIES AS REQUESTED BY THE ENGINEER.
2. AS-BUILT SURVEY DRAWINGS: POST-CONSTRUCTION SURVEY DRAWINGS SIGNED AND SEALED BY A FLORIDA LICENSED SURVEYOR AND MAPPER PURSUANT TO CHAPTER 472 FLORIDA STATUTES, MARKED “AS-BUILT” DRAWINGS, AND REVIEWED BY THE ENGINEER(S). THE SURVEY SHALL INCLUDE, OR THE ENGINEER SHALL MARK ON THESE AS-BUILT SURVEYS, ALL MAJOR SITE ELEMENTS AND ELEVATIONS AS DEPICTED IN THE CONSTRUCTION DRAWING SET, AS WELL AS ANY SIGNIFICANT DEVIATIONS IN THE WORK AS RECORDED BY THE CONTRACTOR ON THE RECORD DRAWINGS OR AS KNOWN TO THE ENGINEER. IF THE DEVIATIONS ARE TOO EXTENSIVE TO TRANSFER, THE ENGINEER MAY STAPLE TOGETHER THE AS-BUILT SURVEY DRAWINGS WITH THE RECORD DRAWINGS AND MARK THE FIRST SHEET OF EACH AS "AS-BUILT". THE AS-BUILT SURVEY SHALL BE SUBMITTED IN DIGITAL AND 24" X 36" PAPER VERSIONS (UP TO 6 COPIES) TO THE ENGINEER AND OWNER FOR APPROVAL. THE AS-BUILT SURVEY SHALL BE PERFORMED IN THE SAME HORIZONTAL AND VERTICAL COORDINATE SYSTEM THE DRAWINGS ARE IN. DIGITAL DRAWINGS SHALL BE IN AUTOCAD 2016 OR NEWER VERSION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIREMENTS RELATING TO ELEVATION CERTIFICATE FEMA NFIP ELEVATION CERTIFICATE FORM 0860-0-33 FOR PRE-CONSTRUCTION, UNDER CONSTRUCTION (FOR FOUNDATION FINISHED FLOOR OR PLACEMENT OF FIRST HORIZONTAL STRUCTURAL MEMBER) AND FINAL CONSTRUCTION PER CITY OF DESTIN COUNTY COMMUNITY DEVELOPMENT DEPARTMENT, BUILDING DIVISION. CONTACT BUILDING DIVISION AT 850.654.1119 OR PERMITS@CITYOFDESTIN.COM FOR QUESTIONS RELATING TO CITY BUILDING REQUIREMENTS.

ACCESSIBILITY

CONTRACTOR SHALL BE ACCOUNTABLE FOR ACCESSIBILITY COMPLIANCE FOR ALL PROJECT IMPROVEMENTS. COMPLIANCE WITH FLORIDA STATUTES 553.5041 FLORIDA STATUTES (FS) AND THE 2023 FLORIDA BUILDING CODE – ACCESSIBILITY (FBC-A) IS MANDATORY. IF INCORRECT AT THE FINAL INSPECTION, CONTRACTOR SHALL BE REQUIRED TO MODIFY CONSTRUCTION TO COMPLY WITH FLORIDA STATUTUES AND FBC–A.

SUBMITTAL PROCEDURES

1. CONTRACTOR SHALL FOLLOW ALL SUBMITTAL PROCEDURES AS SPECIFIED IN CONSTRUCTION SPECIFICATIONS SECTION 01 33 00 SUBMITTAL PROCEDURES AND SECTION 01 33 00 A SUBMITTAL LOG
2. DELIVER SUBMITTALS TO THE ENGINEER VIA EMAIL OR OTHER OWNER-APPROVED CORRESPONDENCE.
3. ENGINEER'S REVIEW OF SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM ANY RESPONSIBILITIES FOR PERFORMANCE REQUIREMENTS AS DEFINED IN THE CONTRACT DOCUMENTS. NEITHER SHALL ENGINEER'S

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4300 LEGENDARY DRIVE
SUITE C246
DESTIN, FLORIDA 32541
(850) 460-7040
REGISTRY # 4815

SEAL

ENG

PROJECT TITLE

JOES BAYOU RECREATION AREA
IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

SEE SHEET C-2 FOR GENERAL NOTES. THIS PAGE NOT VALID WITHOUT SHEET C-2

NO.	ZONE	REVISIONS / SUBMISSIONS	DATE

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PROJECT NO	C2021-045
DATE	MAY 2026
DESIGNED	DG
DRAWN	AF
CHECKED	CHECKBY
REVIEWED	REVBY

SHEET TITLE

GENERAL NOTES

G-3

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REVIEW RELEASE THE CONTRACTOR FROM FULFILLING PURPOSE OF INSTALLATION NOR FROM CONTRACTOR'S LIABILITY TO REPLACE DEFECTIVE WORK.

4. ENGINEER'S REVIEW OF SHOP DRAWINGS, SAMPLES, OR TEST PROCEDURES WILL BE ONLY FOR CONFORMANCE WITH GENERAL DESIGN CONCEPTS AND FOR COMPLIANCE WITH INFORMATION GIVEN IN CONTRACT DOCUMENTS. ENGINEER'S REVIEW DOES NOT EXTEND TO:
   a. ACCURACY OF DIMENSIONS, QUANTITIES, OR PERFORMANCE OF EQUIPMENT AND SYSTEMS DESIGNED BY CONTRACTOR.
   b. CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES EXCEPT WHEN SPECIFIED, INDICATED ON THE DRAWINGS, OR REQUIRED BY CONTRACT DOCUMENTS
   c. SAFETY PRECAUTIONS OR PROGRAMS RELATED TO SAFETY, WHICH SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. ENGINEER WILL BE ENTITLED TO RELY UPON THE ACCURACY OR COMPLETENESS OF DESIGNS, CALCULATIONS, OR CERTIFICATIONS MADE BY LICENSED PROFESSIONALS ACCOMPANYING A PARTICULAR SUBMITTAL WHETHER OR NOT A STAMP OR SEAL IS REQUIRED BY CONTRACT DOCUMENTS OR LAWS AND REGULATIONS.
6. CONTRACTOR SHALL MAINTAIN A TABULAR SUBMITTAL LOG (I.E., REGISTER) INDICATING ALL REQUIRED SUBMITTALS AND THOSE NECESSARY TO COMPLETE TO THE WORK. CONTRACTOR SHALL PROVIDE THE DRAFT SUBMITTAL REGISTER 10 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING FOR OWNER AND ENGINEER REVIEW AND COMMENT. SEE CONSTRUCTION SPECIFICATIONS SECTION 01 33 00 A SUBMITTAL LOG

SUBMITTALS AND TESTING REQUIREMENTS

1. ALL TESTING, EITHER PRE-CONSTRUCTION OR CONSTRUCTION, AS REQUIRED HEREIN OR IN THE CONTRACT DOCUMENTS, SHALL BE PERFORMED BY AN INDEPENDENT QUALIFIED TESTING COMPANY. THE COSTS OF ALL SUCH TESTING SHALL BE BORNE BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE BID PRICE.
2. THE QUALIFIED TESTING AGENCY SHALL BE APPROVED PER FDOT STANDARDS, AASHTO STANDARDS OR SIMILAR SUCH STANDARDS AS APPROVED BY THE ENGINEER. ALL TESTING WORK SHALL BE DONE UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER LICENSED IN FLORIDA AND SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IF REQUESTED.
3. ALL REQUIRED SUBMITTALS OR MANUFACTURER'S INFORMATION SHALL BE IN U.S. CUSTOMARY UNITS.
4. ALL TECHNICAL SUBMITTALS ON THESE DRAWINGS AND IN CONTRACT DOCUMENTS REQUIRE APPROVAL BY THE ENGINEER U.N.O.

MEASUREMENT AND PAYMENT

1. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS SPECIFIED IN CONSTRUCTION SPECIFICATIONS SECTION 01 29 00 MEASUREMENT AND PAYMENT.
2. THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF VALUES CONTAINING THE WORK COMPONENTS OF EACH BID ITEM OF THE PROPOSAL FOR APPROVAL PRIOR TO THE FIRST PAYMENT APPLICATION FOR WORK IN PROGRESS.
3. SUBMITTALS ARE CONSIDERED PART OF THE CONTRACTOR'S ADMINISTRATIVE AND OVERHEAD COSTS. THE CONTACTOR WILL NOT BE COMPENSATED SEPARATELY FOR SUBMITTALS REQUIRED BY THESE SPECIFICATIONS OR THOSE LISTED ON THE CONSTRUCTION DRAWINGS.
4. SEPARATE PAYMENT WILL NOT BE MADE FOR PROVIDING AND MAINTAINING AN EFFECTIVE QUALITY CONTROL PROGRAM, AND ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE APPLICABLE UNIT PRICES OR LUMP-SUM PRICES CONTAINED IN THE BID SCHEDULE.
5. FOR THE PURPOSE OF THE WORK ITEMS LISTED IN THE BID SCHEDULE, COMPLETE INSTALLATION WILL MEAN THE INCLUSION OF DEMOLITION WORK, SITE RESTORATION TO EXISTING OR BETTER CONDITIONS, AND TESTING, ALL INCLUDED IN THE COST TO COMPLETE THE WORK ITEM (AS APPLICABLE).
6. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE PERMITS AND OWNER REQUIREMENTS.
7. THE INTENT OF THE BID SCHEDULE IS TO ESTABLISH A TOTAL PRICE FOR COMPLETING THE WORK IN ITS ENTIRETY. UNLESS OTHERWISE STATED, PAYMENT FOR ALL BID ITEMS WILL BE MADE FOR FURNISHING AND INSTALLING ALL MATERIALS, LABOR, AND EQUIPMENT REQUIRED TO COMPLETE EACH BID ITEM. EACH BID ITEM SHALL INCLUDE COSTS TO TRANSPORT THE MATERIAL TO THE WORK SITE UNLESS OTHERWISE STATED.

TIDAL DATUM

MLLW

TIDAL DATUM REFERENCE:	
MHHW	0.61'
MHW	0.60'
MSL	0.28'
MLW	0.01'
MLLW	0.00'
NAVD88	-0.12'

NAVD 1988

TIDAL DATUM REFERENCE:	
MHHW	0.73'
MHW	0.72'
MSL	0.4'
MLW	0.13'
MLLW	0.12'
NAVD88	0.00'

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SEE SHEET C-2 FOR GENERAL NOTES. THIS PAGE NOT VALID WITHOUT SHEET C-2

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

Call 811 before you dig.

PROJECT NO	C2021-045
DATE	MAY 2026
DESIGNED	DG
DRAWN	AF
CHECKED	CHECKBY
REVIEWED	REVBY

SHEET TITLE

GENERAL NOTES

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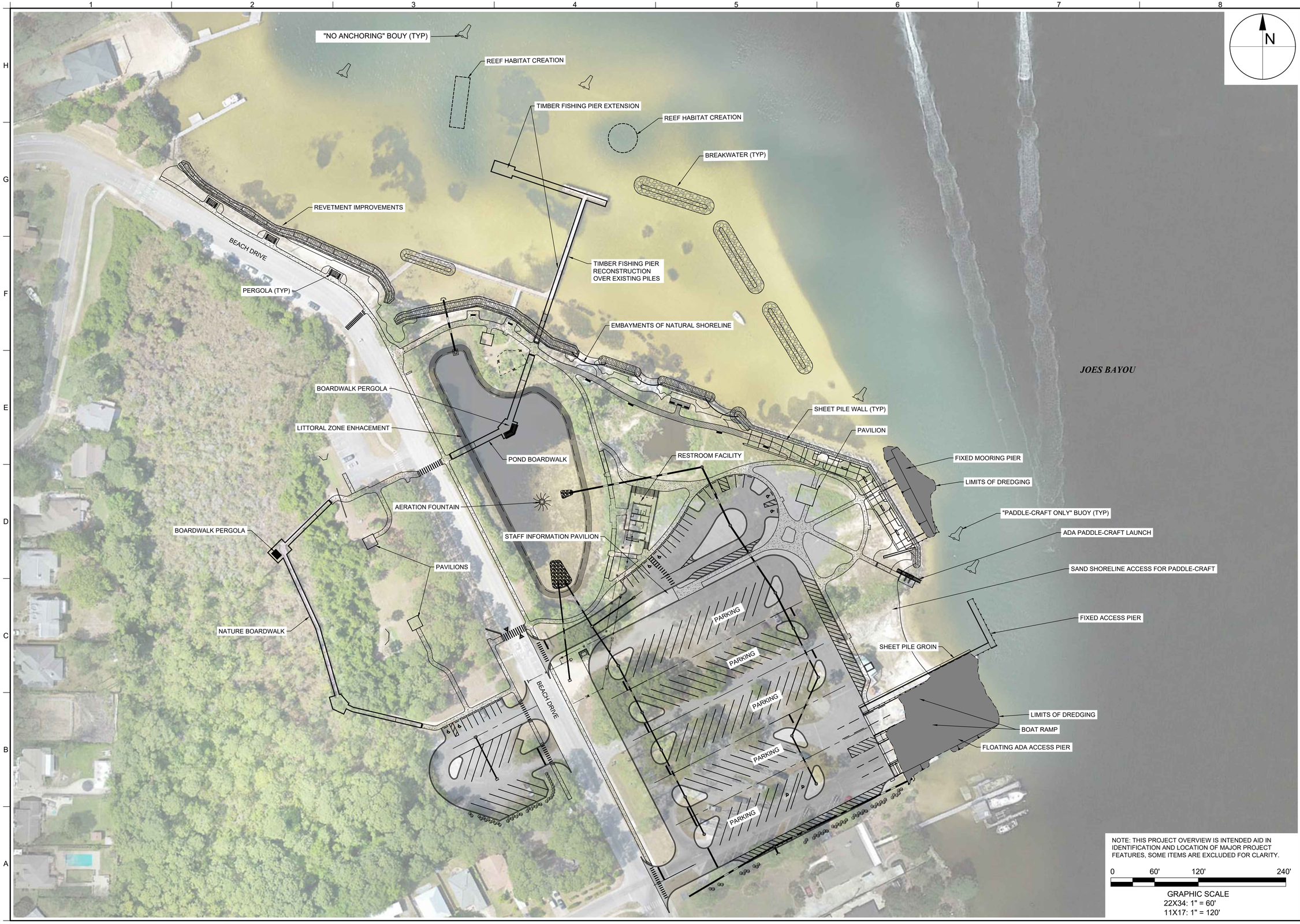

NOTE: THIS PROJECT OVERVIEW IS INTENDED AID IN IDENTIFICATION AND LOCATION OF MAJOR PROJECT FEATURES, SOME ITEMS ARE EXCLUDED FOR CLARITY.

0 60' 120' 240'

GRAPHIC SCALE
22X34: 1" = 60'
11X17: 1" = 120'

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PROJECT NO	C2021-045
DATE	MAY 2026
DESIGNED	DG
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REVIEWED	REVBY

SHEET TITLE

PROJECT OVERVIEW

G-5

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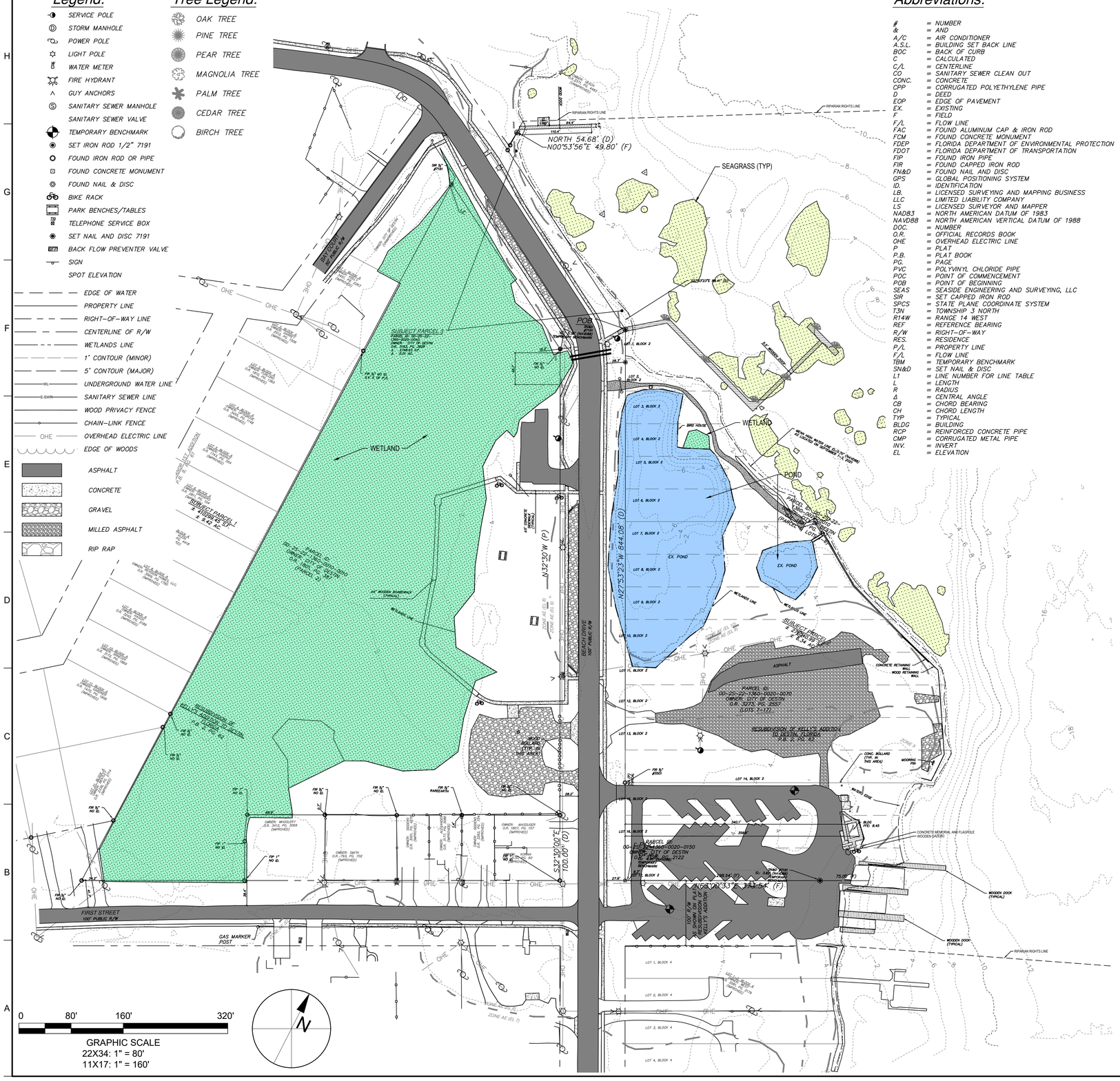
Legend:

- SERVICE POLE
- STORM MANHOLE
- POWER POLE
- LIGHT POLE
- WATER METER
- FIRE HYDRANT
- GUY ANCHORS
- SANITARY SEWER MANHOLE
- SANITARY SEWER VALVE
- TEMPORARY BENCHMARK
- SET IRON ROD 1/2" 7191
- FOUND IRON ROD OR PIPE
- FOUND CONCRETE MONUMENT
- FOUND NAIL & DISC
- BIKE RACK
- PARK BENCHES/TABLES
- TELEPHONE SERVICE BOX
- SET NAIL AND DISC 7191
- BACK FLOW PREVENTER VALVE
- SIGN
- SPOT ELEVATION
- EDGE OF WATER
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- CENTERLINE OF R/W
- WETLANDS LINE
- 1' CONTOUR (MINOR)
- 5' CONTOUR (MAJOR)
- UNDERGROUND WATER LINE
- SANITARY SEWER LINE
- WOOD PRIVACY FENCE
- CHAIN-LINK FENCE
- OVERHEAD ELECTRIC LINE
- EDGE OF WOODS
- ASPHALT
- CONCRETE
- GRAVEL
- MILLED ASPHALT
- RIP RAP

Tree Legend:

- OAK TREE
- PINE TREE
- PEAR TREE
- MAGNOLIA TREE
- PALM TREE
- CEDAR TREE
- BIRCH TREE



Abbreviations:

#	=	NUMBER
&	=	AND
A/C	=	AIR CONDITIONER
A.S.L.	=	BUILDING SET BACK LINE
BOC	=	BACK OF CURB
C	=	CALCULATED
C/L	=	CENTERLINE
CO	=	SANITARY SEWER CLEAN OUT
CONC.	=	CONCRETE
CPP	=	CORRUGATED POLYETHYLENE PIPE
D	=	DEED
EOP	=	EDGE OF PAVEMENT
EX.	=	EXISTING
F	=	FIELD
F/L	=	FLOW LINE
FAC	=	FOUND ALUMINUM CAP & IRON ROD
FCM	=	FOUND CONCRETE MONUMENT
FDEP	=	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
FDOT	=	FLORIDA DEPARTMENT OF TRANSPORTATION
FIP	=	FOUND IRON PIPE
FIR	=	FOUND CAPPED IRON ROD
FN&D	=	FOUND NAIL AND DISC
GPS	=	GLOBAL POSITIONING SYSTEM
ID.	=	IDENTIFICATION
LB.	=	LICENSED SURVEYING AND MAPPING BUSINESS
LLC	=	LIMITED LIABILITY COMPANY
LS	=	LICENSED SURVEYOR AND MAPPER
NAD83	=	NORTH AMERICAN DATUM OF 1983
NAVD88	=	NORTH AMERICAN VERTICAL DATUM OF 1988
DOC.	=	NUMBER
O.R.	=	OFFICIAL RECORDS BOOK
OHE	=	OVERHEAD ELECTRIC LINE
P	=	PLAT
P.B.	=	PLAT BOOK
PG.	=	PAGE
PVC	=	POLYVINYL CHLORIDE PIPE
POC	=	POINT OF COMMENCEMENT
POB	=	POINT OF BEGINNING
SEAS	=	SEASIDE ENGINEERING AND SURVEYING, LLC
SIR	=	SET CAPPED IRON ROD
SPCS	=	STATE PLANE COORDINATE SYSTEM
T.3N	=	TOWNSHIP 3 NORTH
R14W	=	RANGE 14 WEST
REF	=	REFERENCE BEARING
R/W	=	RIGHT-OF-WAY
RES.	=	RESIDENCE
P/L	=	PROPERTY LINE
F/L	=	FLOW LINE
TBM	=	TEMPORARY BENCHMARK
SN&D	=	SET NAIL & DISC
L1	=	LINE NUMBER FOR LINE TABLE
L	=	LENGTH
R	=	RADIUS
Δ	=	CENTRAL ANGLE
CB	=	CHORD BEARING
CH	=	CHORD LENGTH
TYP	=	TYPICAL
BLDG	=	BUILDING
RCP	=	REINFORCED CONCRETE PIPE
CMP	=	CORRUGATED METAL PIPE
INV.	=	INVERT
EL	=	ELEVATION

Legal Descriptions :

AS FURNISHED

O.R. 3183, PG. 3828

COMMENCE AT A P.R.M. MARKING THE SOUTHWEST CORNER OF LOT 17, BLOCK 2, AS SHOWN ON PLAT OF A RESUBDIVISION OF KELLY'S ADDITION TO DESTIN, FLORIDA, AS RECORDED IN PLAT BOOK 2, PAGE 62, OKALOOSA COUNTY, FLORIDA; RUN NORTH 27 DEGREES 53 MINUTES 23 SECONDS WEST (NORTH 32 DEGREES 30 SECONDS WEST PLAT BEARING), ALONG THE EASTERLY RIGHT OF WAY OF BEACH DRIVE (100 FOOT R/W) A DISTANCE OF 844.08 FEET TO AN IRON PIPE AND THE POINT OF BEGINNING; THENCE RUN NORTH 61 DEGREES 11 MINUTES 23 SECONDS WEST ALONG THE NORTHEASTERLY RIGHT OF WAY OF BEACH DRIVE 329.01 FEET TO AN IRON PIPE; THENCE RUN NORTH ALONG THE EASTERLY RIGHT OF WAY OF A 50 FOOT ROAD, AS SHOWN ON STATE ROAD RIGHT OF WAY MAP (DRAWN JULY 26, 1951, SECTION NO. 5760-150) A DISTANCE OF 54.68 FEET TO AN IRON PIPE AT THE HIGH WATER MARK OF JOE'S BAYOU; THENCE RUN SOUTHEASTERLY ALONG THE WATERS EDGE OF JOE'S BAYOU TO AN IRON PIPE WHICH IS NORTH 27 DEGREES 53 MINUTES 23 SECONDS WEST OF THE POINT OF BEGINNING; THENCE RUN SOUTH 27 DEGREES 53 MINUTES 23 SECONDS EAST A DISTANCE OF 88.41 FEET TO THE POINT OF BEGINNING, SAID TRACT SITUATED IN TOWNSHIP 2 SOUTH, RANGE 22 WEST ON PART OF MORENO POINT MILITARY RESERVATION, DESTIN, OKALOOSA COUNTY, FLORIDA.

O.R. 1801, PG.387

PARCEL 1:

LOTS 1 THROUGH 6, INCLUSIVE, BLOCK 2, A RESUBDIVISION OF KELLY'S ADDITION TO DESTIN, FLORIDA, AS RECORDED IN PLAT BOOK 2, PAGE 62, PUBLIC RECORDS OF OKALOOSA COUNTY, FLORIDA.

PARCEL 2:

BLOCK 1, OF A RESUBDIVISION OF KELLY'S ADDITION TO DESTIN, FLORIDA, AS RECORDED IN PLAT BOOK 2, PAGE 62, OKALOOSA COUNTY, FLORIDA, LESS AND EXCEPT PARCELS SOLD IN THE SOUTHEAST CORNER OF SAID BLOCK WHICH ENCOMPASS APPROXIMATELY 483.2 FEET EAST AND WEST AND 100 FEET NORTH AND SOUTH, SAID EXCEPTED PARCELS BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTHEASTERLY CORNER OF BLOCK 1, OF A RESUBDIVISION OF KELLY'S ADDITION TO DESTIN, FLORIDA AS RECORDED IN PLAT BOOK 2, PAGE 62, OKALOOSA COUNTY, FLORIDA; THENCE S 57°30'00" W ALONG THE NORTHERLY RIGHT OF WAY OF FIRST STREET (100 FT R/W) A DISTANCE OF 483.2 FEET TO THE SOUTHWESTERLY CORNER OF THE PARCEL DESCRIBED IN OFFICIAL RECORDS BOOK 821, PAGE 455; THENCE N 32° 30'00" W ALONG THE WESTERLY LINE OF SAID PARCEL A DISTANCE OF 60.00 FEET TO THE P.C. OF A CURVE CONCAVE TO THE EAST, HAVING A RADIUS OF 180.64 FEET AND A CENTRAL ANGLE OF 12°47'36" (CALCULATED), 12°41'14" (O.R. BOOK 821, PAGE 455); THENCE NORTHERLY ALONG SAID CURVE A DISTANCE OF 40. 33 FEET (CALCULATED), 40.00 FEET (O.R. BOOK 821, PAGE 455), TO THE NORTHWEST CORNER OF SAID PARCEL RECORDED IN O.R. BOOK 821, PAGE 455; THENCE N 57°30'00" E A DISTANCE OF 478.70 FEET TO THE WESTERLY RIGHT OF WAY OF BEACH DRIVE (100 FT R/W); THENCE S32°30'00" E ALONG SAID RIGHT OF WAY A DISTANCE OF 100 FEET TO THE POINT OF BEGINNING.

ALL LYING IN THE UNSECTIONALIZED TOWNSHIP 2 SOUTH, RANGE 22 WEST, OKALOOSA COUNTY, FLORIDA.

SUBJECT TO RESTRICTIONS, RESERVATIONS AND EASEMENTS OF RECORD,

IF ANY, WHICH ARE NOT REIMPOSED HEREBY, AND TAXES SUBSEQUENT TO DECEMBER 31ST, 1993.

O.R. 3273, PG. 2557

LOTS 7 THROUGH 14, INCLUSIVE, BLOCK 2, A RESUBDIVISION OF KELLY'S ADDITION TO DESTIN, ACCORDING TO PLAT THEREOF RECORDED IN PLAT BOOK 2 AT PAGE 62 OF THE PUBLIC RECORDS OF OKALOOSA COUNTY, FLORIDA.

BEING THE PROPERTY CONVEYED TO READY MIX USA, LLC BY SPECIAL WARRANTY DEED FROM CEMEX, INC., SUCCESSOR BY MERGER TO FLORIDA MINING & MATERIALS CONCRETE CORP., RECORDED AUGUST 16, 2005 IN BOOK 2644 PAGE 1552 IN THE PUBLIC RECORDS FOR OKALOOSA COUNTY, FLORIDA.

O.R. 3273, PG. 2557

LOT 15, 16, AND 17, BLOCK 2, A RESUBDIVISION OF KELLY'S ADDITION TO DESTIN, RECORDED IN PLAT BOOK 2, AT PAGE 62 OF THE PUBLIC RECORDS OF OKALOOSA COUNTY, FLORIDA.

PARCEL I.D. NUMBER: 00-2S-22-1360-0020-0150

SUBJECT PROPERTY IS NOT THE HOMESTEAD OF GRANTOR.

SUBJECT PROPERTY IS CONVEYED FREE AND CLEAR OF ANY MORTGAGE LIEN.

THE PURPOSE OF THIS DEED IS TO CONVEY ALL OF THE RIGHTS OF POSSESSION OF GRANTOR TO GRANTEE.

THE PROVISION IN THE WARRANTY DEED DATED SEPTEMBER 25, 1996, RECORDED IN BOOK 2025, PAGE 1585, IN THE OFFICIAL RECORDS OF OKALOOSA COUNTY, FLORIDA, RESTRICTING THE PROPERTY TO PUBLIC USE ONLY IS UNAFFECTED HEREBY.

Survey Notes:

1. FIELD BEARINGS SHOWN HEREON ARE STATE PLANE COORDINATES SYSTEM (SPCS) FLORIDA NORTH ZONE (NAD83) AND ARE REFERENCED TO THE EAST RIGHT-OF-WAY LINE OF BEACH DRIVE HAVING A FIELD BEARING OF N26°59'27"W.
2. TRIMBLE R12 AND TOPCON GR-5 GLOBAL POSITIONING RECEIVERS (GPS) RECEIVERS WERE USED TO ESTABLISH HORIZONTAL AND VERTICAL CONTROL. GPS STATIC AND GPS RTK OBSERVATIONS WERE MADE DURING THE COURSE OF THIS SURVEY.
3. A SIX HOUR AND 12 MINUTE GPS STATIC SESSION WAS OBSERVED ON AUGUST 13, 2021 TO ESTABLISH GEODETIC CONTROL TO THE SITE. THE GPS DATA WAS PROCESSED USING NATIONAL GEODETIC SURVEY (NGS) ONLINE POSITIONING USER SERVICE (OPUS). CONTINUOUSLY OPERATING REFERNCE STATIONS (CORS) IN ENTERPRISE & FOLEY, ALABAMA AND PENSACOLA, FLORIDA WERE USED IN PROCESSING TO DERIVE THE STATE PLANE COORDINATES. ELEVATIONS ON THE SITE ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988, AND ARE REFERENCED TO THE NATIONAL GEODETIC SURVEY TIDAL BENCHMARK "872 9511 C TIDAL".
4. UNDERGROUND ENCROACHMENTS, IF ANY, WERE NOT LOCATED.
5. SURVEY DATA DEPICTED HEREON WHICH IS OUTSIDE THE DESCRIBED PROPERTY DOES NOT IMPLY OWNERSHIP AND IS SHOWN STRICTLY FOR INFORMATIONAL PURPOSES ONLY.
6. SEASIDE ENGINEERING AND SURVEYING, LLC (SEAS) HAS NOT BEEN PROVIDED A TITLE OPINION OR ABSTRACT OF THE PROPERTY SHOWN HEREON, NOR HAS SEAS PERFORMED A SEARCH OF THE PUBLIC RECORDS OF OKALOOSA COUNTY, FLORIDA.
7. THERE MAY BE ADDITIONAL RESTRICTIONS NOT SHOWN IN THIS DRAWING THAT MAY BE FOUND IN THE PUBLIC RECORDS OF OKALOOSA COUNTY.
8. GRAPHICAL REPRESENTATION OF UTILITIES, SIGNAGE, AND SURVEY MONUMENTS MAY BE EXAGGERATED IN SCALE FOR CLARITY.
9. HORIZONTAL POSITIONING FOR HYDROGRAPHIC DATA COLLECTION WAS DONE USING A TOPCON GR3 GNSS RECEIVER BROADCASTING RTK (REAL-TIME KINEMATIC) CORRECTIONS FROM CONTROL ON SITE AND AN APPLANIX POS MV WAVEMASTER GPS / IMU SYSTEM ON-BOARD THE SURVEY BOAT.
10. SOUNDINGS WERE COLLECTED USING A RESON SEABAT 7125 MULTIBEAM SYSTEM.
11. REAL-TIME KINEMATIC CORRECTION WAS USED TO PROVIDE HORIZONTAL AND THE VERTICAL POSITION DURING THE SURVEY.
12. SOUND VELOCITY DETERMINED USING A ODOM DIGIBAR-S (SOUND VELOCITY PROFILER) WITH MEASUREMENTS TAKEN EVERY 0.5 METERS.
13. HYPACK 2020 HYDROGRAPHIC SOFTWARE WAS USED TO COLLECT AND PROCESS ALL HYDROGRAPHIC SURVEY DATA.
14. SURVEY VESSEL WAS A SCULLY 28' ALUMINUM SHALLOW V-HULL SURVEY BOAT WITH THE SEABAT MULTIBEAM HEAD DEPLOYED THROUGH A MOON WELL IN THE CENTERLINE OF THE HULL.
15. THE LOCATION OF THE RIPARIAN LINES SHOWN HEREON WERE DETERMINED USING RESOURCES THAT WERE READILY AVAILABLE TO THE PUBLIC AT THE TIME OF THE SURVEY.
16. CONTOURS ARE AT ONE FOOT INTERVALS.
17. HYDROGRAPHIC SURVEY DATA COLLECTED ON AUGUST 19, 2021.
18. ALL MEASUREMENTS ARE IN U.S. SURVEY FEET.
19. THIS TIDAL WATER SURVEY COMPLIES WITH CHAPTER 177, PART II, FLORIDA STATUTES.
20. THE MEAN HIGH WATER ELEVATION WAS ESTABLISHED BY EXTENDING THE ELEVATION AT TIDE INTERPOLATION POINT NUMBER 1543 TO THE SITE.
21. MEAN HIGH WATER LINE WAS SURVEYED ON SEPTEMBER 1-3, 2021.
22. MEAN HIGH WATER LINE WAS LOCATED UTILIZING GPS.
23. BUILDINGS, FENCES, AND DOCKS SHOWN ON ADJACENT PROPERTY ARE TAKEN FROM AERIAL PHOTOGRAPHY/LIDAR PROVIDED BY SAM, LLC.
24. WETLANDS SHOWN HEREON WAS PROVIDED BY TAYLOR ENGINEERING, INC.
25. FLOOD ZONE LINES DEPICTED HEREON WHERE SCALED USING FLOOD MAPS REFERENCED IN FLOOD STATEMENT.
26. THIS SURVEY CONSISTS OF SIX (6) SHEETS AND IS NOT VALID WITHOUT ALL SHEETS.

TAYLOR ENGINEERING, INC.
4300 LEGENDARY DRIVE
SUITE C246
DESTIN, FLORIDA 32541
(850) 460-7040
REGISTRY # 4815

SEAL

ENG

PROJECT TITLE

JOES BAYOU RECREATION AREA
IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

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REVIEWED	REVBY

SHEET TITLE

EXISTING CONDITIONS OVERVIEW

G-6

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Legend:

- SERVICE POLE
- STORM MANHOLE
- POWER POLE
- LIGHT POLE
- WATER METER
- FIRE HYDRANT
- GUY ANCHORS
- SANITARY SEWER MANHOLE
- SANITARY SEWER VALVE
- TEMPORARY BENCHMARK
- SET IRON ROD 1/2" 7191
- FOUND IRON ROD OR PIPE
- FOUND CONCRETE MONUMENT
- FOUND NAIL & DISC
- BIKE RACK
- PARK BENCHES/TABLES
- TELEPHONE SERVICE BOX
- SET NAIL AND DISC 7191
- BACK FLOW PREVENTER VALVE
- SIGN
- SPOT ELEVATION
- EDGE OF WATER
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- CENTERLINE OF R/W
- WETLANDS LINE
- 1' CONTOUR (MINOR)
- 5' CONTOUR (MAJOR)
- UNDERGROUND WATER LINE
- SANITARY SEWER LINE
- WOOD PRIVACY FENCE
- CHAIN-LINK FENCE
- OVERHEAD ELECTRIC LINE
- EDGE OF WOODS
- ASPHALT
- CONCRETE
- GRAVEL
- MILLED ASPHALT
- RIP RAP

Tree Legend:

- OAK TREE
- PINE TREE
- PEAR TREE
- MAGNOLIA TREE
- PALM TREE
- CEDAR TREE
- BIRCH TREE

0 40' 80' 160'

GRAPHIC SCALE
22X34: 1" = 40'
11X17: 1" = 80'

N

LIFT STATION
TOP EL: 4.08

MITERED END SECTION
12" RCP
F/L EL: 2.44

MITERED END SECTION
12" RCP
F/L EL: 2.26

SSMH
TOP EL: 4.08
NW INV.: -2.02 8" PVC
SW INV.: -1.92 8" PVC

MITERED END SECTION
12" RCP
F/L EL: 1.61

MITERED END SECTION
12" RCP
F/L EL: 1.87

BAY COURT
50' PUBLIC R/W

RIPARIAN RIGHTS LINE

SEAGRASS (TYP)

SIDEWALK DRAIN
F/L EL: 3.29

SIDEWALK DRAIN
F/L EL: 3.26

SIDEWALK DRAIN
F/L EL: 3.19

SIDEWALK DRAIN
F/L EL: 3.58

SIDEWALK DRAIN
F/L EL: 3.47

SIDEWALK DRAIN
F/L EL: 3.58

END OF PIPES BURRIED (COULD NOT LOCATE)

SIDEWALK DRAIN
F/L EL: 3.06

SIDEWALK DRAIN
F/L EL: 3.10

SIDEWALK DRAIN
F/L EL: 3.11

30" RCP
F/L EL: -0.76

30" RCP
F/L EL: -0.15

30" RCP
F/L EL: 0.18

CONC. WING WALL

30" RCP
F/L EL: -0.15

LOT 1, BLOCK

LOT 2, BLOCK 2

CHAINED GATE

WETLAND

WOODEN SKIMMER

LOT 3, B

LOT 4, B

LOT 5,

POND

LOT 6, BI

LOT 7, BL

CONCRETE HEADWALL

WOODEN BOARDWALK

MITERED END SECTION
12" PVC F/L EL: 2.86

END OF PIPE NOT FOUND

24" RCP
F/L EL: 1.98

24" RCP
F/L EL: 2.11

SSMH
TOP EL: 5.42
NE INV.: -0.88
SW INV.: -0.78

OHE

E-SWR

WL

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SHEET TITLE

EXISTING CONDITIONS NORTHERN

G-7

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Legend:

- SERVICE POLE
- STORM MANHOLE
- POWER POLE
- LIGHT POLE
- WATER METER
- FIRE HYDRANT
- GUY ANCHORS
- SANITARY SEWER MANHOLE
- SANITARY SEWER VALVE
- TEMPORARY BENCHMARK
- SET IRON ROD 1/2" 7191
- FOUND IRON ROD OR PIPE
- FOUND CONCRETE MONUMENT
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- OVERHEAD ELECTRIC LINE
- EDGE OF WOODS
- ASPHALT
- CONCRETE
- GRAVEL
- MILLED ASPHALT
- RIP RAP

Tree Legend:

- OAK TREE
- PINE TREE
- PEAR TREE
- MAGNOLIA TREE
- PALM TREE
- CEDAR TREE
- BIRCH TREE

WETLAND

WETLANDS LINE

RESUBDIVISION OF KELLY'S ADDITION TO DESTIN, FLORIDA P.B. 2, PG. 62

O.R. 387 DESTIN PARCEL 2)

WOODEN SKIMMER

24" CMP F/L EL: 1.08

ZONE AE (EL 8)

ZONE AE (EL 9)

BEACH DRIVE
100' PUBLIC R/W

STORM INLET TOP : 3.78 (NW) 24" CMP INV. : 1.10

SSMH TOP EL: 3.89 NW INV.: 1.29 (4" PVC) SE INV.: 1.19 (8" PVC)

MITERED END SECTION F/L EL: 2.13

MITERED END SECTION F/L EL: 2.07

CONC. HEADWALL F/L EL: 1.67

00-2S-22
OWNER:
O.R. 2

CONC. WING WALL F/L (12"RCP) EL: 1.88

FIRST STREET
100' PUBLIC R/W

24" RCP F/L EL: 0.66

24" RCP F/L EL: 0.85

GAS MARKER POST

SSMH TOP EL: 5.09 NE INV.: 1.39 (8" PVC) W INV.: 1.59 (4" PVC) S INV.: 1.57 (4" PVC)

STORM INLET TOP EL: 3.01 INV.: 1.86

STORM INLET TOP : 3.86 (NW) 12" RCP INV. : 1.56 (SW) 18" CMP INV. : 1.51 (NE) 18" CPP INV. : 1.31 (SE) 18" CPP INV. : 1.36

SMH COVERED BY ASPHALT COULD NOT ACCESS

ZONE AE (EL 8)

ZONE AE (EL 7)

SSMH TOP EL: 4.42 NW INV.: 1.29 SE INV.: 1.19

STORM INLET TOP : 4.10 (NW) 24" CMP INV. : 1.10 (SW) 24" CMP INV. : 1.10 (NE) 24" RCP INV. : 0.65 (SE) 3X 6" PVC's INV. : 2.3

24" CMP

24" RCP

0 40' 80' 160'

GRAPHIC SCALE
22X34: 1" = 40'
11X17: 1" = 80'

N

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EXISTING CONDITIONS SOUTHERN

G-8

POND
GALVANIZED PIPE ON CONC. WALL
SEAGRASS (TYP)
ZONE AE (EL 10)
ZONE AE (EL 9)
GALVANIZED PIPE ON WALL RUNS INTO GROUND
ASPHALT
CONCRETE RETAINING WALL
WOOD RETAINING WALL
ZONE X
MOORING PIN
END OF GALVANIZED PIPE
LOT 14, BLOCK 2
MITERED END SECTION F/L EL: 2.9 (24" RCP)
MITERED END SECTION F/L EL: 1.5
SEE DETAIL
340.1'
358.8'
LIFT STATION TOP EL: 3.57 INV.: 2.69 (4" PVC) END UNKNOWN
CONCRETE MEMORIAL AND FLAGPOLE
WOODEN GAZEBO
MITERED END SECTION F/L EL: 2.25 (24" RCP)
MITERED END SECTION F/L EL: 2.39
WOODEN DOCK (TYPICAL)
BROKEN CONCRETE
F/L (24" RCP) EL: 0.11
WOODEN DOCK (TYPICAL)
50' R/W AS SHOWN ON PLAT OF RESUBDIVISION OF KELLYS ADDITION
RIPARIAN RIGHTS LINE
STORM INLET TOP :3.18 INV. :1.03
STORM INLET UNDER ASPHALT ACCORDING TO PLANS BY CITY OF DESTIN PROJECT # EN-06-02
OHE

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Tree Legend:

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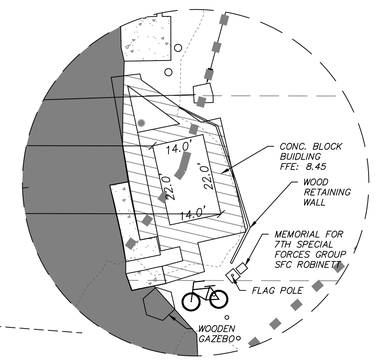

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SHEET TITLE

EXISTING CONDITIONS EASTERN

G-9

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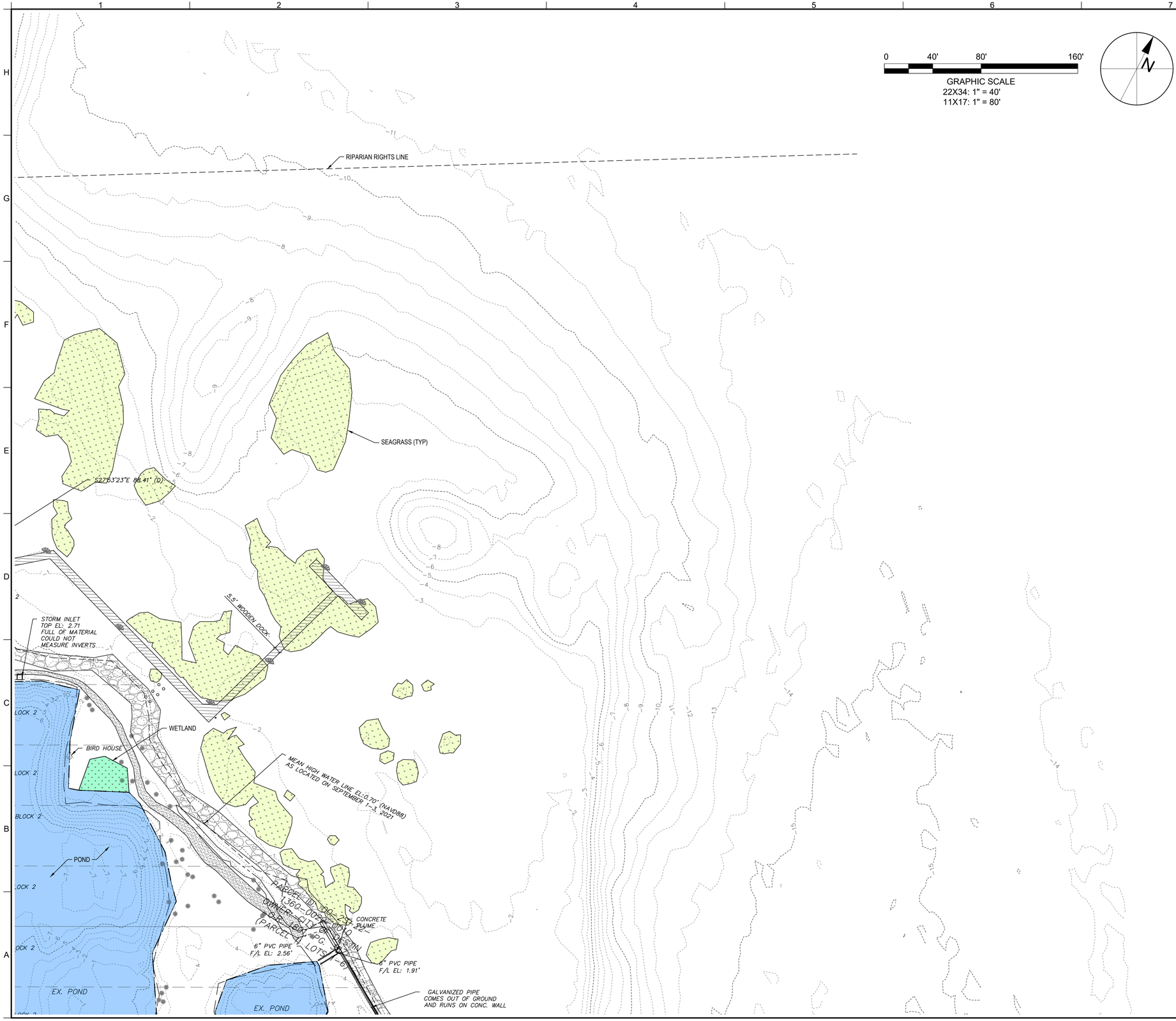

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- MILLED ASPHALT
- RIP RAP

Tree Legend:

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- PEAR TREE
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EXISTING CONDITIONS NORTHEASTERN

G-10

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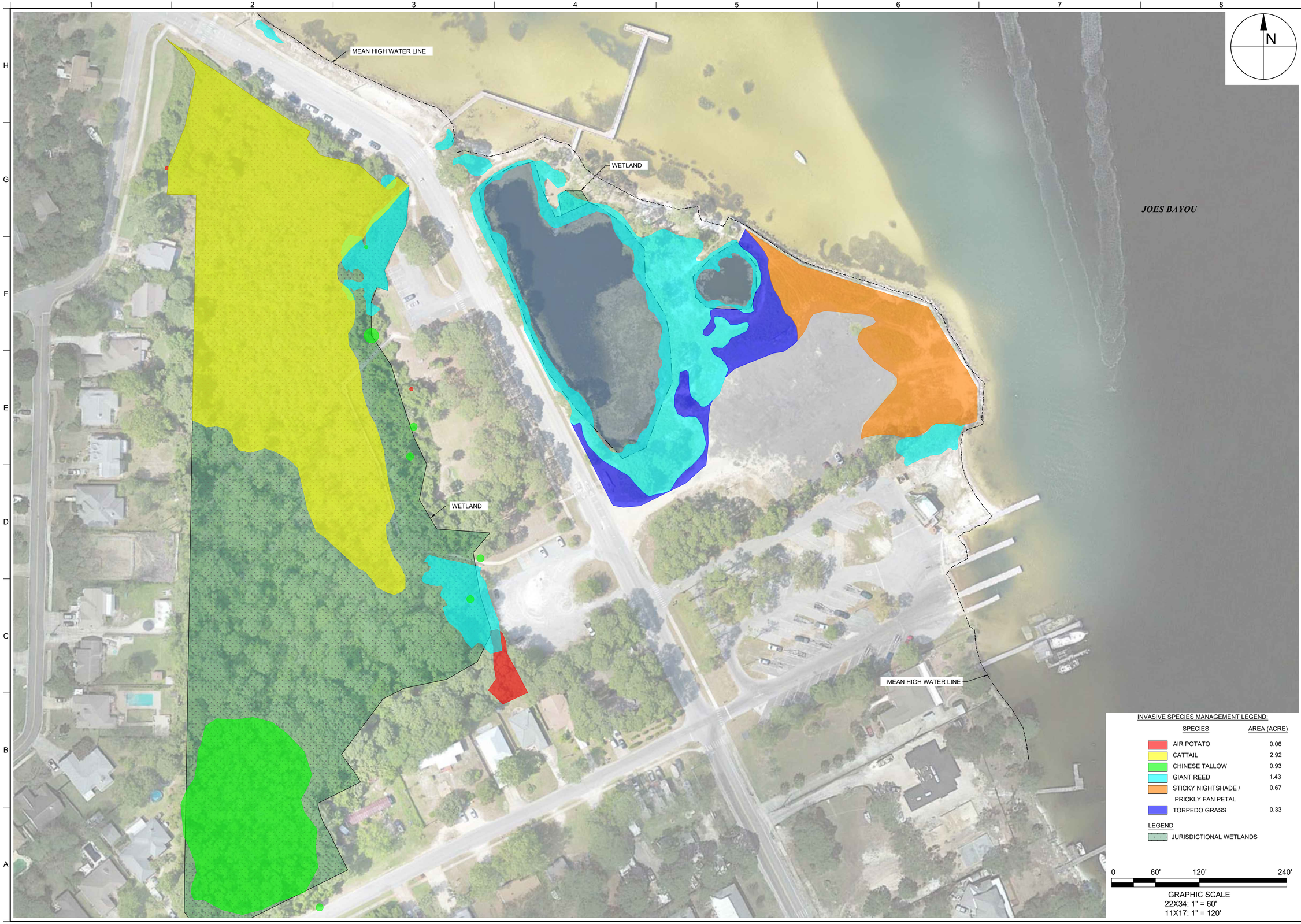

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SEE SHEET C-2 FOR GENERAL NOTES. THIS PAGE NOT VALID WITHOUT SHEET C-2

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SHEET TITLE

INVASIVE SPECIES MANAGEMENT PLAN

G-11

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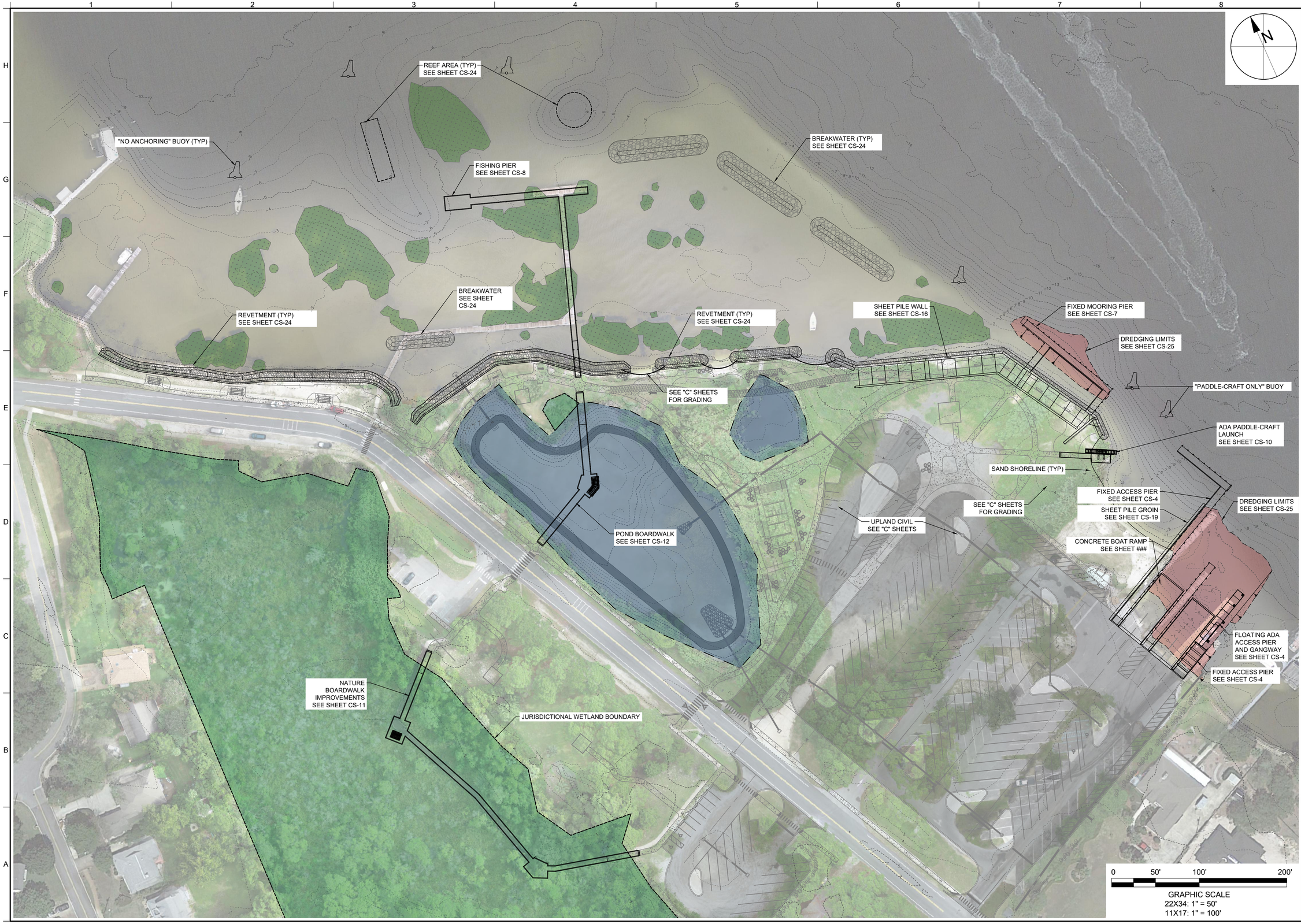

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SHEET TITLE

WATERFRONT
STRUCTURES
OVERVIEW

CS-1

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LOAD AND DESIGN CRITERIA

DEAD LOAD: SELF WEIGHT

LIVE LOAD: 60 PSF

HANDRAIL: 50 LB/LF; 200 LB POINT LOAD

WIND CRITERIA (ASCE 7-22):

BASIC WIND SPEED: 138 MPH

RISK CATEGORY: I

WAVE CRITERIA (STONE STRUCTURES):

1. STORM EVENT: 50-YR RETURN-PERIOD
2. WAVE HEIGHT (H_{DESIGN}): 4.1 FT; PERIOD 3.3 SEC
3. WIND SPEED: 91 MPH, 1-MIN SUSTAINED
4. WATER SURFACE ELEVATION: +6.8 FT NAVD 88 (MAX)

WAVE CRITERIA (PIERS AND WALLS):

5. STORM EVENT: 25-YR RETURN-PERIOD
6. WAVE HEIGHT STONE (H_{DESIGN}): 3.6 FT; PERIOD 3.1 SEC
7. WIND SPEED: 79 MPH, 1-MIN SUSTAINED
8. WATER SURFACE ELEVATION: +6.8 FT NAVD 88 (MAX)
9. FISHING PIER
   a. UPLIFT: 90 PSF
   b. LATERAL: 108 PSF
10. MOORING PIER, BOAT RAMP PIERS, FLOATING DOCK, AND ADA-ACCESSIBLE PADDLE CRAFT LAUNCH
    a. UPLIFT: 120 PSF
    b. LATERAL: 108 PSF
11. POND AND NATURE BOARDWALK
    a. UPLIFT: 30 PSF
12. SEAWALL AND GROIN
    a. LATERAL: 100 PSF

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE AND OTHER LOCAL REQUIREMENTS.

CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION

ENVIRONMENT

1. EXTREMELY AGGRESSIVE ENVIRONMENT (SALT WATER)
2. CONTRACTOR SHOULD ANTICIPATE PILE DRIVING CONDITIONS AS DESCRIBED BY THE GEOTECHNICAL INVESTIGATIONS. SEE TECHNICAL SPECIFICATIONS SECTION 02 32 00.

AS-BUILT SURVEY REQUIREMENTS

1. FINAL EXTENTS AND ELEVATIONS OF ALL CONSTRUCTED OR ALTERED ELEMENTS.
2. INTERIM SURVEYS FOR PAYMENT ARE REQUIRED FOR PILES, STONE STRUCTURES, GRADING, AND DREDGING.
3. SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

STORAGE, DELIVERY, AND HANDLING

1. MATERIALS SHALL BE DELIVERED TO THE SITE IN UNDAMAGED CONDITION, STORED IN FULLY COVERED, WELL VENTILATED AREAS, AND PROTECTED FROM EXTREME CHANGES IN TEMPERATURE AND HUMIDITY UNTIL INSTALLATION.
2. STORE TIMBER AND COMPOSITE MATERIALS ON A FLAT AND LEVEL SURFACE. ADJUST SUPPORT BLOCKS ACCORDINGLY
3. WHEN STACKING COMPOSITE MATERIAL BUNDLES, SUPPORTS SHOULD START AT EACH END AND BE SPACED 2 FT ON CENTER. SUPPORTS SHOULD ALIGN VERTICALLY.
4. DO NOT STACK COMPOSITE MATERIALS THAN 6 BUNDLES ON 12' HIGH.
5. COMPLY WITH COMPOSITE MANUFACTURER'S RECOMMENDATIONS FOR STORAGE, TRANSPORT, HANDLING, AND CLEANING OF COMPOSITE PRODUCTS.

GENERAL DEMOLITION NOTES

1. EXISTING PILES TO BE DEMOLISHED SHALL BE CUT NEAR THE MUDLINE OVER EXISTING SEAGRASS.
2. EXISTING PILES TO BE DEMOLISHED SHALL BE CUT NEAR THE MUDLINE OR EXTRACTED OVER WETLANDS OR CLEAR BOTTOM.
3. TURBIDITY AND EROSION CONTROLS SHALL BE PLACED AROUND THE WORK AREA AS REQUIRED BY PERMITS. TURBIDITY CURTAINS AND/OR SILT FENCES SHALL BE LOCATED AND REPOSITIONED BY THE CONTRACTOR USING BEST MANAGEMENT PRACTICES TO ASSURE WATER QUALITY STANDARDS ARE MAINTAINED THROUGHOUT CONSTRUCTION. CONTRACTOR MUST PERFORM PROPER INSTALLATION AND MONITORING IN ACCORDANCE WITH THE PERMITS.
4. DEMOLITION OF EXISTING IN-WATER FEATURES SHALL BE WATER-BASED TO THE GREATEST EXTENT PRACTICAL. IF NEARSHORE WATER DEPTHS PRECLUDE WORK VESSEL ACCESS, CONTRACTOR MAY USE LOW-PRESSURE TRACK EQUIPMENT TO ACCESS SHALLOW DEPTHS WITH APPROVAL FROM THE ENGINEER.
5. DEMOLITION OF EXISTING PIERS SHALL PROGRESS SEQUENTIALLY, BEGINNING AT THE SEAWARD-MOST POINT AND PROCEEDING TO THE LANDWARD-MOST POINT. DECONSTRUCTION SHALL START WITH REMOVAL OF HANDRAILS, DECKING, JOISTS, AND PILE CAPS, FOLLOWED BY CUTTING ALL EXISTING PILES AT THE MUDLINE TO MINIMIZE DISTURBANCE TO SUBMERGED AQUATIC VEGETATION.
6. DEMOLITION ASSOCIATED WITH THE MATTIE KELLY PARK BOARDWALK SHALL BE LAND-BASED AND, TO THE EXTENT PRACTICAL, ALL WORK SHALL BE CONDUCTED FROM THE EXISTING STRUCTURE TO AVOID UNPERMITTED IMPACTS TO ADJACENT WETLANDS.
7. DEMOLITION ASSOCIATED WITH THE MATTIE KELLY PARK BOARDWALK SHALL PROCEED SEQUENTIALLY, STARTING AT THE POINT WITHIN THE WETLANDS FURTHEST FROM THE PARKING LOTS AND THEN PROCEEDING NORTH/SOUTH TO THE NEAREST PARKING LOT.
8. DEMOLITION OF THE EXISTING MATTIE KELLY BOARDWALK MAY NOT PROCEED UNTIL PILE INSTALLATION ASSOCIATED WITH THE BUMPOUTS HAS BEEN COMPLETED.
9. DEMOLITION OF THE EXISTING SEAWALL SHALL BE LIMITED TO THAT WHICH IS NECESSARY TO ACCOMMODATE INSTALLATION OF THE NEW SEAWALL, OTHERWISE IT IS TO REMAIN IN PLACE.
10. DEMOLITION OF THE EXISTING BOAT RAMP SHALL BE LAND-BASED AND TAKE PLACE AFTER INSTALLATION OF THE TEMPORARY COFFERDAM. REMOVAL IS TO START AT THE SEAWARD MOST POINT OF THE RAMP AND PROCEED BACK TOWARDS LAND.
11. CONTRACTOR SHALL ANTICIPATE DEMOLITION OR REUSE OF THE FULL EXTENTS OF ALL RIPRAP ONSITE. SEE RIPRAP REUSE NOTES.
12. ALL DEBRIS RESULTING FROM DEMOLITION THAT IS NOT TO BE REUSED SHALL BE HAULED OFF-SITE AND DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL AND STATE REGULATIONS.

GENERAL PILE SUPPORTED STRUCTURES NOTES

SEE SECTION 06 13 00 TIMBER OF THE TECHNICAL SPECIFICATIONS.

1. TEMPORARILY DISTRUBED ARES OVER WETLANDS SHALL BE LIMITED TO PROPOSED STRUCTURE FOOTPRINTS WITH A 5 FT OFFSET. LIMIT DISTRUBED AREAS TO THE GREATEST EXTENT PRACTICAL.
2. TREATED TIMBER PILINGS SHALL BE WRAPPED WITH PVC.

TIMBER MATERIALS

SEE SECTION 06 13 00 TIMBER OF THE TECHNICAL SPECIFICATIONS.

1. FRAMING ELEMENTS (UNO)

	CROSS BRACING	PILE CAP (SISTER)	JOIST	RAIL POST	RAILS
FISHING PIER	2X8 ROUGH	3X12	2X12	4X6	2X6 / 2X8
MOORING PIER	2X8 ROUGH	3X10	2X10	4X6	2X6 / 2X8
BOAT RAMP PIERS	2X8 ROUGH	3X10	2X10	4X6	2X6 / 2X8
PADDLE-CRAFT LAUNCH	N/A	3X10	2X10	4X6	2X6 / 2X8
POND BOARDWALKS	2X8 ROUGH	3X10	2X12	4X6	2X6 / 2X8
NATURE BOARDWALK	2X8 ROUGH	3X10	2X12	4X6	2X6 / 2X8
GRADE	NO. 1	NO. 2	NO. 2	NO. 1	NO. 1
TREATMENT	2.5 PCF CCA UC5C	2.5 PCF CCA UC5C	0.60 PCF CCA UC4B	0.60 PCF CCA UC4B	0.60 PCF CCA UC4B
MOISTURE CONTENT (MAX)	25%	25%	25%	25%	19%

2. 2-PLY MEMBERS SHALL BE FASTENED WITH (3) 3" #12 SCREWS ON BOTH SIDES AT EACH SPLICE AND SPACED 24" O.C. STAGGERED ON OPPOSITE SIDES. VISIBLE SCREWS SHALL BE PLUMB, NEAT, AND UNIFORM.

COMPOSITE DECKING AND HANDRAIL MATERIALS

SEE SECTION 06 13 00 TIMBER OF THE TECHNICAL SPECIFICATIONS.

3. HANDRAILS AND DECKING SHALL BE HIGH DENSITY POLY ETHELYENE (HDPE) SYNTHETIC LUMBER AS MANUFACTURERD BY WEARDECK OR OTHER ENGINEER APPROVED EQUIVALENT.
4. THE PRODUCT IS EXTRUDED INTO SHAPES AND SIZES AS FOLLOWS:
   a. COMPOSITE DECKING BOARDS; 1.02 X 5.5" (I.E., 5/4X6)
   b. LENGTHS – 12, 16, AND 20 FEET
   c. COMPOSITE HANDRAIL BOARDS; 1.35 X 9.25" (I.E., 2X10)
   d. LENGTHS – 12, 16, AND 20 FEET
5. EDGES SMOOTH FOR FACE FASTENING
6. COLOR – LIGHT GRAY. TO BE PROPOSED BY CONTRACTOR AND APPROVED BY OWNER.
7. CONTRACTOR SHALL PLACE NON-SLIP PADS 3 FT X 3 FT BENEATH EACH SHOWER HEAD. CONTRACTOR SHALL SUBMIT PRODUCT INFORMATION FOR ENGINEER AND OR ARCHITECT APPROVAL.
8. HDPE SHALL BE UV STABILIZED.
9. ALL FASTENERS SHALL BE 316 STAINLESS STEEL AND APPROVED BY THE MANUFACTURER FOR THE LOADS LISTED HEREIN.

FRP GRATED DECKING

SEE SECTION 06 73 00 FRP GRATED DECKING OF THE TECHNICAL SPECIFICATIONS.

1. DESIGN BASIS: FIBERGRATE MICRO-MESH OR ENGINEER APPROVED EQUIVALENT
2. COLOR LIGHT: GRAY
3. THICKNESS: 1" (MATCH DECKING)
4. MESH PATTERN: SQUARE ¾ X ¾
5. NOMINAL PANEL SIZE: 4'X12'
6. ADA COMPLIANT: YES
7. OPEN AREA: 43% MINIMUM
8. PANEL CLIPS 316 STAINLESS STEEL EACH JOIST, SPACING DETERMINED BY MANUFACTURER TO MEET UPLIFT REQUIREMENTS.

WIRE INFILL PANEL MATERIALS

1. WELDED WIRE INFILL PANELS SHALL HAVE THE FOLLOWING CHARACTERISTICS
   a. 3" X 3" MESH SPACING
   b. MINIMUM WIRE GAUGE 6.25 (MIN. THICKNESS 0.188 IN; 4.78 MM)
   c. MINIMUM TENSILE STRENGTH 60 KSI
2. INFILL PANELS SHALL BE MANUFACTURED IN GENERAL ACCORDANCE WITH ASTM F2919, TYPE 2. PANELS SHALL BE 304 SS IN ACCORDANCE WITH ASTM A276 OR BETTER.
3. PANEL HANGERS/CLIPS AND FASTENERS MUST BE SUFFICIENT FOR THE INTENDED USE AND INCORPORATE FASTENERS THAT DO NOT CAUSE CORROSION. PANEL HANGERS/CLIPS AND FASTENERS SHALL BE 316 STAINLESS STEEL OR AS ACCEPTED BY THE ENGINEER.
4. DAMAGED MATERIALS MAY BE REJECTED BY THE ENGINEER.

HARDWARE

SEE DIVISION 3, 6, AND 35 OF THE TECHNICAL SPECIFICATIONS.

1. ALL BOLTS, ALL-THREAD ROD, WASHERS, AND NUTS SHALL BE 316 STAINLESS STEEL UNLESS NOTED OTHERWISE. BOLTS AND ALL-THREAD ROD SHALL CONFORM TO ASTM A193 B8M CLASS 1 HAVING A MINIMUM TENSILE STRENGTH OF 75 KSI FOR BOLTS UP TO ¾ INCH DIAMETER. NUTS SHALL CONFORM TO ASTM F594. FLAT WASHERS SHALL CONFORM TO ASTM F436.
2. BOLTS AND ALL-THREAD ROD SHALL BE INSTALLED WITH A WASHER AND LOCK WASHER AT EACH END. FASTENER SIZES ARE PRESENTED ON CONSTRUCTION DRAWINGS. ALL WASHERS SHALL HAVE 0.177" MINIMUM THICKNESS.
3. ALL SIMPSON STRONG-TIE CONNECTORS SHALL BE 316 STAINLESS STEEL AND FASTENED WITH NAILS, UNO. CONTRACTOR SHALL FASTEN PER MANUFACTURER'S RECOMMENDATIONS.
4. DECK SCREWS SHALL BE 2 3/4" LONG #10, 316 STAINLESS STEEL, INSTALLED FLUSH. CAP HEAD PER RECOMMENDATION OF THE COMPOSITE DECKING MANUFACTURER. USE STONGTIE DCU OR EQUIVALENT.
5. PREDRILL NEATLY FOR ALL FASTENERS PRIOR TO HARDWARE INSTALLATION.
6. NAILS SHALL BE RING-SHANK AND NOT SMOOTH.
7. STAINLESS STEEL FASTENERS, AND MISCELLANEOUS HARDWARE MEETING THE SPECIFIED MINIMUM STRENGTHS OUTLINED HEREIN AND SHALL CONFORM TO ASTM A240, A276, OR A666. WHERE WELDED, STAINLESS STEEL SHALL BE 316L.

GENERAL RIPRAP NOTES

SEE SECTION 35 31 00 STONE PLACEMENT FOR SHORELINE STABILIZATION OF THE TECHNICAL SPECIFICATIONS.

1. RIRAP SHALL BE REMOVED, DEMOLISHED, OR REUSED SUCH THAT THE FINAL EXTENTS OF RIPRAP MATCH THE PROPOSED CONDITIONS.
2. THE EXACT LOCATION OF THE RIPRAP SHORE AND TOE PROTECTION FEATURES ARE SUBJECT TO ALTERATION DURING CONSTRUCTION BASED ON RESROUCE LOCATIONS AND SHALL BE BASED ON FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND AS APPROVED BY THE EOR AND OWNER.
3. PLACEMENT OF ARMOR STONE ON OR OVER SEAGRASS OR SALT MARSH SHALL BE AVOIDED. A MINIMUM 3-FT BUFFER SHALL BE MAINTAINED BETWEEN ANY NEW RIPRAP AND ANY SEAGRASS IDENTIFIED AT THE TIME OF CONSTRUCTION.

GEOTEXTILES

SEE SECTION 35 31 00 STONE PLACEMENT FOR SHORELINE STABILIZATION OF THE TECHNICAL SPECIFICATIONS.

1. GEOTEXTILE FABRIC SHALL BE US670 OR ENGINEER APPROVED EQUIVALENT.
2. STRUCTURAL GEOGRID SHALL BE A 2X2 APPERATURE HDPE THAT ACCEPTS APPLIED FORCE IN USE BY POSITIVE MECHANICAL INTERLOCK.
3. STRUCTRUAL GEOGRID SHALL BE MECHANICALLY FASTENED OR WELDED TO THE GEOFABRIC.
4. MINIMUM ROLL SIZE 12 FT WIDE. MINIMUM OVERLAP 3 FT.

RIPRAP REUSE

1. AT THE CONTRACTOR'S DISCRETION, EXISTING CLEAN CONCRETE RIPRAP TO BE DEMOLISHED ONSITE MAY BE REUSED AS FOUNDATION BEDDING STONE IF THE FOLLOWING CONDITIONS ARE SATISFIED.
2. DUE TO THE ASPECT RATIO OF THE EXISTING RIPRAP UNITS, THE DEMOLISHED CONCRETE SHOULD BE CRUSHED OR PUVLARIZED INTO STONE SIZES GENERALLY REPRESENTATIVE OF THE FDOT BEDDING GRADATION:

SIEVE SIZE (IN)	% BY WEIGHT PASSING
12	100
10	70-100
6	60-80
3	30-50
1	0-15

3. CONTRACTOR WILL SUBMIT A CONCRETE REUSE PLAN INDICATING THE SEQUENCING AND METHODS OF CRUSHING, SORTING, TESTING, AND LOCATIONS FOR FINAL USE.
4. CONTRACTOR WILL SUBMIT A REPORT INDICATING A REPRESENTATIVE ACHIEVED BEDDING GRADATION PREPARED BY A LICENSED ENGINEER.
5. MATERIALS ARE FREE OF SEDIMENTS, DEBRIS, TOXINS, AND ANY OTHER DELETERIOUS SUBSTANCES.
8. MATERIALS ARE FREE OF REINFORCING STEEL.
9. MATERIALS MAY NOT BE USED AS CHINKING STONE.
10. REUSE MATERIALS MUST BE VISUALLY INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO PRODUCTION AND STOCKPILING.

STONE WEIGHT REQUIREMENTS

SEE SECTION 35 31 00 STONE PLACEMENT FOR SHORELINE STABILIZATION OF THE TECHNICAL SPECIFICATIONS.

STONE WEIGHT REQUIREMENTS (LBS)			
STRUCTURE	ARMOR	CORE	BEDDING AND CHINKING
REVETMENT	W_{MIN} = 150 W_{50} = 550 W_{MAX} = 690	--	FDOT BEDDING
BREAKWATERS		FDOT BEDDING	FDOT BEDDING
SEAWALL RIPRAP	W_{MIN} = 90 W_{50} = 150 W_{MAX} = 350		
BOATRAMP RIPRAP			
GROIN RIRPAP	W_{MIN} = 90 W_{50} = 290 W_{MAX} = 670	FDOT BEDDING	FDOT BEDDING

REFERENCE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, FY 2025-2026 (530-2.1.4)

ESTIMATED STONE QUANTITIES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT QUANTITIES NEEDED TO ATTAIN THE INTENT OF THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS.
2. ESTIMATED STONE QUANTITES

ESTIMATED QUANTITIES (CY)				
STRUCTURE PLACEMENT	CUT[1]	BEDDING	CORE	ARMOR
REVETMENT 1	385	177	--	261
REVETMENT 2	199	154	--	332
REVETMENT 3	22	27	--	55
REVETMENT 4	78	43	--	92
BREAKWATER 1	--	91	44	175
BREAKWATER 2	--	85	40	160
BREAKWATER 3	--	80	33	132
BREAKWATER 4	--	39	--	45
RIPRAP SEAWALL	203	76	--	171
RIRAP GROIN	336	84	--	199
RIPRAP BOAT RAMP	--	72	--	144

1. CUT IS LIMITED TO THE PROPOSED STRUCTURE FOOTPRINT. THIS QUANTITY DOES NOT INCLUDE FULL LIMITS OF EXISTING RIPRAP TO BE DEMOLISHED OR REUSED.

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4300 LEGENDARY DRIVE
SUITE C246
DESTIN, FLORIDA 32541
(850) 460-7040
REGISTRY # 4815

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IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

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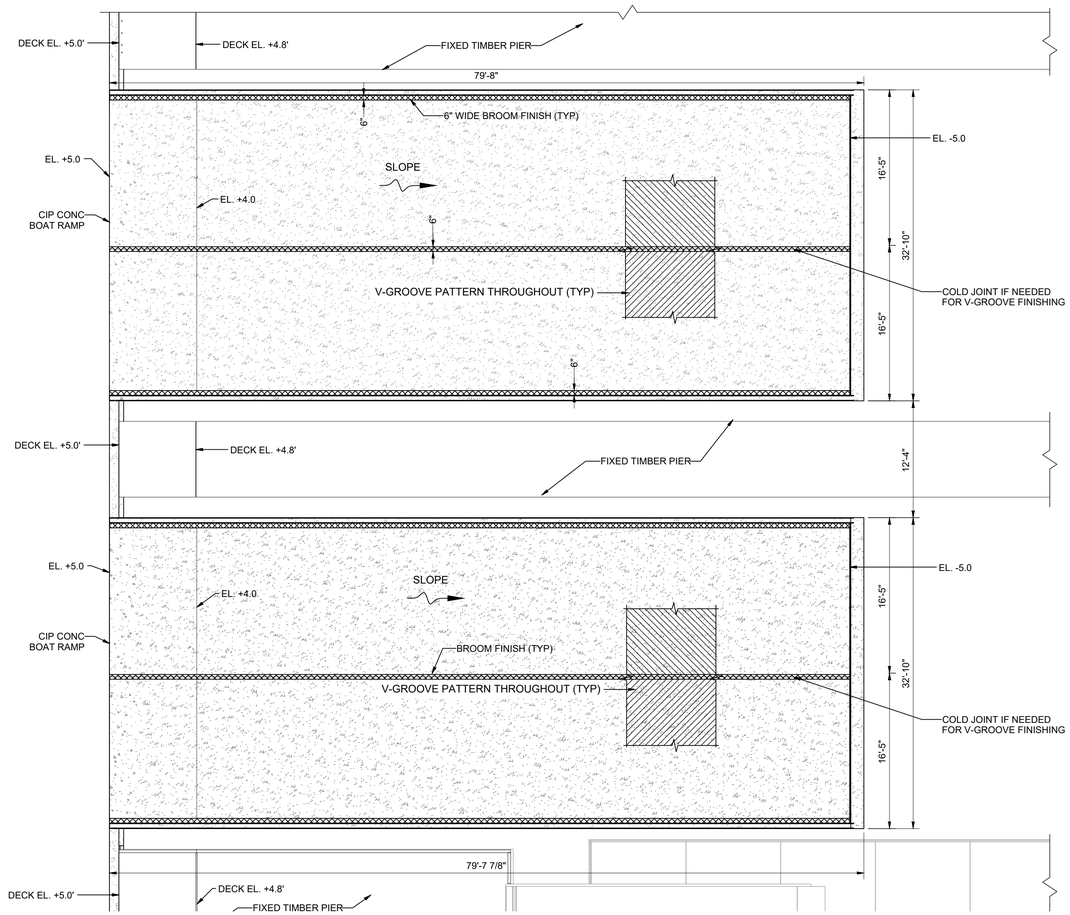
SHEET TITLE

STRUCTURAL NOTES

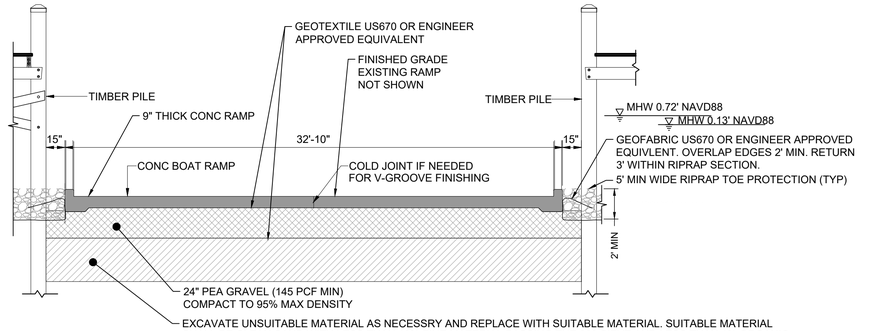
CS-2

PETER JANSEN, 5/14/2026 5:12:39 PM, X:\sys\Projects\C2021-045_JoeBayou\Construction\C2021-045-C-Notes.dwg



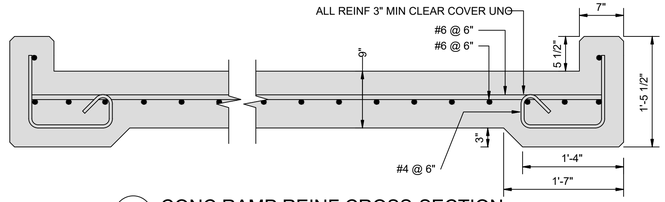
CONC RAMP STRUCTURAL PLAN

SCALE: 1" = 10'



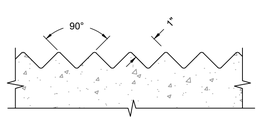
CONC RAMP TYP CROSS-SECTION

SCALE: 1" = 5'



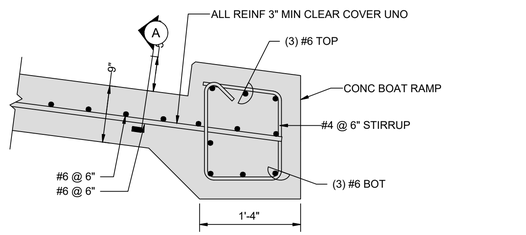
A CONC RAMP REINF CROSS-SECTION

SCALE: 1" = 1'



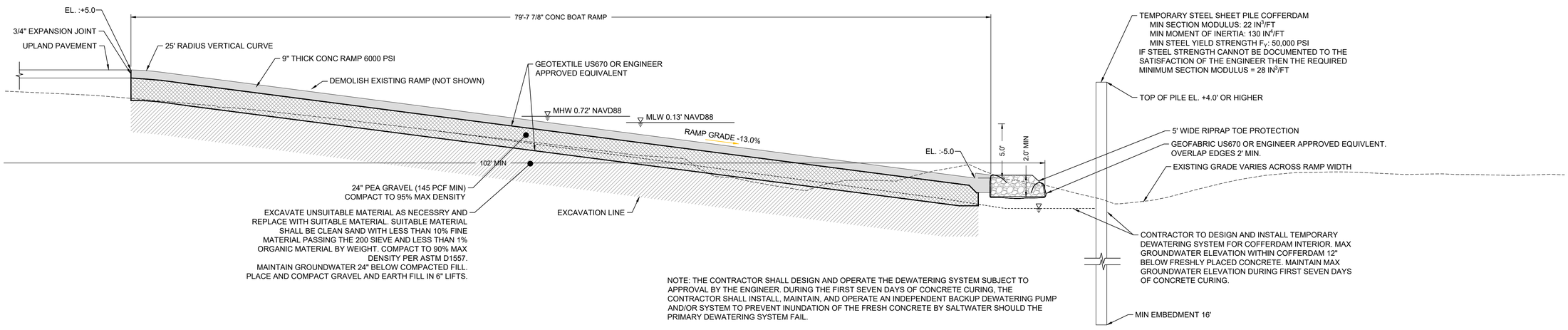
CONC RAMP V-GROOVE FINISH DETAIL

NOT TO SCALE



CONC RAMP GRADE BEAM REINF CROSS-SECTION

SCALE: 1" = 1'



NOTE: THE CONTRACTOR SHALL DESIGN AND OPERATE THE DEWATERING SYSTEM SUBJECT TO APPROVAL BY THE ENGINEER. DURING THE FIRST SEVEN DAYS OF CONCRETE CURING, THE CONTRACTOR SHALL INSTALL, MAINTAIN, AND OPERATE AN INDEPENDENT BACKUP DEWATERING PUMP AND/OR SYSTEM TO PREVENT INUNDATION OF THE FRESH CONCRETE BY SALTWATER SHOULD THE PRIMARY DEWATERING SYSTEM FAIL.

CONC RAMP TYP PROFILE

SCALE: 1" = 5'

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4300 LEGENDARY DRIVE
SUITE C246
DESTIN, FLORIDA 32541
(850) 460-7040
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SHEET TITLE

BOAT RAMP PLAN AND DETAILS

CS-3

PETER JANSEN, 5/14/2026 5:12:45 PM, X:\sys\Projects\c2021-045_JoeBayou\Construction\c2021-045-C-Boat Ramp Detail Plan.dwg

SEE "C" SHEETS FOR GRADING

PILE REQUIREMENTS
14"Ø TIMBER PILE
TIP UP, BUTT DOWN
MIN EMBEDMENT: 19'

GROIN SHEET PILE WALL WITH CONCRETE CAP

RIPRAP (TYP)

CONC FOOTER
SEE TYP FOOTER
CROSS-SECTION, SHEET CS-15

N: 518488.09
E: 1340841.19

DECK EL. +5.0'

2.46%

N: 518481.33
E: 1340844.63

N: 518475.30
E: 1340836.65

0+00 0+20 0+40 0+60 0+80 1+00 1+20 1+40 1+60 1+80 1+93

DECK EL. +4.8'

N: 518511.46
E: 1340907.64

8'-0" TYP

191'-7"

8'-0" DECK WIDTH

5'-2 3/8"

N: 518567.20
E: 1341013.23

N: 518570.64
E: 1341019.98

PILE REQUIREMENTS
14"Ø TIMBER PILE
TIP UP, BUTT DOWN
MIN EMBEDMENT: 22.5'

B5
CS-5

B2
CS-5

DECK EL. +4.8'

7'-7"

N: 518634.43
E: 1340987.49

2+73

N: 518630.98
E: 1340980.74

2+60

HDPE DECKING THROUGHOUT (TYP)

HANDRAIL (TYP)

2+40

8'-0" DECK WIDTH

71'-7"

8'-0" TYP

2+20

SEE DETAIL, SHEET CS-14,
TYP JOIST FRAMING AT
INTERSECTION

DECK EL. +4.8'

HANDRAIL (TYP)

N: 518577.40
E: 1341016.54

7'-7"

2+01

UPLAND CIVIL
(SEE "C" SHEETS)

N: 518448.95
E: 1340861.12

N: 518446.04
E: 1340851.56

DECK EL. +5.0'

2.46%

CONC FOOTER
SEE TYP FOOTER
CROSS-SECTION, SHEET CS-15

N: 518435.05
E: 1340857.15

N: 518441.08
E: 1340865.13

2+66 2+80 3+00 3+20 3+40 3+60 3+80 3+87

DECK EL. +4.8'

112'-0"

N: 518482.20
E: 1340922.54

N: 518471.21
E: 1340928.14

8'-0" DECK WIDTH

8'-0" TYP

N: 518499.78
E: 1340960.92

DECK EL. +4.8'

8'-10"

N: 518491.91
E: 1340964.93

HDPE DECKING THROUGHOUT (TYP)

DREDGE AREA NOT SHOWN

PILE REQUIREMENTS
14"Ø TIMBER PILE
TIP UP, BUTT DOWN
MIN EMBEDMENT CENTER PILES: 25'
MIN EMBEDMENT PILE: 19'

RIPRAP (TYP)

N: 518408.71
E: 1340881.62

ADA CURB

15'-1" DECK WIDTH

N: 518423.23
E: 1340910.14

N: 518441.95
E: 1340943.04

N: 518405.80
E: 1340872.05

DECK EL. +5.0'

2.46%

CONC FOOTER
SEE TYP FOOTER
CROSS-SECTION, SHEET
CS-15

N: 518405.64
E: 1340888.28

3+88 4+00 4+20 4+29

7'-4" 7'-4" 14'-8"

DECK EL. +4.8'

DECK EL. +4.8'

32'-0"

N: 518410.16
E: 1340916.79

FLOATING PIER PILES
ARE APPROXIMATE,
FINAL LOCATIONS PER
SHOP DRAWINGS

FLOATING DOCK PILE REQUIREMENTS
16"Ø STEEL W/ 1" HDPE SLEEVE
MIN EMBEDMENT: 25'
TOP ELEVATION: 13'
FLOATING PIER PILES ARE APPROXIMATE,
FINAL LOCATIONS PER SHOP DRAWINGS

A6
CS-6

B1
CS-6

HANDRAIL (TYP)

HDPE DECKING THROUGHOUT (TYP)

NOTE: MINIMUM EMBEDMENTS ARE AT FINAL GRADE

LEGEND:
- PILE CENTERLINE
- BENT WITH CROSS-BRACING REQUIRED
- BENT WITH CROSS-BRACING NOT REQUIRED (FIELD VERIFY)

0 10' 20' 40'

GRAPHIC SCALE
22X34: 1" = 10'
11X17: 1" = 20'

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SUITE C246
DESTIN, FLORIDA 32541
(850) 460-7040
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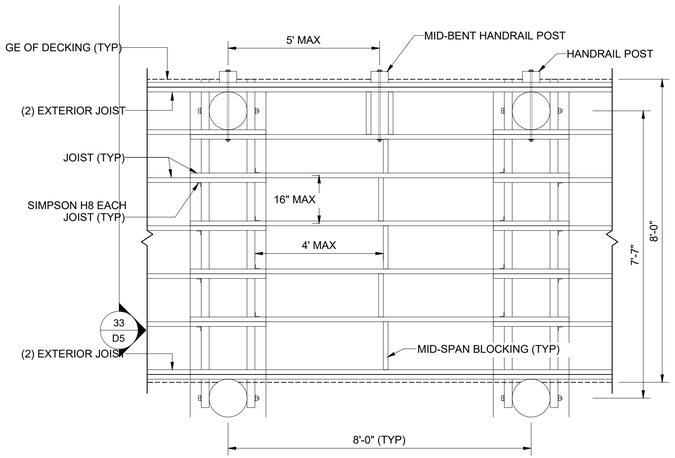
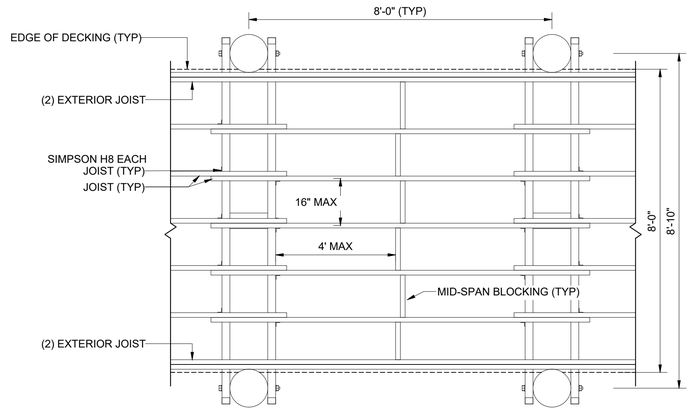
SHEET TITLE

ACCESS PIER PILE PLAN

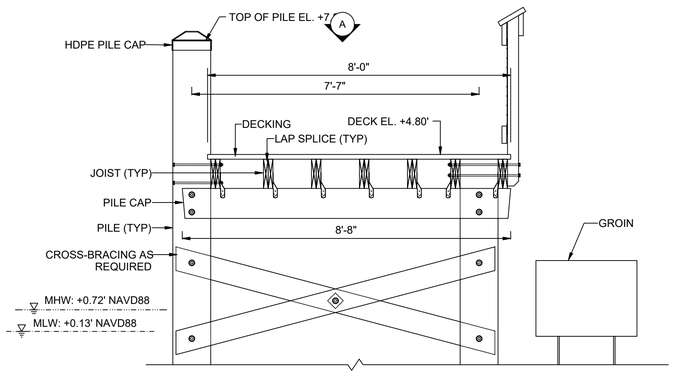
CS-4



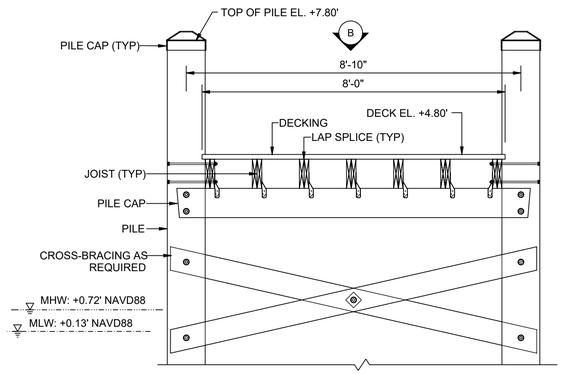
A FRAMING PLAN
SCALE: 1" = 2' 0 2'



B FRAMING PLAN
SCALE: 1" = 2' 0 2'



B2 TYPICAL BOAT RAMP NORTH ACCESS PIER CROSS-SECTION
SCALE: 1" = 2' 0 2'



B5 TYPICAL BOAT RAMP MIDDLE ACCESS PIER CROSS-SECTION
SCALE: 1" = 2' 0 2'

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SUITE C246
DESTIN, FLORIDA 32541
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ACCESS PIER DETAILS

CS-5

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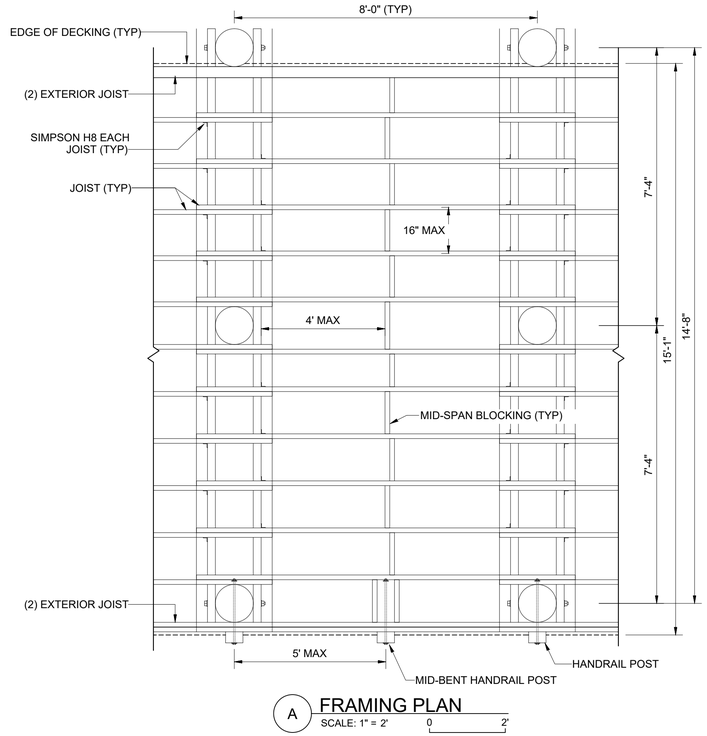
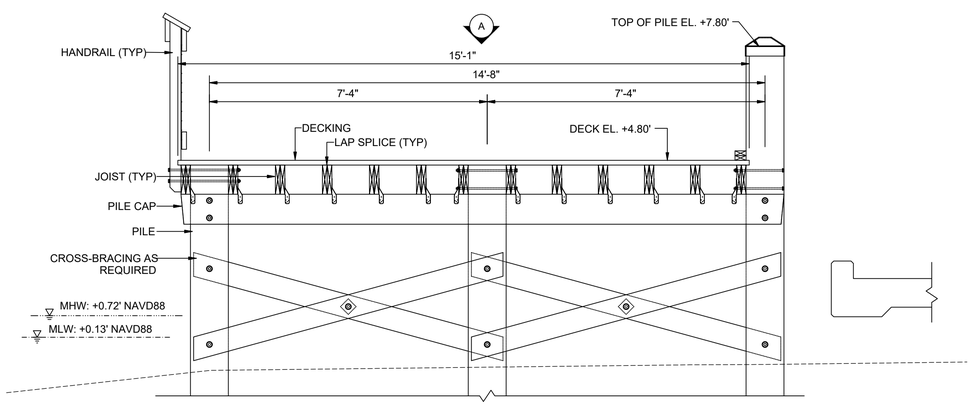
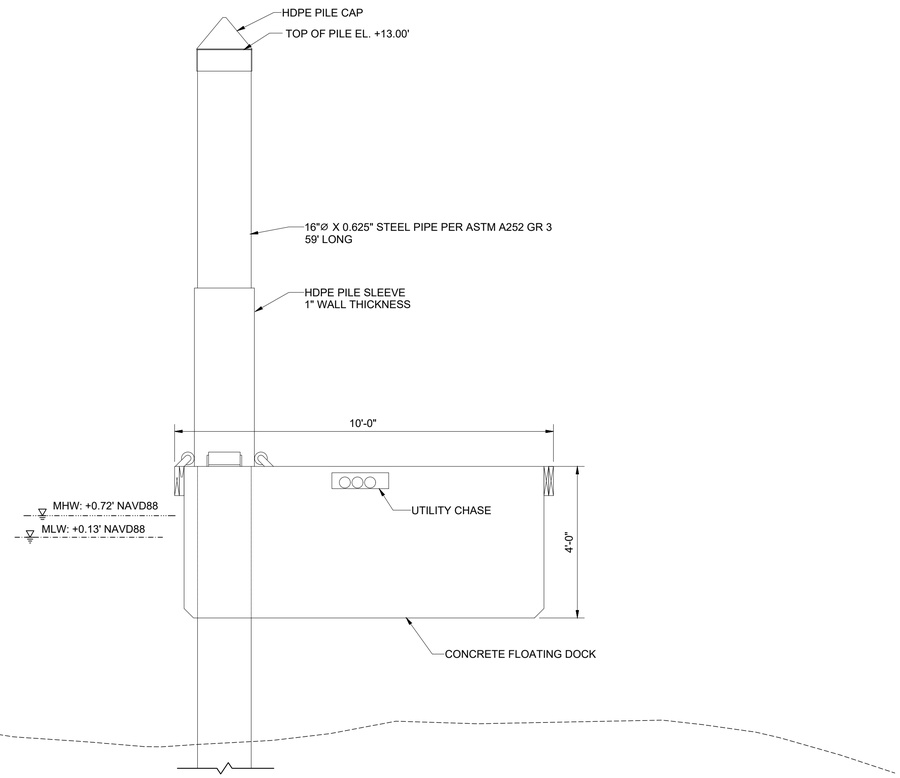


A FRAMING PLAN
SCALE: 1" = 2'



B1 TYPICAL BOAT RAMP SOUTH ACCESS PIER CROSS-SECTION
SCALE: 1" = 2'



A6 TYPICAL FLOATING DOCK CROSS-SECTION
SCALE: 1" = 2'

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SUITE C246
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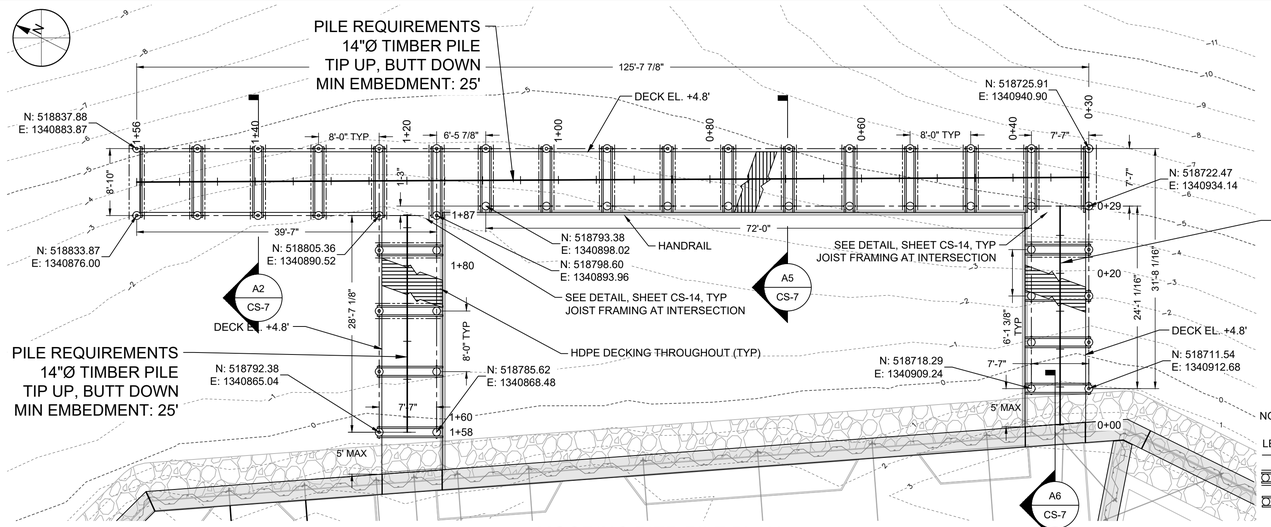
DRAWN	AF
CHECKED	CHECKBY
REVIEWED	REVBY

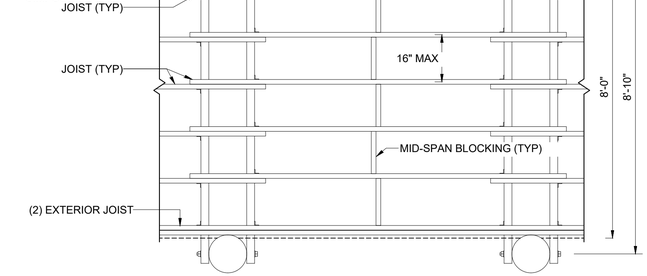
SHEET TITLE
ACCESS PIER DETAILS

CS-6

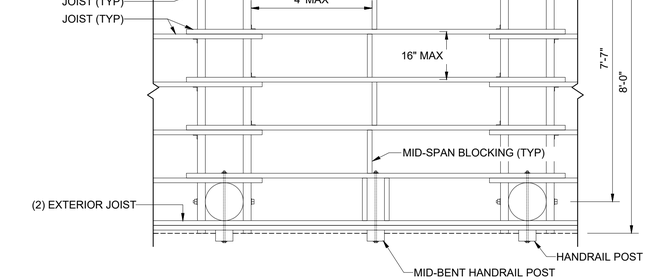
PETER JANSEN, 5/14/2026 9:13:08 PM, X:\sys\Projects\2021-045_JoeBayou\Construction\c2021-045-C-Docks Plan and Profiles.dwg



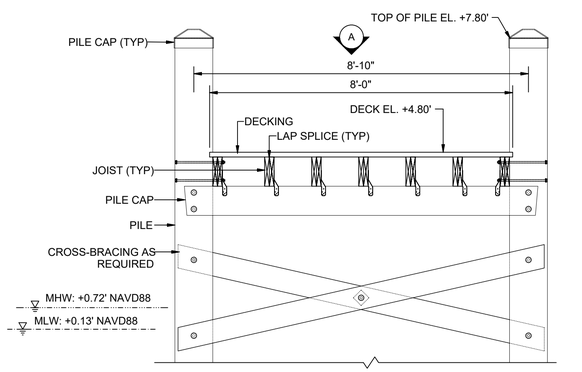
MOORING PIER PILE PLAN
NOT TO SCALE



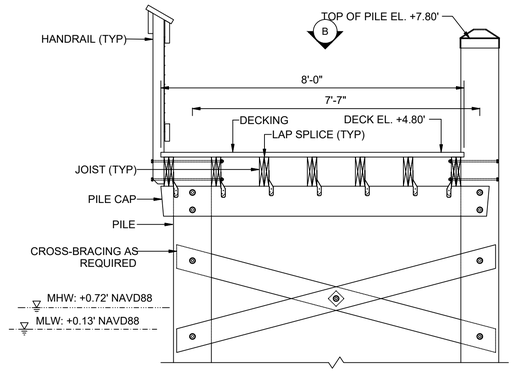
A FRAMING PLAN
SCALE: 1" = 2'



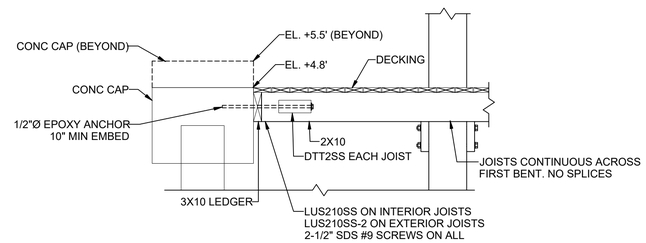
B FRAMING PLAN
SCALE: 1" = 2'



A2 TYPICAL MOORING PIER CROSS-SECTION
SCALE: 1" = 2'



A5 TYPICAL MOORING PIER CROSS-SECTION WITH HANDRAIL
SCALE: 1" = 2'



A6 TYP MOORING PIER TO SEAWALL CONNECTION DETAIL
NOT TO SCALE

TAYLOR
ENGINEERING, INC.
4300 LEGENDARY DRIVE
SUITE C246
DESTIN, FLORIDA 32541
(850) 460-7040
REGISTRY # 4815

SEAL

ENG

PROJECT TITLE
JOES BAYOU RECREATION AREA
IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

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CHECKED	CHECKBY
REVIEWED	REVBY

SHEET TITLE
MOORING PIER PILE PLAN

CS-7

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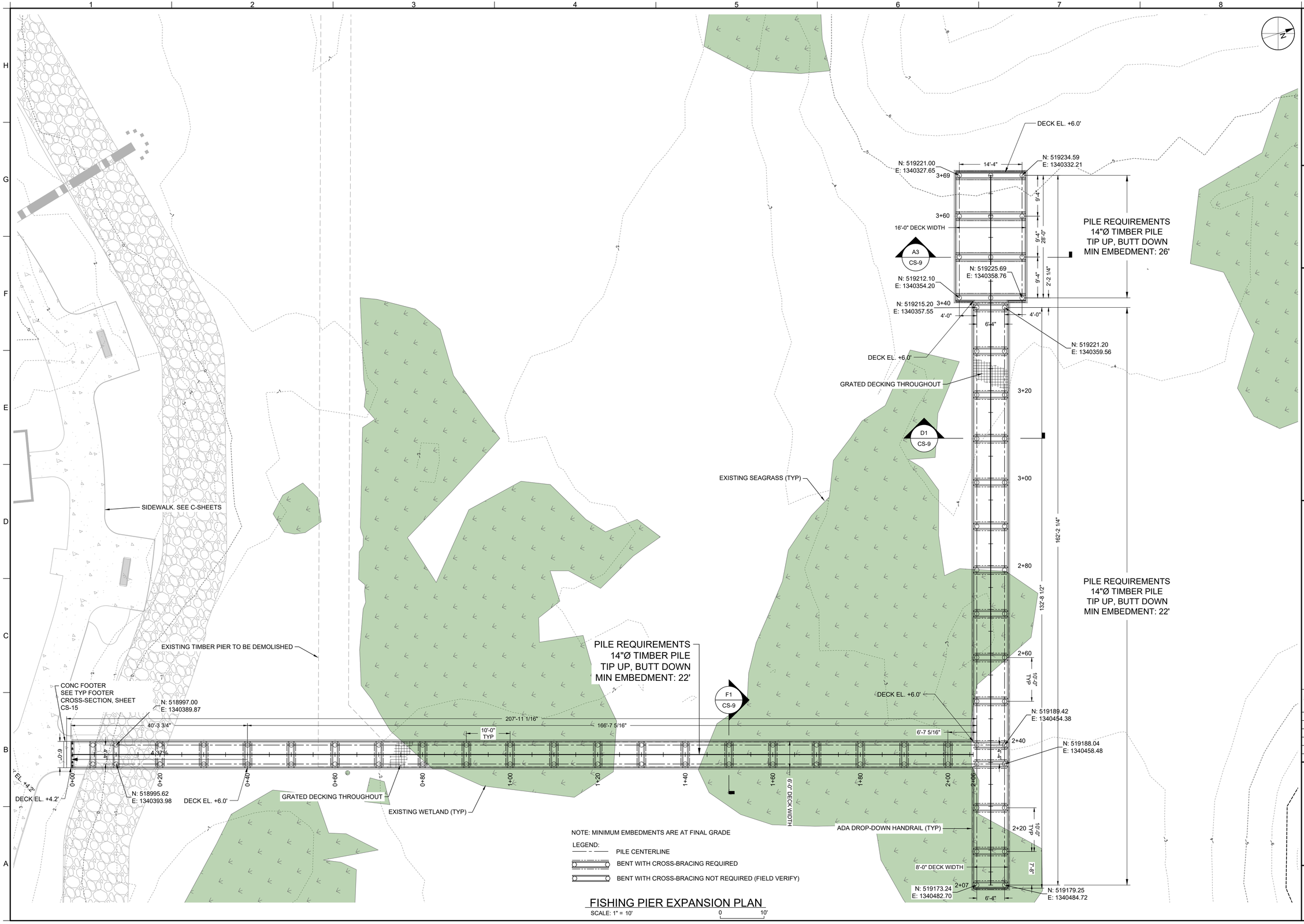

NOTE: MINIMUM EMBEDMENTS ARE AT FINAL GRADE

LEGEND:

- PILE CENTERLINE
- BENT WITH CROSS-BRACING REQUIRED
- BENT WITH CROSS-BRACING NOT REQUIRED (FIELD VERIFY)

FISHING PIER EXPANSION PLAN

SCALE: 1" = 10' 0 10'

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SUITE C246
DESTIN, FLORIDA 32541
(850) 460-7040

REGISTRY # 4815

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FISHING PIER PILE PLAN

CS-8

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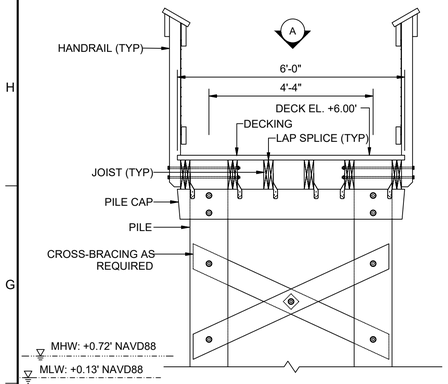
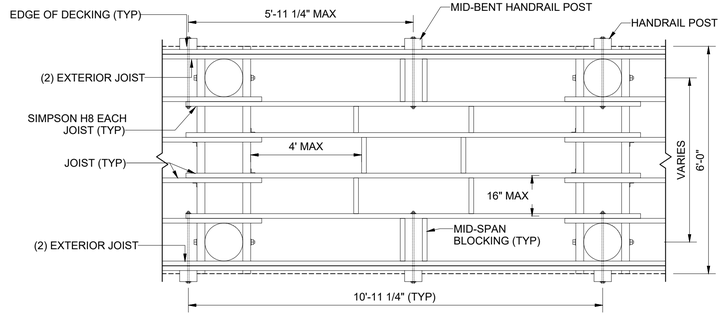


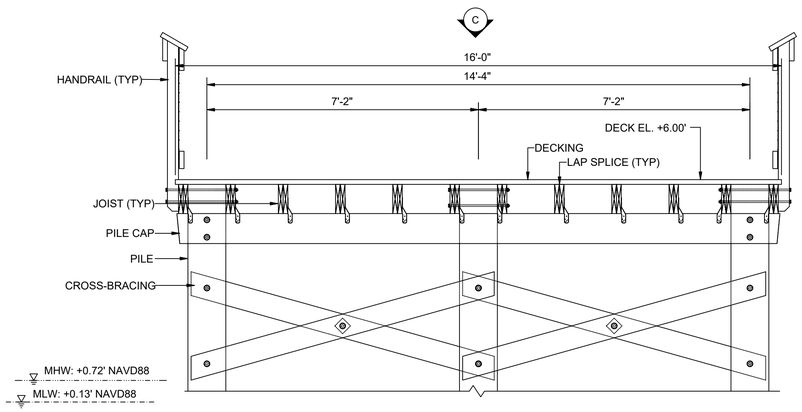
F1 TYPICAL 6-FT WIDE FISHING PIER CROSS-SECTION
SCALE: 1" = 2' 0 2'



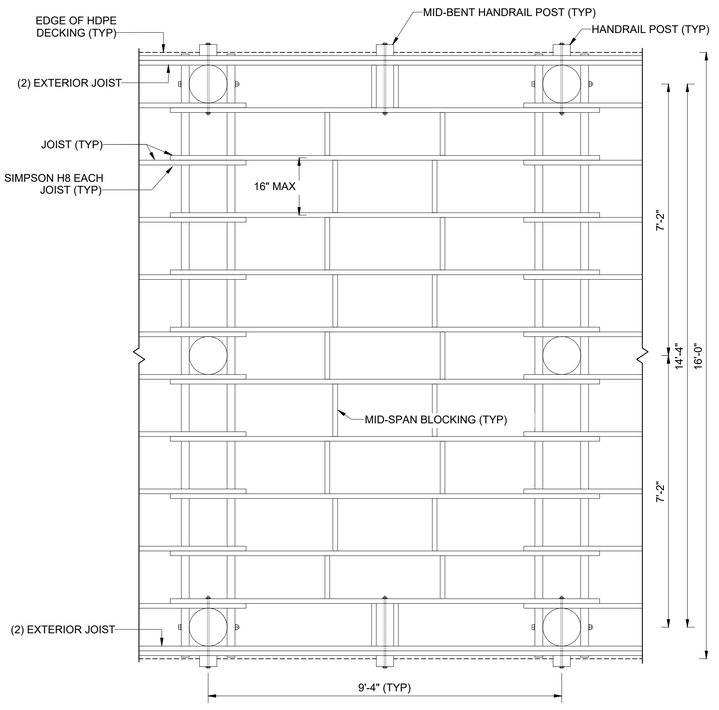
A FRAMING PLAN
SCALE: 1" = 2' 0 2'

D1 TYPICAL 8-FT WIDE FISHING PIER CROSS-SECTION
SCALE: 1" = 2' 0 2'

B FRAMING PLAN
SCALE: 1" = 2' 0 2'



A3 TYPICAL 16-FT WIDE FISHING PIER CROSS-SECTION
SCALE: 1" = 2' 0 2'



C FRAMING PLAN
SCALE: 1" = 2' 0 2'

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SUITE C246
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PROJECT TITLE
JOES BAYOU RECREATION AREA
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SHEET TITLE

FISHING PIER DETAILS

CS-9

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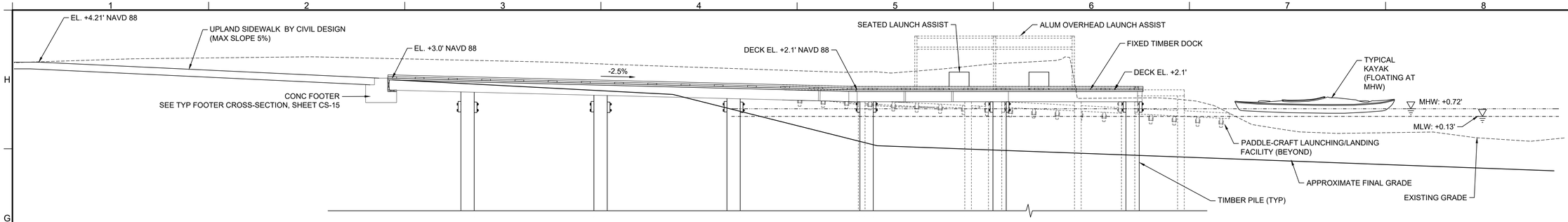
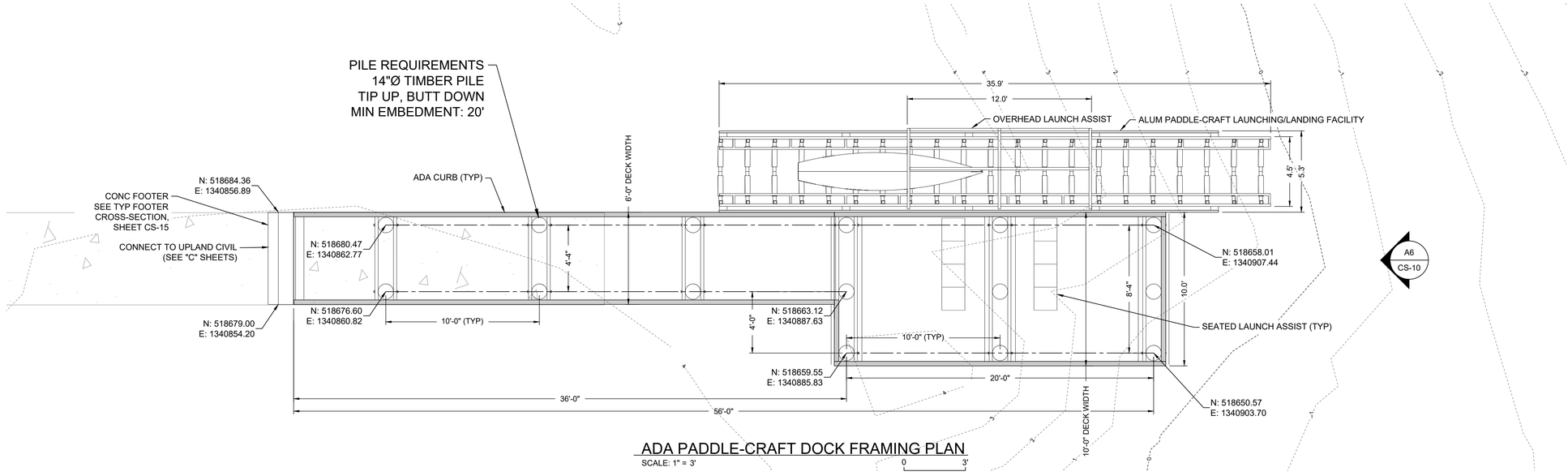


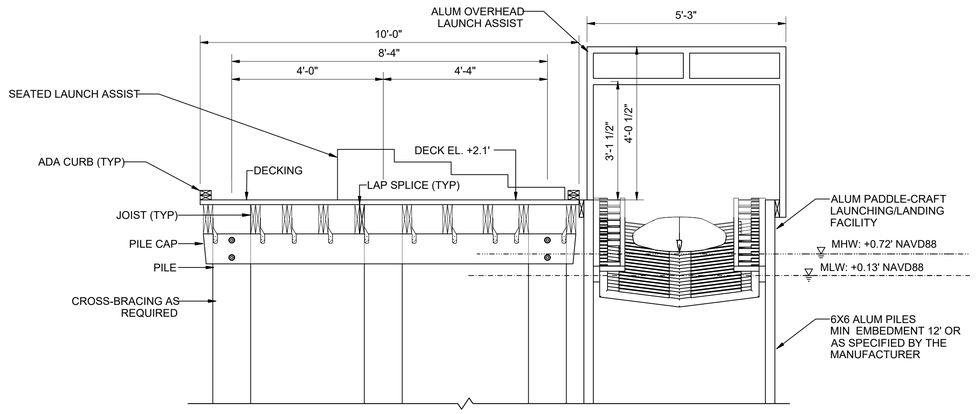
ADA PADDLE-CRAFT DOCK PROFILE

SCALE: 1" = 4'



ADA PADDLE-CRAFT DOCK FRAMING PLAN

SCALE: 1" = 3'



A6 ADA PADDLE-CRAFT DOCK FRONT ELEVATION

SCALE: 1" = 3'

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ADA PADDLE CRAFT LAUNCH PLAN AND DETAILS

CS-10

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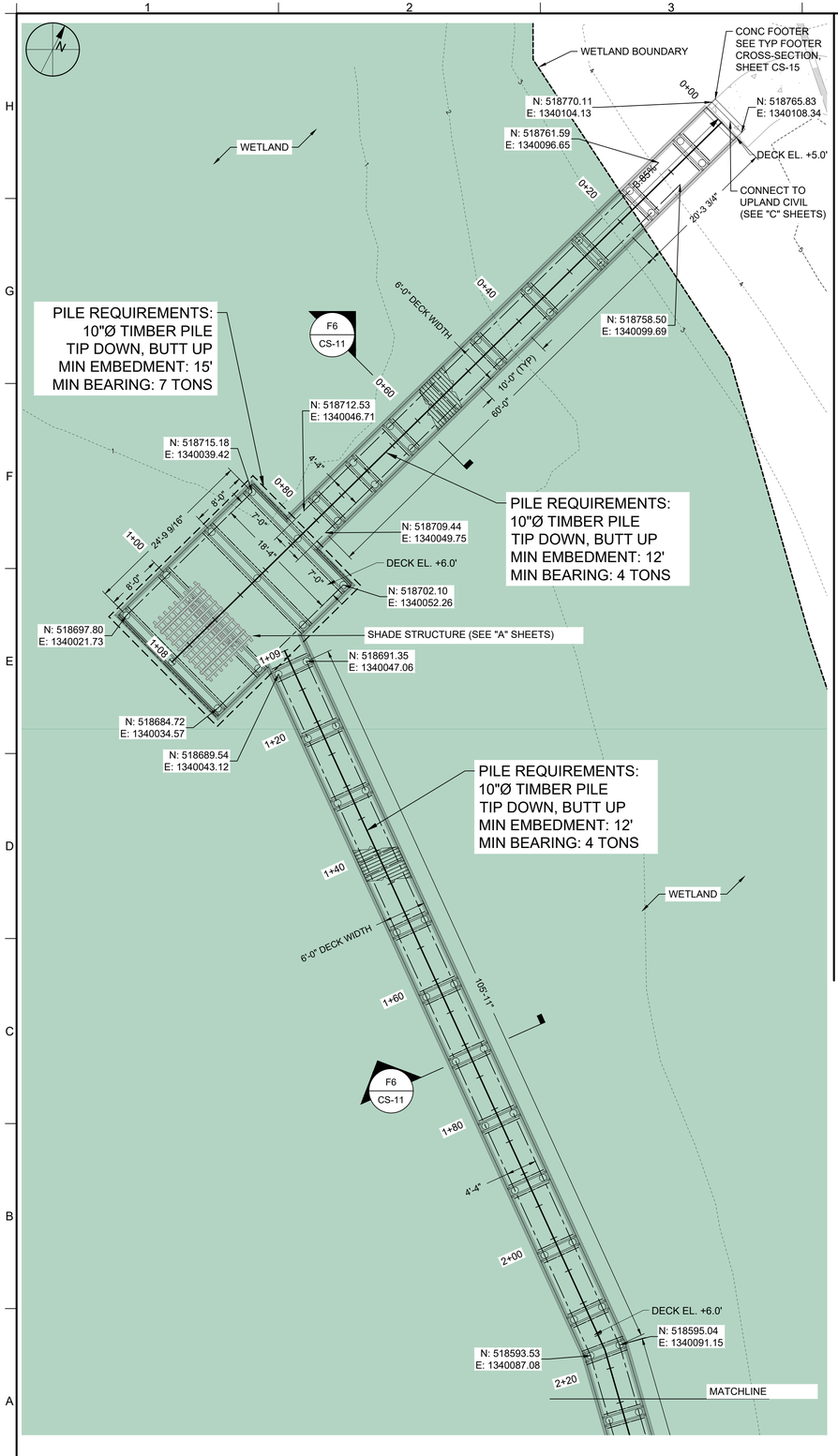

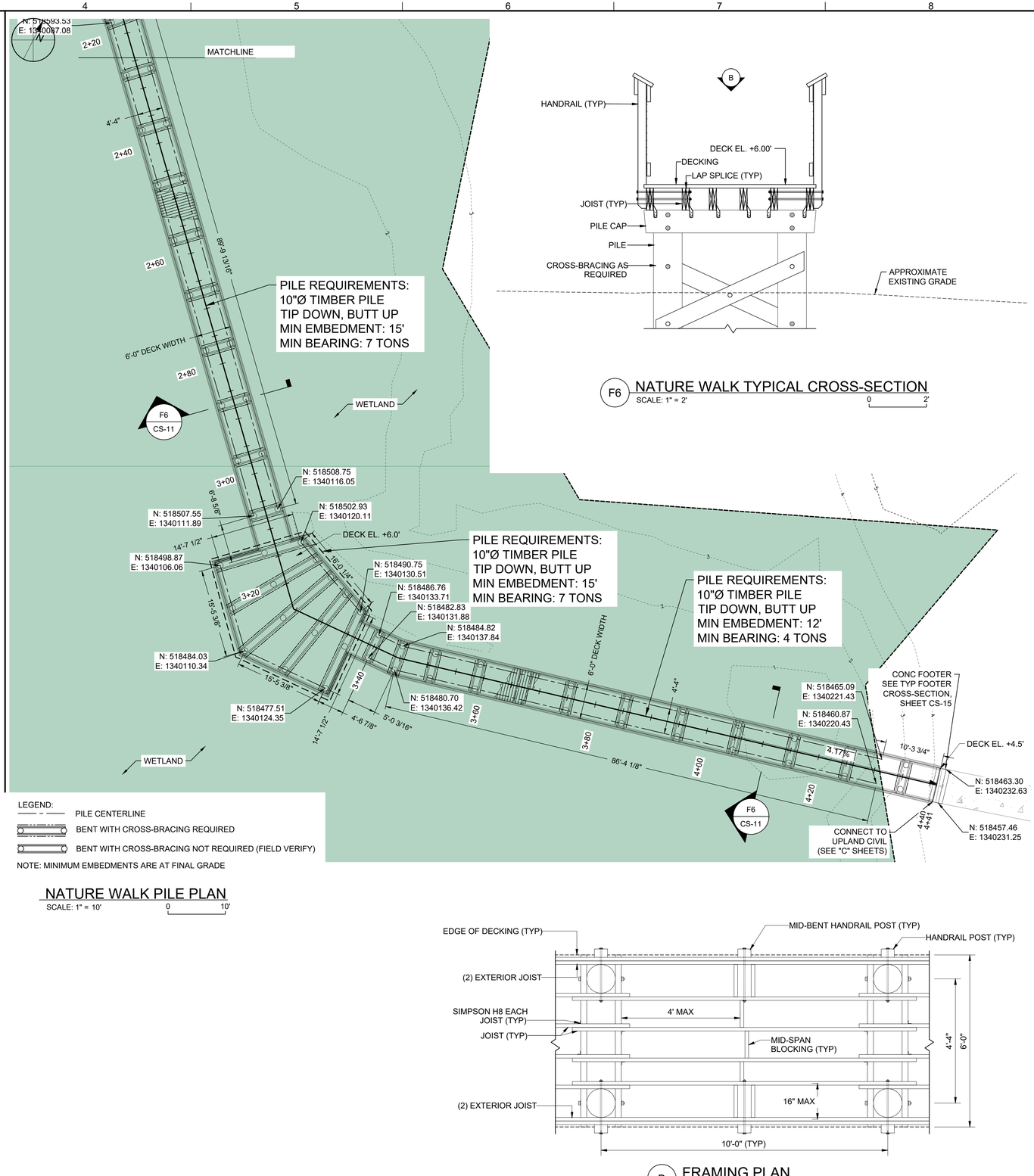

LEGEND:

- PILE CENTERLINE
- BENT WITH CROSS-BRACING REQUIRED
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NOTE: MINIMUM EMBEDMENTS ARE AT FINAL GRADE

NATURE WALK PILE PLAN

SCALE: 1" = 10' 0 10'

F6 NATURE WALK TYPICAL CROSS-SECTION

SCALE: 1" = 2' 0 2'

B FRAMING PLAN

SCALE: 1" = 2' 0 2'

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NATURE WALK PILE PLAN AND DETAILS

CS-11

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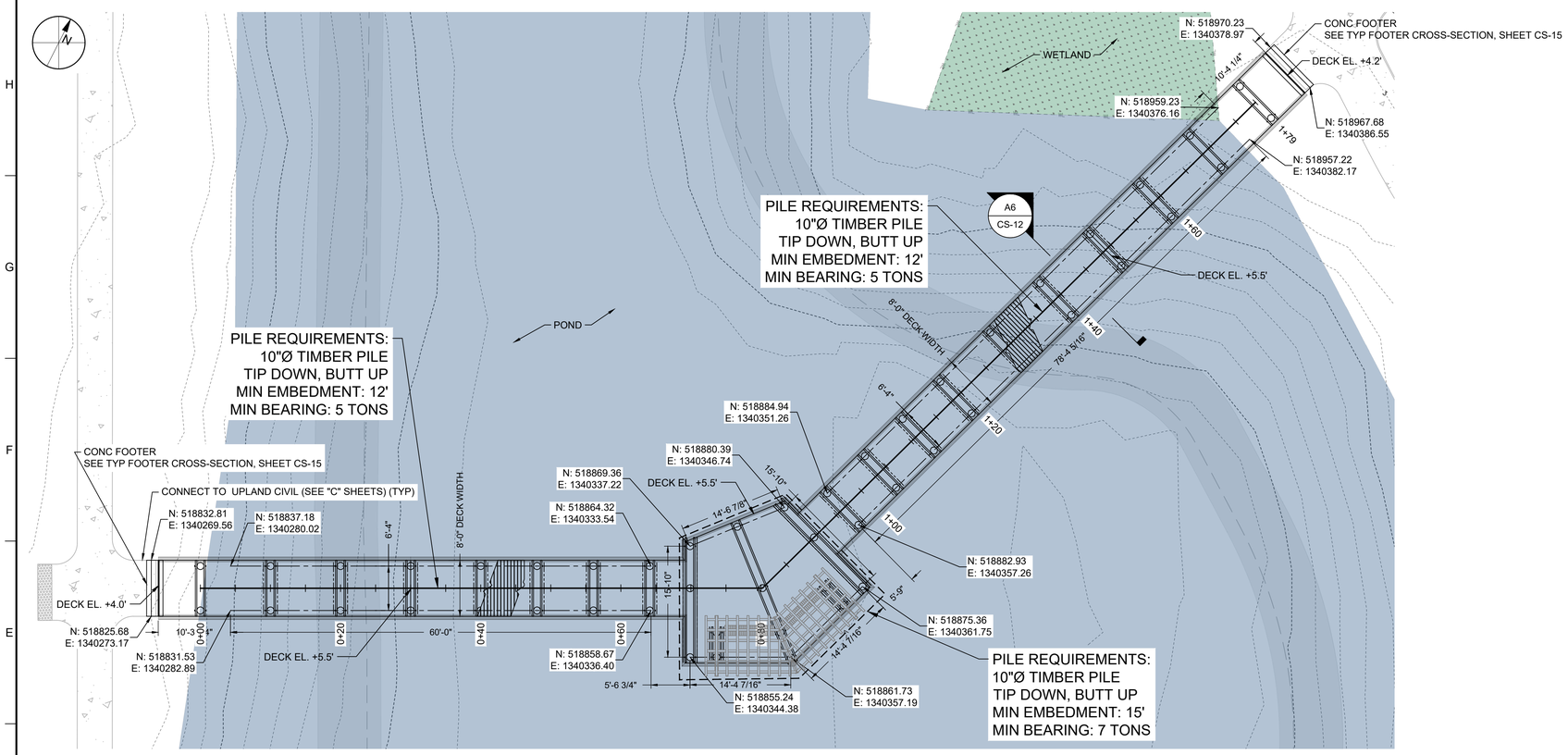

POND BOARDWALK PLAN

SCALE: 1" = 10'

LEGEND:

- PILE CENTERLINE
- BENT WITH CROSS-BRACING REQUIRED
- BENT WITH CROSS-BRACING NOT REQUIRED (FIELD VERIFY)

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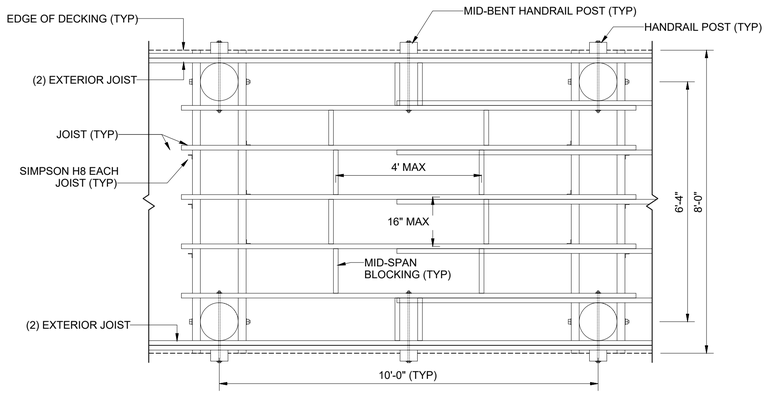
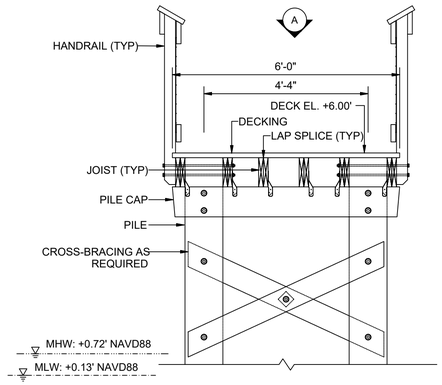


A FRAMING PLAN

SCALE: 1" = 2'



A6 POND BOARDWALK TYPICAL CROSS-SECTION

SCALE: 1" = 2'

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SUITE C246
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POND BOARDWALK PILE PLAN AND DETAILS

CS-12

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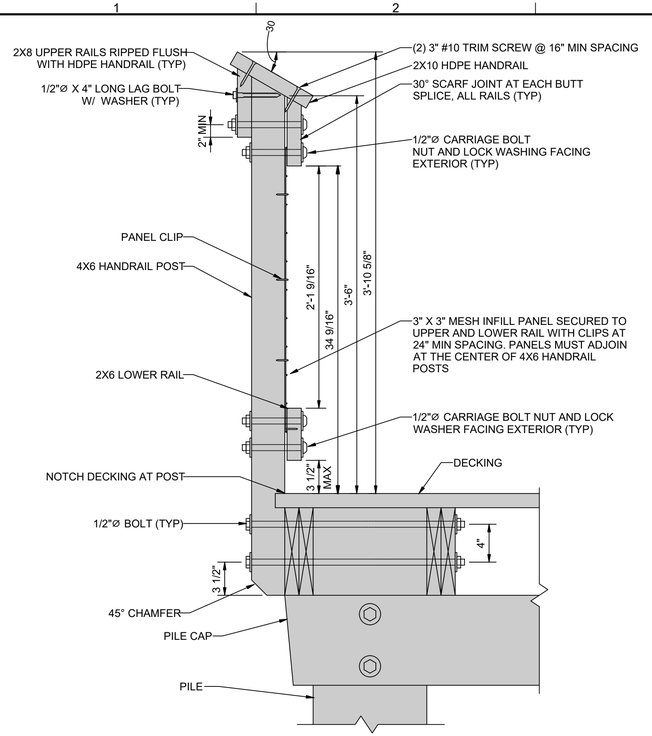
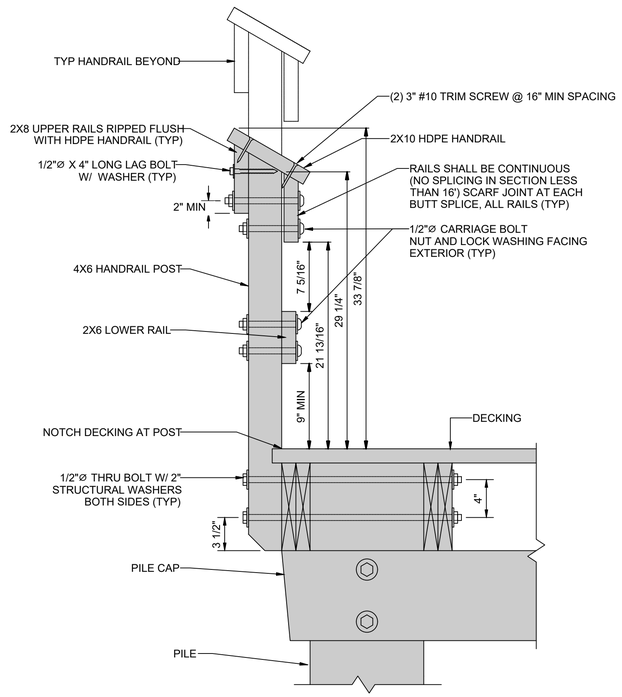


TYPICAL HANDRAIL CROSS-SECTION

NOT TO SCALE



TYPICAL ADA DROP DOWN HANDRAIL CROSS-SECTION

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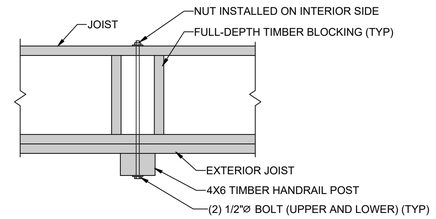

MID-BENT HANDRAIL BLOCKING DETAIL

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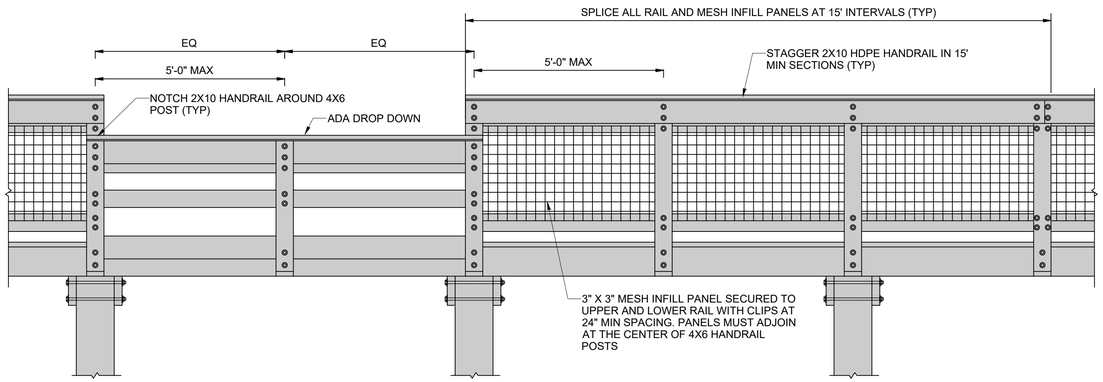

TYPICAL HANDRAIL ELEVATION

NOT TO SCALE

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SHEET TITLE

TYPICAL DETAILS

CS-13

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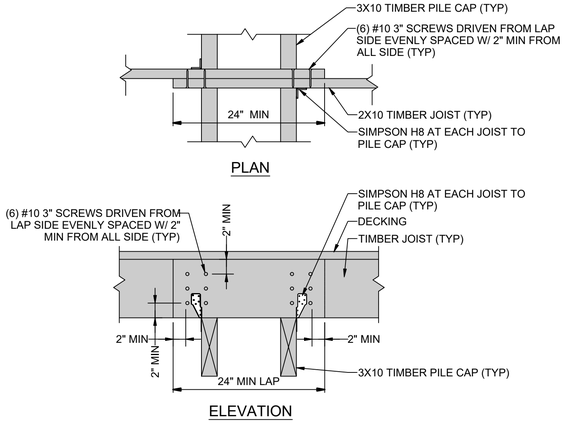

TYPICAL JOIST FRAMING DETAIL

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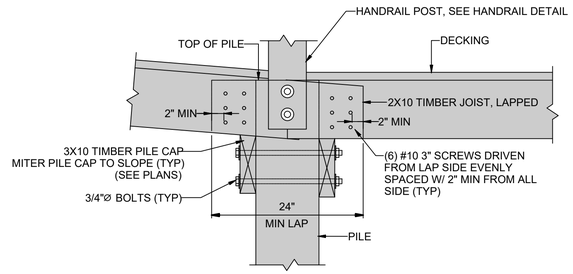

TYPICAL FRAMING AT INLINE SLOPE TRANSITION

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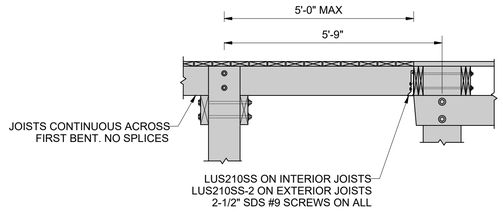
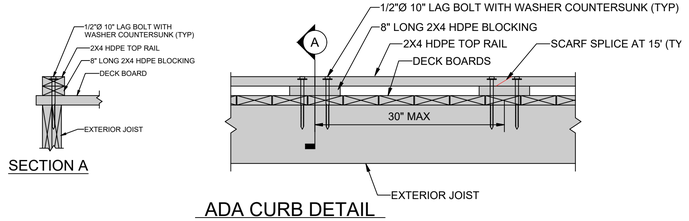


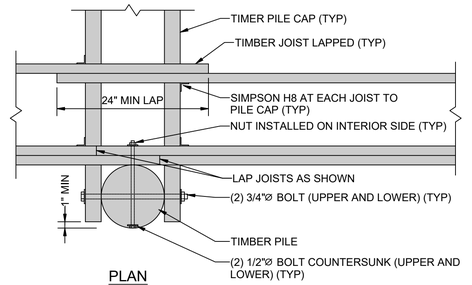
TYPICAL JOIST FRAMING AT INTERSECTION

NOT TO SCALE



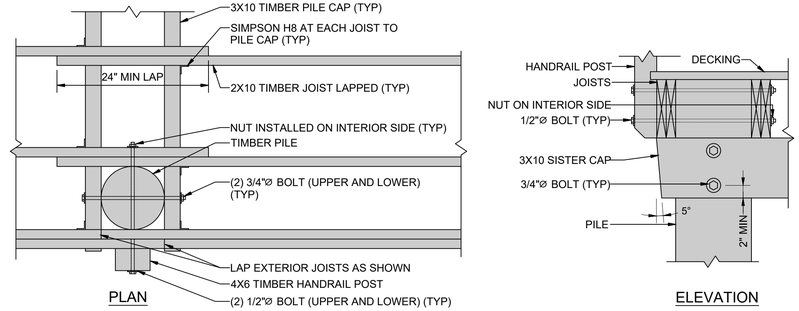
ADA CURB DETAIL

NOT TO SCALE



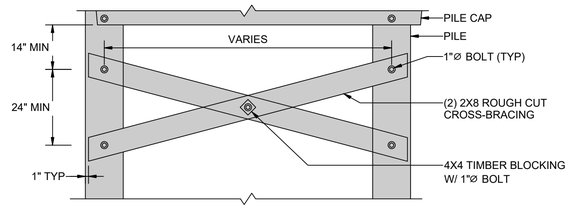
TYPICAL FRAMING DETAIL AT FENDER PILE

NOT TO SCALE



TYPICAL FRAMING DETAIL AT HANDRAIL

NOT TO SCALE



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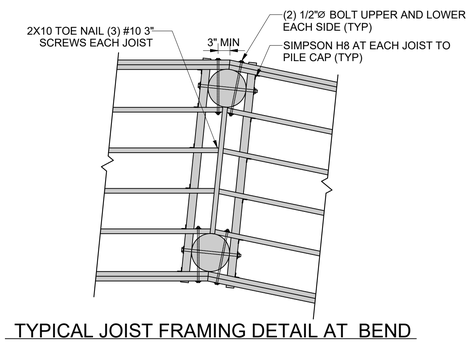

TYPICAL JOIST FRAMING DETAIL AT BEND

NOT TO SCALE

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DESTIN, FLORIDA 32541
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TYPICAL DETAILS

CS-14

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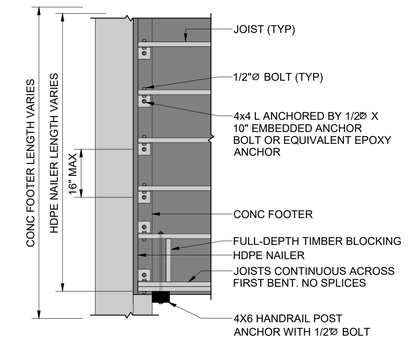
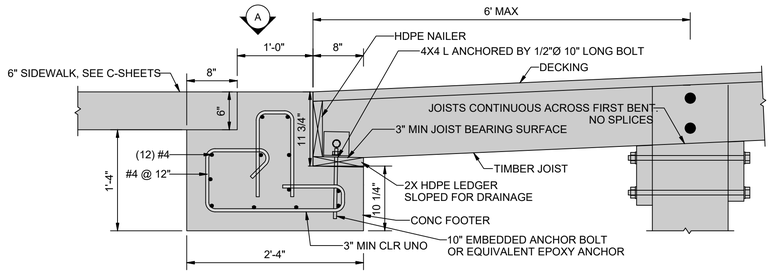


A TYPICAL FOOTER PLAN
NOT TO SCALE



TYPICAL FOOTER CROSS-SECTION
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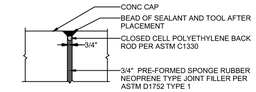
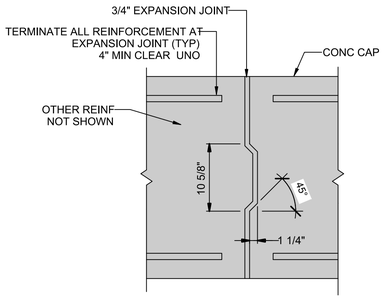


NOTE:
SEALANT SHALL BE VULKEN 921, SIKAFLEX 1A, OR ENGINEER APPROVED POLYURETHANE OR POLYSULFIDE SEALANT COMPLYING WITH ASTM C920 TYPE S OR M, GRADE NS, CLASS 35 OR GREATER AND RECOMMENDED BY THE MANUFACTURER FOR CONCRETE EXPANSION JOINTS 3/4" OR GREATER IN WIDTH.



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4300 LEGENDARY DRIVE
SUITE C246
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(850) 460-7040
REGISTRY # 4815

SEAL

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PROJECT TITLE
JOES BAYOU RECREATION AREA
IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

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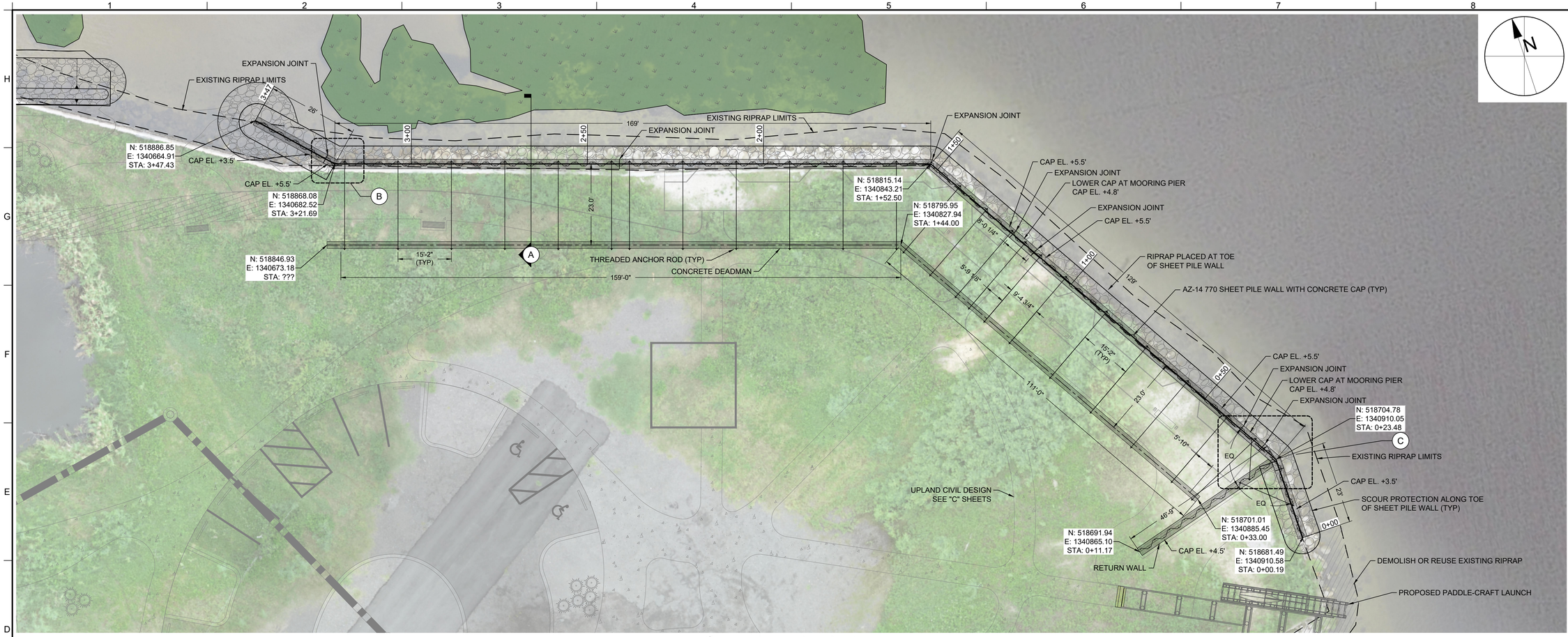
SHEET TITLE
TYPICAL DETAILS

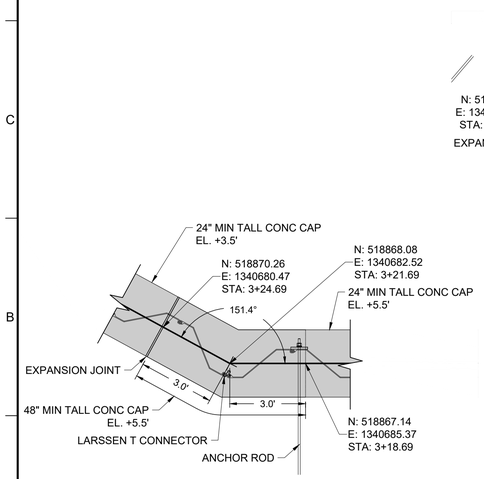
CS-15

PETER JANSEN, 5/14/2026 5:13:48 PM, X:\sys\Projects\2021-045_JoeBayou\Construction\c2021-045-C-Typ Framing Details.dwg

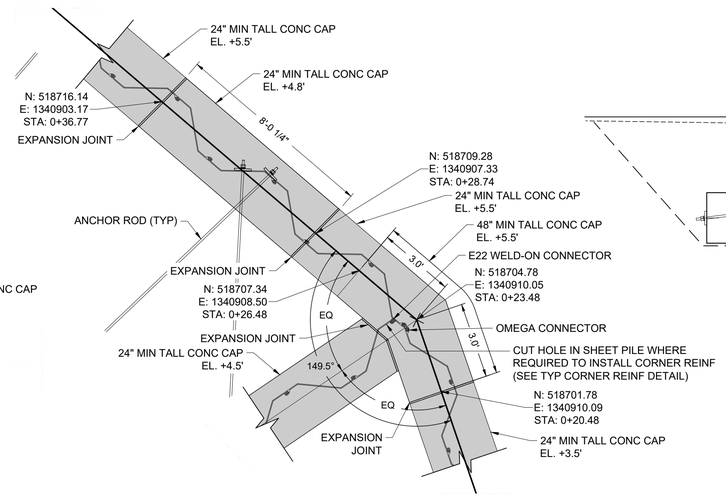


SHEET PILE WALL PLAN

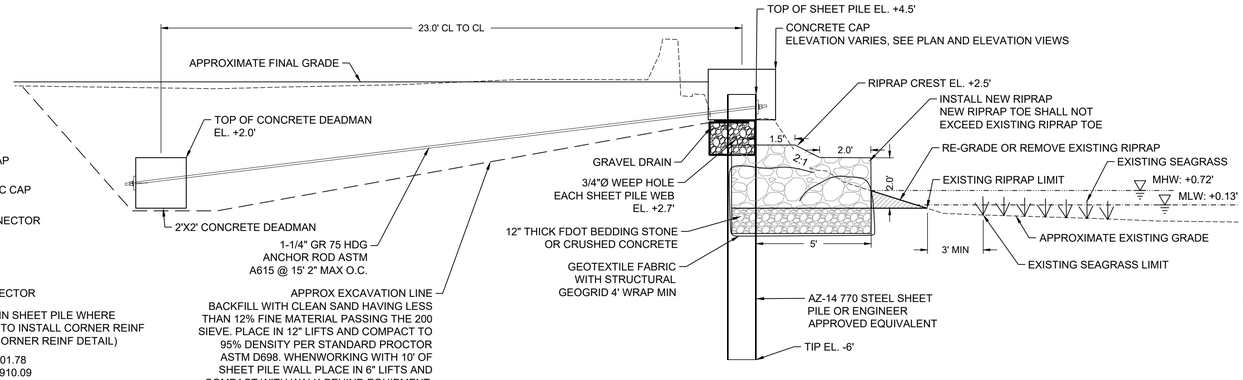
SCALE: 1" = 15' 0 15'



B WALL DETAIL B
SCALE: 1" = 3' 0 3'



C WALL DETAIL C
SCALE: 1" = 3' 0 3'



A TYPICAL SHEET PILE WALL CROSS-SECTION
SCALE: 1" = 3' 0 3'

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PROJECT TITLE

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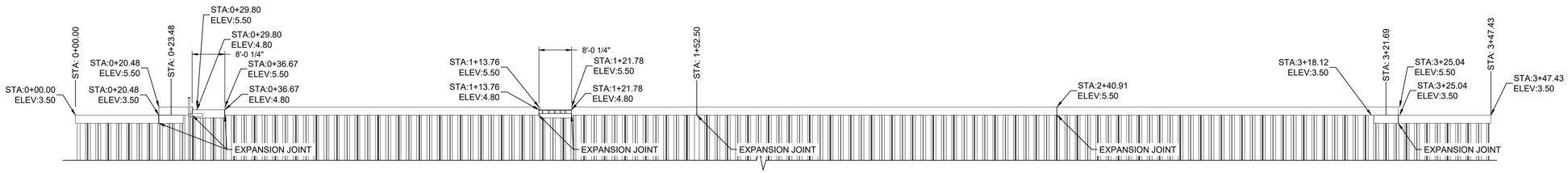
SHEET TITLE

SEAWALL SHEET PILE PLAN

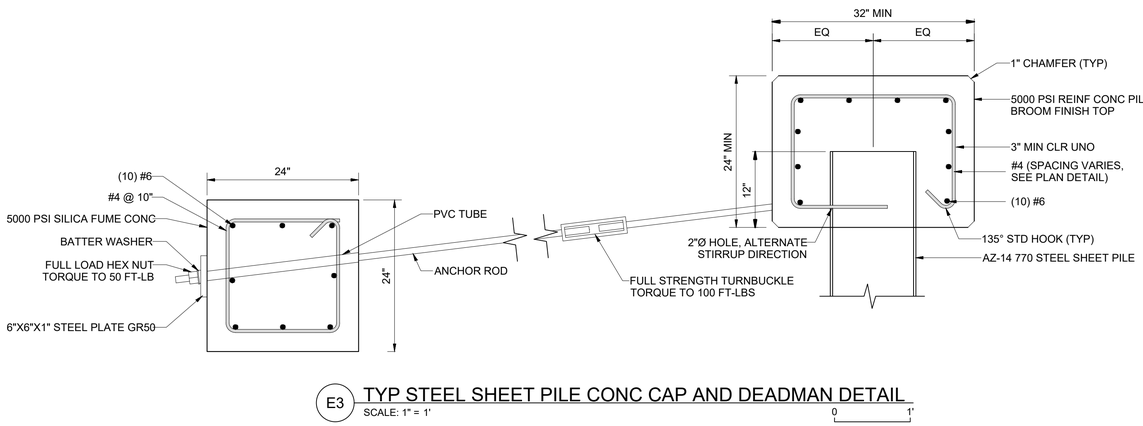
CS-16

PETER JANSEN, 5/14/2026 5:14:13 PM, X:\sys\Projects\2021-045_JoeBayou\Construction\2021-045-C-Seawall and Section 30p.dwg



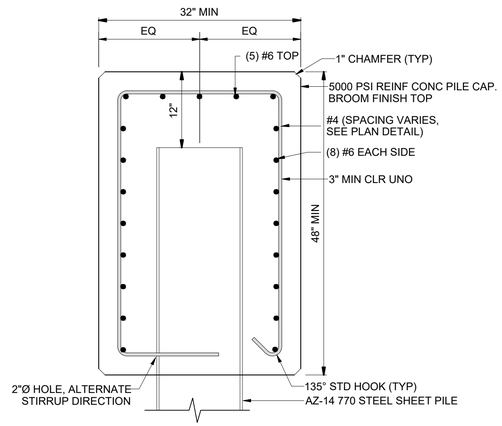
STEEL SHEET PILE WALL ELEVATION

SCALE: 1" = 15'



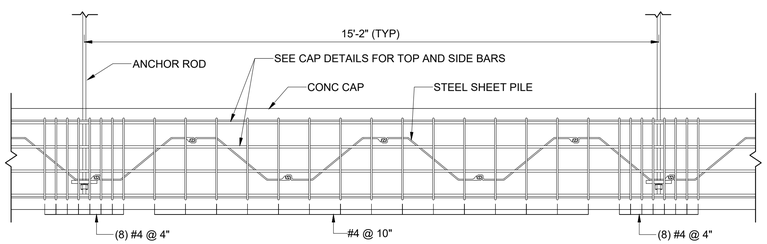
E3 TYP STEEL SHEET PILE CONC CAP AND DEADMAN DETAIL

SCALE: 1" = 1'



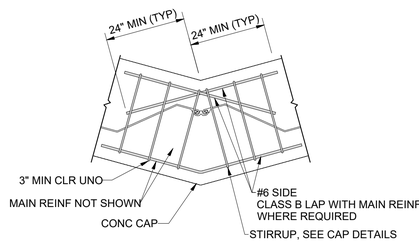
D5 TYPICAL 48-IN MIN TALL CONC CAP

SCALE: 1" = 1'



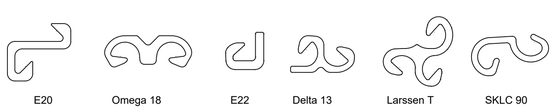
TYPICAL CONC CAP ANCHOR AND STIRRUP PLAN DETAIL

NOT TO SCALE



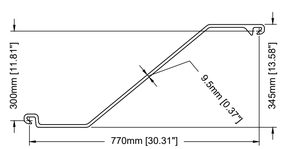
TYPICAL CORNER REINF DETAIL

NOT TO SCALE



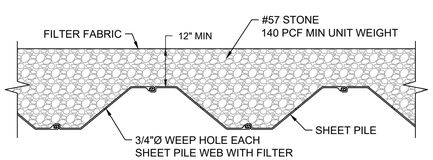
STEEL SHEET PILE CONNECTORS

NOT TO SCALE



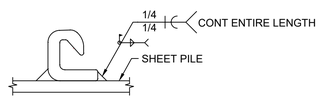
AZ-14 770 STEEL SHEET PILE DETAIL

NOT TO SCALE



GRAVEL DRAIN PLAN DETAIL

NOT TO SCALE



E22 WELD-ON CONNECTOR

NOT TO SCALE

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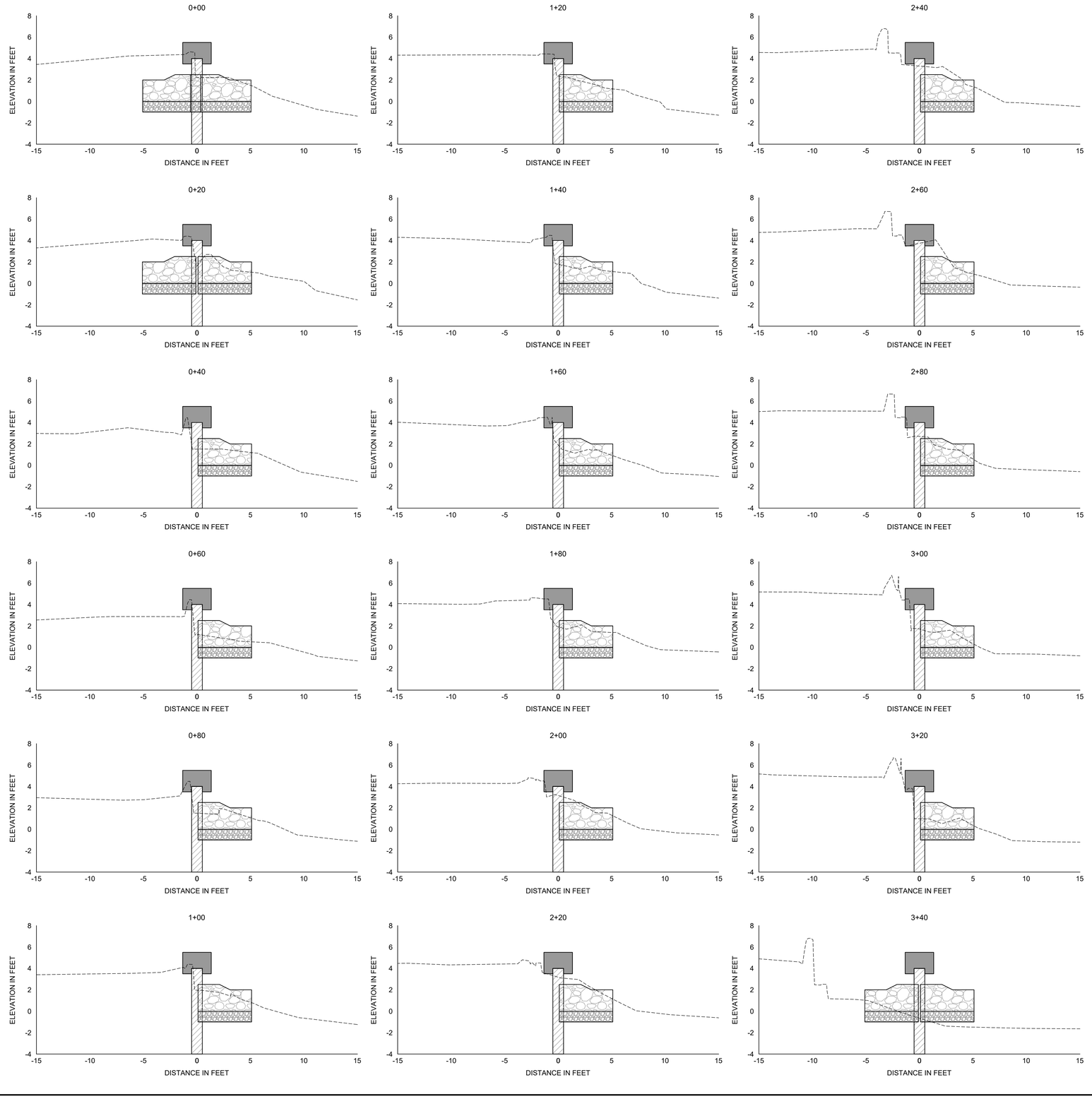
SHEET TITLE

SEAWALL DETAILS

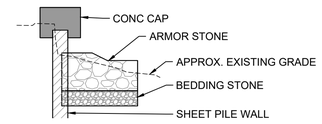
CS-17

PETER JANSEN, 5/14/2026 9:14:16 PM, X:\sys\Projects\c2021-045_JoeBayou\Construction\c2021-045-C-Seawall and Section 30p.dwg

NOTE: PILE TIP ELEVATIONS NOT INDICATED ON THIS SHEET



LEGEND:



0 5' 10' 20'

GRAPHIC SCALE
22X34: 1" = 5'
11X17: 1" = 10'

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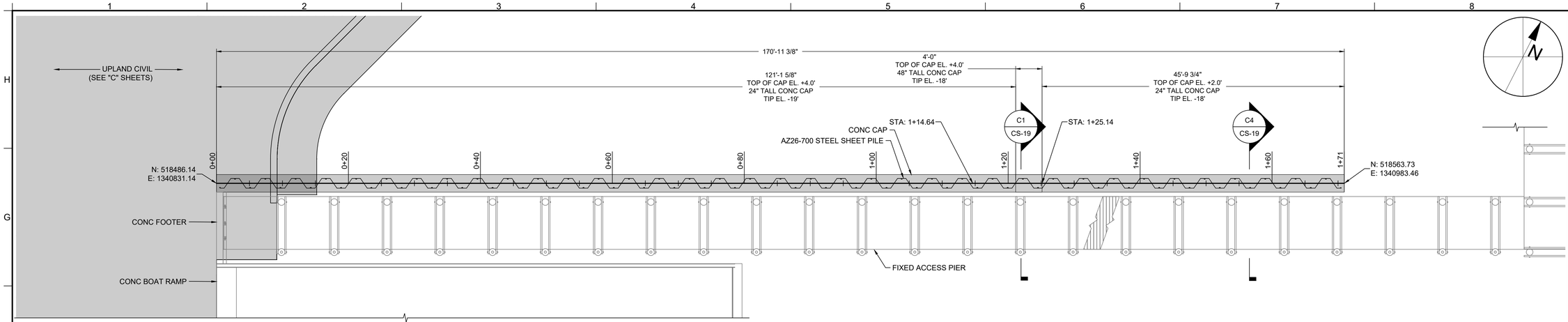
REVIEWED	REVBY

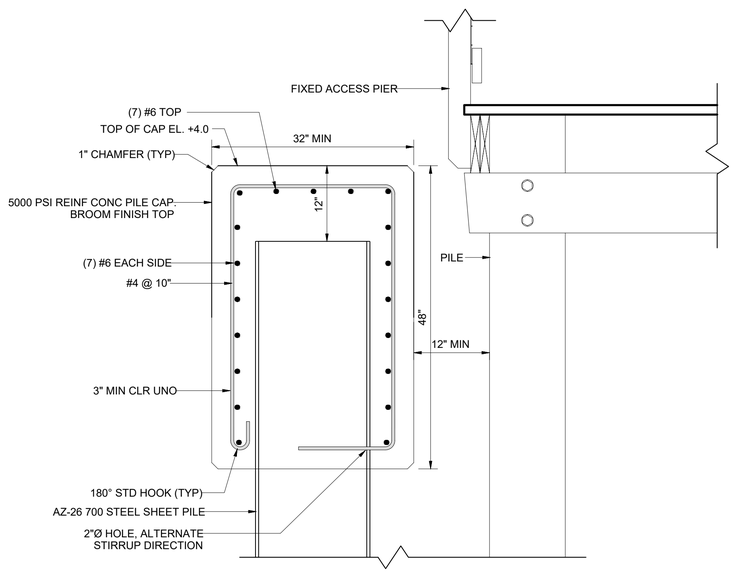
SHEET TITLE

STEEL SHEET PILE WALL CROSS-SECTIONS

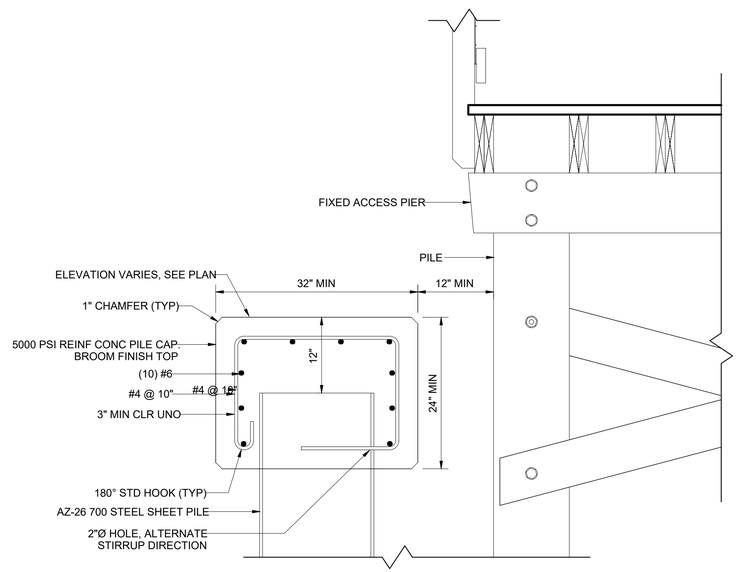
CS-18

PETER JANSEN, 5/14/2026 5:14:24 PM, X:\sys\Projects\c2021-045_JoeBayou\Construction\c2021-045-C-Seawall Cross-Section.dwg

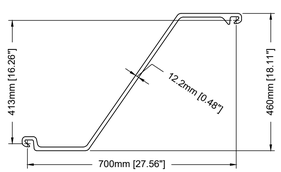




C1 TYP GROIN WALL 48-IN TALL CONC CAP CROSS-SECTION
SCALE: 1" = 1'



C4 TYP GROIN CONC CAP CROSS-SECTION
SCALE: 1" = 1'



AZ-26 700 STEEL SHEET PILE DETAIL
NOT TO SCALE

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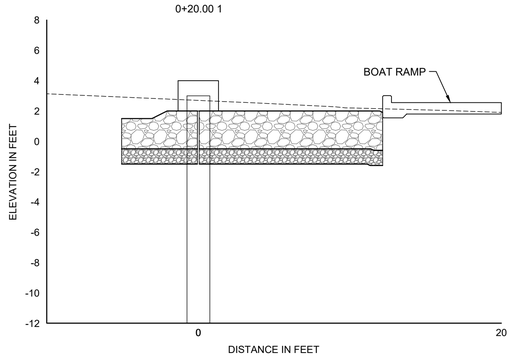
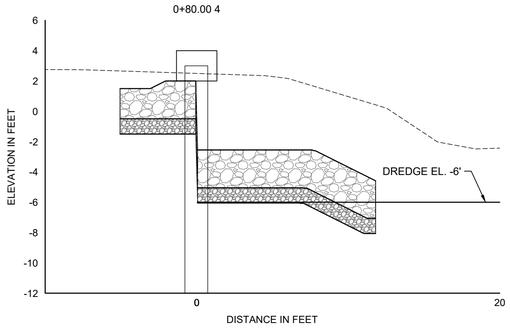
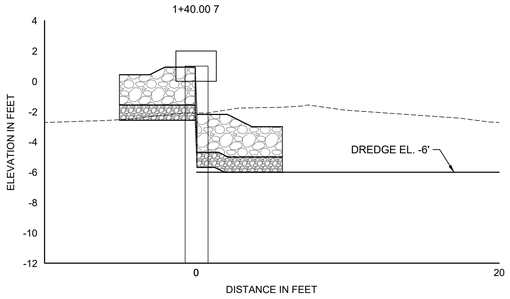
SHEET TITLE
GROIN SHEET PILE PLAN

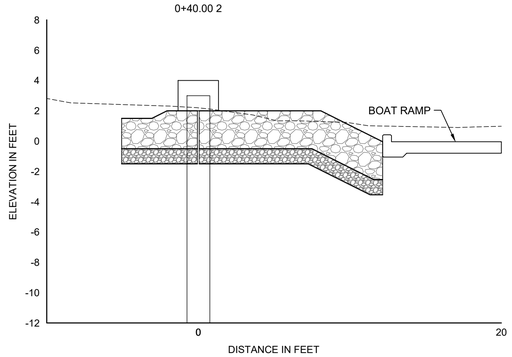
CS-19

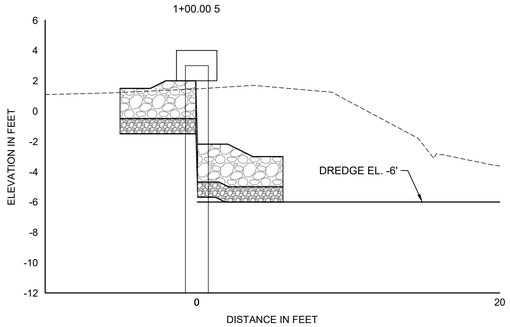
PETER JANSEN, 5/14/2026 5:14:30 PM, X:\sys\Projects\c2021-045_JoeBayou\Construction\c2021-045-C-Groin Plan and details.dwg

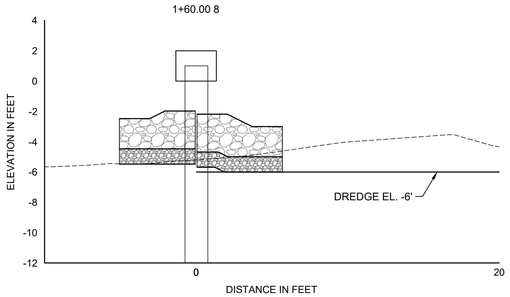


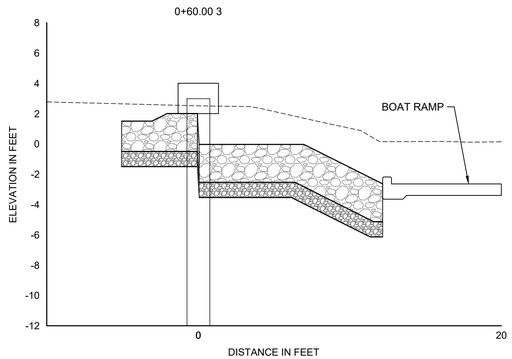


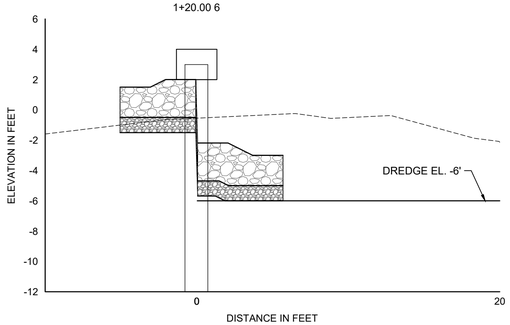






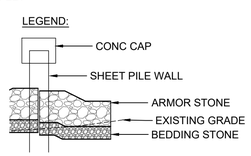


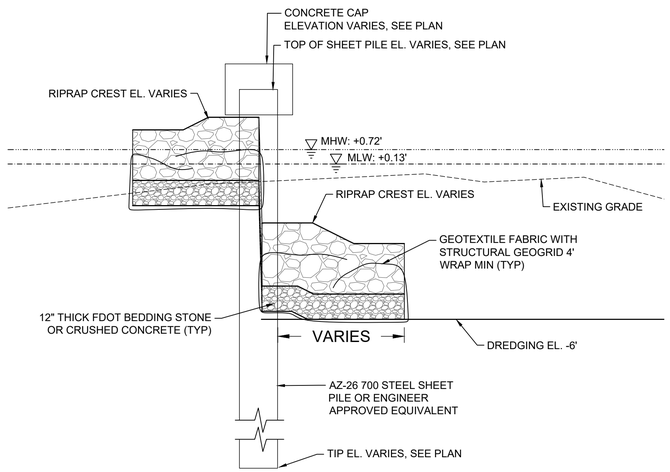




GROIN CROSS-SECTIONS

SCALE: 1" = 5'





TYPICAL GROIN CROSS-SECTION

SCALE: 1" = 3'

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SHEET TITLE

GROIN
CROSS-SECTIONS

CS-20

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LINE TABLE				
ID	LENGTH	DIRECTION	START POINT (E,N)	END POINT (E,N)
L1	38.66	N70° 48' 12.73"W	(1340446.78,518969.59)	(1340410.27,518982.30)
L2	59.88	N51° 34' 45.16"W	(1340404.42,518985.52)	(1340357.51,519022.73)
L3	39.56	N71° 42' 42.37"W	(1340351.35,519026.05)	(1340313.79,519038.46)
L4	96.96	S79° 06' 59.15"W	(1340303.74,519039.11)	(1340208.53,519020.81)
L5	11.66	S60° 59' 15.19"W	(1340205.57,519019.73)	(1340195.37,519014.07)
L6	10.98	N15° 24' 14.91"E	(1340183.37,519037.97)	(1340186.29,519048.56)
L7	3.93	N24° 52' 06.30"W	(1340185.49,519058.14)	(1340183.84,519061.71)
L8	95.91	N65° 20' 53.80"W	(1340161.34,519084.13)	(1340074.17,519124.13)
L9	3.99	N73° 51' 45.32"W	(1340047.24,519134.14)	(1340043.41,519135.25)
L10	94.64	N58° 38' 02.58"W	(1340022.62,519144.40)	(1339941.81,519193.66)
L11	7.70	N35° 22' 28.50"W	(1339906.04,519227.01)	(1339901.59,519233.28)

CURVE TABLE					
ID	RADIUS	LENGTH	CHORD DIRECTION	START POINT (E,N)	END POINT (E,N)
C1	20.00	6.71	N61° 11' 28.95"W	(1340410.27,518982.30)	(1340404.42,518985.52)
C2	20.00	7.03	N61° 38' 43.76"W	(1340357.51,519022.73)	(1340351.35,519026.05)
C3	20.00	10.18	N86° 17' 51.61"W	(1340313.79,519038.46)	(1340303.74,519039.11)
C4	10.00	3.16	S70° 03' 07.17"W	(1340208.53,519020.81)	(1340205.57,519019.73)
C5	13.97	9.82	N4° 43' 55.69"W	(1340186.29,519048.56)	(1340185.49,519058.14)
C6	45.91	32.44	N45° 06' 30.05"W	(1340183.84,519061.71)	(1340161.34,519084.13)
C7	193.52	28.76	N69° 36' 19.56"W	(1340074.17,519124.13)	(1340047.24,519134.14)
C8	85.73	22.79	N66° 14' 53.95"W	(1340043.41,519135.25)	(1340022.62,519144.40)
C9	121.28	49.23	N47° 00' 15.54"W	(1339941.81,519193.66)	(1339906.04,519227.01)

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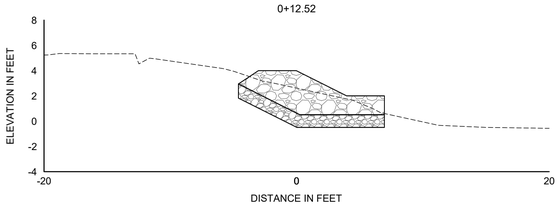
SHEET TITLE

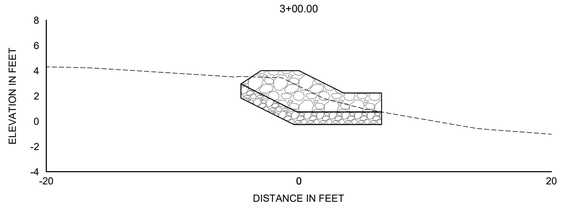
REVETMENT PLAN

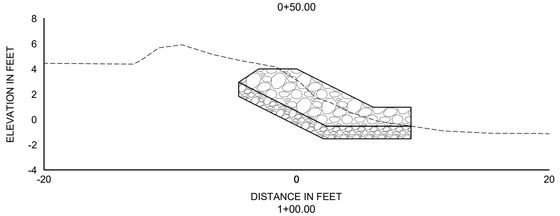
CS-21

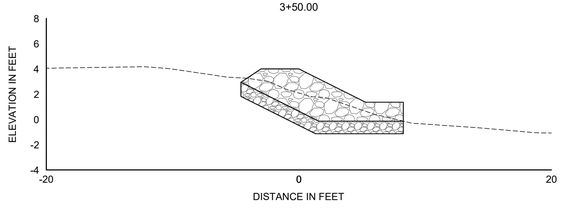
GRAPHIC SCALE
22X34: 1" = 20'
11X17: 1" = 40'

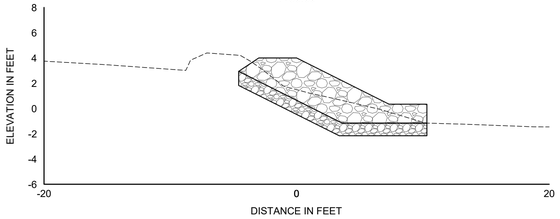
PETER JANSEN, 5/14/2026 5:14:55 PM, X:\sys\Projects\2021-045_JoeBayou\Construction\2021-045-C-Revetment Plan.dwg

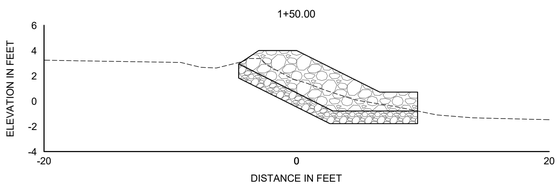


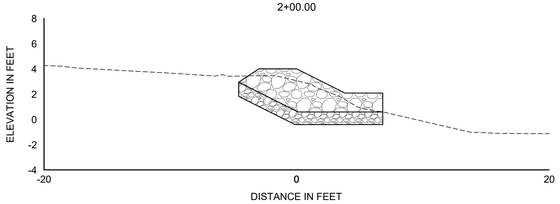


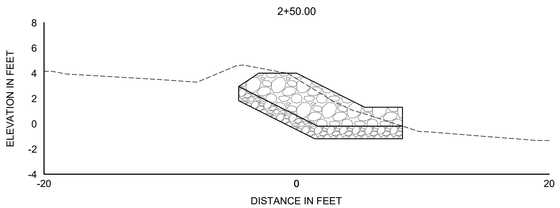






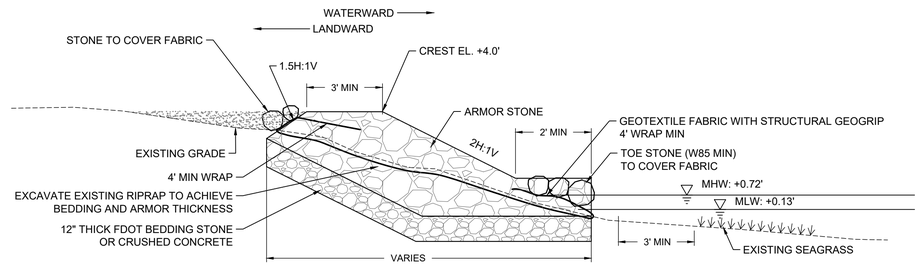






LEGEND:
- EXISTING GRADE
- ARMOR STONE
- BEDDING STONE

REVETMENT 1 CROSS-SECTIONS
SCALE: 1" = 6'



SHORELINE REVETMENT TYPICAL CROSS-SECTION
SCALE: 1" = 3'

TAYLOR ENGINEERING, INC.
4300 LEGENDARY DRIVE
SUITE C246
DESTIN, FLORIDA 32541
(850) 460-7040
REGISTRY # 4B15

SEAL

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PROJECT TITLE
JOES BAYOU RECREATION AREA
IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

Call 811 Sunshine 811 before you dig.

PROJECT NO	C2021-045
DATE	MAY 2026
DESIGNED	DG
DRAWN	AF
CHECKED	CHECKBY
REVIEWED	REVBY

SHEET TITLE
REVETMENT CROSS-SECTIONS

CS-22

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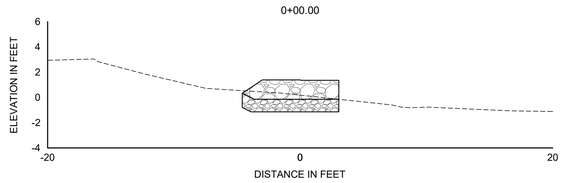

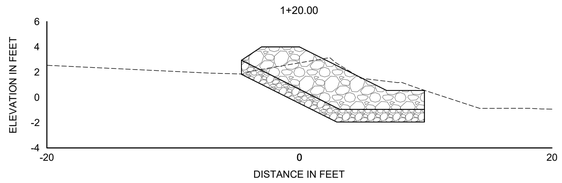

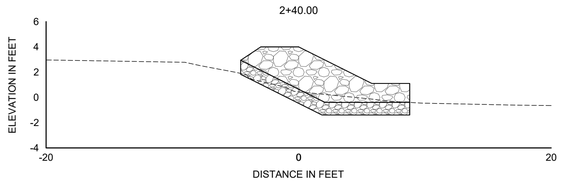

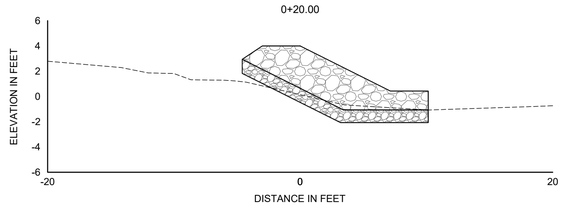

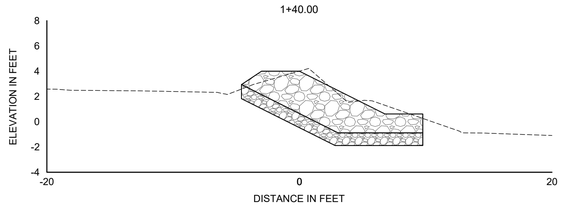

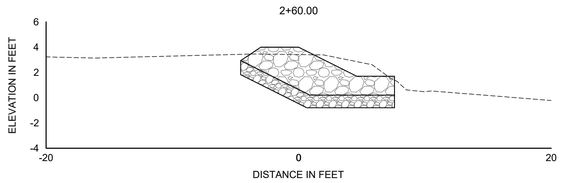

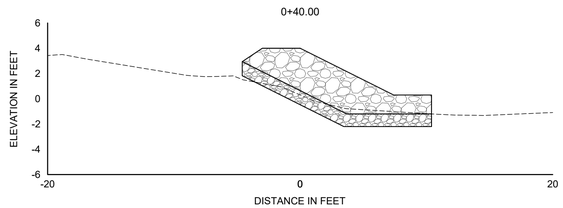

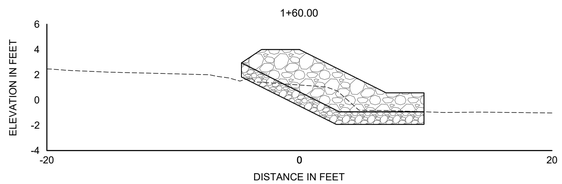

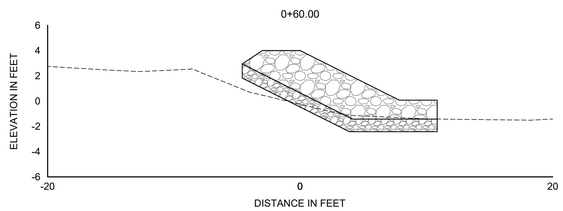

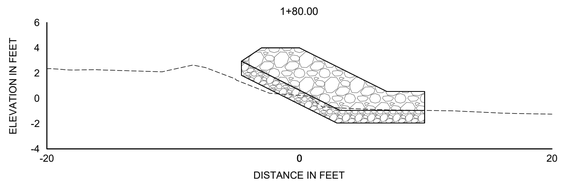

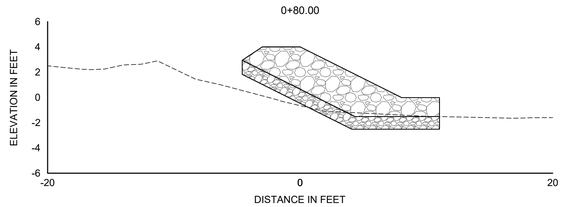

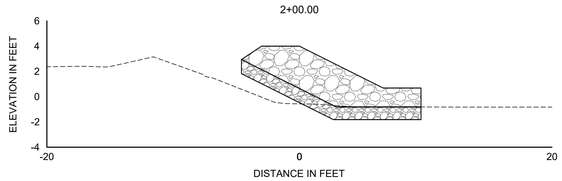

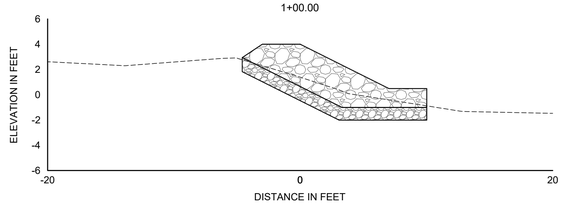

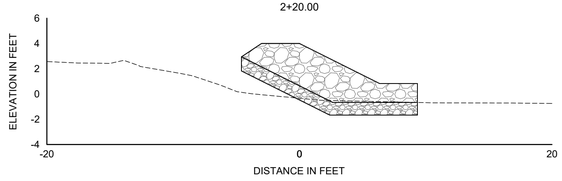

REVETMENT 2 CROSS-SECTIONS

SCALE: 1" = 6'

LEGEND:
- EXISTING GRADE
- ARMOR STONE
- BEDDING STONE

TAYLOR ENGINEERING, INC.
4300 LEGENDARY DRIVE
SUITE C246
DESTIN, FLORIDA 32541
(850) 460-7040
REGISTRY # 4815

SEAL

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PROJECT TITLE

JOES BAYOU RECREATION AREA
IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

Call 811 before you dig.

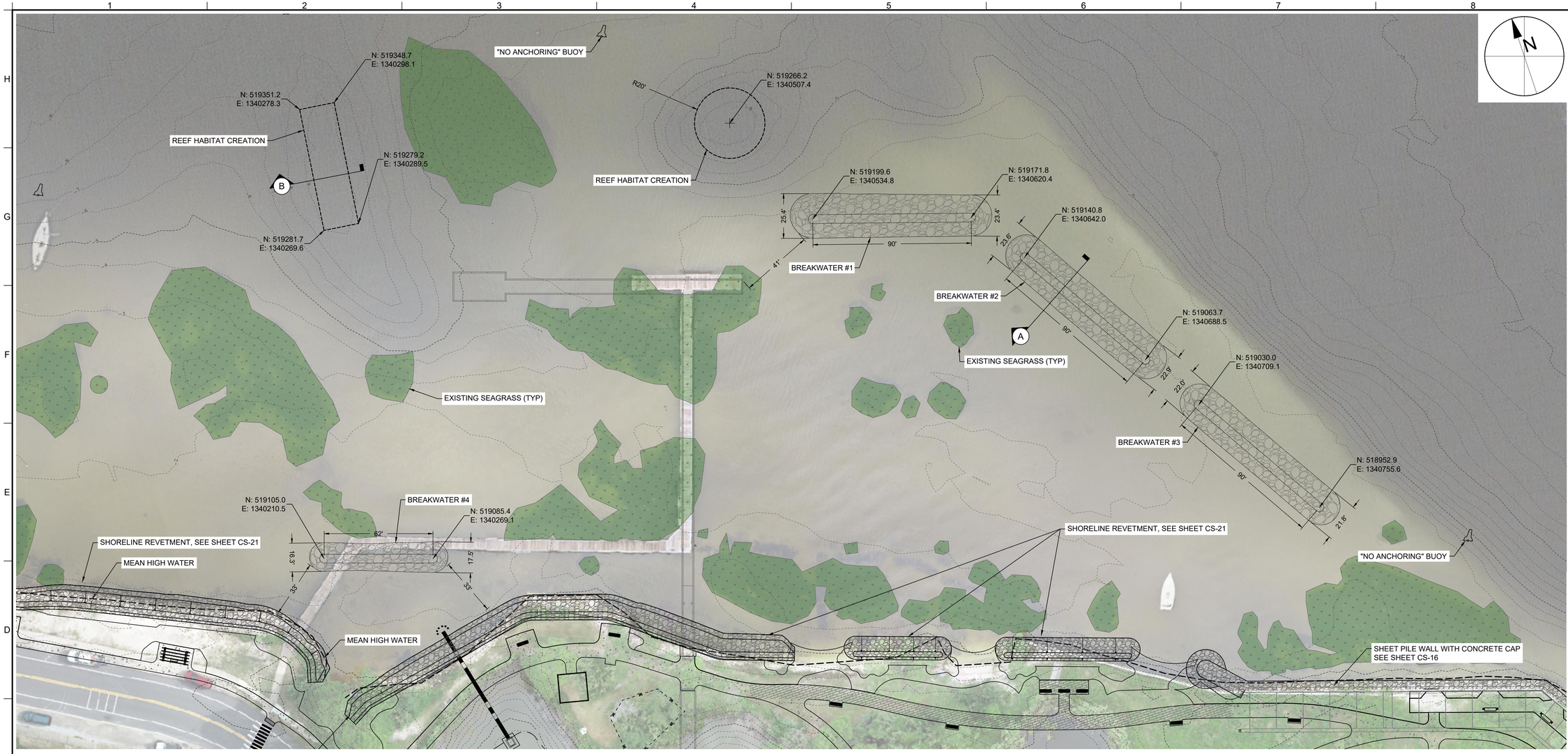
PROJECT NO	C2021-045
DATE	MAY 2026
DESIGNED	DG
DRAWN	AF
CHECKED	CHECKBY
REVIEWED	REVBY

SHEET TITLE

REVETMENT CROSS-SECTIONS

CS-23

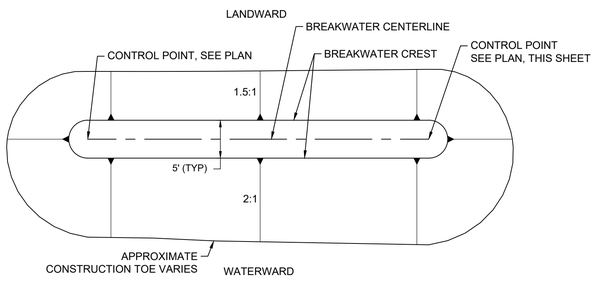
PETER JANSEN, 5/14/2026 5:15:02 PM, X:\sys\Projects\c2021-045_JoeBayou\Construction\c2021-045-C-Revetment XSECS.dwg



BREAKWATER AND REEF HABITAT PLAN

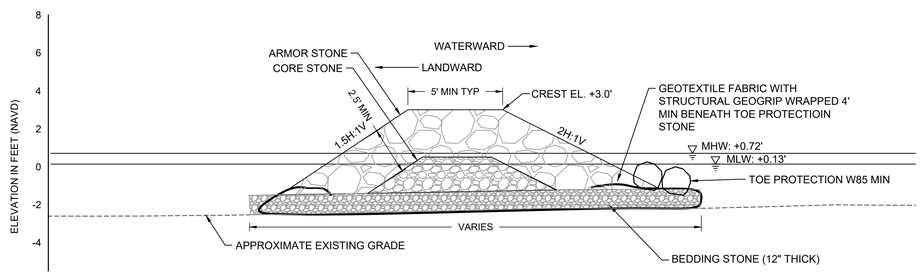
SCALE: 1" = 30'

0 30'



TYPICAL BREAKWATER PLAN DETAIL

NOT TO SCALE



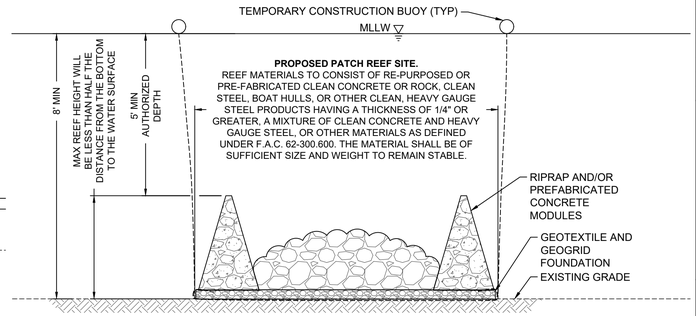
A TYPICAL BREAKWATER CROSS-SECTION

SCALE: 1" = 4'

0 4'

NOTES:

1. MARKER BUOYS WILL BE SECURED ALONG THE PERIMETER OF THE PATCH REEF SITES PRIOR TO MATERIAL PLACEMENT TO DEFINE THE DROP AREA AND TO ENSURE ACCURATE PLACEMENT WITHIN THE APPROVED SITE.
2. QUALITY CONTROL DIVES SHALL BE PERFORMED AS NECESSARY TO ENSURE PROPER MATERIAL PLACEMENT AND RELIEF.



B TYPICAL REEF AREA CROSS-SECTION

NOT TO SCALE

TAYLOR
ENGINEERING, INC.
4300 LEGENDARY DRIVE
SUITE C246
DESTIN, FLORIDA 32541
(850) 460-7040
REGISTRY # 4815

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PROJECT TITLE

JOES BAYOU RECREATION AREA
IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

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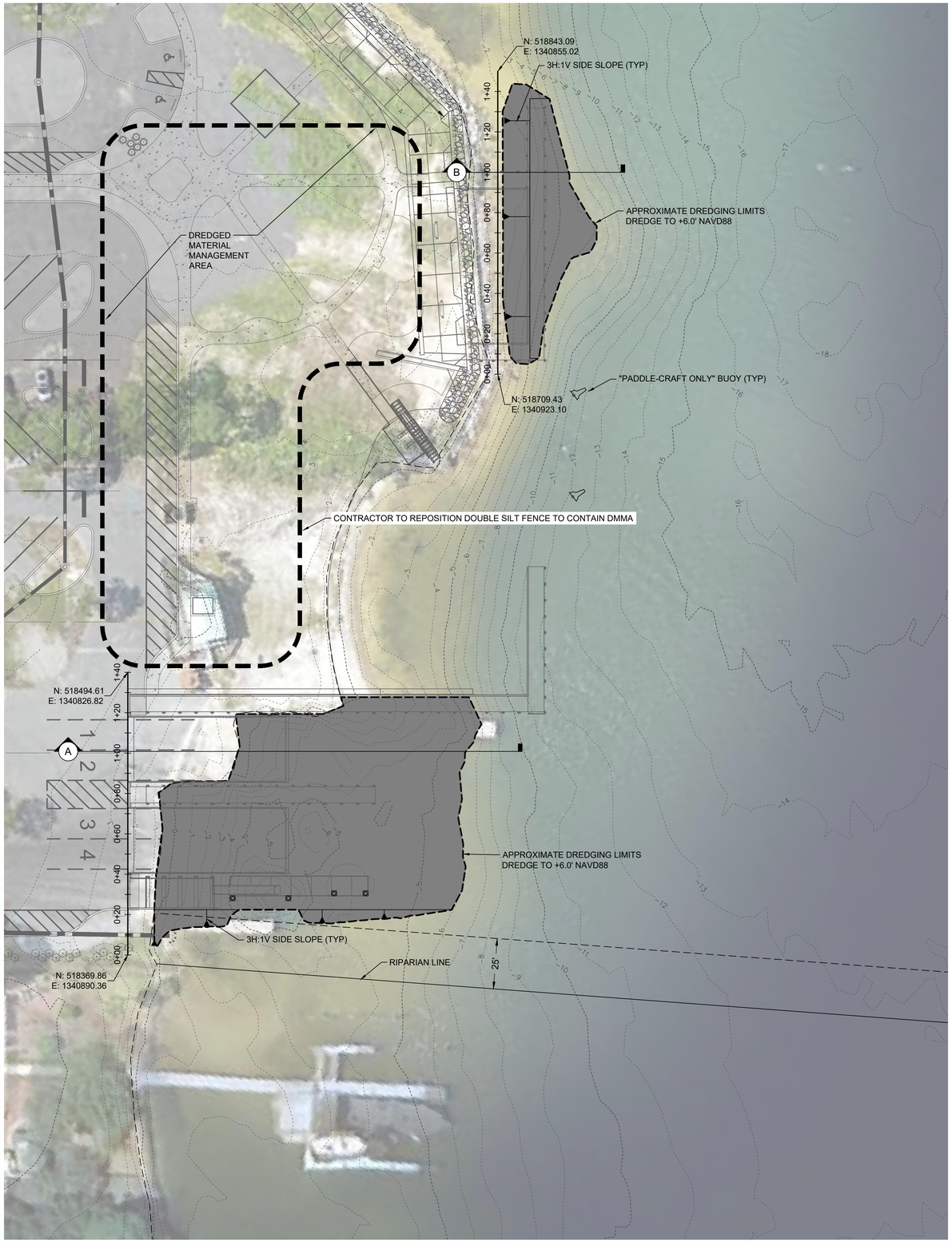
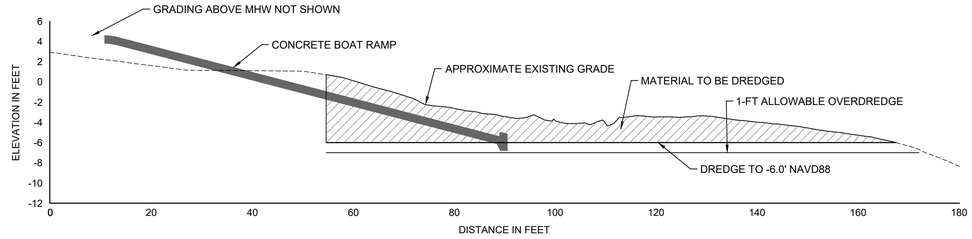
SHEET TITLE

BREAKWATER AND
REEF PLAN

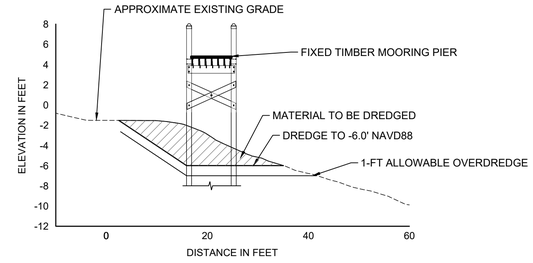
CS-24

PETER JANSEN, 5/14/2026 5:15:14 PM, X:\sys\Projects\2021-045_JoeBayou\Construction\2021-045-C-Breakwater Plan.dwg





A TYPICAL BOAT RAMP DREDGING CROSS-SECTION
SCALE: 1" = 15'



B TYPICAL MOORING PIER DREDGING CROSS-SECTION
SCALE: 1" = 15'

DREDGING QUANTITIES:

MOORING PIER DREDGE TEMPLATE: 198 CY
MOORING PIER WITH 1' ALLOWABLE OVERDREDGE: 343 CY

BOAT RAMP DREDGING TEMPLATE: 1427 CY
BOAT RAMP WITH 1' ALLOWABLE OVERDREDGE: 1969 CY

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4300 LEGENDARY DRIVE
SUITE C246
DESTIN, FLORIDA 32541
(850) 460-7040
REGISTRY # 4815

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IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

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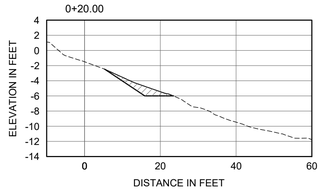
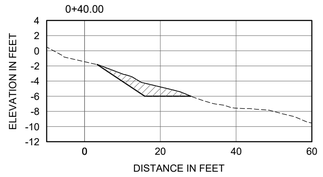
DATE	MAY 2026
DESIGNED	DG
DRAWN	AF
CHECKED	CHECKBY
REVIEWED	REVBY

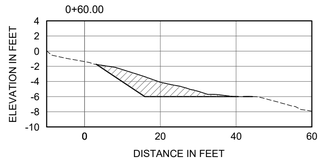
SHEET TITLE
DREDGING PLAN AND TYPICAL CROSS-SECTIONS

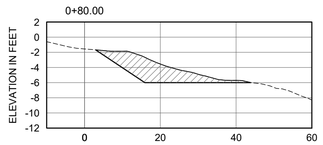
CS-25

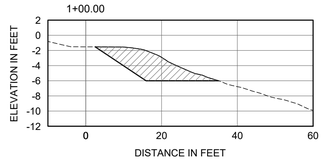
PETER JANSEN, 5/14/2026 5:15:33 PM, X:\sys\Projects\c2021-045_JoeBayou\Construction\c2021-045-C-Dredging.dwg

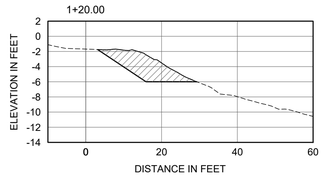


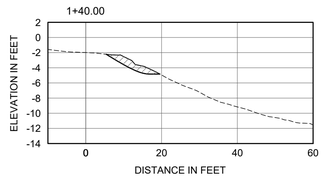








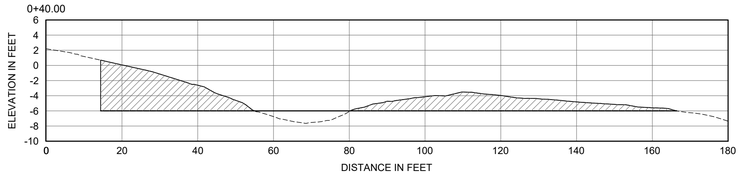


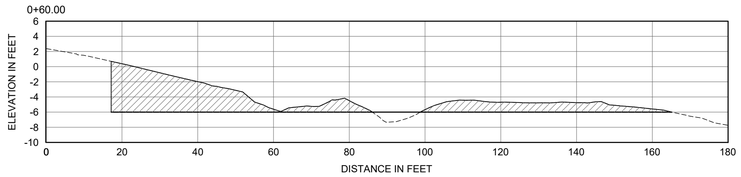


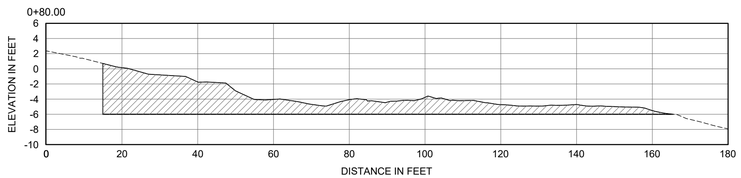
LEGEND:
- 2021 SURVEY
- MATERIAL TO BE DREDGED

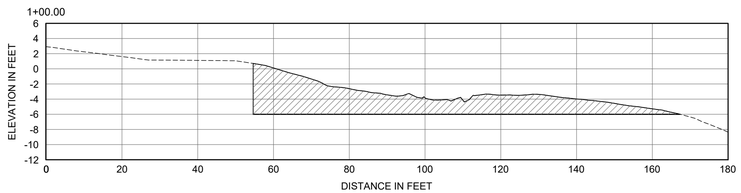
MOORING PIER DREDGING CROSS-SECTIONS

SCALE: 1" = 20' 0 20'









BOAT RAMP DREDGING CROSS-SECTIONS

SCALE: 1" = 20' 0 20'

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4300 LEGENDARY DRIVE
SUITE C246
DESTIN, FLORIDA 32541
(850) 460-7040
REGISTRY # 4815

SEAL

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PROJECT TITLE

JOES BAYOU RECREATION AREA
IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

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SHEET TITLE

DREDGING CROSS-SECTIONS

CS-26

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4300 LEGENDARY DRIVE
SUITE C246
DESTIN, FLORIDA 32541
(850) 460-7040
REGISTRY # 4815

SEAL

ENG

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CITY OF DESTIN, FLORIDA

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NO	ZONE	REVISIONS / SUBMISSIONS	DATE

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DRAWN	AF
CHECKED	CHECKBY
REVIEWED	REVBY

SHEET TITLE

AIDS TO NAVIGATION, REGULATORY SIGNS, AND CONTAINER PLAN

CS-27

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SIGN E1

SIGN E2

SIGN E3

SIGN E4

COASTAL HABITAT SIGN
(TO BE ADDED)

SIGN E5

WETLAND HABITAT SIGN
(TO BE ADDED)

SIGN E6

STORMWATER
TREATMENT POND

NO MOWING OR
SPRAYING OF
AQUATIC
VEGETATION
ALLOWED UNLESS
AUTHORIZED BY
FDEP. CALL
850-595-8300 FOR
MORE INFORMATION

SIGN E8

SIGN E7

SIGN S1

SIGN S2

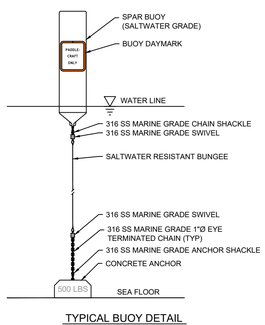
SIGN S3

PADDLE-
CRAFT
ONLY

BUOY B1

CAUTION:
SEAGRASS
NO
ANCHORING

BUOY B2



TYPICAL BUOY DETAIL
NOT TO SCALE

TAYLOR
ENGINEERING, INC.
4300 LEGENDARY DRIVE
SUITE C246
DESTIN, FLORIDA 32541
(850) 460-7040
REGISTRY # 4815

SEAL

ENG

PROJECT TITLE

JOES BAYOU RECREATION AREA
IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

Call 811 before you dig.

PROJECT NO	C2021-045
DATE	MAY 2026
DESIGNED	DG
DRAWN	AF
CHECKED	CHECKBY
REVIEWED	REVBY

SHEET TITLE

NAVIGATION AIDS
AND SIGNAGE
DETAILS

CS-28

PETER JANSEN, 5/14/2026 5:15:49 PM, X:\sys\Projects\c2021-045_JoeBayou\Construction\c2021-045-C-Signs.dwg

FLORIDA DEPARTMENT OF
Environmental Protection

Northwest District
160 W. Government Street, Suite 308
Pensacola, Florida 32502-5740

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Alexis A. Lambert
Secretary

Permittee/Authorized Entity:
City of Destin
Attn: Jeffrey Cozadd
4200 Indian Bayou Trail
Destin, Florida 32541
jcozadd@cityofdestin.com

Joe's Bayou Recreation Area Improvements

Authorized Agent:
Kierstin Masse
10199 Southside Boulevard, Suite 310
Jacksonville, Florida 32256
kmasse@taylorengineering.com

Environmental Resource Permit
State-owned Submerged Lands Authorization – Pending

U.S. Army Corps of Engineers Authorization – Separate Corps Authorization Required

Okaloosa County
Permit No.: 0142030-003-EI/46
Easement No.: 464301901

Permit Issuance Date: January 24, 2025
Permit Construction Phase Expiration Date: January 24, 2030

Consolidated Environmental Resource Permit and Recommended Intent to Grant Sovereignty Submerged Lands Authorization

Permittee/Grantee: City of Destin
Permit No: 0142030-003-EI/46

PROJECT LOCATION

The activities authorized by this permit and sovereignty submerged lands authorization are located 800 Beach Drive in Destin, Florida 32541 on an approximately 28.5-acre site and is not part of a larger planned development. Parcel ID 00-2S-22-1360-0010-0010, 00-2S-22-1360-0020-0010, 00-2S-22-1360-0020-0070, 00-2S-22-1360-0020-00A0, and 00-2S-22-1360-0020-0150 in Section 18, Township 2 South, Range 22 West in Okaloosa County, at 30° 24′ 40.82″ North Latitude, 86° 29′ 31.56″ West Longitude.

PROJECT DESCRIPTION

The application and plans for this project have been reviewed and the project qualifies for an ERP pursuant to Chapter 62-330, Florida Administrative Code. The permittee is authorized to conduct park improvement activities including shoreline stabilization; construction of breakwaters; creation of three natural embayment's; creation of a swimming beach; reconfiguration and extension of the existing fishing pier; replacement and reconfiguration of existing boat ramps and access piers; construction of a new mooring pier and an ADA-accessible paddle craft launch; replacement and extension of an existing groin; creation of two artificial reefs; removal of existing mooring buoys; placement of six private aids-to-navigation; dredging with a temporary dredged material management area; seagrass prop/anchor scar restoration; replacement and expansion of the existing Mattie Kelly Nature Walk boardwalk; construction of a new boardwalk over the stormwater pond connecting to the existing Mattie Kelly boardwalk and the fishing pier; construction of new parking lots, sidewalks, trails, pavilions, and seating areas; replacement of the existing restroom facility; replacement of existing outfalls; construction of new pedestrian crossings across Beach Drive; and reconfiguration and improvements to the existing stormwater treatment system. The stormwater management system will include one (1) wet detention pond. Activities will take place within the landward extent of Joes Bayou, a Class II Florida Waterbody, Prohibited Shellfish Harvesting. Activities will include the following impacts to resources: 0.0021 acres of shading impacts to seagrasses from the proposed timber fishing pier; 0.0267 acres of secondary impacts from the southwest parking area; 0.0002 acres of fill impacts from the proposed pond boardwalk, and 0.0158 acres of fill/shading impacts from the proposed boardwalk improvements. Authorized activities are depicted on the attached exhibits.

To offset unavoidable impacts that will occur from these authorized activities, the permittee shall perform the following activities: preserve 2.8508 acres of seagrasses, restore 0.0155 acres of seagrasses through prop/anchor scar restoration, and enhancement of 0.064 acres of seagrasses through seagrass recruitment area; enhancement of 4.3944 acres through invasive exotic nuisance species management; 0.1810 acres of enhancement through pond habitat buffer zone.

AUTHORIZATIONS

Joe's Bayou Recreation Area Improvements

Environmental Resource Permit
The Department has determined that the activity qualifies for an Environmental Resource Permit. Therefore, the Environmental Resource Permit is hereby granted, pursuant to Part IV of Chapter 373, Florida Statutes (F.S.), and Chapter 62-330, Florida Administrative Code (F.A.C.).

Sovereignty Submerged Lands Authorization
The activity is located on sovereignty submerged lands owned by the State of Florida. It therefore also requires authorization from the Board of Trustees of the Internal Improvement Trust Fund (Board of Trustees), pursuant to Article X, Section 11 of the Florida Constitution, and Section 253.77, F.S. As staff to the Board of Trustees under Sections 253.002, F.S., the Department has determined that the activity qualifies for and requires a public easement, as long as the work performed is located within the boundaries as described and is consistent with the terms and conditions herein.

The final documents required to execute the public easement will be sent to the grantee by the Department's Division of State Lands for execution. The Department intends to issue the public easement, upon satisfactory execution of those documents, including payment of required fees and compliance with the conditions in the attached permit. **You may not begin construction of the activities described until you receive a copy of the executed public easement from the Department.**

Federal Authorization
Your proposed activity as outlined on your application and attached drawings **does not qualify** for Federal authorization pursuant to the State Programmatic General Permit and a **SEPARATE permit** or authorization **shall be required** from the Corps. You must apply separately to the Corps using the Application for Department of the Army Permit (ENG 4345) or alternative as allowed by Corps regulations. More information on Corps permitting may be found online in the Jacksonville District Regulatory Division Sourcebook:

(https://www.saj.usace.army.mil/Missions/Regulatory/Source-Book/).
Authority for review - an agreement with the USACOE entitled "Coordination Agreement Between the U. S. Army Corps of Engineers (Jacksonville District) and the Florida Department of Environmental Protection (or Duly Authorized Designee), State Programmatic General Permit", Section 10 of the Rivers and Harbor Act of 1899, and Section 404 of the Clean Water Act.

Coastal Zone Management
Issuance of this authorization also constitutes a finding of consistency with Florida's Coastal Zone Management Program, as required by Section 307 of the Coastal Zone Management Act.

Water Quality Certification Granted
T This permit also constitutes a *grant* of water quality certification under Section 401 of the Clean Water Act, 33 U.S.C. Section 1341. Pursuant to Rule 62-330.062, F.A.C. issuance of the individual or conceptual approval permit under this chapter shall constitute certification of compliance with water quality standards.

Other Authorizations

You are advised that authorizations or permits for this activity may be required by other federal, state, regional, or local entities including but not limited to local governments or municipalities. This permit does not relieve you from the requirements to obtain all other required permits or authorizations.

The activity described may be conducted only in accordance with the terms, conditions and attachments contained in this document. Issuance and granting of the permit and authorizations herein do not infer, nor guarantee, nor imply that future permits, authorizations, or modifications will be granted by the Department.

PERMIT CONDITIONS

The activities described must be conducted in accordance with:

- **The Specific Conditions**
- **The General Conditions**
- **The limits, conditions and locations of work shown in the attached drawings**
- **The term limits of this authorization**

You are advised to read and understand these conditions and drawings prior to beginning the authorized activities, and to ensure the work is conducted in conformance with all the terms, conditions, and drawings herein. If you are using a contractor, the contractor also should read and understand these conditions and drawings prior to beginning any activity. Failure to comply with these conditions, including any mitigation requirements, shall be grounds for the Department to revoke the permit and authorization and to take appropriate enforcement action. Operation of the facility is not authorized except when determined to be in conformance with all applicable rules and this permit and sovereignty submerged lands authorization, as described.

SPECIFIC CONDITIONS – ADMINISTRATIVE/EMERGENCIES

1. The permittee shall be responsible for keeping records documenting that relevant permit conditions are met. This documentation shall include, at a minimum, the date of each inspection, the name and qualifications of the inspector, any maintenance actions taken, and a determination by the inspector as to whether the system is operating as intended. Inspection documentation must be readily available and shall be provided at the Department's request. Submittal of the inspection documentation to the Department is not required.

2. Within 30 days of any failure of a stormwater management system or deviation from the permit, a report shall be submitted to the Department on Form 62-330.311(1), Operation and Maintenance Inspection Certification, describing the remedial actions taken to resolve the failure of deviation. This report shall be signed and sealed by a registered professional.

3. For emergencies involving a serious threat to the public health, safety, welfare, or environment, the emergency telephone contact number is (800) 320-0519 (State Warning Point). The Department telephone number for reporting nonthreatening problems or system malfunctions is (850) 595-0663, day or night.

4. The mailing address for submittal of forms for the "Construction Commencement Notice", "As-Built Certification …", "Request for Conversion of Stormwater Management Permit Construction Phase to Operation and Maintenance Phase", or other correspondence is FDEP, SLERP, 160 W. Government Street, Pensacola, Florida 32502.

SPECIFIC CONDITIONS – MITIGATION

5. The Department's approval of the mitigation plan pursuant to this permit does not constitute a finding by the Department the mitigation will meet the required success criteria. The permittee acknowledges its obligation to meet the intent of the permit regarding the mitigation objective until the mitigation is determined by the Department to be successful.

SPECIFIC CONDITIONS – PRIOR TO ANY CONSTRUCTION

6. This permit does not authorize the construction of any additional structures not illustrated on the permit drawings.

7. Best management practices for erosion control shall be implemented prior to construction activities and maintained at all times during construction to prevent siltation and turbid discharges into adjacent wetlands. Methods shall include but are not limited to the use of staked hay bales, staked filter cloth, sodding, seeding, and mulching; staged construction; and the installation of turbidity screens around the immediate project site. Erosion control methods shall be implemented as described and shown in the attached permit drawings. The permittee shall be responsible for ensuring that erosion control devices/procedures are inspected and maintained daily during all stages of construction authorized by this permit until all areas that were disturbed during construction are sufficiently stabilized to prevent erosion, siltation, and turbid discharges.

SPECIFIC CONDITIONS – CONSTRUCTION ACTIVITIES

8. The construction phase expires at 11:59 p.m. on the date indicated on the cover page of this permit, unless an application for extension is received and approved pursuant to Rule 62-330.320, F.A.C. If construction of the stormwater management system authorized by this environmental resource permit has not been completed and continued use of the system formally transferred to the operating phase before the expiration date of the permit, or an authorized extension, then at least 60 days before such expiration date, the permittee shall apply for another individual stormwater permit, using the forms and accompanied by the fee required by rules in effect at that time.

9. Erosion controls shall remain in place until the filled area has sufficient vegetative coverage to ensure stability and prevent erosion into the surrounding wetlands or surface waters. Grass seed and mulch or sod shall be installed and maintained on all exposed slopes and disturbed soil areas within 48 hours of completing final grade, and at any other time as necessary, to prevent erosion, sedimentation, or turbid discharges into adjacent wetlands. A vegetative cover that stabilizes and prevents erosion of the fill material shall be established within 60 days of sodding or seeding. Upon establishment of a substantial vegetative cover, all erosion control devices shall be removed.

10. All material used as fill shall be clean sand/fill dirt/shell material and shall not be contaminated with vegetation, garbage, trash, tires, hazardous waste, and deleterious materials.

11. The permittee shall be responsible for ensuring that erosion control devices/procedures are inspected and maintained daily during all phases of construction authorized by this permit until all areas that were disturbed during construction are sufficiently stabilized to prevent erosion, siltation, and turbid discharges.

12. If any construction de-watering is required which results in an offsite discharge of groundwater, the permittee and/or the contractor shall ensure that the requirements of pertinent portions of Chapter 62-621, F.A.C. are met. Please contact the FDEP Wastewater Department at 850-595-8300, for more information.

13. A floating turbidity curtain shall be installed around the construction area and will remain in place until pilings have been installed and turbidity levels within the work area have returned to background levels prior to construction of the proposed activities.

14. Construction equipment shall not be repaired or refueled in wetlands or elsewhere within waters of the state.

15. Watercraft associated with the construction of the permitted structure shall operate within waters of sufficient depth to preclude bottom scouring, prop dredging or damage to submerged bottom or submerged resources. During all construction activities, there shall be a minimum of 1-foot clearance between the draft of the construction vessel/barge and the top of any submerged resources or submerged bottom.

16. "Riprap" shall consist of unconsolidated boulders, rocks, or clean concrete rubble with no exposed reinforcing rods or similar protrusions. The riprap shall be free of sediment, debris and toxins or otherwise deleterious substances. Riprap shall have a diameter of at least 12 inches to 3 feet.

17. Dredging shall be limited to day light; no dredging activities are authorized to be conducted at night.

18. No portion of the dredge pipeline, nor any related equipment, shall be stored, anchored on, or laid on or over seagrass beds without prior Department approval. Anchoring done to secure the dredge or equipment shall be done within the navigation channel or in areas where seagrass beds are not present during dredging and related activities.

19. Areas to be dredged shall be dredged in accordance with the attached permit drawings and shall not exceed the areas and depths indicated on those drawings. The dredged material shall be placed in a self-contained, upland disposal site. The disposal area shall be constructed in a manner which shall prevent the escape of dredged material and associated effluent into wetlands and surface waters. Discharge of water or dredged material to waters

of the State shall not be allowed during disposal or transport.

20. Any damage to wetlands outside of the authorized impact areas as a result of construction shall be immediately reported to the Department at (850)595-8300 and repaired by reestablishing the pre-construction elevations and replanting vegetation of the same species, size, and density as that in the adjacent areas. The restoration shall be completed within 30 days of completion of construction, and the Department shall be notified of its completion within that same 30-day period.

21. This permit authorizes permanent impacts to the wetland fill area shown on the permit drawing of only 0.016 acre. No other areas are authorized to be impacted, which includes but is not limited to clearing with the use of heavy equipment, filling, or excavation.

SPECIFIC CONDITIONS – OTHER LISTED SPECIES

22. This permit does not authorize the permittee to cause any adverse impact to or "take" of state listed species and other regulated species of fish and wildlife. Compliance with state laws regulating the take of fish and wildlife is the responsibility of the owner or permittee associated with this project. Please refer to Chapter 68A-27 of the Florida Administrative Code for definitions of "take" and a list of fish and wildlife species. If listed species are observed onsite, Florida Fish and Wildlife Conservation Commission (FWC) staff are available to provide decision support information or assist in obtaining the appropriate FWC permits. Most marine endangered and threatened species are statutorily protected and a "take" permit cannot be issued. Requests for further information or review can be sent to ConservationPlanningServices@MyFWC.com.

23. If new information (e.g. listing of new species, new critical habitat, etc.) shows that the magnitude of impacts to federally listed species has the potential for adverse effects, the U.S. Fish and Wildlife Service (USFWS) will notify the Department. The Department will initiate coordination with the permittee and with the USFWS to determine what adverse impacts are likely and if additional minimization measures, reporting, or monitoring are required in order to be consistent with the Endangered Species Act, as deemed necessary by USFWS.

24. The Permittee shall report any injured, sick, or dead federally or state listed animal(s) discovered onsite to the Florida Fish and Wildlife Conservation Commission Wildlife Alert number at 888-404-FWCC (3922).

25. The Standard Manatee Conditions for In-water Work (2011) shall be followed for all in-water activity.

26. The total number of slips, inclusive of all mooring and upland storage, shall be limited to 104 (26 wet slips and 78 dry slips).

27. To reduce the risk of entrapment and drowning of manatees, manatee exclusion devices (such as grating) shall be installed and maintained over any existing or proposed pipes or culverts greater than 8 inches, but smaller than 8 feet in diameter that are submerged or partially submerged and reasonably accessible to manatees. If horizontal or vertical bars are used, no more than 8-inch gaps on center shall be allowed. Grates shall be in place at the accessible

end(s) during all phases of the construction process and as a final design element to restrict manatee access.

28. Vertical lines shall be made of material which manatees, marine turtles, and other marine wildlife cannot become entangled. Lines that are not rigid in nature should be sleeved with PVC, hose, or other rigid material. Lines used in horizontal platforms must remain under tension or be sleeved to prevent entanglements. All lines shall be properly anchored or secured and shall be regularly monitored to avoid the entanglement of manatees, marine turtles, and other marine wildlife.
    a. The vertical lines and horizontal structures should be monitored daily for the first two weeks immediately after deployment and quarterly after the initial daily monitoring. All loose or broken lines must be repaired or removed at the time of inspection.
        i. All observations of marine turtles or manatees shall be included in the permittee's monitoring reports and the reports shall be provided to the FWC at ImperiledSpecies@MyFWC.com.
        ii. All injuries or entanglements of manatees or marine turtles shall be reported immediately to the FWC at 888-404-3922.

29. The Permittee shall install bins for the disposal or recycling of monofilament line or other used fishing gear, which shall be maintained for the life of the facility, no later than 60 days after construction commencement. Educational signs encouraging the use of these bins shall be posted. A proposal for the location of the bin and the sign shall be submitted to ImperiledSpecies@MyFWC.com. Signs shall be replaced in accordance with FWC guidance by the Permittee if outdated, damaged or faded.

30. During pier operations there shall be not trash, tackle, or fishing line discarded from any part of the pier. Large trash receptacles and signs shall be installed and maintained at key points along the pier to ensure adequate trash removal to approved upland disposal sites.

31. The Permittee shall install permanent manatee educational signs, which shall be maintained for the life of the facility, no later than 60 days after construction commencement. The number and types of signs, as well as the on-site locations shall be approved by FWC staff prior to installation. A proposal for FWC sign approval shall be submitted to ImperiledSpecies@MyFWC.com in accordance with information provided at https://myfwc.com/wildlifehabitats/wildlife/manatee/education-for-marinas/. Signs shall be replaced in accordance with FWC guidance by the Permittee if outdated, damaged, or faded.

32. All debris on the pier, in the water, entangled in the pilings, and on the sea floor (within a 30-yard radius of the pier) shall be cleaned quarterly. The amounts and types of debris recovered shall be reported quarterly to DEP with MarineTurtle@myfwc.com copied.

33. During operations of the pier, there shall be no discarding of dead fish, bait, or the remains of marine creatures from the pier structure. The adjacent rock revetments on both sides of the pier along the shoreline shall be inspected quarterly and cleaned of tackle, fishing line, bait, dead fish, and other trash washed up from the pier.

34. After all efforts to avoid direct impacts to SAV have been accomplished, we recommend that additional techniques to minimize direct and indirect adverse effects from shading to SAV should be employed. These techniques include elevating the dock structures to a minimum height of 5-feet above MHW/OHW and use of grated decking to increase light penetration through the dock structure. All light-transmitting materials used for dock construction shall have a minimum of forty-three (43) percent open space and follow the recommendations detailed in "Construction Guidelines in Florida for Minor Piling-Supported Structures Constructed in or over Submerged Aquatic Vegetation (SAV), Marsh, or Mangrove Habitat" (USACOE 2017).

SPECIFIC CONDITIONS – OPERATION AND MAINTENANCE ACTIVITIES

35. Depth indicators shall be installed and maintained for the life of the facility, to identify the controlling depths of the navigational access. Use of the ramp is prohibited if the depth indicator shows a navigational access below 2 feet mean low water.

36. There shall be a minimum 12-inch clearance between the deepest draft of the vessel (with the motor in the down position) and the top of submerged resources at mean low water.

37. Overboard or through hull discharges of trash, human or animal waste, gray water, or fuel shall not occur at the docking facility.

38. The authorized stormwater management system shall be completed prior to or simultaneously with associated upland development.

39. Once project construction has been deemed complete, including the re-stabilization of all side slopes, embankments, and other disturbed areas, and before the transfer to the Operation and Maintenance phase, all obsolete erosion control materials shall be removed.

40. The permittee shall be responsible for keeping records documenting that relevant permit conditions are met. This documentation shall include, at a minimum, the date of each inspection, the name and qualifications of the inspector, any maintenance actions taken, and a determination by the inspector as to whether the system is operating as intended. Inspection documentation must be readily available and shall be provided at the Department's request.

41. In addition to these conditions, the Permittee shall comply with all maintenance and inspection requirements prescribed in the Maintenance and Operation Plan developed by the registered professional who designed the system.

42. All structures authorized by this permit shall remain in operable condition and shall not be allowed to deteriorate or otherwise contribute to a water quality violation for the life of the facility. All stormwater structures identified by this permit shall be maintained in proper working order for the life of the facility.

43. The wet detention area shall be inspected periodically for debris and trash built up around the discharge structures. Accumulations of debris and trash that negatively affect the function of the system shall be removed upon discovery.

44. Signs shall be posted a minimum of every 100 feet around the perimeter of all wet detention ponds stating "Stormwater Treatment Pond – No mowing or spraying of aquatic vegetation allowed unless authorized by FDEP. Call 850-595-8300 for more information." These information signs shall be installed prior to the Transfer to Operation Phase and are required for the proper operation and maintenance of the stormwater treatment system.

45. The stormwater management system shall be inspected by a registered professional or qualified registered inspector to evaluate whether the system is functioning as designed and permitted. The registered professional or qualified registered inspector shall record his inspection on Form No. 62-330.311(1), Operation and Maintenance Inspection Certification. Within 30 days of their inspection, the registered professional or qualified registered inspection shall submit Form No. 62-330.311(1) along with, as applicable, Form No. 62-330.311(3) "Inspection Checklists", updated operation and maintenance cost estimates, updated operation and maintenance plan, and any monitoring reports required by a specific permit condition. Inspections shall be made by the registered professional in accordance with this schedule:
    a. On the first anniversary of the date of conversion to Operation and Maintenance Phase.
    b. Every third year on the anniversary of conversion to Operation and Maintenance phase, after the first year of successful operation.

46. Within 30 days of any failure of a stormwater management system or deviation from the permit, a report shall be submitted to the Department on Form 62-330.311(1), Operation and Maintenance Inspection Certification, describing the remedial actions taken to resolve the failure or deviation. This report shall be signed and sealed by a registered professional.

GENERAL CONDITIONS FOR INDIVIDUAL PERMITS

The following general conditions are binding on all individual permits issued under chapter 62-330, F.A.C., except where the conditions are not applicable to the authorized activity, or where the conditions must be modified to accommodate project-specific conditions.

1. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, F.A.C. Any deviations that are not so authorized may subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.

2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.

3. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices

shall be in accordance with the *State of Florida Erosion and Sediment Control Designer and Reviewer Manual* (Florida Department of Environmental Protection and Florida Department of Transportation June 2007), and the *Florida Stormwater Erosion and Sedimentation Control Inspector's Manual* (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), which are both incorporated by reference in subparagraph 62-330.050(9)(b)5., F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.

4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice," [October 1, 2013], which is incorporated by reference in paragraph 62-330.350(1)(d), F.A.C., indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5), F.A.C. If available, an Agency website that fulfills this notification requirement may be used in lieu of the form.

5. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.

6. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:
   a. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex – "Construction Completion and Inspection Certification for Activities Associated With a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or
   b. For all other activities – "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)].
   c. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.

7. If the final operation and maintenance entity is a third party:
   a. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as- built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.3 of Volume I) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.
   b. Within 30 days of submittal of the as- built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

8. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.

9. This permit does not:
   a. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
   b. Convey to the permittee or create in the permittee any interest in real property;
   c. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
   d. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.

10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.

11. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.

12. The permittee shall notify the Agency in writing:
   a. Immediately if any previously submitted information is discovered to be inaccurate; and
   b. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.

13. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.

14. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, work involving subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification shall be provided in accordance with Section 872.05, F.S.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered

binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.

16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.

17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.

18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with subsection 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

19. In addition to those general conditions in subsection (1), above, the Agency shall impose any additional project-specific special conditions necessary to assure the permitted activities will not be harmful to the water resources, as set forth in rules 62-330.301 and 62-330.302, F.A.C., Volumes I and II, as applicable, and the rules incorporated by reference in this chapter.

NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until a subsequent order of the Department. Because the administrative hearing process is designed to formulate final agency action, the subsequent order may modify or take a different position than this action.

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rules 28-106.201 and 28-106.301, F.A.C., a petition for an administrative hearing must contain the following information:

(a) The name and address of each agency affected and each agency's file or identification number, if known;
(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination;
(c) A statement of when and how the petitioner received notice of the agency decision;
(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
(f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
(g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@FloridaDEP.gov. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant and persons entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the notice or within 14 days of receipt of the written notice, whichever occurs first. You cannot justifiably rely on the finality of this decision unless notice of this decision and the right of substantially affected persons to challenge this decision has been duly published or otherwise provided to all persons substantially affected by the decision. While you are not required to publish notice of this action, you may elect to do so pursuant to Rule 62-110.106(10)(a).

The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C. If you do not publish notice of this action, this waiver will not apply to persons who have not received written notice of this action.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@FloridaDEP.gov, before the deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

Thank you for applying to the Submerged Lands and Environmental Resource Permit Program. If you have any questions regarding this matter, please contact Emily Hotinger or Savannah Cowen at the letterhead address, at (850)595-0651 or (850)595-0640, or at Emily.Hotinger@FloridaDEP.gov or Savannah.Cowen@FloridaDEP.gov

EXECUTION AND CLERKING
Executed in Pensacola, Florida.
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Elizabeth Mullins Orr

Elizabeth Mullins Orr
District Director

EMO:eh:sc

Attachments:
Exhibit 1, Standard Manatee Conditions for In-Water Work, 2 pages
Exhibit 2, Project Drawings and Design Specs. Upland Development, 32 pages
Exhibit 3, Project Drawings and Design Specs. Waterfront Development, 25 pages
Exhibit 4, Operation and Maintenance Plan, 6 pages

Copies of 62-330 forms may be obtained at: https://floridadep.gov/water/submerged-lands-environmental-resources-coordination/content/forms-environmental-resource

CERTIFICATE OF SERVICE
The undersigned duly designated deputy clerk hereby certifies that this document and all attachments were sent on the filing date below to the following listed persons:

Elizabeth Mullins Orr, FDEP, Elizabeth.Orr@FloridaDEP.gov
Kimberly R. Allen, FDEP, Kim.Allen@FloridaDEP.gov
Blake Chapman, FDEP, Blake.A.Chapman@FloridaDEP.gov
Russell Sullivan, FDEP, Russell.Sullivan@FloridaDEP.gov
Emily Hotinger, FDEP, Emily.Hotinger@FloridaDEP.gov
Savannah Cowen, FDEP, Savannah.Cowen@FloridaDEP.gov
Jeffrey Cozadd, City of Destin, jcozadd@cityofdestin.com
Pearce Barrett, FDEP, Pearce.Barrett@floridadep.gov
Kierstin Masse, Taylor Engineering, kmasse@taylorengineering.com
Duncan Greer, Taylor Engineering, dgreer@taylorengineering.com
FWC: ryan.byrne@myfwc.com, ConservationPlanningServices@myfwc.com
USACE, Terry.S.Hayes@usace.army.mil
City of Destin, planning@cityofdestin.com
Okaloosa County, mmartinez@myokaloosa.com, jautrey@myokaloosa.com, sbitterman@myokaloosa.com, roadinfo@myokaloosa.com, propertyappraiser@okaloosapa.com

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, F.S., with the designated Department Clerk, receipt of which is hereby acknowledged.

Miranda Coffey

January 24, 2025

Clerk **Date**

STANDARD MANATEE CONDITIONS FOR IN-WATER WORK
2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.

b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.

d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.

e. Any collision with or injury to a manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or Vero Beach (1-772-562-3909) for south Florida, and to FWC at ImperiledSpecies@myFWC.com

f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the FWC must be used. One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8 ½" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. These signs can be viewed at MyFWC.com/manatee. Questions concerning these signs can be sent to the email address listed above.

CAUTION: MANATEE HABITAT

All project vessels

IDLE SPEED / NO WAKE

When a manatee is within 50 feet of work
all in-water activities must

SHUT DOWN

Report any collision with or injury to a manatee:

Wildlife Alert:

1-888-404-FWCC(3922)

cell *FWC or #FWC

DEMOLITION NOTES

1. ALL EXISTING SIGNAGE TO BE REMOVED AND STORED ON SITE. CONTRACTOR TO REPLACE SIGNS AS DIRECTED BY THE CITY OF DESTIN AT THE END OF THE BEACH DRIVE RIGHT OF WAY CONSTRUCTION.
2. REMOVE AND STORE ONSITE THE EXISTING MEMORIAL AND FLAGPOLE. RELOCATE ONSITE AT THE DIRECTION OF THE CITY
3. REMOVAL OF OVERHEAD POWER TO BE COORDINATED WITH FLORIDA POWER & LIGHT (850) 244-4747
4. ALL ASPHALT, GRAVEL, MILL CHIPS AND OTHER STRUCTURES TO BE DEMOLISHED SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.
5. CONTRACTOR TO VISIT THE SITE PRIOR TO BIDDING TO ACCESS THE CONDITIONS AND PRICE THE WORK ACCORDINGLY.
6. CONTRACTOR TO COORDINATE WITH THE CITY OF DESTIN FOR ANY BEACH DRIVE ROAD CLOSURE REQUIRED. PROPER SIGNAGE SHALL BE INSTALLED AD NOTICE SHALL BE GIVEN TO THE PUBLIC ONE WEEK AHEAD OF CLOSURES.

LEGEND

- EXISTING BUILDING TO BE REMOVED
- EXISTING BOARDWALK TO BE REMOVED
- EXISTING ASPHALT PAVEMENT TO BE REMOVED
- EXISTING GRAVEL TO BE REMOVED
- EXISTING RIPRAP TO BE REMOVED
- EXISTING CONCRETE TO BE REMOVED
- EXISTING GIANT REED TO BE REMOVED
- EXISTING TREE TO BE REMOVED

NORTH

0 30 60

SCALE IN FEET

207 LF OF WOOD RETAINING WALL TO BE REMOVED
450 SF OF EXISTING GRAVEL TO BE REMOVED
1,402 SF OF EXISTING GRAVEL TO BE REMOVED
DEMOLISH STEEL MOORING PIN AND CONCRETE BASE
WOOD RETAINING WALL
CONCRETE RETAINING WALL
MOORING PIN
SEE TAYLOR ENGINEERING DRAWING FOR STRUCTURES OVER SUBMERGED LANDS
35,068 SF OF EXISTING GRAVEL TO BE REMOVED
255 LF OF CONCRETE RETAINING WALL TO BE REMOVED
5,554 SF OF EXISTING ASPHALT TO BE REMOVED
292 SF OF EXISTING CONCRETE TO BE REMOVED
308 SF OF EXISTING BUILDING TO BE REMOVED
786 SF OF EXISTING BOARDWALK TO BE REMOVED
EXISTING GAS SERVICE TO BE REMOVED
797 SF OF EXISTING BOARDWALK TO BE REMOVED
2,525 SF OF EXISTING BOAT RAMP TO BE REMOVED
843 SF OF EXISTING BOARDWALK TO BE REMOVED
SEE TAYLOR ENGINEERING DRAWING FOR STRUCTURES OVER SUBMERGED LANDS
2,098 SF OF EXISTING BOAT RAMP TO BE REMOVED
951 SF OF EXISTING BOARDWALK TO BE REMOVED
SEE TAYLOR ENGINEERING DRAWING FOR STRUCTURES OVER SUBMERGED LANDS
825 SF OF EXISTING BOAT RAMP TO BE REMOVED
183 SF OF EXISTING CONCRETE TO BE REMOVED
EXISTING UTILITY POLE TO BE REMOVED
EXISTING CONCRETE BOLLARDS TO BE REMOVED
RELOCATE MEMORIAL AND FLAGPOLE
66 LF OF EXISTING STORM WATER PIPE AND STRUCTURES TO BE REMOVED
340 SF OF EXISTING BOARDWALK TO BE REMOVED
3,145 SF OF EXISTING GRAVEL TO BE REMOVED
41 LF OF EXISTING STORM WATER PIPE AND STRUCTURES TO BE REMOVED
307 LF OF EXISTING STORM WATER PIPE TO BE REMOVED
EXISTING LIFT STATION AND SANITARY SEWER TO BE REMOED
EXISTING UTILITY POLE TO BE REMOVED
58,673 SF OF EXISTING ASPHALT TO BE REMOVED
EXISTING UTILITY POLE TO BE REMOVED
39 LF OF EXISTING STORM WATER PIPE AND STRUCTURE TO BE REMOVED
307 LF OF EXISTING STORM WATER PIPE TO BE REMOVED
OVERHEAD ELECTRIC TO BE REMOVED
EX. POND
EXISTING FENCE TO BE REMOVED
(REFERENCE BEARING)
N26°59'27"W 804.16' (F)
N27°53'23"W 843.08' (D)
2,187 SF OF EXISTING CONCRETE TO BE REMOVED
BEACH DRIVE
100' PUBLIC R/W
4,850 SF OF EXISTING CONCRETE TO BE REMOVED
22 LF OF EXISTING CURB AND GUTTER TO BE REMOVED
493 SF OF EXISTING GRAVEL TO BE REMOVED
191 SF OF EXISTING ASPHALT TO BE REMOVED AND REPLACED
EXISTING SPEED TABLE
449 SF OF
32 LF OF EXISTING STORM WATER PIPE AND STRUCTURES TO BE REMOVED
EXISTING BFP AND WATER SERVICE TO BE REMOVED
705 SF OF EXISTING CONCRETE TO BE REMOVED
107 LF OF EXISTING STORM WATER PIPE AND STRUCTURE TO BE REMOVED
232 SF OF EXISTING CONCRETE TO BE REMOVED

halff
2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL
DAVID W. HUTCHESON LICENSE No 38670 STATE OF FLORIDA PROFESSIONAL ENGINEER

David W Hutcheson
Digitally signed by David W Hutcheson
DN: cn=David W Hutcheson, o=US, ou=Halff, email=DHUTCHESON@HALFF.COM
Date: 2024.11.25 09:38:50 -05'00'

ENG DAVID W. HUTCHESON, PE. 38670

PROJECT TITLE
JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

Call 811 before you dig.

PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

DEMOLITION PLAN SOUTHERN

C1.1

SHEET 1 OF 32

RYAN TRUBIA, 11/25/2024 8:28:11 AM, A:\40000s\40190\100\SCADD\Sheets\TLH40190.003_Layout_90%.dwg

DEMOLITION NOTES

1. ALL EXISTING SIGNAGE TO BE REMOVED AND STORED ON SITE. CONTRACTOR TO REPLACE SIGNS AS DIRECTED BY THE CITY OF DESTIN AT THE END OF THE BEACH DRIVE RIGHT OF WAY CONSTRUCTION.
2. REMOVE AND STORE ONSITE THE EXISTING MEMORIAL AND FLAGPOLE. RELOCATE ONSITE AT THE DIRECTION OF THE CITY
3. REMOVAL OF OVERHEAD POWER TO BE COORDINATED WITH FLORIDA POWER & LIGHT (850) 244-4747
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LEGEND

- EXISTING BUILDING TO BE REMOVED
- EXISTING BOARDWALK TO BE REMOVED
- EXISTING ASPHALT PAVEMENT TO BE REMOVED
- EXISTING GRAVEL TO BE REMOVED
- EXISTING RIPRAP TO BE REMOVED
- EXISTING CONCRETE TO BE REMOVED
- EXISTING GIANT REED TO BE REMOVED
- EXISTING TREE TO BE REMOVED

NORTH

0 30 60

SCALE IN FEET

3,145 SF OF EXISTING GRAVEL TO BE REMOVED

SEE TAYLOR ENGINEERING DRAWING FOR STRUCTURES OVER SUBMERGED LANDS

EXISTING UTILITY POLE TO BE REMOVED

OVERHEAD ELECTRIC TO BE REMOVED

EXISTING UTILITY POLE TO BE REMOVED

EXISTING STORM WATER PIPE AND STRUCTURES TO BE REMOVED

EXISTING FENCE TO BE REMOVED

(REFERENCE BEARING) N26°59'27"W 804.46' (F) N27°53'23"W 844.08' (D)

2,187 SF OF EXISTING CONCRETE TO BE REMOVED

BEACH DRIVE
100' PUBLIC R/W

4,850 SF OF EXISTING CONCRETE TO BE REMOVED

22 LF OF EXISTING CURB AND GUTTER TO BE REMOVED

493 SF OF EXISTING GRAVEL TO BE REMOVED

191 SF OF EXISTING ASPHALT TO BE REMOVED AND REPLACED

32 LF OF EXISTING STORM WATER PIPE AND STRUCTURES TO BE REMOVED

EXISTING SPEED TABLE TO BE REMOVED AND REPLACED

449 SF OF EXISTING CONCRETE TO BE REMOVED

760 SF OF EXISTING CONCRETE TO BE REMOVED

42 LF OF EXISTING STORM WATER PIPE AND STRUCTURES TO BE REMOVED

REMOVE AND RELOCATE DOG WASTE BIN

1,137 SF OF EXISTING CONCRETE TO BE REMOVED

337 SF OF EXISTING CONCRETE TO BE REMOVED

EXISTING STRUCTURE TO BE REMOVED

16,025 SF OF EXISTING GRAVEL TO BE REMOVED

PARTIAL DEMOLITION SEE BOARDWALK DEMOLITION SHEETS FOR DETAILS

RYAN TRUBIA, 11/25/2024 8:28:16 AM, A:\40000s\40190\003\CADD\Sheets\TLH40190.003_Layout_90%.dwg

halff
2255 KILLEARN CENTER BLVD., SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

DAVID W. HUTCHESON LICENSE No 38670 STATE OF FLORIDA PROFESSIONAL ENGINEER

David W Hutcheson

Digitally signed by David W Hutcheson
DN: cn=David W Hutcheson, c=US, o=Halff, email=DHUTCHESON@HALFF.COM
Date: 2024.11.25 09:39:31 -05'00'

ENG DAVID W. HUTCHESON, PE. 38670

PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

Call 811 before you dig.

PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

DEMOLITION PLAN WESTERN

C1.2

SHEET 2 OF 32

DEMOLITION NOTES

1. ALL EXISTING SIGNAGE TO BE REMOVED AND STORED ON SITE. CONTRACTOR TO REPLACE SIGNS AS DIRECTED BY THE CITY OF DESTIN AT THE END OF THE BEACH DRIVE RIGHT OF WAY CONSTRUCTION.
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LEGEND

- EXISTING BUILDING TO BE REMOVED
- EXISTING BOARDWALK TO BE REMOVED
- EXISTING ASPHALT PAVEMENT TO BE REMOVED
- EXISTING GRAVEL TO BE REMOVED
- EXISTING RIPRAP TO BE REMOVED
- EXISTING CONCRETE TO BE REMOVED
- EXISTING GIANT REED TO BE REMOVED
- EXISTING TREE TO BE REMOVED

NORTH

0 30 60

SCALE IN FEET

183 SF OF EXISTING CONCRETE TO BE REMOVED

3,145 SF OF EXISTING GRAVEL TO BE REMOVED

SEE TAYLOR ENGINEERING DRAWING FOR STRUCTURES OVER SUBMERGED LANDS

SEE TAYLOR ENGINEERING DRAWING FOR STRUCTURES OVER SUBMERGED LANDS

EXISTING UTILITY POLE TO BE REMOVED

EXISTING STORM WATER PIPE AND STRUCTURES TO BE REMOVED

EXISTING FENCE TO BE REMOVED

SEE TAYLOR ENGINEERING DRAWING FOR STRUCTURES OVER SUBMERGED LANDS

4,850 SF OF EXISTING CONCRETE TO BE REMOVED

BEACH DRIVE
100' PUBLIC R/W

760 SF OF EXISTING CONCRETE TO BE REMOVED

42 LF OF EXISTING STORM WATER PIPE AND STRUCTURES TO BE REMOVED

REMOVE AND RELOCATE DOG WASTE BIN

NORTH 54.68' (D)
N00°53'56"E 49.80' (F)

(REFERENCE BEARING)
N26°59'27"W 804.16' (F)
N27°53'23"W 844.08' (D)

N26°59'27"W 714.03' (F)

halff
2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

DAVID W. HUTCHESON LICENSE No 38670 STATE OF FLORIDA PROFESSIONAL ENGINEER

David W Hutcheson

Digitally signed by David W Hutcheson
DN: cn=David W Hutcheson, c=US, o=Florida, email=DHUTCHESON@HALFF.COM
Date: 2024.11.25 09:39:51 -05'00'

ENG DAVID W. HUTCHESON, PE. 38670

PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

Call 811 before you dig.

PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

DEMOLITION PLAN NORTHERN

C1.3

SHEET 3 OF 32

RYAN TRUBIA, 11/25/2024 8:28:21 AM, A:\40000s\40190\003\CADD\Sheets\T1\H40190_003_Layout_80%.dwg

Trees To Remain		
Point Number	Size	Tree Type
4783	12"	MAG
4784	18"	PINE
4785	12"	PINE
4786	16"	PINE
4787	16"	PINE
4788	16"	PINE
4789	16"	PINE
4790	16"	PINE
4791	16"	PINE
4792	12"	PINE
4793	12"	PINE
4794	22"	PINE
4795	14"	PINE
4796	14"	PINE
4797	20"	PINE
4798	16"	OAK
4799	22"	PINE
4800	20"	PINE
4801	20"	PINE
4802	18"	PINE
4803	16"	PINE
4804	18"	PINE
4805	14"	PINE
4806	18"	PINE
4807	20"	PINE
4808	20"	PINE
4809	14"	PINE
4810	12"	PINE
4811	14"	PINE
4812	22"	PINE
4813	12"	PINE
4814	12"	PINE
4815	12"	PINE
4816	14"	PINE
4817	14"	PINE
4818	18"	PINE
4819	24"	PINE
4820	16"	PINE
4821	16"	PINE
4822	12"	MAG
4823	20"	OAK
4824	20"	OAK
4825	20"	OAK
4826	14"	OAK
4827	16"	OAK
4828	22"	PINE
4829	15"	BIRCH
4834	22"	PINE
42	14"	PINE
43	12"	PINE
101	14"	PINE
121	16"	PINE
122	11"	PINE
123	15"	PINE
124	15"	PINE
125	10"	PINE
126	11"	PINE
127	19"	PINE
128	15"	PINE
129	22"	PINE
130	13"	PINE
131	11"	PINE
133	18"	PINE
296	21"	PINE
297	18"	PINE
298	15"	PINE
299	15"	PINE
300	16"	PINE
301	13"	PINE
302	17"	PINE
304	22"	PINE
306	16"	PINE
308	25"	PINE
344	13"	PINE
345	14"	PINE
346	28"	PINE
347	22"	PINE
412	14"	PINE
413	18"	PINE
414	14"	PINE
425	14"	PINE
427	12"	PINE
428	16"	PINE
430	12"	PINE
431	12"	PINE
432	12"	PINE

Trees To Remain		
Point Number	Size	Tree Type
433	10"	PINE
446	22"	PINE
447	22"	PINE
448	24"	PINE
450	20"	PINE
451	21"	PINE
452	27"	PINE
453	24"	PINE
454	15"	PINE
455	16"	PINE
456	15"	PINE
459	21"	PINE
460	21"	PINE
461	19"	PINE
462	12"	PINE
465	23"	PINE
466	20"	PINE
467	22"	PINE
468	14"	PINE
471	18"	PINE
472	20"	PINE
473	19"	PINE
474	16"	PINE
475	13"	PINE
476	17"	PINE
477	16"	PINE
478	13"	PINE
479	10"	PINE
480	15"	PINE
481	18"	PINE
482	14"	PINE
483	17"	PINE
485	12"	PINE
486	13"	PINE
487	15"	PINE
491	12"	PINE
493	11"	PINE
494	12"	PINE
496	16"	PINE
497	14"	PINE
498	16"	PINE
499	18"	PINE
523	12"	PINE
524	12"	PINE
525	11"	PINE
526	13"	PINE
527	18"	PINE
528	10"	PINE
529	13"	PINE
531	12"	PINE
532	12"	PINE
533	12"	PINE
547	18"	PINE
548	12"	PINE
549	14"	PINE
550	13"	PINE
551	10"	PINE
553	12"	PINE
554	19"	PINE
555	13"	PINE
556	15"	PINE
557	16"	PINE
558	11"	PINE
559	13"	PINE
560	15"	PINE
561	13"	PINE
562	18"	PINE
564	12"	PINE
565	31"	PINE
566	19"	PINE
567	18"	PINE
795	12"	PINE
819	14"	PEAR
820	19"	PALM
821	19"	PALM
822		
826	14"	OAK
840	10"	OAK
843	17"	CEDAR

Trees To Be Removed		
Point Number	Size	Tree Type
4503	12"	CEDAR
4504	14"	PINE
4510	16"	PINE
4512	14"	PINE
4513	16"	PINE
4514	16"	PINE
4515	14"	PINE
4516	14"	PINE
4517	12"	PINE
4518	14"	PINE
4519	14"	PINE
4522	18"	PINE
4523	18"	PINE
4524	12"	PINE
4525	12"	PINE
4526	12"	PINE
4603	12"	PINE
4607	16"	PINE
4608	16"	PINE
4609	12"	PINE
4610	16"	PINE
27	13"	PINE
28	14"	PINE
29	10"	PINE
30	17"	PINE
31	11"	PINE
33	12"	PINE
34	12"	PINE
35	14"	PINE
36	13"	PINE
37	13"	PINE
39	10"	PINE
40	15"	PINE
41	13"	PINE
44	17"	PINE
45	13"	PINE
46	10"	PINE
63	12"	PINE
102	19"	PINE
103	19"	PINE
104	19"	PINE
105	20"	PINE
106	14"	PINE
107	13"	PINE
134	12"	PINE
135	21"	PINE
136	13"	PINE
137	17"	PINE
138	14"	PINE
139	17"	PINE
140	22"	PINE
141	18"	PINE
142	14"	PINE
143	15"	PINE
144	23"	PINE
145	12"	PINE
146	15"	PINE
147	23"	PINE
148	17"	PINE
149	15"	PINE
150	19"	PINE
151	12"	PINE
153	12"	PINE
154	11"	PINE
155	12"	PINE
157	12"	PINE
159	12"	PINE
160	13"	PINE
161	10"	PINE
162	11"	PINE
163	11"	PINE
164	10"	PINE
165	16"	PINE
166	11"	PINE
167	15"	PINE
168	14"	PINE
169	14"	PINE
170	11"	PINE

Trees To Be Removed		
Point Number	Size	Tree Type
171	12"	PINE
172	11"	PINE
173	11"	PINE
176	12"	PINE
177	13"	PINE
178	12"	PINE
179	11"	PINE
180	13"	PINE
181	12"	PINE
182	13"	PINE
183	12"	PINE
185	10"	PINE
186	13"	PINE
187	11"	PINE
188	12"	PINE
190	11"	PINE
191	10"	PINE
194	10"	PINE
197	10"	PINE
198	12"	PINE
199	12"	PINE
200	12"	PINE
201	10"	PINE
202	10"	PINE
203	11"	PINE
204	10"	PINE
206	14"	PINE
208	10"	PINE
209	10"	PINE
211	12"	PINE
212	11"	PINE
213	11"	PINE
214	10"	PINE
216	17"	PINE
217	17"	PINE
218	18"	PINE
219	10"	PINE
220	10"	PINE
221	15"	PINE
222	13"	PINE
223	12"	PINE
224	15"	PINE
225	11"	PINE
226	17"	PINE
227	10"	PINE
228	10"	PINE
229	11"	PINE
230	18"	PINE
231	13"	PINE
232	15"	PINE
233	12"	PINE
235	12"	PINE
237	14"	PINE
238	16"	PINE
239	10"	PINE
240	12"	PINE
242	11"	PINE
243	12"	PINE
244	12"	PINE
245	11"	PINE
246	14"	PINE
248	10"	PINE
249	12"	PINE
251	17"	PINE
253	13"	PINE
254	10"	PINE
255	12"	PINE
256	12"	PINE
257	12"	PINE
258	15"	PINE
259	13"	PINE
260	15"	PINE
261	12"	PINE
262	12"	PINE

Trees To Be Removed		
Point Number	Size	Tree Type
263	12"	PINE
264	17"	PINE
265	17"	PINE
266	13"	PINE
267	16"	PINE
271	14"	PINE
277	14"	PINE
278	12"	PINE
280	12"	PINE
286	13"	PINE
287	12"	PINE
288	12"	PINE
289	12"	PINE
290	15"	PINE
291	16"	PINE
292	10"	PINE
293	14"	PINE
294	12"	PINE
295	20"	PINE
303	16"	PINE
307	16"	PINE
309	12"	PINE
311	17"	PINE
313	11"	PINE
315	14"	PINE
326	18"	PINE
327	14"	PINE
330	13"	PINE
331	16"	PINE
332	14"	PINE
333	16"	PINE
334	16"	PINE
335	18"	PINE
336	15"	PINE
341	11"	PINE
348	15"	PINE
469	18"	PINE
470	20"	PINE
563	17"	PINE
823	12"	OAK
824	10"	OAK
825	13"	OAK
827	11"	OAK
828	18"	OAK
829	14"	OAK
830	10"	OAK
831	12"	OAK
832	12"	OAK
833	17"	OAK
834	20"	OAK
835	18"	OAK
836	10"	OAK
837	10"	OAK
838	18"	OAK
839	13"	OAK
841	12"	OAK
842	15"	CEDAR

halff
2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

DAVID W. HUTCHESON
LICENSE
No 38670
STATE OF FLORIDA
PROFESSIONAL ENGINEER

David W Hutcheson

Digitally signed by David W Hutcheson
DN: cn=David W Hutcheson, c=US, o=Florida, e=DHUTCHESON@HALFF.COM
Date: 2024.12.09 08:40:58 -06'00'

ENG DAVID W. HUTCHESON, PE. 38670

PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

Call 811 before you dig.

PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

TREE SCHEDULE

C2

SHEET 4 OF 32

RYAN TRUBIA, 11/25/2024 8:28:21 AM, A:\40000s\40190\003\3CAD\Sheets\TLH\40190.003_Layout_90%.dwg

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND ENGINEER AND THEIR RESPECTIVE REPRESENTATIVES, AGENTS, AND EMPLOYEES, IN BOTH INDIVIDUAL AND OFFICIAL CAPACITIES, AGAINST ALL LAWSUITS, CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEY FEES, CAUSED BY, RESULTING FROM, AND/OR INCIDENTAL TO THE PERFORMANCE OF THE WORK UNDER THIS CONTRACT TO THE FULL EXTENT AS ALLOWED BY THE LAWS OF THE STATE OF FLORIDA AND NOT BEYOND ANY EXTENT WHICH WOULD RENDER THESE PROVISIONS VOID OR UNENFORCEABLE. IN THE EVENT OF ANY SUCH INJURY, DEATH, LOSS, OR DAMAGE, OR CLAIMS THEREOF, THE CONTRACTOR SHALL GIVE PROMPT NOTICE TO THE OWNER AND THE ENGINEER.

DEFINITIONS

1. OWNER: CITY OF DESTIN / FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
2. ENGINEER: OWNER'S DESIGNATED REPRESENTATIVE FOR CONSTRUCTION, OBSERVATION, AND ADMINISTRATION.
3. ENGINEER OF RECORD (EOR): ENGINEER WHOSE NAME AND SEAL IS AFFIXED TO THE DRAWINGS AND SPECIFICATIONS OF APPLICABLE WORK.

GENERAL NOTES:

1. ALL WORK PERFORMED SHALL BE GOVERNED BY THE FOLLOWING STANDARDS:
   - 1.A. FLORIDA BUILDING CODE: 2023
   - 1.B. FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION: FY2023-24
   - 1.C. FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION: FY2023-24
2. THE CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE DURING BIDDING AND PRIOR TO INITIATING ANY CONSTRUCTION. PRIOR TO INITIATING WORK, CONTRACTOR SHALL PHOTOGRAPHICALLY DOCUMENT THE CONDITIONS IN AND AROUND THE JOE'S BAYOU RECREATION AREA IMPROVEMENTS WITH COLOR DIGITAL PHOTOGRAPHS. PHOTOS SHALL BE PROVIDED TO THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE AT THE PRE-CONSTRUCTION MEETING. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING CONDITIONS THAT ARE TO REMAIN, WITH SAID PHOTOS TO SUPPORT CONDITIONS AT THE SITE.
3. THE CONTRACTOR SHALL, PRIOR TO ANY CONSTRUCTION ACTIVITY, HOLD A PRE-CONSTRUCTION MEETING WITH ALL PERMITTING AGENCIES INVOLVED, INCLUDING CITY OF DESTIN, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) NORTHWEST DISTRICT, AND NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT.
4. THE CONTRACTOR SHALL LOCATE AND FIELD VERIFY ALL STRUCTURES AND EXISTING UTILITIES (ABOVE GROUND AND BELOW GROUND), WHETHER SHOWN OR NOT ON THE DRAWINGS, BEFORE BEGINNING WORK. CONTRACTOR SHALL ALSO FIELD VERIFY ALL DIMENSIONS AND QUANTITIES.
5. ONCE MOBILIZED, CONTRACTOR MUST WORK ON THE PROJECT CONTINUOUSLY WITHOUT ABSENCES FROM THE SITE UNLESS APPROVED BY THE OWNER.
6. THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING THEMSELVES, THEIR PERSONNEL, AND SUB-CONTRACTORS WITH THE DRAWINGS, SPECIFICATIONS, REGULATORY AUTHORIZATIONS, AND ALL OTHER CONTRACT DOCUMENTS.
7. ALL WORK SHALL CONFORM TO THE CONSTRUCTION DRAWINGS, SPECIFICATIONS, REGULATORY AUTHORIZATIONS, AND ANY OTHER CONTRACT DOCUMENTS. THE CONTRACTOR SHALL POST AT THE PROJECT SITE ALL PERMIT NOTICES AND COMPLY WITH ALL TERMS OF THE PERMITS AS PERTAINING TO THE WORK.
8. CONTRACTOR SHALL CHECK PLANS FOR CONFLICTS AND DISCREPANCIES AND NOTIFY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE OF ANY CONFLICTS BEFORE PERFORMING WORK IN THE AFFECTED AREA AND SHALL ALLOW 48 HOURS FOR THE EOR TO RESPOND.
9. THE CONTRACTOR SHALL CONDUCT CONSTRUCTION AND COORDINATE WITH THE OWNER AND ENGINEER IN SUCH A WAY AS TO ENSURE PUBLIC AND PRIVATE SAFETY IN AND AROUND THE CONSTRUCTION SITE.
10. SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR.
11. ALL SUBSURFACE CONSTRUCTION SHALL COMPLY WITH THE "TRENCH SAFETY ACT", CHAPTER 553.60-553.64, FLORIDA STATUTES. CONTRACTOR SHALL INSURE THAT THE METHOD OF TRENCH PROTECTION AND CONSTRUCTION IS IN COMPLIANCE WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.
12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE FOLLOWING IN THE FIELD: RIGHT OF WAY LINES, BENCHMARKS, CENTER LINES, AND STATIONING AS MAY BE REQUIRED TO CONSTRUCT THE PROJECT.
13. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE WORK FOR INSPECTION BY THE ENGINEER, REGULATORY AGENCIES, AND OWNER.
14. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE ENGINEER AS NECESSARY FOR CONSTRUCTION INSPECTION AND AS-BUILT CERTIFICATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT APPROPRIATE AND APPROVED TIMES DURING THE COURSE OF THE WORK THAT THE CONTRACTOR IS READY FOR INSPECTION. WORK THAT IS ASSEMBLED OR COVERED SO THAT THE ENGINEER CANNOT INSPECT THE WORK PROPERLY SHALL BE DISASSEMBLED, UNCOVERED, OR DESTROYED AS NECESSARY FOR INSPECTION. THE COSTS OF REPAIR OR RESTORATION OF THIS WORK SHALL BE BORNE SOLELY BY THE CONTRACTOR.
15. THE CONTRACTOR SHALL PROVIDE PERSONNEL AND EQUIPMENT FOR ENGINEER TO INSPECT AND INQUIRE ABOUT THE WORK. THIS MAY INCLUDE BUT NOT BE LIMITED TO PROJECT MANAGERS, SUPERINTENDENTS, FOREMEN, LABORERS, LADDERS, HARD HATS, LIFTS, SCAFFOLDING, BOATS, MEASURING DEVICES, SURVEY EQUIPMENT.
16. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SHORING, BRACING, OR OTHER MEANS/METHODS NECESSARY TO STABILIZE ALL STRUCTURES (OR STAGED MATERIAL) UNTIL COMPLETED WITH ALL COMPONENTS INSTALLED. UNLESS SPECIFICALLY STATED ON THE DRAWINGS, THE CONTRACTOR SHALL ASSUME THE EOR HAS ONLY DESIGNED THE STRUCTURE(S) FOR THE FINAL CONSTRUCTED AND ASSEMBLED STATE AS SHOWN ON THE DRAWINGS.
17. ALL PERMANENT MATERIAL SHALL BE NEW. USED, RECONDITIONED, OR REMANUFACTURED MATERIAL SHALL NOT BE ALLOWED UNLESS APPROVED BY THE OWNER IN WRITING.
18. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL AND STATE BUILDING CODES. PRE-CONSTRUCTION PLAN APPROVALS REQUIRED BY LOCAL BUILDING AUTHORITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL FORWARD ALL ENGINEERING RELATED QUESTIONS TO THE ENGINEER FOR CONSIDERATION. INSPECTIONS REQUIRED BY LOCAL BUILDING AUTHORITIES SHALL BE COORDINATED BY THE CONTRACTOR.
19. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES AS NECESSARY TO COMPLY WITH LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS. EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE A MINIMUM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY PERMIT AUTHORITIES. ANY ADDITIONAL EROSION CONTROL MEASURES SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COSTS TO THE OWNER.
20. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL DEBRIS. DEMOLITION DEBRIS SHALL BE DISPOSED OF OFFSITE AT A LICENSED LANDFILL IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.
21. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, WHICH MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT. SEE FDOT SPECIFICATION SECTION 108 FOR ADDITIONAL INFORMATION REGARDING PROTECTION OF EXISTING STRUCTURES.
22. CONTRACTOR SHALL PAY THE COST FOR ALL ELECTRICAL SERVICE UP TO FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.
23. THE COST OF ALL INSPECTION FEES SHALL BE BORNE BY THE CONTRACTOR.
24. GEOTECHNICAL ENGINEERING SERVICES INCLUDING SOIL BORINGS HAVE BEEN PROVIDED BY LARRY M. JACOBS AND ASSOCIATES, INC. THE OWNER ASSUMES NO RESPONSIBILITY FOR THE CORRECTNESS, COMPLETENESS OR ACCURACY OF THE GEOTECHNICAL DATA PROVIDED BY LARRY M. JACOBS AND ASSOCIATES, INC.
25. IF PREHISTORIC OR HISTORIC ARTIFACTS, SUCH AS POTTERY OR CERAMICS, PROJECTILE POINTS, DUGOUT CANOES, METAL IMPLEMENTS, HISTORIC BUILDING MATERIALS, OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH NATIVE AMERICAN, EARLY EUROPEAN, OR AMERICAN SETTLEMENTS ARE ENCOUNTERED AT ANY TIME WITHIN THE PROJECT SITE AREA, THE PERMITTED PROJECT SHALL CEASE ALL ACTIVITIES INVOLVING SUBSURFACE DISTURBANCE IN THE VICINITY OF THE DISCOVERY. THE APPLICANT SHALL CONTACT THE FLORIDA DEPARTMENT OF STATE, DIVISION OF HISTORICAL RESOURCES, COMPLIANCE REVIEW SECTION AT (850) 245-6333. PROJECT ACTIVITIES SHALL NOT RESUME WITHOUT VERBAL AND/OR WRITTEN AUTHORIZATION. IN THE EVENT THAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTED ACTIVITIES, ALL WORK SHALL STOP IMMEDIATELY AND THE PROPER AUTHORITIES NOTIFIED IN ACCORDANCE WITH 872.05 FS.
26. THE CONTRACTOR SHALL WARRANTY THE WORK FOR A MINIMUM OF ONE YEAR UNLESS CLEARLY DEFINED OTHERWISE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL DEFECTIVE MATERIALS AND WORK AT NO COSTS TO THE OWNER WITHIN THE STATED WARRANTY PERIOD.
27. PRIOR TO INSTALLATION, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRE-CAST MATERIALS AND MANUFACTURED ITEMS TO THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE FOR APPROVAL. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE.

PERMITS AND PERMIT CONDITIONS

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES AND THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NOT SUPPLIED BY THE OWNER AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS. COSTS OF OBTAINING PERMITS NOT SUPPLIED BY THE OWNER SHALL BE BORNE BY THE CONTRACTOR. THIS SHALL INCLUDE BUT NOT BE LIMITED TO: NPDES PERMIT (OR NOI), CLEARING OR LAND DISTURBANCE PERMITS, TREE IMPACT PERMITS, CITY OR COUNTY BUILDING PERMITS, DRIVEWAY OR ENTRANCE PERMITS, TEMPORARY UTILITIES PERMIT, ETC.
3. UNLESS CLEARLY SPECIFIED OTHERWISE BY THE OWNER IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING ALL NOTICES OF COMMENCEMENTS AND NOTICES OF COMPLETION TO ALL PERMITTING AGENCIES INCLUDING PERMITS SUPPLIED BY THE OWNER.
4. ALL PROPOSED CONSTRUCTION ACTIVITIES SHALL BE IN STRICT COMPLIANCE WITH ALL SPECIAL PERMIT CONDITIONS AS OUTLINED IN THE PERMITS. IF PERMIT CONDITIONS DIFFER FROM THESE SPECIFICATIONS, PERMIT CONDITIONS SHALL CONTROL.

AS-BUILT SURVEY AND RECORD DRAWINGS

1. RECORD DRAWINGS: A COPY OF THE ORIGINAL SIGNED AND SEALED DRAWINGS KEPT ONSITE AT ALL TIMES WHERE THE CONTRACTOR SHALL KEEP A RECORD OF ALL DEVIATIONS FROM THE ORIGINAL DRAWINGS MARKED IN RED PENCIL OR PEN. WHEN ALL SUBSTANTIAL WORK IS DONE AND BEFORE NOTICE OF FINAL COMPLETION OF THE WORK, THE CONTRACTOR SHALL SUBMIT THE ORIGINAL RECORD DRAWINGS TO THE ENGINEER AND UP TO THREE (3) FULL SIZE OR REDUCED SIZE COPIES AS REQUESTED BY THE ENGINEER.
2. AS-BUILT SURVEY DRAWINGS: POST-CONSTRUCTION SURVEY DRAWINGS SIGNED AND SEALED BY A FLORIDA LICENSED SURVEYOR AND MAPPER PURSUANT TO CHAPTER 472 FLORIDA STATUTES, MARKED "AS-BUILT" SURVEY, AND REVIEWED BY THE ENGINEER(S). THE AS-BUILT SURVEY SHALL BE SUBMITTED IN DIGITAL AND 22" X 34" PAPER VERSIONS (UP TO 6 COPIES) TO THE ENGINEER AND OWNER FOR APPROVAL. THE AS-BUILT SURVEY SHALL BE PERFORMED IN THE SAME HORIZONTAL AND VERTICAL COORDINATE SYSTEM THE DRAWINGS ARE IN. DIGITAL DRAWINGS SHALL BE IN AUTOCAD 2016 OR NEWER VERSION AND PDF FORMAT.

SURVEY NOTES

1. ALL ELEVATIONS REFERENCE THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88), ELEVATIONS IN FEET UNLESS NOTED OTHERWISE.
2. ALL COORDINATES REFERENCE STATE PLANE FLORIDA NORTH NAD 83, COORDINATES IN FEET UNLESS NOTED OTHERWISE.
3. EXISTING JOE'S BAYOU SURVEYED OCTOBER 2021 BY SEASIDE ENGINEERING AND SURVEYING, LLC.
4. THE INFORMATION ON THESE DRAWINGS REPRESENTS THE RESULTS OF THE SURVEYS PERFORMED ON THE DATES AS INDICATED THE INFORMATION FROM THESE SURVEYS CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THE TIME OF THE SURVEYS.
5. ANY PUBLIC LAND CORNER OR BENCHMARK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE IMMEDIATELY. ANY MONUMENT OTHERWISE DESTROYED BY CONTRACTOR SHALL BE RESET BY A FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AT CONTRACTOR'S EXPENSE.
6. IF ANY GEODETIC MONUMENT WITHIN THE LIMITS OF CONSTRUCTION ARE DISTURBED, CONTRACTOR SHALL NOTIFY:

   DENIS RIORDAN, REGIONAL GEODETIC ADVISOR
   NATIONAL GEODETIC SURVEY
   JACKSON, MS
   (240) 678-2107
   denis.riordan@noaa.gov

7. ALL BENCHMARKS NOTED ON THE PLANS ARE TO BE MAINTAINED THROUGHOUT THE PROJECT. DESTROYED BENCHMARKS SHALL BE REDEFINED BY A FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AT THE CONTRACTOR'S EXPENSE.

STAGING AND CONSTRUCTION ACCESS

1. STAGING AND ACCESS AREAS SHOWN ON THE DRAWINGS ARE PROPOSED FOR BIDDING PURPOSES. CONTRACTOR MAY PROPOSE ADDITIONAL STAGING OR ACCESS AREAS BUT WILL BE RESPONSIBLE FOR REVIEWING THE SITES SUITABILITY FOR THE PROPOSED WORK AND, IF ACCEPTABLE, OBTAINING USE AGREEMENTS WITH THE UPLAND PROPERTY OWNER FOR THE PROPOSED WORK. CONTRACTOR MAY PROPOSE ADDITIONAL OR ALTERNATIVE STAGING AREAS, LOADING AREAS, TEMPORARY FACILITIES, OR OTHER WORK LOCATIONS IN THEIR CONSTRUCTION WORK PLAN FOR ENGINEER AND OWNER REVIEW AND ACCEPTANCE.
2. THE CONTRACTOR SHALL PLACE BARRICADES AND SIGNS INDICATING THE AREAS AND LIMITS OF CONSTRUCTION.
3. RIGHT OF WAY MAY NOT BE USED FOR STORAGE OF NEW OR REMOVED MATERIAL. ANY SITE WITHIN THE PROJECT LIMITS INTENDED FOR MATERIAL STORAGE MUST BE PRE-APPROVED BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE. ANY SOIL, PIPE, UTILITIES, CONCRETE, ASPHALT, VEGETATION OR SIGNAGE MATERIALS THAT ARE REMOVED AND ARE NOT INTENDED FOR RE-USE SHALL BE REMOVED FROM THE PROJECT EACH WORKDAY AND CANNOT REMAIN ONSITE. NEW OR EXISTING MATERIALS MUST BE REMOVED FROM THE RIGHT OF WAY AT THE END OF EACH WORKDAY.
4. THE CONTRACTOR SHALL COORDINATE WORK HOURS WITH OWNER AND ENGINEER TO MEET PROJECT SCHEDULE REQUIREMENTS. WORK HOURS SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS AND FDEP AGREEMENT.
5. CONTRACTOR WILL NOT BE ALLOWED TO TRAVERSE, UTILIZE, OR IMPACT ADJACENT PROPERTIES WITHOUT SPECIFIC AUTHORIZATION FROM THE PROPERTY OWNER AND A CONSTRUCTION WORK PLAN ACCEPTED BY THE OWNER AND ENGINEER.
6. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH ALL OTHER CONSTRUCTION ADJACENT TO THE PROJECT. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE PRIOR TO PROCEEDING WITH CONSTRUCTION.
7. IN ORDER TO LIMIT DISTURBANCE TO THE SURROUNDING NEIGHBORHOODS, CONTRACTOR SHALL BE LIMITED TO CONSTRUCTION BETWEEN THE HOURS OF 7:00 A.M. TO 7:00 P.M. MONDAY THROUGH FRIDAY AND FROM 9:00 A.M. TO 7:00 P.M. ON SATURDAY. CONSTRUCTION OUTSIDE OF THESE HOURS MUST HAVE PRIOR WRITTEN CONSENT FROM THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.
8. THE CONTRACTOR'S PROPOSED MATERIAL LOADING, HANDLING, HAULING, AND PLACEMENT OPERATIONS SHALL BE PERFORMED IN SUCH A MANNER AS TO MINIMIZE THE WORK AREA FOOTPRINT, REDUCE DAMAGE TO UPLAND AND NEARSHORE PROPERTY, REDUCE THE POTENTIAL DETERIORATION OF EXISTING ACCESSES AND HAUL ROUTES, AND AVOID IMPACTS TO VEGETATION TO THE GREATEST EXTENT PRACTICAL.
9. THE CONTRACTOR PROPOSED STAGING AREAS AND ACCESS CORRIDORS SHALL BE SUBJECT TO REVIEW BY THE OWNER AND ENGINEER. ACCEPTED AREAS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND BE RESTORED TO THE ORIGINAL CONDITION FOLLOWING CONSTRUCTION. THE CONTRACTOR SHALL CLEARLY IDENTIFY THE ACCEPTED STAGING AREA (WITH FLAGS, STAKES, OR SIMILAR) AND MAY NOT OPERATE EQUIPMENT OR TRANSVERSE AREAS OUTSIDE THE MARKED AREA WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
10. THE CONTRACTOR IS REQUIRED TO RESTORE THE ACCEPTED STAGING AND CORRIDOR AREAS TO THE ORIGINAL SITE CONDITION. RESTORATION ACTIVITIES MAY INCLUDE, BUT SHALL NOT BE LIMITED TO, REPLACING OR REPAIRING DAMAGED INFRASTRUCTURE (INCLUDING FENCING, PAVEMENT, ETC.), PLACING AND GRADING CLEAN SAND FILL IN RUTTED OR DISTURBED AREAS, AND VEGETATION RESTORATION.

SITEWORK NOTES

1. CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE PROJECT NECESSARY FOR CONSTRUCTION.
2. EXCESS SOIL THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE IF OF SUITABLE MATERIAL. EXCESS MATERIAL IS TO BE EITHER STOCKPILED ON THE SITE OR DISPOSED OF AS DIRECTED BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE. STOCKPILED MATERIAL SHALL BE PROTECTED WITH SILT FENCING (REFER TO STORMWATER POLLUTION PROTECTION PLAN DETAILS). ALL EXCESS SEDIMENT TO BE REMOVED MEETING THE OKALOOSA COUNTY “WHITE SANDS” DEFINITION IS TO BE PLACED AS NOTED ON THE PLANS.
3. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING EXCESS EARTHWORK FROM THE PROJECT.
4. BURNING OF MATERIALS AND/OR DEBRIS AS A MEANS OF DISPOSAL IS PROHIBITED WITHIN THE PROJECT LIMITS.
5. FOR PAVING, NON-SELECT SOILS, WHEN ENCOUNTERED, SHALL BE REMOVED FROM CONSTRUCTION AREAS AND BACK-FILLED WITH SELECT MATERIALS IN ACCORDANCE WITH FDOT INDICES 500 AND 505.
6. ALL ROCKS OR STONES LARGER THAN 6 IN. IN DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN 1 FT. OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN 2 IN. IN DIAMETER IN ACCORDANCE WITH FDOT INDICES 500 AND 505.
7. THE CONTRACTOR SHALL SURVEY AND STAKE THE CLEARING LIMITS AS INDICATED BY THE PLANS AND RECEIVE APPROVAL FROM THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE PRIOR TO COMMENCING WITH THE CLEARING AND GRUBBING OPERATION. (REFER TO TREE PROTECTION DETAILS AND NOTES.)
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL AND STATE REGULATIONS CONCERNING SITE SAFETY AND HANDLING AND DISPOSAL OF CONTAMINATED SOILS.
9. CLEARING AND GRUBBING INCLUDES THE REMOVAL OF ALL INCIDENTAL ITEMS INCLUDING BUT NOT LIMITED TO STRUCTURES, CONCRETE, ASPHALT, GRAVEL, FENCING AND ANY OTHER IMPROVEMENTS TO BE REMOVED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF SUCH ITEMS OFF SITE.
10. EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCVATION IS TO BE UTILIZED ONSITE ACCORDING TO THE CITY OF DESTIN'S LAND DEVELOPMENT CODE.

PAVING AND GRADING NOTES

1. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MULCH, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE. DELETERIOUS MATERIAL IS TO BE REMOVED FROM THE SITE. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS AND IN ACCORDANCE WITH THE SOILS REPORT. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
3. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
5. CONTRACTOR TO PROVIDE A ½-IN. BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER CONCRETE ITEMS (BUILDINGS, CURBING, SIDEWALKS, ETC.).
6. ALL UNDERGROUND UTILITIES MUST BE IN PLACE, TESTED OR INSPECTED, AND APPROVED PRIOR TO SURFACE CONSTRUCTION.
7. EXISTING SIGNAGE TO REMAIN THAT WILL BE AFFECTED BY CONSTRUCTION SHALL BE RELOCATED DURING CONSTRUCTION, SEE DEMOLITION PLAN.
8. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH AN INDEPENDENT TESTING COMPANY TO VERIFY COMPACTION. UPON COMPLETION OF THE WORK, CONTRACTOR SHALL HAVE ALL TEST RESULTS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA PURSUANT TO CHAPTER 471 FLORIDA STATUTES AND SUBMITTED TO THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.
9. ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND SHALL BE PLACED 14 DAYS AFTER PLACEMENT OF FINAL ASPHALT SURFACE.
10. THE CONTRACTOR SHALL COMPLETE ALL WORK INCLUDING RESTORATION, EXCEPT THE FINAL ASPHALT COURSE ON ONE SIDE OF THE ROADWAY PRIOR TO BEGINNING WORK ON THE IMPROVEMENTS TO THE OTHER SIDE OF THE ROADWAY. THE FINAL ASPHALT COURSE SHALL BE PLACED ON BOTH LANES AT THE SAME TIME.
11. ALL SIDEWALKS TO BE A MINIMUM 3,000 PSI CONCRETE AND 4-INCH THICK EXCEPT AT DRIVEWAY CROSSINGS WHERE THEY SHALL BE 6-INCH THICK REINFORCED WITH 6 IN X 6 IN W1.4XW1.4 WELDED WIRE MESH.

MAINTENANCE OF TRAFFIC GENERAL NOTES:

1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE FDOT DESIGN STANDARDS, INDEX 600 SERIES.
2. TEMPORARY TRAVEL LANES SHALL NOT BE LESS THAN 10-FT. IN WIDTH ON ROADWAYS OPEN TO TRAFFIC AND ADJACENT SIDE ROADS. TRAVEL LANES ON ROADWAYS OPEN TO TRAFFIC SHALL BE PROPERLY DELINEATED AT ALL TIMES DURING CONSTRUCTION.
3. MAINTENANCE OF TRAFFIC OPERATIONS ON INTERSECTING THOROUGHFARES AND ADJACENT STREETS SHALL BE COORDINATED WITH THE CITY OF DESTIN.
4. IT IS THE RESPONSIBILITY OF CONTRACTOR TO MAINTAIN CLEAR ZONE REQUIREMENTS FOR EQUIPMENT AND MATERIALS STORAGE AND WORK ZONE PROTECTION AS SPECIFIED IN FDOT STANDARD INDEX 600.
5. CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE WHEN HISTORICAL DRAINAGE PATTERNS ARE IMPEDED IN AN ACTIVE WORK ZONE. ANY ADDITIONAL COST ASSOCIATED WITH DRAINAGE (INSTALLATION AND REMOVAL OF TEMPORARY STRUCTURES, DE-SILTING OF EXISTING PIPES) SHALL BE INCIDENTAL TO THE CONTRACT.
6. ACCESS TO EXISTING DRIVEWAYS SHALL BE PROVIDED AT ALL TIMES. CONTRACTOR SHALL SUBMIT AN ACCESS MAINTENANCE PLAN FOR REVIEW AND RELEASE FOR CONSTRUCTION BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE. RESIDENTS SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF ANY DRIVEWAY INTERRUPTIONS.
7. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL OFFICER DURING ALL INTERMITTENT LANE CLOSURE OPERATIONS, NIGHTTIME OPERATIONS, AND DURING IMPLEMENTATION OF CHANGE IN THE TRAFFIC PATTERN (REROUTING OR SHIFTING TRAFFIC).
8. UNLESS OTHERWISE NOTED IN THE PLANS, THE EXISTING SPEED LIMITS ON ALL ROADWAYS SHALL BE MAINTAINED DURING CONSTRUCTION.
9. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN. THE PLAN MUST BE SIGNED AND SEALED BY A FLORIDA PROFESSIONAL ENGINEER LICENSED UNDER CHAPTER 471, FLORIDA STATUES. PRIOR TO IMPLEMENTATION, PLAN MUST BE SUBMITTED TO AND APPROVED BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.
10. THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN CITY OF DESTIN RIGHT OF WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION AND REPAIR. CONTRACTOR SHALL OBTAIN ALL PERMITS AND APPROVALS PRIOR TO INITIATING WORK WITHIN THE RIGHT OF WAY.
11. THE CONTRACTOR MUST PROVIDE A QUALIFIED MAINTENANCE OF TRAFFIC SUPERVISOR TO BE ON SITE WHEN WORK IS TAKING PLACE AND SHALL BE ON CALL FOR EMERGENCIES WHEN THE CONTRACTOR IS NOT AVAILABLE. THIS SUPERVISOR IS RESPONSIBLE FOR OVERSIGHT OF THE TRAFFIC CONTROL PLAN AND WILL BE REQUIRED TO SUBMIT WRITTEN INSPECTION REPORTING VERIFYING COMPLIANCE WITH THE TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL PROVIDE THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE A 24-HOUR ON-CALL TELEPHONE NUMBER FOR THE SUPERVISOR.
12. THE CONTRACTOR SHALL ADD MAINTENANCE OF TRAFFIC DEVICES AS NEEDED TO PROVIDE ACCESS TO THE INTERIOR OF THE SITE. DEVICES SHALL BE PLACED SUCH THAT THE SAFETY OF THE PUBLIC AND CONSTRUCTION PERSONNEL ARE PROTECTED AT ALL TIMES.
13. THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE RESERVES THE RIGHT TO REQUIRE ADDITIONAL DEVICES AND/OR CHANGES TO THE TRAFFIC CONTROL PLAN BASED UPON CHANGING TRAFFIC CONDITIONS OR TRAFFIC SAFETY ISSUES.
14. CLOSURE OF THE CITY OF DESTIN ROADS AND PARKING AREAS REQUIRE THE CONTRACTOR TO SUBMIT A ROAD CLOSURE REQUEST PACKAGE TO THE CITY OF DESTIN A MINIMUM OF TWO (2) WEEKS PRIOR TO CLOSURE. THE CLOSURE REQUEST SHALL INCLUDE THE MAINTENANCE OF TRAFFIC PLAN, DETOUR PLAN AND A BRIEF DESCRIPTION OF CONSTRUCTION. PLANS ARE TO BE APPROVED BY A PROFESSIONAL ENGINEER OR A FDOT CERTIFIED ADVANCED MOT PRACTITIONER.
15. TEMPORARY LANE CLOSURES, ON THOSE ROADWAYS OPEN TO TRAFFIC, WILL NOT BE ALLOWED BETWEEN THE HOURS OF 6:30 AM AND 9:00 AM AND BETWEEN THE HOURS OF 4:00 PM AND 6:00 PM. THE CONTRACTOR SHALL REQUEST FROM THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE, A STREET, LANE OR SIDEWALK CLOSURE 24 HOURS IN ADVANCE OF SUCH CLOSURE.
16. STREETS USED AS TEMPORARY DETOUR ROUTES AND HAUL ROUTES WILL BE MAINTAINED IN GOOD CONDITION AND BE KEPT FREE OF SILT AND DEBRIS BY THE CONTRACTOR AS DIRECTED BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.

TREE PROTECTION NOTES:

1. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN AS INDICATED ON THE PLANS SHALL BE PROTECTED IN ACCORDANCE WITH THE DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREE SHOWN TO REMAIN SHALL BE REMOVED WITHOUT APPROVAL FROM THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.
2. PROTECTIVE BARRICADES SHALL BE PLACED AROUND ALL PROTECTED TREES PRIOR TO SITE CLEARING AND SHALL REMAIN IN PLACE UNTIL LAND ALTERATION, SITE CLEARING AND CONSTRUCTION ACTIVITIES ARE COMPLETE. THE BARRICADES SHALL BE CONSTRUCTED TO PREVENT THE ENCROACHMENT OF EQUIPMENT OR VEHICLES, THE REMOVAL OF EXISTING GROUNDCOVER, THE DISTURBANCE OR COMPACTION OF SOIL, OR THE SCARRING OF ROOTS WITHIN THE CRITICAL PROTECTION ZONE (CPZ). THERE SHALL BE NO STORAGE OF MATERIALS OR EQUIPMENT OF ANY KIND WITHIN THIS ZONE.
3. REQUIRED TREE BARRICADES MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. ENCROACHMENT INTO OR FAILURE TO MAINTAIN TREE BARRICADES WILL RESULT IN ENFORCEMENT ACTION.
4. A MINIMUM DISTANCE OF TEN (10) FEET SHALL BE MAINTAINED FROM ALL PROTECTED TREES WHEN INSTALLING UNDERGROUND UTILITIES. IF THIS RESULTS IN UNREASONABLE HARDSHIP, A SOIL AUGER SHALL BE USED TO TUNNEL UNDER THE ROOT SYSTEMS.
5. THE CONTRACTOR IS REQUIRED TO PREVENT DAMAGE TO TREES WHICH ARE TO REMAIN. DAMAGE TO PROTECTED TREES WILL NOT BE TOLERATED. THE CONTRACTOR SHALL BE LIABILE FOR ALL DAMAGE TO TREES THAT ARE DESIGNATED TO BE SAVED DURING CONSTRUCTION.
6. SHOULD TRIMMING OF PROTECTED TREES BE NECESSARY, THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A CERTIFICED ARBORIST. ALL TRIMMING OF PROTECTED TREES SHALL BE DONE BY A QUALIFIED, LICENSED ARBORIST AND SHALL BE PRUNED IN ACCORDANCE WITH THE NATIONAL ARBORIST ASSOCIATION (NAA) PRUNING STANDARDS.

OPERATIONS AND MAINTENANCE OF STORMWATER SYSTEM:

1. THE STORMWATER MANAGEMENT SYSTEM WITHIN THE PROJECT SITE WILL BE OWNED, OPERATED AND MAINTAINED BY THE CITY OF DESTIN.
2. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN AS-BUILT SURVEY OF THE STORMWATER SYSTEM.
3. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STORMWATER SYSTEM UNTIL ACCEPTED BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.

GENERAL UTILITY NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO UTILITIES TO REMAIN SHALL BE PAID FOR BY CONTRACTOR AT CONTRACTOR'S EXPENSE.
2. THE EXISTING FACILITIES AND UTILITIES SHOWN ON THE PLANS WERE LOCATED FROM THE OWNER'S AND OTHER RECORDS. GUARANTY IS NOT MADE THAT ALL EXISTING FACILITIES OR UTILITIES ARE SHOWN OR THAT THOSE SHOWN ARE ENTIRELY ACCURATE. THE CONTRACTOR SHALL ASSURE HIMSELF OF THE PRESENCE AND LOCATION OF ALL UTILITIES, STRUCTURES, OR OTHER FACILITIES IN THE WORK AREA PRIOR TO PERFORMING THE WORK. THE OWNER AND THE ENGINEER WILL ASSUME NO LIABILITY FOR DAMAGES SUSTAINED OR COSTS INCURRED BECAUSE OF THE CONTRACTOR'S OPERATIONS IN THE VICINITY OF THE EXISTING UTILITIES, STRUCTURES, OR FACILITIES. THE GENERAL NOTES ON THE PLANS ALSO INDICATE THE REQUIREMENTS OF THE CONTRACTOR AS REGARDS EXISTING FACILITIES, STRUCTURES, AND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DEVIATION BETWEEN EXISTING CONDITIONS AND THE DRAWINGS, AND INDICATE THE LOCATION OF THE EXISTING UTILITIES, STRUCTURES, AND FACILITIES ON THE RECORD DRAWINGS.
3. ALL WATER AND SEWER CONSTRUCTION SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FS.
4. CONTRACTOR SHALL NOTIFY THE UTILITY OWNERS LISTED BELOW THROUGH 811 A MINIMUM OF TWO (2) FULL BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.

UAO	CONTACT NAME	CONTACT NUMBER
CENTURY LINK	WILLIS GILSON	(850) 300–7030, (850) 585–7296
COX COMMUNINCATIONS, INC.	PRENTIS WILEY	(850) 602–3241
DESTIN WATER USERS, INC.	STEVEN SCHMITT	(850) 337–3937, (850) 585–3081
FLORIDA POWER & LIGHT – DESTIN	CHAD SWAILS	(850) 244–4747, (850) 723–7852
OKALOOSA GAS DISTRICT	KYLE COX	(850) 729–4881, (850) 978–6436
LIVEOAK FIBER, LLC	CASEY WILLIAMS	(270) 619–0962

5. CONTRACTOR SHALL DESIGNATE AN ON-SITE UTILITY COORDINATOR WHO WILL BE RESPONSIBLE FOR COORDINATING ALL UTILITY ISSUES WITH THE APPLICABLE AGENCIES.
6. CONTRACTOR SHALL AVOID WATER AND SEWER SERVICE INTERRUPTIONS AND MAINTAIN EXISTING DEMAND AT ALL TIMES.
7. ALL WATER SERVICES ARE TO BE TIED INTO THE EXISTING 6-INCH IN. WATER MAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED CUSTOMERS OF THE UTILITY A MINIMUM OF 72 HOURS IN ADVANCE OF ANY INTERRUPTION OF SERVICE.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR HOLDING AN ON-SITE PRE-CONSTRUCTION UTILITY MEETING WITH ALL APPLICABLE UTILITY PROVIDERS. THE MEETING SHALL BE CONDUCTED BY CONTRACTOR'S DESIGNATED UTILITY COORDINATOR. CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING MINUTES OF THE MEETING AND PROVIDE A COPY OF SAID MINUTES TO ALL ATTENDEES WITHIN TWO (2) WEEKS AFTER THE MEETING.
9. CONTRACTOR SHALL COORDINATE THE LOCATION AND RELOCATION OF ALL APPLICABLE UTILITIES WITH FDEP AND CORRESPONDING UTILITY AUTHORITIES BEFORE CONSTRUCTION EFFORTS BEGIN.
10. WHERE UTILITIES ARE TO BE ABANDONED IN PLACE, ALL VOIDS ARE TO BE FILLED WITH EXCAVATABLE FLOWABLE FILL AND THE HORIZONTAL AND VERTICAL POSITIONS OF THE UTILITY SHALL BE LOCATED BY SURVEYOR LICENSED IN THE STATE OF FLORIDA UNDER CHAPTER 472, FLORIDA STATUTES. THE UTILITY COMPOSITION AND IDENTIFIED USE ARE TO BE MAPPED WITH THE ABOVE INFORMATION AND FOUR (4) COPIES OF THE MAP SHALL BE PROVIDED TO THE OWNER ALONG WITH CAD AND .PDF FILES.
11. REFER TO THE UTILITY ADJUSTMENT PLANS FOR EXISTING ABOVE GROUND AND UNDERGROUND UTILITY RELOCATIONS / DEMOLITION. OTHER UNKNOWN UTILITIES MAY NEED TO BE ADJUSTED OR REMOVED.
12. CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE IF THEY ENCOUNTER ANY UNIDENTIFIED UTILITY OR STRUCTURE DURING CONSTRUCTION THAT IMPACTS THE PROJECT IMPLEMENTATION.

GENERAL WATER AND SANITARY SEWER UTILITY NOTES

1. UNLESS OTHERWISE NOTED, ALL MATERIALS SALVAGED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE OWNER. IF THE SALVAGED MATERIALS HAVE NO VALUE TO THE OWNER, THE CONTRACTOR SHALL DISPOSE OF THE MATERIALS IN A MANNER SATISFACTORY TO THE OWNER. AT NO ADDITIONAL COST.
2. PLACEMENT OF ON-SITE WATER AND SANITARY SEWER FACILITIES ARE SUBJECT TO THE REVIEW AND APPROVAL OF DESTIN WATER USERS, INC.
3. CONFLICTS BETWEEN WATER AND STORM OR SANITARY SEWER ARE TO BE RESOLVED BY ADJUSTING THE WATER LINES AS NECESSARY.

WATER NOTES

1. ALL FITTINGS INCLUDING BUT NOT LIMITED TO, TEES, CROSSES, CAPS, AND BENDS SHALL BE PROPERLY RESTRAINED.

SANITARY SEWER NOTES

1. CONTRACTOR SHALL MAINTAIN SANITARY SEWER SERVICE THROUGH DESTIN WATER USERS, INC. SANITARY SEWER MAINS AT ALL TIMES THROUGHOUT CONSTRUCTION. MEANS AND METHODS OF SERVICE MAINTENANCE SHALL BE LEFT TO CONTRACTOR SUBJECT TO APPROVAL BY DESTIN WATER USERS, INC.

ACCESSIBILITY

1. CONTRACTOR SHALL BE HELD ACCOUNTABLE DURING CONSTRUCTION FOR ALL PROJECT IMPROVEMENTS. COMPLIANCE WITH FLORIDA STATUTES 553.5041 FLORIDA STATUTES (FS) AND THE 2020 FLORIDA BUILDING CODE - ACCESSIBILITY (FBC-A) IS MANDATORY. IF INCORRECT AT THE FINAL INSPECTION, CONTRACTOR SHALL BE REQUIRED TO MODIFY CONSTRUCTION TO COMPLY WITH FLORIDA STATUTUES AND FBC-A. THE FOLLOWING ITEMS TAKE PRECEDENCE AND SUPERSEDE OTHER DETAILS ON PLANS:
   - A. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON AN ACCESSIBLE ROUTE NO LESS THAN 4 FEET (FT.) WIDE SO THAT USERS WILL NOT BE COMPELLED TO WALK OR WHEEL BEHIND PARKED VEHICLES. §208.3 AND §502.3, FBC-A AND §553.5041 FS.
   - B. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SERVING A PARTICULAR BUILDING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE FROM H/C PARKING TO AN ACCESSIBLE ENTRANCE. §208.3.1 FBC-A AND §553.5041 FS.
   - C. ACCESSIBLE PARKING SPACES SHALL BE 12 FT. WIDE OUTLINED WITH BLUE PAINT. §502.2 FBC-A
   - D. ACCESS AISLES REQUIRED ADJACENT TO PARKING SPACES SHALL BE 5 FT. WIDE WITH DIAGONAL STRIPING. §502.2 AND §502.3, FBC-A
   - E. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL (NOT TO EXCEED 1 :48) ON A STABLE, FIRM AND SLIP RESISTANT SURFACE. RE: §302.1 AND §502.4 FBC-A.
   - F. ACCESSIBLE PARKING SIGNS SHALL BE FDOT APPROVED AND SHALL READ 'PARKING BY DISABLED PERMIT ONLY' AND SHALL INDICATE A $250 FINE FOR ILLEGAL USE. INSTALL SIGNS A MINIMUM 60 IN. (INCHES) FROM THE GROUND TO THE BOTTOM OF THE SIGN(S). RE. §502.6.1 AND §553.5041 FS.
   - G. CURB RAMP SLOPES SHALL NOT EXCEED 1:12 SLOPE; THE COUNTER SLOPE OF ADJACENT ROAD SURFACES & GUTTERS SHALL NOT EXCEED 1 :20 SLOPE. CURB RAMP SIDE SLOPES SHALL NOT EXCEED 1:10 SLOPE. CURB RAMPS SHALL NOT ENCROACH PARKING SPACES OR ACCESS AISLES. RE: §406, FBC-A
   - H. ALL RAMPS WITH A RISE GREATER THAN 6 IN. SHALL PROVIDE EDGE PROTECTION COM PL YING WITH §405.9 1 FBC-A OR §405.9.2 FBC-A. RAMPS SHALL HAVE 60 IN. MIN LEVEL LANDINGS AT THE TOP & BOTTOM. RE: §405.7 FBC-A.
   - I. ALL RAMPS WITH A RISE GREATER THAN 6 IN. SHALL HAVE HANDRAILS ON BOTH SIDES WITH 18 IN. HORIZONTAL EXTENSIONS AT THE TOP & BOTTOM OF THE RAMP. RE: §1010.8 FLORIDA BUILDING CODE, BUILDING (FBC-B).
   - J. ACCESSIBLE ROUTE TO "MAIN ENTRY" FROM AN ACCESSIBLE PARKING SPACE SHALL NOT EXCEED 1 :20 SLOPE (UNLESS RAMPS AND HANDRAILS ARE PROVIDED) WITH CROSS SLOPE NOT IN EXCESS OF 1 :48. RE: §206 FBC-A.
   - K. ACCESSIBLE PARKING SPACES AND THE ROUTES SERVING THEM SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 98 IN. PER §502.5 FBC-A

   *EXCEPTION: AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED BETWEEN ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES IF THE ONLY MEANS OF ACCESS BETWEEN THEM IS A VEHICULAR WAY NOT PROVIDING PEDESTRIAN ACCESS. RE: §206.2.2 FBC-A12.

SAFETY NARRATIVE FOR STORMWATER POND AND BOARDWALK:

1. NO SWIMMING WILL BE ALLOWED IN STORMWATER POND.
2. THE BOARDWALK CROSSING THE STORMWATER POND WILL INCLUDE HANDRAILS.
3. SEE TAYLOR ENGINEERING PLANS FOR HANDRAIL DETAILS.

halff
2255 KILLEARN CENTER BLVD., SUITE 100
TALLAHASSEE, FLORIDA 32303
TEL. (850) 224-4400

SEAL
DAVID W. HUTCHESON
LICENSE No 38670
STATE OF FLORIDA
PROFESSIONAL ENGINEER

David W Hutcheson
Digitally signed by David W Hutcheson
DN: cn=David W Hutcheson, c=US, o=Florida, email=DHUTCHESON@HALFF.COM
Date: 2024.11.25 09:40:29 -05'00'
ENG DAVID W. HUTCHESON, PE. 38670

PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

Call 811 before you dig.

PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

GENERAL NOTES

C3

SHEET 5 OF 32

RYAN TRUBIA, 11/25/2024 8:28:22 AM, A:\40000s\40190\003\CADD\Sheets\TLH40190.003_Layout_90%.dwg

LEGEND

- EXTRA STRENGTH PAVEMENT
- 6" THICK CONCRETE SIDEWALK
- 6" THIKH SIDE WALK WITH TURNDOWN

NORTH

0 30 60

SCALE IN FEET

SEE TAYLOR ENGINEERING DRAWINGS FOR STRUCTURES OVER SUBMERGED LANDS

SEE TAYLOR ENGINEERING DRAWINGS FOR STRUCTURES OVER SUBMERGED LANDS

SEE TAYLOR ENGINEERING DRAWINGS FOR STRUCTURES OVER SUBMERGED LANDS

SEE TAYLOR ENGINEERING DRAWINGS FOR STRUCTURES OVER SUBMERGED LANDS

SEATING AREA

6" THICK SIDEWALK

6" THICK SIDEWALK WITH TURNDOWNS

STAFF INFORMATION PAVILION

MANATEE BARRIER SEE SHEET C11.2 FOR DETAILS

12" FLUSH HEADER CURB TYP.

14,564 SF OF EXTRA STRENGTH ASPHALT

SEATING AREA

SWMF

REMOVABLE BOLLARDS

(REFERENCE BEARING)
N26°59'27"W 804.16' (F)
N27°53'23"W 844.08' (D)

BEACH DRIVE
100' PUBLIC R/W

R3.0'
R40.0'
R40.5'
R24.0'
R20.0'
R26.0'
R5.0'
R25.0'
R19.4'
R12.0'

15.0'
50.0'
41.0'
26.0'
23.0'
24.0'
25.0'
12.0'
50.0'
36.0'
6.5'
18.0' TYP.
10.0' TYP.
54.8' TYP.
26.0'
38.9'

1 2 3 4

TR-306 TR-306A TR-307 TR-293 TR-299 TR-296 TR-297 TR-840 TR-133 TR-131 TR-130 TR-826 TR-129 TR-128 TR-127 TR-126 TR-125 TR-124 TR-123 TR-121 TR-122

RYAN TRUBIA, 11/25/2024 8:28:27 AM, A:\40000s\40190\003\CAD\Sheets\T1\H40190_003_Layout_90%.dwg

halff
2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

DAVID W. HUTCHESON LICENSE No 38670 STATE OF FLORIDA PROFESSIONAL ENGINEER

David W Hutcheson

Digitally signed by David W Hutcheson
DN: cn=David W Hutcheson, o=Halff, ou=Florida, email=DHUTCHESON@HALFF.COM
Date: 2024.11.26 09:46:41 -06'00'

ENG DAVID W. HUTCHESON, PE. 38670

PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

Call 811 before you dig.

PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

SITE AND GEOMETRY PLAN SOUTHERN

C4.1

SHEET 6 OF 32

SEE TAYLOR ENGINEERING DRAWINGS FOR STRUCTURES OVER SUBMERGED LANDS

TURNDOWNS

MANATEE BARRIER SEE SHEET C11.2 FOR DETAILS

SEATING AREA

SWMF

12" FLUSH HEADER CURB TYP.

REMOVABLE BOLLARDS

BEACH DRIVE
100' PUBLIC R/W

PICNIC PAVILION

PICNIC PAVILION

SKIMMER A

SKIMMER B

SEE BOARDWALK PLAN SHEETS FOR DETAILS OF BOARDWALK CONSTRUCTION

NORTH

0 30 60

SCALE IN FEET

halff
2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

DAVID W. HUTCHESON LICENSE No 38670 STATE OF FLORIDA PROFESSIONAL ENGINEER

David W Hutcheson

Digitally signed by David W Hutcheson
DN: cn=David W Hutcheson, c=US, o=HALFF, email=DHUTCHESON@HALFF.COM
Date: 2024.11.25 09:41:05 -05'00'

ENG DAVID W. HUTCHESON, PE. 38670

PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS; THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

Call 811 before you dig.

PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

SITE AND GEOMETRY PLAN WESTERN

C4.2

SHEET 7 OF 32

RYAN TRUBIA, 11/25/2024 8:28:32 AM, A:\40000s\40190\003\CAD\Sheets\1\H40190.003_Layout_50%.dwg

NORTH

0 30 60

SCALE IN FEET

SEE TAYLOR ENGINEERING DRAWINGS FOR STRUCTURES OVER SUBMERGED LANDS

6" T SIDEWALK WITH TURNDOWNS

R40.5'

15.0'

6.0'

43.0'

MANATEE BARRIER SEE SHEET C11.2 FOR DETAILS

SEATING AREA

SWMF

8.0'

REMOVABLE BOLLARDS

RADAR SPEED FEEDBACK SIGN SEE SHEET C11.1 FOR DETAILS

BEACH DRIVE
100' PUBLIC R/W

8.0'

10.9'

6.0'

PICNIC PAVILION

PICNIC PAVILION

SKIMMER A

SKIMM

SEE BOARDWALK PLAN SHEETS FOR DETAILS

halff
2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

DAVID W. HUTCHESON LICENSE No 38670 STATE OF FLORIDA PROFESSIONAL ENGINEER

David W Hutcheson

Digitally signed by David W Hutcheson
DN: cn=David W Hutcheson, o=US, o=Halff
Email=DHUTCHESON@HALFF.COM
Date: 2024.11.26 09:41:22 -05'00'

ENG DAVID W. HUTCHESON, PE. 38670

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PROJECT TITLE

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SHEET TITLE

SITE AND GEOMETRY PLAN NORTHERN

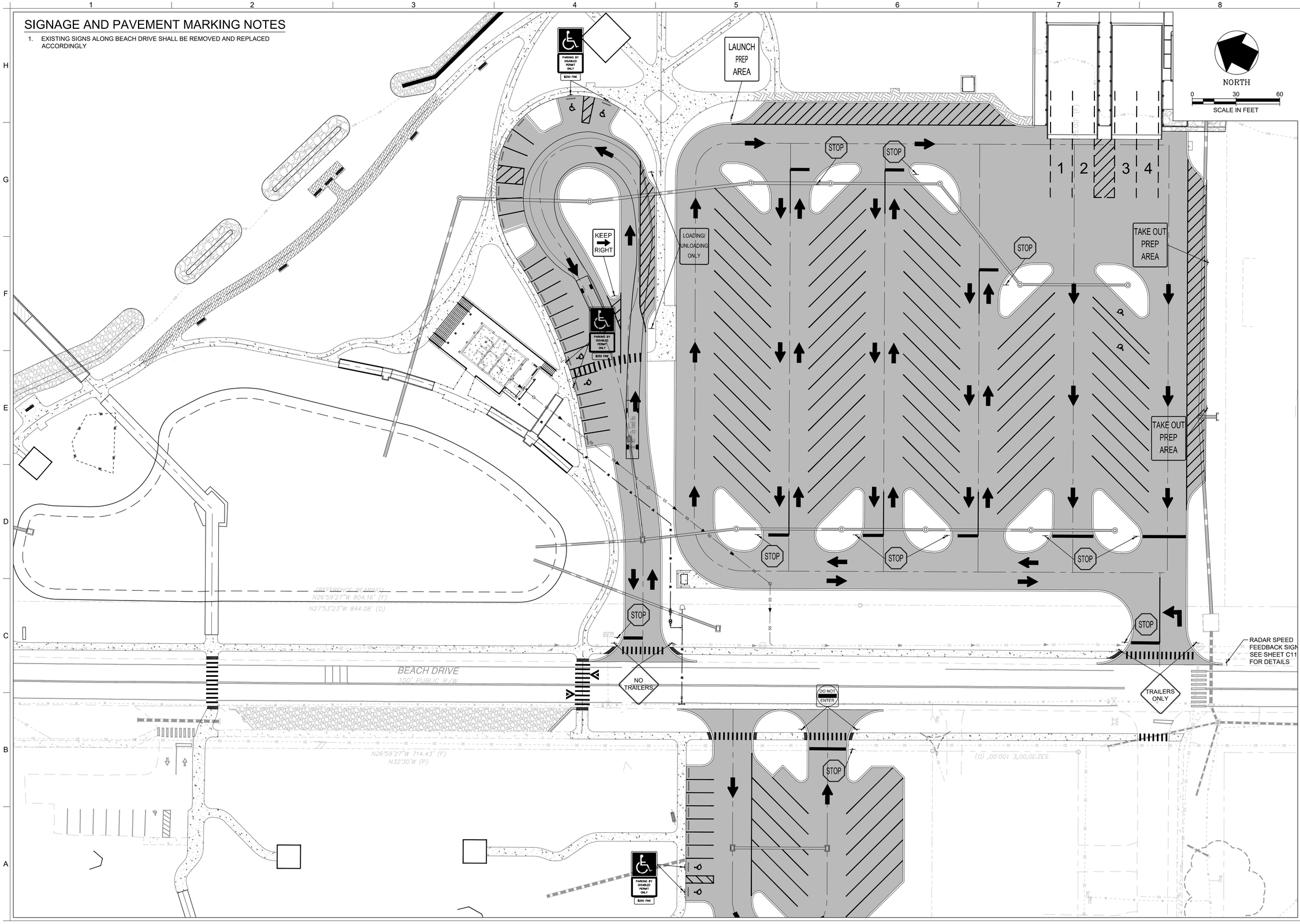
C4.3

SHEET 8 OF 32

RYAN TRUBIA, 11/25/2024 8:28:38 AM, A:\40000s\40190\003\CADD\Sheets\TLH\40190.003_Layout_90%.dwg

SIGNAGE AND PAVEMENT MARKING NOTES

1. EXISTING SIGNS ALONG BEACH DRIVE SHALL BE REMOVED AND REPLACED ACCORDINGLY



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Date: 2024.11.25 09:41:41 -05'00'

ENG DAVID W. HUTCHESON, PE. 38670

PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

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REVIEWED	DWH

SHEET TITLE

SIGNAGE AND PAVEMENT MARKING PLAN

C5

SHEET 9 OF 32

RYAN TRUBIA, 11/25/2024 8:28:41 AM, A:\40000s\40190\003\CAD\Sheets\1.H40190.003_Layout_50%.dwg

NORTH

0 30 60

SCALE IN FEET

SWMF
TOP: 3.00
BOTTOM: -6.00

F.F.E. 5.25

F.F.E. 5.00

ENVIRONMENTAL COMPOSITE, INC. 4D18FG1 4-SIDED SKIMMER OR EQUIVALENT

S85
FDOT TYPE D INLET
CONTROL STRUCTURE
4.08' WIDE X 1.25' DEEP SLOT EACH SIDE
INV. 2.33
2.5" ORIFICE, INV. 1.50
RIM:3.58
INV OUT:-1.00 24"

S70
30" HDPE DRAIN BASIN
RIM:3.75
INV IN:-2.11 24"
INV OUT:-2.19 24"

S65
30" HDPE DRAIN BASIN
RIM:4.50
INV IN:-1.47 24"
INV OUT:-1.47 24"

S60
30" HDPE DRAIN BASIN
RIM:4.50
INV IN:-0.92 24"
INV OUT:-0.92 24"

S55
30" HDPE DRAIN BASIN
RIM:4.50
INV IN:-0.64 18"
INV OUT:-0.64 24"

S50
24" HDPE DRAIN BASIN
RIM:4.50
INV IN:-0.27 18"
INV OUT:-0.27 18"

S45
24" HDPE DRAIN BASIN
RIM:4.50
INV IN:0.17 18"
INV OUT:0.17 18"

S40
24" HDPE DRAIN BASIN
RIM:4.50
INV OUT:0.54 18"

S35
FDOT TYPE C DBI
RIM:5.69
INV OUT:0.72 18"

S30
FDOT TYPE C DBI
RIM:5.50
INV IN:-1.08 18"
INV IN:0.38 18"
INV OUT:-1.08 18"

S25
24" HDPE DRAIN BASIN
RIM:4.50
INV IN:-0.76 18"
INV OUT:-0.76 18"

S20
24" HDPE DRAIN BASIN
RIM:4.50
INV IN:-0.40 18"
INV OUT:-0.40 18"

S10
24" HDPE DRAIN BASIN
RIM:4.50
INV IN:-0.11 18"
INV OUT:-0.11 18"

S5
24" HDPE DRAIN BASIN
RIM:4.50
INV IN:0.25 18"
INV OUT:0.25 18"

S15
FDOT TYPE C DBI W/
DUAL SLOTS AT 3.00
RIM:3.38
INV OUT:0.76 18"

S90
STORMWATER MANHOLE
RIM:6.00
INV IN:2.00 24"
INV IN:0.42 24"
INV OUT:0.42 24"

21+00 89 LF OF 24" HDPP @ 0.81%

13+00 111 LF OF 24" HDPP @ 0.50%

14+00 55 LF OF 24" HDPP @ 0.50%

15+00 75 LF OF 18" HDPP @ 0.50%

16+00 89 LF OF 18" HDPP @ 0.50%

17+00 74 LF OF 18" HDPP @ 0.50%

12+00 211 LF OF 24" HDPP @ 0.68%

10+00 185 LF OF 24" HDPP @ 0.44%

11+00 135 LF OF 18" HDPP @ 2.04%

10+00 73 LF OF 18" HDPP @ 1.25%

11+00 65 LF OF 18" HDPP @ 0.50%

12+00 72 LF OF 18" HDPP @ 0.50%

13+00 58 LF OF 18" HDPP @ 0.50%

14+00 72 LF OF 18" HDPP @ 0.50%

14+32 58 LF OF 18" HDPP @ 0.50%

11+00 135 LF OF 24" HDPP @ 0.50%

11 LF OF 18" HDPP @ 7.18%

END DRAINAGE RUN 1

END DRAINAGE RUN 2

END DRAINAGE RUN 3

END DRAINAGE RUN 4

END INV. -1.00

END INV. -2.00

END INV. -3.00

BEGINNING DRAINAGE RUN 1

BEGINNING DRAINAGE RUN 2 AND 3

BEGINNING DRAINAGE RUN 2.1

BEGINNING DRAINAGE RUN 4

BEGINNING DRAINAGE RUN 5

ENC PV 5.60 GE RUN 2

HEADWALL
INV. OUT 2.80

STORM INLET
TOP: 4.10
SE INV.: 2.30
NW INV.: 1.10

BEACH DRIVE
100' PUBLIC R/W

N26°59'27"W 804.46' (D)

N27°53'23"W 844.06' (D)

halff
2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

DAVID W. HUTCHESON
LICENSE
No 38670
STATE OF FLORIDA
PROFESSIONAL ENGINEER

David W Hutcheson

Digitally signed by David W Hutcheson
DN: cn=David W Hutcheson, c=US, o=Halff, email=DHUTCHESON@HALFF.COM
Date: 2024.11.25 09:42:01 -05'00'

ENG DAVID W. HUTCHESON, PE. 38670

PROJECT TITLE

JOE'S BAYOU RECREATION
AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

Call 811 before you dig.

PROJECT NO	40190-003
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DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH
SHEET TITLE	

GRADING AND DRAINAGE PLAN SOUTHERN

C6.1

SHEET 10 OF 32

RY'AN TRUBIA, 11/25/2024 8:28:46 AM, A:\40000\40190\003\CADD\Sheets\TLH40190.003_Layout_90%.dwg

SWMF
TOP: 3.00
BOTTOM: -6.00

NORTH
0 30 60
SCALE IN FEET

END DRAINAGE RUN 5
END INV. -1.00
74 LF OF 24" HDPP @ 0.00%
ENVIRONMENTAL COMPOSITE, INC. 4D18FG1 4-SIDED SKIMMER OR EQUIVALENT
F.F.E. 5.00
BEGINNING DRAINAGE RUN 5
S85 FDOT TYPE D INLET CONTROL STRUCTURE 4.08' WIDE X 1.25' DEEP SLOT EACH SIDE INV. 2.33 2.5" ORIFICE, INV. 1.50 RIM:3.58 INV OUT:-1.00 24"
END INV. -3.00
BEGINNING DRAINAGE RUN 1
185 LF OF 24" HDPP @ 0.44%
89 LF OF 24" HDPP @ 0.81%
111 LF OF 24" HDPP @ 0.81%
S65 30" HDPE DRAIN BASIN RIM:4.50 INV IN:-1.47 24" INV OUT:-1.47 24"
END DRAINAGE RUN 2.1
S35 FDOT TYPE C DBI RIM:5.69 INV OUT:0.72 18"
S55 30" HDPE DRAIN BASIN RIM:4.50 INV IN:-0.64 18" INV OUT:-0.64 24"
S25 24" HDPE DRAIN BASIN RIM:4.50 INV IN:-0.76 18" INV OUT:-0.76 18"
S20 24" HDPE DRAIN BASIN RIM:4.50 INV IN:-0.40 18" INV OUT:-0.40 18"
S10 24" HDPE DRAIN BASIN RIM:4.50 INV IN:-0.11 18" INV OUT:-0.11 18"
S30 FDOT TYPE C DBI RIM:5.50 INV IN:-1.08 18" INV IN:0.38 18" INV OUT:-1.08 18"
END INV. -2.00
BEGINNING DRAINAGE RUN 2 AND 3
73 LF OF 18" HDPP @ 1.25%
65 LF OF 18" HDPP @ 0.50%
72 LF OF 18" HDPP @ 0.50%
58 LF OF 18" HDPP @ 0.50%
72 LF OF 18" HDPP @ 0.50%
BEGINNING DRAINAGE RUN 2.1
135 LF OF 18" HDPP @ 2.04%
END DRAINAGE RUN 3
S15 FDOT TYPE C DBI W/ DUAL SLOTS AT 3.00 RIM:3.38 INV OUT:0.76 18"
BEACH DRIVE
100' PUBLIC R/W
S80 FDOT TYPE C DBI RIM:4.25 INV IN:1.10 18"
S75 FDOT TYPE C DBI RIM:4.25 INV OUT:1.42 18"
BEGINNING DRAINAGE RUN 6
65 LF OF 18" HDPP @ 0.50%
END DRAINAGE RUN 6
F.F.E. 6.00
TOW 4.20
WOOD SKIMMER A
TOW 4.60
WOOD SKIMMER B

NOTES:
1. SEE SHEET C7 FOR DRAINAGE PROFILES
2. REPLACE EXISTING WOODEN SKIMMERS WITH NEW PRESSURE TREATED WOOD SKIMMERS USING SAME DESIGN AND ELEVATION SEE SHEET C8 FOR DETAILS
3. A. B.

halff
2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL
DAVID W. HUTCHESON LICENSE No 38670 STATE OF FLORIDA PROFESSIONAL ENGINEER
David W Hutcheson
Digitally signed by David W Hutcheson
DN: cn=David W Hutcheson, o=US, ou=Halff, email=DAVID.HUTCHESON@HALFF.COM
Date: 2024.11.25 09:44:02 -05'00'
ENG DAVID W. HUTCHESON, PE. 38670

PROJECT TITLE
JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

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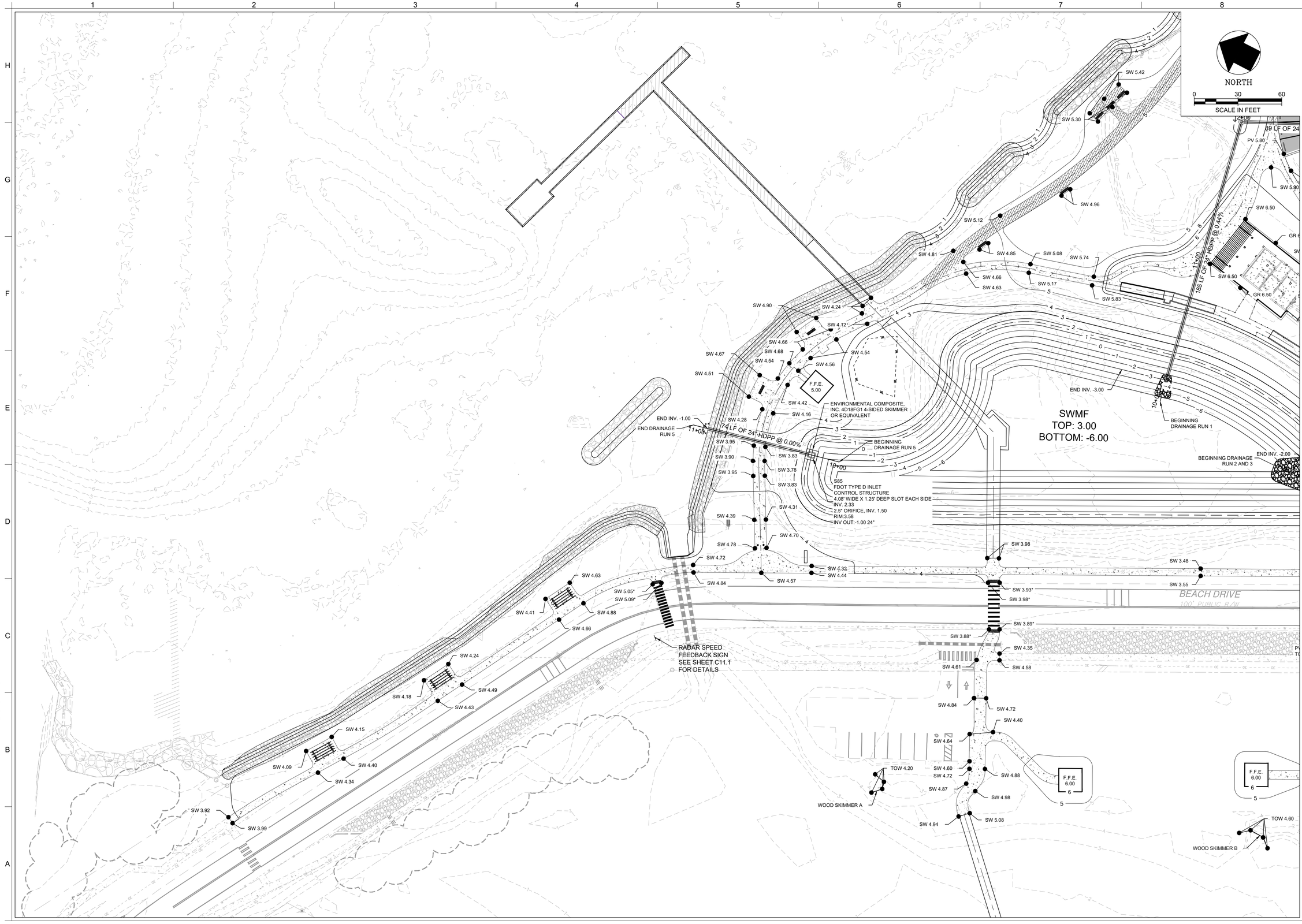
SHEET TITLE
GRADING AND DRAINAGE PLAN WESTERN

C6.2
SHEET 11 OF 32

RYAN TRUBIA, 11/25/2024 8:28:52 AM, A:\40008\40190\003\CADD\Sheets\T1\H40190_003_Layout_80%.dwg



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Date: 2024.11.25 09:44:24 -05'00'

ENG DAVID W. HUTCHESON, PE. 38670

PROJECT TITLE

JOE'S BAYOU RECREATION
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OKALOOSA COUNTY, FL

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REVIEWED	DWH

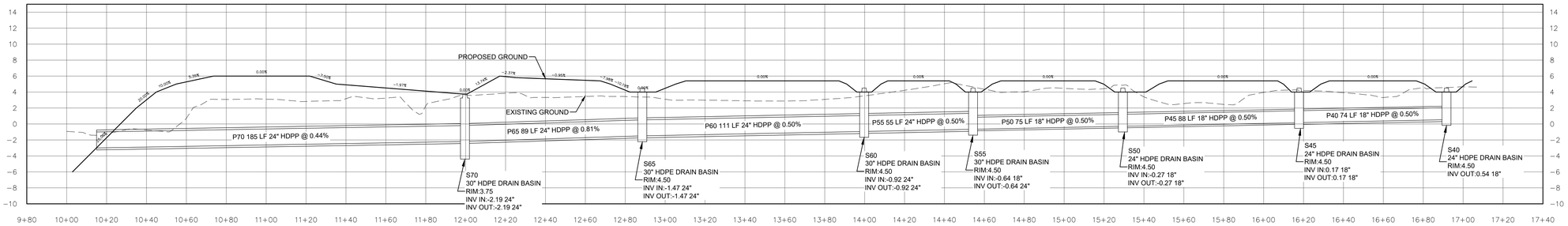
SHEET TITLE

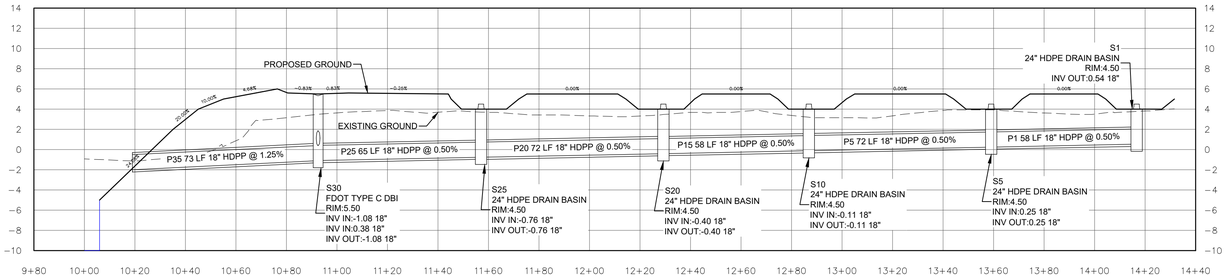
GRADING AND DRAINAGE PLAN NORTHERN

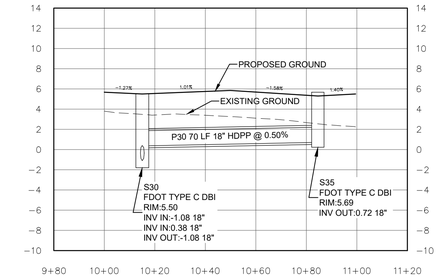
C6.3

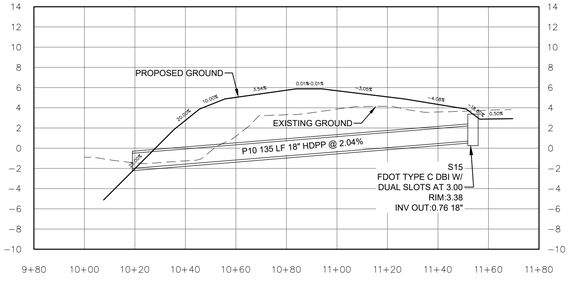
SHEET 12 OF 32

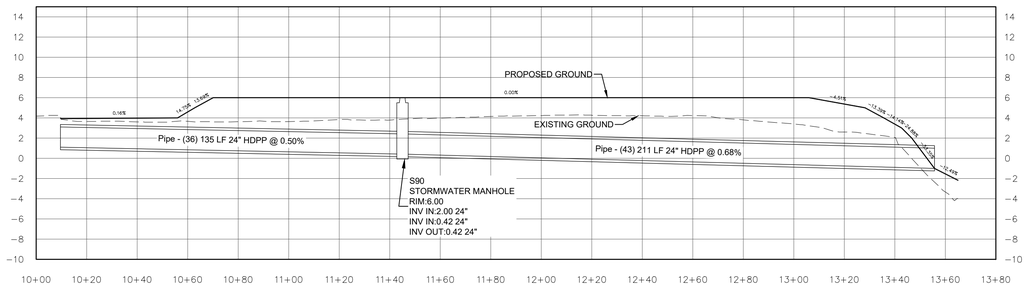
RYAN TRUBIA, 11/25/2024 8:23:57 AM, A:\40\00\94\01\90\30\50\24\DS\Sheets\TL\114\0190.003_Layout_90%.dwg

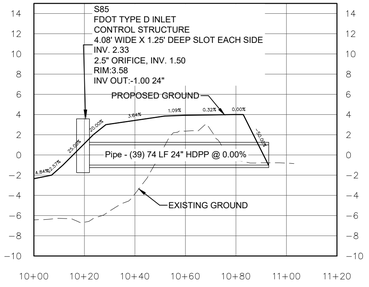


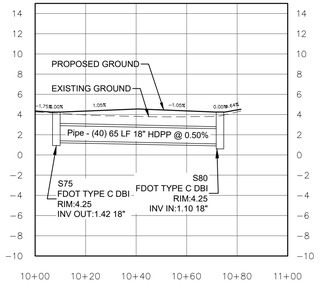












NOTES:
1. SEE SHEETS 6.1 TO 6.3 FOR LOCATIONS OF STRUCTURES AND PIPES IN PLAN VIEW

0 30 60
SCALE IN FEET

halff
2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL: (850) 224-4400

SEAL
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LICENSE
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

David W Hutcheson
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Date: 2024.11.25 09:44:54 -05'00'

ENG DAVID W. HUTCHESON, PE. 38670

JOE'S BAYOU RECREATION
AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PROJECT TITLE

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REVIEWED	DWH

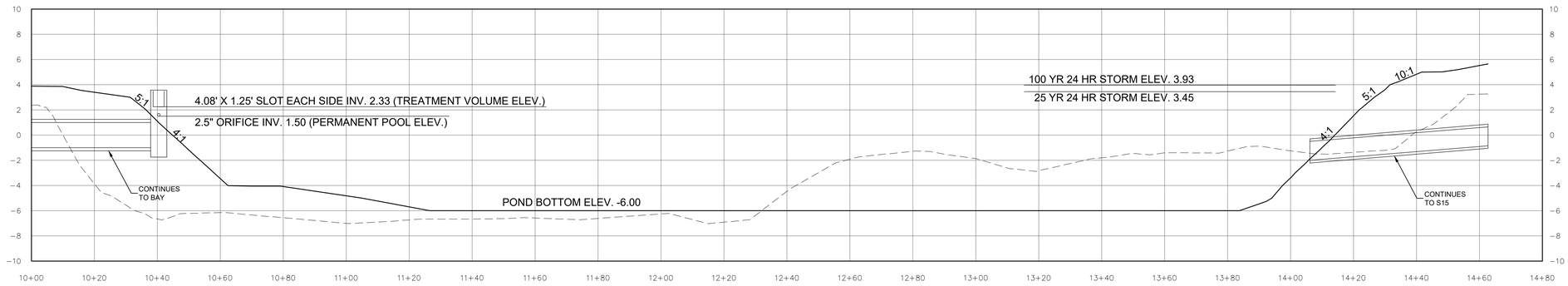
SHEET TITLE

GRADING AND DRAINAGE PLAN

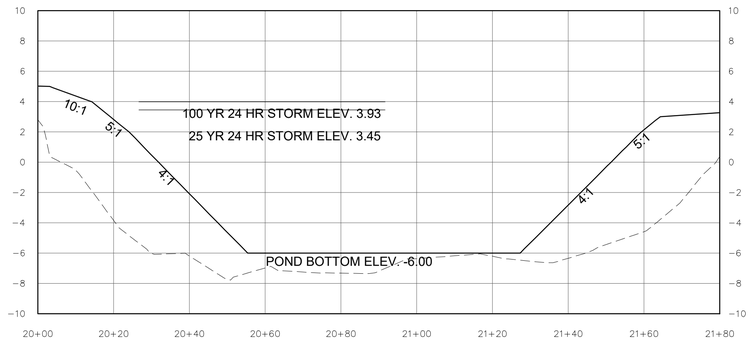
C7.1

SHEET 13 OF 32

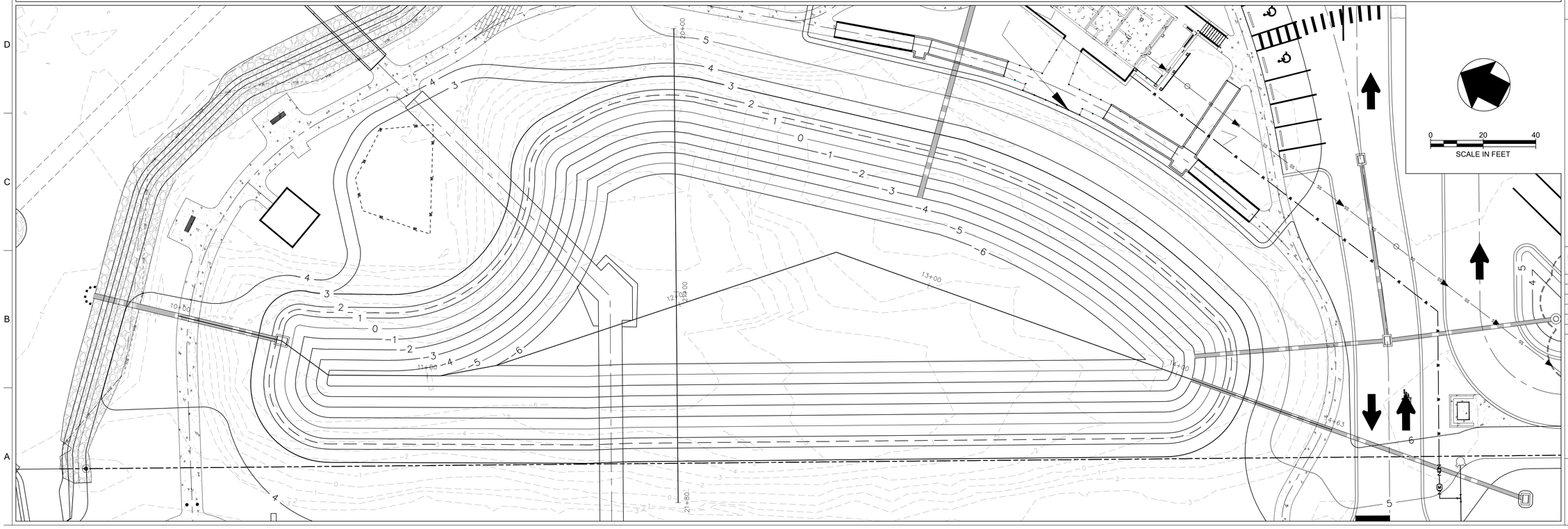
RYAN TRUBIA, 11/25/2024 8:29:00 AM, A:\40000s\40190\003\CADD\Sheets\TLH40190.003_Layout_90%.dwg



POND SECTION NW TO SE



POND SECTION NE TO SW



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David W Hutcheson

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Date: 2024.11.25 09:45:21 -05'00'

ENG DAVID W. HUTCHESON, PE. 38670

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

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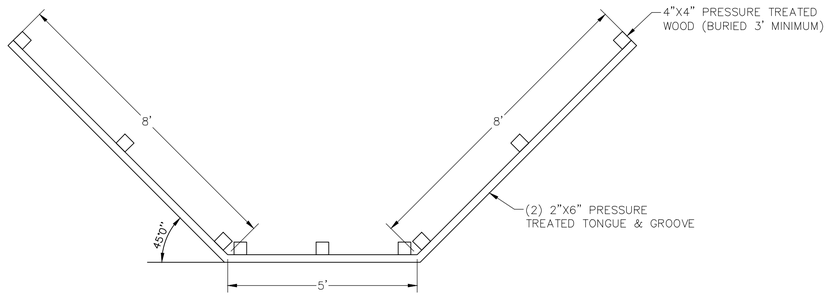
SHEET TITLE

POND SECTIONS

C7.2

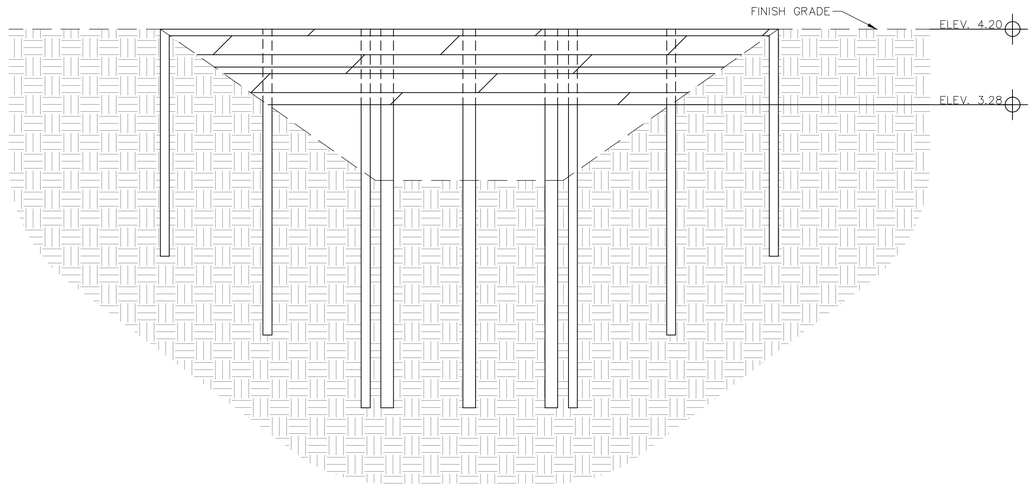
SHEET 14 OF 32

RYAN TRUBIA, 11/25/2024 8:29:07 AM, A:\40000s\40190\100\SCAD\Sheets\TLH40190.003_Layout_90%.dwg



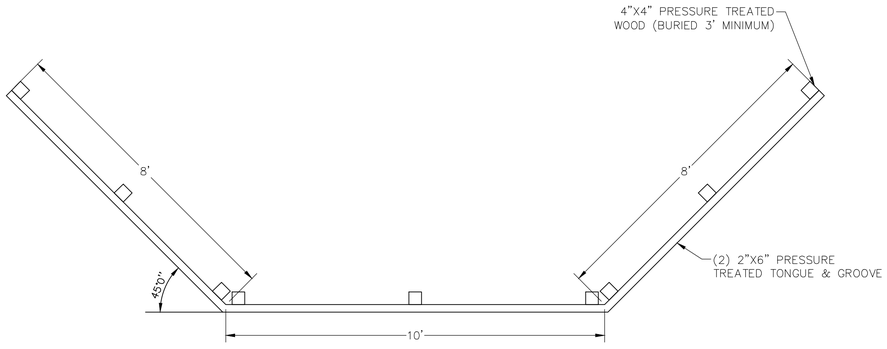
SKIMMER A PLAN VIEW DETAIL

N.T.S.



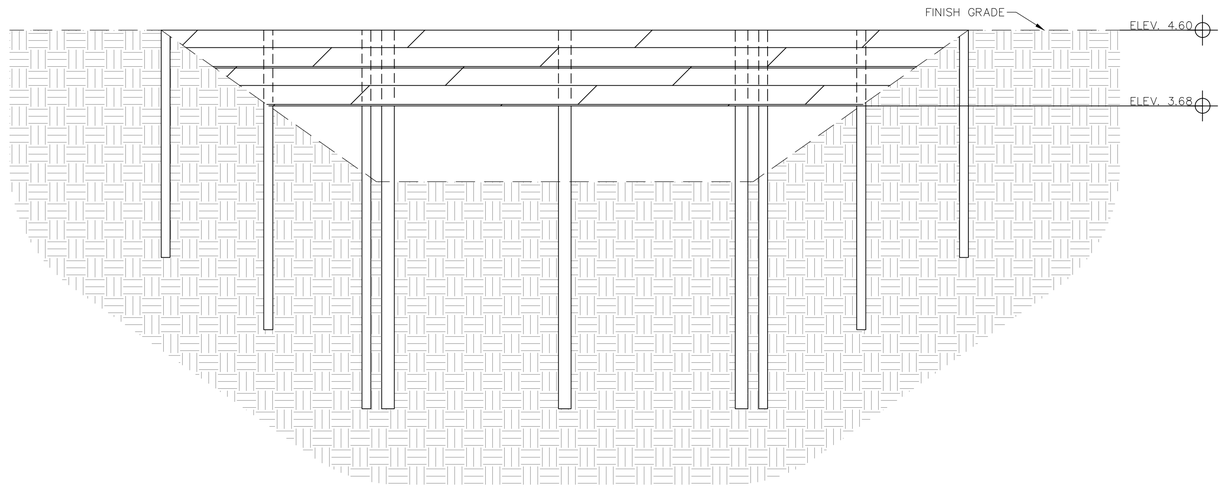
SKIMMER A VERTICAL VIEW DETAIL

N.T.S.



SKIMMER B PLAN VIEW DETAIL

N.T.S.



SKIMMER B VERTICAL VIEW DETAIL

N.T.S.

NOTES:
1. REPLACE EXISTING WOODEN SKIMMERS WITH NEW SKIMMERS AS SHOWN IN THE SAME APPROXIMATE LOCATION. SEE SHEET 6.2
2. SKIMMERS SHALL BE NO. 2 PRESSURE TREATED PINE 2"X6", PRIME GROUND CONTACT TONGUE AND GROOVE CENTER MATCH.
3. SUPPORT POSTS SHALL BE 4"X4" NO. 2 PRESSURE TREATED PINE, PRIME GROUND CONTACT, BURIED 3 FEET BELOW GROUND.

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TALLAHASSEE, FLORIDA 32309
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David W Hutcheson

Digitally signed by David W Hutcheson
DN: cn=David W Hutcheson, o=US, o=Florida, email=DHUTCHESON@HALFF.COM
Date: 2024.11.25 09:45:46 -05'00'

ENG DAVID W. HUTCHESON, PE. 38670

JOE'S BAYOU RECREATION
AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PROJECT TITLE

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

Call 811 before you dig.

PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

SKIMMER DETAILS

C8

SHEET 15 OF 32

RYAN TRUBIA, 11/25/2024 8:29:08 AM, A:\40000s\40190\003\CADD\Sheets\TLH40190.003_Layout_90%.dwg

NOTES:
1. SEE TAYLOR ENGINEERING DRAWINGS FOR ADDITIONAL EROSION AND TURBIDITY CONTROL REQUIREMENTS.

NORTH

0 30 60

SCALE IN FEET

93 LF OF HEAVY DUTY SILT FENCE

338 LF OF HEAVY DUTY SILT FENCE

2,030 LF OF HEAVY DUTY SILT FENCE

TURBIDITY BARRIER

INLET PROTECTION TYP.

INLET PROTECTION TYP.

INLET PROTECTION TYP.

369 LF OF HEAVY DUTY SILT FENCE

INSTALL CONSTRUCTION ENTRANCE

INSTALL CONSTRUCTION ENTRANCE

INSTALL CONSTRUCTION ENTRANCE

BEACH DRIVE
100' PUBLIC R/W

(REFERENCE BEARING)
N26°59'27"W 804.16' (F)
N27°53'23"W 844.08' (D)

halff
2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

DAVID W. HUTCHESON LICENSE No 38670 STATE OF FLORIDA PROFESSIONAL ENGINEER

David W Hutcheson

Digitally signed by David W Hutcheson
DN: cn=David W Hutcheson, c=US, o=HALFF, email=DHUTCHESON@HALFF.COM
Date: 2024.11.25 09:48:21 -05'00'

ENG DAVID W. HUTCHESON, PE. 38670

PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

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SHEET TITLE

STORMWATER POLLUTION PREVENTION PLAN SOUTHERN

C9.1

SHEET 16 OF 32

RYAN TRUBIA, 11/25/2024 8:29:12 AM, A:\40000s\40190\003\CADD\Sheets\TLH40190.003_Layout_90%.dwg

NOTES:
1. SEE TAYLOR ENGINEERING DRAWINGS FOR ADDITIONAL EROSION AND TURBIDITY CONTROL REQUIREMENTS.

NORTH

0 30 60

SCALE IN FEET

TURBIDITY BARRIER

INLET PROTECTION TYP.

BEACH DRIVE
100' PUBLIC R/W

INSTALL CONSTRUCTION ENTRANCE

INSTALL CONSTRUCTION ENTRANCE

342 LF OF HEAVY DUTY SILT FENCE

203 LF OF HEAVY DUTY SILT FENCE

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TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

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David W Hutcheson

Digitally signed by David W Hutcheson
DN: cn=David W Hutcheson, o=US, email=DHUTCHESON@HALFF.COM
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PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

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DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

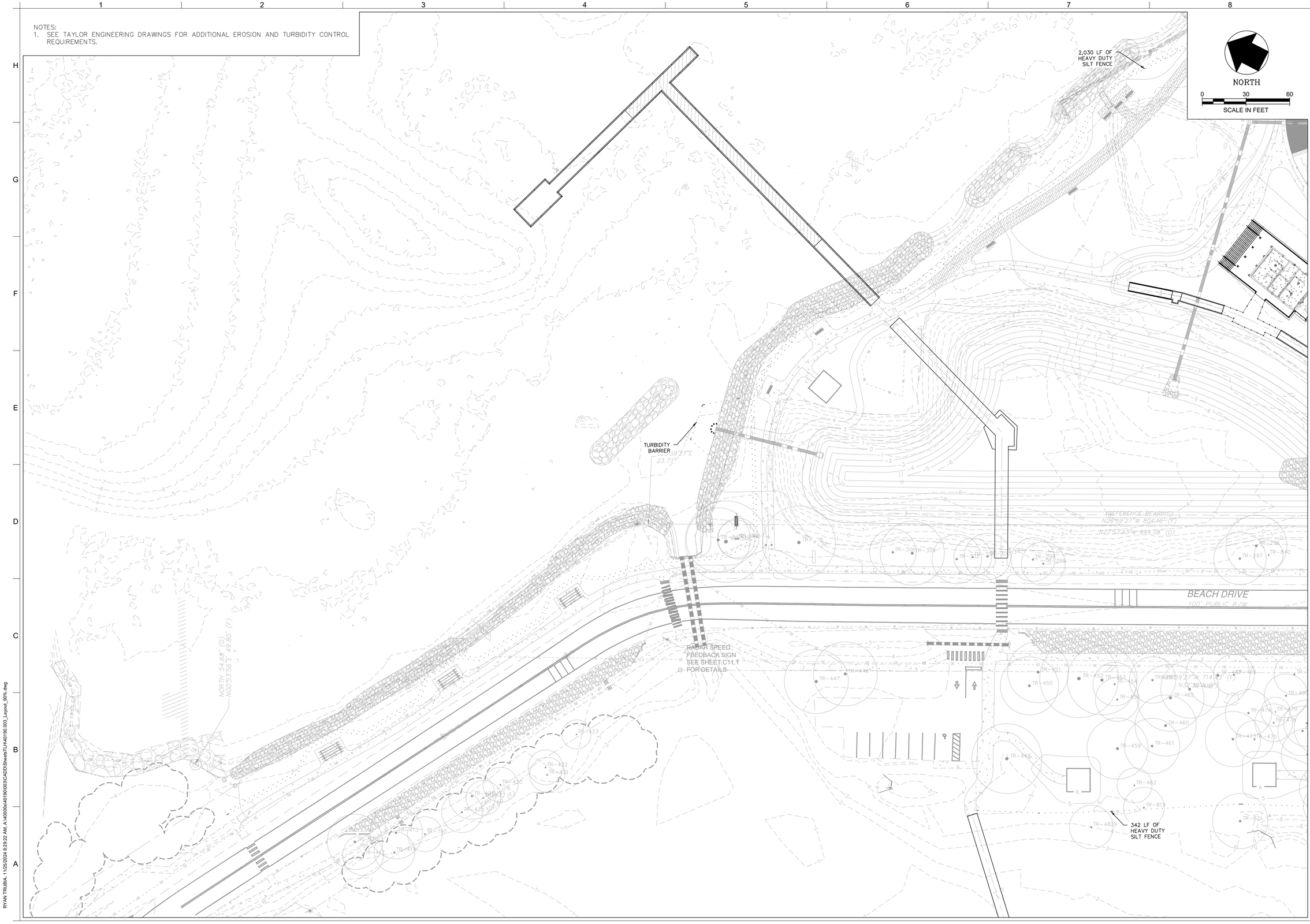
STORMWATER POLLUTION PREVENTION PLAN WESTERN

C9.2

SHEET 17 OF 32

RYAN TRUBIA, 11/25/2024 8:29:17 AM, A:\40000s\40190\003\CADD\Sheets\TLH40190.003_Layout_90%.dwg

NOTES:
1. SEE TAYLOR ENGINEERING DRAWINGS FOR ADDITIONAL EROSION AND TURBIDITY CONTROL REQUIREMENTS.



halff
2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

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Digitally signed by David W Hutcheson
DN: cn=David W Hutcheson, o=US, ou=HALFF, email=DHUTCHESON@HALFF.COM
Date: 2024.11.25 09:47:33 -05'00'

ENG DAVID W. HUTCHESON, PE. 38670

PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

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SHEET TITLE

STORMWATER POLLUTION PREVENTION PLAN NORTHERN

C9.3

SHEET 18 OF 32

RYAN TRUBIA, 11/25/2024 8:29:22 AM, A:\40000s\40190\003\CAD\Sheets\1LH40190.003_Layout_50%.dwg

RECORD KEEPING

CONTRACTOR SHALL COMPLETE THE NECESSARY RECORD KEEPING TASKS IN A REGULAR AND EXPEDIENT MANNER WHILE CONSTRUCTION ACTIVITIES ARE OCCURRING.

1. CONTRACTOR SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOTICE OF TERMINATION (NOT) IS SUBMITTED TO FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP):
   a) A COPY OF ALL NOTICES OF INTENT (NOI) SUBMITTED TO FDEP;
   b) A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN;
   c) A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT;
   d) A COPY OF ALL INSPECTION REPORTS GENERATED AS REQUIRED BY THE FDEP NPDES GENERAL PERMIT;
   e) A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED DURING THE COURSE OF THE PROJECT;
   f) DAILY RAINFALL INFORMATION COLLECTED.
2. CONTRACTOR SHALL RECORD THE FOLLOWING DATES:
   a) WHEN MAJOR GRADING ACTIVITIES OCCUR;
   b) WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE;
   c) WHEN STABILIZATION (I.E. EROSION CONTROL) MEASURES BEGIN.
3. CONTRACTOR SHALL PROVIDE A FOREMAN OR SUPERINTENDENT WHO IS CERTIFIED UNDER THE FLORIDA STORMWATER, EROSION, AND SEDIMENTATION CONTROL INSPECTOR TRAINING PROGRAM. SAID FOREMAN OR SUPERINTENDENT SHALL BE AVAILABLE IN PERSON OR BY TELEPHONE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.
4. QUALIFIED INSPECTORS WHO HAVE KNOWLEDGE AND EXPERIENCE IN THE PRINCIPLES AND PRACTICE OF SEDIMENT AND EROSION CONTROL SHALL COMPLETE PROJECT SITE INSPECTIONS:
   a) AT LEAST ONCE EVERY SEVEN (7) DAYS;
   b) WITHIN 24 HOURS AFTER THE END OF A STORM EVENT OF 0.50 INCHES (IN.) OR MORE.
5. COPIES OF ALL NOI'S, NOT'S, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE REPORTS AND ALL OTHER RECORDS RESULTING FROM THE NPDES GENERAL PERMIT SHALL BE RETAINED BY THE CONTRACTOR WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THE PERMIT. RECORDS SHALL BE MAINTAINED AT THE CONTRACTORS PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE SITE.
6. CONTRACTOR SHALL PROVIDE COPIES OF ALL STORMWATER POLLUTION PREVENTION PLAN (SWPPP) RECORDS TO THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE BY THE 10TH DAY OF EACH MONTH FOR THE IMMEDIATELY PRECEDING MONTH.

CRITICAL AREAS

THERE ARE SEVERAL CRITICAL FEATURES ON THE SITE THAT SHALL NOT BE IMPACTED BY CONSTRUCTION ACTIVITIES OR EROSION AND SEDIMENTATION RESULTING FROM SAME. THEY ARE AS FOLLOWS: THE WATERS OF DESTIN HARBOR AND THE WATERS OF EAST PASS.

GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN NPDES CONSTRUCTION PERMIT PRIOR TO CONSTRUCTION ACTIVITIES AND FOR COMPLIANCE WITH ALL STATE, LOCAL, AND FEDERAL PERMITS RELATED TO THIS PROJECT.
2. THE EROSION CONTROL MEASURES SET FORTH IN THESE PLANS ARE INTENDED AS MINIMUM STANDARDS. ALL EROSION CONTROL REQUIRED SHALL BE IN ACCORDANCE WITH THE SWPPP. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL EXPOSED AREAS, COST OF WHICH SHALL BE INCIDENTAL TO THE PROJECT.
3. PRIOR TO THE REQUIRED PRE-CONSTRUCTION MEETING, CONTRACTOR SHALL PROVIDE IN WRITING THE NAME AND TELEPHONE NUMBER OF THE STORMWATER CONTROL OFFICER TO CITY OF DESTIN PLANNING AND DEVELOPMENT SERVICES.
4. THE STORMWATER CONTROL OFFICER SHALL BE RESPONSIBLE FOR CONTINUALLY MONITORING WEATHER CONDITIONS AND EVALUATING THE EFFECTIVENESS OF THE CONTROL MEASURES THROUGHOUT ALL PHASES OF CONSTRUCTION.
5. AS CONSTRUCTION PROGRESSES, THE STORMWATER CONTROL OFFICER SHALL MAKE ADJUSTMENTS AND/OR INSTALL ADDITIONAL MEASURES TO PREVENT DIRECT FLOW OR TRACKING OF SEDIMENTS ONTO ADJACENT PROPERTY, CONSERVATION AREAS, PUBLIC STREETS OR DRAINAGE SYSTEMS.
6. TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PLACED ADJACENT TO ANY WATERWAY OR DRAINAGE FEATURE PRIOR TO CONSTRUCTION AND REMAIN IN PLACE UNTIL CONSTRUCTION OF THE FEATURE IS COMPLETE AND ALL AREAS ARE SUITABLY STABILIZED.
7. CONTRACTOR SHALL REVISE THE SWPPP WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING AN INSPECTION WHEN ADDITIONS AND/OR MODIFICATIONS TO BEST MANAGEMENT PRACTICES (BMPS) ARE NECESSARY TO CORRECT OBSERVED PROBLEMS. REVISIONS SHALL OCCUR WHENEVER:
   a) A CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE AT THE CONSTRUCTION SITE HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE UNITED STATES NOT PREVIOUSLY ADDRESSED IN THE DOCUMENT;
   b) DISCHARGES ARE CAUSING WATER QUALITY EXCEEDANCES, AS DEFINED BY THE EPA, OR THE BMPS ARE INEFFECTIVE IN MINIMIZING POLLUTANTS IN STORMWATER DISCHARGING FROM THE CONSTRUCTION SITE.
8. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE AT LOCATIONS SHOWN IN THE PLANS OR AS REQUIRED UNTIL CONSTRUCTION IS COMPLETED, SOILS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. ALL EROSION CONTROL MEASURES ARE THEN TO BE REMOVED UPON APPROVAL BY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE.
9. EROSION CONTROL ITEMS ARE ESTIMATED FOR PREVENTION, CONTROL, AND ABATEMENT OF EROSION, SEDIMENTATION AND WATER POLLUTION. THESE ITEMS ARE TO BE USED AT LOCATIONS DESCRIBED IN THE APPROVED SWPPP OR AS DIRECTED BY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
10. ANY SEDIMENTS, GRAVEL OR MUD SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ADJACENT PROPERTY, ROADWAYS OR INTO STORM DRAINAGE SYSTEMS SHALL BE RECOVERED AND DISPOSED OF PROPERLY.
11. SWEEPING THE PERIMETER ROADS SHALL BE REQUIRED AS NEEDED TO REMOVE ANY DEBRIS OR SEDIMENT RESULTING FROM PROJECT ACTIVITIES OR AT THE DIRECTION OF REGULATORY AGENCIES INSPECTING THE PROJECT.
12. ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED DURING ANY PHASE OF DEVELOPMENT AT THE DISCRETION OF REGULATORY AGENCIES INSPECTING THE PROJECT.
13. CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE. CONTRACTOR SHALL PROVIDE THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. SINCE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AND INTENDED FOR EQUIPMENT USE AS A HAZARDOUS MATERIAL, SUCH PRODUCTS DO NOT NEED THE MSDS SUBMITTAL. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE AND WHO SHALL PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE; HOWEVER, CONTRACTOR SHALL RE-LOCATE CONSTRUCTION ACTIVITIES TO ANOTHER AREA OF THE PROJECT UNTIL SUCH APPROVAL IS PROVIDED.
14. ALL SOD MATERIALS SHALL BE SUBJECT TO INSPECTION PRIOR TO PLACEMENT. ANY SOD WITH NOXIOUS WEEDS AND GRASSES SHALL BE REJECTED FOR USE ON THE PROJECT. CONTRACTOR SHALL FURNISH THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE, PRIOR TO INCORPORATION INTO THE PROJECT, A CERTIFICATION FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICE DIVISION OF PLANT INDUSTRY, STATING THAT THE SOD, HAY, STRAW, AND MULCH MATERIALS ARE FREE OF NOXIOUS WEEDS.
15. EQUIPMENT MAINTENANCE AND REPAIR SHALL BE LIMITED TO ONE AREA OF THE PROJECT. AN ADEQUATE NUMBER OF WASTE DISPOSAL RECEPTACLES FOR LIQUID AND SOLID WASTE SHALL BE PROVIDED. WASTE SHALL BE DISPOSED OF PROPERLY OFF-SITE. THE MAINTENANCE AREAS SHALL BE INSPECTED AND CLEANED DAILY. CARE SHALL BE TAKEN THAT ANY OILS, GASOLINE, GREASE, SOLVENTS, AND OTHER POTENTIAL POLLUTANTS SHALL NOT BE WASHED DIRECTLY INTO THE ADJACENT STORMWATER MANAGEMENT FACILITY EITHER DIRECTLY OR INDIRECTLY THROUGH THE STORMWATER CONVEYANCE SYSTEM.
16. A SUFFICIENT NUMBER OF WASTE AND TRASH RECEPTACLES SHALL BE PROVIDED AT ALL TIMES. RECEPTACLES AND OTHER WASTE COLLECTION AREAS SHALL BE KEPT NEAT AND ORDERLY. TRASH CANS AND DUMPSTERS SHALL HAVE COVERS TO PREVENT THE ENTRANCE OF RAINFALL. ALL WASTE MATERIALS SHALL BE COLLECTED WEEKLY AT A MINIMUM AND DISPOSED AT A SUITABLE LANDFILL. TRASH COLLECTION POINTS SHALL BE LOCATED WHERE THEY WILL BE LEAST IMPACTED BY CONCENTRATED STORMWATER RUNOFF.
17. DUST CONTROL TECHNIQUES SHALL BE USED DURING DEMOLITION WHERE LARGE AMOUNTS OF DUST ARE GENERATED. IF WATER OR SLURRY IS USED TO CONTROL DUST, IT SHALL BE RETAINED ON THE SITE AND NOT BE ALLOWED TO ENTER THE CONVEYANCE SYSTEM, THE ADJACENT STORMWATER MANAGEMENT FACILITY OR WATERWAYS.
18. DUMP TRUCKS, CONCRETE TRUCKS AND OTHER CONSTRUCTION EQUIPMENT SHALL NOT BE WASHED AT LOCATIONS WHERE RUNOFF WILL FLOW DIRECTLY INTO THE ADJACENT STORMWATER MANAGEMENT FACILITY OR STORMWATER CONVEYANCE SYSTEM. AN AREA SHALL BE DESIGNATED BY THE CONTRACTOR FOR WASHING VEHICLES AND WILL BE LOCATED WHERE THE WASH WATER WILL SPREAD OUT AND EVAPORATE OR INFILTRATE DIRECTLY INTO THE GROUND OR WHERE THE RUNOFF CAN BE COLLECTED IN A TEMPORARY HOLDING OR SEEPAGE BASIN. WASH AREAS SHALL HAVE GRAVEL BASES TO MINIMIZE MUD GENERATION.
19. AN ISOLATED AREA SHALL BE DESIGNATED TO STORE CHEMICALS, CEMENTS, SOLVENTS, PAINTS, OR OTHER POTENTIAL WATER POLLUTANTS. THE AREA SHALL BE SO LOCATED AS TO ELIMINATE RUNOFF POLLUTION. TOXIC CHEMICALS AND MATERIALS, SUCH AS PESTICIDES, PAINTS, AND ACIDS SHALL BE STORED ACCORDING TO THE MANUFACTURER'S GUIDELINES. CARE SHALL BE TAKEN IN THE USE OF THESE MATERIALS TO AVOID ACCIDENTAL SPILLS. CONTAINERS OF CONSTRUCTION MATERIALS SHALL NOT BE WASHED IN OR NEAR THE ADJACENT STORMWATER MANAGEMENT FACILITY OR THE STORMWATER CONVEYANCE SYSTEM. GROUNDWATER RESOURCES SHALL BE PROTECTED BY THE USE OF PLASTIC MATS, TAR PAPER OR OTHER IMPERVIOUS MATERIALS ON ANY GROUND SURFACE WHERE TOXIC LIQUIDS ARE TO BE OPENED AND STORED.
20. ADEQUATE SANITARY FACILITIES SHALL BE PROVIDED DURING ALL CONSTRUCTION PHASES FOR WORKERS ACCORDING TO APPLICABLE HEALTH AND SAFETY PRACTICES AND REGULATIONS. SANITARY FACILITIES SHALL BE LOCATED AWAY FROM INLETS AND THE ADJACENT STORMWATER MANAGEMENT FACILITY TO AVOID ACCIDENTAL SPILLS INTO THE STORMWATER SYSTEM.

CONSTRUCTION SCHEDULE

THE PROJECT WILL BE CONSTRUCTED IN A SINGLE PHASE, WITH A CONSTRUCTION START OF SEPTEMBER 1, 2018. CONSTRUCTION IS EXPECTED TO BE COMPLETE BY JANUARY 31, 2018 WITH DURATION OF 120 DAYS.

BEST MANAGEMENT PRACTICES

THE FOLLOWING BMPS SHALL BE USED TO CONTROL SEDIMENTATION AND EROSION DURING THE PROJECT:

1. A SOIL TRACKING PREVENTION DEVICE SHALL BE PROVIDED TO PREVENT THE TRACKING OF SOILS FROM THE SITE ONTO THE ADJACENT ROADWAYS.
2. ROCK BARRIERS FOR INLET PROTECTION FOR DITCH BOTTOM INLETS SHALL BE USED THROUGHOUT THE PROJECT WHEREVER THERE ARE EXISTING OR NEWLY CONSTRUCTED DITCH BOTTOM INLETS.
3. VEGETATIVE COVERS, BOTH TEMPORARY AND PERMANENT SHALL BE USED TO STABILIZE DISTURBED SOIL THROUGHOUT THE PROJECT.
4. PERMANENT OUTLET PROTECTION SHALL BE PROVIDED AT PROPOSED OUTFALLS AS A PERMANENT PART OF THE CONSTRUCTED STORMWATER FACILITIES. SEE GRADING AND DRAINAGE PLANS FOR ADDITIONAL INFORMATION.
5. SILT FENCE BARRIER SHALL BE USED TO DETER MIGRATION OF SEDIMENTS FROM THE PROJECT SITE INTO THE STORMWATER MANAGEMENT FACILITY NORTH OF THE SITE.

SPECIFICATIONS

SOIL TRACKING PREVENTION DEVICE

1. THE AREA OF THE ENTRANCE SHALL BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL.
2. GRAVEL SHALL BE PLACED TO THE SPECIFIED DIMENSIONS.
3. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHALL BE CONSTRUCTED SO AS TO INTERCEPT SEDIMENT BEFORE IT IS CARRIED OFF-SITE INTO THE STORMWATER CONVEYANCE SYSTEM, OR THE STORMWATER MANAGEMENT FACILITY.
4. IF WASH RACKS ARE USED, THEY SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
5. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE MUD, THEN THE TIRES SHALL BE WASHED BEFORE THE VEHICLE ENTERS A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS SHALL BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF-SITE, INTO THE STORMWATER CONVEYANCE SYSTEM OR THE STORMWATER MANAGEMENT FACILITY.

VEGETATIVE COVERS: TEMPORARY SEEDING

1. VEGETATION SHALL BE USED SO THAT DISTURBED AREAS WILL NOT BE DESTABILIZED FOR MORE THAN SEVEN (7) DAYS. SHOULD AREAS REMAIN DISTURBED FOR MORE THAN SEVEN (7) DAYS, THE AREA SHALL BE TEMPORARILY STABILIZED AS OUTLINED BELOW. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH 4,000 POUNDS (LB.) OF STRAW PER ACRE. IF EXPOSED SLOPES ARE GREATER THAN OR EQUAL TO 5%, THEN AN EROSION BLANKET SUCH AS NORTH AMERICAN GREEN BIONET S75BN SHALL BE UTILIZED UNTIL THE AREA ACHIEVES FINAL STABILIZATION. HYDROMULCH MAY BE USED AS AN ALTERNATIVE.
2. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR ARE TO BE LEFT IDLE FOR MORE THAN 14 DAYS, SHALL BE STABILIZED WITH TEMPORARY SEED, SOD OR PERMANENT VEGETATIVE STABILIZATION METHODS
3. QUICK GROWING/TEMPORARY SEEDING MIXTURE SHALL BE A MIXTURE OF ANNUAL AND PERENNIAL PLANT SPECIES AS OUTLINED BELOW. SEEDING RATES QUOTED ARE BASED ON PURE LIVE SEED.
   a) MARCH–APRIL PLANTING: ANNUAL RYEGRASS AT A RATE OF 10 POUNDS PER 1000 SF
   b) MAY PLANTING: BROWN TOP MILLET AT A RATE OF 10 POUNDS PER 1000SF
   c) JUNE–AUGUST PLANTING: MIX 50% RYE GRAIN AND 50% WINTER WHEAT AT A RATE OF 10 POUNDS PER 1000 SF
   d) SEPTEMBER–OCTOBER PLANTING: ANNUAL RYEGRASS AT A RATE OF 10 POUNDS PER 1000 SF
4. VEGETATION SHALL NOT BE ESTABLISHED ON SLOPES THAT ARE UNSUITABLE DUE TO INAPPROPRIATE SOIL TEXTURE, POOR INTERNAL STRUCTURE OR INTERNAL DRAINAGE, VOLUME OF OVERLAND FLOW, OR EXCESSIVE STEEPNESS, UNTIL MEASURES HAVE BEEN TAKEN TO CORRECT THESE PROBLEMS.
5. SURFACE ROUGHENING: IF THE AREA HAS BEEN RECENTLY LOOSENED OR DISTURBED, NO FURTHER ROUGHENING IS REQUIRED. WHEN THE AREA IS COMPACTED, CRUSTED, OR HARDENED, THE SOIL SURFACE SHALL BE LOOSENED BY DISKING, RAKING, HARROWING, OR OTHER ACCEPTABLE MEANS.
6. LIMING: WHERE SOILS ARE KNOWN TO BE HIGHLY ACID (PH 5.5 AND LOWER), LIME SHALL BE APPLIED AT THE RATE OF TWO TONS OF PULVERIZED AGRICULTURAL LIMESTONE PER AC.
7. FERTILIZER: SHALL BE APPLIED AS 130 LB./AC. OF 16-4-8 (3 LB./1,000 SF) OR EQUIVALENT. GREATER THAN 60% OF THE NITROGEN SHALL BE IN SLOW RELEASE FORM. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE TOP 2 TO 4 IN. OF THE SOIL.
8. CERTIFIED SEED SHALL BE USED FOR ALL SEEDING.
9. APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER ON A FIRM, FRIABLE SEEDBED. MAXIMUM SEEDING DEPTH SHALL BE ¼ IN.
10. WHEN HYDROSEEDING, IF A MACHINERY BREAKDOWN OF 30 MINUTES TO 2 HOURS OCCURS, 50% MORE SEED SHALL BE ADDED TO THE TANK, BASED ON THE PROPORTION OF THE SLURRY REMAINING IN THE TANK. BEYOND 2 HOURS, A FULL RATE OF NEW SEED SHALL BE NECESSARY.
11. ALL TEMPORARY SEEDING MUST BE MULCHED IMMEDIATELY UPON COMPLETION OF SEED APPLICATION.
12. NEW SEEDLINGS SHALL BE SUPPLIED WITH ADEQUATE MOISTURE. SUPPLY WATER AS NEEDED, ESPECIALLY LATE IN THE SEASON, IN ABNORMALLY HOT OR DRY WEATHER, OR ON ADVERSE SITES. WATER APPLICATION RATES SHALL BE CONTROLLED TO PREVENT RUNOFF.
13. INSPECT SEEDED AREAS FOR FAILURE AND MAKE NECESSARY REPAIRS AND RESEEDINGS WITHIN THE SAME SEASON, IF POSSIBLE.
14. IF VEGETATIVE COVER IS INADEQUATE TO PREVENT RILL EROSION, OVER-SEED AND FERTILIZE IN ACCORDANCE WITH SOIL TEST RESULTS.
15. SEEDLINGS SHALL BE FERTILIZED ONE YEAR AFTER PLANTING TO INSURE PROPER STAND DENSITY.

VEGETATIVE COVERS: SODDING

1. PRIOR TO SOIL PREPARATION, AREAS TO BE SODDED SHALL BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVAL PLAN. THESE OPERATIONS SHALL LEAVE AS MUCH TOPSOIL AS POSSIBLE OR REPLACE THE TOPSOIL TO A DEPTH OF 4IN.
2. SOIL TESTS SHALL BE MADE TO DETERMINE THE EXACT REQUIREMENTS FOR LIME AND FERTILIZER. THESE AMENDMENTS SHALL BE SPREAD EVENLY OVER THE AREA TO BE SODDED, AND INCORPORATED INTO THE TOP 3 TO 6 IN. OF THE SOIL BY DISKING, HARROWING, OR OTHER ACCEPTABLE MEANS.
3. PRIOR TO LAYING SOD, THE SOIL SURFACE SHALL BE CLEAR OF TRASH, DEBRIS, ROOTS, BRANCHES, STONES AND CLODS IN EXCESS OF 2 IN. IN LENGTH OR DIAMETER. SOD SHALL NOT BE APPLIED TO GRAVEL OR OTHER NON-SOIL SURFACES.
4. ANY IRREGULARITIES IN THE SOIL SURFACE RESULTING FROM TOPSOIL OR OTHER OPERATIONS SHALL BE FILLED OR LEVELED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
5. SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 IN., PLUS OR MINUS 1/4 IN., AT THE TIME OF CUTTING. THIS THICKNESS SHALL EXCLUDE SHOOT GROWTH AND THATCH.
6. PIECES OF SOD SHALL BE CUT TO THE SUPPLIER'S STANDARD WIDTH AND LENGTH, WITH A MAXIMUM ALLOWABLE DEVIATION IN ANY DIMENSION OF 5%. TORN OR UNEVEN PADS SHALL NOT BE ACCEPTABLE.
7. STANDARD SIZE SECTIONS OF SOD SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED FROM A FIRM GRASP ON ONE END OF THE SECTION.
8. SOD SHALL NOT BE CUT OR LAID IN EXCESSIVELY WET OR DRY WEATHER.
9. SOD SHALL BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS.
10. IRRIGATE AREAS TO BE SODDED WITH A MINIMUM OF 1/2 IN. OF WATER UNLESS RECENT RAINS HAVE PROVIDED EQUIVALENT MOISTURE.
11. THE FIRST ROW OF SOD SHALL BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACE PARALLEL TO AND BUTTING TIGHTLY AGAINST EACH OTHER. LATERAL JOINTS SHALL BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. CARE SHALL BE EXERCISED TO INSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS.
12. ON SLOPES 3:1 OR GREATER, OR WHEREVER EROSION MAY BE A PROBLEM, SOD SHALL BE LAID WITH STAGGERED JOINTS AND SECURED BY PEGGING OR OTHER APPROVED METHODS. SOD SHALL BE INSTALLED WITH THE LENGTH PERPENDICULAR TO THE SLOPE (ON THE CONTOUR). BEGIN LAYING SOD AT THE BOTTOM OF THE SLOPE AND WORK UPHILL.
13. AS SODDING OF CLEARLY DEFINED AREAS IS COMPLETED, SOD SHALL BE ROLLED OR TAMPED TO PROVIDE FIRM CONTACT BETWEEN ROOTS AND SOIL.
14. AFTER ROLLING, SOD SHALL BE IRRIGATED TO A DEPTH SUFFICIENT THAT THE UNDERSIDE OF THE SOD PAD AND THE SOIL 4 IN. BELOW THE SOD IS THOROUGHLY WET.
15. SOD SPECIES SHALL BE BERMUDA GRASS.

SILT FENCE BARRIER

1. SILT FENCE FABRIC SHALL BE BELTED SILT RETENTION FENCE BSRF PRIORITY 1 – GREEN BANK
2. POSTS FOR SILT FENCES SHALL BE EITHER 2 X 2 IN. SQUARE OR 1.33 LB. / LINEAR FT. STEEL WITH A MINIMUM LENGTH OF 4 FT. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.
3. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 2 IN. WIDE AND 8 IN. DEEP AROUND THE OUTSIDE PERIMETER OF THE STAKES.
4. THE FILTER FABRIC SHALL BE STAPLED TO THE WOODEN STAKES, AND 12 IN. OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE HEIGHT OF THE FILTER BARRIER SHALL BE A MINIMUM OF 24 IN.
5. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.

MAINTENANCE AND INSPECTION

ALL BMPS SHALL BE INSPECTED WEEKLY AT A MINIMUM AND AFTER EVERY RAINFALL EVENT EXCEEDING 1/2 IN. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY UPON COMPLETION OF THE INSPECTION. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF ANY SEDIMENT FILTER OR BARRIER. SUCH DEPOSITS SHALL BE DISPOSED OF IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

SOIL TRACKING PREVENTION DEVICE

1. THE ENTRANCE(S) SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS OF WAY.
2. TOP DRESS THE ENTRANCE PERIODICALLY WITH 2-IN. TO 4-IN. STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT WHEN VOID SPACES ARE FULL OF SEDIMENT.
3. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
4. SWEEP THE PAVED ROAD DAILY FOR SEDIMENTS AND STONES.
5. SOIL TRACKING PREVENTION DEVICE SHALL BE REMOVED PRIOR TO FINAL INSPECTION

ROCK BARRIERS FOR INLET PROTECTION

1. DITCH BOTTOM INLETS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL EVENT OF 1/2 IN. OR GREATER AND REPAIRS MADE AS NEEDED. INSPECT FOR CUT, ABRASIONS, AND PROPER INSTALLATION AND REPLACE OR RE-POSITION AS NECESSARY.
2. ROCK BARRIERS FOR INLET PROTECTION SHALL BE REMOVED WHEN ALL AREAS WITHIN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

VEGETATIVE COVERS: TEMPORARY SEEDING

1. INSPECT THE VEGETATED AREAS WEEKLY FOR SIGNS OF POOR OR NO GERMINATION AND INDICATIONS OF EROSION.
2. AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER ADEQUATELY TO PREVENT RILL EROSION SHALL BE FILLED IN WITH PROPER TOPSOIL AND RE-SEEDED AS SOON AS SUCH AREAS ARE IDENTIFIED.
3. AREAS WHERE SEEDING HAS BEEN ESTABLISHED SHALL BE MOWED A MINIMUM OF EVERY TWO (2) WEEKS.

VEGETATIVE COVERS: SODDING

1. INSPECT THE VEGETATED AREAS WEEKLY FOR SIGNS OF POOR OR NO GERMINATION AND INDICATIONS OF EROSION.
2. AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER ADEQUATELY TO PREVENT RILL EROSION SHALL BE FILLED IN WITH PROPER TOPSOIL AND RE-SODDED AS SOON AS SUCH AREAS ARE IDENTIFIED.
3. AREAS WHERE SODDING HAS BEEN ESTABLISHED SHALL BE MOWED A MINIMUM OF EVERY TWO (2) WEEKS.

SILT FENCE BARRIER

1. SILT FENCE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL EVENT OF 1/2 IN. OR GREATER AND AT LEAST DAILY DURING PROLONGED RAINFALL EVENTS. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED OR SODDED. INLET PROTECTION SHALL BE INSPECTED AND GEO-TEXTILE FABRIC SHALL BE CHANGED AS NEEDED TO ALLOW POSITIVE FLOW.
3. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE BEFORE THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

CONTRACTOR CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS SWPPP PREPARED THERE UNDER.

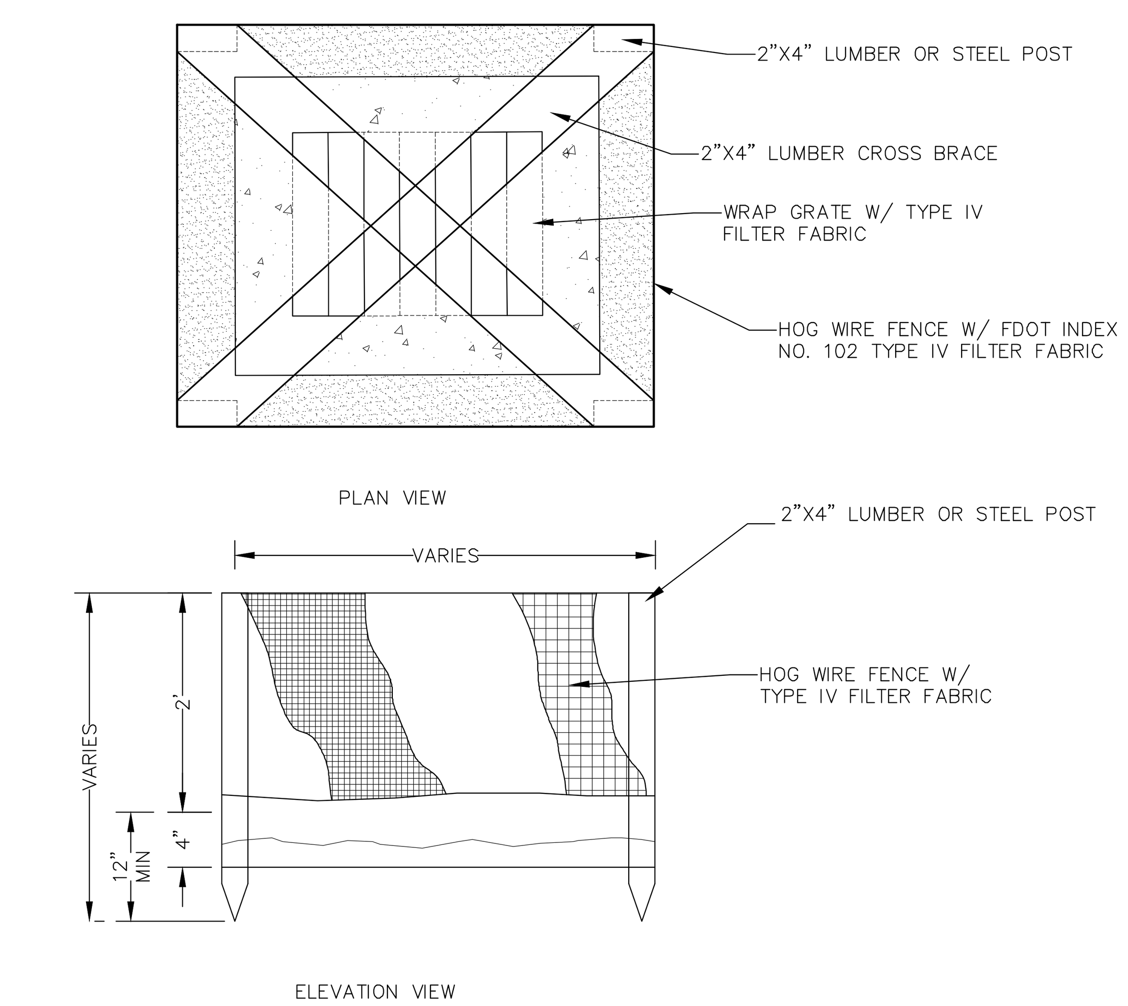
__________ ______________________________ ______________

CONTRACTOR DATE

CONTRACTOR SHALL CONTROL EROSION WITHIN THE PROJECT LIMITS SUCH THAT THERE ARE NO NEGATIVE IMPACTS DOWNSTREAM OF THE PROJECT DUE TO UNCONTROLLED EROSION OR SEDIMENTATION.

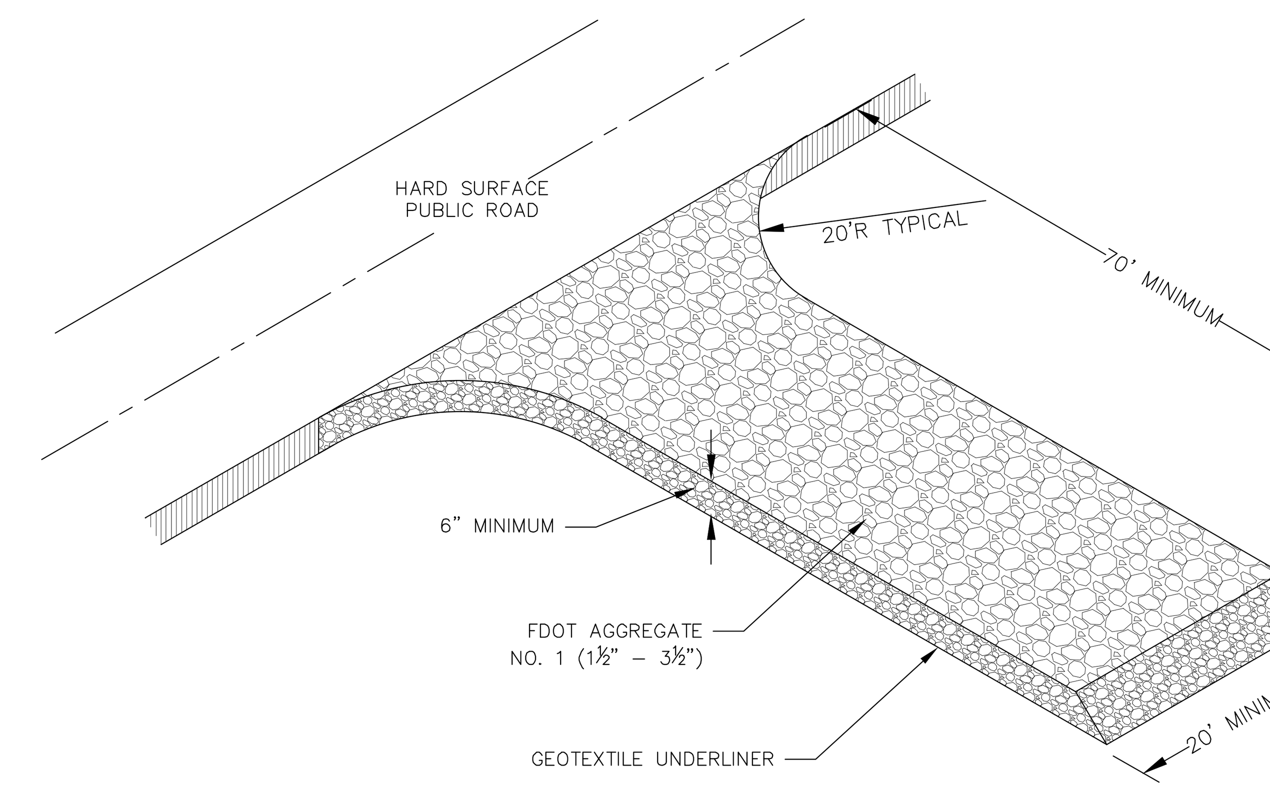
SHOULD ADDITIONAL BMPS BE REQUIRED TO CONTROL EROSION AND SEDIMENTATION FROM THE SITE, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SUPPLEMENTARY STORMWATER POLLUTION PROTECTION PLAN WITH APPROPRIATE BMPS PLACED AS NEEDED.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESCAPE OF SEDIMENT FROM THE SITE AND SHALL BE HELD RESPONSIBLE FOR ANY AND ALL IMPACTS RESULTING FROM SUCH EVENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF DOWNSTREAM IMPACTS DUE TO THE RELEASE OF SEDIMENTS FROM THE SITE INCLUDING BUT NOT LIMITED TO SEDIMENTATION AND EROSION THAT MAY RESULT FROM THE BUILDUP OF SUCH SEDIMENTS DOWNSTREAM OF THE PROJECT. CONTRACTOR SHALL FULLY BEAR THE FINANCIAL COST OF ANY PENALTIES OR FINES RESULTING FROM SUCH EVENTS.



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

N.T.S.



CONSTRUCTION ENTRANCE DETAIL

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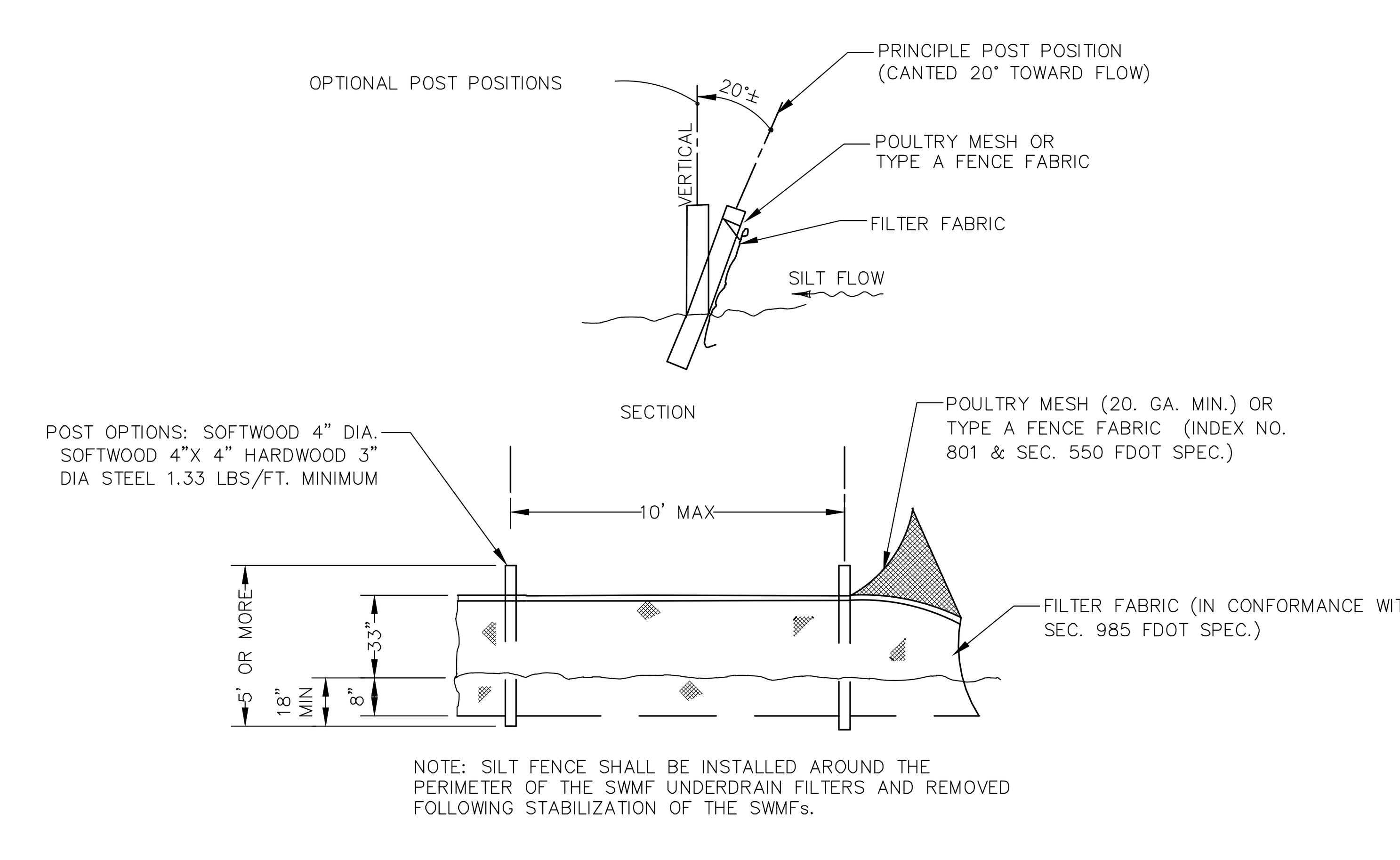


TYPE C HEAVY DUTY SILT FENCE

N.T.S.

RYAN TRUBIA, 11/25/2024 8:29:23 AM, A:\40000s\40190\003\CADD\Sheets\TLH40190.003_Layout_90%.dwg

halff
2255 KILLEARN CENTER BLVD., SUITE 100
TALLAHASSEE, FLORIDA 32303
TEL. (850) 224-4400

SEAL

DAVID W. HUTCHESON LICENSE No 38670 STATE OF FLORIDA PROFESSIONAL ENGINEER

David W Hutcheson — Digitally signed by David W Hutcheson DN: cn=David W Hutcheson, c=US, o=Florida, email=DHUTCHESON@HALFF.COM Date: 2024.11.25 09:47:38 -05'00'

ENG DAVID W. HUTCHESON, PE. 38670

PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

Call 811 before you dig.

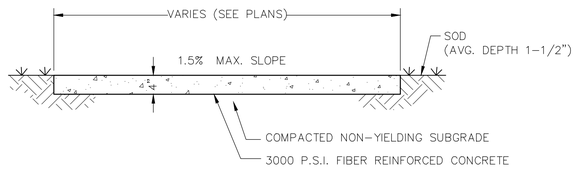
PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

STORMWATER POLLUTION PREVENTION NOTES AND DETAILS

C10

SHEET 19 OF 32



TYPICAL CONCRETE SIDEWALK DETAIL
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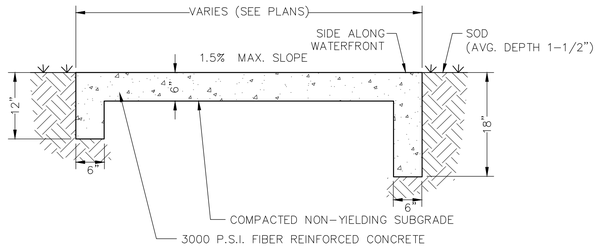

TYPICAL REINFORCED CONCRETE SIDEWALK WITH TURNDOWNS DETAIL
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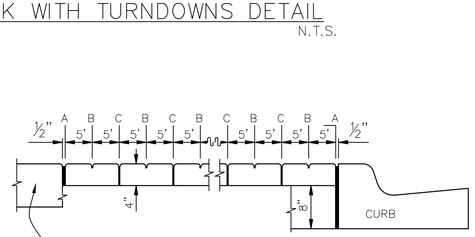


LONGITUDINAL SECTION

LEGEND:

A- ½" EXPANSION JOINTS (PREFORMED JOINT FILLER)

B- ⅛" DUMMY JOINTS, TOOLED

C- ⅛" FORMED OPEN JOINTS

D- 3/16" SAW CUT JOINTS, 1½" DEEP (WITHIN 96 HOURS) MAX. 5' CENTERS

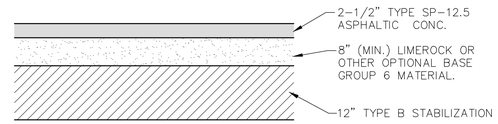
E- 3/16" SAW CUT JOINTS, 1½" DEEP (WITHIN 12 HOURS) MAX. 30' CENTERS
JOINT(S) REQUIRED WHEN LENGTH EXCEEDS 30'

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

NOTE: REFER TO FDOT STANDARD PLANS
522-001 FOR ADDITIONAL DETAILS

SIDEWALK JOINTS DETAIL
N.T.S.



(REFERENCE FDOT STANDARD SPECIFICATIONS)

TYPICAL EXTRA STRENGTH PAVEMENT DETAIL
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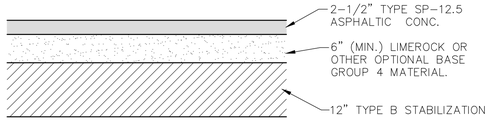

(REFERENCE FDOT STANDARD SPECIFICATIONS)

TYPICAL PAVEMENT DETAIL
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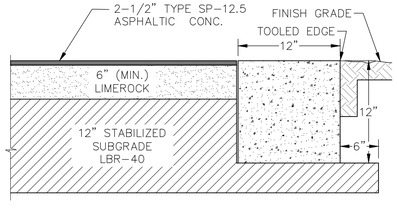

FLUSH HEADER CURB
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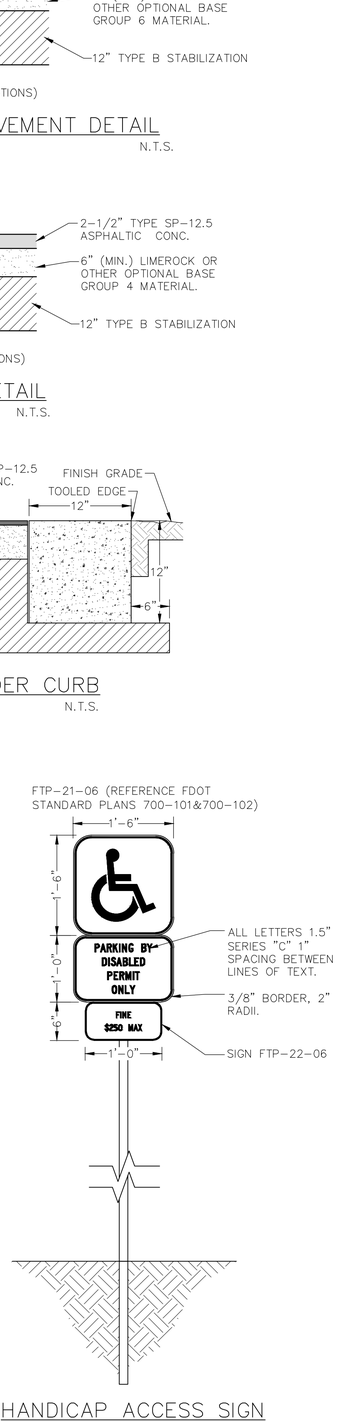

HANDICAP ACCESS SIGN
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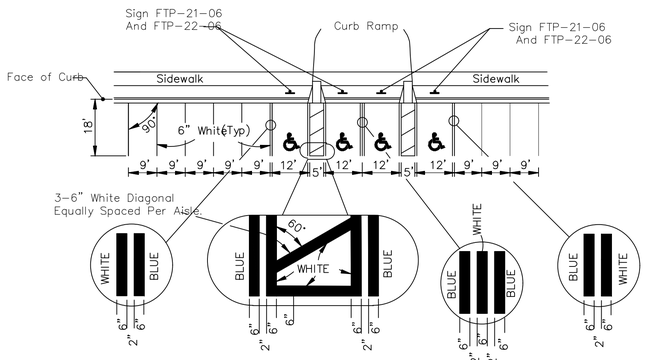
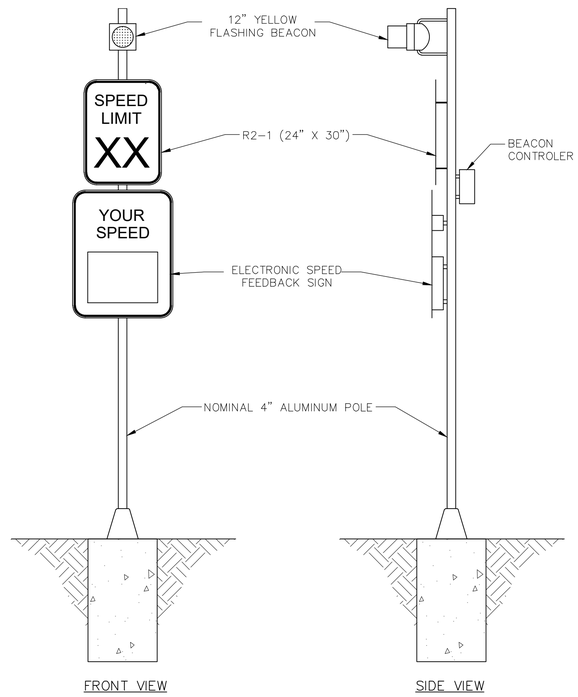


TYPICAL PER FDOT STANDARD PLANS INDEX
711-001

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. BLUE PAVEMENT MARKINGS SHALL BE TINTED TO MATCH SHADE 15180 OF FEDERAL STANDARDS 595A.
5. THE FTP-22-06 PANAL SHALL BE MOUNTED BELOW THE FTP-21-06 SIGN.

PAVEMENT MARKING FOR PARKING
N.T.S.

FTP-21-06 (REFERENCE FDOT
STANDARD PLANS 700-101&700-102)



RADAR SPEED FEEDBACK SIGN
N.T.S.

halff
2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL
DAVID W. HUTCHESON LICENSE No 38670 STATE OF FLORIDA PROFESSIONAL ENGINEER
David W Hutcheson
Digitally signed by David W Hutcheson
DN: cn=David W Hutcheson, o=US, ou=Halff, email=DHUTCHESON@HALFF.COM
Date: 2024.11.25 09:48:07 -05'00'
ENG DAVID W. HUTCHESON, PE. 38670

PROJECT TITLE
JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

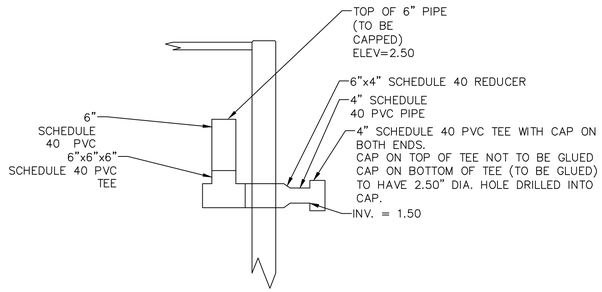
Call 811 before you dig.

PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE
CONSTRUCTION DETAILS

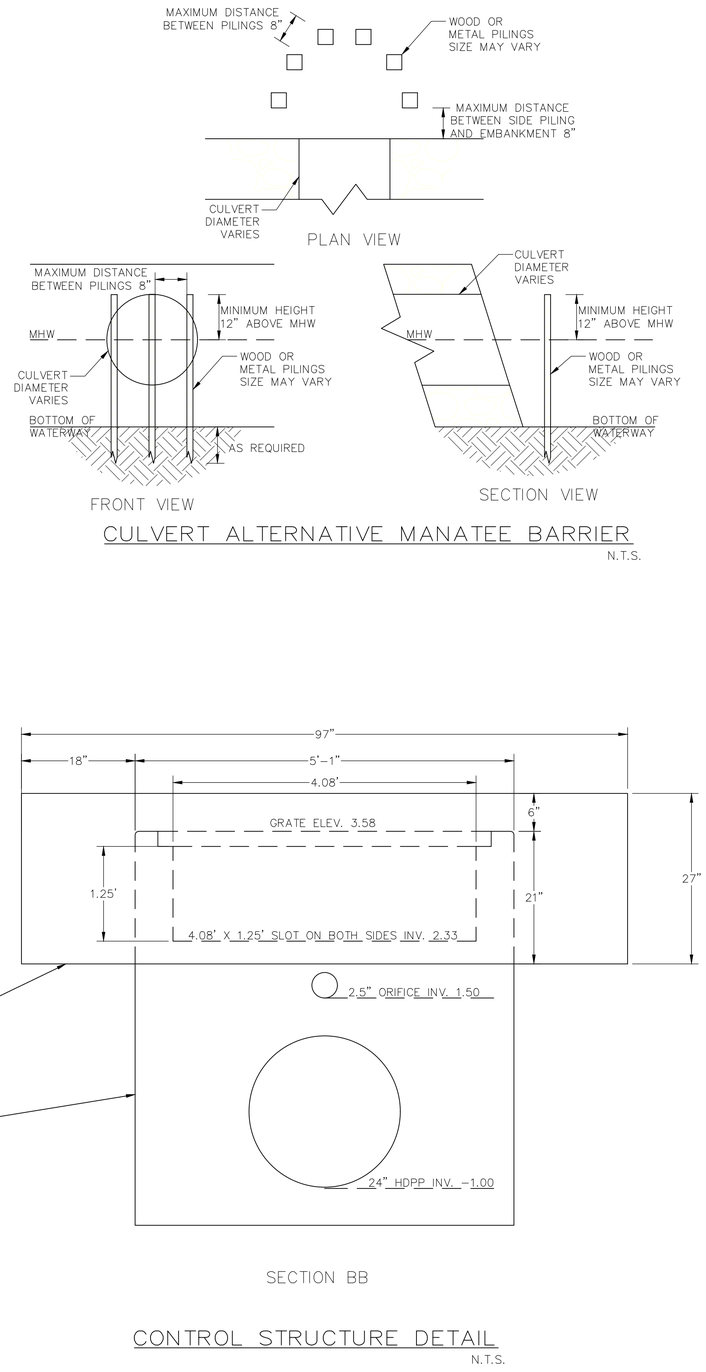
C11.1
SHEET 20 OF 32

RYAN TRUBIA, 11/25/2024 8:29:23 AM, A:\40000s\40190\003\CADD\Sheets\TLH40190.003_Layout_90%.dwg



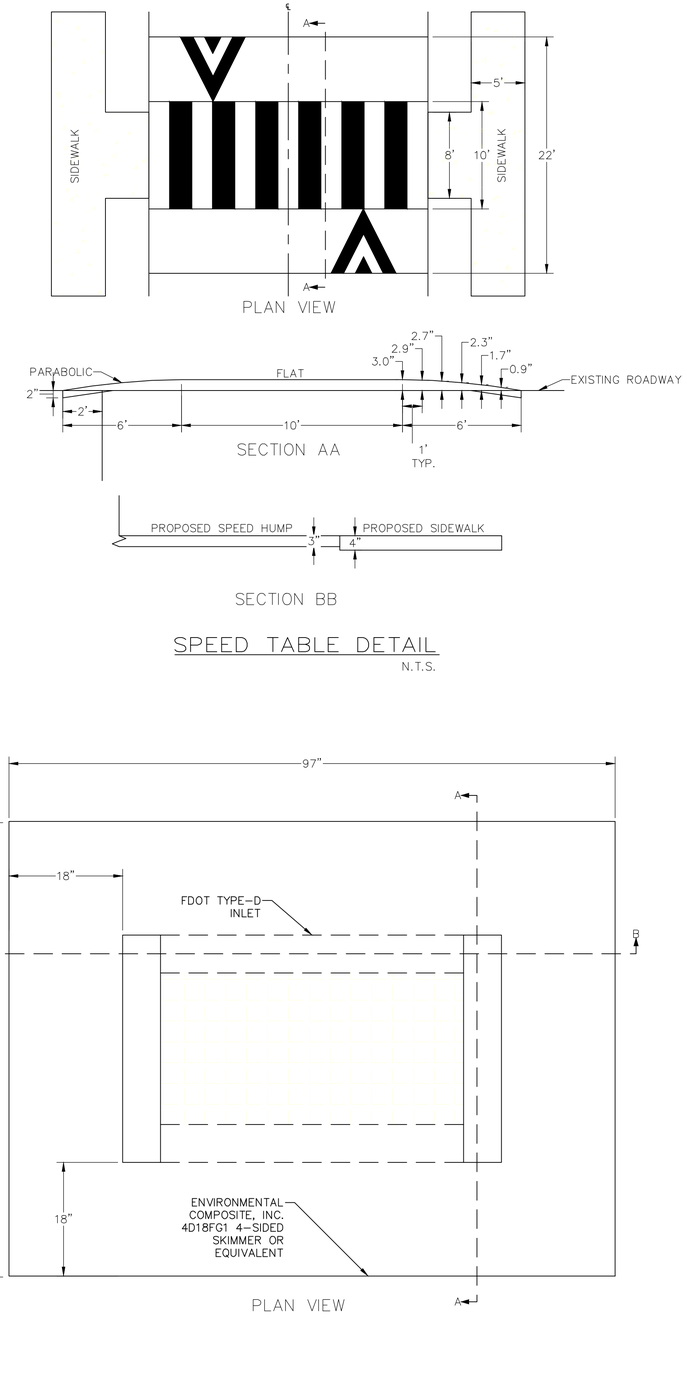
ORIFICE TEE DETAIL

N.T.S.



CULVERT ALTERNATIVE MANATEE BARRIER

N.T.S.



SPEED TABLE DETAIL

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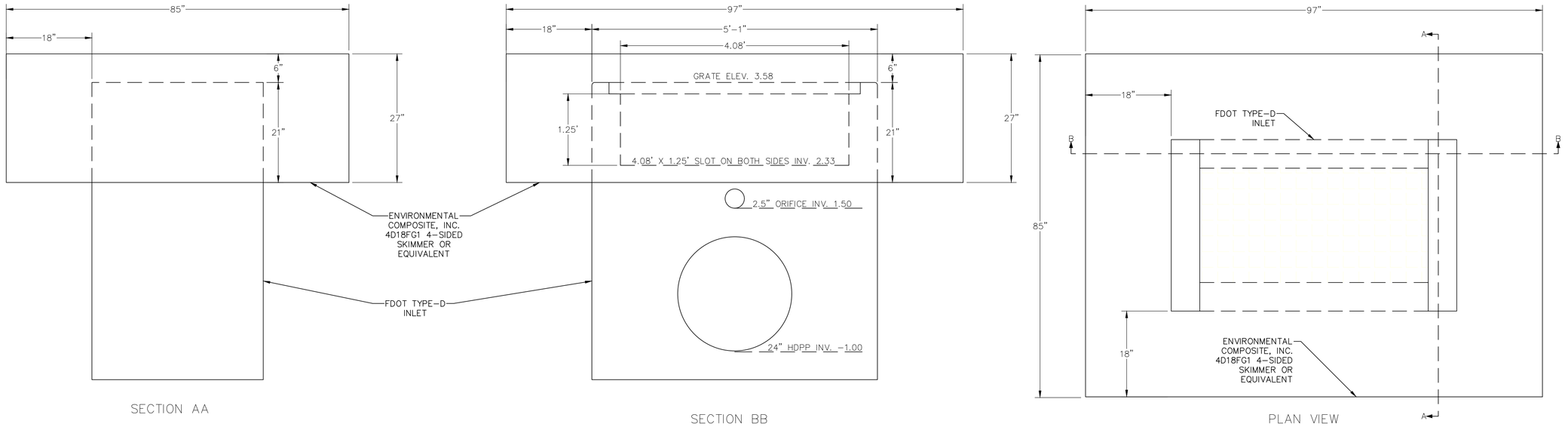

CONTROL STRUCTURE DETAIL

N.T.S.

halff
2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

DAVID W. HUTCHESON LICENSE No 38670 STATE OF FLORIDA PROFESSIONAL ENGINEER

David W Hutcheson

Digitally signed by David W Hutcheson
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Date: 2024.11.25 09:48:31 -05'00'

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PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

CONSTRUCTION DETAILS

C11.2

SHEET 21 OF 32

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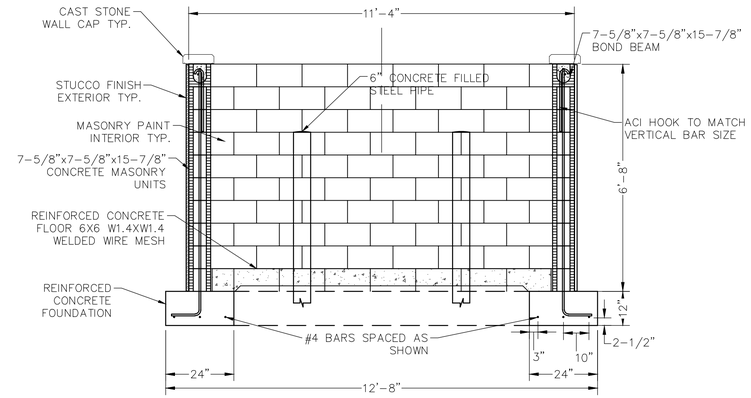

REFUSE CONTAINER ENCLOSURE SECTION A–A

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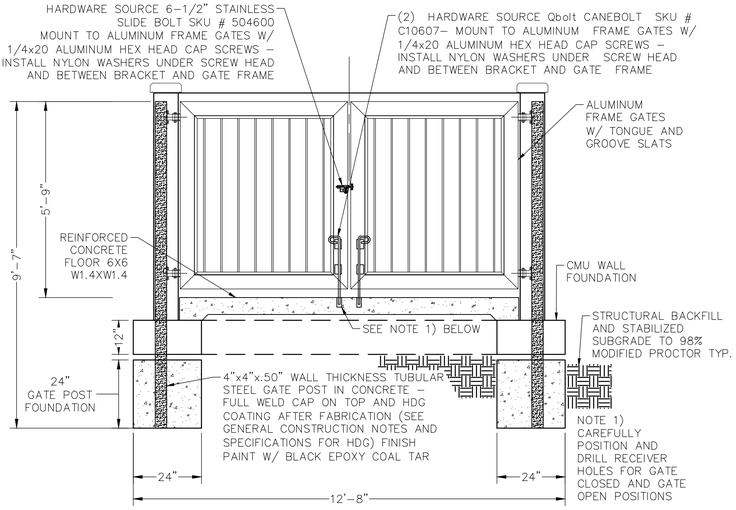

FRONT SECTION DETAIL REFUSE CONTAINER ENCLOSURE

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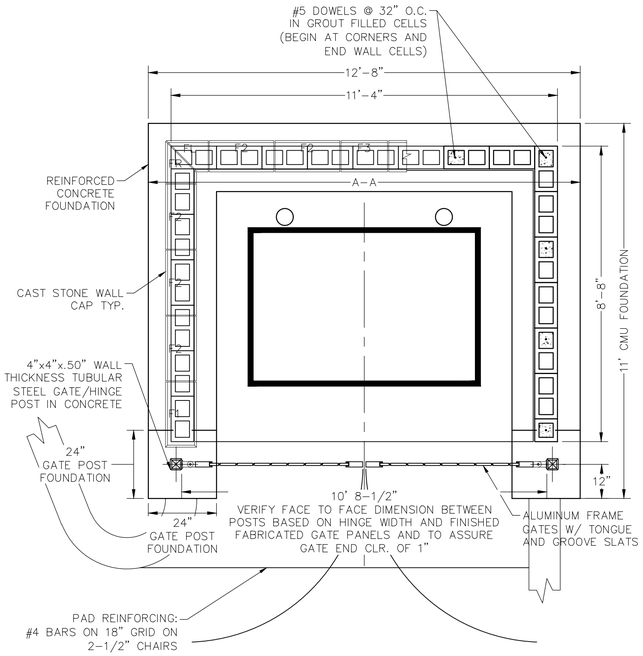

REFUSE CONTAINER ENCLOSURE

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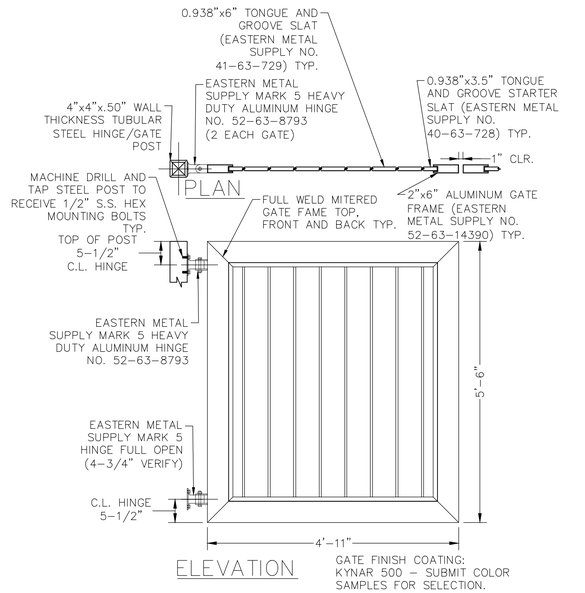
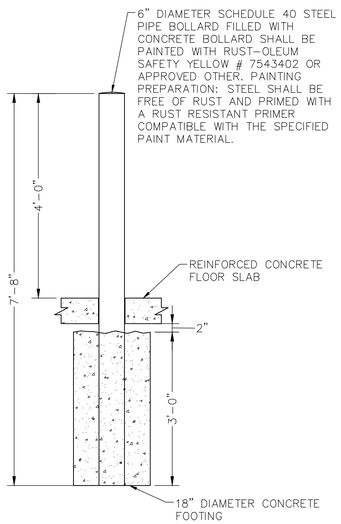


REFUSE CONTAINER ALUMINUM GATE DETAIL

N.T.S.



BOLLARD DETAIL

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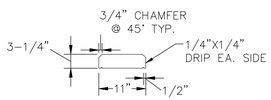

CAST STONE WALL CAP PROFILE

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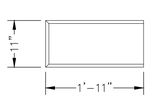

CAST STONE CAP 'F1'

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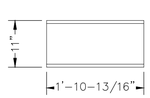

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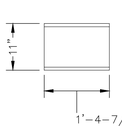

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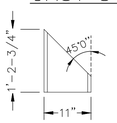

CAST STONE CAP 'FR'

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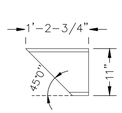

CAST STONE CAP 'FL'

N.T.S.

1. CONCRETE:
CONCRETE: (DESIGN PER CURRENT EDITION ACI 318)
SLAB ON GRADE: F'C=3000 PSI
ROADWAY HEADERS AND PAVEMENTS: F'C=4000 PSI
ALL OTHER CONCRETE: F'C=3000 PSI
ALL CONCRETE SHALL BE PROPORTIONED, MIXED, PLACED, FINISHED, AND CURED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 316, LATEST
CEMENT: ASTM C150 LATEST
AGGREGATES: ALL AGGREGATES SHALL CONFORM TO ASTM C33 LATEST, CLASS 4S.

FINE AGGREGATE: SHALL BE WASHED NATURAL SAND, CLEAN, SOUND, SHARP, SCREENED, AND WELL-GRADED WITH NO GRAIN LARGER THAN WILL PASS A NO. 4 SIEVE.
NOT LESS THAN 15%, NOR MORE THAN 30% BY WEIGHT SHALL PASS A NO. 50 SIEVE. NO FINE AGGREGATE SHALL BE USED IF IT CONTAINS MORE THAN 1% BY WEIGHT OF DELETERIOUS SUBSTANCES OR WHICH SHOWS A COLOR DARKER THAN PLATE 2 WHEN TESTED ACCORDING TO ASTM C40 LATEST.

COARSE AGGREGATE: SHALL BE WASHED, HARD, TOUGH, AND DURABLE SCREENED GRAVEL OR CRUSHED STONE HAVING NO MORE THAN 5% BY WEIGHT OF DELETERIOUS SUBSTANCES AND SOFT FRAGMENTS.
AGGREGATE SHALL BE WELL GRADED FROM THE LARGEST WHICH SHALL PASS A 1" MESH TO THE SMALLEST WHICH SHALL PASS A 3/8" MESH AND BE RETAINED BY A 1/4" MESH. ABRASION LOSS SHALL NOT EXCEED THE PERCENTAGES CONTAINED IN ASTM C33 LATEST, WHEN TESTED IN ACCORDANCE WITH THE PROCEDURES OUTLINED THEREIN. NO COARSE AGGREGATE SHALL BE USED IF IT CONTAINS MORE THAN 1% SILT OR WHICH SHOWS A COLOR DARKER THAN PLATE 1 WHEN TESTED ACCORDING TO ASTM C40 LATEST.

WATER: MIXING WATER FOR CONCRETE SHALL BE CLEAN, FRESH, AND SUITABLE FOR DRINKING AND SHALL NOT CONTAIN INJURIOUS AMOUNTS OF OIL, ACID, ALKALI, ORGANIC MATTER, OR OTHER DELETERIOUS SUBSTANCES, EXCEPT AS SPECIFICALLY APPROVED BY THE ENGINEER.

QUALITY CONTROL: CONCRETE, WHEN PLACED, SHALL BE OF A PLASTIC CONSISTENCY SUCH THAT IT CAN BE READILY WORKED INTO ALL PARTS OF THE FORMS AND AROUND EMBEDDED ITEMS WITHOUT SEGREGATION OF MATERIALS OR ACCUMULATION OF FREE WATER ON THE SURFACE. EXCEPT AS MAY BE SPECIFIED FOR SPECIAL FINISHES, SLUMP AS MEASURED IN ACCORDANCE WITH ASTM C143, LATEST, SHALL BE AS FOLLOWS:
4000 PSI: NOT LESS THAN 1-1/2" AND NOT MORE THAN 3-1/2".
3000 PSI: NOT LESS THAN 2" AND NOT MORE THAN 5".

CONCRETE JOINTING: CONCRETE JOINTING AND JOINT LAYOUT SHALL BE IN ACCORDANCE WITH ACI 330 UNLESS OTHERWISE SHOWN BY DESIGN DETAIL.
CONCRETE JOINT MATERIAL: NOMAFLEX SEMI-RIGID CLOSED CELL POLYPROPYLENE FOAM AS MANUFACTURED BY NOMACO, INC., 501, INNOVATIVE WAY, ZEBULON, NC 27597 877-291-1157. www.nomaco.com OR APPROVED OTHER.

2. REINFORCEMENT:
REINFORCING STEEL: ASTM A615, GRADE 60
WELDED WIRE FABRIC: ASTM A185
UNLESS OTHERWISE NOTED ON DESIGN PLANS, MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS:
FOOTINGS: 3"
COLUMNS AND PEDESTALS: 2"
SLABS ON GRADE: 2" FROM TOP
ALL REINFORCEMENT SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND ACI 315 DURING PLACING OF CONCRETE.
UNLESS OTHERWISE NOTED, SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE AS FOLLOWS:
WELDED WIRE FABRIC: WIRE SPACING PLUS 6"
REINFORCING BARS: 48 BAR DIAMETERS
ALL HOOKS IN REINFORCING BARS SHALL BE PER ACI STANDARDS, UNLESS OTHERWISE NOTED.
DOWELS WHERE INDICATED SHALL BE PLACED AND SECURED PRIOR TO CONCRETE PLACEMENT.

3. FOUNDATIONS:
IF FOOTING ELEVATIONS INDICATED ON DESIGN PLANS OCCUR IN A DISTURBED, UNSTABLE, OR UNSUITABLE SOIL, THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE NOTIFIED.

4. CONCRETE MASONRY: (DESIGN PER CURRENT EDITION ACI 530)
COMPRESSIVE STRENGTH: F'M=1500 PSI

MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY
STRUCTURES"–ACI 530.1/ASCE 6 (LATEST EDITION) EXCEPT AS MODIFIED BY REQUIREMENTS OF THE CONTRACT DOCUMENTS.

HOLLOW, LOAD-BEARING CONCRETE MASONRY UNITS: ASTM C90, TYPE II HOLLOW CONCRETE MASONRY UNITS.
AGGREGATE FOR MASONRY MORTAR: ASTM C144.
SOLID LOAD-BEARING CONCRETE MASONRY UNITS: ASTM C145.
MORTAR FOR UNIT MASONRY: ASTM C270.
GROUT FOR MASONRY: ASTM C476.
INSPECTION: IN ACCORDANCE WITH ACI 530-99 QUALITY ASSURANCE LEVEL 2.
SUBMITTALS: MATERIAL CERTIFICATIONS, PRODUCT DATA.
EXECUTION:
–ALL CUTTING OF MASONRY UNITS SHALL BE DONE WITH MOTOR DRIVEN SAW EQUIPMENT TO PROVIDE CLEAN, SHARP, UNCHIPPED EDGES.
–INSTALL DOVETAIL OR CORRUGATED WALL TIES AS NECESSARY TO SECURE LIMESTONE FACE VENEER.

5. SUPPLEMENTARY NOTES: PROVIDE ALL TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. THE STRUCTURE SHOULD NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED.

HALFF OR ANY OF ITS EMPLOYEES SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES OR SEQUENCES FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, OR ANY OTHER PERSONS PERFORMING THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

EMBEDMENT FOR EXPANSION BOLTS SHALL BE 3-1/4" MINIMUM FOR 3/4" BOLTS IN CONCRETE, 5-1/4" IN GROUTED MASONRY. HILTI KWIK BOLT II OR EQUAL.

EPOXY GROUT SHALL BE POWER FAST CARTRIDGE SYSTEM BY RAWL, HY150 CARTRIDGE SYSTEM (RE 500 IF HOLE IS CORED INSTEAD OF DRILLED) BY HILTI OR APPROVED EQUAL, UON. EMBEDMENT SHALL BE 12 BAR DIAMETER MINIMUM, UON. HOLES SHALL BE 1/4" LARGER THAN REBAR SIZE AND 1/8" LARGER THAN THREADED ROD SIZE. HOLE SHALL BE BRUSHED OUT WITH BOTTLE BRUSH AND THEN BLOWN OUT WITH AIR USING A COMPRESSOR WITH FUNCTIONAL OIL TRAP. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.

6. ALUMINUM FABRICATIONS AND MATERIALS:
ROUND TUBE: GRADE 6061-T6 (MIN. WALL 1/8")
ALUMINUM PIPE: GRADE 6061-T6
RECTANGULAR AND SQUARE TUBE: GRADE 6063-T52 (MIN. WALL 1/8")
RECTANGULAR BAR / STRAP: GRADE 6063-T52
SQUARE BAR: GRADE 6063-T52
ROUND ROD: GRADE 6063-T52
STRUCTURAL ANGLE AND CHANNEL: GRADE 6061-T6
ARCHITECTURAL ANGLE: GRADE 6063-T5
ARCHITECTURAL CHANNEL: GRADE 6063-T5
ALUMINUM SHEET AND PLATE: 6061-T6

7. ARCHITECTURAL CAST STONE: (WALL CAPS AND COPINGS)
ALL ARCHITECTURAL PRECAST MATERIALS SHALL BE MIN. 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS USING 6"x 12" CYLINDERS PER ASTM C 39-86. PRECAST CONCRETE MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C 1364 AND SHALL POSSESS UNIFORM COLOR COMPOSITION THROUGHOUT THE MATERIAL.

8. STUCCO OVER CONCRETE MASONRY: STUCCO APPLICATION SHALL BE IN ACCORDANCE WITH THE STUCCO MANUFACTURERS ASSOCIATION (SMA) GUIDE SPECIFICATION FOR 2-COAT PORTLAND CEMENT PLASTER APPLIED TO CONCRETE MASONRY WALLS. CEMENT PLASTER SHALL BE IN ACCORDANCE WITH ASTM C926 WITH EXTERIOR BONDING AGENT IN ACCORDANCE WITH ASTM C932. STUCCO INSTALLATION SHALL BE 1/2" TO 5/8" THICKNESS.
FINISHED SURFACE TEXTURE: SMOOTH SAND FINISH. STUCCO PAINT: FLAT ACRYLIC LATEX WITH PRIMERS AS NECESSARY. SUBMITTALS: COLOR SAMPLES AND PRODUCT DATA FOR APPROVAL PRIOR TO BEGINNING THE WORK PROCESS. ANY CONDITIONS THAT MAY CAUSE HARM OR INHIBIT STUCCO APPLICATION AND FINISH SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING THE WORK PROCESS.

halff
2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL
DAVID W. HUTCHESON LICENSE No 38670 STATE OF FLORIDA PROFESSIONAL ENGINEER
David W Hutcheson
Digitally signed by David W Hutcheson
DN: cn=David W Hutcheson, o=US, ou=Halff, email=DHUTCHESON@HALFF.COM
Date: 2024.11.25 09:48:54 -05'00'
ENG DAVID W. HUTCHESON, PE. 38670

PROJECT TITLE
JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

Call 811 before you dig.

PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JP
DRAWN	RMT
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REVIEWED	DWH

SHEET TITLE
CONSTRUCTION DETAILS

C11.3

SHEET 22 OF 32

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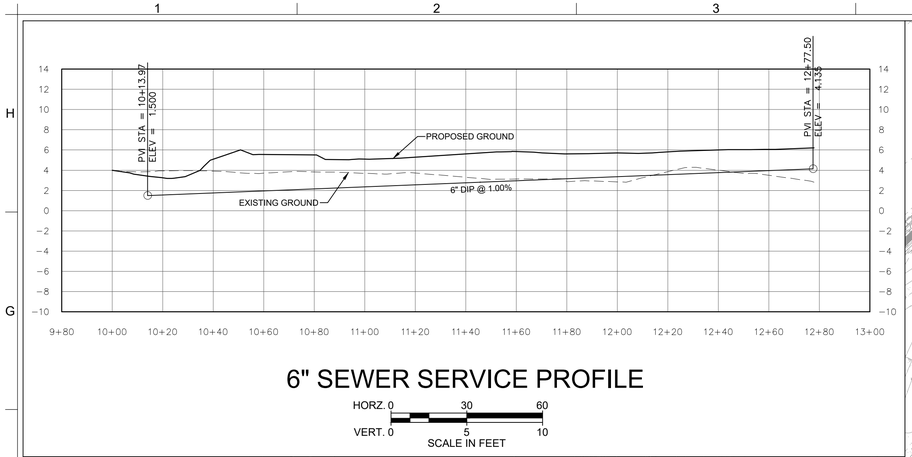

6" SEWER SERVICE PROFILE

HORZ. 0 30 60
VERT. 0 5 10
SCALE IN FEET

NORTH

0 30 60
SCALE IN FEET

6" C.O.
INV. 3.74

10.0'
TYP

100 LF OF 6"
PVC SEWER
SERVICE AT 1.00%

200 LF 1 1/2" PVC
WATER SERVICE

6" C.O.
INV. 2.74

100 LF OF 6"
PVC SEWER
SERVICE AT 1.00%

6" C.O.
INV. 1.74

PROPOSED
FIRE HYDRANT

44 LF OF 6" PVC
SEWER SERVICE AT
1.00%

11 LF 6" PVC
WATER MAIN

6"TEE WITH
1 1/2"
REDUCER

CONNECT TO EXISTING
SANITARY SEWER MANHOLE AND
CHANNELIZE THE CONNECTION AS
NEEDED
INV. 1.30

EXISTING
8" VCP

EXISTING PVC
FORCE MAIN

1 1/2" WATER
METER AND BACK
FLOW PREVENTOR

6"BACK FLOW
PREVENTOR

50 LF 6" PVC
WATER MAIN

EXISTING SANITARY
SEWER MANHOLE
TOP: 3.89
NW INV.: 1.29
SE INV.: 1.19

EXISTING SANITARY
SEWER MANHOLE
TOP: 4.42
NW INV.: 1.29
SE INV.: 1.19

CUT IN 6"
GATE VALVE
TEE AND BOX

BEACH DRIVE
100' PUBLIC R/W

(REFERENCE BEARING)
N26°59'27"W 804.46' (M)
N27°53'23"W 844.08' (D)

BIRD HOUSE

1 2 3 4

halff
2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

DAVID W. HUTCHESON
LICENSE
No. 38670
STATE OF FLORIDA
PROFESSIONAL ENGINEER

David W Hutcheson
Digitally signed by David W Hutcheson
DN: cn=David W Hutcheson, c=US, o=Halff, email=DHUTCHESON@HALFF.COM
Date: 2024.11.25 09:48:17 -05'00'

ENG DAVID W. HUTCHESON, PE. 38670

PROJECT TITLE

JOE'S BAYOU RECREATION
AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

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CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

UTILITY PLAN

C12

SHEET 23 OF 32

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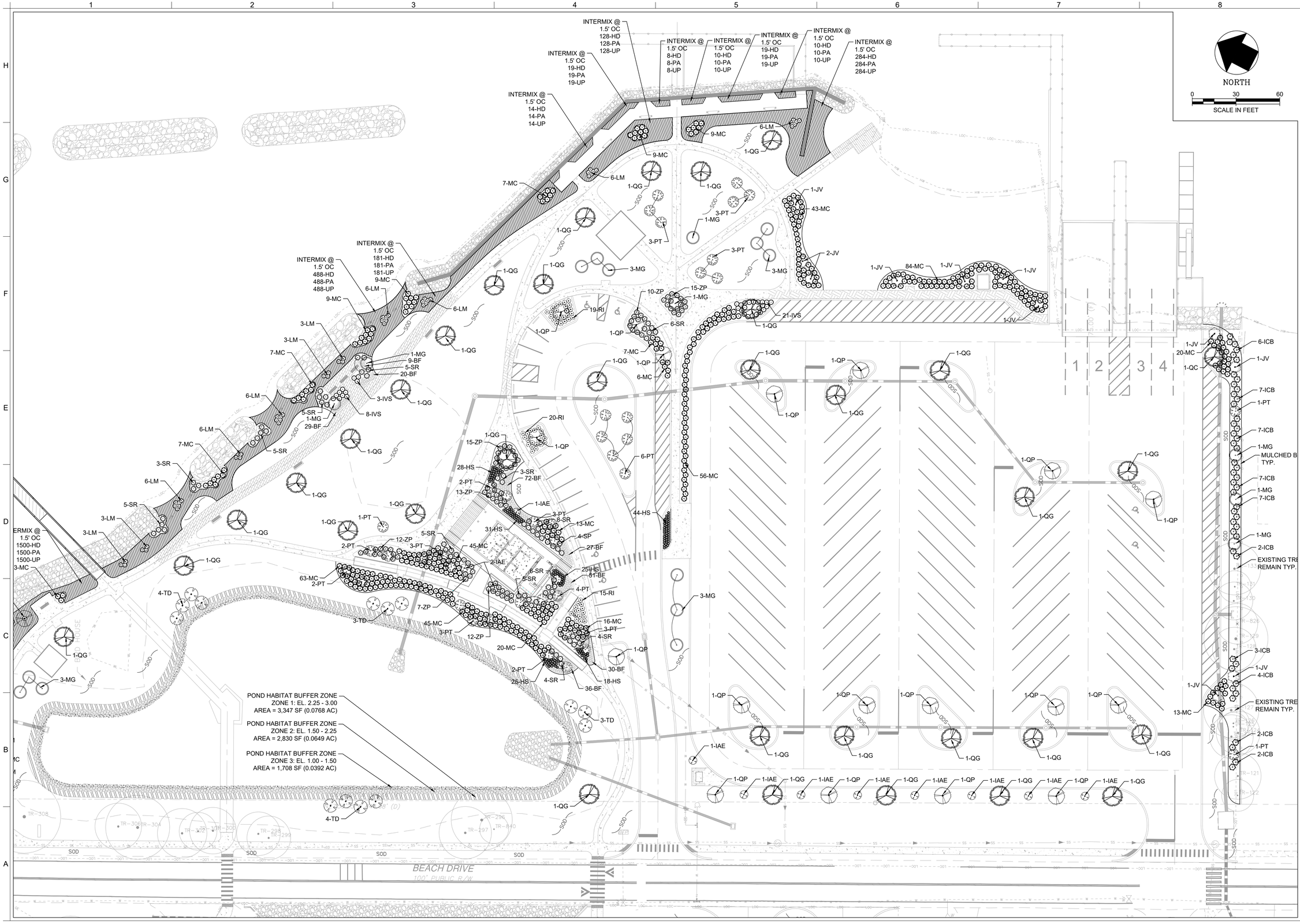

NORTH

0 30 60

SCALE IN FEET

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TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

Jordan P Limburg

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ENG

PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

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REVIEWED	DWH

SHEET TITLE

LANDSCAPE PLAN SOUTHERN

L1

SHEET 24 OF 32

RYAN TRUBIA, 11/20/2024 8:30:39 AM, A:\40000s\40190\305\C4D\Sheets\TL\140190.003_Layout_90%.dwg

POND HABITAT BUFFER ZONE
ZONE 1: EL. 2.25 - 3.00
AREA = 3,347 SF (0.0768 AC)

POND HABITAT BUFFER ZONE
ZONE 2: EL. 1.50 - 2.25
AREA = 2,830 SF (0.0649 AC)

POND HABITAT BUFFER ZONE
ZONE 3: EL. 1.00 - 1.50
AREA = 1,708 SF (0.0392 AC)

INTERMIX @
1.5' OC
1500-HD
1500-PA
1500-UP

MULCHED BED UNDER
EXISTING TREES

BEACH DRIVE
100' PUBLIC R/W

NORTH
0 30 60
SCALE IN FEET

halff
2255 KILLEARN CENTER BLVD., SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

Jordan P Limburg ENG

Digitally signed by Jordan P Limburg
Date: 2024.11.25 11:19:00 -05'00'

JOE'S BAYOU RECREATION
AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PROJECT TITLE

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PROJECT NO	40190-003
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SHEET TITLE

LANDSCAPE PLAN
WESTERN

L2

SHEET 25 OF 32

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LANDSCAPE PLAN SUMMARY – JOE'S BAYOU

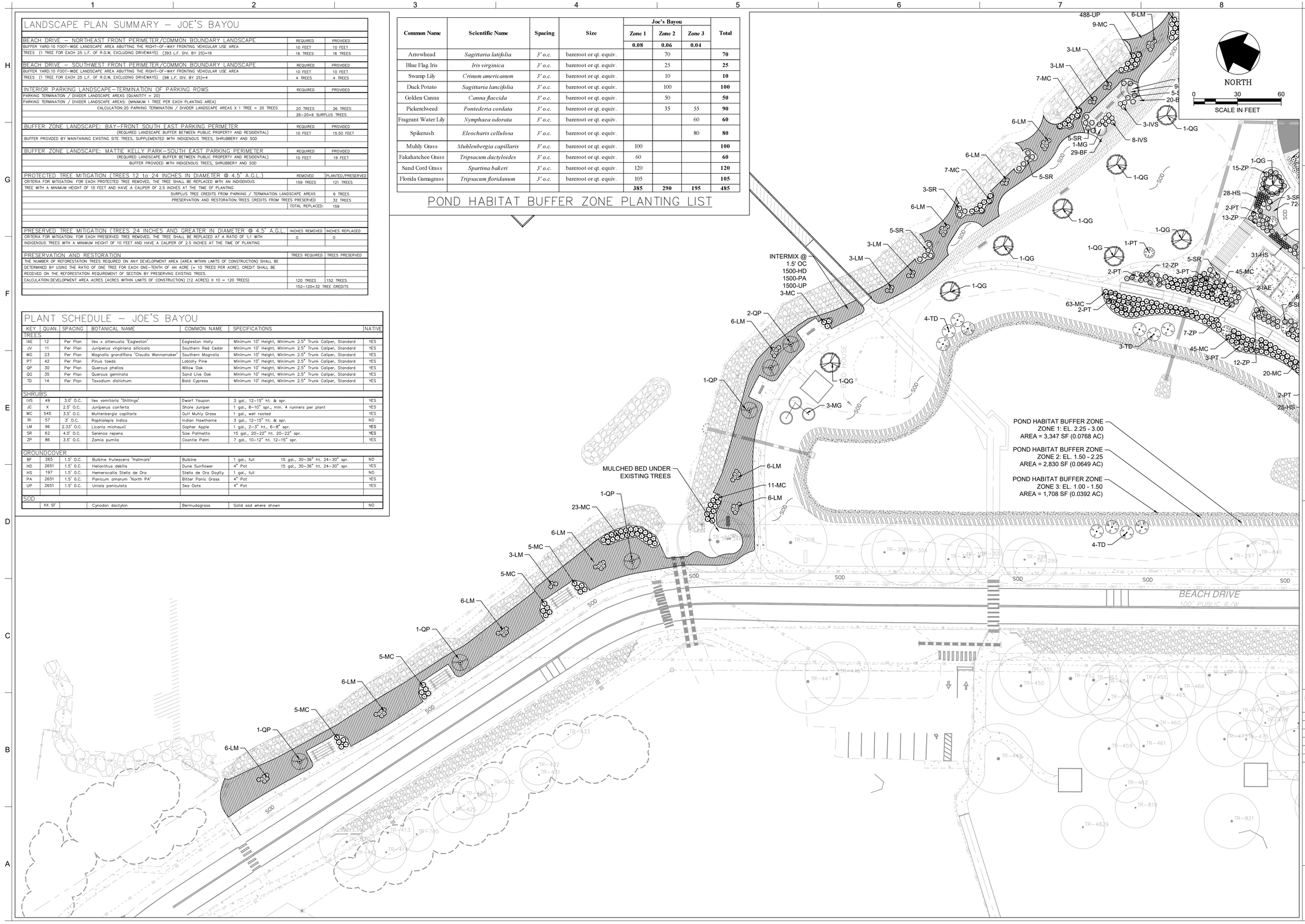
	REQUIRED	PROVIDED
BEACH DRIVE – NORTHEAST FRONT PERIMETER/COMMON BOUNDARY LANDSCAPE		
BUFFER YARD: 10 FOOT-WIDE LANDSCAPE AREA ABUTTING THE RIGHT-OF-WAY FRONTING VEHICULAR USE AREA	10 FEET	10 FEET
TREES (1 TREE FOR EACH 25 L.F. OF R.O.W, EXCLUDING DRIVEWAYS) (393 L.F. DIV. BY 25)=16	16 TREES	16 TREES
BEACH DRIVE – SOUTHWEST FRONT PERIMETER/COMMON BOUNDARY LANDSCAPE	REQUIRED	PROVIDED
BUFFER YARD: 10 FOOT-WIDE LANDSCAPE AREA ABUTTING THE RIGHT-OF-WAY FRONTING VEHICULAR USE AREA	10 FEET	10 FEET
TREES (1 TREE FOR EACH 25 L.F. OF R.O.W, EXCLUDING DRIVEWAYS) (98 L.F. DIV. BY 25)=4	4 TREES	4 TREES
INTERIOR PARKING LANDSCAPE–TERMINATION OF PARKING ROWS	REQUIRED	PROVIDED
PARKING TERMINATION / DIVIDER LANDSCAPE AREAS (QUANTITY = 20)		
PARKING TERMINATION / DIVIDER LANDSCAPE AREAS: (MINIMUM 1 TREE PER EACH PLANTING AREA)		
CALCULATION: 20 PARKING TERMINATION / DIVIDER LANDSCAPE AREAS X 1 TREE = 20 TREES	20 TREES	26 TREES
	26–20=6 SURPLUS TREES	
BUFFER ZONE LANDSCAPE: BAY–FRONT SOUTH EAST PARKING PERIMETER	REQUIRED	PROVIDED
(REQUIRED LANDSCAPE BUFFER BETWEEN PUBLIC PROPERTY AND RESIDENTIAL)	10 FEET	15.50 FEET
BUFFER PROVIDED BY MAINTAINING EXISTING SITE TREES, SUPPLEMENTED WITH INDIGENOUS TREES, SHRUBBERY AND SOD		
BUFFER ZONE LANDSCAPE: MATTIE KELLY PARK–SOUTH EAST PARKING PERIMETER	REQUIRED	PROVIDED
(REQUIRED LANDSCAPE BUFFER BETWEEN PUBLIC PROPERTY AND RESIDENTIAL)	10 FEET	19 FEET
BUFFER PROVIDED WITH INDIGENOUS TREES, SHRUBBERY AND SOD		
PROTECTED TREE MITIGATION (TREES 12 to 24 INCHES IN DIAMETER @ 4.5' A.G.L.)	REMOVED	PLANTED/PRESERVED
CRITERIA FOR MITIGATION: FOR EACH PROTECTED TREE REMOVED, THE TREE SHALL BE REPLACED WITH AN INDIGENOUS	159 TREES	121 TREES
TREE WITH A MINIMUM HEIGHT OF 10 FEET AND HAVE A CALIPER OF 2.5 INCHES AT THE TIME OF PLANTING		
SURPLUS TREE CREDITS FROM PARKING / TERMINATION LANDSCAPE AREAS		6 TREES
PRESERVATION AND RESTORATION: TREES CREDITS FROM TREES PRESERVED		32 TREES
TOTAL REPLACED:		159
PRESERVED TREE MITIGATION (TREES 24 INCHES AND GREATER IN DIAMETER @ 4.5' A.G.L.	INCHES REMOVED	INCHES REPLACED
CRITERIA FOR MITIGATION: FOR EACH PRESERVED TREE REMOVED, THE TREE SHALL BE REPLACED AT A RATIO OF 1:1 WITH	0	0
INDIGENOUS TREES WITH A MINIMUM HEIGHT OF 10 FEET AND HAVE A CALIPER OF 2.5 INCHES AT THE TIME OF PLANTING		
PRESERVATION AND RESTORATION	TREES REQUIRED	TREES PRESERVED
THE NUMBER OF REFORESTATION TREES REQUIRED ON ANY DEVELOPMENT AREA (AREA WITHIN LIMITS OF CONSTRUCTION) SHALL BE		
DETERMINED BY USING THE RATIO OF ONE TREE FOR EACH ONE–TENTH OF AN ACRE (= 10 TREES PER ACRE). CREDIT SHALL BE		
RECEIVED ON THE REFORESTATION REQUIREMENT OF SECTION BY PRESERVING EXISTING TREES.		
CALCULATION: DEVELOPMENT AREA ACRES (ACRES WITHIN LIMITS OF CONSTRUCTION) (12 ACRES) X 10 = 120 TREES)	120 TREES	152 TREES
	152–120=32 TREE CREDITS	

PLANT SCHEDULE – JOE'S BAYOU

KEY	QUAN.	SPACING	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS	NATIVE
TREES						
IAE	12	Per Plan	Ilex x attenuata 'Eagleston'	Eagleston Holly	Minimum 10' Height, Minimum 2.5" Trunk Caliper, Standard	YES
JV	11	Per Plan	Juniperus virginiana silicicola	Southern Red Cedar	Minimum 10' Height, Minimum 2.5" Trunk Caliper, Standard	YES
MG	23	Per Plan	Magnolia grandiflora 'Claudia Wannamaker'	Southern Magnolia	Minimum 10' Height, Minimum 2.5" Trunk Caliper, Standard	YES
PT	42	Per Plan	Pinus taeda	Loblolly Pine	Minimum 10' Height, Minimum 2.5" Trunk Caliper, Standard	YES
QP	30	Per Plan	Quercus phellos	Willow Oak	Minimum 10' Height, Minimum 2.5" Trunk Caliper, Standard	YES
QG	35	Per Plan	Quercus geminata	Sand Live Oak	Minimum 10' Height, Minimum 2.5" Trunk Caliper, Standard	YES
TD	14	Per Plan	Taxodium distichum	Bald Cypress	Minimum 10' Height, Minimum 2.5" Trunk Caliper, Standard	YES
SHRUBS						
IVS	49	3.0' O.C.	Ilex vomitoria 'Shillings'	Dwarf Youpon	3 gal., 12–15" ht. & spr.	YES
JC	X	2.5' O.C.	Juniperus conferta	Shore Juniper	1 gal., 8–10" spr., min. 4 runners per plant	YES
MC	545	3.5' O.C.	Muhlenbergia capillaris	Gulf Muhly Grass	1 gal., well rooted	YES
RI	57	3' O.C.	Raphiolepis indica	Indian Hawthorne	3 gal., 12–15" ht. & spr.	NO
LM	96	2.33' O.C.	Licania michauxii	Gopher Apple	1 gal., 2–3" ht., 6–8" spr.	YES
SR	62	4.0' O.C.	Serenoa repens	Saw Palmetto	15 gal., 20–22" ht. 20–22" spr.	YES
ZP	86	3.5' O.C.	Zamia pumila	Coontie Palm	7 gal., 10–12" ht. 12–15" spr.	YES
GROUNDCOVER						
BF	265	1.5" O.C.	Bulbine frutescens 'Hallmark'	Bulbine	1 gal., full 15 gal., 30–36" ht. 24–30" spr.	NO
HD	2651	1.5" O.C.	Helianthus debilis	Dune Sunflower	4" Pot 15 gal., 30–36" ht. 24–30" spr.	YES
HS	197	1.5" O.C.	Hemerocallis Stella de Ora	Stella de Ora Daylily	1 gal., full	NO
PA	2651	1.5" O.C.	Panicum amarum 'North PA'	Bitter Panic Grass	4" Pot	YES
UP	2651	1.5" O.C.	Uniola paniculata	Sea Oats	4" Pot	YES
SOD						
	XX SF		Cynodon dactylon	Bermudagrass	Solid sod where shown	NO

Common Name	Scientific Name	Spacing	Size	Joe's Bayou Zone 1	Zone 2	Zone 3	Total
				0.08	0.06	0.04	
Arrowhead	*Sagittaria latifolia*	3' o.c.	bareroot or qt. equiv.		70		**70**
Blue Flag Iris	*Iris virginica*	3' o.c.	bareroot or qt. equiv.		25		**25**
Swamp Lily	*Crinum americanum*	3' o.c.	bareroot or qt. equiv.		10		**10**
Duck Potato	*Sagittaria lancifolia*	3' o.c.	bareroot or qt. equiv.		100		**100**
Golden Canna	*Canna flaccida*	3' o.c.	bareroot or qt. equiv.		50		**50**
Pickerelweed	*Pontederia cordata*	3' o.c.	bareroot or qt. equiv.		35	55	**90**
Fragrant Water Lily	*Nymphaea odorata*	3' o.c.	bareroot or qt. equiv.			60	**60**
Spikerush	*Eleocharis cellulosa*	3' o.c.	bareroot or qt. equiv.			80	**80**
Muhly Grass	*Muhlenbergia capillaris*	3' o.c.	bareroot or qt. equiv.	100			**100**
Fakahatchee Grass	*Tripsacum dactyloides*	3' o.c.	bareroot or qt. equiv.	60			**60**
Sand Cord Grass	*Spartina bakeri*	3' o.c.	bareroot or qt. equiv.	120			**120**
Florida Gamagrass	*Tripsacum floridanum*	3' o.c.	bareroot or qt. equiv.	105			**105**
				385	**290**	**195**	**485**

POND HABITAT BUFFER ZONE PLANTING LIST



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2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

Jordan P Limburg ENG

Digitally signed by Jordan P Limburg
Date: 2024.11.25 11:19:40 -05'00'

PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

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REVIEWED	DWH

SHEET TITLE

LANDSCAPE PLAN NORTHERN

L3

SHEET 26 OF 32

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NORTH

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SCALE IN FEET

halff

2255 KILLEARN CENTER BLVD., SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

Jordan P Limburg ###

Digitally signed by Jordan P Limburg
Date: 2024.11.25 11:23:05 -05'00'

PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

NO	ZONE	REVISIONS / SUBMISSIONS	DATE
#	#	#	#
#	#	#	#
#	#	#	#
#	#	#	#
#	#	#	#

Call 811 before you dig.

PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JPL
DRAWN	KH/JPL
CHECKED	JPL
REVIEWED	JPL

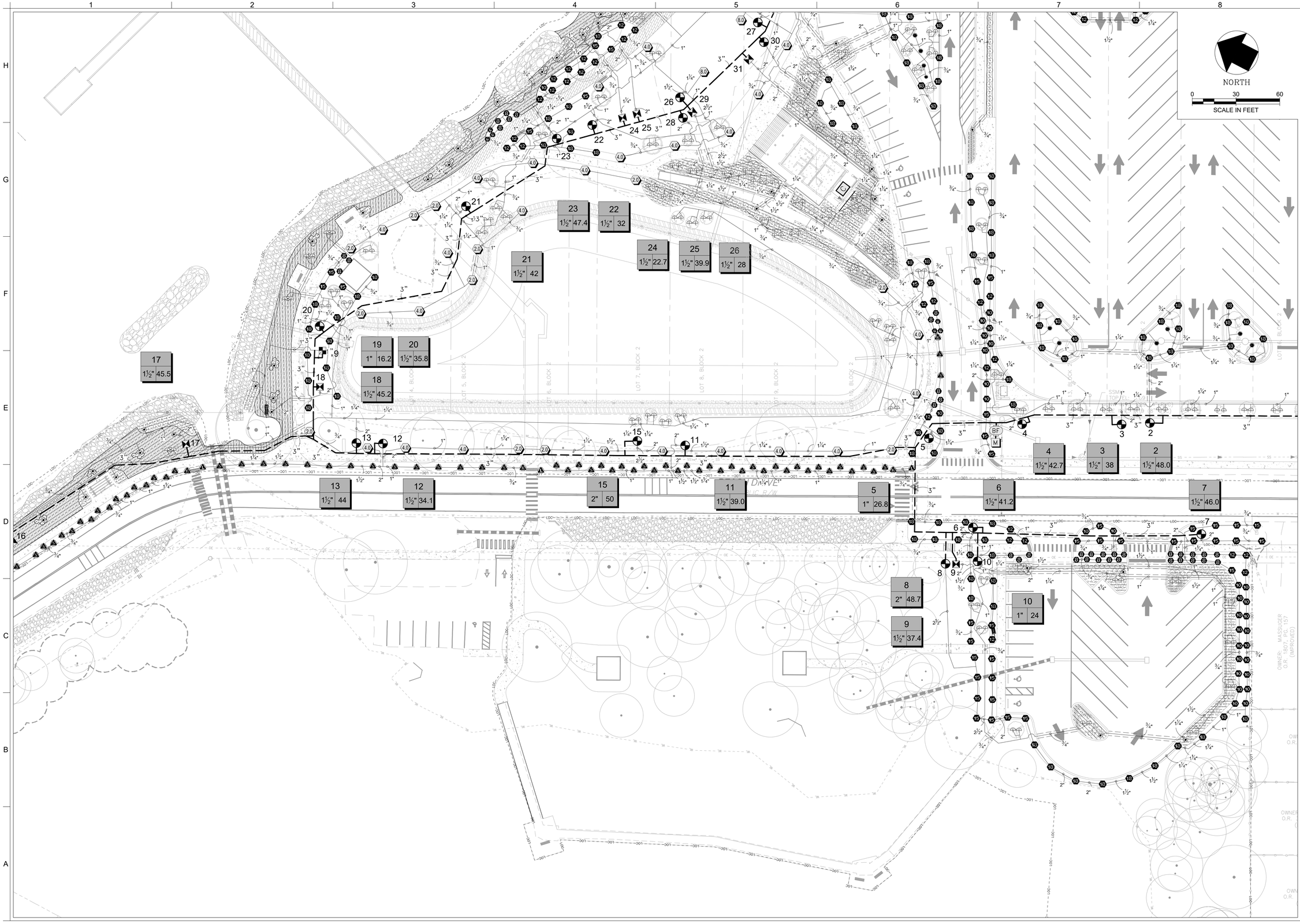
SHEET TITLE

IRRIGATION PLAN SOUTHERN

L4

SHEET 27 OF 32

JORDAN P. LIMBURG, 8/18/2024 11:49:57 AM, A:\40000s\40190\00\5\CADD\LA\Sheets\dwt:2024 07.01 IRR.dwg



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2255 KILLEARN CENTER BLVD., SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

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Jordan P Limburg

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PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

NO	ZONE	REVISIONS / SUBMISSIONS	DATE
#	#	#	#
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PROJECT NO	40190-003
DATE	08-02-2024
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REVIEWED	JPL

SHEET TITLE

IRRIGATION PLAN
WESTERN

L5

SHEET 28 OF 32

JORDAN P. LIMBURG, 9/18/2024 11:51:52 AM, A:\40000s\40190\003\CADD\LAISheets.dwt 2024 07.01 IRR.dwg

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TEL. (850) 224-4400

SEAL

Jordan P Limburg ###

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Date: 2024.11.25 11:25:48 -05'00'

PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

NO	ZONE	REVISIONS / SUBMISSIONS	DATE
#	#	#	#
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#	#	#	#

Call 811 before you dig.

PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JPL
DRAWN	KH/JPL
CHECKED	JPL
REVIEWED	JPL

SHEET TITLE

IRRIGATION PLAN NORTHERN

L6

SHEET 29 OF 32

JORDAN P. LIMBURG, 9/18/2024 11:52:58 AM, A:\40000s\40190\003\CADD\LAS\sheets.lax\2024.07.01 IRR.dwg

GENERAL NOTES:

1. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR 100% COVERAGE FOR ALL PLANTING BEDS, PLANTERS, AND SODDED AREAS AS SHOWN. IMMEDIATELY BRING DISCREPANCIES BETWEEN PLAN AND EXISTING AREAS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT-ENGINEER.
2. THE IRRIGATION SLEEVING IS TO BE PROVIDED BY THE IRRIGATION CONTRACTOR UNLESS OTHERWISE DIRECTED.
3. THE IRRIGATION CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THERE MAY BE OTHER ACTIVE UTILITIES AND SERVICES IN THE AREA AND HE WILL BE HELD RESPONSIBLE FOR LOCATING THESE TO AVOID DAMAGE TO THEM. THE IRRIGATION CONTRACTOR WILL BE LIABLE FOR ANY DAMAGE FOR WHICH HE IS DIRECTLY RESPONSIBLE
4. THE IRRIGATION PLAN IS SCHEMATIC IN NATURE AND DOES NOT REFLECT ALL EXISTING FEATURES PARTICULAR TO THE SITE. AS SUCH, THE CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS IN THE PROPOSED IRRIGATION SYSTEM TO AVOID DAMAGE TO EXISTING STRUCTURES, PAVING, AND/OR UTILITIES.
5. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING TO ALL LOCAL CODES AND ORDINANCES RELEVANT TO THE WORK UNDER THIS CONTRACT.
6. ALL WORK ADJUSTMENTS AND INSPECTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT-ENGINEER.
7. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND LABOR TO FULLY EXECUTE AND GUARANTEE, AS REQUIRED, THE TOTAL WORK SHOWN ON THIS PLAN IN ACCORDANCE WITH THE SPECIFICATIONS AND INSTRUCTIONS OF THE LANDSCAPE ARCHITECT AND/OR OWNER.
8. THE IRRIGATION CONTRACTOR SHALL VERIFY ALL QUANTITIES TO ASSURE ADEQUATE INSTALLATION OF THE SYSTEM. HE SHALL ALSO PROVIDE TO THE OWNER A COMPLETE AND DETAILED SET OF "AS-BUILT" DRAWINGS AT THE COMPLETION OF THE WORK.
9. THE LOCATION OF THE AUTOMATIC CONTROLLER IS GENERALLY INDICATED ON THE PLAN, AND WILL BE SPECIFICALLY LOCATED BY OWNER.
10. THE LOCATIONS AS INDICATED ARE SCHEMATIC. THE IRRIGATION CONTRACTOR SHALL LOCATE ALL HEADS AND LINES IN SUCH A WAY AS TO CAUSE THE LEAST CONFLICT WITH THE EXISTING LOCATIONS OF PLANT MATERIAL AND OTHER SITE AMENITIES.
11. THE IRRIGATION CONTRACTOR SHALL ADJUST THE RADIUS AND ARC OF EACH HEAD TO MINIMIZE OVERTHROW AND TO ELIMINATE DRY SPOTS. HEAD TYPES TO MATCH LANDSCAPE LAYOUT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. OVERTHROW ONTO ADJACENT SIDEWALKS SHALL BE HELD TO AN ABSOLUTE MINIMUM WHILE STILL PROVIDING 100% COVERAGE OF LANDSCAPED AREAS, AS REQUIRED. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF ADDITIONAL HEADS NEEDED TO COVER DRY SPOTS OR SLIGHT VARIATIONS FROM THE PLAN. THE LOCATION AND ARRANGEMENT OF THESE HEADS SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
12. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ADEQUATE PRESSURE AND GALLONAGE FROM WATER SOURCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONNECTIONS TO EXISTING WATER SUPPLY AS GENERALLY SHOWN ON IRRIGATION PLANS.

DRIPLINE NOTES:

1. WHEN DRIP OR DRIPLINE IRRIGATION IS INCORPORATED INTO THE IRRIGATION PLAN, THE CONTRACTOR WILL VERIFY THE SOIL TYPE. THE SOIL TYPE HAS A LOT TO DO WITH THE LATERAL AND EMITTER SPACING WITH DRIPLINE IRRIGATION. TYPICALLY ON THE PLAN, SINCE WE ARE IN THE STATE OF FLORIDA, THE ASSUMPTION IS THAT THE SOIL IS A SAND, THAT REQUIRES THE CLOSEST LATERAL AND EMITTER SPACING (12"x12"). IF THE SOIL TURNS OUT TO BE DIFFERENT AT THE SITE LOCATION, SUCH AS, A LOAM OR CLAY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO SPACE LATERALS AND EMITTERS ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
2. CONTRACTOR TO FOLLOW ALL MANUFACTURER'S SPECIFICATIONS WHEN INSTALLING DRIP OR DRIPLINE IRRIGATION.

CRITICAL ANALYSIS

Generated:	2024-07-11 09:44
P.O.C. NUMBER: 01	
Water Source Information:	
FLOW AVAILABLE	
Water Meter Size:	1-1/2"
Flow Available	75 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	75 PSI ((DESIGN FLOW; VERY MINIMUM)
Elevation Change:	5.00 ft
Service Line Size:	6"
Length of Service Line:	15 ft
Pressure Available:	73 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	50 GPM
Flow Available at POC:	75 GPM
Residual Flow Available:	25 GPM
Critical Station:	15
Design Pressure:	45 PSI
Friction Loss:	3.98 PSI
Fittings Loss:	0.4 PSI
Elevation Loss:	0 PSI
Loss through Valve:	4.8 PSI
Pressure Req. at Critical Station:	54.2 PSI
Loss for Fittings:	0.07 PSI
Loss for Main Line:	0.71 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	11.5 PSI
Loss for Water Meter:	4.9 PSI
Critical Station Pressure at POC:	71.4 PSI
Pressure Available:	73 PSI
Residual Pressure Available:	1.64 PSI

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
1	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	32.74	36.4	50.3	1.77 in/h
2	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	48.04	36.1	53.2	1.73 in/h
3	Rain Bird PESB-PRS-D	1-1/2"	Bubbler	38	39.5	54.1	2.71 in/h
4	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	42.73	36.4	51.7	1.23 in/h
5	Rain Bird PESB-PRS-D	1"	Turf Spray	26.82	37.6	50.3	1.57 in/h
6	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	41.2	36.1	51.3	1.44 in/h
7	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	46.0	36.5	53.1	1.51 in/h
8	Rain Bird PESB-PRS-D	2"	Turf Spray	48.7	37.8	54.5	0.95 in/h
9	Rain Bird XCZ-150-LCS	1-1/2"	Area for Dripline	37.35	29.7	44.3	1.44 in/h
10	Rain Bird PESB-PRS-D	1"	Bubbler	24	36.7	49.1	2.78 in/h
11	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	38.98	36.4	51.3	2.4 in/h
12	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	34.14	36.5	50.7	1.94 in/h
13	Rain Bird PESB-PRS-D	1-1/2"	Bubbler	44	49.1	65.2	2.75 in/h
14	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	30.9	36.3	50.3	1.94 in/h
15	Rain Bird PESB-PRS-D	2"	Turf Rotor	50	54.2	71.4	0.59 in/h
16	Rain Bird XCZ-150-LCS	1-1/2"	Area for Dripline	37.88	24.6	40.1	1.44 in/h
17	Rain Bird XCZ-150-LCS	1-1/2"	Area for Dripline	45.47	33.4	50.2	1.44 in/h
18	Rain Bird XCZ-150-LCS	1-1/2"	Area for Dripline	45.17	33.3	49.8	1.44 in/h
19	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	16.17	37.8	49.9	1.44 in/h
20	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	35.78	35.0	49.7	1.1 in/h
21	Rain Bird PESB-PRS-D	1-1/2"	Turf Rotor	42	52.8	69.2	0.62 in/h
22	Rain Bird PESB-PRS-D	1-1/2"	Bubbler	32	36.6	51	2.77 in/h
23	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	47.35	36.0	54.0	1.32 in/h
24	Rain Bird XCZ-150-LCS	1-1/2"	Area for Dripline	22.65	19.5	32.3	1.45 in/h
25	Rain Bird XCZ-150-LCS	1-1/2"	Area for Dripline	39.95	25.8	42.1	1.44 in/h
26	Rain Bird PESB-PRS-D	1-1/2"	Turf Rotor	28	51.0	64.7	0.5 in/h
27	Rain Bird PESB-PRS-D	1-1/2"	Turf Rotor	32	50.7	65.5	0.5 in/h
28	Rain Bird PESB-PRS-D	1-1/2"	Bubbler	42	36.4	53.3	2.76 in/h
29	Rain Bird XCZ-150-LCS	1-1/2"	Area for Dripline	47.88	37.8	56.3	1.44 in/h
30	Rain Bird PESB-PRS-D	1-1/2"	Bubbler	30	36.3	50.4	2.75 in/h
31	Rain Bird XCZ-150-LCS	1-1/2"	Area for Dripline	48.47	41.2	60.2	1.44 in/h
32	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	47.61	36.3	55.2	1.42 in/h
33	Rain Bird XCZ-150-LCS	1-1/2"	Area for Dripline	45.71	35.7	54.4	1.44 in/h
34	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	35.82	36.5	52.3	1.16 in/h
35	Rain Bird XCZ-150-LCS	1-1/2"	Area for Dripline	21.27	17.1	29.9	1.45 in/h
36	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	35.69	36.4	52.4	1.15 in/h
37	Rain Bird PESB-PRS-D	1-1/2"	Bubbler	42	36.1	54.3	2.76 in/h
38	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	29.05	36.0	50.4	1.17 in/h
39	Rain Bird XCZ-150-LCS	1-1/2"	Area for Dripline	34.82	23.0	39.0	1.44 in/h
40	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	5.28	18.0	29.4	1.44 in/h
41	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	37.68	35.4	52.3	1.41 in/h
42	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	28.95	35.7	50.2	1.61 in/h
43	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	30.22	35.7	50.5	1.26 in/h
44	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	30.53	36.5	51.5	1.72 in/h
45	Rain Bird XCZ-150-LCS	1-1/2"	Area for Dripline	33.47	22.7	38.7	1.44 in/h
46	Rain Bird PESB-PRS-D	1-1/2"	Bubbler	44	43.4	63.6	2.75 in/h
47	Rain Bird PESB-PRS-D	1"	Turf Spray	20.59	35.9	48.5	1.42 in/h
48	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	32.21	36.4	51.0	2.16 in/h
49	Rain Bird XCZ-150-LCS	1-1/2"	Area for Dripline	49.44	39.4	57.9	1.44 in/h
50	Rain Bird PESB-PRS-D	1-1/2"	Turf Spray	29.7	35.0	48.4	1.46 in/h

WATERING SCHEDULE

NUMBER	MODEL	TYPE	PRECIP	SUN	MON	TUE	WED	THU	FRI	SAT	IN./WEEK	MIN./WEEK	GAL./WEEK	GAL./DAY
1	Rain Bird PESB-PRS-D	Turf Spray	1.77 in/h			26 min			26 min		1.5	51	1,670	835
2	Rain Bird PESB-PRS-D	Turf Spray	1.73 in/h			27 min			27 min		1.5	53	2,546	1,273
3	Rain Bird PESB-PRS-D	Bubbler	2.71 in/h			17 min			17 min		1.5	34	1,292	646
4	Rain Bird PESB-PRS-D	Turf Spray	1.23 in/h			37 min			37 min		1.5	73	3,120	1,560
5	Rain Bird PESB-PRS-D	Turf Spray	1.57 in/h			29 min			29 min		1.5	58	1,555	778
6	Rain Bird PESB-PRS-D	Turf Spray	1.44 in/h			32 min			32 min		1.5	63	2,596	1,298
7	Rain Bird PESB-PRS-D	Turf Spray	1.51 in/h			30 min			30 min		1.5	60	2,760	1,380
8	Rain Bird PESB-PRS-D	Turf Spray	0.95 in/h			48 min			48 min		1.5	95	4,627	2,313
9	Rain Bird XCZ-150-LCS	Area for Dripline	1.44 in/h	9 min	9 min	9 min	9 min	9 min	9 min	9 min	1.5	63	2,353	336
10	Rain Bird PESB-PRS-D	Bubbler	2.78 in/h			17 min			17 min		1.5	33	792	396
11	Rain Bird PESB-PRS-D	Turf Spray	2.4 in/h			19 min			19 min		1.5	38	1,481	741
12	Rain Bird PESB-PRS-D	Turf Spray	1.94 in/h			24 min			24 min		1.5	47	1,605	802
13	Rain Bird PESB-PRS-D	Bubbler	2.75 in/h			17 min			17 min		1.5	33	1,452	726
14	Rain Bird PESB-PRS-D	Turf Spray	1.94 in/h			24 min			24 min		1.5	47	1,452	726
15	Rain Bird PESB-PRS-D	Turf Rotor	0.59 in/h			76 min			76 min		1.5	152	7,600	3,800
16	Rain Bird XCZ-150-LCS	Area for Dripline	1.44 in/h	9 min	9 min	9 min	9 min	9 min	9 min	9 min	1.5	63	2,386	341
17	Rain Bird XCZ-150-LCS	Area for Dripline	1.44 in/h	9 min	9 min	9 min	9 min	9 min	9 min	9 min	1.5	63	2,864	409
18	Rain Bird XCZ-150-LCS	Area for Dripline	1.44 in/h	9 min	9 min	9 min	9 min	9 min	9 min	9 min	1.5	63	2,845	406
19	Rain Bird XCZ-100-PRB-COM	Area for Dripline	1.44 in/h	9 min	9 min	9 min	9 min	9 min	9 min	9 min	1.5	63	1,019	146
20	Rain Bird PESB-PRS-D	Turf Spray	1.1 in/h			41 min			41 min		1.5	82	2,934	1,467
21	Rain Bird PESB-PRS-D	Turf Rotor	0.62 in/h			74 min			74 min		1.5	147	6,174	3,087
22	Rain Bird PESB-PRS-D	Bubbler	2.77 in/h			17 min			17 min		1.5	33	1,056	528
23	Rain Bird PESB-PRS-D	Turf Spray	1.32 in/h			35 min			35 min		1.5	69	3,267	1,634
24	Rain Bird XCZ-150-LCS	Area for Dripline	1.45 in/h	9 min	9 min	9 min	9 min	9 min	9 min	9 min	1.5	63	1,427	204
25	Rain Bird XCZ-150-LCS	Area for Dripline	1.44 in/h	9 min	9 min	9 min	9 min	9 min	9 min	9 min	1.5	63	2,517	360
26	Rain Bird PESB-PRS-D	Turf Rotor	0.5 in/h			91 min			91 min		1.5	182	5,096	2,548
27	Rain Bird PESB-PRS-D	Turf Rotor	0.5 in/h			90 min			90 min		1.5	179	5,728	2,864
28	Rain Bird PESB-PRS-D	Bubbler	2.76 in/h			17 min			17 min		1.5	33	1,386	693
29	Rain Bird XCZ-150-LCS	Area for Dripline	1.44 in/h	9 min	9 min	9 min	9 min	9 min	9 min	9 min	1.5	63	3,016	431
30	Rain Bird PESB-PRS-D	Bubbler	2.75 in/h			17 min			17 min		1.5	33	990	495
31	Rain Bird XCZ-150-LCS	Area for Dripline	1.44 in/h	9 min	9 min	9 min	9 min	9 min	9 min	9 min	1.5	63	3,053	436
32	Rain Bird PESB-PRS-D	Turf Spray	1.42 in/h			32 min			32 min		1.5	64	3,047	1,523
33	Rain Bird XCZ-150-LCS	Area for Dripline	1.44 in/h	9 min	9 min	9 min	9 min	9 min	9 min	9 min	1.5	63	2,879	411
34	Rain Bird PESB-PRS-D	Turf Spray	1.16 in/h			39 min			39 min		1.5	78	2,794	1,397
35	Rain Bird XCZ-150-LCS	Area for Dripline	1.45 in/h	9 min	9 min	9 min	9 min	9 min	9 min	9 min	1.5	63	1,340	191
36	Rain Bird PESB-PRS-D	Turf Spray	1.15 in/h			40 min			40 min		1.5	79	2,820	1,410
37	Rain Bird PESB-PRS-D	Bubbler	2.76 in/h			17 min			17 min		1.5	33	1,386	693
38	Rain Bird PESB-PRS-D	Turf Spray	1.17 in/h			39 min			39 min		1.5	78	2,266	1,133
39	Rain Bird XCZ-150-LCS	Area for Dripline	1.44 in/h	9 min	9 min	9 min	9 min	9 min	9 min	9 min	1.5	63	2,193	313
40	Rain Bird XCZ-100-PRB-COM	Area for Dripline	1.44 in/h	9 min	9 min	9 min	9 min	9 min	9 min	9 min	1.5	63	333	47.5
41	Rain Bird PESB-PRS-D	Turf Spray	1.41 in/h			32 min			32 min		1.5	64	2,412	1,206
42	Rain Bird PESB-PRS-D	Turf Spray	1.61 in/h			29 min			29 min		1.5	57	1,650	825
43	Rain Bird PESB-PRS-D	Turf Spray	1.26 in/h			36 min			36 min		1.5	72	2,176	1,088
44	Rain Bird PESB-PRS-D	Turf Spray	1.72 in/h			27 min			27 min		1.5	53	1,618	809
45	Rain Bird XCZ-150-LCS	Area for Dripline	1.44 in/h	9 min	9 min	9 min	9 min	9 min	9 min	9 min	1.5	63	2,108	301
46	Rain Bird PESB-PRS-D	Bubbler	2.75 in/h			17 min			17 min		1.5	33	1,452	726
47	Rain Bird PESB-PRS-D	Turf Spray	1.42 in/h			32 min			32 min		1.5	64	1,318	659
48	Rain Bird PESB-PRS-D	Turf Spray	2.16 in/h			21 min			21 min		1.5	42	1,353	676
49	Rain Bird XCZ-150-LCS	Area for Dripline	1.44 in/h	9 min	9 min	9 min	9 min	9 min	9 min	9 min	1.5	63	3,115	445
50	Rain Bird PESB-PRS-D	Turf Spray	1.46 in/h			31 min			31 min		1.5	62	1,842	921

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
EST LCS RCS CST SST	Rain Bird 1806-PRS 15 Strip Series Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. Pressure Regulating.	30
Q T H F	Rain Bird 1806-PRS 8 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. Pressure Regulating.	30
Q T H F	Rain Bird 1806-PRS 10 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. Pressure Regulating.	30
Q T H TQ F	Rain Bird 1806-PRS 12 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. Pressure Regulating.	30
Q T H TQ F	Rain Bird 1806-PRS 15 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. Pressure Regulating.	30
4V 6V 18V	Rain Bird 1806-PRS ADJ Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. Pressure Regulating.	30
08HE-VAN 12HE-VAN 10HE-VAN 15HE-VAN	Rain Bird 1806-PRS ADJ Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. Pressure Regulating.	30
CST Q H F	Rain Bird 1806-5 Series Stream Stream Bubbler 6.0" popup.	30

SYMBOL	MANUFACTURER/MODEL	PSI	GPM	RADIUS
2.0	Hunter PGP-04-PRB 2.0	45	2	34'
4.0	Hunter PGP-04-PRB 4.0	45	4	40'
8.0	Hunter PGP-04-PRB 8.0	45	8	44'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Rain Bird XCZ-100-PRB-COM Wide Flow Drip Control Kit for Commercial Applications. 1" Ball Valve with 1" PESB Valve and 1" Pressure Regulating 40psi Quick-Check Basket Filter. 0.3gpm to 20gpm.
	Rain Bird XCZ-150-LCS High Flow Control Zone Kit, for Large Commercial Drip Zones. 1-1/2" PEB Globe Valve with single 1-1/2" Pressure Regulating 40psi Quick-Check Basket Filter. Flow range: 15-62 GPM.
	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6" (150mm) drip box.
	Area to Receive Dripline Rain Bird XFS-09-12 XFS Sub-Surface Pressure Compensating Dripline w/Copper Shield Technology. 0.9 GPH emitters at 12" O.C. Laterals spaced at 12" apart, with emitters offset for triangular pattern. UV Resistant. Specify XF insert fittings.

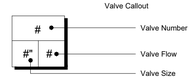
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Rain Bird PESB-PRS-D 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. With Pressure Regulating Module, and Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.
BF	Febco 825YD 3" Reduced Pressure Backflow Preventer
C	Hunter I2C-5400-M/ICC-SS 54 Station Outdoor Modular Controller. With four ICM-800 one ICM-2200 Modules. Stainless Steel Cabinet.
RS	Rain Bird RSD-BEx Rain Sensor, with metal latching bracket, extension wire.
M	Water Meter 1-1/2" (Design Flow is 50 GPM Minimum; Design Pressure is 75 PSI Minimum; If Can't Meet PSI, A Booster Pump will be Required)

Irrigation Lateral Line: PVC Class 200 SDR 21

Irrigation Mainline: PVC Class 200 SDR 21 (3")

Pipe Sleeve: PVC Schedule 40

Valve Callout



halff
2255 KILLEARN CENTER BLVD., SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

Jordan P Limburg ##J

Digitally signed by Jordan P Limburg
Date: 2024.11.25 11:26:11 -05'00'

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

NO	ZONE	REVISIONS / SUBMISSIONS	DATE
#	#	#	#

Call 811 before you dig.

PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JPL
DRAWN	KH/JPL
CHECKED	JPL
REVIEWED	JPL

SHEET TITLE

IRRIGATION SCHEDULES, NOTES, & SPECIFICATIONS

L7

SHEET 30 OF 32

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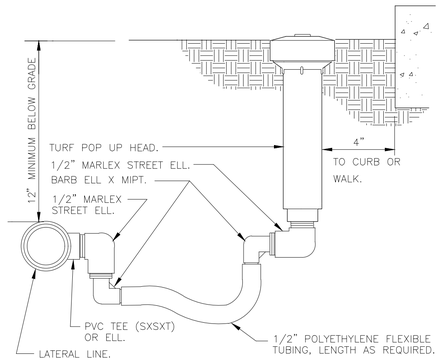
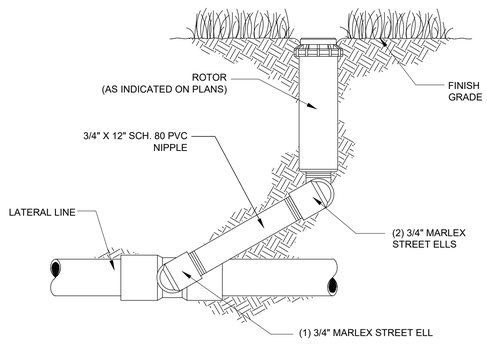


1 TURF SPRAY FLEX ASSEMBLY

3" = 1'-0"

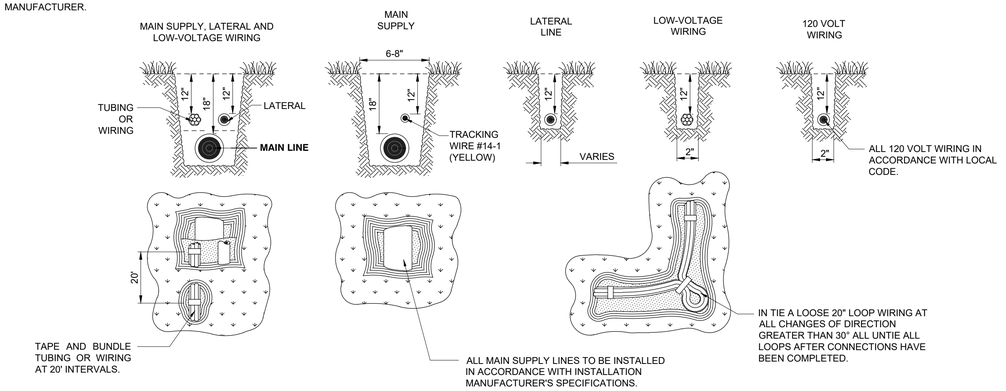


NOTE:
1. IRRIGATION CONTRACTOR CAN SUBSTITUTE POLYETHYLENE FLEX PIPE INSTEAD OF SWING JOINT.

2 TURF ROTOR HEAD

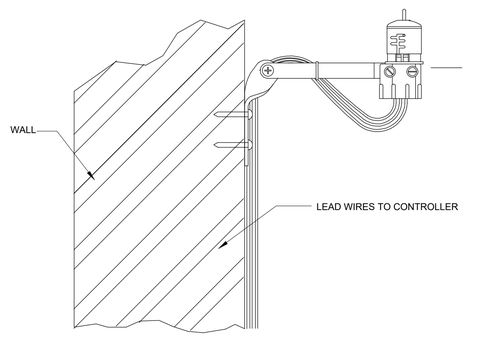
NOT TO SCALE

NOTE:
1. CONTRACTOR TO COMPLY WITH ALL LOCAL CODES AND ORDINANCES IN REFERENCE TO THE INSTALLATION OF PVC PIPING AND LOW VOLTAGE WIRING.
2. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH SCHEDULE 40 PVC TWO (2) TIMES THE DIAMETER OF THE PIPE WITHIN.
3. IF USING A TWO WIRE SYSTEM COMPLY WITH ALL SPECIFICATIONS OF THE MANUFACTURER.



3 PIPE AND WIRE TRENCHING

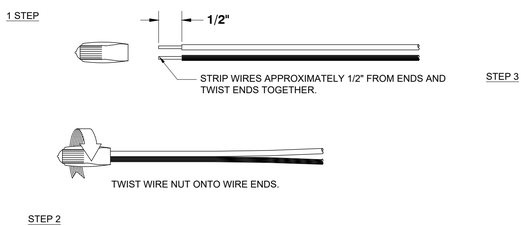
NOT TO SCALE

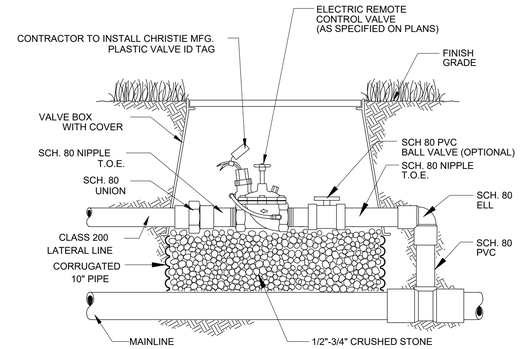


NOTE:
1. MOUNT RAIN SENSOR ON ANY SURFACE WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, BUT NOT IN THE PATH OF SPRINKLER SPRAY.

4 RAIN SENSOR DETAIL

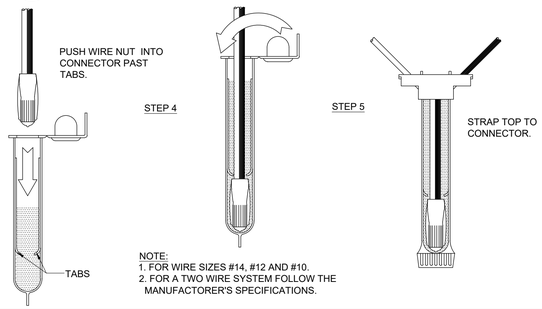
NOT TO SCALE





5 ELECTRIC REMOTE CONTROL VALVE

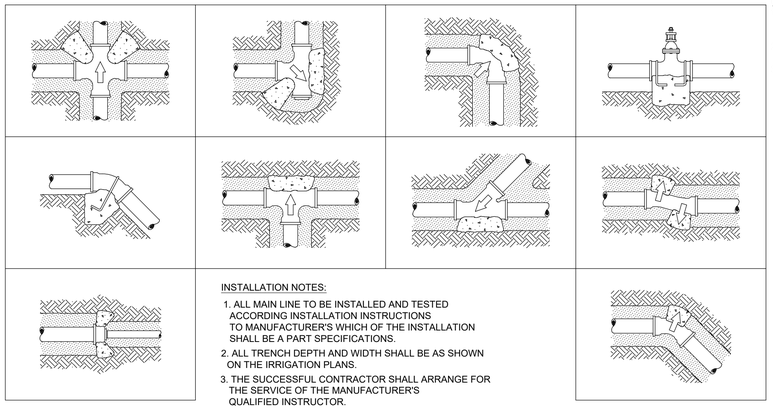
1 1/2" = 1'-0"



NOTE:
1. FOR WIRE SIZES #14, #12 AND #10.
2. FOR A TWO WIRE SYSTEM FOLLOW THE MANUFACTORER'S SPECIFICATIONS.

7 WIRE CONNECTION DETAIL

NOT TO SCALE



NOTE:
1. DIRECTIONAL SUPPLY LINES 3" IN DIAMETER AND LARGER SHALL RECEIVE DUCTILE IRON FITTINGS AND RESTRAINTS.
2. SUPPLY LINES 2" IN DIAMETER AND LARGER SHALL RECEIVE CONCRETE THRUST BLOCKS.
3. A MINIMUM OF 6" OF CONCRETE SHALL BE POURED ON VIRGIN OR COMPACTED SOIL BENEATH EACH INSTALLATION.

INSTALLATION NOTES:
1. ALL MAIN LINE TO BE INSTALLED AND TESTED ACCORDING INSTALLATION INSTRUCTIONS TO MANUFACTURER'S WHICH OF THE INSTALLATION SHALL BE A PART SPECIFICATIONS.
2. ALL TRENCH DEPTH AND WIDTH SHALL BE AS SHOWN ON THE IRRIGATION PLANS.
3. THE SUCCESSFUL CONTRACTOR SHALL ARRANGE FOR THE SERVICE OF THE MANUFACTURER'S QUALIFIED INSTRUCTOR.

6 CONCRETE THRUST BLOCKS

NOT TO SCALE

PROJECT TITLE

halff
2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

Jordan P Limburg ##J

Digitally signed by Jordan P Limburg
Date: 2024.11.25 11:26:39 -05'00'

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

NO	ZONE	REVISIONS / SUBMISSIONS	DATE
#	#	#	#
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PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JPL
DRAWN	KH/JPL
CHECKED	JPL
REVIEWED	JPL

SHEET TITLE

IRRIGATION DETALS

L8

SHEET 31 OF 32

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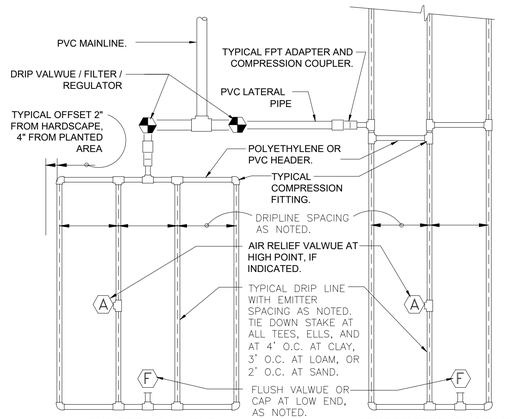


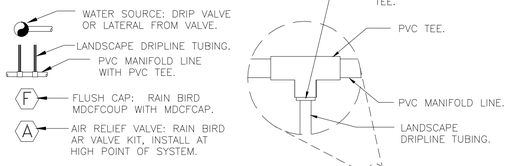
SLOPED CONDITION NOTE:
1. DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE.
2. INSTALL AIR RELIEF VALWUE AT HIGHEST POINT.
3. NORMAL SPACING WITHIN THE TOP ⅔ OF SLOPE.
4. INSTALL DRIPLINE AT 25% GREATER SPACING AT THE BOTTOM ⅓ OF THE SLOPE.
5. WHEN ELEVATION CHANGE IS 10 FT OR MORE, ZONE THE BOTTOM ⅓ ON A SEPARATE VALWUE.

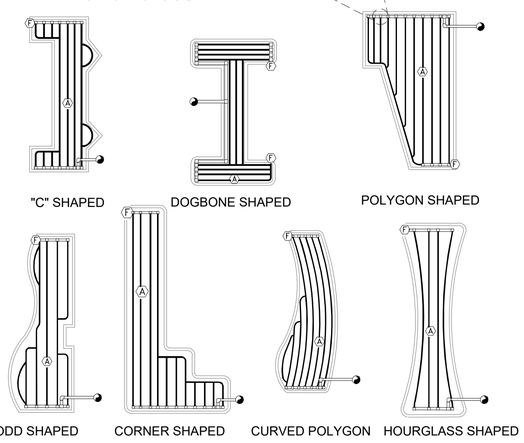
GRID PRECIPITATION RATES (IN/HR)			
		EMITTER FLOW RATE	
EMITTER SPACING	LATERAL SPACING	0.6	0.9
12	12	0.96	1.44
18	18	0.69	1.03
24	24	0.28	0.41

LATERAL FLOW PER 100 FT (GPM)			
EMITTER FLOW	12" SPACING	18" SPACING	24" SPACING
0.6 GPH	1.0 GPM	0.67 GPM	0.50 GPM
0.9 GPH	1.5 GPM	1.0 GPM	0.75 GPM

MAXIMUM FLOW PER ZONE		
	MAX GPM	PSI LOSS
SCHEDULE 40 PVC HEADER SIZE		
1/2"	4.7 GPM	7.7 PSI
3/4"	8.3 GPM	5.6 PSI
1"	13.5 GPM	4.2 PSI
1-1/2"	33.9 GPM	2.9 PSI
2"	52.4 GPM	1.9 PSI
POLY PIPE HEADER SIZE		
1/2"	4.7 GPM	8.8 PSI
3/4"	8.3 GPM	6.3 PSI
1"	13.5 GPM	4.8 PSI
1-1/2"	31.8 GPM	2.9 PSI
2"	52.4 GPM	2.2 PSI

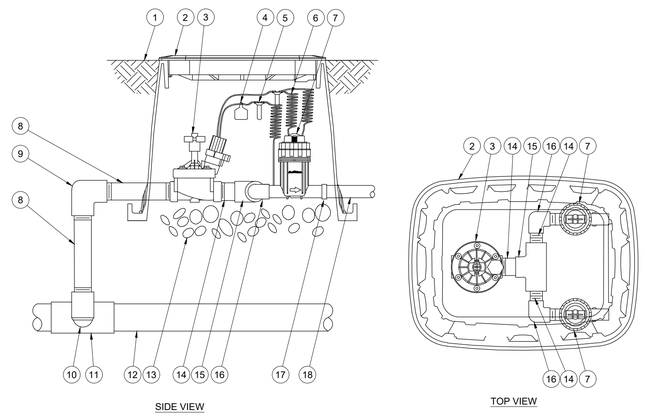
MAXIMUM LATERAL LENGTH (FEET)						
	EMITTER FLOW RATE GPH					
	12" SPACING		18" SPACING		24" SPACING	
PSI	0.6	0.9	0.6	0.9	0.6	0.9
10	125	96	175	135	218	171
20	249	191	350	171	442	340
30	307	236	434	333	550	422
40	350	268	495	380	627	171
50	125	96	175	135	218	171
60	125	96	175	135	218	171





1 TYPICAL RAIN BIRD DRIPLINE REQUIREMENTS

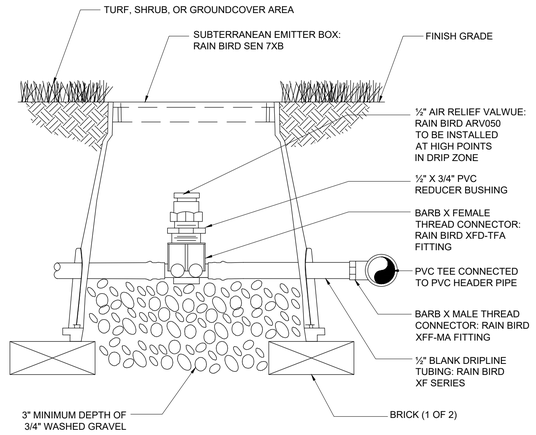
NOT TO SCALE



2 XCZ-PRB-150-COM 1.5" COMMERCIAL CONTROL ZONE KIT

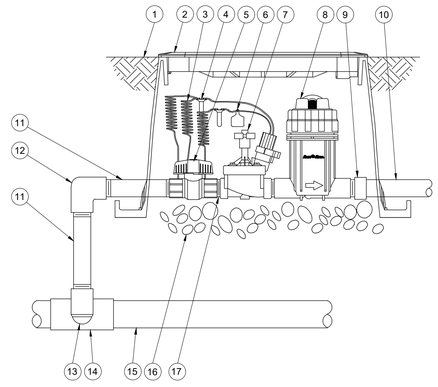
NOT TO SCALE

1. FINISH GRADE/TOP OF MULCH
2. VALWUE BOX WITH COVER: RAIN BIRD VB-STD
3. REMOTE CONTROL VALWUE: RAIN BIRD 150-PESB (INCLUDED IN XCZ-PRB-150-COM KIT)
4. ID TAG
5. WATERPROOF CONNECTION: RAIN BIRD DB SERIES
6. 30-INCH LINEAR LENGTH OF WIRE, COILED
7. PRESSURE REGULATING QUICK CHECK BASKET FILTER: RAIN BIRD PRB-QKCHK-100 (INCLUDED IN XCZ-PRB-150-COM KIT)
8. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
9. PVC SCH 40 ELL
10. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
11. PVC SCH 40 TEE OR ELL
12. MAINLINE PIPE
13. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
14. PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN XCZ-PRB-150-COM KIT)
15. PVC SCH 40 TEE (INCLUDED IN XCZ-PRB-150-COM KIT)
16. PVC SCH 40 ELL (INCLUDED IN XCZ-PRB-150-COM KIT)
17. PVC SCH 40 FEMALE ADAPTOR
18. LATERAL PIPE



3 1/2" AIR RELIEF VALVE IN XFS SUB-SUFACE DRIPLINE

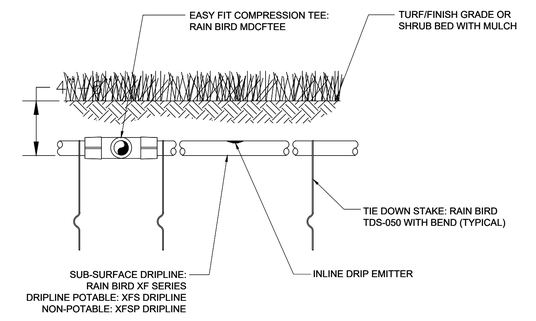
NOT TO SCALE



4 XCZ-PRB-100-COM 1" COMMERCIAL CONTROL ZONE KIT

NOT TO SCALE

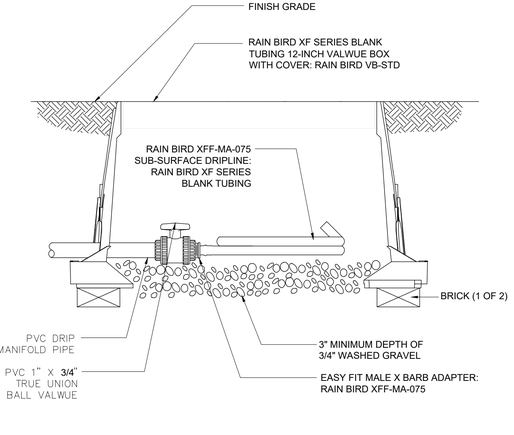
1. FINISH GRADE/TOP OF MULCH
2. VALWUE BOX WITH COVER: RAIN BIRD VB-STD
3. 30-INCH LINEAR LENGTH OF WIRE, COILED
4. WATERPROOF CONNECTION: RAIN BIRD DB SERIES
5. 1-INCH BALL VALWUE (INCLUDED IN XCZ-PRB-100-COM KIT)
6. ID TAG
7. REMOTE CONTROL VALWUE: RAIN BIRD PESB (INCLUCED IN XCZ-PRB-100-COM KIT)
8. PRESSURE REGULATING QUICK CHECK BASKET FILTER: RAIN BIRD PRB-QKCHK-100 (INCLUDED IN XCZ-PRB-100-COM KIT)
9. PVC SCH 40 FEMALE ADAPTOR
10. LATERAL PIPE
11. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
12. PVC SCH 40 ELL
13. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
14. PVC SCH 40 TEE OR ELL
15. MAINLINE PIPE
16. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
17. PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN XCZ-PRB-100-COM KIT)



NOTES:
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.
3. INSERTION PLOW AND TRENCHED INSTALLATIONS DO NOT REQUIRE TIE DOWN STAKES.

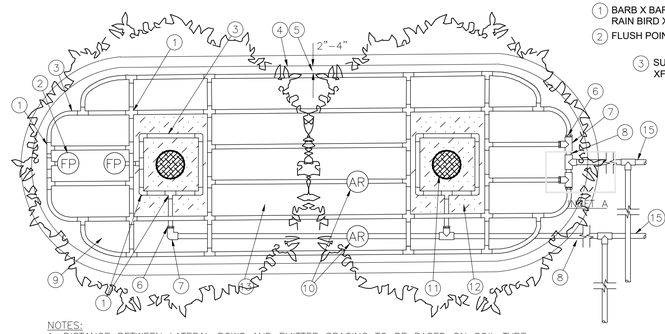
5 XFS SUB-SURFACE DRIPLINE BURIAL

NOT TO SCALE



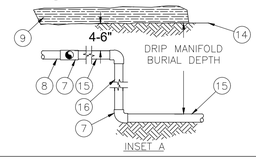
6 XFS DRIPLINE FLUSH POINT WITH BALL VALVE

NOT TO SCALE



1. BARB X BARB INSERT EL, TEE OR CROSS: RAIN BIRD XFF-ELBOW (TYPICAL); RAIN BIRD XFF-TEE (TYPICAL); RAIN BIRD XFD-CROSS (TYPICAL)
2. FLUSH POINT (TYPICAL); SEE RAIN BIRD XFS DETAILS FOR FLUSH POINT INSTALLATION
3. SUB-SURFACE DRIPLINE PIPE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFS DRIPLINE NON-POTABLE: XFSP DRIPLINE
4. PARKING ISLAND CURB
5. PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PARKING ISLAND CURB
6. BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING (TYPICAL)
7. PVC SCH 40 TEE OR EL (TYPICAL)
8. PVC SUPPLY MANIFOLD
9. TURF, SHRUB OR GROUNDCOVER BED
10. ½" AIR RELIEF VALWUE: RAIN BIRD MODEL: ARV050 SEE RAIN BIRD XFS DETAILS FOR AIR RELIEF INSTALLATION
11. TREE (TYPICAL)
12. MULCH BED FOR TREE
13. TURF, SHRUB, OR GROUNDCOVER BED
14. FINISH GRADE
15. PVC DRIP MANIFOLD FROM RAIN BIRD CONTROL ZONE VALWUE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
16. PVC RISER PIPE

NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
3. INSTALL AIR RELIEF VALWUE AT HIGH POINTS IN DRIP ZONE.
4. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50 PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.



7 XFS SUB-SURFACE DRIPLINE - PARKING ISLAND WITH TREES

NOT TO SCALE

halff
2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

Jordan P Limburg ###

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Date: 2024.11.25 11:27:46 -05'00'

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

NO	ZONE	REVISIONS / SUBMISSIONS	DATE
#	#	#	#
#	#	#	#
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#	#	#	#

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PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JPL
DRAWN	KH/JPL
CHECKED	JPL
REVIEWED	JPL

SHEET TITLE

DRIP IRRIGATION DETAILS

L9

SHEET 32 OF 32

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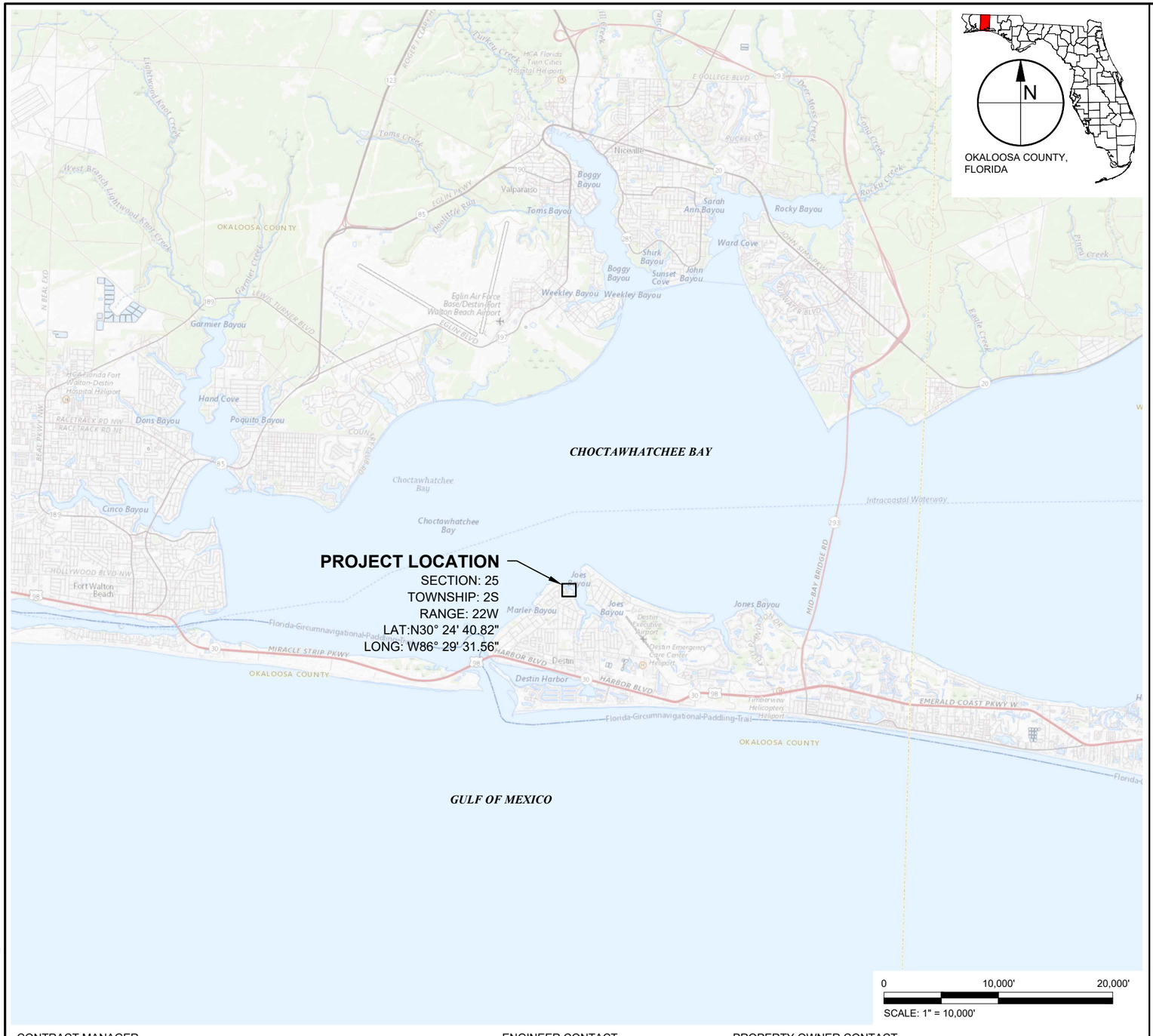

JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT

CITY OF DESTIN, FLORIDA

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.
NOT FOR CONSTRUCTION

DRAWING INDEX

FIG 1	TITLE SHEET
FIG 2	GENERAL NOTES
FIG 3	GENERAL NOTES
FIG 4	GENERAL NOTES
FIG 5	GENERAL NOTES
FIG 6	REGULATORY PERMIT QUANTITIES
FIG 7	REGULATORY PERMIT QUANTITIES
FIG 8	EROSION CONTROL DETAILS
FIG 9	SIGNAGE
FIG 10	SIGNAGE OVERVIEW
FIG 11	EXISTING CONDITIONS
FIG 12	PROJECT OVERVIEW
FIG 13	PROJECT IMPACTS
FIG 14	PRESERVATION, RESTORATION, ENHANCEMENT, AND CREATION
FIG 15	BOAT RAMP PLAN
FIG 16	BOAT RAMP ELEVATIONS
FIG 17	BOAT RAMP DETAILS
FIG 18	PADDLE-CRAFT DOCK DETAILS
FIG 19	POND BOARDWALK PLAN AND DETAIL
FIG 20	NATURE BOARDWALK PLAN AND DETAIL
FIG 21	SHORELINE PLAN
FIG 22	SHORELINE PLAN
FIG 23	PIER, SHORELINE, AND BREAKWATER DETAILS
FIG 24	DREDGING PLAN AND DETAILS
FIG 25	SOVEREIGN SUBMERGED LAND EASEMENT (SSLE) PLAN

CONTRACT MANAGER
PEARCE L. BARRETT III, P.E., F.C.C.M.
DEEPWATER HORIZON PROGRAM DIVISION OF WATER RESTORATION ASSISTANCE
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
3900 COMMONWEALTH BOULEVARD, MS 240
TALLAHASSEE, FLORIDA 32399
850-245-2106
PEARCE.BARRETT@FLORIDADEP.GOV

ENGINEER CONTACT
DUNCAN GREER, P.E.
PROJECT MANAGER
TAYLOR ENGINEERING, INC.
4300 LEGENDARY DRIVE, SUITE C246
DESTIN, FLORIDA 32541
850-460-7040
DGREER@TAYLORENGINEERING.COM

PROPERTY OWNER CONTACT
JEFF COZADD
PROJECTS/GRANTS/CONTRACTS MANAGER
CITY OF DESTIN |OFFICE OF THE CITY MANAGER
4200 INDIAN BAYOU TRAIL
DESTIN, FLORIDA 32541
850-279-4228
JCOZADD@CITYOFDESTIN.COM

This item has been digitally signed and sealed by Duncan Greer, P.E. on the date adjacent to the seal.
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SEAL
DUNCAN GREER
LICENSE
No. 83306
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DUNCAN GREER P.E. #83306

PROJECT	C2021-045
DRAWN BY	AF
SHEET	1 of 25
DATE	OCT 2024

FIGURE 1
TITLE SHEET
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY #4815

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

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GENERAL NOTES:

1. DRAWING REFERENCES THE FLORIDA STATE PLANE EAST, NORTH AMERICAN DATUM OF 1983 (NAD83).

2. ALL ELEVATIONS REFERENCE THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88). ELEVATIONS IN FEET UNLESS NOTED OTHERWISE.

3. AERIAL IMAGERY RECORDED BY TAYLOR ENGINEERING, INC., AUGUST 27, 2021. AERIAL IMAGERY SUPPLEMENTED WITH GOOGLE EARTH, 2021. AERIAL IMAGERY IS FOR INFORMATIONAL PURPOSES ONLY, NO ACCURACY IS IMPLIED.

4. EXISTING STORMWATER PONDS AND PARKING PERMITTED UNDER THE MATTIE KELLY PARKING LOT PERMIT (FDEP PERMIT NO. 40-0137613-001-RG, ISSUED MARCH 31, 1998) AND THE JOES BAYOU BOAT RAMP PHASE I PERMIT (FDEP PERMIT NO. 46-0153129-001-RG, ISSUED APRIL 15, 1999).

5. EXISTING FILL AND RIPRAP PLACED ALONG SHORELINE UNDER THE JOE'S BAYOU BEACH STABILIZATION PERMIT (FDEP PERMIT NO. 0150293-001-DF, ISSUED APRIL 29, 1999), THE JOES BAYOU BOAT RAMP RIPRAP PERMIT (FDEP PERMIT NO. 46-0139736-001-DF, ISSUED MAY 6, 1998, AND FDEP PERMIT NO. 46-0139736-002-DE, ISSUED APRIL 13, 1998), AND THE CHOCTAWHATCHEE BASIN ALLIANCE SHORELINE RESTORATION PERMIT (USACE PERMIT NO. SAJ-2009-01360 (NW-MMW), ISSUED JUNE 4, 2009).

6. BOAT RAMP PERMITTED UNDER THE JOE'S BAYOU PERMIT (FDEP PERMIT NO. 0142030-001-DF, ISSUED APRIL 7, 1999).

7. THE FISHING PIER AND BOARDWALKS WITHIN MATTIE KELLY PARK PERMITTED UNDER THE MATTIE KELLY PARK PERMIT (FDEP PERMIT NO. 46-0295766-001, ISSUED, DECEMBER 20, 1996, AND USACE PERMIT NO. 199260947 (LP-DB), ISSUED APRIL 14, 1997).

8. THE HOLDING POND WAS AUTHORIZED UNDER THE READY-MIX USA DESTIN PLANT PERMIT (FDEP PERMIT NO. FLG110357-001-IWCB, ISSUED FEBRUARY 22, 2002, AND MODIFIED AUGUST 24, 2005; JANUARY 11, 2012; AND SEPTEMBER 23, 2011.

9. HYDROGRAPHIC SURVEY PERFORMED BY SEASIDE ENGINEERING AND SURVEYING, LLC, AUGUST 19, 2021.

10. MEAN HIGH-WATER LINE (MHWL) LOCATED BY SEASIDE ENGINEERING AND SURVEYING, LLC, SEPTEMBER 1-3, 2021.

11. BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED BY SEASIDE ENGINEERING AND SURVEYING, LLC, OCTOBER 7, 2021.

12. JURISDICTIONAL WETLANDS, SUBMERGED AQUATIC RESOURCES, AND INVASIVE SPECIES EXTENTS SURVEYED BY TAYLOR ENGINEERING, INC., AUGUST 23-27, 2021.

13. FORMAL DETERMINATION OF THE LANDWARD EXTEND OF WETLANDS AND OTHER SURFACE WATERS ISSUED BY THE FDEP FOR THIS PROJECT SITE ON AUGUST 16, 2022 (FDEP FILE NO. 0142030-002-FD/46).

14. APPROVED JURISDICTIONAL DETERMINATION (AJD) ISSUED BY THE USACE FOR THE UPLAND/WETLAND BOUNDARY FOR THIS PROJECT SITE ON MARCH 1, 2022 (USACE FILE NO. SAJ-2021-03967). THE LIMITS OF FEDERAL JURISDICTION (THE HIGH TIDE LINE) ALONG JOE'S BAYOU WERE NOT IDENTIFIED OR VERIFIED FOR THIS SITE AS PART OF THIS AJD.

15. SEAGRASS LOCATIONS SHOWN HEREIN MAY EXTEND WATERWARD BEYOND THE SURVEY LIMITS. A PRECONSTRUCTION SEAGRASS SURVEY SHALL BE PERFORMED TO CONFIRM SEAGRASS LOCATIONS IMMEDIATELY PRIOR TO CONSTRUCTION.

16. TIDAL DATUM OBTAINED FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, DEC 2023. SITE USES TIDAL DATUM FOR NOAA STATION 8729511 DESTIN, EAST PASS, FL.

17. WORK VESSELS (E.G., BARGES, TUGS, ETC.) SHALL MAINTAIN AT LEAST 1 FT OF CLEAR DISTANCE BETWEEN THE LOWEST DRAFT OF THE VESSEL AND THE BOTTOM. NO SPUDDING IS ALLOWED OVER SEAGRASS.

18. DREDGING IS PROPOSED TO A DEPTH OF -6 FT (NAVD88) WITHIN JOES' BAYOU.

19. NO IMPACT TO MANGROVES OR SALT MARSH IS PROPOSED.

20. IMPACTS TO WETLAND CONIFEROUS FORESTS AND NON-FORESTED FRESHWATER WETLANDS WILL BE COMPENSATED BY THE PROPOSED MANAGEMENT OF INVASIVE SPECIES ACROSS THE PROJECT SITE AND LITTORAL ZONE ENHANCEMENTS WITHIN THE LARGE STORMWATER POND.

21. IMPACTS TO SUBMERGED AQUATIC VEGETATION HAVE BEEN MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE AND ARE LIMITED TO SHADING IMPACTS ASSOCIATED WITH THE EXPANSION OF THE TIMBER FISHING PIER. OVER SEAGRASS, THE FISHING PIER IS APPROXIMATELY 4.5 FT ABOVE THE MHWL AND 7.5 FT ABOVE THE SEAFLOOR. DECKBOARDS WILL BE SPACED AT LEAST ½ INCH APART WHILE ANY NEW PILINGS WILL BE SPACED 10 FT ON CENTER. EXISTING PILINGS WILL BE UTILIZED FOR PORTIONS OF THE PIER TO BE RECONSTRUCTED TO FURTHER MINIMIZE ANY POTENTIAL IMPACTS.

22. SHADING IMPACTS TO SEAGRASSES WILL BE COMPENSATED BY ANTICIPATED RECRUITMENT BEHIND THE BREAKWATERS WITHIN THE "SEAGRASS RECRUITMENT AREA". PROP SCAR AND ANCHOR SCAR RESTORATION WITHIN THE "SEAGRASS PRESERVATION AREA", IF CONDUCTED, WILL SUPPLEMENT THIS COMPENSATION.

23. AS NEEDED, REVETMENTS WILL BE FIELD FIT TO ENSURE A MINIMUM 3-FT BUFFER BETWEEN ANY PROPOSED STRUCTURES AND EXISTING SEAGRASS.

24. CONSTRUCTION SHALL NOT IMPACT CULTURAL RESOURCES. SEE PERMIT CONDITIONS FOR ADDITIONAL REQUIREMENTS.

25. CONSTRUCTION SHALL NOT VIOLATE STATE WATER QUALITY STANDARDS.

26. MATERIAL QUANTITIES AND AREAS ARE ESTIMATED BASED ON THE EXISTING CONDITIONS AT THE TIME OF THE SURVEYS LISTED ABOVE.

27. TURBIDITY CURTAINS AND/OR SILT FENCES SHALL SURROUND ACTIVE WORK AREAS. TURBIDITY CURTAINS AND/OR SILT FENCES SHALL BE LOCATED AND REPOSITIONED BY THE CONTRACTOR USING BEST MANAGEMENT PRACTICES TO ASSURE WATER QUALITY STANDARDS ARE MAINTAINED THROUGHOUT CONSTRUCTION. PROPER INSTALLATION AND MONITORING WILL ENSURE LISTED SPECIES DO NOT BECOME ENTANGLED OR TRAPPED BY THE CURTAINS AND IMPACTS TO ADJACENT SEAGRASSES OR WETLANDS DOES NOT OCCUR.

28. SOLAR POWERED LIGHTS WILL BE AFFIXED TO THE TERMINAL END OF THE PIERS FOR NAVIGATION SAFETY AS REQUIRED BY USCG REGULATIONS.

29. EDUCATIONAL SIGNS WILL BE INCORPORATED AS APPROPRIATE AND WILL INCLUDE ALL SIGNS AS REQUIRED BY THE FLORIDA FISH AND WILDLIFE COMMISSION AND THE NATIONAL MARINE FISHERIES SERVICE.

30. THE APPLICANT INTENDS TO MAINTAIN FLEXIBLE MOORING WITHIN THIS FACILITY. ANTICIPATED VESSEL LENGTHS RANGE FROM 16 TO 32 FT.

31. THE MAXIMUM DRAFT OF MOORED VESSELS SHALL MAINTAIN GREATER THAN 1 FT OF CLEARANCE WITH THE BOTTOM AT MEAN LOWER LOW WATER.

32. MOORED VESSELS SHALL REMAIN WITHIN THE DESIGNATED SLIP BOUNDARIES.

30. THESE PLANS ARE IN PRELIMINARY FORM FOR REGULATORY REVIEW. THESE PLANS ARE NOT FOR CONSTRUCTION. QUANTITIES ARE ESTIMATED AND SUBJECT TO CHANGE.

GENERAL DEMOLITION NOTES

1. TURBIDITY AND EROSION CONTROLS WILL BE PLACED AROUND THE WORK AREA AS REQUIRED BY PERMITS.

2. DEMOLITION OF EXISTING IN-WATER FEATURES SHALL BE WATER-BASED TO THE GREATEST EXTENT PRACTICAL. IF NEARSHORE WATER DEPTHS PRECLUDE WORK VESSEL ACCESS, CONTRACTOR MAY USE LOW-PRESSURE TRACK EQUIPMENT TO ACCESS SHALLOW DEPTHS.

3. DEMOLITION OF EXISTING PIERS WILL PROCEED SEQUENTIALLY, OR FROM THE SEAWARD-MOST POINT TO THE LANDWARD-MOST POINT, STARTING WITH REMOVAL OF HANDRAILS AND DECKING THEN PROCEEDING TO REMOVAL OF ANY PILINGS THAT WILL NOT BE REUSED.

4. THE PIERS WILL BE DECONSTRUCTED BY REMOVING HANDRAILS, DECK BOARDS, JOISTS AND PILE CAPS. ALL EXISTING PILES, OTHER THAN PILINGS ASSOCIATED WITH THE FISHING PIER REPAIR, WILL BE EXTRACTED OR CUT OFF AT THE MUDLINE. PILINGS ASSOCIATED WITH THE FISHING PIER REPAIR WILL REMAIN TO LIMIT IMPACTS TO EXISTING SUBMERGED AQUATIC VEGETATION.

5. DEMOLITION ASSOCIATED WITH THE MATTIE KELLY PARK BOARDWALK WILL BE LAND-BASED AND, TO THE GREATEST EXTENT PRACTICAL, ALL WORK WILL BE CONDUCTED FROM THE EXISTING STRUCTURE TO AVOID UNPERMITTED IMPACTS TO ADJACENT WETLANDS.

6. DEMOLITION ASSOCIATED WITH THE MATTIE KELLY PARK BOARDWALK WILL PROCEED SEQUENTIALLY, STARTING AT THE POINT WITHIN THE WETLANDS FURTHEST FROM THE PARKING LOTS AND THEN PROCEEDING NORTH/SOUTH TO THE NEAREST PARKING LOT.

7. DEMOLITION OF THE BOARDWALK WILL BE LIMITED TO DECKING, HANDRAILS, SIGNAGE, ETC. EXISTING PILES TO REMAIN AND BE REUSED TO AVOID UNPERMITTED IMPACTS TO WETLAND VEGETATION.

8. DEMOLITION OF THE EXISTING BOARDWALK MAY NOT PROCEED UNTIL PILE INSTALLATION ASSOCIATED WITH THE BUMPOUTS HAS BEEN COMPLETED.

9. DEMOLITION OF THE EXISTING SEAWALL WILL BE LIMITED TO THAT WHICH IS NECESSARY TO ACCOMMODATE INSTALLATION OF THE NEW SEAWALL, OTHERWISE IT WILL REMAIN IN PLACE

10. AFTER INSTALLATION OF THE TEMPORARY COFFERDAM, DEMOLITION OF THE EXISTING BOAT RAMP WILL BE LAND-BASED, WITH REMOVAL TO START AT THE SEAWARD MOST POINT OF THE RAMP AND PROCEED BACK TOWARDS LAND.

11. EXISTING RIPRAP TO BE REMOVED FROM THE AREAS DENOTED IN THESE DRAWINGS AS EMBAYMENTS OR AS PART OF ANY REGRADING ACTIVITIES WILL BE REUSED TO THE GREATEST EXTENT PRACTICABLE, PROVIDED THEY CONSIST OF CLEAN, NON-LEACHING MATERIALS.

12. ALL DEBRIS RESULTING FROM THE DEMOLITION THAT IS NOT TO BE REUSED WILL BE HAULED OFF-SITE AND DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL AND STATE REGULATIONS.

GENERAL STONE BREAKWATER NOTES

1. BREAKWATER CONSTRUCTION SHALL BE WATER-BASED TO THE GREATEST EXTENT PRACTICAL. IF NEARSHORE WATER DEPTHS PRECLUDE WORK VESSEL ACCESS, CONTRACTOR MAY USE LOW-PRESSURE TRACK EQUIPMENT TO ACCESS SHALLOW DEPTHS.

2. BREAKWATERS SHALL INCORPORATE A MINIMUM OF TWO LAYERS OF ARMOR STONE. CHINKING STONE SHALL BE INCORPORATED WITHIN THE ARMOR STONE LAYERS.

   a. THE BOTTOM LAYER OF BREAKWATER SHALL BE BEDDING STONE (12" THICK).

   b. CREST WIDTH OF BREAKWATERS IS 5 FT AT AN ELEVATION AROUND +3 FT (NAVD88). BREAKWATERS SHALL EXTEND 2 FT TO 3 FT ABOVE THE WATER'S SURFACE DURING NORMAL CONDITIONS

   c. BREAKWATERS WILL LOCATE BETWEEN 35 FT – 265 FT FROM THE MEAN HIGH-WATER LINE. CONFIGURATION OF BREAKWATERS IS SUBJECT TO ALTERATION DURING FINAL DESIGN BUT WILL AVOID PLACEMENT ON OR OVER SEAGRASS AT ALL TIMES.

3. MATERIALS ARE SUBJECT TO CHANGE BUT WILL CONSIST OF CLEAN, NON-LEACHING MATERIALS SUCH AS LIMESTONE, GRANITE, CONCRETE, OR SIMILAR AND WILL BE FREE OF ALL POLLUTANTS. BREAKWATER DIMENSIONS AND PLAN VIEW LOCATIONS MAY BE REVISED DURING FINAL DESIGN BUT WILL AVOID PLACEMENT ON OR OVER SEAGRASS AT ALL TIMES.

GENERAL RIPRAP NOTES

1. NEW CONSTRUCTION, REPAIR, REPLACEMENT, AND/OR REMOVAL OF RIPRAP SHALL BE WATER-BASED TO THE GREATEST EXTENT PRACTICAL. IF NEARSHORE WATER DEPTHS PRECLUDE WORK VESSEL ACCESS, CONTRACTOR MAY USE LOW-PRESSURE TRACK EQUIPMENT TO ACCESS SHALLOW DEPTHS.

2. RIPRAP SHORE AND TOE PROTECTION FEATURES ARE INTENDED TO PROTECT THE PROPOSED STRUCTURES, MITIGATE EFFECTS OF SEA LEVEL RISE, INCREASE STORM RESILIENCY, AND ENHANCE PRODUCTIVITY OF EXISTING SHORELINE AND SALT MARSH HABITATS. THESE STRUCTURES WILL ALSO PROVIDE OYSTER HABITAT.

   a. RIPRAP SHORE AND TOE PROTECTION FEATURES WILL BE COMPRISED OF ARMOR STONES, WITHOUT BEDDING FOUNDATION, THAT ARE OF SUFFICIENTLY MASSIVE TO REMAIN IN PLACE DURING A 20-YR RETURN PERIOD STORM CONDITION.

   b. IN LOCATIONS WHERE THE PROPOSED RIPRAP IS INTENDED TO BE USED AS A SHORE PROTECTION FEATURE, GEOTEXTILE FILTER FABRIC WILL BE INSTALLED PRIOR TO THE PLACEMENT OF ARMOR STONES.

   c. IN LOCATIONS WHERE PROPOSED RIPRAP IS INTENDED TO BE USED AS A TOE PROTECTION FEATURE, ARMOR STONE WILL BE PLACED DIRECTLY ATOP THE EXISTING GRADE IN SUCH MANNER TO ENSURE STABILITY. AS NEEDED, EXISTING RIPRAP MAY BE REMOVED OR REGRADED BASED ON THE SPECIFICATIONS HEREIN.

   d. CREST WIDTH OF RIPRAP SHORE PROTECTION FEAURES IS 3 FT AT AN ELEVATION AROUND +4 FT (NAVD88). RIPRAP SHORE PROTECTION FEAURES SHALL EXTEND 2 FT TO 3 FT ABOVE THE WATER'S SURFACE DURING NORMAL CONDITIONS. AS NEEDED, CLEAN SAND FILL MAY BE USED AS BACKFILL TO TIE THE SHORE PROTECTION FEATURES INTO THE EXISTING GRADE.

   e. CREST WIDTH OF RIPRAP TOE PROTECTION FEATURES VARIES FROM 1-3 FT AT ELEVATION 4 FT (NAVD88), DEPENDING ON LOCATION. IN THE VICINITY OF

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FIGURE 2
GENERAL NOTES
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4515

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

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THE SEAWALL, TOE PROTECTION FEATURES WILL EXTEND 1 – 5 FT FROM THE SEAWALL. IN THE VICINITY OF THE BOATING FACILTIES, TOE PROTECTION FEATURES WILL EXTEND 5 FT FROM THE CONCRETE BOAT RAMP(S) AND 8 FT FROM THE SHEETPILE WALL.

f. RIPRAP SHORE PROTECTION FEATURES WILL LOCATE BETWEEN 0 – 20 FT FROM THE MEAN HIGH-WATER LINE.

g. IN THE VICINITY OF THE SEAWALL, TOE PROTECTION FEATURES WILL EXTEND 0 - 15 FT FROM THE MEAN HIGH-WATER LINE. IN THE VICINITY OF THE BOATING FACILTIES, TOE PROTECTION FEATURES WILL EXTEND 0 - 75 FT FROM THE MEAN HIGH-WATER LINE.

h. THE EXACT LOCATION OF THE RIPRAP SHORE AND TOE PROTECTION FEATURES ARE SUBJECT TO ALTERATION DURING CONSTRUCTION AND WILL BE BASED ON FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. PLACEMENT OF ARMOR STONE ON OR OVER SEAGRASS OR SALT MARSH WILL BE AVOIDED AT ALL TIMES. A MINIMUM 3-FT BUFFER WILL BE MAINTAINED BETWEEN ANY NEW RIPRAP AND ANY SEAGRASS IDENTIFIED AT THE TIME OF CONSTRUCTION.

3. MATERIALS ARE SUBJECT TO CHANGE BUT WILL CONSIST OF CLEAN, NON-LEACHING MATERIALS SUCH AS LIMESTONE, GRANITE, CONCRETE, OR SIMILAR AND WILL BE FREE OF ALL POLLUTANTS. REVETMENT DIMENSIONS AND PLAN VIEW LOCATIONS MAY BE REVISED DURING FINAL DESIGN BUT WILL AVOID PLACEMENT ON OR OVER SEAGRASS AT ALL TIMES.

GENERAL PILE-SUPPORTED STRUCTURES NOTES

1. PILE INSTALLATION FOR IN-WATER FEATURES SHALL BE WATER-BASED TO THE GREATEST EXTENT PRACTICAL. IF NEARSHORE OR POND WATER DEPTHS PRECLUDE WORK VESSEL ACCESS, CONTRACTOR MAY USE LOW-PRESSURE TRACK EQUIPMENT TO ACCESS SHALLOW DEPTHS.

2. PILE INSTALLATION ASSOCIATED WITH THE MATTIE KELLY PARK BOARDWALK WILL BE LIMITED TO THE PROPOSED BOARDWALK BUMP-OUTS. OTHERWISE, THE EXISTING PILES WILL BE REUSED FOR THE BOARDWALK ENHANCEMENT ASPECT OF THE PROJECT. TO THE GREATEST EXTENT PRACTICAL, PILES WILL BE INSTALLED FROM THE EXISTING STRUCTURE TO LIMIT WETLAND IMPACTS.

3. PILE INSTALLATION ASSOCIATED WITH THE TIMBER FISHING PIER WILL BE LIMITED TO THE PROPOSED FISHING PIER EXPANSION. EXISTING PILINGS WILL BE UTILIZED FOR PORTIONS OF THE PIER TO BE RECONSTRUCTED TO MINIMIZE ANY POTENTIAL IMPACTS. ANY NEW PILINGS WILL BE SPACED 10 FT ON CENTER.

4. NO OVER-WATER FUELING FACILITIES (PUMPS OR PERMANENT PLUMBING), LIVEABOARDS, OR SEWAGE PUMP-OUTS ARE PROPOSED.

5. AN EXISTING SEWAGE PUMP-OUT CURRENTLY LOCATED ON A TIMBER PIER WITHIN THE BOAT RAMP AREA WILL BE REMOVED DUE TO LACK OF USE. THIS WILL MINIMIZE POTENTIAL IMPACTS TO SWIMMERS OR PADDLECRAFT USERS WITHIN THE BEACH AREA.

6. STRUCTURE ELEVATIONS AND CONSTRUCTION MATERIALS ARE SUBJECT TO CHANGE IN THE FINAL DESIGN. PILE EMBEDMENT AND DIMENSIONS WILL BE DETERMINED DURING FINAL DESIGN.

7. TREATED TIMBER PILINGS WILL BE WRAPPED OR OTHERWISE MADE OF NON-LEACHING MATERIALS.

8. PILINGS ASSOCIATED WITH THE BOAT RAMP FACILITY, MOORING PIER, OR FISHING PIER WILL BE INSTALLED BY A COMBINATION OF JETTING AND IMPACT HAMMER. CONTRACTOR TO UTILIZE TURBIDITY CURTIANS TO AVOID ALL IMPACTS TO AQUATIC VEGETATION.

9. PILINGS ASSOCIATED WITH THE POND BOARDWALK WILL BE INSTALLED BY A COMBINATION OF JETTING AND IMPACT HAMMER. CONTRACTOR TO UTILIZE SILT FENCES TO AVOID ALL UNPERMITTED IMPACTS TO WETLAND VEGETATION. FOLLOWING PILE INSTALLATION, TOP-SIDE CONSTRUCTION OF THE BOARDWALK WILL PROCEED SEQUENTIALLY ACROSS THE POND.

10. PILINGS ASSOCIATED WITH THE MATTIE KELLY PARK BOARDWALK BUMPOUTS WILL BE INSTALLED BY [A COMBINATION OF] JETTING AND/OR IMPACT HAMMER. CONTRACTOR TO UTILIZE SILT FENCES TO AVOID ALL UNPERMITTED IMPACTS TO WETLAND VEGETATION.

11. FOLLOWING PILE INSTALLATION, TOP-SIDE CONSTRUCTION ACTIVITIES WILL BE PERFORMED IN A SEQUENTIAL FASHION, STARTING WITH INSTALLATION OF DECK BOARDS, FOLLOWED BY HANDRAILS (IF APPLICABLE), AND THEN ANY AUXILLARY STRUCTURES SUCH AS THE SHADE STRUCTURES, SIGNAGE, OR THE ADA -ACCESSIBLE PADDLECRAFT LAUNCHING/LANDING FACILITY.

12. FOR ANY OF THE PROPOSED PIERS WITHIN JOES' BAYOU, TOP-SIDE CONSTRUCTION AND/OR REPAIR WILL START ON LAND AND PROCEED TO THE SEAWARD MOST POINT OF THE STRUCTURE. TOP-SIDE CONSTRUCTION OF THE POND BOARDWALK WILL PROCEED SEQUENTIALLY ACROSS THE POND. TOP-SIDE RECONSTRUCTION AND ENHANCEMENT ACTIVITIES ASSOCIATED WITH THE MATTIE KELLY PARK BOARDWALK WILL START IN THE PARKING LOT(S) AND PROCEED INTO THE WETLAND.

GENERAL SHEET PILE NOTES

1. SHEET PILE INSTALLATION SHALL BE CONDUCTED VIA A COMBINATION OF LAND-BASED AND WATER-BASED METHODS. IF WORK MUST BE CONDUCTED IN THE NEARSHORE, CONTRACTOR MAY USE LOW-PRESSURE TRACK EQUIPMENT TO ACCESS SHALLOW DEPTHS.

2. SHEET PILES WILL BE INSTALLED BY A COMBINATION OF JETTING AND IMPACT HAMMER. CONTRACTOR TO UTILIZE TURBIDITY CURTAINS TO AVOID ALL IMPACTS TO AQUATIC VEGETATION. TURBIDITY CURTAINS SHALL BE SITUATED AND ANCHORED IN SUCH A WAY TO AVOID IMPACTS TO SEAGRASS.

3. SHEET PILES WILL BE INSTALLED AT VARIOUS LOCATIONS AROUND THE PROJECT SITE, SOME OF WHICH WILL BE TEMPORARY IN NATURE.

   a. THE PERMANANENT SHEET PILE WALLS ARE INTENDED TO PROTECT THE PROPOSED STRUCTURES, MITIGATE EFFECTS OF SEA LEVEL RISE, AND INCREASE STORM RESILIENCY.

   b. THE TEMPORARY SHEET PILE WALLS ARE INTENDED TO FORM A COFFERDAM AROUND THE PROPOSED BOAT RAMPS FOR DEWATERING. FOLLOWING COMPLETION OF THE EXCAVATION AND CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE CONCRETE BOAT RAMPS, THE TEMPORARY COFFERDAM SHALL BE REMOVED.

4. SHEET PILE WALLS WILL BE INSTALLED IN VARIOUS CONFIGURATIONS: A SHORE-PARALLEL SEAWALL WITH A RETURN WALL, A SHORE PERPENDICULAR GROIN, AND A TEMPORARY COFFERDAM SURROUNDING THE PROPOSED BOAT RAMP.

   a. SHEET PILES WILL EITHER BE VINYL OR STEEL, DEPENDING ON CONTRACTOR PREFERENCE, AND WILL COMPRISE ONLY NON-LEACHING MATERIALS.

   b. IN LOCATIONS WHERE PROPOSED SHEET PILES ARE INTENDED TO BE USED AS A SEAWALL OR GROIN, A CONCRETE CAP WILL BE INCORPORATED.

   c. THE NEW SEAWALL WILL BE INSTALLED A MAXIMUM OF 24 IN FROM THE EXISTING SEAWALL (ON-CENTER) WITH AN ELEVATION OF +5 FT (NAVD88) ROUGHLY 4 FT TO 5 FT ABOVE THE WATER'S SURFACE DURING NORMAL CONDITIONS. RIPRAP WILL BE INCORPORATED ALONG THE SEAWARD SIDE FOR USE AS TOE-PROTECTION.

   d. THE GROIN WILL EXTEND FROM THE EDGE OF THE BOAT RAMP PARKING LOT OUT TO THE SEAWARD-MOST LIMITS OF DREDGING. THE GROIN WILL HAVE AN ELEVATION OF +3.5 FT (NAVD88), ROUGHLY 3 FT TO 3.5 FT ABOVE THE WATER'S SURFACE DURING NORMAL CONDITIONS. IT WILL FORM THE SUPPORT FOR MUCH OF THE NORTHERN SIDE OF THE LARGE FIXED TIMBER PIER ON THE NORTH EDGE OF THE BOAT RAMP FACILITY. RIPRAP WILL BE INCORPORATED ALONG EITHER SIDE OF THE GROIN FOR USE AS TOE-PROTECTION.

   e. THE TEMPORARY COFFERDAM WILL HAVE AN ELEVATION OF +4 FT (NAVD 88) OR GREATER WITH AN EMBEDMENT DEPTH OF AT LEAST 16 FT.

   f. THE SEAWALL WILL LOCATE A MAXIMUM OF 2 FT FROM THE MEAN HIGH-WATER LINE.

   g. THE GROIN WILL LOCATE A MAXIMUM OF 75 FT FROM THE MEAN HIGH-WATER LINE.

   h. THE TEMPORARY COFFERDAM WILL LOCATE A MAXIMUM OF 77 FT FROM THE MEAN HIGH-WATER LINE.

   i. ONCE CONSTRUCTION ASSOCIATED WITH THE BOAT RAMP HAS BEEN COMPLETED, THE TEMPORARY COFFERDAM WILL BE REMOVED.

4. THE EXACT LOCATION OF SHEET PILE WALLS ARE SUBJECT TO ALTERATION DURING CONSTRUCTION AND WILL BE BASED ON FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. INSTALLATION ON OR OVER SEAGRASS OR SALT MARSH WILL BE AVOIDED AT ALL TIMES.

5. STRUCTURE ELEVATIONS AND CONSTRUCTION MATERIALS ARE SUBJECT TO CHANGE IN THE FINAL DESIGN. SHEET PILE EMBEDMENT AND DIMENSIONS WILL BE DETERMINED DURING FINAL DESIGN.

6. A MINIMUM 3-FT BUFFER WILL BE MAINTAINED BETWEEN ANY NEW SHEET PILES AND ANY SEAGRASS IDENTIFIED AT THE TIME OF CONSTRUCTION.

7. DURING COFFERDAM INSTALLATION AND SUBSEQUENT DEWATERING ACTIVITIES, OBSERVERS WILL ENSURE LISTED SPECIES DO NOT BECOME TRAPPED. SHOULD ANY SPECIES BE IDENTIFIED WITHIN THE AREA TO BE DEWATERED, CONSTRUCTION ACTIVITIES WILL CEASE UNTIL THE LISTED SPECIES HAS BEEN ALLOWED TO LEAVE ON ITS OWN ACCORD. INSTALLATION OF TURBIDITY CURTAINS PRIOR TO DEWATERING ACTIVITES MAY BE BENEFICIAL TO ENSURE NO LISTED SPECIES ENTER THE AREA WHILE DEWATERING IN PROGRESS.

GENERAL BOAT RAMP NOTES

1. INSTALLATION OF THE REPLACEMENT BOAT RAMP WILL GENERALLY BE LAND-BASED AND WILL PROCEED FOLLOWING INSTALLATION OF THE TEMPORARY COFFERDAM.

2. THE FOUR-LANE BOAT RAMP SHALL CONSIST OF TWO 10-IN THICK CONCRETE SLABS OVERTOP AN 24-IN THICK LAYER OF PEA GRAVEL, WITH RIP RAP TO BE PLACED BETWEEN AND ALONG EACH SIDE OF THE CONCRETE SLABS TO PROTECT THE RAMP FROM BOAT AND/OR WAVE INDUCED EROSION.

   a. FOLLOWING DEMOLITION OF THE EXISTING BOAT RAMP AND INSTALLATION OF THE TEMPORARY COFFERDAM, UNSUITABALE MATERIALS WILL BE EXCAVATED AND REPLACED WITH CLEAN SAND FILL AS NEEDED TO SUPPORT THE NEW BOAT RAMP.

   b. GEOTEXTILE FABRIC WILL THEN BE PLACED BOTH BELOW AND ON TOP OF THE LAYER OF PEA GRAVEL.

   c. ONCE THE PEA GRAVEL AND GEOTEXTILE FABRIC UNDERLAYMENT HAS BEEN INSTALLED, CONCRETE WILL BE POURED AND FORMED IN PLACE. AFTER THE CONCRETE HAS SUFFICIENTLY FORMED, THE TEMPORARY COFFERDAM WILL BE REMOVED.

   d. THE TOP OF THE BOAT RAMP SHALL COMPRISE A 5 FT APRON AT AN ELEVATION OF +5 FT (NAVD 88), ROUGHLY 4 FT TO 5 FT ABOVE THE WATER'S SURFACE DURING NORMAL CONDITIONS, AND WILL GRADE DOWN TO -5 FT (NAVD 88), ROUGHLY 5 FT TO 6 FT BELOW THE WATER'S SURFACE DURING NORMAL CONDITIONS.

   e. THE CONCRETE WILL COMPRISE NON-LEACHING MARINE GRADE CONCRETE SUITABLE FOR BOAT RAMP CONSTRUCTION.

   f. FOLLOWING INSTALLATION OF THE BOAT RAMP, TOE PROTECTION WILL BE INSTALLED BETWEEN THE TWO RAMPS, AND 5 FT FROM THE EDGES OF THE IN-WATER PORTION OF THE RAMP WHERE THERE IS NOT ALREADY RIPRAP PROPOSED (I.E. THE GROIN OR SHORE PROTECTION).

GENERAL SIGN AND BUOY NOTES

1. EDUCATIONAL SIGNS WILL BE INCORPORATED AS APPROPRIATE AND WILL INCLUDE ALL SIGNS AS REQUIRED BY THE FLORIDA FISH AND WILDLIFE COMMISSION AND THE NATIONAL MARINE FISHERIES SERVICE.

2. SIGNS MAY BE POSTED ON PILINGS OR OTHERWISE AFFIXED TO PIERS AND BOARDWALKS, ON BUOYS, OR ATTACHED TO POSTS WITHIN THE UPLANDS.

3. SIGNS WILL BE PLACED IN PROMINENT LOCATIONS FOR MAXIMUM VISIBILITY. EACH SIGN MAY BE REPLICATED MULTIPLE TIMES AND PLACED IN MULTIPLE LOCATIONS DUE TO THE LARGE SIZE OF THE PROJECT AREA.

4. SIGNAGE RELATED TO LISTED SPECIES WILL NOT FACE THE WATER, NOR WILL THEY BE ATTACHED TO PILINGS OR NAVIGATIONAL MARKERS IN THE WATER. ONE EXCEPTION TO SIGNS RELATED TO LISTED SPECIES FACING THE WATER ARE FOR TEMPORARY AWARENESS SIGNS DURING IN-WATER WORK, SUCH AS THE "CAUTION BOATERS" OR "IDLE SPEED WHILE IN WORK AREA" SIGNS.

5. PERMANENT BUOYS WILL BE COMPRISED OF A SALTWATER GRADE SPAR BUOY ANCHORED TO THE SEAFLOOR VIA A SALTWATER RESITANT BUNGEE AND MARINE GRADE CHAINS THAT ARE ATTACHED TO A 500 POUND CONCRETE ANCHOR.

6. TEMPORARY BUOYS WILL BE YELLOW AND WILL BE COMPRISED OF INFLATABLE VINYL BUOYS OR SPHERICAL FOAM BUOYS ANCHORED TO THE SEAFLOOR VIA A TAUT POLY/NYLON ROPE AND/OR MARINE GRADE CHAINS THAT ARE ATTACHED TO AN EASILY REMOVABLE SMALL CONCRETE OR STEEL ANCHOR.

7. INFORMATION PRINTED ONTO THE PERMANENT BUOYS WILL BE REPLICATED ON BOTH SIDES FOR MAXIMUM VISIBILITY.

8. ALL BUOYS WILL DEPLOYED IN AREAS OF UNVEGETATED SAND BOTTOM.

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FIGURE 3
GENERAL NOTES
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4815

PRELIMINARY DRAWINGS; THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

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9. THE PERMANENT BUOYS WILL DELINEATE THE SWIMMING BEACH AND PADDLECRAFT LAUNCH AREA AS WELL AS THE NO ANCHORING ZONE ASSOCIATED WITH THE SEAGRASS RECRUITMENT AND PROTECTION AREAS. THE INTENT OF THE PERMANENT BUOYS ARE TO RESTRICT ACCESS TO MOTORIZED VESSELS.

10. TEMPORARY MARKER BUOYS WILL DELINEATE THE PROPOSED REEF AREAS AND WILL BE REMOVED FOLLOWING DEPLOYMENT OF REEF MATERIALS.

11. BUOYS WILL BE DEPLOYED ANCHOR-FIRST OFF THE BACK OF A BOAT OR OFF THE SIDE OF A BARGE TO ENSURE THEY ARE NOT PLACED OVER EXISTING SEAGRASS. QUALITY CONTROL DIVES SHALL BE PERFORMED AS NECESSARY TO ENSURE PROPER PLACEMENT OF THE BUOY'S ANCHOR.

12. ANY BUOYS TO BE REMOVED SHALL BE REMOVED IN SUCH A WAY THAT ENSURES THE ANCHORS DO NO IMPACTS ADJACENT SEAGRASS BEDS.

13. BUOY LINES WILL INCORPORATE ONLY THAT LENGTH NECESSARY FOR THE BUOY TO EXTEND ABOVE THE SURFACE OF THE WATER DURING NORMAL CONDITIONS TO REDUCE THE POTENTIAL FOR ENTANGLEMENT ISSUES AND TO PREVENT POTENTIAL SEAGRASS IMPACTS FROM THE CHAIN DRAGGING ALONG THE SEAFLOOR.

14. ALL SIGNS AND/OR BUOYS WILL BE REPLACED WHEN FADED, DAMAGED OR OUTDATED.

GENERAL UPLAND FEATURE AND DREDGED MATERIAL MANAGEMENT NOTES

1. UPLAND AND STORMWATER IMPROVEMENTS ARE SHOWN IN HALFF UPLAND FEATURES AND STORMWATER DESIGN PERMIT DRAWINGS; GENERAL IMPROVEMENTS HAVE BEEN OUTLINED ON THESE DRAWINGS FOR REVIEWER UNDERSTANDING.

2. UPLAND IMPROVEMENTS THAT ARE IN THIS DRAWING SET INCLUDE MECHANICAL TRANSFER OF DREDGED MATERIALS TO A TEMPORARY DREDGED MATERIAL MANAGEMENT AREA (DMMA) IN THE UPLANDS AND FILLING IN AN UPLAND-CUT STORMWATER POND TO THE EXISTING GRADE. THE POND WILL BE FILLED WITH DREDGED MATERIALS AND CAPPED WITH CLEAN SAND FILL.

3. UPLAND IMPROVEMENTS PROPOSED FOR THE SITE THAT ARE SHOWN IN HALFF UPLAND FEATURES AND STORMWATER DESIGN PERMIT DRAWINGS INCLUDE A SERIES OF ADA-ACCESIBLE BOARDWALKS AND SIDEWALKS CONNECTING THE VARIOUS ASPECTS OF THE PROJECT AREA, PARKING LOT ENHANCEMENTS, STORMWATER ENHANCEMENTS, GRADING AND PLACEMENT OF SAND FILL ASSOCIATED WITH THE BEACH AREA, 5 PAVILIONS, AND A RESTROOM/EDUCATIONAL BUILDING.

4. CONSTRUCTION OF THE UPLAND FEATURES SHALL BE ENTIRELY LAND-BASED.

5. MECHANICALLY DREDGED MATERIAL SHALL BE PLACED WITHIN THE UPLANDS AND REGRADED ON-SITE.

6. THE TEMPORARY DMMA WILL INCLUDE STAKED HAY BALES, TURBIDITY CURTAINS, AND/OR OTHER BMPS AT ANY CONTROLLED OVERFLOW/DISCHARGE AREAS.

7. DREDGED MATERIAL WILL BE TRANSFERRED INTO THE DMMA VIA EXCAVATOR OR OTHER LAND-BASED METHOD. NO PERMANENT IMPACT TO WETLANDS OR SUBMERGED AQUATIC VEGETATION WILL RESULT FROM THIS TRANSFER OF MATERIALS.

8. PLANTING OF NATIVE UPLAND AND WETLAND PLANTS WILL BE INCORPORATED ACROSS THE PROJECT SITE FOLLOWING REMOVAL OF THE INVASIVE SPECIES FOUND ON SITE, PARTICULARLY AROUND THE LARGE STORMWATER POND.

9. THE EXACT LOCATION OF THE UPLAND FEATURES ARE SUBJECT TO ALTERATION DURING CONSTRUCTION AND WILL BE BASED ON FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. ALL WORK ASSOCIATED WITH THE UPLAND FEATURES WILL BE SITED IN THE UPLANDS.

GENERAL DREDGING NOTES

1. DREDGING WILL BE CONDUCTED AS NEEDED TO FACILITATE MOORING AND CONSTRUCTION IN THE VICINITY OF THE MOORING PIER AND BOAT RAMP FACILITY. DREDGE MATERIAL CONSISTS OF SAND WITH LESS THAN 10% FINES PASSING #200 SIEVE.

2. DREDGING WILL BE COMPLETED USING VARIOUS METHODS.

   a. WITHIN THE DEWATERING AREA ASSOCIATED WITH THE TEMPORARY COFFERDAM, MATERIALS WILL BE EXCAVATED VIA LAND-BASED EQUIPMENT AFTER THEY HAVE BEEN ALLOWED TO DEWATER.

   b. OUTSIDE THE DEWATERING AREA ASSOCIATED WITH THE TEMPORARY COFFERDAM, DREDGING SHALL BE WATER-BASED TO THE GREATEST EXTENT PRACTICAL. IF NEARSHORE WATER DEPTHS PRECLUDE WORK VESSEL ACCESS, CONTRACTOR MAY USE LOW-PRESSURE TRACK EQUIPMENT TO ACCESS SHALLOW DEPTHS. DREDGING WILL BE CONDUCTED VIA MECHANICAL MEANS.

   c. EXACT METHODOLOGIES WILL BE CONTRACTOR DEPENDENT, BUT MATERIAL WILL LIKELY BE PLACED ONTO A BARGE AND THEN TRANSFERRED TO THE UPLANDS.

   d. THE CONTRACTOR SHALL INSTALL HAY BALES, DOUBLE LINED SILT FENCES, OR OTHER TURBIDITY BARRIERS AROUND THE TEMPORARY DMMA AS REQUIRED TO MAINTAIN WATER QUALITY STANDARDS. MECHANICAL DREDGING WILL MINIMIZE POTENTIAL FOR RETURN WATER INTO THE BAYOU. SHOULD RETURN WATER BE INTRODUCED, THE CONTRACTOR WILL BE REQUIRED TO OBTAIN AN NPDES PERMIT.

   e. FOR ANY IN-WATER WORK, ALL DREDGING-RELATED VESSELS (E.G., BARGES, TUGS, ETC.) SHALL MAINTAIN AT LEAST 1 FT OF CLEAR DISTANCE BETWEEN THE LOWEST DRAFT OF THE VESSEL AND THE BOTTOM. NO SPUDDING IS ALLOWED OVER SEAGRASS.

3. WITHIN JOE'S BAYOU, DREDGING WILL BE CONDUCTED TO A MAXIMUM DEPTH OF -6 FT (NAVD88) AND WILL TIE INTO THE EXISTING GRADE ALONG THE SEAWARD EXTENT OF DREDGING. UP TO 1 FT OF ALLOWABLE OVERDREDGE WILL BE PERMITTED. DREDGING TO A DEPTH OF -6 FT WILL ALLOW FOR SAFE NAVIGATION BETWEEN THE PROPOSED BOAT RAMP FACILITY AND NEARBY GULF INTRACOASTAL WATERWAY (ICWW).

4. DREDGE ACTIVITES WILL USE ALL APPLICABLE BMPS. THE DMMA SITE CHARACTERISTICS INDICATE EXTREMELY ACCEPTABLE HIGH PERCOLATION (DEWATERING) RATES DUE TO SITE ELEVATIONS AND SITE SOILS (SAND). MATERIAL WILL BE SPREAD ONSITE.

5. FOLLOWING COMPLETION OF DREDGING, THE DREDGED MATERIALS WILL BE USED TO FILL THE HOLDING POND OR ELSE WILL BE REGRADED ONSITE.

6. DETAILS ON DREDGING/FILLING THE STORMWATER POND PROVIDED IN THE HALFF UPLAND FEATURES AND STORMWATER DESIGN PERMIT DRAWINGS AND THE STORMWATER MANAGEMENT ANALYSIS, HOWEVER ALL MATERIALS WILL BE TRANSPORTED VIA MECHANICAL AND/OR LAND-BASED MEANS AS DESCRIBED ABOVE.

EXISTING POND SHORELINE LENGTH: 1,068 FT
PROPOSED POND SHORLEINE LENGTH: 860 FT

GENERAL PRESERVATION, RESTORATION, ENHACEMENT, AND CREATION NOTES

1. THE PROJECT INCORPORATES PRESERVATION, RESTORATION, ENHANCEMENT, AND CREATION OF NATURAL HABITATS FOUND ON-SITE.

2. PRESERVATION: BECAUSE OF THE ESTABLISHMENT OF THE NO ANCHORING ZONE, A LARGE SEAGRASS PRESERVATION AREA HAS BEEN INCORPORATED INTO THIS PROJECT. RESTRICTION OF MOTORIZED VESSELS WILL REDUCE THE LIKELIHOOD OF ANY ADDITIONAL PROP SCARS OR ANCHORS SCARS TO THE EXISTING SEAGRASS BEDS.

   a. TWO EXISTING MOORING BUOYS SHALL BE REMOVED FROM THE NO ANCHORING ZONE. BUOYS SHALL BE REMOVED IN SUCH A WAY THAT ENSURES THE ANCHORS DO NO IMPACTS ADJACENT SEAGRASS BEDS.

   b. EDUCATIONAL SIGNS WILL ALSO BE INCORPORATED THAT REQUEST THE RECREATING PUBLIC TO AVOID AREAS OF SEAGRASS.

3. RESTORATION: SEAGRASS PROP/ANCHOR SCAR RESTORATION OF EXISTING SEAGRASS BEDS FOUND WITHIN THE SEAGRASS PRESERVATION AREA WILL PROVIDE ESSENTIAL HABITAT FOR LISTED SPECIES AND COMMERCIALLY RELEVANT SPECIES. SHORELINE AND UNCONSOLIDATED SAND BOTTOM RESTORATION WILL ALSO BE INCORPORATED.

   a. RESTORATION OF UNCONSOLIDATED SAND BOTTOM WILL OCCUR WHERE EXISTING RIPRAP IS TO BE REMOVED. THIS INCLUDES AREAS DENOTED WITHIN THESE DRAWINGS AS NATURAL EMBAYMENTS AS WELL AS THOSE AREAS WHERE EXISTING RIPRAP IS TO BE REMOVED/REGRADED TO THE PROPOSED SPECIFICATIONS.

   b. NATIVE SALT-TOLERANT SPECIES MAY BE PLANTED AS PART OF SHORELINE RESTORATION ACTIVITIES. SPECIES TO BE PLANTED MAY INCLUDE ONE OR MORE OF THE FOLLOWING: SMOOTH CORDGRASS (*SPARTINA ALTERNIFLORA*), NEEDLERUSH (*JUNCUS ROEMERIANUS*), SALTMEADOW CORDGRASS (*SPARTINA PATENS*), GIANT CORDGRASS (*SPOROBOLUS CYNOSUROIDES*), SALT GRASS (*DISTICHLIS SPICATA*), SALTWORT (*BATIS MARITIMA*), AND BLUE FLAG (*IRIS VIRGINICA*). ALL PLANTS WILL BE SOURCED FROM A CERTIFIED NURSERY.

   c. RESTORATION ACTIVITIES MAY ALSO INCLUDE FILLING PROP/ANCHOR SCARS TO THE ADJACENT ELEVATION WITH CLEAN SAND FILL TO RESTORE THESE AREAS TO THE PROPER ELEVATION AND ALLOW FOR SAV TO RECRUIT INTO THE PREVIOUSLY DISTURBED LOCATIONS.

4. ENHANCEMENT: ESTABLISHMENT OF A SEAGRASS RECRUITMENT AREA WITHIN JOES' BAYOU, INVASIVE/EXOTIC/NUISANCE SPECIES MANAGEMENT ACROSS THE PROJECT SITE, AND LITTORAL ZONE ENHANCEMENT WITHIN THE LARGE STORMWATER POND WILL IMPROVE THE VARIOUS WETLAND AND SURFACE WATER HABITATS WITHIN WHICH THESE ACTIVITIES ARE LOCATED.

   a. THE CONSTRUCTION OF THE BREAKWATERS AND GROIN ENHANCES THE SUITABLE SAV HABIT IN THE LEE OF THESE FEATURES BY REDUCING WAVE ENERGY. THE AREA BEHIND THESE STRUCTURES WILL SERVE AS A SEAGRASS RECRUITMENT AREA WHERE EXISTING SAV BEDS CAN EXPAND/THICKEN AND ESTABLISH ADDITIONAL SAV BEDS.

   b. INVASIVE/EXOTIC/NUISANCE SPECIES MANAGEMENT, AS DETAILED BELOW, WILL ENHANCE THE SURROUNDING NATURAL HABITATS.

   c. FOLLOWING REMOVAL OF EXOTIC SPECIES, THE 1 TO 3 FT CONTOURS OF THE STORMWATER POND HABITAT BUFFER ZONE WILL BE PLANTED WITH SUITABLE NATIVE WETLAND PLANT SPECIES 3 FT ON CENTER. PLANT SPECIES CONTOUR ZONE PLACEMENT WILL BE DEPENDENT ON SPECIES DEPTH TOLERANCE AND APPROPRIATE UDSA PLANT HARDINESS ZONE RANGE.

      i. WITHIN ZONE 1 (EL. 2.25 - 3 FT), PLANTS WILL INCLUDE MUHLY GRASS (MUHLENBERGIA CAPILLARIS), FAKAHATCHEE GRASS (TRIPSACUM DACTYLOIDES), SAND CORD GRASS (SPARTINA BAKERI), AND FLORIDA GAMAGRASS (TRIPSACUM FLORIDANUM).

      ii. WITHIN ZONE 2 (EL. 1.50 - 2.25 FT), PLANTS WILL INCLUDE ARROWHEAD (SAGITTARIA LATIFOLIA), BLUE FLAG IRIS (IRIS VIRGINICA), SWAMP LILY (CRINUM AMERICANUM), DUCK POTATO (SAGITTARIA LANCIFOLIA), GOLDEN CANNA (CANNA FLACIDA), AND PICKERELWEED (PONTEDERIA CORDATA)

      iii. WITHIN ZONE 3 (EL. 1.00 - 1.50 FT), PLANTS WILL INCLUDE PICKERELWEED (PONTEDERIA CORDATA), FRAGRANT WATER LILY (NYMPHAEA ODORATA), AND SPIKERUSH (ELEOCHARIS CELLULOSA).

   D. A FOUNTAIN OR SUB-SURFACE BUBBLER WILL ALSO BE ADDED TO THE POND TO ENHANCE DISSOLVED OXYGEN LEVELS AND PREVENT STRATIFICATION, REDUCING THE CHANCES OF THE SYSTEM BECOMING HYPOXIC.

5. CREATION: WITHIN THE NON-ANCHORING ZONE, BENTHIC DEPRESSIONS GREATER THAN 7 FT DEEP HAVE BEEN DESIGNATED FOR THE CREATION OF REEF HABITAT. THE CREATION OF REEF HABITAT INCREASES THE AREA OF ESSENTIAL FISH HABITAT (EFH) WITHIN JOE'S BAYOU. PLACEMENT OF THE REEF HABITAT AT THIS DEPTH REDUCES POSSIBLE VESSEL COLLISIONS.

   a. REEF MATERIALS TO CONSIST OF REPURPOSED OR PRE-FABRICATED CLEAN CONCRETE OR ROCK, CLEAN STEEL, BOAT HULLS, OR OTHER CLEAN, HEAVY GAUGE STEEL PRODUCTS HAVING A THICKNESS OF 1/4" OR GREATER, A MIXTURE OF CLEAN CONCRETE AND HEAVY GAUGE STEEL, OR OTHER MATERIALS AS DEFINED UNDER F.A.C. 62-300.600. THE MATERIAL SHALL BE OF SUFFICIENT SIZE AND WEIGHT TO REMAIN STABLE.

   b. MAX REEF HEIGHT WILL BE LESS THAN HALF THE DISTANCE FROM THE BOTTOM TO THE WATER SURFACE. A 5 FT MINIMUM AUTHORIZED DEPTH SHALL BE MAINTAINED AT ALL TIMES.

   c. A GEOTEXTILE AND GEOGRID FOUNDATION WILL BE PLACED WITHIN THE AREAS DESIGNATED IN THESE DRAWINGS AS REEF HABITAT. RIPRAP AND/OR PRE-FABRICATED MODULES WILL THEN BE DEPLOYED WITHIN THESE AREAS TO FORM THE PROPOSED PATCH REEF SITES.

   c. TEMPORARY MARKER BUOYS WILL BE SECURED ALONG THE PERIMETER OF THE PATCH REEF SITES PRIOR TO MATERIAL PLACEMENT TO DEFINE THE DROP AREA AND TO ENSURE ACCURATE PLACEMENT WITHIN THE APPROVED SITE. BUOYS SHALL BE REMOVED FOLLOWING REEF DEPLOYMENT.

   d. QUALITY CONTROL DIVES SHALL BE PERFORMED AS NECESSARY TO ENSURE PROPER MATERIAL PLACEMENT AND RELIEF.

INVASIVE / EXOTIC / NUISANCE SPECIES MANAGMENT

1. THREE (3) CATEGORY I INVASIVE/EXOTIC SPECIES WERE IDENTIFIED WITHIN THE PROJECT AREA DURING THE 2021 NATURAL RESOURCE SURVEY INCLUDING CHINESE TALLOW (*TRIADICA SEBIFERA*), AIR POTATO (*DIOSCOREA BULBIFERA*), AND TORPEDO GRASS (*PANICUM REPENS*). MANAGEMENT IS PROPOSED FOR EACH OF THESE SPECIES.

2. FIVE (5) NON-INVASIVE EXOTIC SPECIES WERE ALSO IDENTIFIED WITHIN THE PROJECT AREA INCLUDING CALLERY PEAR (*PYRUS CALLERYANA*), GIANT REED (*ARUNDO DONAX*), BERMUDA GRASS (*CYNODON DACTYLON*), STICKY NIGHTSHADE (*SOLANUM*

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FIGURE 4
GENERAL NOTES
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4815

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SISYMBRIIFOLIUM), AND PRICKLY FANPETAL (*SIDA SPINOSA*). OF THESE MANAGEMENT ACTIVITIES ARE PROPOSED FOR GIANT REED, STICKY NIGHTSHADE, AND PRICKLY FANPETAL. REMOVAL OF CALLERY PEAR AND BERMUDA GRASS IS NOT PROPOSED.

3. ONE (1) NUISANCE SPECIES, CATTAIL (*TYPHA* SP.) WAS IDENTIFIED WITHIN THE PROJECT AREA. MANAGEMENT FOR THIS SPECIES IS PROPOSED.

4. FOR CHINESE TALLOW FOUND ALONG THE WETLAND BOUNDARY, MANAGEMENT ACTIVITIES WILL INCLUDE MECHANICAL REMOVAL USING CHAIN SAWS OR HAND-PULLING SEEDLINGS AND SAPLINGS FOLLOWED BY APPLICATION OF A CHEMICAL HERBICIDE SUCH AS TRICLOPYRAMINE, TRICLOPYR ESTER, OR AMINOPYRALID TO THE TOP OF THE CUT STUMP. FOR THE DENSE AREA OF CHINESE TALLOW LOCATED IN THE SOUTHWEST CORNER OF THE RESTORATION AREA, MANAGEMENT WILL INCLUDE CUTTING THE TRUNK OF THE CHINESE TALLOW WITH A MATCHET (OR OTHER SHARP BLADE) FOLLOWED BY THE APPLICATION OF AN IMAZAPYR OR IMAZAMOX CONTAINING COMMERCIAL HERBICIDE SUCH AS ARSENAL, HABITAT, OR CLEARCAST.

5. FOR AIR POTATO, MANAGEMENT INCLUDES MECHANICAL REMOVAL OF THE VINES AND BULBILS.

6. FOR TORPEDO GRASS, MANAGEMENT ACTIVITIES WILL INCLUDE REPEATED CHEMICAL TREATMENTS USING POST-EMERGENCE HERBICIDES SUCH AS GLYPHOSATE AND IMAZAPYR IN THE SPRING, SUMMER, AND FALL UNTIL THE SPECIES IS ERADICATED FROM THE LANDSCAPE.

7. FOR GIANT REED, MECHANICAL TREATMENT OF THIS EXOTIC SPECIES REQUIRES FREQUENT AND REPEATED CUTTING OF THE STALKS TO GROUND LEVEL. CHEMICAL TREATMENT REQUIRES THE APPLICATION OF GLYPHOSATE, ARSENAL, OR A COMBINATION OF THE TWO DURING THE MONTHS OF SEPTEMBER OR OCTOBER. PROPER APPLICATION SHOULD WET ALL THE EXPOSED LEAVES OF THE PLANT. REPEATED MECHANICAL CUTTING AND CHEMICAL TREATMENT CYCLES MAY BE REQUIRED TO ACHIEVE THE DESIRED OUTCOME.

8. STICKY NIGHTSHADE AND PRICKLY FANPETALS ARE LOCATED IN PORTIONS OF THE UPLANDS THAT ARE SLATED FOR CLEARING AND REPURPOSING AND WILL BE ERADICATED DURING THIS PROCESS.

9. FOR CATTAILS, MANAGEMENT ACTIVITIES WILL INCLUDE REPEATED CHEMICAL FOLIAR TREATMENT WITH GLYPHOSATE IN THE SPRING, SUMMER, AND FALL UNTIL THE SPECIES IS ERADICATED FROM THE LANDSCAPE.

10. THE PROPER APPLICATION RATE AND SAFETY PRECAUTIONS FOR HERBICIDES, AS RECOMMENDED BY THE MANUFACTURER, NEED TO BE STRICTLY FOLLOWED TO PREVENT ENVIRONMENTAL DAMAGE AND TO ENSURE THE PROPER EFFICACY OF THE TREATMENT. THE TREATMENT MUST BE CONDUCTED BY A FLORIDA-CERTIFIED PESTICIDE APPLICATOR. FOLLOW-UP TREATMENTS SHOULD BE CONDUCTED THROUGHOUT PROJECT CONSTRUCTION AS NEEDED.

11. DURING CONSTRUCTION ACTIVITIES, EQUIPMENT AND VEHICLES WILL BE WASHED AND CLEANED TO ELIMINATE OR REDUCE INTRODUCTION OF NEW WEED SPECIES VIA ANTHROPOGENIC VECTORS ASSOCIATED WITH THIS PROJECT.

SOVEREIGN SUBMERGED LANDS:

1. THE BUOYS SHALL BE AUTHORIZED UNDER CONSENT BY RULE PER SECTION 403.813(1)(K), F.S. WHICH ALLOWS FOR THE INSTALLATION OF AIDS TO NAVIGATION AND BUOYS ASSOCIATED WITH SUCH AIDS, PROVIDED THE DEVICES ARE MARKED PURSUANT TO S. 327.40.

2. THE DOCKS, BOAT RAMPS, AND DREDGING SHALL BE AUTHORIZED UNDER A LETTER OF CONSENT FOR PUBLIC DOCKS OR PIERS THAT ARE EXEMPT FROM PERMIT REQUIREMENTS UNDER SECTION 403.813(1), F.S.; PUBLIC BOAT RAMPS; PUBLIC CHANNELS; OR PUBLIC SWIMMING AREAS, AS ALL SUCH STRUCTURES OR ACTIVITIES ARE OWNED AND OPERATED BY GOVERNMENTAL ENTITIES AND ANY REVENUES COLLECTED WILL BE USED SOLELY FOR OPERATION AND MAINTENANCE OF THE JOE'S BAYOU RECREATION AREA .

3. THE BREAKWATERS, REVETMENTS, AND SHORELINE RESTORATION ACTIVITIES SHALL BE AUTHORIZED UNDER A LETTER OF CONSENT FOR HABITAT RESTORATION.

4. THE REEF HABITAT CREATION AREAS SHALL BE AUTHORIZED UNDER A LETTER OF CONSENT FOR ARTIFICIAL REEFS OR FISH ATTRACTORS THAT ARE CONSTRUCTED FOR PUBLIC USE.

5. IF REQUIRED, A SOVEREIGN SUBMERGED LANDS SKETCH SHALL BE SUBMITTED FOLLOWING FDEP VERIFICATION OF THE AREA TO BE AUTHORIZED VIA EASEMENT.

6. SHORELINE LENGTH:
EXISTING SHORELINE: 2,052 FT
PROPOSED SHORELINE: 2,053 FT

TIDAL DATUM

MLLW		NAVD 1988	
TIDAL DATUM REFERENCE:		TIDAL DATUM REFERENCE:	
MHHW	0.61'	MHHW	0.73'
MHW	0.60'	MHW	0.72'
MSL	0.28'	MSL	0.4'
MLW	0.01'	MLW	0.13'
MLLW	0.00'	MLLW	0.12'
NAVD88	-0.12'	NAVD88	0.00'

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FIGURE 5
GENERAL NOTES
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
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PROPOSED SEGMENTED BREAKWATER PLAN

1. NUMBER OF INDIVIDUAL STONE BREAKWATERS: 4
2. MAXIMUM BREAKWATER DISTANCE FROM THE MHWL IS 265 FT
3. SLOPE OF BREAKWATERS: VARIES (1.5H:1V TO 2H:1V)
4. TOTAL LENGTH OF BREAKWATERS: 420 FT
5. TOTAL AREA OF BREAKWATERS: 8,760 SF / 0.20 AC
   a. ABOVE MHWL: 0 SF / 0 AC
   b. BELOW MHWL: 8,760 SF / 0.20 AC
6. TOTAL BREAKWATER VOLUME: 1,300 CY
7. ARMOR STONE SIZE (D50 / W50): 1.5 FT / 525 LBS
8. BEDDING AND CHINKING STONE SIZE (D50 / W50): 0.5 FT / 20 LBS

PROPOSED RIPRAP PLAN

1. NUMBER OF INDIVIDUAL SHORE PROTECTION FEATURES: 4
   a. MAXIMUM SHORE PROTECTION FEATURE DISTANCE FROM MHWL: 20 FT
   b. SLOPE OF SHORE PROTECTION FEATURES: VARIES (1.5H:1V TO 2H:1V)
   c. TOTAL LENGTH OF SHORE PROTECTION FEATURES: 742 FT
   d. TOTAL AREA SHORE PROTECTION FEATURES: 10,150 SF / 0.23 AC
      i. ABOVE MHWL: 5,478 SF / 0.12 AC
      ii. BELOW MHWL: 4,672 SF / 0.11 AC
   e. TOTAL VOLUME SHORE PROTECTION FEATURES: 900 CY
2. NUMBER OF INDIVIDUAL TOE PROTECTION FEATURES: 3
   a. MAXIMUM TOE PROTECTION FEATURE DISTANCE FROM MHWL: 70 FT
   b. SLOPE OF TOE PROTECTION FEATURES: VARIES (1.5H:1V TO 2H:1V)
   c. TOTAL LENGTH OF TOE PROTECTION FEATURES: 925 FT
      i. SEAWALL TOE PROTECTION: 361 FT
      ii. GROIN TOE PROTECTION: 318 FT
      iii. BOAT RAMP TOE PROTECTION: 246 FT
   c. TOTAL LENGTH OF TOE PROTECTION FEATURES (BELOW MHWL): 585 FT
      i. SEAWALL TOE PROTECTION: 200 FT
      ii. GROIN TOE PROTECTION: 145 FT
      iii. BOAT RAMP TOE PROTECTION: 240 FT
   d. TOTAL AREA TOE PROTECTION FEATURES: 6,995 SF / 0.16 AC
      i. SEAWALL TOE PROTECTION: 2,240 SF / 0.05 AC
      ii. GROIN TOE PROTECTION: 2,740 SF / 0.06 AC
      iii. BOAT RAMP TOE PROTECTION: 2,015 SF / 0.05 AC
   d. TOTAL AREA TOE PROTECTION FEATURES (BELOW MHWL): 3,635 SF / 0.08 AC
      i. SEAWALL TOE PROTECTION: 560 SF / 0.01 AC
      ii. GROIN TOE PROTECTION: 1,435 SF / 0.03 AC
      iii. BOAT RAMP TOE PROTECTION: 1,640 SF / 0.04 AC
   e. TOTAL VOLUME TOE PROTECTION FEATURES (BELOW MHWL): 400 CY
3. NUMBER OF SPLASH PADS:2
   a. TOTAL AREA SPLASHPADS: 967 SF/0.02 AC
   b. TOTAL VOLUME SPLASH PADS: 72 CY
4. ARMOR STONE SIZE (D50 / W50): 1.5 FT / 525 LBS
5. CHINKING STONE SIZE (D50 / W50): 0.5 FT / 20 LBS

PROPOSED PILE-SUPPORTED STRUCTURE PLAN

1. MOORING PIER
   a. TOTAL NUMBER OF FLEXIBLE MOORING SLIPS: 1
   b. MAXIMUM NUMBER OF VESSELS MOORED AT ONE TIME: 5
   c. TOTAL NUMBER OF PILES: 40
      i. PILE TYPE: TIMBER
      ii. PILE SIZE: 12” DIA.
   d. TOTAL LENGTH OF MOORING PIER: 182 FT
      i. ABOVE MHWL: 15 FT
      ii. BELOW MHWL: 167 FT
   e. TOTAL AREA OF MOORING PIER: 1,571 SF / 0.04 AC
      i. ABOVE MHWL: 100 SF / 0.01 AC
      ii. BELOW MHWL: 1,471 SF / 0.03 AC
   f. WIDTH OF MOORING PIER: 7 FT – 8 FT
2. BOATING FACILITY
   a. TOTAL NUMBER OF BOAT RAMPS: 2
   b. TOTAL NUMBER OF BOAT LANES: 4
   c. TOTAL NUMBER OF FLEXIBLE MOORING SLIPS: 6
   d. MAXIMUM NUMBER OF VESSELS MOORED AT ONE TIME: 21
   e. TOTAL NUMBER OF PILES: 85
      i. PILE TYPE: TIMBER
      ii. PILE SIZE: 12” DIA.
   f. TOTAL NUMBER OF FIXED TIMBER PIERS: 3
   g. TOTAL LENGTH OF FIXED TIMBER PIERS: 400 FT
      i. ABOVE MHWL: 112 FT
      ii. BELOW MHWL: 288 FT
   h. TOTAL AREA FIXED TIMBER PIERS: 3,590 SF / 0.08 AC
      i. ABOVE MHWL: 885 SF / 0.02 AC
      ii. BELOW MHWL: 2,705 SF / 0.06 AC
   i. WIDTH OF FIXED TIMBER PIERS: 7 FT – 8 FT
   j. TOTAL NUMBER OF FLOATING DOCKS: 1
   k. TOTAL LENGTH OF FLOATING DOCK: 69 FT
      i. ABOVE MHWL: 0 FT
      ii. BELOW MHWL: 69 FT
   l. TOTAL AREA OF FLOATING DOCK: 685 SF / 0.02 AC
      i. ABOVE MHWL: 0 SF / 0 AC
      ii. BELOW MHWL: 685 SF / 0.02 AC
   m. WIDTH OF FLOATING DOCK: 10 FT
   n. TOTAL NUMBER OF ALUMINUM GANGWAYS: 1
   o. TOTAL LENGTH OF ALUMINUM GANGWAY: 30 FT
   p. WIDTH OF ALUMINUM GANGWAY: 5 FT
3. ADA PADDLECRAFT LAUNCH AREA
   a. ADA PADDLECRAFT LAUNCH AREA STRUCTURES LOCATED ENTIRELY ABOVE THE EXISTING MHWL.
   b. TOTAL NUMBER OF TIMBER DOCKS: 1
      i. TOTAL LENGTH OF PADDLECRAFT TIMBER DOCK: 21 FT
      ii. TOTAL AREA OF PADDLECRAFT TIMBER DOCK: 215 SF / 0.01 AC
      iii. TOTAL WIDTH OF PADDLECRAFT TIMBER DOCK: 10 FT
      iv. TOTAL NUMBER OF PILES: 6
         (1) PILE TYPE: TIMBER
         (2) PILE SIZE: 12” DIA.
   c. TOTAL NUMBER OF SEATED LAUNCH ASSISTS: 2
   d. TOTAL NUMBER OF OVERHEAD LAUNCH ASSISTS: 1
      i. TOTAL LENGTH OF OVERHEAD LAUNCH ASSIST: 28 FT
      ii. TOTAL WIDTH OF OVERHEAD LAUNCH ASSIST: 5 FT
      iii. TOTAL AREA OF OVERHEAD LAUNCH ASSIST: 145 SF / 0.01 AC
      iv. TOTAL NUMBER OF PILES: 8
         (1) PILE TYPE: ALUMINUM
         (2) PILE SIZE: 6” X 3”
4. POND BOARDWALK
   a. TOTAL NUMBER OF PILES: 50
      i. PILE TYPE: TIMBER
      ii. PILE SIZE: 12” DIA.
   b. TOTAL LENGTH OF POND BOARDWALK: 201 FT
      i. WITHIN UPLANDS: 31 FT
      ii. WITHIN WETLANDS: 5 FT
      iii. WITHIN SURFACE WATERS: 165 FT
   c. TOTAL AREA OF POND BOARDWALK: 1,935 SF / 0.05 AC
      i. WITHIN UPLANDS: 158 SF / 0.01 AC
      ii. WITHIN WETLANDS: 7 SF / 0.0002 AC
      iii. WITHIN SURFACE WATERS: 1,770 SF / 0.04 AC
   d. WIDTH OF POND BOARDWALK: 8 FT – 20 FT
      i. TYPICAL WIDTH: 8 FT
      ii. BUMPOUT WIDTH: 20 FT
   e. TOTAL NUMBER OF SHADE STRUCTURES: 1
   f. DECKING, PILES, AND HANDRAILS WILL BE TIMBER.
5. MATTIE KELLY PARK BOARDWALK IMPROVEMENTS
   a. TOTAL NUMBER OF NEW PILES: 30
      i. PILE TYPE: TIMBER
      ii. PILE SIZE: 12” DIA.
   b. TOTAL LENGTH OF BOARDWALK IMPROVEMENTS: 455 FT
      i. WITHIN UPLANDS: 28 FT
      ii. WITHIN WETLANDS: 427 FT
   c. TOTAL AREA OF BOARDWALK IMPROVEMENTS: 3,705 SF / 0.09 AC
      i. WITHIN UPLANDS: 195 SF / 0.01 AC
      ii. WITHIN WETLANDS: 3,510 SF / 0.08 AC
   d. WIDTH OF BOARDWALK IMPROVEMENTS: 6 FT – 26 FT
      i. TYPICAL WIDTH: 6 FT
      ii. BUMPOUT WIDTH: 14 FT – 26 FT
   e. TOTAL NUMBER OF SHADE STRUCTURES: 1
   f. DECKING, PILES, AND HANDRAILS WILL BE TIMBER.
6. TIMBER FISHING PIER
   a. TOTAL NUMBER OF NEW PILES: 40
      i. PILE TYPE: TIMBER
      ii. PILE SIZE: 12” DIA.
   b. TOTAL NUMBER OF PILES TO BE REMOVED: 70
   c. TOTAL LENGTH OF FISHING PIER EXTENSION: 158 FT
      i. ABOVE MHWL: 6 FT
      ii. BELOW MHWL: 152 FT
   d. TOTAL LENGTH OF FISHING PIER REPAIR: 211 FT
      i. ABOVE MHWL: 0 FT
      ii. BELOW MHWL: 211 FT
   e. TOTAL LENGTH OF FISHING PIER REMOVAL: 266 FT
      i. ABOVE MHWL: 25 FT
      ii. BELOW MHWL: 241 FT
   f. TOTAL AREA OF FISHING PIER EXTENSION: 1,504 SF / 0.03 AC
      i. ABOVE MHWL: 45 SF / 0.001 AC
      ii. BELOW MHWL: 1,459 SF / 0.03 AC
   g. TOTAL AREA OF FISHING PIER REPAIR: 1,860 SF / 0.04 AC
      i. ABOVE MHWL: 0 SF / 0 AC
      ii. BELOW MHWL: 1,860 SF / 0.04 AC
   h. TOTAL AREA OF FISHING PIER REMOVAL: 1,756 SF/ 0.04 AC
      i. ABOVE MHWL: 144 SF / 0.003 AC
      ii. BELOW MHWL: 1,612 SF / 0.04 AC
   i. WIDTH OF FISHING PIER: 6 FT – 16 FT
   j. DECKING, PILES, AND HANDRAILS WILL BE TIMBER.

PROPOSED SHEETPILE PLAN

1. TOTAL NUMBER OF PROPOSED SHEETPILE WALLS: 3
   a. TOTAL NUMBER OF PERMANENT SHEETPILE WALLS: 2
   b. TOTAL NUMBER OF TEMPORARY SHEET PILE WALLS: 1
2. TOTAL LENGTH OF PROPOSED PERMANENT SHEETPILE WALLS: 552 FT
   a. TOTAL LENGTH OF PROPOSED SEAWALL: 346 FT
      i. ABOVE MHWL: 346 FT
      ii. BELOW MHWL: 0 FT
   b. TOTAL LENGTH OF PROPOSED RETURN WALL: 46 FT
      i. ABOVE MHWL: 46 FT
      ii. BELOW MHWL: 0 FT
   c. TOTAL LENGTH OF PROPOSED GROIN: 160 FT
      i. ABOVE MHWL: 25 FT
      ii. BELOW MHWL: 135 FT
3. TOTAL LENGTH OF EXISTING SEAWALL: 462 FT
4. SHEET PILES WILL EITHER BE VINYL OR STEEL, DEPENDING ON CONTRACTOR PREFERENCE, AND WILL COMPRISE ONLY NON-LEACHING MATERIALS.
5. IN LOCATIONS WHERE THE PROPOSED SHEET PILES ARE INTENDED TO BE USED AS A SEAWALL OR GROIN, A CONCRETE CAP WILL BE INCORPORATED.

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FIGURE 6
REGULATORY PERMIT QUANTITIES
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4815

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

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PROPOSED BOAT RAMP PLAN

1. BOAT RAMP TO CONSIST OF TWO 10-IN THICK CONCRETE SLABS OVERTOP AN 24-IN THICK LAYER OF PEA GRAVEL. AS NECESSARY, UP TO 48-IN UNSUITABLE MATERIAL MAY BE EXCAVATED AND REPLACED WITH SUITABLE MATERIAL.
2. TOTAL NUMBER OF EXISTING BOAT RAMPS: 2
3. TOTAL NUMBER OF PROPOSED BOAT RAMPS: 2
4. TOTAL NUMBER OF EXISTING BOAT LANES: 2
5. TOTAL NUMBER OF PROPOSED BOAT LANES: 2
6. MAXIMUM DISTANCE OF PROPOSED BOAT RAMP FROM MHWL: 65 FT
7. PROPOSED BOAT RAMP GRADE: -13.0%
8. PROPOSED BOAT LANE WIDTH: 35 FT
9. TOTAL LENGTH OF PROPOSED BOAT RAMP: 80 FT
10. TOTAL AREA PROPOSED BOAT RAMP: 5,550 SF / 0.13 AC
    a. ABOVE MHWL: 2,361 SF / 0.06 AC
    b. BELOW MHWL: 3,189 SF / 0.07 AC

PROPOSED DEMOLITION PLAN

1. TOTAL NUMBER OF AREAS PROPOSED FOR SHORE PROTECTION FEATURE REMOVAL: 3
    a. 3 EMBAYMENTS WILL BE CREATED ALONG THE EXISTING SHORELINE THROUGH REMOVAL OF EXISTING RIPRAP AND REGRADING.
    b. TOTAL LENGTH OF EMBAYMENTS: 150 FT
    C. TOTAL AREA OF RIPRAP REMOVAL: 13,050 SF / 0.30 AC
2. TOTAL NUMBER OF PILE-SUPPORTED STRUCTURES TO BE DEMOLISHED: 6
    a. WITHIN THE BOATING FACILITY 4 EXISTING PIERS WILL BE DEMOLISHED AND REPLACED WITH 3 PROPOSED PIERS.
        i. TOTAL NUMBER OF PILES TO BE REMOVED: 110
        ii. TOTAL NUMBER OF PILES TO BE REUSED: 0
        iii. TOTAL AREA EXISTING PIERS: 2,951 SF / 0.07 AC
        iv. TOTAL AREA PROPOSED PIERS: 4,275 SF / 0.10 AC
    b. 1 EXISTING BOARDWALK WITHIN MATTIE KELLY PARK WILL BE DEMOLISHED AND REPLACED.
        i. TOTAL NUMBER OF PILES TO BE REMOVED: 12
        ii. TOTAL NUMBER OF PILES TO BE REUSED: 80
        iii. TOTAL AREA EXISTING BOARDWALK: 2,718 SF / 0.06 AC
        iv. TOTAL AREA PROPOSED BOARDWALK: 3,705 SF / 0.09 AC
    c. 1 EXISTING TIMBER FISHING PIER WILL BE DEMOLISHED AND WILL BE REPLACED IN A SLIGHTLY DIFFERENT CONFIGURATION.
        i. TOTAL NUMBER OF PILES TO BE REMOVED: 70
        ii. TOTAL NUMBER OF PILES TO BE REUSED: 50
        iii. TOTAL AREA EXISTING FISHING PIER: 3,148 SF / 0.07 AC
        iv. TOTAL AREA PROPOSED FISHING PIER: 3,364 SF / 0.08 AC
3. TOTAL NUMBER OF CONCRETE BOAT RAMPS TO BE DEMOLISHED: 3
    a. WITHIN THE BOATING FACILITY, 3 EXISTING CONCRETE BOAT RAMPS WILL BE REMOVED AND REPLACED WITH 2 CONCRETE BOAT RAMPS.
    b. TOTAL AREA OF EXISTING BOAT RAMPS: 5,375 SF / 0.12 AC
    c. TOTAL AREA OF PROPOSED BOAT RAMPS: 5,550 SF / 0.13 AC
    d. TOTAL WIDTH OF EXISTING BOAT RAMPS: 80 FT
    e. TOTAL WIDTH OF PROPOSED BOAT RAMPS: 70 FT
4. TOTAL NUMBER OF GROINS S TO BE DEMOLISHED: 2
    a. WITHIN THE BOATING FACILITY, 2 EXISTING GROINS WILL BE REMOVED UNDER EXISTING PIERS 1 AND 3. NO TIE BACK SYSTEM IS PRESENT FOR THE EXISTING GROINS. THESE GROINS WILL BE REPLACED BY A SINGLE GROIN WITH A TIEBACK SYSTEM EXTENDING INTO THE UPLANDS.
    b. TOTAL LENGTH OF EXISTING GROINS: 130 FT (75 FT + 55 FT)
    c. TOTAL LENGTH OF PROPOSED GROIN: 160 FT

PROPOSED SIGN AND BUOY PLAN

1. TOTAL NUMBER OF PROPOSED SIGNS: 51
    a. TOTAL NUMBER OF EDUCATIONAL SIGNS: 33
    b. TOTAL NUMBER OF SAFETY SIGNS: 12
    c. TOTAL NUMBER OF NO MOORING SIGNS: 6
2. TOTAL NUMBER OF PROPOSED PERMANENT BUOYS: 6
    a. TOTAL NUMBER OF BUOY B1 (PADDLECRAFT ONLY): 2
    b. TOTAL NUMBER OF BUOY B2 (CAUTION SEAGRASS): 4
3. TOTAL NUMBER OF EXISTING BUOYS TO BE REMOVED: 2

PROPOSED UPLAND FEATURES AND DREDGED MATERIAL MANAGEMENT PLAN

PROPOSED UPLAND FEATURES SHOWN IN HALFF UPLAND FEATURES AND STORMWATER DESIGN PERMIT DRAWINGS.

1. TOTAL AREA UPLAND-CUT HOLDING POND TO BE FILLED: 6,000 SF / 0.14 AC
2. TOTAL AREA SAND SHORELINE EXCAVATION: 2,205 SF / 0.05 AC
3. TOTAL AREA TEMPORARY DMMA: 32,860 SF / 0.75 AC
4. EXISTING LENGTH OF JOE'S BAYOU SHORELINE: 2,052 LF
5. PROPOSED LENGTH OF JOE'S BAYOU SHORELINE: 2,053 LF

PROPOSED DREDGING PLAN

1. MAXIMUM DREDGING DEPTH: -6 FT (NAVD88) + 1 FT ALLOWABLE OVERDREDGE
2. TOTAL DREDGING AREA (BELOW MHWL): 76,825 SF / 1.76 AC
    i. BOAT RAMP FACILITY: 14,600 SF / 0.34 AC
    ii. MOORING AREA: 4,000 SF / 0.09 AC
    iii. STORMWATER POND: 58,225 SF / 1.34 AC
3. TOTAL DREDGING VOLUME (BELOW MHWL): 2,525 CY
    a. BOAT RAMP FACILITY: 1162 CY
    b. MOORING AREA: 198 CY
    c. STORMWATER POND: 1165 CY

PROPOSED PRESERVATION, RESTORATION, ENHACEMENT, AND CREATION PLAN

1. TOTAL PRESERVATION AREA: 124,183 SF / 2.85 AC
2. TOTAL RESTORATION AREA: 7,845 SF / 0.18 AC
3. TOTAL ENHANCEMENT AREA: 369,482 SF / 8.48 AC
    i. POND HABITAT BUFFER ZONE ELEVATIONS: -1' TO +1' RELATIVE TO APPROXIMATE MEAN POND ELEVATION (+2' NAVD88)
4. TOTAL CREATION AREA: 2,650 SF / 0.06 AC
    a. REEF HABITAT CREATION VOLUME: 200 CY
5. REFER TO FIGURE 14 PRESERVATION, RESTORATION, ENHANCEMENT, AND CREATION FOR ADDITIONAL DETAILS.

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FIGURE 7
REGULATORY PERMIT QUANTITIES
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4815

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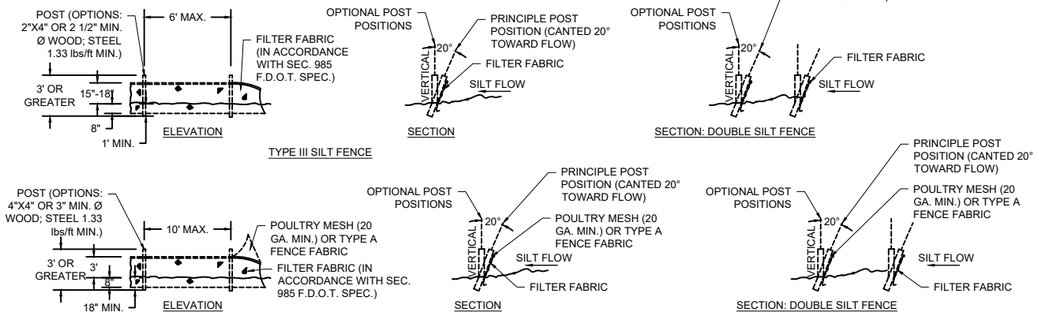
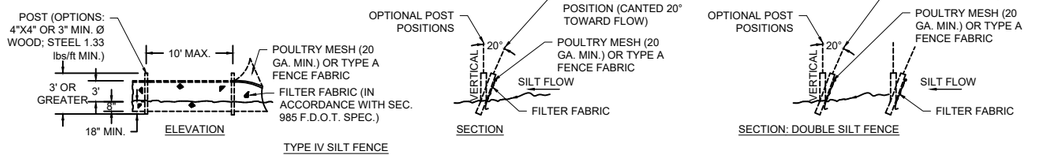


TYPE III SILT FENCE

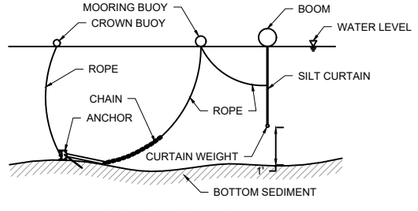


TYPE IV SILT FENCE

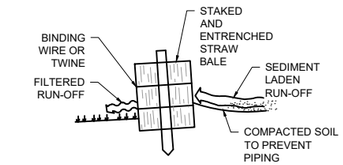
APPLICATION AND SPACING OF TYPES I & TYPES II HAY BALE BARRIERS SALL BE IN ACCORDANCE WITH SHEET 1 OF 3, F.D.O.T. INDEX NO. 102

TYPE II TYPE I

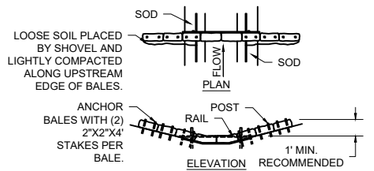
TYPICAL STRAW BALE DETAIL



TURBIDITY CURTAIN DETAIL

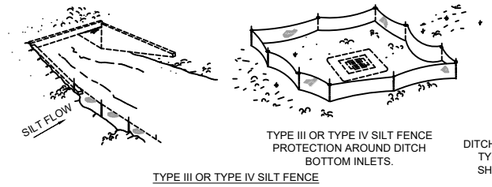


CROSS SECTION OF A PROPERLY INSTALLED STRAW BALE



SPACING: BALE BARRIERS FOR PAVED DITCHES SHOULD BE SPACED IN ACCORDANCE WITH CHART I, SHEET 1 OF 3, INDEX NO. 102 OF THE F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS.

STRAW BALE BARRIER FOR PAVED DITCH



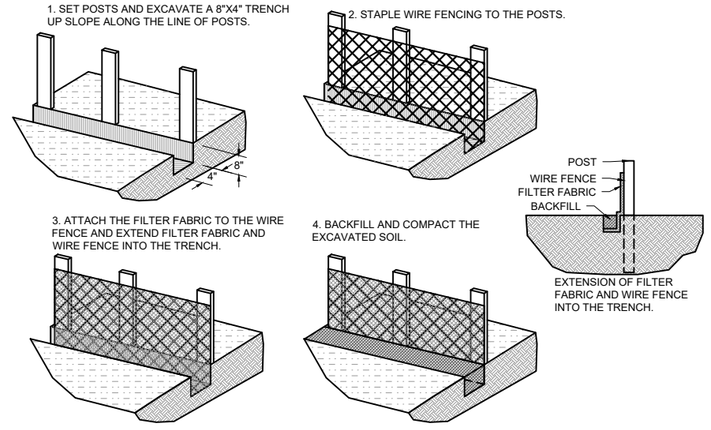
TYPE III OR TYPE IV SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS.

TYPE III AND IV SILT FENCE

DITCH INSTALLATION AND SPACING FOR TYPE III & TYPE IV FENCE TO BE IN ACCORDANCE WITH SHEET 1 OF 3, OF THE F.D.O.T. INDEX NO. 102

TYPE III OR TYPE IV SILT FENCE

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.



SILT FENCE INSTALLATION DETAILS

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FIGURE 8
EROSION CONTROL DETAILS
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4815

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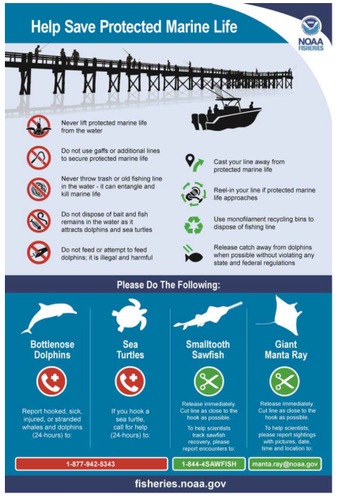


SIGN E1 (5 TOTAL)

SIGN E2 (5 TOTAL)

SIGN E3 (5 TOTAL)

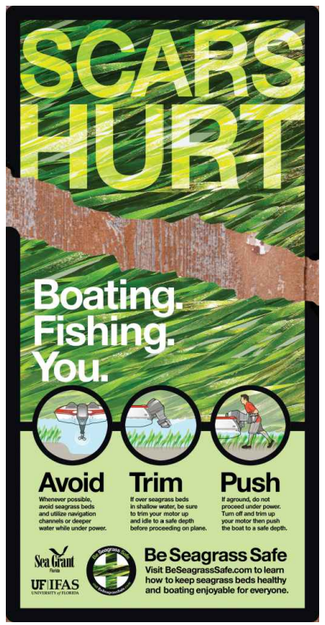
SIGN E4 (5 TOTAL)

COASTAL HABITAT SIGN
(TO BE ADDED)

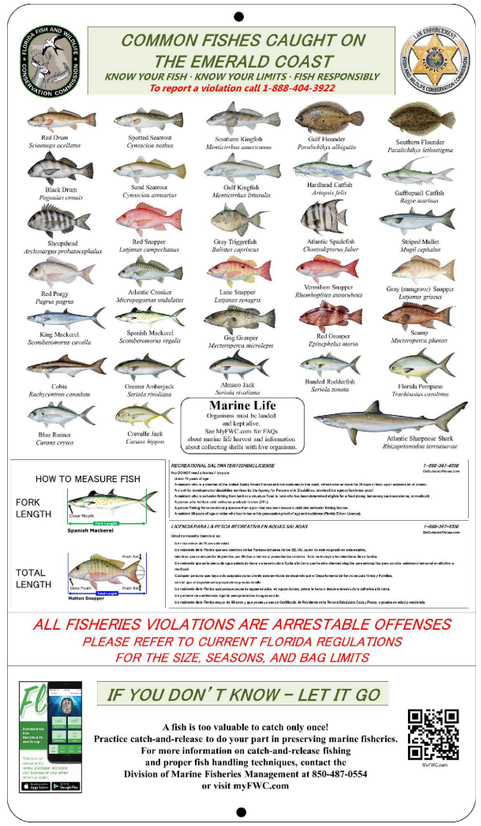
SIGN E5 (5 TOTAL)

WETLAND HABITAT SIGN
(TO BE ADDED)

SIGN E6 (3 TOTAL)



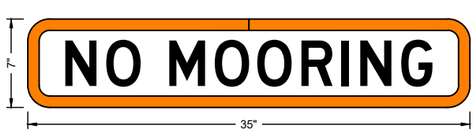
SIGN E7 (3 TOTAL)



SIGN E8 (2 TOTAL)

SIGN S1 (6 TOTAL)

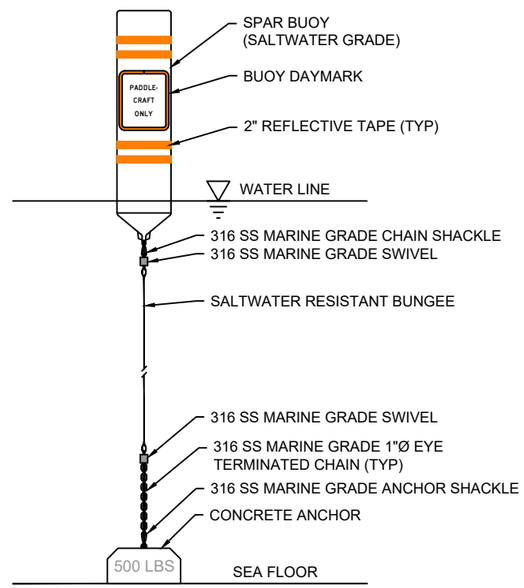
SIGN S2 (6 TOTAL)



SIGN M1 (6 TOTAL)

BUOY B1 (2 TOTAL)

BUOY B2 (4 TOTAL)



TYPICAL BUOY DETAIL
NOT TO SCALE

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FIGURE 9
SIGNAGE
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4815

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FIGURE 10
SIGNAGE OVERVIEW
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
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Legend:

- SERVICE POLE
- STORM MANHOLE
- POWER POLE
- LIGHT POLE
- WATER METER
- FIRE HYDRANT
- GUY ANCHORS
- SANITARY SEWER MANHOLE
- SANITARY SEWER VALVE
- TEMPORARY BENCHMARK
- SET IRON ROD 1/2" 7191
- FOUND IRON ROD OR PIPE
- FOUND CONCRETE MONUMENT
- FOUND NAIL & DISC
- BIKE RACK
- PARK BENCHES/TABLES
- TELEPHONE SERVICE BOX
- SET NAIL AND DISC 7191
- BACK FLOW PREVENTER VALVE
- SIGN

- EDGE OF WATER
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- CENTERLINE OF R/W
- WETLANDS LINE
- 1' CONTOUR (MINOR)
- 5' CONTOUR (MAJOR)
- UNDERGROUND WATER LINE (WL)
- SANITARY SEWER LINE (E-SWR)
- WOOD PRIVACY FENCE
- CHAIN-LINK FENCE
- OVERHEAD ELECTRIC LINE (OHE)
- EDGE OF WOODS

- ASPHALT
- CONCRETE
- GRAVEL
- MILLED ASPHALT
- RIP RAP

Tree Legend:

- OAK TREE
- PINE TREE
- PEAR TREE
- MAGNOLIA TREE
- PALM TREE
- CEDAR TREE
- BIRCH TREE

PROJECT	C2021-045
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FIGURE 11
EXISTING CONDITIONS
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
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FIGURE 12
PROJECT OVERVIEW
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4815

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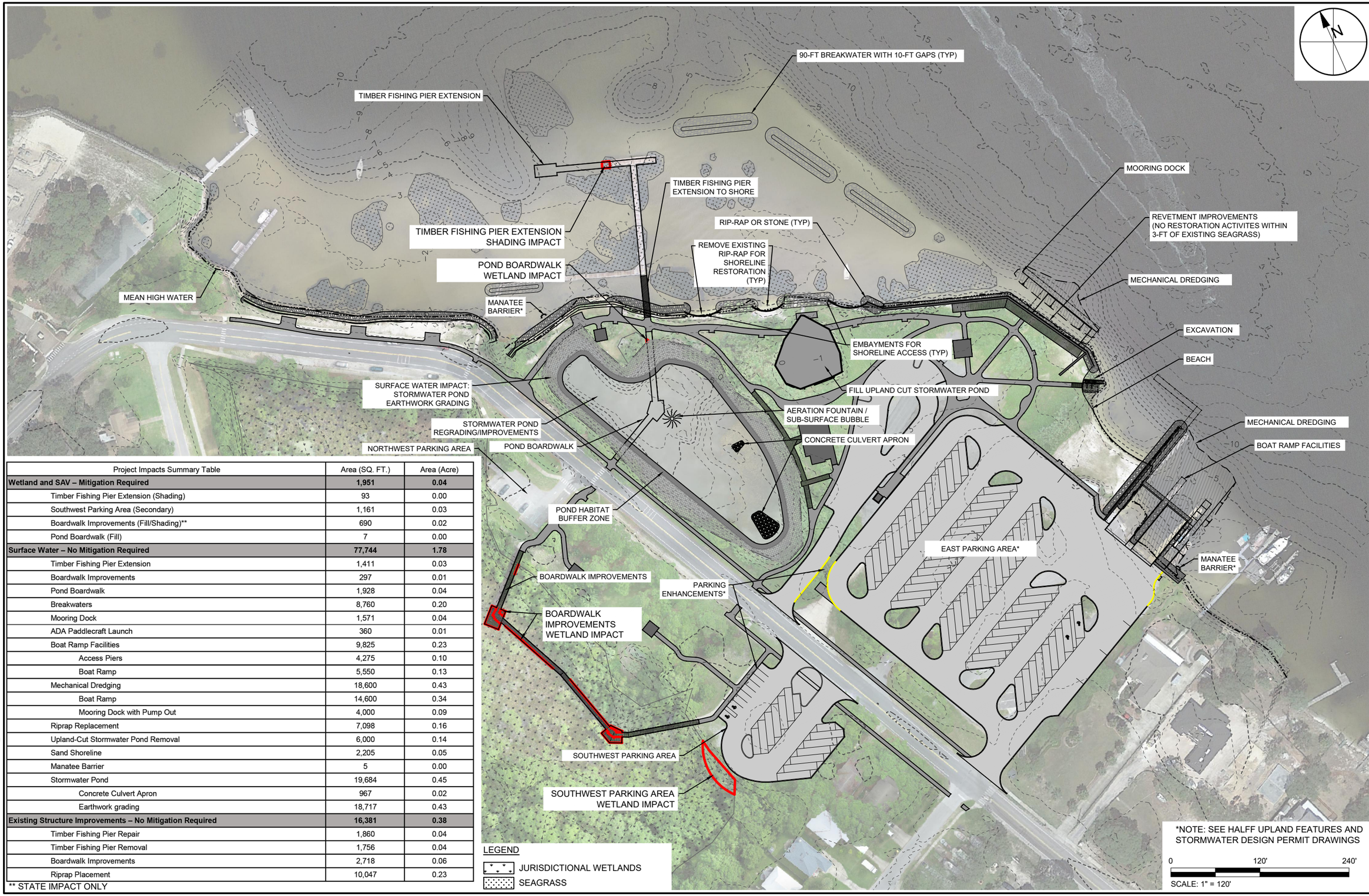

Project Impacts Summary Table	Area (SQ. FT.)	Area (Acre)
Wetland and SAV – Mitigation Required	**1,951**	**0.04**
Timber Fishing Pier Extension (Shading)	93	0.00
Southwest Parking Area (Secondary)	1,161	0.03
Boardwalk Improvements (Fill/Shading)**	690	0.02
Pond Boardwalk (Fill)	7	0.00
Surface Water – No Mitigation Required	**77,744**	**1.78**
Timber Fishing Pier Extension	1,411	0.03
Boardwalk Improvements	297	0.01
Pond Boardwalk	1,928	0.04
Breakwaters	8,760	0.20
Mooring Dock	1,571	0.04
ADA Paddlecraft Launch	360	0.01
Boat Ramp Facilities	9,825	0.23
Access Piers	4,275	0.10
Boat Ramp	5,550	0.13
Mechanical Dredging	18,600	0.43
Boat Ramp	14,600	0.34
Mooring Dock with Pump Out	4,000	0.09
Riprap Replacement	7,098	0.16
Upland-Cut Stormwater Pond Removal	6,000	0.14
Sand Shoreline	2,205	0.05
Manatee Barrier	5	0.00
Stormwater Pond	19,684	0.45
Concrete Culvert Apron	967	0.02
Earthwork grading	18,717	0.43
Existing Structure Improvements – No Mitigation Required	**16,381**	**0.38**
Timber Fishing Pier Repair	1,860	0.04
Timber Fishing Pier Removal	1,756	0.04
Boardwalk Improvements	2,718	0.06
Riprap Placement	10,047	0.23

** STATE IMPACT ONLY

PROJECT	C2021-045
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FIGURE 13
PROJECT IMPACTS
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4815

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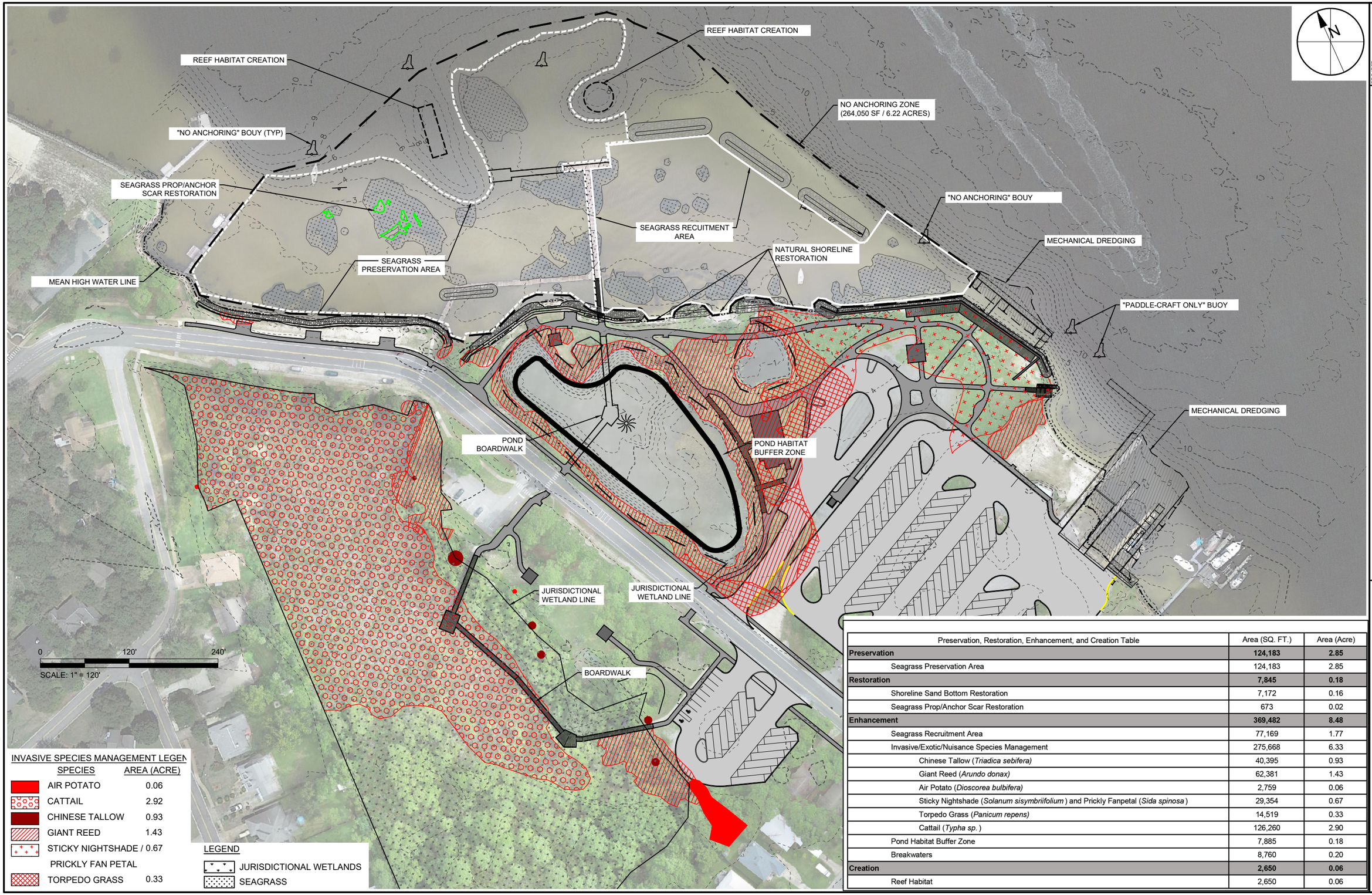

Preservation, Restoration, Enhancement, and Creation Table	Area (SQ. FT.)	Area (Acre)
Preservation	**124,183**	**2.85**
Seagrass Preservation Area	124,183	2.85
Restoration	**7,845**	**0.18**
Shoreline Sand Bottom Restoration	7,172	0.16
Seagrass Prop/Anchor Scar Restoration	673	0.02
Enhancement	**369,482**	**8.48**
Seagrass Recruitment Area	77,169	1.77
Invasive/Exotic/Nuisance Species Management	275,668	6.33
Chinese Tallow (*Triadica sebifera)*	40,395	0.93
Giant Reed (*Arundo donax)*	62,381	1.43
Air Potato (*Dioscorea bulbifera)*	2,759	0.06
Sticky Nightshade (*Solanum sisymbriifolium*) and Prickly Fanpetal (*Sida spinosa*)	29,354	0.67
Torpedo Grass (*Panicum repens)*	14,519	0.33
Cattail (*Typha sp.*)	126,260	2.90
Pond Habitat Buffer Zone	7,885	0.18
Breakwaters	8,760	0.20
Creation	**2,650**	**0.06**
Reef Habitat	2,650	0.06

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FIGURE 14
PRESERVATION, RESTORATION, ENHANCEMENT, AND CREATION
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4815

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NOTE: NO SEAGRASS IN THIS AREA

EXAMPLE TURBIDITY CURTAIN

DREDGING LIMITS
DREDGE TO -6' NAVD88

PADDLE-CRAFT ONLY BUOY

FLEXIBLE MOORING AREA (TYP)

RIPARIAN LINE

RIPARIAN LINE 25' OFFSET

25'

FLEXIBLE MOORING 1 (129 LF)

129'

FLEXIBLE MOORING 2 (77 LF)

77'

FIXED TIMBER PIER

FLEXIBLE MOORING 3 (162 LF)

RIPRAP

SHEET PILE WALL AND RIRAP
SEE FIG 22

SHEET PILE GROIN WITH CONCRETE CAP

DREDGING LIMITS
DREDGE TO -6' NAVD88

ADA PADDLE-CRAFT
LAUNCH (SEE FIG 18)

EXCAVATION, SEE FIG 18

MEAN HIGH
WATER (TYP)

FIXED TIMBER PIER

FLOATING DOCK

36'

36'

FLEXIBLE MOORING 4 (76 LF)

FLEXIBLE MOORING 5 (76 LF)

FLEXIBLE MOORING 6 (73 LF)

FLEXIBLE MOORING 7 (43 LF)

SAND SHORELINE

5' WIDE RIPRAP TOE
PROTECTION (TYP)

SEE HALFF UPLAND
FEATURES AND
STORMWATER DESIGN
PERMIT DRAWINGS

5' WIDE
GANGWAY
17'

2-LANE CONCRETE BOAT RAMP

SHORELINE
REVETMENT TO
PROPERTY LINE

35'

35'

79'

0 30' 60'

SCALE: 1" = 30'

SLIP SCHEDULE		
SLIP	LENGTH (FT)	MAX VESSELS
1	129	5
2	77	3
3	162	7
4	76	3
5	76	3
6	73	3
7	43	2
TOTAL		26

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FIGURE 15
BOAT RAMP PLAN
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
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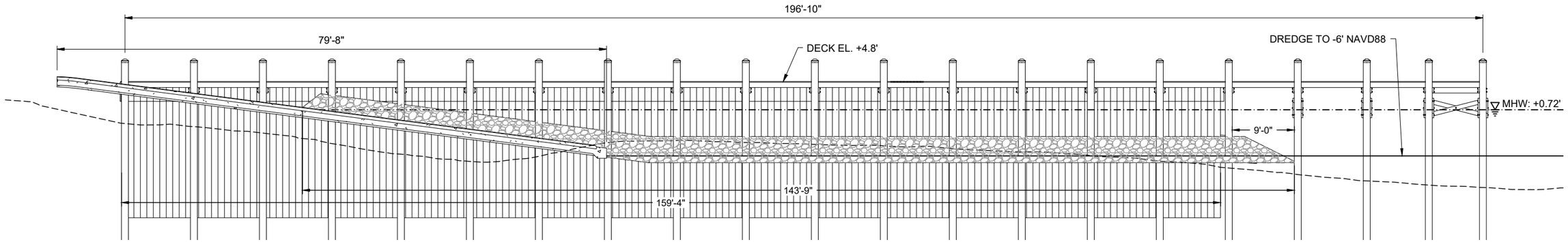
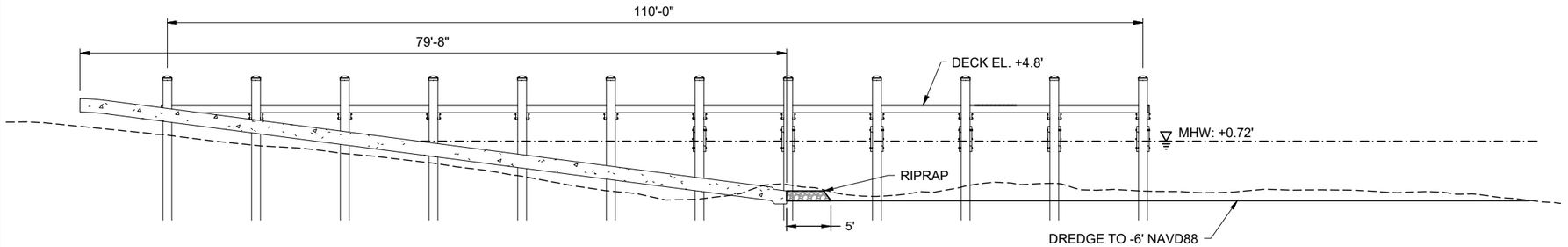
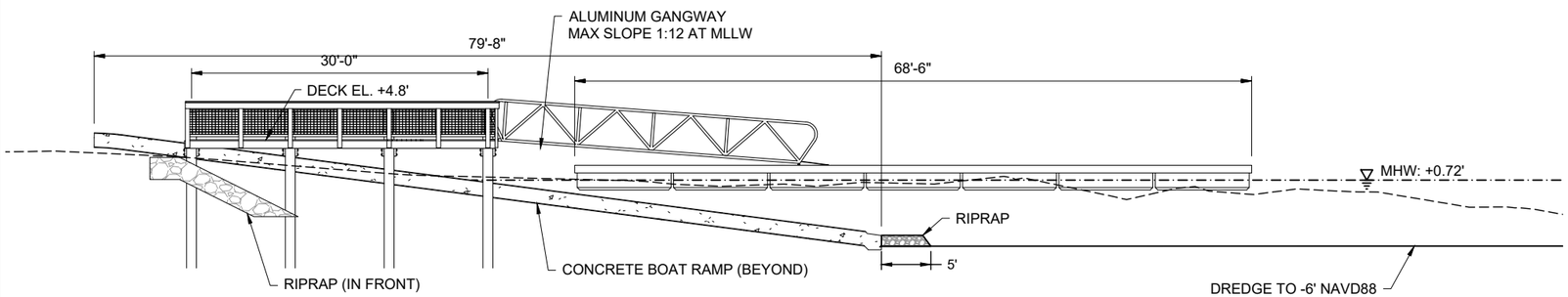


A BOAT RAMP ACCESS PIER 1 PROFILE
SCALE: 1" = 15' 0 15'



B BOAT RAMP ACCESS PIER 2 PROFILE
SCALE: 1" = 15' 0 15'



C BOAT RAMP FLOATING DOCK PROFILE
SCALE: 1" = 15' 0 15'

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FIGURE 16
BOAT RAMP ELEVATIONS
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
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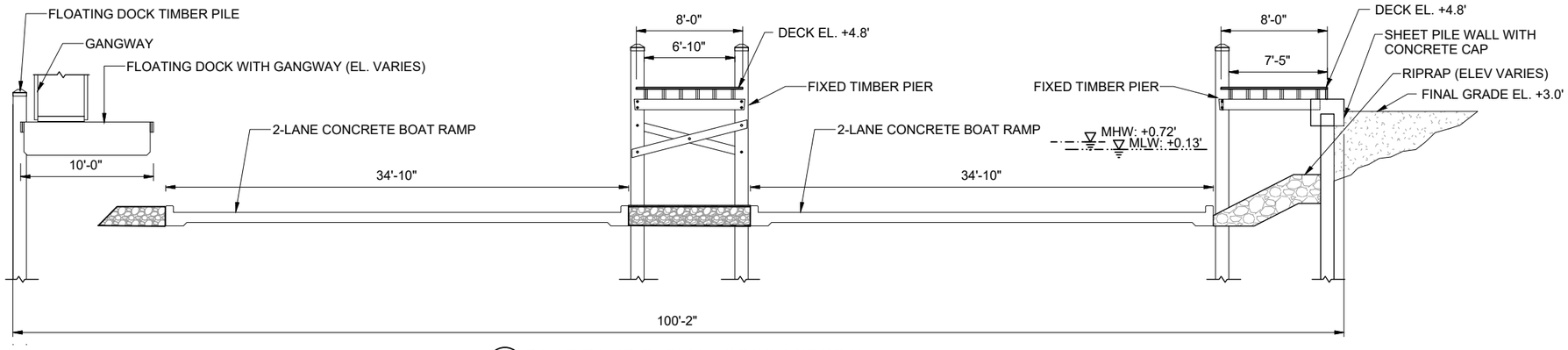
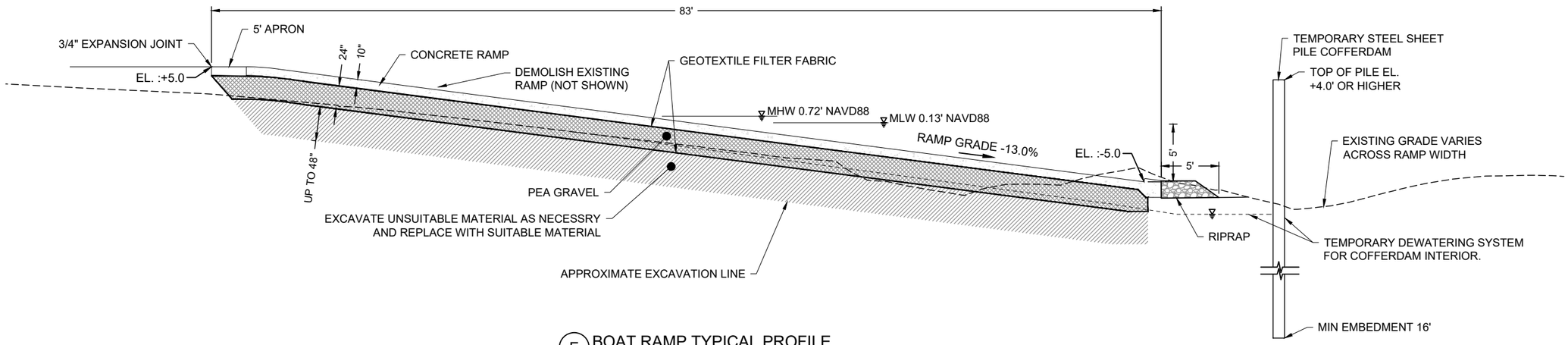
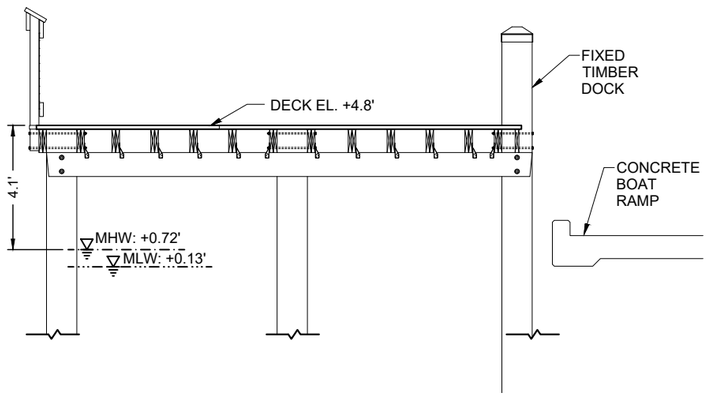


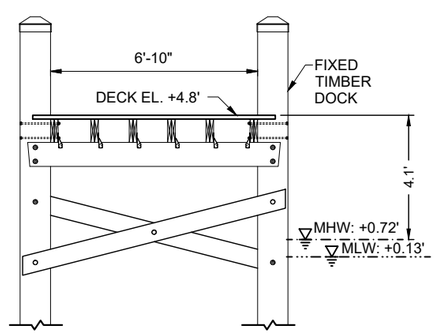
D BOAT RAMP TYPICAL CROSS SECTION
SCALE: 1" = 10' 0 10'



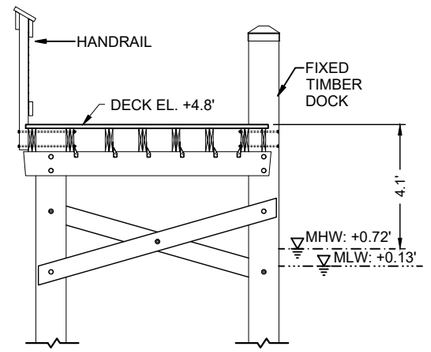
E BOAT RAMP TYPICAL PROFILE
SCALE: 1" = 10' 0 10'



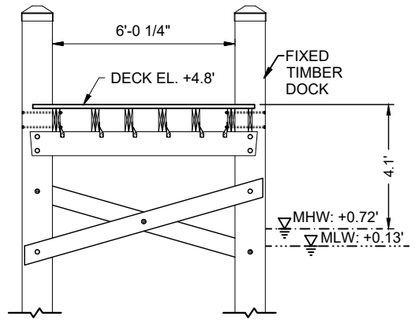
F ADA TIMBER DOCK TYPICAL CROSS-SECTION
SCALE: 1" = 5' 0 5'



BOAT RAMP ACCESS PIER
G TYPICAL CROSS-SECTION
SCALE: 1" = 5' 0 5'



MOORING PIER TYPICAL
H CROSS-SECTION WITH HANDRAIL
SCALE: 1" = 5' 0 5'



I MOORING PIER TYPICAL CROSS-SECTION
SCALE: 1" = 5' 0 5'

PROJECT	C2021-045
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FIGURE 17
BOAT RAMP DETAILS
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

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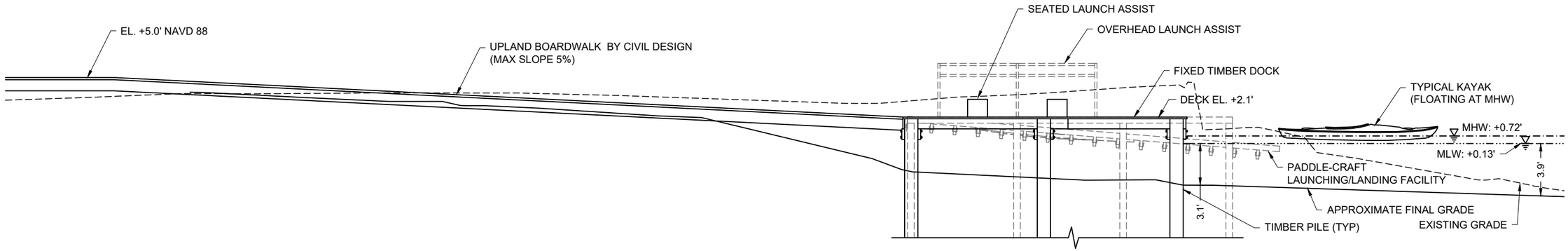
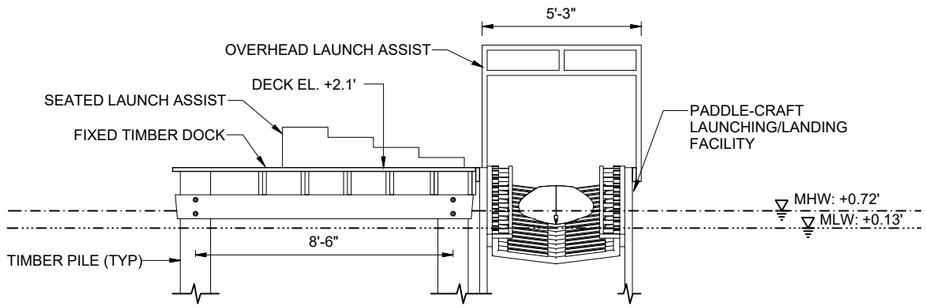
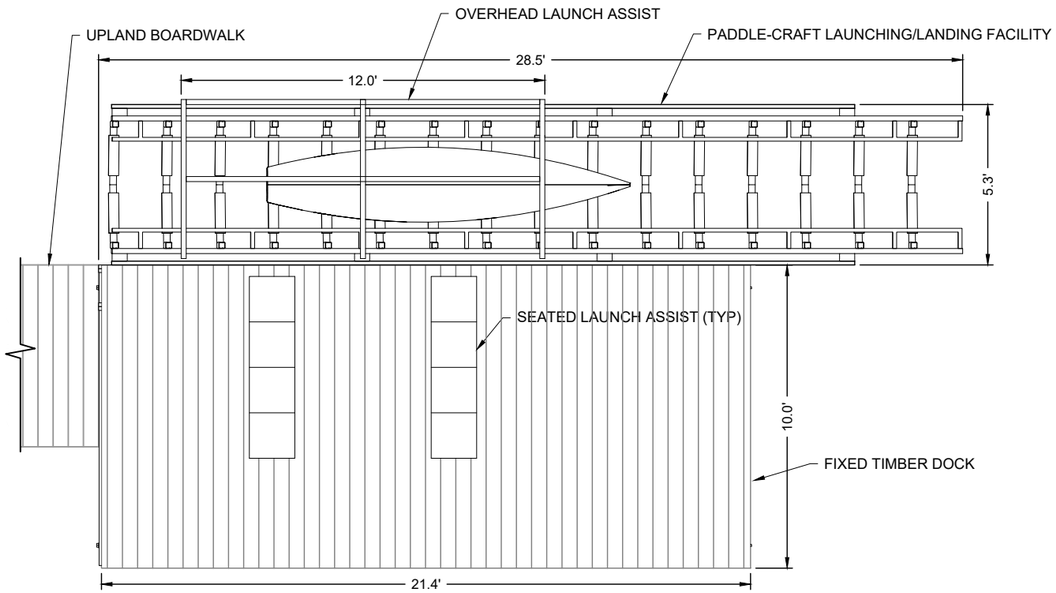


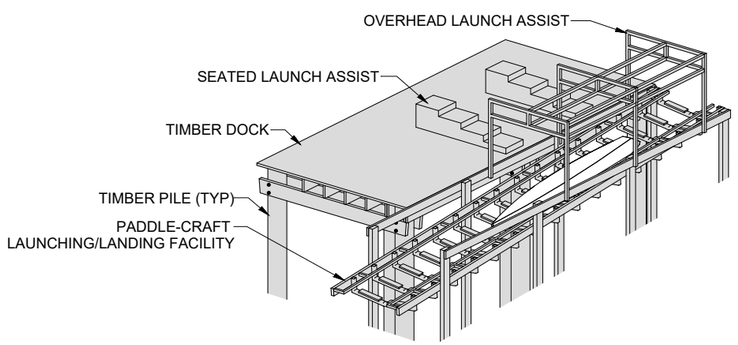
J ADA PADDLE-CRAFT DOCK SIDE ELEVATION
SCALE: 1" = 8'



K ADA PADDLE-CRAFT DOCK FRONT ELEVATION
SCALE: 1" = 5'



ADA PADDLE-CRAFT DOCK PLAN DETAIL
SCALE: 1" = 5'



ADA PADDLE-CRAFT DOCK 3D VIEW
SCALE: 1" = 8'

FIGURE 18
PADDLE-CRAFT DOCK DETAILS
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

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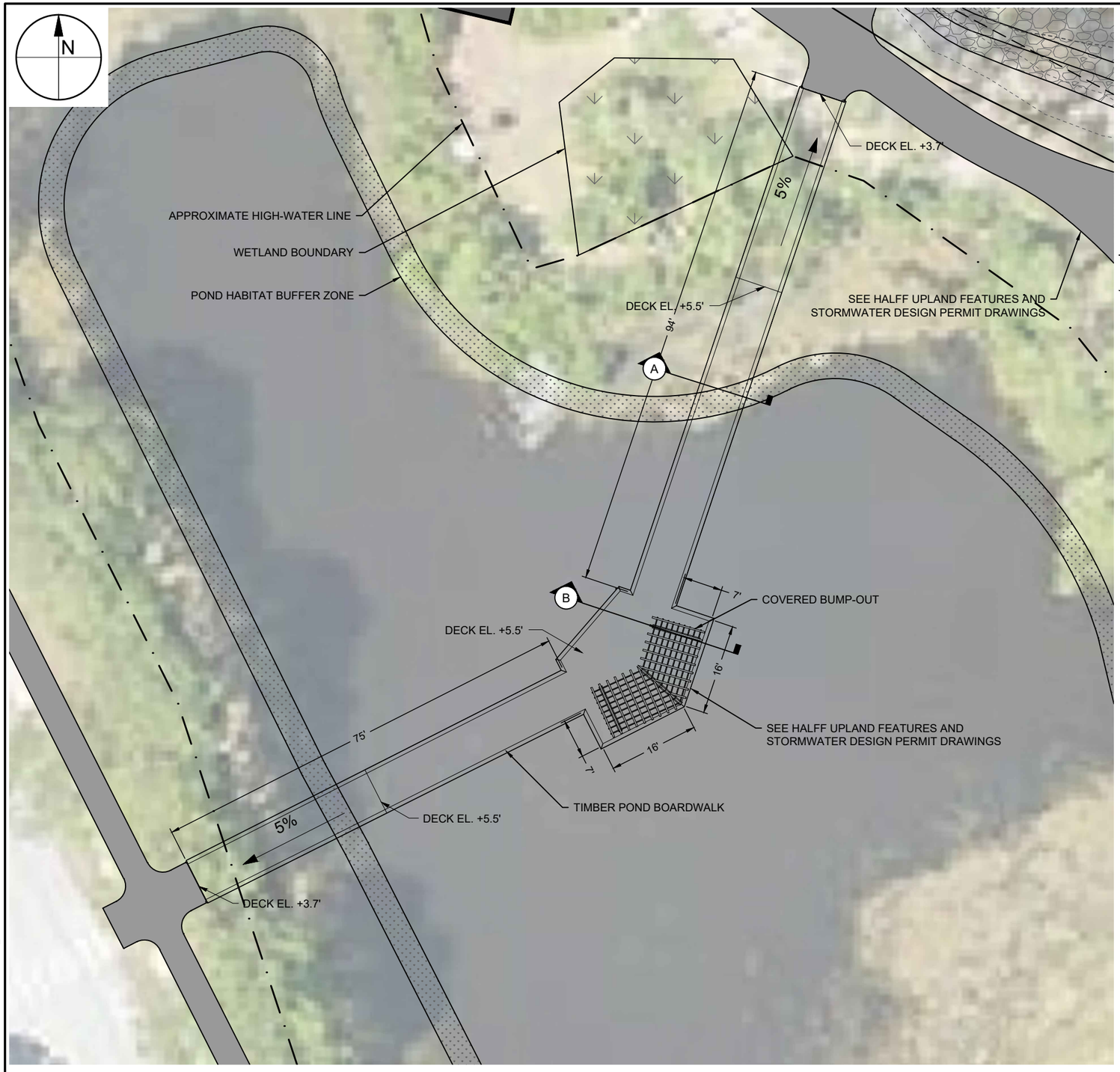
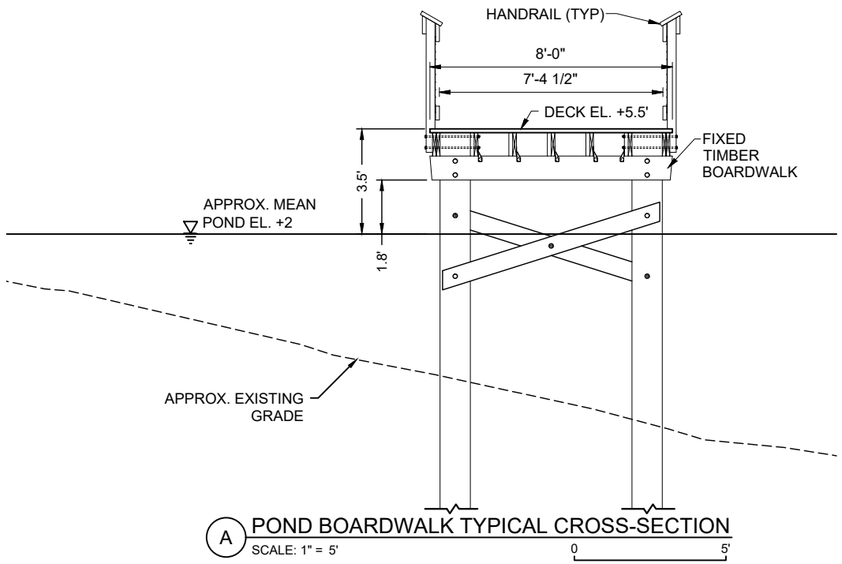


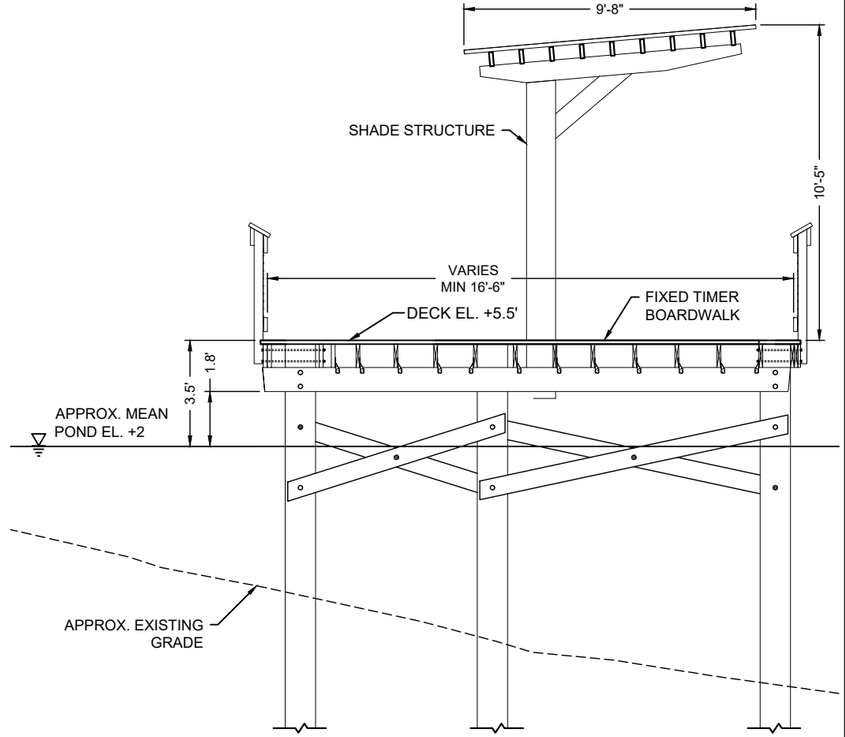
POND BOARDWALK PLAN

SCALE: 1" = 20' 0 20'



A POND BOARDWALK TYPICAL CROSS-SECTION

SCALE: 1" = 5' 0 5'



B POND BOARDWALK TYPICAL BUMP-OUT CROSS-SECTION

SCALE: 1" = 5' 0 5'

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FIGURE 19
POND BOARDWALK PLAN AND DETAIL
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4815

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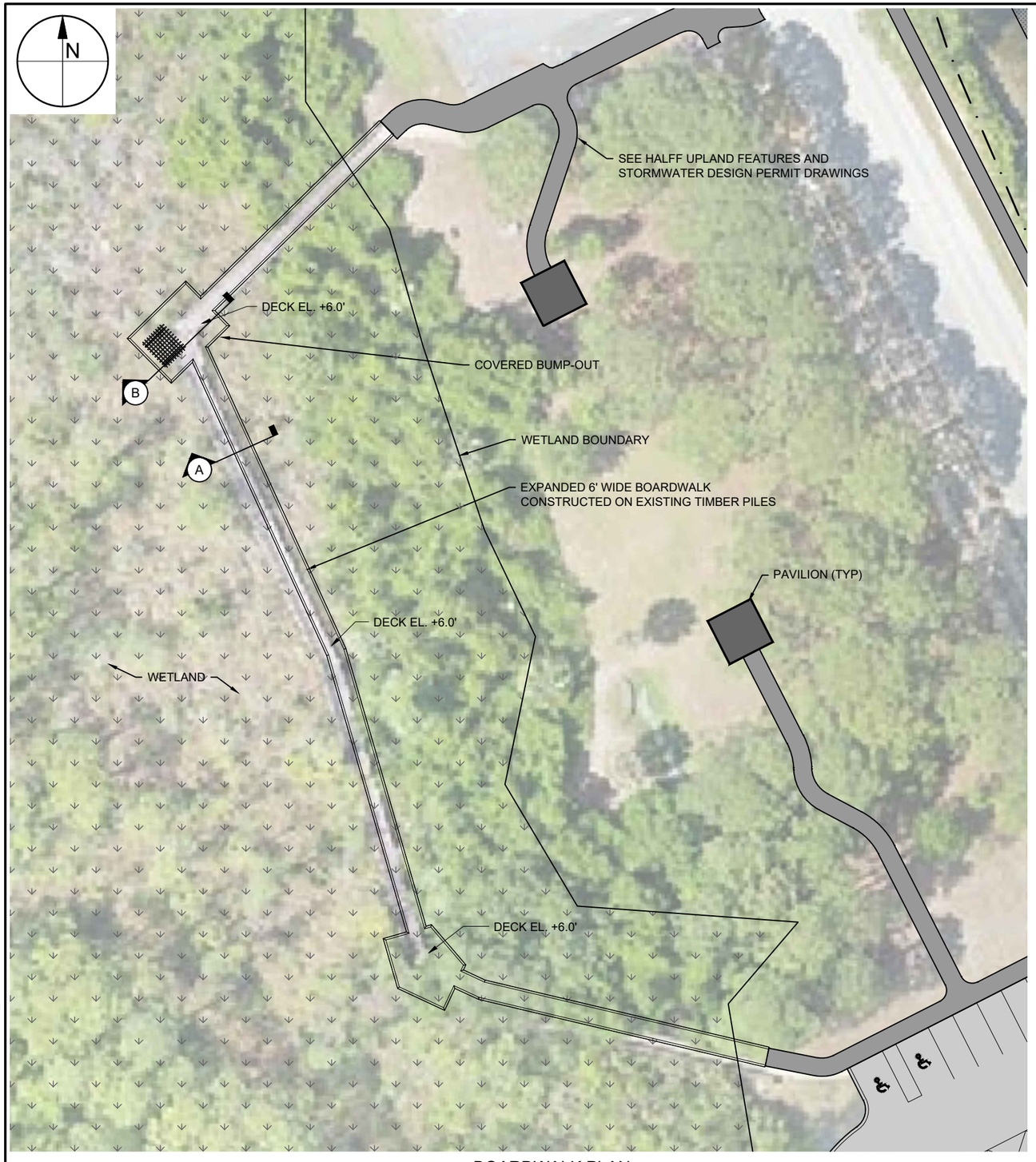
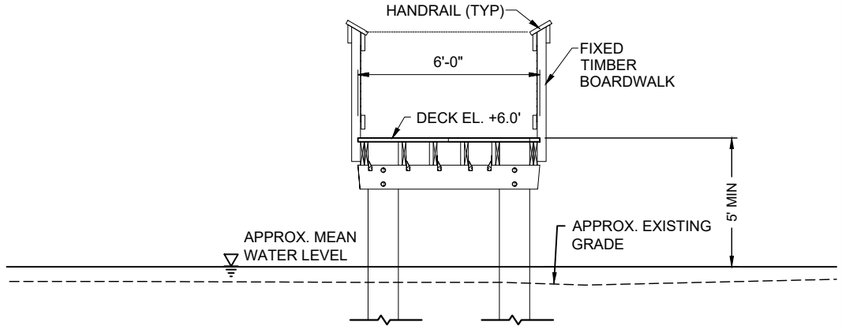
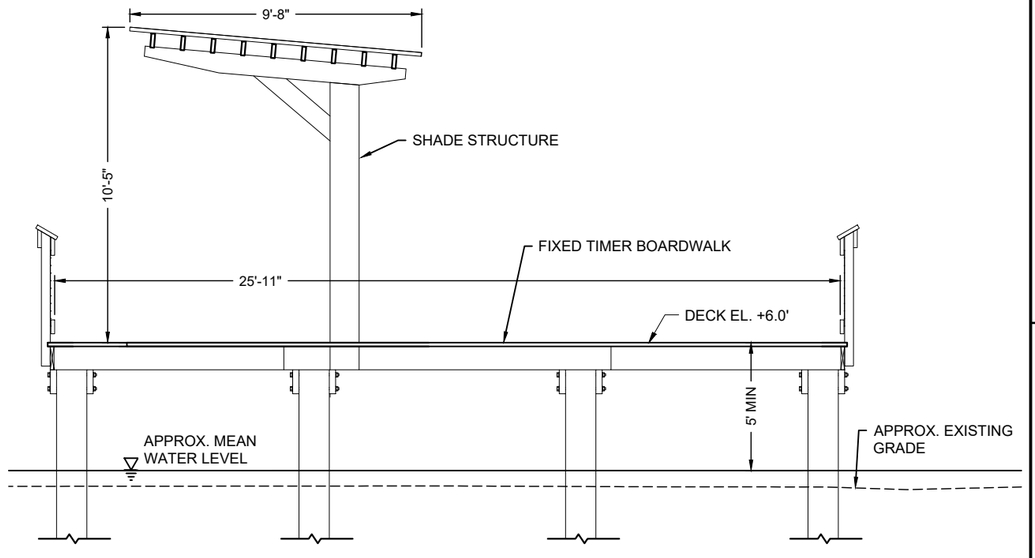


BOARDWALK PLAN
SCALE: 1" = 40' 0 40'



A BOARDWALK TYPICAL CROSS-SECTION
SCALE: 1" = 5' 0 5'



B BOARDWALK TYPICAL BUMP-OUT CROSS-SECTION
SCALE: 1" = 5" 0 5"

N

FIGURE 20
NATURE BOARDWALK PLAN AND DETAIL
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

PROJECT	C2021-045
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DATE	OCT 2024

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REGISTRY # 4815

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(B2) "NO ANCHORING" BUOY
N: 519406
E: 1340287

(B2) "NO ANCHORING" BUOY
N: 519336
E: 1340454

(B2) "NO ANCHORING" BUOY
N: 519352
E: 1340122

REEF AREA
N: 519351
E: 1340278

N: 519349
E: 1340298

20'

70'

60'

N: 519282
E: 1340270

N: 519279
E: 1340289

REEF AREA
N: 519266
E: 1340507

Ø40

EXAMPLE TURBIDITY CURTAIN

BREAKWATER (TYP)

115'

FISHING PIER EXTENSION

102'

16'

8'

62'

30'

N
FIG 23

R
FIG 23

PROPOSED EASEMEN

PIER REPLACEMENT

6'

185'

263'

205'

FIELD POSITION STRUCTURE FOUNDATIONS TO MAINTAIN 3' FROM SEAGRASSES AT TIME OF CONSTRUCTION

EXISTING SEAGRASS (TYP)

BREAKWATER

79'

EXISTING RIPRAP LIMITS

MEAN HIGH WATER

RIPRAP SHORE PROTECTION (TYP)

349'

EXISTING RIPRAP LIMITS

O
FIG 23

50'

6'

68'

56'

38'

56'

104'

13'

O
FIG 23

WETLAND BOUNDARY

WETLAND BOUNDARY

PROPOSED UPLAND FEATURES SHOWN IN HALFF UPLAND FEATURES AND STORMWATER DESIGN PERMIT DRAWINGS

APPROXIMATE POND HIGH-WATER LINE

N

0 50' 100'

SCALE: 1" = 50'

RIP RAP COVERAGE BELOW MHW:	AREA (AC)
RIP RAP PLACEMENT OVER UPLAND	0.004
RIP RAP PLACEMENT OVER EXISTING RIP RAP	0.094
RIP RAP PLACEMENT OVER SAND BOTTOM	0.096
RIP RAP REMOVAL OVER SAND BOTTOM	0.178

DRAFT

SEAL

DUNCAN GREER P.E.#83308 DATE

PROJECT	C2021-045	SHEET	21 of 25
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FIGURE 21
SHORELINE PLAN
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4815

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EXAMPLE TURBIDITY CURTAIN
BREAKWATER (TYP)
115'
113'
112'
R
FIG 23
PROPOSED EASEMENT BOUNDARY
263'
205'
(B2) "NO ANCHORING" BUOY
N: 518908
E: 1340830
FIELD POSITION STRUCTURE FOUNDATIONS TO MAINTAIN 3' FROM SEAGRASSES AT TIME OF CONSTRUCTION
EXISTING RIPRAP LIMITS
EXISTING SEAGRASS (TYP)
TOTAL WALL LENGTH: 345'
EXISTING RIPRAP LIMITS
RIPRAP SHORE PROTECTION (TYP)
38'
56'
77'
200'
24'
169'
O
FIG 23
V
FIG 23
P
FIG 23
APPROXIMATE POND HIGH-WATER LINE (TYP)
PROPOSED UPLAND FEATURES SHOWN IN HALFF UPLAND FEATURES AND STORMWATER DESIGN PERMIT DRAWINGS
FIXED TIMBER MOORING PIER (SEE FIGURE FIG 15)
130'
161'
46'
23'
(B1) "PADDLE-CRAFT ONLY" BUOY
N: 518717
E: 1340961
(B1) "PADDLE-CRAFT ONLY" BUOY
N: 518672
E: 1340984
FIXED TIMBER BOAT RAMP ACCESS PIER (SEE FIGURE FIG 15)
INSET
MATCHLINE
SAND SHORELINE

RIP RAP COVERAGE BELOW MHW:	AREA (AC)
RIP RAP PLACEMENT OVER UPLAND	0.004
RIP RAP PLACEMENT OVER EXISTING RIP RAP	0.094
RIP RAP PLACEMENT OVER SAND BOTTOM	0.096
RIP RAP REMOVAL OVER SAND BOTTOM	0.178

INSET
MATCHLINE
SAND SHORELINE
MHW
RIPRAP GROIN REPLACEMENT
MHW
BOAT RAMP RIPRAP TOE PROTECTION (TYP)
RIP RAP SHORE PROTECTION

N

0 50' 100'
SCALE: 1" = 50'

DRAFT

SEAL

DUNCAN GREER P.E.#83308

DATE

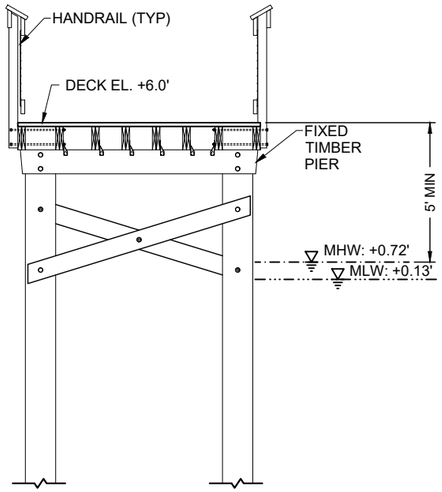
PROJECT	C2021-045
DRAWN BY	AF
SHEET	22 of 25
DATE	OCT 2024

FIGURE 22
SHORELINE PLAN
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

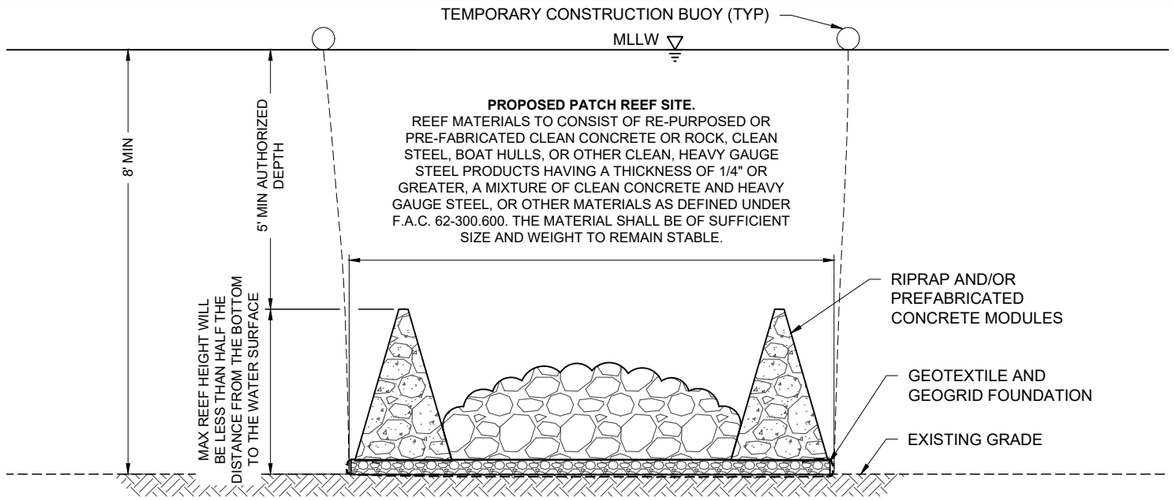
TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4815

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

ANTON FLEWELLING X:\SYS\PROJECTS\C2021-045_JOEBAYOU\PERMIT\C2021-045-P-SHORELINE PLAN.DWG 10/15/2024 3:14:17 PM

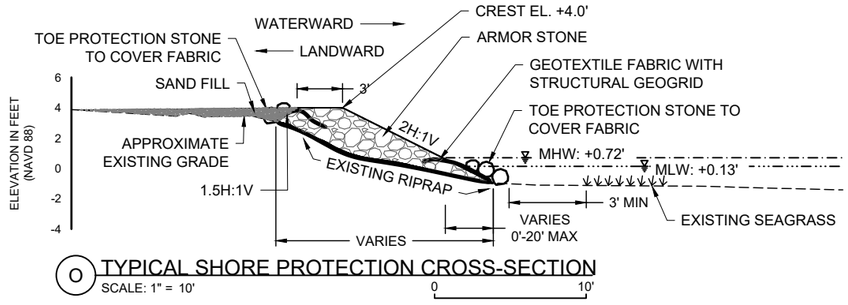


N TYPICAL PIER EXPANSION CROSS-SECTION
SCALE: 1" = 5'

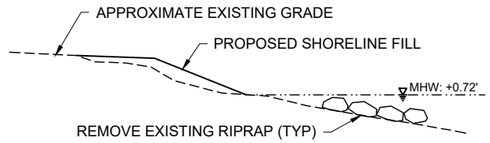


U REEF AREA TYPICAL CROSS-SECTION
NOT TO SCALE

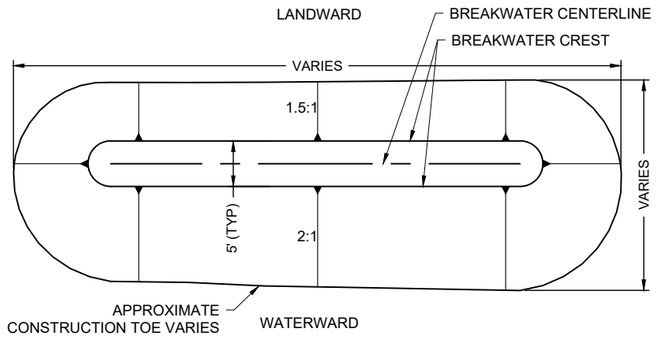
NOTES:
1. MARKER BUOYS WILL BE SECURED ALONG THE PERIMETER OF THE PATCH REEF SITES PRIOR TO MATERIAL PLACEMENT TO DEFINE THE DROP AREA AND TO ENSURE ACCURATE PLACEMENT WITHIN THE APPROVED SITE.
2. QUALITY CONTROL DIVES SHALL BE PERFORMED AS NECESSARY TO ENSURE PROPER MATERIAL PLACEMENT AND RELIEF.



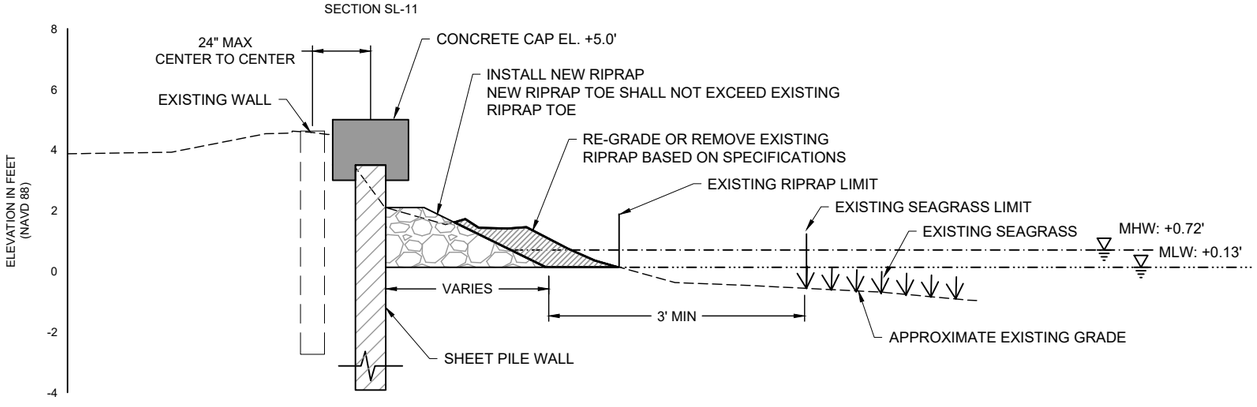
O TYPICAL SHORE PROTECTION CROSS-SECTION
SCALE: 1" = 10'



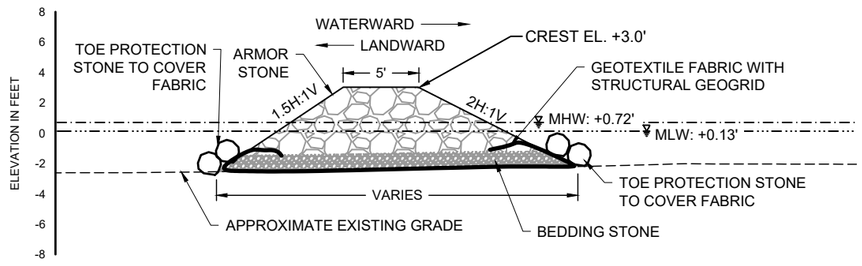
V TYPICAL SHORELINE EMBAYMENT SECTION
NOT TO SCALE



TYPICAL BREAKWATER PLAN DETAIL
NOT TO SCALE



P TYPICAL SEAWALL CROSS-SECTION
SCALE: 1" = 5'



R TYPICAL BREAKWATER CROSS-SECTION
SCALE: 1" = 10'

PROJECT	C2021-045
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SHEET	23 of 25
DATE	OCT 2024

FIGURE 23
PIER, SHORELINE, AND BREAKWATER DETAILS
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4815

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

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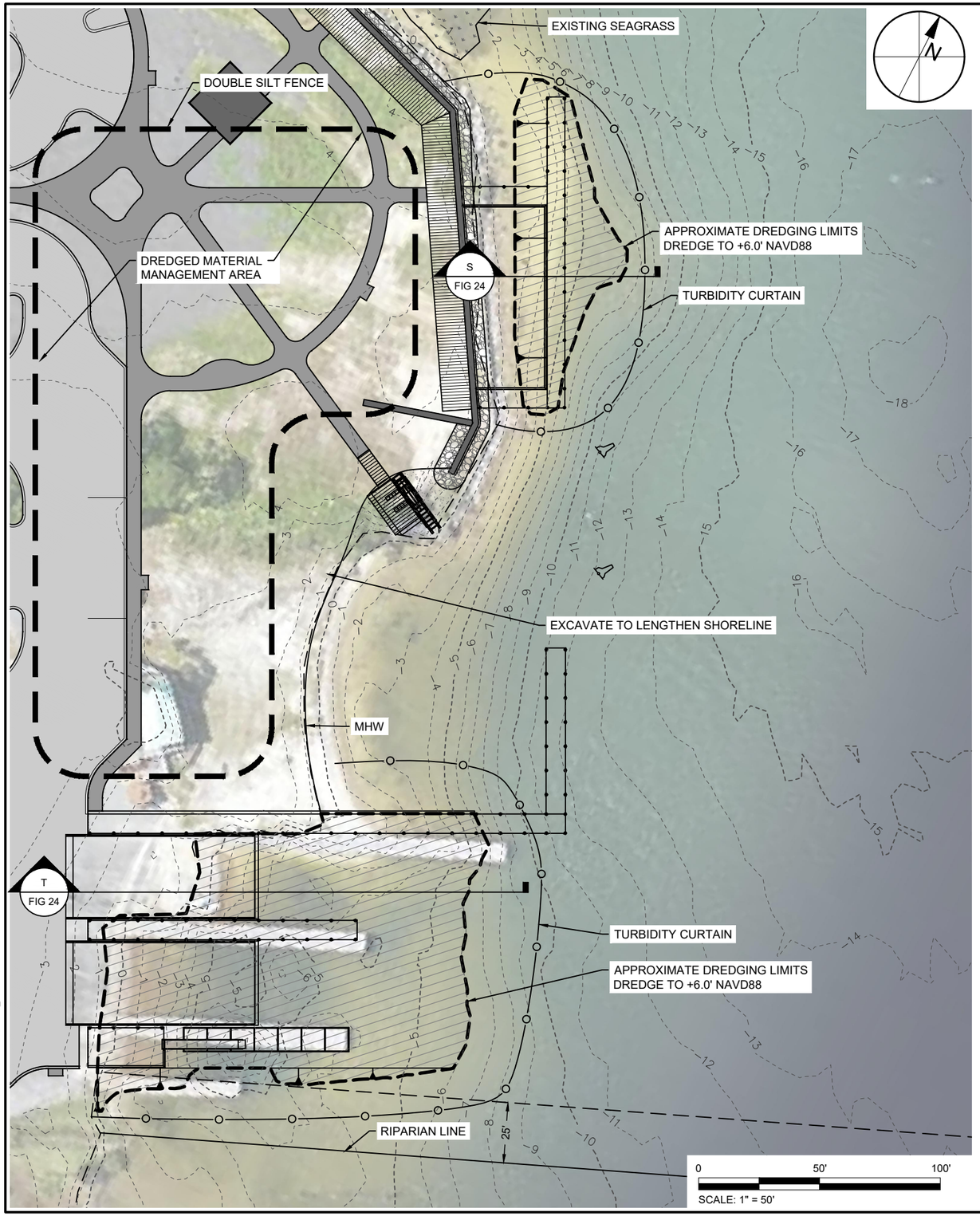
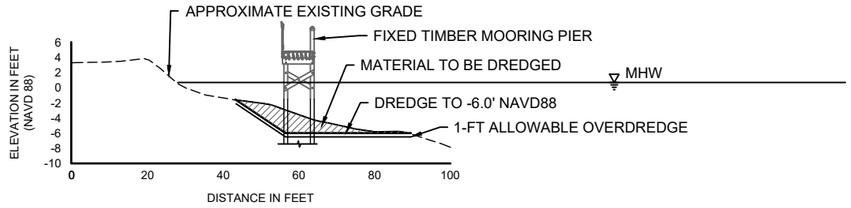
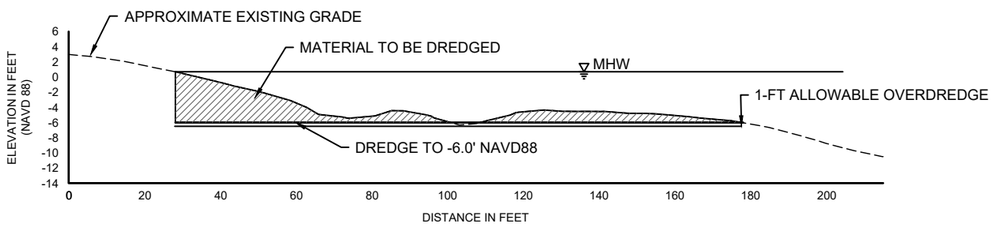




S TYPICAL MOORING PIER DREDGING CROSS-SECTION

SCALE: 1" = 40'

0 40'



T TYPICAL BOAT RAMP DREDGING CROSS-SECTION

SCALE: 1" = 40'

0 40'

PROJECT	C2021-045
DRAWN BY	AF
SHEET	24 of 25
DATE	OCT 2024

FIGURE 24
DREDGING PLAN AND DETAILS
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4815

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

ANTON FLEWELLING X:\SYS\PROJECTS\C2021-045_JOEBAYOU\PERMIT\C2021-045-P-DREDGING.DWG 10/15/2024 3:15:27 PM

BREAKWATER (TYP)

SSLE 1

SSLE 2

SSLE 3

REVETMENT IMPROVEMENTS (TYP)

SSLE 4

SSLE 5

SSLE 6

SSLE 7

10' SETBACK FROM MHW

MHW

PROPOSED SEAWALL

WATER TAXI LOADING AND TEMPORARY MOORING

FIXED TIMBER PIER

SSLE 8

SHEET PILE GROIN WITH
CONCRETE CAP AND RIP RAP

BEACH DRIVE

BEACH DRIVE

PARKING*

JOES BAYOU

*NOTE: SEE HALFF UPLAND FEATURES AND STORMWATER DESIGN PERMIT DRAWINGS

0 100' 200'

SCALE: 1" = 100'

N

PROJECT	C2021-045
DRAWN BY	AF
SHEET	25 of 25
DATE	OCT 2024

FIGURE 25
SOVEREIGN SUBMERGED LAND EASEMENT (SSLE) PLAN
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4815

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

ANTON FLEWELLING X:\SYS\PROJECTS\C2021-045_JOEBAYOU\PERMIT\C2021-045-P-SSLL.DWG 10/15/2024 7:05:49 PM

Joe’s Bayou Recreation Area Operations & Maintenance Plans

Prepared By: David W. Hutcheson

Project No: 40190.003

Permit No: 0142030-003-EI/46

Table of Contents

Stormwater Operations & Maintenance Plan 1
INTRODUCTION AND BACKGROUND 1
RESPONSIBLE PARTIES 2
STORMWATER FACILITIES/COMPONENTS 2
DESCRIPTION OF MAINTENANCE ACTIVITIES 2
MAINTENANCE SCHEDULES 3
INSPECTION REQUIREMENTS 3
FREQUENCY OF INSPECTIONS 3
EASEMENTS OR COVENANTS FOR MAINTENANCE 3
FUTURE CAPITAL AND MAINTENANCE EXPENDITURES 4
APPENDICES 5

INTRODUCTION AND BACKGROUND

Joe’s Bayou Recreation Area is roughly a 7.50-acre park facility located at 800 Beach Dr, Destin, Florida. The site consists of a boat launch, a parking facility, public restrooms, and a stormwater management facility. Surrounding Joe’s Bayou Recreation Area, there Joe’s Bayou to the North and East, residential property to the South, and Beach Drive to the West. The site is generally flat with elevations ranging from +6 to +3 with the pond having a bottom elevation of -6. According to NRCS Websoil Survey, on-site soils are mainly sands belonging to the Hydrological Soil Group A. There was a borrow pit where the stormwater management facility currently is which used to be a borrow pit with Hydrological Soil Group D.

RESPONSIBLE PARTIES

- Organization; City of Destin
- Address; 4200 Indian Bayou Trail Destin, FL 32541
- Phone numbers; (850) 837-4242

STORMWATER FACILITIES/COMPONENTS

Details and locations of all stormwater system components can be found in Appendix 3. City of Destin maintains their tool and maintenance equipment offsite and will be brought in as needed. The treatment volume recovery time is within the required range of 48-60 hours with the 2.5" orifice on the control structure. The normal pool elevation is at +1.50 with a volume of 160,519 CF

DESCRIPTION OF MAINTENANCE ACTIVITIES

- Drain Basins

Typical maintenance of drain basins includes clearing debris. Inlets have been designed with sumps to allow silt to settle as much as possible prior to discharge to pond, remove silt as needed with vacuum truck. Maintain records of all maintenance observed and repairs.

- Pond

Examine pond side slopes and bottom for evidence of erosion. Through the month of October through March, pond side slopes and bottom, where planted with turf grass, shall be mowed monthly at a minimum. During the months of April through September pond side slopes and bottom, where planted with turf grass, shall be mowed at a minimum of twice monthly. Non-turf grass plantings shall be trimmed during the dormant season of October to February. Clippings shall be bagged and properly disposed offsite to limit the accumulation of organic matter in the system. Routine maintenance is needed during the initial stage after the installation of plants to allow establishment of the desirable plants and control the growth of invasive species.

- Control Structure

Typical maintenance of the control structure includes ensuring it is clear of debris and clearing as necessary. Repair or replace broken structure or components as needs. Monitor for damage such as dents, rust, or minor cracks for when repairs or replacement may be required. Maintain records of all maintenance observed and repairs.

- Outlet Pipes

Examine for excessive erosion and repair as needed. Monitor for signs of damage such as dents or cracks for when repairs or replacements may be required. Monitor manatee barriers for damage and repair as needed.

- Energy Dissipators

Examine for excessive erosion and repair as needed.

MAINTENANCE SCHEDULES

Activity	Frequency	Additional Note
Clean out drain basin of sediment	As needed	Check after heavy rainfall events (> 0.5”)
Clear drain basin of debris	As needed	Check after heavy rainfall events (> 0.5”)
Clear outlet pipes of debris	As needed	Check after heavy rainfall events (> 0.5”)
Inspect energy dissipaters for debris	As needed	Check after heavy rainfall events (> 0.5”)
Inspect control structure for debris	As needed	Check after heavy rainfall events (> 0.5”)
Examine pond side slopes and bottom for erosion	As needed	Check after heavy rainfall events (> 0.5”)
Mow pond side slopes planted with turf	Bi-weekly	Increase/decrease seasonally
Rake Around Trees	As needed	Increase during Fall
Check control structure for sign of damage	Annually	N/A
Check outlets for excessive erosion and settlement	Annually	N/A

INSPECTION REQUIREMENTS

Entities of stormwater management system shall conduct inspections as needed to ensure that the stormwater management system, and each component thereof, continues to function as designed and permitted. See description of maintenance activities and maintenance schedules above.

FREQUENCY OF INSPECTIONS

TYPE OF SYSTEM	INSPECTION FREQUENCY
Dry Retention basins	Once every 3 years
Wet Detention systems	Once every 3 years
Vegetated Buffers	Once every 5 years
Manufactured Devices	As manufacturer recommends in specifications, minimum once every year
All other	Once every Year

EASEMENTS OR COVENANTS FOR MAINTENANCE

This property is owned operated and maintained by the City of Destin, therefore no easements or covenants for maintenance are required.

FUTURE CAPITAL AND MAINTENANCE EXPENDITURES

- Annual cost for lawncare maintenance $3,000
- Annual cost for stormwater system inspection $5,000
- Annual cost for stormwater system repair/replacement $5,000

Sinse the facility is owned operated and maintained by the City of Destin, the facility maintenance will be part of the annual parks and recreation budget.

APPENDICES

APPENDIX 1: Form 62-330.311(3) - Inspection Checklists

General Data

Inspection Date _____ Project Name _____

Location _____ Permit Number _____

Time since last storm event ☐ <24 hours ☐ 24-48 hours ☐ 48-72 hours ☐ >72 hours

Permit Holder _____ Permit Effective Date _____

Inspector Name _____

Inspector Contact Information _____

Multiple BMP types in the system No ☐ Yes ☐ List All: _____

_____

Permit drawings have been reviewed No ☐ Yes ☐

Additional Photos Attached ☐ N/A ☐

Compliance Activity Record Attached ☐ N/A ☐

All (or other unlisted) Technologies

Visually inspect all stormwater BMPs and treatment facilities, devices, discharge areas, and outfalls shown on the permit drawings.	Satisfactory	Unsatisfactory
General		
BMPs and treatment facilities are in good repair and operational	☐	☐
BMPs and treatment facilities are free from debris buildup that may impair function	☐	☐
Berms, embankments, curbing, or other methods used to impound, divert, and direct discharges are adequate and in good condition	☐	☐
The discharge (if any) is free of floating materials, visible oil sheen, discoloration, turbidity, odor, foam, or any other signs of contamination	☐	☐
Vegetation		
Mowing done when needed	☐	☐
Grass clippings removed	☐	☐
No evidence of erosion	☐	☐
Inlets		
Good condition	☐	☐
No evidence of erosion*	☐	☐

Outlets/overflow spillway		
Good condition	☐	☐
No evidence of erosion*	☐	☐

Comments: _____

Wet Pond

	Satisfactory	Unsatisfactory
Vegetation		
No signs of damage from animal activity	☐	☐
No signs of stress or disease	☐	☐
No emergent invasive plant life	☐	☐
No areas need replanting	☐	☐
Dead plant material is removed, if necessary	☐	☐
Upland banks are maintained		
Structural		
Embankment condition	☐	☐
Side slopes are stable	☐	☐
Fences/access repairs		
Fence(s) condition	☐	☐
Lock(s) and gate(s) function are adequate	☐	☐
Inlets		
Inlet(s) condition	☐	☐
Runoff is not short-circuiting the inlet	☐	☐
No evidence of trash/debris/sediment in or around inlet *	☐	☐
No evidence of erosion, gullies, rills, or flooding around inlet *	☐	☐
Outlets/overflow spillway/ drain gate		
Outlet(s) condition	☐	☐
No evidence of trash/debris/sediment in or around outlet *	☐	☐
No evidence of erosion, gullies, rills, or flooding around outlet *	☐	☐
Weir System: drawdown and overflow weir		
Weir system condition	☐	☐
No evidence of clogging *	☐	☐
Clear of debris*	☐	☐

Comments: _____

Inspector Name: _____

Signature of Inspector: _____

Florida Registration Number: _____

APPENDIX 2: Maintenance Log

Site Name	
Address	
Begin Date	End Date

Date	BMP ID	BMP Description	Maintained By	Maintenance Done	Comments Or Repair Actions Taken

APPENDIX 3: Grading and drainage plans

NORTH

0 30 60

SCALE IN FEET

SWMF
TOP: 3.00
BOTTOM: -6.00

BEACH DRIVE
100' PUBLIC R/W

S70
30" HDPE DRAIN BASIN
RIM:3.75
INV IN:-2.19 24"
INV OUT:-2.19 24"

S65
30" HDPE DRAIN BASIN
RIM:4.50
INV IN:-1.47 24"
INV OUT:-1.47 24"

S60
30" HDPE DRAIN BASIN
RIM:4.50
INV IN:-0.92 24"
INV OUT:-0.92 24"

S55
30" HDPE DRAIN BASIN
RIM:4.50
INV IN:-0.64 18"
INV OUT:-0.64 24"

S50
24" HDPE DRAIN BASIN
RIM:4.50
INV IN:-0.27 18"
INV OUT:-0.27 18"

S45
24" HDPE DRAIN BASIN
RIM:4.50
INV IN:0.17 18"
INV OUT:0.17 18"

S40
24" HDPE DRAIN BASIN
RIM:4.50
INV OUT:0.54 18"

S35
FDOT TYPE C DBI
RIM:5.69
INV OUT:0.72 18"

S30
FDOT TYPE C DBI
RIM:5.50
INV IN:-1.08 18"
INV IN:0.38 18"
INV OUT:-1.08 18"

S25
24" HDPE DRAIN BASIN
RIM:4.50
INV IN:-0.76 18"
INV OUT:-0.76 18"

S20
24" HDPE DRAIN BASIN
RIM:4.50
INV IN:-0.40 18"
INV OUT:-0.40 18"

S10
24" HDPE DRAIN BASIN
RIM:4.50
INV IN:-0.11 18"
INV OUT:-0.11 18"

S5
24" HDPE DRAIN BASIN
RIM:4.50
INV IN:0.25 18"
INV OUT:0.25 18"

S90
STORMWATER MANHOLE
RIM:6.00
INV IN:2.00 24"
INV IN:0.42 24"
INV OUT:0.42 24"

S85
FDOT TYPE D INLET
CONTROL STRUCTURE
4.08' WIDE X 1.25' DEEP SLOT EACH SIDE
INV. 2.33
2.5" ORIFICE, INV. 1.50
RIM:3.58
INV OUT:-1.00 24"

S15
FDOT TYPE C DBI W/
DUAL SLOTS AT 3.00
RIM:3.38
INV OUT:0.76 18"

END DRAINAGE RUN 4
END INV. -1.00
END DRAINAGE RUN 1
END DRAINAGE RUN 2.1
END DRAINAGE RUN 3
ENC PV 5.60 GE RUN 2
HEADWALL
INV. OUT 2.80
STORM INLET
TOP: 4.10
SE INV.: 2.30
NW INV.: 1.10
BEGINNING DRAINAGE RUN 5
BEGINNING DRAINAGE RUN 2 AND 3
BEGINNING DRAINAGE RUN 2.1
BEGINNING DRAINAGE RUN 4
END INV. -3.00
END INV. -2.00
F.F.E. 5.25
F.F.E. 5.00
ENVIRONMENTAL COMPOSITE, INC. 4D18FG1 4-SIDED SKIMMER OR EQUIVALENT

89 LF OF 24" HDPP @ 0.81%
111 LF OF 24" HDPP @ 0.50%
55 LF OF 24" HDPP @ 0.50%
75 LF OF 18" HDPP @ 0.50%
89 LF OF 18" HDPP @ 0.50%
74 LF OF 18" HDPP @ 0.50%
211 LF OF 24" HDPP @ 0.68%
185 LF OF 24" HDPP @ 0.44%
73 LF OF 18" HDPP @ 1.25%
65 LF OF 18" HDPP @ 0.50%
72 LF OF 18" HDPP @ 0.50%
58 LF OF 18" HDPP @ 0.50%
72 LF OF 18" HDPP @ 0.50%
58 LF OF 18" HDPP @ 0.50%
11 LF OF 18" HDPP @ 7.18%
135 LF OF 18" HDPP @ 2.04%
135 LF OF 24" HDPP @ 0.50%

N26°59'27"W 804.46' (D)
N27°53'23"W 844.08' (D)

halff
2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

DRAFT

ENG

JOE'S BAYOU RECREATION
AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PROJECT TITLE

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

Call 811 before you dig.

PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

GRADING AND DRAINAGE PLAN SOUTHERN

C6.1

SHEET 10 OF 32

RYAN TRUBIA, 9/18/2024 8:41:47 AM, A:\40000s\40190\003\CAD\Sheets\T1\H40190_003_Layout_90%.dwg

SWMF
TOP: 3.00
BOTTOM: -6.00

F.F.E. 5.00

F.F.E. 6.00

F.F.E. 6.00

NOTES:
1. SEE SHEET C7 FOR DRAINAGE PROFILES
2. REPLACE EXISTING WOODEN SKIMMERS WITH NEW PRESSURE TREATED WOOD SKIMMERS USING SAME DESIGN AND ELEVATION SEE SHEET C8 FOR DETAILS
3. A. B.

RYAN TRUBIA, 9/18/2024 8:41:54 AM, A:\40000s\40190\003\C-ADS\Sheets\TL1\40190_003_Layout_90%.dwg

halff
2255 KILLEARN CENTER BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

DRAFT

ENG

PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

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NO	ZONE	REVISIONS / SUBMISSIONS	DATE

Call 811 before you dig.

PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JP
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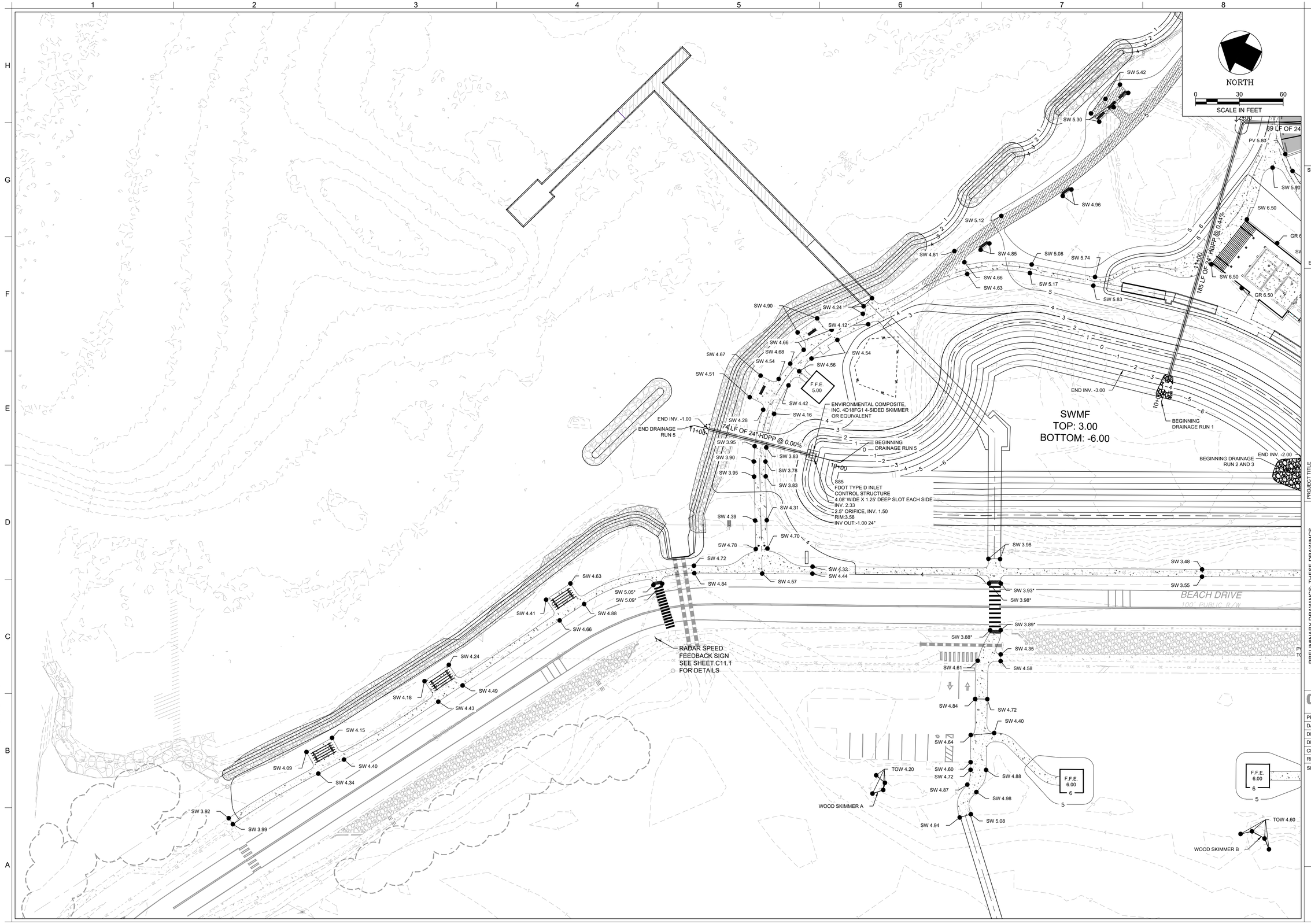
REVIEWED	DWH

SHEET TITLE

GRADING AND DRAINAGE PLAN WESTERN

C6.2

SHEET 11 OF 32



halff
2255 KILLEARN CENTER BLVD., SUITE 100
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

SEAL

DRAFT

ENG

JOE'S BAYOU RECREATION
AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PROJECT TITLE

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

Call 811 before you dig.

PROJECT NO	40190-003
DATE	08-02-2024
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

GRADING AND DRAINAGE PLAN NORTHERN

C6.3

SHEET 12 OF 32

RYAN TRUBIA, 9/18/2024 8:42:01 AM, A:\40000s\40190\00\03\CADD\Sheets\TLH40190.003_Layout_90%.dwg

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, JACKSONVILLE DISTRICT
PENSACOLA REGULATORY OFFICE
41 NORTH JEFFERSON STREET, SUITE 301
PENSACOLA, FLORIDA 32502

June 17, 2024

Regulatory Division
North Branch
Pensacola Permits Section

PUBLIC NOTICE

Permit Application No. SAJ-2021-02708 (SP-SMW)

TO WHOM IT MAY CONCERN: The Jacksonville District of the U.S. Army Corps of Engineers (Corps) has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. §1344) and Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. §403) as described below:

APPLICANT: City of Destin, Jeffrey Cozadd
4200 Indian Bayou Trail
Destin, Florida 32541

WATERWAY AND LOCATION: The project would affect waters of the United States associated with Joe's Bayou, nearby ponds, and wetlands. The project site is located around 800-850 Beach Drive, in Section 18, Township 2 South, Range 22 West, Destin, Okaloosa County parcels C56-000-589-9467-4, C56-000-589-9475-7, C56-000-589-9476-5, C56-000-589-9477-3 and C56-000-589-9478-1.

Directions to the site are as follows: Applicant provided: Traveling west on Highway 98, going across the Pensacola Bay Bridge, continue for approximately 44.4 miles across the Destin Bridge and into Destin. From there, tum left onto Calhoun Avenue. Travel for 1.2 miles, then continue straight onto Sibert Avenue and travel for about 0.2 miles to the end of Sibert Avenue. At the end of Sibert Avenue, turn right onto Benning Drive then immediately turn left onto 1st Street. Continue for another 0.2 miles to the intersection with Beach Drive. The parking lot associated with the Joe's Bayou Boat Ramp will be directly across the street. To reach Joe's Bayou, continue straight approximately 500 feet. To reach the Mattie Kelly Boardwalk, tum left onto Beach Drive, and continue about 300 feet, then tum left into the first parking lot. A second parking lot (and access) is available on the left approximately 350 feet down Beach Drive.

APPROXIMATE CENTRAL COORDINATES: Latitude 30.41134°
Longitude -86.49210°

PROJECT PURPOSE:

Basic: The applicant states the basic project purpose is to further develop the Joe's Bayou Recreational Area and Mattie Kelly Park.

Overall: The applicant states the overall project purpose is to improve waterfront access, construct new recreational amenities, and enhance/restore the topography and natural resources (including wetland, saltmarsh, upland, ad shoreline restoration) at the heavily utilized Joe's Bayou Recreation Area and Mattie Kelly Park.

EXISTING CONDITIONS: The project site includes on site include 21 acres nearshore waters of Joe's Bayou, 1.47 acres of open surface waters in ponds, and 8.67 acres of freshwater wetlands. The onsite wetlands are categorized palustrine shrub scrub and palustrine forested. The non-forested wetlands having vegetation communities consisting of cattail (*Typha* sp.), seaside goldenrod, Canadian goldenrod (*Solidago canadensis*), sawgrass, ragweed, giant reed, smooth rose mallow (*Hibiscus laevis*), barnyard grass (*Echinochloa walteri*), Virginia saltmarsh mallow (*Kosteletzkya pentacarpos*), smartweed (*Polygonum* sp.) and sedges (*Carex* sp.). The forested wetlands having vegetation communties consisting of predominately Loblolly pine, some large Chinese tallow trees, scattered bald cypress (*Taxodium distichum*), wax myrtle, fetterbush (*Lyonia lucida*), tall gallberry (*Ilex coriacea*), yaupon holly, sweetbay (*Magnolia virginiana*), cabbage palm (*Sabal palmetto),* swamp bay (*Persea palustris*), Carolina willow (*Salix caroliniana*), Virginia chain fern (*Woodwardia virginica*), royal fern (*Osmunda regalis*), and sawgrass (*Cladium jamaicense*). The land uses surrounding the project area consists of residential development, recreational lands, and some undeveloped natural areas both forested and non-forested.

PROPOSED WORK: The applicant seeks authorization to impact waters of the United States by the following activities:

Project Impacts Summary Table	Area (SQ. FT.)	Area (Acre)
Wetland and SAV – Mitigation Required	**1,951**	**0.04**
Timber Fishing Pier Extension (Shading)	93	0.00
Southwest Parking Area (Secondary)	1,161	0.03
Boardwalk Improvements (Fill/Shading)	690	0.02
Pond Boardwalk (Fill)	7	0.00
Surface Water – No Mitigation Required	**87,189**	**2.00**
Timber Fishing Pier Extension	2,120	0.05
Boardwalk Improvements	297	0.01
Pond Boardwalk	1,928	0.04
Breakwaters	8,760	0.20
Mooring Dock	1,571	0.04
ADA Paddlecraft Launch	360	0.01
Boat Ramp Facilities	9,825	0.23
Access Piers	4,275	0.10
Boat Ramp	5,550	0.13
Mechanical Dredging	18,600	0.43
Boat Ramp	14,600	0.34
Mooring Dock with Pump Out	4,000	0.09
Riprap Replacement	7,098	0.16
Upland-Cut Stormwater Pond Removal	6,000	0.14
Sand Shoreline	2,205	0.05
Existing Structure Improvements – No Mitigation Required	**16,381**	**0.38**
Timber Fishing Pier Repair	1,860	0.04
Timber Fishing Pier Removal	1,756	0.04
Boardwalk Improvements	2,718	0.06
Riprap Placement	10,047	0.23

Table 1: Project Impacts Summary Table

AVOIDANCE AND MINIMIZATION INFORMATION – The applicant has provided the following information in support of efforts to avoid and/or minimize impacts to the aquatic environment:

NRDA Documentation includes the copies of the results of all agency coordination completed for this project to date, including consultation with the USFWS regarding the Bald & Golden Eagle Protection Act, Coastal Barrier Resources Act, Endangered Species Act, Marina Mammal Protection Act, and the Migratory Bird Treaty Act. Consultation with NMFS regarding the Endangered Species, Essential Fish Habitat and Marine Mammal Protection Act is ongoing, though the project is expected to have a neutral, if not beneficial, impact on the resources protected by those acts.

The application includes the portion of the *Final Restoration Plan 1 And Environmental Assessment* pertaining to the Joe's Bayou Recreation Improvements Project. This document, developed by the Florida Trustee Implementation Group (the group responsible for restoring natural resources and their services within the Florida Restoration Area affected by the Deepwater Horizon oil spill) to guide and direct ecosystem-level restoration based on distinct restoration goals, includes the proposed

Joe's Bayou Recreation Area Improvements Project as one of the restoration alternatives evaluated for compliance with the Oil Pollution Act and the National Environmental Policy Act. A full copy of this report can be found at the following link: https://www.fws.gov/doiddata/dwh-ar-documents/1942/DWH-ARZ002430.pdf

Natural Resource Survey includes the results of an August 2021 survey. During that survey, Taylor Engineering staff located the extents of submerged aquatic vegetation (SAV), wetland vegetation, and invasive species within the vicinity of the project area. Based on the wetland extents identified during the August 2021 survey, Attachment 14 includes the Jurisdictional Determination (File No. SAJ-2021-03967(JD-EPS0) issued for the project site on March 1, 2022, which found 8.67 acres of wetlands or other waters above the MHWL. However, this acreage includes the small holding pond that was later determined to be non-jurisdictional as it was cut from the uplands in the 1990's under NPDES Permit No. FL110357-001.

While wetland and submerged aquatic vegetation (SAV) habitats are documented within the project area, the proposed structure layout incorporates significant avoidance and minimization to minimize potential impacts to the greatest extent practicable. Notably, outside of activities associated with demolition/replacement/extension of the fishing pier, all structures have been sited to avoid seagrass and will be required to maintain a 3-ft offset from any existing seagrass habitat at the time of construction. All impacts to Joe's Bayou associated with the proposed shoreline protection measures are correlated with unvegetated surface waters and a 3-ft buffer from any seagrass beds will be maintained at all times. For all other structures (other than the fishing pier), structures have been sited to avoid seagrass and will be required to maintain a 3-ft offset from any existing seagrass habitat at the time of construction. For the fishing pier, seagrass habitat currently exists beneath the pier. While there is a small area (93 SF) of unavoidable seagrass impacts related to the extension of the pier, demolition of the current shore connection and replacement in a different location will help to enhance the seagrass habitat currently beneath existing shore connection. Additionally, elevating the pier to 4.5 ft above the MHWL for protection from storm-related impacts will have the added benefit of reducing shading impacts to the seagrass habitat currently beneath the fishing pier. Grated decking will also be incorporated along portions of the pier to allow increased light penetration and reduce wave uplift forces. Timber handrails shall also be installed along both sides of the primary access ramp to deter vessels mooring above seagrass beds.

For the proposed shore protection features, the structures have been designed to armor the site to mitigate erosion, stabilize the shoreline, and shelter areas of natural shoreline. In combination with the proposed enhancements to the boating-related facilities, the proposed shoreline protection measures will help to increase the site's resilience and accommodate patrons more effectively. The Coastal Conditions & Waterfront Structure Planning Assessment, the site's susceptibility to both boat wakes and wind-generated waves, together with the need for long-term, sustainable shoreline protection necessitates a hardened structure. With this in mind, and considering the design goals of the project, the coastal conditions, existing natural resources, and the

relatively long length of shoreline in need of protection, the project proposes to include a segmented breakwater system. The segmented breakwater system will increase storm resilience for upland property and infrastructure by dissipating incident wave energy and providing calmer conditions landward of the structures suitable for habitat restoration and seagrass recruitment. Gaps within the proposed breakwaters will maintain hydraulic connectivity and circulation between proposed saltmarsh restoration, seagrass recruitment areas, and Joes Bayou. Structure gaps will minimize the breakwater's effect on water quality, allowing adequate flushing and not restricting water circulation. The gaps will also minimize the potential for the structures to entrap marine mammals. The breakwaters, constructed of natural materials such as granite or limestone, will also provide suitable substrate for oyster colonization and essential fish habitat. To provide adaptive management to sea level rise, the breakwaters have been designed such that additional stone of the same size can be added to the top of the structures without increasing the structure footprint.
For wetlands, an upland buffer will be provided between the proposed activities and existing wetlands or wetlands to be preserved, enhanced, restored, or created where possible. Where this buffer cannot be provided, work will be limited to the existing structure footprint to the maximum extent practicable. The fishing pier will also generally be reconstructed in place (other than the extension) in order to minimize potential effects to the adjacent seagrass habitat. Notably, the both the fishing pier replacement and the proposed enhancements to the boardwalk that crosses through the wetlands within Mattie Kelly Park and Nature Walk have been designed such that the existing piles will be reused as much as possible, with the only new piles being those associated with the proposed bump-outs (for the boardwalk), the new shore connection and extension (for the fishing pier) or to replace those few piles that were deemed not structurally sound and in need of repair. Additionally, construction will be sequenced such that construction activities will take place from either the uplands or from the structure itself, limiting any impacts to the construction footprint.

In addition to the siting and construction sequencing considerations detailed above, to avoid and/or minimize impacts to wetlands and SAV, all activities will adhere to guidelines set forth in the state and federal environmental permits including best management practices to prevent violation of state water quality standards at the project site. During construction, turbidity curtains and erosion controls shall be required to line the work area to assure water quality standards are maintained throughout construction. The erosion control measures shall be maintained and shall remain in place until all construction is complete and turbidity levels in the project area meet regulatory standards. A biologist will assist the contractor in locating and marking seagrass bed edges prior to construction to ensure existing aquatic resources are protected. Below the MHWL, structures incorporate non-leaching materials (i.e., wrapped timber piles) to reduce the potential for contaminants within the water. In the long-term, water quality should not be impacted by the materials in contact with the water column. Additionally, it is anticipated that once the proposed structures are in place, continued erosion of the shoreline will be eliminated, reducing potential impacts from turbidity/pollution.

COMPENSATORY MITIGATION – The applicant has offered the following compensatory mitigation plan to offset unavoidable functional loss to the aquatic environment:

The applicant has provided the following explanation why compensatory mitigation should not be required:

While there are some unavoidable and incidental impacts to wetlands (1,858 SF) and seagrass (98 SF), that any functional loss incurred because of impacts to aquatic resources will be offset by the functional gain calculated from the preservation, restoration, enhancement, and creation activities identified in the improvement plan.

CULTURAL RESOURCES:

The Corps is evaluating the undertaking for effects to historic properties as required under Section 106 of the National Historic Preservation Act. This public notice serves to inform the public of the proposed undertaking and invites comments including those from local, State, and Federal government Agencies with respect to historic resources. Our final determination relative to historic resource impacts may be subject to additional coordination with the State Historic Preservation Officer, those federally recognized tribes with concerns in Florida and the Permit Area, and other interested parties.

The Applicant has stated that Phase I Cultural Resources Assessment Survey for the Joe's Bayou Recreation Area, a survey was performed in June 2018 by Panamerican Consultants, Inc. These exposed ground inspection searches evaluated that the site is disturbed, and remaining deposits lack integrity and any research potential. The Phase I historical and archaeological survey did not result in the documentation of historic or prehistoric artifacts or sites. While the survey noted the old cement plant area could be considered a historic site since the plant was built in 1958, demolition of the plant has left nothing except scattered and highly disturbed debris. As such, development of the Joe's Bayou Recreation APE will not negatively impact any significant historic deposits, human remains, sacred objects, or sites of sacred or historic significance. Notably, consultation with the Department of the Interior in regards to Section 106 of the National Historic Preservation Act has also been completed.

ENDANGERED SPECIES:

The Corps has determined the proposal may affect the gulf sturgeon or its designated critical habitat. The Corps will request initiation of formal consultation with the Fish and Wildlife Service/National Marine Fisheries Service pursuant to Section 7 of the Endangered Species Act by separate letter.

The Applicant has stated that a Natural Resource Survey was conducted and includes a table of listed species that may occur within the boundaries of Joe's Bayou Recreation Area survey area (Table 4.2) based on a review of the FWC list of imperiled species,

the FNAI database, and USFWS Information for Planning and Consultation (IPaC). Notably, during the natural resource survey Taylor conducted preliminary site reviews for these species and their habitat but did not complete formal species surveys. During the site visit, no listed species were observed on site. Consultation with USFWS has already been completed. Additionally, per the Effect Determination Key for the West Indian Manatee, the project is “not likely to adversely affect” the West Indian Manatee (Attachment 15). For all other species, the project will incorporate best management practices to avoid impacts to fish, wildlife, and their habitats. The contractor will be required to comply with the Standard Manatee Conditions for In-Water Work (2011), Protected Species Construction Conditions (2021), the Vessel Strike Avoidance Measures (2021) and the Measures for Reducing Entrapment Risk to Protected Species (2012) during all in-water construction activities, as well as the Standard Protection Measures for the Eastern Indigo Snake (2021) during all work in the uplands. All mariners, including contractors, will be cautioned to keep a sharp look out for manatees and report any sightings to other vessels operating in the area. All work will be limited to daylight hours. Additionally, the contractor will be required to implement all applicable USACE Jacksonville Districts Programmatic Biological Opinion (JAXBO) Project Design Criteria in order to safeguard the gulf sturgeon critical habitat within which the project is located.

ESSENTIAL FISH HABITAT (EFH): This notice initiates consultation with the National Marine Fisheries Service on EFH as required by the Magnuson-Stevens Fishery Conservation and Management Act 1996. The proposal would impact approximately 0.95 acres of submerged aquatic vegetation habitat utilized by various life stages of highly motile red drum, reef fish, shrimp, coastal migratory pelagics, bull shark and spinner shark. Our initial determination is that the proposed actions would not have a substantial adverse impact on EFH or Federally managed fisheries in Joe’s Bayou. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

The Applicant states that consultation with NMFS regarding the Endangered Species, Essential Fish Habitat and Marine Mammal Protection Act is ongoing, though the project is expected to have a neutral, if not beneficial, impact on the resources protected by those acts.

NAVIGATION: The proposed activities are not located in the vicinity of a federal navigation channel.

SECTION 408: The applicant will require permission under Section 14 of the Rivers and Harbors Act (33 USC 408) because the activity, in whole or in part, would not alter, occupy, or use a Corps Civil Works project.

NOTE: This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program. The jurisdictional line has not been verified by Corps personnel.

COMMENTS regarding the potential authorization of the work proposed should be submitted in writing to the attention of the District Engineer through the Technical Regional Execution Center on behalf of the Pensacola Permits Section, 600 Vestavia Parkway, Suite 203, Vestavia Hills, Alabama, 35216 within 30 days from the date of this notice.

The decision whether to issue or deny this permit application will be based on the information received from this public notice and the evaluation of the probable impact to the associated wetlands. This is based on an analysis of the applicant's avoidance and minimization efforts for the project, as well as the compensatory mitigation proposed.

QUESTIONS concerning this application should be directed to the project manager, Sarah Whorton, in writing at the Technical Regional Execution Center on behalf of the Pensacola Permits Section, 600 Vestavia Parkway, Suite 203, Vestavia Hills, Alabama, 35216; by electronic mail at Sarah.M.Whorton@usace.army.mil; or by telephone at (205)767-4912.

IMPACT ON NATURAL RESOURCES: Coordination with U.S. Fish and Wildlife Service, Environmental Protection Agency (EPA), the National Marine Fisheries Services, and other Federal, State, and local agencies, environmental groups, and concerned citizens generally yields pertinent environmental information that is instrumental in determining the impact the proposed action will have on the natural resources of the area.

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food, and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people.

Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act or the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972.

The US Army Corps of Engineers (Corps) is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other Interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue,

modify, condition, or deny a permit for this proposal. To make this determination, comments are used to assess impacts to endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

WATER QUALITY CERTIFICATION: Water Quality Certification may be required from the Florida Department of Environmental Protection (FDEP).

COASTAL ZONE MANAGEMENT CONSISTENCY: In Florida, the State approval constitutes compliance with the approved Coastal Zone Management Plan.

REQUEST FOR PUBLIC HEARING: Any person may request a public hearing. The request must be submitted in writing to the District Engineer within the designated comment period of the notice and must state the specific reasons for requesting the public hearing.

DEPARTMENT OF THE ARMY PERMIT APPLICATION

MAY 2024

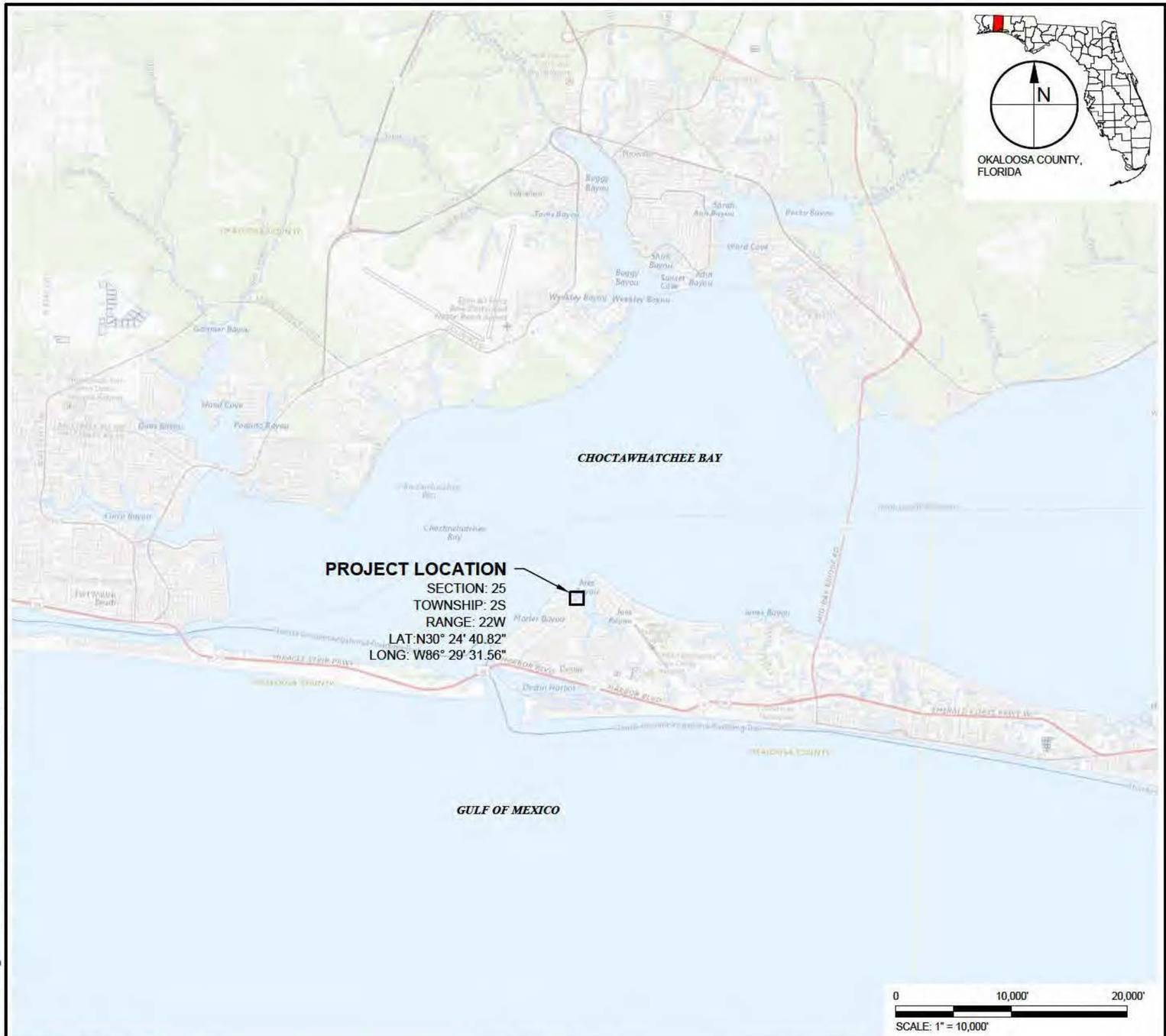
JOE'S BAYOU RECREATION AREA IMPROVEMENTS PROJECT
CITY OF DESTIN
OKALOOSA COUNTY, FLORIDA

ATTACHMENT 1

PERMIT DRAWINGS
(SHORE PROTECTION & WATERFRONT ACCESS)

JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT

CITY OF DESTIN, FLORIDA



PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.
NOT FOR CONSTRUCTION

DRAWING INDEX

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FIG 3	GENERAL NOTES
FIG 4	GENERAL NOTES
FIG 5	GENERAL NOTES
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FIG 7	REGULATORY PERMIT QUANTITIES
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PROJECT	C2021-045	
DRAWN BY	AF	
SHEET	1 of 24	
DATE	DEC 2023	

FIGURE 1
TITLE SHEET
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

CONTRACT MANAGER
PEARCE L. BARRETT III, P.E., F.C.C.M.
DEEPWATER HORIZON PROGRAM DIVISION OF WATER RESTORATION ASSISTANCE
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
3900 COMMONWEALTH BOULEVARD, MS 240
TALLAHASSEE, FLORIDA 32399
850-245-2106
PEARCE.BARRETT@FLORIDADEP.GOV

ENGINEER CONTACT
DUNCAN GREER, P.E.
PROJECT MANAGER
TAYLOR ENGINEERING, INC.
4300 LEGENDARY DRIVE, SUITE C246
DESTIN, FLORIDA 32541
850-460-7040
DGREER@TAYLORENGINEERING.COM

PROPERTY OWNER CONTACT
JEFF COZADD
PROJECTS/GRANTS/CONTRACTS MANAGER
CITY OF DESTIN |OFFICE OF THE CITY MANAGER
4200 INDIAN BAYOU TRAIL
DESTIN, FLORIDA 32541
850-279-4228
JCOZADD@CITYOFDESTIN.COM

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY #4815

SEAL

DRAFT

DUNCAN GREER P.E.#83306

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

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GENERAL NOTES:

1. DRAWING REFERENCES THE FLORIDA STATE PLANE EAST, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ALL ELEVATIONS REFERENCE THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88). ELEVATIONS IN FEET UNLESS NOTED OTHERWISE.
3. AERIAL IMAGERY RECORDED BY TAYLOR ENGINEERING, INC., AUGUST 27, 2021. AERIAL IMAGERY SUPPLEMENTED WITH GOOGLE EARTH, 2021. AERIAL IMAGERY IS FOR INFORMATIONAL PURPOSES ONLY, NO ACCURACY IS IMPLIED.
4. EXISTING STORMWATER PONDS AND PARKING PERMITTED UNDER THE MATTIE KELLY PARKING LOT PERMIT (FDEP PERMIT NO. 40-0137613-001-RG, ISSUED MARCH 31, 1998) AND THE JOES BAYOU BOAT RAMP PHASE I PERMIT (FDEP PERMIT NO. 46-0153129-001-RG, ISSUED APRIL 15, 1999).
5. EXISTING FILL AND RIPRAP PLACED ALONG SHORELINE UNDER THE JOE'S BAYOU BEACH STABILIZATION PERMIT (FDEP PERMIT NO. 0150293-001-DF, ISSUED APRIL 29, 1999), THE JOES BAYOU BOAT RAMP RIPRAP PERMIT (FDEP PERMIT NO. 46-0139736-001-DF, ISSUED MAY 6, 1998, AND FDEP PERMIT NO. 46-0139736-002-DE, ISSUED APRIL 13, 1998), AND THE CHOCTAWHATCHEE BASIN ALLIANCE SHORELINE RESTORATION PERMIT (USACE PERMIT NO. SAJ-2009-01360 (NW-MMW), ISSUED JUNE 4, 2009).
6. BOAT RAMP PERMITTED UNDER THE JOE'S BAYOU PERMIT (FDEP PERMIT NO. 0142030-001-DF, ISSUED APRIL 7, 1999).
7. THE FISHING PIER AND BOARDWALKS WITHIN MATTIE KELLY PARK PERMITTED UNDER THE MATTIE KELLY PARK PERMIT (FDEP PERMIT NO. 46-0295766-001, ISSUED, DECEMBER 20, 1996, AND USACE PERMIT NO. 199260947 (LP-DB), ISSUED APRIL 14, 1997).
8. THE HOLDING POND WAS AUTHORIZED UNDER THE READY-MIX USA DESTIN PLANT PERMIT (FDEP PERMIT NO. FLG110357-001-IWCB, ISSUED FEBRUARY 22, 2002, AND MODIFIED AUGUST 24, 2005; JANUARY 11, 2012; AND SEPTEMBER 23, 2011.
9. HYDROGRAPHIC SURVEY PERFORMED BY SEASIDE ENGINEERING AND SURVEYING, LLC, AUGUST 19, 2021.
10. MEAN HIGH-WATER LINE (MHWL) LOCATED BY SEASIDE ENGINEERING AND SURVEYING, LLC, SEPTEMBER 1-3, 2021.
11. BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED BY SEASIDE ENGINEERING AND SURVEYING, LLC, OCTOBER 7, 2021.
12. JURISDICTIONAL WETLANDS, SUBMERGED AQUATIC RESOURCES, AND INVASIVE SPECIES EXTENTS SURVEYED BY TAYLOR ENGINEERING, INC., AUGUST 23-27, 2021.
13. FORMAL DETERMINATION OF THE LANDWARD EXTEND OF WETLANDS AND OTHER SURFACE WATERS ISSUED BY THE FDEP FOR THIS PROJECT SITE ON AUGUST 16, 2022 (FDEP FILE NO. 0142030-002-FD/46).
14. APPROVED JURISDICTIONAL DETERMINATION (AJD) ISSUED BY THE USACE FOR THE UPLAND/WETLAND BOUNDARY FOR THIS PROJECT SITE ON MARCH 1, 2022 (USACE FILE NO. SAJ-2021-03967). THE LIMITS OF FEDERAL JURISDICTION (THE HIGH TIDE LINE) ALONG JOE'S BAYOU WERE NOT IDENTIFIED OR VERIFIED FOR THIS SITE AS PART OF THIS AJD.
15. SEAGRASS LOCATIONS SHOWN HEREIN MAY EXTEND WATERWARD BEYOND THE SURVEY LIMITS. A PRECONSTRUCTION SEAGRASS SURVEY SHALL BE PERFORMED TO CONFIRM SEAGRASS LOCATIONS IMMEDIATELY PRIOR TO CONSTRUCTION.
16. TIDAL DATUM OBTAINED FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, DEC 2023. SITE USES TIDAL DATUM FOR NOAA STATION 8729511 DESTIN, EAST PASS, FL.
17. WORK VESSELS (E.G., BARGES, TUGS, ETC.) SHALL MAINTAIN AT LEAST 1 FT OF CLEAR DISTANCE BETWEEN THE LOWEST DRAFT OF THE VESSEL AND THE BOTTOM. NO SPUDDING IS ALLOWED OVER SEAGRASS.
18. DREDGING IS PROPOSED TO A DEPTH OF -6 FT (NAVD88) WITHIN JOES' BAYOU.
19. NO IMPACT TO MANGROVES OR SALT MARSH IS PROPOSED.
20. IMPACTS TO WETLAND CONIFEROUS FORESTS AND NON-FORESTED FRESHWATER WETLANDS WILL BE COMPENSATED BY THE PROPOSED MANAGEMENT OF INVASIVE SPECIES ACROSS THE PROJECT SITE AND LITTORAL ZONE ENHANCEMENTS WITHIN THE LARGE STORMWATER POND.
21. IMPACTS TO SUBMERGED AQUATIC VEGETATION HAVE BEEN MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE AND ARE LIMITED TO SHADING IMPACTS ASSOCIATED WITH THE EXPANSION OF THE TIMBER FISHING PIER. OVER SEAGRASS, THE FISHING PIER IS APPROXIMATELY 4.5 FT ABOVE THE MHWL AND 7.5 FT ABOVE THE SEAFLOOR. DECKBOARDS WILL BE SPACED AT LEAST ½ INCH APART WHILE ANY NEW PILINGS WILL BE SPACED 10 FT ON CENTER. EXISTING PILINGS WILL BE UTILIZED FOR PORTIONS OF THE PIER TO BE RECONSTRUCTED TO FURTHER MINIMIZE ANY POTENTIAL IMPACTS.
22. SHADING IMPACTS TO SEAGRASSES WILL BE COMPENSATED BY ANTICIPATED RECRUITMENT BEHIND THE BREAKWATERS WITHIN THE "SEAGRASS RECRUITMENT AREA". PROP SCAR AND ANCHOR SCAR RESTORATION WITHIN THE "SEAGRASS PRESERVATION AREA", IF CONDUCTED, WILL SUPPLEMENT THIS COMPENSATION.
23. AS NEEDED, REVETMENTS WILL BE FIELD FIT TO ENSURE A MINIMUM 3-FT BUFFER BETWEEN ANY PROPOSED STRUCTURES AND EXISTING SEAGRASS.
24. CONSTRUCTION SHALL NOT IMPACT CULTURAL RESOURCES. SEE PERMIT CONDITIONS FOR ADDITIONAL REQUIREMENTS.
25. CONSTRUCTION SHALL NOT VIOLATE STATE WATER QUALITY STANDARDS.
26. MATERIAL QUANTITIES AND AREAS ARE ESTIMATED BASED ON THE EXISTING CONDITIONS AT THE TIME OF THE SURVEYS LISTED ABOVE.
27. TURBIDITY CURTAINS AND/OR SILT FENCES SHALL SURROUND ACTIVE WORK AREAS. TURBIDITY CURTAINS AND/OR SILT FENCES SHALL BE LOCATED AND REPOSITIONED BY THE CONTRACTOR USING BEST MANAGEMENT PRACTICES TO ASSURE WATER QUALITY STANDARDS ARE MAINTAINED THROUGHOUT CONSTRUCTION. PROPER INSTALLATION AND MONITORING WILL ENSURE LISTED SPECIES DO NOT BECOME ENTANGLED OR TRAPPED BY THE CURTAINS AND IMPACTS TO ADJACENT SEAGRASSES OR WETLANDS DOES NOT OCCUR.
28. SOLAR POWERED LIGHTS WILL BE AFFIXED TO THE TERMINAL END OF THE PIERS FOR NAVIGATION SAFETY AS REQUIRED BY USCG REGULATIONS.
29. EDUCATIONAL SIGNS WILL BE INCORPORATED AS APPROPRIATE AND WILL INCLUDE ALL SIGNS AS REQUIRED BY THE FLORIDA FISH AND WILDLIFE COMMISSION AND THE NATIONAL MARINE FISHERIES SERVICE.
30. THE APPLICANT INTENDS TO MAINTAIN FLEXIBLE MOORING WITHIN THIS FACILITY. ANTICIPATED VESSEL LENGTHS RANGE FROM 16 TO 32 FT.
31. THE MAXIMUM DRAFT OF MOORED VESSELS SHALL MAINTAIN GREATER THAN 1 FT OF CLEARANCE WITH THE BOTTOM AT MEAN LOWER LOW WATER.
32. MOORED VESSELS SHALL REMAIN WITHIN THE DESIGNATED SLIP BOUNDARIES.
30. THESE PLANS ARE IN PRELIMINARY FORM FOR REGULATORY REVIEW. THESE PLANS ARE NOT FOR CONSTRUCTION. QUANTITIES ARE ESTIMATED AND SUBJECT TO CHANGE.

GENERAL STONE BREAKWATER NOTES

1. BREAKWATER CONSTRUCTION SHALL BE WATER-BASED TO THE GREATEST EXTENT PRACTICAL. IF NEARSHORE WATER DEPTHS PRECLUDE WORK VESSEL ACCESS, CONTRACTOR MAY USE LOW-PRESSURE TRACK EQUIPMENT TO ACCESS SHALLOW DEPTHS.
2. BREAKWATERS SHALL INCORPORATE A MINIMUM OF TWO LAYERS OF ARMOR STONE. CHINKING STONE SHALL BE INCORPORATED WITHIN THE ARMOR STONE LAYERS.
   a. THE BOTTOM LAYER OF BREAKWATER SHALL BE BEDDING STONE (12" THICK).
   b. CREST WIDTH OF BREAKWATERS IS 5 FT AT AN ELEVATION AROUND +3 FT (NAVD88). BREAKWATERS SHALL EXTEND 2 FT TO 3 FT ABOVE THE WATER'S SURFACE DURING NORMAL CONDITIONS
   c. BREAKWATERS WILL LOCATE BETWEEN 35 FT – 265 FT FROM THE MEAN HIGH-WATER LINE. CONFIGURATION OF BREAKWATERS IS SUBJECT TO ALTERATION DURING FINAL DESIGN BUT WILL AVOID PLACEMENT ON OR OVER SEAGRASS AT ALL TIMES.
3. MATERIALS ARE SUBJECT TO CHANGE BUT WILL CONSIST OF CLEAN, NON-LEACHING MATERIALS SUCH AS LIMESTONE, GRANITE, CONCRETE, OR SIMILAR AND WILL BE FREE OF ALL POLLUTANTS. BREAKWATER DIMENSIONS AND PLAN VIEW LOCATIONS MAY BE REVISED DURING FINAL DESIGN BUT WILL AVOID PLACEMENT ON OR OVER SEAGRASS AT ALL TIMES.

GENERAL RIPRAP NOTES

1. NEW CONSTRUCTION, REPAIR, REPLACEMENT, AND/OR REMOVAL OF RIPRAP SHALL BE WATER-BASED TO THE GREATEST EXTENT PRACTICAL. IF NEARSHORE WATER DEPTHS PRECLUDE WORK VESSEL ACCESS, CONTRACTOR MAY USE LOW-PRESSURE TRACK EQUIPMENT TO ACCESS SHALLOW DEPTHS.
2. RIPRAP SHORE AND TOE PROTECTION FEATURES ARE INTENDED TO PROTECT THE PROPOSED STRUCTURES, MITIGATE EFFECTS OF SEA LEVEL RISE, INCREASE STORM RESILIENCY, AND ENHANCE PRODUCTIVITY OF EXISTING SHORELINE AND SALT MARSH HABITATS. THESE STRUCTURES WILL ALSO PROVIDE OYSTER HABITAT.
   a. RIPRAP SHORE AND TOE PROTECTION FEATURES WILL BE COMPRISED OF ARMOR STONES, WITHOUT BEDDING FOUNDATION, THAT ARE OF SUFFICIENTLY MASSIVE TO REMAIN IN PLACE DURING A 20-YR RETURN PERIOD STORM CONDITION.
   b. IN LOCATIONS WHERE THE PROPOSED RIPRAP IS INTENDED TO BE USED AS A SHORE PROTECTION FEATURE, GEOTEXTILE FILTER FABRIC WILL BE INSTALLED PRIOR TO THE PLACEMENT OF ARMOR STONES.
   c. IN LOCATIONS WHERE PROPOSED RIPRAP IS INTENDED TO BE USED AS A TOE PROTECTION FEATURE, ARMOR STONE WILL BE PLACED DIRECTLY ATOP THE EXISTING GRADE IN SUCH MANNER TO ENSURE STABILITY. AS NEEDED, EXISTING RIPRAP MAY BE REMOVED OR REGRADED BASED ON THE SPECIFICATIONS HEREIN.
   d. CREST WIDTH OF RIPRAP SHORE PROTECTION FEAURES IS 3 FT AT AN ELEVATION AROUND +4 FT (NAVD88). RIPRAP SHORE PROTECTION FEAURES SHALL EXTEND 2 FT TO 3 FT ABOVE THE WATER'S SURFACE DURING NORMAL CONDITIONS. AS NEEDED, CLEAN SAND FILL MAY BE USED AS BACKFILL TO TIE THE SHORE PROTECTION FEATURES INTO THE EXISTING GRADE.
   e. CREST WIDTH OF RIPRAP TOE PROTECTION FEATURES VARIES FROM 1-3 FT AT ELEVATION 4 FT (NAVD88), DEPENDING ON LOCATION. IN THE VICINITY OF THE SEAWALL, TOE PROTECTION FEATURES WILL EXTEND 1 – 5 FT FROM THE SEAWALL. IN THE VICINITY OF THE BOATING FACILTIES, TOE PROTECTION FEATURES WILL EXTEND 5 FT FROM THE CONCRETE BOAT RAMP(S) AND 8 FT FROM THE SHEETPILE WALL.
   f. RIPRAP SHORE PROTECTION FEATURES WILL LOCATE BETWEEN 0 – 20 FT FROM THE MEAN HIGH-WATER LINE.
   g. IN THE VICINITY OF THE SEAWALL, TOE PROTECTION FEATURES WILL EXTEND 0 - 15 FT FROM THE MEAN HIGH-WATER LINE. IN THE VICINITY OF THE BOATING FACILTIES, TOE PROTECTION FEATURES WILL EXTEND 0 – 75 FT FROM THE MEAN HIGH-WATER LINE.
   h. THE EXACT LOCATION OF THE RIPRAP SHORE AND TOE PROTECTION FEATURES ARE SUBJECT TO ALTERATION DURING CONSTRUCTION AND WILL BE BASED ON FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. PLACEMENT OF ARMOR STONE ON OR OVER SEAGRASS OR SALT MARSH WILL BE AVOIDED AT ALL TIMES. A MINIMUM 3-FT BUFFER WILL BE MAINTAINED BETWEEN ANY NEW RIPRAP AND ANY SEAGRASS IDENTIFIED AT THE TIME OF CONSTRUCTION.
3. MATERIALS ARE SUBJECT TO CHANGE BUT WILL CONSIST OF CLEAN, NON-LEACHING MATERIALS SUCH AS LIMESTONE, GRANITE, CONCRETE, OR SIMILAR AND WILL BE FREE OF ALL POLLUTANTS. REVETMENT DIMENSIONS AND PLAN VIEW LOCATIONS MAY BE REVISED DURING FINAL DESIGN BUT WILL AVOID PLACEMENT ON OR OVER SEAGRASS AT ALL TIMES.

GENERAL PILE-SUPPORTED STRUCTURES NOTES

1. PILE INSTALLATION FOR IN-WATER FEATURES SHALL BE WATER-BASED TO THE GREATEST EXTENT PRACTICAL. IF NEARSHORE OR POND WATER DEPTHS PRECLUDE WORK VESSEL ACCESS, CONTRACTOR MAY USE LOW-PRESSURE TRACK EQUIPMENT TO ACCESS SHALLOW DEPTHS.
2. PILE INSTALLATION ASSOCIATED WITH THE MATTIE KELLY PARK BOARDWALK WILL BE LIMITED TO THE PROPOSED BOARDWALK BUMP-OUTS. OTHERWISE, THE EXISTING PILES WILL BE REUSED FOR THE BOARDWALK ENHANCEMENT ASPECT OF THE PROJECT. TO THE GREATEST EXTENT PRACTICAL, PILES WILL BE INSTALLED FROM THE EXISTING STRUCTURE TO LIMIT WETLAND IMPACTS.
3. PILE INSTALLATION ASSOCIATED WITH THE TIMBER FISHING PIER WILL BE LIMITED TO THE PROPOSED FISHING PIER EXPANSION. EXISTING PILINGS WILL BE UTILIZED FOR PORTIONS OF THE PIER TO BE RECONSTRUCTED TO MINIMIZE ANY POTENTIAL IMPACTS. ANY NEW PILINGS WILL BE SPACED 10 FT ON CENTER.
4. NO OVER-WATER FUELING FACILITIES (PUMPS OR PERMANENT PLUMBING), LIVEABOARDS, OR SEWAGE PUMP-OUTS ARE PROPOSED.
5. AN EXISTING SEWAGE PUMP-OUT CURRENTLY LOCATED ON A TIMBER PIER WITHIN THE BOAT RAMP AREA WILL BE REMOVED DUE TO LACK OF USE. THIS WILL MINIMIZE POTENTIAL IMPACTS TO SWIMMERS OR PADDLECRAFT USERS WITHIN THE BEACH AREA.
6. STRUCTURE ELEVATIONS AND CONSTRUCTION MATERIALS ARE SUBJECT TO CHANGE IN THE FINAL DESIGN. PILE EMBEDMENT AND DIMENSIONS WILL BE DETERMINED DURING FINAL DESIGN.

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FIGURE 2
GENERAL NOTES
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY #4815

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

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7. TREATED TIMBER PILINGS WILL BE WRAPPED OR OTHERWISE MADE OF NON-LEACHING MATERIALS.

8. PILINGS ASSOCIATED WITH THE BOAT RAMP FACILITY, MOORING PIER, OR FISHING PIER WILL BE INSTALLED BY A COMBINATION OF JETTING AND IMPACT HAMMER. CONTRACTOR TO UTILIZE TURBIDITY CURTIANS TO AVOID ALL IMPACTS TO AQUATIC VEGETATION.

9. PILINGS ASSOCIATED WITH THE POND BOARDWALK WILL BE INSTALLED BY A COMBINATION OF JETTING AND IMPACT HAMMER. CONTRACTOR TO UTILIZE SILT FENCES TO AVOID ALL UNPERMITTED IMPACTS TO WETLAND VEGETATION. FOLLOWING PILE INSTALLATION, TOP-SIDE CONSTRUCTION OF THE BOARDWALK WILL PROCEED SEQUENTIALLY ACROSS THE POND.

10. PILINGS ASSOCIATED WITH THE MATTIE KELLY PARK BOARDWALK BUMPOUTS WILL BE INSTALLED BY [A COMBINATION OF] JETTING AND/OR IMPACT HAMMER. CONTRACTOR TO UTILIZE SILT FENCES TO AVOID ALL UNPERMITTED IMPACTS TO WETLAND VEGETATION.

11. FOLLOWING PILE INSTALLATION, TOP-SIDE CONSTRUCTION ACTIVITIES WILL BE PERFORMED IN A SEQUENTIAL FASHION, STARTING WITH INSTALLATION OF DECK BOARDS, FOLLOWED BY HANDRAILS (IF APPLICABLE), AND THEN ANY AUXILLARY STRUCTURES SUCH AS THE SHADE STRUCTURES, SIGNAGE, OR THE ADA -ACCESSIBLE PADDLECRAFT LAUNCHING/LANDING FACILITY.

12. FOR ANY OF THE PROPOSED PIERS WITHIN JOES' BAYOU, TOP-SIDE CONSTRUCTION AND/OR REPAIR WILL START ON LAND AND PROCEED TO THE SEAWARD MOST POINT OF THE STRUCTURE. TOP-SIDE CONSTRUCTION OF THE POND BOARDWALK WILL PROCEED SEQUENTIALLY ACROSS THE POND. TOP-SIDE RECONSTRUCTION AND ENHANCEMENT ACTIVITIES ASSOCIATED WITH THE MATTIE KELLY PARK BOARDWALK WILL START IN THE PARKING LOT(S) AND PROCEED INTO THE WETLAND.

GENERAL SHEET PILE NOTES

1. SHEET PILE INSTALLATION SHALL BE CONDUCTED VIA A COMBINATION OF LAND-BASED AND WATER-BASED METHODS. IF WORK MUST BE CONDUCTED IN THE NEARSHORE, CONTRACTOR MAY USE LOW-PRESSURE TRACK EQUIPMENT TO ACCESS SHALLOW DEPTHS.

2. SHEET PILES WILL BE INSTALLED BY A COMBINATION OF JETTING AND IMPACT HAMMER. CONTRACTOR TO UTILIZE TURBIDITY CURTAINS TO AVOID ALL IMPACTS TO AQUATIC VEGETATION. TURBIDITY CURTAINS SHALL BE SITUATED AND ANCHORED IN SUCH A WAY TO AVOID IMPACTS TO SEAGRASS.

3. SHEET PILES WILL BE INSTALLED AT VARIOUS LOCATIONS AROUND THE PROJECT SITE, SOME OF WHICH WILL BE TEMPORARY IN NATURE.

   a. THE PERMANANENT SHEET PILE WALLS ARE INTENDED TO PROTECT THE PROPOSED STRUCTURES, MITIGATE EFFECTS OF SEA LEVEL RISE, AND INCREASE STORM RESILIENCY.

   b. THE TEMPORARY SHEET PILE WALLS ARE INTENDED TO FORM A COFFERDAM AROUND THE PROPOSED BOAT RAMPS FOR DEWATERING. FOLLOWING COMPLETION OF THE EXCAVATION AND CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE CONCRETE BOAT RAMPS, THE TEMPORARY COFFERDAM SHALL BE REMOVED.

4. SHEET PILE WALLS WILL BE INSTALLED IN VARIOUS CONFIGURATIONS: A SHORE-PARALLEL SEAWALL WITH A RETURN WALL, A SHORE PERPENDICULAR GROIN, AND A TEMPORARY COFFERDAM SURROUNDING THE PROPOSED BOAT RAMP.

   a. SHEET PILES WILL EITHER BE VINYL OR STEEL, DEPENDING ON CONTRACTOR PREFERENCE, AND WILL COMPRISE ONLY NON-LEACHING MATERIALS.

   b. IN LOCATIONS WHERE PROPOSED SHEET PILES ARE INTENDED TO BE USED AS A SEAWALL OR GROIN, A CONCRETE CAP WILL BE INCORPORATED.

   c. THE NEW SEAWALL WILL BE INSTALLED A MAXIMUM OF 24 IN FROM THE EXISTING SEAWALL (ON-CENTER) WITH AN ELEVATION OF +5 FT (NAVD88) ROUGHLY 4 FT TO 5 FT ABOVE THE WATER'S SURFACE DURING NORMAL CONDITIONS. RIPRAP WILL BE INCORPORATED ALONG THE SEAWARD SIDE FOR USE AS TOE-PROTECTION.

   d. THE GROIN WILL EXTEND FROM THE EDGE OF THE BOAT RAMP PARKING LOT OUT TO THE SEAWARD-MOST LIMITS OF DREDGING. THE GROIN WILL HAVE AN ELEVATION OF +3.5 FT (NAVD88), ROUGHLY 3 FT TO 3.5 FT ABOVE THE WATER'S SURFACE DURING NORMAL CONDITIONS. IT WILL FORM THE SUPPORT FOR MUCH OF THE NORTHERN SIDE OF THE LARGE FIXED TIMBER PIER ON THE NORTH EDGE OF THE BOAT RAMP FACILITY. RIPRAP WILL BE INCORPORATED ALONG EITHER SIDE OF THE GROIN FOR USE AS TOE-PROTECTION.

   e. THE TEMPORARY COFFERDAM WILL HAVE AN ELEVATION OF +4 FT (NAVD 88) OR GREATER WITH AN EMBEDMENT DEPTH OF AT LEAST 16 FT.

   f. THE SEAWALL WILL LOCATE A MAXIMUM OF 2 FT FROM THE MEAN HIGH-WATER LINE.

   g. THE GROIN WILL LOCATE A MAXIMUM OF 75 FT FROM THE MEAN HIGH-WATER LINE.

   h. THE TEMPORARY COFFERDAM WILL LOCATE A MAXIMUM OF 77 FT FROM THE MEAN HIGH-WATER LINE.

   i. ONCE CONSTRUCTION ASSOCIATED WITH THE BOAT RAMP HAS BEEN COMPLETED, THE TEMPORARY COFFERDAM WILL BE REMOVED.

4. THE EXACT LOCATION OF SHEET PILE WALLS ARE SUBJECT TO ALTERATION DURING CONSTRUCTION AND WILL BE BASED ON FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. INSTALLATION ON OR OVER SEAGRASS OR SALT MARSH WILL BE AVOIDED AT ALL TIMES.

5. STRUCTURE ELEVATIONS AND CONSTRUCTION MATERIALS ARE SUBJECT TO CHANGE IN THE FINAL DESIGN. SHEET PILE EMBEDMENT AND DIMENSIONS WILL BE DETERMINED DURING FINAL DESIGN.

6. A MINIMUM 3-FT BUFFER WILL BE MAINTAINED BETWEEN ANY NEW SHEET PILES AND ANY SEAGRASS IDENTIFIED AT THE TIME OF CONSTRUCTION.

7. DURING COFFERDAM INSTALLATION AND SUBSEQUENT DEWATERING ACTIVITIES, OBSERVERS WILL ENSURE LISTED SPECIES DO NOT BECOME TRAPPED. SHOULD ANY SPECIES BE IDENTIFIED WITHIN THE AREA TO BE DEWATERED, CONSTRUCTION ACTIVITIES WILL CEASE UNTIL THE LISTED SPECIES HAS BEEN ALLOWED TO LEAVE ON ITS OWN ACCORD. INSTALLATION OF TURBIDITY CURTAINS PRIOR TO DEWATERING ACTIVITES MAY BE BENEFICIAL TO ENSURE NO LISTED SPECIES ENTER THE AREA WHILE DEWATERING IN PROGRESS.

GENERAL BOAT RAMP NOTES

1. INSTALLATION OF THE REPLACEMENT BOAT RAMP WILL GENERALLY BE LAND-BASED AND WILL PROCEED FOLLOWING INSTALLATION OF THE TEMPORARY COFFERDAM.

2. THE FOUR-LANE BOAT RAMP SHALL CONSIST OF TWO 10-IN THICK CONCRETE SLABS OVERTOP AN 24-IN THICK LAYER OF PEA GRAVEL, WITH RIP RAP TO BE PLACED BETWEEN AND ALONG EACH SIDE OF THE CONCRETE SLABS TO PROTECT THE RAMP FROM BOAT AND/OR WAVE INDUCED EROSION.

   a. FOLLOWING DEMOLITION OF THE EXISTING BOAT RAMP AND INSTALLATION OF THE TEMPORARY COFFERDAM, UNSUITABALE MATERIALS WILL BE EXCAVATED AND REPLACED WITH CLEAN SAND FILL AS NEEDED TO SUPPORT THE NEW BOAT RAMP.

   b. GEOTEXTILE FABRIC WILL THEN BE PLACED BOTH BELOW AND ON TOP OF THE LAYER OF PEA GRAVEL.

   c. ONCE THE PEA GRAVEL AND GEOTEXTILE FABRIC UNDERLAYMENT HAS BEEN INSTALLED, CONCRETE WILL BE POURED AND FORMED IN PLACE. AFTER THE CONCRETE HAS SUFFICIENTLY FORMED, THE TEMPORARY COFFERDAM WILL BE REMOVED.

   d. THE TOP OF THE BOAT RAMP SHALL COMPRISE A 5 FT APRON AT AN ELEVATION OF +5 FT (NAVD 88), ROUGHLY 4 FT TO 5 FT ABOVE THE WATER'S SURFACE DURING NORMAL CONDITIONS, AND WILL GRADE DOWN TO -5 FT (NAVD 88), ROUGHLY 5 FT TO 6 FT BELOW THE WATER'S SURFACE DURING NORMAL CONDITIONS.

   e. THE CONCRETE WILL COMPRISE NON-LEACHING MARINE GRADE CONCRETE SUITABLE FOR BOAT RAMP CONSTRUCTION.

   f. FOLLOWING INSTALLATION OF THE BOAT RAMP, TOE PROTECTION WILL BE INSTALLED BETWEEN THE TWO RAMPS, AND 5 FT FROM THE EDGES OF THE IN-WATER PORTION OF THE RAMP WHERE THERE IS NOT ALREADY RIPRAP PROPOSED (I.E. THE GROIN OR SHORE PROTECTION).

GENERAL DEMOLITION NOTES

1. TURBIDITY AND EROSION CONTROLS WILL BE PLACED AROUND THE WORK AREA AS REQUIRED BY PERMITS.

2. DEMOLITION OF EXISTING IN-WATER FEATURES SHALL BE WATER-BASED TO THE GREATEST EXTENT PRACTICAL. IF NEARSHORE WATER DEPTHS PRECLUDE WORK VESSEL ACCESS, CONTRACTOR MAY USE LOW-PRESSURE TRACK EQUIPMENT TO ACCESS SHALLOW DEPTHS.

3. DEMOLITION OF EXISTING PIERS WILL PROCEED SEQUENTIALLY, OR FROM THE SEAWARD-MOST POINT TO THE LANDWARD-MOST POINT, STARTING WITH REMOVAL OF HANDRAILS AND DECKING THEN PROCEEDING TO REMOVAL OF ANY PILINGS THAT WILL NOT BE REUSED.

4. THE PIERS WILL BE DECONSTRUCTED BY REMOVING HANDRAILS, DECK BOARDS, JOISTS AND PILE CAPS. ALL EXISTING PILES, OTHER THAN PILINGS ASSOCIATED WITH THE FISHING PIER REPAIR, WILL BE EXTRACTED OR CUT OFF AT THE MUDLINE. PILINGS ASSOCIATED WITH THE FISHING PIER REPAIR WILL REMAIN TO LIMIT IMPACTS TO EXISTING SUBMERGED AQUATIC VEGETATION.

5. DEMOLITION ASSOCIATED WITH THE MATTIE KELLY PARK BOARDWALK WILL BE LAND-BASED AND, TO THE GREATEST EXTENT PRACTICAL, ALL WORK WILL BE CONDUCTED FROM THE EXISTING STRUCTURE TO AVOID UNPERMITTED IMPACTS TO ADJACENT WETLANDS.

6. DEMOLITION ASSOCIATED WITH THE MATTIE KELLY PARK BOARDWALK WILL PROCEED SEQUENTIALLY, STARTING AT THE POINT WITHIN THE WETLANDS FURTHEST FROM THE PARKING LOTS AND THEN PROCEEDING NORTH/SOUTH TO THE NEAREST PARKING LOT.

7. DEMOLITION OF THE BOARDWALK WILL BE LIMITED TO DECKING, HANDRAILS, SIGNAGE, ETC. EXISTING PILES TO REMAIN AND BE REUSED TO AVOID UNPERMITTED IMPACTS TO WETLAND VEGETATION.

8. DEMOLITION OF THE EXISTING BOARDWALK MAY NOT PROCEED UNTIL PILE INSTALLATION ASSOCIATED WITH THE BUMPOUTS HAS BEEN COMPLETED.

9. DEMOLITION OF THE EXISTING SEAWALL WILL BE LIMITED TO THAT WHICH IS NECESSARY TO ACCOMMODATE INSTALLATION OF THE NEW SEAWALL. OTHERWISE IT WILL REMAIN IN PLACE

10. AFTER INSTALLATION OF THE TEMPORARY COFFERDAM, DEMOLITION OF THE EXISTING BOAT RAMP WILL BE LAND-BASED, WITH REMOVAL TO START AT THE SEAWARD MOST POINT OF THE RAMP AND PROCEED BACK TOWARDS LAND.

11. EXISTING RIPRAP TO BE REMOVED FROM THE AREAS DENOTED IN THESE DRAWINGS AS EMBAYMENTS OR AS PART OF ANY REGRADING ACTIVITIES WILL BE REUSED TO THE GREATEST EXTENT PRACTICABLE, PROVIDED THEY CONSIST OF CLEAN, NON-LEACHING MATERIALS.

12. ALL DEBRIS RESULTING FROM THE DEMOLITION THAT IS NOT TO BE REUSED WILL BE HAULED OFF-SITE AND DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL AND STATE REGULATIONS.

GENERAL SIGN AND BUOY NOTES

1. EDUCATIONAL SIGNS WILL BE INCORPORATED AS APPROPRIATE AND WILL INCLUDE ALL SIGNS AS REQUIRED BY THE FLORIDA FISH AND WILDLIFE COMMISSION AND THE NATIONAL MARINE FISHERIES SERVICE.

2. SIGNS MAY BE POSTED ON PILINGS OR OTHERWISE AFFIXED TO PIERS AND BOARDWALKS, ON BUOYS, OR ATTACHED TO POSTS WITHIN THE UPLANDS.

3. SIGNS WILL BE PLACED IN PROMINENT LOCATIONS FOR MAXIMUM VISIBILITY. EACH SIGN MAY BE REPLICATED MULTIPLE TIMES AND PLACED IN MULTIPLE LOCATIONS DUE TO THE LARGE SIZE OF THE PROJECT AREA.

4. SIGNAGE RELATED TO LISTED SPECIES WILL NOT FACE THE WATER, NOR WILL THEY BE ATTACHED TO PILINGS OR NAVIGATIONAL MARKERS IN THE WATER. ONE EXCEPTION TO SIGNS RELATED TO LISTED SPECIES FACING THE WATER ARE FOR TEMPORARY AWARENESS SIGNS DURING IN-WATER WORK, SUCH AS THE "CAUTION BOATERS" OR "IDLE SPEED WHILE IN WORK AREA" SIGNS.

5. PERMANENT BUOYS WILL BE COMPRISED OF A SALTWATER GRADE SPAR BUOY ANCHORED TO THE SEAFLOOR VIA A SALTWATER RESITANT BUNGEE AND MARINE GRADE CHAINS THAT ARE ATTACHED TO A 500 POUND CONCRETE ANCHOR.

6. TEMPORARY BUOYS WILL BE YELLOW AND WILL BE COMPRISED OF INFLATABLE VINYL BUOYS OR SPHERICAL FOAM BUOYS ANCHORED TO THE SEAFLOOR VIA A TAUT POLY/NYLON ROPE AND/OR MARINE GRADE CHAINS THAT ARE ATTACHED TO AN EASILY REMOVABLE SMALL CONCRETE OR STEEL ANCHOR.

7. INFORMATION PRINTED ONTO THE PERMANENT BUOYS WILL BE REPLICATED ON BOTH SIDES FOR MAXIMUM VISIBILITY.

8. ALL BUOYS WILL DEPLOYED IN AREAS OF UNVEGETATED SAND BOTTOM.

9. THE PERMANENT BUOYS WILL DELINEATE THE SWIMMING BEACH AND PADDLECRAFT LAUNCH AREA AS WELL AS THE NO ANCHORING ZONE ASSOCIATED WITH THE SEAGRASS RECRUITMENT AND PROTECTION AREAS. THE INTENT OF THE PERMANENT BUOYS ARE TO RESTRICT ACCESS TO MOTORIZED VESSELS.

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FIGURE 3
GENERAL NOTES
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY #4815

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

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10. TEMPORARY MARKER BUOYS WILL DELINEATE THE PROPOSED REEF AREAS AND WILL BE REMOVED FOLLOWING DEPLOYMENT OF REEF MATERIALS.

11. BUOYS WILL BE DEPLOYED ANCHOR-FIRST OFF THE BACK OF A BOAT OR OFF THE SIDE OF A BARGE TO ENSURE THEY ARE NOT PLACED OVER EXISTING SEAGRASS. QUALITY CONTROL DIVES SHALL BE PERFORMED AS NECESSARY TO ENSURE PROPER PLACEMENT OF THE BUOY'S ANCHOR.

12. ANY BUOYS TO BE REMOVED SHALL BE REMOVED IN SUCH A WAY THAT ENSURES THE ANCHORS DO NO IMPACTS ADJACENT SEAGRASS BEDS.

13. BUOY LINES WILL INCORPORATE ONLY THAT LENGTH NECESSARY FOR THE BUOY TO EXTEND ABOVE THE SURFACE OF THE WATER DURING NORMAL CONDITIONS TO REDUCE THE POTENTIAL FOR ENTANGLEMENT ISSUES AND TO PREVENT POTENTIAL SEAGRASS IMPACTS FROM THE CHAIN DRAGGING ALONG THE SEAFLOOR.

14. ALL SIGNS AND/OR BUOYS WILL BE REPLACED WHEN FADED, DAMAGED OR OUTDATED.

GENERAL UPLAND FEATURE AND DREDGED MATERIAL MANAGEMENT NOTES

1. UPLAND IMPROVEMENTS ARE DETAILED ON A SEPARATE SET OF DRAWINGS; GENERAL IMPROVEMENTS HAVE BEEN OUTLINED ON THESE DRAWINGS FOR REVIEWER UNDERSTANDING.

2. UPLAND IMPROVEMENTS THAT ARE IN THIS DRAWING SET INCLUDE MECHANICAL TRANSFER OF DREDGED MATERIALS TO A TEMPORARY DREDGED MATERIAL MANAGEMENT AREA (DMMA) IN THE UPLANDS AND FILLING IN AN UPLAND-CUT STORMWATER POND TO THE EXISTING GRADE. THE POND WILL BE FILLED WITH DREDGED MATERIALS AND CAPPED WITH CLEAN SAND FILL.

3. UPLAND IMPROVEMENTS PROPOSED FOR THE SITE THAT ARE DETAILED ON A SEPARATE SET OF DRAWINGS INCLUDE A SERIES OF ADA-ACCESIBLE BOARDWALKS AND SIDEWALKS CONNECTING THE VARIOUS ASPECTS OF THE PROJECT AREA, PARKING LOT ENHANCEMENTS, STORMWATER ENHANCEMENTS, GRADING AND PLACEMENT OF SAND FILL ASSOCIATED WITH THE BEACH AREA, 5 PAVILIONS, AND A RESTROOM/EDUCATIONAL BUILDING.

4. CONSTRUCTION OF THE UPLAND FEATURES SHALL BE ENTIRELY LAND-BASED.

5. MECHANICALLY DREDGED MATERIAL SHALL BE PLACED WITHIN THE UPLANDS AND REGRADED ON-SITE.

6. THE TEMPORARY DMMA WILL INCLUDE STAKED HAY BALES, TURBIDITY CURTAINS, AND/OR OTHER BMPS AT ANY CONTROLLED OVERFLOW/DISCHARGE AREAS.

7. DREDGED MATERIAL WILL BE TRANSFERRED INTO THE DMMA VIA EXCAVATOR OR OTHER LAND-BASED METHOD. NO PERMANENT IMPACT TO WETLANDS OR SUBMERGED AQUATIC VEGETATION WILL RESULT FROM THIS TRANSFER OF MATERIALS.

8. PLANTING OF NATIVE UPLAND AND WETLAND PLANTS WILL BE INCORPORATED ACROSS THE PROJECT SITE FOLLOWING REMOVAL OF THE INVASIVE SPECIES FOUND ON SITE, PARTICULARLY AROUND THE LARGE STORMWATER POND.

9. THE EXACT LOCATION OF THE UPLAND FEATURES ARE SUBJECT TO ALTERATION DURING CONSTRUCTION AND WILL BE BASED ON FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. ALL WORK ASSOCIATED WITH THE UPLAND FEATURES WILL BE SITED IN THE UPLANDS.

GENERAL DREDGING NOTES

1. DREDGING WILL BE CONDUCTED AS NEEDED TO FACILITATE MOORING AND CONSTRUCTION IN THE VICINITY OF THE MOORING PIER AND BOAT RAMP FACILITY. DREDGE MATERIAL CONSISTS OF SAND WITH LESS THAN 10% FINES PASSING #200 SIEVE.

2. DREDGING WILL BE COMPLETED USING VARIOUS METHODS.

   a. WITHIN THE DEWATERING AREA ASSOCIATED WITH THE TEMPORARY COFFERDAM, MATERIALS WILL BE EXCAVATED VIA LAND-BASED EQUIPMENT AFTER THEY HAVE BEEN ALLOWED TO DEWATER.

   b. OUTSIDE THE DEWATERING AREA ASSOCIATED WITH THE TEMPORARY COFFERDAM, DREDGING SHALL BE WATER-BASED TO THE GREATEST EXTENT PRACTICAL. IF NEARSHORE WATER DEPTHS PRECLUDE WORK VESSEL ACCESS, CONTRACTOR MAY USE LOW-PRESSURE TRACK EQUIPMENT TO ACCESS SHALLOW DEPTHS. DREDGING WILL BE CONDUCTED VIA MECHANICAL MEANS.

   c. EXACT METHODOLOGIES WILL BE CONTRACTOR DEPENDENT, BUT MATERIAL WILL LIKELY BE PLACED ONTO A BARGE AND THEN TRANSFERRED TO THE UPLANDS.

   d. THE CONTRACTOR SHALL INSTALL HAY BALES, DOUBLE LINED SILT FENCES, OR OTHER TURBIDITY BARRIERS AROUND THE TEMPORARY DMMA AS REQUIRED TO MAINTAIN WATER QUALITY STANDARDS. MECHANICAL DREDGING WILL MINIMIZE POTENTIAL FOR RETURN WATER INTO THE BAYOU. SHOULD RETURN WATER BE INTRODUCED, THE CONTRACTOR WILL BE REQUIRED TO OBTAIN AN NPDES PERMIT.

   e. FOR ANY IN-WATER WORK, ALL DREDGING-RELATED VESSELS (E.G., BARGES, TUGS, ETC.) SHALL MAINTAIN AT LEAST 1 FT OF CLEAR DISTANCE BETWEEN THE LOWEST DRAFT OF THE VESSEL AND THE BOTTOM. NO SPUDDING IS ALLOWED OVER SEAGRASS.

3. WITHIN JOE'S BAYOU, DREDGING WILL BE CONDUCTED TO A MAXIMUM DEPTH OF -6 FT (NAVD88) AND WILL TIE INTO THE EXISTING GRADE ALONG THE SEAWARD EXTENT OF DREDGING. UP TO 1 FT OF ALLOWABLE OVERDREDGE WILL BE PERMITTED. DREDGING TO A DEPTH OF -6 FT WILL ALLOW FOR SAFE NAVIGATION BETWEEN THE PROPOSED BOAT RAMP FACILITY AND NEARBY GULF INTRACOASTAL WATERWAY (ICWW).

4. DREDGE ACTIVITES WILL USE ALL APPLICABLE BMPS. THE DMMA SITE CHARACTERISTICS INDICATE EXTREMELY ACCEPTABLE HIGH PERCOLATION (DEWATERING) RATES DUE TO SITE ELEVATIONS AND SITE SOILS (SAND). MATERIAL WILL BE SPREAD ONSITE.

5. FOLLOWING COMPLETION OF DREDGING, THE DREDGED MATERIALS WILL BE USED TO FILL THE HOLDING POND OR ELSE WILL BE REGRADED ONSITE.

GENERAL PRESERVATION, RESTORATION, ENHACEMENT, AND CREATION NOTES

1. THE PROJECT INCORPORATES PRESERVATION, RESTORATION, ENHANCEMENT, AND CREATION OF NATURAL HABITATS FOUND ON-SITE.

2. PRESERVATION: BECAUSE OF THE ESTABLISHMENT OF THE NO ANCHORING ZONE, A LARGE SEAGRASS PRESERVATION AREA HAS BEEN INCORPORATED INTO THIS PROJECT. RESTRICTION OF MOTORIZED VESSELS WILL REDUCE THE LIKELIHOOD OF ANY ADDITIONAL PROP SCARS OR ANCHORS SCARS TO THE EXISTING SEAGRASS BEDS.

   a. TWO EXISTING MOORING BUOYS SHALL BE REMOVED FROM THE NO ANCHORING ZONE. BUOYS SHALL BE REMOVED IN SUCH A WAY THAT ENSURES THE ANCHORS DO NO IMPACTS ADJACENT SEAGRASS BEDS.

   b. EDUCATIONAL SIGNS WILL ALSO BE INCORPORATED THAT REQUEST THE RECREATING PUBLIC TO AVOID AREAS OF SEAGRASS.

3. RESTORATION: SEAGRASS PROP/ANCHOR SCAR RESTORATION OF EXISTING SEAGRASS BEDS FOUND WITHIN THE SEAGRASS PRESERVATION AREA WILL PROVIDE ESSENTIAL HABITAT FOR LISTED SPECIES AND COMMERCIALLY RELEVANT SPECIES. SHORELINE AND UNCONSOLIDATED SAND BOTTOM RESTORATION WILL ALSO BE INCORPORATED.

   a. RESTORATION OF UNCONSOLIDATED SAND BOTTOM WILL OCCUR WHERE EXISTING RIPRAP IS TO BE REMOVED. THIS INCLUDES AREAS DENOTED WITHIN THESE DRAWINGS AS NATURAL EMBAYMENTS AS WELL AS THOSE AREAS WHERE EXISTING RIPRAP IS TO BE REMOVED/REGRADED TO THE PROPOSED SPECIFICATIONS.

   b. NATIVE SALT-TOLERANT SPECIES MAY BE PLANTED AS PART OF SHORELINE RESTORATION ACTIVITIES. SPECIES TO BE PLANTED MAY INCLUDE ONE OR MORE OF THE FOLLOWING: SMOOTH CORDGRASS (*SPARTINA ALTERNIFLORA*), NEEDLERUSH (*JUNCUS ROEMERIANUS*), SALTMEADOW CORDGRASS (*SPARTINA PATENS*), GIANT CORDGRASS (*SPOROBOLUS CYNOSUROIDES*), SALT GRASS (*DISTICHLIS SPICATA*), SALTWORT (*BATIS MARITIMA*), AND BLUE FLAG (*IRIS VIRGINICA*). ALL PLANTS WILL BE SOURCED FROM A CERTIFIED NURSERY.

   c. RESTORATION ACTIVITIES MAY ALSO INCLUDE FILLING PROP/ANCHOR SCARS TO THE ADJACENT ELEVATION WITH CLEAN SAND FILL TO RESTORE THESE AREAS TO THE PROPER ELEVATION AND ALLOW FOR SAV TO RECRUIT INTO THE PREVIOUSLY DISTURBED LOCATIONS.

4. ENHANCEMENT: ESTABLISHMENT OF A SEAGRASS RECRUITMENT AREA WITHIN JOES' BAYOU. INVASIVE/EXOTIC/NUISANCE SPECIES MANAGEMENT ACROSS THE PROJECT SITE, AND LITTORAL ZONE ENHANCEMENT WITHIN THE LARGE STORMWATER POND WILL IMPROVE THE VARIOUS WETLAND AND SURFACE WATER HABITATS WITHIN WHICH THESE ACTIVITIES ARE LOCATED.

   a. THE CONSTRUCTION OF THE BREAKWATERS AND GROIN ENHANCES THE SUITABLE SAV HABIT IN THE LEE OF THESE FEATURES BY REDUCING WAVE ENERGY. THE AREA BEHIND THESE STRUCTURES WILL SERVE AS A SEAGRASS RECRUITMENT AREA WHERE EXISTING SAV BEDS CAN EXPAND/THICKEN AND ESTABLISH ADDITIONAL SAV BEDS.

   b. INVASIVE/EXOTIC/NUISANCE SPECIES MANAGEMENT, AS DETAILED BELOW, WILL ENHANCE THE SURROUNDING NATURAL HABITATS.

   c. FOLLOWING REMOVAL OF EXOTIC SPECIES, THE 0 TO 3 FT CONTOURS OF THE STORMWATER POND LITTORAL ZONE WILL BE PLANTED WITH SUITABLE NATIVE WETLAND PLANT SPECIES 3 FT ON CENTER. PLANT SPECIES CONTOUR ZONE PLACEMENT WILL BE DEPENDENT ON SPECIES DEPTH TOLERANCE AND APPROPRIATE UDSA PLANT HARDINESS ZONE RANGE AS DESIGNATED IN THE RESTORATION PLAN.

      i. ALONG THE WATERS EDGE, PLANTS WILL INCLUDE ARROWHEAD (*SAGGITTARIA LATIFOLIA*), BLUE FLAG IRIS (*IRIS VIRGINICA*), DUCK POTATO (*SAGITARRIA LANCIFOLIA*), FRAGRANT WATER LILY (*NYMPHAEA ODORATA*), GOLDEN CANNA (*CANNA FLACCIDA*), PICKERELWEED (*PONTEDERIA CORDATA*), SAND CORD GRASS (*SPARTINA BAKERII*), SPIKERUSH (*ELEOCHARIS CELLULOSA & ELEOCHARIS INTERSTINCTA*) AND SWAMP LILY (*CRINUM AMERICANUM*).

      ii. ALONG THE BANK SLOPE ZONE, PLANTS WILL INCLUDE AFRICAN IRIS (*DIETES IRIDIOIDES*), BLUE MISTFLOWER (*CONOCLINIUM COELESTINUM*), BLUE PORTERWEED (*STACHYTARPHETA JAMAICENSIS*), FAKAHATCHEE GRASS (*TRIPSACUM DACTYLOIDES*), FLORIDA GAMAGRASS (TRIPSACUM FLORIDANUM), MUHLY GRASS (*MUHLENBERGIA CAPILLARIS*), PASSION VINE (*PASSIFLORA INCARNATA*), AND SCORPION TAIL (*HELIOTROPIUM ANGIOSPERMUM*).

   d. A FOUNTAIN OR SUB-SURFACE BUBBLER WILL ALSO BE ADDED TO THE POND TO ENHANCE DISSOLVED OXYGEN LEVELS AND PREVENT STRATIFICATION, REDUCING THE CHANCES OF THE SYSTEM BECOMING HYPOXIC.

5. CREATION: WITHIN THE NON-ANCHORING ZONE, BENTHIC DEPRESSIONS GREATER THAN 7 FT DEEP HAVE BEEN DESIGNATED FOR THE CREATION OF REEF HABITAT. THE CREATION OF REEF HABITAT INCREASES THE AREA OF ESSENTIAL FISH HABITAT (EFH) WITHIN JOE'S BAYOU. PLACEMENT OF THE REEF HABITAT AT THIS DEPTH REDUCES POSSIBLE VESSEL COLLISIONS.

   a. REEF MATERIALS TO CONSIST OF REPURPOSED OR PRE-FABRICATED CLEAN CONCRETE OR ROCK, CLEAN STEEL, BOAT HULLS, OR OTHER CLEAN, HEAVY GAUGE STEEL PRODUCTS HAVING A THICKNESS OF 1/4" OR GREATER, A MIXTURE OF CLEAN CONCRETE AND HEAVY GAUGE STEEL, OR OTHER MATERIALS AS DEFINED UNDER F.A.C. 62-300.600. THE MATERIAL SHALL BE OF SUFFICIENT SIZE AND WEIGHT TO REMAIN STABLE.

   b. MAX REEF HEIGHT WILL BE LESS THAN HALF THE DISTANCE FROM THE BOTTOM TO THE WATER SURFACE. A 5 FT MINIMUM AUTHORIZED DEPTH SHALL BE MAINTAINED AT ALL TIMES.

   c. A GEOTEXTILE AND GEOGRID FOUNDATION WILL BE PLACED WITHIN THE AREAS DESIGNATED IN THESE DRAWINGS AS REEF HABITAT. RIPRAP AND/OR PRE-FABRICATED MODULES WILL THEN BE DEPLOYED WITHIN THESE AREAS TO FORM THE PROPOSED PATCH REEF SITES.

   c. TEMPORARY MARKER BUOYS WILL BE SECURED ALONG THE PERIMETER OF THE PATCH REEF SITES PRIOR TO MATERIAL PLACEMENT TO DEFINE THE DROP AREA AND TO ENSURE ACCURATE PLACEMENT WITHIN THE APPROVED SITE. BUOYS SHALL BE REMOVED FOLLOWING REEF DEPLOYMENT.

   d. QUALITY CONTROL DIVES SHALL BE PERFORMED AS NECESSARY TO ENSURE PROPER MATERIAL PLACEMENT AND RELIEF.

INVASIVE / EXOTIC / NUISANCE SPECIES MANAGMENT

1. THREE (3) CATEGORY I INVASIVE/EXOTIC SPECIES WERE IDENTIFIED WITHIN THE PROJECT AREA DURING THE 2021 NATURAL RESOURCE SURVEY INCLUDING CHINESE TALLOW (*TRIADICA SEBIFERA*), AIR POTATO (*DIOSCOREA BULBIFERA*), AND TORPEDO GRASS (*PANICUM REPENS*). MANAGEMENT IS PROPOSED FOR EACH OF THESE SPECIES.

2. FIVE (5) NON-INVASIVE EXOTIC SPECIES WERE ALSO IDENTIFIED WITHIN THE PROJECT AREA INCLUDING CALLERY PEAR (*PYRUS CALLERYANA*), GIANT REED (*ARUNDO DONAX*), BERMUDA GRASS (*CYNODON DACTYLON*), STICKY NIGHTSHADE (*SOLANUM SISYMBRIIFOLIUM*), AND PRICKLY FANPETAL (*SIDA SPINOSA*). OF THESE MANAGEMENT ACTIVITIES ARE PROPOSED FOR GIANT REED, STICKY NIGHTSHADE, AND PRICKLY FANPETAL. REMOVAL OF CALLERY PEAR AND BERMUDA GRASS IS NOT PROPOSED.

3. ONE (1) NUISANCE SPECIES, CATTAIL (*TYPHA* SP.) WAS IDENTIFIED WITHIN THE PROJECT AREA. MANAGEMENT FOR THIS SPECIES IS PROPOSED.

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FIGURE 4
GENERAL NOTES
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY #4815

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

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4. FOR CHINESE TALLOW FOUND ALONG THE WETLAND BOUNDARY, MANAGEMENT ACTIVITIES WILL INCLUDE MECHANICAL REMOVAL USING CHAIN SAWS OR HAND-PULLING SEEDLINGS AND SAPLINGS FOLLOWED BY APPLICATION OF A CHEMICAL HERBICIDE SUCH AS TRICLOPYRAMINE, TRICLOPYR ESTER, OR AMINOPYRALID TO THE TOP OF THE CUT STUMP. FOR THE DENSE AREA OF CHINESE TALLOW LOCATED IN THE SOUTHWEST CORNER OF THE RESTORATION AREA, MANAGEMENT WILL INCLUDE CUTTING THE TRUNK OF THE CHINESE TALLOW WITH A MATCHET (OR OTHER SHARP BLADE) FOLLOWED BY THE APPLICATION OF AN IMAZAPYR OR IMAZAMOX CONTAINING COMMERCIAL HERBICIDE SUCH AS ARSENAL, HABITAT, OR CLEARCAST.

5. FOR AIR POTATO, MANAGEMENT INCLUDES MECHANICAL REMOVAL OF THE VINES AND BULBILS.

6. FOR TORPEDO GRASS, MANAGEMENT ACTIVITIES WILL INCLUDE REPEATED CHEMICAL TREATMENTS USING POST-EMERGENCE HERBICIDES SUCH AS GLYPHOSATE AND IMAZAPYR IN THE SPRING, SUMMER, AND FALL UNTIL THE SPECIES IS ERADICATED FROM THE LANDSCAPE.

7. FOR GIANT REED, MECHANICAL TREATMENT OF THIS EXOTIC SPECIES REQUIRES FREQUENT AND REPEATED CUTTING OF THE STALKS TO GROUND LEVEL. CHEMICAL TREATMENT REQUIRES THE APPLICATION OF GLYPHOSATE, ARSENAL, OR A COMBINATION OF THE TWO DURING THE MONTHS OF SEPTEMBER OR OCTOBER. PROPER APPLICATION SHOULD WET ALL THE EXPOSED LEAVES OF THE PLANT. REPEATED MECHANICAL CUTTING AND CHEMICAL TREATMENT CYCLES MAY BE REQUIRED TO ACHIEVE THE DESIRED OUTCOME.

8. STICKY NIGHTSHADE AND PRICKLY FANPETALS ARE LOCATED IN PORTIONS OF THE UPLANDS THAT ARE SLATED FOR CLEARING AND REPURPOSING AND WILL BE ERADICATED DURING THIS PROCESS.

9. FOR CATTAILS, MANAGEMENT ACTIVITIES WILL INCLUDE REPEATED CHEMICAL FOLIAR TREATMENT WITH GLYPHOSATE IN THE SPRING, SUMMER, AND FALL UNTIL THE SPECIES IS ERADICATED FROM THE LANDSCAPE.

10. THE PROPER APPLICATION RATE AND SAFETY PRECAUTIONS FOR HERBICIDES, AS RECOMMENDED BY THE MANUFACTURER, NEED TO BE STRICTLY FOLLOWED TO PREVENT ENVIRONMENTAL DAMAGE AND TO ENSURE THE PROPER EFFICACY OF THE TREATMENT. THE TREATMENT MUST BE CONDUCTED BY A FLORIDA-CERTIFIED PESTICIDE APPLICATOR. FOLLOW-UP TREATMENTS SHOULD BE CONDUCTED THROUGHOUT PROJECT CONSTRUCTION AS NEEDED.

11. DURING CONSTRUCTION ACTIVITIES, EQUIPMENT AND VEHICLES WILL BE WASHED AND CLEANED TO ELIMINATE OR REDUCE INTRODUCTION OF NEW WEED SPECIES VIA ANTHROPOGENIC VECTORS ASSOCIATED WITH THIS PROJECT.

SOVEREIGN SUBMERGED LANDS:

1. THE BUOYS SHALL BE AUTHORIZED UNDER CONSENT BY RULE PER SECTION 403.813(1)(K), F.S. WHICH ALLOWS FOR THE INSTALLATION OF AIDS TO NAVIGATION AND BUOYS ASSOCIATED WITH SUCH AIDS, PROVIDED THE DEVICES ARE MARKED PURSUANT TO S. 327.40.

2. THE DOCKS, BOAT RAMPS, AND DREDGING SHALL BE AUTHORIZED UNDER A LETTER OF CONSENT FOR PUBLIC DOCKS OR PIERS THAT ARE EXEMPT FROM PERMIT REQUIREMENTS UNDER SECTION 403.813(1), F.S.; PUBLIC BOAT RAMPS; PUBLIC CHANNELS; OR PUBLIC SWIMMING AREAS, AS ALL SUCH STRUCTURES OR ACTIVITIES ARE OWNED AND OPERATED BY GOVERNMENTAL ENTITIES AND ANY REVENUES COLLECTED WILL BE USED SOLELY FOR OPERATION AND MAINTENANCE OF THE JOE'S BAYOU RECREATION AREA .

3. THE BREAKWATERS, REVETMENTS, AND SHORELINE RESTORATION ACTIVITIES SHALL BE AUTHORIZED UNDER A LETTER OF CONSENT FOR HABITAT RESTORATION.

4. THE REEF HABITAT CREATION AREAS SHALL BE AUTHORIZED UNDER A LETTER OF CONSENT FOR ARTIFICIAL REEFS OR FISH ATTRACTORS THAT ARE CONSTRUCTED FOR PUBLIC USE.

5. SHOULD IT BE REQUIRED, A SOVEREIGN SUBMERGED LANDS SKETCH SHALL BE SUBMITTED FOLLOWING FDEP VERIFICATION OF THE AREA TO BE AUTHORIZED VIA EASEMENT.

LITTORAL ZONE PLANTING PLAN		
WATERS EDGE ZONE		
COMMON NAME	**SCIENTIFIC NAME**	**WATER DEPTH**
ARROWHEAD	*SAGITTARIA LATIFOLIA*	6"–12"
BLUE FLAG IRIS	*IRIS VIRGINICA*	MOIST TO WET; WATER EDGE
DUCK POTATO	*SAGITTARIA LANCIFOLIA*	6"–12"
FRAGRANT WATER LILY	*NYMPHAEA ODORATA*	30"–36"
GOLDEN CANNA	*CANNA FLACCIDA*	12"–18"
PICKERELWEED	*PONTEDERIA CORDATA*	6"–18"
SAND CORD GRASS	*SPARTINA BAKERII*	DRY TO WET; WATER EDGE
SPIKERUSH	*ELEOCHARIS CELLULOSE / ELEOCHARIS INTERSTINCTA*	6"–12"
SWAMP LILY	*CRINUM AMERICANUM*	3"
BANK SLOPE ZONE		
COMMON NAME	**SCIENTIFIC NAME**	**WATER DEPTH**
AFRICAN IRIS	*DIETES IRIDIOIDES*	DRY TO WET
BLUE MISTFLOWER	*CONOCLINIUM COELESTINUM*	MOIST
BLUE PORTERWEED	*STACHYTARPHETA JAMAICENSIS*	DRY TO MOIST
FAKAHATCHEE GRASS	*TRIPSACUM DACTYLOIDES*	DRY TO MOIST
FLORIDA GAMAGRASS	*TRIPSACUM FLORIDANUM*	DRY TO WET
MUHLY GRASS	*MUHLENBERGIA CAPILLARIS*	DRY TO WET
PASSION VINE	*PASSIFLORA INCARNATA*	MOIST
SCORPION TAIL	*HELIOTROPIUM ANGIOSPERMUM*	DRY

TIDAL DATUM

MLLW

TIDAL DATUM REFERENCE:	
MHHW	0.61'
MHW	0.60'
MSL	0.28'
MLW	0.01'
MLLW	0.00'
NAVD88	-0.12'

NAVD 1988

TIDAL DATUM REFERENCE:	
MHHW	0.73'
MHW	0.72'
MSL	0.4'
MLW	0.13'
MLLW	0.12'
NAVD88	0.00'

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FIGURE 5
GENERAL NOTES
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY #4815

PRELIMINARY DRAWINGS; THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

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PROPOSED SEGMENTED BREAKWATER PLAN

1. NUMBER OF INDIVIDUAL STONE BREAKWATERS: 4
2. MAXIMUM BREAKWATER DISTANCE FROM THE MHWL IS 265 FT
3. SLOPE OF BREAKWATERS: VARIES (1.5H:1V TO 2H:1V)
4. TOTAL LENGTH OF BREAKWATERS: 420 FT
5. TOTAL AREA OF BREAKWATERS: 8,760 SF / 0.20 AC
   a. ABOVE MHWL: 0 SF / 0 AC
   b. BELOW MHWL: 8,760 SF / 0.20 AC
6. TOTAL BREAKWATER VOLUME: 1,300 CY
7. ARMOR STONE SIZE (D50 / W50): 1.5 FT / 525 LBS
8. BEDDING AND CHINKING STONE SIZE (D50 / W50): 0.5 FT / 20 LBS

PROPOSED RIPRAP PLAN

1. NUMBER OF INDIVIDUAL SHORE PROTECTION FEATURES: 4
   a. MAXIMUM SHORE PROTECTION FEATURE DISTANCE FROM MHWL: 20 FT
   b. SLOPE OF SHORE PROTECTION FEATURES: VARIES (1.5H:1V TO 2H:1V)
   c. TOTAL LENGTH OF SHORE PROTECTION FEATURES: 742 FT
   d. TOTAL AREA SHORE PROTECTION FEATURES: 10,150 SF / 0.23 AC
      i. ABOVE MHWL: 5,478 SF / 0.12 AC
      ii. BELOW MHWL: 4,672 SF / 0.11 AC
   e. TOTAL VOLUME SHORE PROTECTION FEATURES: 900 CY
2. NUMBER OF INDIVIDUAL TOE PROTECTION FEATURES: 3
   a. MAXIMUM TOE PROTECTION FEATURE DISTANCE FROM MHWL: 70 FT
   b. SLOPE OF TOE PROTECTION FEATURES: VARIES (1.5H:1V TO 2H:1V)
   c. TOTAL LENGTH OF TOE PROTECTION FEATURES: 925 FT
      i. SEAWALL TOE PROTECTION: 361 FT
      ii. GROIN TOE PROTECTION: 318 FT
      iii. BOAT RAMP TOE PROTECTION: 246 FT
   c. TOTAL LENGTH OF TOE PROTECTION FEATURES (BELOW MHWL): 585 FT
      i. SEAWALL TOE PROTECTION: 200 FT
      ii. GROIN TOE PROTECTION: 145 FT
      iii. BOAT RAMP TOE PROTECTION: 240 FT
   d. TOTAL AREA TOE PROTECTION FEATURES: 6,995 SF / 0.16 AC
      i SEAWALL TOE PROTECTION: 2,240 SF / 0.05 AC
      ii. GROIN TOE PROTECTION: 2,740 SF / 0.06 AC
      iii. BOAT RAMP TOE PROTECTION: 2,015 SF / 0.05 AC
   d. TOTAL AREA TOE PROTECTION FEATURES (BELOW MHWL): 3,635 SF / 0.08 AC
      i. SEAWALL TOE PROTECTION: 560 SF / 0.01 AC
      ii. GROIN TOE PROTECTION: 1,435 SF / 0.03 AC
      iii. BOAT RAMP TOE PROTECTION: 1,640 SF / 0.04 AC
   e. TOTAL VOLUME TOE PROTECTION FEATURES (BELOW MHWL): 400 CY
3. ARMOR STONE SIZE (D50 / W50): 1.5 FT / 525 LBS
4. CHINKING STONE SIZE (D50 / W50): 0.5 FT / 20 LBS

PROPOSED PILE-SUPPORTED STRUCTURE PLAN

1. MOORING PIER
   a. TOTAL NUMBER OF FLEXIBLE MOORING SLIPS: 1
   b. MAXIMUM NUMBER OF VESSELS MOORED AT ONE TIME: 5
   c. TOTAL NUMBER OF PILES: 40
      i. PILE TYPE: TIMBER
      ii. PILE SIZE: 12" DIA.
   d. TOTAL LENGTH OF MOORING PIER: 182 FT
      i. ABOVE MHWL: 15 FT
      ii. BELOW MHWL: 167 FT
   e. TOTAL AREA OF MOORING PIER: 1,571 SF / 0.04 AC
      i. ABOVE MHWL: 100 SF / 0.01 AC
      ii. BELOW MHWL: 1,471 SF / 0.03 AC
   f. WIDTH OF MOORING PIER: 7 FT – 8 FT
2. BOATING FACILITY
   a. TOTAL NUMBER OF BOAT RAMPS: 2
   b. TOTAL NUMBER OF BOAT LANES: 4
   c. TOTAL NUMBER OF FLEXIBLE MOORING SLIPS: 6
   d. MAXIMUM NUMBER OF VESSELS MOORED AT ONE TIME: 21
   e. TOTAL NUMBER OF PILES: 85
      i. PILE TYPE: TIMBER
      ii. PILE SIZE: 12" DIA.
   f. TOTAL NUMBER OF FIXED TIMBER PIERS: 3
   g. TOTAL LENGTH OF FIXED TIMBER PIERS: 400 FT
      i. ABOVE MHWL: 112 FT
      ii. BELOW MHWL: 288 FT
   h. TOTAL AREA FIXED TIMBER PIERS: 3,590 SF / 0.08 AC
      i. ABOVE MHWL: 885 SF / 0.02 AC
      ii. BELOW MHWL: 2,705 SF / 0.06 AC
   i. WIDTH OF FIXED TIMBER PIERS: 7 FT – 8 FT
   j. TOTAL NUMBER OF FLOATING DOCKS: 1
   k. TOTAL LENGTH OF FLOATING DOCK: 69 FT
      i. ABOVE MHWL: 0 FT
      ii. BELOW MHWL: 69 FT
   l. TOTAL AREA OF FLOATING DOCK: 685 SF / 0.02 AC
      i. ABOVE MHWL: 0 SF / 0 AC
      ii. BELOW MHWL: 685 SF / 0.02 AC
   m. WIDTH OF FLOATING DOCK: 10 FT
   n. TOTAL NUMBER OF ALUMINUM GANGWAYS: 1
   o. TOTAL LENGTH OF ALUMINUM GANGWAY: 30 FT
   p. WIDTH OF ALUMINUM GANGWAY: 5 FT
3. ADA PADDLECRAFT LAUNCH AREA
   a. ADA PADDLECRAFT LAUNCH AREA STRUCTURES LOCATED ENTIRELY ABOVE THE EXISTING MHWL
   b. TOTAL NUMBER OF TIMBER DOCKS: 1
      i. TOTAL LENGTH OF PADDLECRAFT TIMBER DOCK: 21 FT
      ii. TOTAL AREA OF PADDLECRAFT TIMBER DOCK: 215 SF / 0.01 AC
      iii. TOTAL WIDTH OF PADDLECRAFT TIMBER DOCK: 10 FT
      iv. TOTAL NUMBER OF PILES: 6
         (1) PILE TYPE: TIMBER
         (2) PILE SIZE: 12" DIA.
   c. TOTAL NUMBER OF SEATED LAUNCH ASSISTS: 2
   d. TOTAL NUMBER OF OVERHEAD LAUNCH ASSISTS: 1
      i. TOTAL LENGTH OF OVERHEAD LAUNCH ASSIST: 28 FT
      ii. TOTAL WIDTH OF OVERHEAD LAUNCH ASSIST: 5 FT
      iii. TOTAL AREA OF OVERHEAD LAUNCH ASSIST: 145 SF / 0.01 AC
      iv. TOTAL NUMBER OF PILES: 8
         (1) PILE TYPE: ALUMINUM
         (2) PILE SIZE: 6" X 3"
4. POND BOARDWALK
   a. TOTAL NUMBER OF PILES: 50
      i. PILE TYPE: TIMBER
      ii. PILE SIZE: 12" DIA.
   b. TOTAL LENGTH OF POND BOARDWALK: 201 FT
      i. WITHIN UPLANDS: 31 FT
      ii. WITHIN WETLANDS: 5 FT
      iii. WITHIN SURFACE WATERS: 165 FT
   c. TOTAL AREA OF POND BOARDWALK: 1,935 SF / 0.05 AC
      i. WITHIN UPLANDS: 158 SF / 0.01 AC
      ii. WITHIN WETLANDS: 7 SF / 0.0002 AC
      iii. WITHIN SURFACE WATERS: 1,770 SF / 0.04 AC
   d. WIDTH OF POND BOARDWALK: 8 FT – 20 FT
      i. TYPICAL WIDTH: 8 FT
      ii. BUMPOUT WIDTH: 20 FT
   e. TOTAL NUMBER OF SHADE STRUCTURES: 1
   f. DECKING, PILES, AND HANDRAILS WILL BE TIMBER.
5. MATTIE KELLY PARK BOARDWALK IMPROVEMENTS
   a. TOTAL NUMBER OF NEW PILES: 30
      i. PILE TYPE: TIMBER
      ii. PILE SIZE: 12" DIA.
   b. TOTAL LENGTH OF BOARDWALK IMPROVEMENTS: 455 FT
      i. WITHIN UPLANDS: 28 FT
      ii. WITHIN WETLANDS: 427 FT
   c. TOTAL AREA OF BOARDWALK IMPROVEMENTS: 3,705 SF / 0.09 AC
      i. WITHIN UPLANDS: 195 SF / 0.01 AC
      ii. WITHIN WETLANDS: 3,510 SF / 0.08 AC
   d. WIDTH OF BOARDWALK IMPROVEMENTS: 6 FT – 26 FT
      i. TYPICAL WIDTH: 6 FT
      ii. BUMPOUT WIDTH: 14 FT – 26 FT
   e. TOTAL NUMBER OF SHADE STRUCTURES: 1
   f. DECKING, PILES, AND HANDRAILS WILL BE TIMBER.
6. TIMBER FISHING PIER
   a. TOTAL NUMBER OF NEW PILES: 55
      i. PILE TYPE: TIMBER
      ii. PILE SIZE: 12" DIA.
   b. TOTAL NUMBER OF PILES TO BE REMOVED: 70
   c. TOTAL LENGTH OF FISHING PIER EXTENSION: 242 FT
      i. ABOVE MHWL: 6 FT
      ii. BELOW MHWL: 236 FT
   d. TOTAL LENGTH OF FISHING PIER REPAIR: 211 FT
      i. ABOVE MHWL: 0 FT
      ii. BELOW MHWL: 211 FT
   e. TOTAL LENGTH OF FISHING PIER REMOVAL: 266 FT
      i. ABOVE MHWL: 25 FT
      ii. BELOW MHWL: 241 FT
   f. TOTAL AREA OF FISHING PIER EXTENSION: 2,120 SF / 0.05 AC
      i. ABOVE MHWL: 45 SF / 0.001 AC
      ii. BELOW MHWL: 2,075 SF / 0.05 AC
   g. TOTAL AREA OF FISHING PIER REPAIR: 1,860 SF / 0.04 AC
      i. ABOVE MHWL: 0 SF / 0 AC
      ii. BELOW MHWL: 1,860 SF / 0.04 AC
   h. TOTAL AREA OF FISHING PIER REMOVAL: 1,756 SF/ 0.04 AC
      i. ABOVE MHWL: 144 SF / 0.003 AC
      ii. BELOW MHWL: 1,612 SF / 0.04 AC
   i. WIDTH OF FISHING PIER: 6 FT – 8 FT
   j. DECKING, PILES, AND HANDRAILS WILL BE TIMBER.

PROPOSED SHEETPILE PLAN

1. TOTAL NUMBER OF PROPOSED SHEETPILE WALLS: 3
   a. TOTAL NUMBER OF PERMANENT SHEETPILE WALLS: 2
   b. TOTAL NUMBER OF TEMPORARY SHEET PILE WALLS: 1
2. TOTAL LENGTH OF PROPOSED PERMANENT SHEETPILE WALLS: 552 FT
   a. TOTAL LENGTH OF PROPOSED SEAWALL: 346 FT
      i. ABOVE MHWL: 346 FT
      ii. BELOW MHWL: 0 FT
   b. TOTAL LENGTH OF PROPOSED RETURN WALL: 46 FT
      i. ABOVE MHWL: 46 FT
      ii. BELOW MHWL: 0 FT
   c. TOTAL LENGTH OF PROPOSED GROIN: 160 FT
      i. ABOVE MHWL: 25 FT
      ii. BELOW MHWL: 135 FT
3. TOTAL LENGTH OF EXISTING SEAWALL: 462 FT
4. SHEET PILES WILL EITHER BE VINYL OR STEEL, DEPENDING ON CONTRACTOR PREFERENCE, AND WILL COMPRISE ONLY NON-LEACHING MATERIALS.
5. IN LOCATIONS WHERE THE PROPOSED SHEET PILES ARE INTENDED TO BE USED AS A SEAWALL OR GROIN, A CONCRETE CAP WILL BE INCORPORATED.

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FIGURE 6
REGULATORY PERMIT QUANTITIES
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY #4815

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

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PROPOSED BOAT RAMP PLAN

1. BOAT RAMP TO CONSIST OF TWO 10-IN THICK CONCRETE SLABS OVERTOP AN 24-IN THICK LAYER OF PEA GRAVEL. AS NECESSARY, UP TO 48-IN UNSUITABLE MATERIAL MAY BE EXCAVATED AND REPLACED WITH SUITABLE MATERIAL.
2. TOTAL NUMBER OF EXISTING BOAT RAMPS: 2
3. TOTAL NUMBER OF PROPOSED BOAT RAMPS: 2
4. TOTAL NUMBER OF EXISTING BOAT LANES: 2
5. TOTAL NUMBER OF PROPOSED BOAT LANES: 2
6. MAXIMUM DISTANCE OF PROPOSED BOAT RAMP FROM MHWL: 65 FT
7. PROPOSED BOAT RAMP GRADE: -13.0%
8. PROPOSED BOAT LANE WIDTH: 35 FT
9. TOTAL LENGTH OF PROPOSED BOAT RAMP: 80 FT
10. TOTAL AREA PROPOSED BOAT RAMP: 5,550 SF / 0.13 AC
    a. ABOVE MHWL: 2,361 SF / 0.06 AC
    b. BELOW MHWL: 3,189 SF / 0.07 AC

PROPOSED DEMOLITION PLAN

1. TOTAL NUMBER OF AREAS PROPOSED FOR SHORE PROTECTION FEATURE REMOVAL: 3
    a. 3 EMBAYMENTS WILL BE CREATED ALONG THE EXISTING SHORELINE THROUGH REMOVAL OF EXISTING RIPRAP AND REGRADING.
    b. TOTAL LENGTH OF EMBAYMENTS: 150 FT
    C. TOTAL AREA OF RIPRAP REMOVAL: 13,050 SF / 0.30 AC
2. TOTAL NUMBER OF PILE-SUPPORTED STRUCTURES TO BE DEMOLISHED: 6
    a. WITHIN THE BOATING FACILITY 4 EXISTING PIERS WILL BE DEMOLISHED AND REPLACED WITH 3 PROPOSED PIERS.
        i. TOTAL NUMBER OF PILES TO BE REMOVED: 110
        ii. TOTAL NUMBER OF PILES TO BE REUSED: 0
        iii. TOTAL AREA EXISTING PIERS: 2,951 SF / 0.07 AC
        iv. TOTAL AREA PROPOSED PIERS: 4,275 SF / 0.10 AC
    b. 1 EXISTING BOARDWALK WITHIN MATTIE KELLY PARK WILL BE DEMOLISHED AND REPLACED.
        i. TOTAL NUMBER OF PILES TO BE REMOVED: 12
        ii. TOTAL NUMBER OF PILES TO BE REUSED: 80
        iii. TOTAL AREA EXISTING BOARDWALK: 2,718 SF / 0.06 AC
        iv. TOTAL AREA PROPOSED BOARDWALK: 3,705 SF / 0.09 AC
    c. 1 EXISTING TIMBER FISHING PIER WILL BE DEMOLISHED AND WILL BE REPLACED IN A SLIGHTLY DIFFERENT CONFIGURATION.
        i. TOTAL NUMBER OF PILES TO BE REMOVED: 70
        ii. TOTAL NUMBER OF PILES TO BE REUSED: 50
        iii. TOTAL AREA EXISTING FISHING PIER: 3,148 SF / 0.07 AC
        iv. TOTAL AREA PROPOSED FISHING PIER: 3,980 SF / 0.09 AC
3. TOTAL NUMBER OF CONCRETE BOAT RAMPS TO BE DEMOLISHED: 3
    a. WITHIN THE BOATING FACILITY, 3 EXISTING CONCRETE BOAT RAMPS WILL BE REMOVED AND REPLACED WITH 2 CONCRETE BOAT RAMPS.
    b. TOTAL AREA OF EXISTING BOAT RAMPS: 5,375 SF / 0.12 AC
    c. TOTAL AREA OF PROPOSED BOAT RAMPS: 5,550 SF / 0.13 AC
    d. TOTAL WIDTH OF EXISTING BOAT RAMPS: 80 FT
    e. TOTAL WIDTH OF PROPOSED BOAT RAMPS: 70 FT
4. TOTAL NUMBER OF GROINS S TO BE DEMOLISHED: 2
    a. WITHIN THE BOATING FACILITY, 2 EXISTING GROINS WILL BE REMOVED UNDER EXISTING PIERS 1 AND 3. NO TIE BACK SYSTEM IS PRESENT FOR THE EXISTING GROINS. THESE GROINS WILL BE REPLACED BY A SINGLE GROIN WITH A TIEBACK SYSTEM EXTENDING INTO THE UPLANDS.
    b. TOTAL LENGTH OF EXISTING GROINS: 130 FT (75 FT + 55 FT)
    c. TOTAL LENGTH OF PROPOSED GROIN: 160 FT

PROPOSED SIGN AND BUOY PLAN

1. TOTAL NUMBER OF PROPOSED SIGNS: 51
    a. TOTAL NUMBER OF EDUCATIONAL SIGNS: 33
    b. TOTAL NUMBER OF SAFETY SIGNS: 12
    c. TOTAL NUMBER OF NO MOORING SIGNS: 6
2. TOTAL NUMBER OF PROPOSED PERMANENT BUOYS: 6
    a. TOTAL NUMBER OF BUOY B1 (PADDLECRAFT ONLY): 2
    b. TOTAL NUMBER OF BUOY B2 (CAUTION SEAGRASS): 4
3. TOTAL NUMBER OF EXISTING BUOYS TO BE REMOVED: 2

PROPOSED UPLAND FEATURES AND DREDGED MATERIAL MANAGEMENT PLAN

1. TOTAL AREA UPLAND-CUT HOLDING POND TO BE FILLED: 6,000 SF / 0.14 AC
2. TOTAL AREA SAND SHORELINE EXCAVATION: 2,205 SF / 0 05 AC
3. TOTAL AREA TEMPORARY DMMA: 32,860 SF / 0.75 AC

PROPOSED DREDGING PLAN

1. MAXIMUM DREDGING DEPTH: -6 FT (NAVD88) + 1 FT ALLOWABLE OVERDREDGE
2. TOTAL DREDGING AREA (BELOW MHWL): 18,600 SF / 0.43 AC
    i. BOAT RAMP FACILITY: 14,600 SF / 0.34 AC
    ii. MOORING AREA: 4,000 SF / 0.09 AC
3. TOTAL DREDGING VOLUME (BELOW MHWL): 1,360 CY
    a. BOAT RAMP FACILITY: 1162 CY
    b. MOORING AREA: 198 CY

PROPOSED PRESERVATION, RESTORATION, ENHACEMENT, AND CREATION PLAN

1. TOTAL PRESERVATION AREA: 119,843 SF / 2.75 AC
2. TOTAL RESTORATION AREA: 7,845 SF / 0.18 AC
3. TOTAL ENHANCEMENT AREA: 381,573 SF / 9.02 AC
    a. LITTORAL PLANTING ELEVATIONS: -1.5 FT TO +1.5 FT RELATIVE TO APPROXIMATE MEAN POND ELEVATION (+2 FT NAVD88)
4. TOTAL CREATION AREA: 2,650 SF / 0.06 AC
    a. REEF HABITAT CREATION VOLUME: 200 CY
5. REFER TO FIGURE 14 PRESERVATION, RESTORATION, ENHANCEMENT, AND CREATION FOR ADDITIONAL DETAILS.

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FIGURE 7
REGULATORY PERMIT QUANTITIES
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
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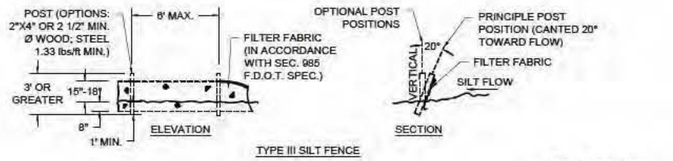
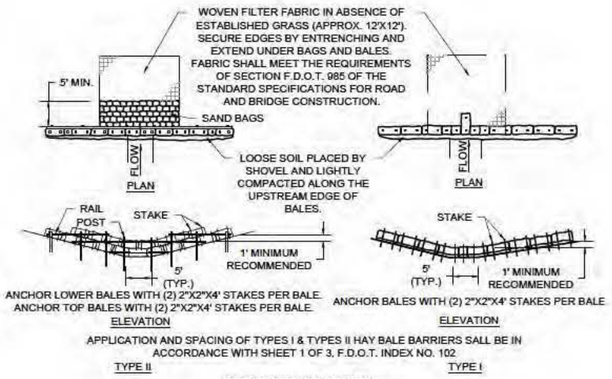


TYPE III SILT FENCE

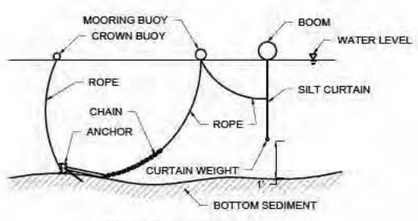
TYPE IV SILT FENCE



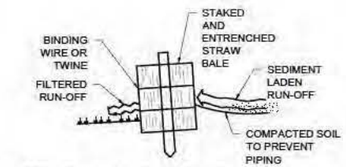
APPLICATION AND SPACING OF TYPES I & TYPES II HAY BALE BARRIERS SALL BE IN ACCORDANCE WITH SHEET 1 OF 3, F.D.O.T. INDEX NO. 102

TYPE II TYPE I

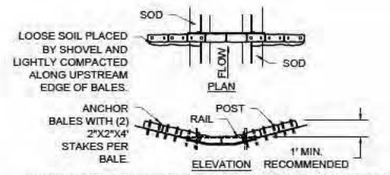
TYPICAL STRAW BALE DETAIL



TURBIDITY CURTAIN DETAIL

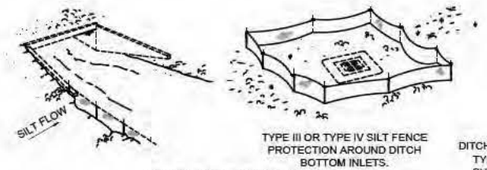


CROSS SECTION OF A PROPERLY INSTALLED STRAW BALE



SPACING: BALE BARRIERS FOR PAVED DITCHES SHOULD BE SPACED IN ACCORDANCE WITH CHART I, SHEET 1 OF 3, INDEX NO. 102 OF THE F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS.

STRAW BALE BARRIER FOR PAVED DITCH



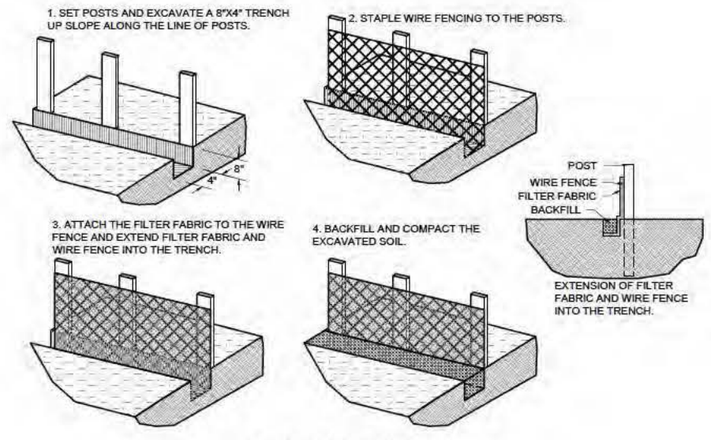
TYPE III OR TYPE IV SILT FENCE

TYPE III OR TYPE IV SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS.

TYPE III AND IV SILT FENCE

DITCH INSTALLATION AND SPACING FOR TYPE III & TYPE IV FENCE TO BE IN ACCORDANCE WITH SHEET 1 OF 3, OF THE F.D.O.T. INDEX NO. 102

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.



SILT FENCE INSTALLATION DETAILS

FIGURE 8
EROSION CONTROL DETAILS
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

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SIGN E1 (5 TOTAL)

SIGN E2 (5 TOTAL)

SIGN E3 (5 TOTAL)

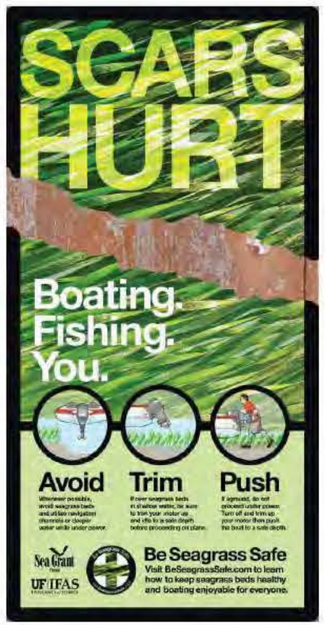
SIGN E4 (5 TOTAL)

COASTAL HABITAT SIGN
(TO BE ADDED)

SIGN E5 (5 TOTAL)

WETLAND HABITAT SIGN
(TO BE ADDED)

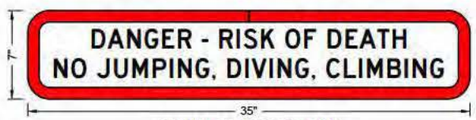
SIGN E6 (3 TOTAL)



SIGN E7 (3 TOTAL)

SIGN E8 (2 TOTAL)

SIGN S1 (6 TOTAL)

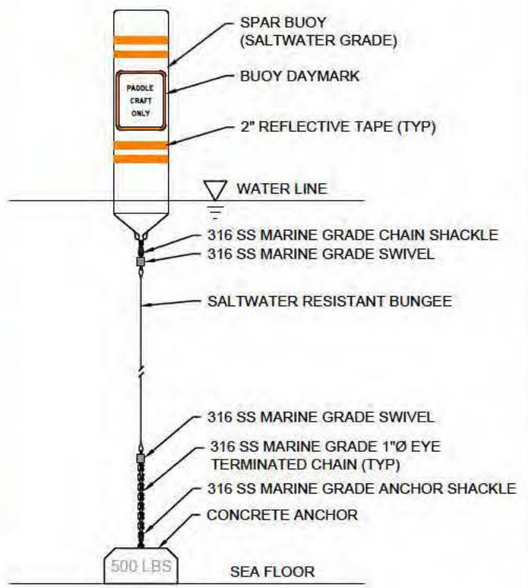


SIGN S2 (6 TOTAL)

SIGN M1 (6 TOTAL)

BUOY B1 (2 TOTAL)

BUOY B2 (4 TOTAL)



TYPICAL BUOY DETAIL
NOT TO SCALE

FIGURE 9
SIGNAGE
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

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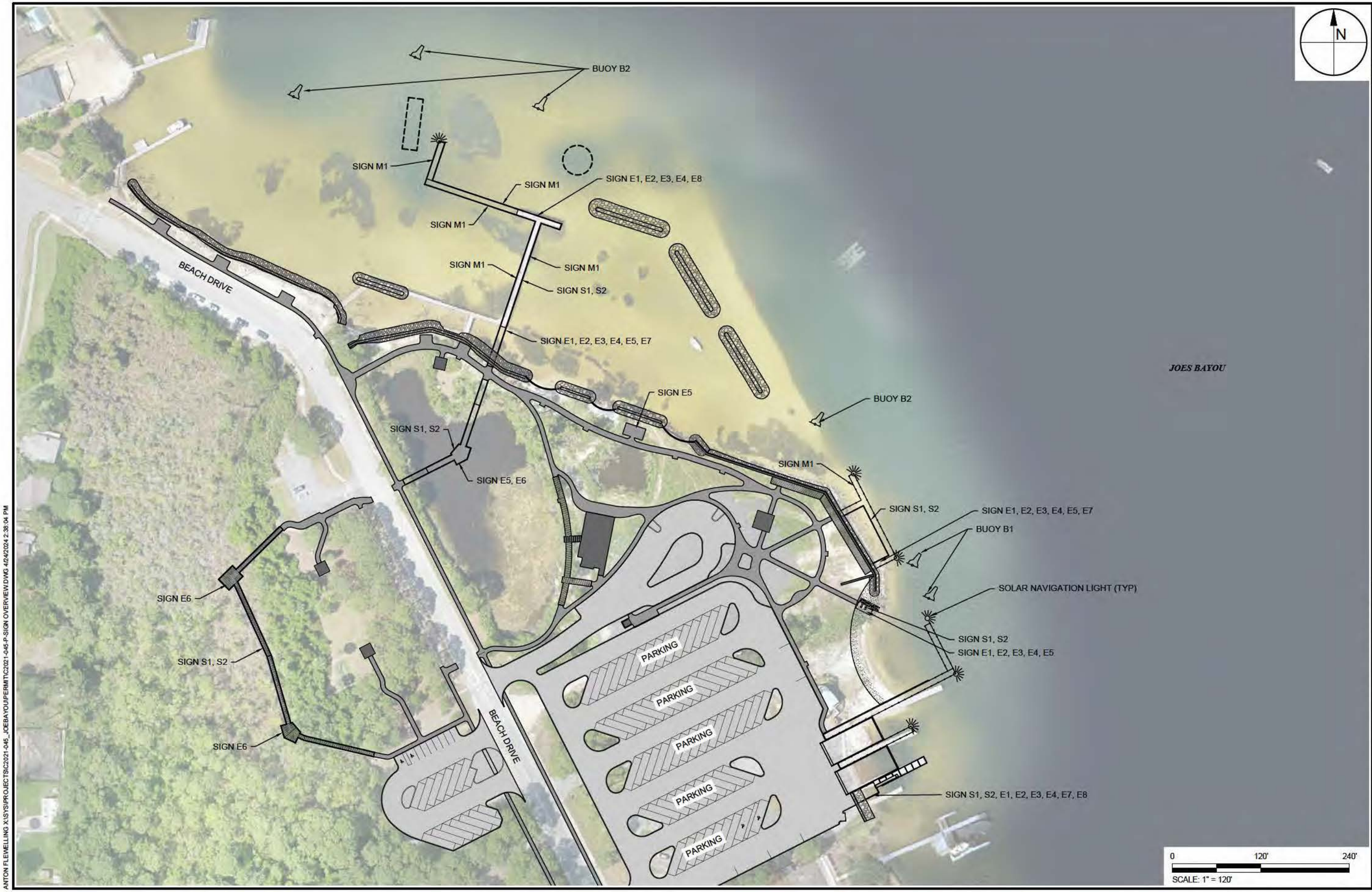

FIGURE 10
SIGNAGE OVERVIEW
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

PROJECT	C2021-045
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Legend:

- SERVICE POLE
- STORM MANHOLE
- POWER POLE
- LIGHT POLE
- WATER METER
- FIRE HYDRANT
- GUY ANCHORS
- SANITARY SEWER MANHOLE
- SANITARY SEWER VALVE
- TEMPORARY BENCHMARK
- SET IRON ROD 1/2" 7191
- FOUND IRON ROD OR PIPE
- FOUND CONCRETE MONUMENT
- FOUND NAIL & DISC
- BIKE RACK
- PARK BENCHES/TABLES
- TELEPHONE SERVICE BOX
- SET NAIL AND DISC 7191
- BACK FLOW PREVENTER VALVE
- SIGN

Tree Legend:

- OAK TREE
- PINE TREE
- PEAR TREE
- MAGNOLIA TREE
- PALM TREE
- CEDAR TREE
- BIRCH TREE

- EDGE OF WATER
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- CENTERLINE OF R/W
- WETLANDS LINE
- 1' CONTOUR (MINOR)
- 5' CONTOUR (MAJOR)
- WL — UNDERGROUND WATER LINE
- E-SWR — SANITARY SEWER LINE
- WOOD PRIVACY FENCE
- CHAIN-LINK FENCE
- OHE — OVERHEAD ELECTRIC LINE
- EDGE OF WOODS

- ASPHALT
- CONCRETE
- GRAVEL
- MILLED ASPHALT
- RIP RAP

PROJECT	C2021-045
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DATE	DEC 2023

FIGURE 11
EXISTING CONDITIONS
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
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PROJECT C2021-045
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DATE DEC 2023

FIGURE 12
PROJECT OVERVIEW
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

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4300 LEGENDARY DRIVE SUITE C246
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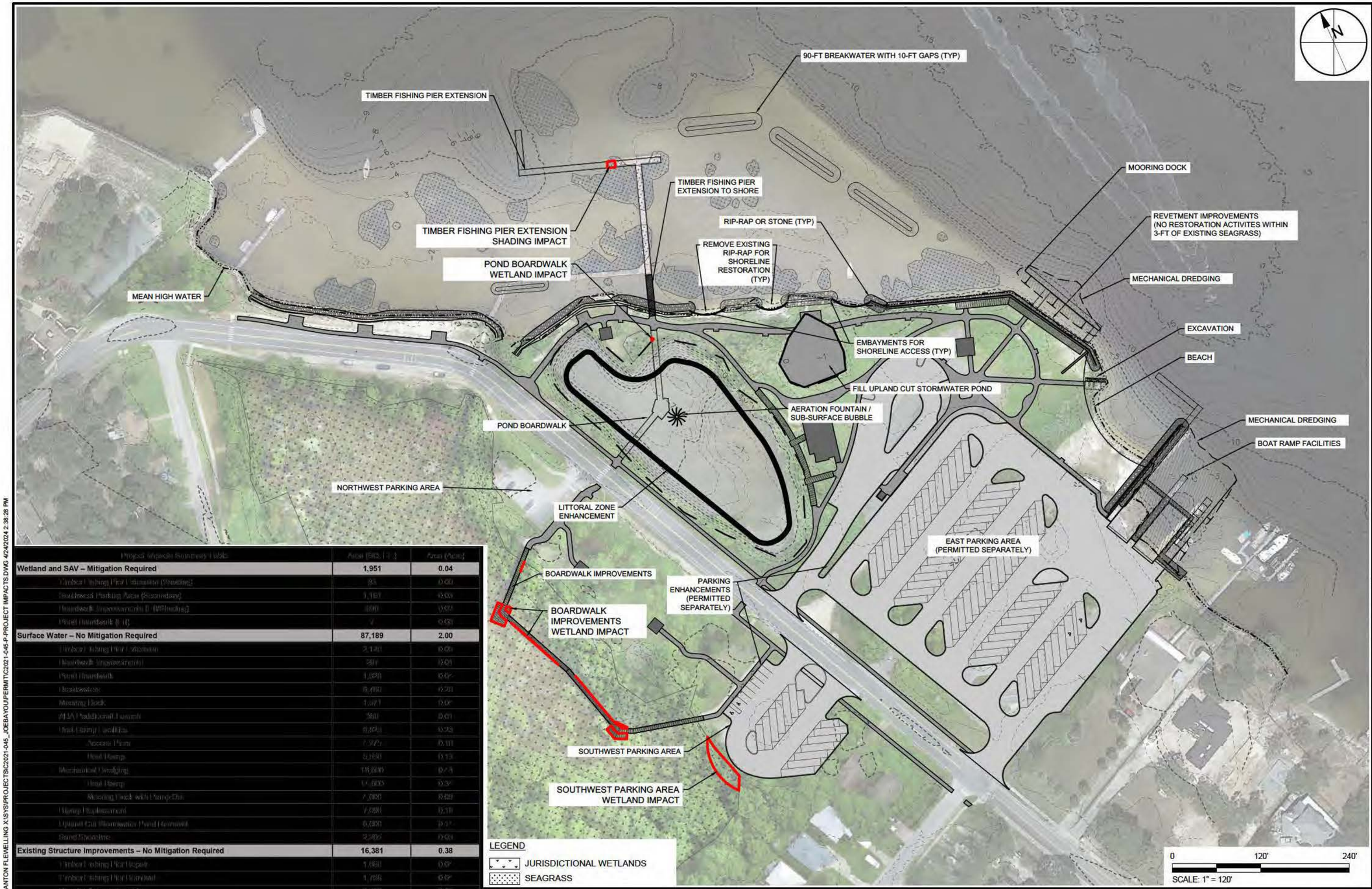

Project Impacts Summary Table	Area (SQ. FT.)	Area (Acre)
Wetland and SAV – Mitigation Required	**1,951**	**0.04**
Timber Fishing Pier Extension (Shading)	93	0.00
Southwest Parking Area (Secondary)	1,187	0.03
Boardwalk Improvements (Wetland)	600	0.01
Pond Boardwalk (Wetland)	71	0.00
Surface Water – No Mitigation Required	**87,189**	**2.00**
Timber Fishing Pier Extension	2,140	0.05
Boardwalk Improvements	391	0.01
Pond Boardwalk	1,020	0.02
Breakwater	6,000	0.14
Mooring Dock	1,077	0.02
ADA Paddlecraft Launch	360	0.01
Boat Ramp Facilities	9,000	0.21
Access Pier	7,970	0.18
Boat Ramp	5,000	0.11
Mechanical Dredging	19,600	0.45
Boat Ramp	14,605	0.34
Mooring Dock with Paddle Dock	2,000	0.05
Piping Replacement	7,000	0.16
Upland Cut Stormwater Pond Removal	6,000	0.14
Sand Placement	2,400	0.06
Existing Structure Improvements – No Mitigation Required	**16,381**	**0.38**
Timber Fishing Pier Repair	1,000	0.02
Timber Fishing Pier Removal	1,700	0.04
Boardwalk Improvements	2,700	0.06
Piping Placement	10,981	0.25

FIGURE 13
PROJECT IMPACTS
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

PROJECT	C2021-045
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DATE	DEC 2023

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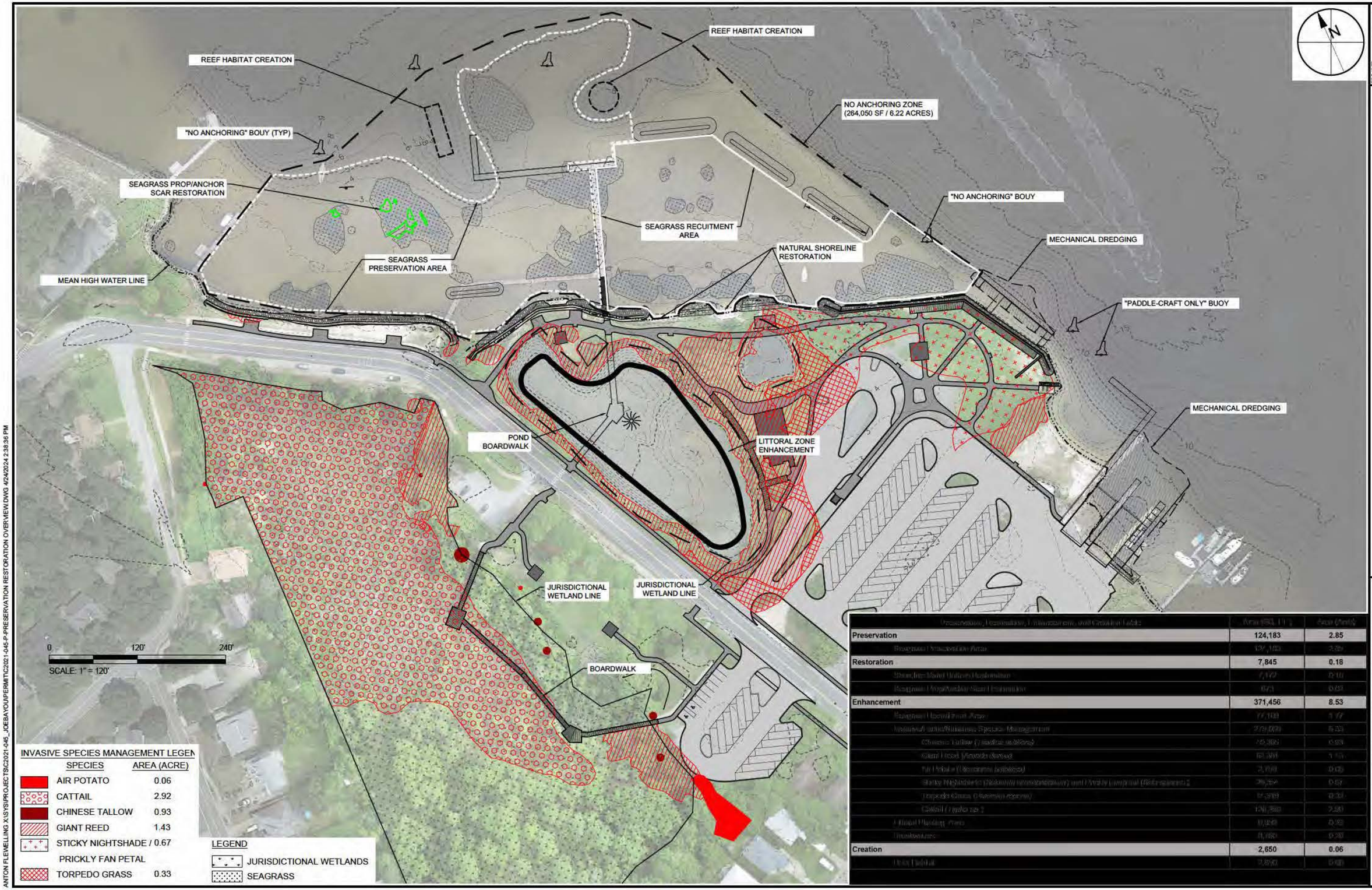

Preservation, Restoration, Enhancement, and Creation Table	Area (SF)	Area (Ac)
Preservation	**124,183**	**2.85**
Seagrass Preservation Area	124,183	2.85
Restoration	**7,845**	**0.18**
Shoreline Natural Oyster Restoration	7,172	0.16
Seagrass Prop/Anchor Scar Restoration	673	0.02
Enhancement	**371,456**	**8.53**
Seagrass Recruitment Area	77,049	1.77
Invasive Species Management	279,009	6.41
Chinese Tallow (*Triadica sebifera*)	40,586	0.93
Giant Reed (*Arundo donax*)	62,384	1.43
Air Potato (*Dioscorea bulbifera*)	2,614	0.06
Sticky Nightshade (*Solanum viarum*) and Prickly Pampinal (*Ruellia*)	29,204	0.67
Torpedo Grass (*Panicum repens*)	14,549	0.33
Cattail (*Typha* sp.)	127,382	2.92
Littoral Planting Area	12,849	0.29
Breakwaters	8,160	0.19
Creation	**2,650**	**0.06**
Reef Habitat	2,650	0.06

FIGURE 14
PRESERVATION, RESTORATION, ENHANCEMENT, AND CREATION
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

PROJECT	C2021-045
DRAWN BY	AF
SHEET	14 of 24
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TAYLOR ENGINEERING INC.
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DESTIN, FLORIDA 32541
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NOTE: NO SEAGRASS IN THIS AREA

EXAMPLE TURBIDITY CURTAIN

DREDGING LIMITS
DREDGE TO -6' NAVD88

PADDLE-CRAFT ONLY BUOY

FLEXIBLE MOORING AREA (TYP)

RIPARIAN LINE

RIPARIAN LINE 25' OFFSET

25'

FLEXIBLE MOORING 1 (129 LF)

129'

FLEXIBLE MOORING 2 (77 LF)

77'

FIXED
TIMBER
PIER

SHEET PILE WALL AND RIRAP
SEE FIG 22

RIPRAP

SHEET PILE GROIN WITH CONCRETE CAP

FLEXIBLE MOORING 3 (162 LF)

ADA PADDLE-CRAFT
LAUNCH (SEE FIG 18)

MEAN HIGH
WATER (TYP)

FIXED
TIMBER
PIER

FLOATING DOCK

SAND SHORELINE

EXCAVATION, SEE FIG 18

5' WIDE RIPRAP TOE
PROTECTION (TYP)

FLEXIBLE MOORING 4 (76 LF)

FLEXIBLE MOORING 5 (76 LF)

FLEXIBLE MOORING 6 (73 LF)

FLEXIBLE MOORING 7 (43 LF)

UPLAND STORMWATER AND
IMPERVIOUS FEATURES
PERMITTED SEPARATELY

5' WIDE
GANGWAY

SHORELINE
REVETMENT TO
PROPERTY LINE

2-LANE CONCRETE BOAT RAMP

SLIP SCHEDULE		
SLIP	LENGTH (FT)	MAX VESSELS
1	129	5
2	77	3
3	162	7
4	76	3
5	76	3
6	73	3
7	43	2
TOTAL		26

0 30' 60'
SCALE: 1" = 30'

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FIGURE 15
BOAT RAMP PLAN
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4815

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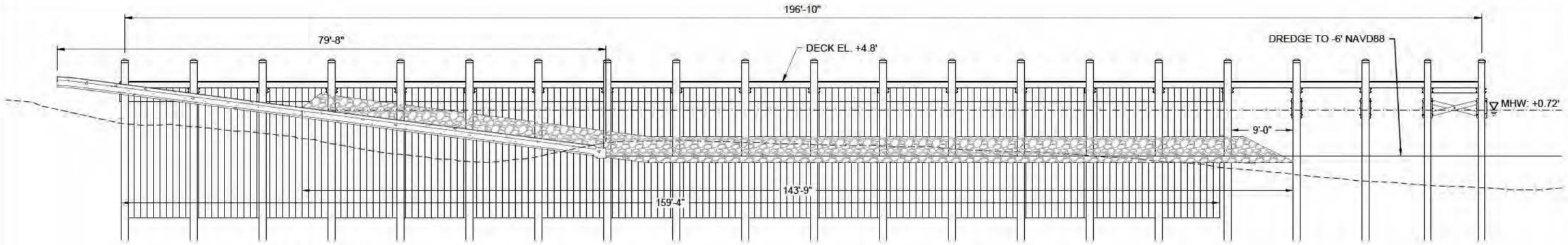
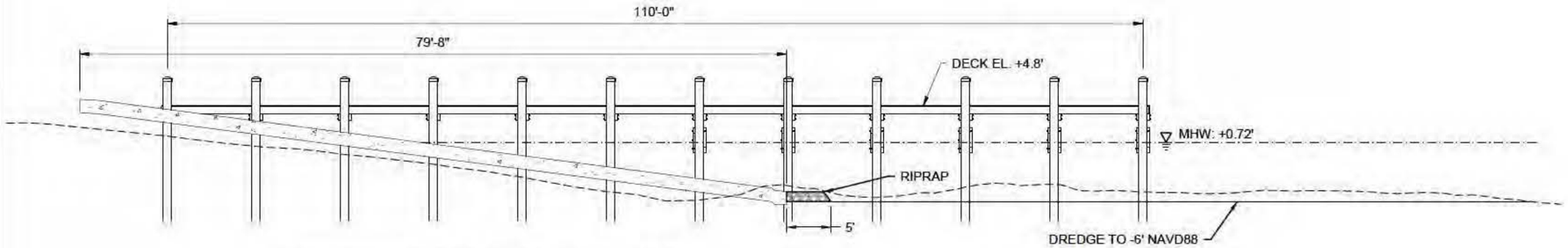
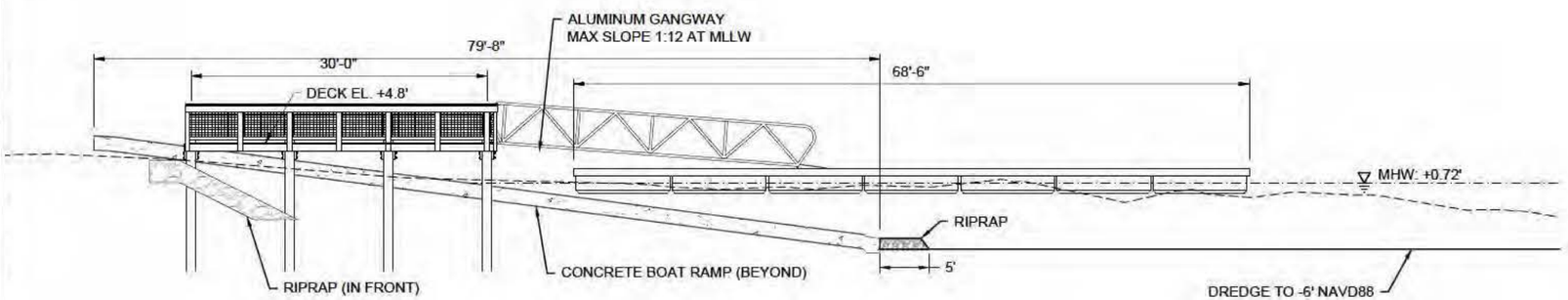


A BOAT RAMP ACCESS PIER 1 PROFILE
SCALE: 1" = 15' 0 15'



B BOAT RAMP ACCESS PIER 2 PROFILE
SCALE: 1" = 15' 0 15'



C BOAT RAMP FLOATING DOCK PROFILE
SCALE: 1" = 15' 0 15'

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FIGURE 16
BOAT RAMP ELEVATIONS
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
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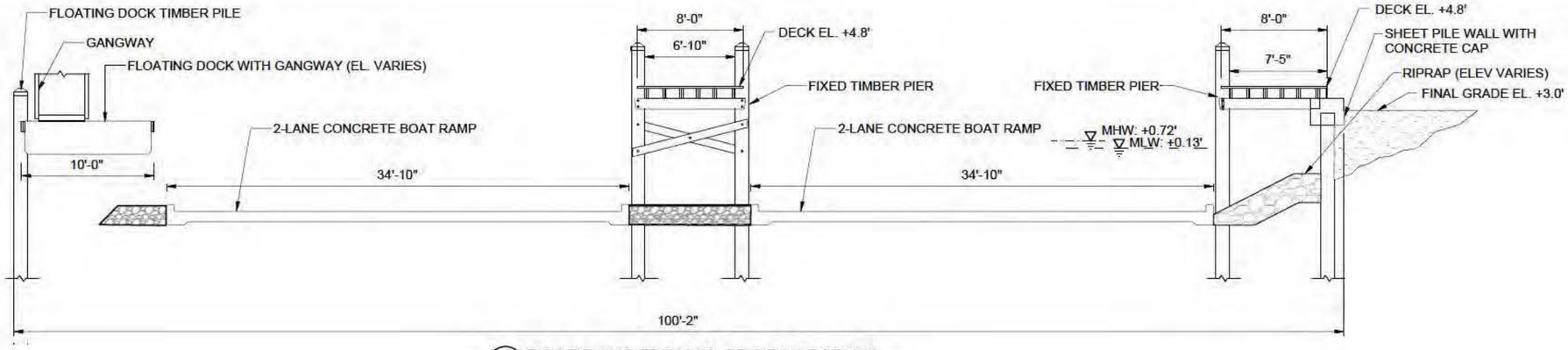
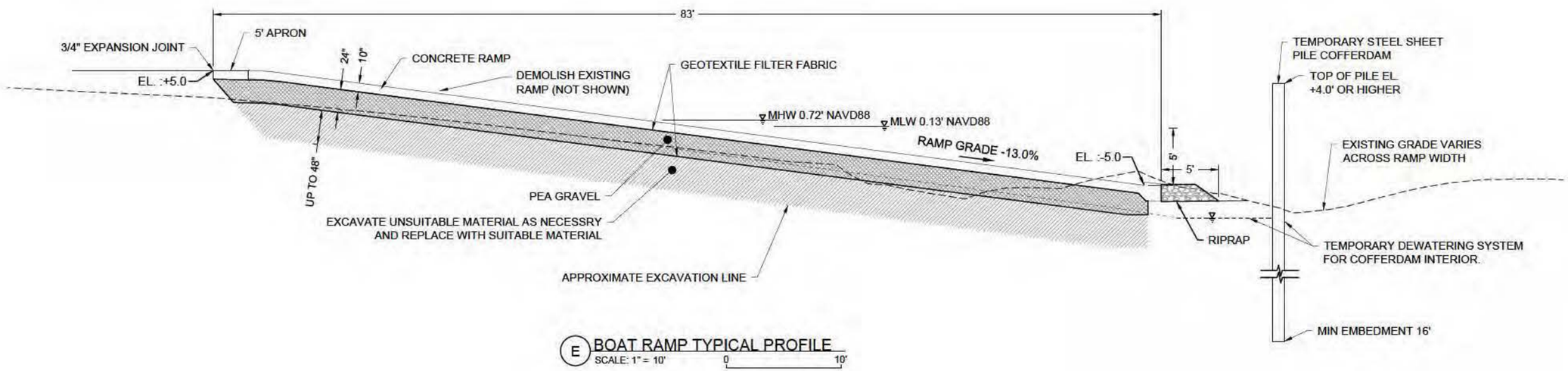
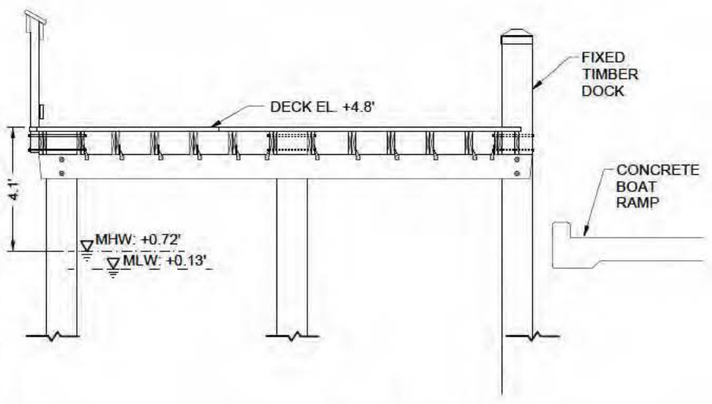


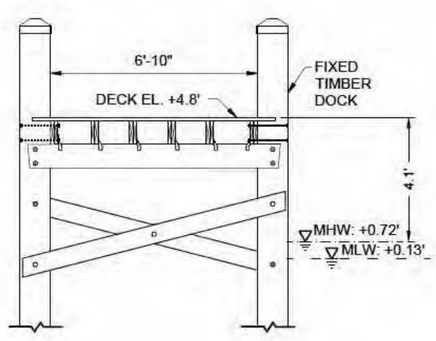
D BOAT RAMP TYPICAL CROSS SECTION
SCALE: 1" = 10' 0 10'



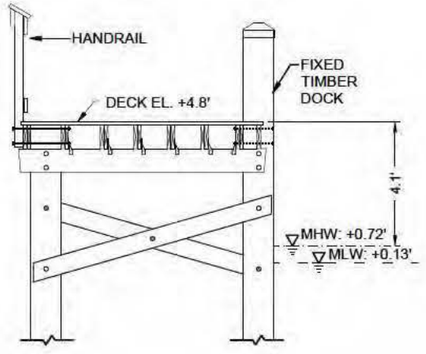
E BOAT RAMP TYPICAL PROFILE
SCALE: 1" = 10' 0 10'



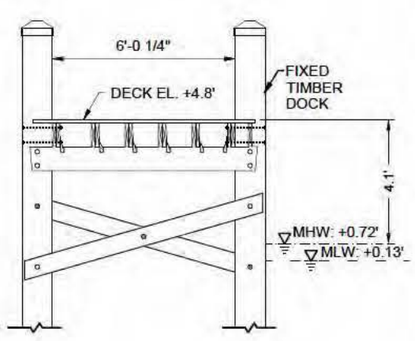
F ADA TIMBER DOCK TYPICAL CROSS-SECTION
SCALE: 1" = 5' 0 5'



G BOAT RAMP ACCESS PIER TYPICAL CROSS-SECTION
SCALE: 1" = 5' 0 5'



H MOORING PIER TYPICAL CROSS-SECTION WITH HANDRAIL
SCALE: 1" = 5' 0 5'



I MOORING PIER TYPICAL CROSS-SECTION
SCALE: 1" = 5' 0 5'

PROJECT	C2021-045
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FIGURE 17
BOAT RAMP DETAILS
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
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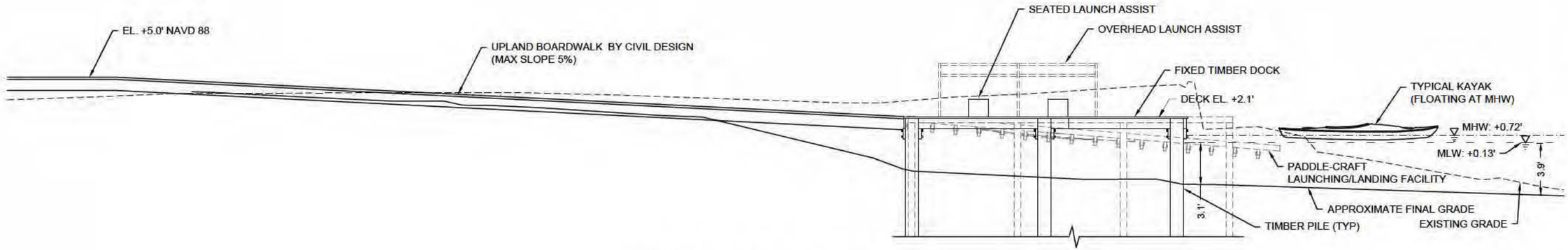
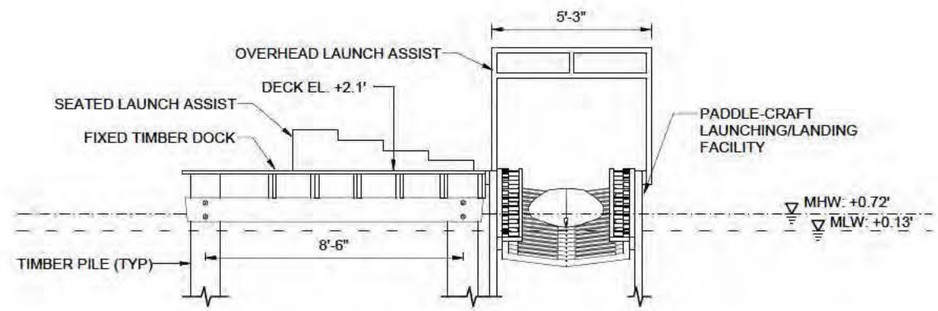
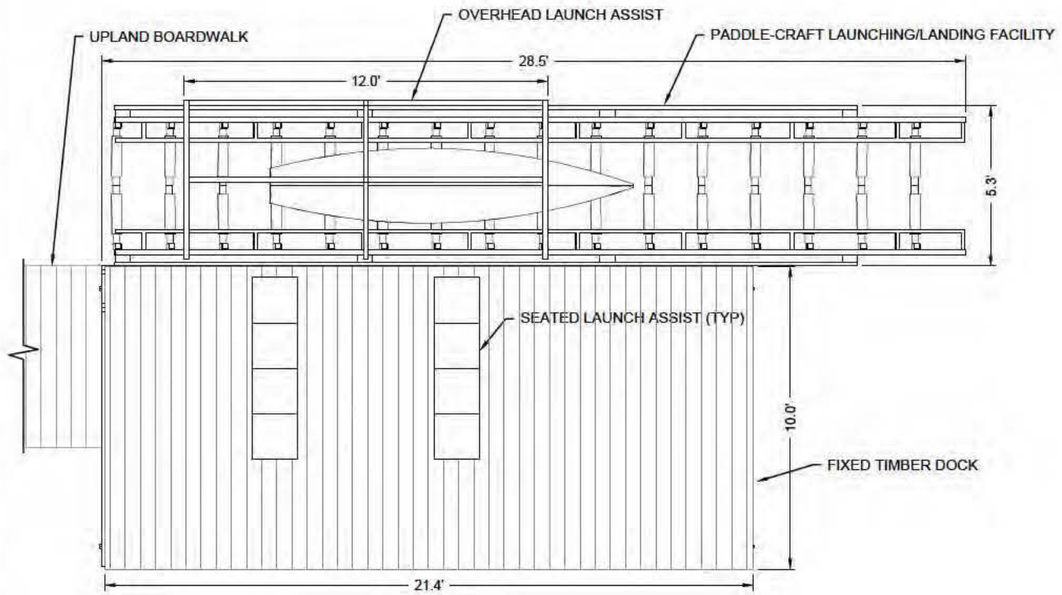


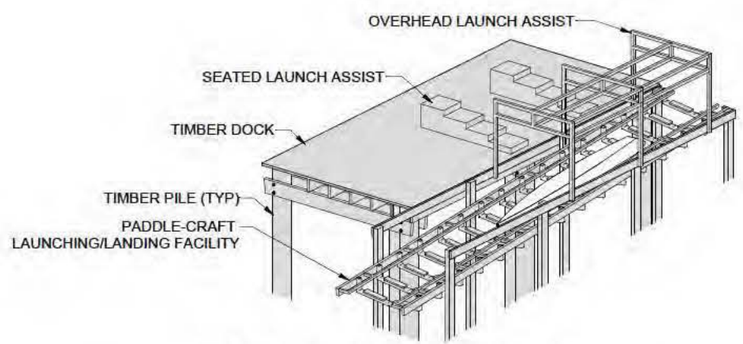
J ADA PADDLE-CRAFT DOCK SIDE ELEVATION
SCALE: 1" = 8' 0 8'



K ADA PADDLE-CRAFT DOCK FRONT ELEVATION
SCALE: 1" = 5' 0 5'



ADA PADDLE-CRAFT DOCK PLAN DETAIL
SCALE: 1" = 5' 0 5'



ADA PADDLE-CRAFT DOCK 3D VIEW
SCALE: 1" = 8' 0 8'

FIGURE 18
PADDLE-CRAFT DOCK DETAILS
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

PROJECT	C2021-045
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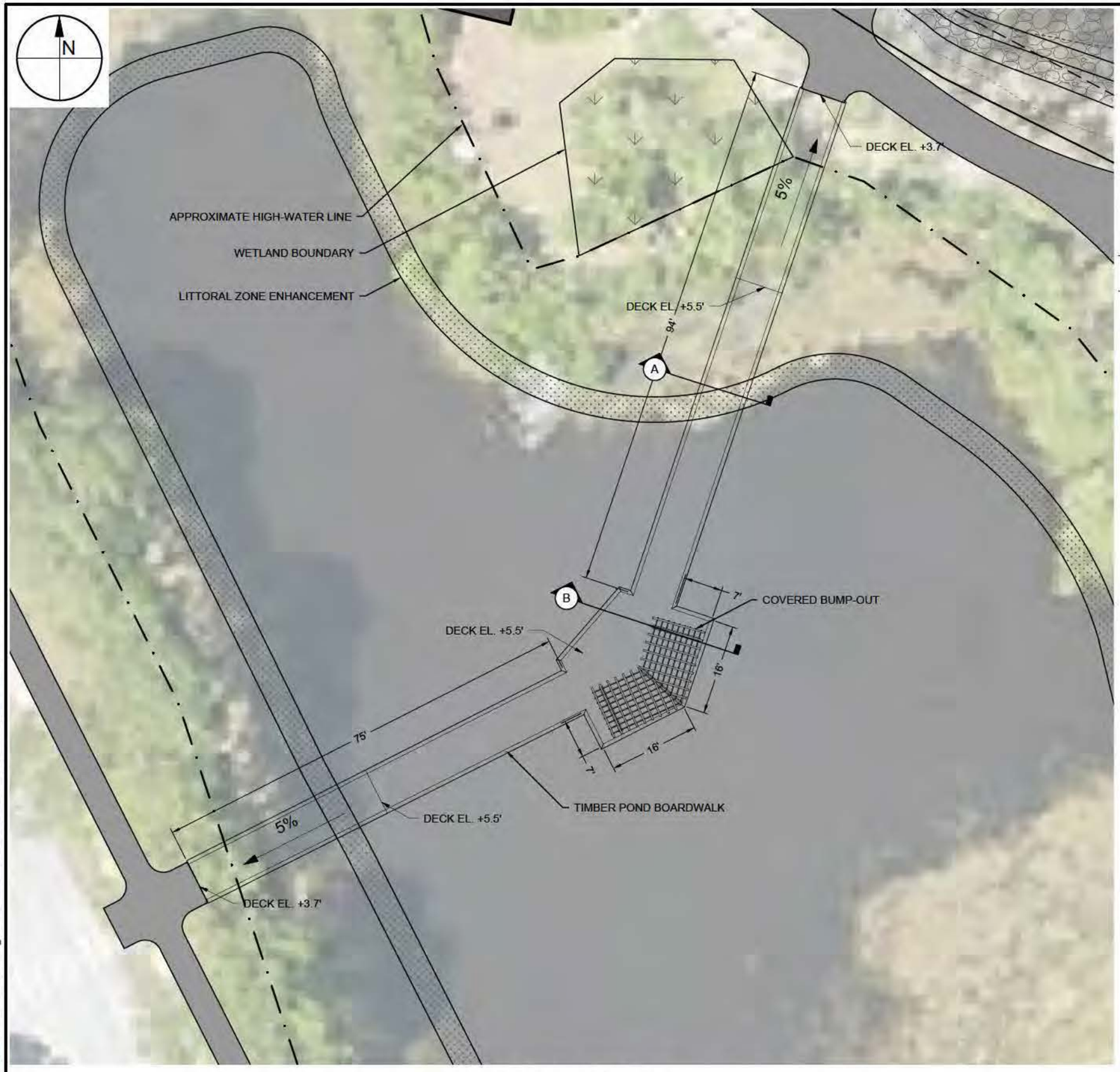
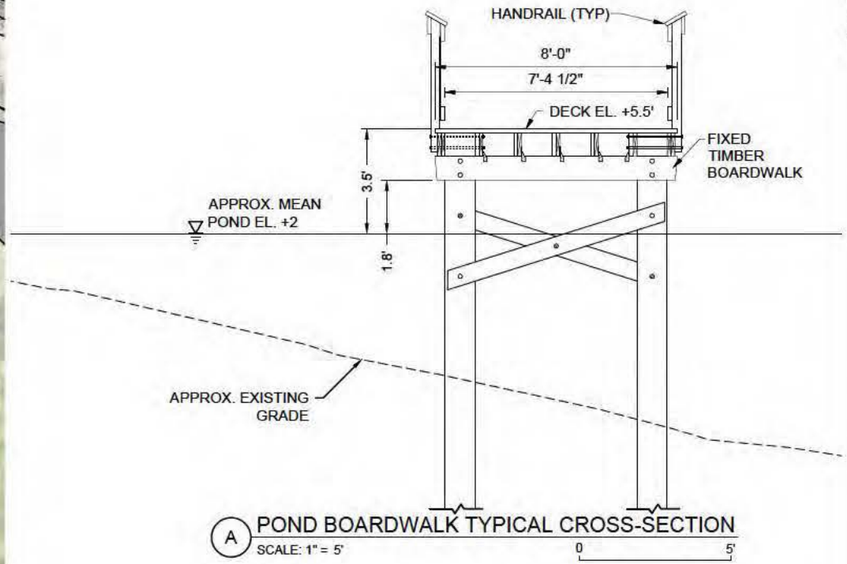
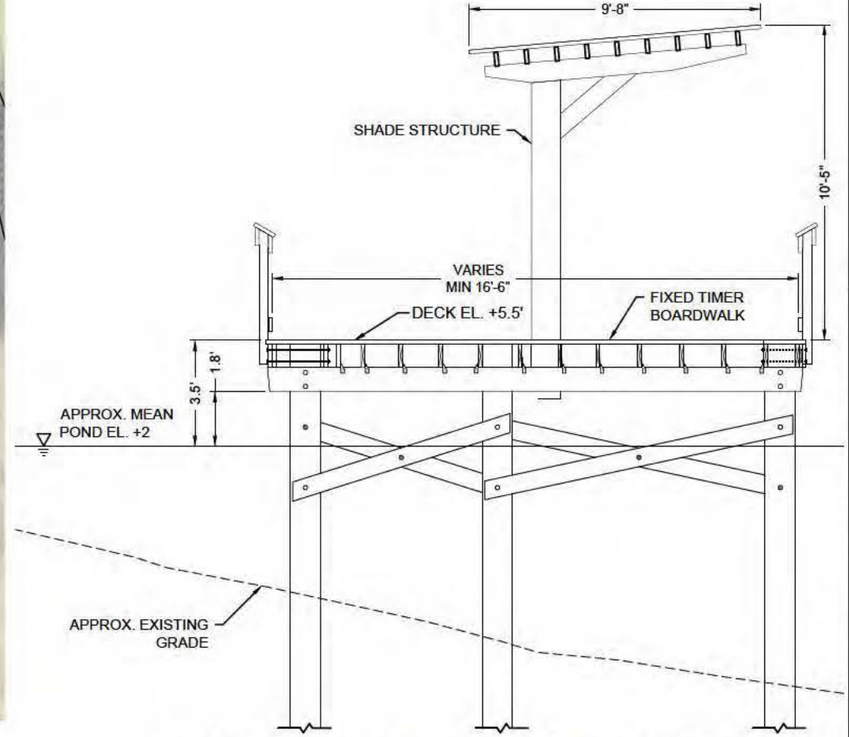


POND BOARDWALK PLAN
SCALE: 1" = 20' 0 20'



A POND BOARDWALK TYPICAL CROSS-SECTION
SCALE: 1" = 5' 0 5'



B POND BOARDWALK TYPICAL BUMP-OUT CROSS-SECTION
SCALE: 1" = 5' 0 5'

PROJECT	C2021-045
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DATE	DEC 2023

FIGURE 19
POND BOARDWALK PLAN AND DETAIL
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4815

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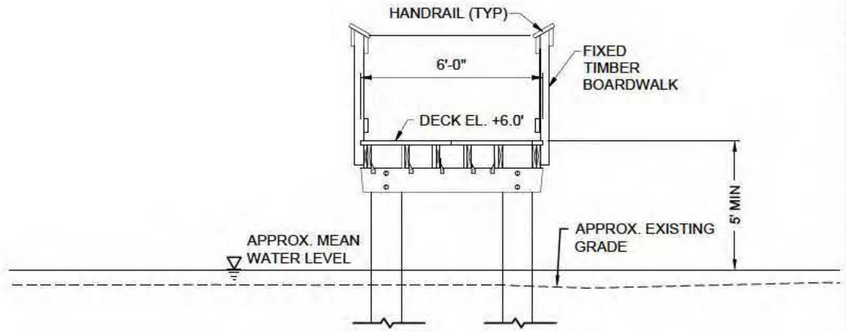
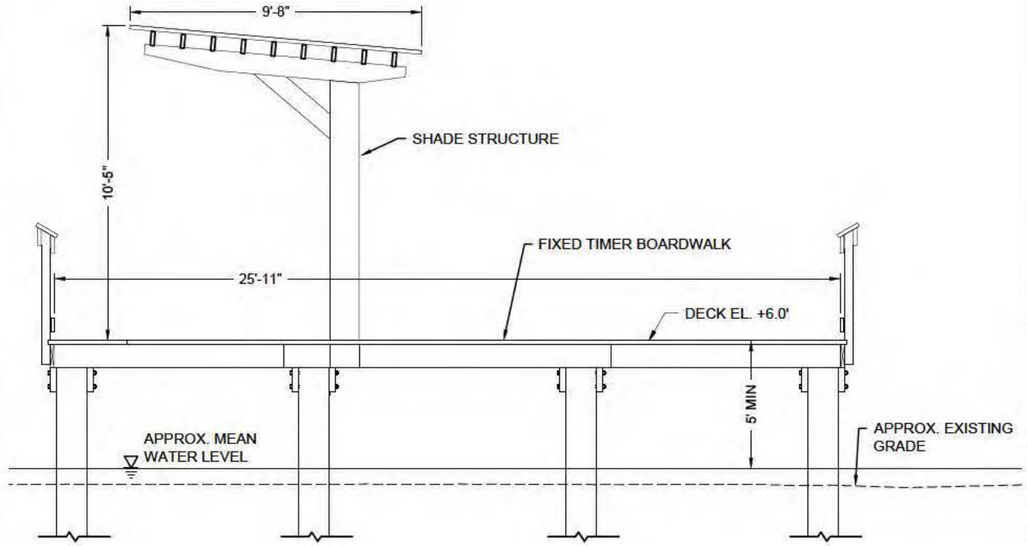
BOARDWALK PLAN
SCALE: 1" = 40' 0 40'



A BOARDWALK TYPICAL CROSS-SECTION
SCALE: 1" = 5' 0 5'



B BOARDWALK TYPICAL BUMP-OUT CROSS-SECTION
SCALE: 1" = 5' 0 5"

N

FIGURE 20
NATURE BOARDWALK PLAN AND DETAIL
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

PROJECT	C2021-045
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DATE	DEC 2023

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4815

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(B2) "NO ANCHORING" BUOY
N: 519406
E: 1340287

(B2) "NO ANCHORING" BUOY
N: 519336
E: 1340454

(B2) "NO ANCHORING" BUOY
N: 519352
E: 1340122

REEF AREA
N: 519351
E: 1340278

20'

N: 519349
E: 1340298

70'

N: 519282
E: 1340270

N: 519279
E: 1340289

REEF AREA
N: 519266
E: 1340507

Ø40'

EXAMPLE TURBIDITY CURTAIN

BREAKWATER (TYP)

194'

8'

63'

FISHING PIER EXTENSION

8'

62'

131'

115'

N
FIG 23

R
FIG 23

PIER REPAIR

6'

205'

FIELD POSITION STRUCTURE FOUNDATIONS TO MAINTAIN 3' FROM SEAGRASSES AT TIME OF CONSTRUCTION

EXISTING SEAGRASS (TYP)

BREAKWATER

79'

EXISTING RIPRAP LIMITS

MEAN HIGH WATER

RIPRAP SHORE PROTECTION (TYP)

349'

EXISTING RIPRAP LIMITS

O
FIG 23

50'

6'

68'

56'

38'

56'

104'

13'

O
FIG 23

WETLAND BOUNDARY

WETLAND BOUNDARY

UPLAND STORMWATER AND IMPERVIOUS FEATURES PERMITTED SEPARATELY

APPROXIMATE POND HIGH-WATER LINE

RIP RAP COVERAGE BELOW MHW:	AREA (AC)
RIP RAP PLACEMENT OVER UPLAND	0.004
RIP RAP PLACEMENT OVER EXISTING RIP RAP	0.094
RIP RAP PLACEMENT OVER SAND BOTTOM	0.096
RIP RAP REMOVAL OVER SAND BOTTOM	0.178

N

0 150' 300'

SCALE: 1" = 150'

DRAFT

SEAL

DUNCAN GREER P.E. #63508

DATE

PROJECT C2021-045
DRAWN BY AF
SHEET 21 of 24
DATE DEC 2023

FIGURE 21
SHORELINE PLAN
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY #4815

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EXAMPLE TURBIDITY CURTAIN
BREAKWATER (TYP)
115'
R
FIG 23
113'
112'
(B2) "NO ANCHORING" BUOY
N: 518908
E: 1340830
205'
FIELD POSITION STRUCTURE FOUNDATIONS TO MAINTAIN 3' FROM SEAGRASSES AT TIME OF CONSTRUCTION
EXISTING RIPRAP LIMITS
EXISTING SEAGRASS (TYP)
TOTAL WALL LENGTH: 345'
EXISTING RIPRAP LIMITS
RIPRAP SHORE PROTECTION (TYP)
38'
56'
77'
200'
24'
169'
O
FIG 23
P
FIG 23
APPROXIMATE POND HIGH-WATER LINE (TYP)
UPLAND STORMWATER AND IMPERVIOUS FEATURES PERMITTED SEPARATELY
FIXED TIMBER MOORING PIER (SEE FIGURE FIG 15)
130'
161'
46'
23'
(B1) "PADDLE-CRAFT ONLY" BUOY
N: 518717
E: 1340961
(B1) "PADDLE-CRAFT ONLY" BUOY
N: 518672
E: 1340984
FIXED TIMBER BOAT RAMP ACCESS PIER (SEE FIGURE FIG 15)
INSET
MATCHLINE
SAND SHORELINE
SAND SHORELINE
INSET
MATCHLINE
MHW
RIPRAP GROIN REPLACEMENT
MHW
BOAT RAMP RIPRAP TOE PROTECTION (TYP)
RIP RAP SHORE PROTECTION

RIP RAP COVERAGE BELOW MHW:	AREA (AC)
RIP RAP PLACEMENT OVER UPLAND	0.004
RIP RAP PLACEMENT OVER EXISTING RIP RAP	0.094
RIP RAP PLACEMENT OVER SAND BOTTOM	0.096
RIP RAP REMOVAL OVER SAND BOTTOM	0.178

N
0 150' 300'
SCALE: 1" = 150'

DRAFT
SEAL
DUNCAN GREER P.E. #63508
DATE

PROJECT C2021-045
DRAWN BY AF
SHEET 22 of 24
DATE DEC 2023

FIGURE 22
SHORELINE PLAN
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY #4815

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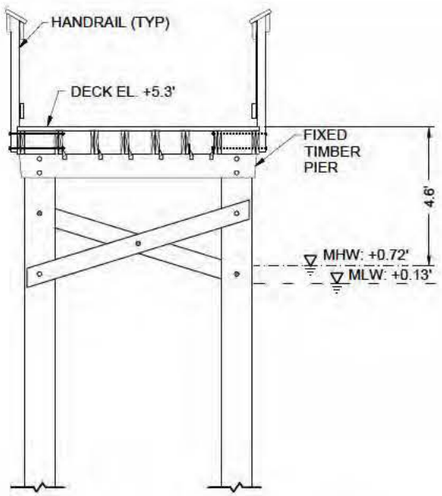
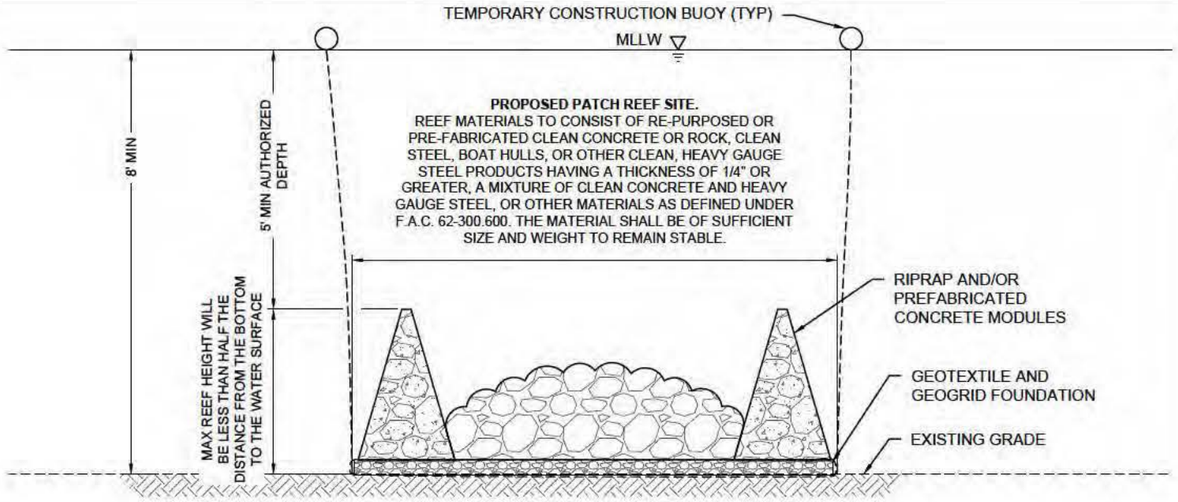
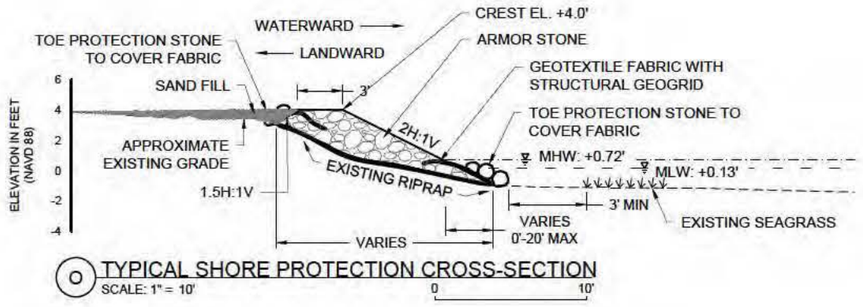


N TYPICAL PIER EXPANSION CROSS-SECTION
SCALE: 1" = 5'

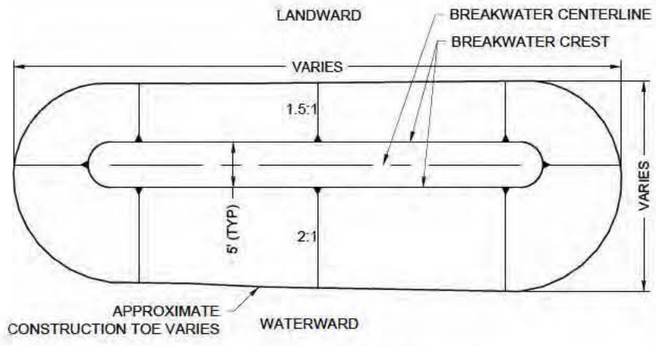


U REEF AREA TYPICAL CROSS-SECTION
NOT TO SCALE

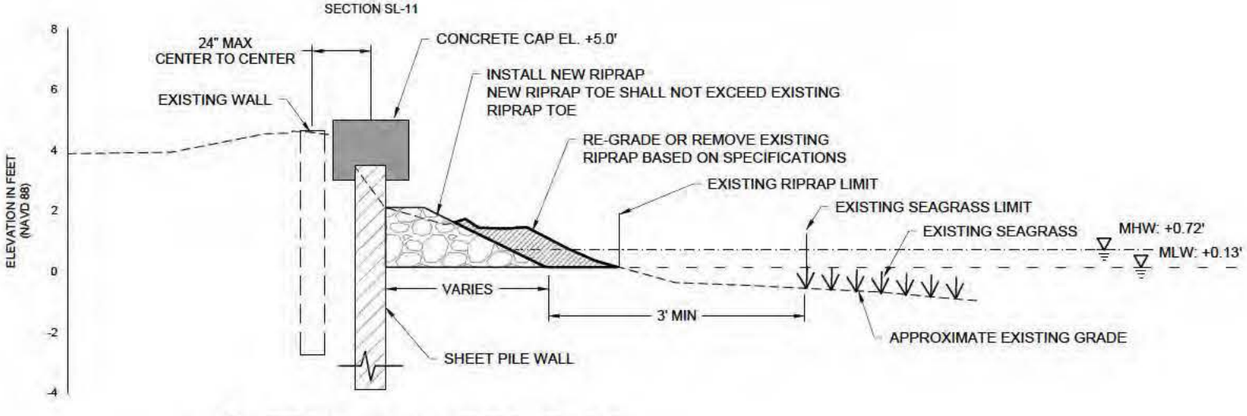
NOTES:
1. MARKER BUOYS WILL BE SECURED ALONG THE PERIMETER OF THE PATCH REEF SITES PRIOR TO MATERIAL PLACEMENT TO DEFINE THE DROP AREA AND TO ENSURE ACCURATE PLACEMENT WITHIN THE APPROVED SITE.
2. QUALITY CONTROL DIVES SHALL BE PERFORMED AS NECESSARY TO ENSURE PROPER MATERIAL PLACEMENT AND RELIEF.



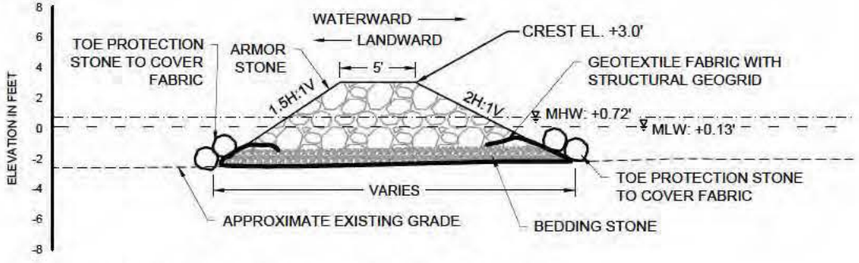
O TYPICAL SHORE PROTECTION CROSS-SECTION
SCALE: 1" = 10'



TYPICAL BREAKWATER PLAN DETAIL
NOT TO SCALE



P TYPICAL SEAWALL CROSS-SECTION
SCALE: 1" = 5'



R TYPICAL BREAKWATER CROSS-SECTION
SCALE: 1" = 10'

FIGURE 23
PIER, SHORELINE, AND BREAKWATER DETAILS
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

PROJECT	C2021-045
DRAWN BY	AF
SHEET	23 of 24
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TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
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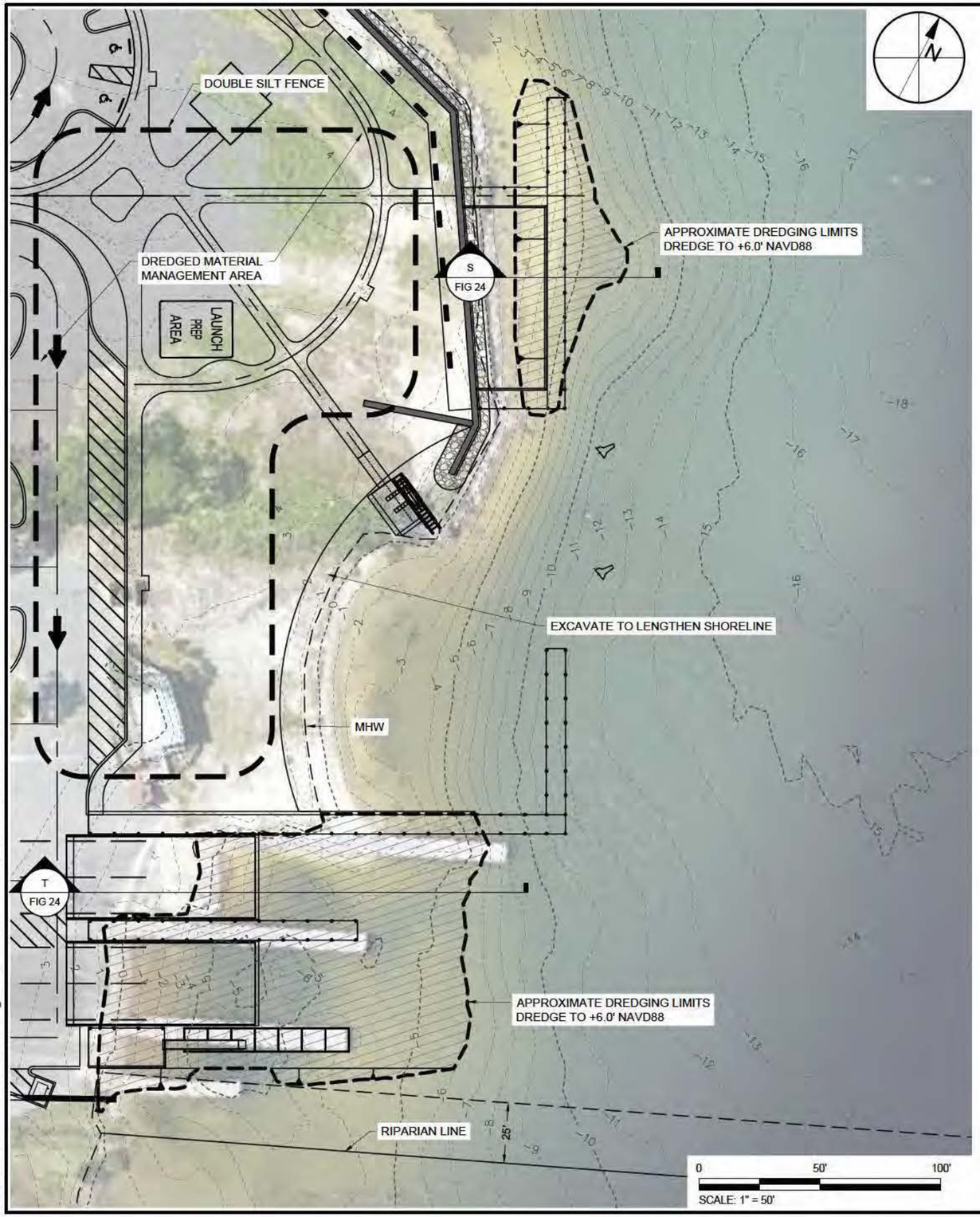
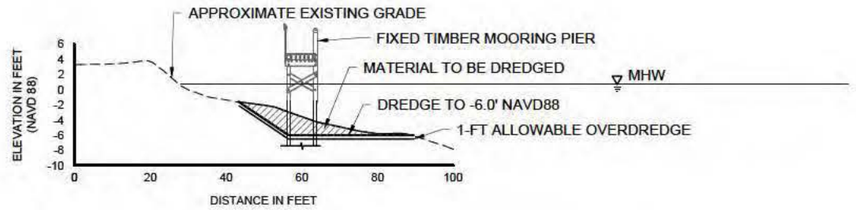
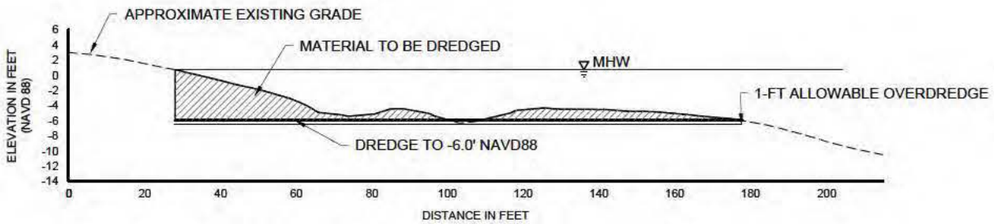




S TYPICAL MOORING PIER DREDGING CROSS-SECTION
SCALE: 1" = 40'
0
40'



T TYPICAL BOAT RAMP DREDGING CROSS-SECTION
SCALE: 1" = 40'
0
40'

PROJECT	C2021-045
DRAWN BY	AF
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FIGURE 24
DREDGING PLAN AND DETAILS
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
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DEPARTMENT OF THE ARMY PERMIT APPLICATION

MAY 2024

JOE'S BAYOU RECREATION AREA IMPROVEMENTS PROJECT
CITY OF DESTIN
OKALOOSA COUNTY, FLORIDA

ATTACHMENT 2

PERMIT DRAWINGS
(UPLAND FEATURES & STORMWATER DESIGN)

DEMOLITION NOTES

1. ALL EXISTING SIGNAGE TO BE REMOVED AND STORED ON SITE, CONTRACTOR TO REPLACE SIGNS AS DIRECTED BY THE CITY OF DESTIN AT THE END OF THE BEACH DRIVE RIGHT OF WAY CONSTRUCTION.
2. REMOVE AND STORE ONSITE THE EXISTING MEMORIAL AND FLAGPOLE, RELOCATE ONSITE AT THE DIRECTION OF THE CITY
3. REMOVAL OF OVERHEAD POWER TO BE COORDINATED WITH FLORIDA POWER & LIGHT (850) 244-4747
4. ALL ASPHALT, GRAVEL, MULCH CHIPS AND OTHER STRUCTURES TO BE DEMOLISHED SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.
5. CONTRACTOR TO VISIT THE SITE PRIOR TO BIDDING TO ACCESS THE CONDITIONS AND PRICE THE WORK ACCORDINGLY.
6. CONTRACTOR TO COORDINATE WITH THE CITY OF DESTIN FOR ANY BEACH DRIVE ROAD CLOSURE REQUIRED, PROPER SIGNAGE SHALL BE INSTALLED AD NOTICE SHALL BE GIVEN TO THE PUBLIC ONE WEEK AHEAD OF CLOSURES.

LEGEND

- EXISTING BUILDING TO BE REMOVED
- EXISTING BOARDWALK TO BE REMOVED
- EXISTING ASPHALT PAVEMENT TO BE REMOVED
- EXISTING GRAVEL TO BE REMOVED
- EXISTING RIPRAP TO BE REMOVED
- EXISTING CONCRETE TO BE REMOVED
- EXISTING TREE TO BE REMOVED

NORTH

0 30 60

SCALE IN FEET

207 LF OF WOOD RETAINING WALL TO BE REMOVED
450 SF OF EXISTING GRAVEL TO BE REMOVED
1,402 SF OF EXISTING GRAVEL TO BE REMOVED
DEMOLISH STEEL MOORING PIN AND CONCRETE BASE
772 SF OF EXISTING RIPRAP TO BE REMOVED
2,525 SF OF EXISTING BOAT RAMP TO BE REMOVED
797 SF OF EXISTING BOARDWALK TO BE REMOVED
543 SF OF EXISTING BOARDWALK TO BE REMOVED
738 SF OF EXISTING RIPRAP TO BE REMOVED
853 SF OF EXISTING RIPRAP TO BE REMOVED
2,088 SF OF EXISTING BOAT RAMP TO BE REMOVED
951 SF OF EXISTING BOARDWALK TO BE REMOVED
226 SF OF EXISTING RIPRAP TO BE REMOVED
825 SF OF EXISTING BOAT RAMP TO BE REMOVED
10,516 SF OF EXISTING RIPRAP TO BE REMOVED
35,068 SF OF EXISTING GRAVEL TO BE REMOVED
5,554 SF OF EXISTING ASPHALT TO BE REMOVED
292 SF OF EXISTING CONCRETE TO BE REMOVED
308 SF OF EXISTING BUILDING TO BE REMOVED
EXISTING GAS SERVICE TO BE REMOVED
786 SF OF EXISTING BOARDWALK TO BE REMOVED
RELOCATE MEMORIAL AND FLAGPOLE
255 LF OF CONCRETE RETAINING WALL TO BE REMOVED
EXISTING CONCRETE BOLLARDS TO BE REMOVED
66 LF OF EXISTING STORM WATER PIPE AND STRUCTURES TO BE REMOVED
340 SF OF EXISTING BOARDWALK TO BE REMOVED
183 SF OF EXISTING CONCRETE TO BE REMOVED
EXISTING UTILITY POLE TO BE REMOVED
41 LF OF EXISTING STORM WATER PIPE AND STRUCTURES TO BE REMOVED
3,145 SF OF EXISTING GRAVEL TO BE REMOVED
307 LF OF EXISTING STORM WATER PIPE TO BE REMOVED
EXISTING LIFT STATION AND SANITARY SEWER TO BE REMOVED
EXISTING UTILITY POLE TO BE REMOVED
56,673 SF OF EXISTING ASPHALT TO BE REMOVED
EXISTING UTILITY POLE TO BE REMOVED
EXISTING UTILITY POLE TO BE REMOVED
39 LF OF EXISTING STORM WATER PIPE AND STRUCTURE TO BE REMOVED
OVERHEAD ELECTRIC TO BE REMOVED
307 LF OF EXISTING STORM WATER PIPE TO BE REMOVED
EXISTING FENCE TO BE REMOVED
2,187 SF OF EXISTING CONCRETE TO BE REMOVED
OVERHEAD ELECTRIC TO BE REMOVED
4,850 SF OF EXISTING CONCRETE TO BE REMOVED
22 LF OF EXISTING CURB AND GUTTER TO BE REMOVED
483 SF OF EXISTING GRAVEL TO BE REMOVED
101 SF OF EXISTING ASPHALT TO BE REMOVED AND REPLACED
32 LF OF EXISTING STORM WATER PIPE AND STRUCTURES TO BE REMOVED
EXISTING SPEED TABLE
EXISTING WPP AND WATER SERVICE TO BE REMOVED
703 SF OF EXISTING CONCRETE TO BE REMOVED
107 LF OF EXISTING STORM WATER PIPE AND STRUCTURE TO BE REMOVED
232 SF OF EXISTING CONCRETE TO BE REMOVED
449 SF OF

David W Hutcheson

halff
3200 BEE CAVES ROAD, SUITE 100
AUSTIN, TEXAS 78746
TEL: (512) 777-4600

60% PLANS

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

PROJECT NO	49199403
DATE	10/4/2023
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

DEMOLITION PLAN SOUTHERN

C1.1

SHEET X OF X

DEMOLITION NOTES

1. ALL EXISTING SIGNAGE TO BE REMOVED AND STORED ON SITE, CONTRACTOR TO REPLACE SIGNS AS DIRECTED BY THE CITY OF DESTIN AT THE END OF THE BEACH DRIVE RIGHT OF WAY CONSTRUCTION.
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5. CONTRACTOR TO VISIT THE SITE PRIOR TO BIDDING TO ACCESS THE CONDITIONS AND PRICE THE WORK ACCORDINGLY.
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LEGEND

- EXISTING BUILDING TO BE REMOVED
- EXISTING BOARDWALK TO BE REMOVED
- EXISTING ASPHALT PAVEMENT TO BE REMOVED
- EXISTING GRAVEL TO BE REMOVED
- EXISTING RIPRAP TO BE REMOVED
- EXISTING CONCRETE TO BE REMOVED
- EXISTING TREE TO BE REMOVED

3,146 SF OF EXISTING GRAVEL TO BE REMOVED

1,778 SF OF EXISTING BOARDWALK TO BE REMOVED

EXISTING UTILITY POLE TO BE REMOVED

OVERHEAD ELECTRIC TO BE REMOVED

EXISTING UTILITY POLE TO BE REMOVED

EXISTING STORM WATER PIPE AND STRUCTURES TO BE REMOVED

EXISTING FENCE TO BE REMOVED

2,187 SF OF EXISTING CONCRETE TO BE REMOVED

4,850 SF OF EXISTING CONCRETE TO BE REMOVED

22 LF OF EXISTING CURB AND GUTTER TO BE REMOVED

483 SF OF EXISTING GRAVEL TO BE REMOVED

191 SF OF EXISTING ASPHALT TO BE REMOVED AND REPLACED

32 LF OF EXISTING STORM WATER PIPE AND STRUCTURES TO BE REMOVED

EXISTING SPEED TABLE TO BE REMOVED AND REPLACED

446 SF OF EXISTING CONCRETE TO BE REMOVED

780 SF OF EXISTING CONCRETE TO BE REMOVED

42 LF OF EXISTING STORM WATER PIPE AND STRUCTURES TO BE REMOVED

REMOVE AND RELOCATE DOG WASTE BIN

1,132 SF OF EXISTING CONCRETE TO BE REMOVED

337 SF OF EXISTING CONCRETE TO BE REMOVED

EXISTING STRUCTURE TO BE REMOVED

16,028 SF OF EXISTING GRAVEL TO BE REMOVED

PARTIAL DEMOLITION SEE BOARDWALK DEMOLITION SHEETS FOR DETAILS

David W Hutcheson

NORTH

0 30 60

SCALE IN FEET

halff

60% PLANS

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

PROJECT NO	49189403
DATE	05/29/2023
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

DEMOLITION PLAN WESTERN

C1.2

SHEET X OF X

DEMOLITION NOTES

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LEGEND

- EXISTING BUILDING TO BE REMOVED
- EXISTING BOARDWALK TO BE REMOVED
- EXISTING ASPHALT PAVEMENT TO BE REMOVED
- EXISTING GRAVEL TO BE REMOVED
- EXISTING RIPRAP TO BE REMOVED
- EXISTING CONCRETE TO BE REMOVED
- EXISTING TREE TO BE REMOVED

NORTH

0 30 60

SCALE IN FEET

183 SF OF EXISTING CONCRETE TO BE REMOVED

3,145 SF OF EXISTING GRAVEL TO BE REMOVED

PARTIAL DEMOLITION SEE BOARDWALK DEMOLITION SHEETS FOR DETAILS

1,775 SF OF EXISTING BOARDWALK TO BE REMOVED

EXISTING UTILITY POLE TO BE REMOVED

EXISTING STORM WATER PIPE AND STRUCTURES TO BE REMOVED

EXISTING FENCE TO BE REMOVED

4,850 SF OF EXISTING CONCRETE TO BE REMOVED

6,508 SF OF EXISTING RIPRAP TO BE REMOVED

760 SF OF EXISTING CONCRETE TO BE REMOVED

43 LF OF EXISTING STORM WATER PIPE AND STRUCTURES TO BE REMOVED

REMOVE AND RELOCATE DOG WASTE BIN

David W Hutcheson

halff

60% PLANS

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

PROJECT NO	49199403
DATE	10/4/2023
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

DEMOLITION PLAN NORTHERN

C1.3

SHEET X OF X

Trees To Remain		
Point Number	Size	Tree Type
4522	18"	PINE
4523	18"	PINE
4525	12"	PINE
4526	22"	PINE
4783	12"	MAG
4784	16"	PINE
4785	14"	PINE
4786	30"	PINE
4787	10"	PINE
4788	16"	PINE
4789	18"	PINE
4790	16"	PINE
4791	18"	PINE
4792	12"	PINE
4793	12"	PINE
4794	22"	PINE
4795	24"	PINE
4796	14"	PINE
4797	20"	PINE
4798	18"	OAK
4799	12"	PINE
4800	20"	PINE
4801	10"	PINE
4802	18"	PINE
4803	16"	PINE
4804	18"	PINE
4805	14"	PINE
4806	18"	PINE
4807	20"	PINE
4808	20"	PINE
4809	14"	PINE
4810	12"	PINE
4811	14"	PINE
4812	22"	PINE
4813	12"	PINE
4814	12"	PINE
4815	12"	PINE
4816	14"	PINE
4817	14"	PINE
4818	12"	PINE
4819	24"	PINE
4820	16"	PINE
4821	16"	PINE
4822	12"	MAG
4823	20"	OAK
4824	20"	OAK
4825	30"	OAK
4826	22"	PINE
4827	15"	BIRCH
4828	22"	PINE
42	14"	PINE
43	12"	PINE
101	14"	PINE
121	16"	PINE
122	11"	PINE
123	15"	PINE
124	15"	PINE
125	10"	PINE
126	11"	PINE
127	13"	PINE
128	15"	PINE
129	22"	PINE
130	15"	PINE
131	11"	PINE
133	15"	PINE
296	11"	PINE
297	18"	PINE
298	15"	PINE
299	15"	PINE
300	18"	PINE
301	13"	PINE
302	17"	PINE
304	22"	PINE
305	10"	PINE
306	25"	PINE
307	17"	PINE
345	14"	PINE
346	16"	PINE
342	22"	PINE
412	14"	PINE
413	18"	PINE
414	14"	PINE
415	16"	PINE
420	12"	PINE
428	18"	PINE
430	12"	PINE
431	12"	PINE
433	12"	PINE

Trees To Remain		
Point Number	Size	Tree Type
434	18"	PINE
446	22"	PINE
447	22"	PINE
448	24"	PINE
450	20"	PINE
451	21"	PINE
452	27"	PINE
454	24"	PINE
455	15"	PINE
456	16"	PINE
457	15"	PINE
459	21"	PINE
460	21"	PINE
461	19"	PINE
462	22"	PINE
463	23"	PINE
466	20"	PINE
467	22"	PINE
468	18"	PINE
471	18"	PINE
472	21"	PINE
473	18"	PINE
474	16"	PINE
475	12"	PINE
476	17"	PINE
477	16"	PINE
478	19"	PINE
479	18"	PINE
480	15"	PINE
481	18"	PINE
482	14"	PINE
483	17"	PINE
485	12"	PINE
486	14"	PINE
487	12"	PINE
488	16"	PINE
489	18"	PINE
528	12"	PINE
574	12"	PINE
525	11"	PINE
526	15"	PINE
527	18"	PINE
528	18"	PINE
529	13"	PINE
531	12"	PINE
532	10"	PINE
533	12"	PINE
547	18"	PINE
548	12"	PINE
549	14"	PINE
550	13"	PINE
551	10"	PINE
553	12"	PINE
554	19"	PINE
555	18"	PINE
556	15"	PINE
557	16"	PINE
558	11"	PINE
559	13"	PINE
560	15"	PINE
561	13"	PINE
562	18"	PINE
564	10"	PINE
565	11"	PINE
566	19"	PINE
567	18"	PINE
795	12"	PINE
819	16"	PEAR
820	16"	PALM
821	18"	PALM
822		
826	14"	OAK
840	10"	OAK
843	12"	CEDAR

Trees To Be Removed		
Point Number	Size	Tree Type
4505	22"	CEDAR
4508	34"	PINE
4510	36"	PINE
4512	34"	PINE
4513	35"	PINE
4514	36"	PINE
4515	34"	PINE
4516	34"	PINE
4517	32"	PINE
4518	34"	PINE
4519	36"	PINE
4524	32"	PINE
4601	32"	PINE
4602	36"	PINE
4603	36"	PINE
4604	22"	PINE
4610	36"	PINE
27	13"	PINE
28	30"	PINE
29	33"	PINE
30	37"	PINE
31	31"	PINE
33	24"	PINE
34	22"	PINE
35	24"	PINE
36	33"	PINE
37	39"	PINE
39	30"	PINE
40	25"	PINE
41	37"	PINE
44	27"	PINE
45	33"	PINE
46	30"	PINE
63	32"	PINE
103	39"	PINE
104	36"	PINE
105	30"	PINE
106	34"	PINE
107	33"	PINE
134	32"	PINE
135	21"	PINE
136	33"	PINE
137	37"	PINE
139	36"	PINE
140	37"	PINE
140	22"	PINE
141	38"	PINE
142	36"	PINE
144	30"	PINE
145	32"	PINE
146	25"	PINE
147	28"	PINE
149	21"	PINE
150	38"	PINE
151	22"	PINE
152	22"	PINE
154	21"	PINE
155	32"	PINE
157	32"	PINE
159	22"	PINE
160	28"	PINE
161	30"	PINE
162	31"	PINE
163	31"	PINE
164	30"	PINE
165	30"	PINE
166	31"	PINE
167	25"	PINE
168	34"	PINE
169	34"	PINE
170	31"	PINE

Trees To Be Removed		
Point Number	Size	Tree Type
171	37"	PINE
175	31"	PINE
176	31"	PINE
176	22"	PINE
177	33"	PINE
178	32"	PINE
179	21"	PINE
180	33"	PINE
181	32"	PINE
182	31"	PINE
185	27"	PINE
186	30"	PINE
187	31"	PINE
189	41"	PINE
188	32"	PINE
189	31"	PINE
191	30"	PINE
194	30"	PINE
197	30"	PINE
198	27"	PINE
199	32"	PINE
200	32"	PINE
201	31"	PINE
202	30"	PINE
203	31"	PINE
204	30"	PINE
205	30"	PINE
206	34"	PINE
208	30"	PINE
209	30"	PINE
211	29"	PINE
212	31"	PINE
213	31"	PINE
214	30"	PINE
216	32"	PINE
221	27"	PINE
218	28"	PINE
219	30"	PINE
220	30"	PINE
221	25"	PINE
222	33"	PINE
223	32"	PINE
224	25"	PINE
225	21"	PINE
226	27"	PINE
227	30"	PINE
228	30"	PINE
229	31"	PINE
230	25"	PINE
231	23"	PINE
232	25"	PINE
235	32"	PINE
234	27"	PINE
235	30"	PINE
236	36"	PINE
237	30"	PINE
240	32"	PINE
242	21"	PINE
243	22"	PINE
244	23"	PINE
245	21"	PINE
246	24"	PINE
248	20"	PINE
249	22"	PINE
251	27"	PINE
253	23"	PINE
254	30"	PINE
255	22"	PINE
256	22"	PINE
257	22"	PINE
258	25"	PINE
259	23"	PINE
260	25"	PINE
263	22"	PINE
265	22"	PINE

Trees To Be Removed		
Point Number	Size	Tree Type
262	12"	PINE
264	17"	PINE
265	17"	PINE
266	13"	PINE
267	16"	PINE
273	14"	PINE
275	14"	PINE
276	12"	PINE
285	12"	PINE
286	13"	PINE
287	12"	PINE
288	12"	PINE
289	12"	PINE
290	15"	PINE
291	16"	PINE
292	19"	PINE
293	14"	PINE
294	12"	PINE
295	20"	PINE
303	16"	PINE
309	16"	PINE
309	12"	PINE
313	17"	PINE
313	11"	PINE
315	14"	PINE
326	18"	PINE
327	14"	PINE
330	13"	PINE
331	16"	PINE
333	14"	PINE
333	16"	PINE
334	16"	PINE
335	18"	PINE
336	15"	PINE
343	11"	PINE
548	15"	PINE
469	18"	PINE
470	20"	PINE
563	17"	PINE
623	12"	OAK
624	10"	OAK
625	13"	OAK
627	11"	OAK
628	18"	OAK
629	14"	OAK
630	10"	OAK
631	12"	OAK
632	12"	OAK
633	11"	OAK
634	20"	OAK
635	18"	OAK
636	10"	OAK
637	10"	OAK
638	16"	OAK
639	13"	OAK
641	22"	OAK
842	15"	CEDAR

David W Hutcheson

halff
3200 GLENWOOD AVE., SUITE 100
RALEIGH, NC 27612
TEL: (919) 2764493

SEAL

60% PLANS

SIGN

PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / ISSUANCES	DATE

PROJECT NO	49189493
DATE	10/29/2025
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

TREE SCHEDULE

C2

SHEET X OF X

GENERAL CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND ENGINEER AND THEIR RESPECTIVE REPRESENTATIVES, AGENTS, AND EMPLOYEES, IN BOTH INDIVIDUAL AND OFFICIAL CAPACITIES AGAINST ALL LAWSUITS, CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEY FEES, CAUSED BY, RESULTING FROM, AND/OR INCIDENTAL TO THE PERFORMANCE OF THE WORK UNDER THIS CONTRACT TO THE FULL EXTENT AS ALLOWED BY THE LAWS OF THE STATE OF FLORIDA AND NOT BEYOND ANY EXTENT WHICH WOULD RENDER THESE PROVISIONS VOID OR UNENFORCEABLE. IN THE EVENT OF ANY SUCH INJURY, DEATH, LOSS, OR DAMAGE, OR CLAIMS THEREOF, THE CONTRACTOR SHALL GIVE PROMPT NOTICE TO THE OWNER AND THE ENGINEER.

DEFINITIONS:

1. OWNER: CITY OF DESTIN / FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
2. ENGINEER: OWNER'S DESIGNATED REPRESENTATIVE FOR CONSTRUCTION OBSERVATION AND ADMINISTRATION.
3. ENGINEER OF RECORD (EOR): ENGINEER WHOSE NAME AND SEAL IS AFFIXED TO THE DRAWINGS AND SPECIFICATIONS OF APPLICABLE WORK.

GENERAL NOTES:

1. ALL WORK PERFORMED SHALL BE GOVERNED BY THE FOLLOWING STANDARDS:
   1.A. FLORIDA BUILDING CODE 2023
   1.B. FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, FY2023-24
   1.C. FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, FY2023-24
2. THE CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE DURING BIDDING AND PRIOR TO INITIATING ANY CONSTRUCTION. PRIOR TO INITIATING WORK, CONTRACTOR SHALL PHOTOGRAPHICALLY DOCUMENT THE CONDITIONS IN AND AROUND THE JOE'S BAYOU RECREATION AREA IMPROVEMENTS WITH COLOR DIGITAL PHOTOGRAPHS. PHOTOS SHALL BE PROVIDED TO THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE AT THE PRECONSTRUCTION MEETING. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING CONDITIONS THAT ARE TO REMAIN, WITH NO PHOTOS TO SUPPORT CONDITIONS AT THE SITE.
3. THE CONTRACTOR SHALL, PRIOR TO ANY CONSTRUCTION ACTIVITY, HOLD A PRE-CONSTRUCTION MEETING WITH ALL PERMITTING AGENCIES INVOLVED, INCLUDING CITY OF DESTIN, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) NORTHWEST DISTRICT, AND NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT.
4. THE CONTRACTOR SHALL LOCATE AND FIELD VERIFY ALL STRUCTURES AND EXISTING UTILITIES (ABOVE GROUND AND BELOW GROUND), WHETHER SHOWN OR NOT ON THE DRAWINGS, BEFORE BEGINNING WORK. CONTRACTOR SHALL ALSO FIELD VERIFY ALL DIMENSIONS AND QUANTITIES.
5. ONCE MOBILIZED, CONTRACTOR MUST WORK ON THE PROJECT CONTINUOUSLY WITHOUT ABSENCES FROM THE SITE UNLESS APPROVED BY THE OWNER.
6. THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING THEMSELVES, THEIR PERSONNEL, AND SUB-CONTRACTORS WITH THE DRAWINGS, SPECIFICATIONS, REGULATORY AUTHORIZATIONS, AND ALL OTHER CONTRACT DOCUMENTS.
7. ALL WORK SHALL CONFORM TO THE CONSTRUCTION DRAWINGS, SPECIFICATIONS, REGULATORY AUTHORIZATIONS, AND ANY OTHER CONTRACT DOCUMENTS. THE CONTRACTOR SHALL POST AT THE PROJECT SITE ALL PERMIT NOTICES AND COMPLY WITH ALL TERMS OF THE PERMITS AS PERTAINING TO THE WORK.
8. CONTRACTOR SHALL CHECK PLANS FOR CONFLICTS AND DISCREPANCIES AND NOTIFY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE OF ANY CONFLICTS BEFORE PERFORMING WORK IN THE AFFECTED AREA AND SHALL ALLOW 48 HOURS FOR THE EOR TO RESPOND.
9. THE CONTRACTOR SHALL CONDUCT CONSTRUCTION AND COORDINATE WITH THE OWNER AND ENGINEER IN SUCH A WAY AS TO ENSURE PUBLIC AND PRIVATE SAFETY IN AND AROUND THE CONSTRUCTION SITE.
10. SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR.
11. ALL SUBSURFACE CONSTRUCTION SHALL COMPLY WITH THE "TRENCH SAFETY ACT", CHAPTER 553.60-553.64 FLORIDA STATUTES. CONTRACTOR SHALL INSURE THAT THE METHOD OF TRENCH PROTECTION AND CONSTRUCTION IS IN COMPLIANCE WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.
12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE FOLLOWING IN THE FIELD: RIGHT OF WAY LINES, BENCHMARKS, CENTER LINES, AND STATIONING AS MAY BE REQUIRED TO CONSTRUCT THE PROJECT.
13. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE WORK FOR INSPECTION BY THE ENGINEER, REGULATORY AGENCIES, AND OWNER.
14. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE ENGINEER AS NECESSARY FOR CONSTRUCTION INSPECTION AND AS-BUILT CERTIFICATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT APPROPRIATE AND APPROVED TIMES DURING THE COURSE OF THE WORK THAT THE CONTRACTOR IS READY FOR INSPECTION. WORK THAT IS ASSEMBLED OR COVERED SO THAT THE ENGINEER CANNOT INSPECT THE WORK PROPERLY SHALL BE DISASSEMBLED, UNCOVERED, OR DESTROYED AS NECESSARY FOR INSPECTION. THE COSTS OF REPAIR OR RESTORATION OF THIS WORK SHALL BE BORNE SOLELY BY THE CONTRACTOR.
15. THE CONTRACTOR SHALL PROVIDE PERSONNEL AND EQUIPMENT FOR ENGINEER TO INSPECT AND INQUIRE ABOUT THE WORK. THIS MAY INCLUDE BUT NOT BE LIMITED TO PROJECT MANAGERS, SUPERINTENDENTS, FOREMEN, LABORERS, LADDERS, HARD HATS, LIFTS, SCAFFOLDING, BOATS, MEASURING DEVICES, SURVEY EQUIPMENT.
16. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SHORING, BRACING, OR OTHER MEANS/METHODS NECESSARY TO STABILIZE ALL STRUCTURES (OR STAGED MATERIAL) UNTIL COMPLETED WITH ALL COMPONENTS INSTALLED, UNLESS SPECIFICALLY STATED ON THE DRAWINGS. THE CONTRACTOR SHALL ASSUME THE EOR HAS ONLY DESIGNED THE STRUCTURE(S) FOR THE FINAL CONSTRUCTED AND ASSEMBLED STATE AS SHOWN ON THE DRAWINGS.
17. ALL PERMANENT MATERIAL SHALL BE NEW. USED, RECONDITIONED, OR REMANUFACTURED MATERIAL SHALL NOT BE ALLOWED UNLESS APPROVED BY THE OWNER IN WRITING.
18. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL AND STATE BUILDING CODES. PRE-CONSTRUCTION PLAN APPROVALS REQUIRED BY LOCAL BUILDING AUTHORITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL FORWARD ALL ENGINEERING RELATED QUESTIONS TO THE ENGINEER FOR CONSIDERATION. INSPECTIONS REQUIRED BY LOCAL BUILDING AUTHORITIES SHALL BE COORDINATED BY THE CONTRACTOR.
19. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES AS NECESSARY TO COMPLY WITH LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS. EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE A MINIMUM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY PERMIT AUTHORITIES. ANY ADDITIONAL EROSION CONTROL MEASURES SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COSTS TO THE OWNER.
20. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL DEBRIS. DEMOLITION DEBRIS SHALL BE DISPOSED OF OFFSITE AT A LICENSED LANDFILL IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.
21. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, WHICH MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT. SEE FDOT SPECIFICATION SECTION [illegible] FOR ADDITIONAL INFORMATION REGARDING PROTECTION OF EXISTING STRUCTURES.
22. CONTRACTOR SHALL PAY THE COST FOR ALL ELECTRICAL SERVICE UP TO FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.
23. THE COST OF ALL INSPECTION FEES SHALL BE BORNE BY THE CONTRACTOR.
24. GEOTECHNICAL ENGINEERING SERVICES INCLUDING SOIL BORINGS HAVE BEEN PROVIDED BY LARRY M. JACOBS AND ASSOCIATES, INC. THE OWNER ASSUMES NO RESPONSIBILITY FOR THE CORRECTNESS, COMPLETENESS OR ACCURACY OF THE GEOTECHNICAL DATA PROVIDED BY LARRY M. JACOBS AND ASSOCIATES, INC.
25. IF PREHISTORIC OR HISTORIC ARTIFACTS, SUCH AS POTTERY OR CERAMICS, PROJECTILE POINTS, DUGOUT CANOES, METAL IMPLEMENTS, HISTORIC BUILDING MATERIALS, OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH NATIVE AMERICAN, EARLY EUROPEAN, OR AMERICAN SETTLEMENTS ARE ENCOUNTERED AT ANY TIME WITHIN THE PROJECT SITE AREA, THE PERMITTED PROJECT SHALL CEASE ALL ACTIVITIES INVOLVING SUBSURFACE DISTURBANCE IN THE VICINITY OF THE DISCOVERY. THE APPLICANT SHALL CONTACT THE FLORIDA DEPARTMENT OF STATE, DIVISION OF HISTORICAL RESOURCES, COMPLIANCE REVIEW SECTION AT (850) 245-6333. PROJECT ACTIVITIES SHALL NOT RESUME WITHOUT VERBAL AND/OR WRITTEN AUTHORIZATION. IN THE EVENT THAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTED ACTIVITIES, ALL WORK SHALL STOP IMMEDIATELY AND THE PROPER AUTHORITIES NOTIFIED IN ACCORDANCE WITH 872.05 FS.
26. THE CONTRACTOR SHALL WARRANTY THE WORK FOR A MINIMUM OF ONE YEAR UNLESS CLEARLY DEFINED OTHERWISE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL DEFECTIVE MATERIALS AND WORK AT NO COSTS TO THE OWNER WITHIN THE STATED WARRANTY PERIOD.
27. PRIOR TO INSTALLATION, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRE-CAST MATERIALS AND MANUFACTURED ITEMS TO THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE FOR APPROVAL. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE.

PERMITS AND PERMIT CONDITIONS

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES AND THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NOT SUPPLIED BY THE OWNER AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS. COSTS OF OBTAINING PERMITS NOT SUPPLIED BY THE OWNER SHALL BE BORNE BY THE CONTRACTOR. THIS SHALL INCLUDE BUT NOT BE LIMITED TO: NPDES PERMIT (OR NOI), CLEARING OR LAND DISTURBANCE PERMITS, TREE IMPACT PERMITS, CITY OR COUNTY BUILDING PERMITS, DRIVEWAY OR ENTRANCE PERMITS, TEMPORARY UTILITIES PERMIT, ETC.
3. UNLESS CLEARLY SPECIFIED OTHERWISE BY THE OWNER IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING ALL NOTICES OF COMMENCEMENTS AND NOTICES OF COMPLETION TO ALL PERMITTING AGENCIES INCLUDING PERMITS SUPPLIED BY THE OWNER.
4. ALL PROPOSED CONSTRUCTION ACTIVITIES SHALL BE IN STRICT COMPLIANCE WITH ALL SPECIAL PERMIT CONDITIONS AS OUTLINED IN THE PERMITS. IF PERMIT CONDITIONS DIFFER FROM THOSE SPECIFICATIONS, PERMIT CONDITIONS SHALL CONTROL.

AS-BUILT SURVEY AND RECORD DRAWINGS

1. RECORD DRAWINGS: A COPY OF THE ORIGINAL SIGNED AND SEALED DRAWINGS KEPT ONSITE AT ALL TIMES WHERE THE CONTRACTOR SHALL KEEP A RECORD OF ALL DEVIATIONS FROM THE ORIGINAL DRAWINGS MARKED IN RED PENCIL OR PEN, WHEN ALL SUBSTANTIAL WORK IS DONE, AND BEFORE NOTICE OF FINAL COMPLETION OF THE WORK. THE CONTRACTOR SHALL SUBMIT THE ORIGINAL RECORD DRAWINGS TO THE ENGINEER AND UP TO THREE (3) FULL SIZE OR REDUCED SIZE COPIES AS REQUESTED BY THE ENGINEER.
2. AS-BUILT SURVEY DRAWINGS: POST-CONSTRUCTION SURVEY DRAWINGS SIGNED AND SEALED BY A FLORIDA LICENSED SURVEYOR AND MAPPER PURSUANT TO CHAPTER 472 FLORIDA STATUTES, MARKED "AS-BUILT" SURVEY, AND REVIEWED BY THE ENGINEER. THE AS-BUILT SURVEY SHALL BE SUBMITTED IN DIGITAL AND 22" X 34" PAPER VERSIONS (UP TO 6 COPIES) TO THE ENGINEER AND OWNER FOR APPROVAL. THE AS-BUILT SURVEY SHALL BE PERFORMED IN THE SAME HORIZONTAL AND VERTICAL COORDINATE SYSTEM THE DRAWINGS ARE IN. DIGITAL DRAWINGS SHALL BE IN AUTOCAD 2018 OR NEWER VERSION AND PDF FORMAT.

SURVEY NOTES

1. ALL ELEVATIONS REFERENCE THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88). ELEVATIONS IN FEET UNLESS NOTED OTHERWISE.
2. ALL COORDINATES REFERENCE STATE PLANE FLORIDA NORTH NAD 83. COORDINATES IN FEET UNLESS NOTED OTHERWISE.
3. EXISTING JOE'S BAYOU SURVEYED OCTOBER 2021 BY SEASIDE ENGINEERING AND SURVEYING, LLC.
4. THE INFORMATION ON THESE DRAWINGS REPRESENTS THE RESULTS OF THE SURVEYS PERFORMED ON THE DATES AS INDICATED. THE INFORMATION FROM THOSE SURVEYS CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THE TIME OF THE SURVEYS.
5. ANY PUBLIC LAND CORNER OR BENCHMARK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE IMMEDIATELY. ANY MONUMENT OTHERWISE DESTROYED BY CONTRACTOR SHALL BE RESET BY A FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AT CONTRACTOR'S EXPENSE.
6. IF ANY GEODETIC MONUMENT WITHIN THE LIMITS OF CONSTRUCTION ARE DISTURBED, CONTRACTOR SHALL NOTIFY:

DEREK [illegible] REGIONAL GEODETIC ADVISOR
NATIONAL GEODETIC SURVEY
JACKSON, MS
[illegible]
[illegible]

7. ALL BENCHMARKS NOTED ON THE PLANS ARE TO BE MAINTAINED THROUGHOUT THE PROJECT. DISTURBED BENCHMARKS SHALL BE RE-ESTABLISHED BY A FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AT THE CONTRACTOR'S EXPENSE.

STAGING AND CONSTRUCTION ACCESS

1. STAGING AND ACCESS AREAS SHOWN ON THE DRAWINGS ARE PROPOSED FOR BIDDING PURPOSES. CONTRACTOR MAY PROPOSE ADDITIONAL STAGING OR ACCESS AREAS BUT WILL BE RESPONSIBLE FOR REVIEWING THE SITES SUITABILITY FOR THE PROPOSED WORK AND, IF ACCEPTABLE, OBTAINING USE AGREEMENTS WITH THE UPLAND PROPERTY OWNER FOR THE PROPOSED WORK. CONTRACTOR MAY PROPOSE ADDITIONAL OR ALTERNATIVE STAGING AREAS, LOADING AREAS, TEMPORARY FACILITIES, OR OTHER WORK LOCATIONS IN THEIR CONSTRUCTION WORK PLAN FOR ENGINEER AND OWNER REVIEW AND ACCEPTANCE.
2. THE CONTRACTOR SHALL PLACE BARRICADES AND SIGNS INDICATING THE AREAS AND LIMITS OF CONSTRUCTION.
3. RIGHT OF WAY MAY NOT BE USED FOR STORAGE OF NEW OR REMOVED MATERIAL. ANY SITE WITHIN THE PROJECT LIMITS INTENDED FOR MATERIAL STORAGE MUST BE PRE-APPROVED BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE. ANY SOIL, PIPE, UTILITIES, CONCRETE, ASPHALT, VEGETATION OR SIGNAGE MATERIALS THAT ARE REMOVED AND ARE NOT INTENDED FOR REUSE SHALL BE REMOVED FROM THE PROJECT EACH WORKDAY AND CANNOT REMAIN ONSITE. NEW OR EXISTING MATERIALS MUST BE REMOVED FROM THE RIGHT OF WAY AT THE END OF EACH WORKDAY.
4. THE CONTRACTOR SHALL COORDINATE WORK HOURS WITH OWNER AND ENGINEER TO MEET PROJECT SCHEDULE REQUIREMENTS. WORK HOURS SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS AND [illegible] AGREEMENT.
5. CONTRACTOR WILL NOT BE ALLOWED TO TRAVERSE, UTILIZE, OR IMPACT ADJACENT PROPERTIES WITHOUT SPECIFIC AUTHORIZATION FROM THE PROPERTY OWNER AND A CONSTRUCTION WORK PLAN ACCEPTED BY THE OWNER AND ENGINEER.
6. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH ALL OTHER CONSTRUCTION ADJACENT TO THE PROJECT. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE PRIOR TO PROCEEDING WITH CONSTRUCTION.
7. IN ORDER TO LIMIT DISTURBANCE TO THE SURROUNDING NEIGHBORHOODS, CONTRACTOR SHALL BE LIMITED TO CONSTRUCTION BETWEEN THE HOURS OF 7:00 A.M. TO 7:00 P.M., MONDAY THROUGH FRIDAY AND FROM 8:00 A.M. TO 7:00 P.M. ON SATURDAY. CONSTRUCTION OUTSIDE OF THESE HOURS MUST HAVE PRIOR WRITTEN CONSENT FROM THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.
8. THE CONTRACTOR'S PROPOSED MATERIAL LOADING, HANDLING, HAULING, AND PLACEMENT OPERATIONS SHALL BE PERFORMED IN SUCH A MANNER AS TO MINIMIZE THE WORK AREA FOOTPRINT, REDUCE DAMAGE TO UPLAND AND NEARSHORE PROPERTY, REDUCE THE POTENTIAL DETERIORATION OF EXISTING ACCESSES AND HAUL ROUTES, AND AVOID IMPACTS TO VEGETATION TO THE GREATEST EXTENT PRACTICAL.
9. THE CONTRACTOR PROPOSED STAGING AREAS AND ACCESS CORRIDORS SHALL BE SUBJECT TO REVIEW BY THE OWNER AND ENGINEER. ACCEPTED AREAS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND BE RESTORED TO THE ORIGINAL CONDITION FOLLOWING CONSTRUCTION. THE CONTRACTOR SHALL CLEARLY IDENTIFY THE ACCEPTED STAGING AREA WITH FLAGS, STAKES, OR SIMILAR, AND MAY NOT OPERATE EQUIPMENT OR TRANSVERSE AREAS OUTSIDE THE MARKED AREA WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
10. THE CONTRACTOR IS REQUIRED TO RESTORE THE ACCEPTED STAGING AND CORRIDOR AREAS TO THE ORIGINAL SITE CONDITION. RESTORATION ACTIVITIES MAY INCLUDE, BUT SHALL NOT BE LIMITED TO, REPLACING OR REPAIRING DAMAGED INFRASTRUCTURE (INCLUDING FENCING, PAVEMENT, ETC.), PLACING AND GRADING CLEAN SAND FILL IN RUTTED OR DISTURBED AREAS, AND VEGETATION RESTORATION.

SITEWORK NOTES

1. CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE PROJECT NECESSARY FOR CONSTRUCTION.
2. EXCESS SOIL THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE IF OF SUITABLE MATERIAL. EXCESS MATERIAL IS TO BE EITHER STOCKPILED ON THE SITE OR DISPOSED OF AS DIRECTED BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE. STOCKPILED MATERIAL SHALL BE PROTECTED WITH SILT FENCING (REFER TO STORMWATER POLLUTION PROTECTION PLAN DETAILS). ALL EXCESS SEDIMENT TO BE REMOVED MEETING THE OKALOOSA COUNTY "WHITE SANDS" DEFINITION IS TO BE PLACED AS NOTED ON THE PLANS.
3. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING EXCESS EARTHWORK FROM THE PROJECT.
4. BURNING OF MATERIALS AND/OR DEBRIS AS A MEANS OF DISPOSAL IS PROHIBITED WITHIN THE PROJECT LIMITS.
5. FOR PAVING, NON-SELECT SOILS, WHEN ENCOUNTERED, SHALL BE REMOVED FROM CONSTRUCTION AREAS AND BACKFILLED WITH SELECT MATERIALS IN ACCORDANCE WITH FDOT INDICES 500 AND 501.
6. ALL ROCKS OR STONES LARGER THAN 6 IN. IN DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN 1 FT. OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN 2 IN. IN DIAMETER IN ACCORDANCE WITH FDOT INDICES 500 AND 505.
7. THE CONTRACTOR SHALL SURVEY AND STAKE THE CLEARING LIMITS AS INDICATED BY THE PLANS AND RECEIVE APPROVAL FROM THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE PRIOR TO COMMENCING WITH THE CLEARING AND GRUBBING OPERATION. (REFER TO TREE PROTECTION DETAILS AND NOTES.)
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL AND STATE REGULATIONS CONCERNING SITE SAFETY AND HANDLING AND DISPOSAL OF CONTAMINATED SOILS.
9. CLEARING AND GRUBBING INCLUDES THE REMOVAL OF ALL INCIDENTAL ITEMS INCLUDING BUT NOT LIMITED TO STRUCTURES, CONCRETE, ASPHALT, GRAVEL, FENCING AND ANY OTHER IMPROVEMENTS TO BE REMOVED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF SUCH ITEMS OFF-SITE.
10. EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATIONS IS TO BE UTILIZED ONSITE ACCORDING TO THE CITY OF DESTIN'S LAND DEVELOPMENT CODE.

PAVING AND GRADING NOTES

1. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE. DELETERIOUS MATERIAL IS TO BE REMOVED FROM THE SITE. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS AND IN ACCORDANCE WITH THE SOILS REPORT. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
3. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
5. CONTRACTOR TO PROVIDE A ½-IN. BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER CONCRETE ITEMS (BLDG, DRIVES, CURBING, SIDEWALKS, ETC.).
6. ALL UNDERGROUND UTILITIES MUST BE IN PLACE, TESTED OR INSPECTED, AND APPROVED PRIOR TO SURFACE CONSTRUCTION.
7. EXISTING SIGNAGE TO REMAIN THAT WILL BE AFFECTED BY CONSTRUCTION SHALL BE RELOCATED DURING CONSTRUCTION. SEE DEMOLITION PLAN.
8. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH AN INDEPENDENT TESTING COMPANY TO VERIFY COMPACTION. UPON COMPLETION OF THE WORK, CONTRACTOR SHALL HAVE ALL TEST RESULTS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA PURSUANT TO CHAPTER 471, FLORIDA STATUTES AND SUBMITTED TO THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.
9. ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND SHALL BE PLACED 14 DAYS AFTER PLACEMENT OF FINAL ASPHALT SURFACE.
10. THE CONTRACTOR SHALL COMPLETE ALL WORK INCLUDING RESTORATION, EXCEPT THE FINAL ASPHALT COURSE ON ONE SIDE OF THE ROADWAY PRIOR TO BEGINNING WORK ON THE IMPROVEMENTS TO THE OTHER SIDE OF THE ROADWAY. THE FINAL ASPHALT COURSE SHALL BE PLACED ON BOTH LANES AT THE SAME TIME.
11. ALL SIDEWALKS TO BE A MINIMUM 4,000 PSI CONCRETE AND 4 INCH THICK EXCEPT AT DRIVEWAY CROSSINGS WHERE THEY SHALL BE 6 INCH THICK REINFORCED WITH 6 IN X 6 IN W1.4XW1.4 WELDED WIRE MESH.

MAINTENANCE OF TRAFFIC GENERAL NOTES:

1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE FDOT DESIGN STANDARDS INDEX 102 SERIES.
2. TEMPORARY TRAVEL LANES SHALL NOT BE LESS THAN 10 FT. IN WIDTH ON ROADWAYS OPEN TO TRAFFIC AND ADJACENT SIDE ROADS. TRAVEL LANES ON ROADWAYS OPEN TO TRAFFIC SHALL BE PROPERLY DELINEATED AT ALL TIMES DURING CONSTRUCTION.
3. MAINTENANCE OF TRAFFIC OPERATIONS ON INTERSECTING THOROUGHFARES AND ADJACENT STREETS SHALL BE COORDINATED WITH THE CITY OF DESTIN.
4. IT IS THE RESPONSIBILITY OF CONTRACTOR TO MAINTAIN CLEAR ZONE REQUIREMENTS FOR EQUIPMENT AND MATERIALS STORAGE AND WORK ZONE PROTECTION AS SPECIFIED IN FDOT STANDARD INDEX 600.
5. CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE WHEN HISTORICAL DRAINAGE PATTERNS ARE IMPEDED IN AN ACTIVE WORK ZONE. ANY ADDITIONAL COST ASSOCIATED WITH DRAINAGE INSTALLATION AND REMOVAL OF TEMPORARY STRUCTURES, OR REPAIR OF EXISTING PIPES, SHALL BE INCIDENTAL TO THE CONTRACT.
6. ACCESS TO EXISTING DRIVEWAYS SHALL BE PROVIDED AT ALL TIMES. CONTRACTOR SHALL SUBMIT AN ACCESS MAINTENANCE PLAN FOR REVIEW AND RELEASE FOR CONSTRUCTION BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE. RESIDENTS SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF ANY DRIVEWAY INTERRUPTIONS.
7. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL OFFICER DURING ALL INTERMITTENT LANE CLOSURE OPERATIONS, NIGHTTIME OPERATIONS, AND DURING IMPLEMENTATION OF CHANGES IN THE TRAFFIC PATTERN (REROUTING OR SHIFTING TRAFFIC).
8. UNLESS OTHERWISE NOTED IN THE PLANS THE EXISTING SPEED LIMIT ON ALL ROADWAYS SHALL BE MAINTAINED DURING CONSTRUCTION.
9. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN. THE PLAN MUST BE SIGNED AND SEALED BY A FLORIDA PROFESSIONAL ENGINEER LICENSED UNDER CHAPTER 471, FLORIDA STATUTES. PRIOR TO IMPLEMENTATION, PLAN MUST BE SUBMITTED TO AND APPROVED BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.
10. THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN CITY OF DESTIN RIGHT OF WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION AND REPAIR. CONTRACTOR SHALL OBTAIN ALL PERMITS AND APPROVALS PRIOR TO INITIATING WORK WITHIN THE RIGHT OF WAY.
11. THE CONTRACTOR MUST PROVIDE A QUALIFIED MAINTENANCE OF TRAFFIC SUPERVISOR TO BE ON SITE WHEN WORK IS TAKING PLACE AND SHALL BE ON CALL FOR EMERGENCIES WHEN THE CONTRACTOR IS NOT AVAILABLE. THIS SUPERVISOR IS RESPONSIBLE FOR OVERSIGHT OF THE TRAFFIC CONTROL PLAN AND WILL BE REQUIRED TO SUBMIT WRITTEN INSPECTION REPORTING VERIFYING COMPLIANCE WITH THE TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL PROVIDE THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE A 24-HOUR ON-CALL TELEPHONE NUMBER FOR THE SUPERVISOR.
12. THE CONTRACTOR SHALL ADD MAINTENANCE OF TRAFFIC DEVICES AS NEEDED TO PROVIDE ACCESS TO THE INTERIOR OF THE SITE. DEVICES SHALL BE PLACED SUCH THAT THE SAFETY OF THE PUBLIC AND CONSTRUCTION PERSONNEL ARE PROTECTED AT ALL TIMES.
13. THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE RESERVES THE RIGHT TO REQUIRE ADDITIONAL DEVICES AND/OR CHANGES TO THE TRAFFIC CONTROL PLAN BASED UPON CHANGING TRAFFIC CONDITIONS OR TRAFFIC SAFETY ISSUES.
14. CLOSURE OF THE CITY OF DESTIN ROADS AND PARKING AREAS REQUIRE THE CONTRACTOR TO SUBMIT A ROAD CLOSURE REQUEST PACKAGE TO THE CITY OF DESTIN A MINIMUM OF TWO (2) WEEKS PRIOR TO CLOSURE. THE CLOSURE REQUEST SHALL INCLUDE THE MAINTENANCE OF TRAFFIC PLAN, DETOUR PLAN AND A BRIEF DESCRIPTION OF CONSTRUCTION. PLANS ARE TO BE APPROVED BY A PROFESSIONAL ENGINEER OR A FDOT CERTIFIED ADVANCED MOT PRACTITIONER.
15. TEMPORARY LANE CLOSURES ON THOSE ROADWAYS OPEN TO TRAFFIC WILL NOT BE ALLOWED BETWEEN THE HOURS OF 6:30 AM AND 9:30 AM AND BETWEEN THE HOURS OF 4:30 PM AND 6:30 PM. THE CONTRACTOR SHALL REQUEST FROM THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE A STREET, LANE OR SIDEWALK CLOSURE 24 HOURS IN ADVANCE OF SUCH CLOSURE.
16. STREETS USED AS TEMPORARY DETOUR ROUTES AND HAUL ROUTES WILL BE MAINTAINED IN GOOD CONDITION AND BE KEPT FREE OF SILT AND DEBRIS BY THE CONTRACTOR AS DIRECTED BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.

TREE PROTECTION NOTES:

1. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN AS INDICATED ON THE PLANS SHALL BE PROTECTED IN ACCORDANCE WITH THE DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREE SHOWN TO REMAIN SHALL BE REMOVED WITHOUT APPROVAL FROM THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.
2. PROTECTIVE BARRICADES SHALL BE PLACED AROUND ALL PROTECTED TREES PRIOR TO SITE CLEARING AND SHALL REMAIN IN PLACE UNTIL LAND ALTERATION, SITE CLEARING AND CONSTRUCTION ACTIVITIES ARE COMPLETE. THE BARRICADES SHALL BE CONSTRUCTED TO PREVENT THE ENCROACHMENT OF EQUIPMENT OR VEHICLES, THE REMOVAL OF EXISTING GROUNDCOVER, THE DISTURBANCE OR COMPACTION OF SOIL, OR THE SCARRING OF ROOTS WITHIN THE CRITICAL PROTECTION ZONE (CPZ). THERE SHALL BE NO STORAGE OF MATERIALS OR EQUIPMENT OF ANY KIND WITHIN THIS ZONE.
3. REQUIRED TREE BARRICADES MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. ENCROACHMENT INTO OR FAILURE TO MAINTAIN TREE BARRICADES WILL RESULT IN ENFORCEMENT ACTION.
4. A MINIMUM DISTANCE OF TEN (10) FEET SHALL BE MAINTAINED FROM ALL PROTECTED TREES WHEN INSTALLING UNDERGROUND UTILITIES. IF THIS RESULTS IN UNREASONABLE HARDSHIP, A BORE AUGER SHALL BE USED TO TUNNEL UNDER THE ROOT SYSTEMS.
5. THE CONTRACTOR IS REQUIRED TO PREVENT DAMAGE TO TREES WHICH ARE TO REMAIN. DAMAGE TO PROTECTED TREES WILL NOT BE TOLERATED. THE CONTRACTOR SHALL BE LIABLE FOR ALL DAMAGE TO TREES THAT ARE DESIGNATED TO BE SAVED DURING CONSTRUCTION.
6. SHOULD TRIMMING OF PROTECTED TREES BE NECESSARY, THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A CERTIFIED ARBORIST. ALL TRIMMING OF PROTECTED TREES SHALL BE DONE BY A QUALIFIED, LICENSED ARBORIST AND SHALL BE PRUNED IN ACCORDANCE WITH THE NATIONAL ARBORIST ASSOCIATION (NAA) PRUNING STANDARDS.

OPERATIONS AND MAINTENANCE OF STORMWATER SYSTEM:

1. THE STORMWATER MANAGEMENT SYSTEM WITHIN THE PROJECT SITE WILL BE OWNED, OPERATED AND MAINTAINED BY THE CITY OF DESTIN.
2. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN AS-BUILT SURVEY OF THE STORMWATER SYSTEM.
3. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STORMWATER SYSTEM UNTIL ACCEPTED BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.

GENERAL UTILITY NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO UTILITIES TO REMAIN SHALL BE PAID FOR BY CONTRACTOR AT CONTRACTOR'S EXPENSE.
2. THE EXISTING FACILITIES AND UTILITIES SHOWN ON THE PLANS WERE LOCATED FROM THE OWNER'S AND OTHER RECORDS. GUARANTY IS NOT MADE THAT ALL EXISTING FACILITIES OR UTILITIES ARE SHOWN OR THAT THOSE SHOWN ARE ENTIRELY ACCURATE. THE CONTRACTOR SHALL ASSURE HIMSELF OF THE PRESENCE AND LOCATION OF ALL UTILITIES, STRUCTURES, OR OTHER FACILITIES IN THE WORK AREA PRIOR TO PERFORMING THE WORK. THE OWNER AND THE ENGINEER WILL ASSUME NO LIABILITY FOR DAMAGES SUSTAINED OR COSTS INCURRED BECAUSE OF THE CONTRACTOR'S OPERATIONS IN THE VICINITY OF THE EXISTING UTILITIES, STRUCTURES, OR FACILITIES. THE GENERAL NOTES ON THE PLANS ALSO INDICATE THE REQUIREMENTS OF THE CONTRACTOR AS REGARDS EXISTING FACILITIES, STRUCTURES, AND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DEVIATION BETWEEN EXISTING CONDITIONS AND THE DRAWINGS, AND INDICATE THE LOCATION OF THE EXISTING UTILITIES, STRUCTURES, AND FACILITIES ON THE RECORD DRAWINGS.
3. ALL WATER AND SEWER CONSTRUCTION SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FS.
4. CONTRACTOR SHALL NOTIFY THE UTILITY OWNERS LISTED BELOW THROUGH 811 A MINIMUM OF TWO (2) FULL BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.

UAO	CONTACT NAME	CONTACT NUMBER
CENTURY LINK	WILLIS OLSON	(850) 300-7030, (850) 585-7280
COX COMMUNICATIONS, INC.	PRENTIS MILEY	(850) 502-3241
DESTIN WATER USERS, INC.	STEVEN SCHMITT	(850) 337-3617, (850) 285-3181
FLORIDA POWER & LIGHT - DESTIN	CHAD SMALLS	(850) 244-4747, (850) 723-7857
OKALOOSA GAS DISTRICT	KYLE COX	(850) 729-4881, (850) 879-5436
LIVEOAK FIBER, LLC	CASEY WILLIAMS	(270) 819-0882

5. CONTRACTOR SHALL DESIGNATE AN ONSITE UTILITY COORDINATOR WHO WILL BE RESPONSIBLE FOR COORDINATING ALL UTILITY ISSUES WITH THE APPLICABLE AGENCIES.
6. CONTRACTOR SHALL AVOID WATER AND SEWER SERVICE INTERRUPTIONS AND MAINTAIN EXISTING DEMAND AT ALL TIMES.
7. ALL WATER SERVICES ARE TO BE TIED INTO THE EXISTING [illegible]-INCH PL WATER MAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED CUSTOMERS OF THE UTILITY A MINIMUM OF 72 HOURS IN ADVANCE OF ANY INTERRUPTION OF SERVICE.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR HOLDING AN ONSITE PRE-CONSTRUCTION UTILITY MEETING WITH ALL APPLICABLE UTILITY PROVIDERS. THE MEETING SHALL BE CONDUCTED BY CONTRACTOR'S DESIGNATED UTILITY COORDINATOR. CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING MINUTES OF THE MEETING AND PROVIDE A COPY OF SAID MINUTES TO ALL ATTENDEES WITHIN TWO (2) WEEKS AFTER THE MEETING.
9. CONTRACTOR SHALL COORDINATE THE LOCATION AND RELOCATION OF ALL APPLICABLE UTILITIES WITH THEIR AND CORRESPONDING UTILITY AUTHORITIES BEFORE CONSTRUCTION EFFORTS BEGIN.
10. WHERE UTILITIES ARE TO BE ABANDONED IN PLACE, ALL VOIDS ARE TO BE FILLED WITH EXCAVATABLE FLOWABLE FILL AND THE HORIZONTAL AND VERTICAL POSITIONS OF THE UTILITY SHALL BE LOCATED BY SURVEYOR LICENSED IN THE STATE OF FLORIDA UNDER CHAPTER 472, FLORIDA STATUTES. THE UTILITY COMPOSITION AND IDENTIFIED USE ARE TO BE MAPPED WITH THE ABOVE INFORMATION AND FOUR (4) COPIES OF THE MAP SHALL BE PROVIDED TO THE OWNER ALONG WITH CAD AND PDF FILES.
11. REFER TO THE UTILITY ADJUSTMENT PLANS FOR EXISTING ABOVE GROUND AND UNDERGROUND UTILITY RELOCATIONS / DEMOLITION. OTHER UNKNOWN UTILITIES MAY NEED TO BE ADJUSTED OR REMOVED.
12. CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE IF THEY ENCOUNTER ANY UNIDENTIFIED UTILITY OR STRUCTURE DURING CONSTRUCTION THAT IMPACTS THE PROJECT IMPLEMENTATION.

GENERAL WATER AND SANITARY SEWER UTILITY NOTES

1. UNLESS OTHERWISE NOTED, ALL MATERIALS SALVAGED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE OWNER. IF THE SALVAGED MATERIALS HAVE NO VALUE TO THE OWNER, THE CONTRACTOR SHALL DISPOSE OF THE MATERIALS IN A MANNER SATISFACTORY TO THE OWNER, AT NO ADDITIONAL COST.
2. PLACEMENT OF ON-SITE WATER AND SANITARY SEWER FACILITIES ARE SUBJECT TO THE REVIEW AND APPROVAL OF DESTIN WATER USERS, INC.
3. CONFLICTS BETWEEN WATER AND STORM OR SANITARY SEWER ARE TO BE RESOLVED BY ADJUSTING THE WATER LINES AS NECESSARY.

WATER NOTES

1. ALL FITTINGS INCLUDING BUT NOT LIMITED TO, TEES, CROSSES, CAPS, AND BENDS SHALL BE PROPERLY RESTRAINED.

SANITARY SEWER NOTES

1. CONTRACTOR SHALL MAINTAIN SANITARY SEWER SERVICE THROUGH DESTIN WATER USERS, INC. SANITARY SEWER MAINS AT ALL TIMES THROUGHOUT CONSTRUCTION. MEANS AND METHODS OF SERVICE MAINTENANCE SHALL BE LEFT TO CONTRACTOR SUBJECT TO APPROVAL BY DESTIN WATER USERS, INC.

ACCESSIBILITY

1. CONTRACTOR SHALL BE HELD ACCOUNTABLE DURING CONSTRUCTION FOR ALL PROJECT IMPROVEMENTS. COMPLIANCE WITH FLORIDA STATUTES 553.504 FLORIDA STATUTES (FS) AND THE 2020 FLORIDA BUILDING CODE - ACCESSIBILITY (FBC-A) IS MANDATORY. IF INCORRECT AT THE FINAL INSPECTION, CONTRACTOR SHALL BE REQUIRED TO MODIFY CONSTRUCTION TO COMPLY WITH FLORIDA STATUTES AND FBC-A. THE FOLLOWING ITEMS TAKE PRECEDENCE AND SUPERSEDE OTHER DETAILS ON PLANS:
   A. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON AN ACCESSIBLE ROUTE NO LESS THAN 4 FEET (FT.) WIDE SO THAT USERS WILL NOT BE COMPELLED TO WALK OR WHEEL BEHIND PARKED VEHICLES. §208.3 AND §502.3, FBC-A AND §553.5041 FS.
   B. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SERVING A PARTICULAR BUILDING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE FROM THE PARKING TO AN ACCESSIBLE ENTRANCE. §208.3.1 FBC-A AND §553.5041 FS.
   C. ACCESSIBLE PARKING SPACES SHALL BE 12 FT. WIDE OUTLINED WITH BLUE PAINT. §502.2 FBC-A.
   D. ACCESS AISLES REQUIRED ADJACENT TO PARKING SPACES SHALL BE 5 FT. WIDE WITH DIAGONAL STRIPING. §502.2 AND §502.3 FBC-A.
   E. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL (NOT TO EXCEED 1:48) ON A STABLE, FIRM AND SLIP RESISTANT SURFACE. §302.1 AND §502.4 FBC-A.
   F. ACCESSIBLE PARKING SIGNS SHALL BE FDOT APPROVED AND SHALL READ "PARKING BY DISABLED PERMIT ONLY" AND SHALL INDICATE A $250 FINE FOR ILLEGAL USE. INSTALL SIGNS A MINIMUM 60 IN. (INCHES) FROM THE GROUND TO THE BOTTOM OF THE SIGNS. RE §502.6.1 AND §553.5041 FS.
   G. CURB RAMP SLOPES SHALL NOT EXCEED 1:12 SLOPE. THE COUNTER SLOPE OF ADJACENT ROAD SURFACES & GUTTERS SHALL NOT EXCEED 1:20 SLOPE. CURB RAMP SIDE SLOPES SHALL NOT EXCEED 1:10 SLOPE. CURB RAMPS SHALL NOT ENCROACH PARKING SPACES OR ACCESS AISLES. RE §406 FBC-A.
   H. ALL RAMPS WITH A RISE GREATER THAN 6 IN. SHALL PROVIDE EDGE PROTECTION COMPLYING WITH §405.9.1 FBC-A OR §405.9.2 FBC-A. RAMPS SHALL HAVE 60 IN. MIN. LEVEL LANDINGS AT THE TOP & BOTTOM. RE §405.7 FBC-A.
   I. ALL RAMPS WITH A RISE GREATER THAN 6 IN. SHALL HAVE HANDRAILS ON BOTH SIDES WITH 12 IN. HORIZONTAL EXTENSIONS AT THE TOP & BOTTOM OF THE RAMP. RE §505.10.1 FLORIDA BUILDING CODE (FBC-A).
   J. ACCESSIBLE ROUTE TO "MAIN ENTRY" FROM AN ACCESSIBLE PARKING SPACE SHALL NOT EXCEED 1:20 SLOPE (UNLESS RAMPS AND HANDRAILS ARE PROVIDED) WITH CROSS SLOPE NOT IN EXCESS OF 1:48. RE §403 FBC-A.
   K. ACCESSIBLE PARKING SPACES AND THE ROUTES SERVING THEM SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 98 IN. PER §502.5 FBC-A.

"EXCEPTION: AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED BETWEEN ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES IF THE ONLY MEANS OF ACCESS BETWEEN THEM IS A VEHICULAR WAY NOT PROVIDING PEDESTRIAN ACCESS. RE §206.2.1 FBC-A.

David W Hutcheson

halff

60% PLANS

PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	DATE	DESCRIPTION

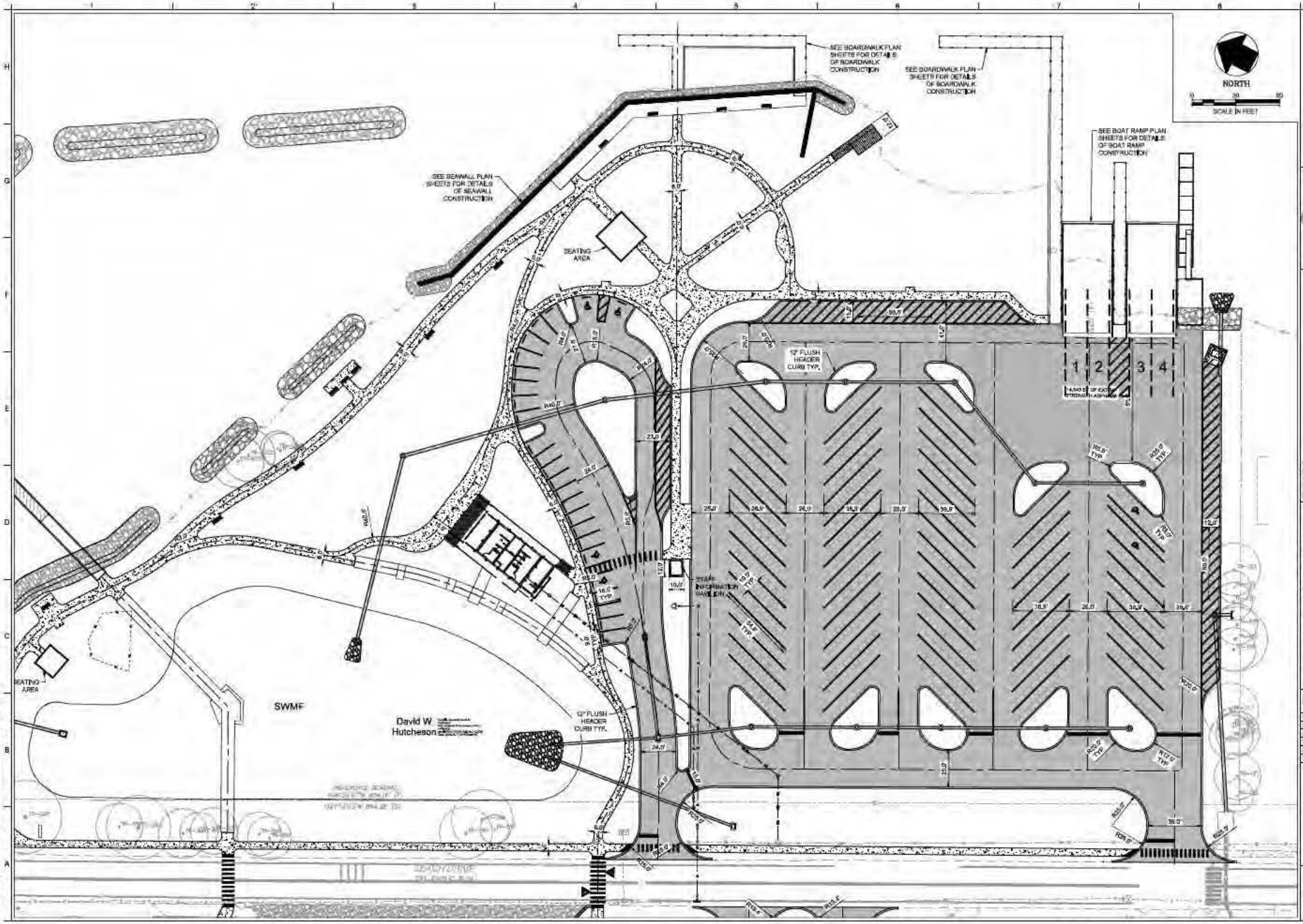
PROJECT NO.	[illegible]
DATE	[illegible]
DESIGNED	[illegible]
DRAWN	SMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

GENERAL NOTES

C3

SHEET X OF X



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60% PLANS

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

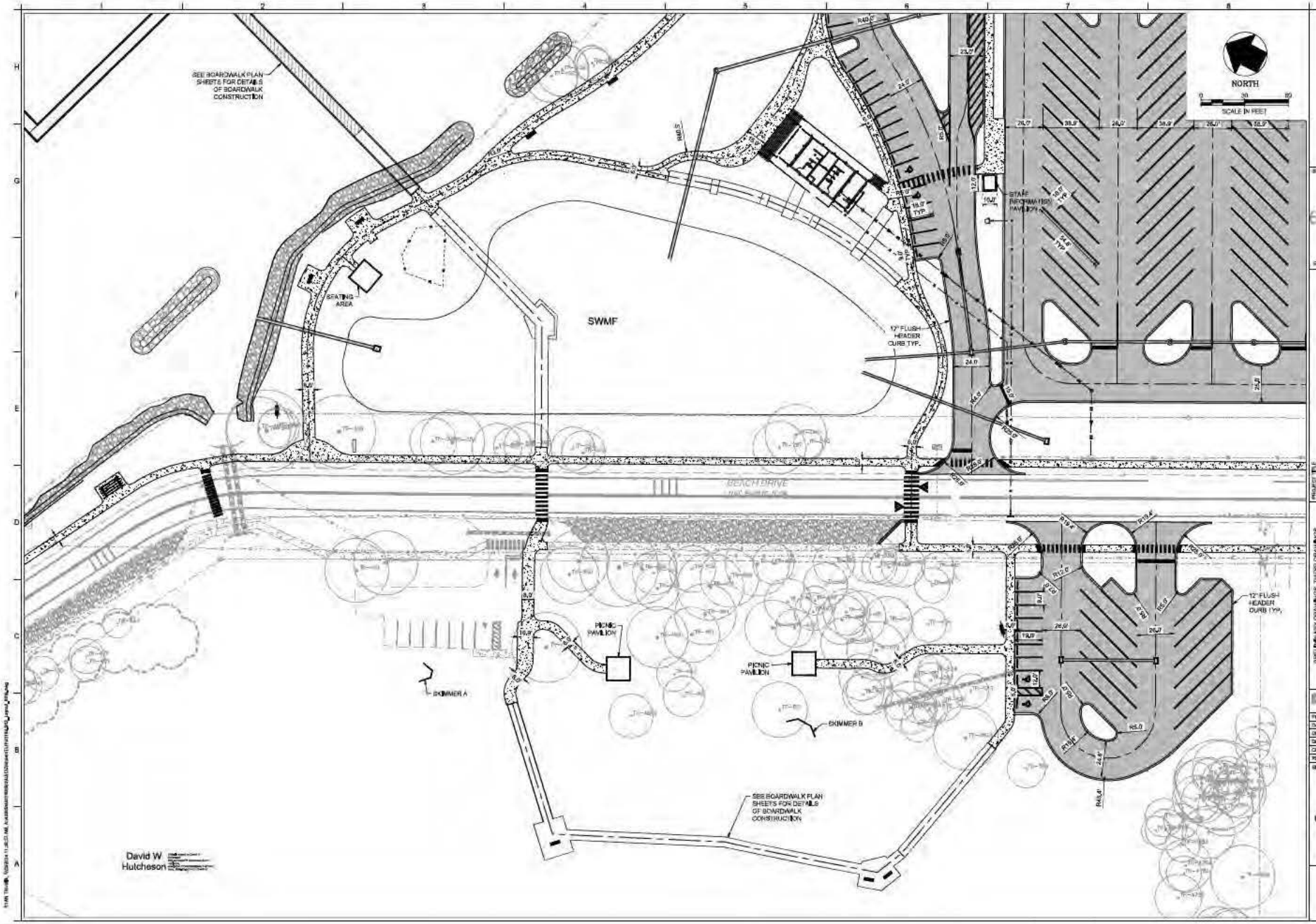
PROJECT NO	44159400
DATE	10/4/2023
DESIGNED	JP
DRAWN	RMT
CHECKED	DMP
REVIEWED	DMP

SHEET TITLE

SITE AND GEOMETRY PLAN SOUTHERN

C4.1

SHEET X OF X



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60% PLANS

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PROJECT TITLE

PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

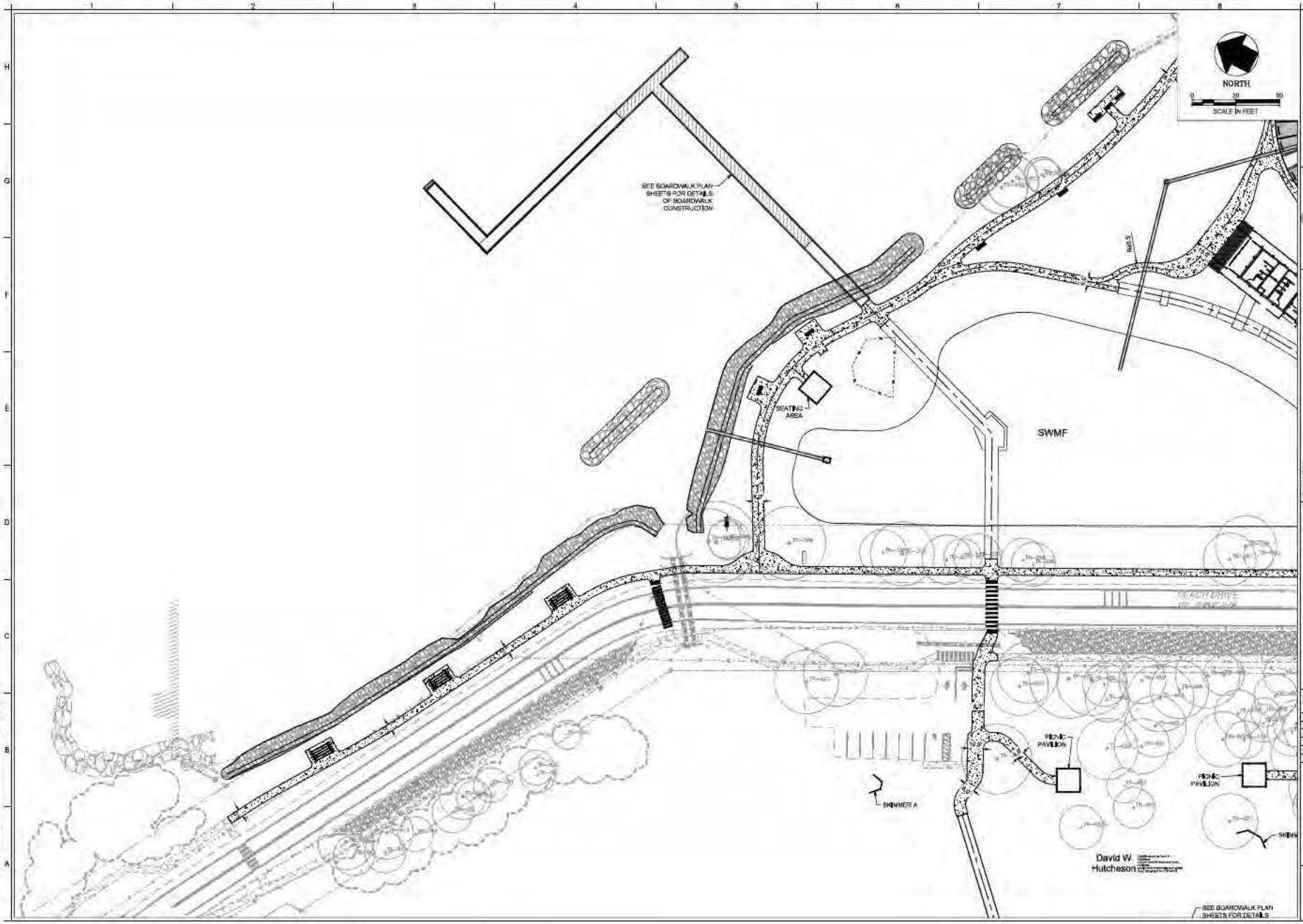
PROJECT NO	44159400
DATE	10/07/2023
DESIGNED	JH
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

SITE AND GEOMETRY PLAN WESTERN

C4.2

SHEET X OF X



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60% PLANS

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

PROJECT NO	43195403
DATE	10/4/2023
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

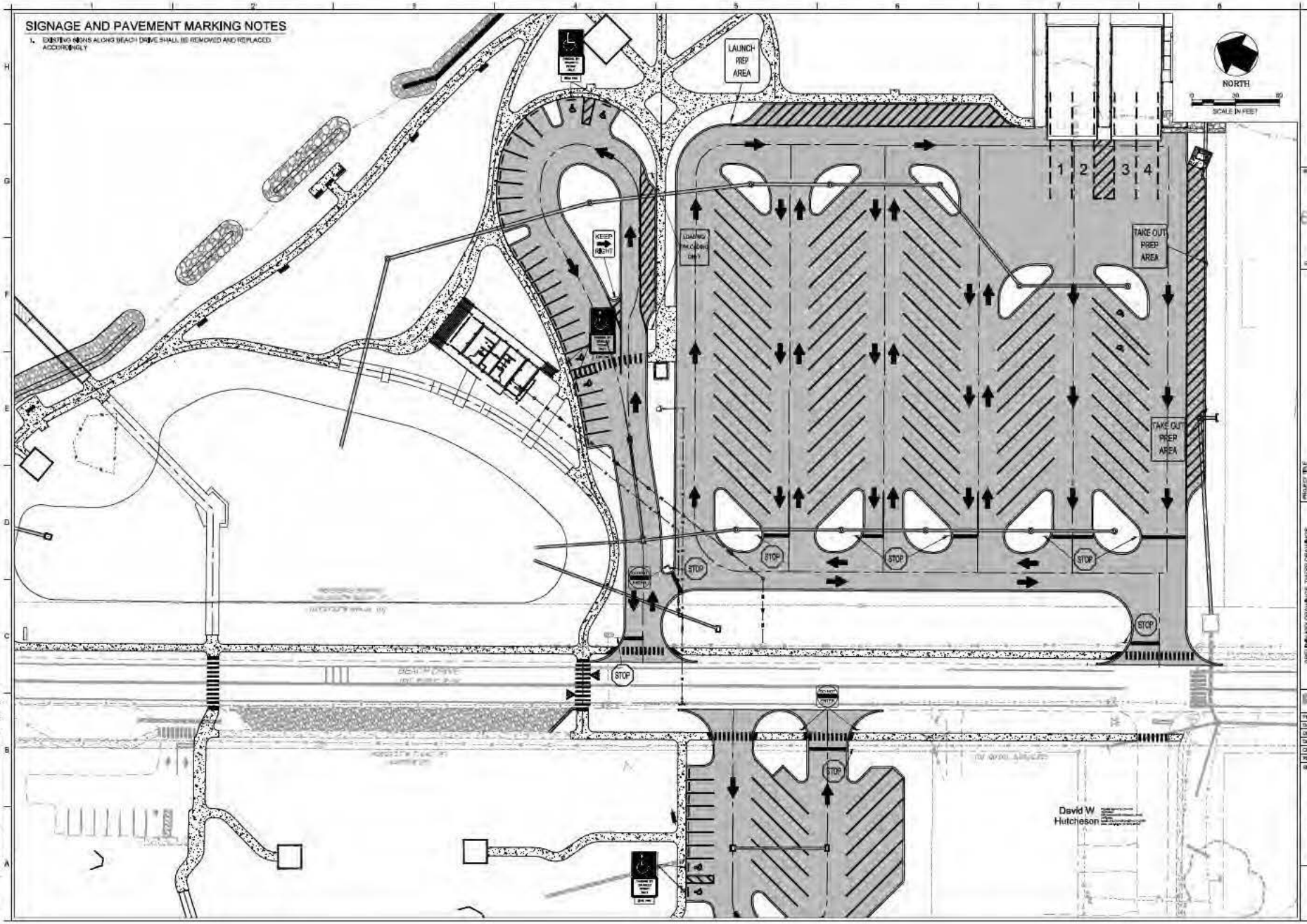
SITE AND GEOMETRY PLAN NORTHERN

C4.3

SHEET X OF X

SIGNAGE AND PAVEMENT MARKING NOTES

1. EXISTING SIGNS ALONG BEACH DRIVE SHALL BE REMOVED AND REPLACED ACCORDINGLY



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60% PLANS

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

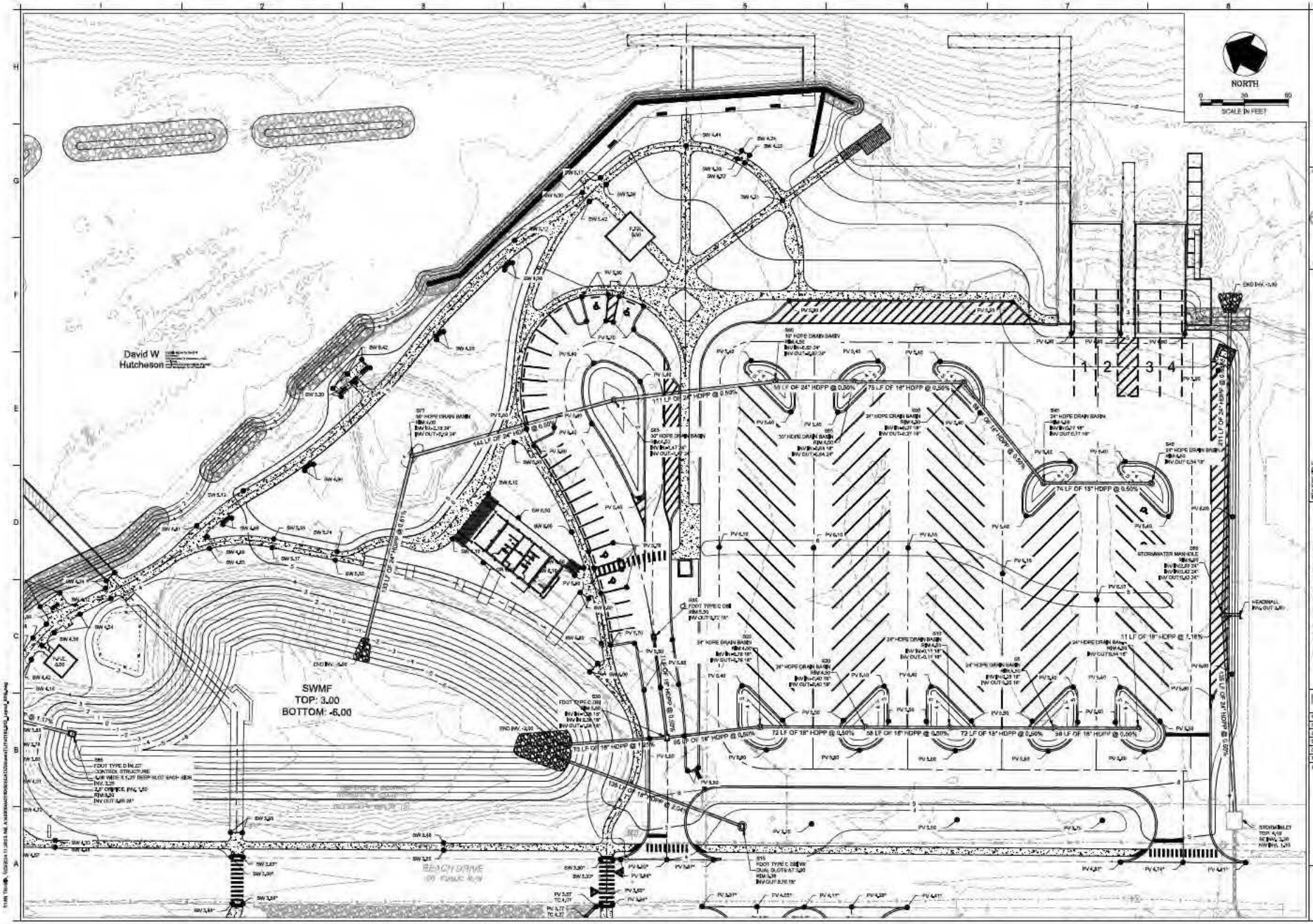
PROJECT NO	
DATE	
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

SIGNAGE AND PAVEMENT MARKING PLAN

C5

SHEET X OF X



halff
3200 BELLAIRE BLVD., SUITE 100
HOUSTON, TEXAS 77025
TEL: (832) 775-4500

60% PLANS

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

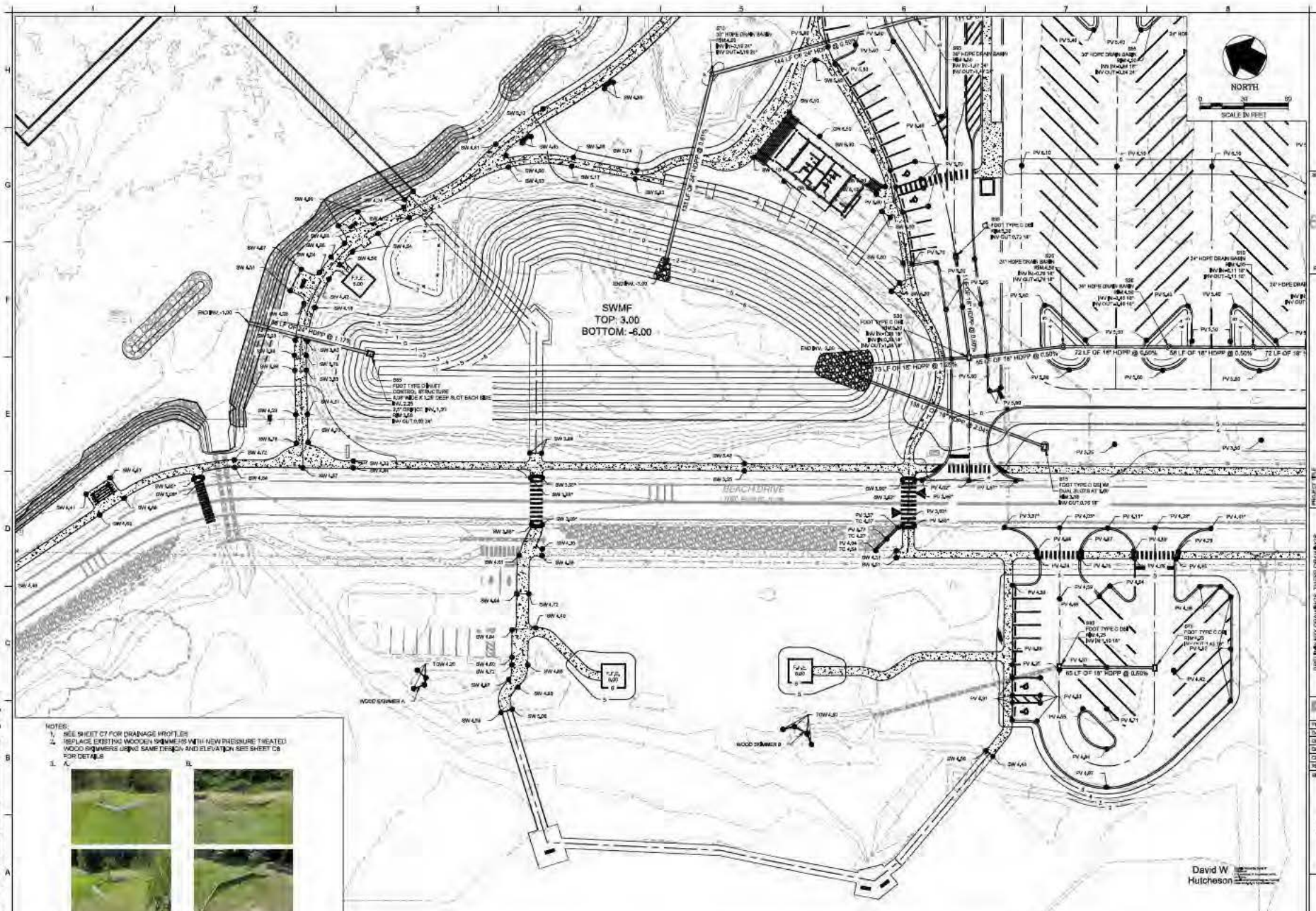
PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

PROJECT NO	48189409
DATE	10/4/2023
DESIGNED	JK
DRAWN	RMT
CHECKED	DWP
REVIEWED	DWP

GRADING AND DRAINAGE PLAN SOUTHERN

C6.1

SHEET X OF X



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60% PLANS

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
GALVESTON COUNTY, TX

PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

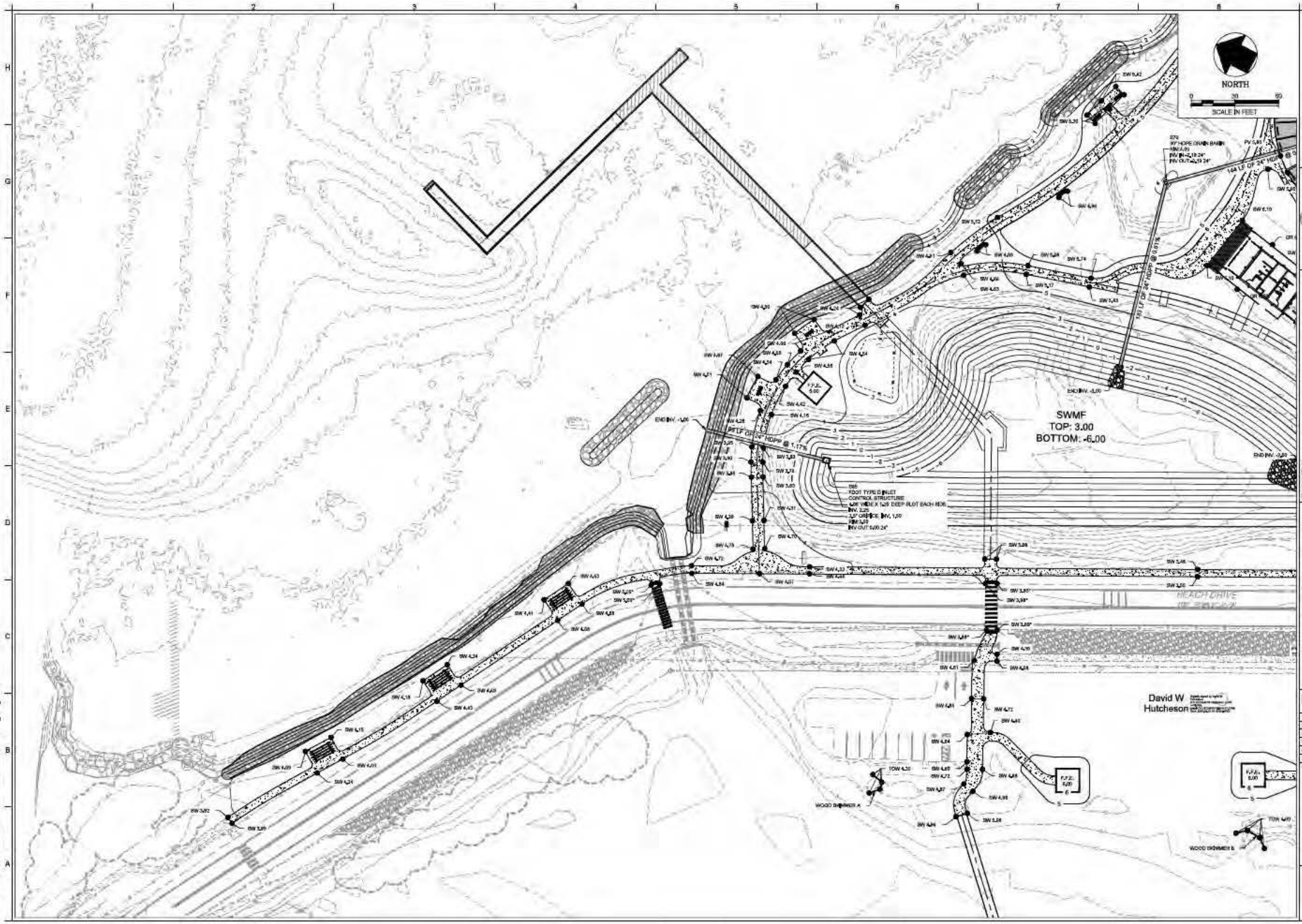
PROJECT NO	48189400
DATE	10/4/2023
DESIGNED	JH
DRAWN	RMT
CHECKED	DMH
REVIEWED	DMH

SHEET TITLE

GRADING AND DRAINAGE PLAN WESTERN

C6.2

SHEET X OF X



halff
3200 BEE CAVES ROAD, SUITE 100
AUSTIN, TEXAS 78746
(512) 777-4600

SEAL

60% PLANS

ENG

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PROJECT TITLE

PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

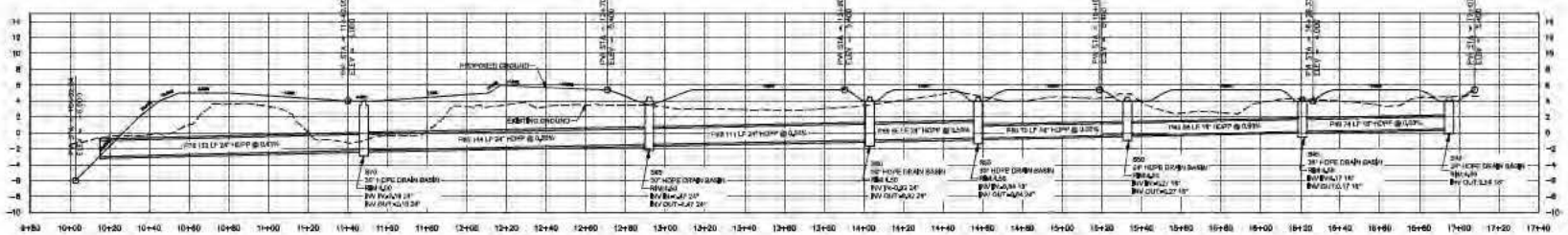
PROJECT NO	10015940
DATE	10/4/2023
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

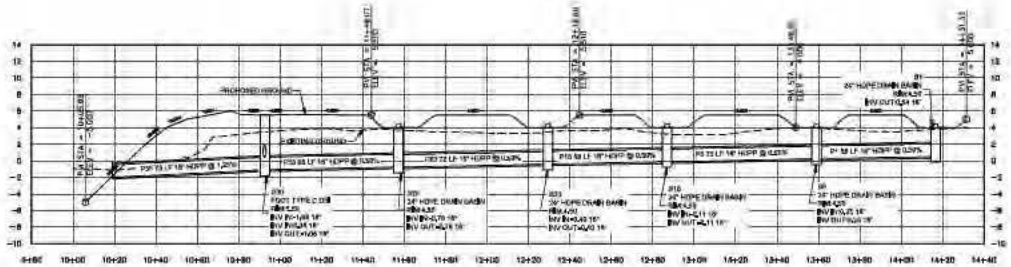
SHEET TITLE

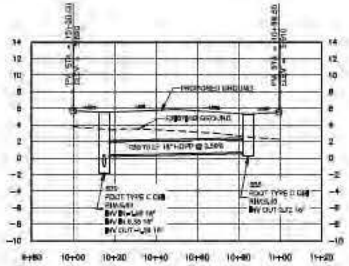
GRADING AND DRAINAGE PLAN NORTHERN

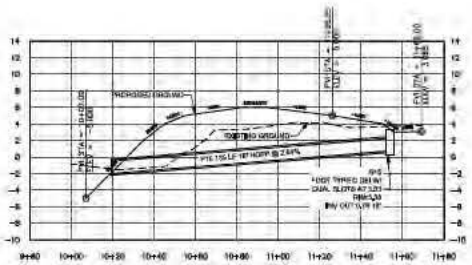
C6.3

SHEET X OF X









NOTES:
1. SEE SHEETS 6.1 TO 6.3 FOR LOCATIONS OF STRUCTURES AND PIPES IN PLAN VIEW

David W Hutcheson

halff
AECOM
2001 KIRBY DRIVE, SUITE 1000
HOUSTON, TEXAS 77019
TEL: (713) 955-4500

60% PLANS

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
CALCASIEU COUNTY, FL

PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

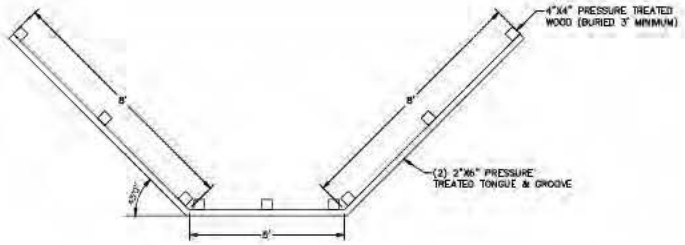
PROJECT NO	015150-005
DATE	10/27/2023
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

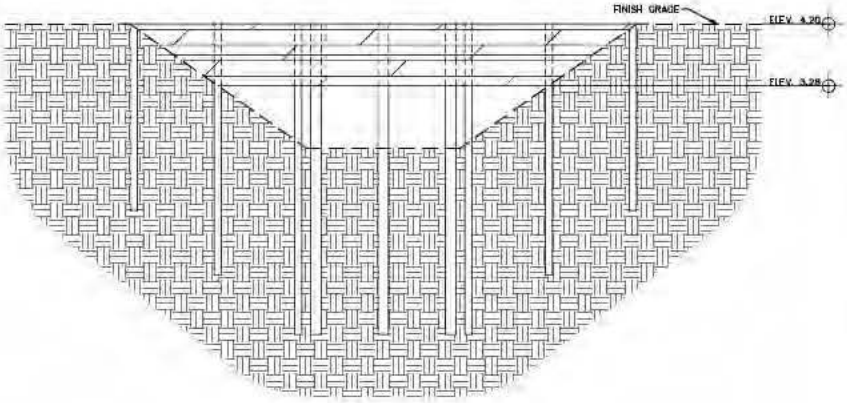
GRADING AND DRAINAGE PLAN

C7

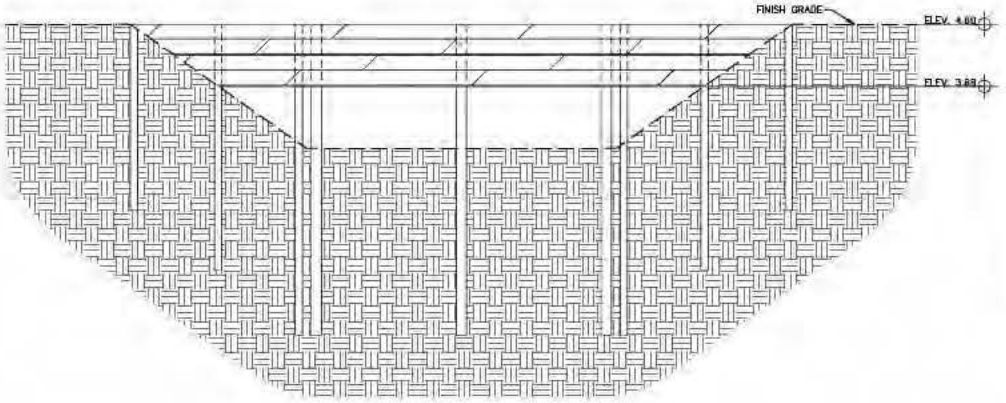
SHEET X OF X



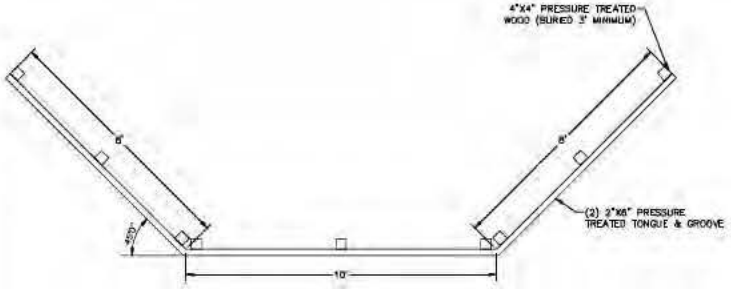
SKIMMER A PLAN VIEW DETAIL
N.T.S.



SKIMMER A VERTICAL VIEW DETAIL
N.T.S.



SKIMMER B VERTICAL VIEW DETAIL
N.T.S.



SKIMMER B PLAN VIEW DETAIL
N.T.S.

NOTES:
1. REPLACE EXISTING WOODEN SKIMMERS WITH NEW SKIMMERS AS SHOWN IN THE SAME APPROXIMATE LOCATION. SEE SHEET 6.2
2. SKIMMERS SHALL BE NO. 2 PRESSURE TREATED PINE 2"X6", PRIME GROUND CONTACT TONGUE AND GROOVE CENTER MATCH.
3. SUPPORT POSTS SHALL BE 4"X4" NO. 2 PRESSURE TREATED PINE, PRIME GROUND CONTACT, BURIED 3 FEET BELOW GROUND.

David W Hutcheson

halff

SEAL

60% PLANS

DATE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
CHALOOSA COUNTY, FL

PROJECT TITLE

PRELIMINARY DRAWINGS, THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	DESCRIPTION	DATE

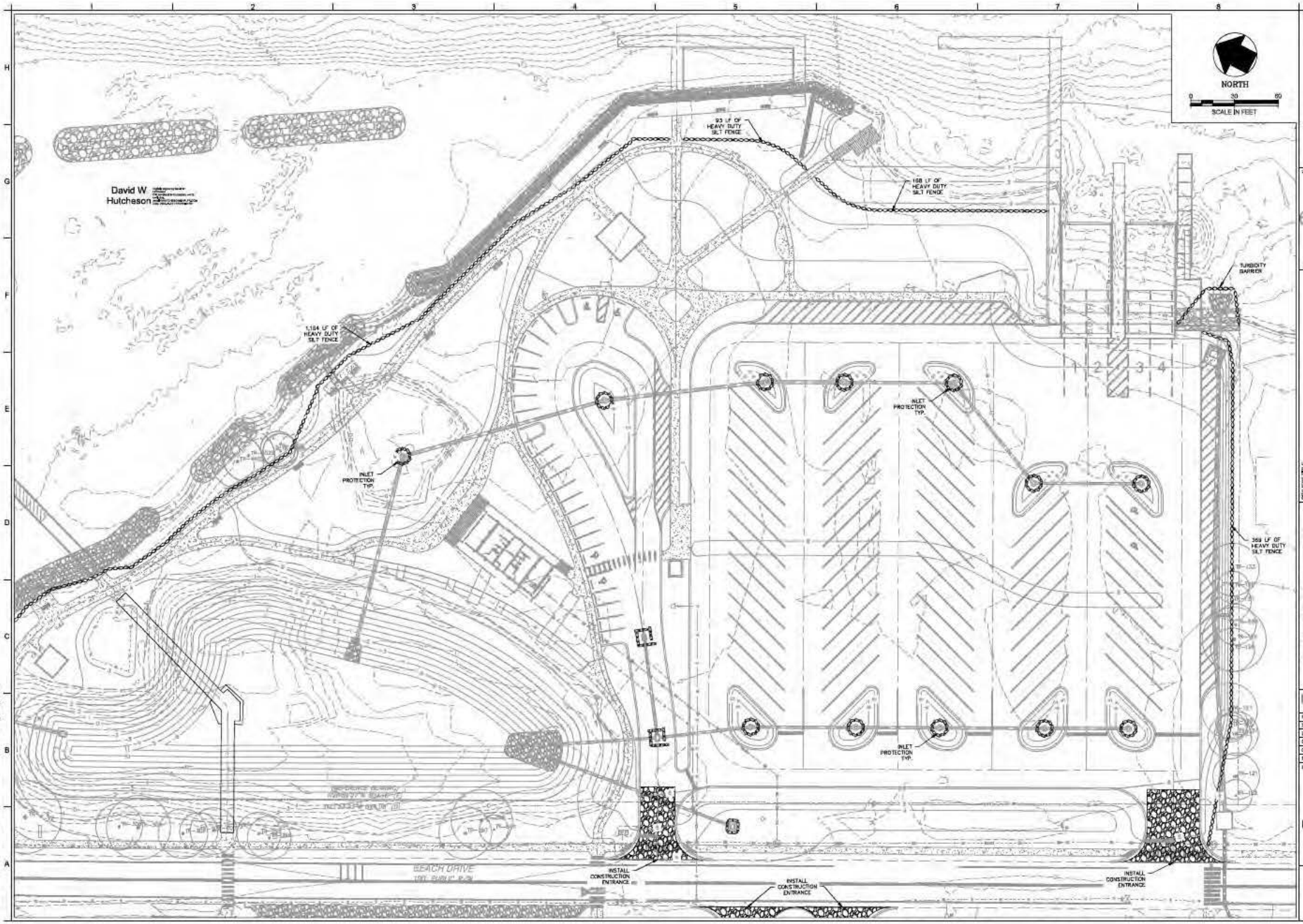
PROJECT NO	44159400
DATE	10/07/2022
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

SKIMMER DETAILS

C8

SHEET X OF X



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60% PLANS

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

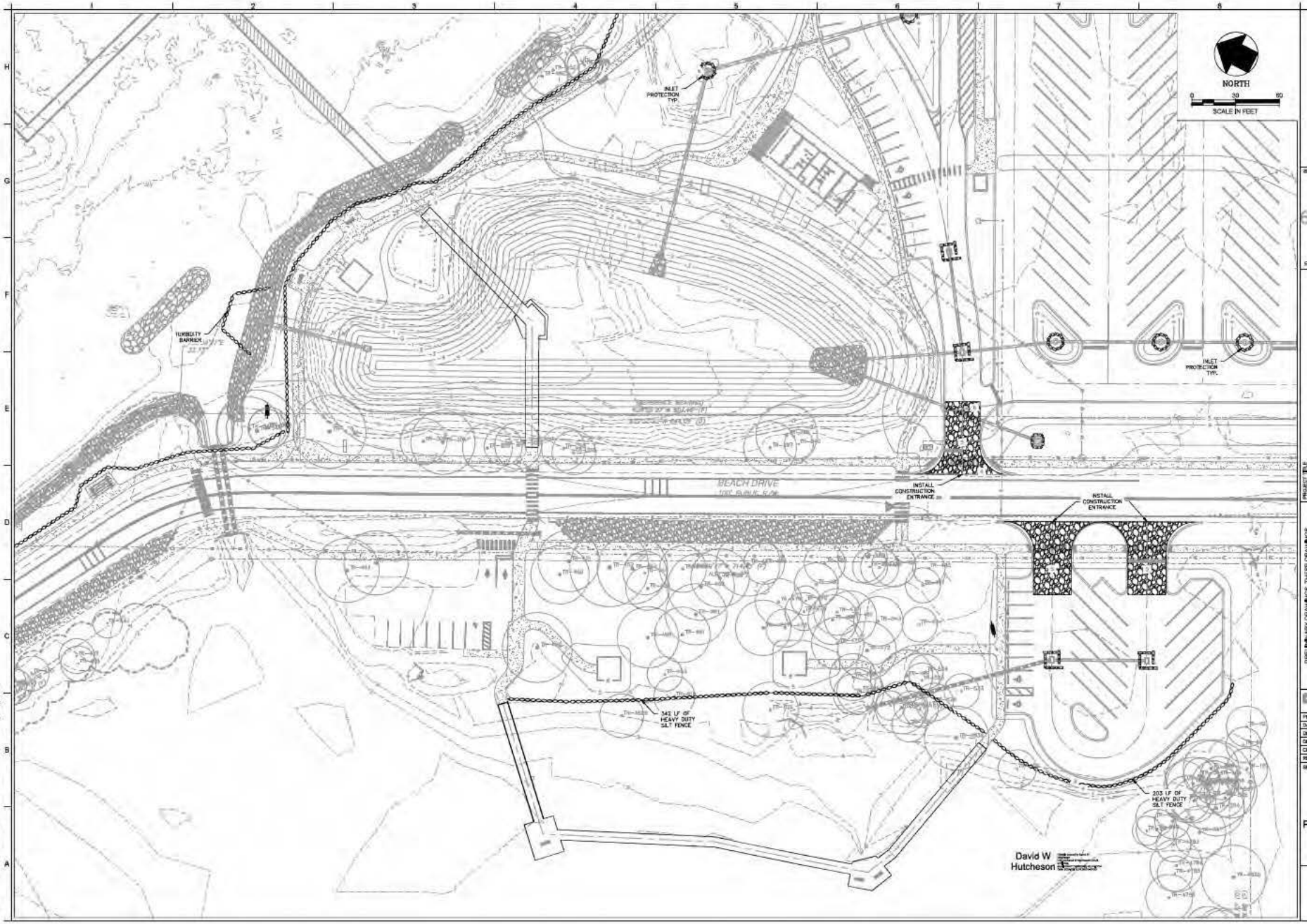
PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

PROJECT NO	45195400
DATE	10/4/2023
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

STORMWATER POLLUTION PREVENTION PLAN SOUTHERN

C9.1

SHEET X OF X



halff
3200 SOUTHWEST FREEWAY, SUITE 1300
HOUSTON, TEXAS 77027
TEL: (832) 775-4500

60% PLANS

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

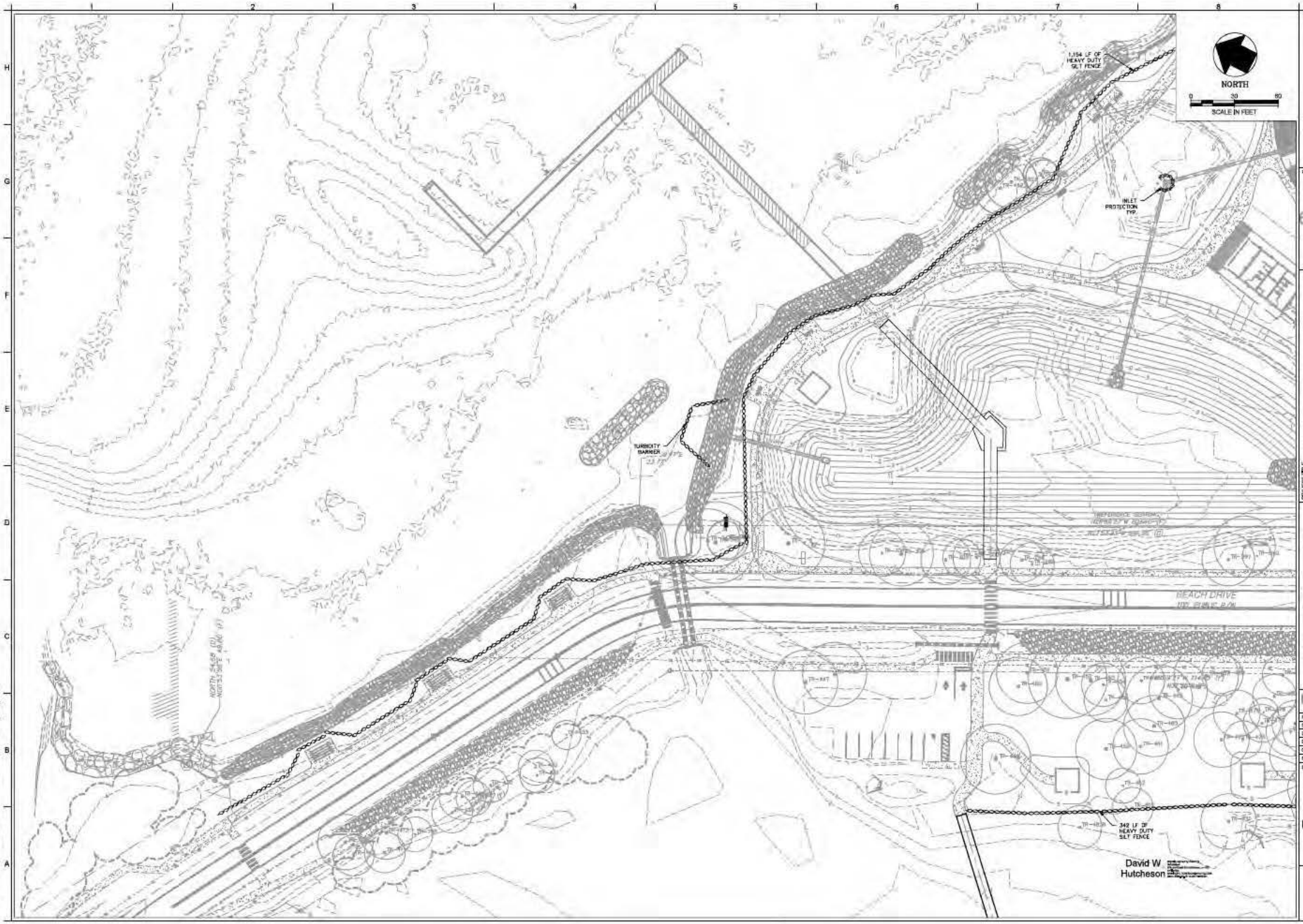
PROJECT NO	49189403
DATE	10/24/2023
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

STORMWATER POLLUTION PREVENTION PLAN WESTERN

C9.2

SHEET X OF X



halff
3200 SE Dixie Country Blvd, Suite 100
Stuart, FL 34997
772.781.1183 772.781.1493

SEAL

60% PLANS

ENG:

PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / ISSUANCE	DATE

PROJECT NO	40199403
DATE	09/04/2025
DESIGNED	JP
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

STORMWATER POLLUTION PREVENTION PLAN NORTHERN

C9.3

SHEET X OF X

RECORD KEEPING

CONTRACTOR SHALL COMPLETE THE NECESSARY RECORD KEEPING TASKS IN A REGULAR AND EXPEDIENT MANNER WHILE CONSTRUCTION ACTIVITIES ARE OCCURRING.

1. CONTRACTOR SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOTICE OF TERMINATION (NOT) IS SUBMITTED TO FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP):
   a) A COPY OF ALL NOTICES OF INTENT (NOI) SUBMITTED TO FDEP;
   b) A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN;
   c) A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT;
   d) A COPY OF ALL INSPECTION REPORTS GENERATED AS REQUIRED BY THE FDEP NPDES GENERAL PERMIT;
   e) A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED DURING THE COURSE OF THE PROJECT;
   f) DAILY RAINFALL INFORMATION COLLECTED.
2. CONTRACTOR SHALL RECORD THE FOLLOWING DATES:
   a) WHEN MAJOR GRADING ACTIVITIES OCCUR;
   b) WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE;
   c) WHEN STABILIZATION (I.E. EROSION CONTROL) MEASURES BEGIN.
3. CONTRACTOR SHALL PROVIDE A FOREMAN OR SUPERINTENDENT WHO IS CERTIFIED UNDER THE FLORIDA STORMWATER, EROSION, AND SEDIMENTATION CONTROL INSPECTOR TRAINING PROGRAM. SAID FOREMAN OR SUPERINTENDENT SHALL BE AVAILABLE IN PERSON OR BY TELEPHONE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.
4. QUALIFIED INSPECTORS WHO HAVE KNOWLEDGE AND EXPERIENCE IN THE PRINCIPLES AND PRACTICE OF SEDIMENT AND EROSION CONTROL SHALL COMPLETE PROJECT SITE INSPECTIONS:
   a) AT LEAST ONCE EVERY SEVEN (7) DAYS;
   b) WITHIN 24 HOURS AFTER THE END OF A STORM EVENT OF 0.50 INCHES (IN.) OR MORE.
5. COPIES OF ALL NOI'S, NOT'S, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE REPORTS AND ALL OTHER RECORDS RESULTING FROM THE NPDES GENERAL PERMIT SHALL BE RETAINED BY THE CONTRACTOR AND EITHER PROVIDED OR USED IT FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART V. OF THE PERMIT. RECORDS SHALL BE MAINTAINED AT THE CONTRACTORS' PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE SITE.
6. CONTRACTOR SHALL PROVIDE COPIES OF ALL STORMWATER POLLUTION PREVENTION PLAN (SWPPP) RECORDS TO THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE BY THE 10TH DAY OF EACH MONTH FOR THE IMMEDIATELY PRECEDING MONTH.

CRITICAL AREAS

THERE ARE SEVERAL CRITICAL FEATURES ON THE SITE THAT SHALL NOT BE IMPACTED BY CONSTRUCTION ACTIVITIES OR EROSION AND SEDIMENTATION RESULTING FROM SAME. THEY ARE AS FOLLOWS: THE WATERS OF DESTIN HARBOR AND THE WATERS OF EAST PASS.

GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN NPDES CONSTRUCTION PERMIT PRIOR TO CONSTRUCTION ACTIVITIES AND FOR COMPLIANCE WITH ALL STATE, LOCAL, AND FEDERAL PERMITS RELATED TO THIS PROJECT.
2. THE EROSION CONTROL MEASURES SET FORTH IN THESE PLANS ARE INTENDED AS MINIMUM STANDARDS. ALL EROSION CONTROL REQUIRED SHALL BE IN ACCORDANCE WITH THE SWPPP. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL EXPOSED AREAS; COST OF WHICH SHALL BE INCIDENTAL TO THE PROJECT.
3. PRIOR TO THE REQUIRED PRE-CONSTRUCTION MEETING, CONTRACTOR SHALL PROVIDE IN WRITING THE NAME AND TELEPHONE NUMBER OF THE STORMWATER CONTROL OFFICER TO CITY OF DESTIN PLANNING AND DEVELOPMENT SERVICES.
4. THE STORMWATER CONTROL OFFICER SHALL BE RESPONSIBLE FOR CONTINUALLY MONITORING WEATHER CONDITIONS AND EVALUATING THE EFFECTIVENESS OF THE CONTROL MEASURES THROUGHOUT ALL PHASES OF CONSTRUCTION.
5. AS CONSTRUCTION PROGRESSES, THE STORMWATER CONTROL OFFICER SHALL MAKE ADJUSTMENTS AND/OR INSTALL ADDITIONAL MEASURES TO PREVENT DIRECT FLOW OR TRACKING OF SEDIMENTS ONTO ADJACENT PROPERTY, CONSERVATION AREAS, PUBLIC STREETS OR DRAINAGE SYSTEMS.
6. TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PLACED ADJACENT TO ANY WATERWAY OR DRAINAGE FEATURE PRIOR TO CONSTRUCTION AND REMAIN IN PLACE UNTIL CONSTRUCTION OF THE FEATURE IS COMPLETE AND ALL AREAS ARE SUITABLY STABILIZED.
7. CONTRACTOR SHALL REVISE THE SWPPP WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING AN INSPECTION WHEN ADDITIONS AND/OR MODIFICATIONS TO BEST MANAGEMENT PRACTICES (BMPS) ARE NECESSARY TO CORRECT OBSERVED PROBLEMS. REVISIONS SHALL OCCUR WHENEVER:
   a) A CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE AT THE CONSTRUCTION SITE HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE UNITED STATES NOT PREVIOUSLY ADDRESSED IN THE DOCUMENT;
   b) INSPECTIONS ARE CAUSING WATER QUALITY EXCEEDANCES AS DEFINED BY THE EPA, OR THE BMPS ARE INEFFECTIVE IN MINIMIZING POLLUTANTS IN STORMWATER DISCHARGING FROM THE CONSTRUCTION SITE.
8. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE AT LOCATIONS SHOWN IN THE PLANS OR AS REQUIRED UNTIL CONSTRUCTION IS COMPLETED, SOILS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. ALL EROSION CONTROL MEASURES ARE THEN TO BE REMOVED UPON APPROVAL BY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE.
9. EROSION CONTROL ITEMS ARE ESTIMATED FOR PREVENTION, CONTROL, AND ABATEMENT OF EROSION, SEDIMENTATION AND WATER POLLUTION. THESE ITEMS ARE TO BE USED AT LOCATIONS DESCRIBED IN THE APPROVED SWPPP OR AS DIRECTED BY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
10. ANY SEDIMENTS, GRAVEL, OR MUD SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ADJACENT PROPERTY, ROADWAYS OR INTO STORM DRAINAGE SYSTEMS SHALL BE RECOVERED AND DISPOSED OF PROPERLY.
11. SWEEPING THE PERIMETER ROADS SHALL BE REQUIRED AS NEEDED TO REMOVE ANY DEBRIS OR SEDIMENT RESULTING FROM PROJECT ACTIVITIES OR AT THE DIRECTION OF REGULATORY AGENCIES INSPECTING THE PROJECT.
12. ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED DURING ANY PHASE OF DEVELOPMENT AT THE DISCRETION OF REGULATORY AGENCIES INSPECTING THE PROJECT.
13. CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE. CONTRACTOR SHALL PROVIDE THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. SINCE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AND INTENDED FOR EQUIPMENT USE AS A HAZARDOUS MATERIAL, SUCH PRODUCTS DO NOT NEED THE MSDS SUBMITTAL. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE AND WHO SHALL PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE; HOWEVER, CONTRACTOR SHALL RE-LOCATE CONSTRUCTION ACTIVITIES TO ANOTHER AREA OF THE PROJECT UNTIL SUCH APPROVAL IS PROVIDED.
14. ALL SOD MATERIALS SHALL BE SUBJECT TO INSPECTION PRIOR TO PLACEMENT. ANY SOD WITH NOXIOUS WEEDS AND GRASSES SHALL BE REJECTED FOR USE ON THE PROJECT. CONTRACTOR SHALL FURNISH THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE, PRIOR TO INCORPORATION INTO THE PROJECT, A CERTIFICATION FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICE DIVISION OF PLANT INDUSTRY, STATING THAT THE SOD, HAY, STRAW, AND MULCH MATERIALS ARE FREE OF NOXIOUS WEEDS.
15. EQUIPMENT MAINTENANCE AND REPAIR SHALL BE LIMITED TO ONE AREA OF THE PROJECT. AN ADEQUATE NUMBER OF WASTE DISPOSAL RECEPTACLES FOR LIQUID AND SOLID WASTE SHALL BE PROVIDED. WASTE SHALL BE DISPOSED OF PROPERLY OFF-SITE. THE MAINTENANCE AREAS SHALL BE INSPECTED AND CLEANED DAILY. CARE SHALL BE TAKEN THAT ANY OILS, GASOLINE, GREASE, SOLVENTS, AND OTHER POTENTIAL POLLUTANTS SHALL NOT BE WASHED DIRECTLY INTO THE ADJACENT STORMWATER MANAGEMENT FACILITY EITHER DIRECTLY OR INDIRECTLY THROUGH THE STORMWATER CONVEYANCE SYSTEM.
16. A SUFFICIENT NUMBER OF WASTE AND TRASH RECEPTACLES SHALL BE PROVIDED AT ALL SITES. RECEPTACLES AND OTHER WASTE COLLECTION AREAS SHALL BE KEPT NEAT AND ORDERLY. TRASH CANS AND DUMPSTERS SHALL HAVE COVERS TO PREVENT THE ENTRANCE OF RAINFALL. ALL WASTE MATERIALS SHALL BE COLLECTED WEEKLY AT A MINIMUM AND DISPOSED AT A SUITABLE LANDFILL. TRASH COLLECTION POINTS SHALL BE LOCATED WHERE THEY WILL BE LEAST IMPACTED BY CONCENTRATED STORMWATER RUNOFF.
17. DUST CONTROL TECHNIQUES SHALL BE USED DURING DEMOLITION WHERE LARGE AMOUNTS OF DUST ARE GENERATED. IF WATER OR SLURRY IS USED TO CONTROL DUST, IT SHALL BE RETAINED ON THE SITE AND NOT BE ALLOWED TO ENTER THE CONVEYANCE SYSTEM, THE ADJACENT STORMWATER MANAGEMENT FACILITY OR WATERWAYS.
18. DUMP TRUCKS, CONCRETE TRUCKS AND OTHER CONSTRUCTION EQUIPMENT SHALL NOT BE WASHED AT LOCATIONS WHERE RUNOFF WILL FLOW DIRECTLY INTO THE ADJACENT STORMWATER MANAGEMENT FACILITY OR STORMWATER CONVEYANCE SYSTEM. AN AREA SHALL BE DESIGNATED BY THE CONTRACTOR FOR WASHING VEHICLES AND WILL BE LOCATED WHERE THE WASH WATER WILL SPREAD OUT AND EVAPORATE OR INFILTRATE DIRECTLY INTO THE GROUND OR WHERE THE RUNOFF CAN BE COLLECTED IN A TEMPORARY HOLDING OR SEEPAGE BASIN. WASH AREAS SHALL HAVE GRAVEL BASES TO MINIMIZE MUD GENERATION.
19. AN ISOLATED AREA SHALL BE DESIGNATED TO STORE CHEMICALS, CEMENTS, SOLVENTS, PAINTS, OR OTHER POTENTIAL WATER POLLUTANTS. THE AREA SHALL BE SO LOCATED AS TO ELIMINATE RUNOFF POLLUTION. TOXIC CHEMICALS AND MATERIALS, SUCH AS PESTICIDES, PAINTS, AND ACIDS SHALL BE STORED ACCORDING TO THE MANUFACTURER'S GUIDELINES. CARE SHALL BE TAKEN IN THE USE OF THESE MATERIALS TO AVOID ACCIDENTAL SPILLS. CONTAINERS OF CONSTRUCTION MATERIALS SHALL NOT BE WASHED IN OR NEAR THE ADJACENT STORMWATER MANAGEMENT FACILITY OR THE STORMWATER CONVEYANCE SYSTEM. GROUNDWATER RESOURCES SHALL BE PROTECTED BY THE USE OF PLASTIC MATS, TAR PAPER OR OTHER IMPERVIOUS MATERIALS ON ANY GROUND SURFACE WHERE TOXIC LIQUIDS ARE TO BE OPENED AND STORED.
20. ADEQUATE SANITARY FACILITIES SHALL BE PROVIDED DURING ALL CONSTRUCTION PHASES FOR WORKERS ACCORDING TO APPLICABLE HEALTH AND SAFETY PRACTICES AND REGULATIONS. SANITARY FACILITIES SHALL BE LOCATED AWAY FROM INLETS AND THE ADJACENT STORMWATER MANAGEMENT FACILITY TO AVOID ACCIDENTAL SPILLS INTO THE STORMWATER SYSTEM.

CONSTRUCTION SCHEDULE

THE PROJECT WILL BE CONSTRUCTED IN A SINGLE PHASE, WITH A CONSTRUCTION START OF SEPTEMBER 1, [illegible]. CONSTRUCTION IS EXPECTED TO BE COMPLETE BY JANUARY 31, [illegible] WITH DURATION OF 150 DAYS.

BEST MANAGEMENT PRACTICES

THE FOLLOWING BMPS SHALL BE USED TO CONTROL SEDIMENTATION AND EROSION DURING THE PROJECT:

1. A SOIL TRACKING PREVENTION DEVICE SHALL BE PROVIDED TO PREVENT THE TRACKING OF SOILS FROM THE SITE ONTO THE ADJACENT ROADWAYS.
2. ROCK BARRIERS FOR INLET PROTECTION FOR DITCH BOTTOM INLETS SHALL BE USED THROUGHOUT THE PROJECT WHEREVER THERE ARE EXISTING OR NEWLY CONSTRUCTED DITCH BOTTOM INLETS.
3. VEGETATIVE COVERS, BOTH TEMPORARY AND PERMANENT SHALL BE USED TO STABILIZE DISTURBED SOIL THROUGHOUT THE PROJECT.
4. PERMANENT OUTLET PROTECTION SHALL BE PROVIDED AT PROPOSED OUTFALLS AS A PERMANENT PART OF THE CONSTRUCTED STORMWATER FACILITIES. SEE GRADING AND DRAINAGE PLANS FOR ADDITIONAL INFORMATION.
5. SILT FENCE BARRIER SHALL BE USED TO DETER MIGRATION OF SEDIMENTS FROM THE PROJECT SITE INTO THE STORMWATER MANAGEMENT FACILITY NORTH OF THE SITE.

SPECIFICATIONS

SOIL TRACKING PREVENTION DEVICE

1. THE AREA OF THE ENTRANCE SHALL BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL.
2. GRAVEL SHALL BE PLACED TO THE SPECIFIED DIMENSIONS.
3. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHALL BE CONSTRUCTED SO AS TO INTERCEPT SEDIMENT BEFORE IT IS CARRIED OFF-SITE INTO THE STORMWATER CONVEYANCE SYSTEM, OR THE STORMWATER MANAGEMENT FACILITY.
4. IF WASH RACKS ARE USED, THEY SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
5. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE MUD, THEN THE TIRES SHALL BE WASHED BEFORE THE VEHICLE ENTERS A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS SHALL BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF-SITE, INTO THE STORMWATER CONVEYANCE SYSTEM OR THE STORMWATER MANAGEMENT FACILITY.

VEGETATIVE COVERS: TEMPORARY SEEDING

1. VEGETATION SHALL BE USED SO THAT DISTURBED AREAS WILL NOT BE DESTABILIZED FOR MORE THAN SEVEN (7) DAYS. SHOULD AREAS REMAIN DISTURBED FOR MORE THAN SEVEN (7) DAYS, THE AREA SHALL BE TEMPORARILY STABILIZED AS OUTLINED BELOW. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH 4,000 POUNDS (LB.) OF STRAW PER ACRE. IF EXPOSED SLOPES ARE GREATER THAN OR EQUAL TO 4:1, THEN AN EROSION BLANKET SUCH AS NORTH AMERICAN GREEN S75BN SHALL BE UTILIZED UNTIL THE AREA ACHIEVES FINAL STABILIZATION. HYDROMULCH MAY BE USED AS AN ALTERNATIVE.
2. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR ARE TO BE LEFT IDLE FOR MORE THAN 14 DAYS, SHALL BE STABILIZED WITH TEMPORARY SEED, SOD OR PERMANENT VEGETATIVE STABILIZATION METHODS.
3. QUICK GROWING/TEMPORARY SEEDING MIXTURE SHALL BE A MIXTURE OF ANNUAL AND PERENNIAL PLANT SPECIES AS OUTLINED BELOW. SEEDING RATES QUOTED ARE BASED ON PURE LIVE SEED.
   a) MARCH-APRIL PLANTING: ANNUAL RYEGRASS AT A RATE OF 10 POUNDS PER 1000 SF
   b) MAY PLANTING: BROWN TOP MILLET AT A RATE OF 10 POUNDS PER 1000SF
   c) JUNE-AUGUST PLANTING: MIX 50% RYE GRAIN AND 50% WINTER WHEAT AT A RATE OF 10 POUNDS PER 1000 SF
   d) SEPTEMBER-OCTOBER PLANTING: ANNUAL RYEGRASS AT A RATE OF 10 POUNDS PER 1000 SF
4. VEGETATION SHALL NOT BE ESTABLISHED ON SLOPES THAT ARE UNSUITABLE DUE TO INAPPROPRIATE SOIL TEXTURE, POOR INTERNAL STRUCTURE OR INTERNAL DRAINAGE, VOLUME OF OVERLAND FLOW, OR EXCESSIVE STEEPNESS, UNTIL MEASURES HAVE BEEN TAKEN TO CORRECT THESE PROBLEMS.
5. SURFACE ROUGHENING: IF THE AREA HAS BEEN RECENTLY LOOSENED OR DISTURBED, NO FURTHER ROUGHENING IS REQUIRED. WHEN THE AREA IS COMPACTED, CRUSTED, OR HARDENED, THE SOIL SURFACE SHALL BE LOOSENED BY DISKING, RAKING, HARROWING, OR OTHER ACCEPTABLE MEANS.
6. LIMING: WHERE SOILS ARE KNOWN TO BE HIGHLY ACID (PH 5.5 AND LOWER), LIME SHALL BE APPLIED AT THE RATE OF TWO TONS OF PULVERIZED AGRICULTURAL LIMESTONE PER AC.
7. FERTILIZER: SHALL BE APPLIED AS 500 LB./AC. OF 16-4-8 (11 LB./1,000 SF) OR EQUIVALENT. GREATER THAN 50% OF THE NITROGEN SHALL BE IN SLOW RELEASE FORM. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE TOP 2 TO 4 IN. OF THE SOIL.
8. CERTIFIED SEED SHALL BE USED FOR ALL SEEDING.
9. APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER ON A FIRM, FRIABLE SEEDBED. MAXIMUM SEEDING DEPTH SHALL BE ¼ IN.
10. WHEN HYDROSEEDING, IF A MACHINERY BREAKDOWN OF 30 MINUTES TO 2 HOURS OCCURS, 50% MORE SEED SHALL BE ADDED TO THE TANK, BASED ON THE PROPORTION OF THE SLURRY REMAINING IN THE TANK. BEYOND 2 HOURS A FULL RATE OF NEW SEED SHALL BE NECESSARY.
11. ALL TEMPORARY SEEDING MUST BE MULCHED IMMEDIATELY UPON COMPLETION OF SEED APPLICATION.
12. NEW SEEDLINGS SHALL BE SUPPLIED WITH ADEQUATE MOISTURE. SUPPLY WATER AS NEEDED, ESPECIALLY LATE IN THE SEASON, IN ABNORMALLY HOT OR DRY WEATHER, OR ON ADVERSE SITES. WATER APPLICATION RATES SHALL BE CONTROLLED TO PREVENT RUNOFF.
13. INSPECT SEEDED AREAS FOR FAILURE AND MAKE NECESSARY REPAIRS AND RESEEDING WITHIN THE SAME SEASON, IF POSSIBLE.
14. IF VEGETATIVE COVER IS INADEQUATE TO PREVENT RILL EROSION, OVER-SEED AND FERTILIZE IN ACCORDANCE WITH SOIL TEST RESULTS.
15. SEEDLINGS SHALL BE FERTILIZED ONE YEAR AFTER PLANTING TO INSURE PROPER STAND DENSITY.

VEGETATIVE COVERS: SODDING

1. PRIOR TO SOIL PREPARATION, AREAS TO BE SODDED SHALL BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVAL PLAN. THESE OPERATIONS SHALL LEAVE AS MUCH TOPSOIL AS POSSIBLE OR REPLACE THE TOPSOIL TO A DEPTH OF 4IN.
2. SOIL TESTS SHALL BE MADE TO DETERMINE THE EXACT REQUIREMENTS FOR LIME AND FERTILIZER. THESE AMENDMENTS SHALL BE SPREAD EVENLY OVER THE AREA TO BE SODDED AND INCORPORATED INTO THE TOP 3 TO 4 IN. OF THE SOIL BY DISKING, HARROWING, OR OTHER ACCEPTABLE MEANS.
3. PRIOR TO LAYING SOD, THE SOIL SURFACE SHALL BE CLEAR OF TRASH, DEBRIS, ROOTS, BRANCHES, STONES AND CLODS IN EXCESS OF 2 IN. IN LENGTH OR DIAMETER. SOD SHALL NOT BE APPLIED TO GRAVEL OR OTHER NON-SOIL SURFACES.
4. ANY IRREGULARITIES IN THE SOIL SURFACE RESULTING FROM TOPSOIL OR OTHER OPERATIONS SHALL BE FILLED OR LEVELED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
5. SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 IN., PLUS OR MINUS 1/4 IN., AT THE TIME OF CUTTING. THIS THICKNESS SHALL EXCLUDE SHOOT GROWTH AND THATCH.
6. PIECES OF SOD SHALL BE CUT TO THE SUPPLIER'S STANDARD WIDTH AND LENGTH, WITH A MAXIMUM ALLOWABLE DEVIATION IN ANY DIMENSION OF 5%. TORN OR UNEVEN PADS SHALL NOT BE ACCEPTABLE.
7. STANDARD SIZE SECTIONS OF SOD SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED FROM A FIRM GRASP ON ONE END OF THE SECTION.
8. SOD SHALL NOT BE CUT OR LAID IN EXCESSIVELY WET OR DRY WEATHER.
9. SOD SHALL BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS.
10. IRRIGATE AREAS TO BE SODDED WITH A MINIMUM OF 1/2 IN. OF WATER UNLESS RECENT RAINS HAVE PROVIDED EQUIVALENT MOISTURE.
11. THE FIRST ROW OF SOD SHALL BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACE PARALLEL TO AND BUTTING TIGHTLY AGAINST EACH OTHER. LATERAL JOINTS SHALL BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. CARE SHALL BE EXERCISED TO INSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS.
12. ON SLOPES 3:1 OR GREATER, OR WHEREVER EROSION MAY BE A PROBLEM, SOD SHALL BE LAID WITH STAGGERED JOINTS AND SECURED BY PEGGING OR OTHER APPROVED METHODS. SOD SHALL BE INSTALLED WITH THE LENGTH PERPENDICULAR TO THE SLOPE (ON THE CONTOUR). BEGIN LAYING SOD AT THE BOTTOM OF THE SLOPE AND WORK UPHILL.
13. AS SODDING OF CLEARLY DEFINED AREAS IS COMPLETED, SOD SHALL BE ROLLED OR TAMPED TO PROVIDE FIRM CONTACT BETWEEN ROOTS AND SOIL.
14. AFTER ROLLING, SOD SHALL BE IRRIGATED TO A DEPTH SUFFICIENT THAT THE UNDERSIDE OF THE SOD PAD AND THE SOIL 4 IN. BELOW THE SOD IS THOROUGHLY WET.
15. SOD SPECIES SHALL BE BERMUDA GRASS.

SILT FENCE BARRIER

1. SILT FENCE FABRIC SHALL BE [illegible].
2. POSTS FOR SILT FENCES SHALL BE EITHER 2 X 2 IN. SQUARE OR 1.33 LB. / LINEAR FT. STEEL WITH A MINIMUM LENGTH OF 4 FT. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.
3. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 IN. WIDE AND 4 IN. DEEP AROUND THE OUTSIDE PERIMETER OF THE STAKES.
4. THE FILTER FABRIC SHALL BE STAPLED TO THE WOODEN STAKES, AND 12 IN. OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE HEIGHT OF THE FILTER BARRIER SHALL BE A MINIMUM OF 24 IN.
5. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.

MAINTENANCE AND INSPECTION

ALL BMPS SHALL BE INSPECTED WEEKLY AT A MINIMUM AND AFTER EVERY RAINFALL EVENT EXCEEDING 1/2 IN. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY UPON COMPLETION OF THE INSPECTION. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF ANY SEDIMENT FILTER OR BARRIER. SUCH DEPOSITS SHALL BE DISPOSED OF IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

SOIL TRACKING PREVENTION DEVICE

1. THE ENTRANCE(S) SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS OF WAY.
2. TOP DRESS THE ENTRANCE PERIODICALLY WITH 2-IN. TO 4-IN. STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT WHEN VOID SPACES ARE FULL OF SEDIMENT.
3. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
4. SWEEP THE PAVED ROAD DAILY FOR SEDIMENTS AND STONES.
5. SOIL TRACKING PREVENTION DEVICE SHALL BE REMOVED PRIOR TO FINAL INSPECTION.

ROCK BARRIERS FOR INLET PROTECTION

1. DITCH BOTTOM INLETS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL EVENT OF 1/2 IN. OR GREATER AND REPAIRS MADE AS NEEDED. INSPECT FOR CUT, ABRASIONS, AND PROPER INSTALLATION AND REPLACE OR RE-POSITION AS NECESSARY.
2. ROCK BARRIERS FOR INLET PROTECTION SHALL BE REMOVED WHEN ALL AREAS WITHIN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

VEGETATIVE COVERS: TEMPORARY SEEDING

1. INSPECT THE VEGETATED AREAS WEEKLY FOR SIGNS OF POOR OR NO GERMINATION AND INDICATIONS OF EROSION.
2. AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER ADEQUATELY TO PREVENT RILL EROSION SHALL BE FILLED IN WITH PROPER TOPSOIL AND RE-SEEDED AS SOON AS SUCH AREAS ARE IDENTIFIED.
3. AREAS WHERE SEEDING HAS BEEN ESTABLISHED SHALL BE MOWED A MINIMUM OF EVERY TWO (2) WEEKS.

VEGETATIVE COVERS: SODDING

1. INSPECT THE VEGETATED AREAS WEEKLY FOR SIGNS OF POOR OR NO GERMINATION AND INDICATIONS OF EROSION.
2. AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER ADEQUATELY TO PREVENT RILL EROSION SHALL BE FILLED IN WITH PROPER TOPSOIL AND RE-SODDED AS SOON AS SUCH AREAS ARE IDENTIFIED.
3. AREAS WHERE SODDING HAS BEEN ESTABLISHED SHALL BE MOWED A MINIMUM OF EVERY TWO (2) WEEKS.

SILT FENCE BARRIER

1. SILT FENCE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL EVENT OF 1/2 IN. OR GREATER AND AT LEAST DAILY DURING PROLONGED RAINFALL EVENTS. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED OR SODDED. INLET PROTECTION SHALL BE INSPECTED AND GEO-TEXTILE FABRIC SHALL BE CHANGED AS NEEDED TO ALLOW POSITIVE FLOW.
3. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE BEFORE THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

CONTRACTOR CERTIFICATION

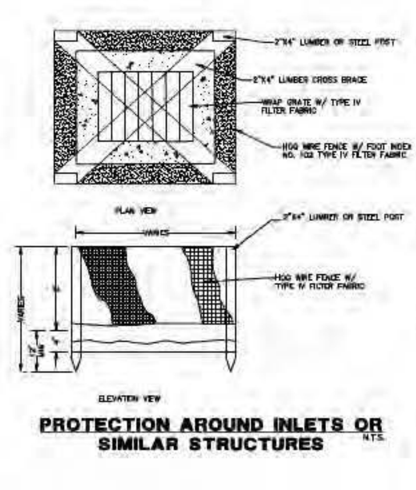
I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS SWPPP PREPARED THERE UNDER.

CONTRACTOR   DATE

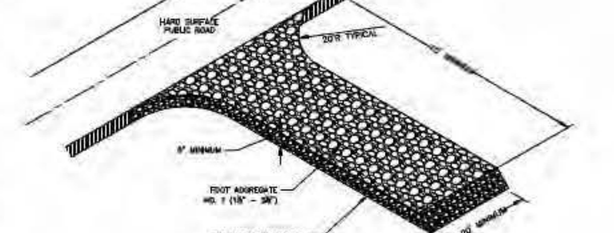
CONTRACTOR SHALL CONTROL EROSION WITHIN THE PROJECT LIMITS SUCH THAT THERE ARE NO NEGATIVE IMPACTS DOWNSTREAM OF THE PROJECT DUE TO UNCONTROLLED EROSION OR SEDIMENTATION.

SHOULD ADDITIONAL BMPS BE REQUIRED TO CONTROL EROSION AND SEDIMENTATION FROM THE SITE, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SUPPLEMENTARY STORMWATER POLLUTION PROTECTION PLAN WITH APPROPRIATE BMPS PLACED AS NEEDED.

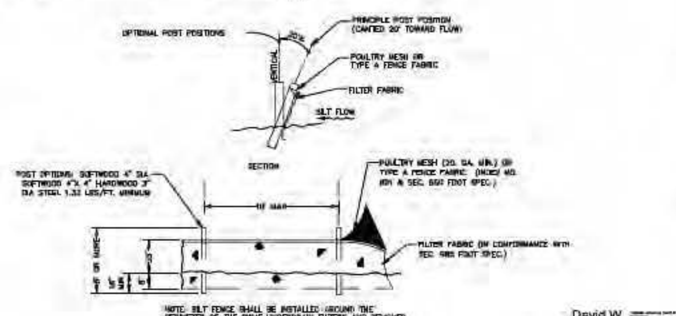
CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESCAPE OF SEDIMENT FROM THE SITE AND SHALL BE HELD RESPONSIBLE FOR ANY AND ALL IMPACTS RESULTING FROM SUCH EVENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF DOWNSTREAM IMPACTS DUE TO THE RELEASE OF SEDIMENTS FROM THE SITE INCLUDING BUT NOT LIMITED TO SEDIMENTATION AND EROSION THAT MAY RESULT FROM THE OUTLET OF SUCH SEDIMENTS DOWNSTREAM OF THE PROJECT. CONTRACTOR SHALL FULLY BEAR THE FINANCIAL COST OF ANY PENALTIES OR FINES RESULTING FROM SUCH EVENTS.



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES
N.T.S.



CONSTRUCTION ENTRANCE DETAIL
N.T.S.



TYPE C HEAVY DUTY SILT FENCE
N.T.S.

David W Hutcheson

SEAL

60% PLANS

PROJECT TITLE

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

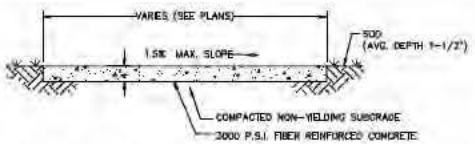
PROJECT NO	[illegible]
DATE	[illegible]
DESIGNED	JR
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

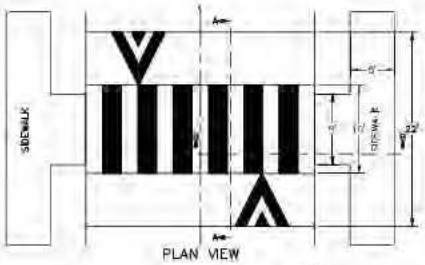
STORMWATER POLLUTION PREVENTION NOTES AND DETAILS

C10

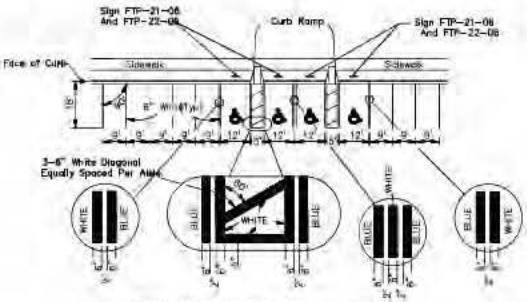
SHEET X OF X



TYPICAL CONCRETE SIDEWALK DETAIL
N.T.S.



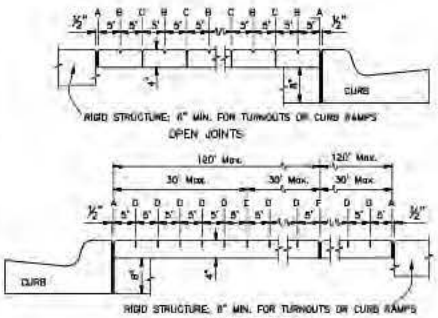
SPEED TABLE DETAIL
N.T.S.



TYPICAL PER FDOT STANDARD PLANS INDEX 711-001

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. BLUE PAVEMENT MARKINGS SHALL BE TINTED TO MATCH SHADE 15180 OF FEDERAL STANDARDS 595A.
5. THE FTP-22-06 PANAL SHALL BE MOUNTED BELOW THE FTP-21-06 SIGN.

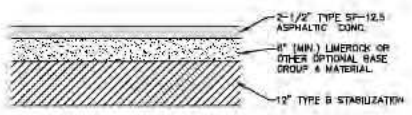
PAVEMENT MARKING FOR PARKING
N.T.S.



LEGEND:
- A- ½" EXPANSION JOINTS (PREFORMED JOINT FILLER)
- B- ¾" DUMMY JOINTS, TOOLED
- C- ¾" FORMED OPEN JOINTS
- D- ¾" SAW CUT JOINTS, 1¼" DEEP (WITHIN 96 HOURS) MAX. 5' CENTERS
- E- ¾" SAW CUT JOINTS, 1¼" DEEP (WITHIN 12 HOURS) MAX. 50' 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

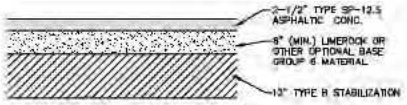
NOTE: REFER TO FDOT STANDARD PLANS 522-001 FOR ADDITIONAL DETAILS

SIDEWALK JOINTS DETAIL
N.T.S.



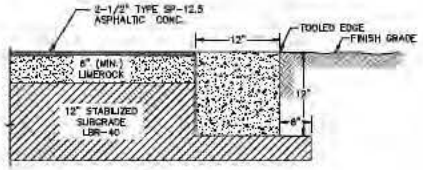
(REFERENCE FDOT STANDARD SPECIFICATIONS)

TYPICAL PAVEMENT DETAIL
N.T.S.

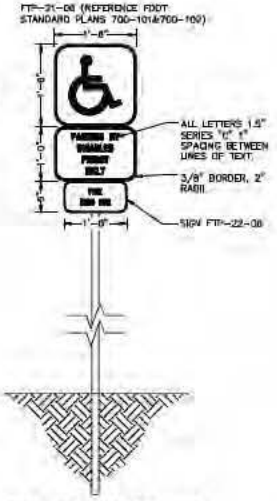


(REFERENCE FDOT STANDARD SPECIFICATIONS)

TYPICAL EXTRA STRENGTH PAVEMENT DETAIL
N.T.S.



FLUSH HEADER CURB
N.T.S.



HANDICAP ACCESS SIGN
N.T.S.

David W. Hutcheson

halff
1201 ELDRIDGE PKWY, SUITE 700
HOUSTON, TEXAS 77077
TEL: (281) 558-8700

60% PLANS

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

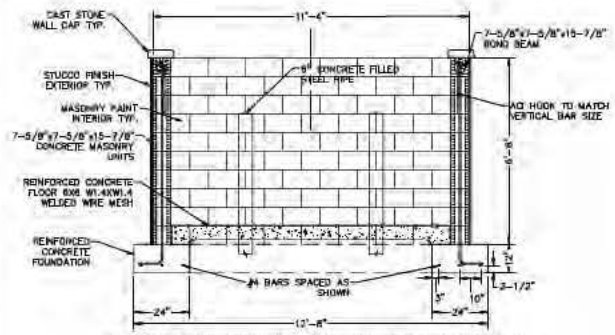
PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

PROJECT NO	019784.000
DATE	10/24/2022
DESIGNED	JH
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH
SHEET TITLE	

CONSTRUCTION DETAILS

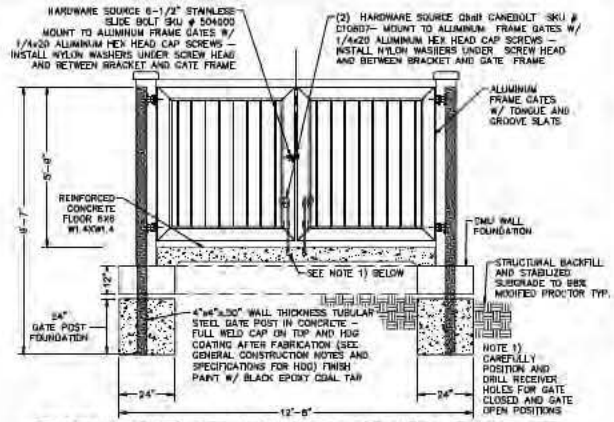
C11.1

SHEET X OF X



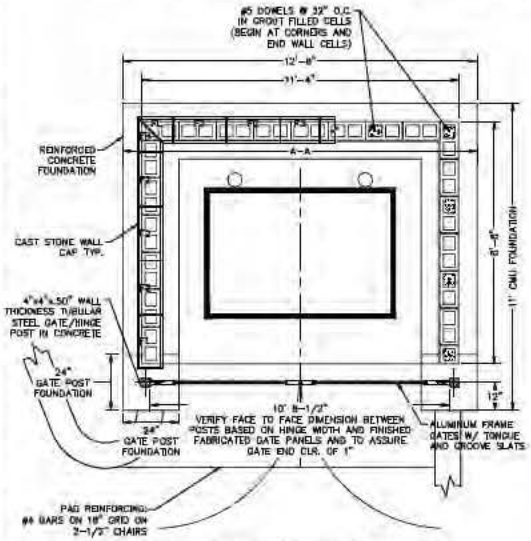
REFUSE CONTAINER ENCLOSURE SECTION A-A

N.T.S.



FRONT SECTION DETAIL REFUSE CONTAINER ENCLOSURE

N.T.S.



REFUSE CONTAINER ENCLOSURE

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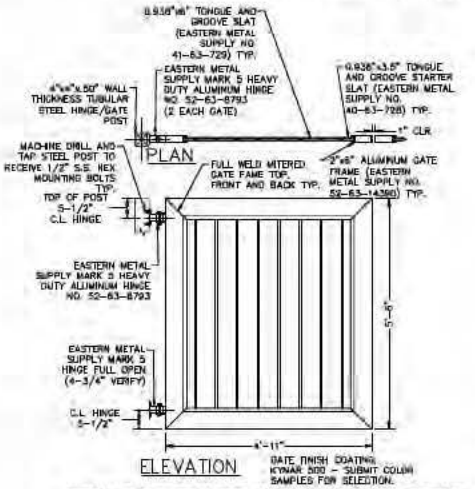
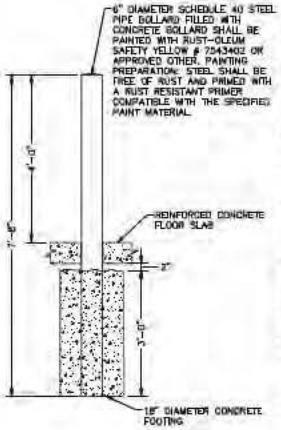


REFUSE CONTAINER ALUMINUM GATE DETAIL

N.T.S.



BOLLARD DETAIL

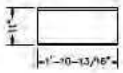
N.T.S.

CAST STONE WALL CAP PROFILE

N.T.S.

CAST STONE CAP 'F1'

N.T.S.



CAST STONE CAP 'F2'

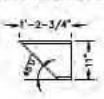
N.T.S.

CAST STONE CAP 'F3'

N.T.S.

CAST STONE CAP 'FR'

N.T.S.



CAST STONE CAP 'FL'

N.T.S.

David W Hutcheson

1. CONCRETE:
CONCRETE: (DESIGN PER CURRENT EDITION ACI 318)
SLAB ON GRADE: F'c= 3000 PSI
ROADWAY HEADERS AND PAVEMENTS: F'c=4000 PSI
ALL OTHER CONCRETE: F'c=3000 PSI
ALL CONCRETE SHALL BE PROPORTIONED, MIXED, PLACED, FINISHED, AND CURED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318, LATEST.
CEMENT: ASTM C150 LATEST
AGGREGATES: ALL AGGREGATES SHALL CONFORM TO ASTM C33 LATEST, CLASS 4S.

FINE AGGREGATE: SHALL BE WASHED NATURAL SAND, CLEAN, SOUND, SHARP, SCREENED, AND WELL-GRADED WITH NO GRAIN LARGER THAN WILL PASS A NO. 4 SIEVE.
NOT LESS THAN 15% NOR MORE THAN 30% BY WEIGHT SHALL PASS A NO. 50 SIEVE. NO FINE AGGREGATE SHALL BE USED IF IT CONTAINS MORE THAN 3% BY WEIGHT OF DELETERIOUS SUBSTANCES OR WHICH SHOWS A COLOR DARKER THAN PLATE 2 WHEN TESTED ACCORDING TO ASTM C40 LATEST.

COARSE AGGREGATE: SHALL BE WASHED, HARD, TOUGH, AND DURABLE SCREENED GRAVEL OR CRUSHED STONE HAVING NO MORE THAN 5% BY WEIGHT OF DELETERIOUS SUBSTANCES AND SOFT FRAGMENTS.
AGGREGATE SHALL BE WELL GRADED FROM THE LARGEST WHICH SHALL PASS A 1" MESH TO THE SMALLEST WHICH SHALL PASS A 3/8" MESH AND BE RETAINED BY A 1/4" MESH. ABRASION LOSS SHALL NOT EXCEED THE PERCENTAGES CONTAINED IN ASTM C33 LATEST, WHEN TESTED IN ACCORDANCE WITH THE PROCEDURES OUTLINED THEREIN. NO COARSE AGGREGATE SHALL BE USED IF IT CONTAINS MORE THAN 3% SILT OR WHICH SHOWS A COLOR DARKER THAN PLATE 1 WHEN TESTED ACCORDING TO ASTM C40 LATEST.

WATER: MIXING WATER FOR CONCRETE SHALL BE CLEAN, FRESH, AND SUITABLE FOR DRINKING AND SHALL NOT CONTAIN INJURIOUS AMOUNTS OF OIL, ACID, ALKALI, ORGANIC MATTER, OR OTHER DELETERIOUS SUBSTANCES, EXCEPT AS SPECIFICALLY APPROVED BY THE ENGINEER.

QUALITY CONTROL: CONCRETE, WHEN PLACED, SHALL BE OF A PLASTIC CONSISTENCY SUCH THAT IT CAN BE READILY WORKED INTO ALL PARTS OF THE FORMS AND AROUND EMBEDDED ITEMS WITHOUT SEGREGATION OF MATERIALS OR ACCUMULATION OF FREE WATER ON THE SURFACE, EXCEPT AS MAY BE SPECIFIED FOR SPECIAL FINISHES. SLUMP AS MEASURED IN ACCORDANCE WITH ASTM C143, LATEST, SHALL BE AS FOLLOWS:
4000 PSI: NOT LESS THAN 1-1/2" AND NOT MORE THAN 3-1/2".
3000 PSI: NOT LESS THAN 2" AND NOT MORE THAN 5".

CONCRETE JOINTING: CONCRETE JOINTING AND JOINT LAYOUT SHALL BE IN ACCORDANCE WITH ACI 330 UNLESS OTHERWISE SHOWN BY DESIGN DETAIL.
CONCRETE JOINT MATERIAL: NOMAFLEX SEMI-RIGID CLOSED CELL POLYPROPYLENE FOAM AS MANUFACTURED BY NOMACO, INC., 501 INNOVATIVE WAY, TEBRUON, NC 27587 877-291-1157 www.nomaco.com, OR APPROVED OTHER.

2. REINFORCEMENT:
REINFORCING STEEL: ASTM A615, GRADE 60
WELDED WIRE FABRIC: ASTM A185
UNLESS OTHERWISE NOTED ON DESIGN PLANS, MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS:
FOOTINGS: 3"
COLUMNS AND PEDESTALS: 2"
SLABS ON GRADE: 2" FROM TOP
ALL REINFORCEMENT SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND AS SHOWN ON PLANS OF CONCRETE.
UNLESS OTHERWISE NOTED, SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE AS FOLLOWS:
WELDED WIRE FABRIC: WIRE SPACING PLUS 6"
REINFORCING BARS: 48 BAR DIAMETERS
ALL HOOKS IN REINFORCING BARS SHALL BE PER ACI STANDARDS, UNLESS OTHERWISE NOTED.
DOWELS WHERE INDICATED SHALL BE PLACED AND SECURED PRIOR TO CONCRETE PLACEMENT.

3. FOUNDATIONS:
IF FOOTING ELEVATIONS INDICATED ON DESIGN PLANS OCCUR IN A DISTURBED, UNSTABLE, OR UNSUITABLE SOIL THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE NOTIFIED.

4. CONCRETE MASONRY: (DESIGN PER CURRENT EDITION ACI 530)
COMPRESSIVE STRENGTH: f'm=1500 PSI

MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES"-ACI 530.1/ASCE 6 (LATEST EDITION) EXCEPT AS MODIFIED BY REQUIREMENTS OF THE CONTRACT DOCUMENTS.

HOLLOW, LOAD-BEARING CONCRETE MASONRY UNITS: ASTM C90, TYPE II HOLLOW CONCRETE MASONRY UNITS.
AGGREGATE FOR MASONRY MORTAR: ASTM C144.
SOLID LOAD-BEARING CONCRETE MASONRY UNITS: ASTM C145.
MORTAR FOR UNIT MASONRY: ASTM C270.
GROUT FOR MASONRY: ASTM C476.
INSPECTION: IN ACCORDANCE WITH ACI 530-08 QUALITY ASSURANCE LEVEL 2.
SUBMITTALS: MATERIAL CERTIFICATIONS, PRODUCT DATA.
EXECUTION:
—ALL CUTTING OF MASONRY UNITS SHALL BE DONE WITH MOTOR DRIVEN SAW EQUIPMENT TO PROVIDE CLEAN, SHARP, UNCHIPPED EDGES.
—INSTALL DOVETAIL OR CORRUGATED WALL TIES AS NECESSARY TO SECURE LIMESTONE FACE VENEER.

5. SUPPLEMENTARY NOTES: PROVIDE ALL TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. THE STRUCTURE SHOULD NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED.

HALFF OR ANY OF ITS EMPLOYEES SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES OR SEQUENCES FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, OR ANY OTHER PERSONS PERFORMING THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

EMBEDMENT FOR EXPANSION BOLTS SHALL BE 3-1/4" MINIMUM FOR 1/4" BOLTS IN CONCRETE, 5-1/4" IN CMU/GROUTED MASONRY. HILTI KWIK BOLT 3 OR EQUAL.

EPOXY GROUT SHALL BE POWER FAST CARTRIDGE SYSTEM BY HAWK, HY150 CARTRIDGE SYSTEM (RE 500 IF HOLE IS CORED INSTEAD OF DRILLED) BY HILTI OR APPROVED EQUAL UON. EMBEDMENT SHALL BE 10 BAR DIAMETER MINIMUM, UON. HOLES SHALL BE MIN 1/4" LARGER THAN REBAR SIZE AND 1/8" LARGER THAN THREADED ROD SIZE. HOLE SHALL BE "BRUSHED OUT WITH BOTTLE BRUSH AND THEN BLOWN OUT WITH AIR USING A COMPRESSOR WITH FUNCTIONAL OIL TRAP. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.

6. ALUMINUM FABRICATIONS AND MATERIALS:
RAILING TUBE: GRADE 6061-T6 (MIN. WALL 1/8")
ALUMINUM PIPE: GRADE 6061—T6
RECTANGULAR AND SQUARE TUBE: GRADE 6063-T52 (MIN WALL 1/8")
RECTANGULAR BAR / STRAP: GRADE 6063-T52
SQUARE BAR: GRADE 6063-T52
ROUND ROD: GRADE 6063-T52
STRUCTURAL ANGLE AND CHANNEL: GRADE 6061-T6
ARCHITECTURAL ANGLE: GRADE 6063-T5
ARCHITECTURAL CHANNEL: GRADE 6063-T5
ALUMINUM SHEET AND PLATE: 6061-T6

7. ARCHITECTURAL CAST STONE: (WALL CAPS AND COPINGS)
ALL ARCHITECTURAL PRECAST MATERIALS SHALL BE MIN. 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS USING 6" x 12" CYLINDERS PER ASTM C 39-96. PRECAST CONCRETE MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C 1364 AND SHALL POSSESS UNIFORM COLOR COMPOSITION THROUGHOUT ITS MATERIAL.

8. STUCCO OVER CONCRETE MASONRY: STUCCO APPLICATION SHALL BE IN ACCORDANCE WITH THE STUCCO MANUFACTURERS ASSOCIATION (SMA) GUIDE SPECIFICATION FOR 3-COAT PORTLAND CEMENT PLASTER APPLIED TO CONCRETE MASONRY WALLS. CEMENT PLASTER SHALL BE IN ACCORDANCE WITH ASTM C926 WITH EXTERIOR BONDING AGENT IN ACCORDANCE WITH ASTM D3932. STUCCO INSTALLATION SHALL BE 1/2" TO 5/8" THICKNESS.
FINISHED SURFACE TEXTURE: SMOOTH SAND FINISH. STUCCO PAINT: FLAT ACRYLIC LATEX WITH PRIMERS AS NECESSARY. SUBMITTALS: COLOR SAMPLES AND PRODUCT DATA FOR APPROVAL PRIOR TO BEGINNING THE WORK PROCESS. ANY CONDITIONS THAT MAY CAUSE HARM OR INHIBIT STUCCO APPLICATION AND FINISH SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING THE WORK PROCESS.

halff
AMERICA
1201 NORTH BOWSER ROAD, SUITE 150
RICHARDSON, TEXAS 75081
TEL: (972) 235-3031

50% PLANS

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PROJECT TITLE

THESE DRAWINGS, PLANS, SPECIFICATIONS, THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

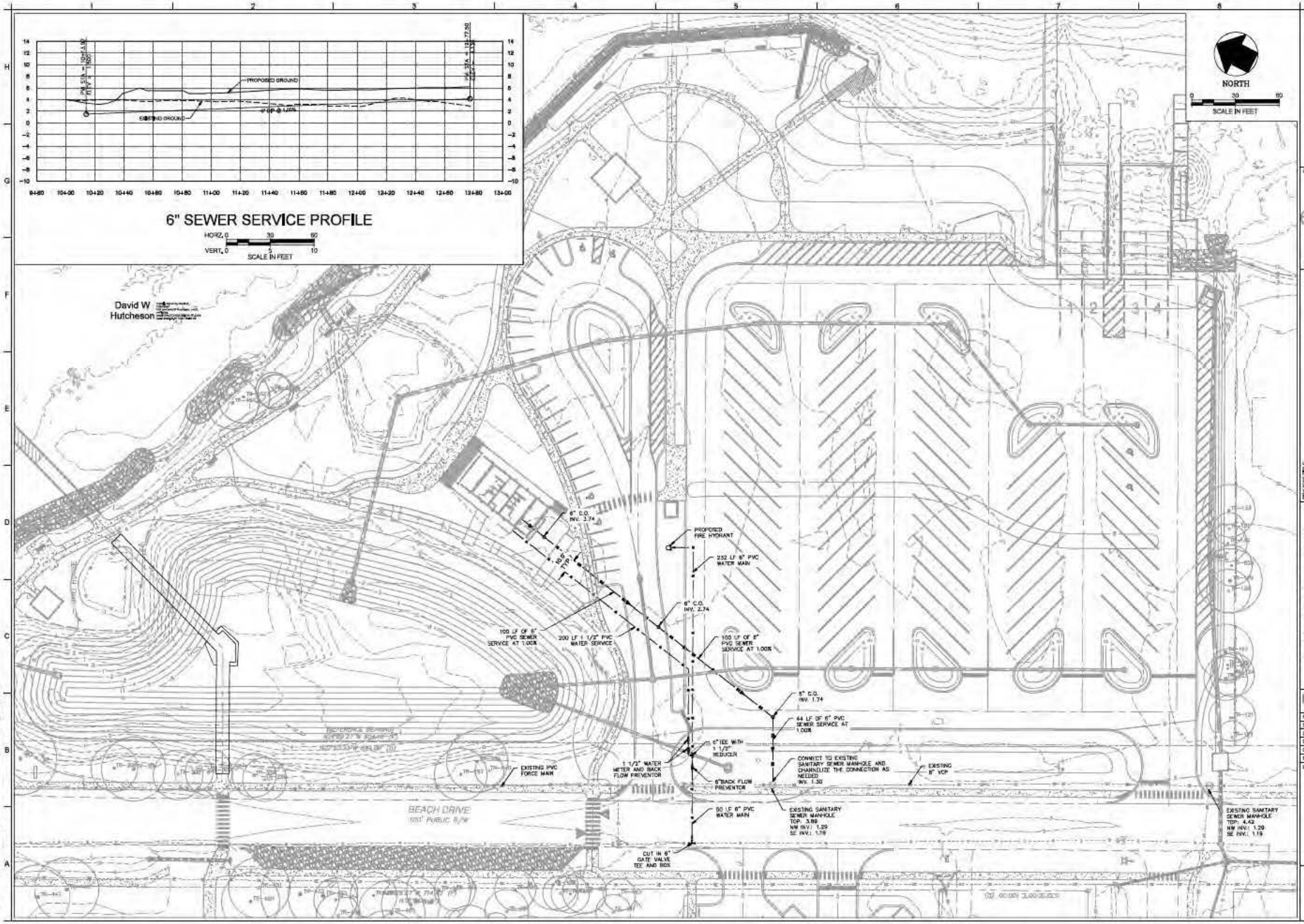
NO	DESCRIPTION	DATE

PROJECT MGR	ANTHONY
DATE	10/27/2023
DESIGNED	JR
DRAWN	MMT
CHECKED	CMH
RELEASED	CMH
SHEET TITLE	

CONSTRUCTION DETAILS

C11.2

SHEET 5 OF X



halff
2300 GLENBROOK DRIVE, SUITE 100
FAX (817) 750-4493

SEAL

60% PLANS

ENGINEER

JOE'S BAYOU RECREATION AREA IMPROVEMENTS
OKALOOSA COUNTY, FL

PROJECT TITLE

PRELIMINARY DRAWINGS. THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

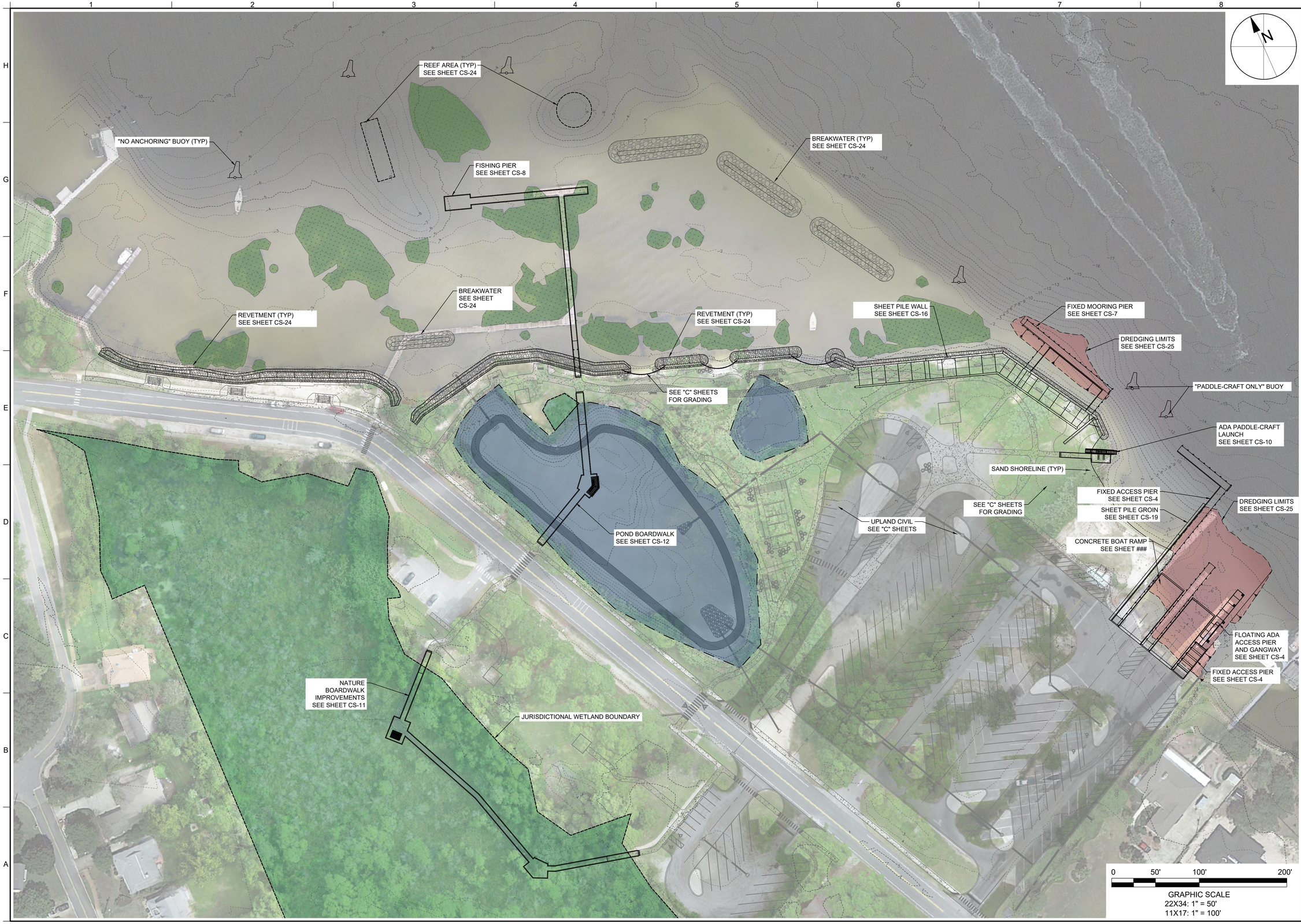
PROJECT NO	10119400
DATE	10/4/2023
DESIGNED	JH
DRAWN	RMT
CHECKED	DWH
REVIEWED	DWH

SHEET TITLE

UTILITY PLAN

C12

SHEET X OF X



TAYLOR
ENGINEERING, INC.
4300 LEGENDARY DRIVE
SUITE C246
DESTIN, FLORIDA 32541
(850) 460-7040
REGISTRY # 4815

SEAL

ENG

PROJECT TITLE

JOES BAYOU RECREATION AREA
IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

Call 811 before you dig.

PROJECT NO	C2021-045
DATE	MAY 2026
DESIGNED	DG
DRAWN	AF
CHECKED	CHECKBY
REVIEWED	REVBY

SHEET TITLE

WATERFRONT
STRUCTURES
OVERVIEW

CS-1

PETER JANSEN, 5/14/2026 5:12:33 PM, X:\sys\Projects\c2021-045_JoeBayou\Construction\c2021-045-C-Waterfront Structures Overview.dwg

TAYLOR ENGINEERING, INC.
4300 LEGENDARY DRIVE
SUITE C246
DESTIN, FLORIDA 32541
(850) 460-7040
REGISTRY # 4815

SEAL

ENG

PROJECT TITLE

JOES BAYOU RECREATION AREA
IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

PRELIMINARY DRAWINGS; THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

Call 811 before you dig.

PROJECT NO	C2021-045
DATE	JULY 2026
DESIGNED	
DRAWN	
CHECKED	CHECKBY
REVIEWED	REVBY

SHEET TITLE

WATERFRONT STRUCTURES OVERVIEW

MELISSA ZAKALA-DOWNS, 7/7/2026 10:04:56 AM, X:\sys\Projects\c2021-045_JoeBayou\Permit\Harbor Board\c2021-045_HarborBoardReview_JoesBayouExtents.dwg

(B2) "NO ANCHORING" BUOY
N: 519406
E: 1340287

(B2) "NO ANCHORING" BUOY
N: 519336
E: 1340454

REEF AREA
N: 519349
E: 1340298
20'
N: 519351
E: 1340278
70'
N: 519282
E: 1340270
N: 519279
E: 1340289

REEF AREA
N: 519266
E: 1340507
Ø40'

(B2) "NO ANCHORING" BUOY
N: 519352
E: 1340122
25'
RIPARIAN
25' RIPARIAN OFFSET

SOLAR NAVIGATION LIGHT

FISHING PIER EXTENSION
165'
102'
62'
11'
16'
8'
3'
30'

BREAKWATER (TYP)
115'

200' MEAN HIGH WATER OFFSET

200'
200'
200'
200'
222'
184'
200'
206'
214'
200'

PIER REPLACEMENT
6'
200'

EXISTING SEAGRASS (TYP)

BREAKWATER

MEAN HIGH WATER

PIER EXTENSION
6'

RIPRAP SHORE PROTECTION (TYP)

290 LF PIER TO BE DEMOLISHED

WETLAND

WETLAND

EXISTING POND

N

0 50' 100'
SCALE: 1" = 50'

DRAFT

SEAL

DUNCAN GREER P.E.#83308

DATE

PROJECT C2021-045
DRAWN BY
SHEET
DATE JULY 2026

MEAN HIGH WATER OFFSET AT FISHING PIER
JOES BAYOU RECREATION AREA IMPROVEMENT PROJECT
CITY OF DESTIN, FLORIDA

TAYLOR ENGINEERING INC.
4300 LEGENDARY DRIVE SUITE C246
DESTIN, FLORIDA 32541
REGISTRY # 4815

MELISSA ZAKALA-DOWNS X:\SYS\PROJECTS\C2021-045_JOEBAYOU\PERMIT\HARBOR BOARD\C2021-045_HARBORBOARDREVIEW_MHWOFFSET.DWG 7/7/2026 8:53:27 AM

Community Development
Planning and Zoning Division

4100 Indian Bayou Trail | Destin, FL 32541 | Phone: 850-654-1119 | Email: planning@cityofdestin.com

May 27, 2026

Subject: Notification of Development Project: 800, 820, 825, & 840 Beach Drive;
Minor Deviation – Joe's Bayou Recreational Area Improvements
City of Destin Project Number: PZ-2026-56

Dear Property Owner:

The purpose of this letter is to notify you that the Planning Division has received an application for a minor deviation to a 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.

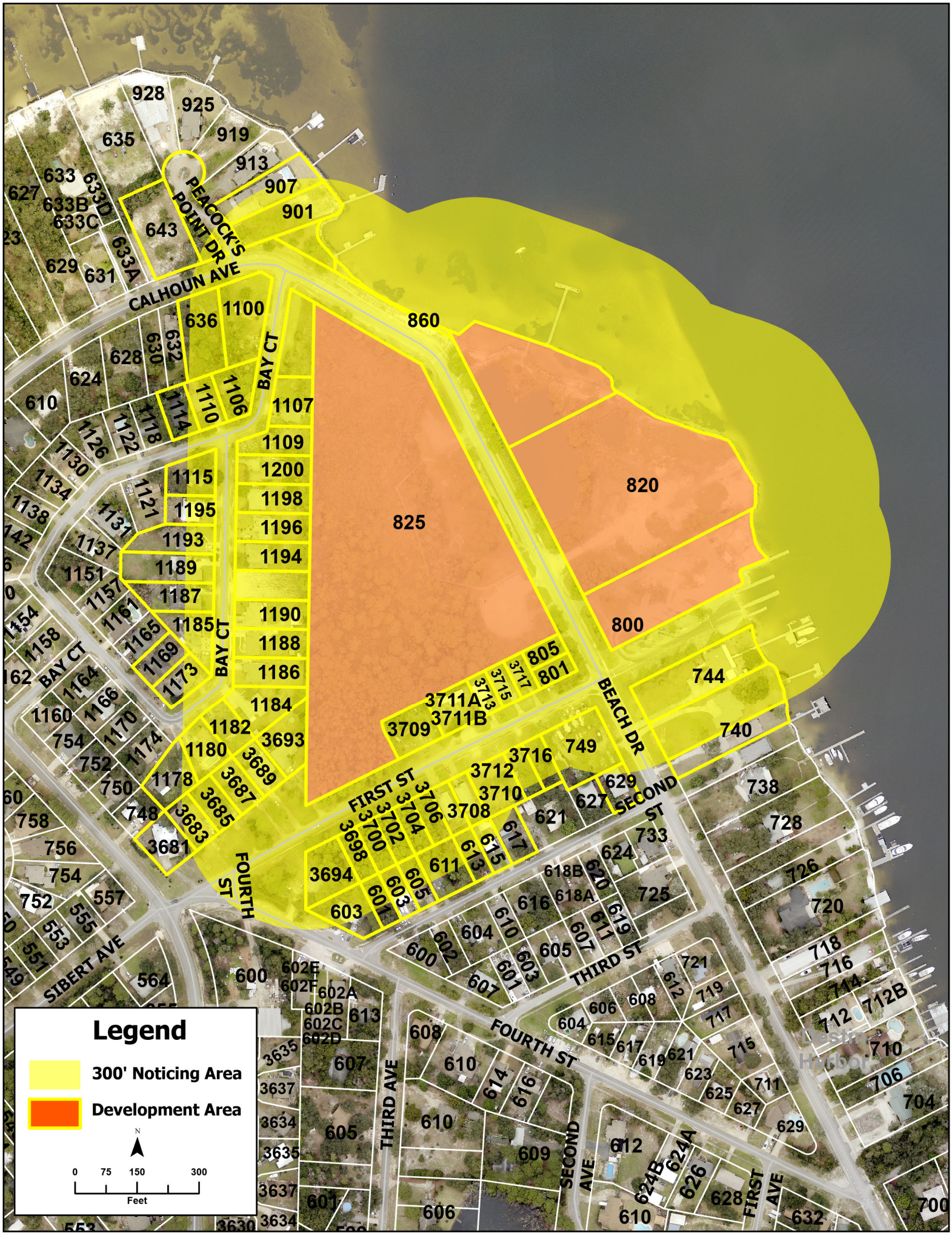
1.	Name of Owner:	City of Destin
2.	Name of Agent:	Halff Associates Inc.
3.	Address of Project:	800, 820, 825, & 840 Beach Drive
4.	Parcel ID Number:	00-2S-22-1360-0020-0150, 00-2S-22-1360-0020-0070, 00-2S-22-1360-0010-0010, 00-2S-22-1360-0020-0010
5.	Project Description:	Site improvements consist of reconstruction of the existing parking facility, public restroom, and boat launch. Additional improvements include retrofitting the existing stormwater management facility on site and adding a stormwater conveyance system throughout the site. There will also be proposed paths throughout the site for pedestrian use. Details, including artist renderings of these improvements can be found at https://www.joesbayoudestin.com/.
6.	Location Map:	Please refer to the back of this letter.
7.	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: Tina Deater, Community Development Director
Planning Division
Project File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City of Destin
Public Notice
for
Proposed Development
Minor Deviation
Project PZ-2026-56
Authorized Agent: Halff Associates, Inc.
Agent's Phone Number: 850-848-9420
Project Plans can be
requested via the City Clerk at
850-837-4242 or at
www.cityofdestin.com

BEACH DR
FIRST ST

AFFIDAVIT
POSTING OF PROPERTY

BEFORE ME, the undersigned authority, personally appeared: Lisa A. Firth,

the owner and/or authorized agent of the following described property: Joes Bayou

Project PZ2026-56 -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.

Lisa Ann Firth
Signed Name of Owner/Agent

Lisa Ann Firth
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 20 day of July, 2026,

By: Sherry L Burney
(Print name)

Personally known ✓ OR Produced Identification _____

Sherry L Burney
Notary Signature

Seal:

SHERRY L. BURNEY
Notary Public-State of Florida
Commission # HH 519552
My Commission Expires
June 22, 2028