AGENDA
HARBOR COMMUNITY REDEVELOPMENT AGENCY
ADVISORY COMMITTEE
WEDNESDAY, OCTOBER 14, 2020
5:30 PM
DESTIN CITY HALL ANNEX COUNCIL CHAMBERS

1. **CALL TO ORDER**
2. **ROLL CALL/PLEDGE OF ALLEGIANCE**
3. **APPROVAL OF MINUTES**
   - **A) June 10, 2020**
4. **OLD BUSINESS**
   - **A) FDOT Median Landscape Project**
5. **NEW BUSINESS**
   - **A) Harbor Stormwater Infrastructure – Michael Burgess, Public Services Director**
   - **B) FY21 Work Plan**
6. **COMMITTEE MEMBER COMMENTS/QUESTIONS**
7. **PUBLIC COMMENTS**
8. **NEXT MEETING DATE: TBD**
9. **ADJOURNMENT**

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)

MINUTES
HARBOR COMMUNITY REDEVELOPMENT AGENCY
ADVISORY COMMITTEE MEETING
JUNE 10, 2020 - 5:30 PM
DESTIN CITY HALL BOARDROOM

1. CALL TO ORDER:

Vice Chairman Green called the meeting to order at 5:30 p.m. on Wednesday, June 10, 2020 in the Destin City Hall Board Room.

2. ROLL CALL:

HCRA-AC Members:

Present	**Absent**	**Staff Present**
James Green	Mike Buckingham	Kim Montgomery, Deputy City Clerk
Casey Jones		Traci Goodhart, Planner
Sandy Trammell		Lauren Witt, Principal Planner
Mike Raim		Louis Zunguze CD Director
Barbara Mizell		James Lauria, IT Specialist
Jan Best		

3. MINUTES FOR APRROVAL: March 11, 2020

Motion by Committee member Raim, seconded by Committee member Trammell, the members approved the March 11, 2020 minutes as written with a 6-0 vote.

4. OLD BUSINESS:

- **Sunshine and Public Records Refresher**

The City Attorney informed the members he will make this an annual presentation of the Sunshine and Public Records Laws starting in November after the new members are appointed. However, since its been a while and with the Covid issues, staff felt that a refresher would be a good idea. The three categories are:

- Emails
- Text Messages
- Social Media

He explained that in an effort to protect them and keep their private email accounts, private. The city has issued all board and committee members @cityofdestin.com email addresses. This way all city related business conducted through their city issued email will be captured. Additionally, any emails that may pertain to city business sent out or received through their personal accounts should be forwarded to their city email address to be captured and searchable through the city email server. Explaining further that

they are subjected to the public records law and so any communication that deals with city business is a public record and includes text messages and social media comments.

- **FY-20 Work Plan Items:**

  Mrs. Goodhart welcomed the members back and explained the items that have been completed are:

  - Royal Melvin Heritage Park

  Items that are continued are:

  - Harbor Parking
  - Improved Harbor Regulations
  - CRA Master Plan Update – Staff is currently working on this item.

The following workplan items submitted to staff for 2019 to carry over to the 2020 Work Plan are:

- Harbor Stormwater Mitigation - Trammell
- Harbor Median Landscaping Plan - Buckingham
- Feral Cat Population – Mizell
- Improved Harbor Parking – Green
- Improved Harbor Regulations - Best

Staff asked the members to focus on items of interest they would like to work on for 2020 noting that the other work plan are still active and they can have as many as they want.

Mr. Zunguze explained to the members that their workplans are fluid in nature, and there will be other active projects that will cut across theirs. Such as the City is beginning to work on the Stormwater Master Plan and there are projects that will be work going on whether this Committee has identified them identified and specialized them. And staff will provide them with updates as necessary. Such as the intersection improvement for 98 and Stahlman Ave.

A consensus from the members was the following to prioritize for the 2020 year:

- Harbor Parking
- Harbor Stormwater Mitigation
- Improved Harbor Regulations
- Pedestrian Safety

- **FDOT Median Landscaping**

Mrs. Goodhart explained to the members that on May 4th Council expressed their intent to write a letter of support to the FDOT for the improved median landscaping and this committee's preference of plant species based on the types presented to Council by FDOT.

The members briefly discussed the species that were selected and made comments. The consensus was for the Crepe Myrtles that are present should stay as long as they're not hacked every year. No to crown grass and jasmine species selected as they require more water and Committee member Trammell suggested choosing the dune sunflowers as a good alternative to the medians since they require very little water and maintenance and would help mitigate the expense for the landscape contracts. Also, no to Oak Trees in the center medians because of the damage they can do

to the roadway; maybe just at the side streets.

Committee member Green suggested the large Ligustrums as a good alternative as they stay green all year round.

Committee member Raim spoke of how beautiful the Crepe Myrtles are that are currently in the medians that do not require any trimming. They also tend to break apart if hit by automobiles. Whereas Oaks when hit, automobiles tend to wrap around them cause more damage to the occupants.

5. NEW BUSINESS:

- **Harbor CRA Master Plan Update**

Mrs. Goodhart reminded the members at their last meeting in March they suggested for staff to start reviewing the Harbor CRA Master Plan and find areas that need updating. Therefore, staff working together to find out what projects have been completed in the Harbor CRA District from inception and compare them with what is in the current Master Plan. Once they are able to make those comparisons, they will know where the it stands and be able to determine what needs to be carried over to the Future Master Plan.

- **Member Comments**

Vice Chairman Green thanked the members for attending the meeting. He also spoke of how glad he is to see the interest in harbor parking situation since the city is still in such a deficit.

6. DIRECTORS REPORT:

Mrs. Witt informed the members that now that they have their city email addresses, staff will be contacting them and they will be receiving their agenda packages thru that process prior to their next meeting.

- **Next meeting: July 8, 2020**

7. ADJOURNMENT:

Having no further business at this time, the meeting was adjourned at 6:00 PM.

Adopted and approved this _____day of _____ 2020.

_____ _____

Mike Buckingham, Chairman Kim Montgomery, Deputy City Clerk

ITEM # 2020-2875

CITY OF DESTIN – COMMUNITY DEVELOPMENT

AGENDA ITEM

MEETING DATE: October 14, 2020
BOARD/COMMITTEE: Harbor Community Redevelopment Agency Advisory Committee
TYPE OF AGENDA ITEM: Presentation

TO: Harbor Community Redevelopment Agency Advisory Committee

THRU: Louis Zunguze, Community Development Director
Kyle Bauman, City Attorney

FROM: Traci Goodhart
Daniel Butler, City Planner

DATE: October 8, 2020

SUBJECT: FDOT Median Landscape Project

I. BACKGROUND: On May 4, 2020, the City Council expressed their intent to write a Letter of Support to the Florida Department of Transportation (FDOT) for the revitalization and beautification of the City's medians from East Pass Bridge to Airport Road. The FDOT provided a list of approved plant candidates to City Council.

II. DISCUSSION: Committee member comments were provided to FDOT for consideration.

III. RECOMMENDATIONS: The FDOT Final plans have been provided for Committee review.

IV. RECOMMENDED MOTION: None

Attachments:

1. 100% Plans 44590715201_PLANS-06-LANDSCAPE

CONTRACT PLANS COMPONENTS

LANDSCAPE PLANS

STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION

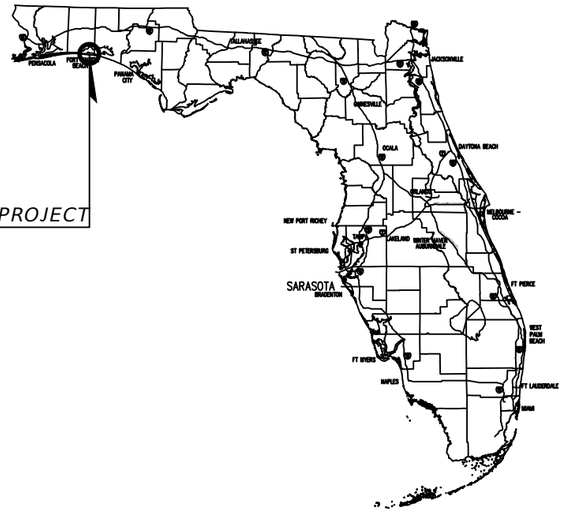
CONTRACT PLANS

FINANCIAL PROJECT ID 445907-1-52-01

OKALOOSA COUNTY (57030)

SR 30 (US 98) FROM WILLIAM T MARLER BRIDGE TO AIRPORT RD LANSDCAPING

LOCATION OF PROJECT



INDEX OF LANDSCAPE PLANS

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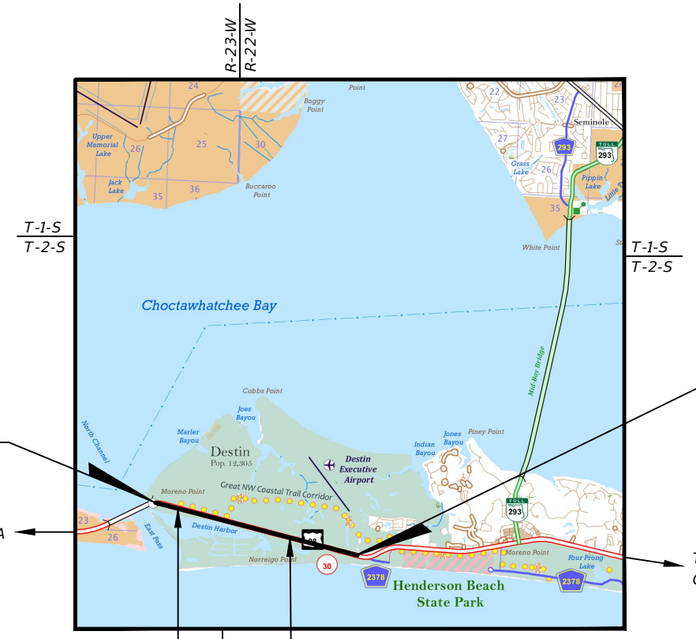
84	IRRIGATION TABULATION OF QUANTITIES
SQ-1 - SQ-6	SUMMARY OF QUANTITIES



BEGIN PROJECT
STA. 324+85
MP 17.444

TO PENSACOLA

END PROJECT
STA. 482+00
MP 20.418

TO PANAMA CITY BEACH

STATION EQUATION:
STA 339+00.00 BK
=STATION 14+13.00 AH

STATION EQUATION
STA 97+63.88 BK
=STA 422+51.04 AH

FINAL SUBMITTAL SEPTEMBER 2020

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2020-21 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

APPLICABLE IRs:

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, January 2021 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

LANDSCAPE PLANS
LANDSCAPE ARCHITECT OF RECORD:

JAMES S. GILMAN, RLA NO.: 1628
AECOM TECHNICAL SERVICES, INC.
7650 W COURTNEY CAMPBELL CSWY.
TAMPA, FL. 33607-1462
(813) 286-1711
CONTRACT NO.: CA574
VENDOR NO.: F952661922

FDOT PROJECT MANAGER:

PAM MINER / 850-638-2288

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
E3T99	21	1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

09/21/2020 11:52:01 AM

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: E3T99LS

LEAD PROJECT : 445907-1-52-01	DISTRICT : 03	COUNTY/SECTION : 57030000
PROJECT(S) : 44590715201LS	COUNTY : OKALOOSA	

0002 SUMMARY OF LANDSCAPE / PERIPHERAL

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	44590715201LS	QUANTITY TOTAL
		0580- 1- 1	LANDSCAPE COMPLETE- SMALL PLANTS 44590715201LS	LS	1.000	1.000
		0580- 1- 2	LANDSCAPE COMPLETE- LARGE PLANTS 44590715201LS	LS	1.000	1.000

NOTE: 999-2 LUMP SUM CONTRACT, ALL OTHER PAY ITEM NUMBERS SHOWN IN CONTRACT PLANS ARE PROVIDED ONLY FOR THE PURPOSE OF DESCRIBING THE WORK TO BE PERFORMED, PAY ITEM DESCRIPTIONS ARE FOUND IN THE DEPARTMENT'S BASIS OF ESTIMATES MANUAL,

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

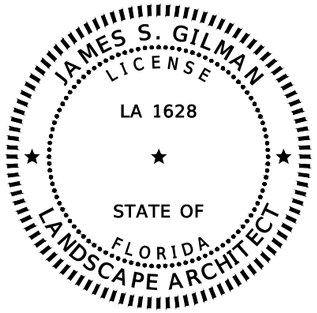
James S. Gilman, RLA
LA# 1628
AECOM Technical Services, Inc
7650 West Courtney Campbell Causeway
Tampa, FL 33607-1462

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

SUMMARY OF PAY ITEMS

SHEET NO. 2



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

AECOM Technical Services, Inc
7650 West Courtney Campbell Causeway
Tampa, FL 33607-1462
James S. Gilman, RLA No. 1628

THE ABOVE NAMED LANDSCAPE ARCHITECT SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G10-11.011, F.A.C.

SHEET NUMBER	SHEET DESCRIPTION
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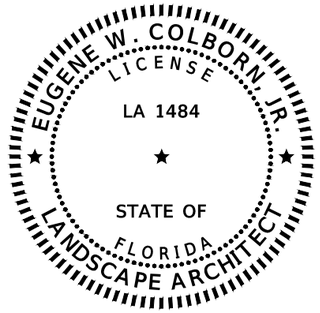
80 - 83	TABULATION OF QUANTITIES
SQ-4 - SQ-6	SUMMARY OF QUANTITIES



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Colborn Design Group, Inc.
11628 Somerset Avenue
Princess Anne, MD 21853
Eugene W. Colborn, Jr., RLA No. 1484

THE ABOVE NAMED LANDSCAPE ARCHITECT SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G10-11.011, F.A.C.

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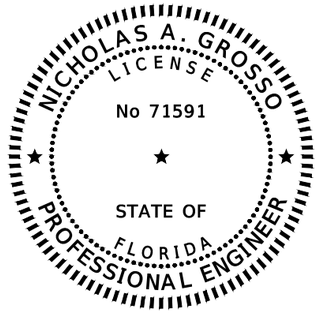

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ON THE DATE ADJACENT TO THE SEAL

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Chipola Engineering Group, Inc.
1695 Metropolitan Circle, STE. 2
Tallahassee, Florida 32308
Nicholas A. Grosso, P.E. No. 71591

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NUMBER	SHEET DESCRIPTION
2	SIGNATURE SHEET
78	STORMWATER POLLUTION PREVENTION PLAN
79	TEMPORARY TRAFFIC CONTROL PLAN
SQ-1 - SQ-3	SUMMARY OF QUANTITIES

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

James S. Gilman, RLA
LA# 1628
AECOM Technical Services, Inc
7650 West Courtney Campbell Causeway
Tampa, FL 33607-1462

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

SIGNATURE SHEET

SHEET NO. 3

PROJECT NOTES:

1. THIS PROJECT IS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM NAD 1983/99 HORIZONTAL DATUM. THE VERTICAL DATUM IS BASED ON NAVD 1988.

2. NOTIFY THE ENGINEER AND DISTRICT LANDSCAPE ARCHITECT A MINIMUM OF 5 BUSINESS DAYS PRIOR TO DELIVERY OF PLANT MATERIAL SO A REPRESENTATIVE MAY BE PRESENT TO VERIFY THAT PLANT MATERIAL MEETS PROJECT REQUIREMENTS. AFTER INITIAL ACCEPTANCE, THE CONTRACTOR IS RESPONSIBLE FOR THE HEALTH AND MAINTENANCE OF ALL PLANTS DURING THE INSTALLATION AND ESTABLISHMENT PERIODS. MAINTENANCE SHALL INCLUDE BUT IS NOT LIMITED TO REPLACEMENT, PRUNING, WATERING, FERTILIZATION, AND PEST AND DISEASE MANAGEMENT. MAINTAIN ALL PLANT MATERIAL TO THE ORIGINAL STANDARDS.

3. ADJUST LANDSCAPE MATERIAL AND ASSOCIATED DEVICES IN THE FIELD TO AVOID CONFLICTS WITH ANY PROPOSED OR EXISTING TO REMAIN STRUCTURES OR REGULATORY REQUIREMENTS, INCLUDING BUT NOT LIMITED TO UTILITY STRUCTURES, DRAINAGE STRUCTURES, DITCHES, UNDERDRAINS, DITCH BLOCKS, STORM WATER MANAGEMENT FACILITIES, ITS INFRASTRUCTURE (SUCH AS CONDUIT, ACCESS VAULTS, ETC.), DRAINAGE DISCHARGE PATHS, TRAFFIC SIGNAGE (SUCH AS SLIP BASE SUPPORTS, DIRECTIONAL GANTRIES, MAST ARM ASSEMBLIES, ETC), LIMITS OF CLEAR SIGHT, CLEAR ZONES, OUTDOOR ADVERTISING VIEW ZONES, AND LIGHTING AND THEIR APPURTENANCES. DO NOT KNOWINGLY PLACE THE PROPOSED IMPROVEMENTS IF A CONFLICT EXISTS. ANY COSTS TO REMOVE AND/OR REPAIR AND/OR RELOCATE WORK PLACED THAT HAS NOT BEEN APPROVED IN WRITING BY THE ENGINEER TO BE AT THE CONTRACTOR'S EXPENSE.

4. IMMEDIATELY NOTIFY THE ENGINEER AND DISTRICT LANDSCAPE ARCHITECT OF ANY UNFORESEEN SITE CONDITIONS (OBSTRUCTIONS, COMPACTED SOIL/SUBGRADE, POOR DRAINAGE, UTILITY AND ITS INFRASTRUCTURE CONFLICTS, ETC.) PRIOR TO PROCEEDING WITH LANDSCAPE INSTALLATION. THE ENGINEER WILL REVIEW PLANT RELOCATION OR OTHER ACTION PROPOSED BY THE CONTRACTOR.

5. ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

6. COORDINATE WITH THE ADJACENT PROJECT REGARDING LANE CLOSURES AND WORK OPERATIONS (FM 414132-3-52-01, SR 30 (US 98) FROM AIRPORT RD TO THE WALTON COUNTY LINE. COORDINATE WITH THE ENGINEER FOR CONTACT INFORMATION.

UTILITY NOTES:

1. THE LOCATION OF UNDERGROUND FACILITIES SHOWN IN THE PLANS IS BASED UPON INFORMATION AVAILABLE AT THE TIME OF PLANS PREPARATION. LOCATIONS SHOWN ARE APPROXIMATE, AND THIS INFORMATION SHOULD NOT BE ASSUMED TO BE COMPREHENSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL FACILITIES INCLUDING UNDERGROUND INFRASTRUCTURE THAT IS AN INTEGRAL PART OF THE STATE HIGHWAY SYSTEM THAT WOULD NOT NORMALLY BE LOCATED THROUGH SUNSHINE 811 IN ACCORDANCE WITH THE EXEMPTION AFFORDED TO THE DEPARTMENT VIA FLORIDA STATUTE 556.105(5). LOCATES TO BE PERFORMED BY THE CONTRACTOR INCLUDE ALL NECESSARY COORDINATION WITH FDOT, ASSET MAINTENANCE CONTRACTORS, AND OTHER APPLICABLE AGENCIES.

2. THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED VV, VH, AND VVH) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

3. UTILITY OWNERS:

Company	Contact Person	Contact Number	Email Address
AT&T Corp.	Steve Hamer	(813) 888-8300 ext. 201	shamer@sdt-1.com
AT&T Florida	Rob St. Pierre	(850) 436-1701	rs364y@att.com
CenturyLink	Amber Gilson	(850) 815-3131	amber.gilson@centurylink.com
CenturyLink / Level 3 / Qwest	John Dalton	(757) 822-4285	john.dalton@centurylink.com
Cox Communications	Roger Dixon	(850) 314-8163	roger.dixon@cox.com
Destin Water Users	Monica Autrey	(850) 337-3945	mautrey@dwuinc.com
Gulf Power Company (Distribution)	Chad Swails	(850) 429-2446	chad.swails@nexteraenergy.com
Okaloosa County Information Technology	Jason Snyder	(850) 651-7570	jsnyder@myokaloosa.com
Okaloosa County Signal System	Randy Showers	(850) 609-6181	rshowers@myokaloosa.com
Okaloosa Gas District	Lars Sullivan	(850) 729-4870	larssullivan@okaloosagas.com
Uniti Fiber (formerly Southern Light)	Kyle Hill	(850) 544-1400	james.hill@uniti.com

4. A UTILITY REPRESENTATIVE TO BE PRESENT IF LANDSCAPING REQUIRES ANY EXCAVATIONS GREATER THAN 36" DEPTH WITHIN 15 FT OF UNDERGROUND UTILITIES, TO NEGATE ANY UTILITY CONFLICTS.

5. COORDINATE WITH THE UTILITY COMPANIES DURING CONSTRUCTION. NO UTILITY IS TO BE RELOCATED. ADJUST PLANTING HORIZONTALLY, AT THE DIRECTION OF THE ENGINEER, TO NEGATE ANY UTILITY CONFLICTS.

6. REPAIR FIBER CABLE DAMAGE
IN THE EVENT OF FIBER CABLE DAMAGE, IMMEDIATELY REPAIR FIBER CABLE BY REMOVING LOCAL SLACK AND ADDING A FUSION SPLICE IN THE LOCATION OF THE DAMAGE. FULL DEPARTMENT TEST PROCEDURES (SEE JANUARY 2019 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 633) SHALL BE FOLLOWED FOR THE ACCEPTANCE OF THE REPAIRED FIBER CABLE. ONCE REPAIRED, FULL REVIEW OF THE EXISTING FIBER NETWORK AND FACILITY SHALL BE COMPLETE, AND A PERMANENT SPLICE PLAN SHALL BE PRESENTED TO THE ITS PROGRAM MANAGER FOR APPROVAL. THE PERMANENT SPLICE PLAN SHALL BE A MINIMUM OF 10,000' OF REPLACEMENT FIBER CABLE AND MEET DB LOSS GUIDANCE IN ACCORDANCE WITH DEPARTMENT SPLICING SPECIFICATION (SEE JANUARY 2019 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 633). THE PERMANENT SPLICE PLAN SHALL ALSO PROVIDE FOR ACCESS TO CABINETS, PULL BOXES, HUBS, ETC., AND AN INTEGRATION PLAN WITH SCHEDULE FOR ALL DEVICES THAT WILL BE AFFECTED WITH THE PERMANENT SPLICE REPLACEMENT. THE NEW FIBER CABLE SHALL BE APPROVED THROUGH DEPARTMENT REVIEW SPECIFICATIONS. THE CONTRACTOR'S APPROVED ITS ENGINEER MAY ADJUST THE 10,000' MINIMUM SPECIFICATION BASED UPON EVALUATION OF ADJACENT EXISTING FIBER SPLICES. AT NO TIME SHALL A FULL CONDUCTOR FIBER SPLICE BE ALLOWED FOR PERMANENT PLACEMENT THAT IS CLOSER THAN 10,000' TO ANOTHER FULL CONDUCTOR FIBER SPLICE. ALLOWANCE OF ADDITIONAL FUSION SPLICES SHALL BE AT THE DISCRETION OF THE ITS PROGRAM MANAGER.

7. PREFERRED PLANT MATERIAL SET-BACKS*
(TO CENTER OF PLANT)

5 FT	FROM UNDERGROUND UTILITIES TO TREES.
15 FT	FROM ITS INFRASTRUCTURE TO TREES.
15 FT	OVERHEAD UTILITY LINE SETBACK FOR UNDERSTORY TREES.
30 FT	OVERHEAD UTILITY LINE SETBACK FOR CANOPY TREES.
*	EXCEPTIONS TO OFFSETS FROM WATER AND/OR SANITARY SEWER APPROVED BY DESTIN WATER USERS WITH USE OF ROOT PROTECTION FABRIC (BIOBARRIER).

LANDSCAPE NOTES:

1. WORK WITHIN 15 FT OF EXISTING TREES TO REMAIN SHALL BE PERFORMED BY HAND. ANY DISTURBED ROOTS SHALL BE SEVERED USING CLEAN, SHARP TOOLS.

2. PROVIDE THE FOLLOWING SUBMITTALS AND NOTIFICATIONS AS A MINIMUM FOR BIDDING PURPOSES:

   A. PLANT MATERIAL DELIVERY
   B. UNFORESEEN SITE CONDITIONS
   C. PRODUCT SAMPLES - SUBMIT PRODUCT SAMPLES AND DATA SHEETS FOR ALL PROPOSED MATERIALS, INCLUDING BUT NOT LIMITED TO PLANT MATERIAL, STAKING AND BRACING KITS, MYCORRHIZAL SOIL INOCULATE, FERTILIZER, MULCH, CONCRETE PAVERS, LIMESTONE BOULDERS, BIOBARRIER, TOPSOIL, AND "BLENDED SOIL" FOR REVIEW AND WRITTEN APPROVAL BY THE ENGINEER PRIOR TO DELIVERY.
   D. FIELD-GROWN TREE CERTIFICATIONS
   E. SOIL SAMPLE LOCATIONS AND PROPOSED TESTING LABORATORY.
   F. TOPSOIL ANALYSIS, RECOMMENDATIONS, AND AMENDMENTS.
   G. CERTIFIED ARBORIST CREDENTIALS - SUBMIT CERTIFIED ARBORIST CREDENTIALS FOR REVIEW AND WRITTEN APPROVAL TO THE ENGINEER. SEE ESTABLISHMENT PERIOD MAINTENANCE PLAN NOTES FOR ADDITIONAL INFORMATION.
   H. CONCRETE PAVERS MOCK-UP IN FIELD REVIEW

3. CONTAINER GROWN PLANTS: A MINIMUM OF 80% OF THE CONTAINER ROOTBALL MUST BE BOUND BY THE ROOT SYSTEM. ENCIRCLING OR "RING" ROOTS ARE PROHIBITED.

4. FIELD GROWN TREES MUST BE TAGGED AND CERTIFIED BY THE GROWER TO BE HARDENED A MINIMUM OF 60 DAYS AFTER DIGGING, PRIOR TO SHIPPING. PRESENT CERTIFICATION TO THE ENGINEER FOR REVIEW AND WRITTEN APPROVAL. FIELD GROWN TREES WITHOUT THIS CERTIFICATION WILL NOT BE PERMITTED.

5. SOD SHALL BE 'EMPIRE' ZOYSIA (ZOYSIA JAPONICA 'EMPIRE' SOD). SHALL BE DELIVERED IN 12" X 24" RECTANGLES, WEED AND WEED SEED FREE. SOD SHALL BE LAID WITH SEAMS BUTTED TIGHTLY TOGETHER AND WITH SEAMS STAGGERED FROM ONE ROW TO THE NEXT ROW.

   A. PREPARE AREA DIRECTLY ADJACENT TO CURB PER PLANTING AREA PREPARATION NOTES AND DETAILS.
   B. SOD STRIPS BETWEEN CURB AND MULCHED PLANTING BEDS SHALL BE 5 FT. WIDE UNLESS OTHERWISE NOTED IN THE PLANS.

6. AS PART OF THE CONTRACTOR'S RESPONSIBILITY TO ENSURE LONG TERM HEALTH AND VIABILITY OF PLANT MATERIAL, DETERMINE, AT A MINIMUM, SITE CONDITIONS, PLANT MATERIAL AVAILABILITY, SOIL ANALYSIS/AMENDMENTS, FERTILIZER APPLICATION RATES, MYCORRHIZAL SOIL INOCULATE APPLICATION RATES AND WATERING REQUIREMENTS:

   A. ASSUME THE FOLLOWING CONCERNING SOIL ANALYSIS, RECOMMENDATIONS, AND AMENDMENTS:
   COLLECT SOIL SAMPLES AT A MINIMUM OF 20 PLANTING LOCATIONS DISTRIBUTED EVENLY THROUGHOUT THE PROJECT. SUBMIT TESTING LOCATIONS TO THE ENGINEER FOR WRITTEN APPROVAL PRIOR TO TAKING SAMPLES. SEND SAMPLES TO AN AGRONOMIC SOILS TESTING LABORATORY APPROVED BY THE ENGINEER, STATING PROPOSED PLANT MATERIAL AT EACH TEST LOCATION. ANALYSIS TO INCLUDE, AT A MINIMUM, PH, NPK, ORGANIC CONTENT, TEXTURE, AND SOLUBLE SALTS. SUBMIT RESULTS/RECOMMENDATIONS AND PROPOSED FERTILIZER ANALYSIS/AMENDMENTS TO THE ENGINEER. COSTS OF FERTILIZER AND AMENDMENTS TO BE INCLUDED IN THE LUMP SUM COST OF THE PROJECT.

   B. ASSUME THE FOLLOWING CONCERNING FERTILIZER. FOR INITIAL INSTALLATION OF TREES, SHRUBS/ORNAMENTAL GRASSES, AND GROUNDCOVERS:

      a. FERTILIZER IS ASSUMED TO BE CONTROLLED RELEASE FERTILIZER WITH A 15-9-12 ANALYSIS AND CONTAINING TRACE ELEMENTS MG, S, B, CU, FE, MN, MO, AND ZN. FERTILIZER GRANULES TO BE COMPOSED OF DRY NUTRIENTS ENCAPSULATED IN MULTIPLE LAYERS OF POLYMERIC RESIN.

      b. SOURCE FOR N TO BE RESIN-COATED UREA OR RESIN-COATED AMMONIUM SALTS. MN, ZN, AND CU TO BE SULFATE FORMS. FE TO BE GRANULAR CHELATED IRON.

      c. THE FOLLOWING APPLICATION RATES ARE PROVIDED AS A RECOMMENDATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE APPROPRIATE FERTILIZER/AMENDMENTS TO ENSURE PROPER ESTABLISHMENT AND VIGOR OF PLANT MATERIAL:

      0.5 OZ PER EA 4" POT OR PLANT LINER 1.0 OZ PER EA 1 GALLON CONTAINER
      3.0 OZ PER EA 3 GALLON CONTAINER6.0 OZ PER EA 7 GALLON CONTAINER
      9.0 OZ PER EA 15 GALLON CONTAINER 16.0 OZ PER EA 30 GALLON CONTAINER
      24.0 OZ PER EA 45 GALLON CONTAINER 32.0 OZ PER EA 65 GALLON CONTAINER
      48.0 OZ PER EA 100 GALLON CONTAINER 64.0 OZ PER EA 200 GALLON CONTAINER
      96.0 OZ PER EA 300 GALLON CONTAINER
      FOR GRASSING AND SOD AREAS: APPLY 6 LBS/1000SF.

      d. FOR INITIAL INSTALLATION OF SOD: FERTILIZER IS ASSUMED TO BE CONTROLLED RELEASE FERTILIZER WITH A 12-4-8 ANALYSIS.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE NOTES

SHEET NO. 4

C. THE FOLLOWING WATERING SCHEDULE IS PROVIDED AS A RECOMMENDATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SUFFICIENT WATER TO ENSURE PROPER ESTABLISHMENT AND VIGOR OF PLANT MATERIAL.

SIZE OF NURSERY STOCK:	WATERING SCHEDULE
1/3/7 GAL CONTAINER:	DAILY FOR 2 WEEKS; EVERY OTHER DAY FOR 2 MONTHS; WEEKLY UNTIL ESTABLISHED
15/30 GAL CONTAINER:	DAILY FOR 1 MONTH; EVERY OTHER DAY FOR 3 MONTHS; WEEKLY UNTIL ESTABLISHED
45/65 GAL CONTAINER:	DAILY FOR 1 MONTH; EVERY OTHER DAY FOR 3 MONTHS; WEEKLY UNTIL ESTABLISHED
100/200/300 TREE:	DAILY FOR 6 WEEKS; EVERY OTHER DAY FOR 5 MONTHS; WEEKLY UNTIL ESTABLISHED
SOD:	DAILY FOR 1 WEEK; EVERY OTHER DAY FOR 2 WEEKS; 2X PER WEEK FOR 2 WEEKS

a. TREES: AT EACH IRRIGATION, APPLY WATER TO SUFFICIENTLY SOAK THE ENTIRE ROOT ZONE. DO NOT WATER IF ROOT ZONE IS WET OR SATURATED ON THE IRRIGATION DAY.

b. SHRUBS/GRASSES AND GROUNDCOVERS: AT EACH IRRIGATION, APPLY WATER TO SUFFICIENTLY SOAK THE ENTIRE ROOT ZONE. DO NOT WATER IF ROOT ZONE IS WET OR SATURATED ON THE IRRIGATION DAY.

c. SOD: AT EACH IRRIGATION, APPLY WATER TO SUFFICIENTLY SOAK 3" BELOW DEPTH OF ROOT ZONE. DO NOT WATER IF ROOT ZONE IS WET OR SATURATED ON IRRIGATION DAY.

7. PROVIDE AN IN-GROUND, PERMANENT, AUTOMATIC IRRIGATION SYSTEM IN AREAS AS SHOWN ON IRRIGATION PLANS, NOTES, AND DETAILS. SUPPLY SUFFICIENT WATER TO ALL NEWLY PLANTED AREAS. CONTACT WATER UTILITY COMPANY DESTIN WATER USERS,, MS MONICA AUTREY (850-337-3945). CONTACT ELECTRIC UTILITY COMPANY: GULF POWER, MR. CHAD SWAILS (850-244-4747).

PLANTING AREA PREPARATION NOTES

1. PLANTING AREA PREPARATION TO OCCUR AS FOLLOWS:

A. DEMOLITION/ PLANT REMOVAL

a. ALL SHRUBS WITHIN MEDIANS SHALL BE REMOVED.

b. PRIOR TO TURF REMOVAL, APPLY HERBICIDE WHERE PLANT BEDS AND SOD AREAS ARE PROPOSED. BEGIN PROCESS A MINIMUM OF 28 DAYS PRIOR TO PLANTING AS FOLLOWS: SPRAY AREA TO BE KILLED WITH GLYPHOSATE PER MANUFACTURER RECOMMENDATIONS. 7 DAYS AFTER SPRAYING, CLOSE MOW TO 1" HEIGHT. 14 DAYS AFTER CLOSE MOWING, RE-SPRAY AREA TO BE KILLED WITH GLYPHOSATE PER MANUFACTURER RECOMMENDATIONS. 7 DAYS AFTER RE-SPRAYING, PROCEED WITH TURF REMOVAL AS INSTRUCTED BELOW. PROPOSED INDIVIDUAL TREE RINGS DO NOT REQUIRE HERBICIDE APPLICATION.

c. ALL TURF WITHIN MEDIANS SHALL BE REMOVED.

d. REMOVE TREES IDENTIFIED ON PLANS FOR REMOVAL. WHERE TREES ARE TO BE REMOVED, EXTREME CARE MUST BE TAKEN TO PROTECT EXISTING UTILITIES. LOCATE AND PROTECT SHALLOW UTILITIES PRIOR TO ANY TREE REMOVAL ACTIVITIES. ROOTBALLS MUST BE HAND-DUG, AND RIPPING TRUNKS/ROOTBALLS FROM THE SOIL USING MECHANICAL MEANS IS PROHIBITED.

e. REMOVE ALL EXISTING PUMP AND WELL ASSEMBLIES WITHIN MEDIANS IN THE PROJECT LIMITS.

f. CAP ALL ABANDONED WELLS IN MEDIANS WITHIN THE PROJECT LIMITS PER NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT REQUIREMENTS.

g. EXISTING POWER DROPS, METERS, AND ELECTRICAL CONNECTIONS TO MEDIANS TO SUPPLY POWER TO PUMP/WELL ASSEMBLIES ARE TO BE PROTECTED. WIRES ARE TO BE CAPPED AND PLACED INSIDE TRAFFIC-RATED 8" VALVE BOXES FOR FUTURE USE BY OTHERS.

h. ALONG ALL CURB EDGES ADJACENT TO PLANT BEDS, EXCAVATE TO PROVIDE A 3-TO-3 ½ INCH GAP BETWEEN FINISH SOIL GRADE AND TOP OF CURB. SEE DETAILS.

i. ALONG ALL CURB EDGES ADJACENT TO TURF AREAS, EXCAVATE TO PROVIDE A 2"-2½" DIFFERENTIAL BETWEEN TOP OF EXISTING SOIL AND TOP OF CURB. SEE DETAILS AND LANDSCAPE NOTES.

B. PLACE TOPSOIL IN MEDIANS IN THE FOLLOWING AREAS:

a. OAK AREAS NOTED ON PLANS: WHERE EXISTING OAKS PLANTED OVER WATER/SANITARY SEWER LINES, GRADE TO CREATE A CROWN APROX 9" HEIGHT, RAKED SMOOTH, SEE DETAILS AND PLANS.

b. BENEATH ALL EXISTING CRAPE MYRTLE: PLACE 2" TOPSOIL, RAKED SMOOTH, SEE DETAILS AND PLANS.

c. BENEATH SOD AREAS: INSTALL AT ALL PROPOSED SOD AREAS, 2" AVERAGE DEPTH, RAKED SMOOTH, SEE DETAILS AND PLANS.

C. PLANTING OFFSET: PROVIDE A PLANTING OFFSET FROM THE EDGE OF MULLCHED PLANT BEDS OR BACK OF CURB. OFFSET FOR THE PLANT SHALL MATCH THE SPECIFIED ON-CENTER SPACING FOR THAT PLANT. SEE DETAILS.

D. LAY OUT AND STAKE LOCATIONS OF PLANTINGS TO ACCURATELY REFLECT PLANS. COORDINATE WITH THE ENGINEER TO REVIEW LAYOUT AND STAKING ON SITE. IF WOODEN STAKES ARE USED TO INDICATE TREE LOCATIONS, ADD A COLORED FLAG TO INCREASE VISIBILITY. PROVIDE A MINIMUM OF 5 BUSINESS DAYS ADVANCED NOTIFICATION OF PROPOSED INSPECTION. MAKE MODIFICATIONS AS REQUESTED BY THE ENGINEER AND OBTAIN WRITTEN APPROVAL PRIOR TO LANDSCAPE INSTALLATION.

E. EXCAVATE PLANTING PITS AS SHOWN IN DETAILS. THE DEPTH OF THE HOLE TO BE 1"-2" SHALLOWER THAN THE BOTTOM OF ROOTBALL; DIG DEEPER AROUND THE HOLE'S PERIMETER, CREATING A FIRM CENTRAL PLATEAU SO THAT EXCESS WATER WILL FLOW AWAY FROM ROOTBALL.

F. WHERE BIOBARRIER ROOT EXCLUSION FABRIC IS USED BENEATH OAKS, EXCAVATE PLANTING PITS PER DETAILS TO PROVIDE A LEVEL SURFACE FOR MINIMUM 36" X 36" BIOBARRIER FABRIC IN BOTTOM OF PLANTING PIT.

G. TO ASSURE DRAINAGE/PERCOLATION OF PLANTING PITS PRIOR TO INSTALLATION, FILL SAMPLE TREE PITS (1 IN 5) WITH WATER AND OBSERVE PERCOLATION. HOLES TO PERCOLATE IN 30 MINUTES OR LESS. BRING DISCREPANCIES TO THE ENGINEER'S ATTENTION.

H. INSTALL MYCORRHIZAL INOCULANT PER MANUFACTURER RECOMMENDATIONS.

I. FILL PLANTING PIT WITH PLANTING BACKFILL MIXTURE IN LIFTS AND TAMP LIGHTLY AROUND EACH AND EVERY PLANT. THOROUGHLY FLUSH WITH WATER AT EACH LIFT AND MAKE ADJUSTMENTS TO PROVIDE PROPERLY SET PLANT MATERIAL. INSTALL FERTILIZER PER MANUFACTURER RECOMMENDATIONS.

J. ESTABLISH FINISHED PRE-MULCHING GRADE.

K. APPLY PRE-EMERGENT HERBICIDE TO ALL INDIVIDUAL TREE RINGS, PLANT BEDS, MULCH ON GRADE AREAS, AND SOD AREAS. USE SUITABLE ACTIVE INGREDIENTS FOR CONTROL OF ANNUAL AND PERENNIAL BROADLEAF WEEDS AND GRASSES. STRICTLY ADHERE TO MANUFACTURER RECOMMENDATIONS FOR APPLICATION METHOD, TIMING AND APPLICATION RATE.

L. EVENLY SPREAD MULCH ACROSS INDIVIDUAL TREE RINGS AND PLANT BEDS TO A DEPTH OF 3".

M. SOD AREAS TO BE RAKED SMOOTH TO ESTABLISH FINISHED GRADE 2" - 2½" BELOW TOP OF CURB. ENSURE EXISTING GRADES ARE RE-ESTABLISHED. BUTT SOD PIECES TOGETHER CLOSELY AND PEG IN PLACE AS NEEDED TO NOT IMPEDE MAINTENANCE OPERATIONS. ENSURE EDGES ARE TRIMMED EVENLY AND SOD IS ROLLED TO AN EVEN FINISHED GRADE AND APPEARANCE.

N. IN AREAS WITH EXISTING CRAPE MYRTLE, ADD 2" TOPSOIL OVER EXISTING SOIL AND RAKE SMOOTH, BEING CAREFUL TO ESTABLISH CORRECT FINAL GRADE AT CURB EDGES. SEE PLANTIUNG DETAILS.

O. IN AREAS WHERE OAK TREES ARE TO BE INSTALLED, PROVIDE TOPSOIL, GRADED TO CREATE A CROWN APPROXIMATELY 9" HEIGHT AT THE CENTERLINE OF THE MEDIAN. SEE LANDSCAPE DETAILS.

2. CORRECTIVE PRUNING

A. PERFORM CORRECTIVE PRUNING ON ALL EXISTING TREES TO REMAIN WITHIN THE MEDIANS IN THE PROJECT LIMITS. PRUNING SHALL INCLUDE REMOVAL OF SUCKERS AT BASE OF TRUNKS, LIFTING OF CANOPIES TO 8 FT., AND REMOVAL OF ANY DEAD WOOD. PRUNE AS NEEDED TO ENHANCE AND MAINTAIN NATURAL SHAPE AND VIGOR AND TO REMOVE CROSS BRANCHING.

B. PRUNING TO BE PERFORMED UNDER THE SUPERVISION OF A CERTIFIED ARBORIST WITH AT LEAST 5 YEARS OF EXPERIENCE ON SIMILAR PROJECTS.

C. CRAPE MYRTLE TREES MAY BE TIP PRUNED DURING THE GROWING SEASON (CUTS THROUGH SMALLER DIAMETER BRANCHES 1 YEAR OLD OR LESS). POLLARDING (ANNUAL REMOVAL OF ALL SPROUTS) AND TOPPING (REMOVAL OF LARGE DIAMETER WOOD) ARE NOT ACCEPTABLE PRUNING METHODS.

D. PROVIDE STRUCTURAL AND AESTHETIC PRUNING TO (6) CRAPE MYRTLE TREES TO ENHANCE THE VIEW OF THE ADJACENT BILLBOARD. PERFORM PRUNING UNDER THE OBSERVATION OF THE DISTRICT LANDSCAPE ARCHITECT. SEE SHEET 21, STA. 49+40 - STA. 50+90, AND SHEET 37, STA. 469+10 - STA. 469+40.

3. TOPSOIL FOR SPREADING BENEATH SOD, CRAPE MYRTLE AND OAKS AT BIOBARRIER LOCATIONS SHALL BE SIEVED (1½" OPENING), WEED FREE TOPSOIL IMPORTED TO THE SITE, FREE OF ROCK AND DEBRIS. SUBMIT SOIL ANALYSIS RESULTS FROM AN APPROVED AGRONOMIC SOILS TESTING LABORATORY FOR A MINIMUM OF PH, ORGANIC CONTENT, SOLUBLE SALTS, AND TEXTURE WITH A STATEMENT OF SUITABILITY FOR LIVE OAK, CRAPE MYRTLE, AND ZOYSIA SOD GROWTH. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE SUITABILITY FOR GROWTH OF PROPOSED PLANT MATERIAL.

4. PLANTING BACKFILL MIXTURE FOR TREES, SHRUBS/GRASSES, AND GROUNDCOVERS TO CONSIST OF 25% COARSE SAND, 25% "BLENDED SOIL" OR EQUAL, AND 50% EXISTING SOIL. PLANTING BACKFILL MIXTURE IS SUBJECT TO THE ENGINEER'S WRITTEN APPROVAL. MIX THOROUGHLY PRIOR TO INSTALLATION ACCORDING TO THE FOLLOWING SCHEDULE:

1 GALLON:	0.003 CY (0.08 CF) COARSE SAND AND 0.003 CY (0.08 CF) "BLENDED SOIL"
3 GALLON:	0.006 CY (0.16 CF) COARSE SAND AND 0.006 CY (0.16 CF) "BLENDED SOIL"
7 GALLON:	0.015 CY (0.4 CF) COARSE SAND AND 0.015 CY (0.4 CF) "BLENDED SOIL"
15 GALLON:	0.03 CY (0.8 CF) COARSE SAND AND 0.03 CY (0.8 CF) "BLENDED SOIL"
30 GALLON:	0.06 CY (1.6 CF) COARSE SAND AND 0.06 CY (1.6 CF) "BLENDED SOIL"
45 GALLON:	0.11 CY (2.9 CF) COARSE SAND AND 0.11 CY (2.9 CF) "BLENDED SOIL"
65 GALLON:	0.17 CY (4.6 CF) COARSE SAND AND 0.17 CY (4.6 CF) "BLENDED SOIL"
100 GALLON:	0.26 CY (7.1 CF) COARSE SAND AND 0.26 CY (7.1 CF) "BLENDED SOIL"
200 GALLON:	0.88 CY (23.8 CF) COARSE SAND AND 0.88 CY (23.8 CF) "BLENDED SOIL"
300 GALLON:	1.37 CY (37 CF) COARSE SAND AND 1.37 CY (37 CF) "BLENDED SOIL"

REMOVE EXCESS SOIL FROM SITE AND DISPOSE OF IN A LAWFUL MANNER. REFER TO DETAILS FOR MINIMUM PLANTING PIT DIMENSIONS.

5. "BLENDED SOIL" (A COMPONENT OF PLANTING BACKFILL MIXTURE)

A. SHALL CONSIST OF:

1/3 MUSHROOM COMPOST OR PEAT,

1/3 COMMERCIALLY PROCESSED AND COMPOSTED COW MANURE AND

1/3 COMPOSTED BARK.

B. SEE LANDSCAPE NOTES FOR PRODUCT SAMPLE/DATA SHEET SUBMITTAL REQUIREMENTS.

6. SOD SHALL BE 'EMPIRE' ZOYSIA SOD. SOD SHALL BE SHALL BE FRESH, WEED FREE, AND DELIVERED TO THE SITE WITHIN 72 HOURS OF CUTTING. WHEN LAYING SOD, BUTT SOD PIECES TOGETHER CLOSELY AND PEG IN PLACE AS NEEDED. ENSURE EDGES ARE TRIMMED EVENLY AND SOD IS ROLLED TO AN EVEN FINISHED GRADE AND APPEARANCE. SEE DETAILS.

7. MYCORRHIZAL INOCULANT FOR PLANTING PITS

USE AND APPLY SOIL INOCULANT PER MANUFACTURER RECOMMENDATIONS TO EACH PLANTING PIT. THE INOCULANT IS TO CONTAIN BOTH ENDO AND ECTOMYCORRHIZAL INOCULANTS COMBINED WITH HUMIC ACIDS, TRICHODERMA, STIMULANTS, BENEFICIAL BACTERIA, SOLUBLE SEA KELP, YUCCA PLANT EXTRACTS, AND A WATER RETENTION GEL, AS LISTED BELOW. COST TO BE INCLUDED IN LUMP SUM PROJECT COST. SEE LANDSCAPE NOTES FOR PRODUCT SAMPLE/DATA SHEET SUBMITTAL REQUIREMENTS.

A. FOR TREES, SHRUBS/GRASSES, AND GROUNDCOVER

a. ENDOMYCORRHIZAL FUNGI (MINIMUM 12.5 PROPAGULES PER CUBIC CENTIMETER: GLOMUS MOSSEAE (2), GLOMUS INTRARADICES (2), GLOMUS FASCICULATUM (2), GLOMUS DUSSII (2), GLOMUS CLARUM (2), GLOMUS DESERTICOLA (1.25), GLOMUS MICROAGGREGATUM (1.25).)

b. ECTOMYCORRHIZAL FUNGI (MINIMUM 180,400 CFU'S PER CUBIC CENTIMETER TO INCLUDE: PISOLITHUS TINCTORIUS (155,400), RHIZOPOGON (25,000).)

c. NITROGEN FIXING, PHOSPHATE SOLUBILIZING AND GROWTH PROMOTING BACTERIA (1,000,000 CFU'S PER CUBIC CENTIMETER OF GENUS BACILLUS (BACILLUS MEGATERIUM, BACILLUS SUBTILLA, BACILLUS AMYLOLIQUEFACIENS, BACILLUS AZOTOFORMANS, BACILLUS LICHENIFORMIS, BACILLUS PUMULUS, BACILLUS FIRMUS, BACILLUS COAGULANS, GEOBACILLUS STEAROTHERMOPHILUS, PAENIBACILLUS POLYMYXA), GENUS PSEUDOMONAS (PSEUDOMONAS PUTIDA, PSEUDOMONAS FLUORESCENCE, PSEUDOMONAS AUREOFACEANS, PSEUDOMONAS. DURUM), GENUS STREPTOMYCES (STREPTOMYCES LYDICUS, STREPTOMYCES GRISEUS, STREPTOMYCES COELICOLOR).)

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DEPARTMENT OF TRANSPORTATION

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SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE NOTES

SHEET NO. 5

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d. TRICHODERMA (72,600 CFU'S PER CUBIC CENTIMETER GENUS TRICHODERMA (TRICHODERMA HAMATUM, TRICHODERMA HARZIANIUM, TRICHODERMA VIRIDE, TRICHODERMA REESEI).)

e. SEA KELP EXTRACT (10% ASCOPHYLLUM NODOSUM); YUCCA PLANT EXTRACT (4% YUCCA SCHIDIGERA); HUMIC ACIDS (21% DERIVED FROM LEONARDITE).

f. WATER RETENTION GEL, MINIMUM 29% (PARTICLE SIZE 0.8 MM TO 2.0 MM; PERCENT SOLUBLE LESS THAN 0.05%; ABSORPTION RATE 300-400 TIMES IN DISTILLED WATER).

g. ROOT PROMOTING VITAMINS (B, B2, B3, B6, B7, B12, C, K, BIOTIN, FULVIC ACID).

h. AMINO ACIDS (PROTEIN): ANIMAL AND PLANT PROTIENS.

B. FOR SOD:

a. AFTER GROUND PREPARATION AND BEFORE SOD IS PLACED, BROADCAST AT THE RATE OF 3 POUNDS PER 100 SQUARE FEET WORKED INTO THE FIRST 2 INCHES OF SOIL A COMPOUND CONTAINING:

b. MYCORRHIZAL FUNGAL INOCULATES OF DIVERSE ENDOMYCORRHIZAL (18 PROPAGULES PER CUBIC CENTIMETER: GLOMUS MOSSEAE (3.6), GLOMUS INTRARADICES (3.6), GLOMUS FASCICULATUM (3.6), GLOMUS DUSSII (1.8), GLOMUS CLARUM (1.8), GLOMUS DESERTICOLA (1.8), GLOMUS MICROAGGREGATUM (1.8).

c. NITROGEN FIXING, PHOSPHATE SOLUBILIZING AND GROWTH PROMOTING BACTERIA 353.000 CFU'S PER CUBIC CENTIMETER, (BACILLUS (10 SPECIES), PSEUDOMONAS (3 SPECIES), STREPTOMYCES (3 SPECIES)).

d. MYCORRHIZAL ENHANCER (TRICHODERMA (3 SPECIES) 30,500 COLONY FORMING UNITS PER CUBIC CENTIMETER.

e. ORGANIC BIOSTIMULANTS TO STIMULATE MICROBIAL ACTIVITY IN THE GROUND AND PROMOTE ROOT GROWTH.

f. AGRICULTURAL GRADE PLANTING GEL (5%) TO MAINTAIN MOISTURE IN THE ROOT ZONE.

8. MULCH:

A. FOR AREAS PLANTED WITH MINIMA JASMINE OR CONFEDERATE JASMINE, MULCH SHALL BE PINE BARK NUGGET FINES, ½" OR SMALLER.

B. FOR OTHER PLANT BEDS AND INDIVIDUAL TREE RINGS, MULCH SHALL BE MINI PINE BARK NUGGETS.

C. UNIFORMLY SPREAD MULCH OVER THE FULL DIAMETER OF EACH PLANTING MULCH AREA. MULCH INCLUDES INITIAL INSTALLATION (3" DEPTH) PLUS RE-MULCHING (1.5" DEPTH MINIMUM) A MINIMUM ONCE PER YEAR DURING THE ESTABLISHMENT PERIOD.

D. DO NOT PLACE MULCH AGAINST TRUNKS OR STEMS OF PLANTS.

HARDSCAPE NOTES

1. IN AREAS DESIGNATED ON THE PLANS, CONCRETE PAVERS SHALL BE PLACED WITHIN CURBED MEDIANS.

2. SUBMIT FULL SIZE SAMPLES AND SHOP DRAWINGS FOR PAVER GEOMETRY, COLOR, AND PAVING PATTERN OPTIONS. IT IS ANTICIPATED THAT 4"x8" (NOMINAL) PAVERS WILL BE UTILIZED. PATTERN SHALL BE RUNNING BOND, SEE DETAILS. ENGINEER AND DISTRICT LANDSCAPE ARCHITECT SHALL DIRECT FINAL SELECTION OF COLOR, GEOMETRY, AND PAVING PATTERN.

3. FURNISH AND INSTALL PAVERS AND BEDDING MATERIAL PER ASTM STANDARD C936.

4. ENSURE PAVERS ARE CONSISTENT IN COLOR, SIZE, AND APPEARANCE.

5. PAVERS SHALL BE PLACED ON SAND SETTING BED. PROVIDE CLEAN, NON-PLASTIC BEDDING AND JOINT SAND. JOINT SAND SHALL BE FREE OF FOREIGN MATTER AND SHALL MEET ASTM C144. BEDDING SHALL BE FREE OF FOREIGN MATTER AND MEET ASTM C33 STANDARD SPECIFICATION FOR CONCRETE AGGREGATE.

6. PRIOR TO INSTALLATION, PROVIDE MINIMUM 2FT X 3FT LENGTH MOCK-UP FOLLOWING THESE REQUIREMENTS FOR REVIEW AND APPROVAL BY THE ENGINEER AND DISTRICT LANDSCAPE ARCHITECT. MOCK-UP MAY BE INCORPORATED INTO THE WORK WITH THE ENGINEER'S APPROVAL.

7. SUBMIT A MINIMUM OF FIVE REPRESENTATIVE PHOTOS OF LIMESTONE BOULDERS. PHOTOS SHALL BE REPRESENTATIVE OF TYPICAL BOULDERS TO BE UTILIZED. INCLUDE CLEAR, HIGH RESOLUTION IMAGES WITH A LEGIBLE SCALE. PROVIDE DATES OF PHOTOGRAPHS AND SOURCE. PHOTOS MUST BE APPROVED BY THE ENGINEER PRIOR TO ANY DELIVERY TO SITE.

8. LIMESTONE BOULDERS SHALL BE PLACED AS SHOWN IN PLANS. BOULDERS SHALL MEASURE APPROX. 2'X3'X4' SEE DETAILS FOR INSTALLATION REQUIREMENTS.

ROOT EXCLUSION NOTES

1. ROOT EXCLUSION FABRIC

BIOBARRIER ROOT EXCLUSION FABRIC, AS MANUFACTURED BY TYPAR GEOSYNTHETICS SHALL BE UTILIZED WHERE SHOWN ON PLANS WHERE OAK TREES ARE TO BE PLANTED ABOVE OR NEAR POTABLE WATER OR SANITARY SEWER LINES. THE CITY OF DESTIN HAS REQUESTED THAT THIS PRODUCT BE USED.

2. BIOBARRIER SHALL BE UTILIZED IN AREAS SHOWN ON PLANS TO PROTECT SANITARY SEWER AND POTABLE WATER LINES FROM POTENTIAL ROOT INTRUSION FROM PROPOSED TREES.

3. SEE DETAILS FOR SPECIFIC REQUIREMENTS FOR BIOBARRIER INSTALLATION.

4. DESTIN WATER USERS (DWU) IS THE OWNER OF SANITARY SEWER AND POTABLE WATER UTILITIES. CONTACT DWU FIELD OPERATIONS MANAGER (850) 837-6146 PRIOR TO EXCAVATION. PROVIDE MINIMUM 3 WORKING DAYS ADVANCE NOTICE PRIOR TO EXCAVATION.

ESTABLISHMENT PERIOD MAINTENANCE NOTES

(TO COMMENCE AFTER FINAL ACCEPTANCE OF THE INSTALLATION PERIOD)

PERFORM THE FOLLOWING OPERATIONS DURING THE ESTABLISHMENT PERIOD. CONTRACTOR TO ASSUME RESPONSIBILITY FOR THE PROPER MAINTENANCE, SURVIVAL, AND CONDITION OF ALL NEWLY INSTALLED LANDSCAPE ITEMS UNDER THIS CONTRACT WITHIN THE HIGHLIGHTED AREAS DEPICTED ON THE CONTINUING MAINTENANCE PLAN. THE FOLLOWING IS AN OUTLINE OF STATE STANDARD MINIMUM MAINTENANCE ACTIVITIES.

1. MOWING

AT A MINIMUM, MOW ALL NEWLY PLANTED SOD MONTHLY. MOW TO A HEIGHT OF 2".

2. FERTILIZER

APPLY 2 TIMES PER YEAR (MARCH AND SEPTEMBER) OR AS DIRECTED BY THE ENGINEER.

3. EDGE ON A REGULAR BASIS, A MINIMUM OF 12 TIMES PER YEAR, TO COINCIDE WITH THE MAINTENANCE SCHEDULE. WHERE TURF ABUTS MULCH OR CURB, EDGE WITH A MECHANICAL EDGER. TAKE CARE NOT TO SCAR OR DAMAGE HARDSCAPE. KEEP ALL MULCH INSTALLED UNDER THIS CONTRACT CLEAN AND WELL DEFINED IN ORDER TO PREVENT ENCROACHMENT BY TURF GRASSES.

4. WEED CONTROL

WEED NEWLY MULCHED AND SODDED AREAS ON A ROUTINE BASIS TO MAINTAIN A WEED-FREE CONDITION. IMMEDIATELY REMOVE WEEDS FROM THESE AREAS USING HAND TOOLS. HERBICIDES MAY BE UTILIZED IN PROBLEM AREAS. APPLY HERBICIDES WITH EXTREME CAUTION TO PREVENT POTENTIAL DAMAGE TO LANDSCAPE. A MINIMUM OF THREE PRE-EMERGENT HERBICIDE APPLICATIONS PER YEAR WILL BE REQUIRED.

5. HERBICIDE/PESTICIDE

A. REMOVE ALL INVASIVE, EXOTIC SPECIES (PER FLORIDA EXOTIC PEST PLANT COUNCIL CAT. 1 & 2 LISTS).

B. PROVIDE PLANT MATERIAL INSECT AND DISEASE CONTROL INSPECTIONS CONTINUALLY AND TREAT AS NECESSARY.

6. PRUNING

HAND PRUNING, NOT SHEARING TO BE THE PRIMARY METHOD OF SHAPE AND SIZE CONTROL AND ACCOMPLISHED UNDER THE SUPERVISION OF AN INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST WITH A MINIMUM 5 YEARS EXPERIENCE ON SIMILAR PROJECTS TO ENSURE THIS FUNCTION IS IN ACCORDANCE WITH RECOMMENDED HORTICULTURAL PRACTICES.

PERFORM SELECTIVE HAND PRUNING AS NECESSARY ON ALL TREES, SHRUBS, AND GROUNDCOVERS IN ORDER TO MAINTAIN THE NATURAL HABIT OF THE PLANT IN A FLORIDA #1 CONDITION AND ENSURE HEALTH AND VIGOR THROUGHOUT THE ESTABLISHMENT PERIOD. REVIEW AT EACH MAINTENANCE VISIT. MAINTAIN ONE DOMINANT LEADER IN CANOPY TREES.

CRAPE MYRTLE TREES MAY BE TIP PRUNED DURING THE GROWING SEASON (CUTS THROUGH SMALLER DIAMETER BRANCHES 1 YEAR OLD OR LESS). POLLARDING (ANNUAL REMOVAL OF ALL SPROUTS) AND TOPPING (REMOVAL OF LARGE DIAMETER WOOD) ARE NOT ACCEPTABLE PRUNING METHODS. REMOVE CROSS BRANCHING ANNUALLY.

PRUNE ALL PLANT MATERIAL AS NEEDED TO ENSURE COMPLIANCE WITH MRP REQUIREMENTS.

7. MULCH

MAINTAIN MULCH AT A 3" COMPRESSED DEPTH. RE-MULCH AS NEEDED (A MINIMUM OF ONCE PER YEAR, 1.5" DEPTH MINIMUM). SPREAD MULCH EVENLY. DO NOT PLACE MULCH AGAINST TRUNKS OR STEMS OF PLANTS.

A. FOR AREAS PLANTED WITH MINIMA JASMINE OR CONFEDERATE JASMINE, MULCH SHALL BE PINE BARK NUGGET FINES, ½" OR SMALLER.

B. FOR OTHER PLANT BEDS AND INDIVIDUAL TREE RINGS, MULCH SHALL BE SHREDDED PINE BARK.

C. FOR THIN MEDIANS NOT PLANTED AND IRRIGATED, CRUSHED SHELL SHALL BE USED.

8. SPECIAL CARE REQUIREMENTS

PROTECT HARDSCAPE ELEMENTS FROM DAMAGE DURING MAINTENANCE ACTIVITIES. ENSURE AREAS ADJACENT TO MAINTENANCE ACTIVITIES ARE CLEANED AND SWEPT AFTER EACH MAINTENANCE VISIT. MAINTAIN CONCRETE PAVERS WEED-FREE. RE-SAND JOINTS A MINIMUM OF EVERY 6 MONTHS. CLEAN AS REQUIRED TO REMOVE STAINS/DISCOLORATION.

9. LITTER PICK-UP

ENSURE LITTER PICKUP WITHIN NEWLY PLANTED, MULCHED, SODDED AND PAVER AREAS INCLUDING THE FULL EXTENT OF MEDIANS, AT EACH MAINTENANCE VISIT.

10. IRRIGATION SYSTEM

INSPECT IRRIGATION SYSTEM AT EACH MAINTENANCE VISIT. OBSERVE IN OPERATION AND MAKE NECESSARY ADJUSTMENTS/REPAIRS. REVIEW AND ADJUST WATERING SCHEDULES SEASONALLY AS NEEDED (A MINIMUM OF 4 TIMES PER YEAR). REMOVE ABOVE GROUND IRRIGATION COMPONENTS AT THE END OF THE ESTABLISHMENT PERIOD. IN-GROUND COMPONENTS MAY BE ABANDONED IN PLACE.

11. STAKING

MAINTAIN ALL STAKING DURING THE FIRST YEAR OF THE ESTABLISHMENT PERIOD.

REMOVE ALL STAKING AT THE END OF THE FIRST YEAR OF THE ESTABLISHMENT PERIOD.

12. EARTH SAUCER

REMOVE, GRADE SMOOTH, AND RE-MULCH SOIL RINGSAT TREES AT THE END OF THE FIRST YEAR OF THE ESTABLISHMENT PERIOD.

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

James S. Gilman, RLA
LA# 1628
AECOM Technical Services, Inc
7650 West Courtney Campbell Causeway
Tampa, FL 33607-1462

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE NOTES

SHEET NO. 6

CONTINUING MAINTENANCE PLAN NOTES

(TO COMMENCE AT THE CONCLUSION OF THE ESTABLISHMENT PERIOD, NOT INCLUDED IN CONTRACTOR BID)

1. MOWING

   AT A MINIMUM, MOW ALL NEWLY PLANTED SOD MONTHLY. MOW TO A HEIGHT OF 2". DO NOT ALLOW SOD TO EXCEED 4" HEIGHT.

2. FERTILIZER

   APPLY 2 TIMES PER YEAR (MARCH AND SEPTEMBER) OR AS DIRECTED BY THE ENGINEER.

3. EDGING

   EDGE ON A REGULAR BASIS, A MINIMUM OF 12 TIMES PER YEAR, TO COINCIDE WITH THE MAINTENANCE SCHEDULE. WHERE TURF ABUTS MULCH OR CURB, EDGE WITH A MECHANICAL EDGER. TAKE CARE NOT TO SCAR OR DAMAGE HARDSCAPE. KEEP ALL MULCH INSTALLED UNDER THIS CONTRACT CLEAN AND WELL DEFINED IN ORDER TO PREVENT ENCROACHMENT BY TURF GRASSES.

4. WEED CONTROL

   WEED MULCHED AND SODDED AREAS ON A ROUTINE BASIS TO MAINTAIN A WEED-FREE CONDITION. IMMEDIATELY REMOVE WEEDS FROM THESE AREAS USING HAND TOOLS. HERBICIDES MAY BE UTILIZED IN PROBLEM AREAS. APPLY HERBICIDES WITH EXTREME CAUTION TO PREVENT POTENTIAL DAMAGE TO LANDSCAPE. A MINIMUM OF THREE PRE-EMERGENT HERBICIDE APPLICATIONS PER YEAR WILL BE REQUIRED.

5. HERBICIDE/PESTICIDE

   A. REMOVE ALL INVASIVE, EXOTIC SPECIES (PER FLORIDA EXOTIC PEST PLANT COUNCIL CAT. 1 & 2 LISTS).
   B. PROVIDE PLANT MATERIAL INSECT AND DISEASE CONTROL INSPECTIONS CONTINUALLY AND TREAT AS NECESSARY.

6. PRUNING

   HAND PRUNING, NOT SHEARING TO BE THE PRIMARY METHOD OF SHAPE AND SIZE CONTROL AND ACCOMPLISHED UNDER THE SUPERVISION OF AN INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST WITH A MINIMUM 5 YEARS EXPERIENCE ON SIMILAR PROJECTS TO ENSURE THIS FUNCTION IS IN ACCORDANCE WITH RECOMMENDED HORTICULTURAL PRACTICES.

   PERFORM SELECTIVE HAND PRUNING AS NECESSARY ON ALL TREES, SHRUBS, AND GROUNDCOVERS IN ORDER TO MAINTAIN THE NATURAL HABIT OF THE PLANT AND ENSURE HEALTH AND VIGOR THROUGHOUT THE ESTABLISHMENT PERIOD. REVIEW AT EACH MAINTENANCE VISIT. MAINTAIN ONE DOMINANT LEADER IN CANOPY TREES.

   CRAPE MYRTLE TREES MAY BE TIP PRUNED DURING THE GROWING SEASON (CUTS THROUGH SMALLER DIAMETER BRANCHES 1 YEAR OLD OR LESS). POLLARDING (ANNUAL REMOVAL OF ALL SPROUTS) AND TOPPING (REMOVAL OF LARGE DIAMETER WOOD) ARE NOT ACCEPTABLE PRUNING METHODS. REMOVE CROSS BRANCHING ANNUALLY.

   PRUNE ALL PLANT MATERIAL AS NEEDED TO ENSURE COMPLIANCE WITH MRP REQUIREMENTS.

7. MULCH

   MAINTAIN MULCH AT A 3" COMPRESSED DEPTH. RE-MULCH AS NEEDED (A MINIMUM OF ONCE PER YEAR, 1.5" DEPTH MINIMUM). SPREAD MULCH EVENLY. DO NOT PLACE MULCH AGAINST TRUNKS OR STEMS OF PLANTS.

   A. FOR AREAS PLANTED WITH MINIMA JASMINE OR CONFEDERATE JASMINE, MULCH SHALL BE PINE BARK NUGGET FINES, ½" OR SMALLER.
   B. FOR OTHER PLANT BEDS AND INDIVIDUAL TREE RINGS, MULCH SHALL BE SHREDDED PINE BARK.

8. SPECIAL CARE REQUIREMENTS

   PROTECT HARDSCAPE ELEMENTS DURING MAINTENANCE ACTIVITIES FROM DAMAGE. ENSURE AREAS ADJACENT TO MAINTENANCE ACTIVITIES ARE CLEANED AND SWEPT AFTER EACH MAINTENANCE VISIT. MAINTAIN CONCRETE PAVERS WEED-FREE. RE-SAND JOINTS A MINIMUM OF EVERY 6 MONTHS. CLEAN AS REQUIRED TO REMOVE STAINS/DISCOLORATION.

9. LITTER PICK-UP

   ENSURE LITTER PICKUP WITHIN PLANTED, MULCHED, AND SODDED AREAS INCLUDING THE FULL EXTENT OF MEDIANS, AT EACH MAINTENANCE VISIT.

10. IRRIGATION SYSTEM

    INSPECT IRRIGATION SYSTEM AT EACH MAINTENANCE VISIT. OBSERVE IN OPERATION AND MAKE NECESSARY ADJUSTMENTS/REPAIRS. REVIEW AND ADJUST WATERING SCHEDULES SEASONALLY AS NEEDED, A MINIMUM OF 4 TIMES PER YEAR.

11. LANE CLOSURES (TRAVEL LANES, TURN LANES AND MEDIAN OPENINGS) ARE PROHIBITED BETWEEN THE HOURS OF 5:30 AM TO 9:00 PM MONDAY THROUGH THURSDAY AND FROM FRIDAY AT 5:30 AM TO 9:00 PM SUNDAY.

12. ALL LANES MUST BE REOPENED TO NORMAL TRAFFIC WITHIN 12 HOURS OF AN EVACUATION NOTICE FOR A HURRICANE OR ANY OTHER EMERGENCY EVENT AND SHALL REMAIN OPEN UNTIL OTHERWISE DIRECTED BY THE ENGINEER.

13. SPECIAL EVENTS FOR THIS PROJECT INCLUDE:

    SPRING BREAK (MARCH 12-28)
    OPEN HOUSE AND AIR SHOW (APRIL)
    BILLY BOWLEGS PIRATE FESTIVAL (SUMMER)
    GREEK FESTIVAL (SEPTEMBER)
    SEAFOOD FESTIVAL-DESTIN (SEPTEMBER/OCTOBER)
    MARDI GRAS ON THE ISLAND (FEBRUARY)
    DESTIN MARATHON (FEBRUARY)
    RED CROSS RUN (AUGUST)

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LANDSCAPE NOTES

SHEET NO. 7

PLANT SYMBOLS:

(IV) ILEX VOMITORIA – YAUPON HOLLY

(IC) ILEX CORNUTA 'BURFORDII NANA' – DWARF BURFORD HOLLY (30" O.C.)

(LM) LIRIOPE MUSCARI 'EMERALD GODDESS' – EMERALD GODDESS LIRIOPE (18" O.C.)

(LC) LOROPETALUM CHINENSE 'PURPLE PIXIE' – DWARF LOROPETALUM (24" O.C.)

(PQ) PASPALUM QUADRIFARIUM – CROWNGRASS (48" O.C.)

(RF) RHODODENDRON X 'FASHION' – FASHION AZALEA (30" O.C.)

(QV) QUERCUS VIRGINIANA – SOUTHERN LIVE OAK

(QV) QUERCUS VIRGINIANA – SOUTHERN LIVE OAK (WITH 3'X3' BIOBARRIER)

(TA) TRACHELOSPERMUM ASIATICUM 'MINIMA' – MINIMA JASMINE (18" O.C.)

(TC) TRACHELOSPERMUM JASMINOIDES 'VARIEGATUM' – VARIEGATED CONFEDERATE JASMINE (18" O.C.)

(YF) YUCCA FILAMENTOSA 'COLOR GUARD' – VARIEGATED ADAM'S NEEDLE
AND 2ND SPECIES (VARIES), SEE DETAILS AND PLANS

(ZE) ZOYSIA JAPONICA 'EMPIRE' – EMPIRE ZOYSIA GRASS

LEGEND

00 MEDIAN NUMBER

CONCRETE PAVERS

EXISTING ASPHALT

TOPSOIL BENEATH OAK TREES

TOPSOIL BENEATH CRAPE MYRTLE TREES AND/OR SOD

LIMESTONE BOULDER

EXISTING CRAPE MYRTLE TO REMAIN

EXISTING CRAPE MYRTLE TO BE REMOVED

EXISTING LIGUSTRUM TO BE REMOVED

EXISTING SABAL PALM TO BE REMOVED

ABBREVIATIONS:

AC = ACRE
CAL = CALIPER
CONT = CONTAINER
CT = CLEAR TRUNK
FG = FIELD GROWN
GAL = GALLON
HT = HEIGHT
MAX = MAXIMUM
MIN = MINIMUM
NWL = NORMAL WATER LINE
OAH = OVERALL HEIGHT
OC = ON CENTER
SPR = SPREAD
TYP = TYPICAL

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LANDSCAPE LEGEND

SHEET NO. 8

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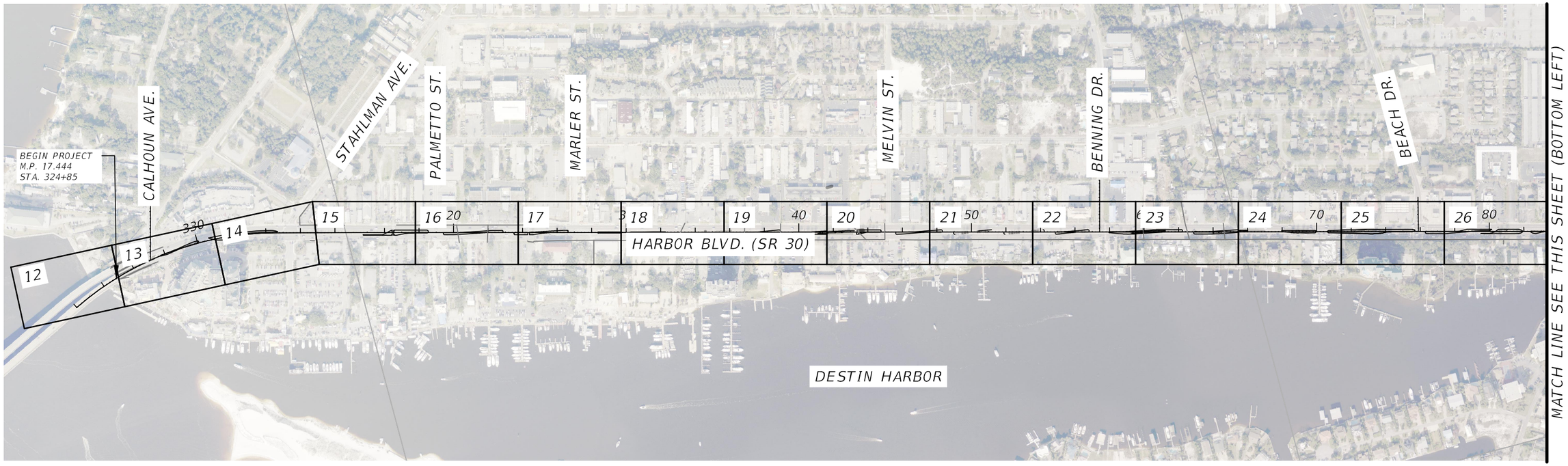

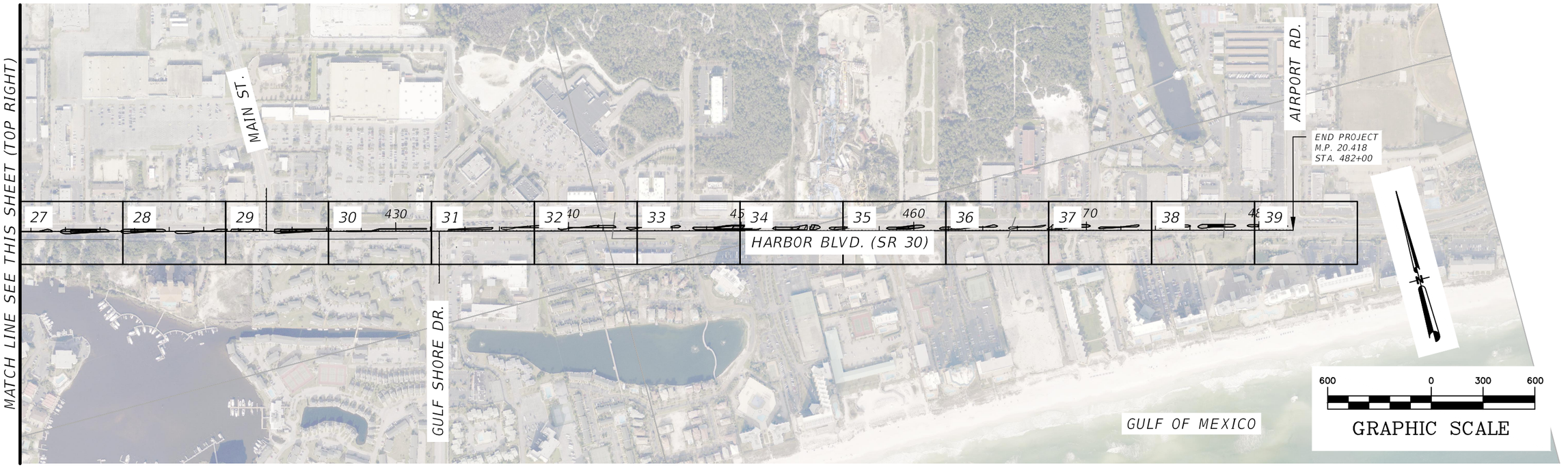

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PROJECT LAYOUT

SHEET NO. 9





MAINTENANCE AREA LIMITS

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MAINTENANCE AREA LIMITS

SHEET NO. 10

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MAINTENANCE AREA LIMITS

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MAINTENANCE AREA LIMITS

SHEET NO. 11

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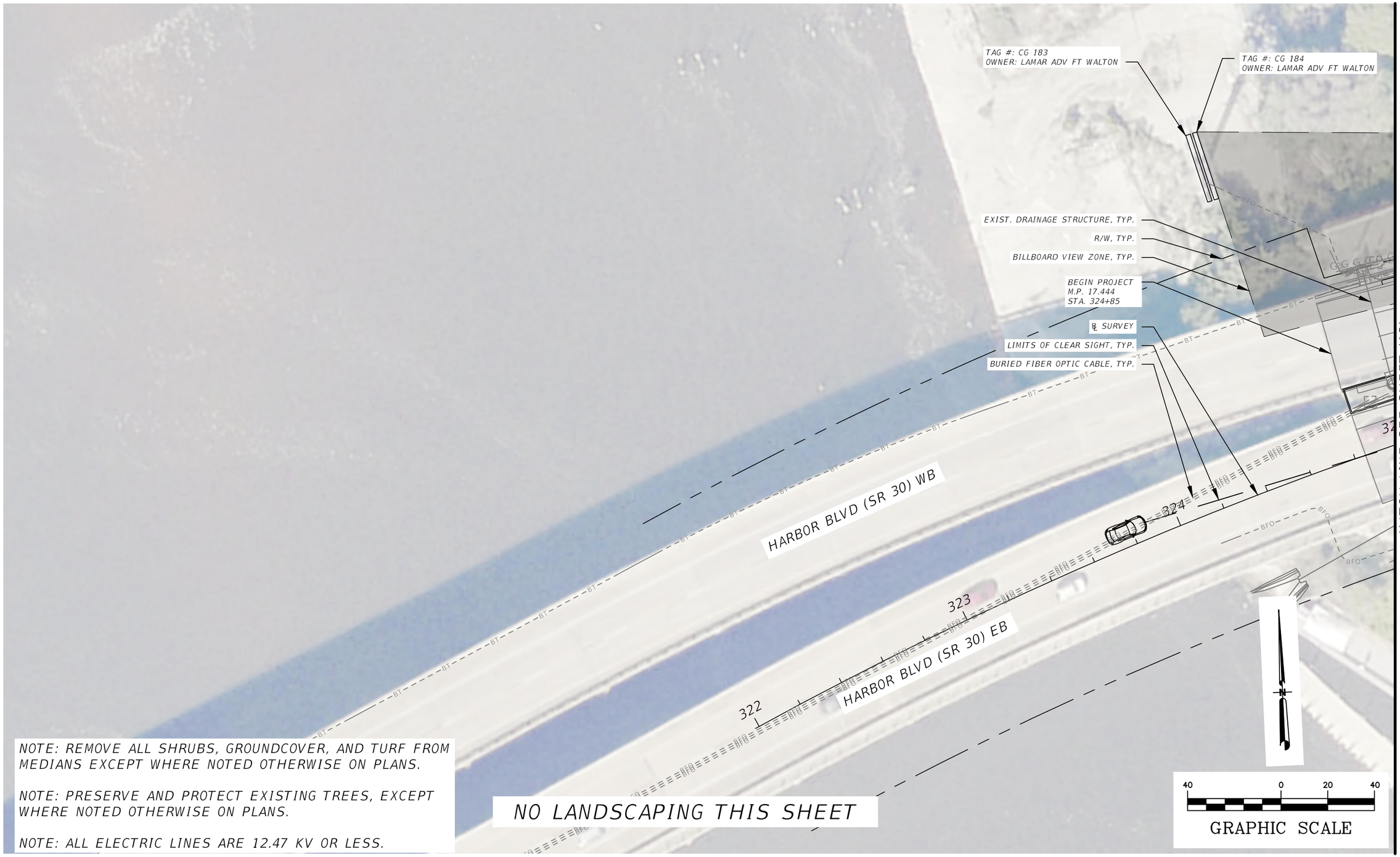

NOTE: REMOVE ALL SHRUBS, GROUNDCOVER, AND TURF FROM MEDIANS EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

NO LANDSCAPING THIS SHEET

MATCH LINE SEE SHEET (13)

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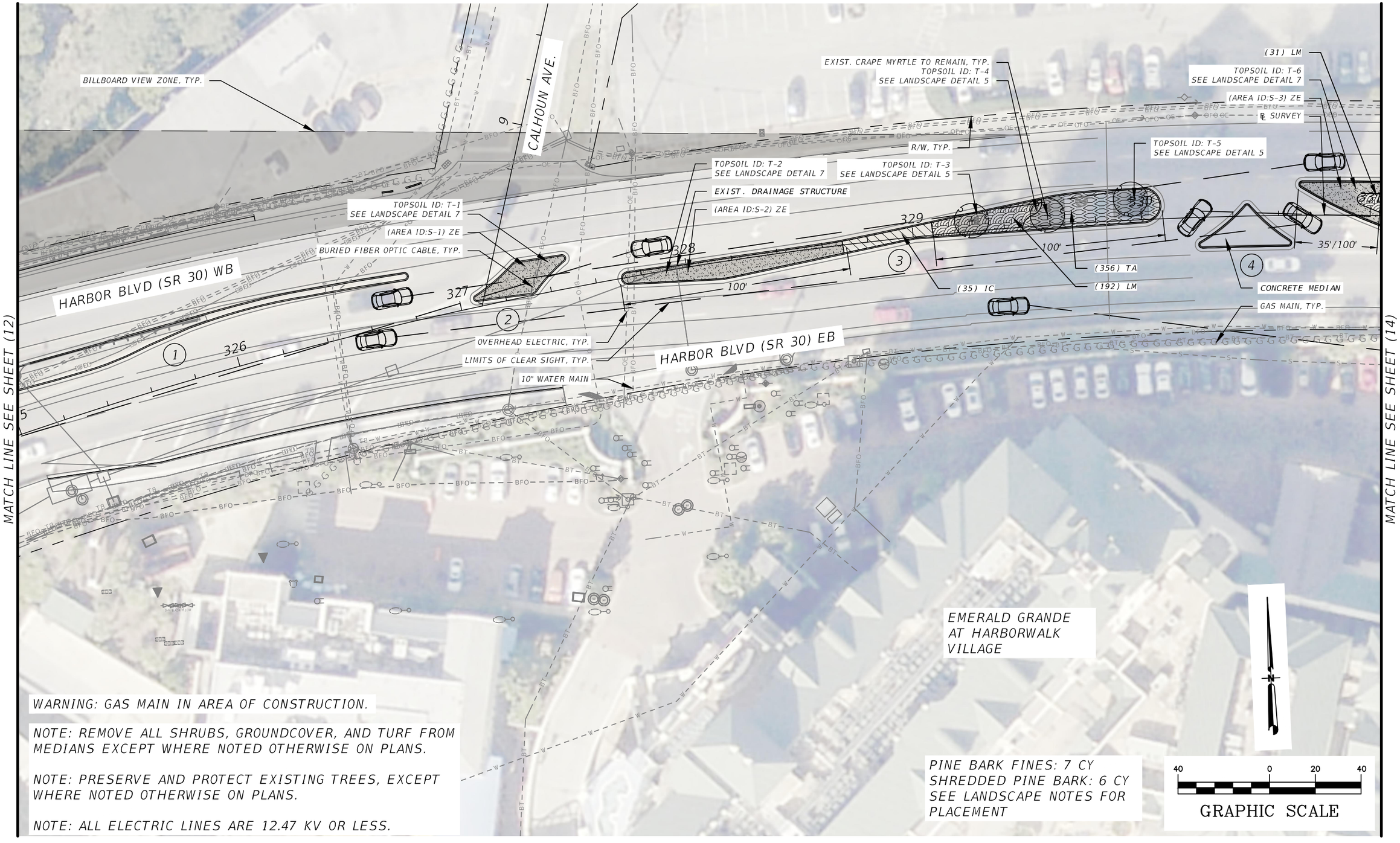
SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE PLAN

SHEET NO. 12



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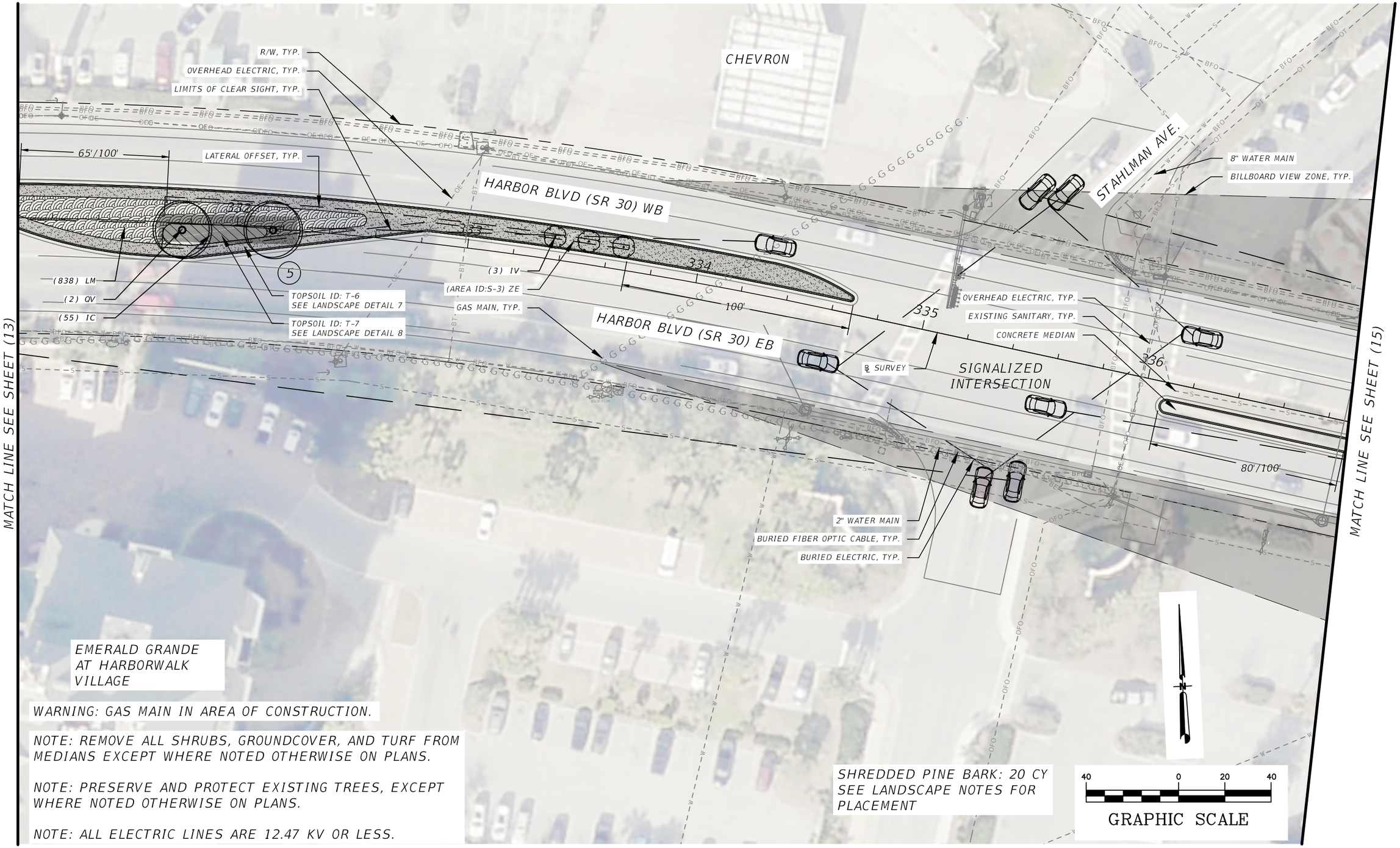
LANDSCAPE PLAN

SHEET NO.
13

Monday, September 21, 2020 9:21am S:\Projects_LANDUSE\Projects\FDOT D3 OKALOOSA SR30 (US98)_CA574_TWO 5\900-CAD_GIS\910-CAD_BIM\44590715201\landscp\DSGNLD01_SR30-Harbo



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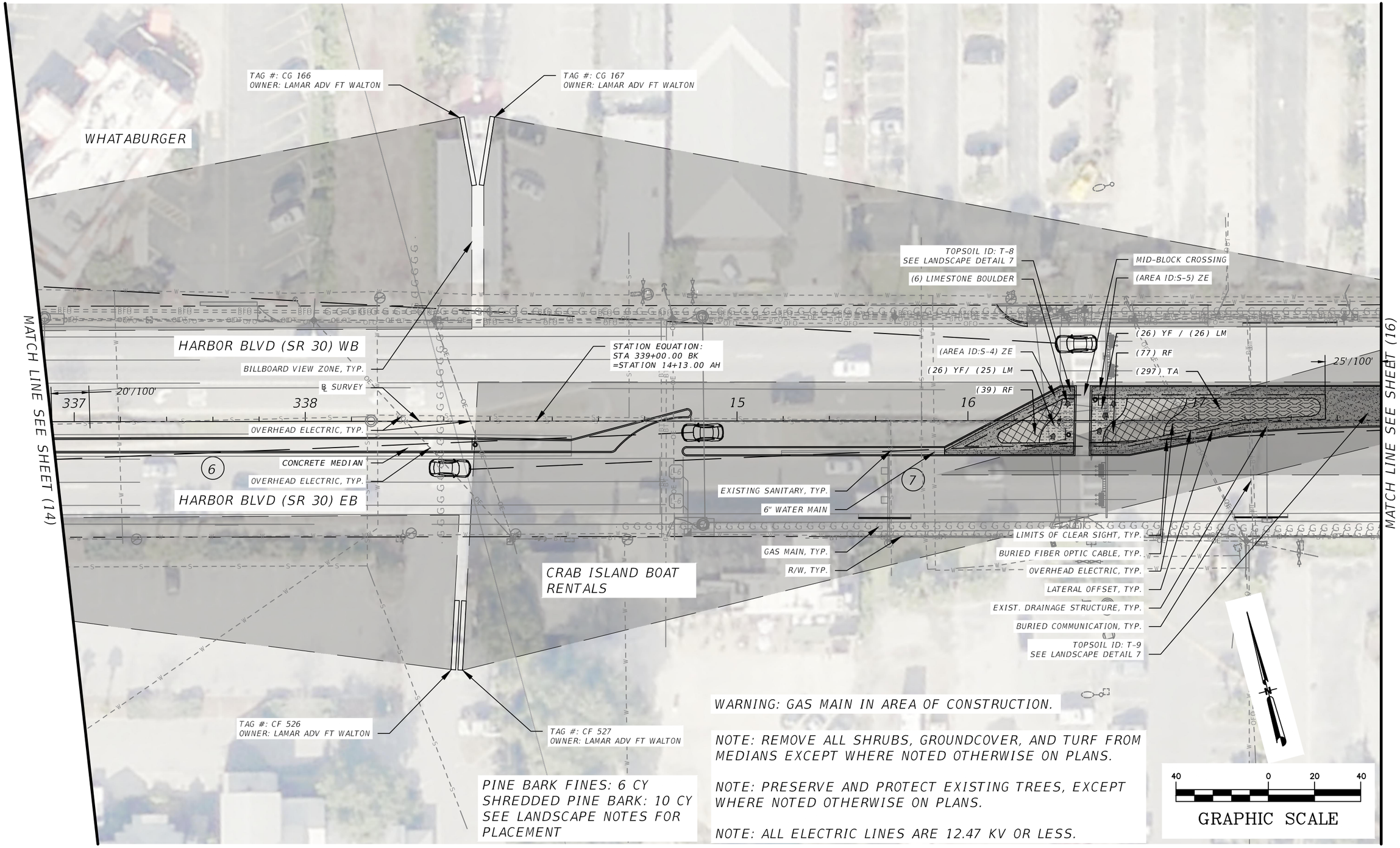
LANDSCAPE PLAN

SHEET NO. 14



MATCH LINE SEE SHEET (14)

MATCH LINE SEE SHEET (16)

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LANDSCAPE PLAN

SHEET NO. 15

MATCH LINE SEE SHEET (15)

MATCH LINE SEE SHEET (17)

TAG #:
OWNER: NOT PERMITTED

TAG #:
OWNER: NOT PERMITTED

VILLAGE INN OF DESTIN

TEXACO

PALMETTO ST.

R/W, TYP.

6" WATER MAIN

BILLBOARD VIEW ZONE, TYP.

OVERHEAD ELECTRIC, TYP.

4" WATER MAIN

TOPSOIL ID: T-9
SEE LANDSCAPE DETAIL 7

(AREA ID:S-5) ZE

TOPSOIL ID: T-10
SEE LANDSCAPE DETAIL 5&7

(AREA ID:S-6) ZE

OVERHEAD ELECTRIC, TYP.

TOPSOIL ID: T-11
SEE LANDSCAPE DETAIL 5&7

(AREA ID:S-7) ZE

LATERAL OFFSET, TYP.

EXIST. DRAINAGE STRUCTURE, TYP.

EXIST. CRAPE MYRTLE TO REMAIN, TYP.

HARBOR BLVD (SR 30) WB

18 19 20 21 22 23

(116) LM

75'/100'

100'

100'

25'/100'

8

℄ SURVEY

EXISTING SANITARY, TYP.

EXIST. SIGN, TYP.

(180) IC

(6) IV

GAS MAIN, TYP.

HARBOR BLVD (SR 30) EB

12" WATER MAIN

LIMITS OF CLEAR SIGHT, TYP.

WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

NOTE: REMOVE ALL SHRUBS, GROUNDCOVER, AND TURF FROM MEDIANS EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

SHREDDED PINE BARK: 13 CY
SEE LANDSCAPE NOTES FOR PLACEMENT

40 0 20 40

GRAPHIC SCALE

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LANDSCAPE PLAN

SHEET NO. 16

MATCH LINE SEE SHEET (16)

MATCH LINE SEE SHEET (18)

MARLER ST.

HARBOR BLVD (SR 30) WB

HARBOR BLVD (SR 30) EB

BILLBOARD VIEW ZONE, TYP.

R/W, TYP.

LIMITS OF CLEAR SIGHT, TYP.

MID-BLOCK CROSSING

BURIED COMMUNICATION, TYP.

(19) YF/(19) LC

(576) LM

8" WATER MAIN, TYP.

EXISTING SANITARY, TYP.

75'/100'

100'

24

25

26

27

28

29

9

10

(300) LM

(19) YF/(18) LC

(6) LIMESTONE BOULDER

TOPSOIL ID: T-13
SEE LANDSCAPE DETAIL 5

TOPSOIL ID: T-12
SEE LANDSCAPE DETAIL 5

(4) IV

(AREA ID:S-8) ZE

TOPSOIL ID: T-14
SEE LANDSCAPE DETAIL 5&7

EXIST. CRAPE MYRTLE TO REMAIN, TYP.

OVERHEAD ELECTRIC, TYP.

OVERHEAD ELECTRIC, TYP.

BURIED FIBER OPTIC CABLE, TYP.

BURIED COMMUNICATION, TYP.

LATERAL OFFSET, TYP.

GAS MAIN, TYP.

℄ SURVEY

CONCRETE MEDIAN

DIPPIN DOTS
ICE CREAM

LANDSHARKS PIZZA
COMPANY

SHREDDED PINE BARK: 20 CY
SEE LANDSCAPE NOTES FOR
PLACEMENT

WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

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NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

40 0 20 40

GRAPHIC SCALE

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LANDSCAPE PLAN

SHEET NO. 17

ST ANDREWS
EPISCOPAL CHURCH

PATIOS PLUS

MATCH LINE SEE SHEET (17)

MATCH LINE SEE SHEET (19)

CONCRETE MEDIAN

℄ SURVEY

HARBOR BLVD (SR 30) WB

HARBOR BLVD (SR 30) EB

30 31 32 33 34 35

11 12

OVERHEAD ELECTRIC, TYP.

R/W, TYP.

LATERAL OFFSET, TYP.

EXISTING SANITARY, TYP.

(80) IC

50'/100'

100'

(AREA ID:S-9) ZE

TOPSOIL ID: T-15
SEE LANDSCAPE DETAIL 7

OVERHEAD ELECTRIC, TYP.

EXIST. DRAINAGE STRUCTURE, TYP.

EXIST. SIGN, TYP.

6" WATER MAIN

LIMITS OF CLEAR SIGHT, TYP.

OVERHEAD ELECTRIC, TYP.

(AREA ID:S-10) ZE

TOPSOIL ID: T-16
SEE LANDSCAPE DETAIL 7

WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

NOTE: REMOVE ALL SHRUBS, GROUNDCOVER, AND TURF FROM MEDIANS EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

SHREDDED PINE BARK: 5 CY
SEE LANDSCAPE NOTES FOR PLACEMENT

40 0 20 40

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SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE PLAN

SHEET NO. 18

MATCH LINE SEE SHEET (18)

MATCH LINE SEE SHEET (20)

THE BREAKFAST TABLE CAFE

HARBOR BLVD (SR 30) WB

HARBOR BLVD (SR 30) EB

(159) LC

OVERHEAD ELECTRIC, TYP.

LIMITS OF CLEAR SIGHT, TYP.

TOPSOIL ID: T-16
SEE LANDSCAPE DETAIL 5&7

(AREA ID:S-10) ZE

TOPSOIL ID: T-17
SEE LANDSCAPE DETAIL 5&7

(AREA ID:S-11) ZE

TOPSOIL ID: T-19
SEE LANDSCAPE DETAILS 7

(AREA ID:S-12) ZE

TOPSOIL ID: T-18
SEE LANDSCAPE DETAIL 5

EXIST. DRAINAGE STRUCTURE, TYP.

R/W, TYP.

4" WATER MAIN

℄ SURVEY

BURIED COMMUNICATION, TYP.

BURIED FIBER OPTIC CABLE, TYP.

(39) IC

TOPSOIL ID: T-21
SEE LANDSCAPE DETAIL 8

EXISTING SANITARY, TYP.

(37) RF

(1) QV

BIOBARRIER ID: B-1
SEE LANDSCAPE DETAIL 4

(2) EXIST. LIGUSTRUM
TO BE REMOVED.

EXIST. CRAPE MYRTLE TO
REMAIN, TYP.

TOPSOIL ID: T-20
SEE LANDSCAPE DETAIL 5&7

(AREA ID:S-13) ZE

LATERAL OFFSET, TYP.

GAS MAIN, TYP.

36 37 38 39 40 41

50'/100'

100'

100'

100'

13

WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

NOTE: REMOVE ALL SHRUBS, GROUNDCOVER, AND TURF FROM MEDIANS EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

SHREDDED PINE BARK: 10 CY
SEE LANDSCAPE NOTES FOR
PLACEMENT

40 0 20 40

GRAPHIC SCALE

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

James S. Gilman, RLA
LA# 1628
AECOM Technical Services, Inc
7650 West Courtney Campbell Causeway
Tampa, FL 33607-1462

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE PLAN

SHEET NO. 19

MATCH LINE SEE SHEET (19)

MATCH LINE SEE SHEET (21)

FNBT BANK

MELVIN ST.

HARBOR BLVD (SR 30) WB

HARBOR BLVD (SR 30) EB

EXIST. DRAINAGE STRUCTURE, TYP.

EXIST. LIGUSTRUM TO BE REMOVED

OVERHEAD ELECTRIC, TYP.

(6) LIMESTONE BOULDER

(36) YF/(36) LM

LATERAL OFFSET, TYP.

TOPSOIL ID: T-21
SEE LANDSCAPE DETAIL 8

TOPSOIL ID: T-20
SEE LANDSCAPE DETAIL 5&7

(AREA ID:S-13) ZE

MID-BLOCK CROSSING

(38) YF/(38) LM

(AREA ID:S-14) ZE

TOPSOIL ID: T-22
SEE LANDSCAPE DETAILS 5&7

R/W, TYP.

WATER MAIN, TYP.

BURIED FIBER OPTIC CABLE, TYP.

EXISTING SANITARY, TYP.

℄ SURVEY

OVERHEAD ELECTRIC, TYP.

(2) IV

25'/100'

100'

100'

13

14

15

44+

45

46

47

(220) LC

(60) RF

(150) IC

(83) LC

EXIST. SIGN, TYP.

(2) EXIST. LIGUSTRUM TO BE REMOVED.

(3) QV
BIOBARRIER ID: B-11, B-12, B-13
SEE LANDSCAPE DETAIL 4

OVERHEAD ELECTRIC, TYP.

LIMITS OF CLEAR SIGHT, TYP.

GAS MAIN, TYP.

BURIED COMMUNICATION, TYP.

(AREA ID:S-15) ZE

TOPSOIL ID: T-23
SEE LANDSCAPE DETAIL 5&7

EXIST. CRAPE MYRTLE TO REMAIN, TYP.

OVERHEAD ELECTRIC, TYP.

WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

NOTE: REMOVE ALL SHRUBS, GROUNDCOVER, AND TURF FROM MEDIANS EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

SHREDDED PINE BARK: 27 CY
SEE LANDSCAPE NOTES FOR PLACEMENT

40 0 20 40

GRAPHIC SCALE

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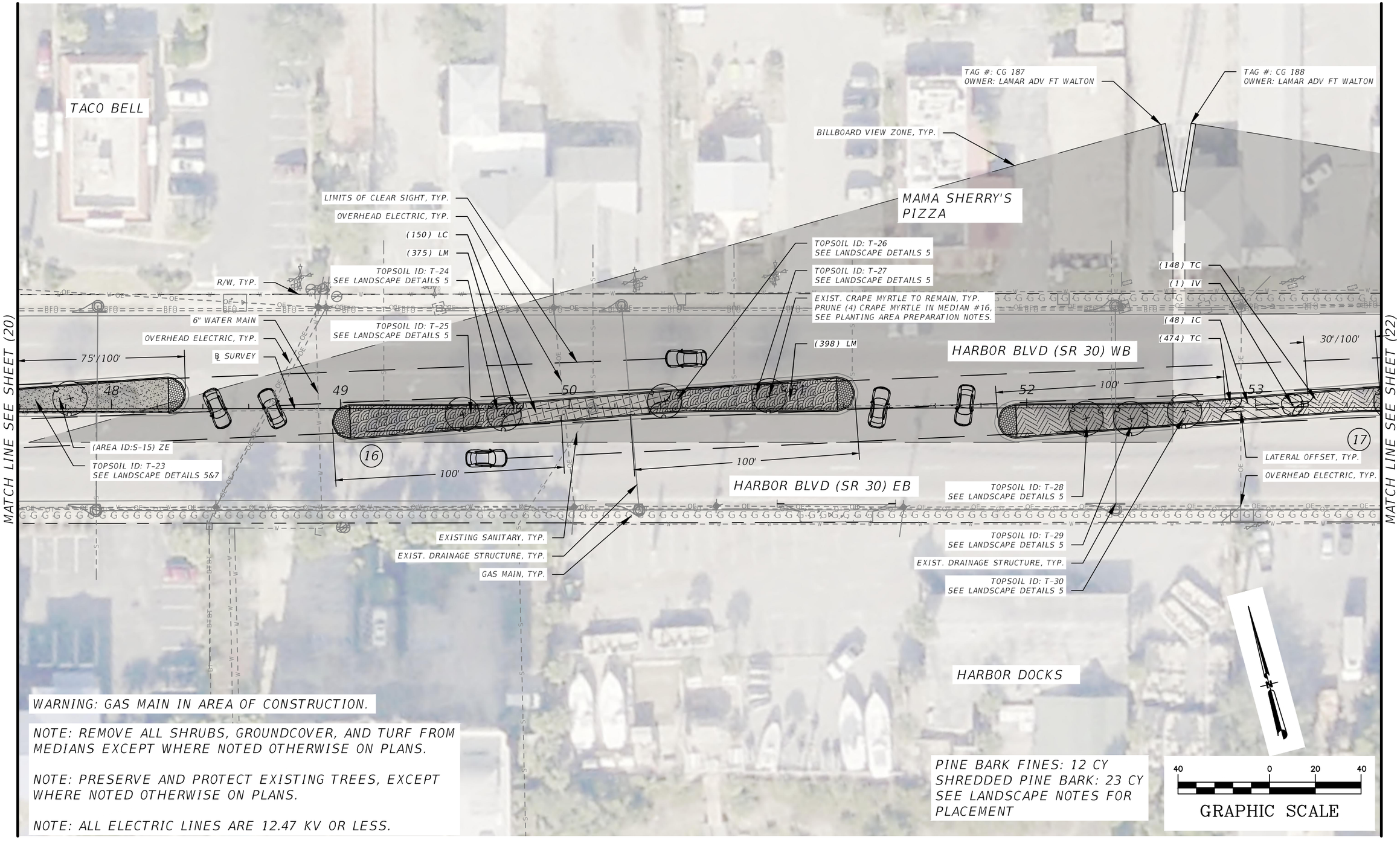
SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE PLAN

SHEET NO. 20



WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

NOTE: REMOVE ALL SHRUBS, GROUNDCOVER, AND TURF FROM MEDIANS EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

PINE BARK FINES: 12 CY
SHREDDED PINE BARK: 23 CY
SEE LANDSCAPE NOTES FOR PLACEMENT

40 0 20 40
GRAPHIC SCALE

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SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE PLAN

SHEET NO. 21

MATCH LINE SEE SHEET (21)

HOG'S BREATH SALOON

BILLBOARD VIEW ZONE, TYP.

HARBOR BLVD (SR 30) WB

BENNING DR.

11

10

70'/100'

54

55

56

57

58

59

18

℄ SURVEY

SIGNALIZED INTERSECTION

100'

HARBOR BLVD (SR 30) EB

R/W, TYP.

TOPSOIL ID: T-36
SEE LANDSCAPE DETAILS 8

TOPSOIL ID: T-34
SEE LANDSCAPE DETAILS 5&7

EXIST. CRAPE MYRTLE TO REMAIN, TYP.

(AREA ID:S-1) ZE

(333) TC

TOPSOIL ID: T-31
SEE LANDSCAPE DETAILS 5

TOPSOIL ID: T-32
SEE LANDSCAPE DETAILS 5

TOPSOIL ID: T-33
SEE LANDSCAPE DETAILS 5

EXIST. DRAINAGE STRUCTURE, TYP.

(AREA ID:S-16) ZE

EXISTING SANITARY, TYP.

4" WATER MAIN

LIMITS OF CLEAR SIGHT, TYP.

GAS MAIN, TYP.

6" WATER MAIN

LATERAL OFFSET, TYP.

(1) QV
BIOBARRIER ID: B-5
SEE LANDSCAPE DETAIL 4

(31) IC

WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

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NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

PINE BARK FINES: 7 CY
SHREDDED PINE BARK: 2 CY
SEE LANDSCAPE NOTES FOR PLACEMENT

40 0 20 40

GRAPHIC SCALE

MATCH LINE SEE SHEET (23)

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE PLAN

SHEET NO. 22

MATCH LINE SEE SHEET (22)

GREGG ORR
PRE-OWNED DESTIN

R/W, TYP.
EXISTING CRAPE MYRTLE TO BE REMOVED
EXISTING SANITARY, TYP.
TOPSOIL ID: T-34
SEE LANDSCAPE DETAILS 5&7
TOPSOIL ID: T-35
SEE LANDSCAPE DETAILS 8
(109) RF
(40) IC
100'
60
61
62
63
64
65
HARBOR BLVD (SR 30) WB
(2) QV
BIOBARRIER ID: B-11, B-12
SEE LANDSCAPE DETAIL 4
(56) RF
(40) PQ
(2) RF
19
20
(57) IC
℄ SURVEY
LATERAL OFFSET, TYP.
LIMITS OF CLEAR SIGHT, TYP.
(AREA ID:S-1) ZE
EXIST. CRAPE MYRTLE TO
REMAIN, TYP.
GAS MAIN, TYP.
WATER MAIN, TYP.
HARBOR BLVD (SR 30) EB
APPROX. EXISTING MANHOLE
(AREA ID:S-18) ZE
TOPSOIL ID: T-36
SEE LANDSCAPE DETAILS 7
TOPSOIL ID: T-37
SEE LANDSCAPE DETAILS 8
OVERHEAD ELECTRIC, TYP.
EXIST. DRAINAGE STRUCTURE, TYP.
(5) QV
BIOBARRIER ID: B-6, B-7, B-8, B-9, B-10
SEE LANDSCAPE DETAIL 4

WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

NOTE: REMOVE ALL SHRUBS, GROUNDCOVER, AND TURF FROM MEDIANS EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

SHREDDED PINE BARK: 20CY
SEE LANDSCAPE NOTES FOR
PLACEMENT

40 0 20 40
GRAPHIC SCALE

MATCH LINE SEE SHEET (24)

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LANDSCAPE PLAN

SHEET NO. 23

MATCH LINE SEE SHEET (23)

MATCH LINE SEE SHEET (25)

DONUT HOLE BAKERY CAFE

R/W, TYP.

GAS MAIN, TYP.

LATERAL OFFSET, TYP.

TOPSOIL ID: T-38
SEE LANDSCAPE DETAILS 8

(47) RF

(2) OV
BIOBARRIER ID: B-13, B-14
SEE LANDSCAPE DETAIL 4

TOPSOIL ID: T-36
EE LANDSCAPE DETAILS 5&7

(AREA ID:S-18) ZE

100'

67

68

69

70

71

BILLBOARD VIEW ZONE, TYP.

TOPSOIL ID: T-40
SEE LANDSCAPE DETAILS 5

TOPSOIL ID: T-42
SEE LANDSCAPE DETAILS 5

TOPSOIL ID: T-39
SEE LANDSCAPE DETAILS 5

TOPSOIL ID: T-41
SEE LANDSCAPE DETAILS 5

HARBOR BLVD (SR 30) WB

TOPSOIL ID: T-43
SEE LANDSCAPE DETAILS 5&7

(AREA ID:S-19) ZE

(231) LM

℄ SURVEY

OVERHEAD ELECTRIC, TYP.

EXISTING SANITARY, TYP.

GAS MAIN, TYP.

(364) LC

(277) LM

21

HARBOR BLVD (SR 30) EB

80'/100'

4" WATER MAIN

EXIST. CRAPE MYRTLE TO REMAIN, TYP.

OVERHEAD ELECTRIC, TYP.

EXISTING SANITARY, TYP.

THE SHIPS CHANDLER

WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

NOTE: REMOVE ALL SHRUBS, GROUNDCOVER, AND TURF FROM MEDIANS EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

SHREDDED PINE BARK: 26 CY
SEE LANDSCAPE NOTES FOR PLACEMENT

40 0 20 40

GRAPHIC SCALE

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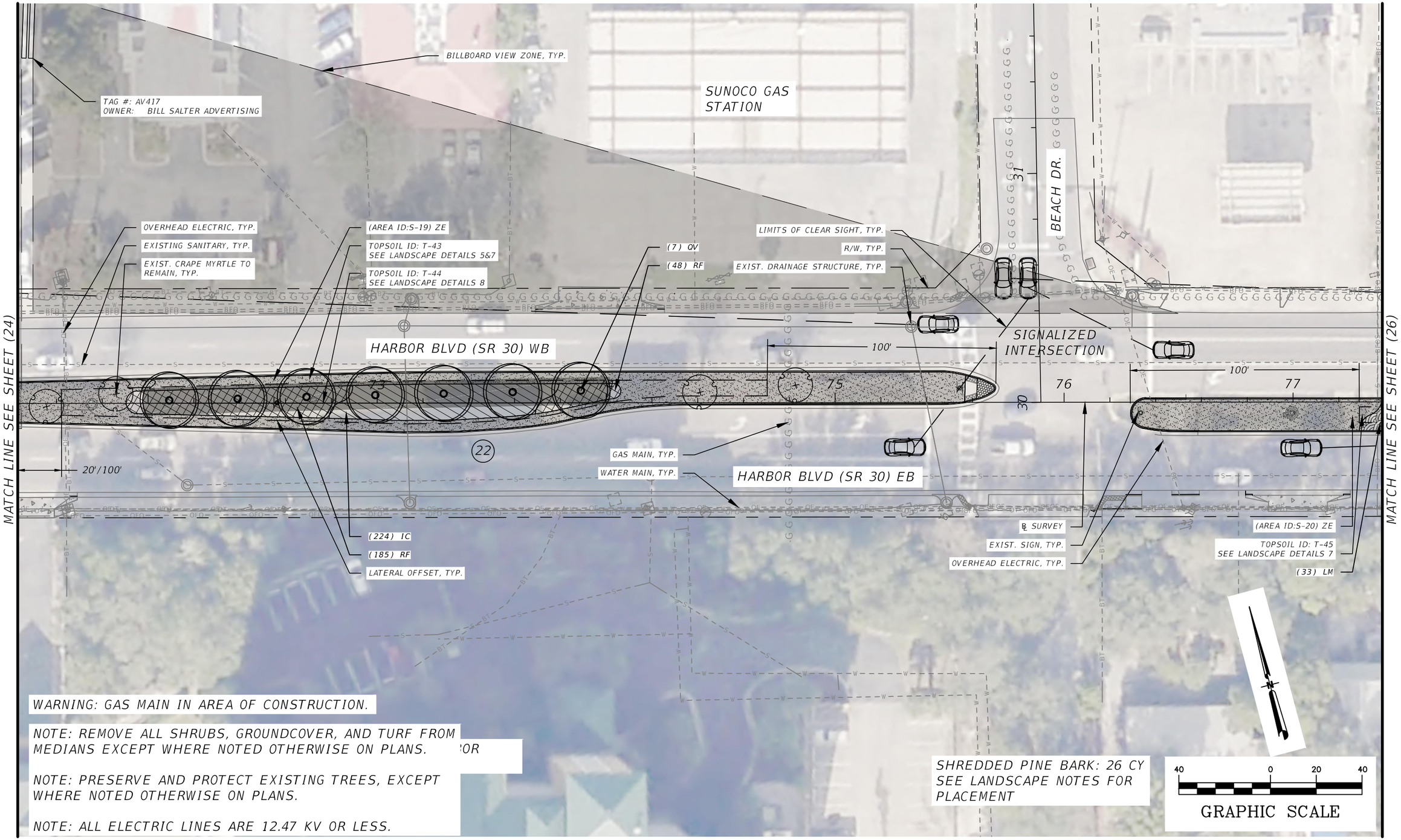
SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE PLAN

SHEET NO. 24



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SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE PLAN

SHEET NO. 25

MATCH LINE SEE SHEET (25)

SHRIMP BASKET
DESTIN

TAG #: CF524
OWNER: BILL SALTER ADVERTISING

TAG #: BH138
OWNER: BILL SALTER ADVERTISING

BILLBOARD VIEW ZONE, TYP.

GAS MAIN, TYP.

EXIST. CRAPE MYRTLE TO REMAIN, TYP.

R/W, TYP.

LATERAL OFFSET, TYP.

LIMITS OF CLEAR SIGHT, TYP.

EXIST. DRAINAGE STRUCTURE, TYP.

TOPSOIL ID: T-48
SEE LANDSCAPE DETAILS 7

(AREA ID:S-23) ZE

(6) IV

(387) LM

(106) LC

HARBOR BLVD (SR 30) WB

100'

100'

78

80

82

83

23

24

CONCRETE MEDIAN

(265) LM

℄ SURVEY

EXIST. SIGN, TYP.

(AREA ID:S-21) ZE

HARBOR BLVD (SR 30) EB

(AREA ID:S-22) ZE

EXIST. DRAINAGE STRUCTURE, TYP.

TOPSOIL ID: T-46
SEE LANDSCAPE DETAILS 7

OVERHEAD ELECTRIC, TYP.

WATER MAIN, TYP.

+82.00

(399) TC

(318) LM

(28) IC

TOPSOIL ID: T-47
SEE LANDSCAPE DETAILS 5&7

OVERHEAD ELECTRIC, TYP.

GAS MAIN, TYP.

WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

NOTE: REMOVE ALL SHRUBS, GROUNDCOVER, AND TURF FROM MEDIANS EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

PINE BARK FINES:8 CY
SHREDDED PINE BARK: 25 CY
SEE LANDSCAPE NOTES FOR PLACEMENT

40 0 20 40

GRAPHIC SCALE

MATCH LINE SEE SHEET (27)

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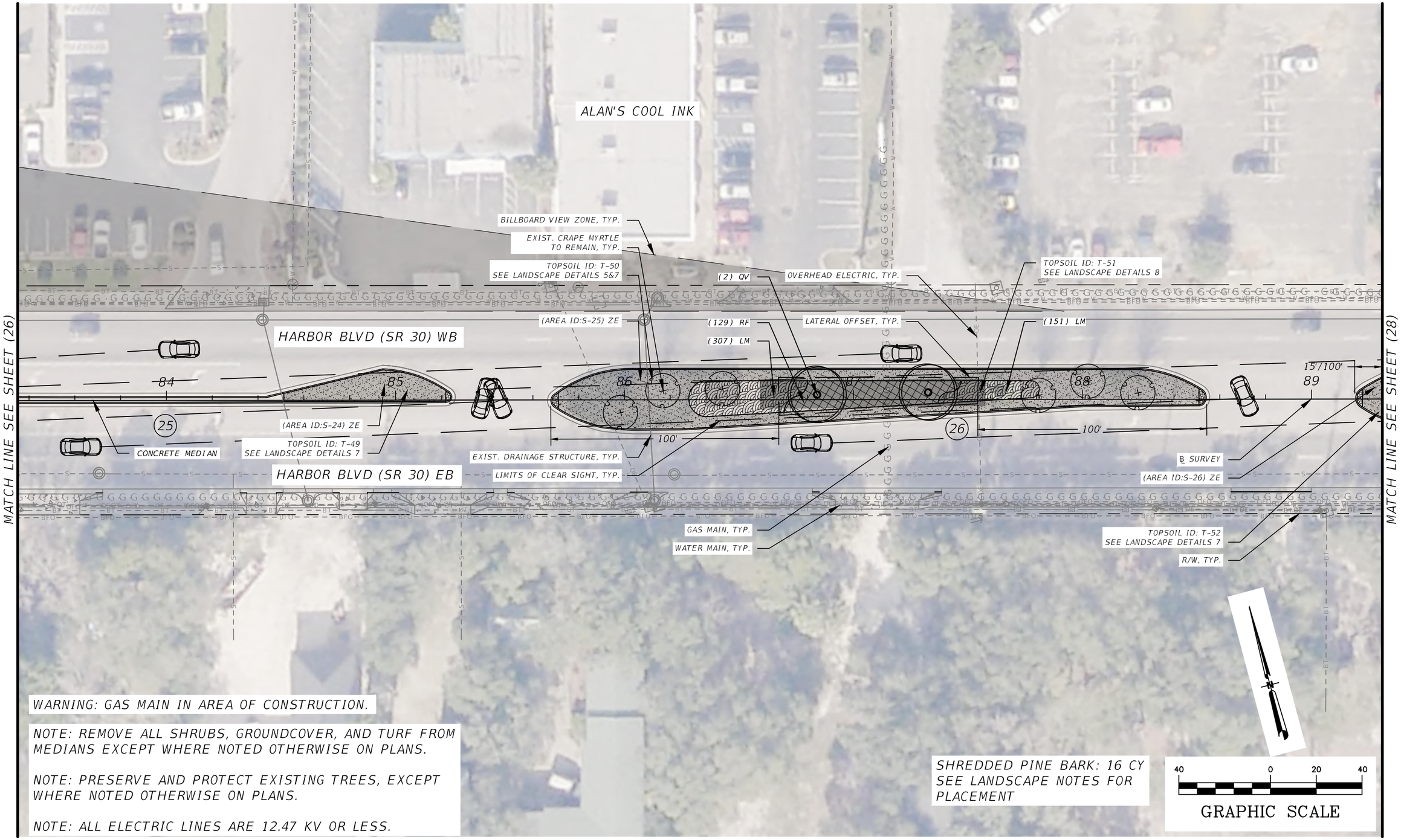
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE PLAN

SHEET NO. 26



WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

NOTE: REMOVE ALL SHRUBS, GROUNDCOVER, AND TURF FROM MEDIANS EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

SHREDDED PINE BARK: 16 CY
SEE LANDSCAPE NOTES FOR PLACEMENT

40 0 20 40
GRAPHIC SCALE

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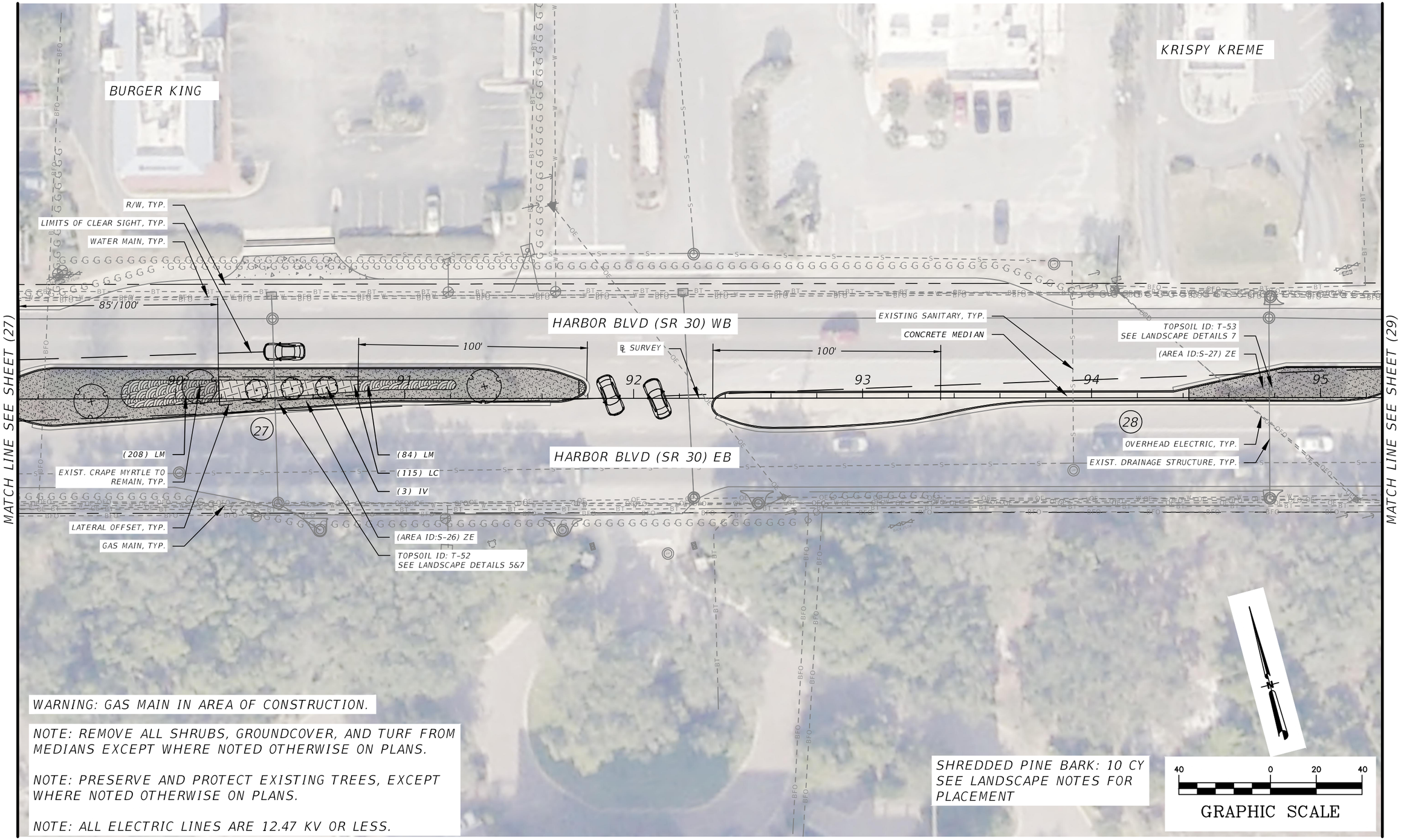
SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE PLAN

SHEET NO. 27



WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

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SHREDDED PINE BARK: 10 CY
SEE LANDSCAPE NOTES FOR PLACEMENT

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SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE PLAN

SHEET NO.
28

CVS

REGIONS BANK

MAIN ST.

11

10

MATCH LINE SEE SHEET (28)

MATCH LINE SEE SHEET (30)

TOPSOIL ID: T-55
SEE LANDSCAPE DETAILS 5&7

(AREA ID:S-27) ZE

6" WATER MAIN

EXIST. SIGN, TYP.

(322) TA

(229) TA

(287) LC

EXISTING SANITARY, TYP.

CONCRETE PAVERS 8 SY

TOPSOIL ID: T-56
SEE LANDSCAPE DETAILS 5&7

(AREA ID:S-28) ZE

LATERAL OFFSET, TYP.

LIMITS OF CLEAR SIGHT, TYP.

EXIST. DRAINAGE STRUCTURE, TYP.

TOPSOIL ID: T-57
SEE LANDSCAPE DETAILS 8

(41) RF

(77) IC

HARBOR BLVD (SR 30) WB

85'/100'

100'

96

97

423

424

426

29

30

HARBOR BLVD (SR 30) EB

TOPSOIL ID: T-55
SEE LANDSCAPE DETAILS 5

TOPSOIL ID: T-54
SEE LANDSCAPE DETAILS 5

STATION EQUATION
STA 97+63.88 BK
=STA 422+51.04 AH

SIGNALIZED
INTERSECTION

(320) TA

(74) RF

(4) OV

EXIST. CRAPE MYRTLE TO
BE REMOVED

℄ SURVEY

OVERHEAD ELECTRIC, TYP.

EXIST. CRAPE MYRTLE TO
REMAIN, TYP.

R/W, TYP.

WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

NOTE: REMOVE ALL SHRUBS, GROUNDCOVER, AND TURF FROM MEDIANS EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

SANDPIPER
COVE BEACH

PINE BARK FINES: 17 CY
SHREDDED PINE BARK: 21 CY
SEE LANDSCAPE NOTES FOR
PLACEMENT

40 0 20 40

GRAPHIC SCALE

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SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE PLAN

SHEET NO. 29

MATCH LINE SEE SHEET (29)

MATCH LINE SEE SHEET (31)

MCDONALD'S

HARBOR BLVD (SR 30) WB

HARBOR BLVD (SR 30) EB

15'/100'

427 428 429 430 431 432

31

EXIST. DRAINAGE STRUCTURE, TYP.

CONCRETE MEDIAN

WATER MAIN, TYP.

BURIED FIBER OPTIC CABLE, TYP.

BURIED ELECTRIC, TYP.

GAS MAIN, TYP.

℄ SURVEY

R/W, TYP.

LIMITS OF CLEAR SIGHT, TYP.

BURIED COMMUNICATION, TYP.

(AREA ID:S-1) ZE

TOPSOIL ID: T-56
SEE LANDSCAPE DETAILS 7

WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

NOTE: REMOVE ALL SHRUBS, GROUNDCOVER, AND TURF FROM MEDIANS EXCEPT WHERE NOTED OTHERWISE ON PLANS.

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NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

40 0 20 40

GRAPHIC SCALE

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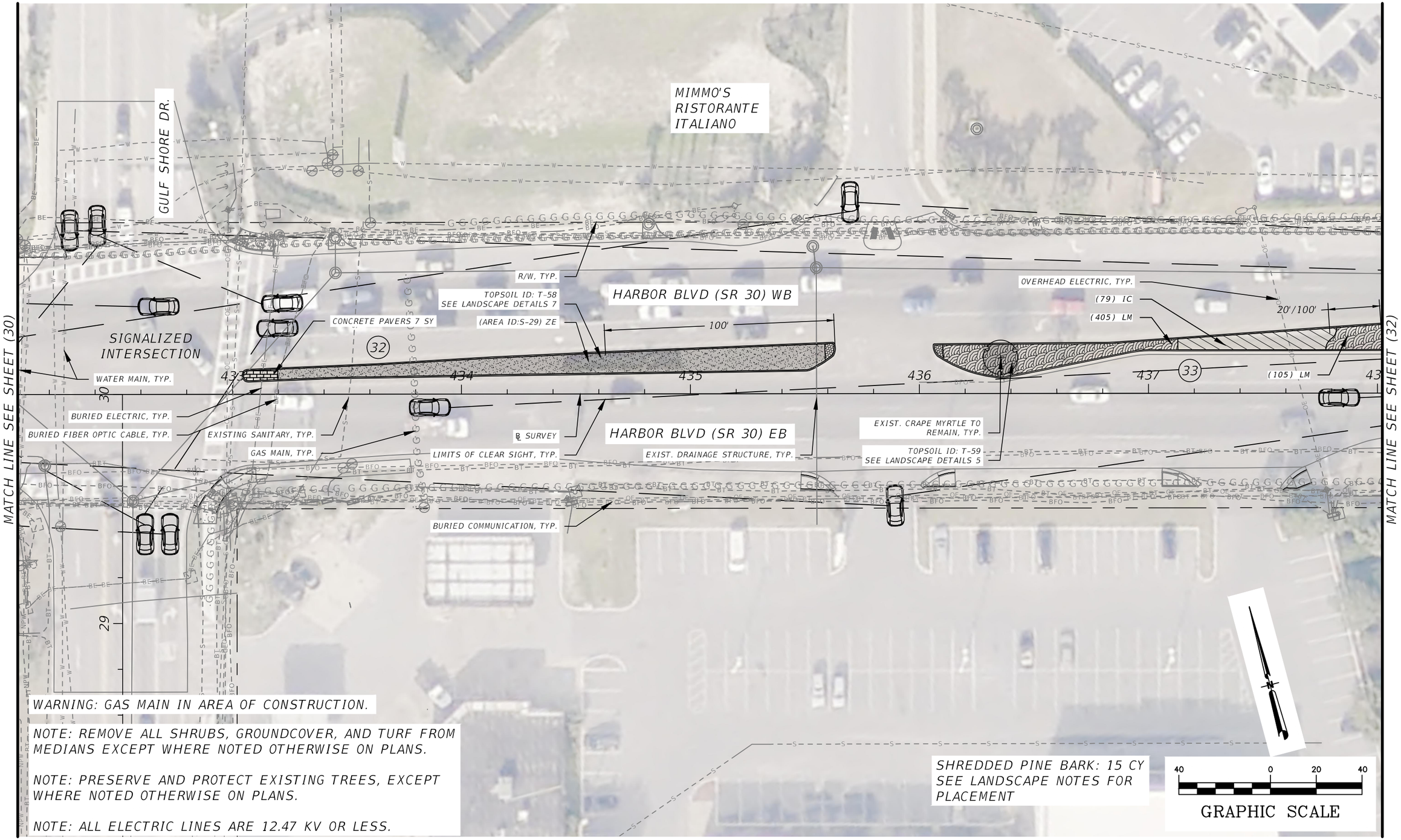
SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE PLAN

SHEET NO. 30



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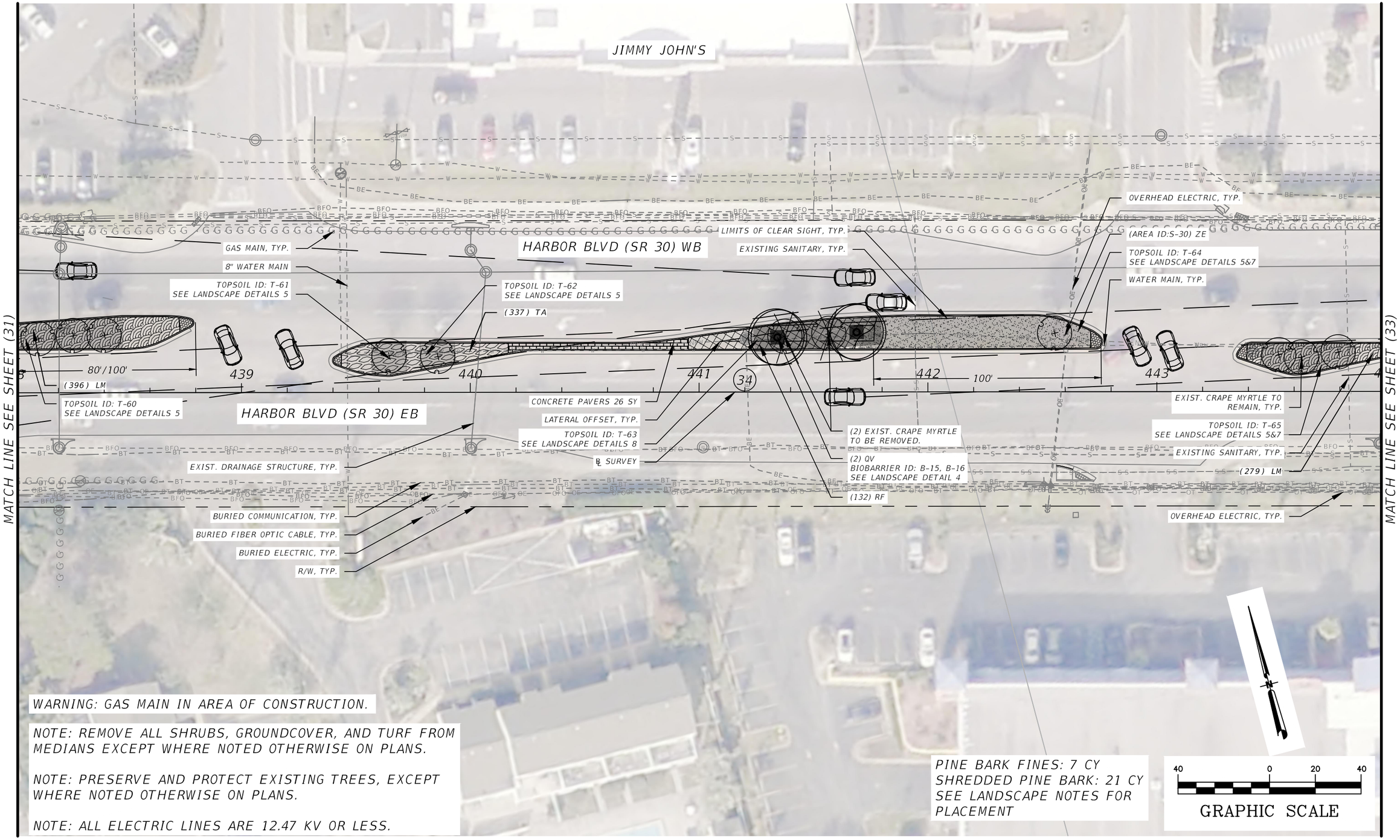
LANDSCAPE PLAN

SHEET NO. 31



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

James S. Gilman, RLA
LA# 1628
AECOM Technical Services, Inc
7650 West Courtney Campbell Causeway
Tampa, FL 33607-1462

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE PLAN

SHEET NO. 32

RACEWAY GAS STATION

PALMS ST.

R/W, TYP.

GAS MAIN, TYP.

LIMITS OF CLEAR SIGHT, TYP.

8" WATER MAIN

LATERAL OFFSET, TYP.

(106) IC

(545) LM

(7) IV

TOPSOIL ID: T-66
SEE LANDSCAPE DETAILS 5&7

HARBOR BLVD (SR 30) WB

100'

36

35

444

445

446

447

448

449

CONCRETE PAVERS 50 SY

(23) LM

HARBOR BLVD (SR 30) EB

(278) LM

8" WATER MAIN

GAS MAIN, TYP.

℄ SURVEY

EXIST. LIGUSTRUM TO BE REMOVED.

BURIED ELECTRIC, TYP.

TOPSOIL ID: T-67
SEE LANDSCAPE DETAILS 5&7

EXIST. DRAINAGE STRUCTURE, TYP.

(AREA ID:S-31) ZE

EXIST. CRAPE MYRTLE TO REMAIN, TYP.

BURIED FIBER OPTIC CABLE, TYP.

OVERHEAD ELECTRIC, TYP.

BURIED COMMUNICATION, TYP.

EXISTING SANITARY, TYP.

SANDPRINT DR

WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

NOTE: REMOVE ALL SHRUBS, GROUNDCOVER, AND TURF FROM MEDIANS EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

SHREDDED PINE BARK: 23 CY
SEE LANDSCAPE NOTES FOR PLACEMENT

40 0 20 40

GRAPHIC SCALE

MATCH LINE SEE SHEET (32)

MATCH LINE SEE SHEET (34)

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SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE PLAN

SHEET NO. 33

BIG KAHUNA'S
WATER &
ADVENTURE PARK

HARBOR BLVD (SR 30) WB

HARBOR BLVD (SR 30) EB

MATCH LINE SEE SHEET (33)

MATCH LINE SEE SHEET (35)

R/W, TYP.

GAS MAIN, TYP.

OVERHEAD ELECTRIC, TYP.

BURIED ELECTRIC, TYP.

(394) TA

(48) IC

(AREA ID:S-31) ZE

TOPSOIL ID: T-67
SEE LANDSCAPE DETAILS 5&7

BURIED FIBER OPTIC CABLE, TYP.

8" WATER MAIN, TYP.

℄ SURVEY

EXIST. LIGUSTRUM
TO BE REMOVED

EXISTING SANITARY, TYP.

BURIED COMMUNICATION, TYP.

8" WATER MAIN, TYP.

EXIST. CRAPE MYRTLE TO
BE REMOVED

(2) QV
BIOBARRIER ID: B-1
SEE LANDSCAPE DETAIL 4

(AREA ID:S-32) ZE

TOPSOIL ID: T-68
SEE LANDSCAPE DETAILS 5&7

LATERAL OFFSET, TYP.

EXIST. LIGUSTRUM TO
BE REMOVED

TOPSOIL ID: T-69
SEE LANDSCAPE DETAILS 8

EXIST. SABAL PALM
TO BE REMOVED

EXIST. DRAINAGE STRUCTURE, TYP.

(124) LC

(319) TC

(223) LC

(35) YF/(35) LM

EXIST. SIGN, TYP.

MID-BLOCK CROSSING

LIMITS OF CLEAR SIGHT, TYP.

TOPSOIL ID: T-73
SEE LANDSCAPE DETAILS 5

TOPSOIL ID: T-72
SEE LANDSCAPE DETAILS 5

EXIST. CRAPE MYRTLE TO
REMAIN, TYP.

(173) TC

(270) LM

TOPSOIL ID: T-71
SEE LANDSCAPE DETAILS 5

TOPSOIL ID: T-70
SEE LANDSCAPE DETAILS 5

(35) YF/(35) LM

(6) LIMESTONE BOULDER

BURIED ELECTRIC, TYP.

450

451

452

453

454

455

100'

80'/100'

37

WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

NOTE: REMOVE ALL SHRUBS, GROUNDCOVER, AND TURF FROM MEDIANS EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

PINE BARK FINES: 18 CY
SHREDDED PINE BARK: 25 CY
SEE LANDSCAPE NOTES FOR
PLACEMENT

40 0 20 40

GRAPHIC SCALE

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SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE PLAN

SHEET NO. 34

SUNOCO GAS STATION

GAS MAIN, TYP.

R/W, TYP.

HARBOR BLVD (SR 30) WB

HARBOR BLVD (SR 30) EB

LIMITS OF CLEAR SIGHT, TYP.

OVERHEAD ELECTRIC, TYP.

8" WATER MAIN, TYP.

100'

20'/100'

40'/100'

38

39

456

457

458

459

460

461

(267) TC

(239) LM

CONCRETE PAVERS 17 SY

(114) TC

℄ SURVEY

EXIST. SIGN, TYP.

BURIED ELECTRIC, TYP.

EXIST. LIGUSTRUM TO REMAIN

(61) LM

EXIST. CRAPE MYRTLE TO REMAIN, TYP.

(36) RF

(139) LM

EXIST. LIGUSTRUM TO REMAIN

(178) TA

TOPSOIL ID: T-75
SEE LANDSCAPE DETAILS 5

(AREA ID:S-1) ZE

TOPSOIL ID: T-74
SEE LANDSCAPE DETAILS 5&7

EXIST. DRAINAGE STRUCTURE, TYP.

OVERHEAD ELECTRIC, TYP.

BURIED COMMUNICATION, TYP.

EXISTING SANITARY, TYP.

ALVIN'S ISLAND

MATCH LINE SEE SHEET (34)

MATCH LINE SEE SHEET (36)

WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

NOTE: REMOVE ALL SHRUBS, GROUNDCOVER, AND TURF FROM MEDIANS EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

PINE BARK FINES: 9 CY
SHREDDED PINE BARK: 13 CY
SEE LANDSCAPE NOTES FOR PLACEMENT

40 0 20 40

GRAPHIC SCALE

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LANDSCAPE PLAN

SHEET NO. 35

MATCH LINE SEE SHEET (35)

MATCH LINE SEE SHEET (37)

DAYS INN BY WYNDHAM DESTIN

EXIST. CRAPE MYRTLE TO REMAIN, TYP.

TOPSOIL ID: T-76
SEE LANDSCAPE DETAILS 5

R/W, TYP.

BILLBOARD VIEW ZONE, TYP.

LIMITS OF CLEAR SIGHT, TYP.

OVERHEAD ELECTRIC, TYP.

8" WATER MAIN, TYP.

TOPSOIL ID: T-77
SEE LANDSCAPE DETAILS 5

OVERHEAD ELECTRIC, TYP.

CONCRETE PAVERS 23 SY

HARBOR BLVD (SR 30) WB

EXISTING SANITARY, TYP.

OVERHEAD ELECTRIC, TYP.

OVERHEAD ELECTRIC, TYP.

EXIST. SIGN, TYP.

100'

462

463

40

464

465

466

41

467

(487) LM

(197) TA

60'/100'

TOPSOIL ID: T-78
SEE LANDSCAPE DETAILS 5&7

℄ SURVEY

TOPSOIL ID: T-79
SEE LANDSCAPE DETAILS 5

(243) TA

HARBOR BLVD (SR 30) EB

CONCRETE MEDIAN, TYP.

GAS MAIN, TYP.

(AREA ID:S-1) ZE

TOPSOIL ID: T-80
SEE LANDSCAPE DETAILS 7

BURIED COMMUNICATION, TYP.

EXISTING SANITARY, TYP.

EXIST. DRAINAGE STRUCTURE, TYP.

BANK OF AMERICA

WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

NOTE: REMOVE ALL SHRUBS, GROUNDCOVER, AND TURF FROM MEDIANS EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

PINE BARK FINES: 9 CY
SHREDDED PINE BARK: 10 CY
SEE LANDSCAPE NOTES FOR PLACEMENT

40 0 20 40

GRAPHIC SCALE

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LANDSCAPE PLAN

SHEET NO. 36

CHICK-FIL-A

WAFFLE HOUSE

BILLBOARD VIEW ZONE, TYP.

R/W, TYP.

TAG #: BH463
OWNER: LAMAR ADV FT WALTON

TAG #: BQ996
OWNER: LAMAR ADV FT WALTON

6" WATER MAIN

EXIST. SIGN, TYP.

EXIST. DRAINAGE STRUCTURE, TYP.

(15) YF/(14) LC

LIMITS OF CLEAR SIGHT, TYP.

OVERHEAD ELECTRIC, TYP.

(114) LM

8" WATER MAIN, TYP.

CONCRETE PAVERS 26 SY

TOPSOIL ID: T-83
SEE LANDSCAPE DETAILS 5&7

MID-BLOCK CROSSING

(AREA ID:S-35) ZE

EXIST. SIGN, TYP.

(AREA ID:S-37) ZE

OVERHEAD ELECTRIC, TYP.

(21) YF/(21) LC

HARBOR BLVD (SR 30) WB

(237) LM

TOPSOIL ID: T-81
SEE LANDSCAPE DETAILS 5&7

(AREA ID:S-1) ZE

42

43

468

469

470

471

472

473

100'

(AREA ID:S-36) ZE

HARBOR BLVD (SR 30) EB

(6) LIMESTONE BOULDER

EXIST. CRAPE MYRTLE TO REMAIN, TYP. PRUNE (2) CRAPE MYRTLE TREES IN MEDIAN #42, SEE PLANTING AREA PREPARATION NOTES.

TOPSOIL ID: T-82
SEE LANDSCAPE DETAILS 7

TOPSOIL ID: T-80
SEE LANDSCAPE DETAILS 7

℄ SURVEY

GAS MAIN, TYP.

BURIED COMMUNICATION, TYP.

MATCH LINE SEE SHEET (36)

MATCH LINE SEE SHEET (38)

WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

NOTE: REMOVE ALL SHRUBS, GROUNDCOVER, AND TURF FROM MEDIANS EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

SHREDDED PINE BARK: 10 CY
SEE LANDSCAPE NOTES FOR PLACEMENT

40 0 20 40

GRAPHIC SCALE

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LANDSCAPE PLAN

SHEET NO. 37

MATCH LINE SEE SHEET (37)

MATCH LINE SEE SHEET (39)

BILLBOARD VIEW ZONE, TYP.

8" WATER MAIN, TYP.

EXIST. DRAINAGE STRUCTURE, TYP.

GAS MAIN, TYP.

OVERHEAD ELECTRIC, TYP.

TOPSOIL ID: T-86
SEE LANDSCAPE DETAILS 5&7

(AREA ID:S-40) ZE

EXISTING SANITARY, TYP.

CONCRETE PAVERS 24 SY

TOPSOIL ID: T-85
SEE LANDSCAPE DETAILS 7

TOPSOIL ID: T-84
SEE LANDSCAPE DETAILS 7

(AREA ID:S-39) ZE

(AREA ID:S-38) ZE

HARBOR BLVD (SR 30) WB

TOPSOIL ID: T-87
SEE LANDSCAPE DETAILS 8

LATERAL OFFSET, TYP.

EXIST. LIGUSTRUM TO BE REMOVED.

45'/100'

100'

100'

474

475

44

476

477

45

478

479

(121) TC

(AREA ID:S-41) ZE

TOPSOIL ID: T-88
SEE LANDSCAPE DETAILS 5&7

HARBOR BLVD (SR 30) EB

(1) QV
BIOBARRIER ID: B-19
SEE LANDSCAPE DETAIL 4

(21) RF

(72) TC

EXIST. CRAPE MYRTLE TO REMAIN, TYP.

℄ SURVEY

LIMITS OF CLEAR SIGHT, TYP.

R/W, TYP.

WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

NOTE: REMOVE ALL SHRUBS, GROUNDCOVER, AND TURF FROM MEDIANS EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

PINE BARK FINES: 4 CY
SHREDDED PINE BARK: 1 CY
SEE LANDSCAPE NOTES FOR PLACEMENT

40 0 20 40

GRAPHIC SCALE

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SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE PLAN

SHEET NO. 38

MARY'S KITCHEN

AIRPORT RD.

TOPSOIL ID: T-88
SEE LANDSCAPE DETAILS 5&7

(AREA ID:S-41) ZE

R/W, TYP.

LIMITS OF CLEAR SIGHT, TYP.

HARBOR BLVD (SR 30) WB

(217) TC

100'

SIGNALIZED INTERSECTION

55'/100'

480

46

481

(66) RF

(228) TC

℄ SURVEY

(AREA ID:S-42) ZE

HARBOR BLVD (SR 30) EB

END PROJECT
M.P. 20.418
STA. 482+00

TOPSOIL ID: T-89
SEE LANDSCAPE DETAILS 5&7

EXISTING SANITARY, TYP.

MATCH LINE SEE SHEET (38)

COMPASS RESORTS AT SILVER BEACH TOWERS

WARNING: GAS MAIN IN AREA OF CONSTRUCTION.

NOTE: REMOVE ALL SHRUBS, GROUNDCOVER, AND TURF FROM MEDIANS EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: PRESERVE AND PROTECT EXISTING TREES, EXCEPT WHERE NOTED OTHERWISE ON PLANS.

NOTE: ALL ELECTRIC LINES ARE 12.47 KV OR LESS.

PINE BARK FINES: 9 CY
SHREDDED PINE BARK: 4 CY
SEE LANDSCAPE NOTES FOR PLACEMENT

40 0 20 40

GRAPHIC SCALE

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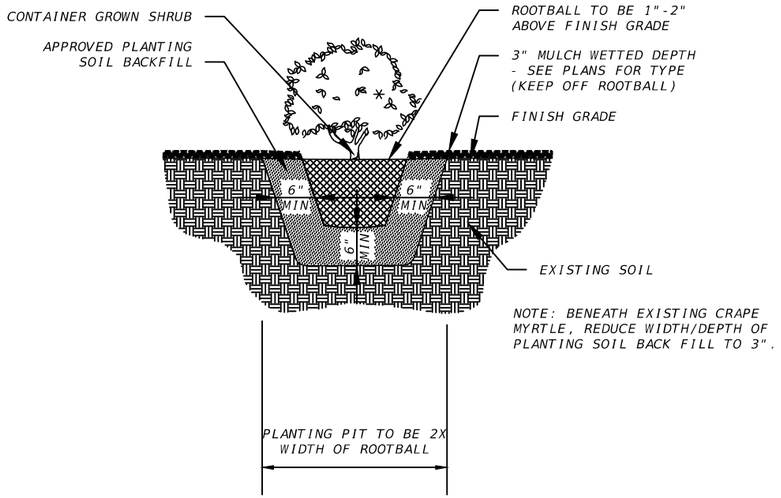
LANDSCAPE PLAN

SHEET NO. 39



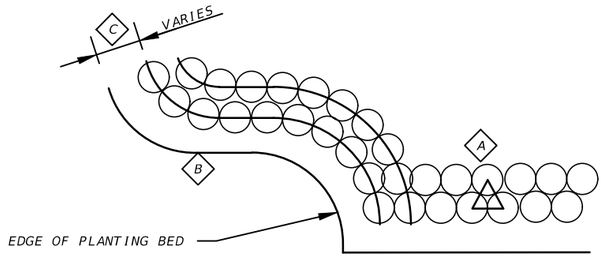
1 NTS **SHRUB/GROUNDCOVER PLANTING DETAIL SECTION**

NOTE: REFER TO STANDARD PLANS 580-001 FOR OTHER PLANTING AND STAKING REQUIREMENT.

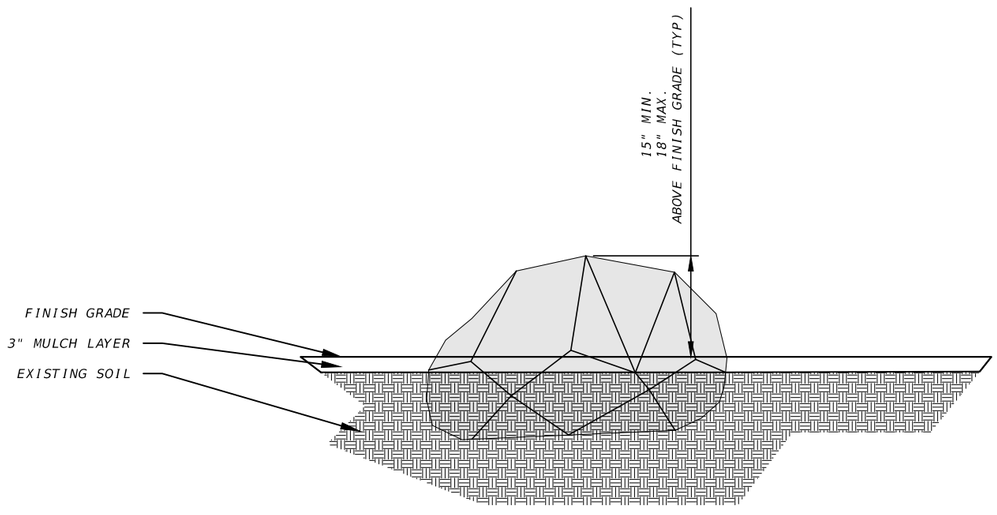
A SHRUBS & GROUNDCOVERS ADJACENT TO STRAIGHT EDGES SHALL BE TRIANGULAR SPACED IN ROWS PARALLEL TO THE STRAIGHT EDGE.

B SHRUBS & GROUNDCOVERS ADJACENT TO CURVED EDGES SHALL BE PLANTED IN ROWS PARALLEL TO THE CURVED EDGE.

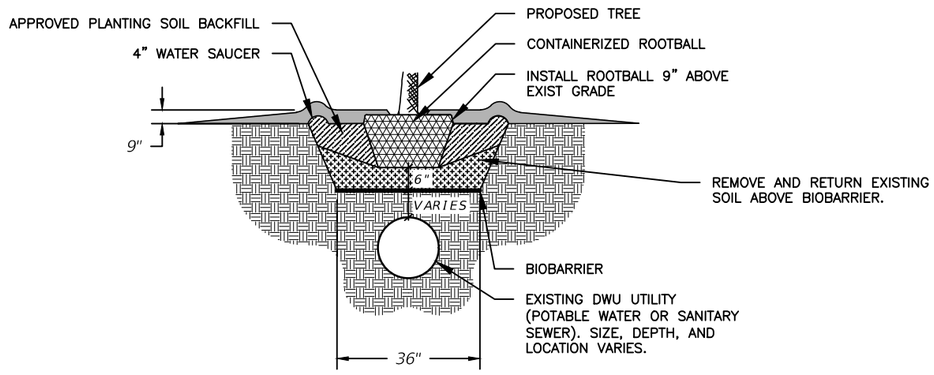
C DISTANCE SHALL BE THE INDICATED ON-CENTER SPACING FOR THE SHRUB OR GROUNDCOVER.



2 NTS **SHRUB/GROUNDCOVER LAYOUT DETAIL PLAN**



3 NTS **LIMESTONE BOULDER DETAIL**



NOTES
1) EXCAVATE PLANTING PIT 6" DEEPER THAN TREE ROOTBALL.
2) BOTTOM OF PLANTING PIT SHALL BE LEVEL AND FLAT, SUCH THAT 36" X 36" BIOBARRIER IS LAID FLAT ON BOTTOM.

4 NTS **OAK PLANTING WITH BIOBARRIER INSTALLATION DETAIL**

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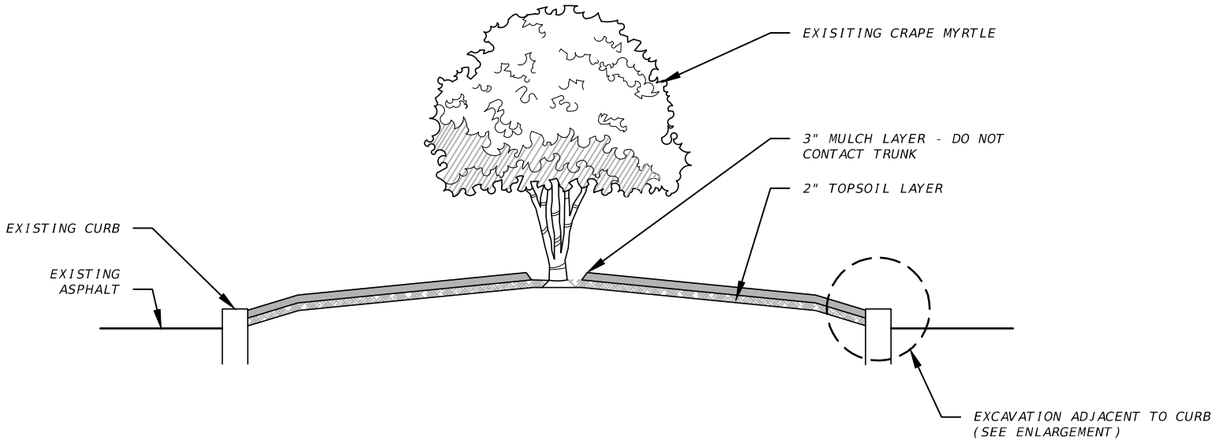
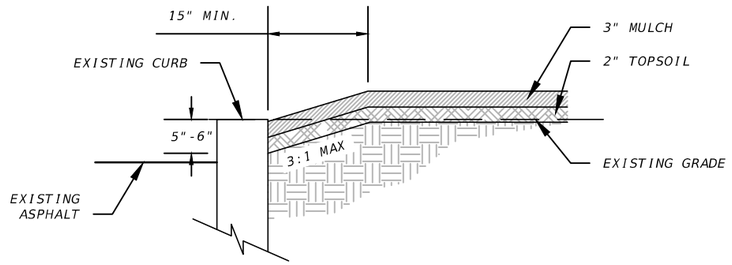
LANDSCAPE DETAILS

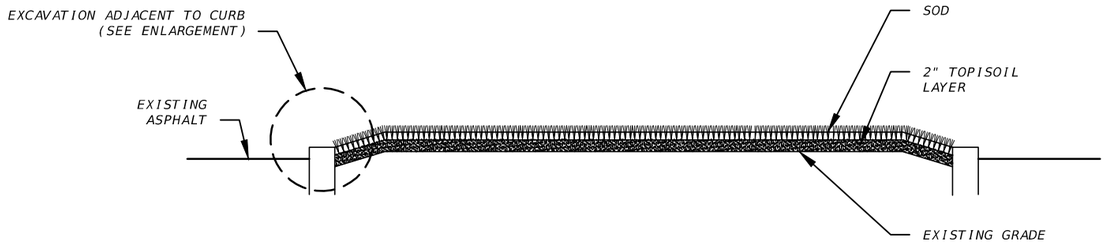
SHEET NO. 40



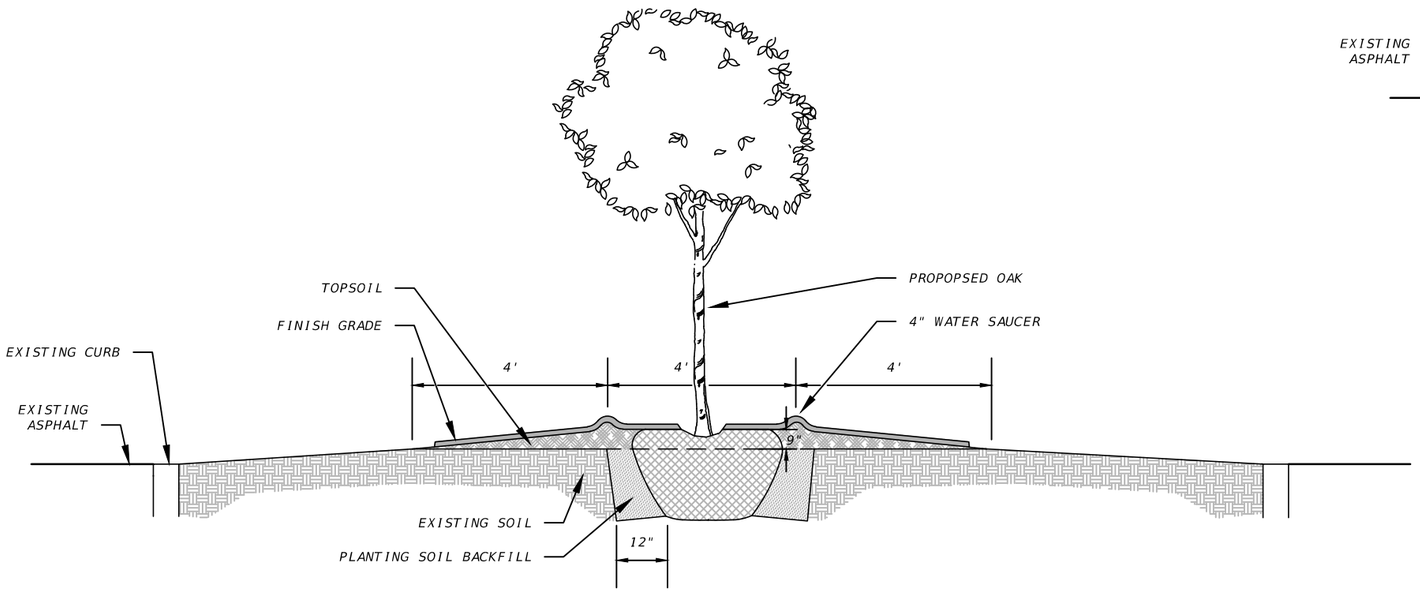
5 NTS GRADING AND TOPSOIL DETAIL
CRAPE MYRTLE AREAS



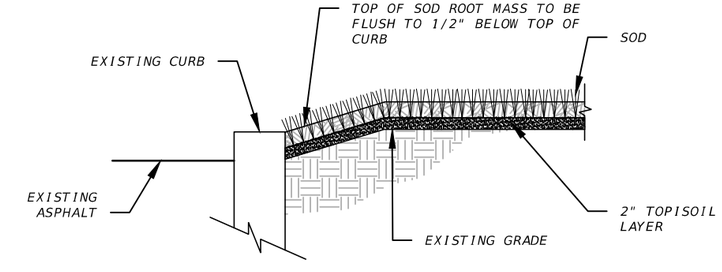
6 NTS CURB AREA ENLARGEMENT
CRAPE MYRTLE AREAS



7 NTS GRADING DETAIL
SOD AREAS



8 NTS OAK PLANTING AND TOPSOIL PLACEMENT DETAIL



9 NTS CURB AREA ENLARGEMENT
SOD AREAS

REVISIONS			
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LANDSCAPE DETAILS

SHEET NO. 41

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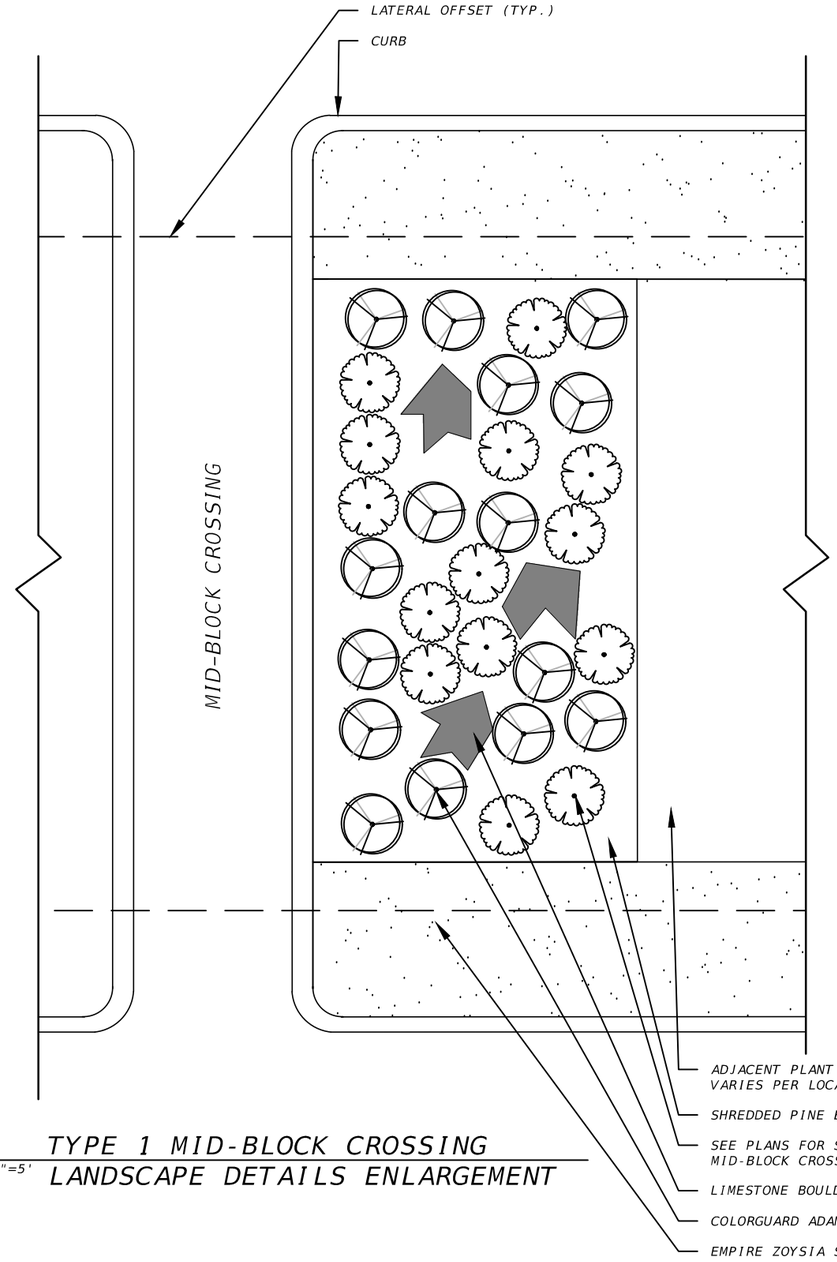
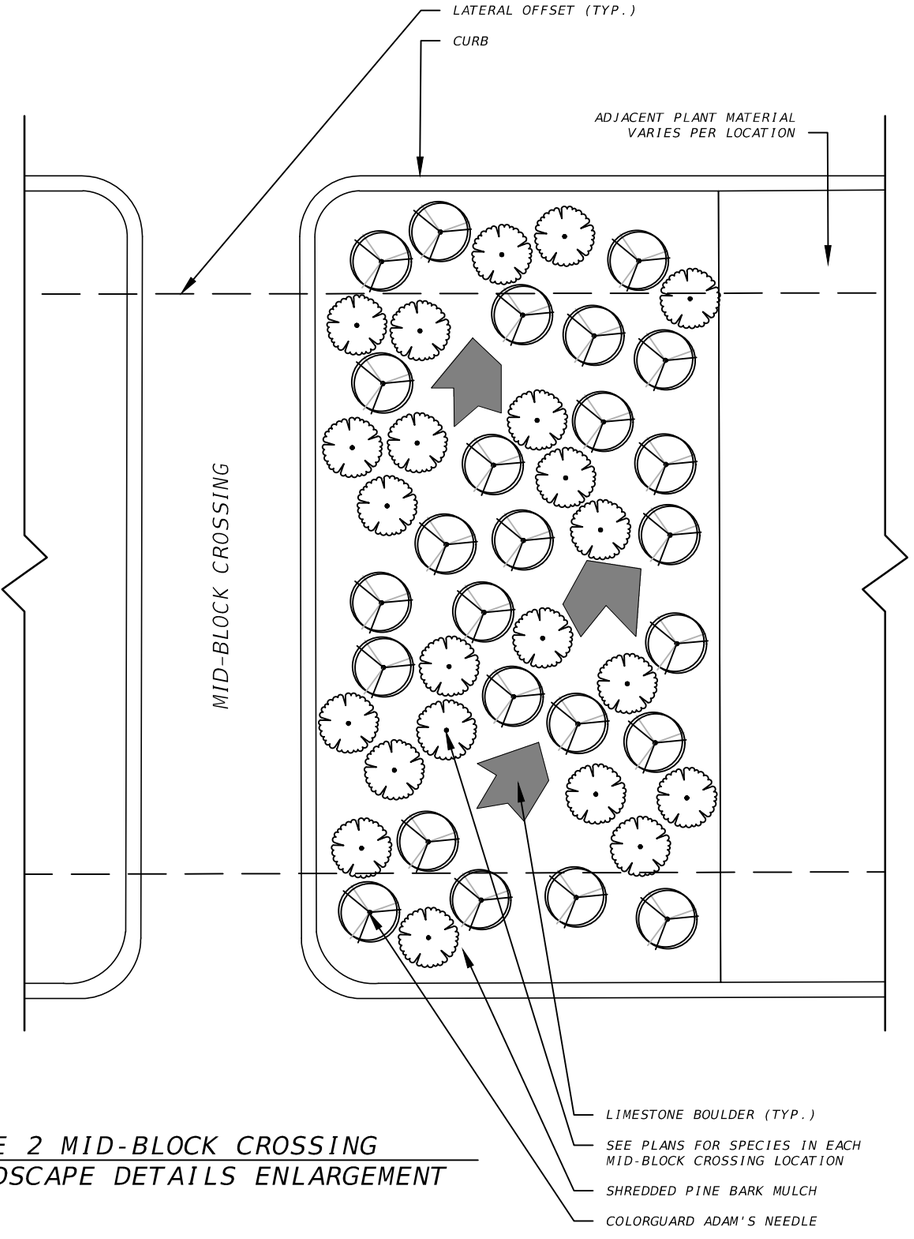


10 1"=5' TYPE 1 MID-BLOCK CROSSING
LANDSCAPE DETAILS ENLARGEMENT



11 1"=5' TYPE 2 MID-BLOCK CROSSING
LANDSCAPE DETAILS ENLARGEMENT

NOTES:
1) BOULDERS TO BE PLACED MIN. 2 FT FROM EDGE OF CURB ALONG CROSSWALK.
2) BOULDERS TO BE PLACED OUTSIDE LATERAL OFFSET.

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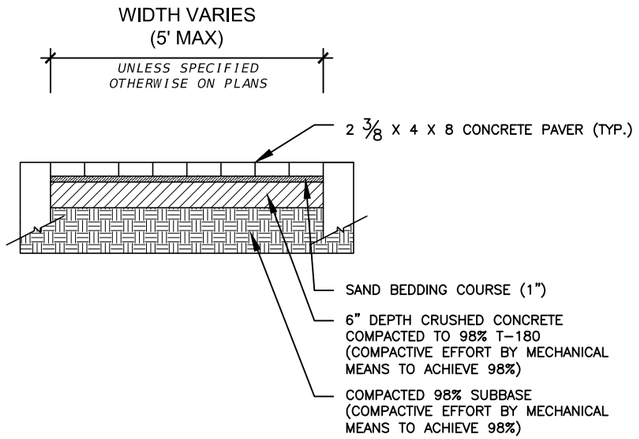
LA# 1628
AECOM Technical Services, Inc
7650 West Courtney Campbell Causeway
Tampa, FL 33607-1462

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

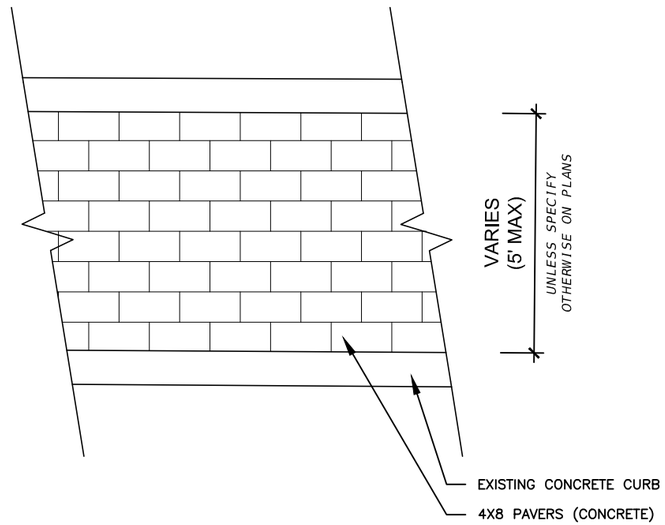
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

LANDSCAPE DETAILS

SHEET NO. 42



1 NTS *CONCRETE PAVER DETAIL SECTION VIEW*



2 NTS *CONCRETE PAVER DETAIL PLAN VIEW*

NOTE:
1. PRECAST CONCRETE PAVERS INSTALLED IN AREAS AS INDICATED ON PLANS SHALL BE 4X8 RUNNING BOND PATTERN, INSTALLED WITH LONG SIDE PARALLEL TO CURB.
2. PAVERS TO BE FLUSH AND EVEN. USE MECHANICAL VIBRATOR TO TAMP AND LEVEL ALL PAVERS. APPLY WASHED SUGAR SAND TO ALL JOINTS AND SWEEP CLEAN.
3. PAVERS TO BE FLUSH WITH ADJACENT CURBS.
4. PAVERS COLOR TO BE TREMON 4X8 BRICK PAVERS PRODUCT CODE PV21040, COLOR "CORAL" OR APPROVED EQUAL.
5. SUBMIT PAVER SAMPLE FOR APPROVAL BY ENGINEER AND LANDSCAPE ARCHITECT PRIOR TO ANY PAVER DELIVERY TO SITE.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

James S. Gilman, RLA
LA# 1628
AECOM Technical Services, Inc
7650 West Courtney Campbell Causeway
Tampa, FL 33607-1462

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

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SR 30	OKALOOSA	445907-1-52-01

HARDSCAPE DETAILS

SHEET NO. 43

IRRIGATION NOTES:

1. VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. MAINLINE SHALL NOT BE LOCATED OR INSTALLED WITHOUT PRIOR APPROVAL OF THE ENGINEER. ALL UTILITIES AND STRUCTURES MAY NOT BE SHOWN ON PLANS.

2. THE DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC, THE LOCATIONS OF THE EQUIPMENT SHALL BE COORDINATED IN THE FIELD, AND ADJUSTED AS NECESSARY TO AVOID CONFLICTS, AND TO REACT TO FIELD VARIABLES, DUE TO SMALL SCALE DRAWINGS, IT IS OFTEN NECESSARY TO SHOW PIPING OR OTHER ELEMENTS OUTSIDE RIGHTS-OF-WAY OR IN PAVEMENT AREAS. THE INSTALLATION OF ALL PIPING AND OTHER EQUIPMENT SHALL BE IN PERVIOUS AREAS AND WITHIN RIGHTS-OF-WAY UNLESS IT IS SPECIFICALLY NOTED TO THE CONTRARY.

3. FIELD ALTERNATIONS MADE IN THE IRRIGATION CONTRACT DRAWINGS MUST BE IN THE BEST INTEREST OF THE PLANT MATERIAL, SOD, AND LANDSCAPE IRRIGATION SYSTEM. CHANGES MADE BY THE IRRIGATION CONTRACTOR WHICH ARE DEEMED, BY THE DISTRICT LANDSCAPE ARCHITECT AND PROJECT ENGINEER, NOT TO BE IN CONFORMITY WITH THIS CRITERIA WILL BE REMOVED AND REPLACED AT THE IRRIGATION CONTRACTOR'S EXPENSE. IF A QUESTION SHOULD ARISE AS TO THE BEST WAY TO COMPLETE A FIELD ALTERNATION, CONTRACT THE DISTRICT LANDSCAPE ARCHITECT AND PROJECT ENGINEER FOR APPROVAL.

4. THE CONTRACTOR SHALL STAKE OUT THE LOCATION OF EACH RUN OF PIPE, BUBBLERS. DRIP SUPPLY POINTS, AND CONTROL VALVES PRIOR TO TRENCHING. TRENCHES FOR PIPE SHALL BE CUT TO REQUIRED GRADE LINES AND COMPATED TO PROVIDE ACCURATE GRADE AND UNIFORM BEARING FOR THE FULL LENGTH OF THE LINE.

5. TRENCHES MUST BE PROTECTED FROM VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES. IT WILL BE THE IRRIGATION CONTRACTOR'S RESPONSIBILITY TO BARRICADE AND DIVERT TRAFFIC.

6. ALL TRENCHES IN PROXIMITLY OF EXISTING TREES TO BE HAND EXCAVATED TO AVOID CONFLICTS WITH TREES.

7. NO ROOTS SHALL BE CUT WITHIN THE ROOT BALL AREA OF ALL EXISTING TREES. IRRIGATION PIPES AND CONDUIT SHOULD BE HAND-DUG OR DIRECTIONAL BORED.

8. PRIOR TO SLEEVE INSTALLATIONS AND IRRIGATION PIPE TRENCHING, BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH FOR ALL UTILITIES WITHIN THE PROJECT AREA. NOTIFY THE PROJECT ENGINEER PRIOR TO DRILLING OF EACH DIRECTIONAL BORE. AVOID CONFLICTS WITH ALL EXISTING UTILITIES.

9. ALL PRESSURE MAINLINES UNDER ROADWAY PAVEMENT SHALL BE WITHIN SLEEVES AS NOTED. CONTROL WIRING IN CONDUIT MAY SHARE SLEEVES WHERE SHOWN ON THE PLANS.

10. ALL SLEEVES AND DIRECTIONAL BORES UTILIZED BY THE IRRIGATION CONTRACTOR, WHETHER INSTALLED BY HIM OR NOT, SHALL BE LOCATED ON THE "AS-BUILT" DRAWINGS. "AS-BUILT" DRAWINGS ARE INCLUDED IN THE SCOPE OF WORK AND SHALL BE SUBMITTED FOR ENGINEER APPROVAL. THE DEPTH BELOW FINISH GRADE, TO THE NEAREST FOOT OF EACH AND OF EACH SLEEVE SHALL BE NOTES AT EACH SLEEVE/BORE LOCATION ON THE "AS-BUILT" DRAWINGS.

11. ALL UNSIZED PIPE SHALL BE 3/4" UNLESS OTHERWISE NOTED.

12. LATERAL PIPE TO BE SIZED AS NOT TO EXCEED FIVE FEET PER SECOND BASED ON STANDARD CLASS 200 PVC CHARACTERISTICS.
    3/4" 0-8 GPM
    1" 9-13 GPM
    1 1/4" 14-19 GPM
    1 1/2" 20-25 GPM
    2" 26-50 GPM

13. ALL VALVES SHALL BE INSTALLED IN TIER 8 POLYMER CONCRETE VALVE BOX WITH A LOCKING LID.

14. THE IRRIGATION AND LANDSCAPE CONTRACTORS SHALL COORDINATE THE PLACEMENT OF THE IRRIGATION EQUIPMENT AND LANDSCAPE MATERIAL WITHIN THE PLANTED AREAS. THE IRRIGATION CONTRACTOR SHALL INSTALL HIS MATERIAL AT THE EDGE OF THE PLANTED AREAS AVOIDING PLANTS, ROOTBALLS, LIGHTS, BOLLARDS, FENCES, ETC.

15. POP-UP SPRAY HEADS SHALL BE INSTALLED IN ALL TURF AND PLANT AREAS, LANDSCAPE BUBBLERS TO BE INSTALLED ON ALL TREES.

16. POP-UP ROTOR HEADS SHALL BE INSTALLED IN AREAS WHERE THE LONG RADIUS COVERAGE INTENDED WILL NOT BE BLOCKED BY PLANT MATERIAL OR OTHER STRUCTURES (EX: SIGNS, FIRE HYDRANTS, WALLS ETC.)

17. CHANGES IN HEAD PLACEMENT OR DRIP SUBSTITUTION SHOULD ALWAYS BE DONE TAKING INTO CONSIDERATION:

A. WHAT IS BEST FOR THE GROWTH AND MAINTENANCE OF THE SOD AND PLANT MATERIAL.

B. MAINTAINING A CONSTANT AND EVEN DISTRIBUTION AND PRECIPITATION RATE. (NEVER INSTALL ROTORS, SPRAYS OR BUBBLERS ON THE SAME ZONE).

C. THE SPACING BETWEEN HEADS SHALL NOT EXCEED 50% OF THE DIAMETER FOR HEADS SPACED ON A SQUARE PATTERN OR 60% OF THE DIAMETER FOR HEADS SPACED ON A TRIANGULAR PATTERN.

18. POP-UP SPRINKLER HEADS SHALL BE INSTALLED:

A. 3" TO 6" FROM EDGE OF CURB OR SIDEWALK.

B. 12" TO 18" FROM EDGE OF PAVEMENT (WHERE NO CURB EXISTS)

C. FLUSH WITH FINISH GRADE.

19. COMMUNICATION CABLE FOR DECODERS SHALL BE 14-2 AWG COMMUNICATION CABLE TO BE LAID ALONG SIDE OF IRRIGATION MAINLINE. A 3/4" CONDUIT SHALL BE UTILIZED WHEN ROUTED IN A SLEEVE WITH THE IRRIGATION MAINLINE. ORANGE COLOR CABLE TO BE ROUTED FROM THE CONTROLLER TO THE EAST. YELLOW COLOR CABLE TO BE ROUTED FROM THE CONTROLLER TO THE WEST.

20. ALL CONNECTIONS TO FIELD DECODERS ALONG THE 2-WIRE PATH SHALL BE ACCOMPLISHED VIA THE USE OF 3M DBR-6 WIRE CONNECTORS OR EQUAL. THIS ALSO INCLUDES ALL GROUND RODS AND CONNECTION TO THE CONTROLLER. FOLLOW MANUFACTURER'S INSTALLATION RECOMMENDATIONS.

21. DURING INSTALLATION AND UPON COMPLETION OF THE IRRIGATION SYSTEM, VALVES SHALL BE OPERATED BY THE CONTROLLER PER THE IRRIGATION ZONE NUMBERS AS SHOWN ON THE PLANS.

22. SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE ENGINEER. ALL WORK WITHIN THE FDOT RIGHT-OF-WAY SHALL CONFORM TO THE STANDARD SPECIFICATIONS.

23. TIE INTO EXISTING ELECTRICAL SUPPLIES AS SHOWN ON PLANS.

24. VERIFY ALL ELECTRICAL METER POWER CONNECTION POINT LOCATIONS AT PROJECT SITE WITH ENGINEER. BE RESPONSIBLE FOR ANY ELECTRICAL METER INSTALLATION FEES IF APPLICABLE AND MONTHLY SERVICE FEES.

25. INSTALL METALIZED IDENTIFICATION TAPE ABOVE ALL IRRIGATION MAINLINES AS SHOWN ON TRENCHING DETAIL.

26. INSTALLATION OF ALL IRRIGATION WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON SITE.

27. MAINTAIN ALL IRRIGATION SYSTEMS IN A SAFE AND OPERATIONAL CONDITION DURING CONSTRUCTION AND THROUGHOUT THE CONTRACT PERIOD.

28. KEEP A DAILY AND ACCURATE RECORDING OF WORK PERFORMED AND PROVIDE TO THE ENGINEER UPON REQUEST. PROVIDE "AS-BUILT" RECORD DRAWINGS TO THE ENGINEER AT PROJECT COMPLETION.

29. PROVIDE A SCHEDULE OF VALUES FOR ALL MATERIALS AND INCIDENTALS SPECIFIED IN THE PLANS.

30. PRODUCTS ARE INDICATED AS A BASIS OF BID, OR APPROVED EQUAL.

GENERAL ELECTRICAL NOTES:

1. ELECTRICAL INSTALLATIONS SHALL CONFORM WITH ALL APPLICABLE CODES, LAWS, AND STATUES, ANSI C2 "NATIONAL ELECTRICAL SAFETY CODE', NFPA 70 "NATIONAL ELECTRICAL CODE", AND THE AUTHORITY HAVING JUSISDICTION (AHJ).

2. ALL ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE UL LISTED AND LABEL OR LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL).

3. ARRANGE, COORDINATE, SCHEDULE AND PAY FOR THE SERVICES OF GULF POWER COMPANY TO PROVIDE A 120/240V SINGLE-PHASE, 60A ELECTRICAL SERVICE TO SUPPORT THE THE IRRIGATION PUMP STATION CONTROL PANEL. PROVIDE ELECTRICAL SERVICE IN ACCORDANCE WITH GULF POWER COMPANY REQUIREMENTS FOR ELECTRICAL SERVICE INSTALLATION.

4. BE RESPONSIBLE FOR ALL GULF POWER COMPANY ELECTRICAL SERVICE CHARGES AND ALL MONTHLY ELECTRICAL USAGE FEES DURING CONSTRUCTION AND TWO YEAR CONTRACT ESTABLISHMENT PERIOD. ELECTRICAL SERVICE CHARGES WILL BE TURNED OVER TO THE CITY OF DESTIN AT THE CONCLUSION OF THE ESTABLISHED PERIOD.

5. BE RESPONSIBLE FOR OBTAINING ALL REQUIRED ELECTRICAL PERMITS.

IRRIGATION LEGEND:

RAIN BIRD RD1800 SERIES SPRINKLERS AT 6" & 12" HEIGHT WITH MPR SPRAY NOZZLES

	15-Q	15' RADIUS 90° ARC
	15-T	15' RADIUS 120° ARC
	15-H	15' RADIUS 180° ARC
	15-F	15' RADIUS FULL CIRCLE
	12-Q	12' RADIUS 90° ARC
	12-T	12' RADIUS 120° ARC
	12-H	12' RADIUS 180° ARC
	12-F	12' RADIUS FULL CIRCLE
	10-Q	10' RADIUS 90° ARC
	10-T	10' RADIUS 120° ARC
	10-H	10' RADIUS 180° ARC
	10-F	10' RADIUS FULL CIRCLE
	8-Q	8' RADIUS 90° ARC
	8-T	8' RADIUS 120° ARC
	8-H	8' RADIUS 180° ARC
	8-F	8' RADIUS FULL CIRCLE
	EST	4' X 15' END STRIP
	SST	4' X 15' SIDE STRIP
	CST	4' X 15' CENTER STRIP
		RAIN BIRD PRESSURE COMPENSATING FLOOD BUBBLER, 0.25 GPM (2 PER TREE WHERE SHOWN ON PLANS)
W		5" WELL WITH 7.5 VFD SUBMERSIBLE PUMP STATION PACKAGE
D1		HUNTER ICD-100 SINGLE ADDRESS DECODER
D2		HUNTER ICD-200 DOUBLE ADDRESS DECODER
G		GROUND ROD FROM DECODER
		HUNTER ICV IRRIGATION CONTROL VALVE WITH 24V SOLENDOID
		CLASS 200 PVC PANTONE PURPLE MAINLINE, SOLVENT WELD
		CLASS 200 PVC PANTONE PURPLE LATERAL LINE, SOLVENT WELD
		HDPE DR11 DIRECTIONAL BORE SLEEVE, SIZE AS NOTED ON PLANS.
		SCHEDULE 40 PVC SLEEVE, SIZE AS NOTED ON PLANS.

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Eugene W. Colborn, Jr., RLA
LA# 1484
Colborn Design Group, Inc
11628 Somerset Avenue
Princess Anne, MD 21853

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

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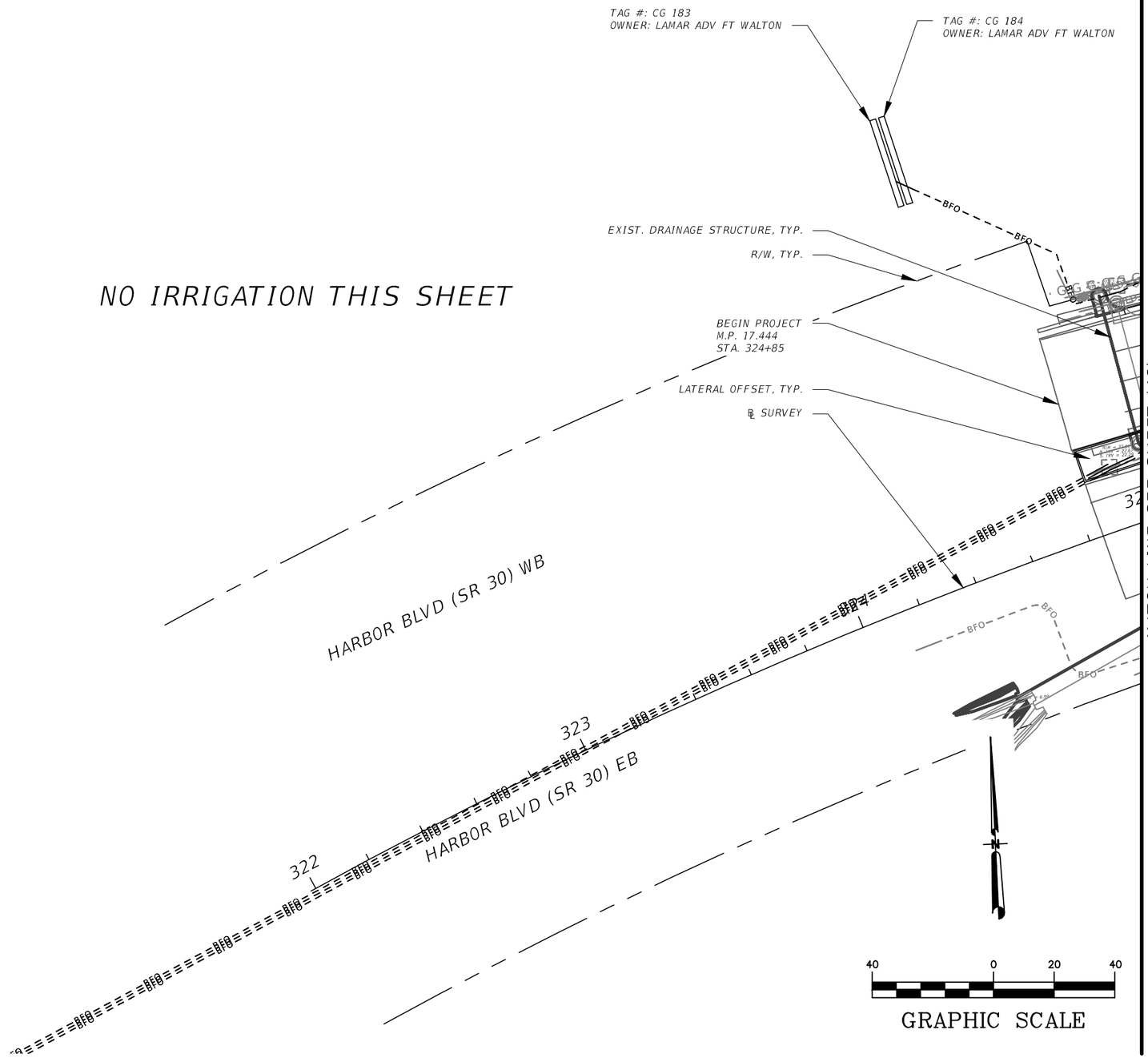
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION NOTES & LEGEND

SHEET NO. 44

NO IRRIGATION THIS SHEET



MATCH LINE SEE SHEET (46)

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SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO.
45

MATCH LINE SEE SHEET (45)

MATCH LINE SEE SHEET (47)

HARBOR BLVD (SR 30) WB

HARBOR BLVD (SR 30) EB

CALHOUN AVE.

LOCATION OF EXISTING IRRIGATION #1 WELL AND PUMP. WELL TO BE ABANDONED PER NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT STANDARDS. GULF POWER COMPANY ELECTRICAL SERVICE TO REMAIN FOR CITY OF DESTIN USE.

LOCATION OF EXISTING GULF POWER COMPANY POWER SUPPLY POLE WITH ELECTRICAL SERVICE FOR #1 WELL AND PUMP. GULF POWER COMPANY ELECTRICAL SERVICE, METER AND DISCONNECT PANEL TO REMAIN.

R/W, TYP.

6" HDPE DIRECTIONAL BORE FOR MAINLINE AND 3/4" WIRE CONDUIT

2" HDPE DIRECTIONAL BORE LATERAL LINE

EXIST. DRAINAGE STRUCTURE

BURIED WATER MAIN, TYP.

BEGINNING OF IRRIGATION SYSTEM "A"

3" MAINLINE

℄ SURVEY

BURIED GAS MAIN, TYP.

BURIED FIBER OPTIC CABLE, TYP.

EMERALD GRANDE AT HARBORWALK VILLAGE

IRRIGATION SYSTEM "A"

40 20 20 40

GRAPHIC SCALE

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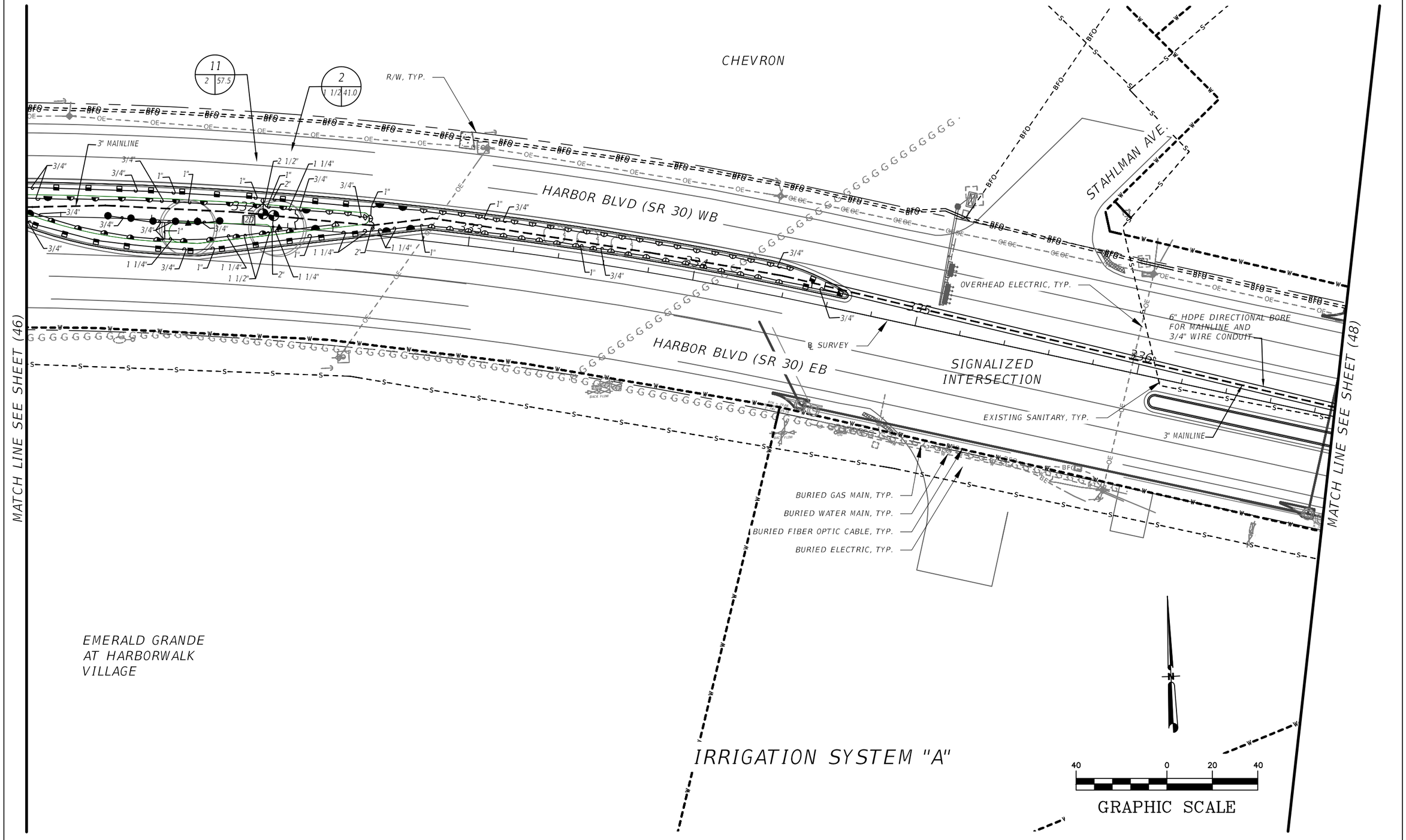
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO. 46



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IRRIGATION PLAN

SHEET NO. 47

Monday, September 21, 2020 9:32am S:\Projects_LANDUSE\Projects\FDOT D3 OKALOOSA SR30 (US98)_CA574_TWO 5\900-CAD_GIS\910-CAD_BIM\44590715201\landscp\IRRGLD01_SR30-Harbor

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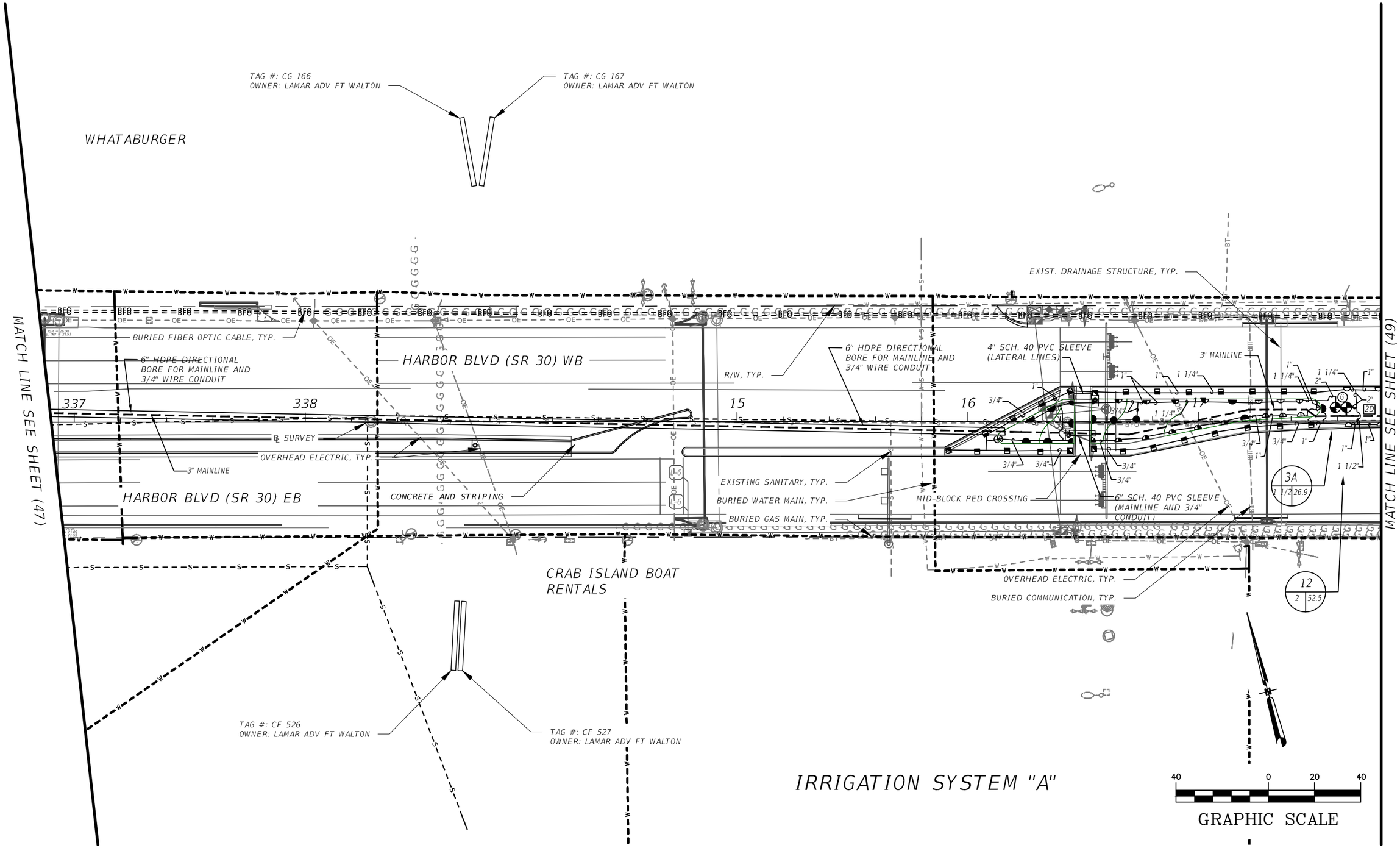

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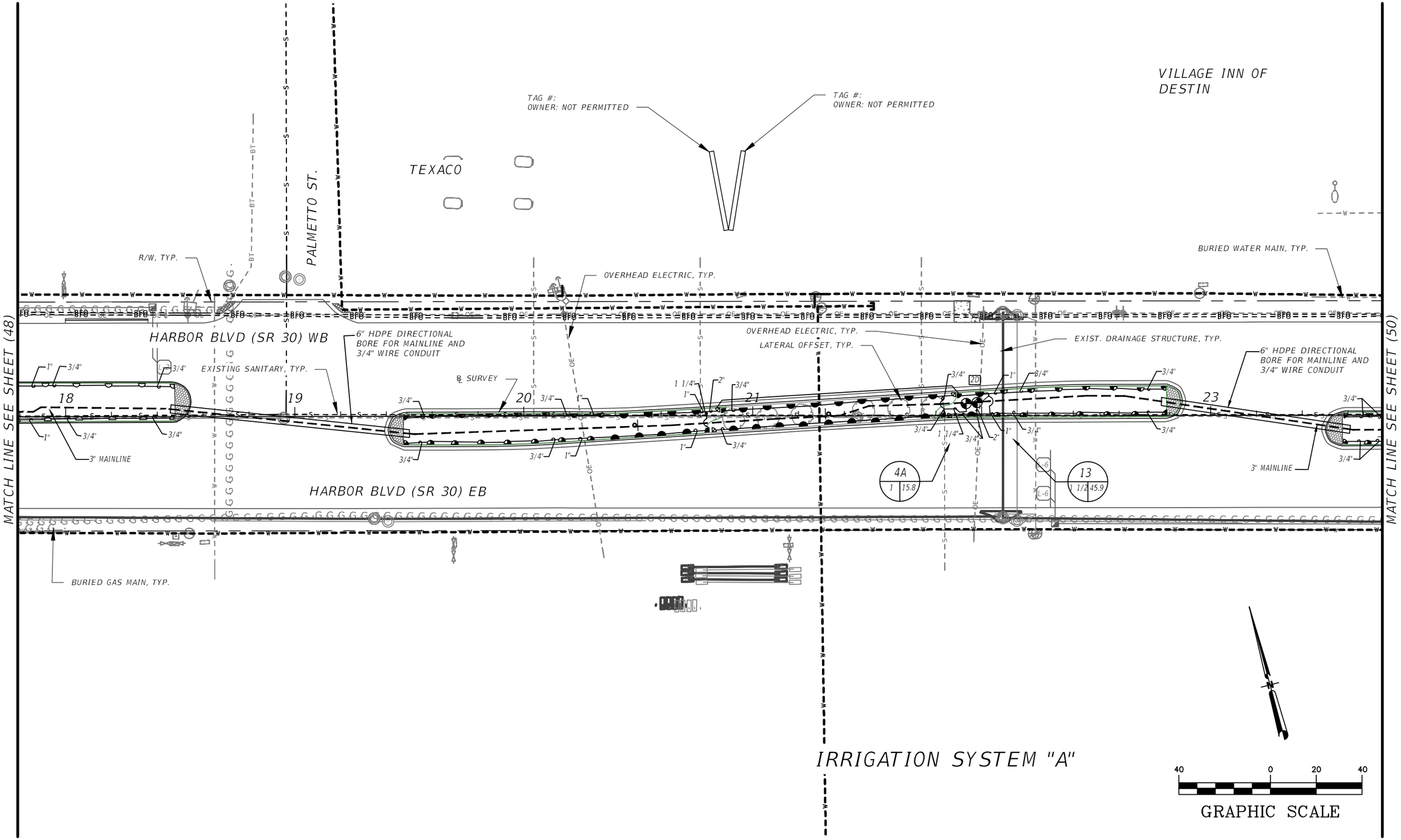
IRRIGATION PLAN

SHEET NO. 48



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IRRIGATION PLAN

SHEET NO. 49

MATCH LINE SEE SHEET (49)

MATCH LINE SEE SHEET (51)

MARLER ST.

HARBOR BLVD (SR 30) WB

HARBOR BLVD (SR 30) EB

R/W, TYP.

OVERHEAD ELECTRIC, TYP.

BURIED FIBER OPTIC CABLE, TYP.

BURIED WATER MAIN, TYP.

MID-BLOCK PED CROSSING

4" SCH. 40 PVC SLEEVE (LATERAL LINE)

EXISTING SANITARY, TYP.

6" HDPE DIRECTIONAL BORE FOR MAINLINE AND 3/4" WIRE CONDUIT

℄ SURVEY

CONCRETE MEDIAN

LATERAL OFFSET, TYP.

3" MAINLINE

BURIED NPW, TYP.

6" SCH. 40 PVC SLEEVE (MAINLINE AND 3/4" CONDUIT)

LOCATION OF EXISTING IRRIGATION #2 WELL AND PUMP WELL TO BE ABANDONED PER NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT STANDARDS. GULF POWER COMPANY ELECTRICAL SERVICE TO REMAIN FOR CITY OF DESTIN USE.

DIPPIN DOTS ICE CREAM

LANDSHARKS PIZZA COMPANY

LOCATION OF EXISTING GULF POWER COMPANY POWER SUPPLY POLE WITH ELECTRICAL SERVICE FOR #2 WELL AND PUMP. GULF POWER COMPANY ELECTRICAL SERVICE METER AND DISCONNECT PANEL TO REMAIN.

BURIED ELECTRIC, TYP.

BURIED COMMUNICATION, TYP.

24 25 26 27 28 29

5A — 1 1/2 | 37.6

14A — 1 | 18.1

IRRIGATION SYSTEM "A"

40 0 20 40

GRAPHIC SCALE

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SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO. 50

Monday, September 21, 2020 9:33am S:\Projects_LANDUSE\Projects\FDOT D3 OKALOOSA SR30 (US98)_CA574_TWO 5\900-CAD_GIS\910-CAD_BIM\44590715201\landscp\IRRGLD01_SR30-Harbor

ST ANDREWS
EPISCOPAL CHURCH

PATIOS PLUS

R/W, TYP.

HARBOR BLVD (SR 30) WB

HARBOR BLVD (SR 30) EB

6" HDPE DIRECTIONAL BORE FOR MAINLINE AND 3/4" WIRE CONDUIT

CONCRETE MEDIAN

℄ SURVEY

3" MAINLINE

OVERHEAD ELECTRIC, TYP.

LATERAL OFFSET, TYP.

6" HDPE DIRECTIONAL BORE FOR MAINLINE AND 3/4" WIRE CONDUIT

EXIST. DRAINAGE STRUCTURE, TYP.

EXISTING WATER MAIN, TYP.

30 31 32 33 34 35

15
1 1/2 34.4

6A
1 7.8

2D

MATCH LINE SEE SHEET (50)

MATCH LINE SEE SHEET (52)

IRRIGATION SYSTEM "A"

40 0 20 40

GRAPHIC SCALE

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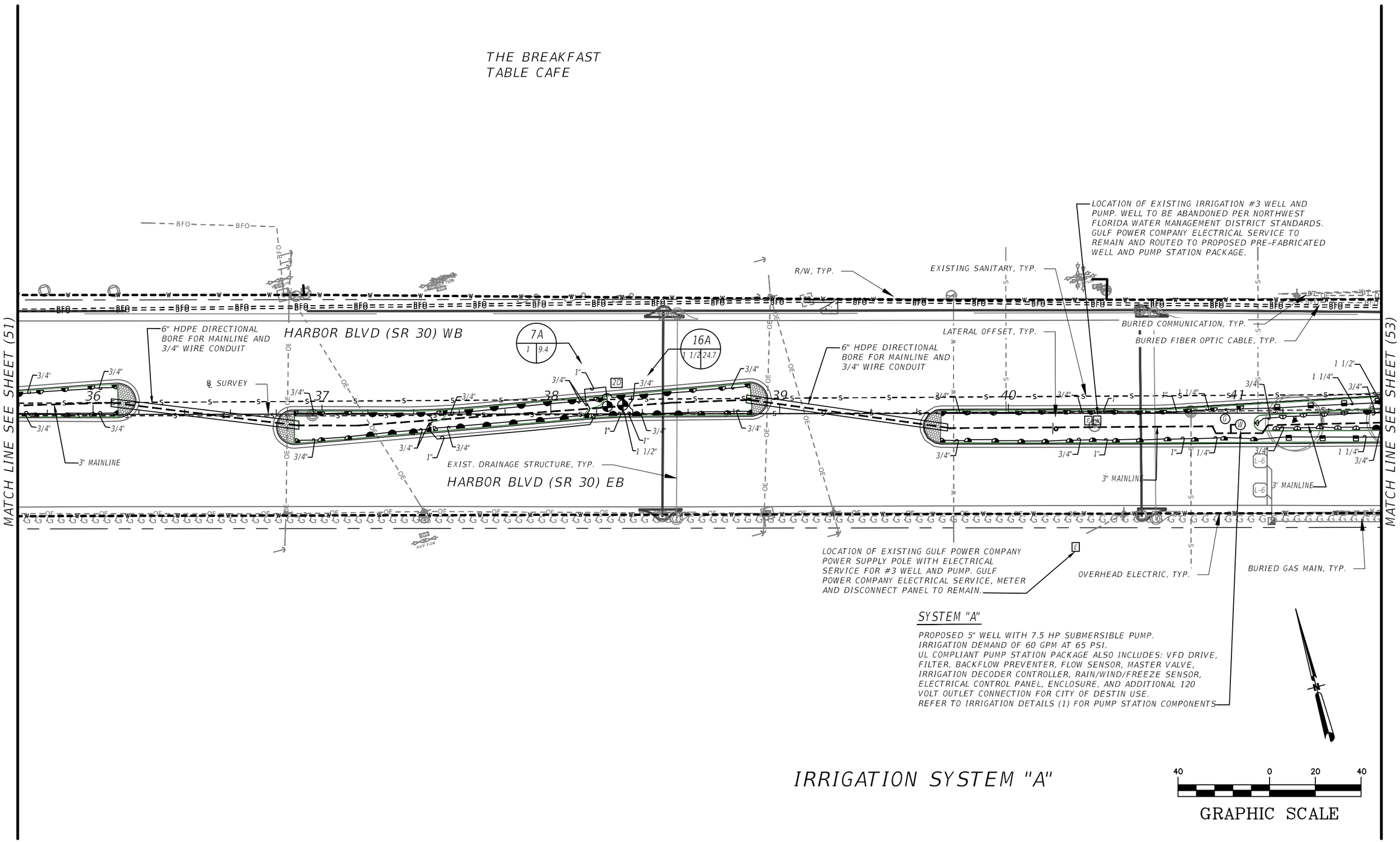
IRRIGATION PLAN

SHEET NO. 51

Monday, September 21, 2020 9:33am S:\Projects_LANDUSE\Projects\FDOT D3 OKALOOSA SR30 (US98)_CA574_TWO 5\900-CAD_GIS\910-CAD_BIM\44590715201\landscp\IRRGLD01_SR30-Harbor



SYSTEM "A"

PROPOSED 5" WELL WITH 7.5 HP SUBMERSIBLE PUMP.
IRRIGATION DEMAND OF 60 GPM AT 65 PSI.
UL COMPLIANT PUMP STATION PACKAGE ALSO INCLUDES: VFD DRIVE, FILTER, BACKFLOW PREVENTER, FLOW SENSOR, MASTER VALVE, IRRIGATION DECODER CONTROLLER, RAIN/WIND/FREEZE SENSOR, ELECTRICAL CONTROL PANEL, ENCLOSURE, AND ADDITIONAL 120 VOLT OUTLET CONNECTION FOR CITY OF DESTIN USE.
REFER TO IRRIGATION DETAILS (1) FOR PUMP STATION COMPONENTS

IRRIGATION SYSTEM "A"

40 0 20 40
GRAPHIC SCALE

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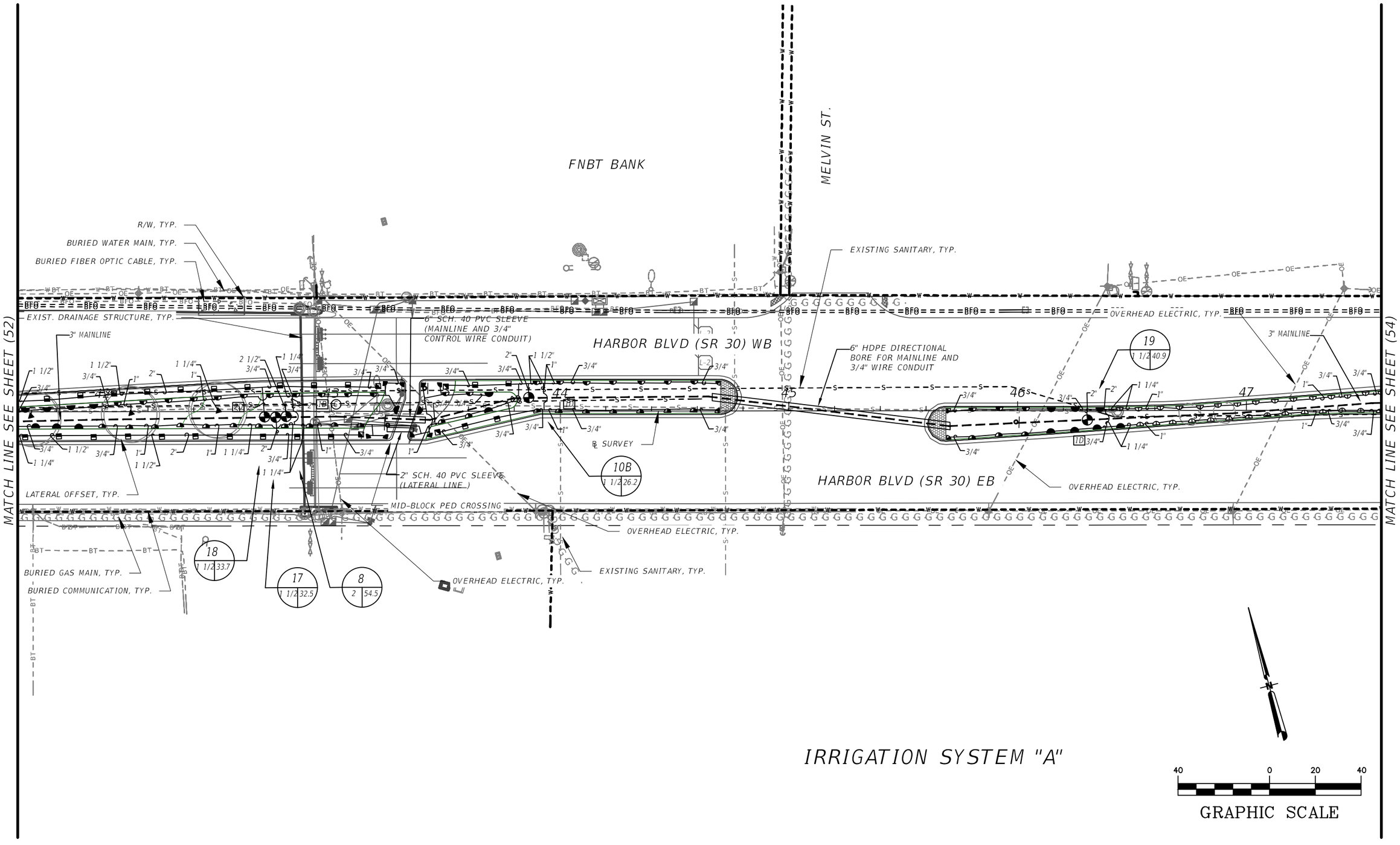
IRRIGATION PLAN

SHEET NO. 52



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IRRIGATION PLAN

SHEET NO. 53

TACO BELL

TAG #: CG 187
OWNER: LAMAR ADV FT WALTON

TAG #: CG 188
OWNER: LAMAR ADV FT WALTON

MAMA SHERRY'S PIZZA

LOCATION OF EXISTING GULF POWER COMPANY POWER SUPPLY POLE WITH ELECTRICAL SERVICE FOR #4 WELL AND PUMP. GULF POWER COMPANY ELECTRICAL SERVICE, METER AND DISCONNECT PANEL TO REMAIN.

R/W, TYP.

MATCH LINE SEE SHEET (53)

MATCH LINE SEE SHEET (55)

HARBOR BLVD (SR 30) WB

HARBOR BLVD (SR 30) EB

LATERAL OFFSET, TYP.

3" MAINLINE

6" HDPE DIRECTIONAL BORE FOR MAINLINE AND 3/4" WIRE CONDUIT

EXISTING SANITARY, TYP.

9A
1 1/2 34.5

7B
1 1/2 40.8

℄ SURVEY

OVERHEAD ELECTRIC, TYP.

EXIST. DRAINAGE STRUCTURE, TYP.

LOCATION OF EXISTING IRRIGATION #4 WELL AND PUMP. WELL TO BE ABANDONED PER NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT STANDARDS. GULF POWER COMPANY ELECTRICAL SERVICE TO REMAIN FOR CITY OF DESTIN USE.

HARBOR DOCKS

IRRIGATION SYSTEM "A"

40 0 20 40

GRAPHIC SCALE

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Eugene W. Colborn, Jr., RLA
LA# 1484
Colborn Design Group, Inc
11628 Somerset Avenue
Princess Anne, MD 21853

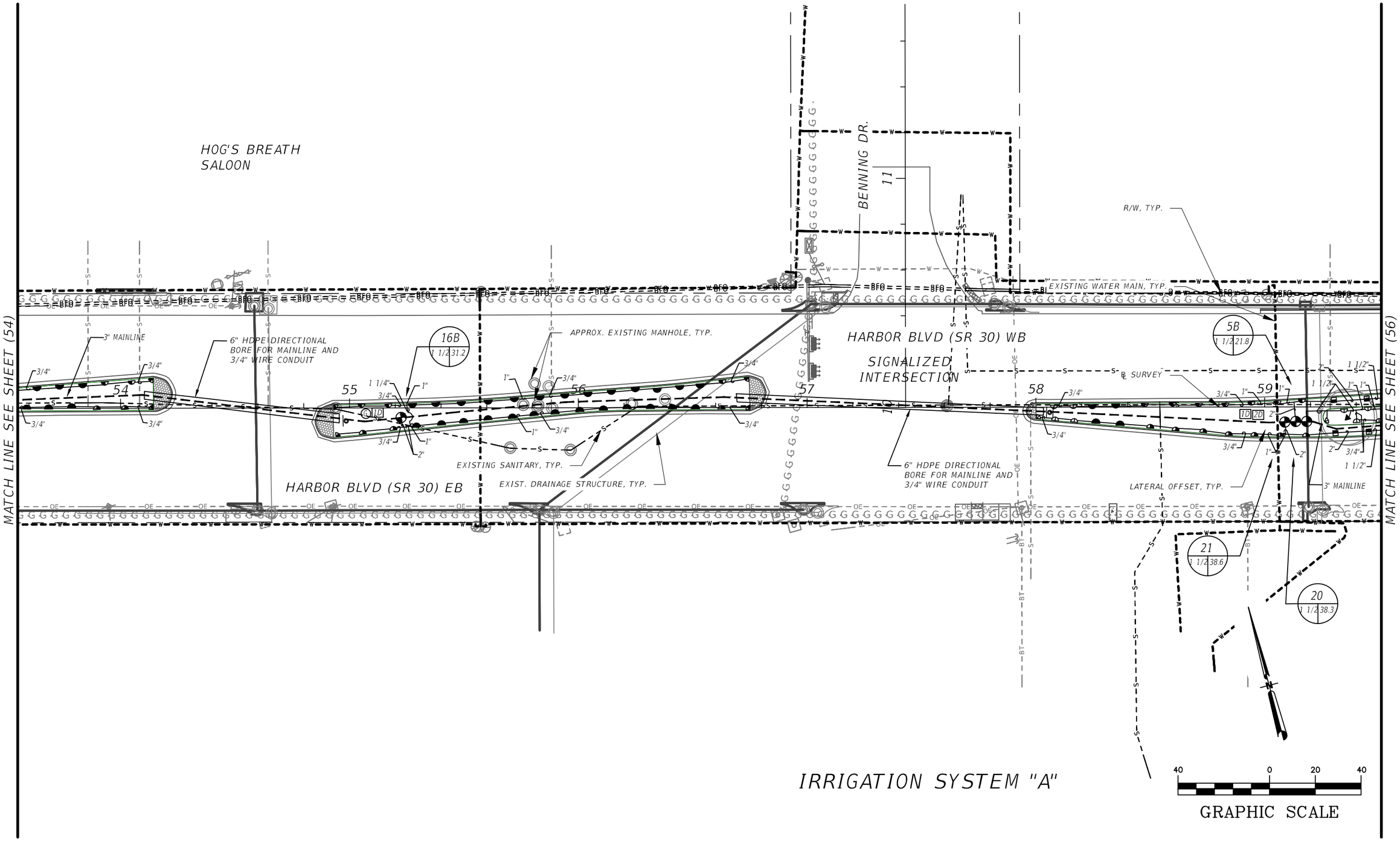
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO. 54

Monday, September 21, 2020 9:34am S:\Projects_LANDUSE\Projects\FDOT D3 OKALOOSA SR30 (US98)_CA574_TWO 5\900-CAD_GIS\910-CAD_BIM\44590715201\landscp\IRRGLD01_SR30-Harbor



THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Eugene W. Colborn, Jr., RLA
LA# 1484
Colborn Design Group, Inc
11628 Somerset Avenue
Princess Anne, MD 21853

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO. 55

GREGG ORR
PRE-OWNED DESTIN

R/W, TYP.

EXISTING SANITARY, TYP.

HARBOR BLVD (SR 30) WB

HARBOR BLVD (SR 30) EB

℄ SURVEY

LATERAL OFFSET, TYP.

3" MAINLINE

6" HDPE DIRECTIONAL BORE FOR MAINLINE AND 3/4" WIRE CONDUIT

APPROX. EXISTING MANHOLE

LOCATION OF EXISTING IRRIGATION #5 WELL AND PUMP. WELL TO BE ABANDONED PER NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT STANDARDS. GULF POWER COMPANY ELECTRICAL SERVICE TO REMAIN FOR CITY OF DESTIN USE.

EXIST. DRAINAGE STRUCTURE, TYP.

LOCATION OF EXISTING GULF POWER COMPANY POWER SUPPLY POLE WITH ELECTRICAL SERVICE FOR #5 WELL AND PUMP. GULF POWER COMPANY ELECTRICAL SERVICE, METER AND DISCONNECT PANEL TO REMAIN.

CHRISTIAN CONDOS

MATCH LINE SEE SHEET (55)

MATCH LINE SEE SHEET (57)

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40 0 20 40

GRAPHIC SCALE

IRRIGATION SYSTEM "A"

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Eugene W. Colborn, Jr., RLA
LA# 1484
Colborn Design Group, Inc
11628 Somerset Avenue
Princess Anne, MD 21853

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO. 56

DONUT HOLE
BAKERY CAFE

R/W, TYP.

6" HDPE DIRECTIONAL
BORE FOR MAINLINE AND
3/4" WIRE CONDUIT

EXISTING SANITARY, TYP.

HARBOR BLVD (SR 30) WB

6" HDPE DIRECTIONAL
BORE FOR MAINLINE AND
3/4" WIRE CONDUIT

EXISTING WATER MAIN, TYP.

℄ SURVEY

3" MAINLINE

EXISTING SANITARY, TYP.

4B
1 1/2 38.5

HARBOR BLVD (SR 30) EB

3" MAINLINE

MATCH LINE SEE SHEET (56)

MATCH LINE SEE SHEET (58)

THE SHIPS
CHANDLER

IRRIGATION SYSTEM "A"

40 0 20 40
GRAPHIC SCALE

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Eugene W. Colborn, Jr., RLA
LA# 1484
Colborn Design Group, Inc
11628 Somerset Avenue
Princess Anne, MD 21853

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO. 57

Monday, September 21, 2020 9:35am S:\Projects_LANDUSE\Projects\FDOT D3 OKALOOSA SR30 (US98)_CA574_TWO 5\900-CAD_GIS\910-CAD_BIM\44590715201\landscp\IRRGLD01_SR30-Harbor

TAG #: AV417
OWNER: BILL SALTER ADVERTISING

SUNOCO GAS STATION

LOCATION OF EXISTING IRRIGATION #6 WELL AND PUMP. WELL TO BE ABANDONED PER NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT STANDARDS. GULF POWER COMPANY ELECTRICAL SERVICE TO REMAIN FOR CITY OF DESTIN USE.

R/W, TYP.

BEACH DR.

HARBOR BLVD (SR 30) WB

HARBOR BLVD (SR 30) EB

SIGNALIZED INTERSECTION

6" HDPE DIRECTIONAL BORE FOR MAINLINE AND 3/4" WIRE CONDUIT

℄ SURVEY

3" MAINLINE

LATERAL OFFSET, TYP.

EXISTING SANITARY, TYP.

EXIST. DRAINAGE STRUCTURE, TYP.

LOCATION OF EXISTING GULF POWER COMPANY POWER SUPPLY POLE WITH ELECTRICAL SERVICE FOR #6 WELL AND PUMP. GULF POWER COMPANY ELECTRICAL SERVICE, METER AND DISCONNECT PANEL TO REMAIN.

1B — 1 1/2 | 30.4

14B — 1 1/2 | 33.6

25 — 2 | 55.1

24 — 2 | 54.0

6B — 1 1/2 | 47.5

MATCH LINE SEE SHEET (57)

MATCH LINE SEE SHEET (59)

GRAND HARBOR DESTIN

IRRIGATION SYSTEM "A"

40 0 20 40

GRAPHIC SCALE

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Eugene W. Colborn, Jr., RLA
LA# 1484
Colborn Design Group, Inc
11628 Somerset Avenue
Princess Anne, MD 21853

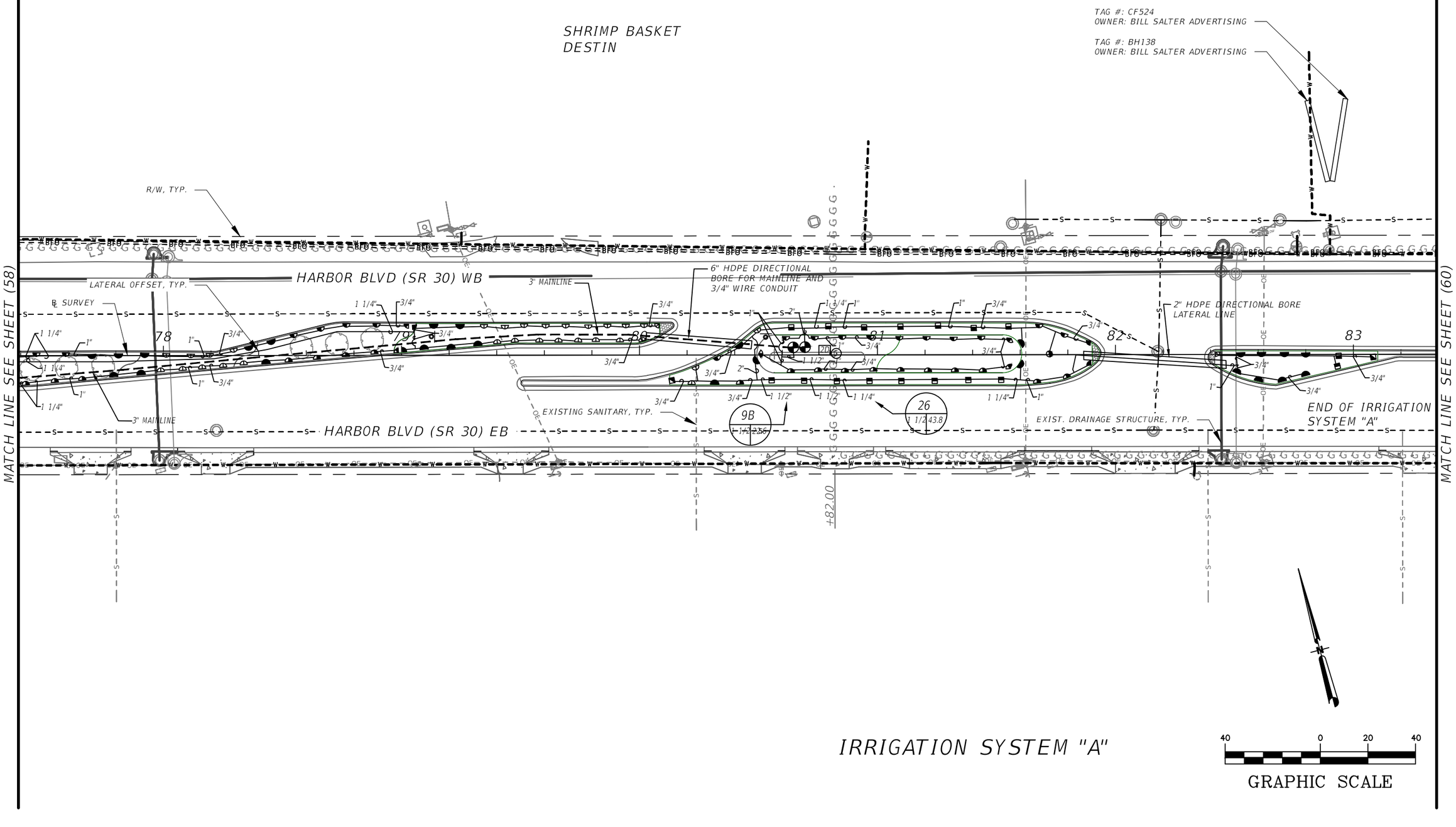
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO. 58

Monday, September 21, 2020 9:35am S:\Projects_LANDUSE\Projects\FDOT D3 OKALOOSA SR30 (US98)_CA574_TWO 5\900-CAD_GIS\910-CAD_BIM\44590715201\landscp\IRRGLD01_SR30-Harbor



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Eugene W. Colborn, Jr., RLA
LA# 1484
Colborn Design Group, Inc
11628 Somerset Avenue
Princess Anne, MD 21853

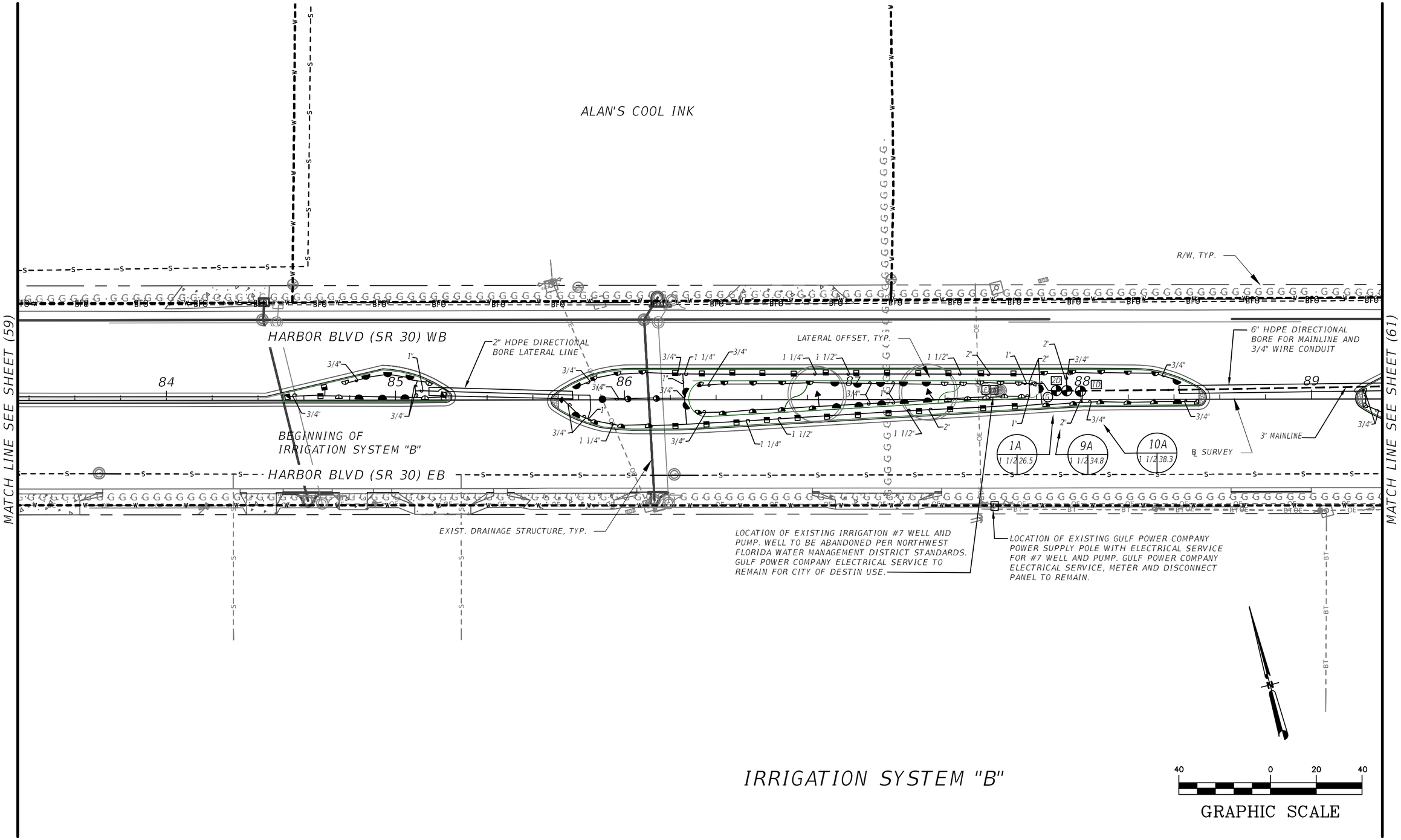
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO. 59

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.



IRRIGATION SYSTEM "B"

40 0 20 40

GRAPHIC SCALE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Eugene W. Colborn, Jr., RLA
LA# 1484
Colborn Design Group, Inc
11628 Somerset Avenue
Princess Anne, MD 21853

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO. 60

Monday, September 21, 2020 9:36am S:\Projects_LANDUSE\Projects\FDOT D3 OKALOOSA SR30 (US98)_CA574_TWO 5\900-CAD_GIS\910-CAD_BIM\44590715201\landscp\IRRGLD01_SR30-Harbor

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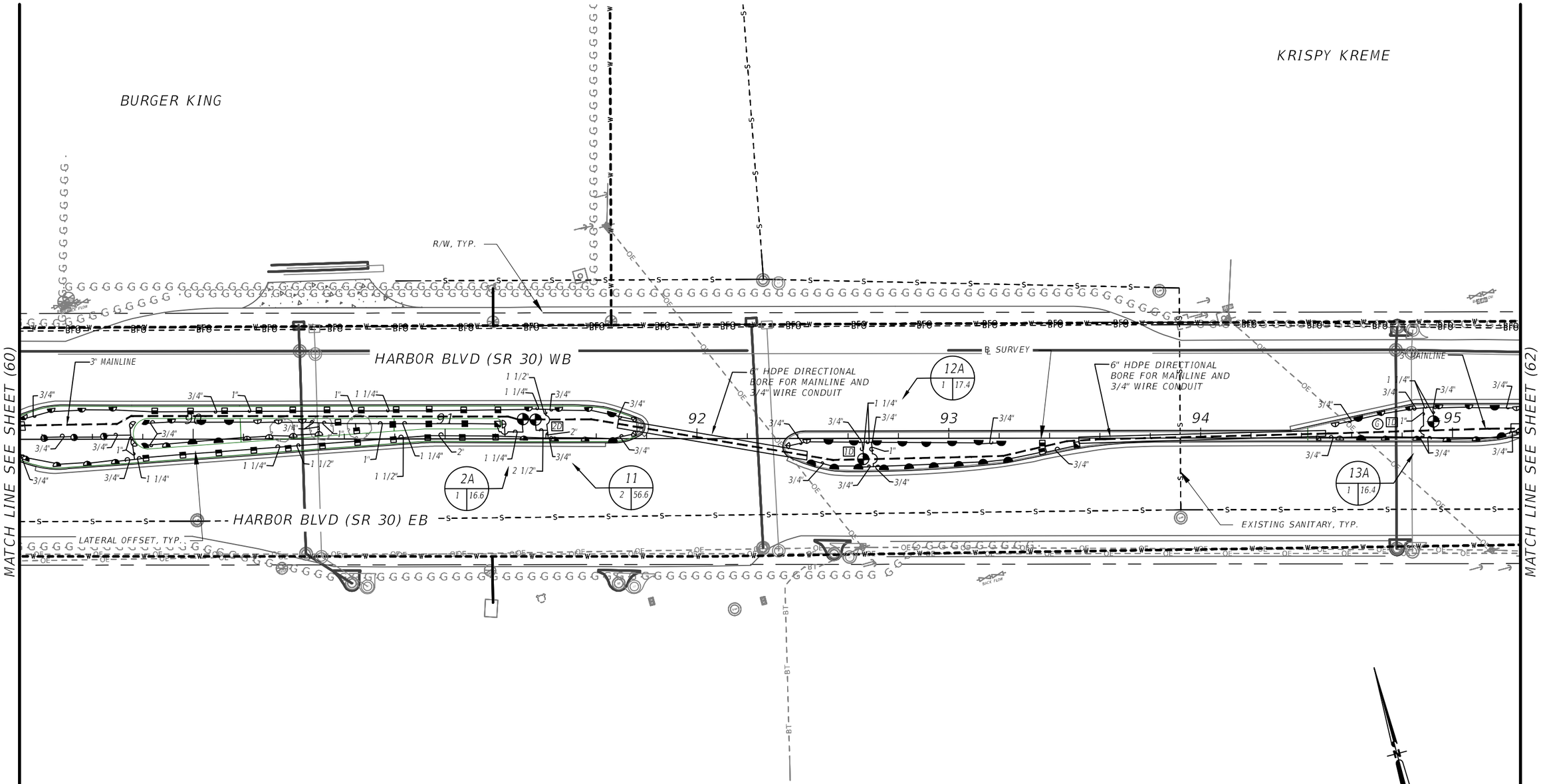


REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Eugene W. Colborn, Jr., RLA
LA# 1484
Colborn Design Group, Inc
11628 Somerset Avenue
Princess Anne, MD 21853

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO. 61

Monday, September 21, 2020 9:36am S:\Projects_LANDUSE\Projects\FDOT D3 OKALOOSA SR30 (US98)_CA574_TWO 5\900-CAD_GIS\910-CAD_BIM\44590715201\landscp\IRRGLD01_SR30-Harbor

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

CVS

REGIONS BANK

MAIN ST.

HARBOR BLVD (SR 30) WB

HARBOR BLVD (SR 30) EB

SIGNALIZED INTERSECTION

LOCATION OF EXISTING IRRIGATION #8 WELL AND PUMP. WELL TO BE ABANDONED PER NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT STANDARDS. GULF POWER COMPANY ELECTRICAL SERVICE TO REMAIN FOR CITY OF DESTIN USE.

6" HDPE DIRECTIONAL BORE FOR MAINLINE AND 3/4" WIRE CONDUIT

6" HDPE DIRECTIONAL BORE FOR MAINLINE AND 3/4" WIRE CONDUIT

EXISTING SANITARY, TYP.

EXIST. DRAINAGE STRUCTURE, TYP.

R/W, TYP.

LATERAL OFFSET, TYP.

℄ SURVEY

3" MAINLINE

3" MAINLINE

LOCATION OF EXISTING GULF POWER COMPANY POWER SUPPLY POLE WITH ELECTRICAL SERVICE FOR #8 WELL AND PUMP. GULF POWER COMPANY ELECTRICAL SERVICE, METER AND DISCONNECT PANEL TO REMAIN.

SANDPIPER COVE BEACH

MATCH LINE SEE SHEET (61)

MATCH LINE SEE SHEET (63)

IRRIGATION SYSTEM "B"

40 0 20 40

GRAPHIC SCALE

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

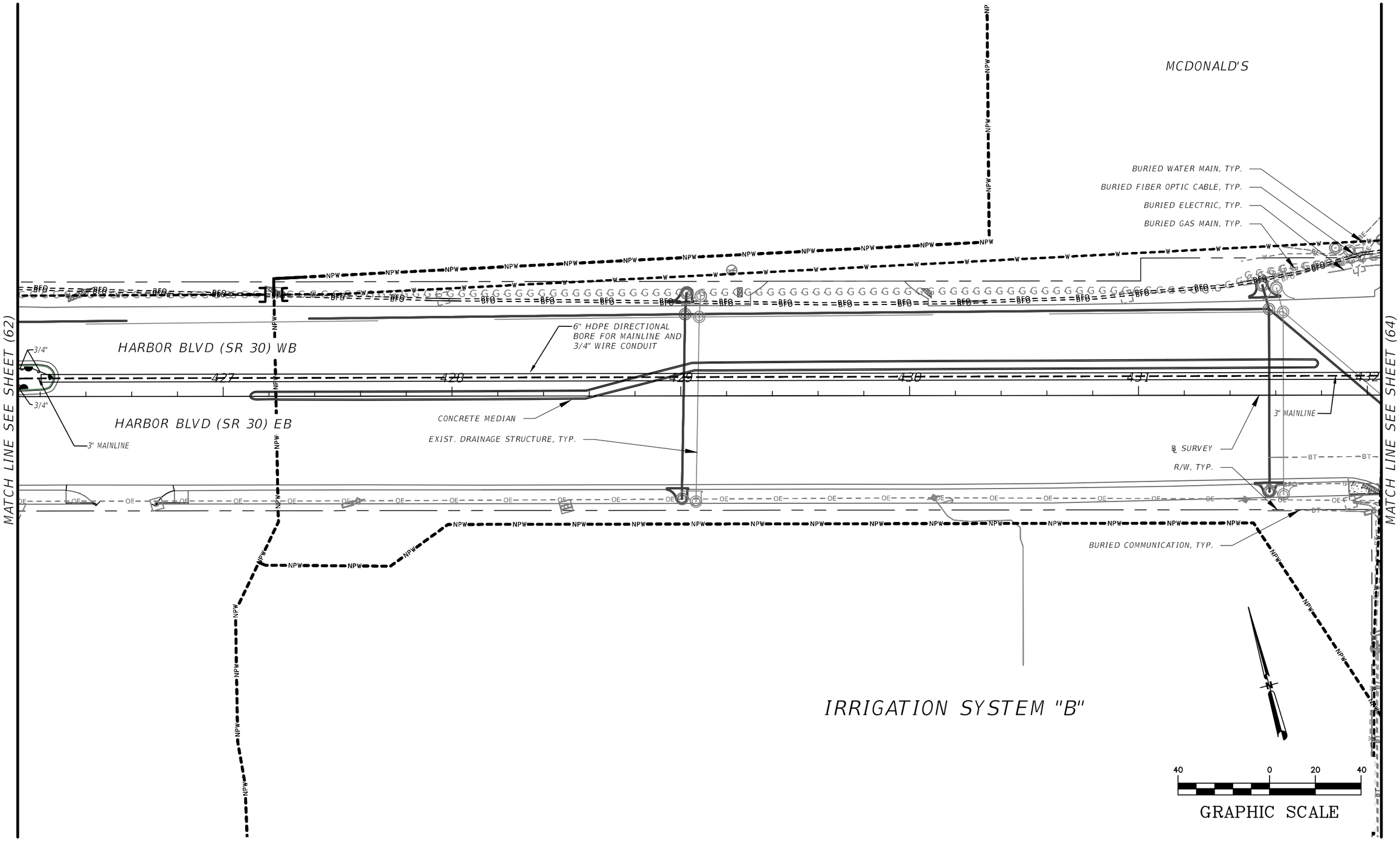
Eugene W. Colborn, Jr., RLA
LA# 1484
Colborn Design Group, Inc
11628 Somerset Avenue
Princess Anne, MD 21853

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO. 62



THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Eugene W. Colborn, Jr., RLA
LA# 1484
Colborn Design Group, Inc
11628 Somerset Avenue
Princess Anne, MD 21853

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO. 63

Monday, September 21, 2020 9:37am S:\Projects_LANDUSE\Projects\FDOT D3 OKALOOSA SR30 (US98)_CA574_TWO 5\900-CAD_GIS\910-CAD_BIM\44590715201\landscp\IRRGLD01_SR30-Harbor

MIMMO'S
RISTORANTE
ITALIANO

GULF SHORE DR.

R/W, TYP.

BURIED FIBER OPTIC CABLE, TYP.

BURIED ELECTRIC, TYP.

6" HDPE DIRECTIONAL
BORE FOR MAINLINE AND
3/4" WIRE CONDUIT

SIGNALIZED
INTERSECTION

HARBOR BLVD (SR 30) WB

16
1 1/2 32.0

6" HDPE DIRECTIONAL
BORE FOR MAINLINE AND
3/4" WIRE CONDUIT

5A
1 1/2 39.3

3" MAINLINE

EXISTING SANITARY, TYP.

BURIED GAS MAIN, TYP.

BURIED COMMUNICATION, TYP.

BURIED WATER MAIN, TYP.

℄ SURVEY

LATERAL OFFSET, TYP.

HARBOR BLVD (SR 30) EB

30

29

433

434

435

436

437

MATCH LINE SEE SHEET (63)

MATCH LINE SEE SHEET (65)

IRRIGATION SYSTEM "B"

40 0 20 40

GRAPHIC SCALE

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

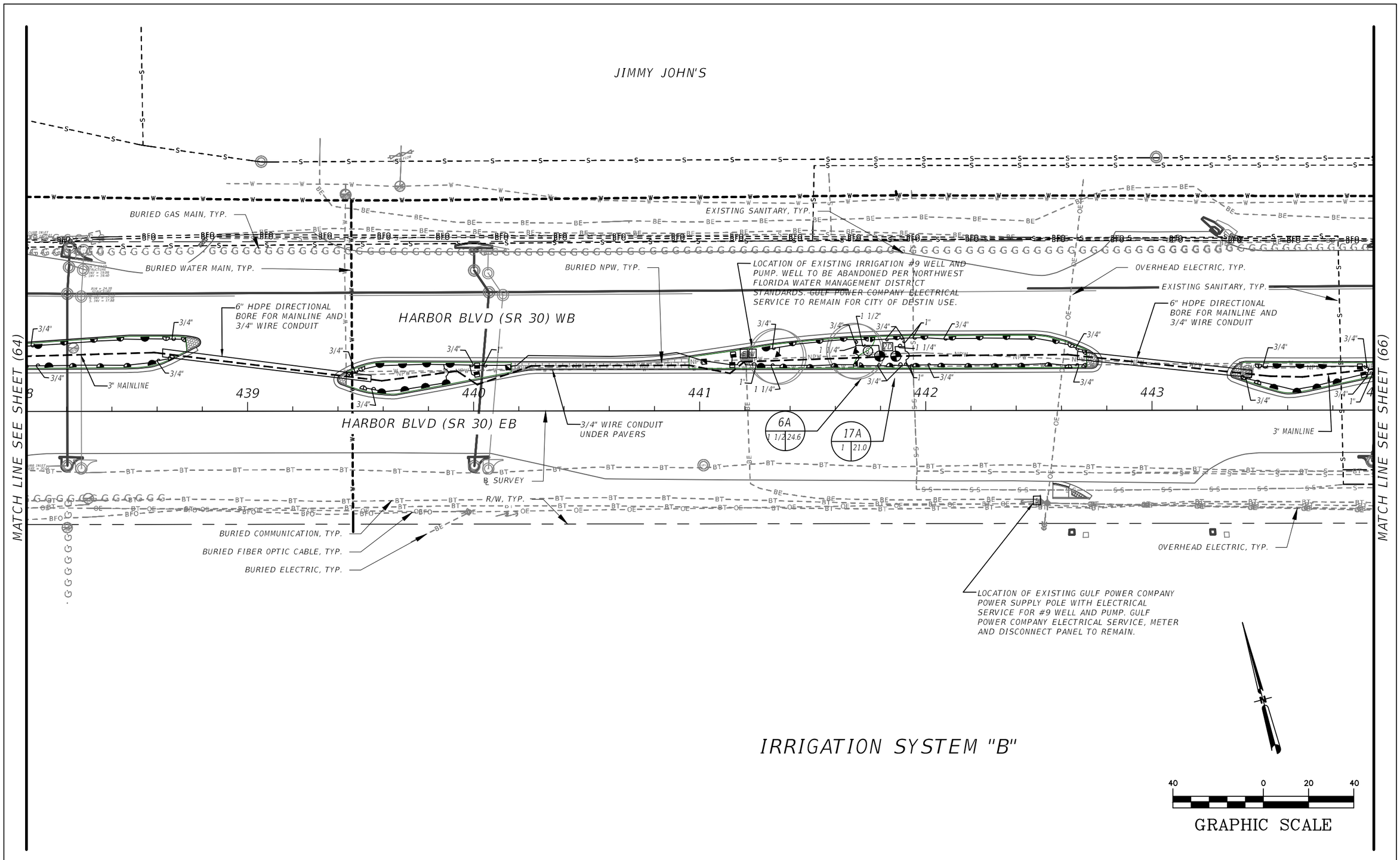
Eugene W. Colborn, Jr., RLA
LA# 1484
Colborn Design Group, Inc
11628 Somerset Avenue
Princess Anne, MD 21853

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO. 64



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REVISIONS			
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STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO. 65

RACEWAY GAS STATION

PALMS ST.

R/W, TYP.

BURIED GAS MAIN, TYP.

3/4" WIRE CONDUIT UNDER PAVERS

BURIED WATER MAIN, TYP.

HARBOR BLVD (SR 30) WB

6B
1 | 18.2

6" HDPE DIRECTIONAL BORE FOR MAINLINE AND 3/4" WIRE CONDUIT

BURIED NPW, TYP.

LATERAL OFFSET, TYP.

℄ SURVEY

444 445 446 447 448 449

3" MAINLINE

HARBOR BLVD (SR 30) EB

BURIED ELECTRIC, TYP.

EXIST. DRAINAGE STRUCTURE, TYP.

OVERHEAD ELECTRIC, TYP.

BURIED COMMUNICATION, TYP.

EXISTING SANITARY, TYP.

BURIED FIBER OPTIC CABLE, TYP.

SANDPRINT DR

IRRIGATION SYSTEM "B"

40 0 20 40

GRAPHIC SCALE

MATCH LINE SEE SHEET (65)

MATCH LINE SEE SHEET (67)

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Eugene W. Colborn, Jr., RLA
LA# 1484
Colborn Design Group, Inc
11628 Somerset Avenue
Princess Anne, MD 21853

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO. 66

BIG KAHUNA'S
WATER &
ADVENTURE PARK

SYSTEM "B"

PROPOSED 5" WELL WITH 7.5 HP SUBMERSIBLE PUMP.
IRRIGATION DEMAND OF 60 GPM AT 65 PSI.
UL COMPLIANT PUMP STATION PACKAGE ALSO INCLUDES: VFD DRIVE, FILTER, BACKFLOW PREVENTER, FLOW SENSOR, MASTER VALVE, IRRIGATION DECODER CONTROLLER, RAIN/WIND/FREEZE SENSOR, ELECTRICAL CONTROL PANEL, ENCLOSURE, AND ADDITIONAL 120 VOLT OUTLET CONNECTION FOR CITY OF DESTIN USE.
REFER TO IRRIGATION DETAILS (1) FOR PUMP STATION COMPONENTS

LOCATION OF EXISTING IRRIGATION #10 WELL AND PUMP. WELL TO BE ABANDONED PER NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT STANDARDS. GULF POWER COMPANY ELECTRICAL SERVICE TO REMAIN AND ROUTED TO PROPOSED PRE-FABRICATED WELL AND PUMP STATION PACKAGE.

MATCH LINE SEE SHEET (66)

MATCH LINE SEE SHEET (68)

R/W, TYP.

BURIED GAS MAIN, TYP.

OVERHEAD ELECTRIC, TYP.

BURIED ELECTRIC, TYP.

6" SCH. 40 PVC SLEEVE (MAINLINE AND 3/4" CONTROL WIRE CONDUIT)

BURIED WATER MAIN, TYP.

HARBOR BLVD (SR 30) WB

HARBOR BLVD (SR 30) EB

℄ SURVEY

3" MAINLINE

BURIED FIBER OPTIC CABLE, TYP.

EXISTING SANITARY, TYP.

BURIED COMMUNICATION, TYP.

4" SCH. 40 PVC SLEEVE (MAINLINE AND 3/4" CONTROL WIRE CONDUIT)

4" SCH. 40 PVC SLEEVE (LATERAL LINE)

6" HDPE DIRECTIONAL BORE FOR MAINLINE AND 3/4" WIRE CONDUIT

MID-BLOCK PED CROSSING

EXIST. DRAINAGE STRUCTURE, TYP.

LOCATION OF EXISTING IRRIGATION WELL #10 AND PUMP. WELL TO BE ABANDONED PER NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT STANDARDS. GULF POWER COMPANY ELECTRICAL SERVICE TO REMAIN.

IRRIGATION SYSTEM "B"

40 0 20 40

GRAPHIC SCALE

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

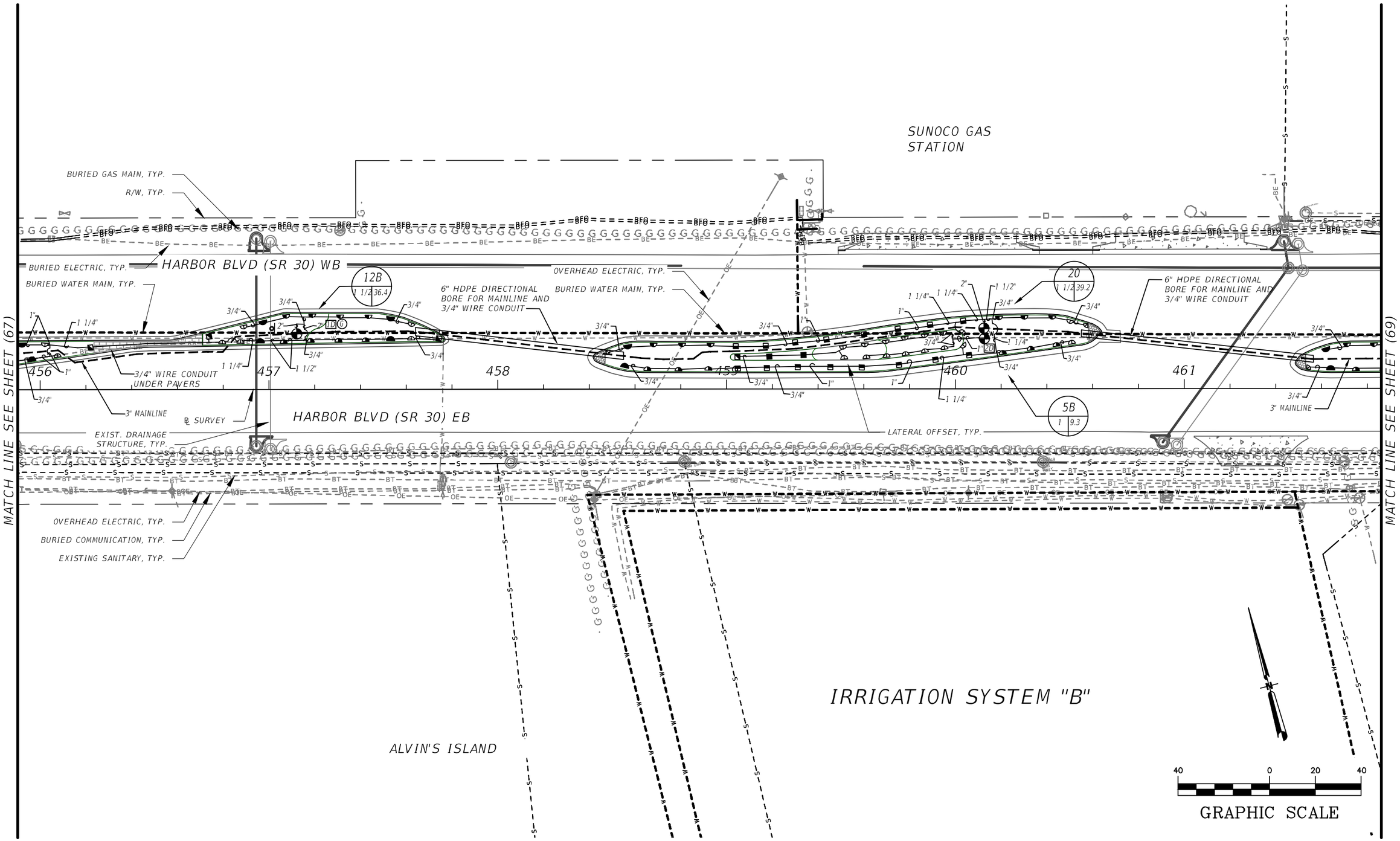
Eugene W. Colborn, Jr., RLA
LA# 1484
Colborn Design Group, Inc
11628 Somerset Avenue
Princess Anne, MD 21853

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO. 67



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Eugene W. Colborn, Jr., RLA
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Colborn Design Group, Inc
11628 Somerset Avenue
Princess Anne, MD 21853

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO. 68

MATCH LINE SEE SHEET (68)

MATCH LINE SEE SHEET (70)

DAYS INN BY WYNDHAM DESTIN

LOCATION OF EXISTING IRRIGATION WELL #11 AND PUMP. WELL TO BE ABANDONED PER NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT STANDARDS. ELECTRICAL SERVICE HAS BEEN REMOVED.

OVERHEAD ELECTRIC, TYP.

R/W, TYP.

BURIED WATER MAIN, TYP.

OVERHEAD ELECTRIC, TYP.

EXISTING SANITARY, TYP.

OVERHEAD ELECTRIC, TYP.

BURIED WATER MAIN, TYP.

6" HDPE DIRECTIONAL BORE FOR MAINLINE AND 3/4" WIRE CONDUIT

3" MAINLINE

3/4" WIRE CONDUIT UNDER PAVERS

6" HDPE DIRECTIONAL BORE FOR MAINLINE AND 3/4" WIRE CONDUIT

3" MAINLINE

2B
1 | 1/2 | 38.3

4B
1 | 16.1

HARBOR BLVD (SR 30) WB

HARBOR BLVD (SR 30) EB

462 463 464 465 466 467

℄ SURVEY

BURIED GAS MAIN, TYP.

LATERAL OFFSET, TYP.

EXIST. DRAINAGE STRUCTURE, TYP.

OVERHEAD ELECTRIC, TYP.

EXISTING SANITARY, TYP.

BURIED COMMUNICATION, TYP.

BANK OF AMERICA

IRRIGATION SYSTEM "B"

40 0 20 40

GRAPHIC SCALE

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Eugene W. Colborn, Jr., RLA
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Colborn Design Group, Inc
11628 Somerset Avenue
Princess Anne, MD 21853

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO. 69

CHICK-FIL-A

WAFFLE HOUSE

TAG #: BH463
OWNER: LAMAR ADV FT WALTON

TAG #: B0996
OWNER: LAMAR ADV FT WALTON

R/W, TYP.

21
1 | 46.8

3B
1 | 14.6

6" SCH. 40 PVC SLEEVE
(MAINLINE AND 3/4" CONTROL
WIRE CONDUIT)

BURIED WATER MAIN, TYP.

OVERHEAD ELECTRIC, TYP.

3" MAINLINE

MID-BLOCK PED CROSSING

10B
1 | 20.5

OVERHEAD ELECTRIC, TYP.

HARBOR BLVD (SR 30) WB

6" HDPE DIRECTIONAL
BORE FOR MAINLINE AND
3/4" WIRE CONDUIT

469

470

471

472

473

LATERAL OFFSET, TYP.

6" SCH. 40 PVC SLEEVE
(LATERAL LINES)

℄ SURVEY

6" HDPE DIRECTIONAL
BORE FOR MAINLINE AND
3/4" WIRE CONDUIT

HARBOR BLVD (SR 30) EB

3" MAINLINE

3/4" WIRE CONDUIT
UNDER PAVERS

EXISTING
SANITARY, TYP.

EXIST. DRAINAGE STRUCTURE, TYP.

BURIED GAS MAIN, TYP.

BURIED COMMUNICATION, TYP.

MATCH LINE SEE SHEET (69)

MATCH LINE SEE SHEET (71)

IRRIGATION SYSTEM "B"

40 0 20 40

GRAPHIC SCALE

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Eugene W. Colborn, Jr., RLA
LA# 1484
Colborn Design Group, Inc
11628 Somerset Avenue
Princess Anne, MD 21853

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

SHEET NO.
70

LOCATION OF EXISTING IRRIGATION #12 WELL AND PUMP. WELL TO BE ABANDONED PER NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT STANDARDS. GULF POWER COMPANY ELECTRICAL SERVICE TO REMAIN FOR CITY OF DESTIN USE.

OVERHEAD ELECTRIC, TYP.

EXISTING SANITARY, TYP.

BURIED WATER MAIN, TYP.

LATERAL OFFSET, TYP.

6" HDPE DIRECTIONAL BORE FOR MAINLINE AND 3/4" WIRE CONDUIT

6" HDPE DIRECTIONAL BORE FOR MAINLINE AND 3/4" WIRE CONDUIT

6" HDPE DIRECTIONAL BORE FOR MAINLINE AND 3/4" WIRE CONDUIT

3" MAINLINE

HARBOR BLVD (SR 30) WB

9B
1 | 14.3

474 475 476 477 478 479

3/4" WIRE CONDUIT UNDER PAVERS

22
1 1/2 | 48.0

8B
1 | 9.8

℄ SURVEY

3" MAINLINE

HARBOR BLVD (SR 30) EB

R/W, TYP.

LOCATION OF EXISTING GULF POWER COMPANY POWER SUPPLY POLE WITH ELECTRICAL SERVICE FOR #12 WELL AND PUMP. GULF POWER COMPANY ELECTRICAL SERVICE, METER AND DISCONNECT PANEL TO REMAIN.

MATCH LINE SEE SHEET (70)

MATCH LINE SEE SHEET (72)

IRRIGATION SYSTEM "B"

40 0 20 40

GRAPHIC SCALE

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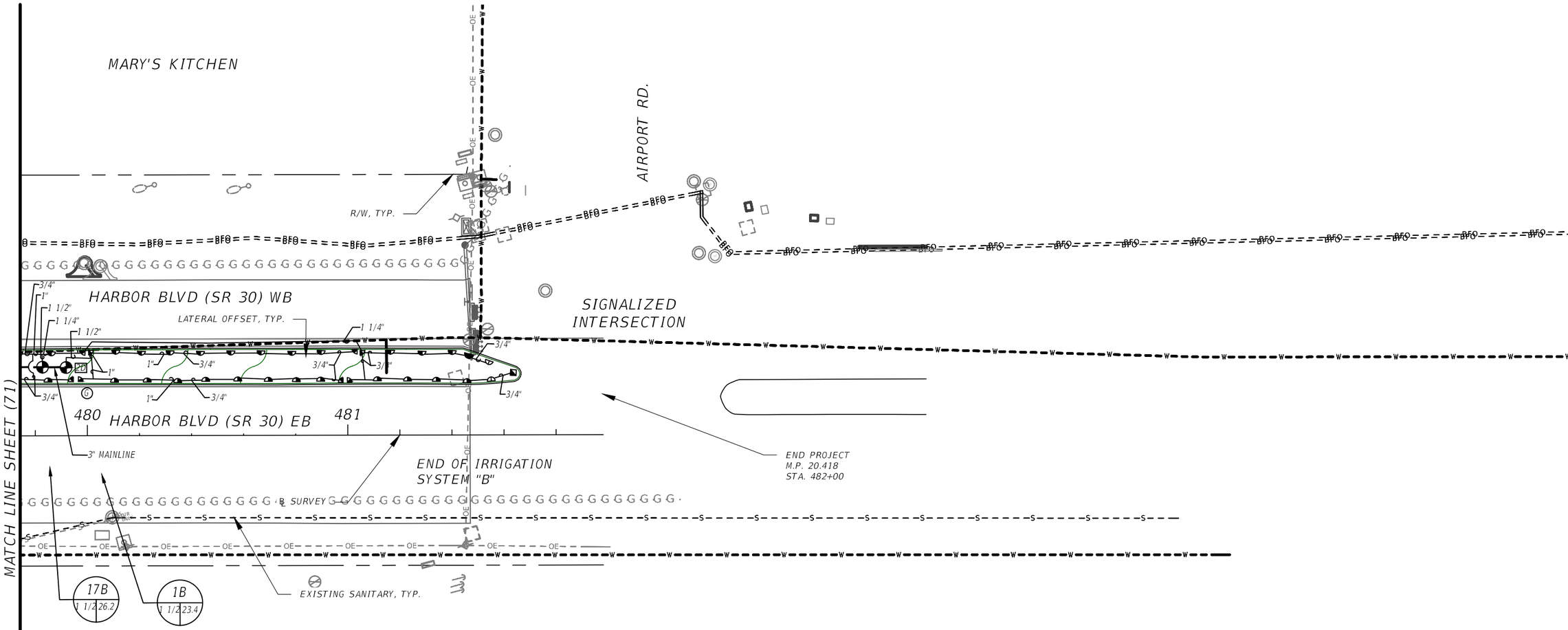
IRRIGATION PLAN

SHEET NO. 71



IRRIGATION SYSTEM "B"

COMPASS RESORTS
AT SILVER BEACH
TOWERS

40 0 20 40

GRAPHIC SCALE

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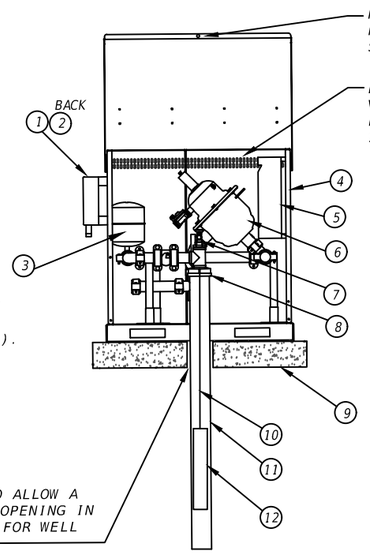
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION PLAN

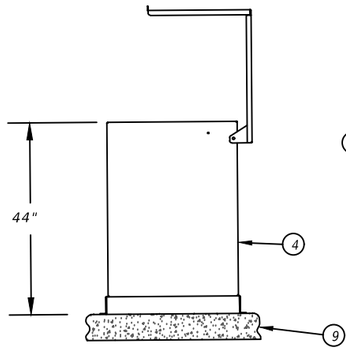
SHEET NO. 72

Monday, September 21, 2020 9:40am S:\Projects_LANDUSE\Projects\FDOT D3 OKALOOSA SR30 (US98)_CA574_TWO 5\900-CAD_GIS\910-CAD_BIM\44590715201\landscp\IRRGLD01_SR30-Harbor

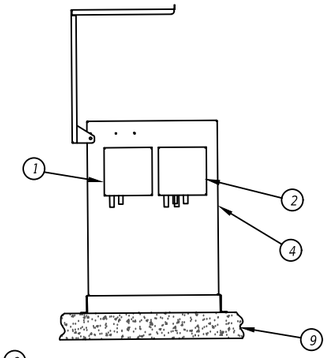
PROVIDE MINIMUM OF 4' CLEARANCE ON ALL SIDES OF PUMP ENCLOSURE



FRONT ELEVATION VIEW

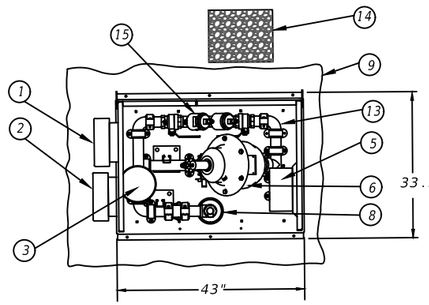


RIGHT SIDE VIEW

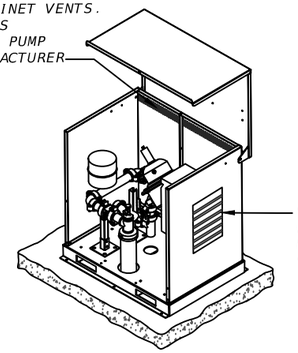


LEFT SIDE VIEW

THE PUMP STATION PACKAGE SHALL BE UL 778 COMPLIANT PACKAGE PUMP SYSTEM. THE ASSEMBLY SHALL INCLUDE THE CERTIFICATION MARK OF THE NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL).



PLAN VIEW



PROJECTED ISO VIEW

WELL NOTES:

1. ALL EXPOSED WELL EQUIPMENT TO BE PAINTED 2 COATS OF DARK GREEN FLAT EXTERIOR ENAMEL PAINT.
2. ALL MATERIAL MUST BE INSTALLED PER LOCAL CODES. CONTRACTOR WILL BE HELD RESPONSIBLE FOR CODE COMPLIANCE.
3. ELECTRICAL POWER SUPPLY TO THE PUMP CONTROL BOX AND IRRIGATION IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL ELECTRICAL WORK SHALL BE BY A QUALIFIED ELECTRICAL CONTRACTOR. REFER TO THE GENERAL ELECTRICAL NOTES ON THE NOTES AND LEGEND SHEET.
4. WELL TESTING: WELL DRILLER SHALL NOTIFY THE PUMP SYSTEM MANUFACTURER IN WRITING WITHIN 24 HOURS OF DEVELOPING THE WELL IF THE WELL PUMPING LEVEL IS GREATER THAN 25' BELOW FINISHED GRADE AFTER 8 HOURS OF CONTINUOUS PUMPING AT 125% (75 GPM) OF THE 60 GPM DESIGN FLOW.
5. PROVIDE MINIMUM OF 4' CLEARANCE ON ALL SIDES OF PUMP ENCLOSURE.
6. CONTRACTOR TO PROVIDE AN ADDITIONAL LOCK FOR PUMP ACCESS THROUGHOUT THE INSTALLATION AND ESTABLISHMENT PERIOD.

CONTRACTOR NOTES:

1. PREPARE AND SUBMIT A WELL CONSTRUCTION PERMIT FOR THE PROJECT AND PAY ALL APPLICABLE APPLICATION FEES. SUBMIT THE APPROVED WATER USE PERMIT TO THE ENGINEER AND LANDSCAPE ARCHITECT OF RECORD PRIOR TO CONSTRUCTION.
2. SUBMIT SHOP DRAWINGS OF ALL WELL AND PUMP STATION PACKAGE COMPONENTS TO ENGINEER AND LANDSCAPE ARCHITECT OF RECORD FOR REVIEW PRIOR TO CONSTRUCTION.

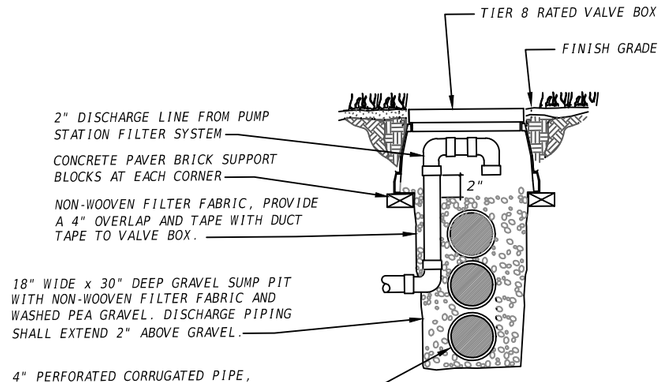
PUMP ASSEMBLY

PUMP MODEL:
SITEONE GREEN TECH
PIB-75-S-231/F6-12VC-2013-D1/CA03-HU4-75

1. 240V SINGLE PHASE LOAD CENTER
2. FUSIBLE DISCONNECT (80A)
3. BLADDER TANK
4. MARINE GRADE ALUMINUM ENCLOSURE POWDER COATED
5. 7.5 HP VFD (230V) SINGLE PHASE WITH LOAD REACTOR
6. 2" AUTOMATIC SCREEN FILTER WITH SUCTION SCANNER
7. PRESSURE RELIEF VALVE
8. WELL SEAL
9. 4' x 4' x 4" THICK WIRE MESH REINFORCED CONCRETE SLAB
10. GALVANIZED SCH. 40 DROP PIPE
11. 5" WELL CASING
12. 7.5 HP SUBMERSIBLE PUMP, DEMAND OF 60 GPM & 65 PSI DISCHARGE. ELECTRICAL REQUIREMENT OF 240 VOLT/ SINGLE PHASE
13. 2" GROOVED GALV. PIPING
14. FILTER BACKWASH SUMP, SEE SUMP DETAIL
15. 2" DOUBLE CHECK BFP DEVICE
16. HUNTER ACC2 DECODER CONTROLLER WITH STAINLESS STEEL CABINET, NOT SHOWN
17. 2" FLOW SENSOR AND MASTER VALVE SUPPLIED WITH PUMP STATION PACKAGE, NOT SHOWN

WELL PUMP STATION PACKAGE

NTS



FILTER BACKWASH SUMP

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SR 30	OKALOOSA	445907-1-52-01

IRRIGATION DETAILS

SHEET NO. 73

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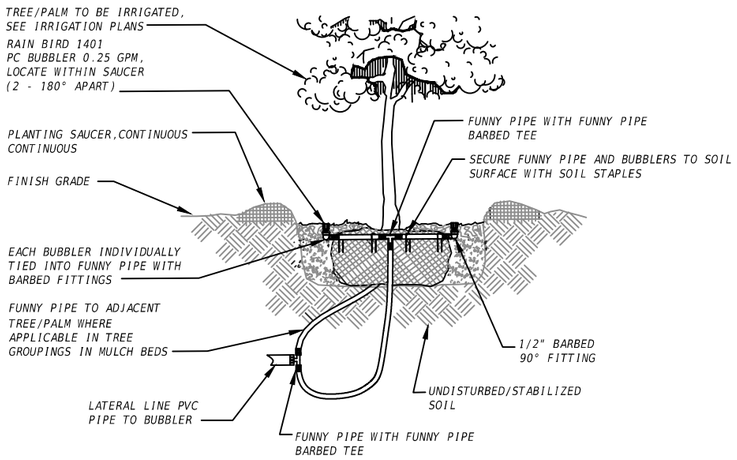
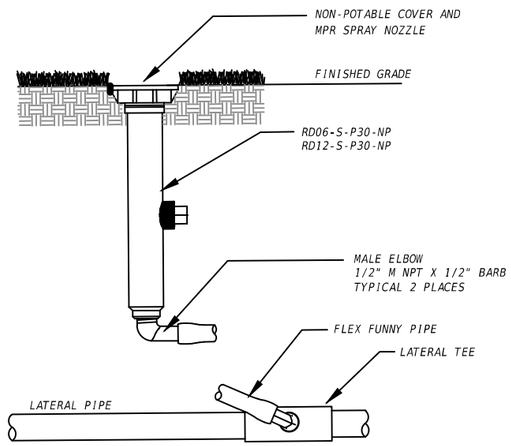


NOTES:

1. BUBBLERS SHALL BE PLACED ON THE UPHILL SIDE OF ANY SLOPES & ON THE OPPOSING SIDES OF EACH ROOTBALL WITHIN THE SAUCER.
2. BUBBLERS TO BE INSTALLED ADJACENT TO ROOTBALL PERIMETER, DO NOT INSTALL BUBBLER ON TOP OF ROOTBALL OR NEXT TO TRUNK.
3. REFER TO PLANS FOR BUBBLER FLOW VOLUME AND BUBBLER QUANTITIES PER TREE OR PALM.

RAIN BIRD 1400 SERIES FLOOD BUBBLER FOR TREES

NTS



RAIN BIRD RD1800 SERIES SPRINKLER

NTS

CONTROLLER SCHEDULE SYSTEM "A"

ZONE	GPM	VALVE SIZE	TYPE
1A	21.8	1"	PLANTS
1B	30.4	1 1/2"	PLANTS
	52.2		
2	41.0	1 1/2"	PLANTS
3A	26.9	1 1/2"	PLANTS
3B	24.4	1 1/2"	PLANTS
	51.3		
4A	15.8	1"	PLANTS
4B	38.5	1 1/2"	PLANTS
	54.3		
5A	37.6	1 1/2"	PLANTS
5B	21.8	1 1/2"	PLANTS
	59.4		
6A	7.8	1"	PLANTS
6B	47.5	1 1/2"	PLANTS
	55.3		
7A	9.4	1"	PLANTS
7B	40.8	1 1/2"	PLANTS
	50.2		
8	54.5	2"	PLANTS
9A	34.5	1 1/2"	PLANTS
9B	22.6	1 1/2"	PLANTS
	57.1		
10A	16.2	1"	TURF
10B	26.2	1 1/2"	TURF
	42.4		
11	57.5	2"	TURF
12	52.5	2"	TURF
13	45.9	1 1/2"	TURF
14A	18.1	1"	TURF
14B	33.6	1 1/2"	TURF
	51.7		
15	34.4	1 1/2"	TURF
16A	24.7	1 1/2"	TURF
16B	31.2	1 1/2"	TURF
	55.9		
17	32.5	1 1/2"	TURF
18	33.7	1 1/2"	TURF
19	40.9	1 1/2"	TURF
20	38.3	1 1/2"	TURF
21	38.6	1 1/2"	TURF
22	38.2	1 1/2"	TURF
23	36.9	1 1/2"	TURF
24	54.0	2"	TURF
25	55.1	2"	TURF
26	43.8	1 1/2"	TURF

CONTROLLER SCHEDULE SYSTEM "B"

ZONE	GPM	VALVE SIZE	TYPE
1A	26.5	1 1/2"	PLANTS
1B	23.4	1 1/2"	PLANTS
	49.9		
2A	16.6	1"	PLANTS
2B	38.3	1 1/2"	PLANTS
	54.9		
3A	36.5	1 1/2"	PLANTS
3B	14.6	1"	PLANTS
	51.1		
4A	32.0	1 1/2"	PLANTS
4B	16.1	1"	PLANTS
	48.1		
5A	39.3	1 1/2"	PLANTS
5B	9.3	1"	PLANTS
	48.6		
6A	24.6	1 1/2"	PLANTS
6B	18.2	1"	PLANTS
	42.8		
7	47.8	1 1/2"	PLANTS
8A	41.7	1 1/2"	PLANTS
8B	9.8	1"	PLANTS
	52.5		
9A	38.3	1 1/2"	TURF
9B	13.7	1"	TURF
	52.0		
10A	34.8	1 1/2"	TURF
10B	20.5	1"	TURF
	55.3		
11	56.6	2"	TURF
12A	17.4	1"	TURF
12B	36.4	1 1/2"	TURF
	53.8		
13A	16.4	1"	TURF
13B	34.3	1 1/2"	TURF
	50.7		
14	30.6	1 1/2"	TURF
15	30.6	1 1/2"	TURF
16	32.0	1 1/2"	TURF
17A	21.0	1"	TURF
17B	26.2	1 1/2"	TURF
	47.2		
18	37.0	1 1/2"	TURF
19	43.3	1 1/2"	TURF
20	39.2	1 1/2"	TURF
21	46.8	1 1/2"	TURF
22	48.0	1 1/2"	TURF

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STATE OF FLORIDA
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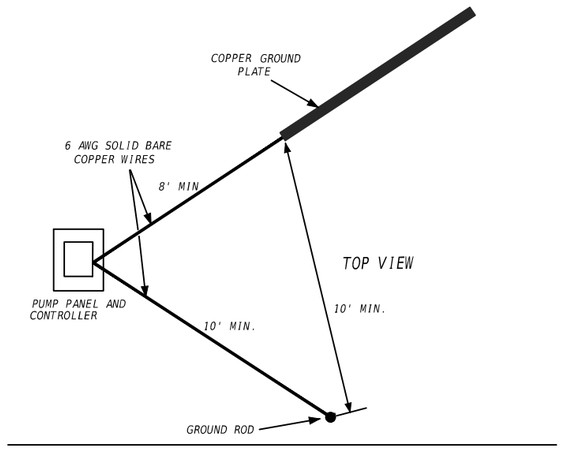
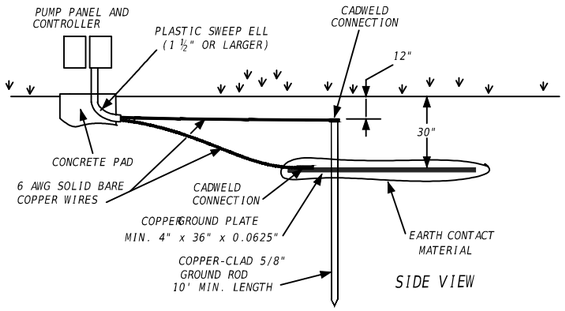
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION DETAILS

SHEET NO.
74





THE CONTROLLER IS GROUNDED TO A GROUND ROD AND GROUNDING PLATE WITH LESS THEN 10 OHMS RESISTANCE. THE GROUND SHOULD BE MEASURED WITH A GROUND RESISTANCE METER. THE CONTROLLER GROUND TEST SHALL BE SUBMITTED TO THE ENGINEER.

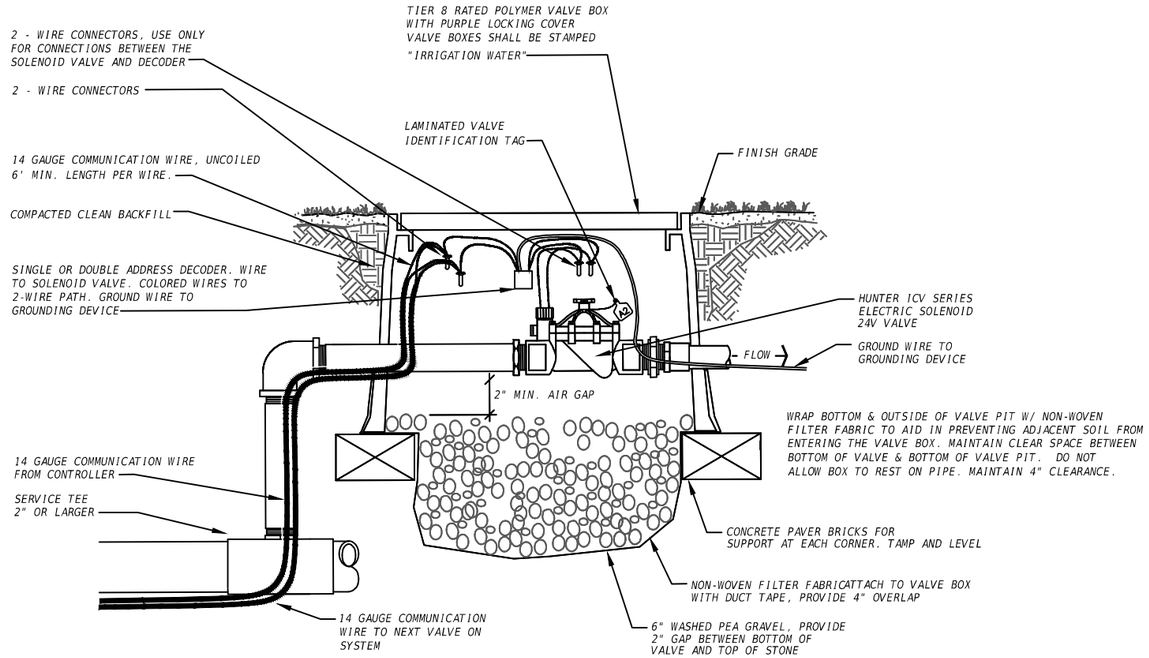
GROUNDING PLATE DETAIL

NTS

GROUNDING NOTE

MINIMUM LEVEL OF SURGE PROJECT IS TO HAVE ONE DECODER GROUNDED AT THE END OF EACH WIRE PATH AND ONE DECODER GROUNDED EVERY 1,000 FEET OF WIRE RUN. BOTH THE CONTROLLER AND DECODERS (WHERE SHOWN) ARE GROUNDED TO GROUND RODS OR PLATES WITH LESS THEN 10 OHMS RESISTANCE. THE GROUND SHOULD BE MEASURED WITH A GROUND RESISTANCE METER. EACH GROUND TEST SHALL BE SUBMITTED TO THE ENGINEER.

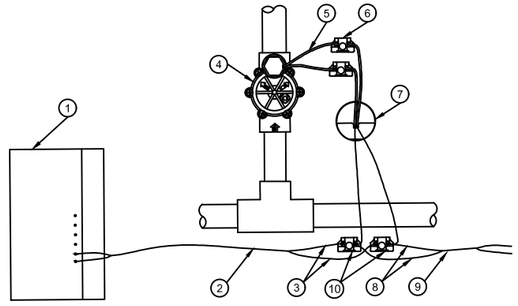
DECODER SYSTEM WITH GROUNDING SHALL BE INSTALLED PER MANUFACTURER'S PUBLISHED INSTRUCTIONS.



NOTE: VALVE BOX TO HOUSE TWO OR MORE CONTROL VALVES WHERE APPLICABLE

HUNTER ICV SERIES CONTROL VALVE ASSEMBLY

NTS



1. HUNTER ACC2 DECODER CONTROLLER
2. TWO-WIRE TO DECODER CONTROLLER
3. COMMUNICATION WIRE TO DECODER CONTROLLER
4. REMOTE CONTROL VALVE
5. 5' MIN. LENGTH OF 14-2 GAUGE SOLENOID WIRE
6. "HIT" DBC-Y CONNECTORS (1 OF 2)
7. HUNTER ICD-100 SINGLE ADDRESS DECODER
8. COMMUNICATION WIRE TO NEXT DEVICE (FIELD DECODER, SENSOR DECODER, DECODER CONTROLLER)
9. TWO WIRE CABLE TO NEXT DEVICE (FIELD DECODER, SENSOR DECODER, OR DECODER CONTROLLER)
10. 3M DBC-6 WIRE CONNECTORS

NOTE:
MAXIMUM LENGTH OF SECONDARY WIRE PATH (14 AWG) FROM FIELD DECODER TO SOLENOID IS 100 FEET.

HUNTER ICD-100 SINGLE ADDRESS DECODER WIRING TO VALVE AND CONTROLLER

NTS

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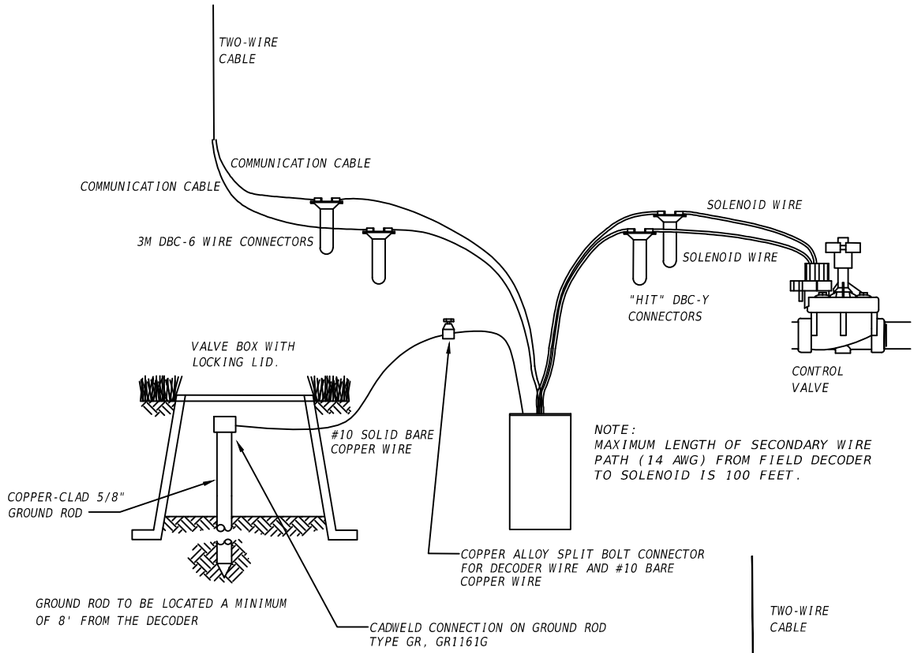
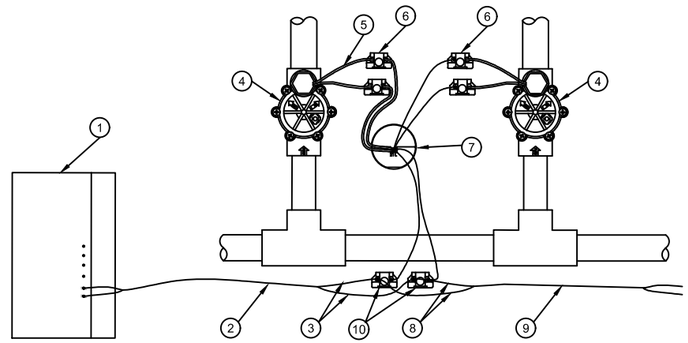
IRRIGATION DETAILS

SHEET NO.
75



HUNTER ICD-100 SINGLE ADDRESS DECODER WIRING DIAGRAM

NTS

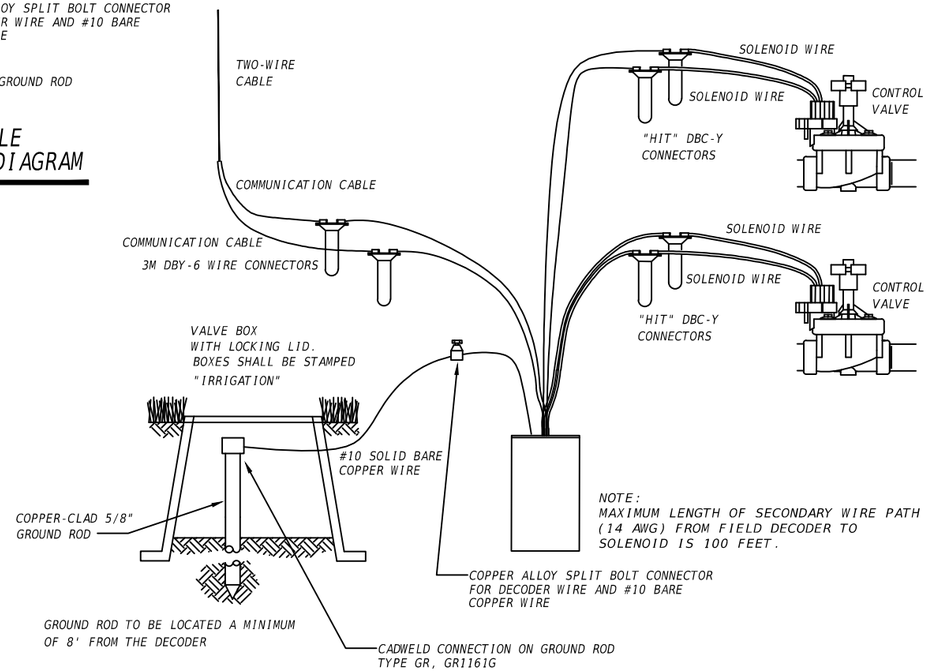


NOTE:
MAXIMUM LENGTH OF SECONDARY WIRE PATH
(14 AWG) FROM DECODER TO SOLENOID IS 100 FEET.

HUNTER ICD-200 TWO ADDRESS DECODER WIRING TO VALVES AND CONTROLLER

NTS

1. HUNTER ACC2 DECODER CONTROLLER
2. TWO-WIRE TO DECODER CONTROLLER
3. COMMUNICATION WIRE TO DECODER CONTROLLER
4. REMOTE CONTROL VALVE
5. 5' MIN. LENGTH OF 14-2 GAUGE SOLENOID WIRE
6. "HIT" DBC-Y CONNECTORS (1 OF 4)
7. HUNTER ICD-200 TWO ADDRESS DECODER
8. COMMUNICATION WIRE TO NEXT DEVICE (FIELD DECODER, SENSOR DECODER, DECODER CONTROLLER)
9. TWO WIRE CABLE TO NEXT DEVICE (FIELD DECODER, SENSOR DECODER, OR DECODER CONTROLLER)
10. 3M DBC-6 WIRE CONNECTORS



HUNTER ICD-200 TWO ADDRESS DECODER WIRING DIAGRAM

NTS

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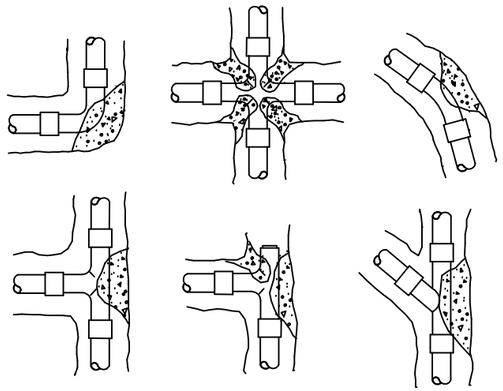
IRRIGATION DETAILS

SHEET NO.
76



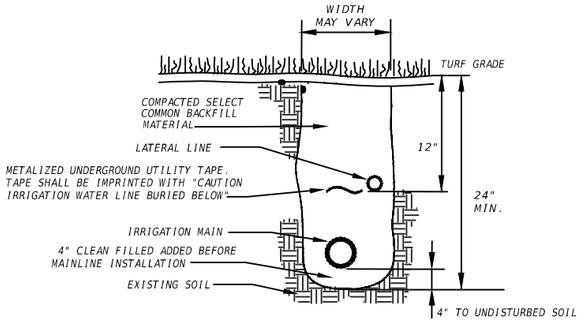
INSTALLATION NOTES

1. 3000 PSI CONCRETE OR BETTER IS TO BE USED FOR THRUST BLOCKS.
2. FOR 45°/90° FITTINGS, MINIMUM OF 2 CUBIC FEET OF CONCRETE TO BE USED.
3. FOR 22-1/2° FITTINGS, MINIMUM OF 0.5 CUBIC FEET OF CONCRETE TO BE USED.
4. FOR TEES, MINIMUM OF 2 CUBIC FEET OF CONCRETE TO BE USED.

THRUST BLOCKS REQUIRED FOR IRRIGATION MAINLINE 3" AND LARGER.

THRUST BLOCK REINFORCEMENT

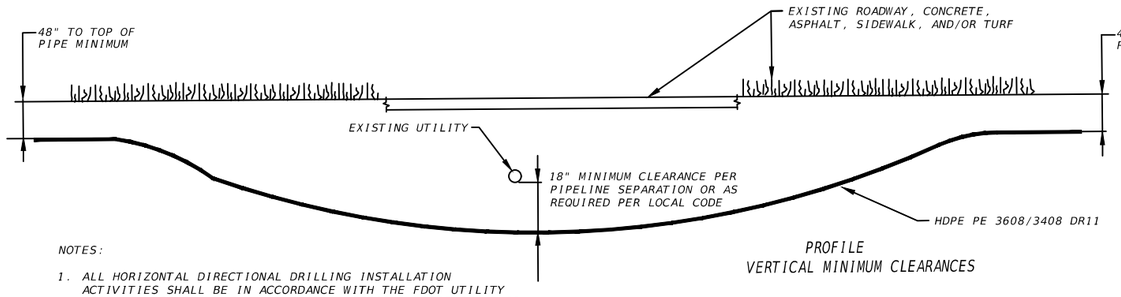
NTS



1. DEPTH MEASUREMENTS ARE TO BE DONE FROM FINISH GRADE TO TOP OF PIPE.
2. PROVIDE A 6" MINIMUM VERTICAL SEPARATION BETWEEN MAINLINES AND LATERAL LINES.
3. ALL TRENCHES SHALL BE BACKFILLED WITH CLEAN SOIL FREE OF DEBRIS & NOXIOUS WEEDS. TRENCHES SHALL BE COMPACTED AND ADDITIONAL BACKFILL ADDED TO MEET GRADE.

TRENCHING DETAIL

NTS



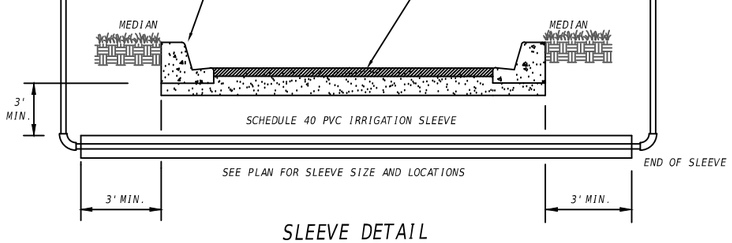
PROFILE
VERTICAL MINIMUM CLEARANCES

NOTES:

1. ALL HORIZONTAL DIRECTIONAL DRILLING INSTALLATION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE FDOT UTILITY ACCOMMODATIONS MANUAL, AND FDOT DIRECTIONAL BORE STANDARD SPECIFICATION 555.
2. TAKE RESPONSIBILITY FOR NOTIFICATION OF AFFECTED AGENCIES AND COORDINATION WITH ALL UTILITIES PRIOR TO CONSTRUCTION.
3. ALL CONSTRUCTION MATERIALS, INCLUDING DRILLING FLUID, SHALL BE REMOVED FROM THE SITE PRIOR TO RESTORATION OF DISTURBED AREAS.
4. EXCAVATIONS SHALL BE RESTORED IN ACCORDANCE WITH THE LOCAL UTILITIES STANDARD MANUAL AND STANDARD DETAILS FOR TRENCH RESTORATION.
5. CASING DIAMETER SHALL BE IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

TYPICAL HORIZONTAL DIRECTIONAL DRILL

NTS



SLEEVE DETAIL

NTS

NOTE:

WHERE IRRIGATION DIRECTIONAL BORE SLEEVES ARE INSTALLED UNDER RAMPS AND ROADWAYS A METAL MARKER SHALL BE INSTALLED WITH FLAT HEAD TAP-CON SCREWS AT BOTH CURBS OR EDGE OF PAVEMENT IDENTIFYING THE LOCATION OF THE INSTALLED SLEEVE.
THE MARKER SHALL INDICATE THE SLEEVE SIZE AND DEPTH TO TOP OF SLEEVE.

THE MARKER SHALL BE STAINLESS STEEL 3" LONG X 1" WIDE X 1/16" THICK WITH THE SIZE AND DEPTH ENGRAVED OR STAMPED ONTO THE STAINLESS STEEL MARKERS.

IRRIGATION SLEEVE
6" SIZE
48" MIMINUM DEPTH

SLEEVE MARKER

NTS

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Eugene W. Colborn, Jr., RLA
LA# 1484
Colborn Design Group, Inc
11628 Somerset Avenue
Princess Anne, MD 21853

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION DETAILS

SHEET NO. 77

1. SITE DESCRIPTION

A. NATURE OF CONSTRUCTION ACTIVITY:
THE CONSTRUCTION ACTIVITY INCLUDES LANDSCAPE IMPROVEMENTS TO SELECTED LOCATIONS ALONG SR 30/US 98 FROM WILLIAM T. MARLER BRIDGE TO AIRPORT ROAD, IN OKALOOSA COUNTY.

B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:
IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED IN WRITING BY THE ENGINEER.

SEQUENCE:
1. CONSTRUCT EROSION CONTROL MEASURES
2. CLEAR & GRUB MEDIANS FOR PLANTINGS
3. PREPARE MEDIAN EDGES AND PLACE TOPSOIL LAYER
4. INSTALL IRRIGATION AS SPECIFIED IN THE NOTES & PLANS
5. PLANT TREES, SHRUBS, AND NATIVE GRASSES
6. PLACE SOD AND MULCH PRIOR TO REMOVING EROSION CONTROL

C. AREA ESTIMATES:
TOTAL SITE AREA: 3.32 ACRES
TOTAL AREA TO BE DISTURBED: 3.32 ACRES

D. RUNOFF DATA:
RUNOFF COEFFICIENTS:
BEFORE: 0.25 TO 0.95
DURING: 0.25 TO 0.95
AFTER: 0.25 TO 0.95

OUTFALL INFORMATION:

OUTFALL DESC: N/A
LOCATION: N/A
RECEIVING WATERS: GULF OF MEXICO

E. LOCATION OF DRAINAGE AREAS:
THE PROJECT IS LOCATED IN SECTION 1, TOWNSHIP 2 SOUTH , RANGE 23 WEST AND RANGE 22 WEST OF THE US GEOLOGICAL SURVEY (USGS) COORDINATE SYSTEM. THE SITE IS LOCATED ALONG SR 30 (US 98) IN OKALOOSA COUNTY, FLORIDA.

F. NAME OF RECEIVING WATERS:
GULF OF MEXICO

G. USE THE PLAN SET KEY SHEET, LAYOUT SHEET AND PLANS TO LOCATE PROJECT IN LIEU OF A SITE MAP.

2. CONTROLS

THE FOLLOWING DISCUSSION DEFINES GENERAL GUIDELINES FOR THE SEQUENCE OF CONSTRUCTION AND THE USE OF STABILIZATION AND STRUCTURAL PRACTICES. THE EROSION AND SEDIMENT CONTROL IS IDENTIFIED IN THE FDOT STANDARD SPECIFICATIONS.

A. EROSION AND SEDIMENT CONTROLS:
FOR EACH CONSTRUCTION ACTIVITY, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT PRIOR TO BEGINNING OTHER WORK. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

B. STORMWATER MANAGEMENT:
EXISTING STORMWATER MANAGEMENT AREAS (SWALES, CULVERTS, ENDWALLS, ETC) ARE TO BE MAINTAINED UNLESS DISTURBED BY CONSTRUCTION.

C. OTHER CONTROLS:
a. OFFSITE VEHICLE TRACKING:
LOADED HAUL TRUCKS ARE TO BE COVERED WITH TARPS, EXCESS DIRT ON ROADWAY IS TO BE REMOVED DAILY.

b. FERTILIZER & PESTICIDE:
FERTILIZER WILL BE APPLIED IN ACCORDANCE WITH SECTION 570 OF THE SPECIFICATIONS.

c. FEDERAL, STATE, AND LOCAL PLANS AND PERMITS:
FDEP NPDES PERMIT (TO BE OBTAINED BY THE CONTRACTOR)

3. MAINTENANCE:

THE FOLLOWING DISCUSSION DEFINES GENERAL GUIDELINES FOR THE MAINTENANCE OF STABILIZATION AND STRUCTURAL PRACTICES.

ITEM:	PROPOSED MAINTENANCE:
INLET PROTECTION SYSTEMS & ARTIFICIAL COVERINGS/ROLLED EROSION CONTROL PRODUCTS	IN ACCORDANCE WITH SPECIFICATION 104

4. INSPECTION:

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER A RAIN EVENT OF 0.5 INCHES OR GREATER.

* DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
* PERMANENTLY STABILIZED AREAS.
* AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
* STRUCTURAL CONTROLS & STORMWATER MANAGEMENT SYSTEMS.
* LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

5. NON-STORMWATER DISCHARGES:

IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT THE FLORIDA DEPARTMENT OF TRANSPORTATION, DISTRICT 3, ENVIRONMENTAL MANAGEMENT OFFICE, DISTRICT CONTAMINATION IMPACT COORDINATOR: (850)-330-1511.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

NICHOLAS A. GROSSO, P.E.
P.E. LICENSE NUMBER 71591
CHIPOLA ENGINEERING GROUP, INC.
1695 METROPOLITAN CIRCLE, SUITE 2
TALLAHASSEE, FLORIDA 32308

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

STORMWATER POLLUTION PREVENTION PLAN

SHEET NO. 78

TRAFFIC CONTROL GENERAL NOTES:

1. LANE CLOSURES (TRAVEL LANES, TURN LANES, & MEDIAN OPENINGS) ARE PROHIBITED BETWEEN THE HOURS OF 5:30 AM TO 9:00 PM MONDAY THRU THURSDAY AND FROM FRIDAY AT 5:30 AM TO 9:00 PM SUNDAY.

2. ALL LANES MUST BE REOPENED TO NORMAL TRAFFIC WITHIN 12 HOURS OF AN EVACUATION NOTICE FOR A HURRICANE OR ANY OTHER EMERGENCY EVENT AND SHALL REMAIN OPEN UNTIL OTHERWISE DIRECTED BY THE ENGINEER.

3. SPECIAL EVENTS FOR THIS PROJECT INCLUDE:

   SPRING BREAK (MARCH 12-28, 2021)
   OPEN HOUSE AND AIR SHOW (APRIL)
   BILLY BOWLEGS PIRATE FESTIVAL (SUMMER)
   GREEK FESTIVAL (SEPTEMBER)
   SEAFOOD FESTIVAL-DESTIN (SEPTEMBER/OCTOBER)
   MARDI GRAS ON THE ISLAND (FEBRUARY)
   DESTIN MARATHON (FEBRUARY)
   RED CROSS RUN (AUGUST)

4. EXISTING POSTED SPEED (35 MPH) SHALL BE USED FOR TRAFFIC CONTROL DURING CONSTRUCTION.

5. CONTRACTOR SHALL COORDINATE WITH E.C. RIDER (850-833-9168) TO MINIMIZE IMPACTS TO THE PUBLIC TRANSPORTATION ROUTE AND STOP LOCATIONS.

TRAFFIC PHASING NOTES:

PHASE I

1. INSTALL ALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH REQUIRED STANDARD PLANS DEPENDENT ON THE OPERATION TO BE PERFORMED. INSTALL SIDE STREET SIGNAGE PER STANDARD PLANS 102-600 ON THE FOLLOWING SIDE STREETS:
   -CALHOUN AVENUE
   -STAHLMAN AVENUE
   -PALMETTO STREET
   -MARLER STREET
   -MELVIN STREET
   -BENNING DRIVE
   -BEACH DRIVE
   -MAIN STREET
   -GULF SHORE DRIVE
   -PALMS STREET
   -SANDPRINT DRIVE
   -AIRPORT ROAD

PHASE II

1. INSTALL EROSION CONTROL MEASURES.
2. REMOVE ALL SHRUBS, GROUNDCOVERS, AND TURF FROM MEDIANS. REMOVE TREES IDENTIFIED FOR REMOVAL.
3. PREPARE MEDIAN EDGES AND PLACE TOPSOIL LAYER.
4. MARK EXISTING UNDERGROUND UTILITIES IN AREAS OF PLANTING AND INSTALLATION.
5. INSTALL IRRIGATION AS SPECIFIED IN THE IRRIGATION NOTES & PLANS.
6. INSTALL TREES, SHRUB/NATIVE SOD, AND GROUNDCOVER PLANTING IN ACCORDANCE WITH LANDSCAPE PLANS.

PHASE III

1. INSTALL FINAL MULCHING AND SODDING.
2. REMOVE ALL TRAFFIC CONTROL DEVICES AND ALL CONSTRUCTION SIGNAGE.

MESSAGE A
SR 30
RD WORK
BEGINS

MESSAGE B
MONTH
DAY
YEAR

SR 30 (US 98) PCMS DISPLAY

7 DAYS PRIOR TO CONSTRUCTION (NTS)

MESSAGE A
ROAD
WORK
AHEAD

MESSAGE B
USE
CAUTION

SR 30 (US 98) PCMS DISPLAY

DURING LANDSCAPING PROJECT (WHERE APPLICABLE) (NTS)

MESSAGE A
LANE
CLOSURE
AHEAD

MESSAGE B
USE
CAUTION

SR 30 (US 98) PCMS DISPLAY

DURING LANDSCAPING PROJECT (WHERE APPLICABLE) (NTS)

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

NICHOLAS A. GROSSO, P.E.
P.E. LICENSE NUMBER 71591
CHIPOLA ENGINEERING GROUP, INC.
1695 METROPOLITAN CIRCLE, SUITE 2
TALLAHASSEE, FLORIDA 32308

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. 79

LANDSCAPE TABULATION OF QUANTITIES

PAY ITEM NO.	SYM	DESCRIPTION (BOTANICAL NAME / COMMON NAME; SIZE; SPACING; DETAILS)	MAX. MAINT. SIZE	REMARKS	UNIT	SHEET NUMBERS 12 PLAN	12 FINAL	13 PLAN	13 FINAL	14 PLAN	14 FINAL	15 PLAN	15 FINAL	TOTAL THIS SHEET PLAN	TOTAL THIS SHEET FINAL	GRAND TOTAL PLAN	GRAND TOTAL FINAL
526-1-2		CONCRETE PAVERS		2 3/4 X4X8	SY												
		LIMESTONE BOULDERS		2' X 3' X 4', 18" EXPOSED	EA							6					
580-1-1		SMALL PLANTS															
	IC	ILEX CORNUTA 'BURFORDII NANA' / DWARF BURFORD HOLLY, 3 GAL., 18" HT X 16" spr.			EA			35		55							
	LM	LIRIOPE MUSCARI 'EMERALD GODDESS' / EMERALD GODDESS LIRIOPE, 1 GAL., 12" X 12", FULL.	18"		EA			223		838		51					
	LC	LOROPETALUM CHINENSE 'PURPLE PIXIE' /DWARF LOROPETALUM, 1 GAL., 6" HT. X 8" SPR.			EA												
	PQ	PASPALUM QUADRIFARIUM / CROWN GRASS, 1 GAL., 16" HT.X 12" SPR.			EA												
	RF	RHODODENDRON X 'FASHION' / FASHION AZALEA, 3 GAL., 18" HT. X 16" SPR.			EA							116					
	TA	TRACHELOSPERMUM ASIATICUM 'MINIMA' / MINIMA JASMINE, 1 GAL. 6" HT. X 12"SPR., 5 RUNNERS MIN.	18"		EA			356				297					
	TC	TRACHELOSPERMUM JASMINOIDES VARIEGATUM / VARIEGATED CONFEDERATE JASMINE, 1 GAL. 6" HT. X 12"SPR., 5 RUNNERS MIN.	18"		EA												
	YF	YUCCA FILAMENTOSA 'COLOR GUARD' / VARIEGATED ADAM'S NEEDLE, 3 GAL., 14" HT.X 14"SPR.	18"		EA							52					
580-1-2		LARGE PLANTS															
	IV	ILEX VOMITORIA / YAUPON HOLLY, FG, 10'-12' HT X 6' SPD, TREE FORM, MULTI-TRUNK, 4' CT.			EA					3							
	QV	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK, 100 GAL, 14'-16' HT X 7' SPR., 4" IN CAL., 6' CT.			EA					2							
		PINE BARK FINES / 3" WETTED DEPTH		MINIMA JASMINE AND CONFEDERATE JASMINE AREAS	CY			7				6					
		PINE BARK MINI NUGGETS/ 3" WETTED DEPTH			CY			6		20		10					

LANDSCAPE TABULATION OF QUANTITIES

PAY ITEM NO.	SYM	DESCRIPTION (BOTANICAL NAME / COMMON NAME; SIZE; SPACING; DETAILS)	MAX. MAINT. SIZE	REMARKS	UNIT	SHEET NUMBERS 16 PLAN	16 FINAL	17 PLAN	17 FINAL	18 PLAN	18 FINAL	19 PLAN	19 FINAL	TOTAL THIS SHEET PLAN	TOTAL THIS SHEET FINAL	GRAND TOTAL PLAN	GRAND TOTAL FINAL
526-1-2		CONCRETE PAVERS		2 3/4 X4X8	SY												
		LIMESTONE BOULDERS		2' X 3' X 4', 18" EXPOSED	EA			6									
580-1-1		SMALL PLANTS															
	IC	ILEX CORNUTA 'BURFORDII NANA' / DWARF BURFORD HOLLY, 3 GAL., 18" HT X 16" spr.			EA	180				80		39					
	LM	LIRIOPE MUSCARI 'EMERALD GODDESS' / EMERALD GODDESS LIRIOPE, 1 GAL., 12" X 12", FULL.	18"		EA	116		876									
	LC	LOROPETALUM CHINENSE 'PURPLE PIXIE' /DWARF LOROPETALUM, 1 GAL., 6" HT. X 8" SPR.			EA			37				159					
	PQ	PASPALUM QUADRIFARIUM / CROWN GRASS, 1 GAL., 16" HT.X 12" SPR.			EA												
	RF	RHODODENDRON X 'FASHION' / FASHION AZALEA, 3 GAL., 18" HT. X 16" SPR.			EA							37					
	TA	TRACHELOSPERMUM ASIATICUM 'MINIMA' / MINIMA JASMINE, 1 GAL. 6" HT. X 12"SPR., 5 RUNNERS MIN.	18"		EA												
	TC	TRACHELOSPERMUM JASMINOIDES VARIEGATUM / VARIEGATED CONFEDERATE JASMINE, 1 GAL. 6" HT. X 12"SPR., 5 RUNNERS MIN.	18"		EA												
	YF	YUCCA FILAMENTOSA 'COLOR GUARD' / VARIEGATED ADAM'S NEEDLE, 3 GAL., 14" HT.X 14"SPR.	18"		EA			38									
580-1-2		LARGE PLANTS															
	IV	ILEX VOMITORIA / YAUPON HOLLY, FG, 10'-12' HT X 6' SPD, TREE FORM, MULTI-TRUNK, 4' CT.			EA	6		4									
	QV	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK, 100 GAL, 14'-16' HT X 7' SPR., 4" IN CAL., 6' CT.			EA							1					
		PINE BARK FINES / 3" WETTED DEPTH		MINIMA JASMINE AND CONFEDERATE JASMINE AREAS	CY												
		PINE BARK MINI NUGGETS/ 3" WETTED DEPTH			CY	13		20		5		10					

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

James S. Gilman, RLA
LA# 1628
AECOM Technical Services, Inc
7650 West Courtney Campbell Causeway
Tampa, FL 33607-1462

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

TABULATION OF QUANTITIES

SHEET NO. 80

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

LANDSCAPE TABULATION OF QUANTITIES

PAY ITEM NO.	SYM	DESCRIPTION (BOTANICAL NAME / COMMON NAME; SIZE; SPACING; DETAILS)	MAX. MAINT. SIZE	REMARKS	UNIT	SHEET NUMBERS								TOTAL THIS SHEET		GRAND TOTAL	
						20		21		22		23					
						PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
526-1-2		CONCRETE PAVERS		2 3/4X4X8	SY												
		LIMESTONE BOULDERS		2' X 3' X 4', 18" EXPOSED	EA	6											
580-1-1		SMALL PLANTS															
	IC	ILEX CORNUTA 'BURFORDII NANA'/DWARF BURFORD HOLLY, 3 GAL., 18" HT X 16" spr.			EA	150		48		31		97					
	LM	LIRIOPE MUSCARI 'EMERALD GODDESS' / EMERALD GODDESS LIRIOPE, 1 GAL., 12" X 12", FULL.	18"		EA	74		773									
	LC	LOROPETALUM CHINENSE 'PURPLE PIXIE' /DWARF LOROPETALUM, 1 GAL., 6" HT. X 8" SPR.			EA	303		150									
	PQ	PASPALUM QUADRIFARIUM / CROWN GRASS, 1 GAL., 16" HT.X 12" SPR.			EA							40					
	RF	RHODODENDRON X 'FASHION' / FASHION AZALEA, 3 GAL., 18" HT. X 16" SPR.			EA	60						167					
	TA	TRACHELOSPERMUM ASIATICUM 'MINIMA' / MINIMA JASMINE, 1 GAL. 6" HT. X 12"SPR., 5 RUNNERS MIN.	18"		EA												
	TC	TRACHELOSPERMUM JASMINOIDES VARIEGATUM / VARIEGATED CONFEDERATE JASMINE, 1 GAL. 6" HT. X 12"SPR., 5 RUNNERS MIN.	18"		EA			622		333							
	YF	YUCCA FILAMENTOSA 'COLOR GUARD' / VARIEGATED ADAM'S NEEDLE, 3 GAL., 14" HT.X 14"SPR.	18"		EA	74											
580-1-2		LARGE PLANTS															
	IV	ILEX VOMITORIA / YAUPON HOLLY, FG, 10'-12' HT X 6' SPD, TREE FORM, MULTI-TRUNK, 4' CT.			EA	2		1									
	QV	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK, 100 GAL, 14'-16' HT X 7' SPR., 4" IN CAL., 6' CT.			EA	3				1		7					
		PINE BARK FINES / 3" WETTED DEPTH		MINIMA JASMINE AND CONFEDERATE JASMINE AREAS	CY			12		7							
		PINE BARK MINI NUGGETS/ 3" WETTED DEPTH			CY	27		23		2		20					

LANDSCAPE TABULATION OF QUANTITIES

PAY ITEM NO.	SYM	DESCRIPTION (BOTANICAL NAME / COMMON NAME; SIZE; SPACING; DETAILS)	MAX. MAINT. SIZE	REMARKS	UNIT	SHEET NUMBERS								TOTAL THIS SHEET		GRAND TOTAL	
						24		25		26		27					
						PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
526-1-2		CONCRETE PAVERS		2 3/4X4X8	SY												
		LIMESTONE BOULDERS		2' X 3' X 4', 18" EXPOSED	EA												
580-1-1		SMALL PLANTS															
	IC	ILEX CORNUTA 'BURFORDII NANA'/DWARF BURFORD HOLLY, 3 GAL., 18" HT X 16" spr.			EA	508		224		28							
	LM	LIRIOPE MUSCARI 'EMERALD GODDESS' / EMERALD GODDESS LIRIOPE, 1 GAL., 12" X 12", FULL.	18"		EA	364		33		970		458					
	LC	LOROPETALUM CHINENSE 'PURPLE PIXIE' /DWARF LOROPETALUM, 1 GAL., 6" HT. X 8" SPR.			EA					106							
	PQ	PASPALUM QUADRIFARIUM / CROWN GRASS, 1 GAL., 16" HT.X 12" SPR.			EA	47		233				129					
	RF	RHODODENDRON X 'FASHION' / FASHION AZALEA, 3 GAL., 18" HT. X 16" SPR.			EA												
	TA	TRACHELOSPERMUM ASIATICUM 'MINIMA' / MINIMA JASMINE, 1 GAL. 6" HT. X 12"SPR., 5 RUNNERS MIN.	18"		EA					399							
	TC	TRACHELOSPERMUM JASMINOIDES VARIEGATUM / VARIEGATED CONFEDERATE JASMINE, 1 GAL. 6" HT. X 12"SPR., 5 RUNNERS MIN.	18"		EA												
	YF	YUCCA FILAMENTOSA 'COLOR GUARD' / VARIEGATED ADAM'S NEEDLE, 3 GAL., 14" HT.X 14"SPR.	18"		EA												
580-1-2		LARGE PLANTS															
	IV	ILEX VOMITORIA / YAUPON HOLLY, FG, 10'-12' HT X 6' SPD, TREE FORM, MULTI-TRUNK, 4' CT.			EA					6							
	QV	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK, 100 GAL, 14'-16' HT X 7' SPR., 4" IN CAL., 6' CT.			EA	2		7				2					
		PINE BARK FINES / 3" WETTED DEPTH		MINIMA JASMINE AND CONFEDERATE JASMINE AREAS	CY					8							
		PINE BARK MINI NUGGETS/ 3" WETTED DEPTH			CY	26		26		25		16					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

James S. Gilman, RLA
LA# 1628
AECOM Technical Services, Inc
7650 West Courtney Campbell Causeway
Tampa, FL 33607-1462

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

TABULATION OF QUANTITIES

SHEET NO. 81

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

LANDSCAPE TABULATION OF QUANTITIES

PAY ITEM NO.	SYM	DESCRIPTION (BOTANICAL NAME / COMMON NAME; SIZE; SPACING; DETAILS)	MAX. MAINT. SIZE	REMARKS	UNIT	SHEET NUMBERS 28 PLAN	28 FINAL	29 PLAN	29 FINAL	30 PLAN	30 FINAL	31 PLAN	31 FINAL	TOTAL THIS SHEET PLAN	TOTAL THIS SHEET FINAL	GRAND TOTAL PLAN	GRAND TOTAL FINAL
526-1-2		CONCRETE PAVERS		2 3/4 X4X8	SY			8				7					
		LIMESTONE BOULDERS		2' X 3' X 4', 18" EXPOSED	EA												
580-1-1		SMALL PLANTS															
	IC	ILEX CORNUTA 'BURFORDII NANA' / DWARF BURFORD HOLLY, 3 GAL., 18" HT X 16" spr.			EA			77				79					
	LM	LIRIOPE MUSCARI 'EMERALD GODDESS' / EMERALD GODDESS LIRIOPE, 1 GAL., 12" X 12", FULL.	18"		EA	292						510					
	LC	LOROPETALUM CHINENSE 'PURPLE PIXIE' /DWARF LOROPETALUM, 1 GAL., 6" HT. X 8" SPR.			EA	115		287									
	PQ	PASPALUM QUADRIFARIUM / CROWN GRASS, 1 GAL., 16" HT.X 12" SPR.			EA												
	RF	RHODODENDRON X 'FASHION' / FASHION AZALEA, 3 GAL., 18" HT. X 16" SPR.			EA			115									
	TA	TRACHELOSPERMUM ASIATICUM 'MINIMA' / MINIMA JASMINE, 1 GAL. 6" HT. X 12"SPR., 5 RUNNERS MIN.	18"		EA			871									
	TC	TRACHELOSPERMUM JASMINOIDES VARIEGATUM / VARIEGATED CONFEDERATE JASMINE, 1 GAL. 6" HT. X 12"SPR., 5 RUNNERS MIN.	18"		EA												
	YF	YUCCA FILAMENTOSA 'COLOR GUARD' / VARIEGATED ADAM'S NEEDLE, 3 GAL., 14" HT.X 14"SPR.	18"		EA												
580-1-2		LARGE PLANTS															
	IV	ILEX VOMITORIA / YAUPON HOLLY, FG, 10'-12' HT X 6' SPD, TREE FORM, MULTI-TRUNK, 4' CT.			EA	3											
	QV	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK, 100 GAL, 14'-16' HT X 7' SPR., 4" IN CAL., 6' CT.			EA			4									
		PINE BARK FINES / 3" WETTED DEPTH		MINIMA JASMINE AND CONFEDERATE JASMINE AREAS	CY			17									
		PINE BARK MINI NUGGETS/ 3" WETTED DEPTH			CY	10		21				15					

LANDSCAPE TABULATION OF QUANTITIES

PAY ITEM NO.	SYM	DESCRIPTION (BOTANICAL NAME / COMMON NAME; SIZE; SPACING; DETAILS)	MAX. MAINT. SIZE	REMARKS	UNIT	SHEET NUMBERS 32 PLAN	32 FINAL	33 PLAN	33 FINAL	34 PLAN	34 FINAL	35 PLAN	35 FINAL	TOTAL THIS SHEET PLAN	TOTAL THIS SHEET FINAL	GRAND TOTAL PLAN	GRAND TOTAL FINAL
526-1-2		CONCRETE PAVERS		2 3/4 X4X8	SY	26		50				17					
		LIMESTONE BOULDERS		2' X 3' X 4', 18" EXPOSED	EA					6							
580-1-1		SMALL PLANTS															
	IC	ILEX CORNUTA 'BURFORDII NANA' / DWARF BURFORD HOLLY, 3 GAL., 18" HT X 16" spr.			EA			106		48							
	LM	LIRIOPE MUSCARI 'EMERALD GODDESS' / EMERALD GODDESS LIRIOPE, 1 GAL., 12" X 12", FULL.	18"		EA	675		846		340		439					
	LC	LOROPETALUM CHINENSE 'PURPLE PIXIE' /DWARF LOROPETALUM, 1 GAL., 6" HT. X 8" SPR.			EA					347							
	PQ	PASPALUM QUADRIFARIUM / CROWN GRASS, 1 GAL., 16" HT.X 12" SPR.			EA												
	RF	RHODODENDRON X 'FASHION' / FASHION AZALEA, 3 GAL., 18" HT. X 16" SPR.			EA	132						36					
	TA	TRACHELOSPERMUM ASIATICUM 'MINIMA' / MINIMA JASMINE, 1 GAL. 6" HT. X 12"SPR., 5 RUNNERS MIN.	18"		EA	337				394		178					
	TC	TRACHELOSPERMUM JASMINOIDES VARIEGATUM / VARIEGATED CONFEDERATE JASMINE, 1 GAL. 6" HT. X 12"SPR., 5 RUNNERS MIN.	18"		EA					492		381					
	YF	YUCCA FILAMENTOSA 'COLOR GUARD' / VARIEGATED ADAM'S NEEDLE, 3 GAL., 14" HT.X 14"SPR.	18"		EA					70							
580-1-2		LARGE PLANTS															
	IV	ILEX VOMITORIA / YAUPON HOLLY, FG, 10'-12' HT X 6' SPD, TREE FORM, MULTI-TRUNK, 4' CT.			EA			7									
	QV	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK, 100 GAL, 14'-16' HT X 7' SPR., 4" IN CAL., 6' CT.			EA	2				2							
		PINE BARK FINES / 3" WETTED DEPTH		MINIMA JASMINE AND CONFEDERATE JASMINE AREAS	CY	7				18		9					
		PINE BARK MINI NUGGETS/ 3" WETTED DEPTH			CY	21		23		25		13					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

James S. Gilman, RLA
LA# 1628
AECOM Technical Services, Inc
7650 West Courtney Campbell Causeway
Tampa, FL 33607-1462

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

TABULATION OF QUANTITIES

SHEET NO. 82

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

LANDSCAPE TABULATION OF QUANTITIES

PAY ITEM NO.	SYM	DESCRIPTION (BOTANICAL NAME / COMMON NAME; SIZE; SPACING; DETAILS)	MAX. MAINT. SIZE	REMARKS	UNIT	SHEET NUMBERS								TOTAL THIS SHEET		GRAND TOTAL	
						36		37		38		39					
						PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
526-1-2		CONCRETE PAVERS		2 3/4 X4X8	SY	23		26		24							
		LIMESTONE BOULDERS		2' X 3' X 4', 18" EXPOSED	EA			6									
580-1-1		SMALL PLANTS															
	IC	ILEX CORNUTA 'BURFORDII NANA' / DWARF BURFORD HOLLY, 3 GAL., 18" HT X 16" spr.			EA												
	LM	LIRIOPE MUSCARI 'EMERALD GODDESS' / EMERALD GODDESS LIRIOPE, 1 GAL., 12" X 12", FULL.	18"		EA	487		351									
	LC	LOROPETALUM CHINENSE 'PURPLE PIXIE' /DWARF LOROPETALUM, 1 GAL., 6" HT. X 8" SPR.			EA			35									
	PQ	PASPALUM QUADRIFARIUM / CROWN GRASS, 1 GAL., 16" HT.X 12" SPR.			EA												
	RF	RHODODENDRON X 'FASHION' / FASHION AZALEA, 3 GAL., 18" HT. X 16" SPR.			EA					21		66					
	TA	TRACHELOSPERMUM ASIATICUM 'MINIMA' / MINIMA JASMINE, 1 GAL. 6" HT. X 12"SPR., 5 RUNNERS MIN.	18"		EA	440											
	TC	TRACHELOSPERMUM JASMINOIDES VARIEGATUM / VARIEGATED CONFEDERATE JASMINE, 1 GAL. 6" HT. X 12"SPR., 5 RUNNERS MIN.	18"		EA					193		445					
	YF	YUCCA FILAMENTOSA 'COLOR GUARD' / VARIEGATED ADAM'S NEEDLE, 3 GAL., 14" HT.X 14"SPR.	18"		EA			36									
580-1-2		LARGE PLANTS															
	IV	ILEX VOMITORIA / YAUPON HOLLY, FG, 10'-12' HT X 6' SPD, TREE FORM, MULTI-TRUNK, 4' CT.			EA												
	QV	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK, 100 GAL, 14'-16' HT X 7' SPR., 4" IN CAL., 6' CT.			EA					1							
		PINE BARK FINES / 3" WETTED DEPTH		MINIMA JASMINE AND CONFEDERATE JASMINE AREAS	CY	9				4		9					
		PINE BARK MINI NUGGETS/ 3" WETTED DEPTH			CY	10		10		1		4					

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

James S. Gilman, RLA
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

TABULATION OF QUANTITIES

SHEET NO. 83

NOTE: QUANTITIES ARE APPROXIMATE

IRRIGATION TABULATION OF QUANTITIES

DESCRIPTION	UNIT	SYS "A"	SYS "B"	TOTAL
IRRIGATION PUMP STATION PACKAGE; INCLUDES 5" WELL WITH 7.5 HP VFD SUBMERSIBLE PUMP CAPABLE OF 60 GPM AT 65 PSI PUMP DISCHARGE, HUNTER ACC2 DECODER CONTROLLER, RAIN/WIND/FREEZE SENSOR, FLOW SENSOR, MASTER VALVE, CONCRETE PAD AND GROUNDING PLATE. REFER TO PUMP DETAIL FOR REQUIRED COMPONENTS.	EA.	1	1	2
230V SINGLE PHASE ELECTRICAL POWER FROM EXISTING PANEL TO PUMP CONTROL PANEL, INCLUDES 2" CONDUIT.	EA.	1	1	2
HUNTER ICV 2" ELECTRIC CONTROL VALVE 24V SOLENOID WITH TIER 8 RATED PURPLE VALVE BOX	EA.	5	1	6
HUNTER ICV 1 1/2" ELECTRIC CONTROL VALVE 24V SOLENOID WITH TIER 8 RATED PURPLE VALVE BOX	EA.	26	22	48
HUNTER ICV 1" ELECTRIC CONTROL VALVE 24V SOLENOID WITH TIER 8 RATED PURPLE VALVE BOX	EA.	5	11	16
PAIGE SPEC P7354D REV.4 14-2 AWG COMMUNICATION CABLE WITH WATER PROOF CONNECTORS	LF.	6,750	6,480	13,230
HUNTER ICD-100 SINGLE ADDRESS DECODER WITH WIRE CONNECTORS	EA.	10	14	24
HUNTER ICD-200 DOUBLE ADDRESS DECODER WITH WIRE CONNECTORS	EA.	8	10	18
5/8" X 10' COPPER GROUNDING ROD WITH 10 SOLID BARE COPPER WIRE AND CADWELD	EA.	11	11	22
RAIN BIRD 1401 0.25 GPM PC FLOOD BUBBLER W/ 1/2" K-FLEX PIPE @ 5' LONG	EA.	48	22	70
RAIN BIRD RD1812-S-P-30-NP 12" POP-UP SPRINKLER W/ FLOW GUARD, NON-POTABLE COVER, 1/2" K-FLEX PIPE @ 5' LONG AND MPR SPRAY NOZZLES	EA.	520	377	897
RAIN BIRD RD1806-S-P-30-NP 6" POP-UP SPRINKLER W/ FLOW GUARD, NON-POTABLE COVER, 1/2" K-FLEX PIPE @ 5' LONG AND MPR SPRAY NOZZLES	EA.	691	593	1,284
3" PVC CL 200 PANTONE PURPLE MAINLINE, SOLVENT WELD WITH SCH. 40 PVC FITTINGS	LF.	6,420	6,170	12,590
2 1/2" PVC CL 200 PANTONE PURPLE LATERAL LINE, SOLVENT WELD	LF.	20	5	25
2" PVC CL 200 PANTONE PURPLE LATERAL LINE, SOLVENT WELD	LF.	985	710	1,695
1 1/2" PVC CL 200 PANTONE PURPLE LATERAL LINE, SOLVENT WELD	LF.	695	590	1,285
1 1/4" PVC CL 200 PANTONE PURPLE LATERAL LINE, SOLVENT WELD	LF.	1,820	1,660	3,480
1" PVC CL 200 PURPLE LATERAL LINE, SOLVENT WELD	LF.	2,775	2,130	4,905
3/4" PVC CL 200 PURPLE LATERAL LINE, SOLVENT WELD	LF.	8,040	6,610	14,650
3/4" PLASTIC CONDUIT FOR COMMUNICATION CABLE WITHIN HDPE BORE AND UNDER PAVERS	LF.	2,850	2,880	5,730
6" SCHEDULE 40 PVC SLEEVE	LF.	50	45	95
4" SCHEDULE 40 PVC SLEEVE	LF.	30	15	45
2" SCHEDULE 40 PVC SLEEVE	LF.	15		15
6" HDPE PE 3608/3408 IPS DR 11 DIRECTIONAL BORE SLEEVE	LF.	2,800	2,280	5,080
2" HDPE PE 3608/3408 IPS DR 11 DIRECTIONAL BORE SLEEVE	LF.	110	65	175
GULF POWER COMPANY ELECTRICAL USAGE FEES AND SERVICE CHARGES DURING THE CONTRACT PERIOD	EA.	1	1	2
EXISTING WELL ABANDONMENT AND RENOVATION OF MEDIAN ELECTRICAL SERVICES	EA.	6	6	12

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Eugene W. Colborn, Jr., RLA
LA# 1484
Colborn Design Group, Inc
11628 Somerset Avenue
Princess Anne, MD 21853

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

IRRIGATION TABULATION OF QUANTITIES

SHEET NO. 84

SUMMARY OF LUMP SUM ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY P	QUANTITY F	DESIGN NOTES	CONSTRUCTION REMARKS
0101 1	MOBILIZATION	1			

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE I			PHASE II			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL				
			DAYS	P	P	DAYS	P	P	P	F		
0102 1	MAINTENANCE OF TRAFFIC	LS									180 CONSTRUCTION DAYS	
0102 60	WORK ZONE SIGNS	ED	10	20		160	20					
		ED	10	12		160	12				SIDE STREETS	
0102 74 1	CHANNELIZING DEVICE TYPE I,II,DI,VP,DRUM,LCD	ED	17	4		160	94					
0102 76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	10	2		160	2					
0102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	17	2		160	2				7 DAYS PRIOR TO CONST. ACTIVITIES	

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE III			TOTAL		GRAND TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL						
			DAYS	P	P	P	F	P	F		
0102 1	MAINTENANCE OF TRAFFIC	LS									
0102 60	WORK ZONE SIGNS	ED	10	20							
		ED	10	12							
0102 74 1	CHANNELIZING DEVICE TYPE I,II,DI,VP,DRUM,LCD	ED	10	94							
0102 76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	10	2							
0102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	10	2							

SUMMARY OF PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES

CONST. PHASE	LOCATION STA. TO STA.	SIDE	QUANTITY 0102 74 8 FD P	QUANTITY 0102 74 8 FD F	DESIGN NOTES	CONSTRUCTION REMARKS
2	16+46.00 to 16+58.00	RT	10		MIDBLOCK CROSSING IRRIGATION SLEEVE CONST. (1 DAY)	
2	24+32.00 to 24+43.00	LT	10		MIDBLOCK CROSSING IRRIGATION SLEEVE CONST. (1 DAY)	
2	43+31.00 to 43+40.00	RT	10		MIDBLOCK CROSSING IRRIGATION SLEEVE CONST. (1 DAY)	
2	453+86.00 to 453+96.00	LT	10		MIDBLOCK CROSSING IRRIGATION SLEEVE CONST. (1 DAY)	
2	468+61.00 to 468+72.00	LT	10		MIDBLOCK CROSSING IRRIGATION SLEEVE CONST. (1 DAY)	
	SUB-TOTAL:					
	TOTAL:					

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

NICHOLAS A. GROSSO, P.E.
P.E. LICENSE NUMBER 71591
CHIPOLA ENGINEERING GROUP, INC.
1695 METROPOLITAN CIRCLE, SUITE 2
TALLAHASSEE, FLORIDA 32308

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

SUMMARY OF QUANTITIES

SHEET NO. SQ-1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION	SIDE	AREA ID	ARTIFICIAL COVERINGS		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
			0104 1		0104 18			
STA. TO STA.			SY		EA			
			P	F	P	F		
41+25	MEDIAN	B-1	1.0				BIOBARRIER ROOT BARRIER FABRIC	
41+69	MEDIAN	B-2	1.0					
42+12	MEDIAN	B-3	1.0					
42+51	MEDIAN	B-4	1.0					
59+36	MEDIAN	B-5	1.0					
59+66	MEDIAN	B-6	1.0					
60+27	MEDIAN	B-7	1.0					
60+58	MEDIAN	B-8	1.0					
60+87	MEDIAN	B-9	1.0					
61+17	MEDIAN	B-10	1.0					
64+02	MEDIAN	B-11	1.0					
65+33	MEDIAN	B-12	1.0					
65+59	MEDIAN	B-13	1.0					
65+88	MEDIAN	B-14	1.0					
441+37	MEDIAN	B-15	1.0					
441+70	MEDIAN	B-16	1.0					
452+97	MEDIAN	B-17	1.0					
453+31	MEDIAN	B-18	1.0					
477+57	MEDIAN	B-19	1.0					
328+00.00 to 328+00.00	LT				1			
328+40.00 to 328+40.00	RT				1			
334+60.00 to 334+60.00	RT				1			
336+90.00 to 336+90.00	LT/RT				2			
14+88.00 to 14+88.00	LT/RT				2			
17+30.00 to 17+30.00	LT/RT				2			
22+11.00 to 22+11.00	LT/RT				2			
24+59.00 to 24+59.00	LT/RT				2			
32+18.00 to 32+18.00	LT/RT				2			
34+62.00 to 34+62.00	LT/RT				2			
38+52.00 to 38+52.00	LT/RT				2			
40+60.00 to 40+60.00	LT/RT				2			
42+90.00 to 42+90.00	LT/RT				2			
47+95.00 to 47+95.00	LT/RT				2			
50+30.00 to 50+30.00	LT/RT				2			
52+42.00 to 52+42.00	LT/RT				2			
54+62.00 to 54+62.00	LT/RT				2			
57+00.00 to 57+00.00	LT/RT				2			
57+90.00 to 57+90.00	LT				1			
59+21.00 to 59+21.00	LT/RT				2			
61+55.00 to 61+55.00	LT				1			
62+00.00 to 62+00.00	RT				1			
64+60.00 to 64+60.00	LT/RT				2			
70+98.00 to 70+98.00	LT/RT				2			
73+18.00 to 73+18.00	LT/RT				2			
75+37.00 to 75+37.00	LT				1			
SUB-TOTAL:								
TOTAL:								

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

NICHOLAS A. GROSSO, P.E.
P.E. LICENSE NUMBER 71591
CHIPOLA ENGINEERING GROUP, INC.
1695 METROPOLITAN CIRCLE, SUITE 2
TALLAHASSEE, FLORIDA 32308

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

SUMMARY OF QUANTITIES

SHEET NO.
SQ-2

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION	SIDE	AREA ID	ARTIFICIAL COVERINGS		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
			0104 1		0104 18			
STA. TO STA.			SY		EA			
			P	F	P	F		
75+45.00 to 75+45.00	RT				1			
76+35.00 to 76+35.00	LT				1			
78+00.00 to 78+00.00	LT/RT				2			
82+45.00 to 82+45.00	LT/RT				2			
84+60.00 to 84+60.00	RT				1			
86+17.00 to 86+17.00	LT/RT				2			
90+45.00 to 90+45.00	RT				1			
91+70.00 to 91+70.00	RT				1			
92+58.00 to 92+58.00	RT				1			
94+80.00 to 94+80.00	LT/RT				2			
97+12.00 to 97+12.01	RT				1			
97+20.00 to 97+20.00	LT				1			
424+98.00 to 424+98.00	LT				1			
425+17.00 to 425+17.00	RT				1			
429+05.00 to 429+05.00	LT/RT				2			
431+59.00 to 431+59.00	LT/RT				2			
433+00.00 to 433+00.00	RT				1			
433+35.00 to 433+35.00	LT				1			
434+85.00 to 434+85.00	LT				1			
438+22.00 to 438+22.00	LT/RT				2			
440+00.00 to 440+00.00	LT/RT				2			
444+00.00 to 444+00.00	LT/RT				2			
446+25.00 to 446+25.00	LT				1			
446+45.00 to 446+45.00	RT				1			
448+90.00 to 448+90.00	RT				1			
449+50.00 to 449+50.00	LT				1			
452+00.00 to 452+00.00	LT				1			
452+22.00 to 452+22.00	RT				1			
453+52.00 to 453+52.00	LT/RT				2			
456+97.00 to 456+97.00	LT/RT				2			
460+90.00 to 460+90.00	RT				1			
461+50.00 to 461+50.00	LT				1			
463+10.00 to 463+10.00	LT				1			
463+19.00 to 463+19.00	RT				1			
468+55.00 to 468+55.00	RT				1			
468+58.00 to 468+58.00	LT				1			
470+10.00 to 470+10.00	LT				1			
471+15.00 to 471+15.00	LT/RT				2			
474+20.00 to 474+20.00	RT				1			
477+07.00 to 477+07.00	LT/RT				2			
479+20.00 to 479+20.00	RT				1			
480+00.00 to 480+00.00	LT				1			
SUB-TOTAL :								

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

NICHOLAS A. GROSSO, P.E.
P.E. LICENSE NUMBER 71591
CHIPOLA ENGINEERING GROUP, INC.
1695 METROPOLITAN CIRCLE, SUITE 2
TALLAHASSEE, FLORIDA 32308

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

SUMMARY OF QUANTITIES

SHEET NO.
SQ-3

SUMMARY OF LITTER REMOVAL AND MOWING

DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL 107-1			MOWING 107-2			DESIGN NOTES	CONSTRUCTION REMARKS
		CYCLES	AREA AC/CYCLE	AREA TOTAL	CYCLES	AREA AC/CYCLE	AREA TOTAL		
1,000	30	33	3.32		33	1.88			
	TOTAL		P		TOTAL	P			
			F			F			

LITTER REMOVAL AND MOWING NOTES:
1. CYCLES FOR CONSTRUCTION ONLY (180 DAYS) AND TWO YEAR ESTABLISHMENT PERIOD (730 DAYS).
2. THE ABOVE QUANTITIES INCLUDE ONE LITTER REMOVAL AND MOWING DURING THE FIVE DAY PERIOD PRECEDING THE FINAL ACCEPTANCE DATE. THE ENGINEER MAY WAIVE THE REQUIREMENT FOR THIS
3. SEE MAINTENANCE AREA LIMITS SHEETS FOR LOCATIONS.

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION STA. TO STA.	SIDE	AREA ID	ARTIFICIAL COVERINGS 0104 1 SY P	ARTIFICIAL COVERINGS 0104 1 SY F	DESIGN NOTES	CONSTRUCTION REMARKS
41+25	MEDIAN	B-1	1.0		BIOBARRIER ROOT BARRIER FABRIC	
41+69	MEDIAN	B-2	1.0			
42+12	MEDIAN	B-3	1.0			
42+51	MEDIAN	B-4	1.0			
59+36	MEDIAN	B-5	1.0			
59+66	MEDIAN	B-6	1.0			
60+27	MEDIAN	B-7	1.0			
60+58	MEDIAN	B-8	1.0			
60+87	MEDIAN	B-9	1.0			
61+17	MEDIAN	B-10	1.0			
64+02	MEDIAN	B-11	1.0			
65+33	MEDIAN	B-12	1.0			
65+59	MEDIAN	B-13	1.0			
65+88	MEDIAN	B-14	1.0			
441+37	MEDIAN	B-15	1.0			
441+70	MEDIAN	B-16	1.0			
452+97	MEDIAN	B-17	1.0			
453+31	MEDIAN	B-18	1.0			
477+57	MEDIAN	B-19	1.0			
		SUB TOTAL				
		TOTAL				

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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LA# 1628
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Tampa, FL 33607-1462

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

SUMMARY OF QUANTITIES

SHEET NO.
SQ-4

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	AREA ID	PERFORMANCE TURF 570-1-2 SY P	PERFORMANCE TURF 570-1-2 SY F	DESIGN NOTES	CONSTRUCTION REMARKS
327+07 - 327+49	S-1	39			
327+71 - 328+69	S-2	71			
330+69 - 334+69	S-3	415			
15+90 - 16+47	S-4	62			
16+53 - 18+47	S-5	290			
19+47 - 20+86	S-6	186			
21+80 - 22+81	S-7	136			
25+58 - 26+58	S-8	127			
33+63 - 34+55	S-9	116			
35+10 - 36+11	S-10	119			
36+88 - 37+52	S-11	80			
38+17 - 38+88	S-12	86			
39+70 - 43+22	S-13	458			
43+46 - 44+70	S-14	182			
45+69 - 48+25	S-15	291			
54+92 - 56+75	S-16	218			
58+00 - 62+15	S-17	537		SOD TO BE ZOYSIA JAPONICA 'EMPIRE', SOD. SEE LANDSCAPE LEGEND.	
62+94 - 66+94	S-18	504			
70+70 - 75+57	S-19	698			
76+29 - 77+34	S-20	158			
79+00 - 80+09	S-21	107			
80+13 - 81+90	S-22	246			
82+42 - 83+10	S-23	75			
84+51 - 85+22	S-24	75			
85+71 - 88+51	S-25	426			
89+22 - 91+76	S-26	371			
94+46 - 95+34	S-27	115			
423+00 - 426+26	S-28	450			
433+20 - 435+59	S-29	206			
441+74 - 442+72	S-30	150			
447+26 - 451+12	S-31	552			
451+88 - 453+36	S-32	233			
458+47 - 460+58	S-33	281			
467+73 - 468+60	S-34	127			
468+69 - 470+22	S-35	209			
470+71 - 471+69	S-36	82			
472+35 - 473+06	S-37	64			
474+20 - 474+52	S-38	21			
475+25 - 476+00	S-39	74			
476+46 - 478+58	S-40	310			
479+31 - 480+00	S-41	85			
481+00 - 481+68	S-42	82			
SUB-TOTAL:					
TOTAL:		9,112			

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

James S. Gilman, RLA
LA# 1628
AECOM Technical Services, Inc
7650 West Courtney Campbell Causeway
Tampa, FL 33607-1462

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

SUMMARY OF QUANTITIES

SHEET NO. SQ-5

SUMMARY OF EARTHWORK

PAY ITEM NO.	AREA ID	PAY ITEM DESCRIPTION	CY P	CY F	DESIGN NOTES	CONSTRUCTION REMARKS
120-2-2	T-1	SR30 HARBOR BLVD EB (MEDIAN)	2.14		STA 327+06 - 327+49	SOD
	T-2	SR30 HARBOR BLVD EB (MEDIAN)	3.97		STA 327+71 - 328+69	SOD
	T-3	SR30 HARBOR BLVD EB (MEDIAN)	0.80		STA 329+18 - 329+34	CRAPE MYRTLE
	T-4	SR30 HARBOR BLVD EB (MEDIAN)	1.21		STA 329+51 - 329+67	CRAPE MYRTLE
	T-5	SR30 HARBOR BLVD EB (MEDIAN)	1.08		STA 329+88 - 330+03	CRAPE MYRTLE
	T-6	SR30 HARBOR BLVD EB (MEDIAN)	23.04		STA 330+69 - 334+69	SOD
	T-7	SR30 HARBOR BLVD EB (MEDIAN)	13.78		STA 331+64 - 332+26	OAK
	T-8	SR30 HARBOR BLVD EB (MEDIAN)	3.44		STA 15+90 - 16+47	SOD
	T-9	SR30 HARBOR BLVD EB (MEDIAN)	16.11		STA 16+53 - 18+48	SOD
	T-10	SR30 HARBOR BLVD EB (MEDIAN)	10.35		STA 19+47 - 20+86	SOD & CRAPE MYRTLE
	T-11	SR30 HARBOR BLVD EB (MEDIAN)	7.41		STA 21+85 - 23+80	SOD & CRAPE MYRTLE
	T-12	SR30 HARBOR BLVD EB (MEDIAN)	1.32		STA 24+09 - 24+24	CRAPE MYRTLE
	T-13	SR30 HARBOR BLVD EB (MEDIAN)	1.21		STA 24+47 - 24+62	CRAPE MYRTLE
	T-14	SR30 HARBOR BLVD EB (MEDIAN)	7.08		STA 25+58 - 26+58	SOD & CRAPE MYRTLE
	T-15	SR30 HARBOR BLVD EB (MEDIAN)	6.42		STA 33+63 - 34+64	SOD
	T-16	SR30 HARBOR BLVD EB (MEDIAN)	6.59		STA 35+09 - 36+11	SOD & CRAPE MYRTLE
	T-17	SR30 HARBOR BLVD EB (MEDIAN)	4.42		STA 36+88 - 37+55	SOD & CRAPE MYRTLE
	T-18	SR30 HARBOR BLVD EB (MEDIAN)	0.81		STA 37+38 - 37+93	CRAPE MYRTLE
	T-19	SR30 HARBOR BLVD EB (MEDIAN)	4.77		STA 38+14 - 38+88	SOD
	T-20	SR30 HARBOR BLVD EB (MEDIAN)	25.43		STA 39+71 - 43+22	SOD & CRAPE MYRTLE
	T-21	SR30 HARBOR BLVD EB (MEDIAN)	32.22		STA 41+15 - 42+60	OAK
	T-22	SR30 HARBOR BLVD EB (MEDIAN)	12.10		STA 43+40 - 44+70	SOD & CRAPE MYRTLE
	T-23	SR30 HARBOR BLVD EB (MEDIAN)	16.15		STA 45+69 - 48+25	SOD & CRAPE MYRTLE
	T-24	SR30 HARBOR BLVD EB (MEDIAN)	0.95		STA 49+46 - 49+61	CRAPE MYRTLE
	T-25	SR30 HARBOR BLVD EB (MEDIAN)	0.86		STA 49+64 - 49+79	CRAPE MYRTLE
	T-26	SR30 HARBOR BLVD EB (MEDIAN)	0.83		STA 50+34 - 50+49	CRAPE MYRTLE
	T-27	SR30 HARBOR BLVD EB (MEDIAN)	1.09		STA 50+80 - 50+95	CRAPE MYRTLE
	T-28	SR30 HARBOR BLVD EB (MEDIAN)	1.09		STA 52+18 - 52+33	CRAPE MYRTLE
	T-29	SR30 HARBOR BLVD EB (MEDIAN)	0.96		STA 52+38 - 52+53	CRAPE MYRTLE
	T-30	SR30 HARBOR BLVD EB (MEDIAN)	0.86		STA 52+61 - 52+76	CRAPE MYRTLE
	T-31	SR30 HARBOR BLVD EB (MEDIAN)	0.95		STA 53+52 - 53+67	CRAPE MYRTLE
	T-32	SR30 HARBOR BLVD EB (MEDIAN)	1.09		STA 53+73 - 53+88	CRAPE MYRTLE
	T-33	SR30 HARBOR BLVD EB (MEDIAN)	1.15		STA 55+07 - 55+22	CRAPE MYRTLE
	T-34	SR30 HARBOR BLVD EB (MEDIAN)	29.83		STA 58+00 - 62+15	SOD & CRAPE MYRTLE
	T-35	SR30 HARBOR BLVD EB (MEDIAN)	45.78		STA 59+21 - 61+27	OAK
	T-36	SR30 HARBOR BLVD EB (MEDIAN)	28.01		STA 62+94 - 66+92	SOD & CRAPE MYRTLE
	T-37	SR30 HARBOR BLVD EB (MEDIAN)	11.33		STA 63+92 - 64+43	OAK
	T-38	SR30 HARBOR BLVD EB (MEDIAN)	10.89		STA 65+49 - 65+98	OAK
	T-39	SR30 HARBOR BLVD EB (MEDIAN)	1.12		STA 68+54 - 68+68	SOD & CRAPE MYRTLE
	T-40	SR30 HARBOR BLVD EB (MEDIAN)	1.36		STA 68+82 - 68+97	SOD & CRAPE MYRTLE
	T-41	SR30 HARBOR BLVD EB (MEDIAN)	1.36		STA 69+13 - 69+28	SOD & CRAPE MYRTLE
	T-42	SR30 HARBOR BLVD EB (MEDIAN)	1.16		STA 69+36 - 69+51	SOD & CRAPE MYRTLE
	T-43	SR30 HARBOR BLVD EB (MEDIAN)	38.80		STA 70+70 - 75+56	SOD & CRAPE MYRTLE
	T-44	SR30 HARBOR BLVD EB (MEDIAN)	45.33		STA 71+98 - 74+02	OAK
	T-45	SR30 HARBOR BLVD EB (MEDIAN)	8.75		STA 76+29 - 77+39	SOD

SUMMARY OF EARTHWORK

PAY ITEM NO.	AREA ID	PAY ITEM DESCRIPTION	CY P	CY F	DESIGN NOTES	CONSTRUCTION REMARKS
120-2-2	T-46	SR30 HARBOR BLVD EB (MEDIAN)	5.95		STA 78+97 - 80+09	SOD
	T-47	SR30 HARBOR BLVD EB (MEDIAN)	15.83		STA 80+12 - 81+90	SOD & CRAPE MYRTLE
	T-48	SR30 HARBOR BLVD EB (MEDIAN)	4.15		STA 82+42 - 83+10	SOD
	T-49	SR30 HARBOR BLVD EB (MEDIAN)	4.17		STA 84+51 - 85+22	SOD
	T-50	SR30 HARBOR BLVD EB (MEDIAN)	25.02		STA 85+71 - 88+51	SOD & CRAPE MYRTLE
	T-51	SR30 HARBOR BLVD EB (MEDIAN)	22.00		STA 86+59 - 87+58	OAK
	T-52	SR30 HARBOR BLVD EB (MEDIAN)	21.52		STA 89+22 - 91+76	SOD & CRAPE MYRTLE
	T-53	SR30 HARBOR BLVD EB (MEDIAN)	6.52		STA 94+43 - 95+34	SOD
	T-54	SR30 HARBOR BLVD EB (MEDIAN)	1.22		STA 95+73 - 95+88	CRAPE MYRTLE
	T-55	SR30 HARBOR BLVD EB (MEDIAN)	1.20		STA 96+16 - 96+31	CRAPE MYRTLE
	T-56	SR30 HARBOR BLVD EB (MEDIAN)	27.05		STA 422+97 - 426+26	SOD & CRAPE MYRTLE
	T-57	SR30 HARBOR BLVD EB (MEDIAN)	26.67		STA 423+78 - 424+98	OAK
	T-58	SR30 HARBOR BLVD EB (MEDIAN)	11.46		STA 433+20 - 435+60	SOD
	T-59	SR30 HARBOR BLVD EB (MEDIAN)	1.22		STA 436+28 - 436+43	CRAPE MYRTLE
	T-60	SR30 HARBOR BLVD EB (MEDIAN)	3.41		STA 438+03 - 438+48	CRAPE MYRTLE
	T-61	SR30 HARBOR BLVD EB (MEDIAN)	1.21		STA 439+57 - 469+72	CRAPE MYRTLE
	T-62	SR30 HARBOR BLVD EB (MEDIAN)	0.95		STA 439+79 - 439+94	CRAPE MYRTLE
	T-63	SR30 HARBOR BLVD EB (MEDIAN)	12.44		STA 441+24 - 441+80	OAK
	T-64	SR30 HARBOR BLVD EB (MEDIAN)	8.31		STA 441+70 - 442+72	SOD
	T-65	SR30 HARBOR BLVD EB (MEDIAN)	2.90		STA 443+46 - 443+87	CRAPE MYRTLE
	T-66	SR30 HARBOR BLVD EB (MEDIAN)	1.98		STA 446+14 - 446+39	CRAPE MYRTLE
	T-67	SR30 HARBOR BLVD EB (MEDIAN)	34.91		STA 447+25 - 451+12	SOD & CRAPE MYRTLE
	T-68	SR30 HARBOR BLVD EB (MEDIAN)	8.17		STA 451+88 - 452+85	SOD & CRAPE MYRTLE
	T-69	SR30 HARBOR BLVD EB (MEDIAN)	12.22		STA 452+85 - 453+40	OAK
	T-70	SR30 HARBOR BLVD EB (MEDIAN)	1.37		STA 453+99 - 454+14	CRAPE MYRTLE
	T-71	SR30 HARBOR BLVD EB (MEDIAN)	1.37		STA 454+25 - 454+40	CRAPE MYRTLE
	T-72	SR30 HARBOR BLVD EB (MEDIAN)	1.12		STA 455+53 - 455+68	CRAPE MYRTLE
	T-73	SR30 HARBOR BLVD EB (MEDIAN)	0.97		STA 455+76 - 455+90	CRAPE MYRTLE
	T-74	SR30 HARBOR BLVD EB (MEDIAN)	16.86		STA 458+48 - 460+64	SOD & CRAPE MYRTLE
	T-75	SR30 HARBOR BLVD EB (MEDIAN)	1.17		STA 461+70 - 461+85	CRAPE MYRTLE
	T-76	SR30 HARBOR BLVD EB (MEDIAN)	1.17		STA 462+00 - 462+15	CRAPE MYRTLE
	T-77	SR30 HARBOR BLVD EB (MEDIAN)	1.12		STA 462+21 - 462+36	CRAPE MYRTLE
	T-78	SR30 HARBOR BLVD EB (MEDIAN)	1.12		STA 462+51 - 462+66	CRAPE MYRTLE
	T-79	SR30 HARBOR BLVD EB (MEDIAN)	0.66		STA 464+30 - 464+45	CRAPE MYRTLE
	T-80	SR30 HARBOR BLVD EB (MEDIAN)	7.03		STA 467+73 - 468+60	SOD
	T-81	SR30 HARBOR BLVD EB (MEDIAN)	12.12		STA 468+69 - 470+22	SOD & CRAPE MYRTLE
	T-82	SR30 HARBOR BLVD EB (MEDIAN)	4.54		STA 470+72 - 471+70	SOD
	T-83	SR30 HARBOR BLVD EB (MEDIAN)	3.54		STA 472+36 - 473+06	SOD
	T-84	SR30 HARBOR BLVD EB (MEDIAN)	1.15		STA 474+20 - 474+52	SOD
	T-85	SR30 HARBOR BLVD EB (MEDIAN)	4.12		STA 475+25 - 476+00	SOD
	T-86	SR30 HARBOR BLVD EB (MEDIAN)	17.65		STA 476+51 - 478+60	SOD & CRAPE MYRTLE
	T-87	SR30 HARBOR BLVD EB (MEDIAN)	4.44		STA 447+47 - 447+67	OAK
	T-88	SR30 HARBOR BLVD EB (MEDIAN)	4.71		STA 479+32 - 480+04	SOD & CRAPE MYRTLE
	T-89	SR30 HARBOR BLVD EB (MEDIAN)	123.00		STA 480+97 - 481+68	SOD
	SUB TOTAL		745.2			
	FILL ADJUSTEMENT (20%) (744.7X0.20)		149.05			
	SUB TOTAL		894.27			
	TRUCK ADJUSTMENT (25%) (893.6X0.25)		223.57			
	TOTAL		1117.84			

PAY ITEM NOTE: SOIL DEPTHS AT SOD AND CRAPE MYRTLE AREAS IS 2". SOIL DEPTH AT OAK AREAS IS MAX. 9". SEE DETAILS AND PLANTING AREA PREPARATION NOTES.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

James S. Gilman, RLA
LA# 1628
AECOM Technical Services, Inc
7650 West Courtney Campbell Causeway
Tampa, FL 33607-1462

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 30	OKALOOSA	445907-1-52-01

SUMMARY OF QUANTITIES

SHEET NO. SQ-6



Destin Harbor Water Quality Update

Harbor CRA Meeting

October 14, 2020

Destin Harbor

Approximately 240 acres

Partially Closed System

Stormwater Runoff from Commercial and Residential development

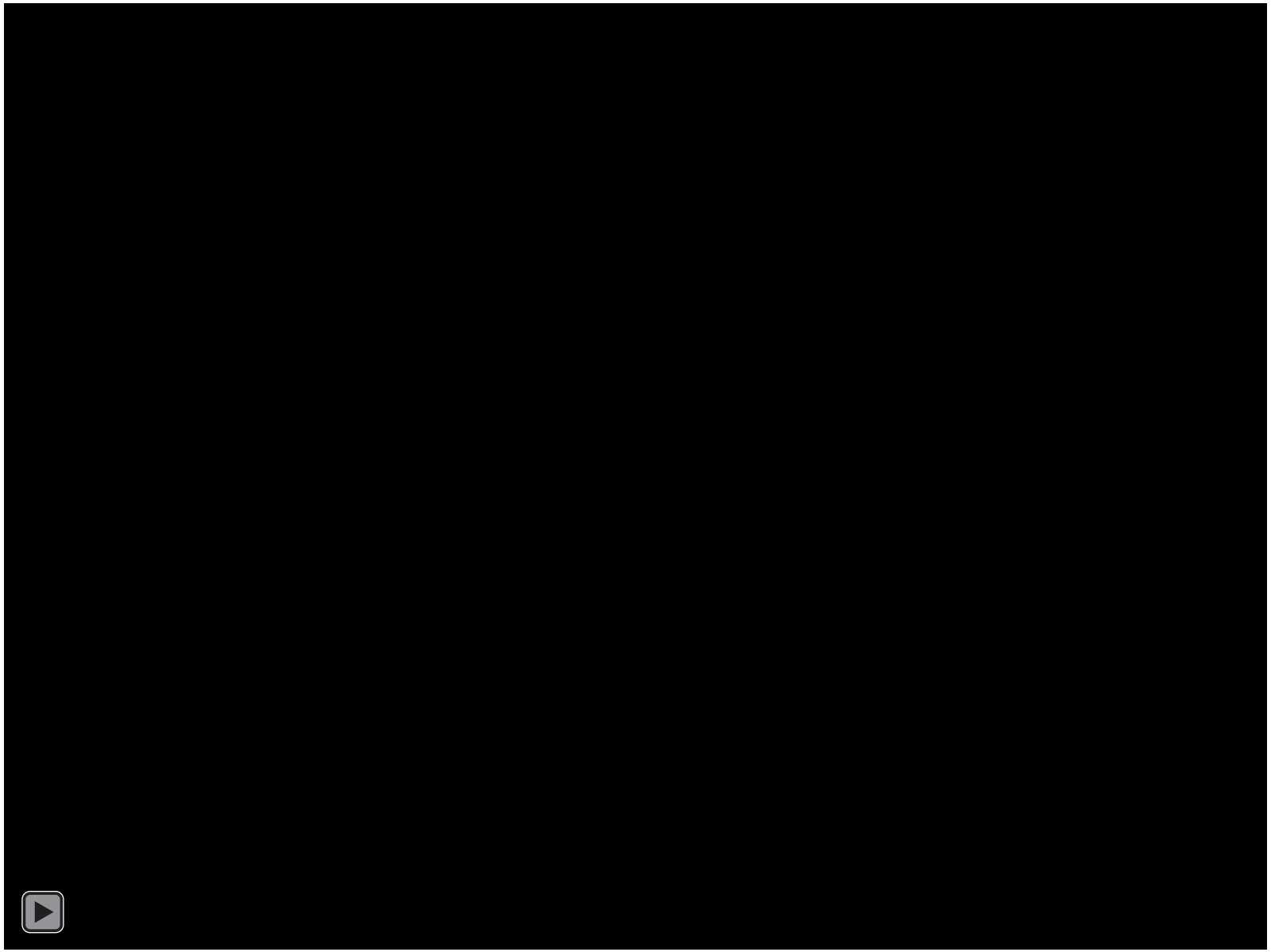
“Fresh water” input by tidal influences and Harbor Pump

Harbor Pump

- Operating since 1992
- 1600ft, 84” diameter pipe
- 200-HP motor and pump assembly
- Rated at 48,000 gallons/minute
- Operates daily from March 1 through October 31



Intake Inspection & Cleaning August 7, 2020 by Public Works Staff

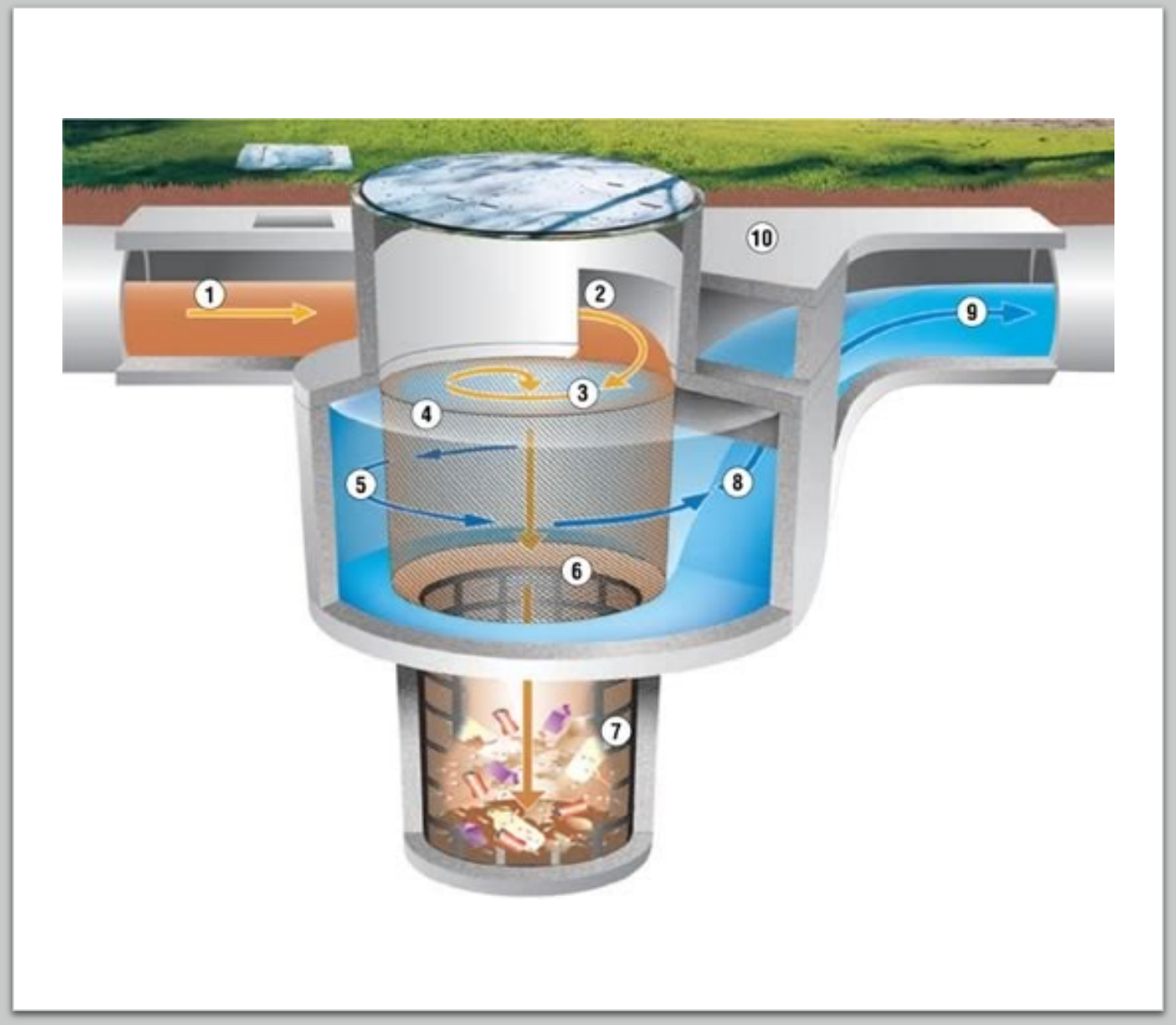


Water Quality Issues in Closed Basins

- Dissolved Oxygen
- Nitrogen
- Phosphorous
- Bacteria

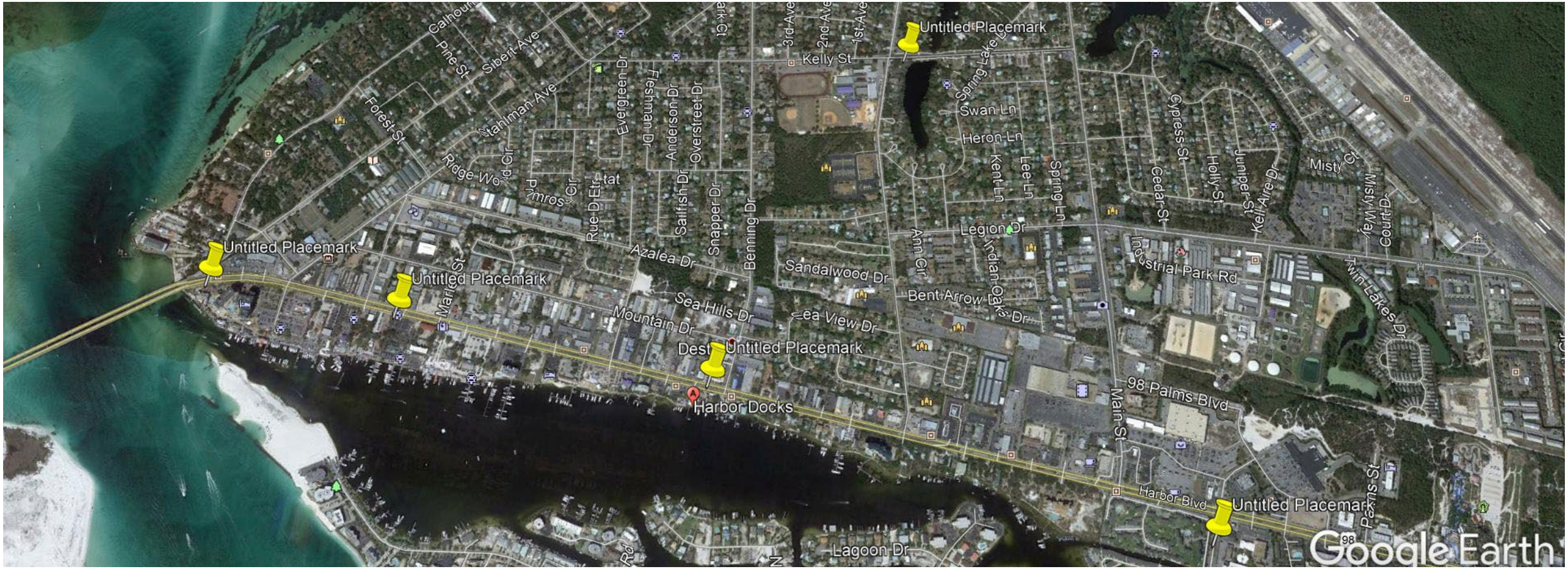
Water Quality Mitigation

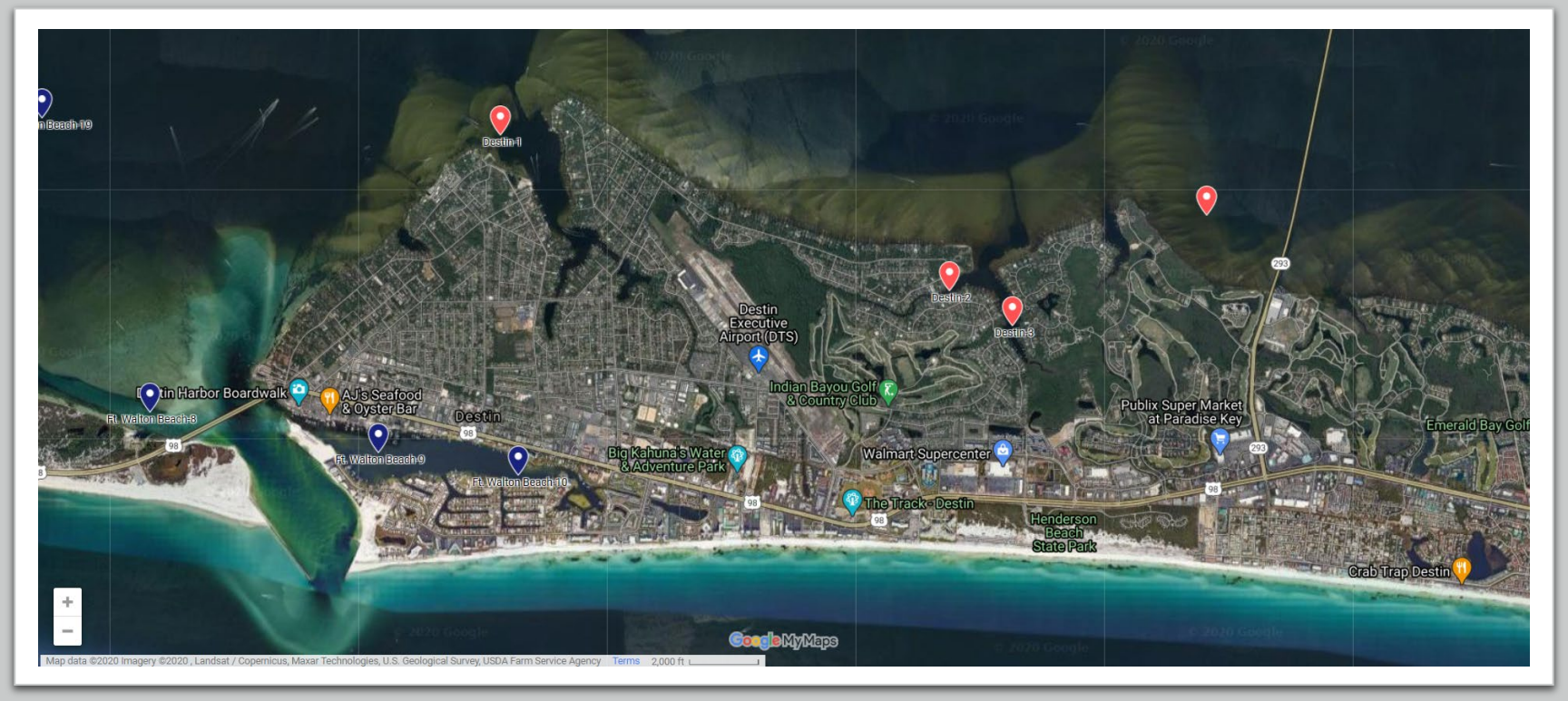
- Harbor Pump introduces 13.5 – 16.2 million gallons of Gulf Water nightly
- Four Stormwater Quality Units in Harbor Blvd
- Collects settleable solids and floatable solids
- Cleaned by City contractor bi-annually



Water Quality BMP Locations

- BMP = Best Management Practice
- CDS & BaySaver Devices

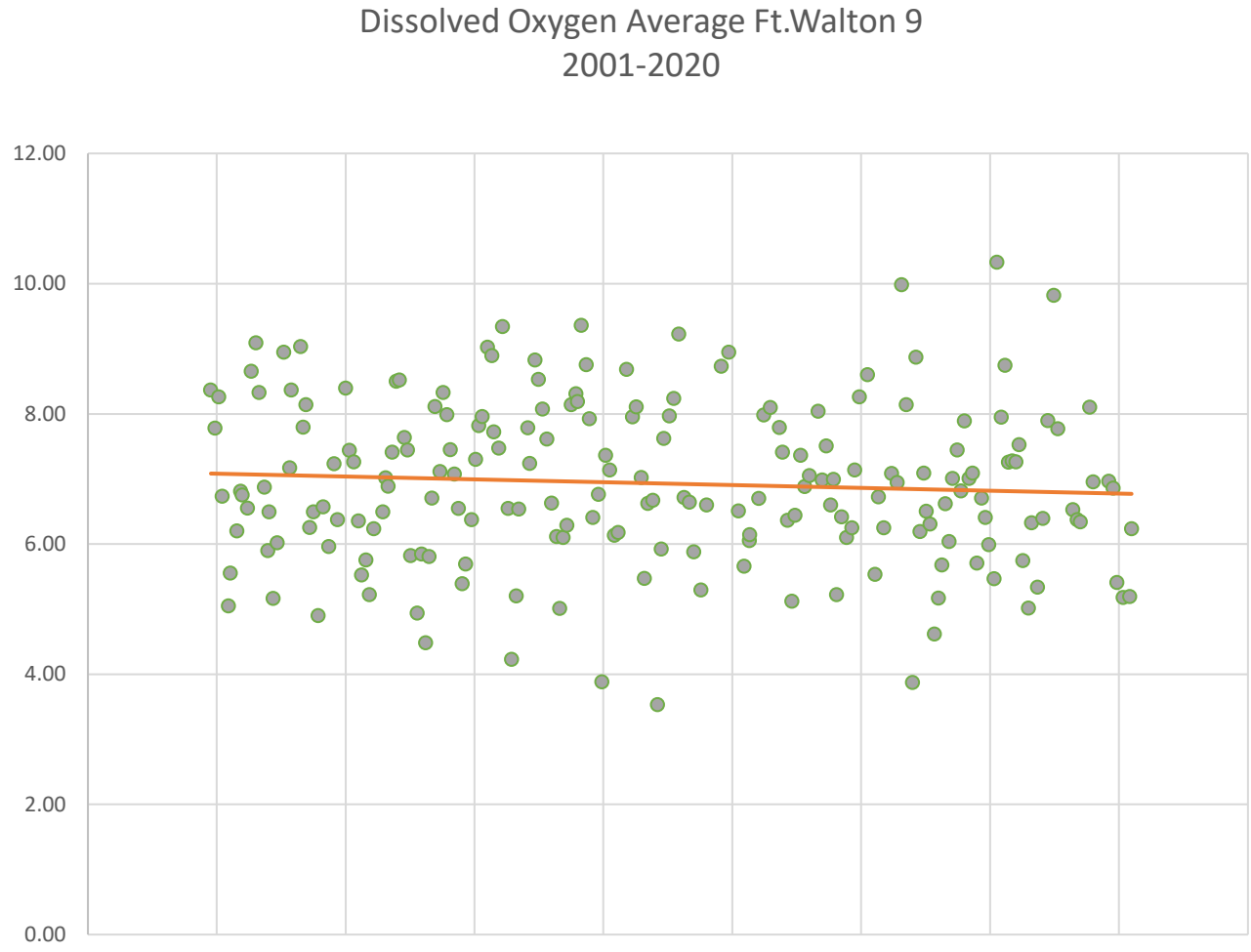




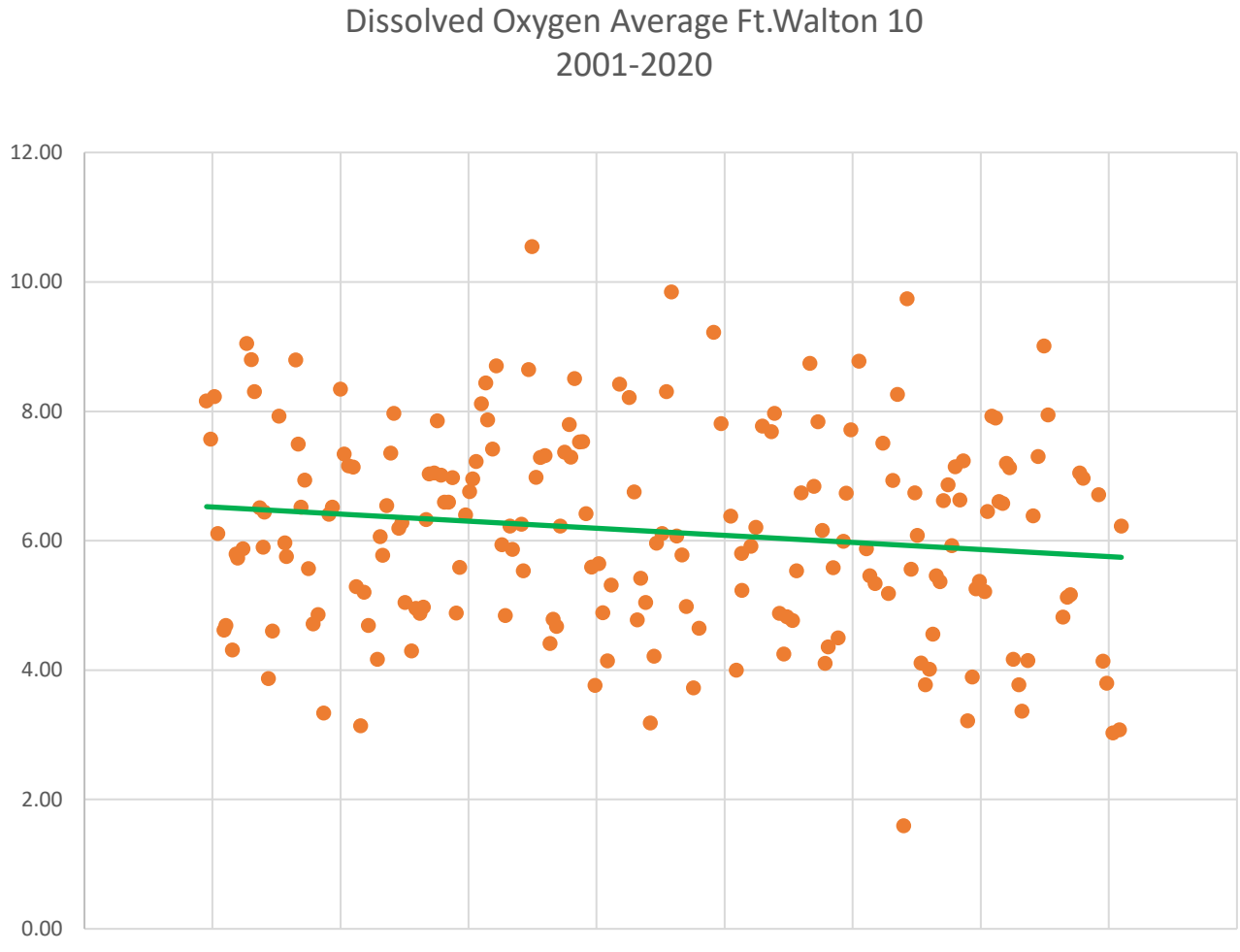
CBA Water Quality Monitoring Stations

- Ft. Walton Beach – 9
- Ft. Walton Beach – 10
- Destin – 4

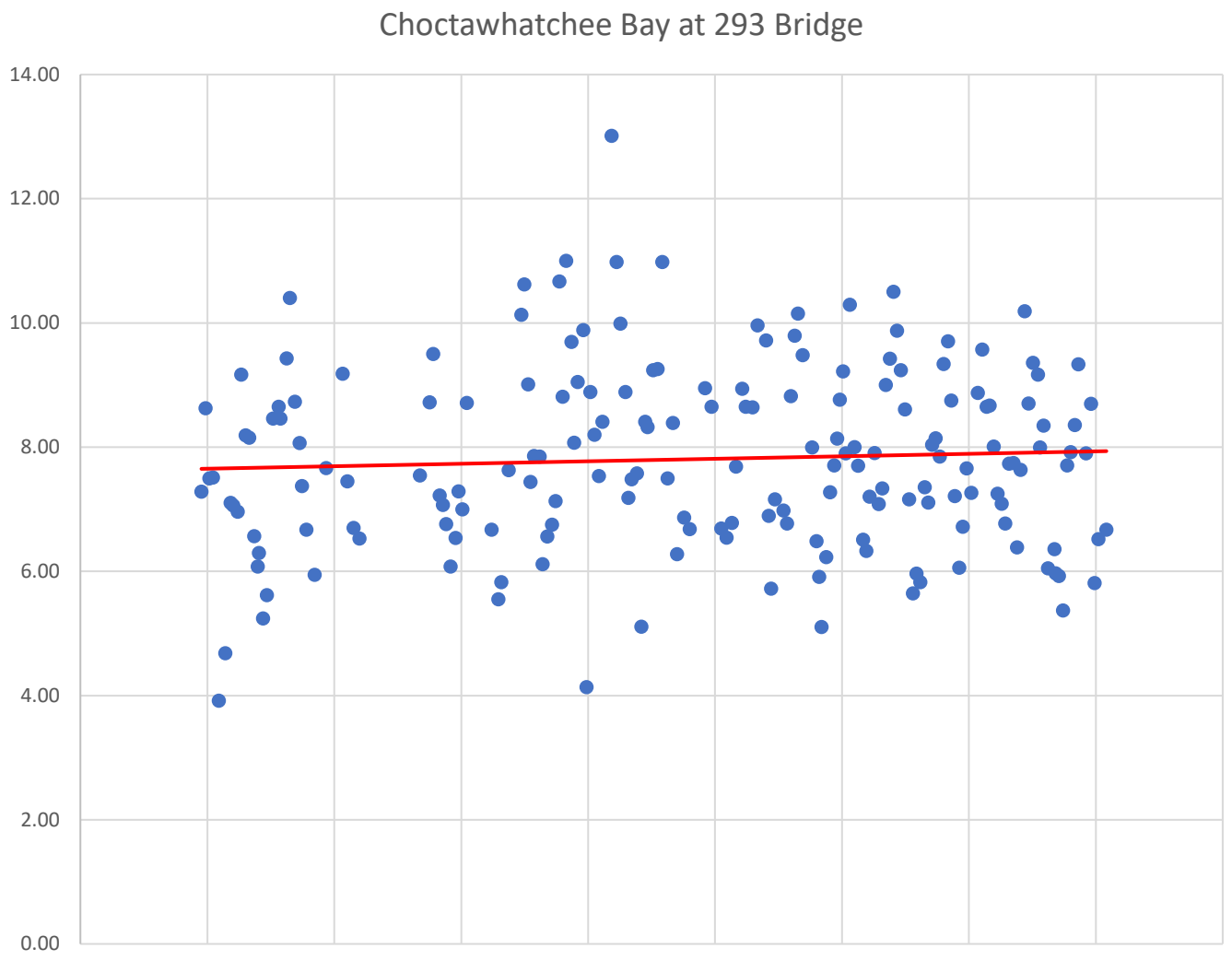
Dissolved Oxygen Levels Station FT.W-9



Dissolved Oxygen Levels Station FT.W-9



Dissolved Oxygen Levels Station Destin-4





Questions?

Michael G. Burgess MS, PH, CSM, CFM

Director of Public Works and Emergency Management

City of Destin FL

mburgess@cityofdestin.com

ITEM # 2020-2877

CITY OF DESTIN – COMMUNITY DEVELOPMENT

AGENDA ITEM

MEETING DATE: October 14, 2020
BOARD/COMMITTEE: Harbor Community Redevelopment Agency Advisory Committee
TYPE OF AGENDA ITEM: Action Item

TO: Harbor Community Redevelopment Agency Advisory Committee

THRU: Kyle Bauman, City Attorney
Louis Zunguze, Community Development Director

FROM: Traci Goodhart
Daniel Butler, City Planner

DATE: October 8, 2020

SUBJECT: FY21 Work Plan

I. BACKGROUND: The Harbor CRA Advisory Committee is tasked with reviewing and updating the Harbor CRA Work Plan items annually to ensure items continue to meet the requirements outlined in **Policy 1-1.3.4 – Harbor CRA Redevelopment, Infrastructure, and Design Enhancements.**

II. DISCUSSION:

Below are the selected FY2021 Work Plan items for the Harbor CRA Advisory Committee:

Harbor Parking & Transportation Improvements

Land Development Update

Improved Harbor Regulations

Harbor Capacity Study

Harbor Stormwater Mitigation Plan

City Stormwater Management Plan Update

Harbor Median Landscape Plan

Feral Cat Population

Update Harbor CRA Master Plan

III. RECOMMENDATIONS: There are current and future City projects that support the goals and objectives of the Harbor CRA Master Plan & the selected FY2021 Work Plan items. City Staff will continue to update the Harbor CRA of such City projects and provide opportunity for recommendations to City Council.

Staff recommends carrying over the FY2020 Work Plan items to FY2021.

IV. RECOMMENDED MOTION: I motion that the Harbor CRA Advisory Committee carry over the newly established FY2020 Plan Items to FY2021.

Attachments:
None