District One
Priority Project Information Packet

Please fill out this application completely. Please ensure all attachments are LEGIBLE Applications containing insufficient information will not be reviewed by the FDOT.

Name of Applying Agency: Town of Longboat Key

Project Name: SR 789/Gulf of Mexico Drive at Broadway Roundabout (w/ Resiliency)

Project Category:

Congestion Management ☒ TRIP ☐ CIGP ☐

Transportation Alternative ☐ Transit/Modal ☐

For more information on State Grant Programs (CIGP, SCOP, SCRAP, TRIP) please click here.

Is applicant LAP certified? Yes ☐ No ☒

Is project on State Highway System? Yes ☒ No ☐
If the project is off the state system and the applicant is LAP certified the project will be programmed as a LAP project.

Is the roadway on the Federal Aid Eligible System? Yes ☒ No ☐
If yes, provide Federal Aid roadway number: 13080000
If no, give local jurisdiction: N/A
http://www.fdot.gov/statistics/fedaid/

Detailed Project Limits/Location:
Describe begin and end points of project, EX., from ABC Rd. to XYZ Ave. Limits **run south to north or west to east.** Include jurisdiction (city/county), project length, attach a labeled project, map.
Within the jurisdictional limits of the Town of Longboat Key Manatee County; beginning at the intersection of Broadway Street with Gulf of Mexico Drive (SR 789) and per FDOT roadway design requirements extending both north and south of the intersection; north from the intersection by approximately 800-ft. and south from the intersection by approximately 900-ft. to create a standard crown roadway in both directions. Total project length of approximately 1700-ft. or 1/3-mile.

Discuss how this project is consistent with the MPO/TPO Long Range Transportation Plan?
Page Number (attach page from LRTP): Chapter 9, Table 9-1; 2026 Project Priority page 4

Discuss the project in the local jurisdiction's Capital Improvement Plan?
(Attach page from CIP): See attached from Town of Longboat Key CIP

Project Description

Phase(s) requested:

Planning Study ☐ PD&E ☐ PE ☐ ROW ☐ CST ☒ CEI ☒

Project cost estimates by phase (Please include detailed cost estimate and documentation in back-up information):

Phase (PD&E, ROW, PE, CST)	Estimated Total Cost	Funds Requested	Matching Local Funds	Local Fund Source	Type of Match (Cash, in-kind)
CST	**9355724**	**8300000**	**0**	**1055724**	

Total Project Cost: $ 9,335,724

Project Details: Clearly describe the existing conditions and the proposed project and desired improvements in detail. Please provide studies, documentation, etc., completed to-date to support or justify the proposed improvements. Include labeled photos and maps. (Add additional pages if needed):

Project consists of constructing in the 2-lane two way urban collector, a single lane roundabout at the intersection of Gulf of Mexico Drive (SR789) and Broadway Street in the northern end of the ManateeCounty portion of Gulf of Mexico Drive. The project will also include roadway improvements to improve resiliency at along both approaches to include Complete Streets components and elevation improvements. The project intersection provides sole access to a major residential neighborhood, commercial restaurants, and the Town's most popular beach access point. The project will improve pedestrian and bicycle crossing maneuvers, vehicular turning movements, resiliency and roadway aesthetics. See Attachment "A".

Constructability Review

For items 2-9 provide labeled and dated photos (add additional pages if needed)

1. Discuss other projects (ex. drainage, utility, etc.) programmed (local, state or federal) within the limits of this project? The SunTrail shared use path spans the entire length of the island. Also, the Context Sensitive Roadway with Resiliency project. They are part of the 2050 LRTP.

2. Does the applicant have an adopted ADA transition plan? Yes ☐ No ☒

Identify areas within the project limits that will require ADA retrofit. (Include GIS coordinates for stops and labeled photos and/or map.)
N/A See project plans.

3. Is there a rail crossing along the project?
   Yes ☐ No ☒
   What is the Rail MP?
   N/A

4. Are there any transit stops/shelters/amenities within the project limits?
   Yes ☐ No ☒

   How many? Island is serviced by Breeze on Demand

   Stop ID number: N/A
5. Is the project within 10-miles of an airport? Yes ☐ No ☒

6. Coordinate with local transit and discuss improvements needed or requested for bus stops?
   (add additional pages if needed):
   No request for additional amenities.

7. Are turn lanes being added? Yes ☐ No ☒

   If yes, provide traffic counts, length, and location of involved turn lanes.
   N/A

8. Drainage structures:
   - Number of culverts or pipes currently in place: Two

   - Discuss lengths and locations of each culvert along the roadway: Approximately 250 ft. totalfrom the 45 deg. concrete inverts with discharge into adjacent swales for treatment andconveyance to existing storm water system in the FDOT Right of Way.

   - Discuss the disposition of each culvert and inlet. Which culverts are “to remain” and which are to be replaced, upgraded, or extended? Both need to be relocated and amendments may be made to adjacent existing swale and retention / conveyance system.

   - Discuss drainage ditches to be filled in?
     (Discuss limits and quantify fill in cubic yards) See plans.

   - Describe the proposed conveyances system (add additional pages if needed.)
     It is proposed that the existing stormwater swale system on west side of right of way will be amended for treatment of added impervious surface and outfall to existing

swale and detentionsystem to the southern end of project limitsswale on west side, north of the intersection.

- Are there any existing permitted stormwater management facilities/ponds within the project limits? Yes ☐ No ☒

- If yes, provide the location and permit number (add additional pages if needed) N/A

- Discuss proposed stormwater management permits needed for the improvements. See Plans - Additional storage and treatment may need to be provided, based upon added impervious surface elimitations of current Southwest Florida Water Management District and /or FDEP Environmental Resource Permit requirements. In addition, stormwater conveyance amendments and retaining walls may be required due to standard roadway crown requirements by FDOT.

- List specific utilities within project limits and describe any potential conflicts (add additional pages if needed): Water, Waste Water, Electric Power Distribution, Natural Gas, Telephone,Fiber Optic, Cable TV, Stormwater. Other than amendments to existing stormwater, all other known conflicts with any other utilities that exist are addressed in the final design.

- Discuss Bridges within project limits? N/A

- Can bridges accommodate proposed improvements? Yes ☒ No ☐
  If no, what bridge improvements are proposed? (Offset and dimensions of the improvements, add additional pages if needed):
  N/A

9. Has Right-of-way (ROW), easements, or ROW activity already been performed/acquired for the proposed improvements? If yes, please provide documentation

   Yes ☐ No ☒

   If ROW or Easements are needed detail expected area of need (acreage needed, ownership status):
   Design avoids any right-of-way and easement issues.

10. Discuss required permits (ERP, Drainage, Driveway, Right of Way, etc.): See attached permits.

    If none are needed, state the qualified exemption:
    N/A

11. Are there any wetlands within the project limits? Yes ☒ No ☐

If yes, list the type of wetlands, estimated acreage and if mitigation will be required. Please note whether the project is within the geographic service area of any approved mitigation banks. Provide any additional information:
See project plans.

12. Are there any federal or state listed/protected species within the project limits?
    Yes ☐ No ☒

    If yes, list the species and what, if any mitigation or coordination will be necessary: N/A

    If yes, discuss critical habitat within the project limits: N/A

13. Discuss whether any prior reviews or surveys have been completed for historical and archaeological resources (include year, project, results)
    CRAS approved during project review.

14. Are any Recreational, historical properties or resources covered under section 4(f) property within the project limits? Yes ☐ No ☒
    (Provide details) N/A

15. Discuss whether any prior reviews or surveys have been completed for sites/facilities which may have potential contamination involvement with the proposed improvements. This should include a discussion of locations which may directly impact the project location, or be which may be exacerbated by the construction of the proposed improvements. N/A

16. Are lighting improvements requested as part of this project? Yes ☒ No ☐
    Please provide a lighting justification report for the proposed lighting.
    See plans

17. Is a mid-block crossing proposed as part of the project? Yes ☒ No ☐
    If yes, please provide the justification for mid-block crossing.
    All new marked crossings, as no marked crossings exist.

Required Attachments

A. Detailed Project Scope with Project Location Map with sufficient level of detail (Please include typical section of proposed improvements)
B. Project Photos – dated and labeled (this is important!)
C. Detailed Cost Estimates including Pay Items
D. LRTP and Local CIP page

E. Survey/As-builts/ROW documentation/Utility/Drainage information
F. Detailed breakdown of ROW costs included in estimate (if ROW is needed/included in request or estimate)

Applicant Contact Information

Agency Name:
Mailing Address: 600 General Harris Street, Longboat Key, FL 34228
Contact Name and Title: Jennifer Fehrs
Email: jfehrs@longboatkey.org **Phone: 941-316-1988**

Jennifer Fehrs Digitally signed by Jennifer Fehrs Date: 2026.11.20 07:57:40 -05'00'

Signature: _____ Date: _____
Your signature indicates that the information included with this application is accurate.

Maintaining Agency:
Contact Name and Title: Click here to enter text.
Email: Click here to enter text. **Phone:** Click here to enter text.

Signature: _____ Date: _____
Your signature serves as a commitment from your agency to maintain the facility requested.

MPO/TPO:
Contact Name and Title: Click here to enter text.
Email: Click here to enter text. **Phone:** Click here to enter text.

Signature: _____ Date: _____
Your signature confirms the request project is consistent with all MPO/TPO plans and documents, is eligible, and indicates MPO/TPO support for the project.

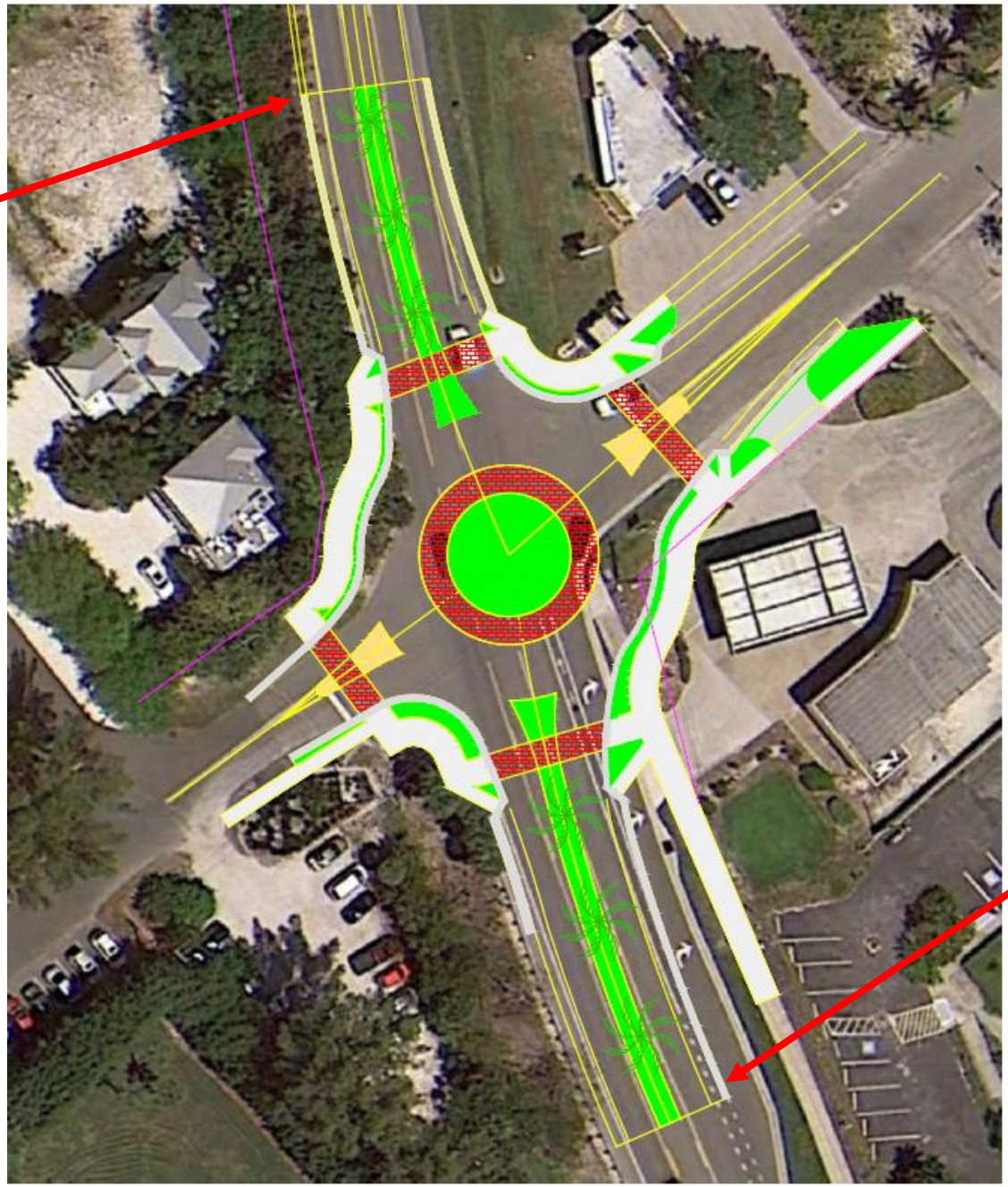
ATTACHMENT A: Attach detailed Project Scope with Project Location Map with sufficient level of detail (Please include typical section of proposed improvements)

Town of Longboat Key
State Road 789 Gulf of Mexico Drive Roundabout at Broadway with Resiliency

Project Scope
Within the jurisdictional limits of the Town of Longboat Key, Manatee County; beginning at the intersection of Broadway Street with Gulf of Mexico Drive (SR 789) and per FDOT roadway design requirements and with resiliency enhancements, extending both north and south of the intersection; north from the intersection by approximately 800-ft. and south from the intersection by approximately 900-ft. to create a standard crown roadway in both directions. Total project length of approximately 1,700-ft. or 1/3-mile. Project will now include Complete streets elements and roadway elevation.

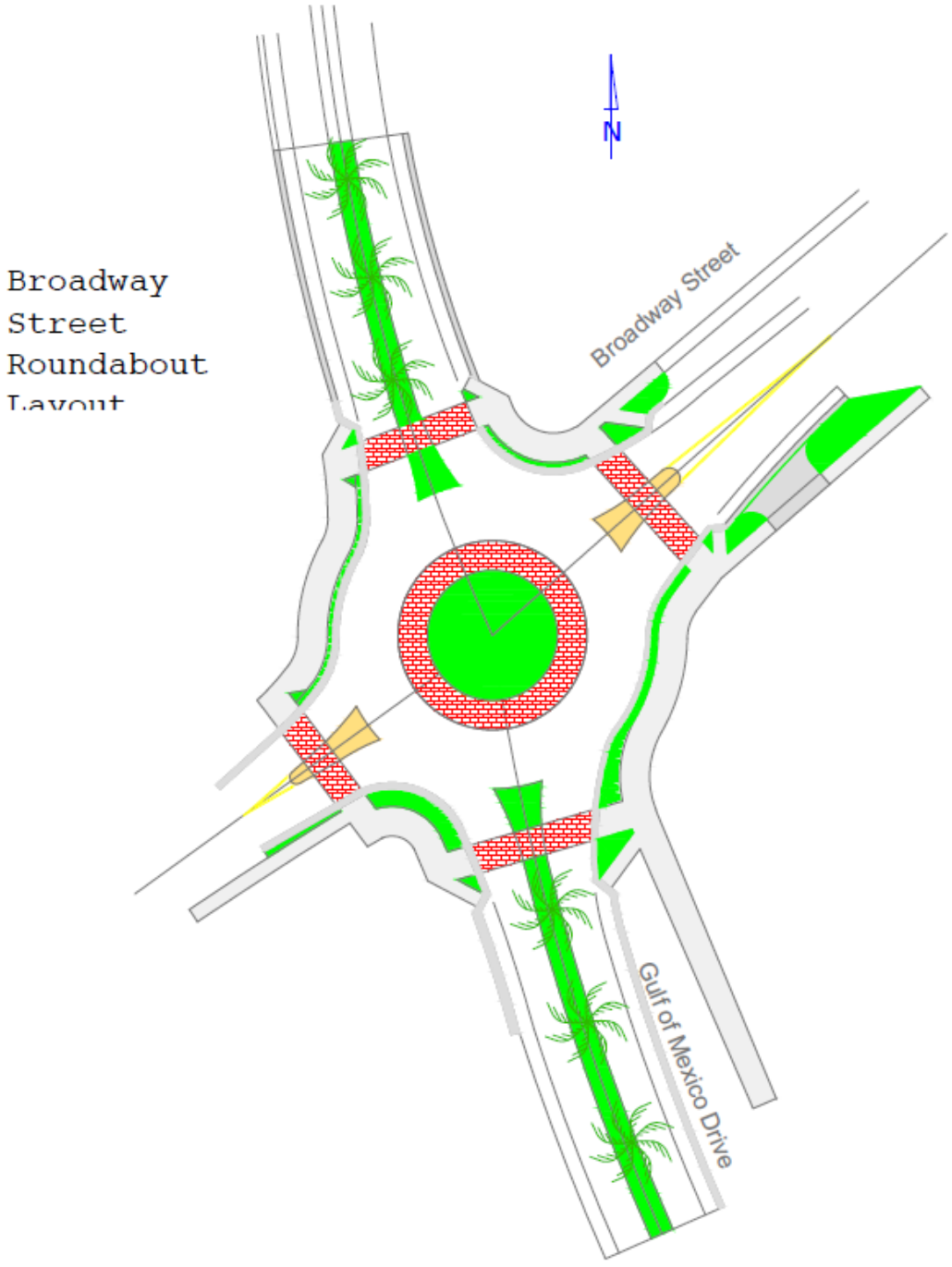
Gulf of Mexico Drive and Broadway Roundabout

Northern Limit of Roundabout 7050 Blk. SR789/GMD. Begin Sta. 718 north to Sta. 725 to south.

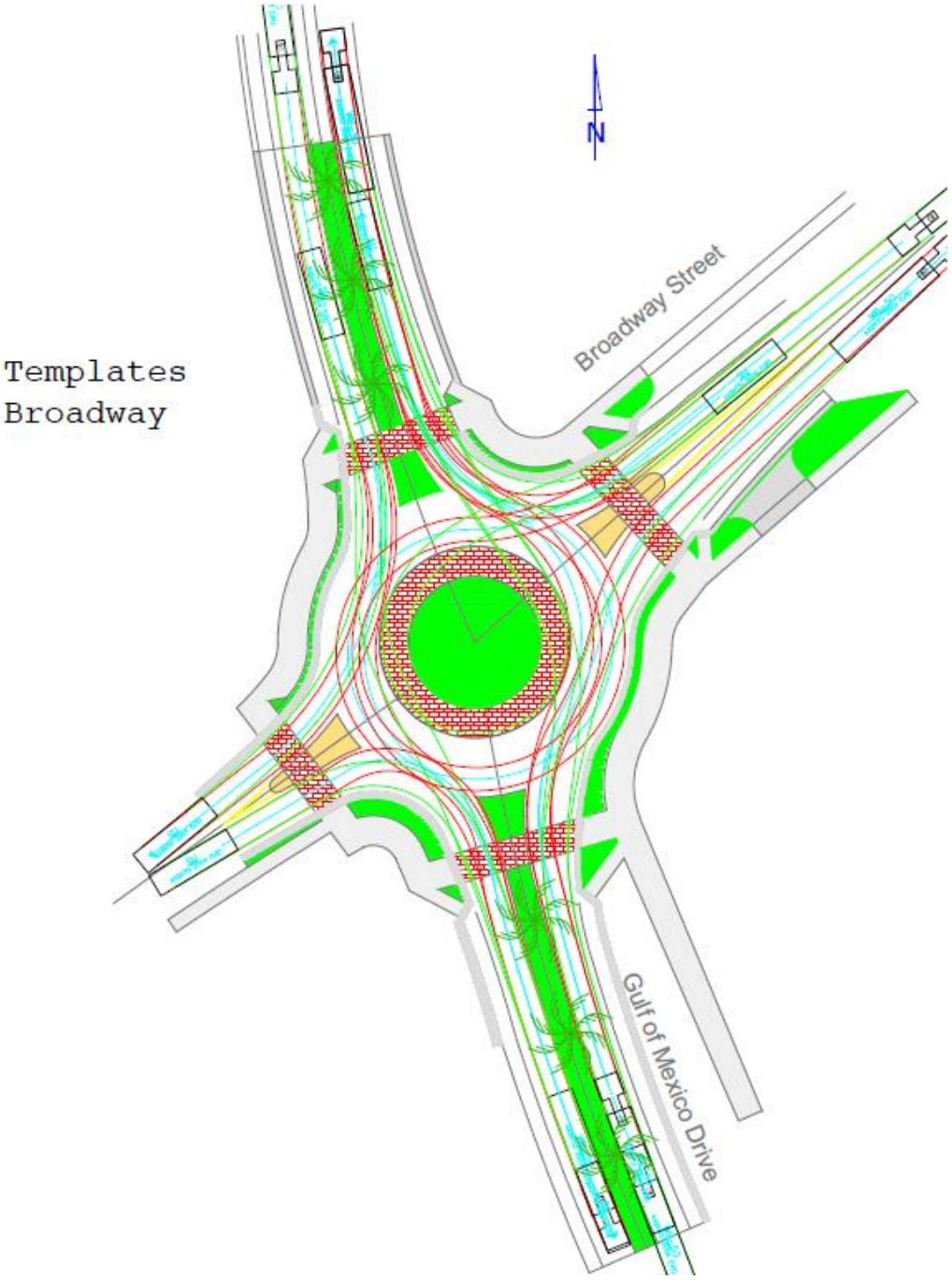


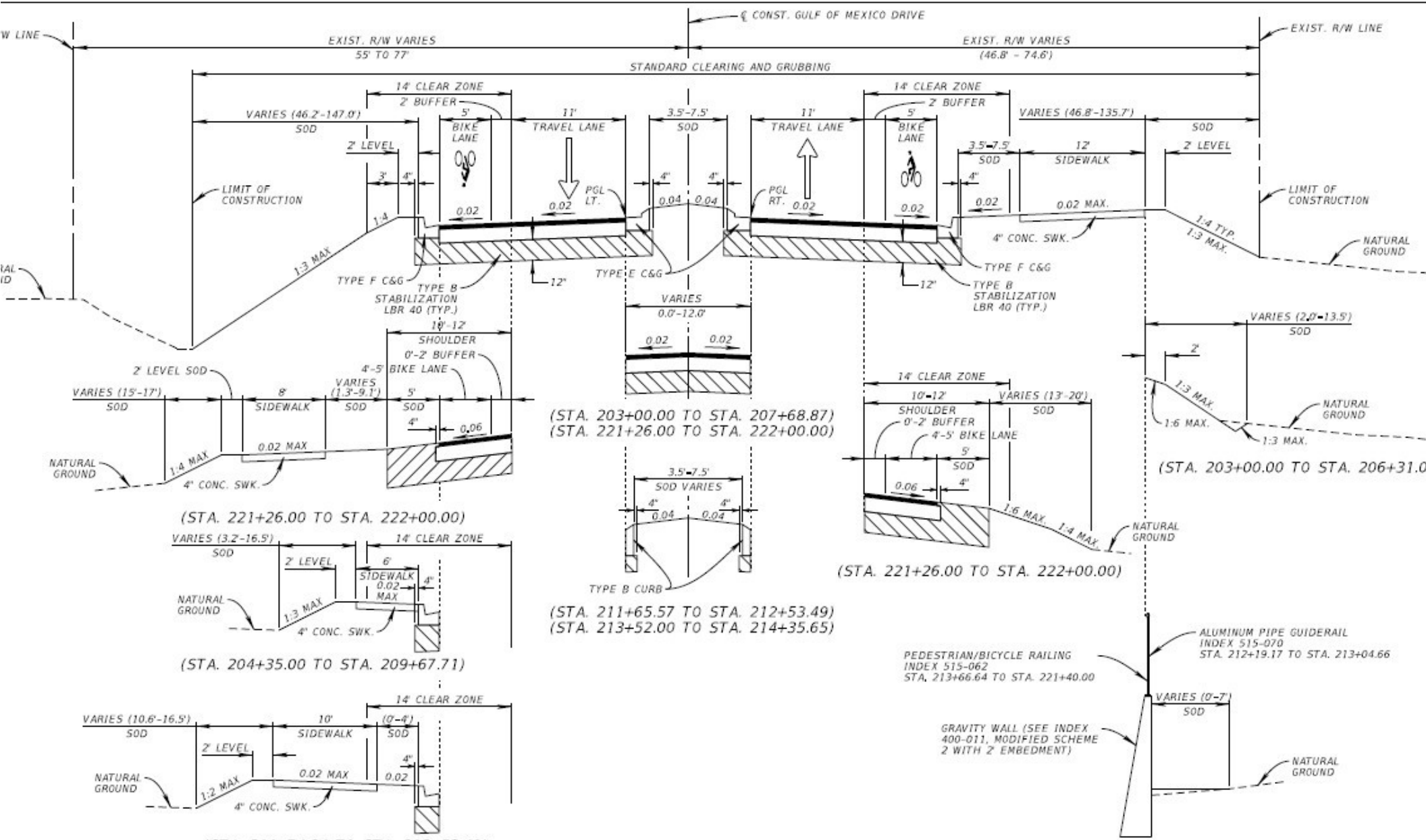
Southern Limit of Roundabout 6950 Blk. SR789/GMD. Begin Sta. 725 South to Sta. 718 to North

State Road 789 Gulf of Mexico Drive Roundabout at Broadway



State Road 789 Gulf of Mexico Drive Roundabout at Broadway





TRAFFIC DATA

AR = 2025 AADT = 11500
OPENING YEAR = 2026 AADT = 11594
DESIGN YEAR = 2040 AADT = 13000
= 54.0 % T = 4.5 % (24 HOUR)
R T = 5.4 %
ED = 25 MPH (ROUNDABOUT)
ED SPEED = 35 MPH (SR 789)
BAN RESIDENTIAL

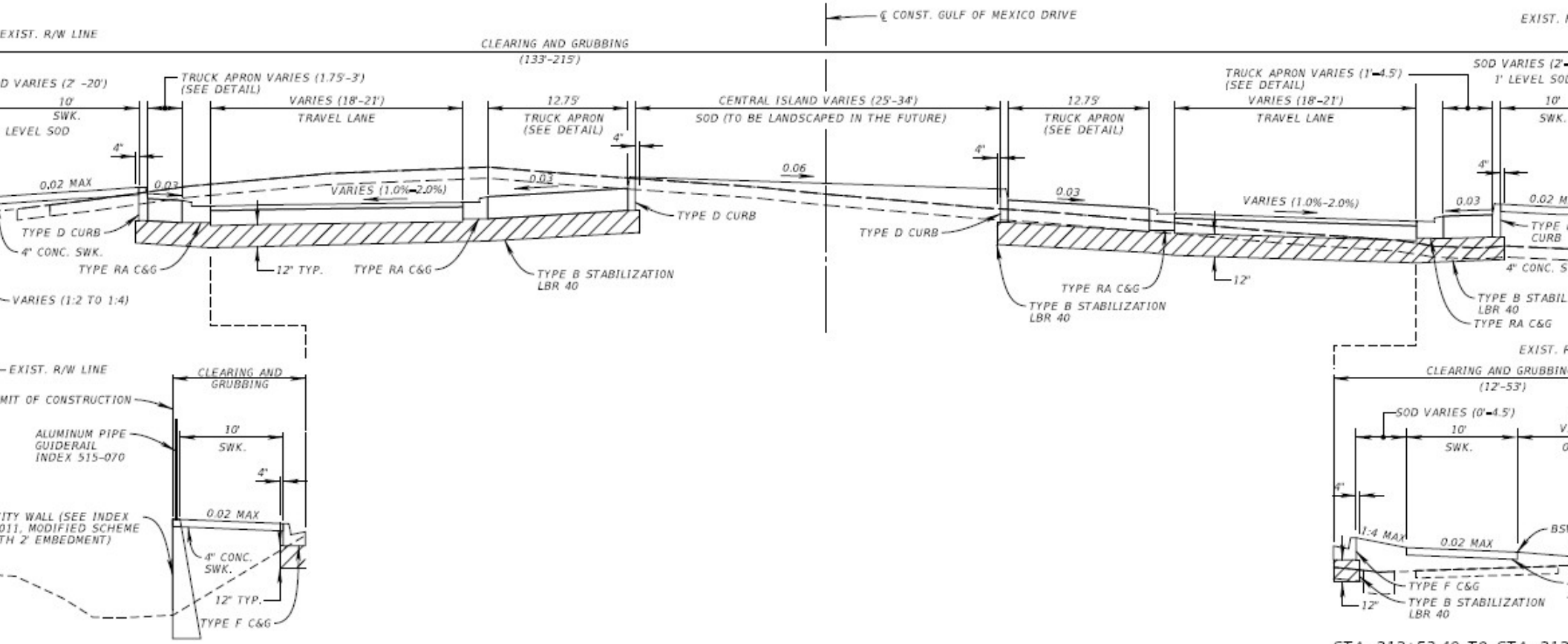
TYPICAL SECTION
SR 789 (GULF OF MEXICO DRIVE)
STA. 203+00.00 TO STA. 212+53.49
STA. 213+52.00 TO STA. 222+00.00

WIDENING / NEW CONSTRUCTION

OPTIONAL BASE GROUP 6
STRUCTURAL COURSE SP-12.5 (TRAFFIC B) (1.5")
FRICTION COURSE FC-12.5 (TRAFFIC B) (1.5") (PG 76-

REVISIONS			ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			
DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	TYPICAL SECTION
				SR 789	MANATEE	453730-1-52-01	

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Seth.Kline 2/12/



STA. 212+95.51 TO STA. 213+55.06

STA. 212+53.49 TO STA. 212

TYPICAL SECTION (ROUNDABOUT)
SR 789 (GULF OF MEXICO DRIVE)
STA. 212+53.49 TO STA. 213+52.00

TRAFFIC DATA

NT YEAR = 2025 AADT = 11500
ATED OPENING YEAR = 2026 AADT = 11594
ATED DESIGN YEAR = 2040 AADT = 13000
% D = 54.0 % T = 4.5 % (24 HOUR)
N HOUR T = 5.4 %
N SPEED = 25 MPH (ROUNDABOUT)
SUBURBAN RESIDENTIAL

WIDENING / NEW CONSTRUCTION

OPTIONAL BASE GROUP 6
STRUCTURAL COURSE SP-12.5 (TRAFFIC B) (1.5")
FRICTION COURSE FC-12.5 (TRAFFIC B) (1.5") (PG 76-

MILLING & RESURFACING

MILL EXISTING ASPHALT PAVEMENT (1.5" AVG. DEPT
FRICTION COURSE FC-12.5 (TRAFFIC B) (1.5") (PG 76-

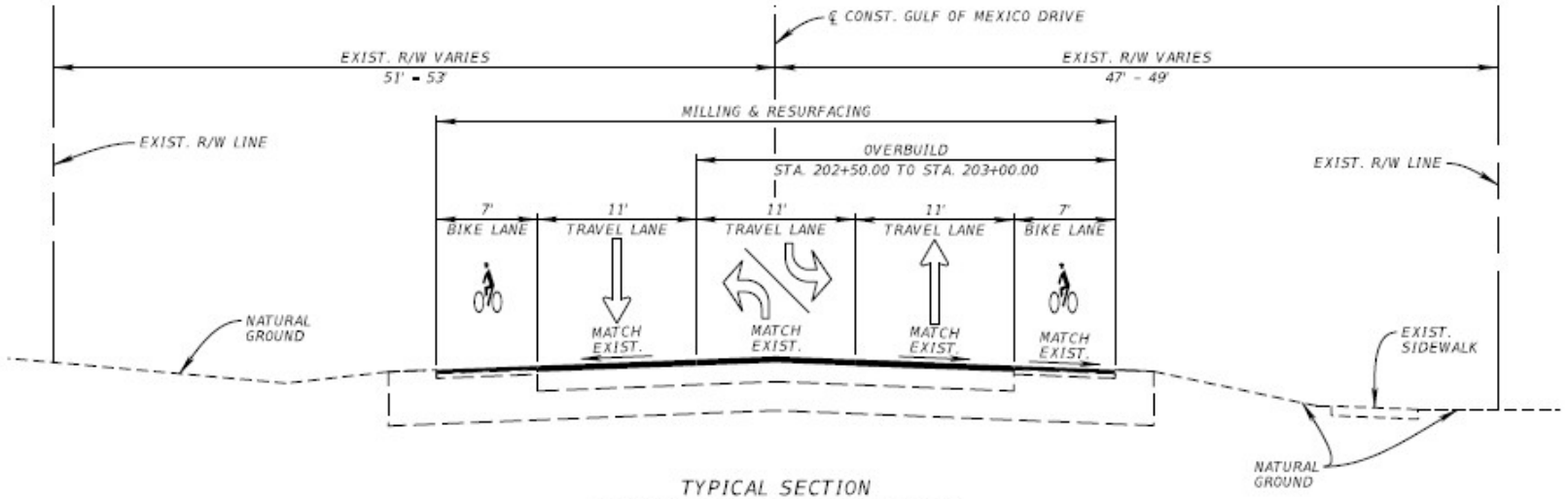
REVISIONS		
DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

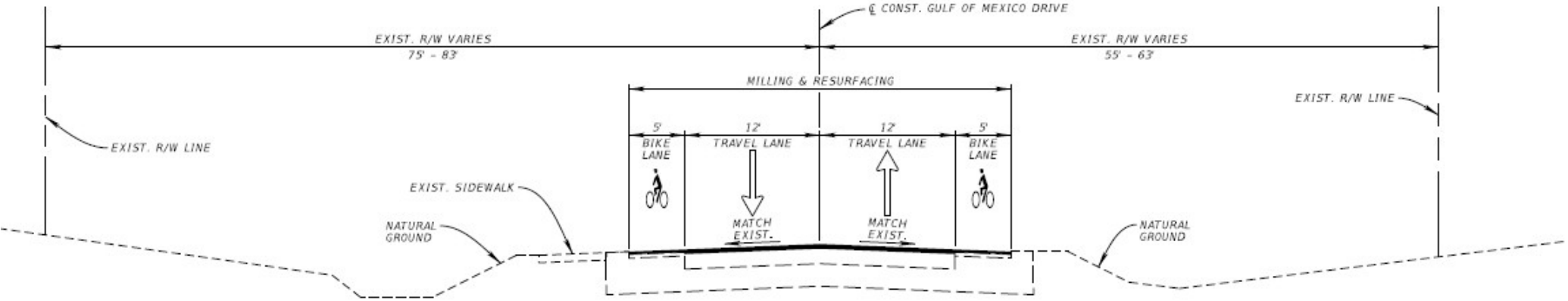
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TYPICAL SECTION



TYPICAL SECTION
SR 789 (GULF OF MEXICO DRIVE)
STA. 200+80.00 TO STA. 203+00.00



TYPICAL SECTION
SR 789 (GULF OF MEXICO DRIVE)
STA. 222+00.00 TO STA. 223+25.00

TRAFFIC DATA

RRENT YEAR = 2025 AADT = 11500
TIMATED OPENING YEAR = 2026 AADT = 11594
TIMATED DESIGN YEAR = 2040 AADT = 13000
= 9 % D = 54.0 % T = 4.5 % (24 HOUR)
SIGN HOUR T = 5.4 %
SIGN SPEED = 25 MPH (ROUNDABOUT)
SIGN/POSTED SPEED = 35 MPH (SR 789)
R - SUBURBAN RESIDENTIAL

MILLING & RESURFACING

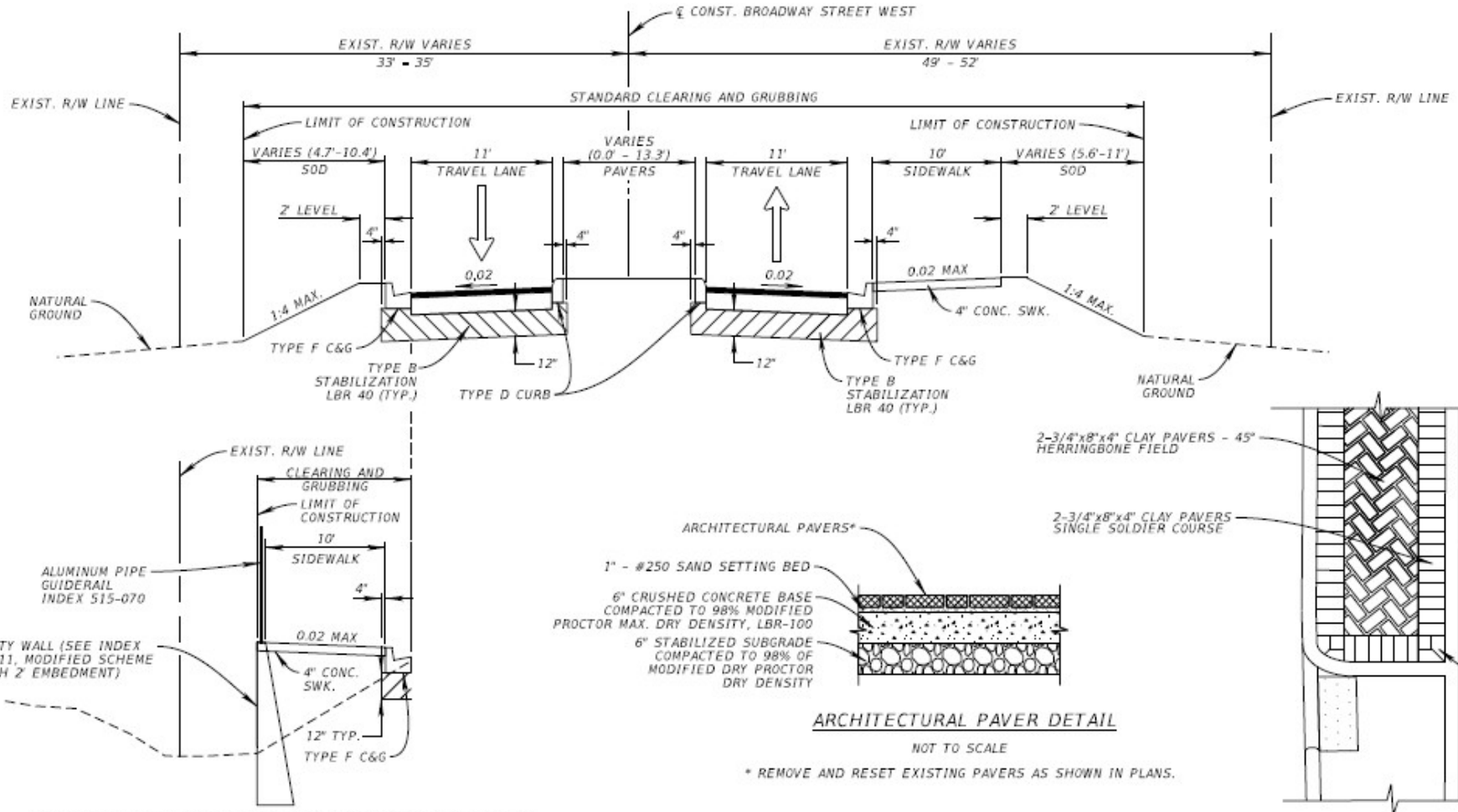
MILL EXISTING ASPHALT PAVEMENT (1.5" AVG. DEPT
FRICTION COURSE FC-12.5 (TRAFFIC B) (1.5") (PG 76-2

OVERBUILD

TYPE SP STRUCTURAL COURSE (TRAFFIC B)

REVISIONS			ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION
DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 789	MANATEE	453730-1-52-01	

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Seth.Kline 2/12/20



SEE SR789 TYPICAL SECTION FOR STATION LIMITS

TYPICAL SECTION
BROADWAY STREET WEST
STA. 11+55.86 TO STA. 12+25.43

ARCHITECTURAL PAVER DETAIL

NOT TO SCALE

* REMOVE AND RESET EXISTING PAVERS AS SHOWN IN PLANS.

SPLITTER ISLAND AND MEDI
ARCHITECTURAL PAVERS PLAN D

N.T.S.

TRAFFIC DATA

EAR = 2025 AADT = N/A
OPENING YEAR = 2026 AADT = N/A
DESIGN YEAR = 2040 AADT = N/A
= N/A T = N/A (24 HOUR)
UR T = N/A
STED SPEED = 20 MPH
IRBAN RESIDENTIAL

WIDENING / NEW CONSTRUCTION

OPTIONAL BASE GROUP 6
STRUCTURAL COURSE SP-12.5 (TRAFFIC B) (1.5")
FRICTION COURSE FC-12.5 (TRAFFIC B) (1.5") (PG 76-22)

REVISIONS		
DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

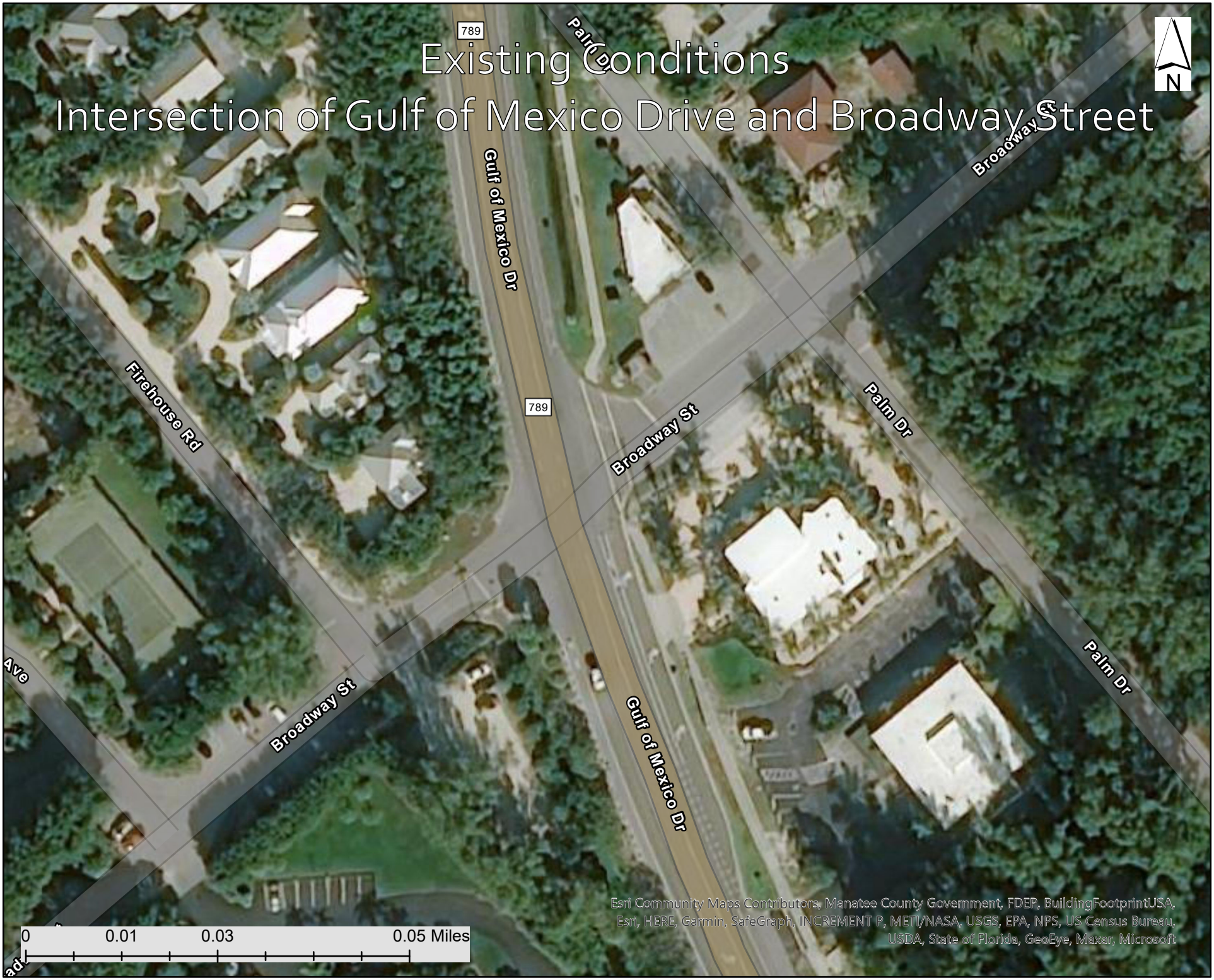
GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TYPICAL SECTION

ATTACHMENT B: Attach Project photos


Existing Conditions
Intersection of Gulf of Mexico Drive and Broadway Street
N
789
Palm Dr
Broadway St
Gulf of Mexico Dr
Firehouse Rd
789
Broadway St
Palm Dr
Ave
Broadway St
Gulf of Mexico Dr
Palm Dr
0
0.01
0.03
0.05 Miles
Esri Community Maps Contributors, Manatee County Government, FDEP, BuildingFootprintUSA, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, State of Florida, GeoEye, Maxar, Microsoft

ATTACHMENT C: Attach detailed Cost Estimates including Pay Items

Name of Applying Agency:

Town of Longboat Key

Project Name:

State Road 789 Gulf of Mexico Drive Roundabout at Broadway

PD&E

PE

Right of Way Acquisition

MOT

Clearing and Grubbing

Sediment barrier

Milling

Excavation

Stormwater improvements

Curbing

Opt. Base Group

Structural Course Type B

FC Type B Pavement

Pavement marking

Landscape/Sod

TOTAL **Construction - includes Town's UWCA and LFA amounts** **$9,335,724**

TOTAL Amount Requested **$9,335,724**

ATTACHMENT D Attach Detail From LRTP, MPO Priorities and/or CIP

449122-1	SR 72 from US 41 to E of Derek Ave	Resurfacing incl. ATMS	Sarasota County	CST	*See CFP ID_91*
451389-1	Beach Rd from Avenida del Mare to Midnight Pass Rd	Transit Improvements	Breeze Transit	CST	
453422-1	Morgan Johnson Rd from 13th Ave E to SR 64	Sidewalk	Manatee County	CST	
453537-1	US 41 from Bee Ridge Rd to US 301	ATMS	Sarasota County	CST	
453538-1	US 41 from Gulf Gate Dr to Bee Ridge Rd	ATMS	Sarasota County	CST	*See CFP ID_137*
453539-1	Fruitville Rd from US 301 to Honore Ave	ATMS	Sarasota County	CST	
453563-1	US 41 Transit Signal Priority Sarasota & Manatee	Traffic Signals	Sarasota & Manatee	CST	
453730-1	SR 789 at Broadway St	Roundabout	Town of Longboat Key	CST	
455742-1	US 301 from Tallevast Rd to 9th St	ATMS	Manatee County	CST	
454978-1	Gateway Greenway Palmetto Trails Network (South and Middle)	Multi Use Trail	Manatee County	PE	Palmetto Trails Network PD&E
455928-2	Beneva Rd to Bobby Jones Golf Course	Multi Use Trail	City of Sarasota	CST	SUN Trail
456415-1	10th St from US 41 to Orange Ave Boulevard of the Arts from US 41 to Orange Ave	Context Sensitive Design	City of Sarasota	CST	 BUILD Grant
456625-1	US 41 at 47th St Perpetual Easement	Safety Project	City of Sarasota	CST	Pedestrian Crossing
457403-1	Manatee Ave SUN Trail from 75th St W to 9th St W	Multi Use Trail	Manatee County, City of Bradenton	PD&E	SUN Trail
457404-1	17th St Regional Park Trail	Multi Use Trail	Sarasota County	CST	SUN Trail
457694-1	SR 789 from Longboat Pass Bridge to Longboat Club Rd	Multi Use Trail	Town of Longboat Key	PD&E	SUN Trail

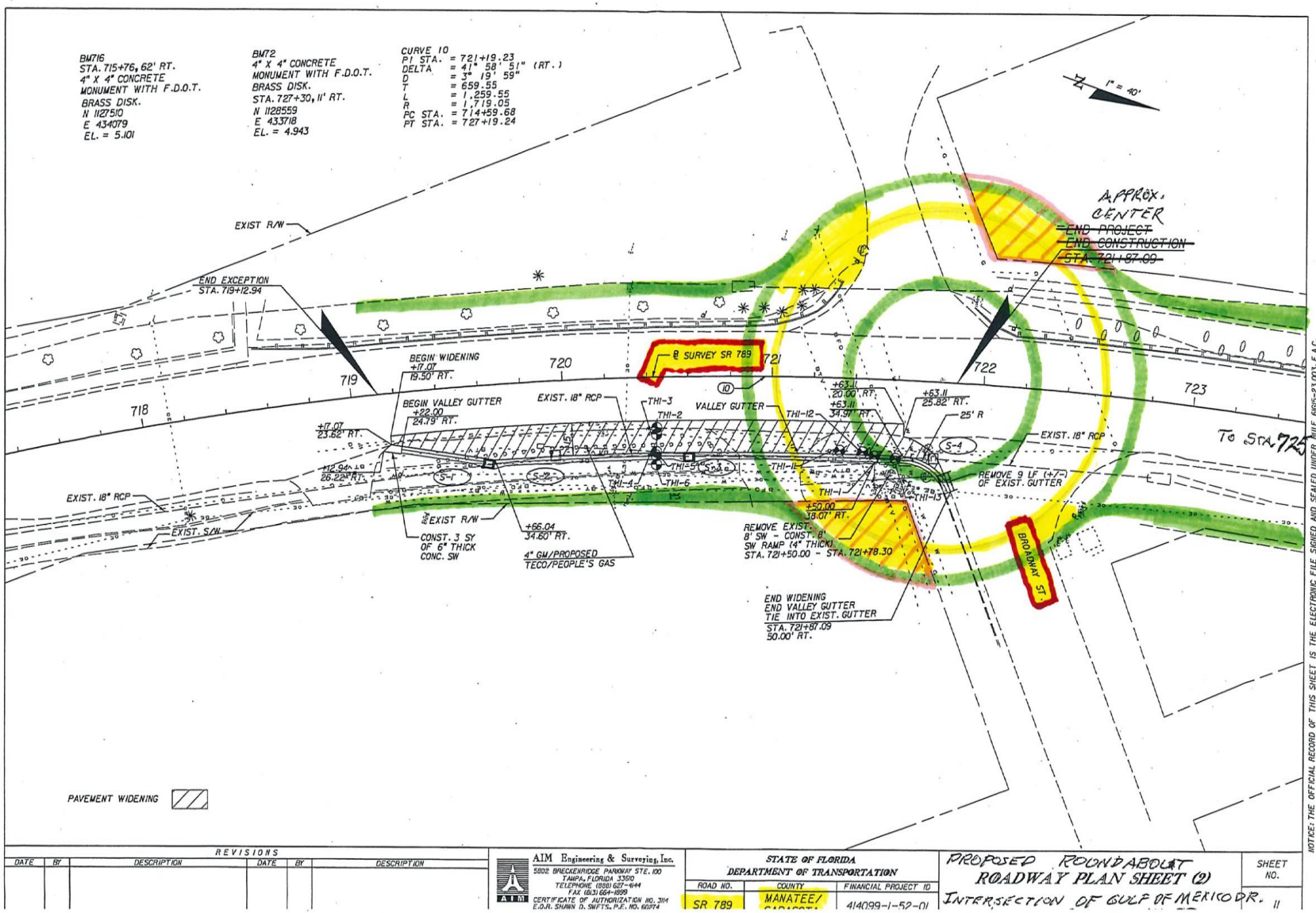
Table 9-1: Barrier Island Traffic Study Priority Projects

Facility (Project)	Limits	Description of Improvement
SR 64/Manatee Ave/Anna Maria	from SR 789 to Perico Bay	New/Replacement Bridge including Bus-on-Shoulder
SR 684/Cortez Rd	from SR 789 to 123rd St W	New/Replacement Bridge including Bus-on-Shoulder
SR 789/Ringling/Coon Key	from Bird Key to Sarasota Harbor W	New/Replacement Bridge including Bus-on-Shoulder
SR 789/Gulf of Mexico Dr/Longboat Pass	from North Shore to Coquina Beach	New/Replacement Bridge
SR 789/Gulf of Mexico Dr	from Longboat Pass Bridge to 27th St N	Multi Modal Capacity
SR 789/Gulf of Mexico Dr	from 27th St N to Palm Dr/Gulf Dr Intersection	Multi Modal Capacity
John Ringling Causeway	East of Coon Key Bridge to East of John Ringling Bridge	Multi Modal Improvements
SR 789/Gulf of Mexico Dr	at Broadway St	Roundabout
SR 684/Cortez Rd	at 75th St W	Turn Lanes
SR 789/Gulf of Mexico Dr	at Longboat Club Rd	Roundabout
SR 789/Gulf of Mexico Dr	Within Town of Longboat Key limits	Multi Use Trail

FY2027 (October 1, 2026 - September 30, 2027) -CARRYOVER UPDATED 08.21.26									Five Year Capital Plan FY27-31					NEXT FIVE YEARS					
Capital Project # in ClearGov	Project Manager	Fund	Capital Project Title	Description	Department	GL Account	FORMULA -DO NOT OVERWRITE FY2026 CARRYOVER	UPDATE FY2027 NEW SPENDING	FORMULA -DO NOT OVERWRITE FY 2027 TOTAL	UPDATE FY 2028	UPDATE FY 2029	UPDATE FY2030	UPDATE FY 2031	FORMULA -DO NOT OVERWRITE Five Year Plan Total	UPDATE FY 2032	UPDATE FY 2033	UPDATE FY 2034	UPDATE FY 2035	UPDATE FY 2036	10 Year Total-FY27 FY36
224	Jennifer Fehrs	301	Broadway roundabout (Planning Design & Engineering)	Now that FDOT has formally approved the roundabout concept as an acceptable intersection control at this location, funds can be used to proceed to design engineering and permitting.	50-32	301-50-32-565.6507	317,107	0	317,107	0	0	0	0	317,107	0	0	0	0	0	317,107
294	Jennifer Fehrs	301	Broadway Roundabout Construction	Landscape, FPL relocates, and paver installation. Need to account for relocation of fiber conduit est. $40k, and add $75k to elevate RVA/Century 21 sign an additional 7ft.	50-32	301-50-32-565.6507-RNDBOUT	250,000	115,000	365,000	0	0	0	0	365,000	0	0	0	0	0	365,000

ATTACHMENT E: Attach detailed Survey or ROW documentation

SEE ALSO THE INCLUDED PLAN SET


BM716
STA. 715+76.62' RT.
4" X 4" CONCRETE
MONUMENT WITH F.D.O.T.
BRASS DISK.
N 1127510
E 434079
EL. = 5.101
BM72
4" X 4" CONCRETE
MONUMENT WITH F.D.O.T.
BRASS DISK.
STA. 727+30.11' RT.
N 1128559
E 433718
EL. = 4.943
CURVE 10
PI STA. = 721+19.23
DELTA = 41° 58' 51" (RT.)
D = 3° 19' 59"
T = 659.55
L = 1,259.55
R = 1,719.05
PC STA. = 714+59.68
PT STA. = 727+19.24
1" = 40'
EXIST R/W
END EXCEPTION
STA. 719+12.94
BEGIN WIDENING
+17.07
19.50' RT.
BEGIN VALLEY GUTTER
+22.00
24.79' RT.
+17.07
23.82' RT.
EXIST. 18" RCP
EXIST. S/W
EXIST R/W
+66.04
34.60' RT.
CONST. 3 SY
OF 6" THICK
CONC. SW
4" GW/PROPOSED
TECO/PEOPLE'S GAS
@ SURVEY SR 789
VALLEY GUTTER
THI-1
THI-2
THI-3
THI-4
THI-5
THI-6
THI-11
THI-12
THI-15
+63.11
20.00' RT.
+63.11
34.97' RT.
+63.11
25.82' RT.
25' R
EXIST. 18" RCP
REMOVE 9 LF (+/-)
OF EXIST. GUTTER
+50.00
38.07' RT.
REMOVE EXIST.
8' SW - CONST. 8'
SW RAMP (4" THICK)
STA. 721+50.00 - STA. 721+78.30
END WIDENING
END VALLEY GUTTER
TIE INTO EXIST. GUTTER
STA. 721+87.09
50.00' RT.
APPROX.
CENTER
END PROJECT
END CONSTRUCTION
STA. 721+87.09
BROADWAY ST.
To STA. 725
718
719
720
721
722
723
S-1
S-2
S-3
S-4
PAVEMENT WIDENING
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.
REVISIONS
DATE
BY
DESCRIPTION
DATE
BY
DESCRIPTION
AIM Engineering & Surveying, Inc.
5802 BRECKENRIDGE PARKWAY STE. 100
TAMPA, FLORIDA 33610
TELEPHONE (800) 627-4144
FAX (813) 664-1899
CERTIFICATE OF AUTHORIZATION NO. 3114
E.D.A. SHAWN D. SWIFT, P.E. NO. 60274
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO.
COUNTY
FINANCIAL PROJECT ID
SR 789
MANATEE/
414099-1-52-01
PROPOSED ROUNDABOUT
ROADWAY PLAN SHEET (2)
INTERSECTION OF GULF OF MEXICO DR.
SHEET NO.
11

ATTACHMENT F: Attach detailed breakdown of ROW costs

N/A

CONTRACT PLANS COMPONENTS

ROADWAY
SIGNING AND PAVEMENT MARKING
LIGHTING

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	DRAINAGE MAP - EXISTING
4	EXISTING DRAINAGE STRUCTURES
5	DRAINAGE MAP - PROPOSED
6 - 7	DRAINAGE STRUCTURE INFORMATION SHEET
8 - 12	TYPICAL SECTIONS
13 - 15	SPECIAL DETAILS
16	PROJECT LAYOUT AND CONTROL
17	GENERAL NOTES
18 - 22	PLAN SHEETS
23 - 25	PROFILE SHEETS
26 - 27	ROUNDABOUT GEOMETRY AND GRADING DETAIL
28 - 34	DRAINAGE STRUCTURES
35	ROADWAY SOIL SURVEY
36 - 43	REPORT OF CORE BORINGS
44 - 56	CROSS SECTIONS
57	CIRCULATING ROADWAY CROSS SECTIONS
58	DRIVEWAY HALF SECTIONS
59	SUMMARY OF VERIFIED UTILITIES
60 - 91	TEMPORARY TRAFFIC CONTROL PLAN
92 - 96	UTILITY ADJUSTMENT SHEETS
97	MODIFICATIONS TO STANDARD PLANS, INDEX 430-030

DEVELOPMENTAL STANDARD PLANS (DSPs):

D528-001	DIRECTIONAL INDICATOR

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2026-27 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: N/A

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY2026-27 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS

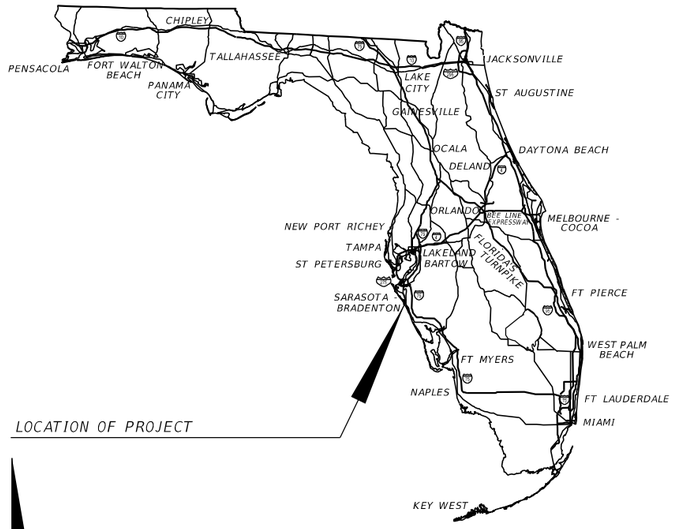
FINANCIAL PROJECT ID 453730-1-52-01, 453730-1-52-02

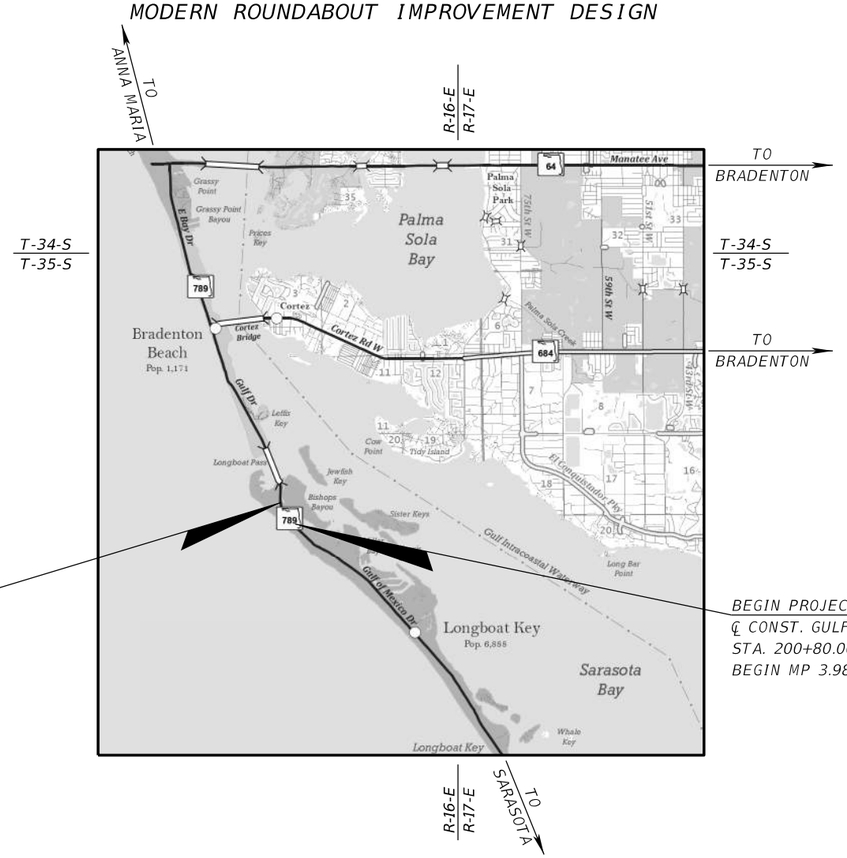
(FEDERAL FUNDS)
MANATEE COUNTY (13080)

STATE ROAD NO. 789 (GULF OF MEXICO DR.)

MODERN ROUNDABOUT IMPROVEMENT DESIGN

THIS PROJECT TO BE LET TO CONTRACT
WITH FINANCIAL PROJECT ID(S):
453730-1-56-01





END PROJECT
℄ CONST. GULF OF MEXICO DR.
STA. 223+25.00
END MP 4.405

BEGIN PROJECT
℄ CONST. GULF OF MEXICO DR.
STA. 200+80.00
BEGIN MP 3.980

ROADWAY PLANS ENGINEER OF RECORD:

GARY J. NADEAU, P.E. NO.: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236
PHONE (941) 379-7600
CONTRACT NO.: CAD90
VENDOR NO.: F560885615202

FDOT PROJECT MANAGER:

JOEL HOBBS, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T1935	27	1

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

c:\pw\kh1\d0576572\KEYSRD01.dgn :
#USERS 2/16/202610:55:37 AM

GARY J. NADEAU
LICENSE
No 49629
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236
GARY J. NADEAU, P.E. NO. 49629

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

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	DRAINAGE MAP - EXISTING
4	EXISTING DRAINAGE STRUCTURES
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58	DRIVEWAY HALF SECTIONS
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92 - 96	UTILITY ADJUSTMENT SHEETS

DANIEL R. RUEL
LICENSE
No 82404
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637
DANIEL R. RUEL, P.E. NO. 82404

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

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
35	ROADWAY SOIL SURVEY
36 - 43	REPORT OF CORE BORINGS

NOLAN B. VILLATORO
LICENSE
No 93862
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

KIMLEY-HORN AND ASSOCIATES, INC.
200 SOUTH ORANGE AVENUE, SUITE 600
ORLANDO, FLORIDA 32801
NOLAN B. VILLATORO, P.E. NO. 93862

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

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
97	MODIFICATIONS TO STANDARD PLANS, INDEX 430-030

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

BIM FILES IDENTIFIED AS PLANS TO SUPPORT EARTHWORK

FILE NAME	FILE DESCRIPTION	SHA256 Encryption Code
45373015201\Roadway\MODLRD04.dgn	Earthwork Volumes File	4B3CC0F624ED6DB0D1A486CCE536E1E0FD6076A3C06456187A94340771237960
45373015201\Roadway\MODLRD02.dgn	3D Modeling File (Existing/Proposed)	32FBEB92DA96FB8988F384EACE7B2E43E97B095463E5C6B57A683794461A1815

https://emn178.github.io/online-tools/sha256_checksum.html

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

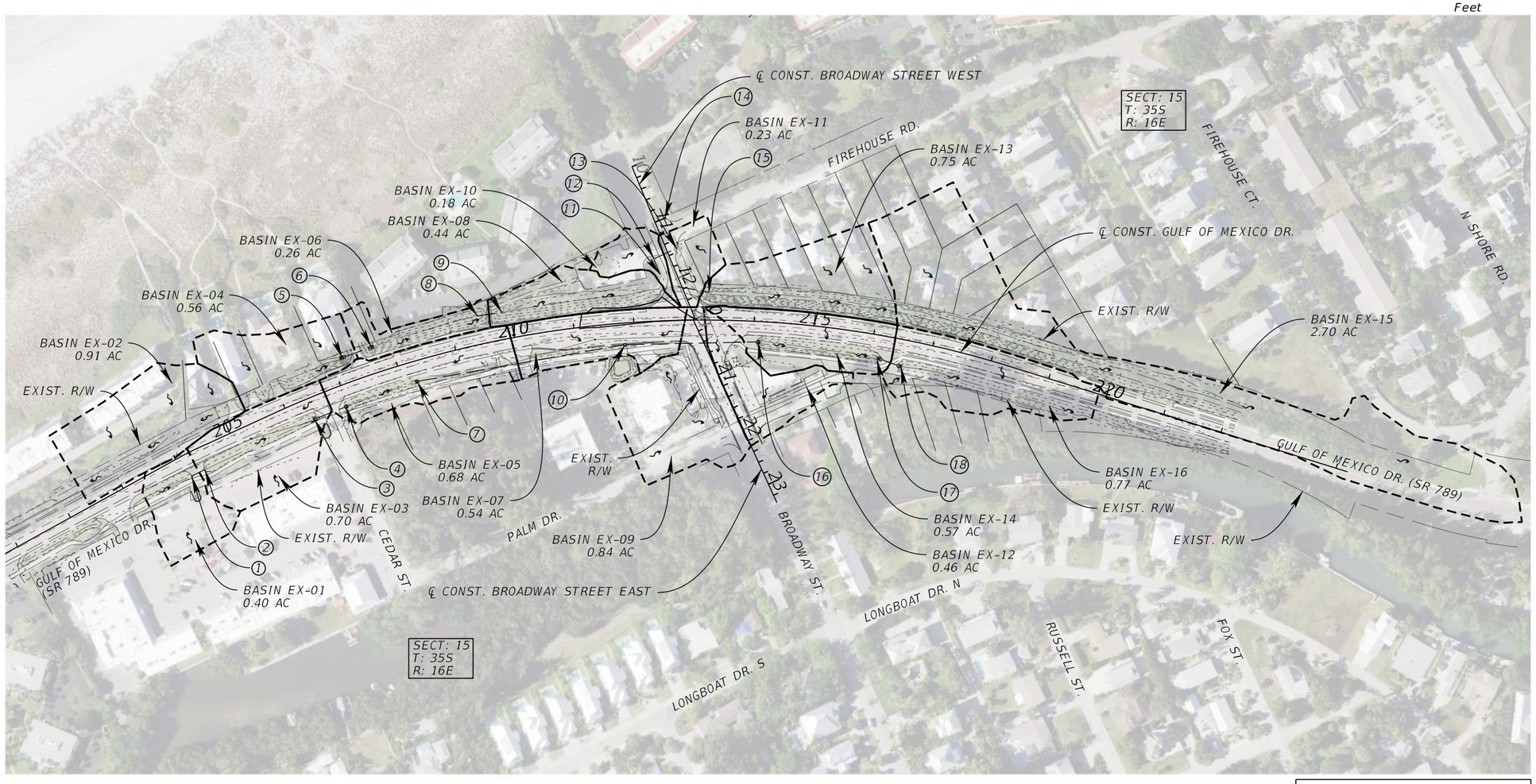
GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

SIGNATURE SHEET

SHEET NO.
2



LEGEND

- EXIST. BASIN BOUNDARY
- (##) EXIST. STR. #

PLANS REFERENCE THE NAVD 1988 VERTICAL DATUM

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE MAP (1) - EXISTING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		3
					SR 789	MANATEE	453730-1-52-01		

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

c:\pw\kh1\d0576597\DRMPRD01.dgn : CL_CONSTGMD - PLAN 1 [SHEET]
Seth.Kline 2/12/2026 10:13:57 AM

(1) MES
N FL 1.48 (18" RCP)
TO BE REMOVED

(2) MES
S FL 1.38 (18" RCP)
TO BE REMOVED

(3) MES
N FL 0.96 (18" RCP)
TO BE REMOVED

(4) MES
S FL 1.17 (18" RCP)
TO BE REMOVED

(5) MES
N FL 2.50 (18" RCP)
TO REMAIN

(6) MES
S FL 2.27 (18" RCP)
TO REMAIN

(7) MES
N FL 0.81 (18" RCP)
TO BE REMOVED

(8) MES
N FL 2.85 (15" CPP)
TO REMAIN

(9) MES
S FL 2.25 (15" CPP)
TO REMAIN

(10) CURB INLET
TOP EL. UNKNOWN
N FL 0.03 (18" RCP)
S FL 0.07 (18" RCP)
TO BE REMOVED

(11) UNKNOWN
NW FL UNKNOWN (12" RCP)
TO BE REMOVED

(12) GRATE INLET
NE FL 1.27 (12" RCP)
NW FL 1.16 (12" RCP)
TO BE REMOVED

(13) GRATE INLET
SE FL 0.78 (12" RCP)
SW FL 0.82 (UNKNOWN)
TO REMAIN

(14) GRATE INLET
NE FL UNKNOWN
NW FL UNKNOWN
TO REMAIN

(15) MES
S FL -0.20 (18" RCP)
TO BE REMOVED

(16) MES
S FL 0.97 (18" RCP)
TO BE REMOVED

(17) MES
N FL 1.15 (18" RCP)
TO BE REMOVED

(18) MES
S FL 1.41 (18" RCP)
TO BE REMOVED

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

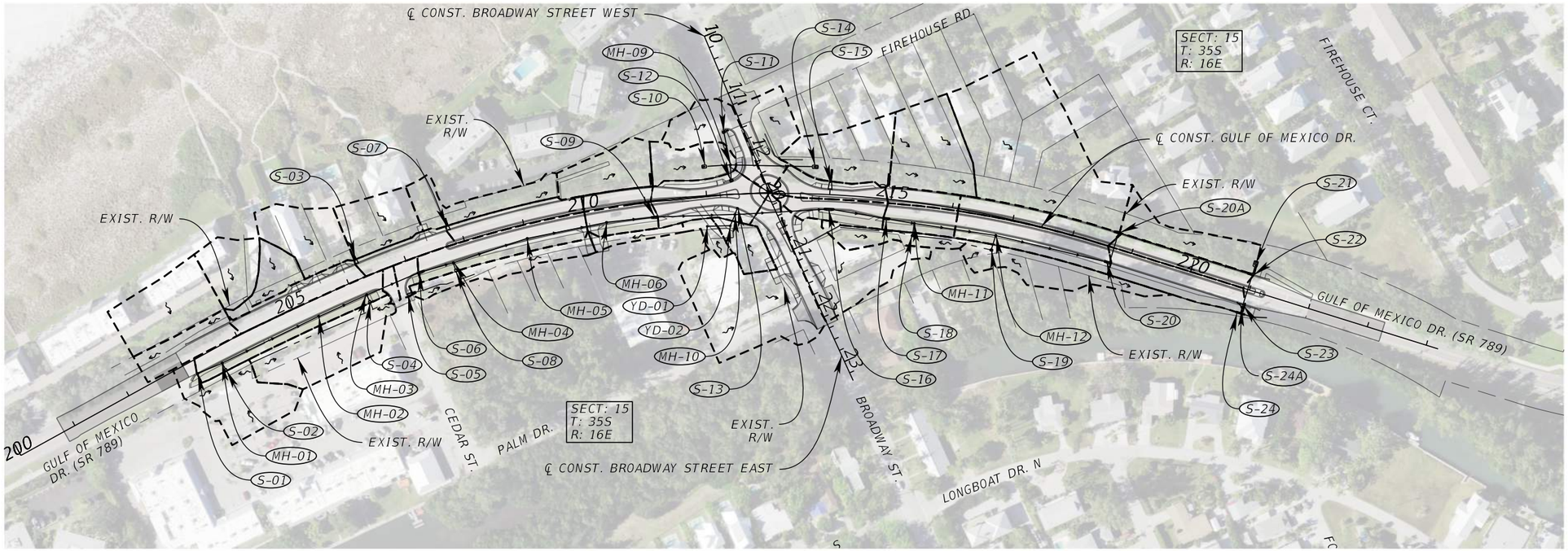
ENGINEER OF RECORD
GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

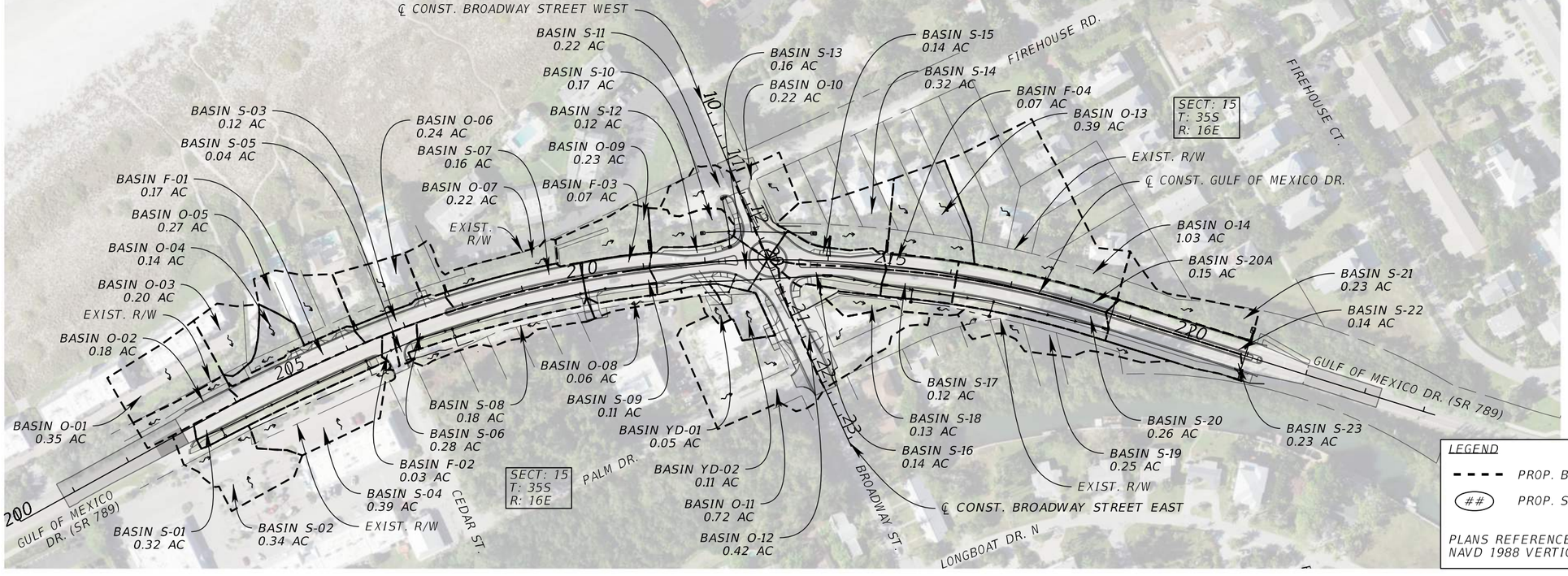
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

EXISTING DRAINAGE STRUCTURES

SHEET NO. 4





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

DRAINAGE MAP (2) - PROPOSED

SHEET NO. 5

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

c:\pw\kh1\d0576597\DRMPRD02.dgn : CL_CONSTGMD - PLAN 1 [SHEET]
Seth.Kline 2/12/2026 10:31:28 AM

STRUCTURE DATA

LABEL	BASELINE FEATURE	BASELINE STATION (FT)	BASELINE OFFSET (FT)	STRUCTURE TYPE	BOTTOM DIMENSIONS	FDOT STANDARD PLANS INDEX	REFERENCE POINT ELEVATION (FT)	SUMP ELEVATION (STRUCTURE INVERT) (FT)	REMARKS
MH-01	CL_CONSTGMD	203+58.00	26.65	MANHOLE TYPE 8	3.5'x3.5' P-BOTTOM	425-001	4.53	-0.21	
MH-02	CL_CONSTGMD	205+34.00	27.68	MANHOLE TYPE 8	3.5'x3.5' P-BOTTOM	425-001	5.74	-0.46	
MH-03	CL_CONSTGMD	206+20.00	27.86	MANHOLE TYPE 8	3.5'x3.5' P-BOTTOM	425-001	6.05	-0.58	
MH-04	CL_CONSTGMD	207+72.00	28.83	MANHOLE TYPE 8	3.5'x3.5' P-BOTTOM	425-001	6.50	-0.75	
MH-05	CL_CONSTGMD	209+00.00	23.81	MANHOLE TYPE 8	3.5'x3.5' P-BOTTOM	425-001	6.53	-0.90	
MH-06	CL_CONSTGMD	210+33.00	24.16	MANHOLE TYPE 8	3.5'x3.5' P-BOTTOM	425-001	6.74	-1.05	
MH-09	CL_CONSTGMD	212+41.00	-47.85	MANHOLE TYPE 8	3.5'x3.5' P-BOTTOM	425-001	5.75	0.50	
MH-10	CL_CONSTGMD	212+45.00	32.90	MANHOLE TYPE 7	4.0'x4.0' J-BOTTOM	425-001	6.72	-1.30	
MH-11	CL_CONSTGMD	215+42.00	34.17	MANHOLE TYPE 8	4.0'x4.0' J-BOTTOM	425-001	7.00	-1.60	
MH-12	CL_CONSTGMD	216+78.00	31.02	MANHOLE TYPE 8	4.0'x4.0' J-BOTTOM	425-001	7.00	-1.70	
S-01	CL_CONSTGMD	203+15.50	21.29	CURB INLET TYPE 9	3.5'x3.5' P-BOTTOM	425-024	3.87	-0.15	
S-02	CL_CONSTGMD	203+58.00	39.56	DBI TYPE C (MOD.) - BOSW	N/A	425-060	4.83	1.00	2.0'X1.0' WEIR (ELEV. 3.05)
S-03	CL_CONSTGMD	206+25.00	-22.40	CLOSED FLUME TYPE 1	N/A	425-061	5.66	N/A	
S-04	CL_CONSTGMD	206+20.00	40.50	DBI TYPE C (MOD.) - BOSW	N/A	425-060	6.30	0.75	2.0'X1.0' WEIR (ELEV. 3.00)
S-05	CL_CONSTGMD	206+81.23	54.42	CLOSED FLUME TYPE 1	N/A	425-061	4.15	N/A	
S-06	CL_CONSTGMD	207+14.50	24.44	CURB INLET TYPE 5	3.5'x3.5' P-BOTTOM	425-021	5.92	-0.69	
S-07	CL_CONSTGMD	207+81.00	-23.31	CLOSED FLUME TYPE 1	N/A	425-061	6.14	N/A	
S-08	CL_CONSTGMD	207+72.00	41.82	DBI TYPE C (MOD.) - BOSW	N/A	425-060	6.80	1.75	2.0'X1.0' WEIR (ELEV. 3.75)
S-09	CL_CONSTGMD	211+15.00	25.44	CURB INLET TYPE 5	3.5'x3.5' P-BOTTOM	425-021	6.47	-1.15	
S-11	CL_CONSTGMD	212+32.95	-101.28	DBI TYPE C	N/A	425-052	3.20	0.42	
S-12	CL_CONSTGMD	212+41.54	-22.54	DBI TYPE F	N/A	425-053	6.00	1.20	
S-13	CL_CONSTGMD	212+49.78	22.01	CURB INLET TYPE 9	3.5'x3.5' P-BOTTOM	425-024	6.15	1.50	
S-15	CL_CONSTGMD	214+00.00	-6.20	CLOSED FLUME TYPE 1	N/A	425-061	6.05	N/A	
S-16	CL_CONSTGMD	214+00.00	22.26	CURB INLET TYPE 6	3.5'x3.5' P-BOTTOM	425-021	6.05	-1.45	
S-17	CL_CONSTGMD	214+93.00	30.20	CURB INLET TYPE 5	3.5'x3.5' P-BOTTOM	425-021	6.43	-1.55	
S-18	CL_CONSTGMD	215+42.00	54.00	DBI TYPE C	N/A	425-052	3.00	0.05	
S-19	CL_CONSTGMD	216+76.00	55.46	DBI TYPE C	N/A	425-052	2.50	-0.45	
S-20	CL_CONSTGMD	218+70.00	24.00	CURB INLET TYPE 5	3.5'x3.5' P-BOTTOM	425-021	6.02	-1.85	
S-20A	CL_CONSTGMD	218+70.00	-24.00	CURB INLET TYPE 5	4.0'x4.0' J-BOTTOM	425-021	6.02	-2.21	
S-22	CL_CONSTGMD	220+97.00	-24.00	CURB INLET TYPE 5	5.0'x6.0' J-BOTTOM	425-021	5.08	-4.75	
S-23	CL_CONSTGMD	220+97.00	24.00	CURB INLET TYPE 1	4.0'x6.0' J-BOTTOM	425-020	5.08	-4.85	CONST. W/S-24A
YD-01	CL_CONSTGMD	211+98.00	49.53	YARD DRAN	N/A	425-060	3.87	N/A	
YD-02	CL_CONSTGMD	212+36.50	51.01	YARD DRAN	N/A	425-060	3.40	N/A	

ENDWALL AND MES DATA

LABEL	BASELINE FEATURE	BASELINE STATION (FT)	BASELINE STATION (FT)	STRUCTURE TYPE	INFLOW PIPE SIZE (IN)	ELEVATION INVERT (FT)	FDOT STNDARD PLANS INDEX	REMARKS
S-10	CL_CONSTGMD	212+01.00	-47.47	SD MES (1:4)	18 inch	2.40	430-022	
S-14	CL_CONSTGMD	213+72.50	-44.06	SD MES (1:4)	24 inch	1.40	430-022	
S-21	CL_CONSTGMD	220+97.00	-41.00	CD MES (1:4)	19x30 inch	0.95	430-021	
S-24	CL_CONSTGMD	220+97.00	40.30	ENDWALL (MOD.)	36 inch	-1.35	430-030	CONST. SINGLE PIPE END GUARD. FDOT INDEX 430-001.
S-24A	CL_CONSTGMD	220+97.00	39.71	FLAP GATE	36 inch	-1.30		MARINE-GRADE, CONST. W/ S-23

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

DRAINAGE STRUCTURE INFORMATION SHEET (1)

SHEET NO. 6

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

PIPE DATA

LABEL	START NODE	START INVERT (FT)	STOP NODE	STOP INVERT (FT)	BARRELS	LENGTH (FT)	SIZE (IN)	SHAPE
P-01	S-01	0.60	MH-01	0.54	1	40	14x23 inch	Elliptical
P-01C	COLLAR-01	1.16	S-11	1.17	1	6	12 inch	Circular
P-01M	MH-01	0.54	MH-02	0.29	1	171	18 inch	Circular
P-01Y	YD-01	2.00	YD-02	1.80	1	35	10 inch	Circular
P-02	S-02	1.75	MH-01	0.90	1	10	14x23 inch	Elliptical
P-02M	MH-02	0.29	MH-03	0.17	1	82	18 inch	Circular
P-02Y	YD-02	1.80	MH-10	1.75	1	17	10 inch	Circular
P-03M	MH-03	0.17	S-06	0.06	1	90	24 inch	Circular
P-04	S-04	1.50	MH-03	1.40	1	10	14x23 inch	Elliptical
P-04M	MH-04	0.00	MH-05	-0.15	1	123	24 inch	Circular
P-05M	MH-05	-0.15	MH-06	-0.30	1	128	24 inch	Circular
P-06	S-06	0.06	MH-04	0.00	1	54	24 inch	Circular
P-06M	MH-06	-0.30	S-09	-0.40	1	78	24 inch	Circular
P-08	S-08	2.50	MH-04	2.40	1	10	14x23 inch	Elliptical
P-09	S-09	-0.40	MH-10	-0.55	1	125	24 inch	Circular
P-09M	MH-09	1.55	S-14	1.40	1	130	24 inch	Circular
P-10	S-10	2.40	MH-09	1.55	1	36	18 inch	Circular
P-10M	MH-10	-0.55	S-16	-0.70	1	150	30 inch	Circular
P-11	S-11	1.27	MH-09	1.25	1	52	14x23 inch	Elliptical
P-11M	MH-11	-0.85	MH-12	-0.95	1	130	30 inch	Circular
P-12	S-12	1.95	MH-09	1.55	1	23	18 inch	Circular
P-12M	MH-12	-0.95	S-20	-1.10	1	186	30 inch	Circular
P-13	S-13	2.25	MH-10	2.20	1	8	14x23 inch	Elliptical
P-16	S-16	-0.70	S-17	-0.80	1	89	30 inch	Circular
P-17	S-17	-0.80	MH-11	-0.85	1	45	30 inch	Circular
P-18	S-18	0.80	MH-11	0.75	1	18	14x23 inch	Elliptical
P-19	S-19	0.30	MH-12	0.20	1	22	18 inch	Circular
P-20	S-20	-1.10	S-20A	-1.46	1	47	30 inch	Circular
P-20A	S-20A	-1.46	S-22	-2.00	1	224	36 inch	Circular
P-21	S-21	0.95	S-22	0.80	1	9	19x30 inch	Elliptical
P-22	S-22	-4.00	S-23	-4.10	1	51	29x45 inch	Elliptical
P-23	S-23	-1.30	S-24	-1.35	1	10	36 inch	Circular

OPTIONAL PIPE MATERIALS

STRUCTURE	SIZES (IN) (ROUND AND OTHER)	MATERIAL	PLOTTED	AS-BUILT	REMARKS
STORM DRAIN					
YD-01	10	PVC, ASTM F-949	X		
S-11	12	RCP, CL I	X		
ALL OTHER STORM DRAINS	18, 24	NRCP, CL HE I	X		
		SRAP, Spiral Rib (16 Ga.)			
		SRASP, Spiral Rib (10 Ga.)			
	30, 36	NRCP, CL HE I	X		
		RCP, CL I			
		SRAP, Spiral Rib (16 Ga.)			
		SRASP, Spiral Rib (10 Ga.)			
		HDPE, CL II			
		PP, CL II			
		PVC, ASTM F-949			
SIDE DRAIN					
	18, 24	NRCP, CL HE I	X		
		SRAP, Spiral Rib (16 Ga.)			
		SRASP, Spiral Rib (10 Ga.)			
		HDPE, CL II			
		PP, CL II			
		PVC, ASTM F-949			
CROSS DRAIN					
	24	NRCP, CL HE I	X		
		SRAP, Spiral Rib (16 Ga.)			
		SRASP, Spiral Rib (10 Ga.)			
	36	NRCP, CL HE I	X		
		RCP, CL I			
		SRAP, Spiral Rib (16 Ga.)			
		SRASP, Spiral Rib (10 Ga.)			
		HDPE, CL II			
		PP, CL II			
		PVC, ASTM F-949			
WALL PIPE**					
YD-02	10	PVC, ASTM F-949	X		
S-19 and S-18	18	PVC, ASTM F-949	X		
		PP, CL II			

**CONTRACTOR TO POUR THE WALL ARCHED OVER THE TOP OF THE PIPE OR TO PROVIDE A PIPE SLEEVE, USING EXPANSION MATERIAL TO MINIMIZE POINT LOADS ON THE PIPE FOR STRUCUTRES YD-02, S-18, AND S-19.

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

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

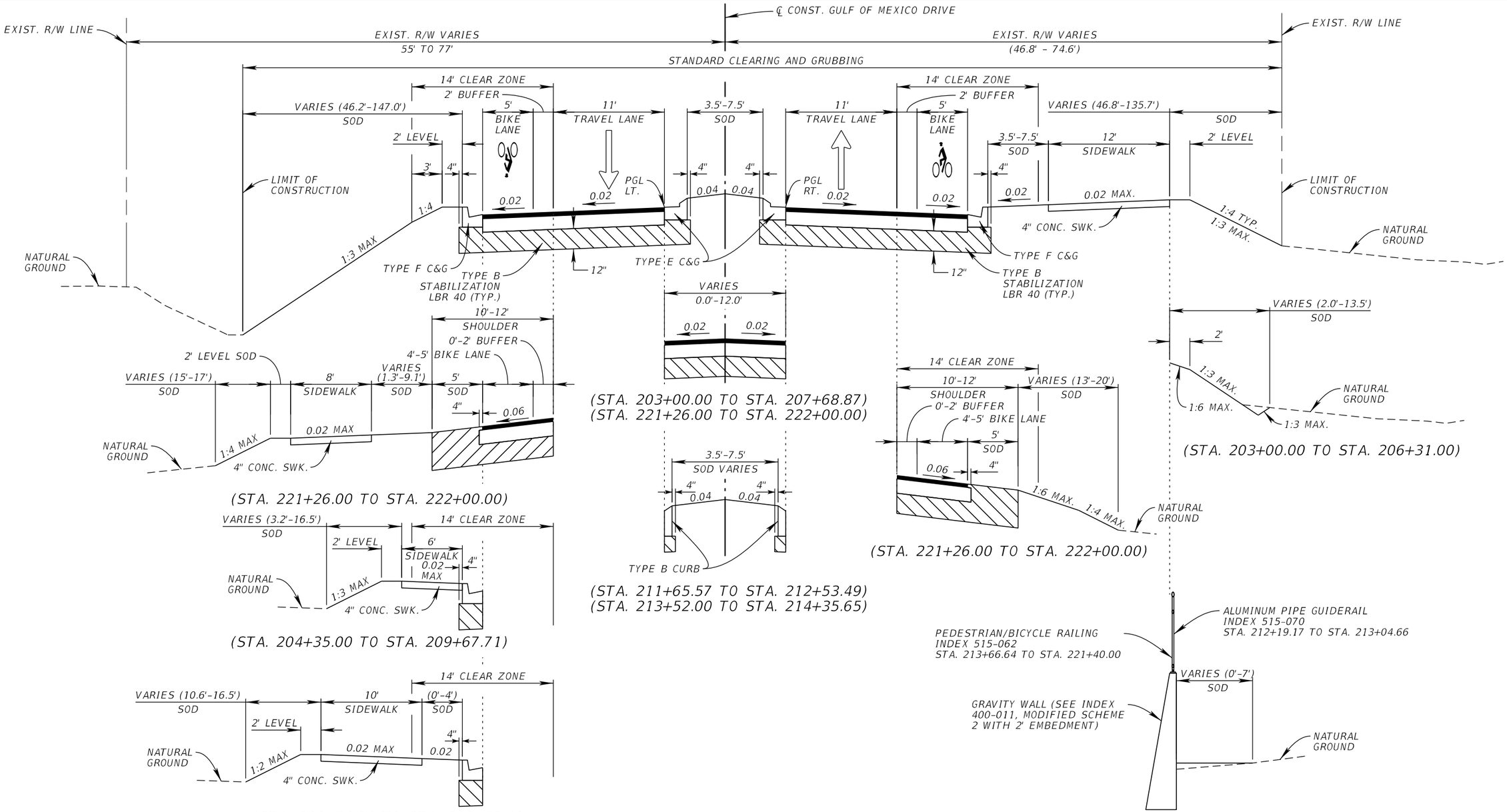
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

DRAINAGE STRUCTURE INFORMATION SHEET (2)

SHEET NO. 7

c:\pw\kh1\d0576597\DRDTRD02.dgn : PIPES SHEET
Seth.Kline 2/12/2026 10:36:37 AM



TRAFFIC DATA

CURRENT YEAR = 2025 AADT = 11500
ESTIMATED OPENING YEAR = 2026 AADT = 11594
ESTIMATED DESIGN YEAR = 2040 AADT = 13000
K = 9 % D = 54.0 % T = 4.5 % (24 HOUR)
DESIGN HOUR T = 5.4 %
DESIGN SPEED = 25 MPH (ROUNDABOUT)
DESIGN/POSTED SPEED = 35 MPH (SR 789)
C3R - SUBURBAN RESIDENTIAL

TYPICAL SECTION
SR 789 (GULF OF MEXICO DRIVE)
STA. 203+00.00 TO STA. 212+53.49
STA. 213+52.00 TO STA. 222+00.00

WIDENING / NEW CONSTRUCTION

OPTIONAL BASE GROUP 6
STRUCTURAL COURSE SP-12.5 (TRAFFIC B) (1.5")
FRICTION COURSE FC-12.5 (TRAFFIC B) (1.5") (PG 76-22)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

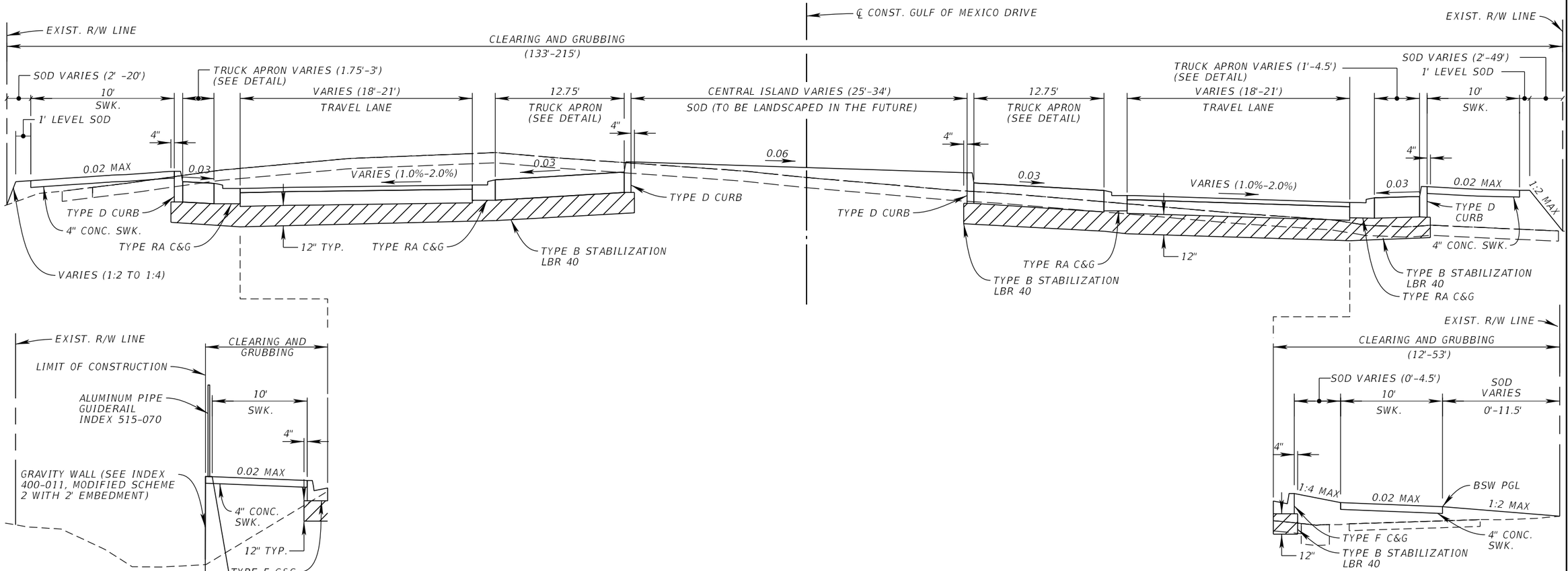
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TYPICAL SECTION

SHEET NO. 8

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



STA. 212+95.51 TO STA. 213+55.06

STA. 212+53.49 TO STA. 212+72.85

TYPICAL SECTION (ROUNDABOUT)
SR 789 (GULF OF MEXICO DRIVE)
STA. 212+53.49 TO STA. 213+52.00

TRAFFIC DATA

CURRENT YEAR = 2025 AADT = 11500
ESTIMATED OPENING YEAR = 2026 AADT = 11594
ESTIMATED DESIGN YEAR = 2040 AADT = 13000
K = 9 % D = 54.0 % T = 4.5 % (24 HOUR)
DESIGN HOUR T = 5.4 %
DESIGN SPEED = 25 MPH (ROUNDABOUT)
C3R - SUBURBAN RESIDENTIAL

WIDENING / NEW CONSTRUCTION

OPTIONAL BASE GROUP 6
STRUCTURAL COURSE SP-12.5 (TRAFFIC B) (1.5")
FRICTION COURSE FC-12.5 (TRAFFIC B) (1.5") (PG 76-22)

MILLING & RESURFACING

MILL EXISTING ASPHALT PAVEMENT (1.5" AVG. DEPTH)
FRICTION COURSE FC-12.5 (TRAFFIC B) (1.5") (PG 76-22)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

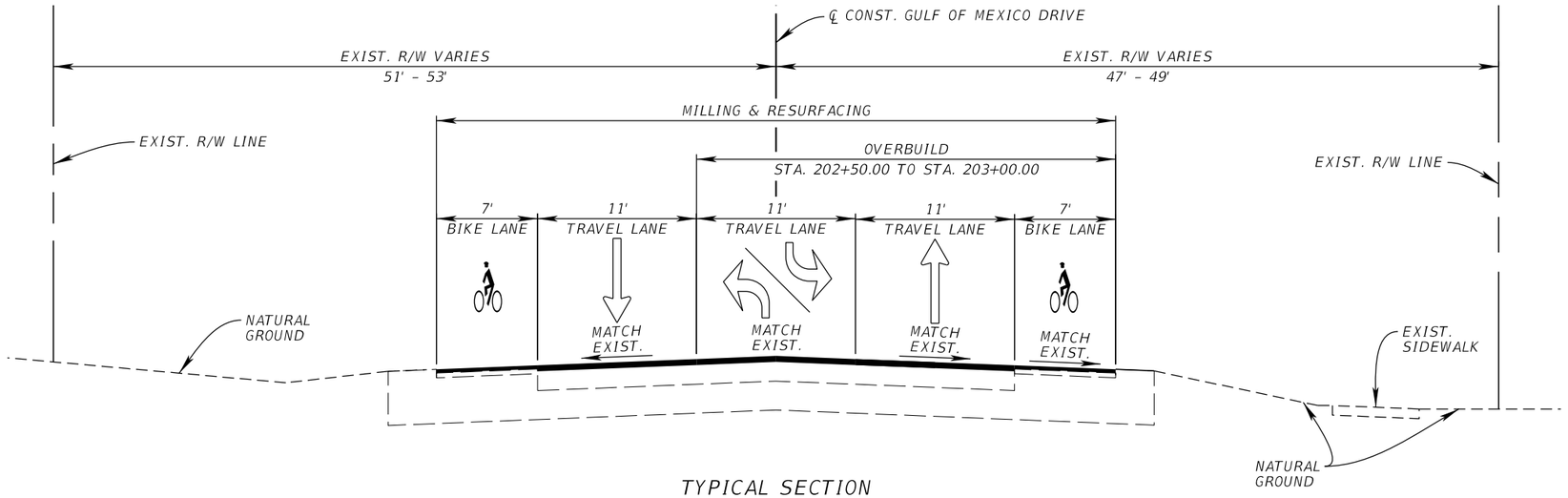
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

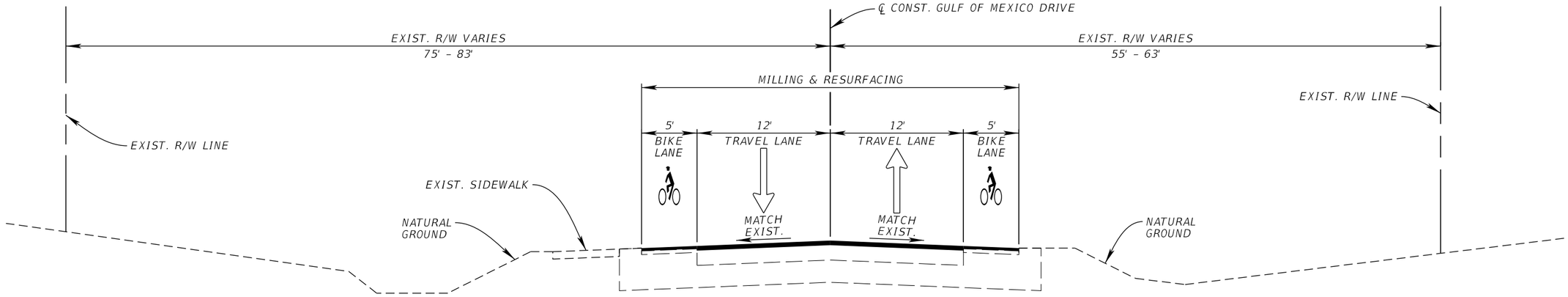
TYPICAL SECTION

SHEET NO. 9

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



TYPICAL SECTION
SR 789 (GULF OF MEXICO DRIVE)
STA. 200+80.00 TO STA. 203+00.00



TYPICAL SECTION
SR 789 (GULF OF MEXICO DRIVE)
STA. 222+00.00 TO STA. 223+25.00

TRAFFIC DATA

CURRENT YEAR = 2025 AADT = 11500
ESTIMATED OPENING YEAR = 2026 AADT = 11594
ESTIMATED DESIGN YEAR = 2040 AADT = 13000
K = 9 % D = 54.0 % T = 4.5 % (24 HOUR)
DESIGN HOUR T = 5.4 %
DESIGN SPEED = 25 MPH (ROUNDABOUT)
DESIGN/POSTED SPEED = 35 MPH (SR 789)
C3R - SUBURBAN RESIDENTIAL

MILLING & RESURFACING

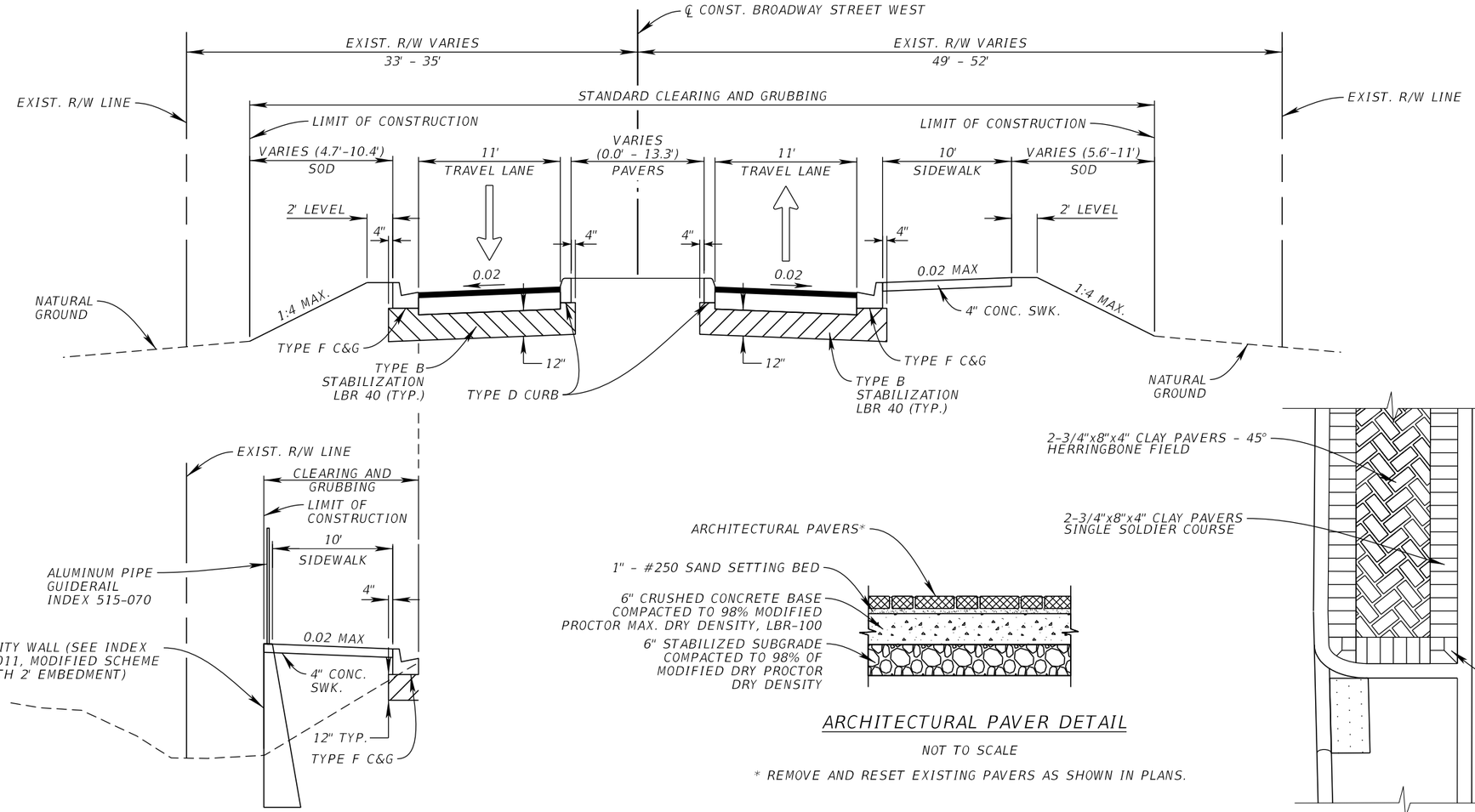
MILL EXISTING ASPHALT PAVEMENT (1.5" AVG. DEPTH)
FRICTION COURSE FC-12.5 (TRAFFIC B) (1.5") (PG 76-22)

OVERBUILD

TYPE SP STRUCTURAL COURSE (TRAFFIC B)

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		10
					SR 789	MANATEE	453730-1-52-01		

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



SEE SR789 TYPICAL SECTION FOR STATION LIMITS

TYPICAL SECTION
BROADWAY STREET WEST
STA. 11+55.86 TO STA. 12+25.43

ARCHITECTURAL PAVER DETAIL

NOT TO SCALE

* REMOVE AND RESET EXISTING PAVERS AS SHOWN IN PLANS.

SPLITTER ISLAND AND MEDIAN ARCHITECTURAL PAVERS PLAN DETAIL

N.T.S.

TRAFFIC DATA

CURRENT YEAR = 2025 AADT = N/A
ESTIMATED OPENING YEAR = 2026 AADT = N/A
ESTIMATED DESIGN YEAR = 2040 AADT = N/A
K = N/A D = N/A T = N/A (24 HOUR)
DESIGN HOUR T = N/A
DESIGN/POSTED SPEED = 20 MPH
C3R - SUBURBAN RESIDENTIAL

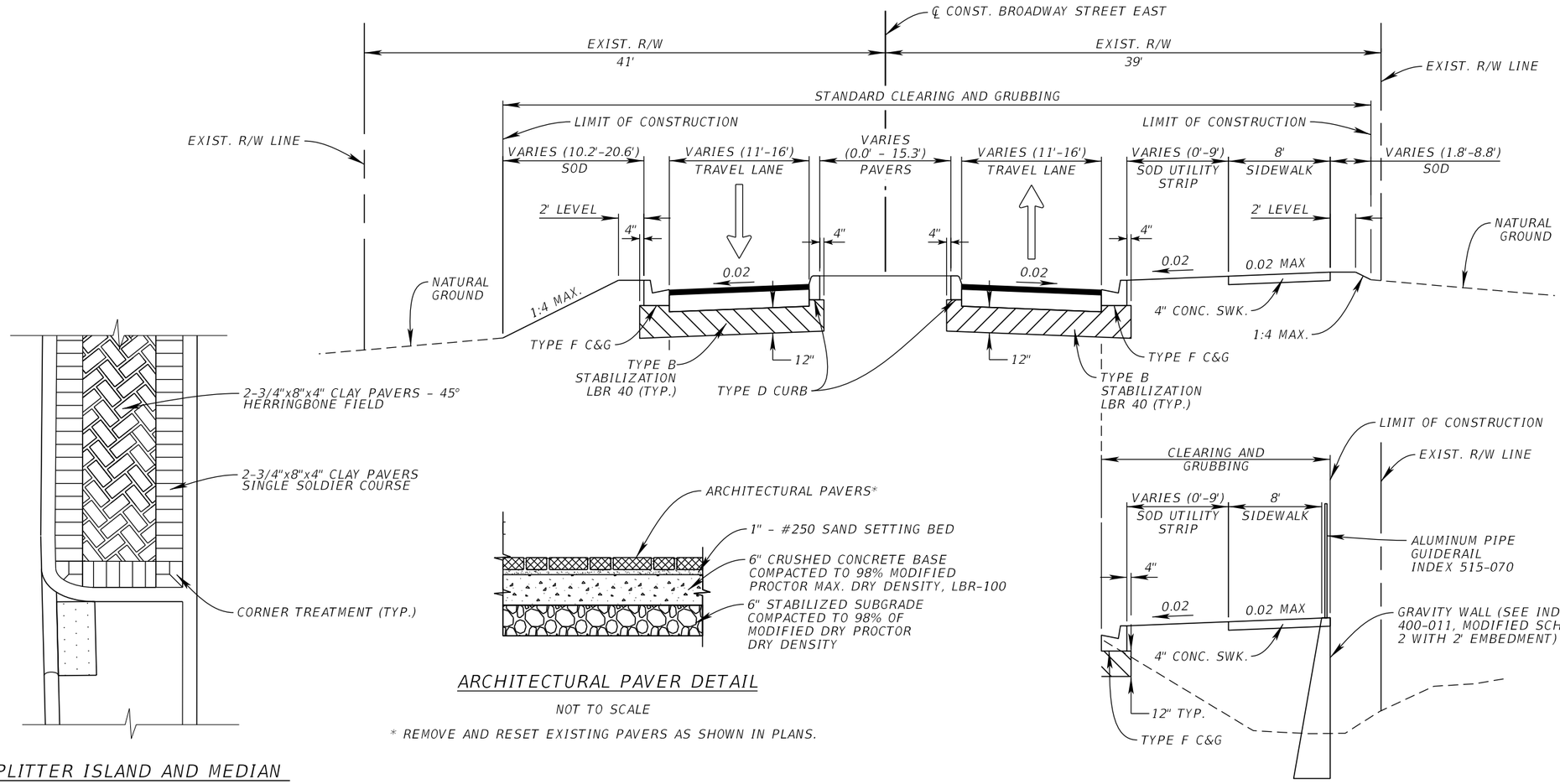
WIDENING / NEW CONSTRUCTION

OPTIONAL BASE GROUP 6
STRUCTURAL COURSE SP-12.5 (TRAFFIC B) (1.5")
FRICTION COURSE FC-12.5 (TRAFFIC B) (1.5") (PG 76-22)

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		11
					SR 789	MANATEE	453730-1-52-01		

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SPLITTER ISLAND AND MEDIAN ARCHITECTURAL PAVERS PLAN DETAIL

N.T.S.

ARCHITECTURAL PAVER DETAIL

NOT TO SCALE

* REMOVE AND RESET EXISTING PAVERS AS SHOWN IN PLANS.

SEE SR 789 TYPICAL SECTION FOR STATION LIMITS

TYPICAL SECTION
BROADWAY STREET EAST
STA. 20+49.45 TO STA. 21+74.33

TRAFFIC DATA

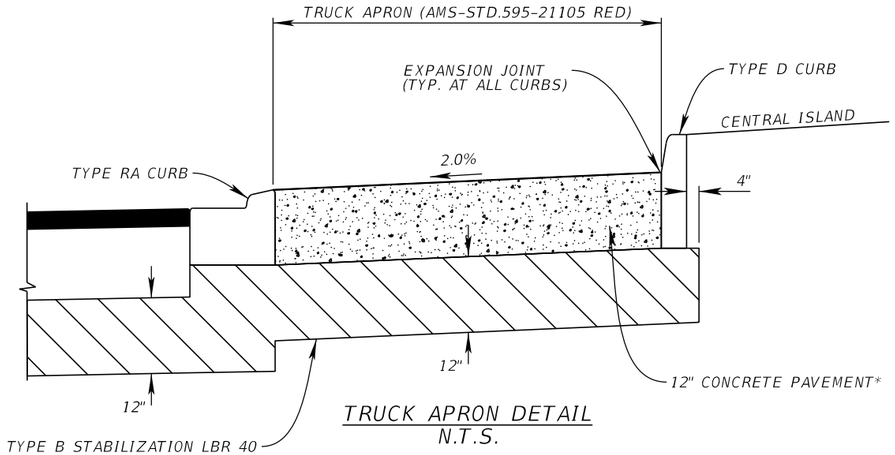
CURRENT YEAR = 2025 AADT = N/A
ESTIMATED OPENING YEAR = 2026 AADT = N/A
ESTIMATED DESIGN YEAR = 2040 AADT = N/A
K = N/A D = N/A T = N/A (24 HOUR)
DESIGN HOUR T = N/A
DESIGN/POSTED SPEED = 20 MPH
C3R - SUBURBAN RESIDENTIAL

WIDENING / NEW CONSTRUCTION

OPTIONAL BASE GROUP 6
STRUCTURAL COURSE SP-12.5 (TRAFFIC B) (1.5")
FRICTION COURSE FC-12.5 (TRAFFIC B) (1.5") (PG 76-22)

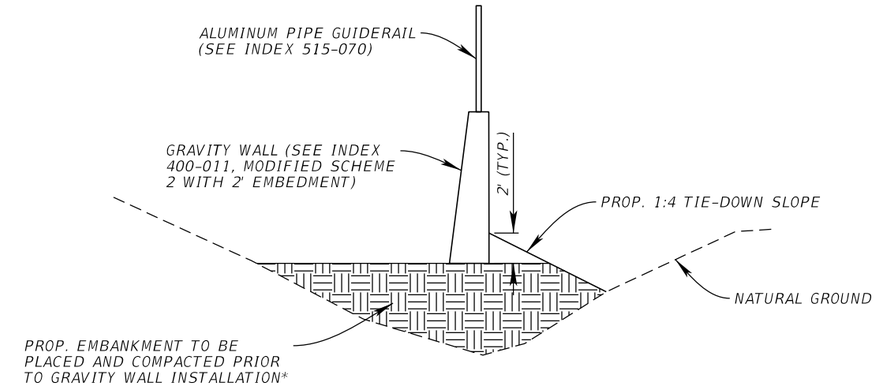
REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		12
					SR 789	MANATEE	453730-1-52-01		

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



TRUCK APRON DETAIL
N.T.S.

* CONTRACTOR SHOULD USE HIGH-EARLY STRENGTH CONCRETE AND NOT OPEN TRUCK APRON TO TRAFFIC UNTIL CONCRETE REACHES 2200 PSI COMPRESSIVE STRENGTH.



GRAVITY WALL DETAIL
N.T.S.

* COST OF COMPACTION UNDER THE PROPOSED GRAVITY WALL IS INCIDENTAL TO THE COST OF THE WALL.

OVERBUILD DETAILS

LOCATION		EXIST. SLOPE (%)	PROPOSED SLOPE (%)	MAX. DEPTH OF OVERBUILD (IN.)	WIDTH OF OVERBUILD (FT.)	AVG. DEPTH OF OVERBUILD (IN.)	AREA OF OVERBUILD (SQ. FT.)
STATION	LANE						
202+50.00	CENTER, NORTHBOUND, BIKE LANE	(-)0.2 (CENTER LEFT) (-)2.0 (NB LANE) (-) 6.0 (BIKE LANE)	EXIST.	0.0	28.7	0.0	0.0
202+75.00	CENTER, NORTHBOUND, BIKE LANE	(-)0.2 (CENTER LEFT) (-)2.0 (NB LANE) (-) 6.0 (BIKE LANE)	(+)2.0 (CENTER LEFT) (-)2.0 (NB LANE) (-) 2.0 (BIKE LANE)	1.5	28.7	1.0	2.4
203+00.00	CENTER, NORTHBOUND, BIKE LANE	(-)0.1 (CENTER LEFT) (-)2.0 (NB LANE) (-) 6.0 (BIKE LANE)	(+)2.0 (CENTER LEFT) (-)2.0 (NB LANE) (-) 2.0 (BIKE LANE)	3.0	28.7	2.1	4.8

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

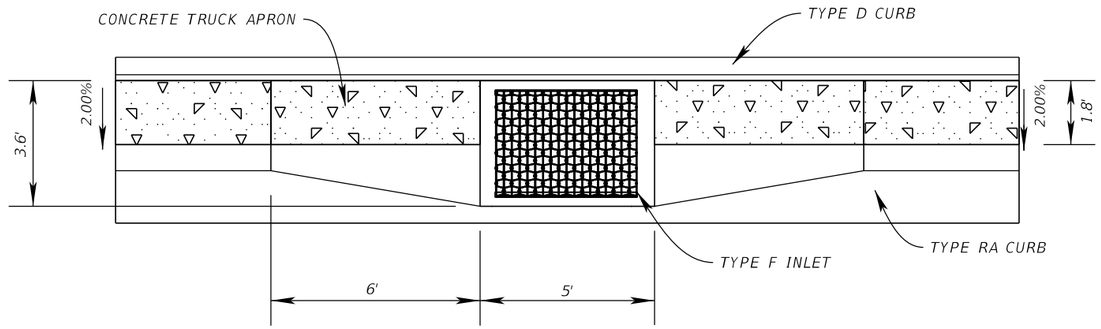
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

SPECIAL DETAILS

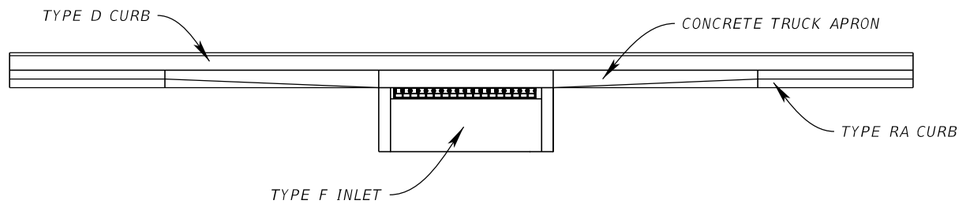
SHEET NO. 13

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

TOP VIEW



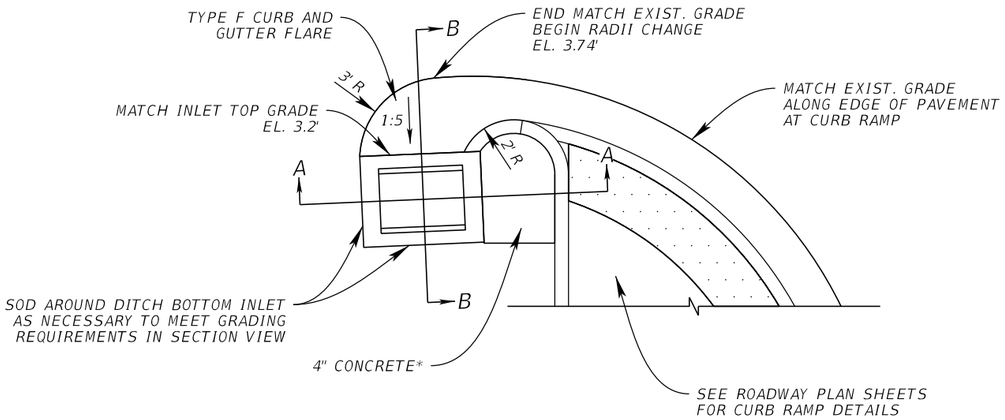
FRONT VIEW



APRON CURB INLET DETAIL
N.T.S.

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SPECIAL DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		14
					SR 789	MANATEE	453730-1-52-01		

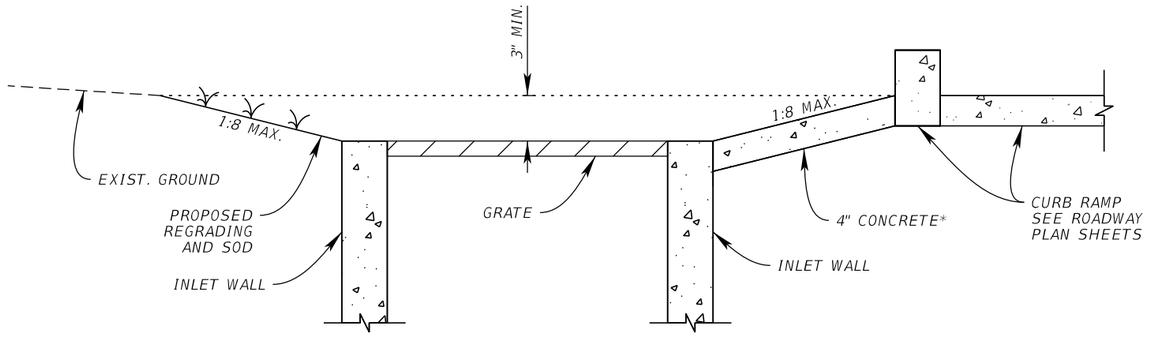
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



S-11 PLAN VIEW

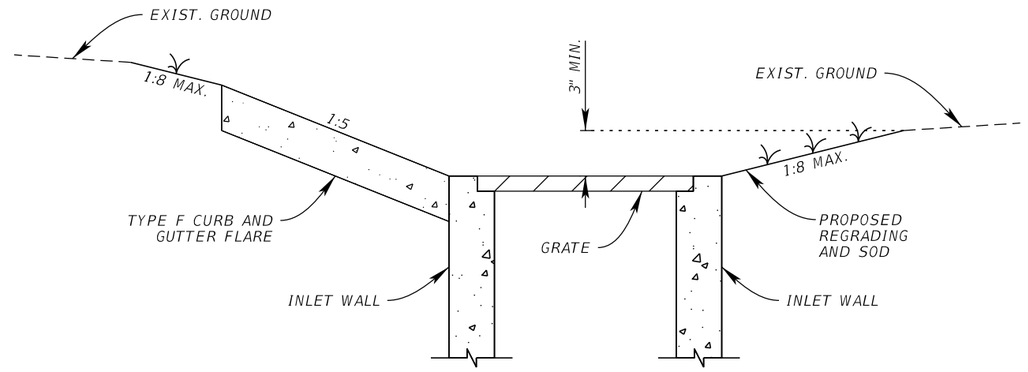
N.T.S.

* COST OF 4" CONCRETE ADJACENT TO DRAINAGE STRUCTURE IS INCIDENTAL TO THE COST OF THE DITCH BOTTOM INLET.



S-11 SECTION A-A

N.T.S.



S-11 SECTION B-B

N.T.S.

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SPECIAL DETAILS	15
					SR 789	MANATEE	453730-1-52-01		

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

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DESIGNATION	NORTHING	EASTING	ELEVATION	STATION***	OFFSET
CP #1	1128928.00	433706.06	4.51'	94+07.48 R1	17.35 RT.
CP #2	1128366.21	433735.61	3.57'	99+70.70 R1	25.77 LT.
CP #3	1127964.61	433744.94	5.96'	103+66.82 R1	38.09 RT.
CP #4	1127615.70	433970.31	3.37'	107+76.77 R1	27.41 LT.
CP #5	1127207.35	434293.34	3.04'	113+05.05 R2	28.54 LT.
BM #1	1128946.23	433740.13		93+87.85 R1	20.03 LT.
BM #2	1128947.71	433700.67		93+88.02 R1	26.43 RT.
BM #3	1128925.96	433739.33		94+08.12 R1	15.97 LT.
BM #4	1128917.54	433699.09		94+18.23 R1	23.88 RT.
BM #5	1128586.96	433737.80		97+46.89 R1	28.65 LT.
BM #6	1128577.71	433686.80		97+58.27 R1	21.91 RT.
BM #7	1128513.03	433736.95		98+21.45 R1	30.51 LT.
BM #8	1128522.74	433684.05		98+12.93 R1	22.60 RT.
BM #9	1127451.51	434185.14		110+20.50 R2	108.72 LT.
BM #10	1127422.30	434148.52		110+19.69 R2	61.88 LT.
BM #11	1127383.70	434100.13		110+18.61 R2	0.00 RT.
BM #12	1127370.05	434083.00		110+43.22 R1	21.91 RT.
BM #13	1127352.23	434291.86		111+65.02 R2	127.72 LT.
BM #14	1127309.18	434244.63		111+68.11 R2	63.89 LT.
BM #15	1127266.09	434197.35		111+71.19 R2	0.01 RT.
BM #16	1127203.81	434129.02		111+71.23 R2	92.46 RT.
BM #17	1127088.24	434506.32		115+13.48 R2	99.64 LT.
BM #18	1127036.19	434499.91		115+46.59 R2	58.97 LT.
BM #19	1126960.73	434490.63		115+94.58 R2	0.01 LT.
BM #20	1126927.65	434486.56		116+15.63 R2	33.32 RT.

NOTES:

*BASELINE AND CENTERLINE ARE GEOMETRICALLY IDENTICAL, STATIONS ARE REVERSED FROM SOUTH TO NORTH, PLEASE UTILIZE STATION EQUATIONS SHOWN TO RELATE ℄ CONST. TO ℄ SURVEY

**BASELINE STATIONS ARE ON WEST SIDE OF ALIGNMENT, CENTERLINE STATIONS ARE ON EAST SIDE.

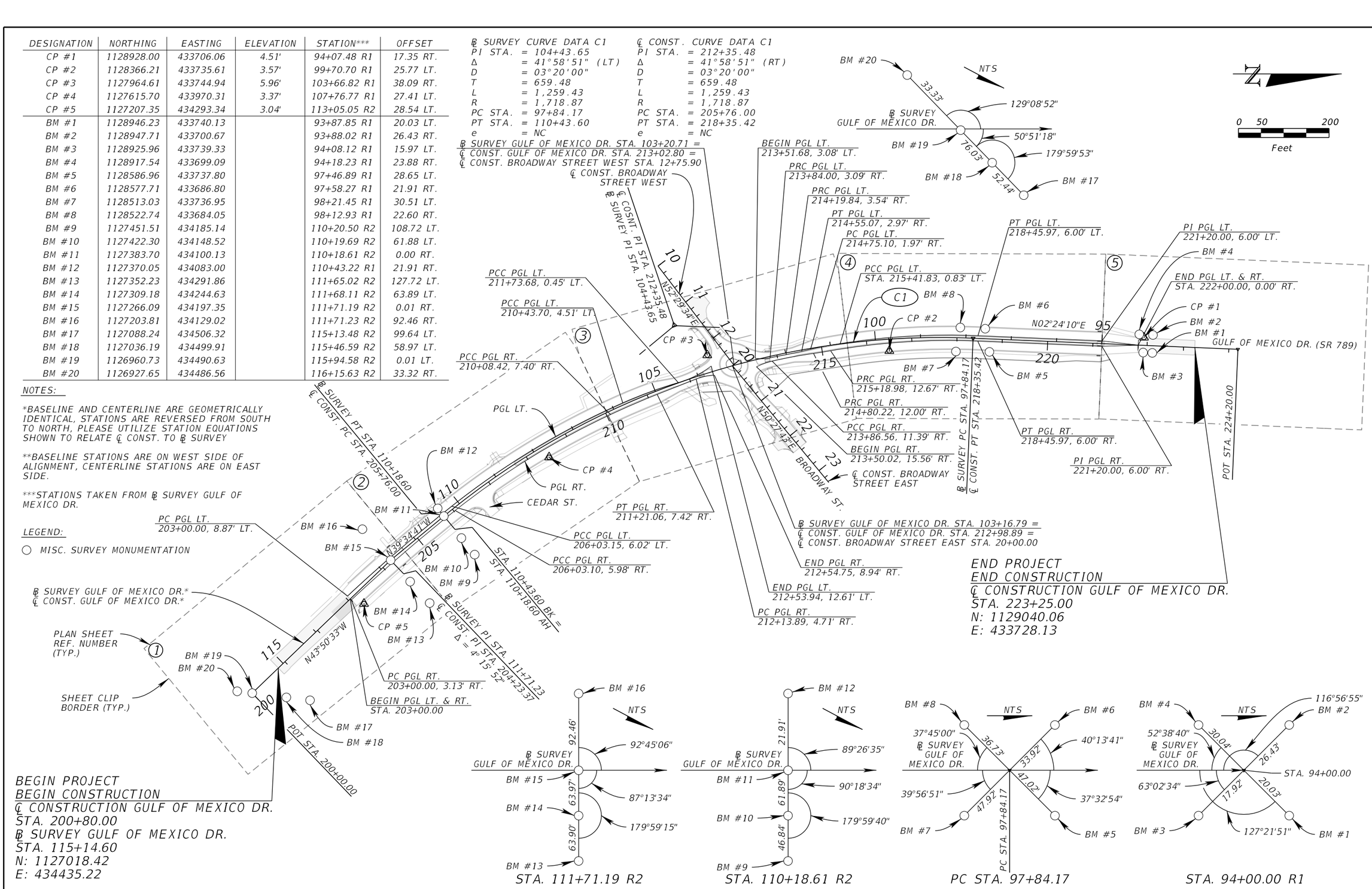
***STATIONS TAKEN FROM ℄ SURVEY GULF OF MEXICO DR.

LEGEND:

○ MISC. SURVEY MONUMENTATION

℄ SURVEY CURVE DATA C1
PI STA. = 104+43.65
Δ = 41°58'51" (LT)
D = 03°20'00"
T = 659.48
L = 1,259.43
R = 1,718.87
PC STA. = 97+84.17
PT STA. = 110+43.60
e = NC

℄ CONST. CURVE DATA C1
PI STA. = 212+35.48
Δ = 41°58'51" (RT)
D = 03°20'00"
T = 659.48
L = 1,259.43
R = 1,718.87
PC STA. = 205+76.00
PT STA. = 218+35.42
e = NC



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

PROJECT LAYOUT AND CONTROL

SHEET NO. 16

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

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ROADWAY GENERAL NOTES

1. BENCH MARK DATUM FOR ALL BEARINGS ARE NAD 83 / 11 ADJUSTMENT.
   BENCH MARK DATUM FOR ALL ELEVATIONS ARE BASED ON NAVD 1988.

2. USE CAUTION DURING EXCAVATION TO ENSURE EXISTING DRAINAGE STRUCTURES TO REMAIN AND UTILITIES ARE NOT DAMAGED. EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED IN THESE PLANS.

3. SAW CUT EXISTING PAVEMENT AS NECESSARY TO PROVIDE A UNIFORM CONSTRUCTION JOINT FOR ALL AREAS REQUIRING WIDENING OR PAVEMENT RECONSTRUCTION. THE COST OF SAWCUTTING A CLEAN CONSTRUCTION JOINT WILL BE INCIDENTAL TO THE ASSOCIATIED WORK.

4. 4" CONCRETE DITCH PAVEMENT SHALL INCLUDE BRICKS TO DISSIPATE ENERGY PER STANDARD PLANS INDEX 425-061.

5. ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:

   RUSSELL P. HYATT, P.S.M.
   P.S.M. NO: 5303
   HYATT SURVEY SERVICES, INC.
   2012 LENA ROAD, BRADENTON, FL 34211

6. LANDSCAPING FEATURES WILL BE INSTALLED POST-CONSTRUCTION BY THE LOCAL AGENCY VIA AN FDOT PERMIT.

PAY ITEM NOTES

1. PAY ITEM 110-7-1 - INCLUDES THE COST INCURRED BY THE CONTRACTOR FOR MODIFICATION OR REMOVAL OF EXISTING MAILBOXES. CONTRACTOR TO COORDINATE DIRECTLY WITH PROPERTY OWNERS ON POTENTIALLY RESETTING MAILBOXES.

2. PAY ITEM 285-704 - THE COST OF SHELL ROCK BASE IS INCIDENTAL TO THE COST OF OPTIONAL BASE GROUP 04.

3. PAY ITEM 350-30-13 - THE COST OF HIGH-EARLY COMPRESSIVE STRENGTH CONCRETE IS INCIDENTAL TO THE COST OF THE CONCRETE APRON.

4. PAY ITEM 400-0-11 - THE COST OF THE CONCRETE AND REINFORCING STEEL DETAILED ON THE MODIFICATIONS TO STANDARD PLANS SHEET IS INCIDENTAL TO THE COST OF GRAVITY WALL.

5. PAY ITEM 425-1531 - THE COST OF THE CONCRETE WALL ASSOCIATED WITH THE BACK OF SIDEWALK INLETS IS INCIDENTAL TO THE COST OF THE INLET.

6. PAY ITEM 524-1-29 - INCLUDES THE COST OF BRICKS.

UTILITY ADJUSTMENT NOTES

1. THE LOCATION(S) 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.

2. COORDINATE WITH TOWN OF LONGBOAT UTILITIES, AS REQUIRED, TO DETERMINE VALVES TO SHUT DOWN AND THE CITY'S PREFERRED PLAN TO MAINTAIN WATER SERVICE.

3. EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.

4. UTILITY/AGENCY OWNER:

COMPANY	CONTACT	TELEPHONE NUMBERS
AT&T DISTRIBUTION TCA	MARTIN SHAW	(610) 328-6465 X 242
COMCAST	KEVIN MURPHY	(941) 356-1489
FLORIDA POWER & LIGHT - DISTRIBUTION	BRIAN GARVER	(941) 723-4442
FRONTIER FLORIDA	DENISE HUTTON	(941) 906-6722
HOTWIRE COMMUNICATIONS	WALTER SANCHO-DAVILA	(954_ 699-0900
LONGBOAT KEY UTILITIES	CHARLIE MOPPS	(941) 361-6411 X 2226
MCI METRO ACCESS TRANSMISSION SERVICES	MICHAEL KROL	(813) 410-4803
TECO PEOPLES GAS SYSTEM	ALEX MCFARLANE	(813) 275-3762
VERIZON WIRELESS	CARMELA STARR	(813) 928-4864

CONTAMINATION GENERAL NOTES

1. COORDINATE PERMITTING AND FIELD ACTIVITIES RELATED TO NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEMS (NPDES) DEWATERING THROUGH THE PROJECT ENGINEER, THE DISTRICT CONTAMINATION IMPACT COORDINATOR, AND THE CONTAMINATION ASSESSMENT & REMEDIATION CONTRACTOR DUE TO COMPLIANCE REQUIREMENTS FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND WATER MANAGEMENT DISTRICT. REFER TO THE PROJECT'S CONTAMINATION MEMORANDUM.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

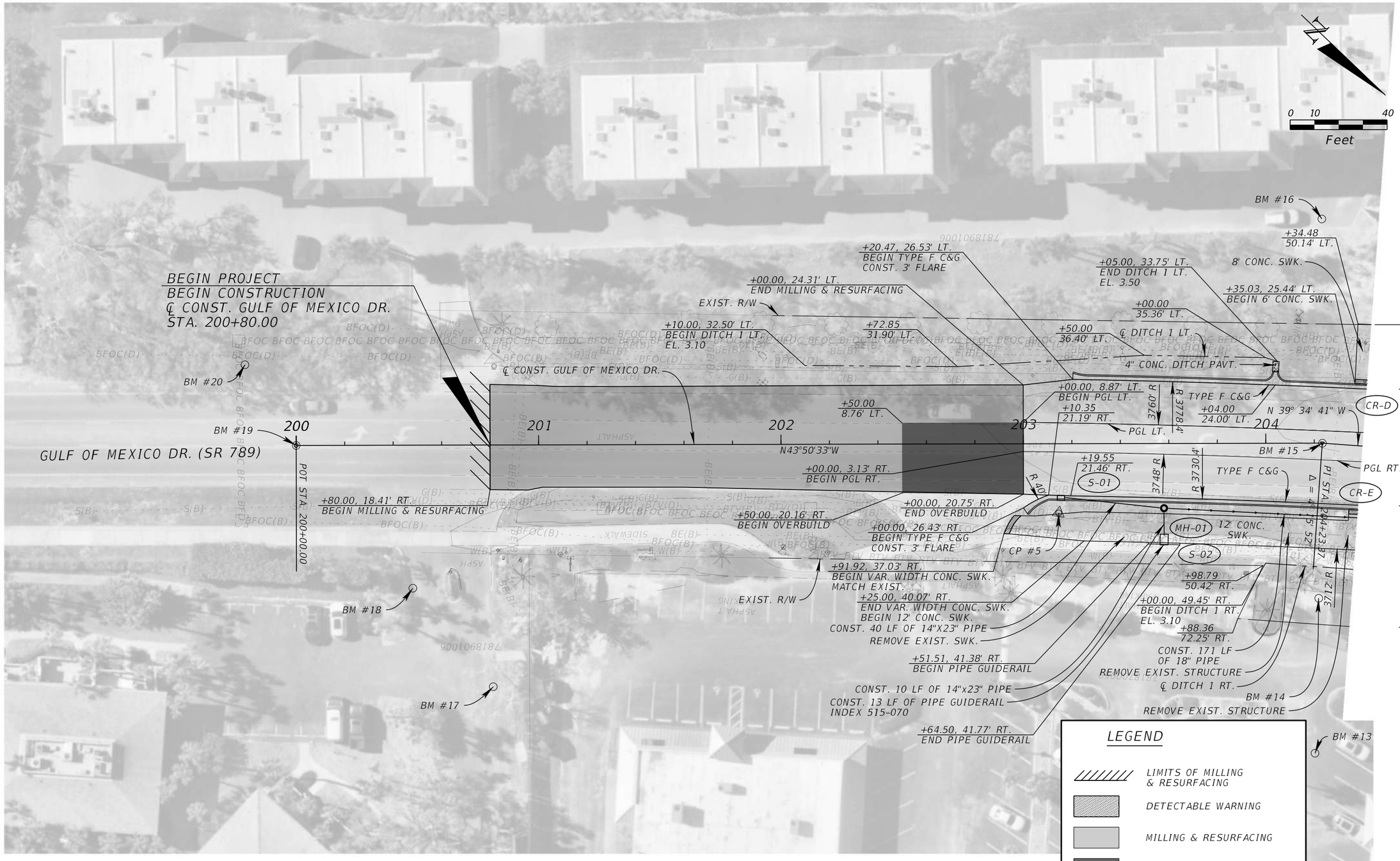
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

GENERAL NOTES

SHEET NO. 17

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

PLAN SHEET (1)

SHEET NO. 18

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S-03
STA. 206+25.00 (22.40 LT.)
CLOSED FLUME TYPE 1
EL. 5.66 (EOP)
INDEX NO. 425-061

S-05
STA. 206+81.23 (54.42 RT.)
CLOSED FLUME TYPE 1
EL. 4.15 (EOP)
INDEX NO. 425-061

S-07
STA. 207+81.00 (23.31 LT.)
CLOSED FLUME TYPE 1
EL. 6.14
INDEX NO. 425-061

0 10 40
Feet

GULF OF MEXICO DR. (SR 789)

8' CONC. SWK.
+14.15 36.55' LT.
+42.48 50.32' LT.
+09.15 36.54' LT.
+42.89 31.63' LT.
+01.11 32.48' LT.
+59.13 36.94' LT.
+59.22 31.94' LT.
+93.75 36.08' LT.
+30.15 36.57' LT.
+51.10 36.50' LT.
+67.10 36.37' LT.
+08.45 36.00' LT.
+13.34 36.03' LT.
+21.37 31.95' LT.
EXIST. STRUCTURE TO REMAIN
4" CONC. DITCH PAVT.
6' CONC. SWK.
6" CONC. DRWY.
+35.17 45.48' LT.
+35.09 35.48' LT.
+30.19 35.53' LT.
+22.26 31.53' LT.
+50.76 45.42' LT.
+50.77 35.42' LT.
+55.67 35.44' LT.
R 1768.87'
EXIST. STRUCTURE TO REMAIN CONTRACTOR TO GRADE SLOPE AROUND EXIST. MES
4" CONC. DITCH PAVT.
EXIST. R/W
+18.55 60.58' LT.
+18.56 50.58' LT.
+16.45 60.44' LT.
+64.63 52.24' LT. EL. 6.25
+65.24 58.20' LT. EL. 6.15
EXIST. STRUCTURE TO REMAIN
+71.52, 28.18' LT. BEGIN REMOVAL EXIST. GUARDRAIL
+62.40 30.73' LT. EL. 7.21
6" CONC. SWK.
REMOVE EXIST. GUARDRAIL
+67.71 24.71' LT.
+80.82 23.31' LT.
+74.90 5.34' LT.
+42.89 16' FT.
+63.57 31.38' LT.
+25.33 23.93' LT.
+03.15 6.02' LT.
+01.10 15' FT.
+03.10 5.98' RT.
+59.00 16' FT.
+22.17 16' FT.
BM #12
BM #11
5'x8' CONC. DEPLOYMENT PAD
℄ CONST. GULF OF MEXICO DR.
CURVE CL_GMD1
R 6'
TYPE F C&G
TYPE E C&G
PGL LT.
PGL RT.
1737' R
3760' R
205
206
207
208
209
210
N39°34'41"W
57.4'
48'
50.2'
26.6'
18'
12'
29.5'

CONST. 18" PIPE
MH-02
TYPE F C&G
CONST. 82 LF OF 18" PIPE
3748' R
PC STA. 205+76.00
+03.02 23.98' RT.
+30.59 24.09' RT.
MH-03
R 25'
CONST. 90 LF 24" PIPE
CR-F
CR-L
+06.85 24.41' RT.
CONST. 54 LF 24" PIPE
S-06
+74.85 6.66' RT.
MH-04
CONST. 21 LF OF PIPE GUIDERAIL INDEX 515-070
+10.30 43.45' RT.
1725' R
TYPE E C&G
MH-05
PGL RT.
CP #4
G-14
12' CONC. SWK.
+92.55 45.36' RT.
+92.43 56.86' RT.
+93.26 69.05' RT.
R 1663.87
6" CONC. DRWY.
PROP. LICENSE AGREEMENT
A 5' CONC. SWK.
+56.20 48.39' RT. EL. 4.90
S-04
S-05
S-08
+90.78 40.99' RT.
+11.94 41.92' RT.
+90.75 50.81' RT.
+11.00 55.00' RT.
+40.02 55.03' RT.
+97.00, 53.50' RT. BEGIN DITCH 2 RT. EL. 3.80
+50.00 58.00' RT.
+72.00 43.82' RT.
+72.00 58.09' RT. EL. 3.60
+82.82 43.84' RT. END PIPE GUIDERAIL
+38.40 54.88' RT.
+79.30 45.02' RT.
+00.00, 57.00' RT. END DITCH 2 RT. EL. 3.80
EXIST. R/W
R 1687
CONST. 123 LF 24" PIPE
REMOVE EXIST. SWK.
CONST. 128 LF 24" PIPE
+61.27 43.76' RT. BEGIN PIPE GUIDERAIL
+02.93 42.47' RT.
BM #10
℄ DITCH 1 RT.
+08.87 42.94' RT. BEGIN PIPE GUIDERAIL
REMOVE EXIST. SWK.
CONST. 22 LF OF PIPE GUIDERAIL INDEX 515-070
+31.41 42.01' RT. END PIPE GUIDERAIL
EXIST. R/W
+20.00 53.43' RT.
+29.71 52.91' RT.
+45.00 55.11' RT. END DITCH 1 RT. EL. 4.00
BM #9
+42.35 73.19' RT.
+55.29 66.00' RT. MATCH EXIST.
+56.43 54.78' RT.
SAWCUT
4" CONC. DITCH PAVT.
EXIST. R/W
CEDAR ST.
+91.67 64.41' RT.
+94.46 70.45' RT.
+81.04 50.84' RT. EL. 4.61
+83.85 64.80' RT. END SIDESTREET CONST. MATCH EXIST.
℄ DITCH 2 RT.
4" CONC. DITCH PAVT.
EXIST. R/W

A +48.33 31.18 RT. EL. 5.50
B +88.19 32.18 RT. EL. 5.62
C CONST. 10 LF OF 14"X23" PIPE
D CONST. 10 LF OF 14"X23" PIPE
E REMOVE EXIST. STRUCTURE

CURVE DATA CL_GMD1
PI STA. = 212+35.48
Δ = 41° 58' 51" (RT)
D = 3° 20' 00"
T = 659.48
L = 1,259.43
R = 1,718.87
PC STA. = 205+76.00
PT STA. = 218+35.42
e = NC

LEGEND
DETECTABLE WARNING
RESET PAVER DRIVEWAY
PROPOSED MAILBOX

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

ENGINEER OF RECORD
GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

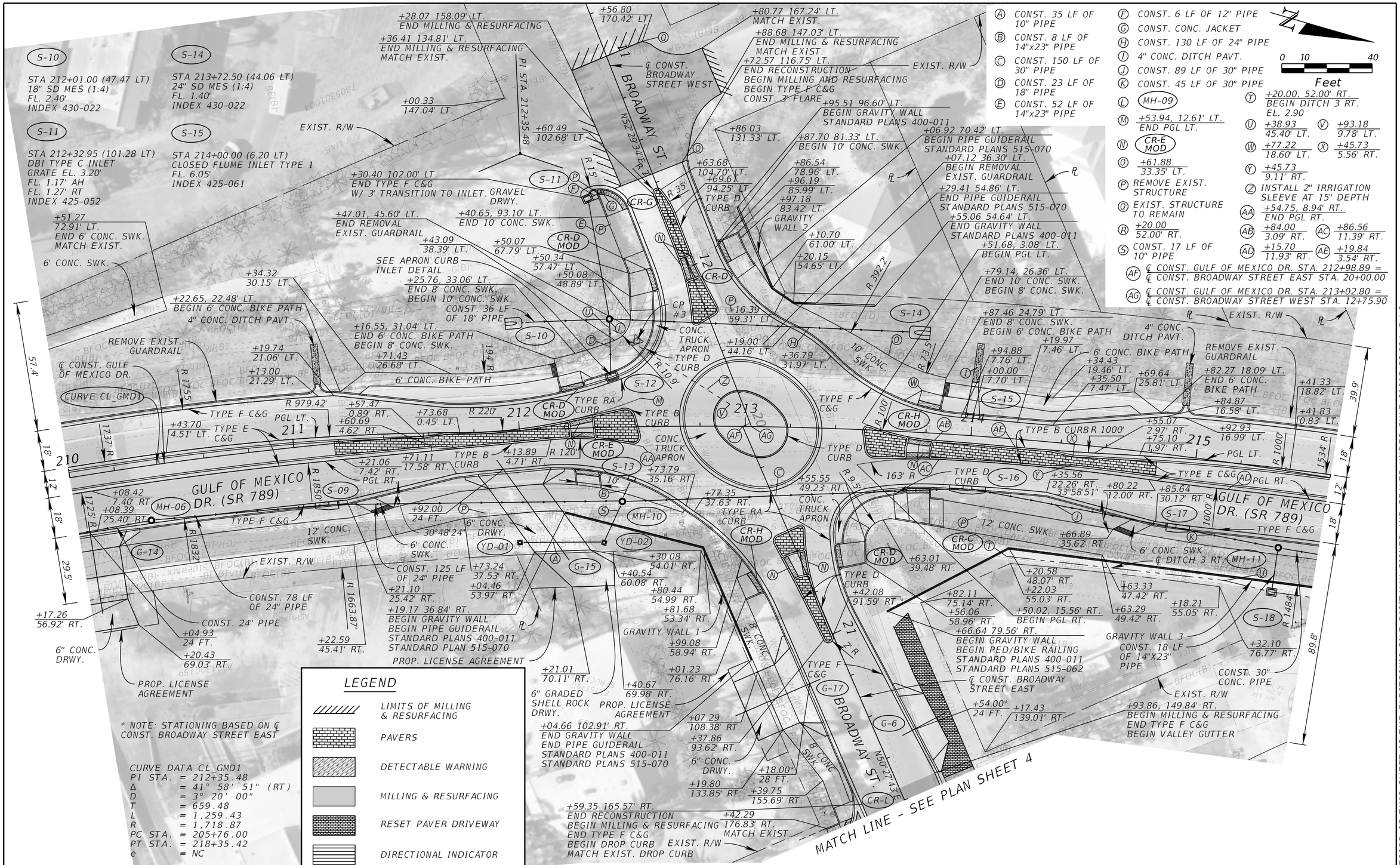
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

PLAN SHEET (2)

SHEET NO. 19

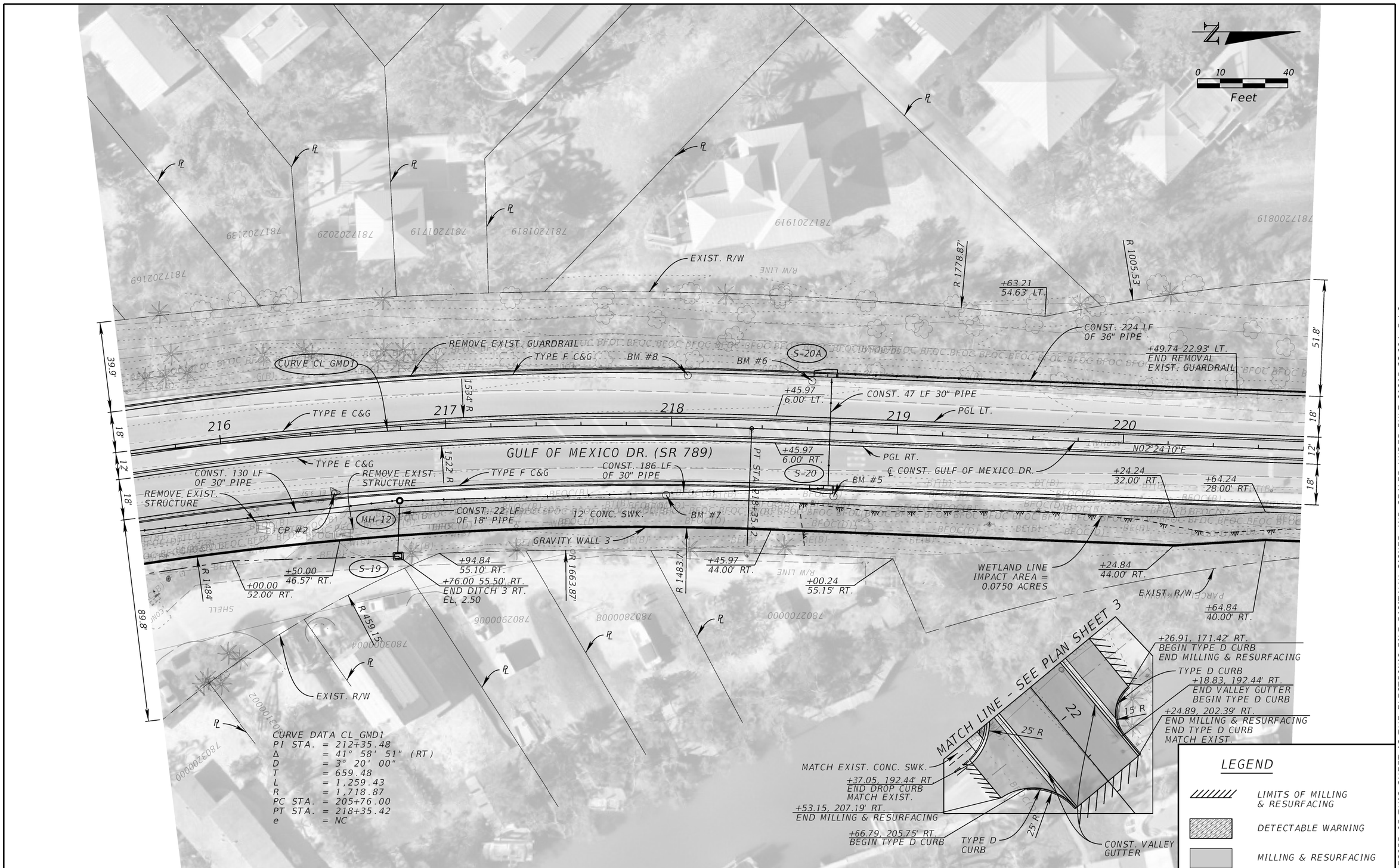
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN SHEET (3)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		20
					SR 789	MANATEE	453730-1-52-01		

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Scott.Zyra 3/20/2026 8:32:10 AM



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

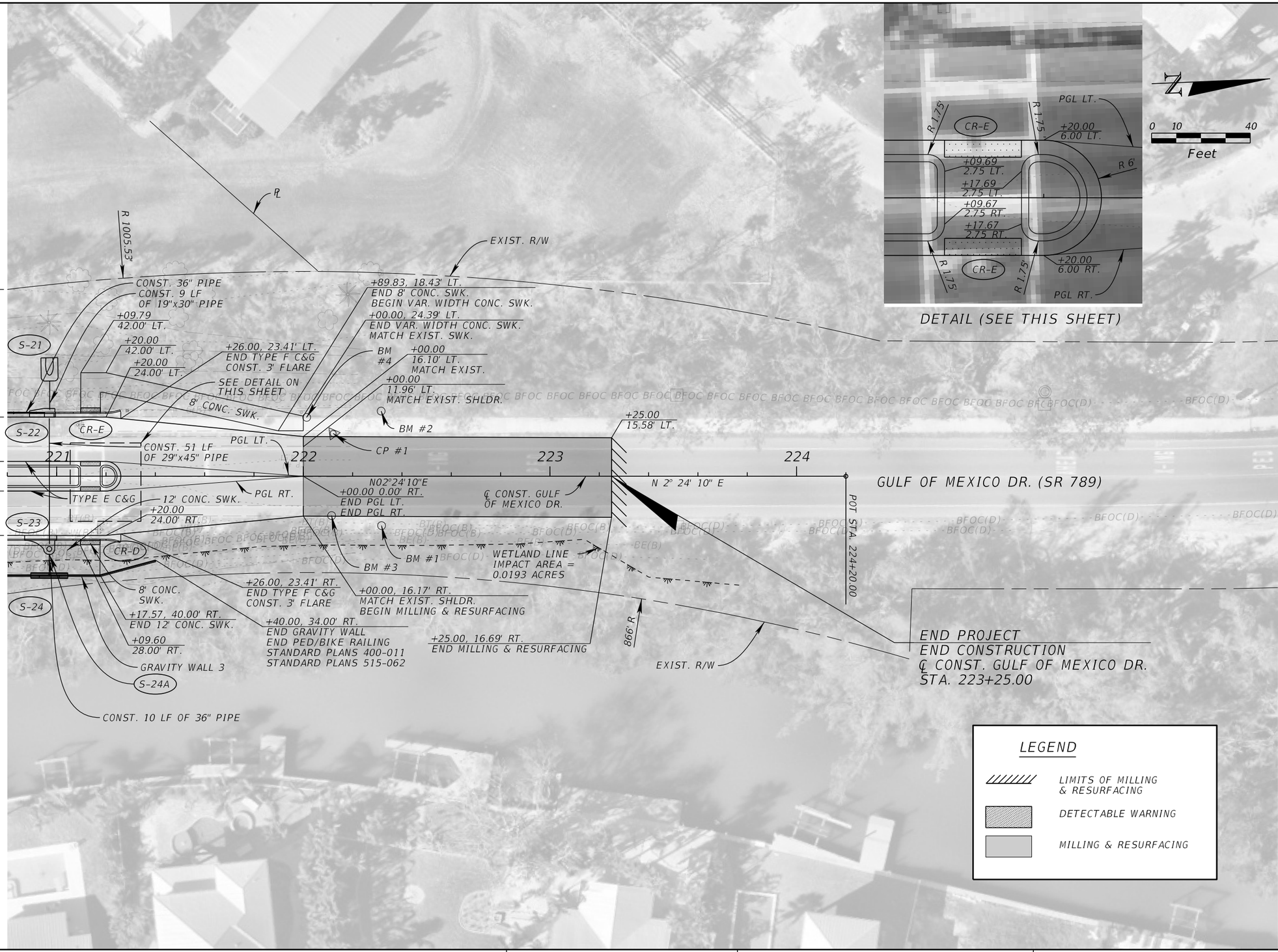
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

PLAN SHEET (4)

SHEET NO. 21

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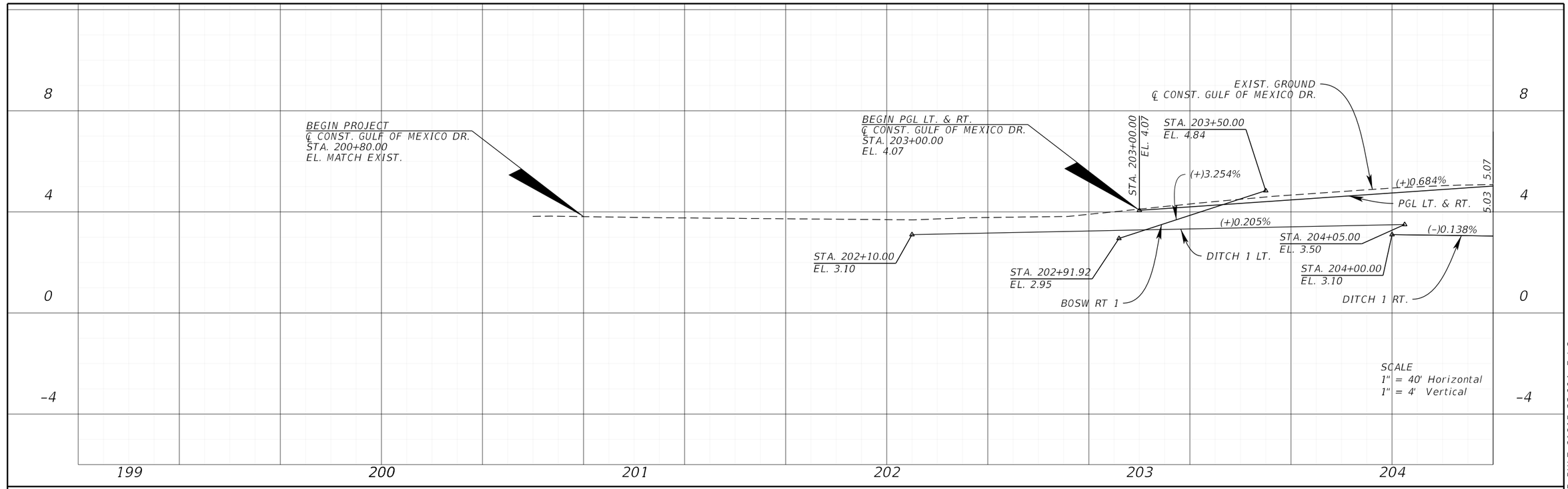
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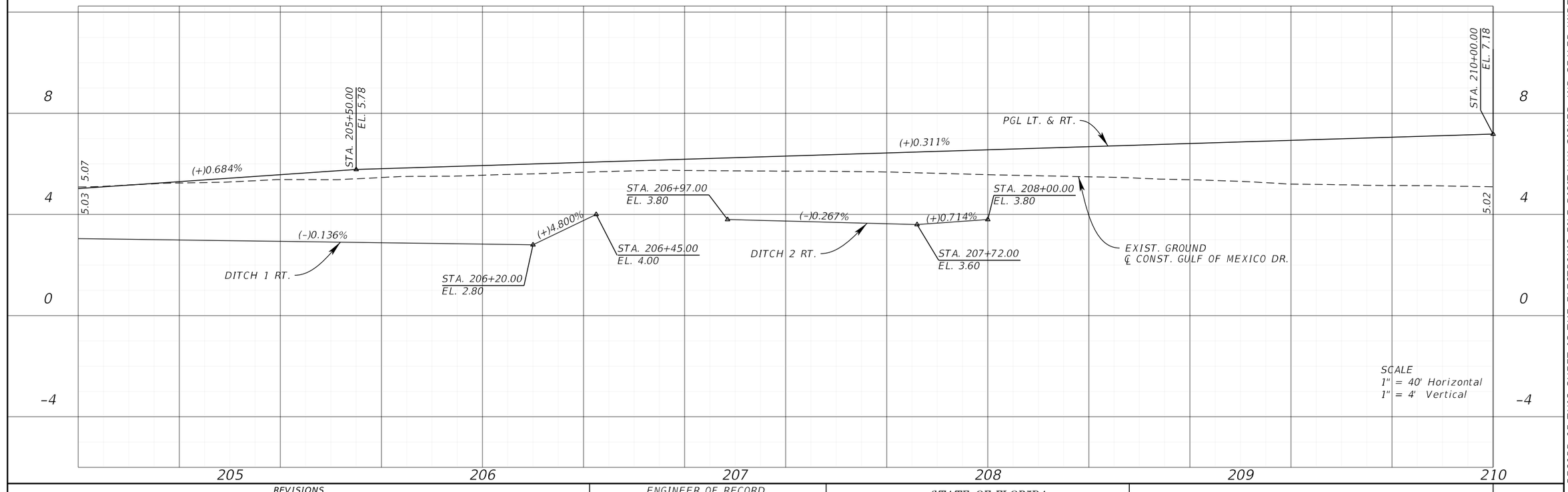


REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PLAN SHEET (5)	22
					SR 789	MANATEE	453730-1-52-01		

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

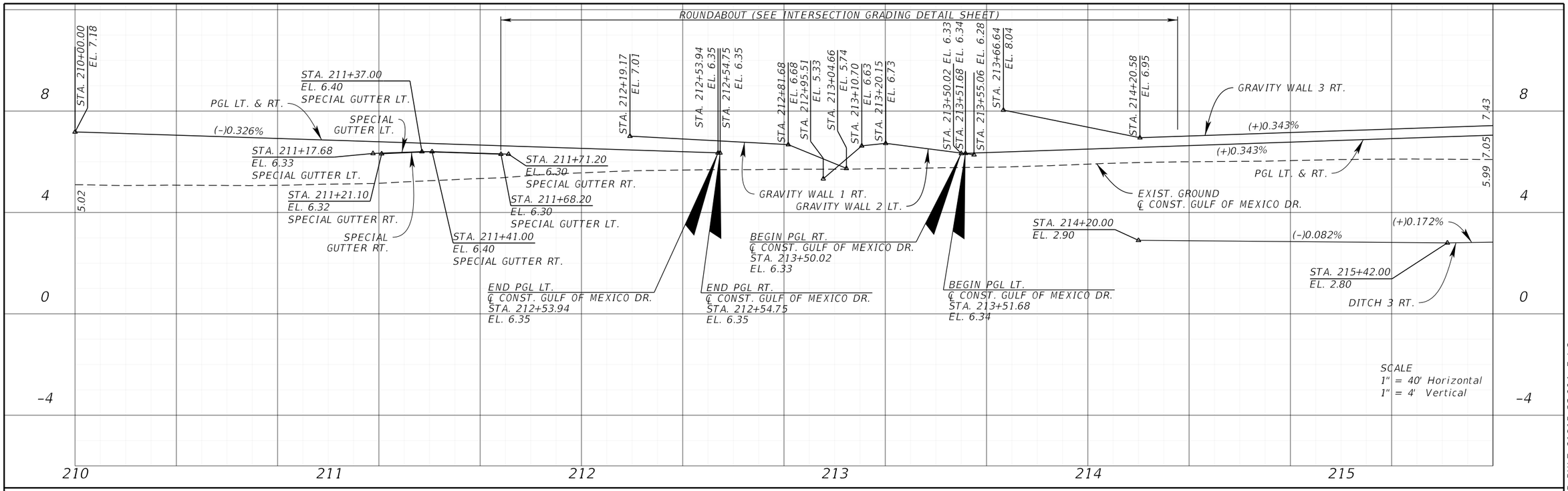
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

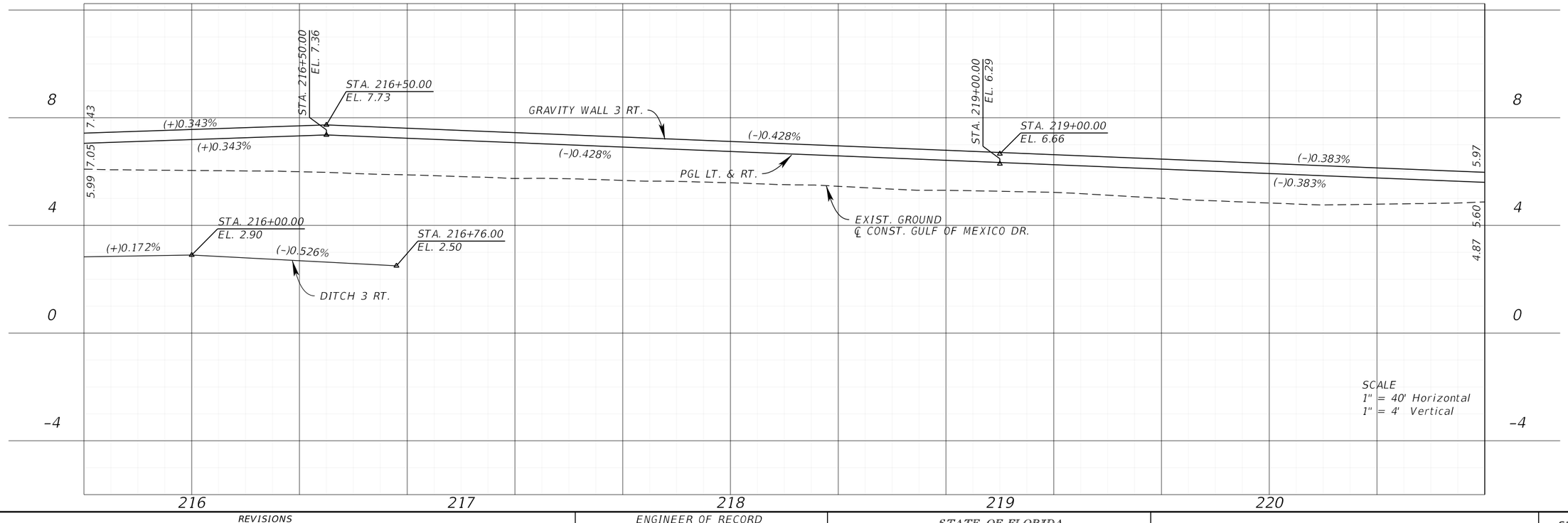
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

PROFILE SHEET (1)

SHEET NO. 23

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REVISIONS			
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SARASOTA, FL 34236

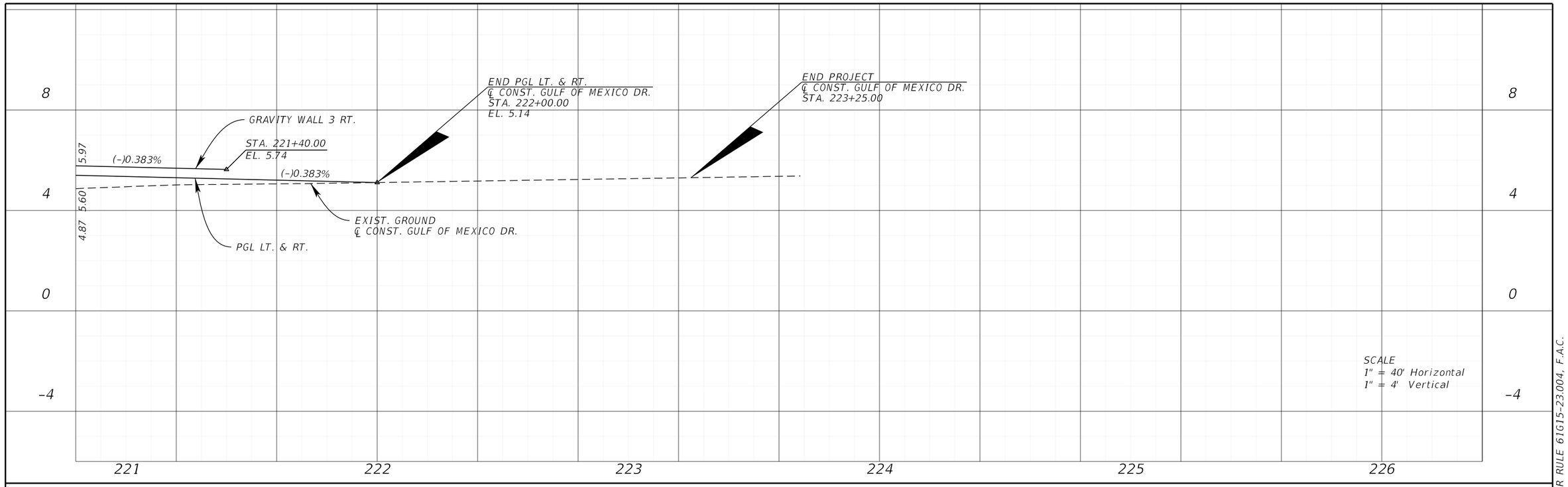
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

PROFILE SHEET (2)

SHEET NO. 24

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REVISIONS			
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1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

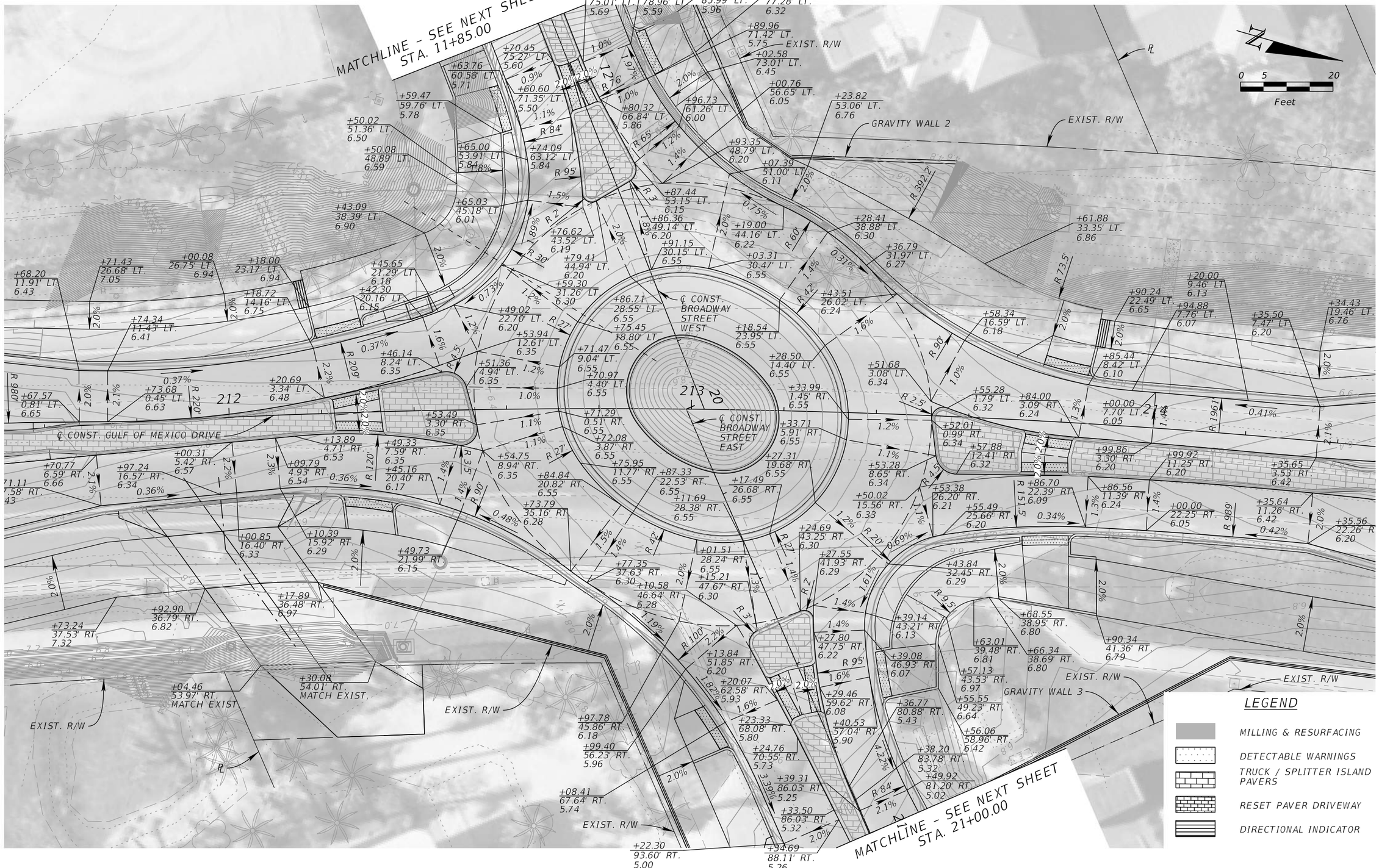
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

PROFILE SHEET (3)

SHEET NO.
25

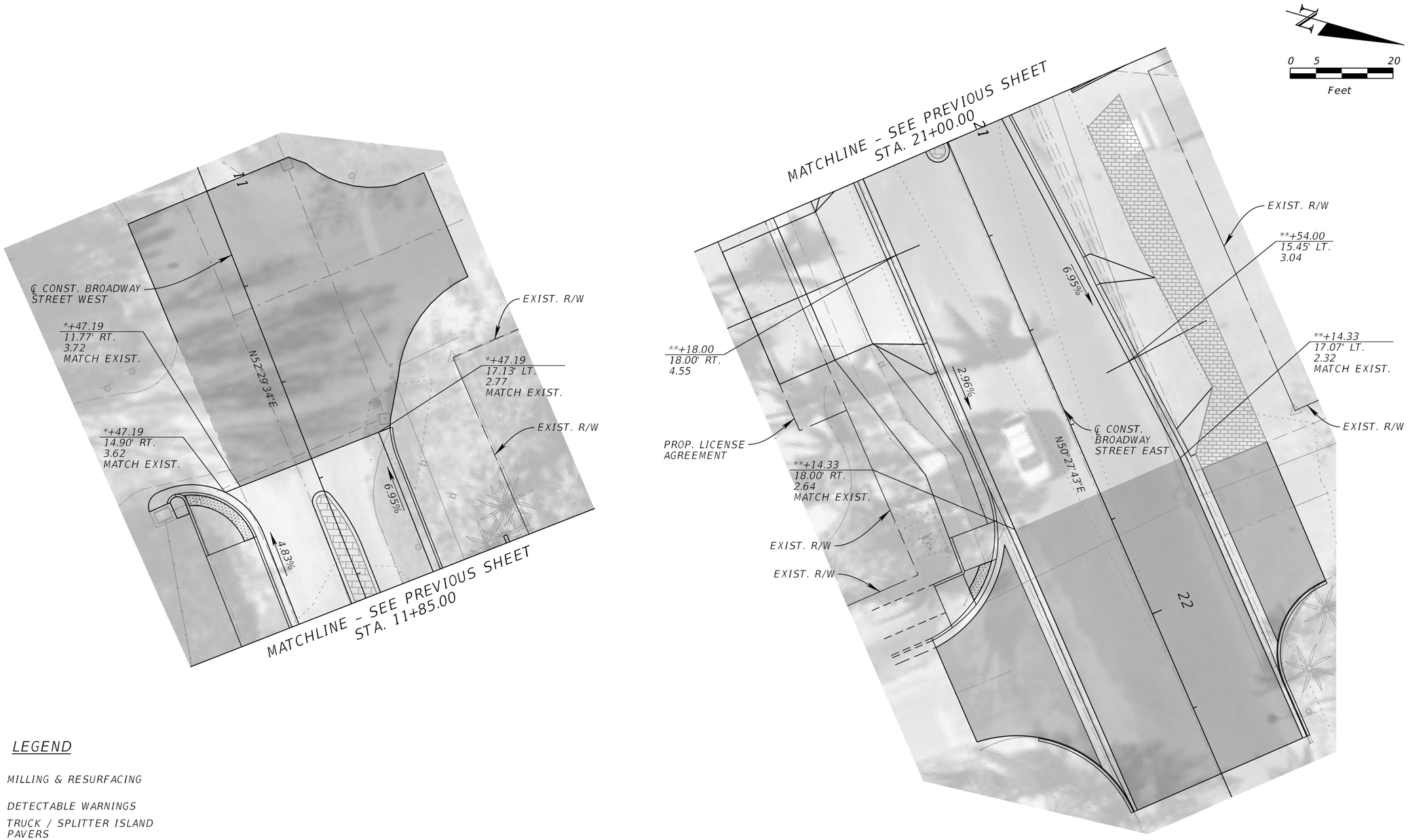
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROUNDABOUT GEOMETRY AND GRADING DETAIL (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		26
					SR 789	MANATEE	453730-1-52-01		

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LEGEND

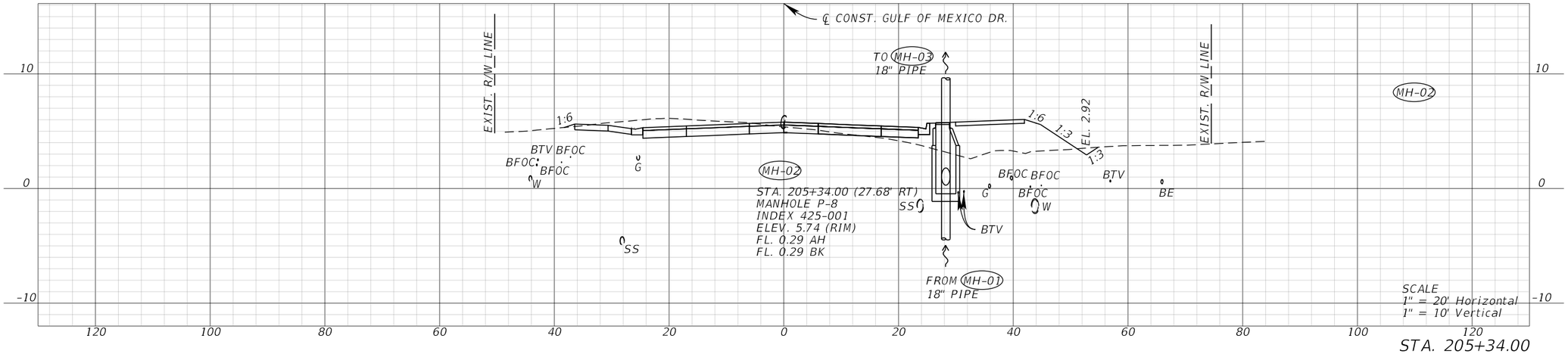
- MILLING & RESURFACING
- DETECTABLE WARNINGS
- TRUCK / SPLITTER ISLAND PAVERS
- RESET PAVER DRIVEWAY
- DIRECTIONAL INDICATOR

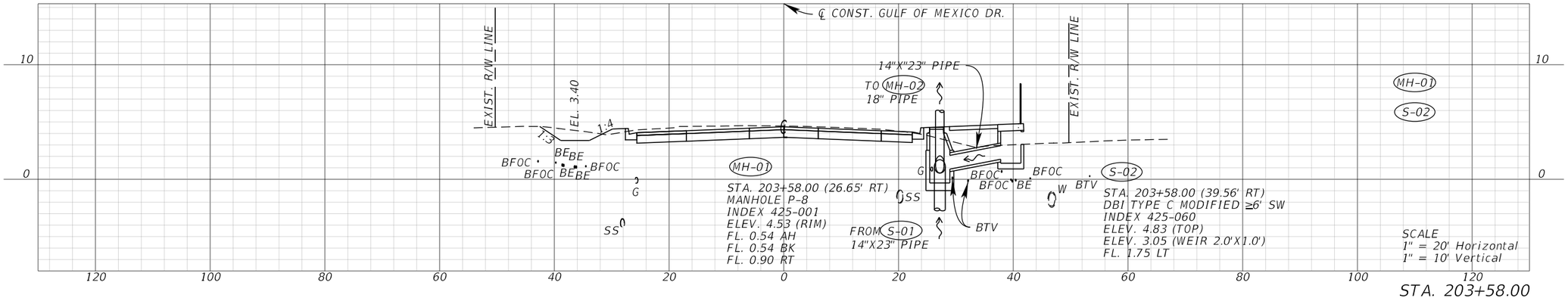
NOTES:
* STATIONING BASED ON ℄ CONST. BROADWAY STREET WEST
** STATIONING BASED ON ℄ CONST. BROADWAY STREET EAST

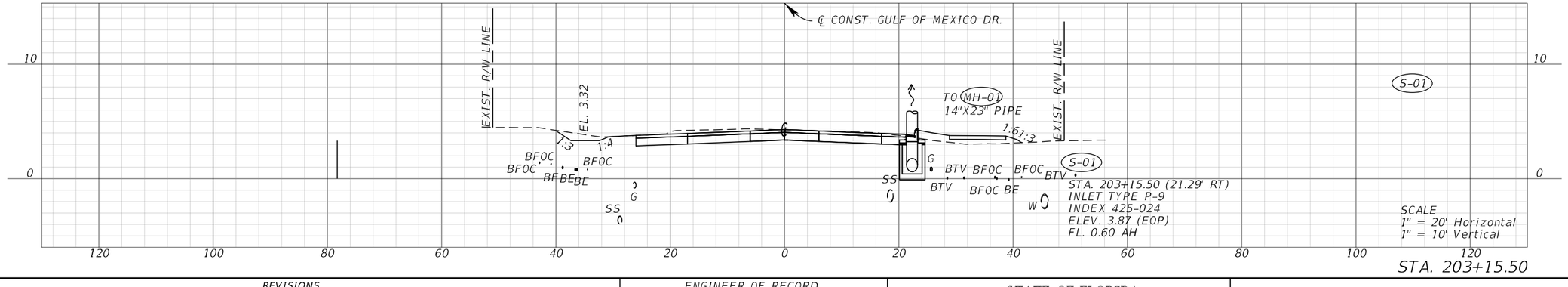
REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROUNDABOUT GEOMETRY AND GRADING DETAIL (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		27
					SR 789	MANATEE	453730-1-52-01		

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

NOTE:
1) SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THESE LOCATIONS.
2) ALL DRAINAGE PIPES HAVE OPTIONAL MATERIALS. THE OPTIONAL MATERIALS TABULATION DATA IS INCLUDED IN THE DRAINAGE STRUCTURE INFORMATION SHEETS AND SHOWS ALL MATERIALS ALLOWED AND INDICATES WHICH MATERIAL IS PLOTTED IN THE PLANS AND USED AS THE BASIS FOR PAY QUANTITIES.
3) SPECIAL ATTENTION IS DIRECTED TO THE QUANTITY OF EXISTING UTILITIES WITHIN THE PROJECT CORRIDOR. PLEASE USE EXTREME CAUTION WHEN DRAINAGE STRUCTURE INSTALLATION OPERATIONS APPROACH EXISTING UTILITIES.







REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

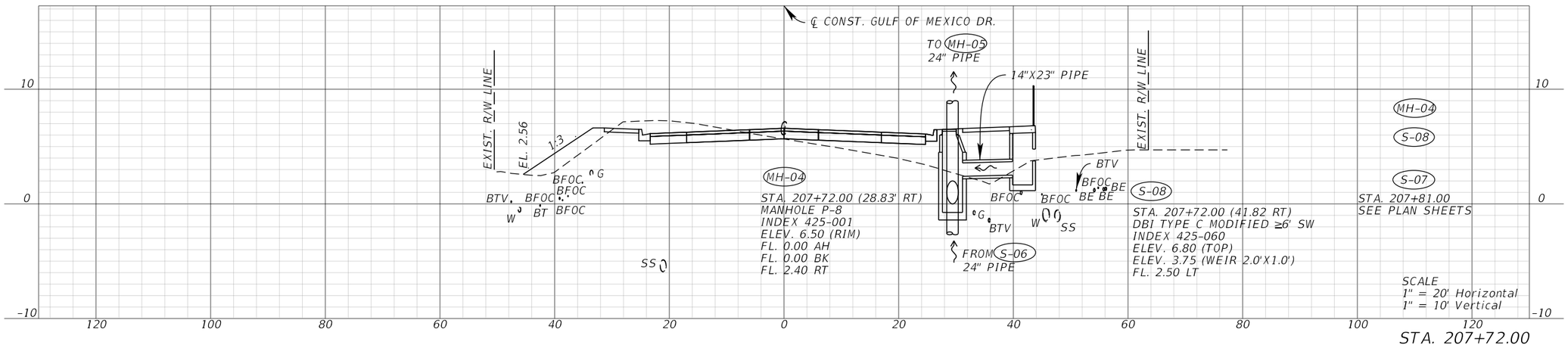
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

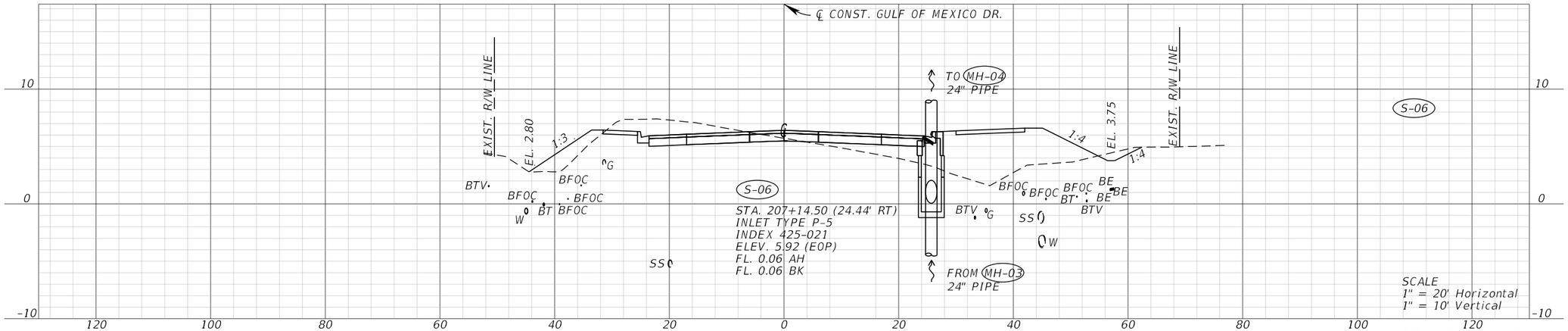
DRAINAGE STRUCTURES

SHEET NO. 28

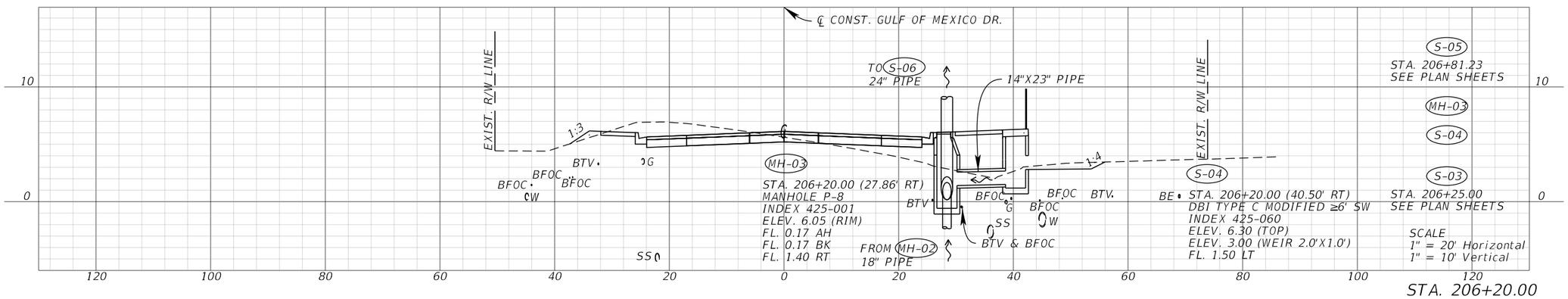
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



STA. 207+72.00



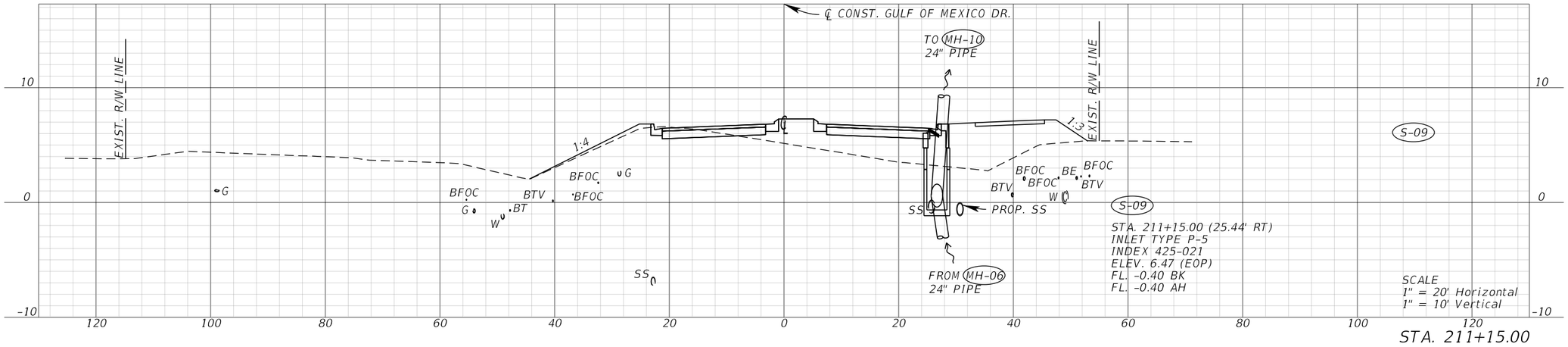
STA. 207+14.50



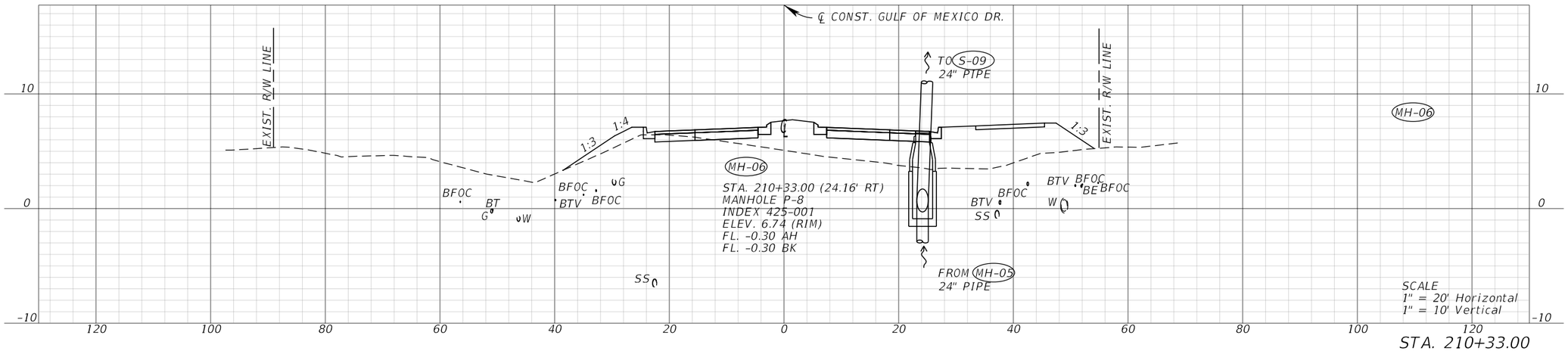
STA. 206+20.00

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		29
					SR 789	MANATEE	453730-1-52-01		

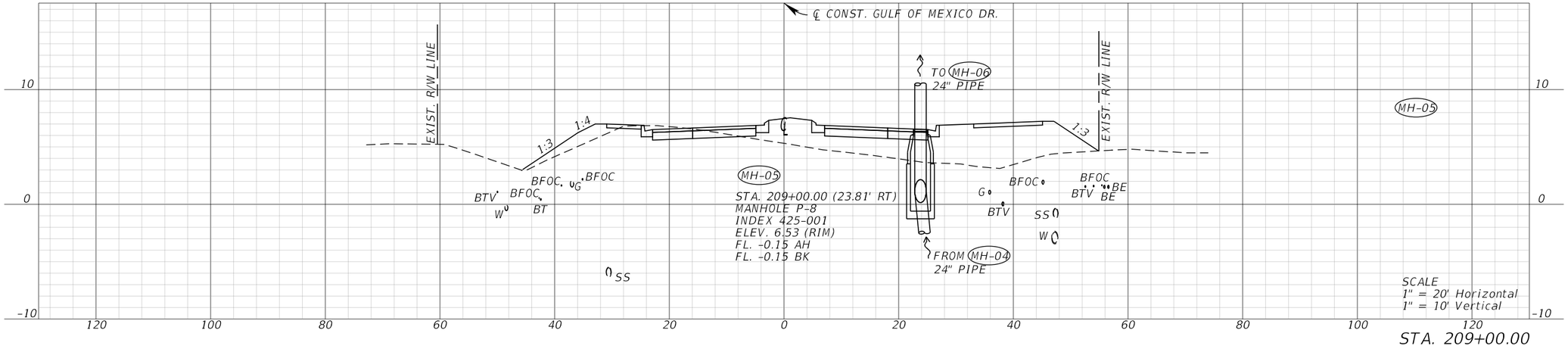
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



STA. 211+15.00



STA. 210+33.00



STA. 209+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

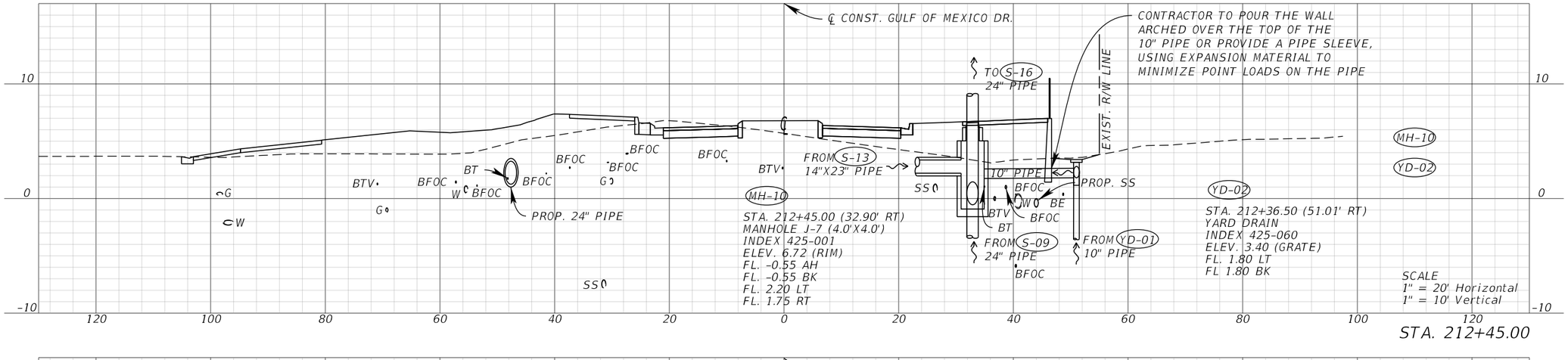
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

DRAINAGE STRUCTURES

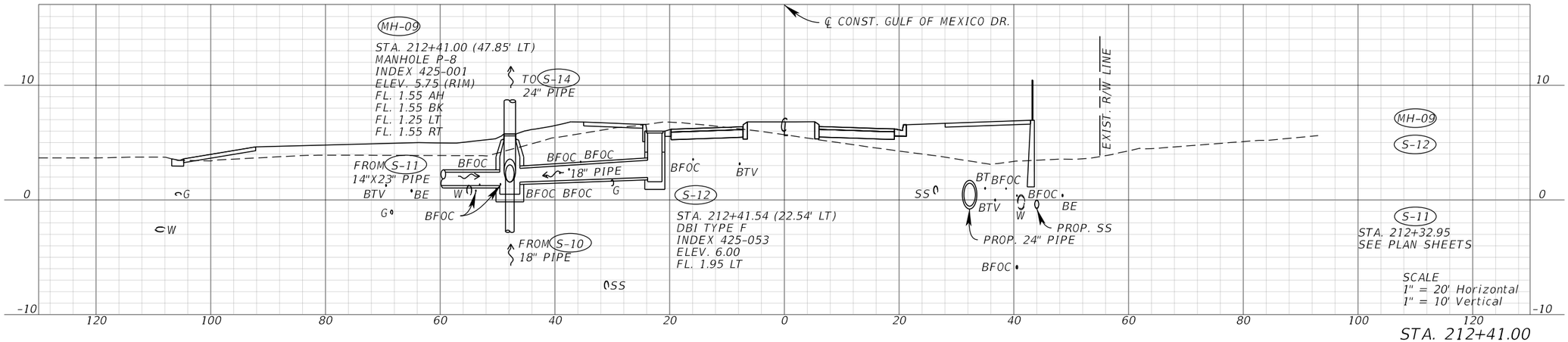
SHEET NO.
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

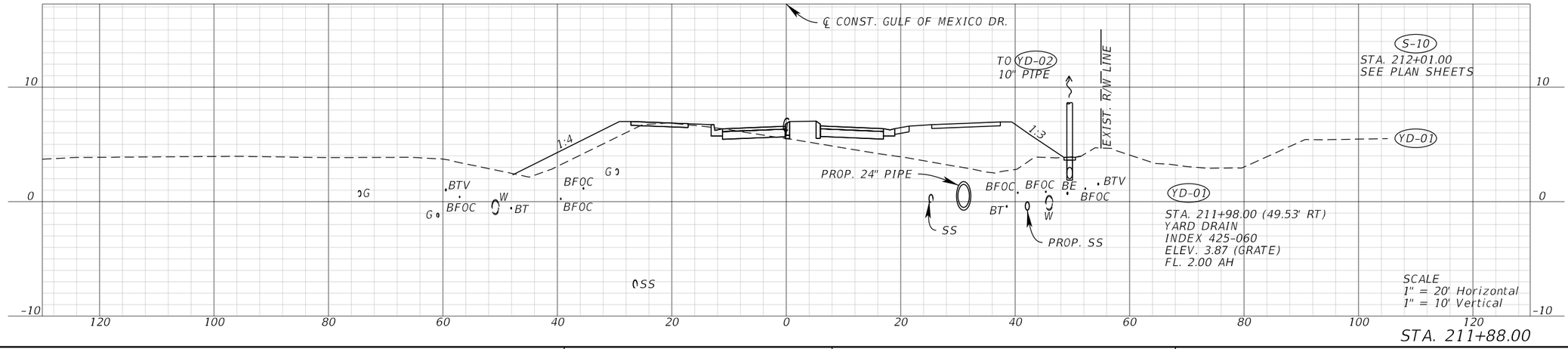
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STA. 212+45.00



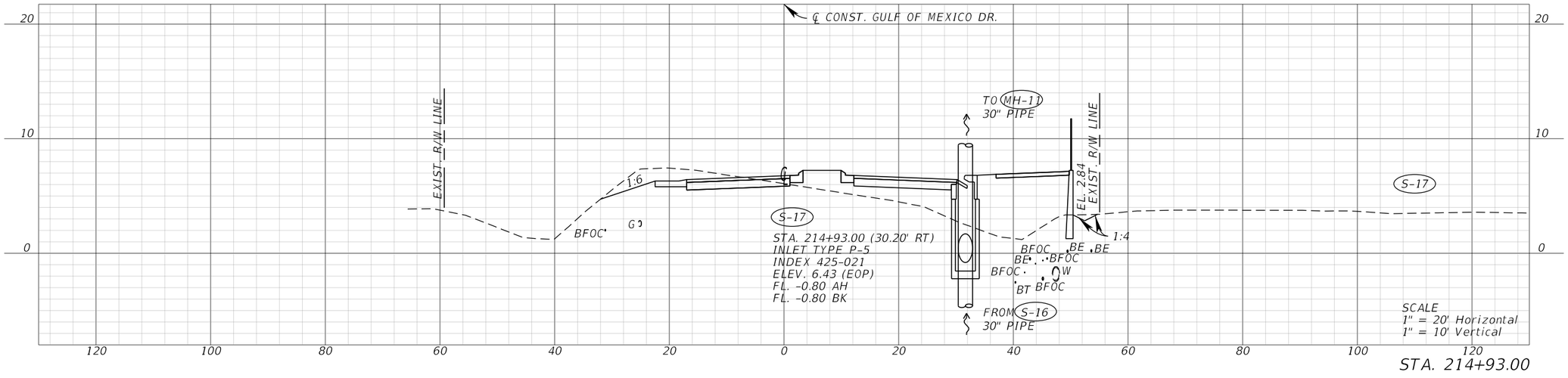
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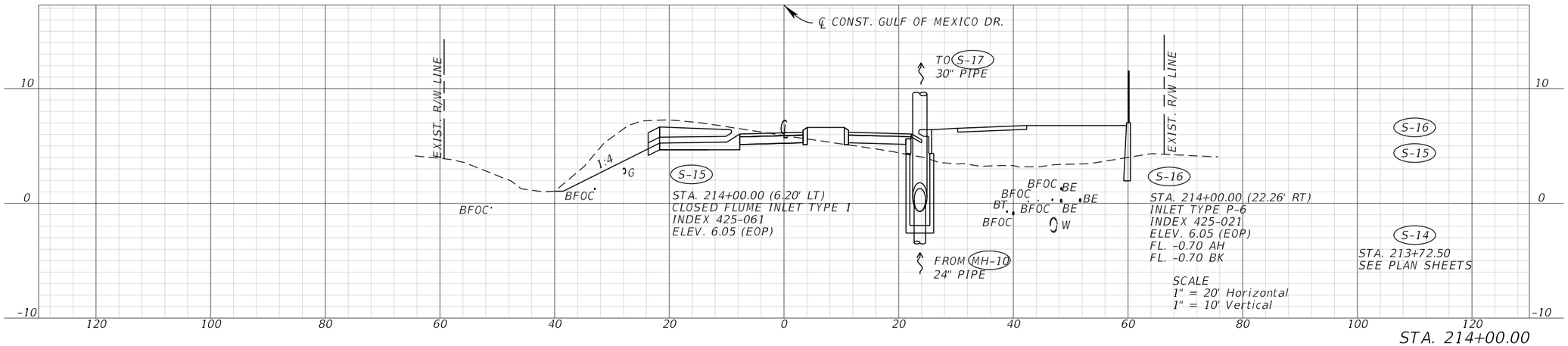
STA. 211+88.00

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		31
					SR 789	MANATEE	453730-1-52-01		

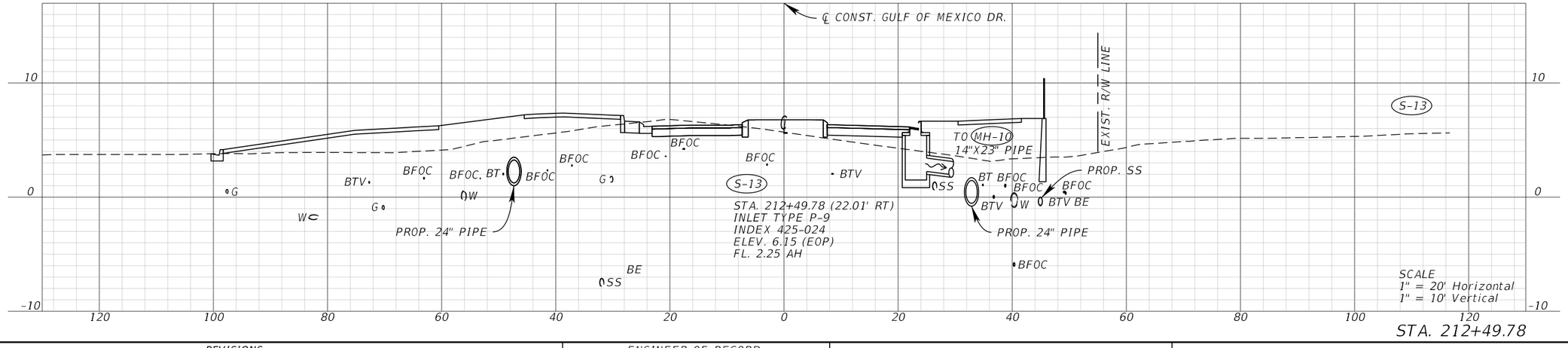
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



STA. 214+93.00



STA. 214+00.00



STA. 212+49.78

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

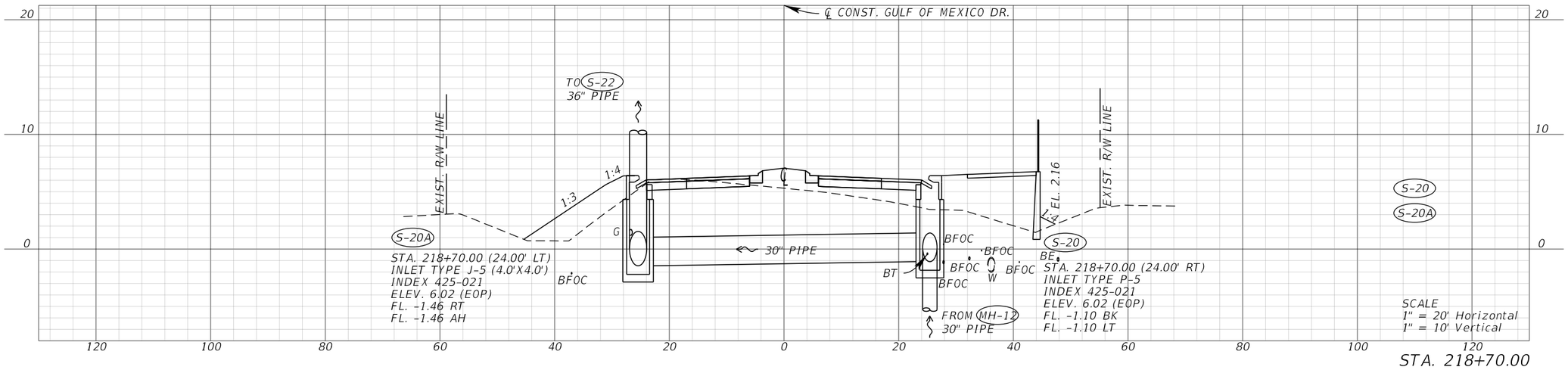
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

DRAINAGE STRUCTURES

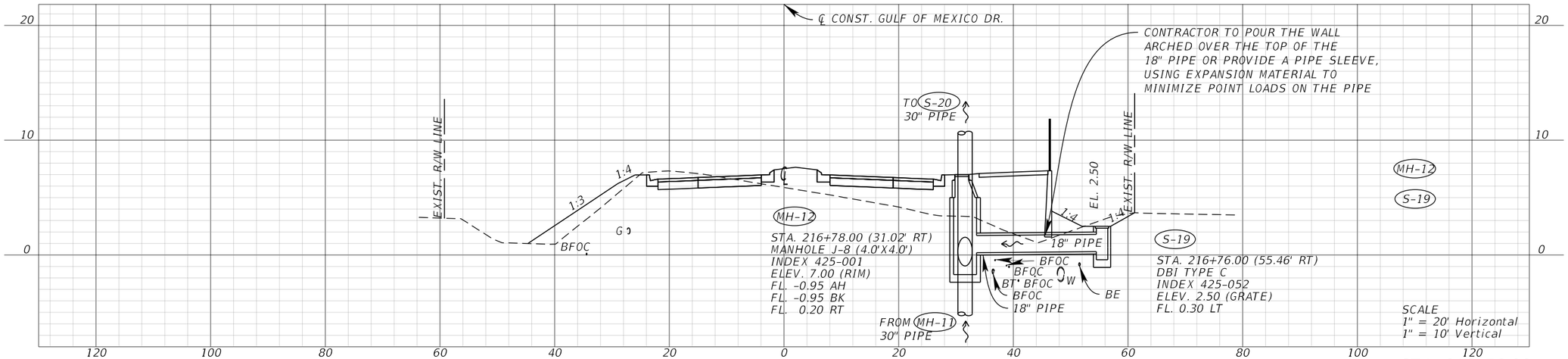
SHEET NO.
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

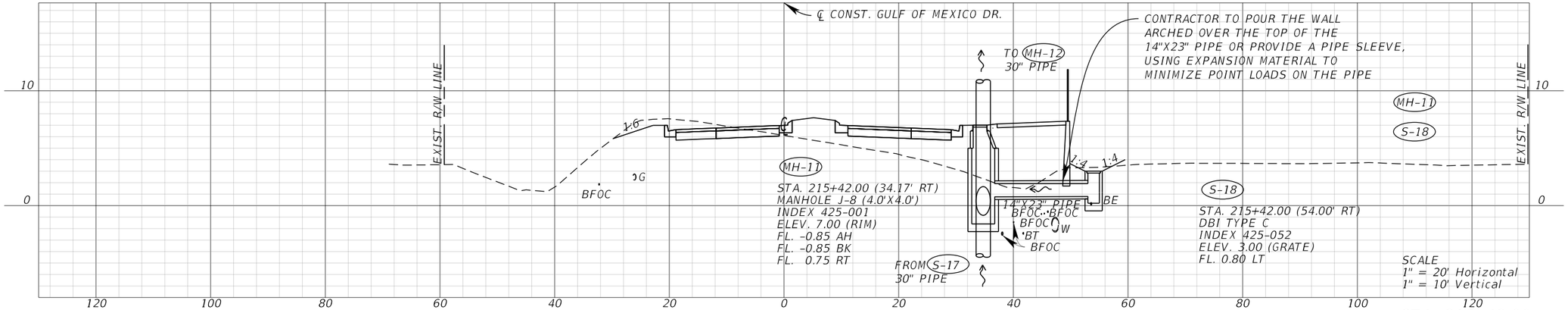
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STA. 218+70.00



STA. 216+78.00



STA. 215+42.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

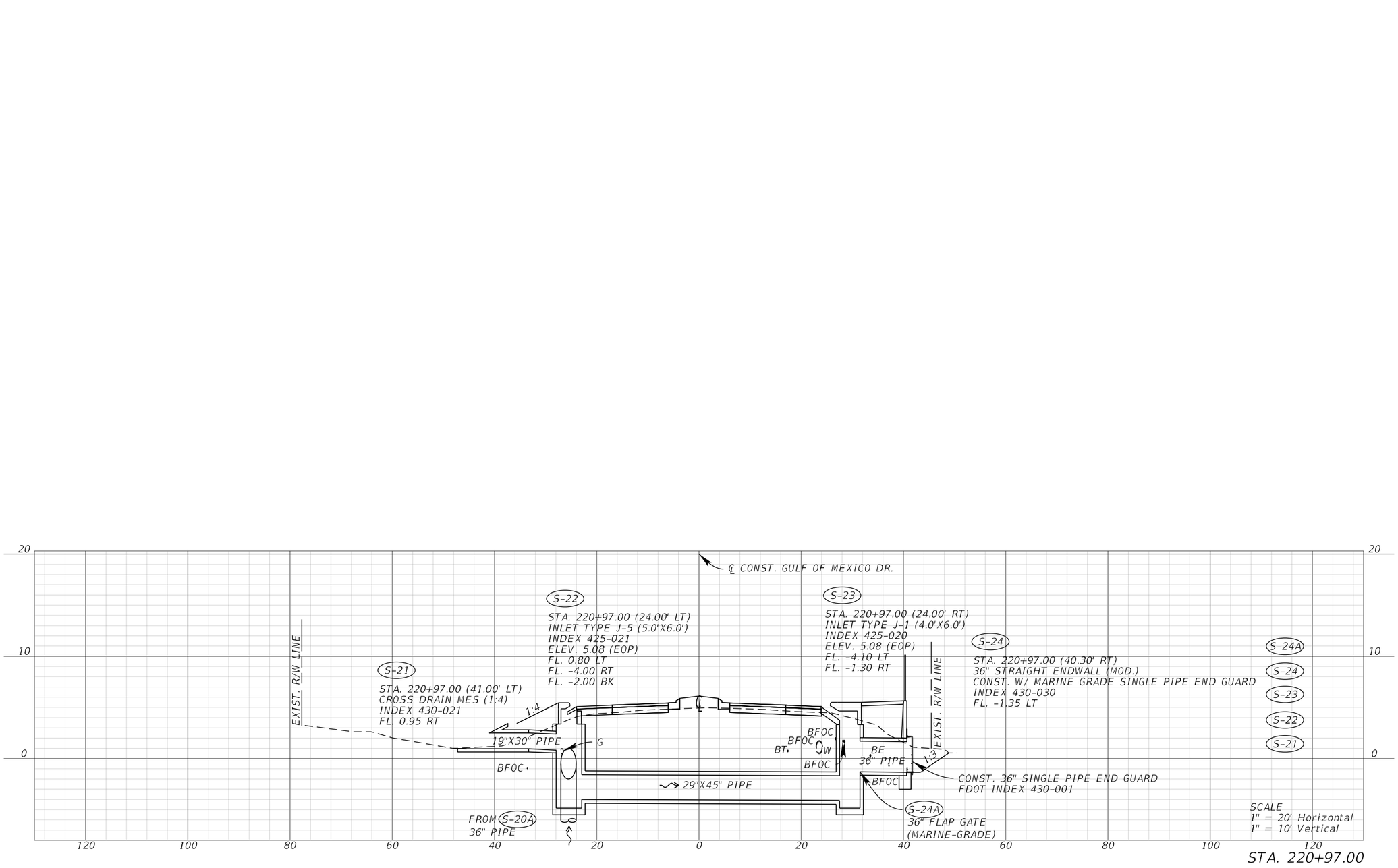
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
33

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

c:\pw\kh1\d0576597\DRXSRD02.dgn : DRAIN XS 6 [SHEET]
Seth.Kline 2/12/2026 12:46:28 PM



REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		34
					SR 789	MANATEE	453730-1-52-01		

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

c:\pw\kh1\d0576597\DRXSRD02.dgn : DRAIN XS 7 [SHEET]
Maria.Nava 4/9/2026 11:06:54 AM

DATE OF SURVEY: DECEMBER 2021 TO MAY 2025
SURVEY MADE BY: TIERRA, INC.
SUBMITTED BY: DANIEL R. RUEL, P.E.

MANATEE COUNTY
FLORIDA

ROAD NO.: SR 789
COUNTY: MANATEE

PROJECT NAME: MODERN ROUNDABOUT IMPROVEMENT DESIGN STATE ROAD NO. 789 (GULF OF MEXICO DR.)

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA. : 200+80.00 SURVEY ENDS STA. : 223+25.00 REFERENCE: CENTERLINE CONSTRUCTION OF GULF OF MEXICO DRIVE

	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)						ATTERBERG LIMITS (%)					CORROSION TEST RESULTS				
STRATUM NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	DESCRIPTION	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	--	--	--	--	9	50-96	46-84	42-77	12-39	1-8	--	--	--	A-1-b/A-3	PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SAND TO SAND WITH SILT, OCCASIONALLY WITH SHELL FRAGMENTS	--	--	--	--	--
2	1	27	1	177	1	--	--	--	--	14	--	--	--	A-8	ORGANIC SILTY SAND	--	--	--	--	--
3	--	--	--	--	1	92	85	81	39	11	--	--	--	A-2-4	PALE BROWN TO BROWN SAND TO SILTY SAND, OCCASIONALLY WITH SHELL FRAGMENTS	--	--	--	--	--
4	--	--	--	--	1	--	--	--	--	46	1	NP	NP	A-4	PALE BROWN TO BROWN SANDY SILT, OCCASIONALLY WITH SHELL FRAGMENTS	--	--	--	--	--

NOTES:

1. THE MATERIAL FROM STRATA 1 AND 3 (A-1-b/A-3/A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-001.
2. THE MATERIAL FROM STRATUM 2 (A-8) IS ORGANIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH THE FDOT STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-001.
3. THE MATERIAL FROM STRATUM 4 (A-4) IS PLASTIC "P" MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS INDEX 120-002 AND MAY BE UTILIZED IN ACCORDANCE WITH STANDARD PLANS INDEX 120-001.

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

▽ - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE

▼ - WATER TABLE ENCOUNTERED

GNE - GROUNDWATER NOT ENCOUNTERED

NP - NON-PLASTIC

"--" INDICATES AN UNMEASURED PARAMETER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
DANIEL R. RUEL, P.E.
LICENSE NUMBER: 82404
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

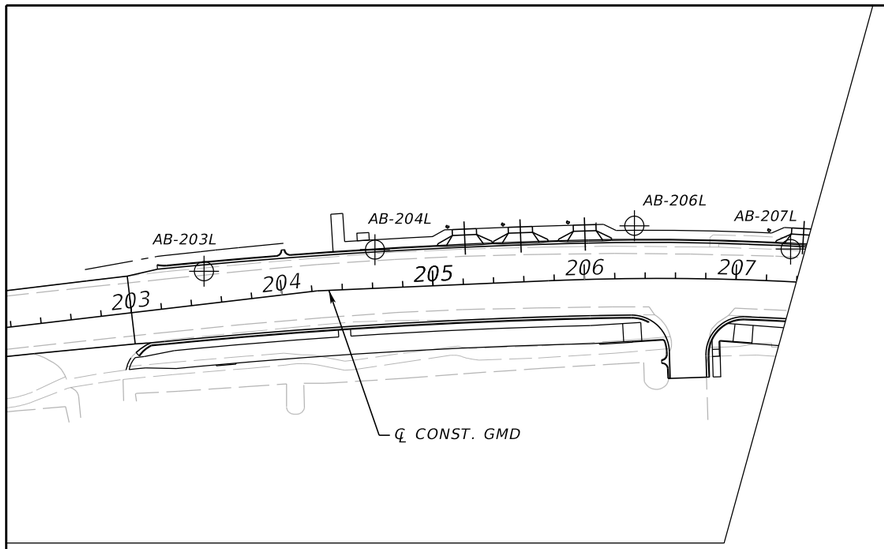
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-58-01

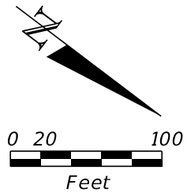
ROADWAY SOIL SURVEY

SHEET NO. 35

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

J:\6511\2021 Files\6511-21-321 LBK Roundabout Improve\0RD\6511-21-321\geotechnical\SSUVRD01.dgn : S0ILSURVEYSHEET
bsawaska 5/30/2025 10:30:50 AM





BORING LOCATION PLAN

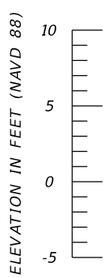
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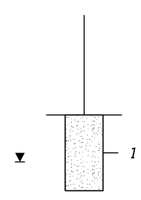
BORING LOCATIONS WERE LOCATED IN THE FIELD BY A REPRESENTATIVE OF TIERRA USING HAND-HELD GLOBAL POSITIONING SYSTEM (GPS) EQUIPMENT WITH A MANUFACTURER'S REPORTED ACCURACY OF ± 10 FEET. THE STATION, OFFSET AND ELEVATION OF THE BORING LOCATIONS WERE DETERMINED UTILIZING THE GPS COORDINATES OBTAINED IN THE FIELD IN CONJUNCTION WITH PROJECT DESIGN FILES. THEREFORE, THE BORING LOCATIONS AND ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

1	PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SAND TO SAND WITH SILT, OCCASIONALLY WIHT SHELL FRAGMENTS (A-1-b/A-3)
2	ORGANIC SILTY SAND (A-8)
3	PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SILTY SAND, OCCASIONALLY WITH SHELL FRAGMENTS (A-2-4)
4	PALE BROWN TO BROWN SANDY SILT, OCCASIONALLY WIHT SHELL FRAGMENTS (A-4)
P	ASPHALT PAVEMENT AND BASE MATERIAL
A-3	AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
-200	PERCENT PASSING #200 SIEVE
NMC	NATURAL MOISTURE CONTENT (%)
LL	LIQUID LIMIT (%)
PI	PLASTICITY INDEX (%)
OC	ORGANIC CONTENT (%)
NP	NON-PLASTIC
NAVD 88	NORTH AMERICAN VERTICAL DATUM OF 1988
▽	ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
▼	GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
GNE	GROUNDWATER NOT ENCOUNTERED
CAVE-IN	BORING TERMINATED DUE TO CAVE-IN FROM GROUNDWATER INTRUSION
⌖	APPROXIMATE SPT BORING LOCATION
◉	APPROXIMATE PAVEMENT CORE LOCATION
▲	APPROXIMATE LBR SAMPLE LOCATION
℄ CONST. GMD	CENTERLINE CONSTRUCTION OF GULF OF MEXICO DRIVE

BOR # AB-203L
STA. 203+51
REF. ℄ CONST. GMD
OFF. 22' LT.
ELEV. 4.4
DATE 4/5/2025

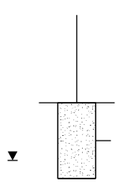




BORING TERMINATED AT ELEVATION -0.6 FT (NAVD 88)

LATITUDE: N 27.43304
LONGITUDE: W 82.68421

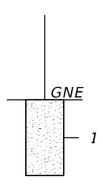
BOR # AB-204L
STA. 204+63
REF. ℄ CONST. GMD
OFF. 26' LT.
ELEV. 5.2
DATE 4/5/2025



BORING TERMINATED AT ELEVATION 0.2 FT (NAVD 88)

LATITUDE: N 27.43326
LONGITUDE: W 82.68445

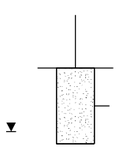
BOR # AB-206L
STA. 206+33
REF. ℄ CONST. GMD
OFF. 35' LT.
ELEV. 5.4
DATE 4/5/2025



BORING TERMINATED AT ELEVATION 0.4 FT (NAVD 88)

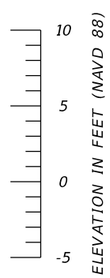
LATITUDE: N 27.43361
LONGITUDE: W 82.68481

BOR # AB-207L
STA. 207+35
REF. ℄ CONST. GMD
OFF. 22' LT.
ELEV. 7.5
DATE 4/5/2025



BORING TERMINATED AT ELEVATION 2.5 FT (NAVD 88)

LATITUDE: N 27.43386
LONGITUDE: W 82.68497



	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

DANIEL R. RUEL, P.E.
LICENSE NUMBER: 82404
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

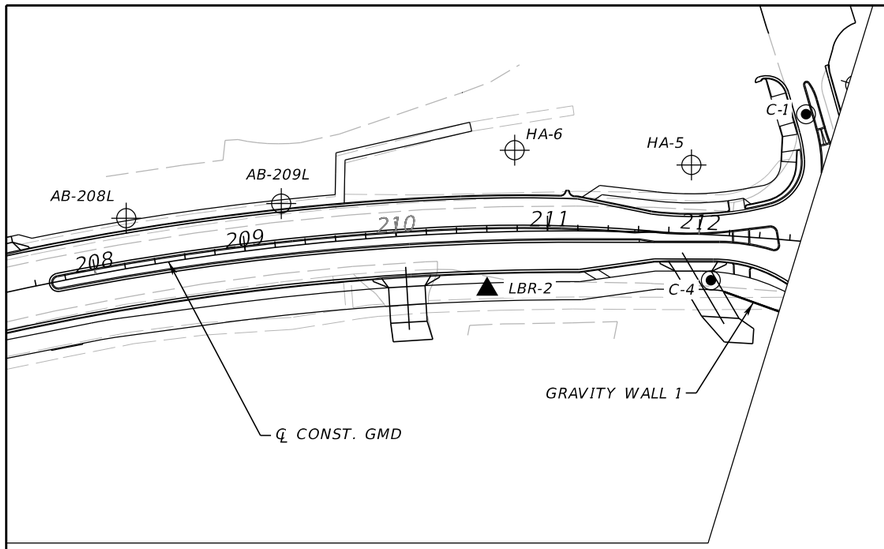
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-58-01

REPORT OF CORE BORINGS (1)

SHEET NO. 36

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

J:\6511\2021 Files\6511-21-321 LBK Roundabout Improve\ORD\6511-21-321\Geotechnical\AB0RRDRCB01.dgn : RCB01 [SHEET]
bsawaska 6/2/2025 12:54:25 PM



0 20 100
Feet

BORING LOCATION PLAN

NOTE:

BORING LOCATIONS WERE LOCATED IN THE FIELD BY A REPRESENTATIVE OF TIERRA USING HAND-HELD GLOBAL POSITIONING SYSTEM (GPS) EQUIPMENT WITH A MANUFACTURER'S REPORTED ACCURACY OF ± 10 FEET. THE STATION, OFFSET AND ELEVATION OF THE BORING LOCATIONS WERE DETERMINED UTILIZING THE GPS COORDINATES OBTAINED IN THE FIELD IN CONJUNCTION WITH PROJECT DESIGN FILES. THEREFORE, THE BORING LOCATIONS AND ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

1		PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SAND TO SAND WITH SILT, OCCASIONALLY WIHT SHELL FRAGMENTS (A-1-b/A-3)
2		ORGANIC SILTY SAND (A-8)
3		PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SILTY SAND, OCCASIONALLY WITH SHELL FRAGMENTS (A-2-4)
4		PALE BROWN TO BROWN SANDY SILT, OCCASIONALLY WIHT SHELL FRAGMENTS (A-4)
P		ASPHALT PAVEMENT AND BASE MATERIAL
A-3		AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
-200		PERCENT PASSING #200 SIEVE
NMC		NATURAL MOISTURE CONTENT (%)
LL		LIQUID LIMIT (%)
PI		PLASTICITY INDEX (%)
OC		ORGANIC CONTENT (%)
NP		NON-PLASTIC
NAVD 88		NORTH AMERICAN VERTICAL DATUM OF 1988
▽		ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
▼		GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
GNE		GROUNDWATER NOT ENCOUNTERED
CAVE-IN		BORING TERMINATED DUE TO CAVE-IN FROM GROUNDWATER INTRUSION
⊕		APPROXIMATE SPT BORING LOCATION
◉		APPROXIMATE PAVEMENT CORE LOCATION
▲		APPROXIMATE LBR SAMPLE LOCATION
℄ CONST. GMD		CENTERLINE CONSTRUCTION OF GULF OF MEXICO DRIVE

BOR # AB-208L
STA. 208+26
REF. ℄ CONST. GMD
OFF. 33' LT.
ELEV. 5.7
DATE 4/5/2025

BORING TERMINATED AT ELEVATION 0.7 FT (NAVD 88)

LATITUDE: N 27.43405
LONGITUDE: W 82.68515

BOR # AB-209L
STA. 209+27
REF. ℄ CONST. GMD
OFF. 28' LT.
ELEV. 6.7
DATE 4/5/2025

BORING TERMINATED AT ELEVATION 1.7 FT (NAVD 88)

LATITUDE: N 27.43431
LONGITUDE: W 82.68530

BOR # HA-6
STA. 210+79
REF. ℄ CONST. GMD
OFF. 54' LT.
ELEV. 2.8
DATE 12/3/2021

BORING TERMINATED AT ELEVATION -2.2 FT (NAVD 88)

LATITUDE: N 27.43466
LONGITUDE: W 82.68558

BOR # HA-5
STA. 211+93
REF. ℄ CONST. GMD
OFF. 45' LT.
ELEV. 2.5
DATE 12/3/2021

BORING TERMINATED AT ELEVATION -3.5 FT (NAVD 88)

LATITUDE: N 27.43497
LONGITUDE: W 82.68568

BOR # C-4
STA. 212+09
REF. ℄ CONST. GMD
OFF. 30' RT.
ELEV. 3.2
DATE 11/9/2021

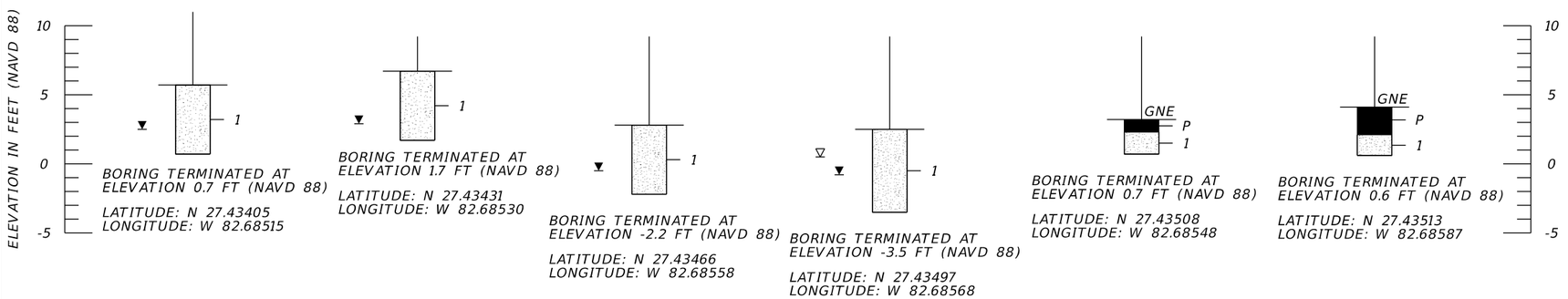
BORING TERMINATED AT ELEVATION 0.7 FT (NAVD 88)

LATITUDE: N 27.43508
LONGITUDE: W 82.68548

BOR # C-1
STA. 212+63
REF. ℄ CONST. GMD
OFF. 84' LT.
ELEV. 4.1
DATE 11/9/2021

BORING TERMINATED AT ELEVATION 0.6 FT (NAVD 88)

LATITUDE: N 27.43513
LONGITUDE: W 82.68587



	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

DANIEL R. RUEL, P.E.
LICENSE NUMBER: 82404
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

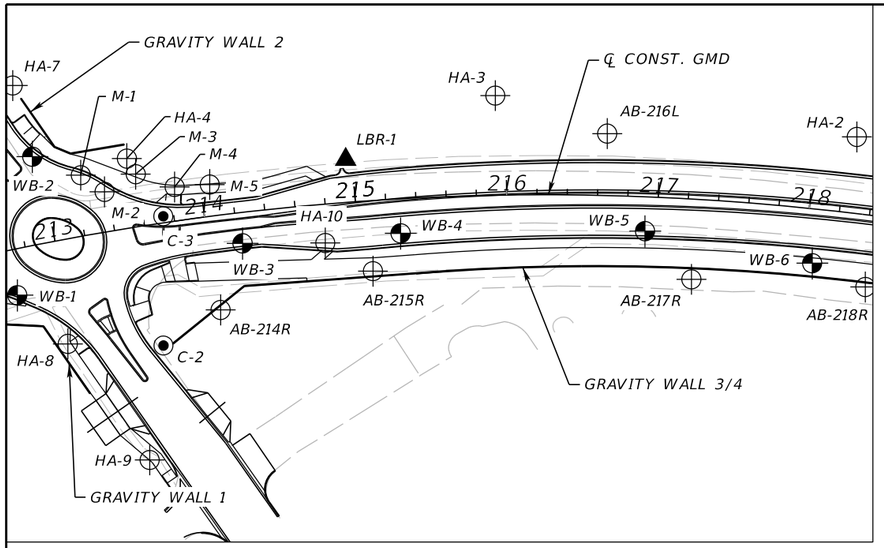
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-58-01

REPORT OF CORE BORINGS (2)

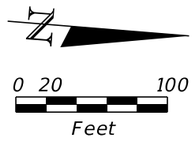
SHEET NO. 37

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

J:\6511\2021 Files\6511-21-321 LBK Roundabout Improve\ORD\6511-21-321\Geotechnical\AB0RRDRCB01.dgn : RCB02 [SHEET]
bsawaska 6/2/2025 12:54:26 PM



BORING LOCATION PLAN



NOTE:

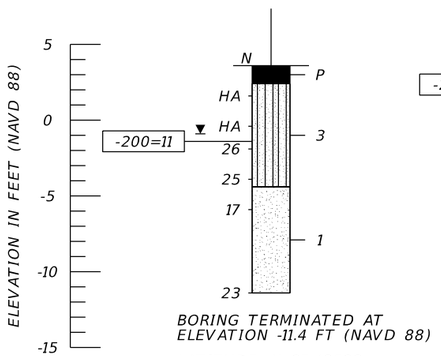
BORING LOCATIONS WERE LOCATED IN THE FIELD BY A REPRESENTATIVE OF TIERRA USING HAND-HELD GLOBAL POSITIONING SYSTEM (GPS) EQUIPMENT WITH A MANUFACTURER'S REPORTED ACCURACY OF ± 10 FEET. THE STATION, OFFSET AND ELEVATION OF THE BORING LOCATIONS WERE DETERMINED UTILIZING THE GPS COORDINATES OBTAINED IN THE FIELD IN CONJUNCTION WITH PROJECT DESIGN FILES. THEREFORE, THE BORING LOCATIONS AND ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

1		PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SAND TO SAND WITH SILT, OCCASIONALLY WIHT SHELL FRAGMENTS (A-1-b/A-3)
2		ORGANIC SILTY SAND (A-8)
3		PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SILTY SAND, OCCASIONALLY WITH SHELL FRAGMENTS (A-2-4)
4		PALE BROWN TO BROWN SANDY SILT, OCCASIONALLY WIHT SHELL FRAGMENTS (A-4)
P		ASPHALT PAVEMENT AND BASE MATERIAL
A-3		AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
-200		PERCENT PASSING #200 SIEVE
NMC		NATURAL MOISTURE CONTENT (%)
LL		LIQUID LIMIT (%)
PI		PLASTICITY INDEX (%)
OC		ORGANIC CONTENT (%)
NP		NON-PLASTIC
NAVD 88		NORTH AMERICAN VERTICAL DATUM OF 1988
▽		ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
▼		GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
GNE		GROUNDWATER NOT ENCOUNTERED
CAVE-IN		BORING TERMINATED DUE TO CAVE-IN FROM GROUNDWATER INTRUSION
⊕		APPROXIMATE SPT BORING LOCATION
◉		APPROXIMATE PAVEMENT CORE LOCATION
▲		APPROXIMATE LBR SAMPLE LOCATION

℄ CONST. GMD — CENTERLINE CONSTRUCTION OF GULF OF MEXICO DRIVE

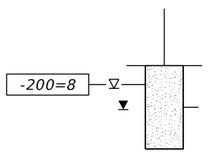
BOR # WB-1
STA. 212+68
REF. ℄ CONST. GMD
OFF. 30' RT.
ELEV. 3.6
DATE 5/7/2025
DRILLER R. SCRUGGS
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED AT ELEVATION -11.4 FT (NAVD 88)

LATITUDE: N 27.43523
LONGITUDE: W 82.68554

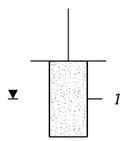
BOR # HA-7
STA. 212+92
REF. ℄ CONST. GMD
OFF. 106' LT.
ELEV. 3.6
DATE 12/3/2021



BORING TERMINATED AT ELEVATION -1.9 FT (NAVD 88)

LATITUDE: N 27.43519
LONGITUDE: W 82.68596

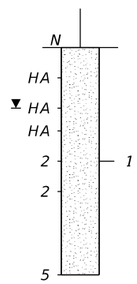
BOR # HA-8
STA. 212+95
REF. ℄ CONST. GMD
OFF. 68' RT.
ELEV. 3.9
DATE 12/3/2021



BORING TERMINATED AT ELEVATION -1.1 FT (NAVD 88)

LATITUDE: N 27.43533
LONGITUDE: W 82.68545

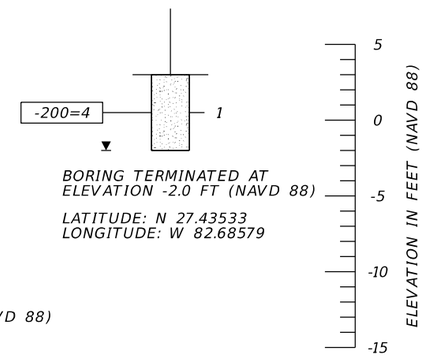
BOR # WB-2
STA. 212+96
REF. ℄ CONST. GMD
OFF. 58' LT.
ELEV. 4.8
DATE 4/25/2025
DRILLER D. POLLOCK
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED AT ELEVATION -10.2 FT (NAVD 88)

LATITUDE: N 27.43524
LONGITUDE: W 82.68582

BOR # M-1
STA. 213+24
REF. ℄ CONST. GMD
OFF. 40' LT.
ELEV. 3.0
DATE 4/5/2025



BORING TERMINATED AT ELEVATION -2.0 FT (NAVD 88)

LATITUDE: N 27.43533
LONGITUDE: W 82.68579

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

DANIEL R. RUEL, P.E.
LICENSE NUMBER: 82404
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

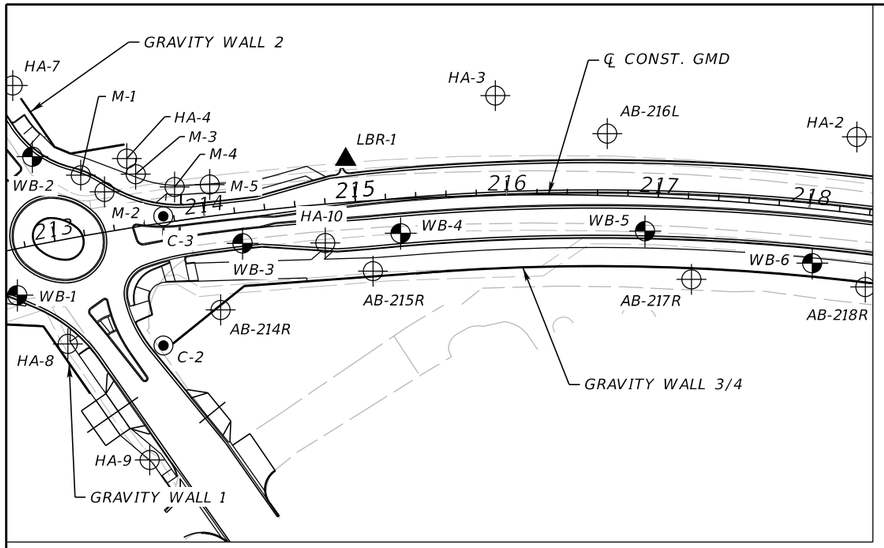
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-58-01

REPORT OF CORE BORINGS (3)

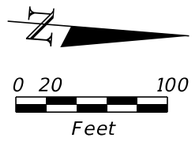
SHEET NO. 38

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

J:\6511\2021 Files\6511-21-321 LBK Roundabout Improve\ORD\6511-21-321\Geotechnical\AB0RRDRCB01.dgn : RCB03 [SHEET]
bsawaska 6/2/2025 12:54:26 PM



BORING LOCATION PLAN



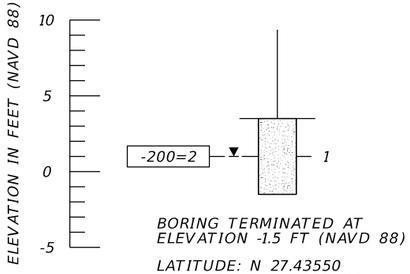
NOTE:

BORING LOCATIONS WERE LOCATED IN THE FIELD BY A REPRESENTATIVE OF TIERRA USING HAND-HELD GLOBAL POSITIONING SYSTEM (GPS) EQUIPMENT WITH A MANUFACTURER'S REPORTED ACCURACY OF ± 10 FEET. THE STATION, OFFSET AND ELEVATION OF THE BORING LOCATIONS WERE DETERMINED UTILIZING THE GPS COORDINATES OBTAINED IN THE FIELD IN CONJUNCTION WITH PROJECT DESIGN FILES. THEREFORE, THE BORING LOCATIONS AND ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

1		PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SAND TO SAND WITH SILT, OCCASIONALLY WIHT SHELL FRAGMENTS (A-1-b/A-3)
2		ORGANIC SILTY SAND (A-8)
3		PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SILTY SAND, OCCASIONALLY WITH SHELL FRAGMENTS (A-2-4)
4		PALE BROWN TO BROWN SANDY SILT, OCCASIONALLY WIHT SHELL FRAGMENTS (A-4)
P		ASPHALT PAVEMENT AND BASE MATERIAL
A-3		AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
-200		PERCENT PASSING #200 SIEVE
NMC		NATURAL MOISTURE CONTENT (%)
LL		LIQUID LIMIT (%)
PI		PLASTICITY INDEX (%)
OC		ORGANIC CONTENT (%)
NP		NON-PLASTIC
NAVD 88		NORTH AMERICAN VERTICAL DATUM OF 1988
▽		ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
▼		GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
GNE		GROUNDWATER NOT ENCOUNTERED
CAVE-IN		BORING TERMINATED DUE TO CAVE-IN FROM GROUNDWATER INTRUSION
⊕		APPROXIMATE SPT BORING LOCATION
◉		APPROXIMATE PAVEMENT CORE LOCATION
▲		APPROXIMATE LBR SAMPLE LOCATION
℄ CONST. GMD		CENTERLINE CONSTRUCTION OF GULF OF MEXICO DRIVE

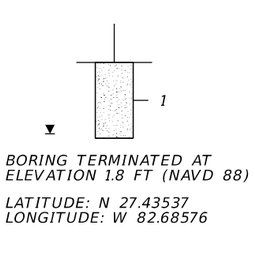
BOR # HA-9
STA. 213+38
REF. ℄ CONST. GMD
OFF. 153' RT.
ELEV. 3.5
DATE 12/3/2021



BORING TERMINATED AT ELEVATION -1.5 FT (NAVD 88)

LATITUDE: N 27.43550
LONGITUDE: W 82.68523

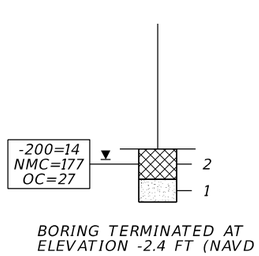
BOR # M-2
STA. 213+38
REF. ℄ CONST. GMD
OFF. 26' LT.
ELEV. 6.8
DATE 4/5/2025



BORING TERMINATED AT ELEVATION 1.8 FT (NAVD 88)

LATITUDE: N 27.43537
LONGITUDE: W 82.68576

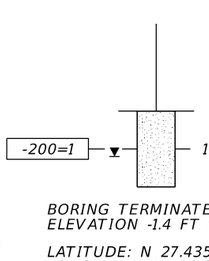
BOR # HA-4
STA. 213+55
REF. ℄ CONST. GMD
OFF. 46' LT.
ELEV. 1.1
DATE 12/3/2021



BORING TERMINATED AT ELEVATION -2.4 FT (NAVD 88)

LATITUDE: N 27.43541
LONGITUDE: W 82.68583

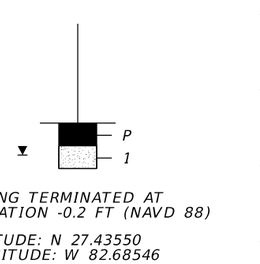
BOR # M-3
STA. 213+59
REF. ℄ CONST. GMD
OFF. 34' LT.
ELEV. 3.6
DATE 4/5/2025



BORING TERMINATED AT ELEVATION -1.4 FT (NAVD 88)

LATITUDE: N 27.43543
LONGITUDE: W 82.68580

BOR # C-2
STA. 213+60
REF. ℄ CONST. GMD
OFF. 80' RT.
ELEV. 2.8
DATE 11/9/2021



BORING TERMINATED AT ELEVATION -0.2 FT (NAVD 88)

LATITUDE: N 27.43550
LONGITUDE: W 82.68546



	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

DANIEL R. RUEL, P.E.
LICENSE NUMBER: 82404
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637

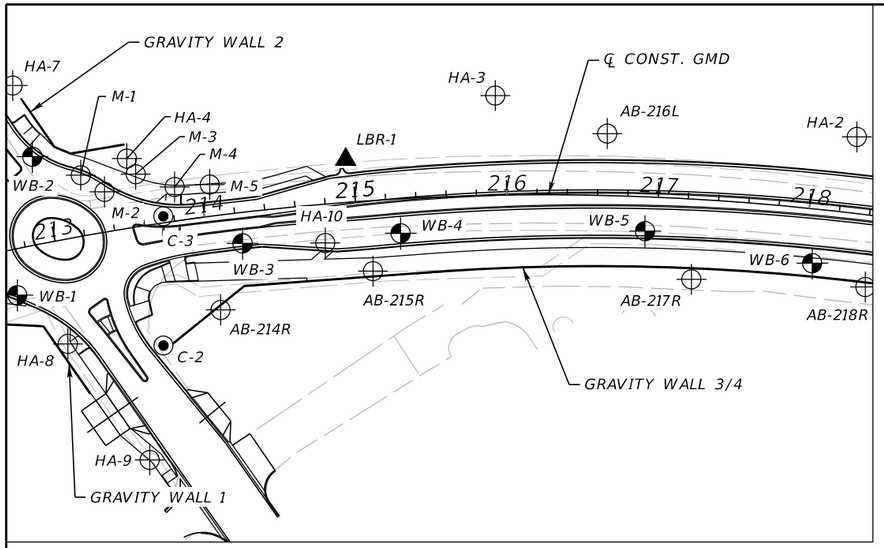
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-58-01

REPORT OF CORE BORINGS (4)

SHEET NO. 39

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



BORING LOCATION PLAN

0 20 100

Feet

NOTE:

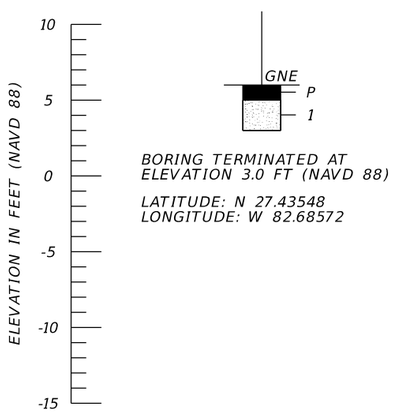
BORING LOCATIONS WERE LOCATED IN THE FIELD BY A REPRESENTATIVE OF TIERRA USING HAND-HELD GLOBAL POSITIONING SYSTEM (GPS) EQUIPMENT WITH A MANUFACTURER'S REPORTED ACCURACY OF ± 10 FEET. THE STATION, OFFSET AND ELEVATION OF THE BORING LOCATIONS WERE DETERMINED UTILIZING THE GPS COORDINATES OBTAINED IN THE FIELD IN CONJUNCTION WITH PROJECT DESIGN FILES. THEREFORE, THE BORING LOCATIONS AND ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

1		PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SAND TO SAND WITH SILT, OCCASIONALLY WIHT SHELL FRAGMENTS (A-1-b/A-3)
2		ORGANIC SILTY SAND (A-8)
3		PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SILTY SAND, OCCASIONALLY WITH SHELL FRAGMENTS (A-2-4)
4		PALE BROWN TO BROWN SANDY SILT, OCCASIONALLY WIHT SHELL FRAGMENTS (A-4)
P		ASPHALT PAVEMENT AND BASE MATERIAL
A-3		AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
-200		PERCENT PASSING #200 SIEVE
NMC		NATURAL MOISTURE CONTENT (%)
LL		LIQUID LIMIT (%)
PI		PLASTICITY INDEX (%)
OC		ORGANIC CONTENT (%)
NP		NON-PLASTIC
NAVD 88		NORTH AMERICAN VERTICAL DATUM OF 1988
▽		ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
▼		GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
GNE		GROUNDWATER NOT ENCOUNTERED
CAVE-IN		BORING TERMINATED DUE TO CAVE-IN FROM GROUNDWATER INTRUSION
⊕		APPROXIMATE SPT BORING LOCATION
◉		APPROXIMATE PAVEMENT CORE LOCATION
▲		APPROXIMATE LBR SAMPLE LOCATION

℄ CONST. GMD CENTERLINE CONSTRUCTION OF GULF OF MEXICO DRIVE

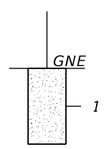
BOR # C-3
STA. 213+73
REF. ℄ CONST. GMD
OFF. 4' LT.
ELEV. 6.0
DATE 11/9/2021



BORING TERMINATED AT ELEVATION 3.0 FT (NAVD 88)

LATITUDE: N 27.43548
LONGITUDE: W 82.68572

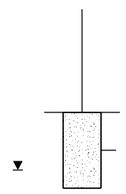
BOR # M-4
STA. 213+83
REF. ℄ CONST. GMD
OFF. 22' LT.
ELEV. 7.1
DATE 4/5/2025



BORING TERMINATED AT ELEVATION 2.1 FT (NAVD 88)

LATITUDE: N 27.43550
LONGITUDE: W 82.68578

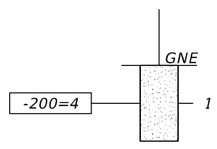
BOR # AB-214R
STA. 214+03
REF. ℄ CONST. GMD
OFF. 62' RT.
ELEV. 4.2
DATE 5/7/2025



BORING TERMINATED AT ELEVATION -0.8 FT (NAVD 88)

LATITUDE: N 27.43560
LONGITUDE: W 82.68554

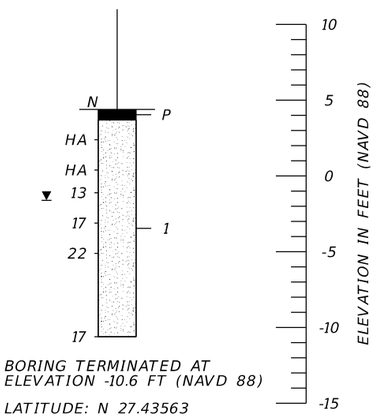
BOR # M-5
STA. 214+06
REF. ℄ CONST. GMD
OFF. 21' LT.
ELEV. 7.3
DATE 4/5/2025



BORING TERMINATED AT ELEVATION 2.3 FT (NAVD 88)

LATITUDE: N 27.43556
LONGITUDE: W 82.68579

BOR # WB-3
STA. 214+23
REF. ℄ CONST. GMD
OFF. 20' RT.
ELEV. 4.4
DATE 5/7/2025
DRILLER R. SCRUGGS
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED AT ELEVATION -10.6 FT (NAVD 88)

LATITUDE: N 27.43563
LONGITUDE: W 82.68568

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

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

ENGINEER OF RECORD

DANIEL R. RUEL, P.E.
LICENSE NUMBER: 82404
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637

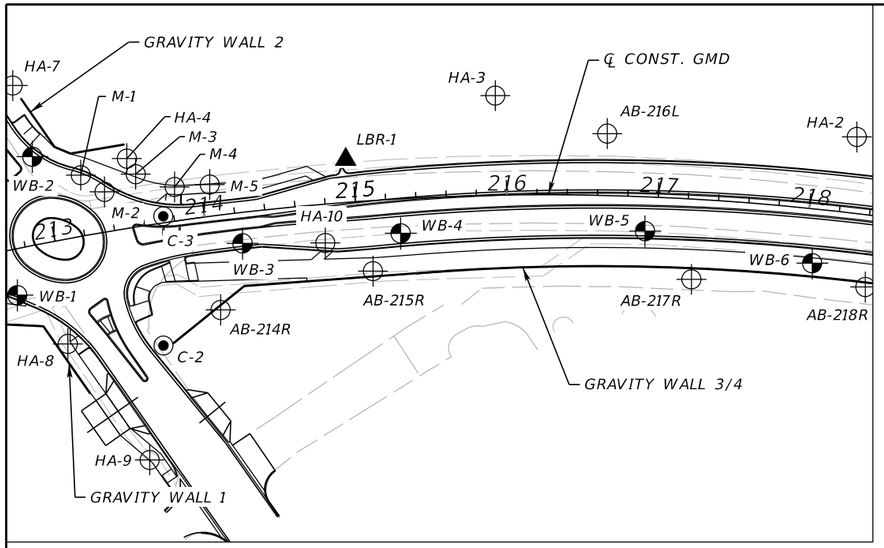
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-58-01

REPORT OF CORE BORINGS (5)

SHEET NO. 40

J:\6511\2021 Files\6511-21-321 LBK Roundabout Improve\ORD\6511-21-321\Geotechnical\AB0RRDRCB01.dgn : RCB05 [SHEET]
bsawaska 6/2/2025 12:54:28 PM



BORING LOCATION PLAN

0 20 100

Feet

NOTE:

BORING LOCATIONS WERE LOCATED IN THE FIELD BY A REPRESENTATIVE OF TIERRA USING HAND-HELD GLOBAL POSITIONING SYSTEM (GPS) EQUIPMENT WITH A MANUFACTURER'S REPORTED ACCURACY OF ± 10 FEET. THE STATION, OFFSET AND ELEVATION OF THE BORING LOCATIONS WERE DETERMINED UTILIZING THE GPS COORDINATES OBTAINED IN THE FIELD IN CONJUNCTION WITH PROJECT DESIGN FILES. THEREFORE, THE BORING LOCATIONS AND ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE.

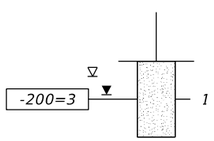
LEGEND

1	PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SAND TO SAND WITH SILT, OCCASIONALLY WIHT SHELL FRAGMENTS (A-1-b/A-3)
2	ORGANIC SILTY SAND (A-8)
3	PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SILTY SAND, OCCASIONALLY WITH SHELL FRAGMENTS (A-2-4)
4	PALE BROWN TO BROWN SANDY SILT, OCCASIONALLY WIHT SHELL FRAGMENTS (A-4)
P	ASPHALT PAVEMENT AND BASE MATERIAL
A-3	AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
-200	PERCENT PASSING #200 SIEVE
NMC	NATURAL MOISTURE CONTENT (%)
LL	LIQUID LIMIT (%)
PI	PLASTICITY INDEX (%)
OC	ORGANIC CONTENT (%)
NP	NON-PLASTIC
NAVD 88	NORTH AMERICAN VERTICAL DATUM OF 1988
▽	ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
▼	GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
GNE	GROUNDWATER NOT ENCOUNTERED
CAVE-IN	BORING TERMINATED DUE TO CAVE-IN FROM GROUNDWATER INTRUSION
⊕	APPROXIMATE SPT BORING LOCATION
◉	APPROXIMATE PAVEMENT CORE LOCATION
▲	APPROXIMATE LBR SAMPLE LOCATION

℄ CONST. GMD CENTERLINE CONSTRUCTION OF GULF OF MEXICO DRIVE

BOR # HA-10
STA. 214+78
REF. ℄ CONST. GMD
OFF. 26' RT.
ELEV. 3.5
DATE 12/3/2021

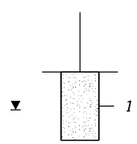




BORING TERMINATED AT ELEVATION -1.5 FT (NAVD 88)

LATITUDE: N 27.43578
LONGITUDE: W 82.68569

BOR # AB-215R
STA. 215+09
REF. ℄ CONST. GMD
OFF. 47' RT.
ELEV. 2.8
DATE 5/7/2025

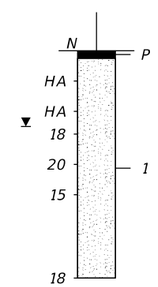


CAVE-IN

BORING TERMINATED AT ELEVATION -1.7 FT (NAVD 88)

LATITUDE: N 27.43587
LONGITUDE: W 82.68565

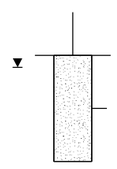
BOR # WB-4
STA. 215+29
REF. ℄ CONST. GMD
OFF. 23' RT.
ELEV. 4.2
DATE 5/7/2025
DRILLER R. SCRUGGS
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED AT ELEVATION -10.8 FT (NAVD 88)

LATITUDE: N 27.43592
LONGITUDE: W 82.68573

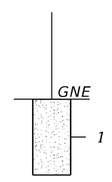
BOR # HA-3
STA. 215+94
REF. ℄ CONST. GMD
OFF. 66' LT.
ELEV. 3.9
DATE 12/3/2021



BORING TERMINATED AT ELEVATION -3.1 FT (NAVD 88)

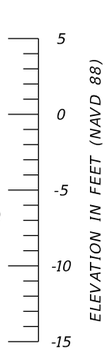
LATITUDE: N 27.43607
LONGITUDE: W 82.68602

BOR # AB-216L
STA. 216+65
REF. ℄ CONST. GMD
OFF. 41' LT.
ELEV. 1.0
DATE 4/5/2025



BORING TERMINATED AT ELEVATION -4.0 FT (NAVD 88)

LATITUDE: N 27.43627
LONGITUDE: W 82.68597



	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

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

ENGINEER OF RECORD

DANIEL R. RUEL, P.E.
LICENSE NUMBER: 82404
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637

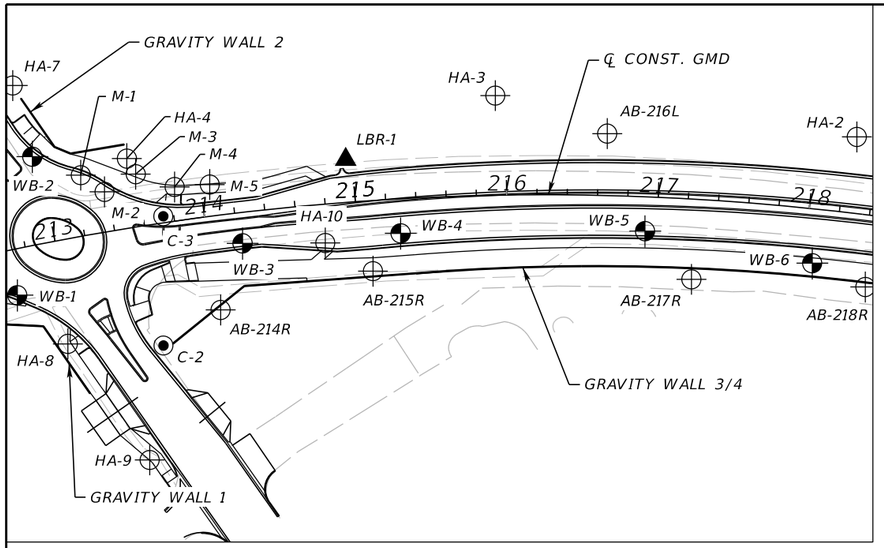
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-58-01

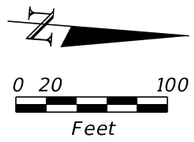
REPORT OF CORE BORINGS (6)

SHEET NO. 41

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bsawaska 6/2/2025 12:54:29 PM



BORING LOCATION PLAN



NOTE:

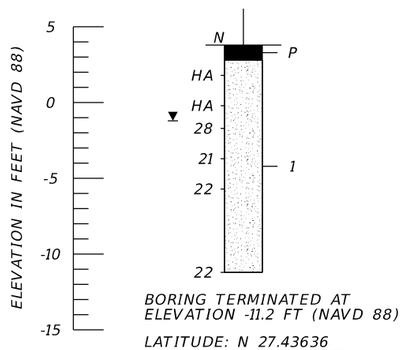
BORING LOCATIONS WERE LOCATED IN THE FIELD BY A REPRESENTATIVE OF TIERRA USING HAND-HELD GLOBAL POSITIONING SYSTEM (GPS) EQUIPMENT WITH A MANUFACTURER'S REPORTED ACCURACY OF ± 10 FEET. THE STATION, OFFSET AND ELEVATION OF THE BORING LOCATIONS WERE DETERMINED UTILIZING THE GPS COORDINATES OBTAINED IN THE FIELD IN CONJUNCTION WITH PROJECT DESIGN FILES. THEREFORE, THE BORING LOCATIONS AND ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

1		PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SAND TO SAND WITH SILT, OCCASIONALLY WIHT SHELL FRAGMENTS (A-1-b/A-3)
2		ORGANIC SILTY SAND (A-8)
3		PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SILTY SAND, OCCASIONALLY WITH SHELL FRAGMENTS (A-2-4)
4		PALE BROWN TO BROWN SANDY SILT, OCCASIONALLY WIHT SHELL FRAGMENTS (A-4)
P		ASPHALT PAVEMENT AND BASE MATERIAL
A-3		AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
-200		PERCENT PASSING #200 SIEVE
NMC		NATURAL MOISTURE CONTENT (%)
LL		LIQUID LIMIT (%)
PI		PLASTICITY INDEX (%)
OC		ORGANIC CONTENT (%)
NP		NON-PLASTIC
NAVD 88		NORTH AMERICAN VERTICAL DATUM OF 1988
▽		ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
▼		GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
GNE		GROUNDWATER NOT ENCOUNTERED
CAVE-IN		BORING TERMINATED DUE TO CAVE-IN FROM GROUNDWATER INTRUSION
⊕		APPROXIMATE SPT BORING LOCATION
◉		APPROXIMATE PAVEMENT CORE LOCATION
▲		APPROXIMATE LBR SAMPLE LOCATION

℄ CONST. GMD — CENTERLINE CONSTRUCTION OF GULF OF MEXICO DRIVE

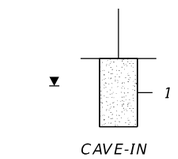
BOR # WB-5
STA. 216+92
REF. ℄ CONST. GMD
OFF. 23' RT.
ELEV. 3.8
DATE 5/7/2025
DRILLER R. SCRUGGS
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED AT ELEVATION -11.2 FT (NAVD 88)

LATITUDE: N 27.43636
LONGITUDE: W 82.68577

BOR # AB-217R
STA. 217+25
REF. ℄ CONST. GMD
OFF. 53' RT.
ELEV. 2.9
DATE 5/7/2025

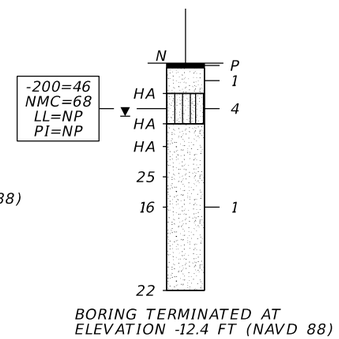


CAVE-IN

BORING TERMINATED AT ELEVATION -1.6 FT (NAVD 88)

LATITUDE: N 27.43645
LONGITUDE: W 82.68569

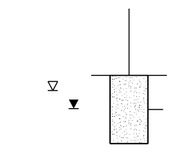
BOR # WB-6
STA. 218+06
REF. ℄ CONST. GMD
OFF. 36' RT.
ELEV. 2.6
DATE 5/7/2025
DRILLER M. ATKINSON
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED AT ELEVATION -12.4 FT (NAVD 88)

LATITUDE: N 27.43667
LONGITUDE: W 82.68574

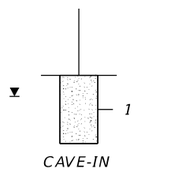
BOR # HA-2
STA. 218+26
REF. ℄ CONST. GMD
OFF. 50' LT.
ELEV. 1.8
DATE 12/3/2021



BORING TERMINATED AT ELEVATION -2.7 FT (NAVD 88)

LATITUDE: N 27.43673
LONGITUDE: W 82.68600

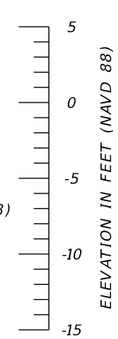
BOR # AB-218R
STA. 218+43
REF. ℄ CONST. GMD
OFF. 47' RT.
ELEV. 1.8
DATE 5/7/2025



CAVE-IN

BORING TERMINATED AT ELEVATION -2.7 FT (NAVD 88)

LATITUDE: N 27.43677
LONGITUDE: W 82.68570



GRANULAR MATERIALS- RELATIVE DENSITY	SAFETY HAMMER SPT N-VALUE (BLOWS/FT.)	AUTOMATIC HAMMER SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	**SPT N-VALUE (BLOWS/FT.)**	**SPT N-VALUE (BLOWS/FT.)**
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

DANIEL R. RUEL, P.E.
LICENSE NUMBER: 82404
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

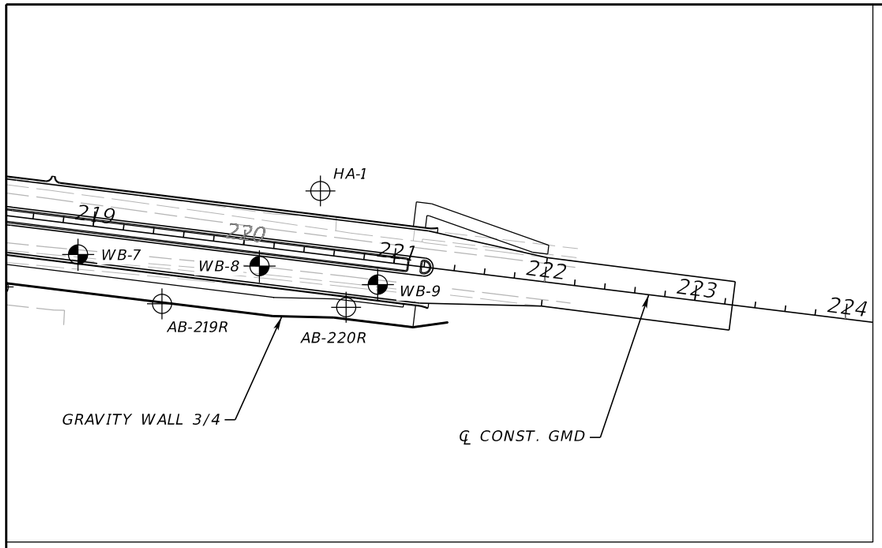
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-58-01

REPORT OF CORE BORINGS (7)

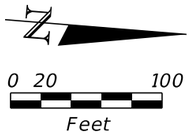
SHEET NO. 42

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

J:\6511\2021 Files\6511-21-321 LBK Roundabout Improve\ORD\6511-21-321\Geotechnical\AB0RRDRCB01.dgn : RCB07 [SHEET]
bsawaska 6/2/2025 12:54:30 PM



BORING LOCATION PLAN



NOTE:

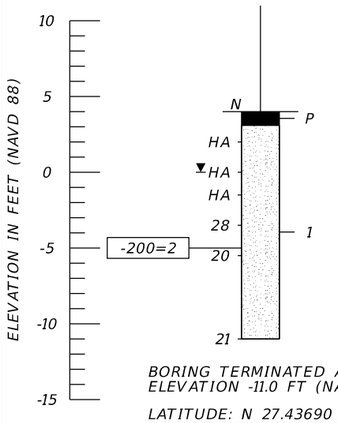
BORING LOCATIONS WERE LOCATED IN THE FIELD BY A REPRESENTATIVE OF TIERRA USING HAND-HELD GLOBAL POSITIONING SYSTEM (GPS) EQUIPMENT WITH A MANUFACTURER'S REPORTED ACCURACY OF ± 10 FEET. THE STATION, OFFSET AND ELEVATION OF THE BORING LOCATIONS WERE DETERMINED UTILIZING THE GPS COORDINATES OBTAINED IN THE FIELD IN CONJUNCTION WITH PROJECT DESIGN FILES. THEREFORE, THE BORING LOCATIONS AND ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

1	PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SAND TO SAND WITH SILT, OCCASIONALLY WIHT SHELL FRAGMENTS (A-1-b/A-3)
2	ORGANIC SILTY SAND (A-8)
3	PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SILTY SAND, OCCASIONALLY WITH SHELL FRAGMENTS (A-2-4)
4	PALE BROWN TO BROWN SANDY SILT, OCCASIONALLY WIHT SHELL FRAGMENTS (A-4)
P	ASPHALT PAVEMENT AND BASE MATERIAL
A-3	AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
-200	PERCENT PASSING #200 SIEVE
NMC	NATURAL MOISTURE CONTENT (%)
LL	LIQUID LIMIT (%)
PI	PLASTICITY INDEX (%)
OC	ORGANIC CONTENT (%)
NP	NON-PLASTIC
NAVD 88	NORTH AMERICAN VERTICAL DATUM OF 1988
▽	ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
▼	GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
GNE	GROUNDWATER NOT ENCOUNTERED
CAVE-IN	BORING TERMINATED DUE TO CAVE-IN FROM GROUNDWATER INTRUSION
⊕	APPROXIMATE SPT BORING LOCATION
◉	APPROXIMATE PAVEMENT CORE LOCATION
▲	APPROXIMATE LBR SAMPLE LOCATION

℄ CONST. GMD CENTERLINE CONSTRUCTION OF GULF OF MEXICO DRIVE

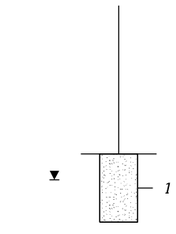
BOR # WB-7
STA. 218+92
REF. ℄ CONST. GMD
OFF. 20' RT.
ELEV. 4.0
DATE 5/7/2025
DRILLER M. ATKINSON
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED AT ELEVATION -11.0 FT (NAVD 88)

LATITUDE: N 27.43690
LONGITUDE: W 82.68578

BOR # AB-219R
STA. 219+51
REF. ℄ CONST. GMD
OFF. 45' RT.
ELEV. 1.2
DATE 5/7/2025

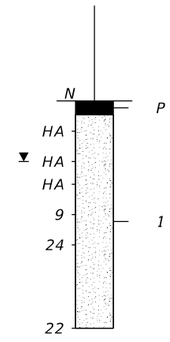


CAVE-IN

BORING TERMINATED AT ELEVATION -3.3 FT (NAVD 88)

LATITUDE: N 27.43706
LONGITUDE: W 82.68569

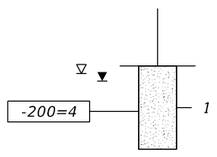
BOR # WB-8
STA. 220+12
REF. ℄ CONST. GMD
OFF. 13' RT.
ELEV. 4.7
DATE 5/7/2025
DRILLER M. ATKINSON
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED AT ELEVATION -10.3 FT (NAVD 88)

LATITUDE: N 27.43723
LONGITUDE: W 82.68579

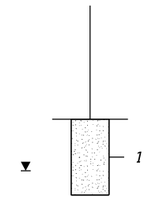
BOR # HA-1
STA. 220+46
REF. ℄ CONST. GMD
OFF. 41' LT.
ELEV. 1.2
DATE 12/3/2021



BORING TERMINATED AT ELEVATION -4.3 FT (NAVD 88)

LATITUDE: N 27.43733
LONGITUDE: W 82.68595

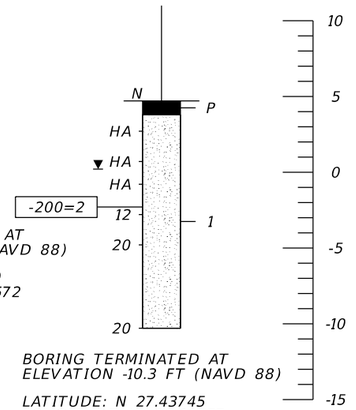
BOR # AB-220R
STA. 220+72
REF. ℄ CONST. GMD
OFF. 33' RT.
ELEV. 3.5
DATE 5/7/2025



BORING TERMINATED AT ELEVATION -1.5 FT (NAVD 88)

LATITUDE: N 27.43740
LONGITUDE: W 82.68572

BOR # WB-9
STA. 220+91
REF. ℄ CONST. GMD
OFF. 15' RT.
ELEV. 4.7
DATE 5/7/2025
DRILLER M. ATKINSON
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED AT ELEVATION -10.3 FT (NAVD 88)

LATITUDE: N 27.43745
LONGITUDE: W 82.68577

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

DANIEL R. RUEL, P.E.
LICENSE NUMBER: 82404
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

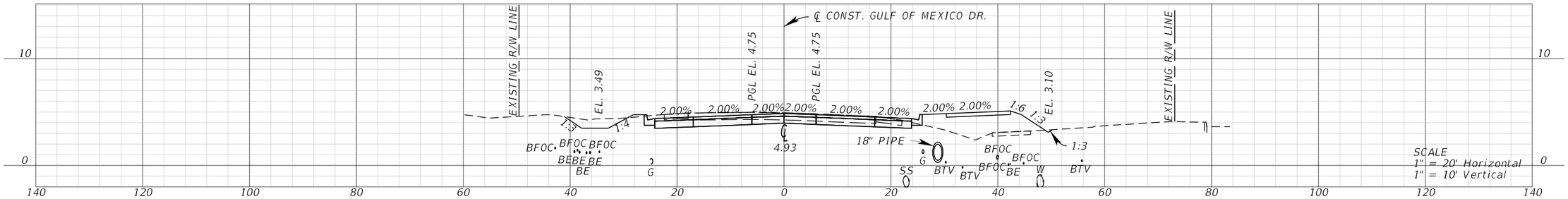
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-58-01

REPORT OF CORE BORINGS (8)

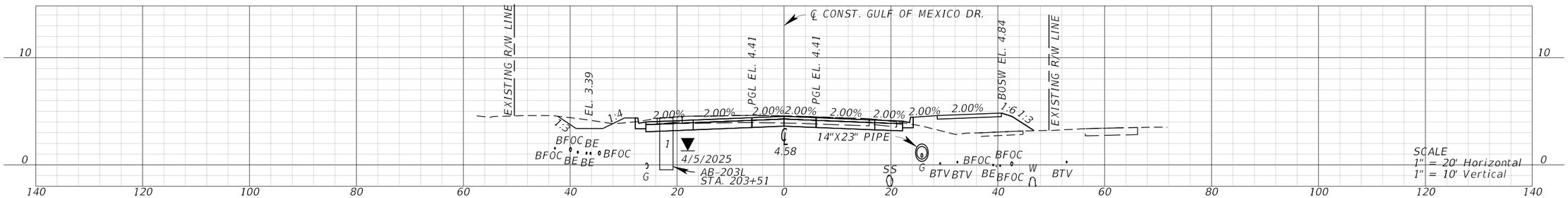
SHEET NO. 43

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

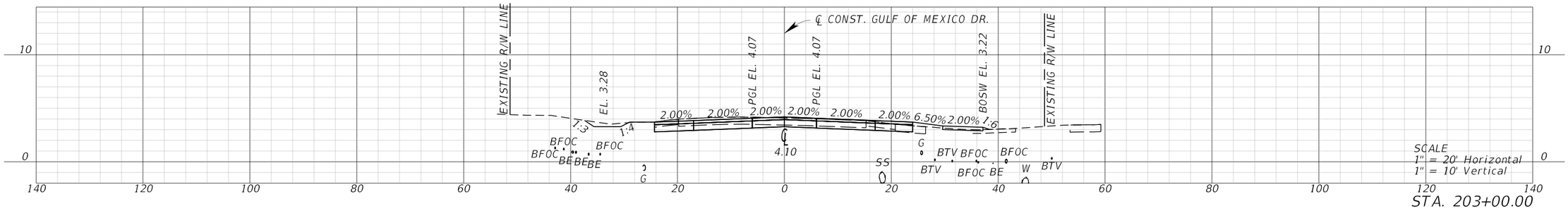
J:\6511\2021 Files\6511-21-321 LBK Roundabout Improve\ORD\6511-21-321\Geotechnical\AB0RRDRCB01.dgn : RCB08 [SHEET]
bsawaska 6/2/2025 12:54:30 PM



STA. 204+00.00



STA. 203+50.00

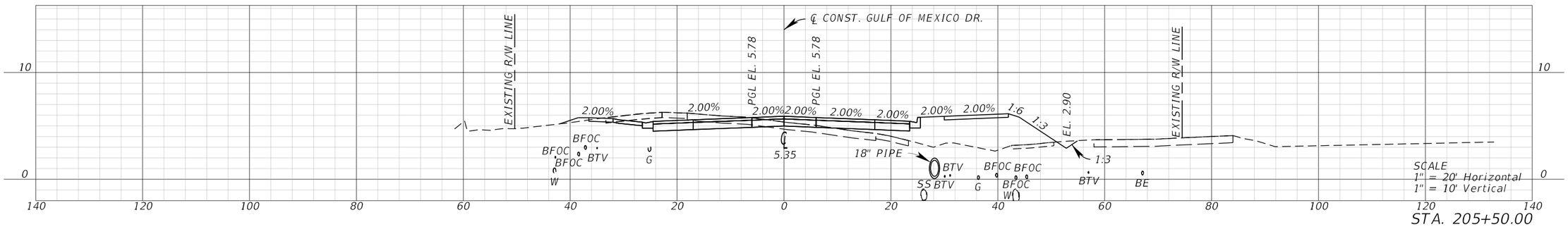


STA. 203+00.00

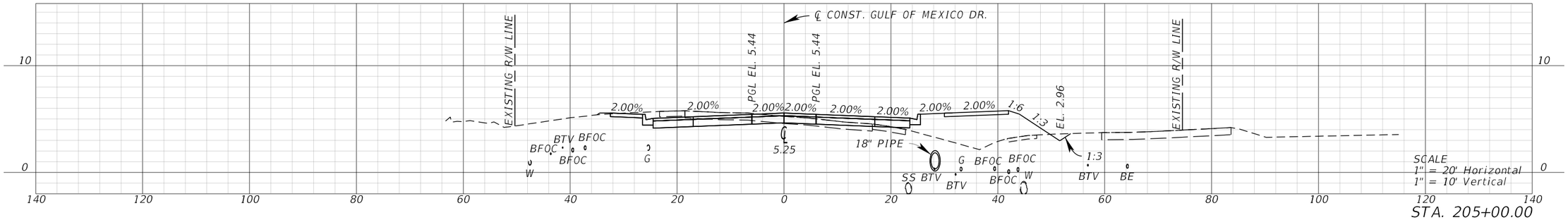
BEGIN PROJECT 200+80.00
BEGIN EARTHWORK 203+00.00

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		44
					SR 789	MANATEE	453730-1-52-01		

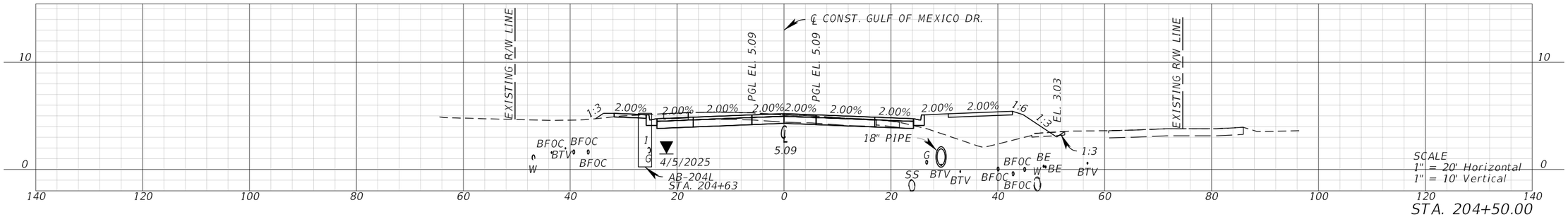
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STA. 205+50.00



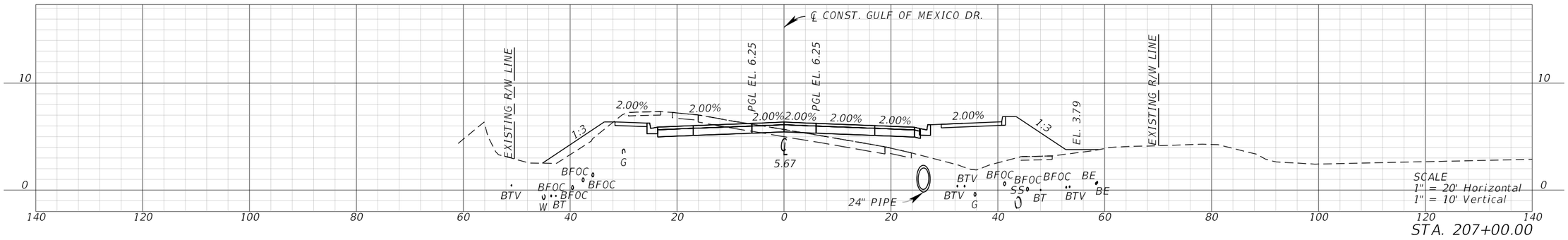
STA. 205+00.00



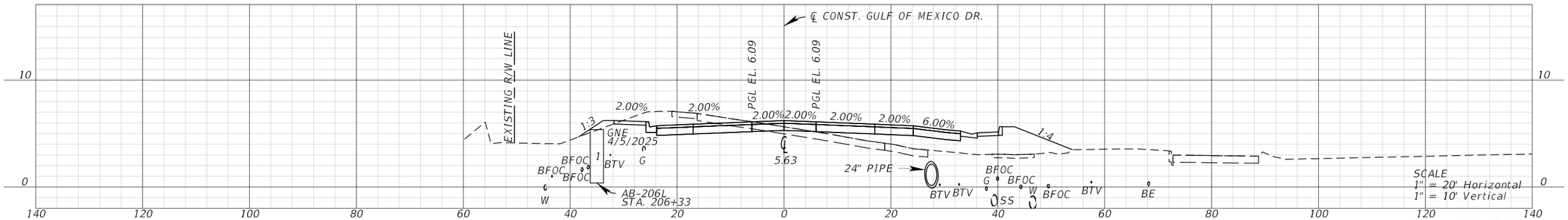
STA. 204+50.00

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		45
					SR 789	MANATEE	453730-1-52-01		

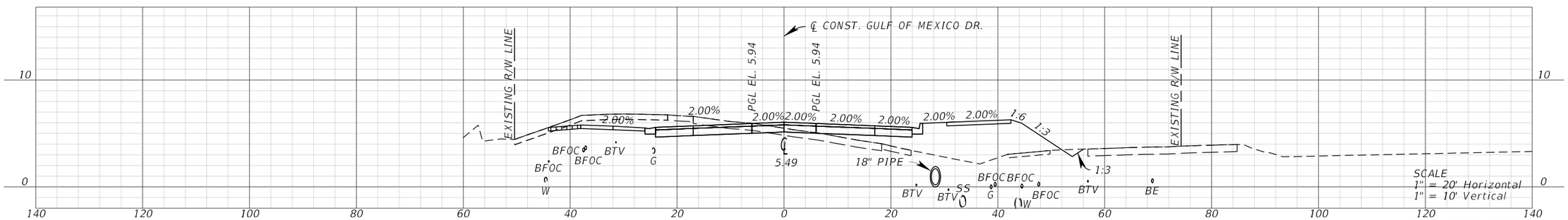
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STA. 207+00.00



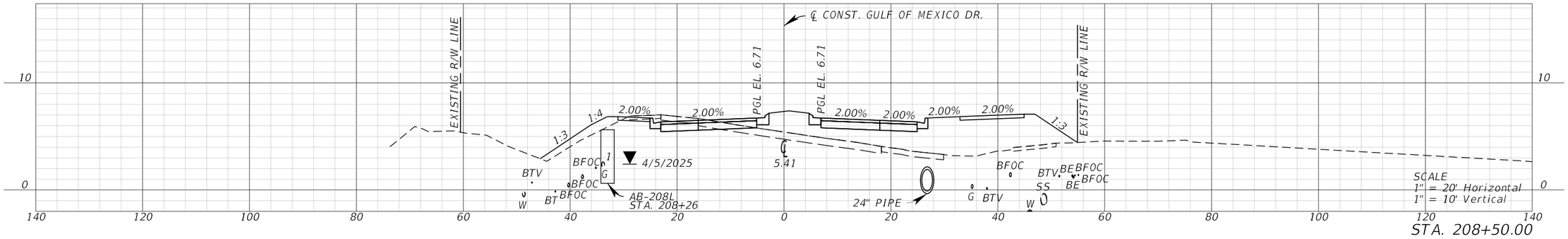
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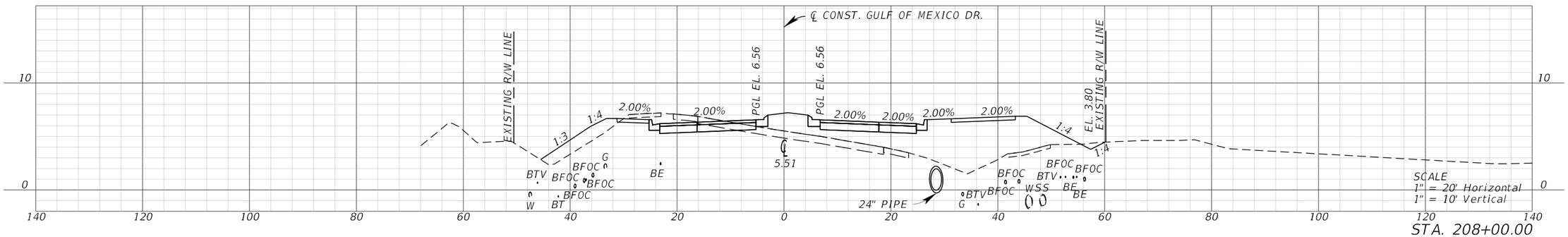
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		46
					SR 789	MANATEE	453730-1-52-01		

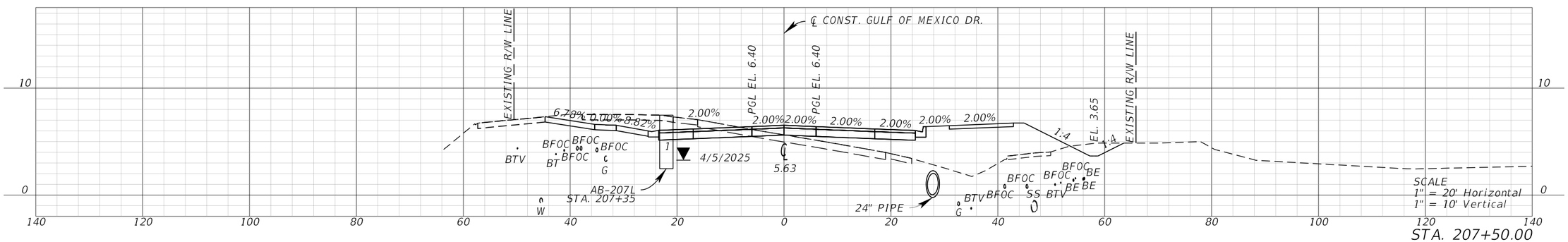
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STA. 208+50.00



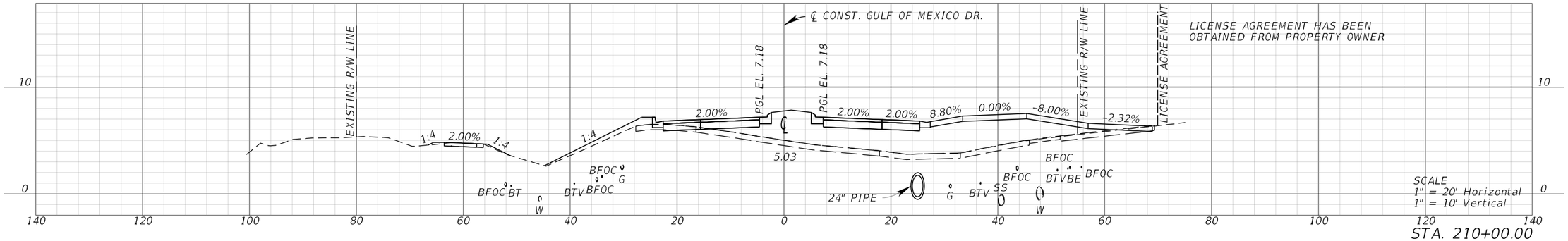
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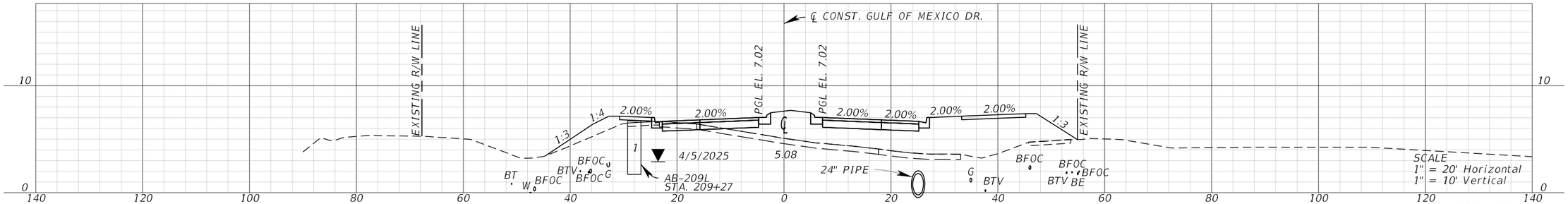
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		47
					SR 789	MANATEE	453730-1-52-01		

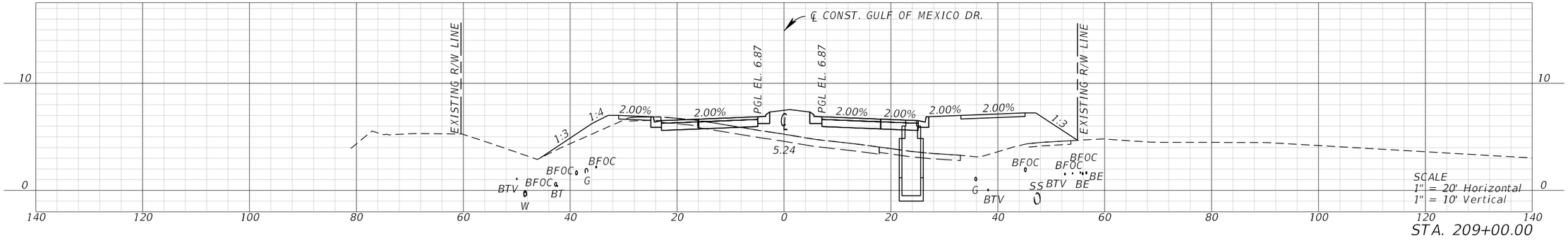
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STA. 210+00.00



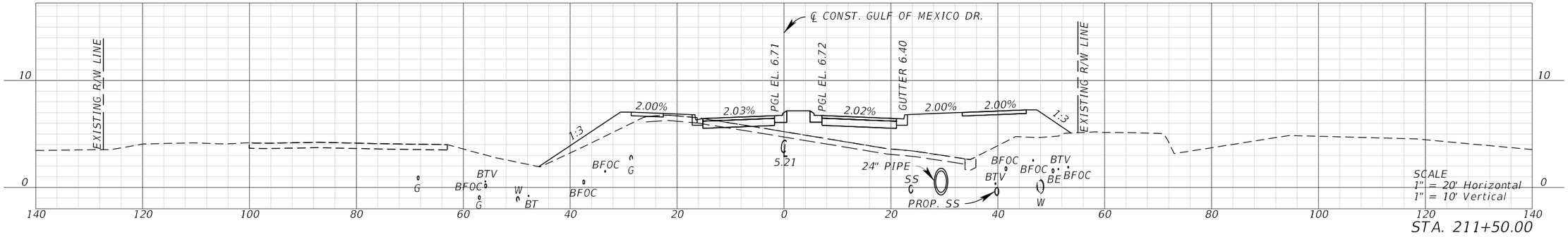
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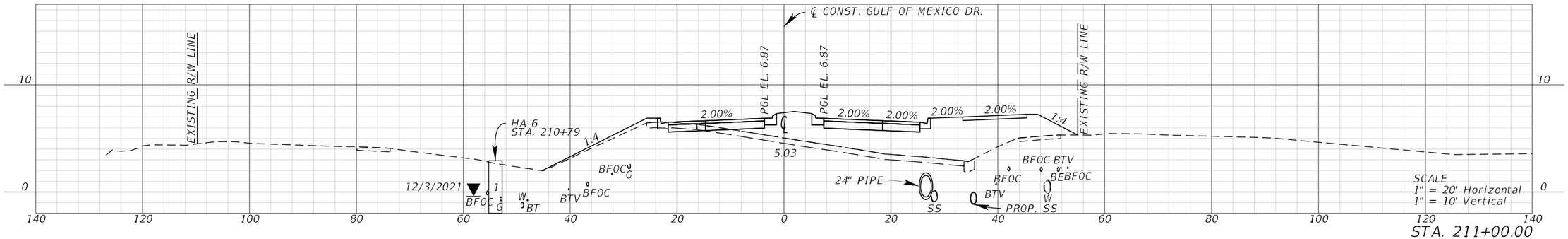
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		48
					SR 789	MANATEE	453730-1-52-01		

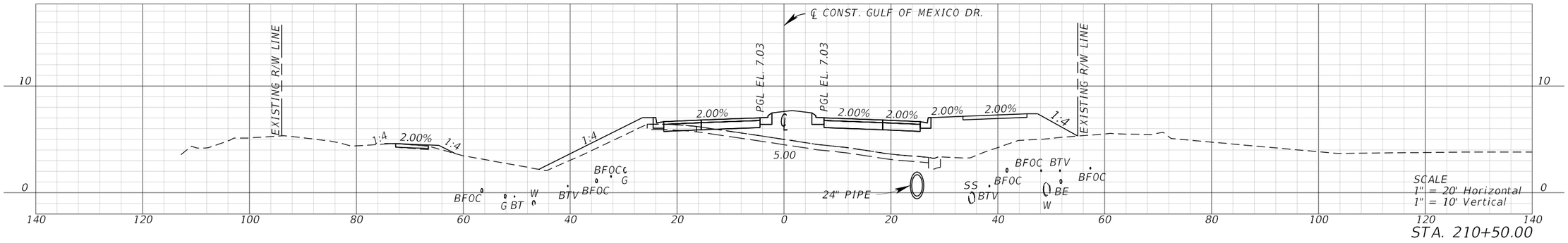
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STA. 211+50.00



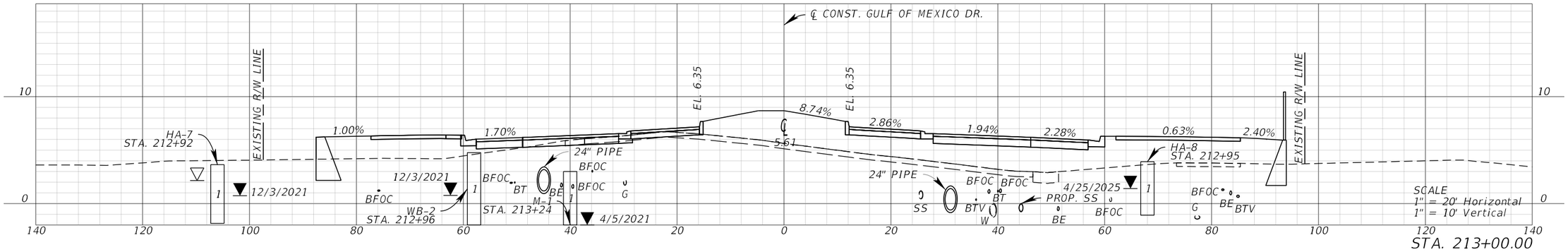
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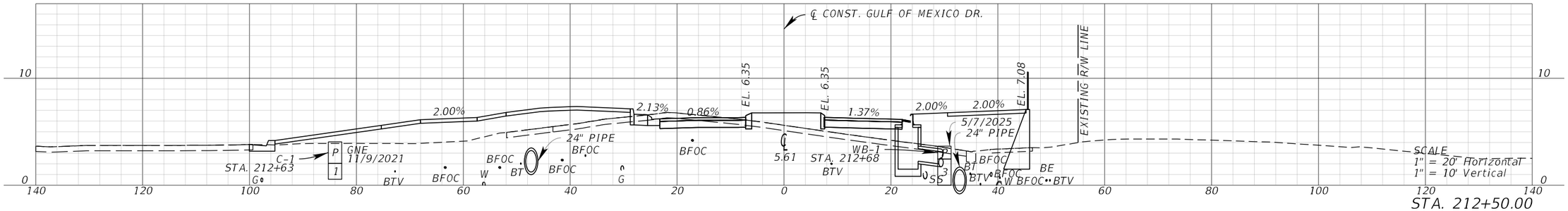


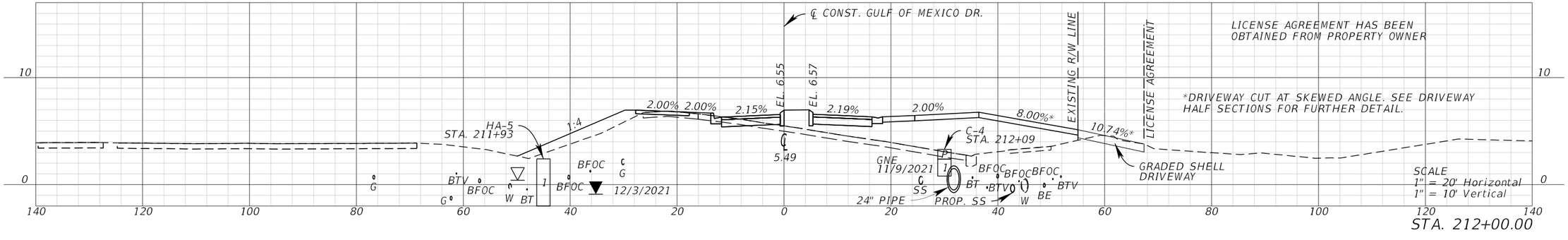
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		49
					SR 789	MANATEE	453730-1-52-01		

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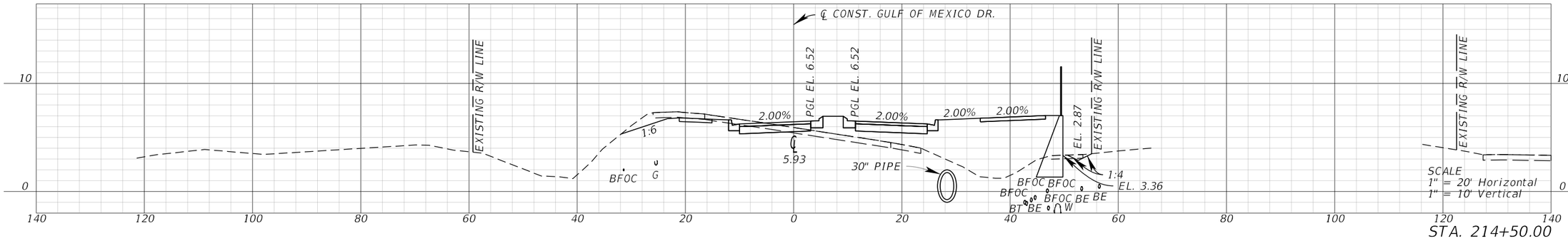




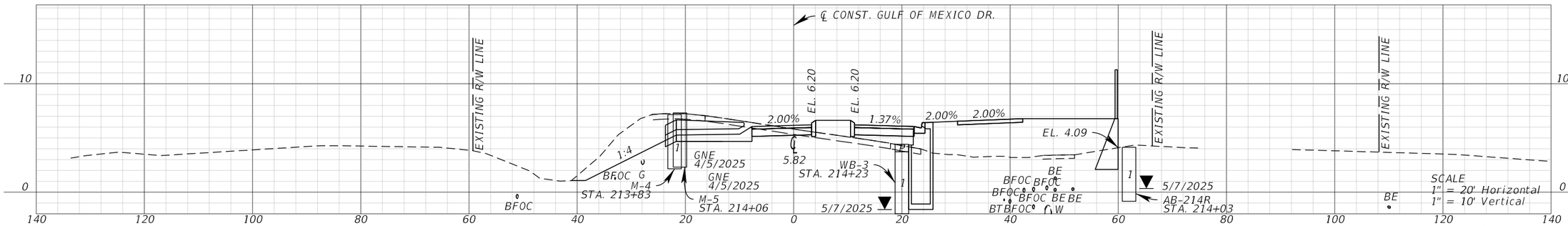


REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		50
					SR 789	MANATEE	453730-1-52-01		

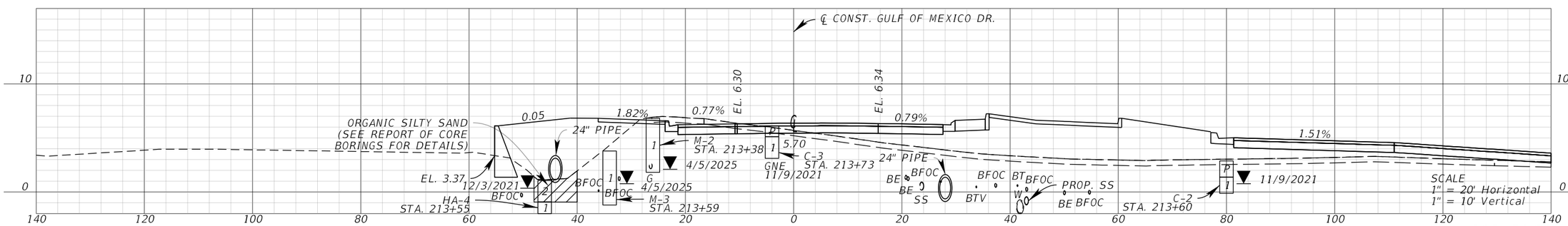
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STA. 214+50.00



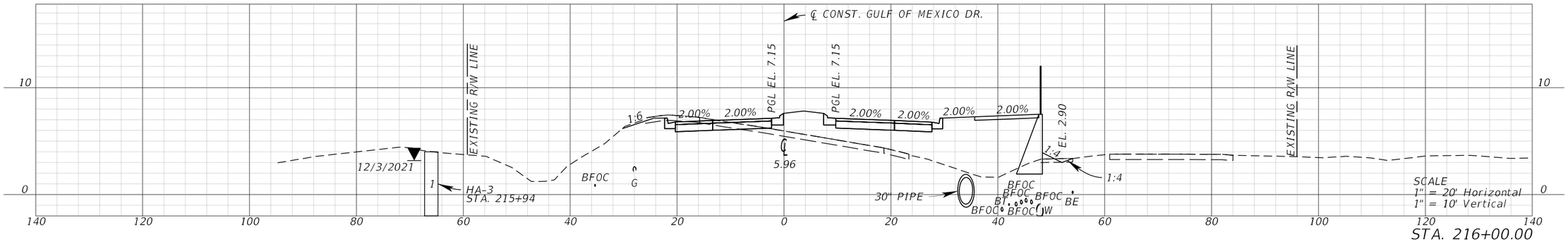
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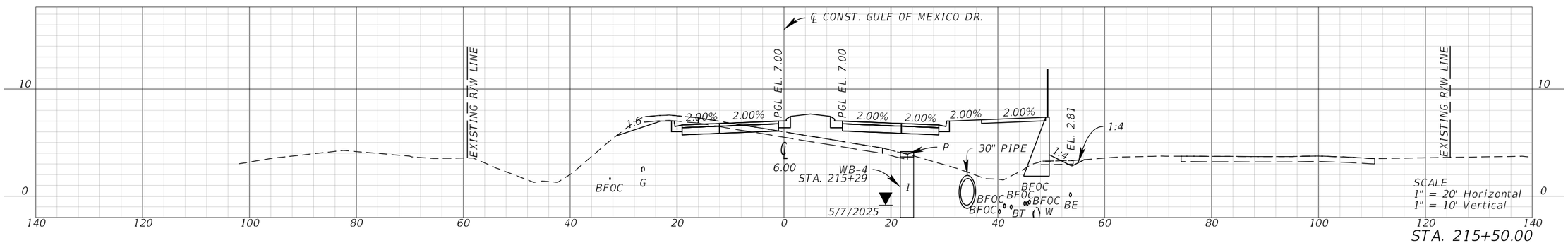
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		51
					SR 789	MANATEE	453730-1-52-01		

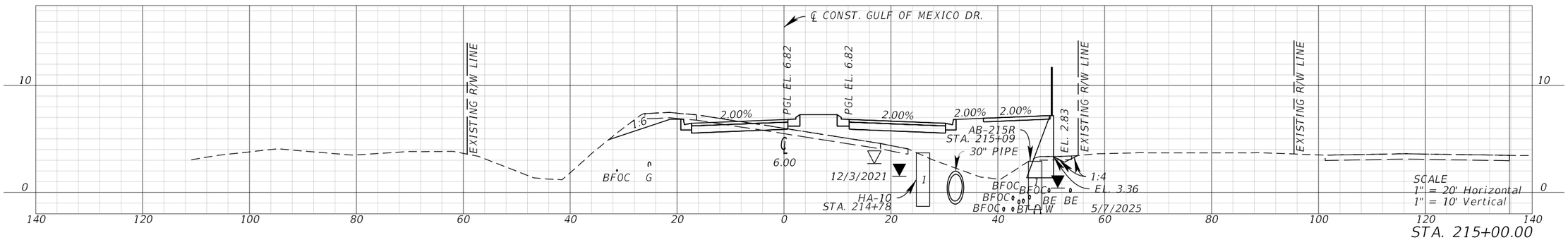
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STA. 216+00.00



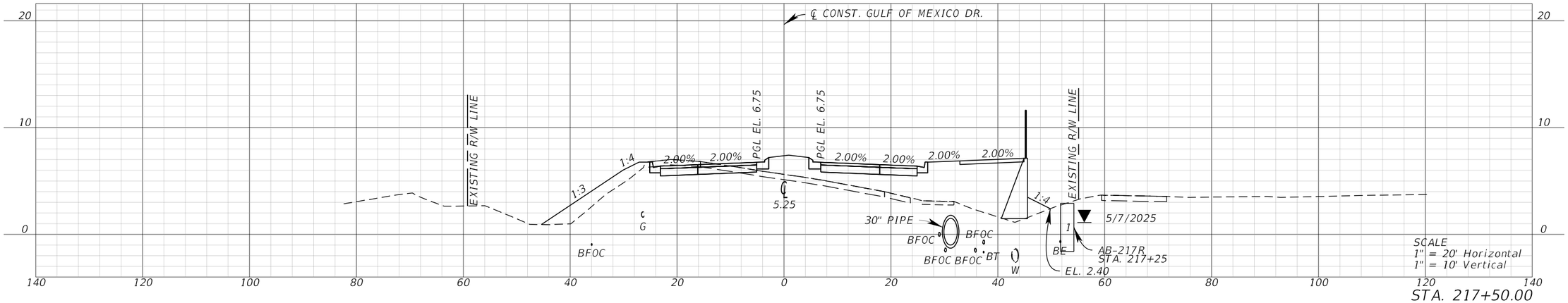
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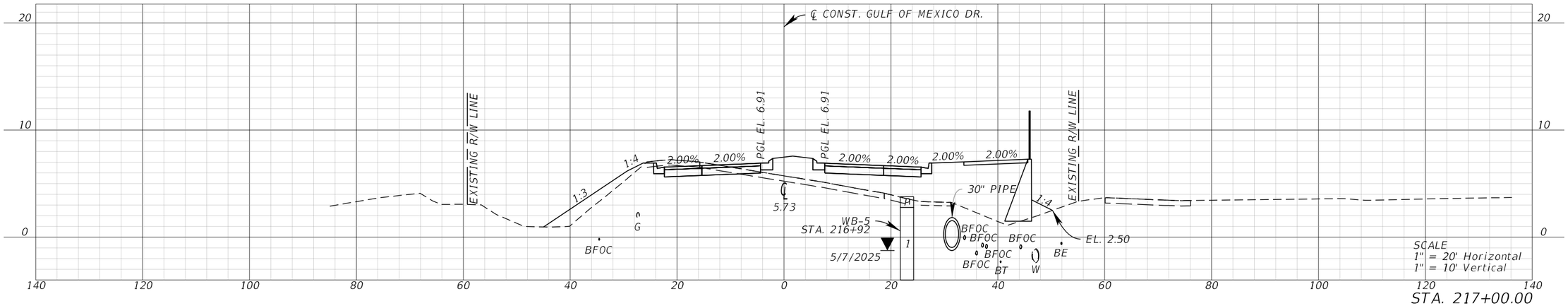
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		52
					SR 789	MANATEE	453730-1-52-01		

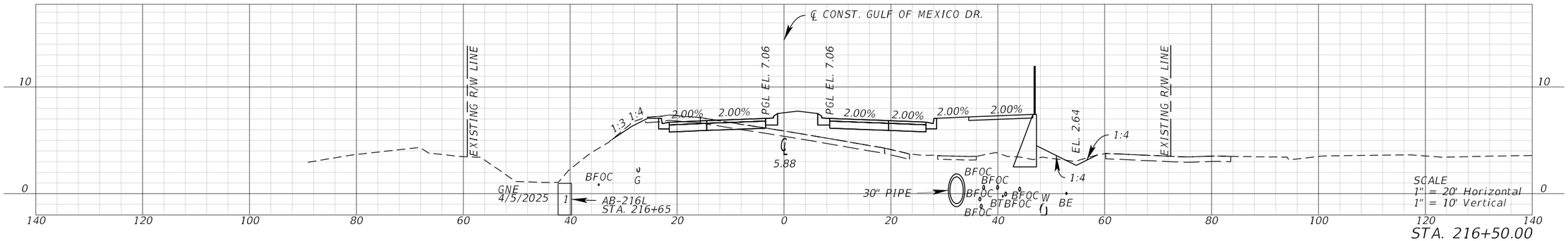
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



STA. 217+50.00



STA. 217+00.00



STA. 216+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

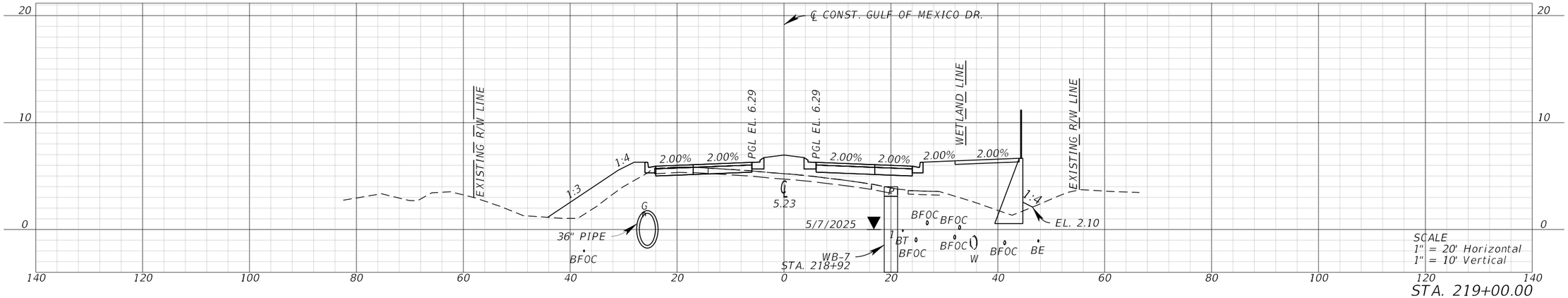
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

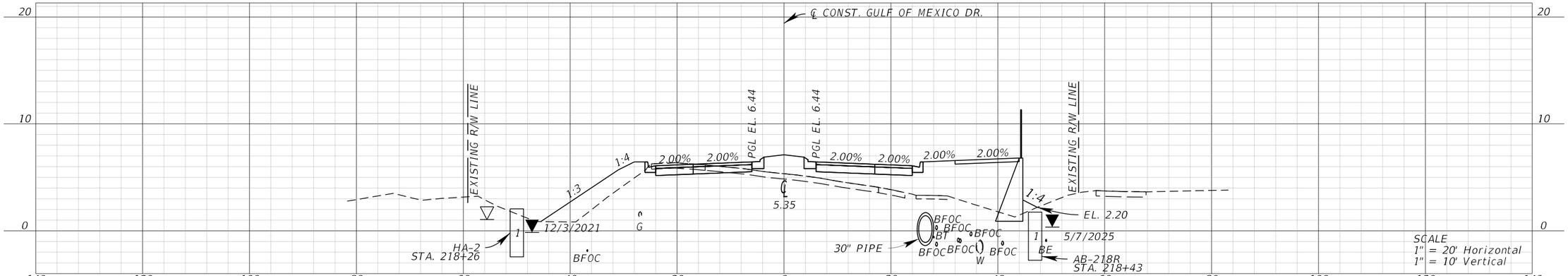
CROSS SECTIONS

SHEET NO.
53

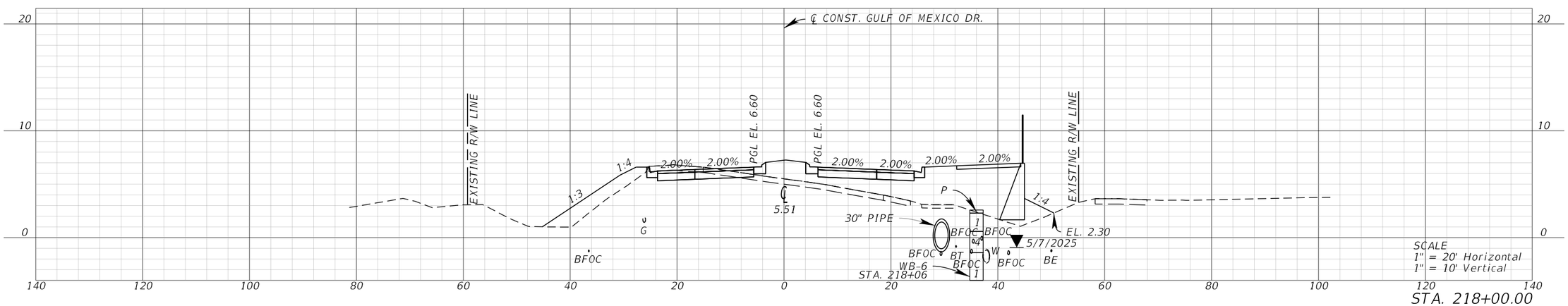
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



STA. 219+00.00



STA. 218+50.00



STA. 218+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

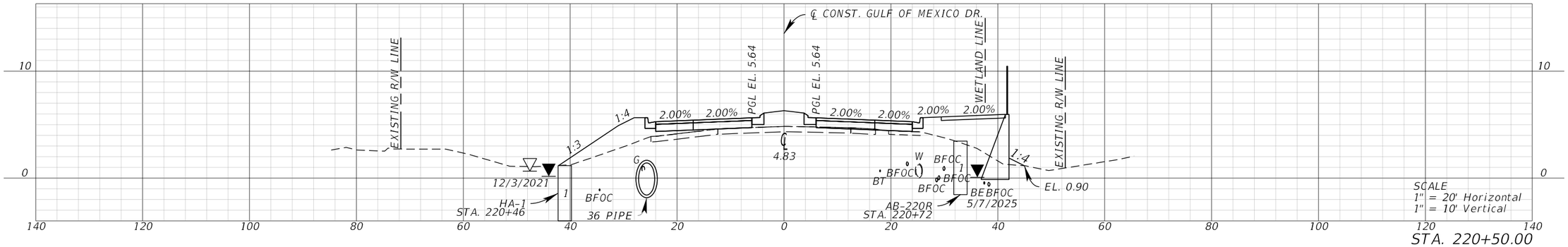
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

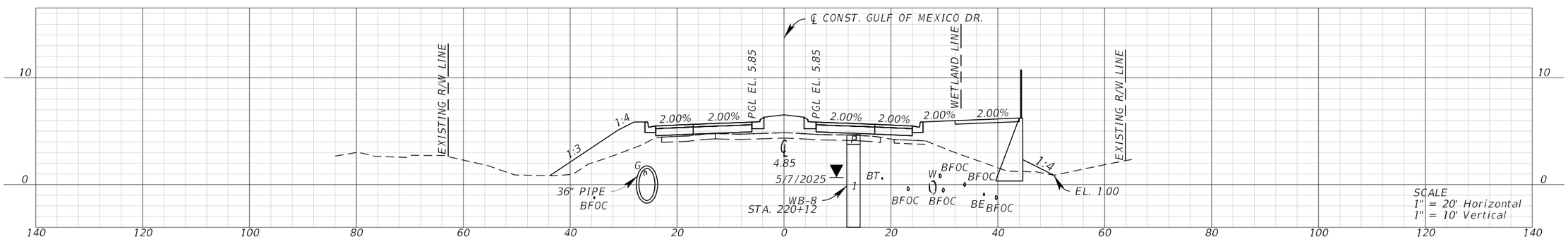
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

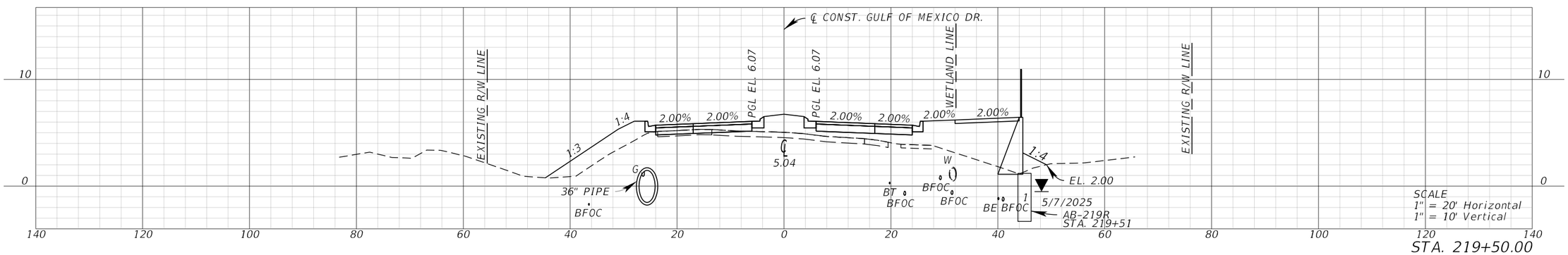
CROSS SECTIONS

SHEET NO. 54

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



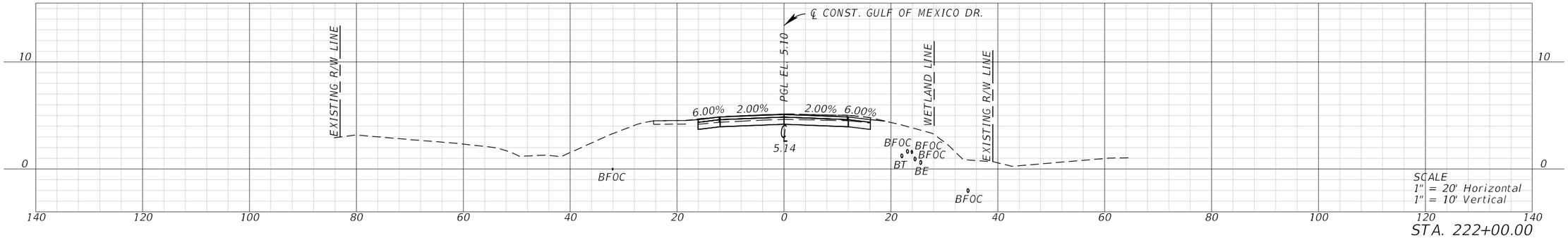




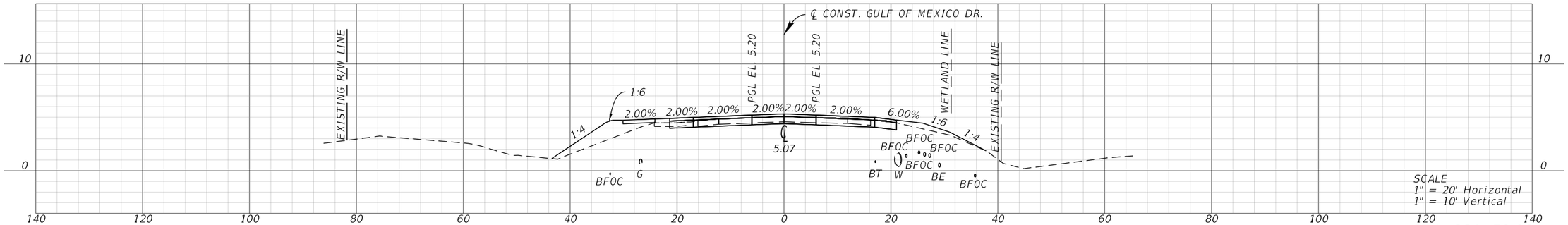
REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		55
					SR 789	MANATEE	453730-1-52-01		

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

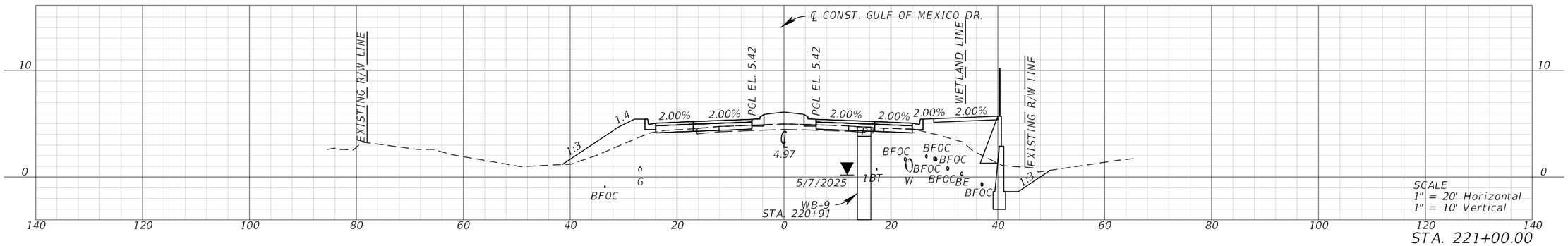
END PROJECT 223+25.00
END EARTHWORK 222+00.00



STA. 222+00.00



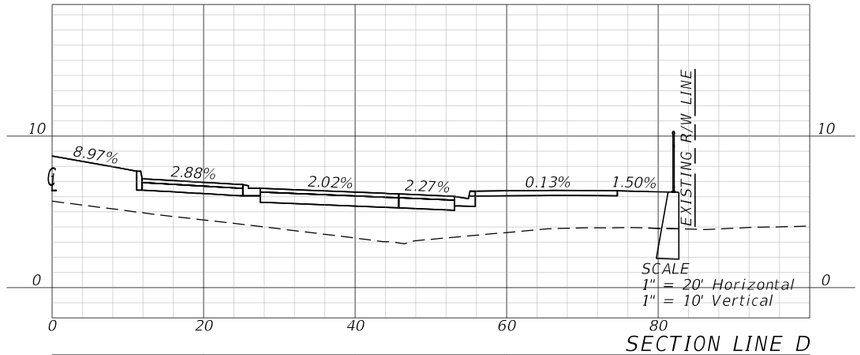
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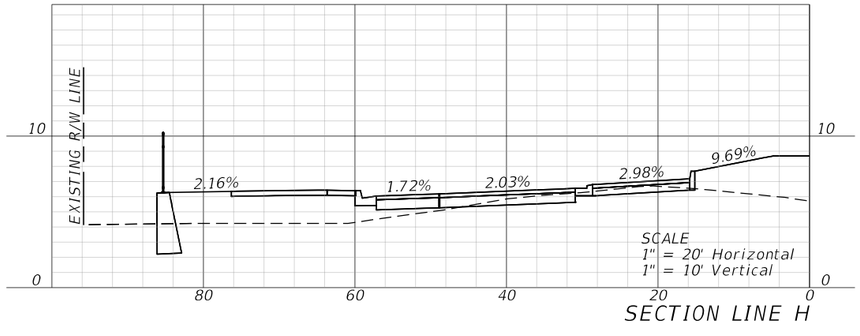
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		56
					SR 789	MANATEE	453730-1-52-01		

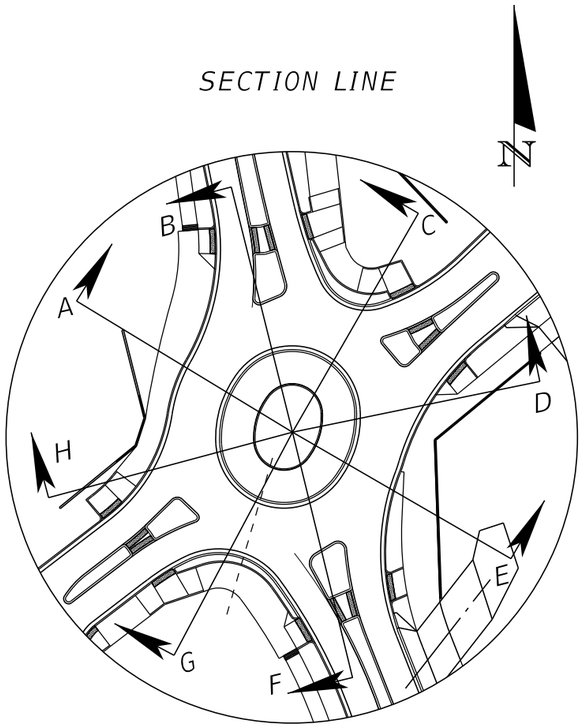
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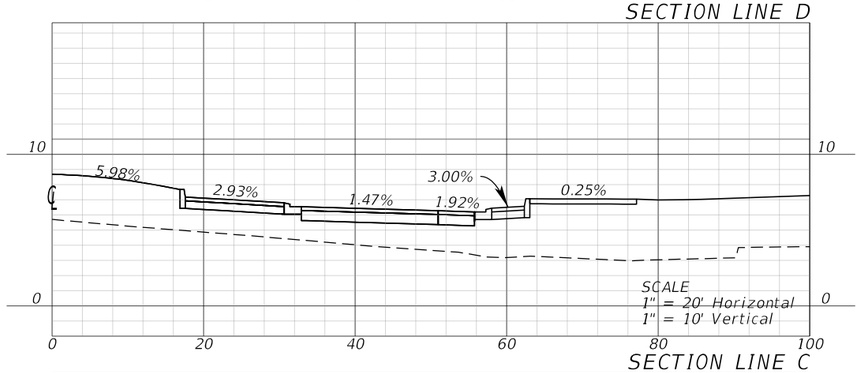


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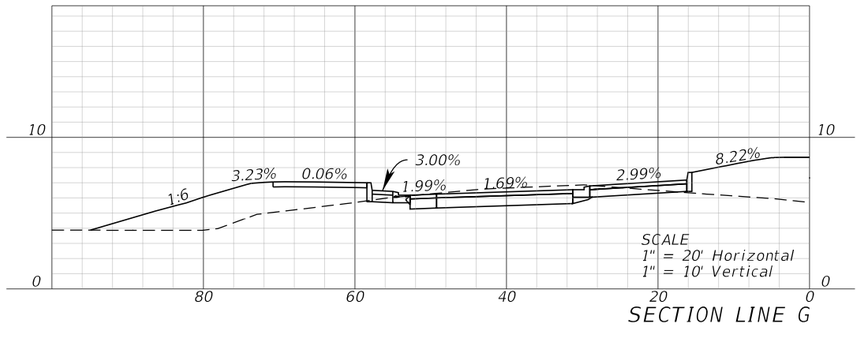


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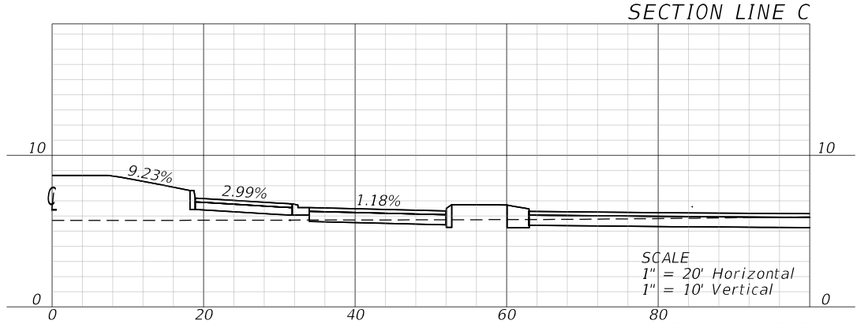




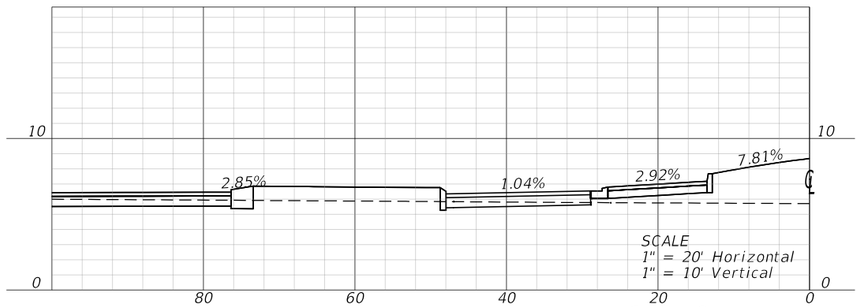
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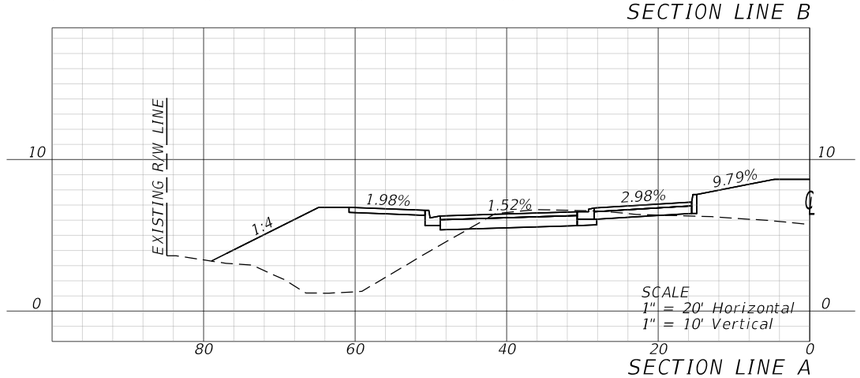
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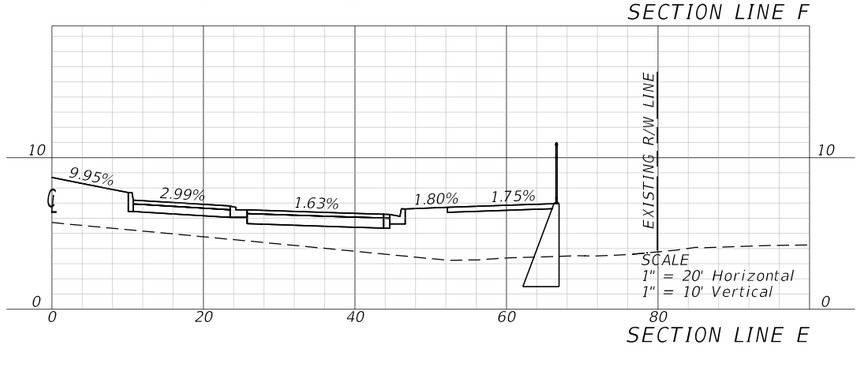
SECTION LINE B



SECTION LINE F



SECTION LINE A



SECTION LINE E

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES,INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

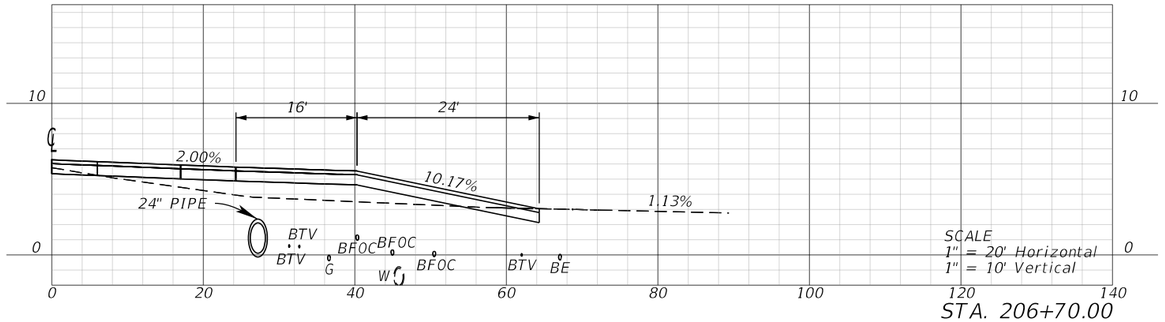
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

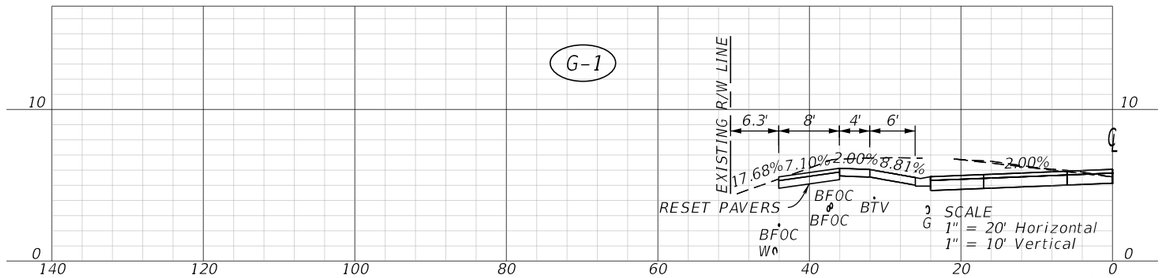
CIRCULATING ROADWAY CROSS SECTIONS

SHEET NO. 57

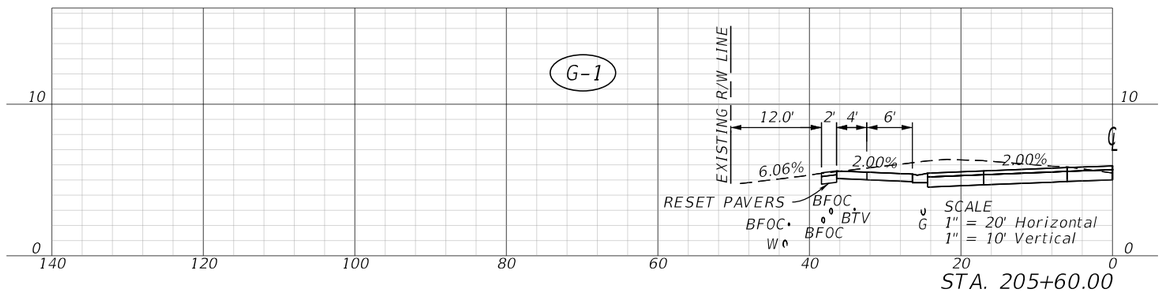
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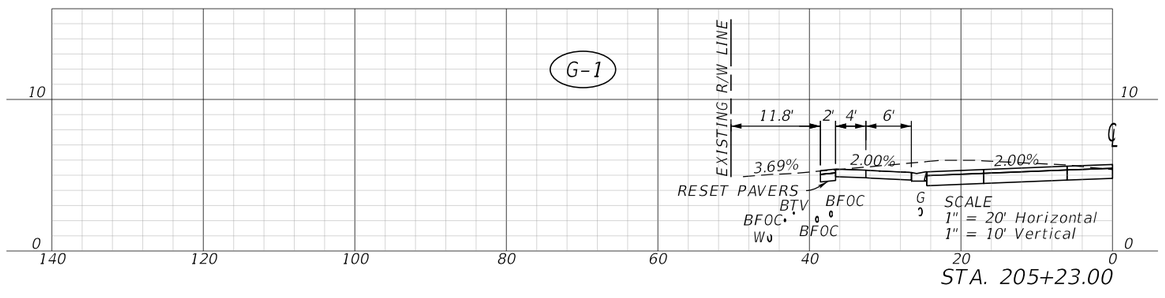
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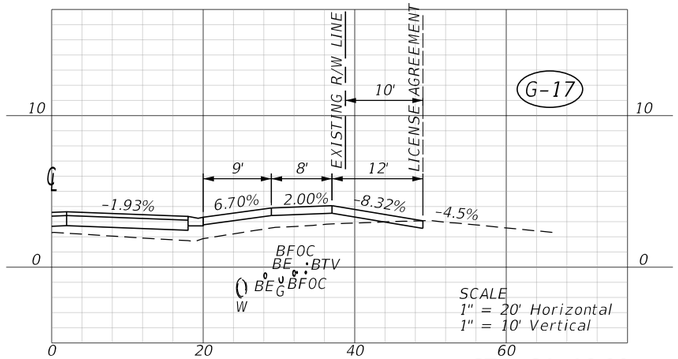
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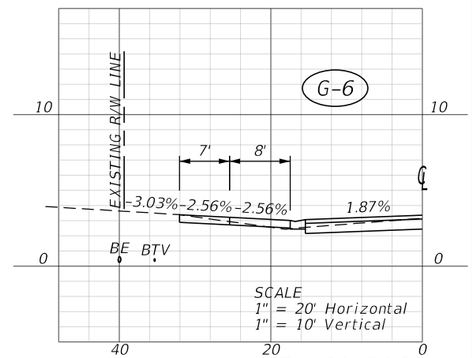
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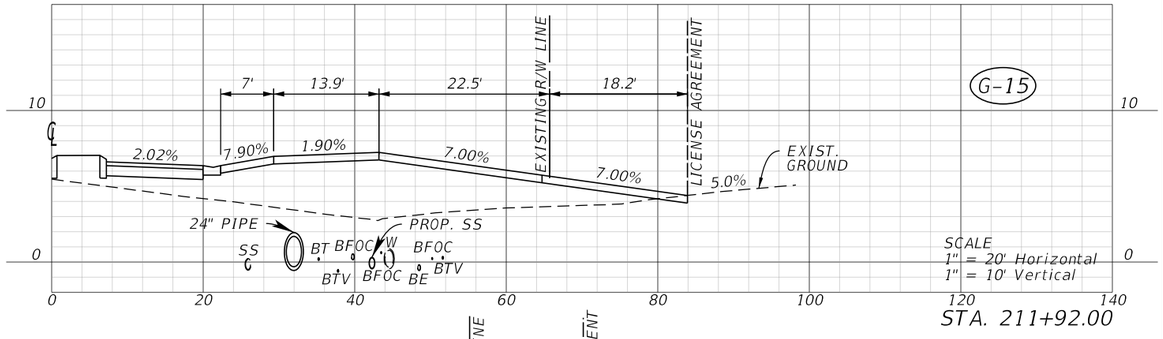
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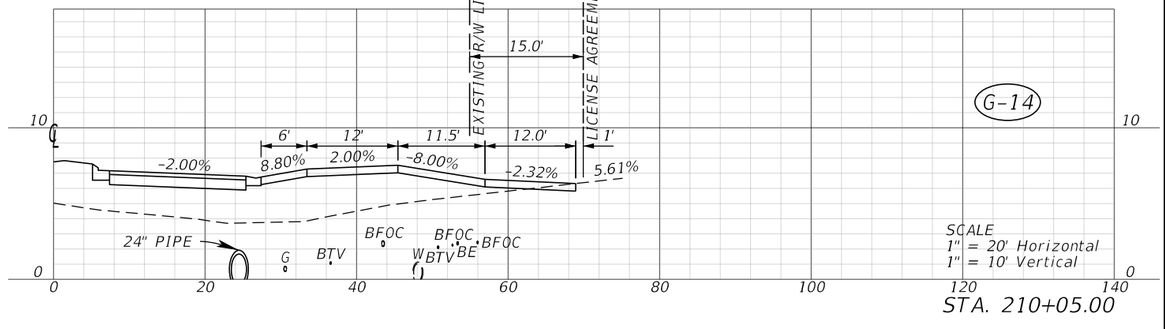
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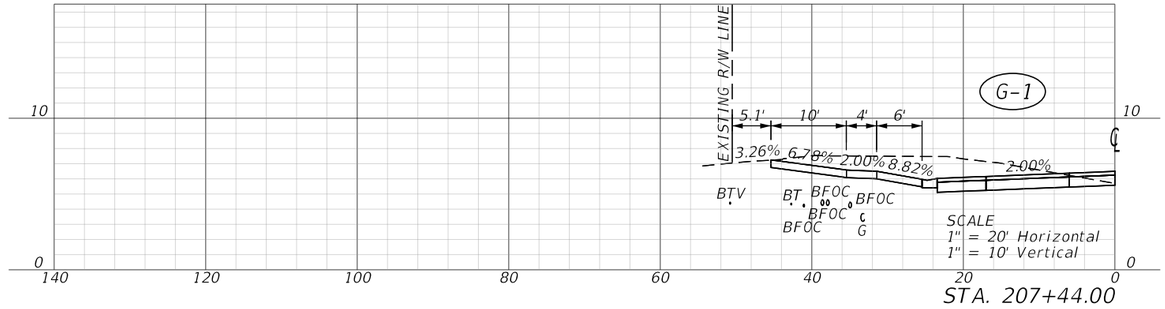
STA. 21+54.00



STA. 211+92.00



STA. 210+05.00



STA. 207+44.00

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

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA,, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

DRIVEWAY HALF SECTIONS

SHEET NO.

58

SUMMARY OF VERIFIED UTILITIES

Vvh #	UTILITY DESCRIPTION (Owner, type)	SIZE	MATERIALS	STATION	OFFSET	LT./RT.	EXISTING GROUND ELEVATION / REFERENCE POINT (IN FEET)	TOP UTILITY ELEVATION (IN FEET)	COMMENTS COVER DEPTH (CD)
VVH1	TECO, GAS MAIN	4"	PE	203+26.36	25.72	RT.	3.29	1.01	UTILITY VERIFIED/ COVER DEPTH 2.28'
VVH2	TECO, GAS MAIN	4"	PE	204+03.66	25.89	RT.	3.83	1.16	UTILITY VERIFIED/ COVER DEPTH 2.67'
VVH3	TECO, GAS MAIN	4"	PE	204+96.81	32.31	RT.	2.44	0.49	UTILITY VERIFIED/COVER DEPTH 1.95'
VVH4	TECO, GAS MAIN	(1) 6" + 4" (1) 4"	DUCTILE IRON PIPE, PE INSIDE DUCTILE IRON PIPE (EMPTY)	206+88.64	37.23	RT.	3.24	-0.10	UTILITY VERIFIED/COVER DEPTH 3.34'
VVH5	TECO, GAS MAIN	4"	PE	207+36.49	34.12	RT.	1.97	-0.67	UTILITY VERIFIED/COVER DEPTH 2.64'
VVH6	LONGBOAT KEY UTILITIES, WATER	UNK	UNK	207+72.01	45.7	RT.	4.04	-0.21	UNABLE TO VERIFY SIZE & MATERIAL DUE TO WATER TABLE /COVER DEPTH 4.25'
VVH7	TECO, GAS MAIN	4"	PE	207+72.18	33.14	RT.	1.94	-0.62	UTILTY VERIFIED/COVER DEPTH 2.56'
VVH8	TECO, GAS SERVICE LINE	1 1/2"	PE	207+80.42	27.55	RT.	2.73	0.38	UTILITY VERIFIED/ COVER DEPTH 2.35'
VVH9	TECO, GAS MAIN	6"	PE	209+04.61	35.46	LT.	4.91	1.99	UTILITY VERIFIED/COVER DEPTH 2.92'
VVH10	TECO, GAS MAIN	4"	PE	209+24.65	37.7	RT.	3.35	1.55	UTILITY VERIFIED/COVER DEPTH 2.80'
VVH11	TARGET UTILITY WAS A TECO GAS MAIN/ DID NOT FIND UTILITY AT THIS LOCATION	NA	NA	210+17.00	30.12	RT.	NA	NA	UTILITY NOT VERIFED/ EXCAVATED AT THIS LOCATION & DID NOT FIND UTILITY
VVH12	TECO, GAS MAIN	6"	PE	210+74.13	28.47	LT.	5.95	2.06	UTILITY VERIFIED/COVER DEPTH 3.89'
VVH13	TECO, GAS MAIN	UNK	UNK	211+98.54	30.15	LT.	5.61	2.70	UNABLE TO VERIFY SIZE & MATERIAL DUE TO WATER TABLE /COVER DEPTH 2.91'
VVH14	TECO, GAS MAIN	6"	PE	212+03.94	30.91	LT.	5.64	1.42	UTILITY VERIFIED/COVER DEPTH 4.22'
VVH15	TECO/ GAS MAIN	UNK	UNK	212+26.05	65.55	LT.	3.53	-1.25	UNABLE TO VERIFY SIZE & MATERIAL DUE TO WATER TABLE /COVER DEPTH 4.78'
VVH16	UNKOWN OWNER, COMMNICATIONS/CATV	1"	DIRECT BURIED CABLE	212+26.05	65.55	LT.	3.53	0.94	UTILITY VERIFIED/ COVER DEPTH 2.59'
VVH17	UNKNOWN OWNER, COMMUNICATIONS	1 1/2"	DIRECT BURIED CABLE	212+43.97	55.94	LT.	4.17	1.76	UTILITY VERIFIED/ COVER DEPTH 2.41'
VVH18	LONGBOAT KEY UTILITIES, WATER	6"	PVC	212+44.17	55.11	LT.	4.17	1.17	UTILITY VERIFIED/ COVER DEPTH 3.00'
VVH19	TECO, GAS SERVICE LINE	1.5"	PE	212+55.84	49	LT.	5.24	2.11	UTILITY VERIFIED/ COVER DEPTH 3.13'
VVH20	UNKNOWN OWNER, UNKNOWN TYPE	0.5"	DIRECT BURIED CABLE	212+56.70	48.47	LT.	5.36	2.16	UTILITY VERIFIED/ COVER DEPTH 3.20'
VVH21	VERIZON/GTE	1.25"	DIRECT BURIED CABLE	212+56.98	48.83	LT.	5.32	1.37	UTILITY VERIFIED/ COVER DEPTH 3.95'
VVH22	LONGBOAT KEY UTILITIES, WATER	6"	DUCTILE IRON PIPE/PVC	212+62.35	46.39	LT.	5.67	0.10	UTILITY VERIFIED/ COVER DEPTH 5.75'
VVH23	LONGBOAT KEY UTILITIES, SEWER/FORCE MAIN	UNK	UNK	212+50.13	55.21	RT.	3.78	1.39	UNABLE TO VERIFY SIZE & MATERIAL DUE TO WATER TABLE /COVER DEPTH 2.39'
VVH24	MCI, COMMUNICATIONS/FIBER OPTIC	2"	PE	213+24.04	43.83	RT.	3.69	-5.39	UTILITY VERIFIED/ COVER DEPTH 9.08'
VVH25	LONGBOAT KEY UTILITIES, WATER MAIN	16"	DUCTILE IRON PIPE	213+24.39	41.92	RT.	3.73	-0.17	UTILITY VERIFIED/ COVER DEPTH 3.9', DIA. +/- BASED ON PROBING
VVH26	VERIZON/, COMMUNICATIONS/FIBER OPTIC	4"	PVC	213+25.08	38.96	RT.	3.79	1.68	UTILITY VERIFIED/ COVER DEPTH 2.11'
VVH27	LONGBOAT KEY UTILITIES, WATER MAIN	16"	DUCTILE IRON PIPE	213+61.58	90.81	RT.	3.35	-1.21	UTILITY VERIFIED/ COVER DEPTH 4.56'
VVH28	UNKNOWN OWNER, ELECTRIC	2"	PVC CONDUIT	213+59.79	99.5	RT.	3.57	1.54	UTILITY VERIFIED/ COVER DEPTH 2.03'
VVH29	VERIZON, COMMUNICATIONS	(1) 1.5" 3(2) 2"	DIRECT BURIED CABLE PVC	213+89.81	39.91	RT.	3.32	-0.53	UTILITY VERIFIED/ COVER DEPTH 3.85'
VVH30	FLORIDA POWER & LIGHT	1.5"	PVC	213+90.50	54.7	RT.	3.68	1.18	UTILITY VERIFIED/ COVER DEPTH 2.5'
VVH31	FLORIDA POWER & LIGHT	1.25	PVC	213+90.94	51.66	RT.	3.49	1.71	1.79, POSSIBLE STREET LIGHT
VVH32	MCI, COMMUNICATIONS/FIBER OPTIC	(2) 2"	PE	213+93.83	44.76	RT.	3.40	-1.00	UTILITY VERIFIED/ COVER DEPTH 4.40'
VVH33	TECO, GAS MAIN	6"	PE	213+97.59	26.89	LT.	7.11	3.07	UTILITY VERIFIED/ COVER DEPTH 4.04'
VVH34	LONGBOAT KEY UTILITIES, WATER	UNK	DUCTILE IRON PIPE	215+46.90	47.29	RT.	3.15	-0.97	UTILITY VISUALLY VERIFIED/ UNABLE TO VERIFY SIZE DUE TO WATER TABLE/ CD 4.12'
VVH35	TECO, GAS MAIN	6"	PE	216+13.87	27.19	LT.	7.11	2.57	UTILITY VERIFIED/ COVER DEPTH 4.51'
VVH36	LONGBOAT KEY UTILITIES, WATER	UNK	DUCTILE IRON PIPE	216+75.87	48.36	RT.	1.74	-0.90	UTILITY VISUALLY VERIFIED/ UNABLE TO VERIFY SIZE DUE TO WATER TABLE/ CD 2.64'
VVH37	LONGBOAT KEY UTILITIES, WATER	UNK	DUCTILE IRON PIPE	220+07.48	27.42	RT.	3.83	0.59	UTILITY VISUALLY VERIFIED/ UNABLE TO VERIFY SIZE DUE TO WATER TABLE/ CD 3.24'
VVH38	LONGBOAT KEY UTILITIES, WATER	UNK	DUCTILE IRON PIPE	220+87.30	24.01	RT.	4.40	1.85'	UTILITY VISUALLY VERIFIED/ UNABLE TO VERIFY SIZE DUE TO WATER TABLE/ CD 2.55'
VVH39	UNKNOWN OWNER, COMMUNICATIONS/FIBER OPTIC	(2) 4" & (1) 3"	PVC & BLACK POLY CONDUITS	220+94.36	28.35	RT.	4.06	1.76'	UTILITY VERIFIED/ CD 2.30' DUCT BANK IS 10" WIDE, 3 CONDUITS VISUALLY IDENTIFIED
VVH40	TECO, GAS MAIN	6"	PE	220+99.16	49.36	LT.	3.58	0.95	UTILITY VERIFIED/ COVER DEPTH 2.63'

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

SUMMARY OF VERIFIED UTILITIES

SHEET NO. 59

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

GENERAL NOTES

1. THE EXISTING POSTED SPEED LIMITS ARE:
   SR 789 (GULF OF MEXICO DRIVE) – 35 MPH AND 45 MPH SOUTH OF CEDAR ST.
   REDUCE TO 25 MPH THROUGHOUT ALL TEMPORARY TRAFFIC CONTROL PHASES.
   BROADWAY STREET – 20 MPH
   TO REMAIN FOR ALL TEMPORARY TRAFFIC CONTROL PHASES.
2. NO LANE CLOSURES ARE PERMITTED BETWEEN 6:00 AM TO 8:00 PM UNLESS APPROVED THE THE ENGINEER OF RECORD
3. ACCESS SHALL BE MAINTAINED AT SR 789 (GULF OF MEXICO DRIVE) AND CEDAR STREET INTERSECTION THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) IS TO BE PRESENT 14 DAYS PRIOR TO CONSTRUCTION. PCMS FOR TRUCK DETOUR ARE TO BE PRESENT PRIOR TO COMMENCEMENT OF PHASE III.
5. NOTIFY MANATEE COUNTY AREA TRANSIT (MCAT) FOURTEEN (14) BUSINESS DAYS PRIOR TO PERFORMING ANY WORK IN THE VICINITY OF AN EXISTING TRANSIT STOP OR ROUTE (STEVE ROBERTS, 941-747-8621 x7639). MAINTAIN ADA-COMPLIANT ACCESS TO ALL EXISTING TRANSIT STOPS DURING CONSTRUCTION. COORDINATE TRANSIT STOP ADJUSTMENTS OR ALTERNATE LOCATIONS WITH MCAT PRIOR TO PERFORMING WORK.
6. THE TOWN OF LONGBOAT KEY WILL BE COORDINATING WITH LOCAL RESIDENTS FOR CONSTRUCTION AWARENESS.

PHASING NOTES

PHASE IA & IB

NOTE: THE INTENT IS TO RECONSTRUCT SOUTHBOUND LANES OF SR 789 AND THE WEST LEG OF BROADWAY STREET.

1. PLACE ADVANCE WARNING TRAFFIC CONTROL SIGNS AND DEVICES.
2. PLACE WORK ZONE SIGNS, CHANNELIZING DEVICES AND TEMPORARY PAVEMENT MARKINGS (INDEX 102-608 AND 102-661). ADJUST/RELOCATE ANY EXIST. SIGNS WHERE NECESSARY. SHIFT TRAFFIC TO THE PHASE I CONFIGURATION.
3. INITIALLY CONSTRUCT WATERMAIN CROSSING AT APPROXIMATELY STATION 211+00 UTILIZING STANDARD PLANS 102-603 TO EXTEND WATERMAIN ACROSS THE STREET AND THEN CONSTRUCT PORTIONS OF DRAINAGE IMPROVEMENTS, LIGHTING, OUTSIDE CURB AND GUTTER, DRIVEWAYS, SIDEWALKS, CURB RAMPS, AND TEMPORARY PAVEMENT. CONSTRUCT PORTIONS OF PAVEMENT UP TO, BUT NOT INCLUDING THE FRICTION COURSE. PLACE TEMPORARY PAVEMENT FOR TEMPORARY SIDEWALK NORTH OF THE ROUNDABOUT ON THE WEST SIDE OF THE ROADWAY FOR USE DURING PHASE IIA.
4. RESTORE ANY DROP OFF CONDITION WITHIN THE SAME WORK PERIOD PER INDEX 102-600.

PORTABLE CHANGEABLE MESSAGE SIGNS

PLACE A PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGN IN ADVANCE OF THE WORK ZONE FOR THE DURATION STATED IN THE FOLLOWING LOCATIONS.

BEGIN/END PROJECT ALONG SR 789 BOTH DIRECTIONS OF TRAVEL

14 DAYS PRIOR TO CONST. MESSAGE SHOULD READ: | SR 789 ROAD WORK | BEGINS XX/XX/XX

BEGIN/END PROJECT ALONG SR 789 BOTH DIRECTIONS OF TRAVEL

DURING CONST. MESSAGE SHOULD READ: | CONST. AHEAD | XX/XX/XX TO XX/XX/XX

PHASING NOTES CONTINUED

PRE PHASE II

NOTE: THE INTENT OF THIS PHASE IS TO PLACE TEMPORARY PAVEMENT ADJACENT TO THE RECONSTRUCTED SOUTHBOUND LANES OF SR 789 FROM PHASE IA AND IB.

1. ADJUST ADVANCE WARNING TRAFFIC CONTROL SIGNS AND DEVICES AS NECESSARY.
2. MAINTAIN NORTHBOUND TRAFFIC IN THE SAME CONFIGURATION AS IN PHASE I. SHIFT SOUTHBOUND TRAFFIC ONTO SOUTHBOUND PAVEMENT CONSTRUCTED IN PHASE I, AS SHOWN IN PHASE II TYPICAL AND PLANS.
3. PLACE TEMPORARY PAVEMENT AND LOW PROFILE BARRIER WALL IN THE MEDIAN.

PHASE IIA

NOTE: THE INTENT OF THIS PHASE IS TO RECONSTRUCT THE NORTHBOUND LANES OF SR 789, THE EAST LEG OF BROADWAY STREET AND THE CEDAR STREET CONNECTION. PROVIDE TEMPORARY PAVEMENT WEDGING TO KEEP THE BROADWAY STREET (EAST) CONNECTION OPEN TO TRAFFIC. DETOUR TRAFFIC PER DETOUR PLAN FOR RECONSTRUCTION OF CEDAR ST. AFTER THE CEDAR ST. CONNECTION IS COMPLETE AND OPEN TO TRAFFIC CLOSE BROADWAY ST. (EAST) FOR RECONSTRUCTION PER DETOUR PLAN.

1. ADJUST ADVANCE WARNING TRAFFIC CONTROL SIGNS AND DEVICES AS NECESSARY.
2. PLACE WORK ZONE SIGNS, CHANNELIZING DEVICES AND TEMPORARY PAVEMENT MARKINGS (INDEX 102-608, 102-660, 102-661). ADJUST/RELOCATE ANY EXIST. SIGNS WHERE NECESSARY.
3. SHIFT NORTHBOUND TRAFFIC ONTO TEMPORARY PAVEMENT CONSTRUCTED IN PRE PHASE II. DETOUR PEDESTRIANS ON TO TEMPORARY SIDEWALK ON WEST SIDE AND DETOUR PEDESTRIANS AND BICYCLISTS VIA FIREHOUSE CT NORTH OF BROADWAY STREET.
4. INITIALLY, CONSTRUCT THE FORCE MAIN RELOCATION ALONG THE EASTERN SIDE OF SR 789. THEN, CONSTRUCT PORTIONS OF DRAINAGE IMPROVEMENTS, LIGHTING, CURB AND GUTTER, DRIVEWAYS, SIDEWALKS AND CURB RAMPS ALONG SR 789 NORTHBOUND ROADWAY, CONSTRUCT OVERBUILD AND PAVEMENT UP TO BUT NOT INCLUDING THE FRICTION COURSE, CONSTRUCT IMPROVEMENTS ALONG BROADWAY STREET EAST OF SR 789.
5. RESTORE ANY DROP OFF CONDITION WITHIN THE SAME WORK PERIOD PER INDEX 102-600.

PHASING NOTES CONTINUED

PHASE IIB

NOTE: THE INTENT OF THIS PHASE IS TO CONSTRUCT THE REMAINING PORTION OF THE SR 789 MEDIAN.

1. ADJUST ADVANCE WARNING TRAFFIC CONTROL SIGNS AND DEVICES AS NECESSARY.
2. PLACE WORK ZONE SIGNS, CHANNELIZING DEVICES AND TEMPORARY PAVEMENT MARKINGS (INDEX 102-608, 102-661). ADJUST/RELOCATE ANY EXIST. SIGNS WHERE NECESSARY. SHIFT TRAFFIC TO THE PHASE IIB CONFIGURATION.
3. REMOVE ANY TEMPORARY OVERBUILD FROM PREVIOUS PHASES.
4. CONSTRUCT MEDIAN AND ROUNDABOUT, AND COMPLETE MISSING PORTIONS OF PAVEMENT UP TO BUT NOT INCLUDING THE FRICTION COURSE.
5. RESTORE ANY DROP OFF CONDITION WITHIN THE SAME WORK PERIOD PER INDEX 102-600.
6. PROVIDE TEMPORARY OR PERMANENT LIGHTING FOR PEDESTRIAN CROSSING MOVEMENT ON THE EAST SIDE DURING THIS PHASE.

PHASE III

NOTE: THE INTENT OF THIS PHASE IS TO CONSTRUCT THE NORTHWEST AND SOUTHWEST CORNERS OF THE ROUNDABOUT AND THE REMAINING PORTION OF THE CENTRAL ISLAND. UTILIZE HIGH-EARLY COMPRESSIVE STRENGTH CONCRETE FOR REDUCED CURE TIME. PROVIDE COLOR TESTING TO ENSURE APRON COLOR CONSISTENCY.

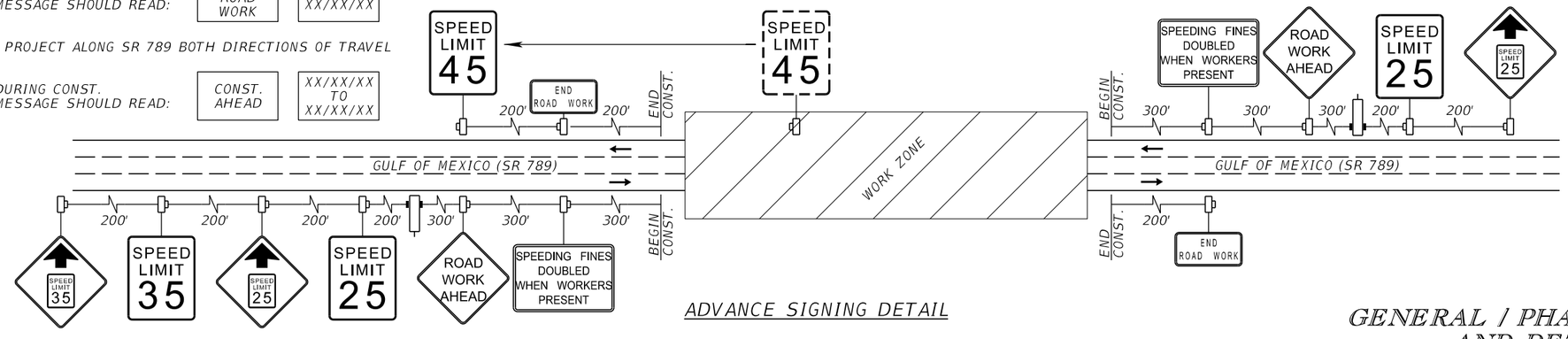
1. ADJUST ADVANCE WARNING TRAFFIC CONTROL SIGNS AND DEVICES AS NECESSARY.
2. PLACE WORK ZONE SIGNS, CHANNELIZING DEVICES AND TEMPORARY PAVEMENT MARKINGS (INDEX 102-608, 102-661). ADJUST/RELOCATE ANY EXIST. SIGNS WHERE NECESSARY. SHIFT TRAFFIC TO THE PHASE III CONFIGURATION.
3. REMOVE ANY TEMPORARY PAVEMENT FROM PREVIOUS PHASES.
4. CONSTRUCT WEST SIDE EDGE NORTH AND SOUTH OF ROUNDABOUT, CENTRAL CIRCLE WEST EDGE UTILIZING STANDARD PLANS INDEX 102-603, AND COMPLETE MISSING PORTIONS OF PAVEMENT UP TO BUT NOT INCLUDING THE FRICTION COURSE.
5. RESTORE ANY DROP OFF CONDITION WITHIN THE SAME WORK PERIOD PER INDEX 102-600.

PHASE IV

NOTE: THE INTENT OF THIS PHASE IS TO COMPLETE ANY REMAINING PORTIONS OF CONSTRUCTIONS AND FINAL PAVEMENT LIFT AND MARKINGS.

1. PLACE WORK ZONE SIGNS, CHANNELIZING DEVICES AND TEMPORARY PAVEMENT MARKINGS (INDEX 102-602). ADJUST/RELOCATE ANY EXIST. SIGNS WHERE NECESSARY.
2. PLACE FINAL LIFT OF ASPHALT AND FINAL PAVEMENT MARKINGS.

DURING CONST. MOVE EXIST. SB 45 MPH SPEED LIMIT SIGN AT CEDAR ST. TO SOUTH OF END ROAD WORK SIGN



ADVANCE SIGNING DETAIL

GENERAL / PHASING NOTES AND DETAILS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

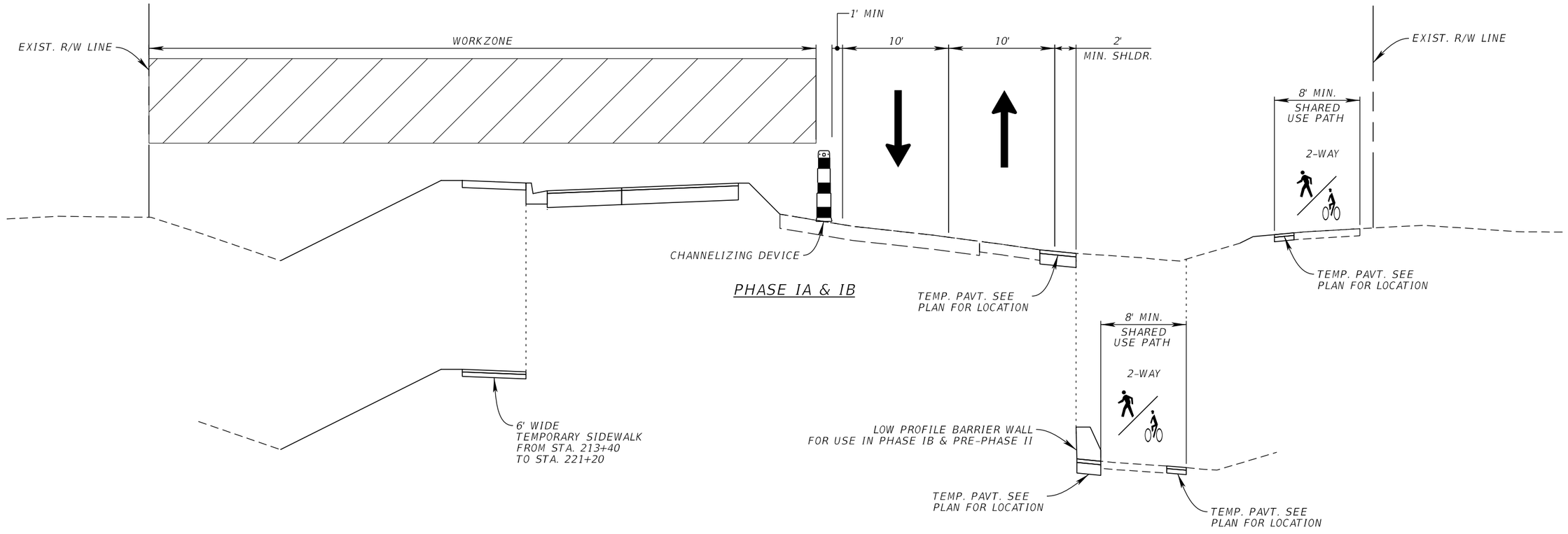
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. 60

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

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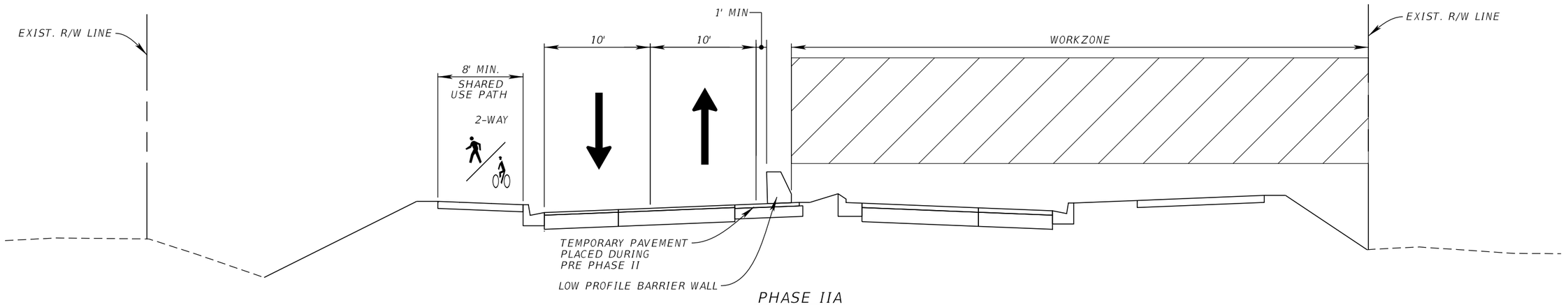


TYPICAL SECTION

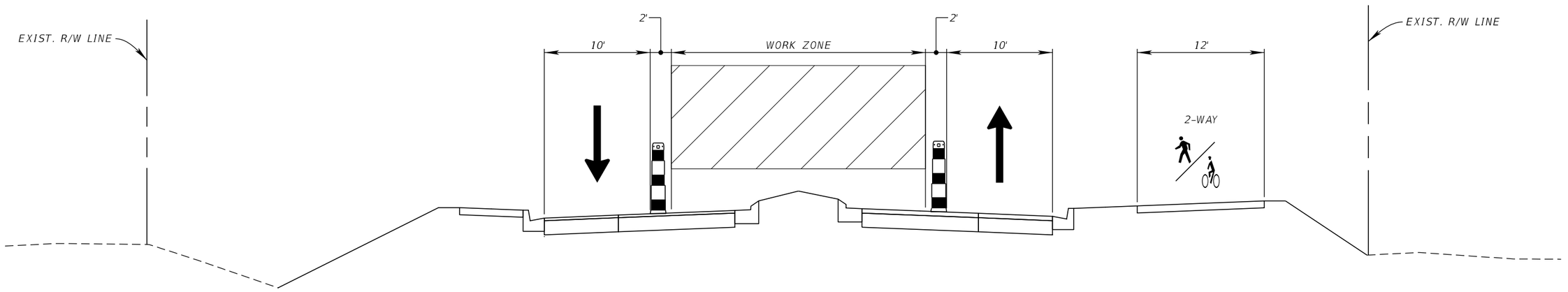
REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		61
					SR 789	MANATEE	453730-1-52-01		

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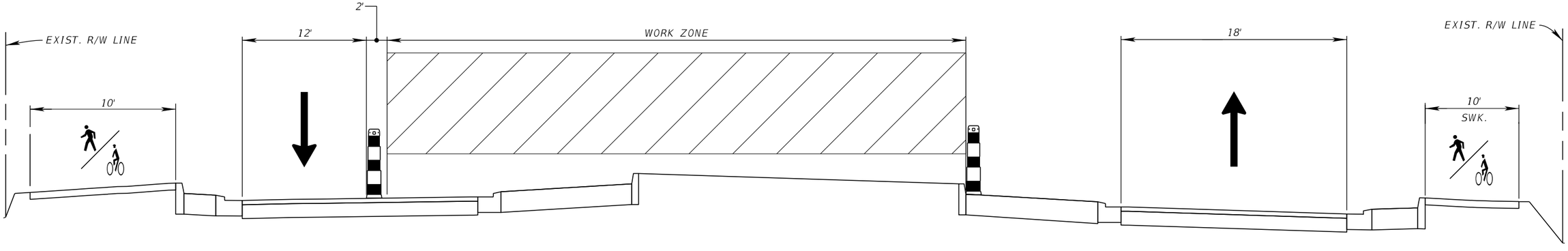
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PHASE IIA



PHASE IIB



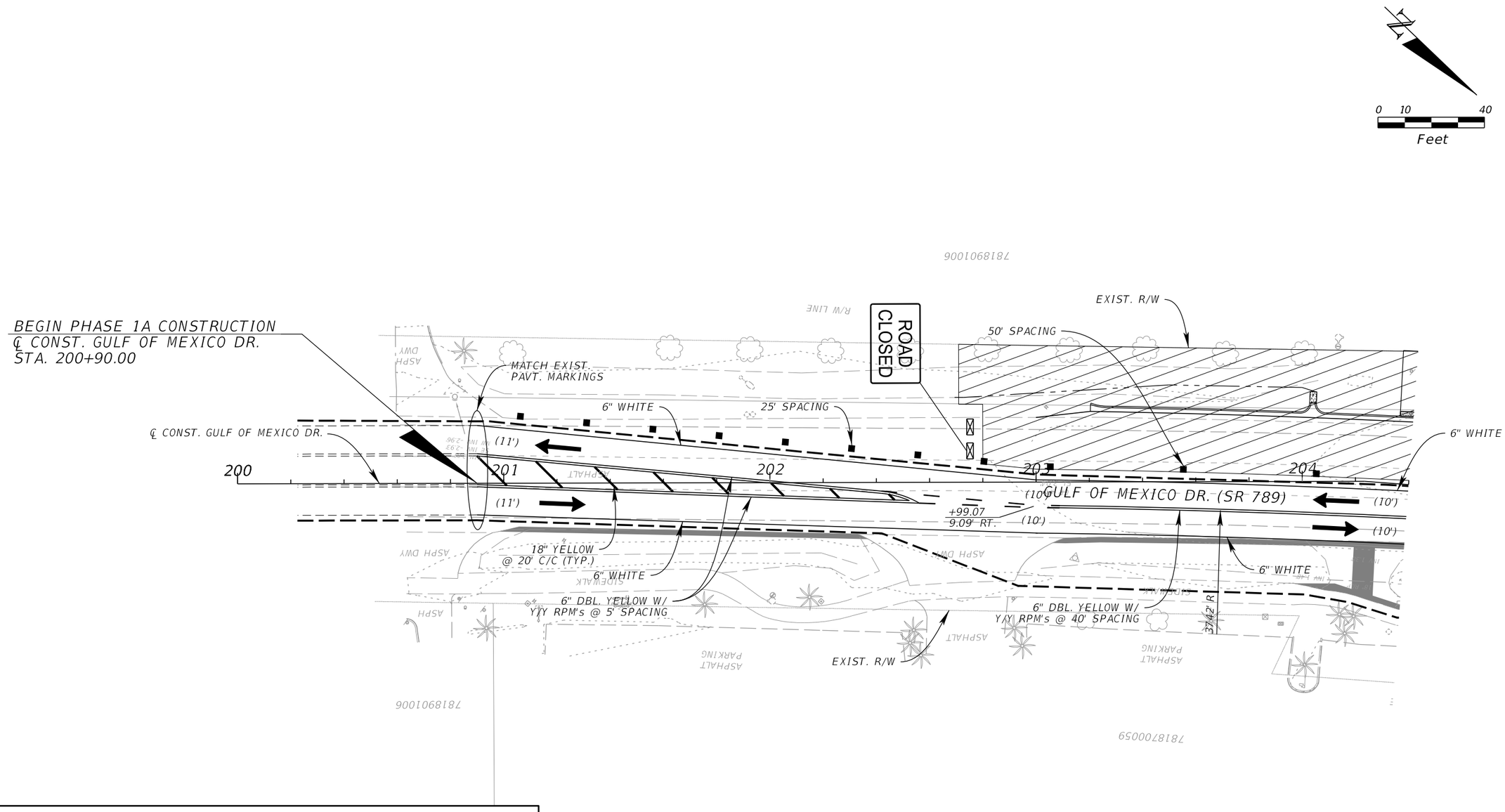
PHASE III

TYPICAL SECTION

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		62
					SR 789	MANATEE	453730-1-52-01		

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

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LEGEND

- TEMPORARY PAVEMENT
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PHASE IA (1)

SHEET NO. 63

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

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0 10 40
Feet

CONTRACTOR TO COORDINATE WITH PROPERTY OWNERS AND PHASE CONSTRUCTION TO MAINTAIN RESIDENTIAL ACCESS AT ALL TIMES

10' SPACING (TYP.)

℄ CONST. GULF OF MEXICO DR.

EXIST. R/W

CONTRACTOR TO COORDINATE WITH PROPERTY OWNERS AND PHASE CONSTRUCTION TO MAINTAIN RESIDENTIAL ACCESS AT ALL TIMES

50' SPACING

ROAD CLOSED

205 206 207 208 209

GULF OF MEXICO DR. (SR 789)

6" WHITE

12" WHITE

6" DBL. YELLOW W/ Y/Y RPS @ 40'

(10')

+96.08 11.94' RT.

+74.88 23.88' RT.

+14.80 38.45' RT.

+17.97 25.34' RT.

+29.11 42.37' RT.

+93.34 25.71' RT.

+49.03 26.03' RT.

+93.02 25.68' RT.

+68.41 25.55' RT.

+16.57 25.44' RT.

+27.12 25.51' RT.

+25.97 26.22' RT.

+59.7

+70.7

+59.8

+71.0

+70.90 14.54' RT.

R 3742'

R 1700'

+48.63 24.26' RT.

+40.54 45.28' RT.

PLACE TEMP. PAVT. TO MAINTAIN 8' WIDE PATH

EXIST. R/W

CEDAR ST.

EXIST. R/W

LEGEND

- TEMPORARY PAVEMENT
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

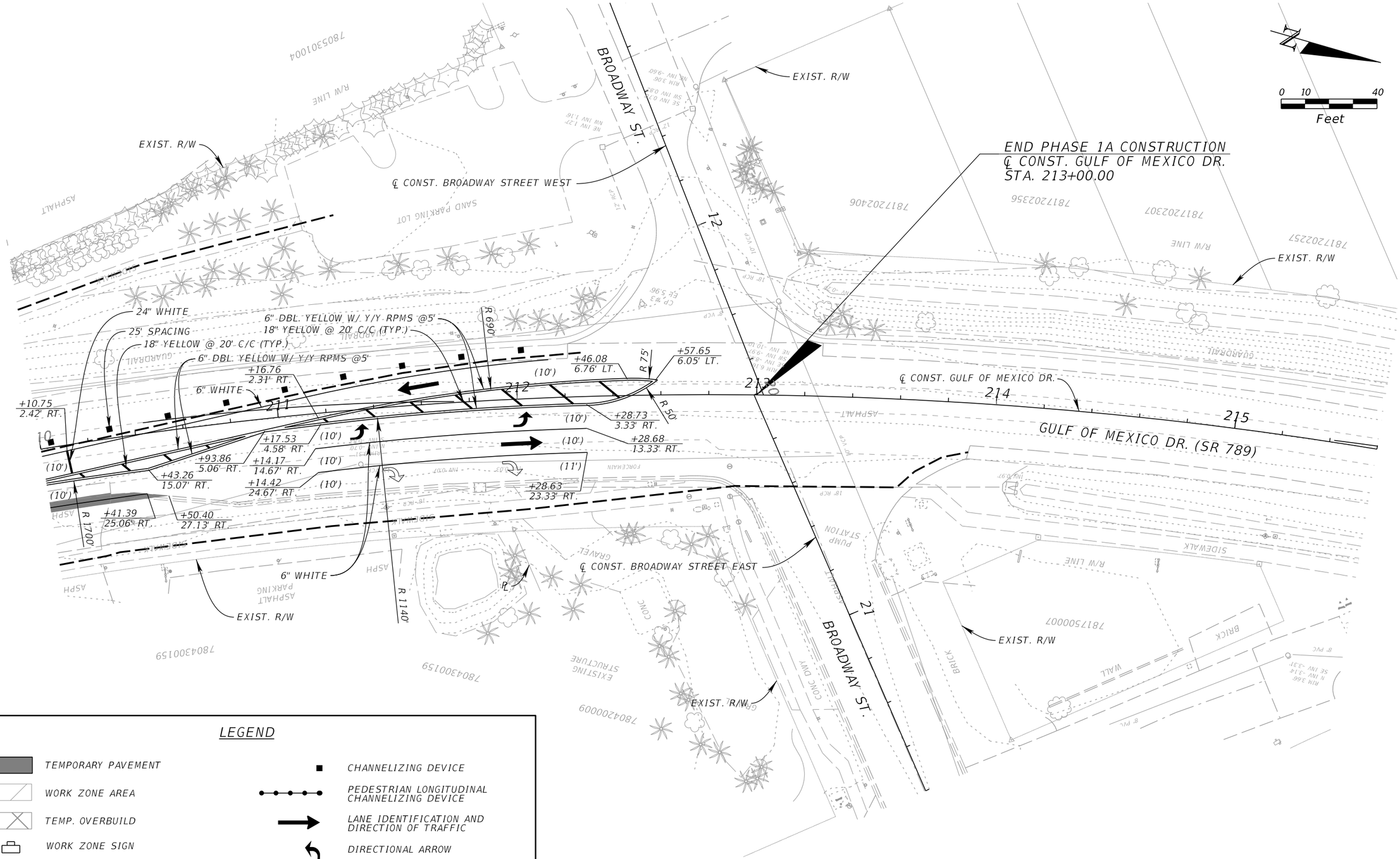
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PHASE IA (2)

SHEET NO.
64

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LEGEND

- TEMPORARY PAVEMENT
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PHASE IA (3)

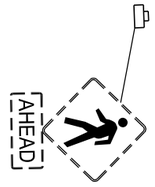
SHEET NO. 65

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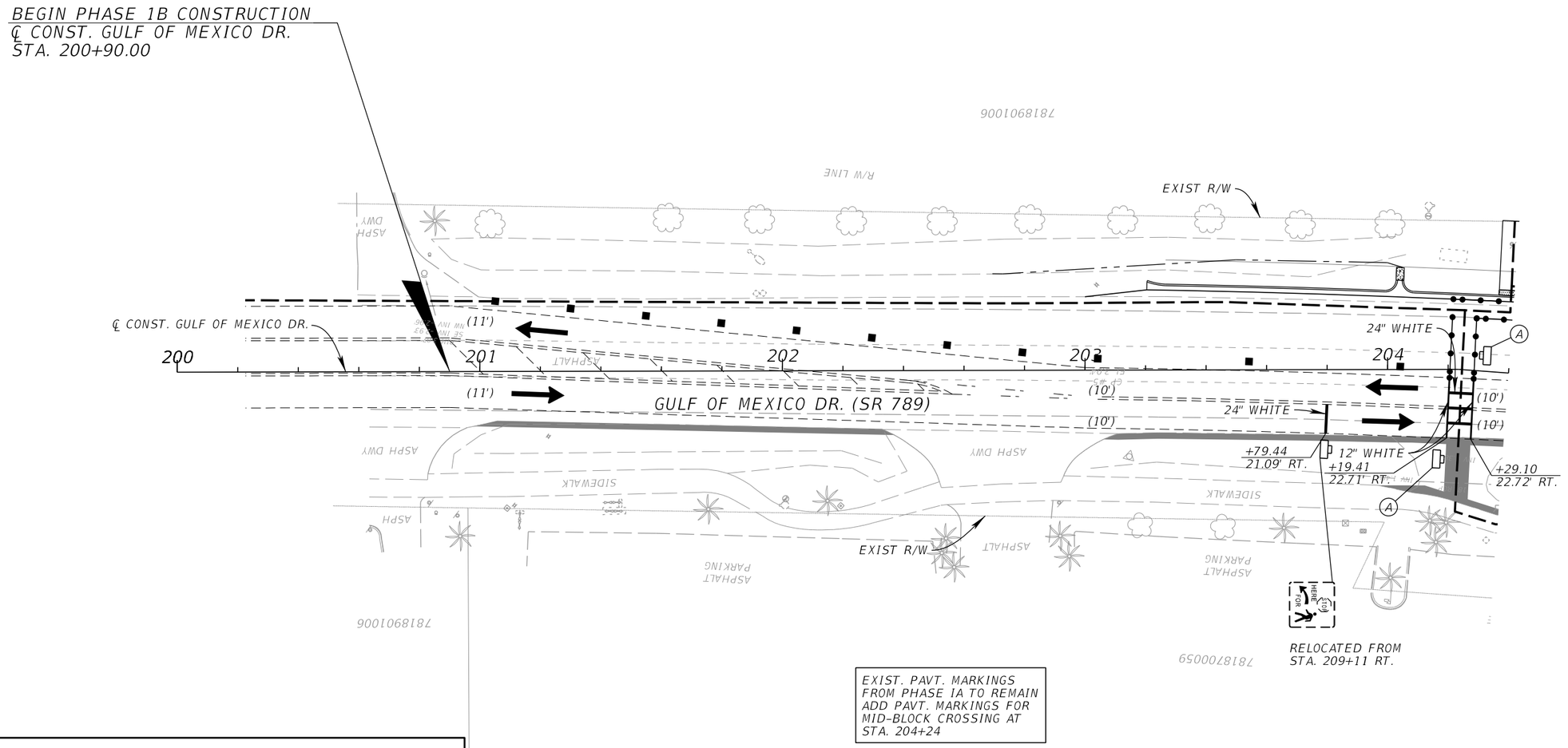
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(A) RELOCATED FROM EXIST. MIDBLOCK CROSSING AT STA. 221+14 LT./RT.



RELOCATED FROM STA. 207+02 RT.



RELOCATED FROM STA. 209+11 RT.

EXIST. PAVT. MARKINGS FROM PHASE IA TO REMAIN
ADD PAVT. MARKINGS FOR MID-BLOCK CROSSING AT STA. 204+24

LEGEND

- TEMPORARY PAVEMENT
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

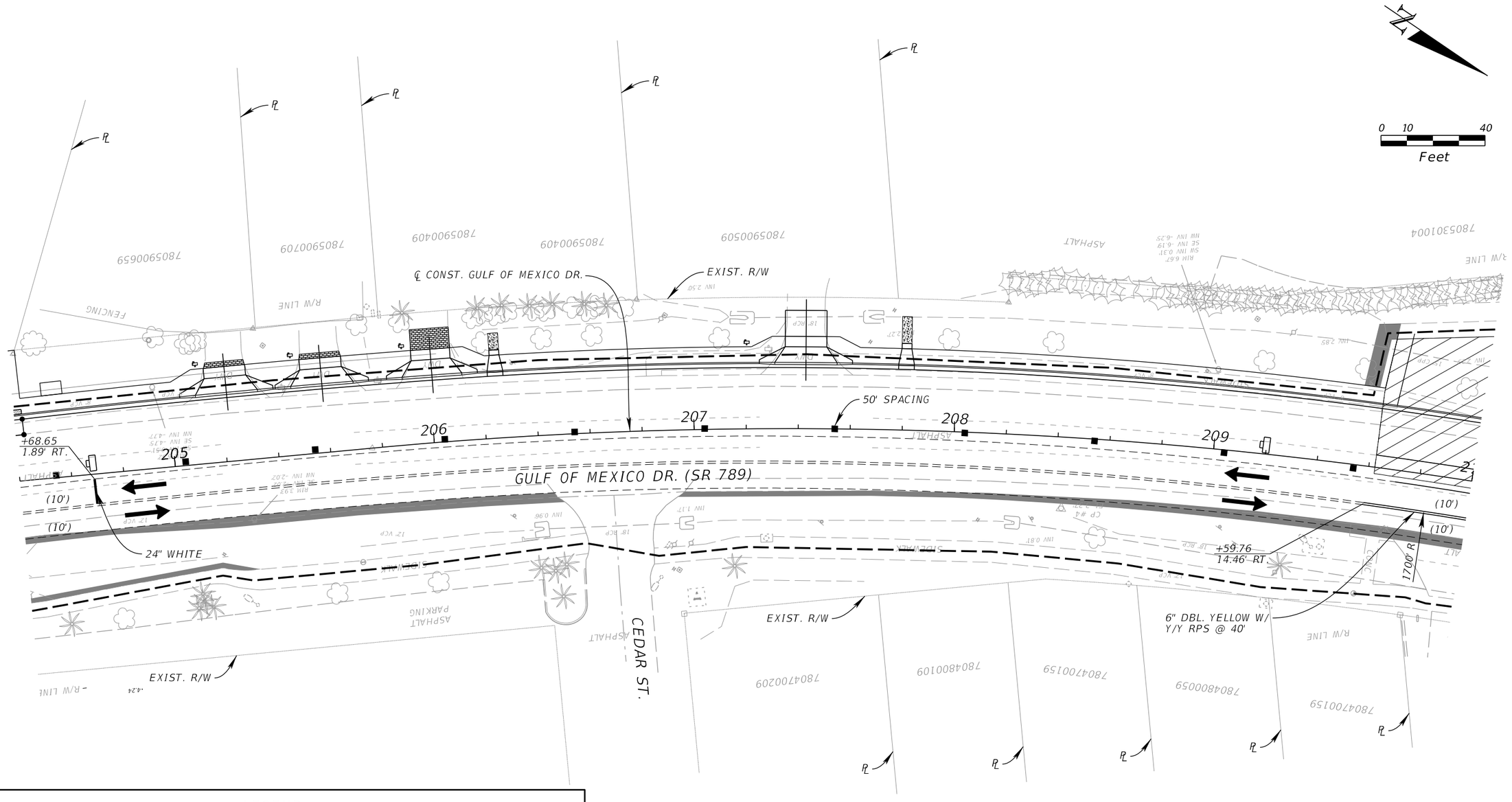
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PHASE IB (1)

SHEET NO. 66

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LEGEND

- TEMPORARY PAVEMENT
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

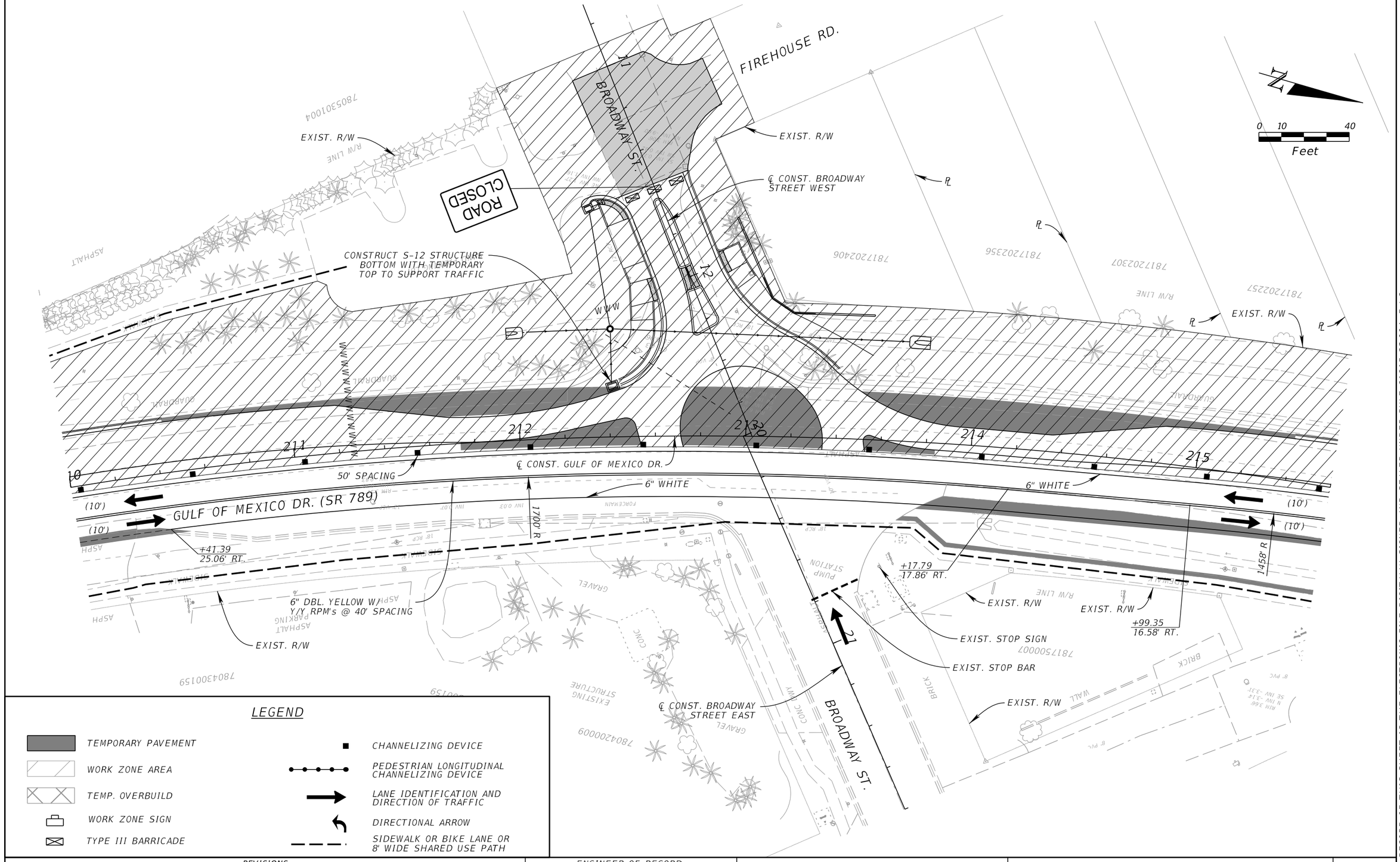
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PHASE IB (2)

SHEET NO. 67

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LEGEND

- TEMPORARY PAVEMENT
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

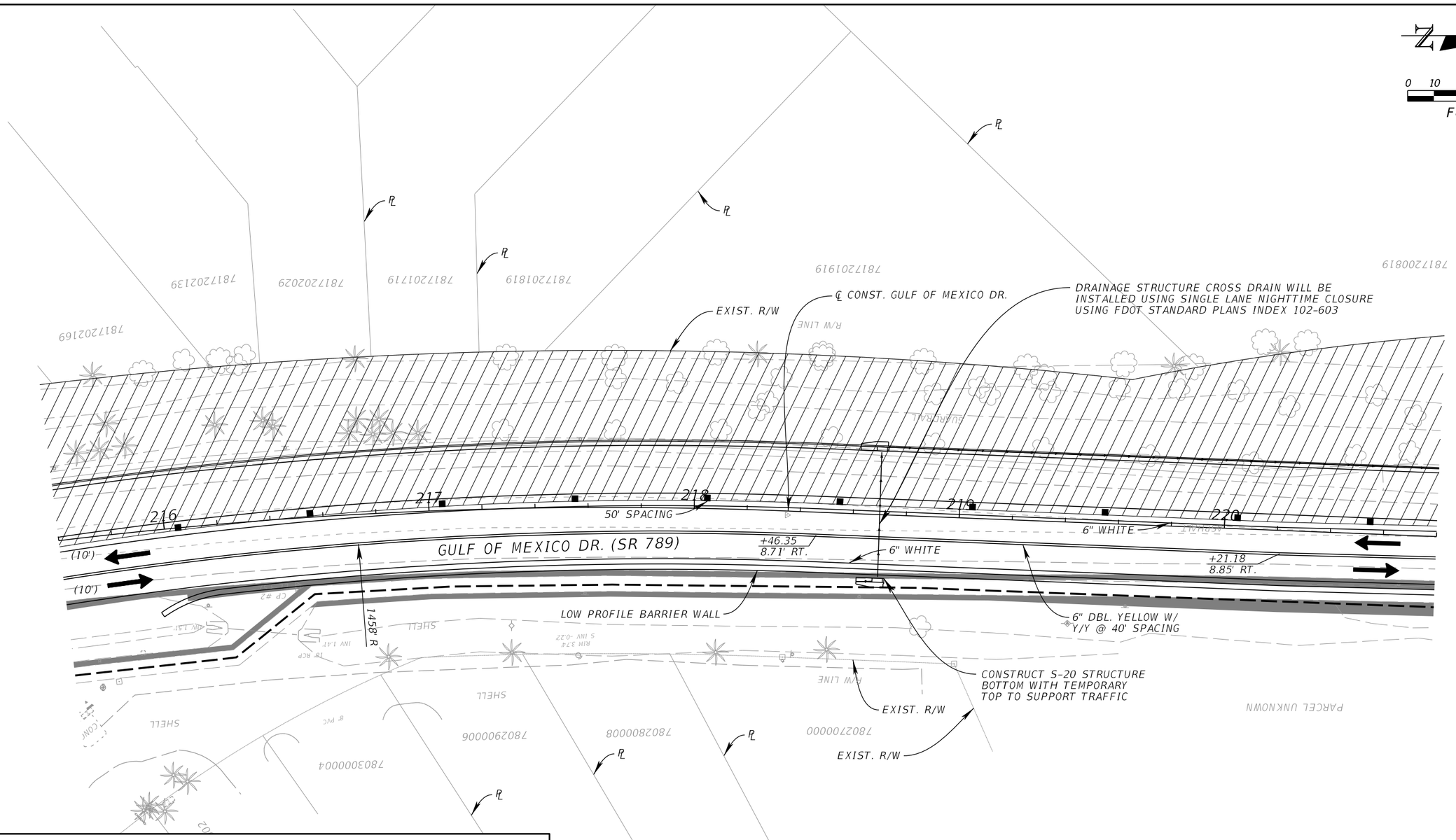
TTCP
PHASE IB (3)

SHEET NO. 68

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0 10 40
Feet



LEGEND

- TEMPORARY PAVEMENT
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

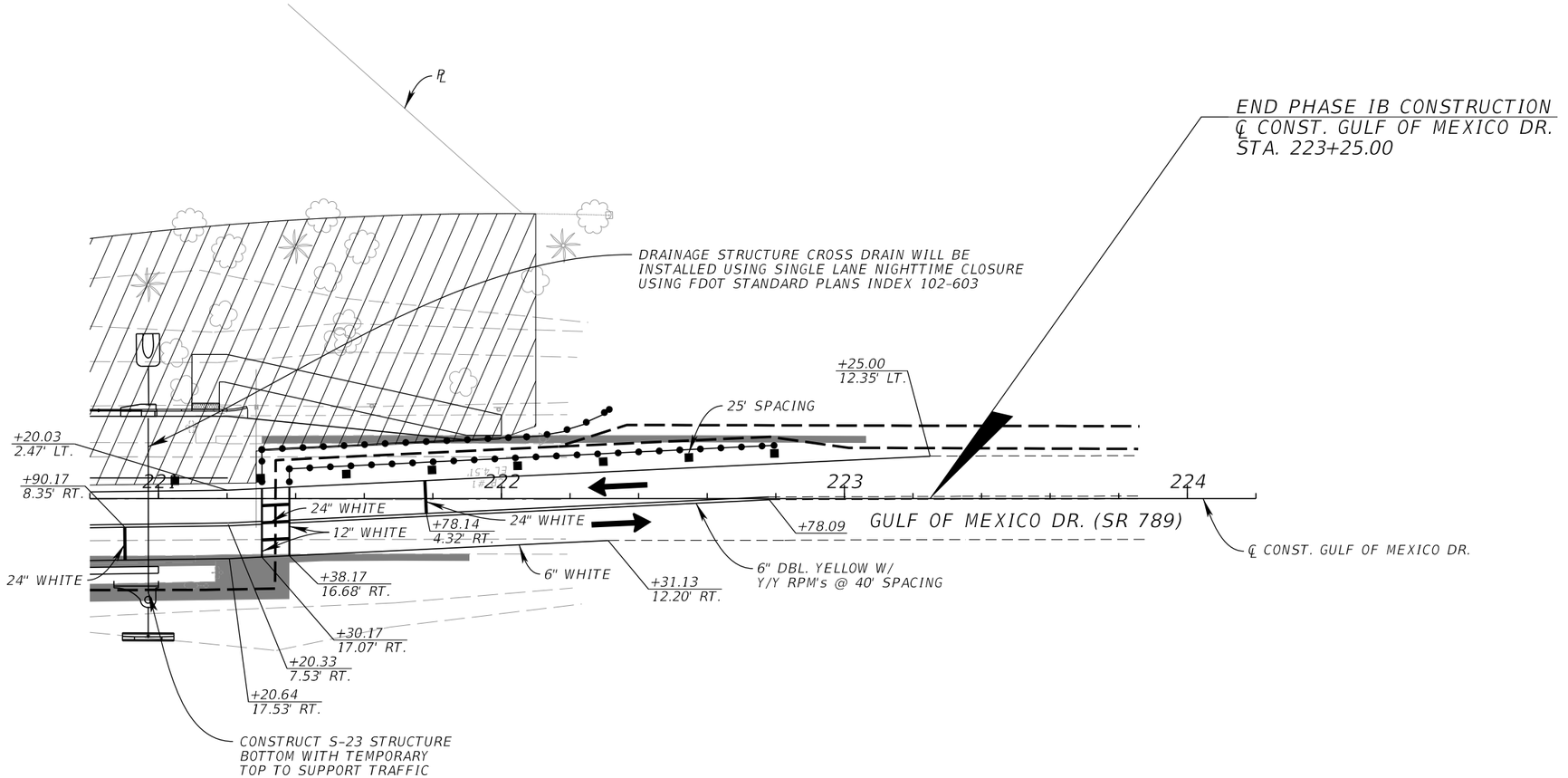
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PHASE IB (4)

SHEET NO. 69

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N

0 10 40

Feet

LEGEND

- TEMPORARY PAVEMENT
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

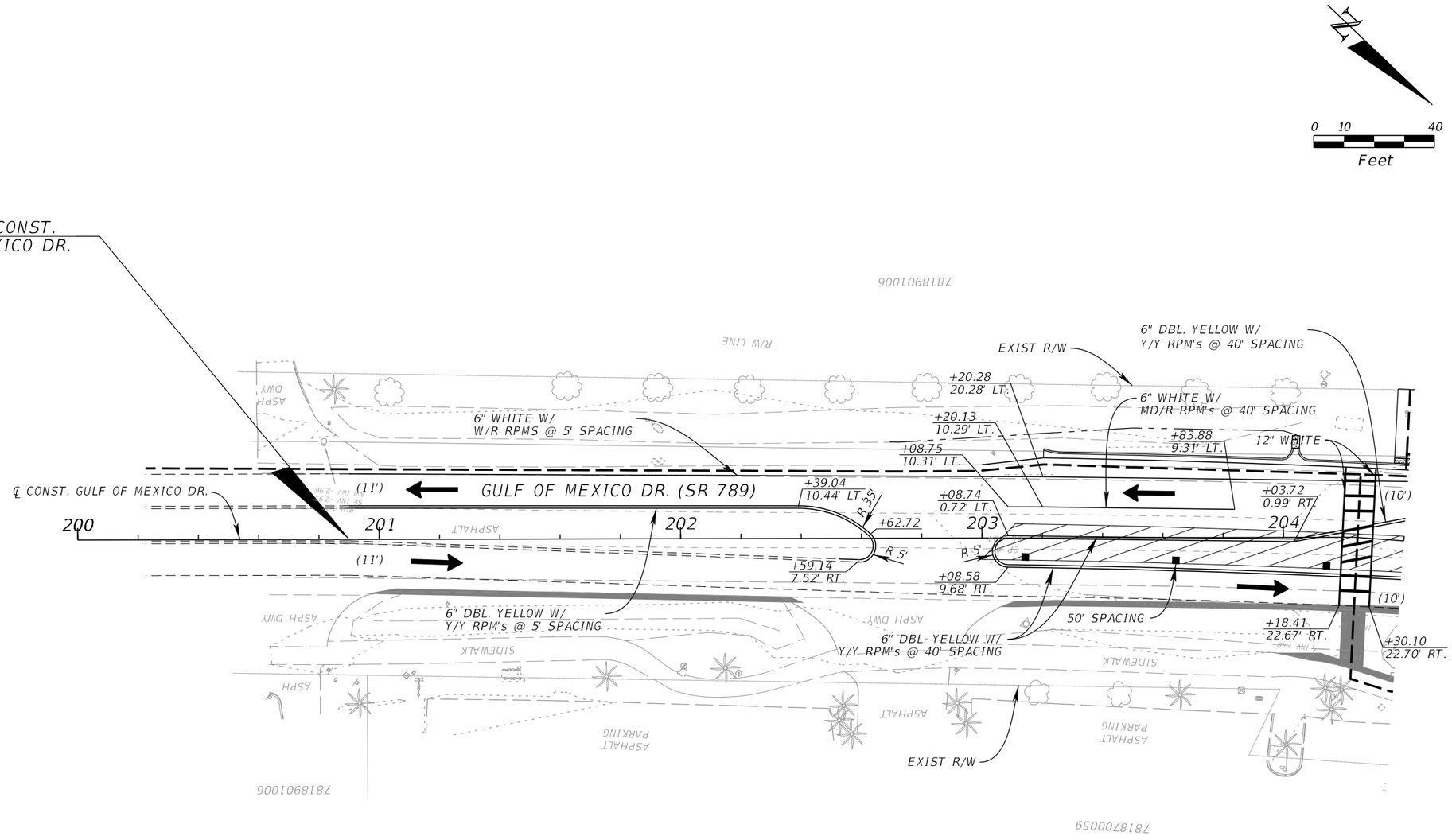
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PHASE IB (5)

SHEET NO. 70

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

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LEGEND

- TEMPORARY PAVEMENT
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

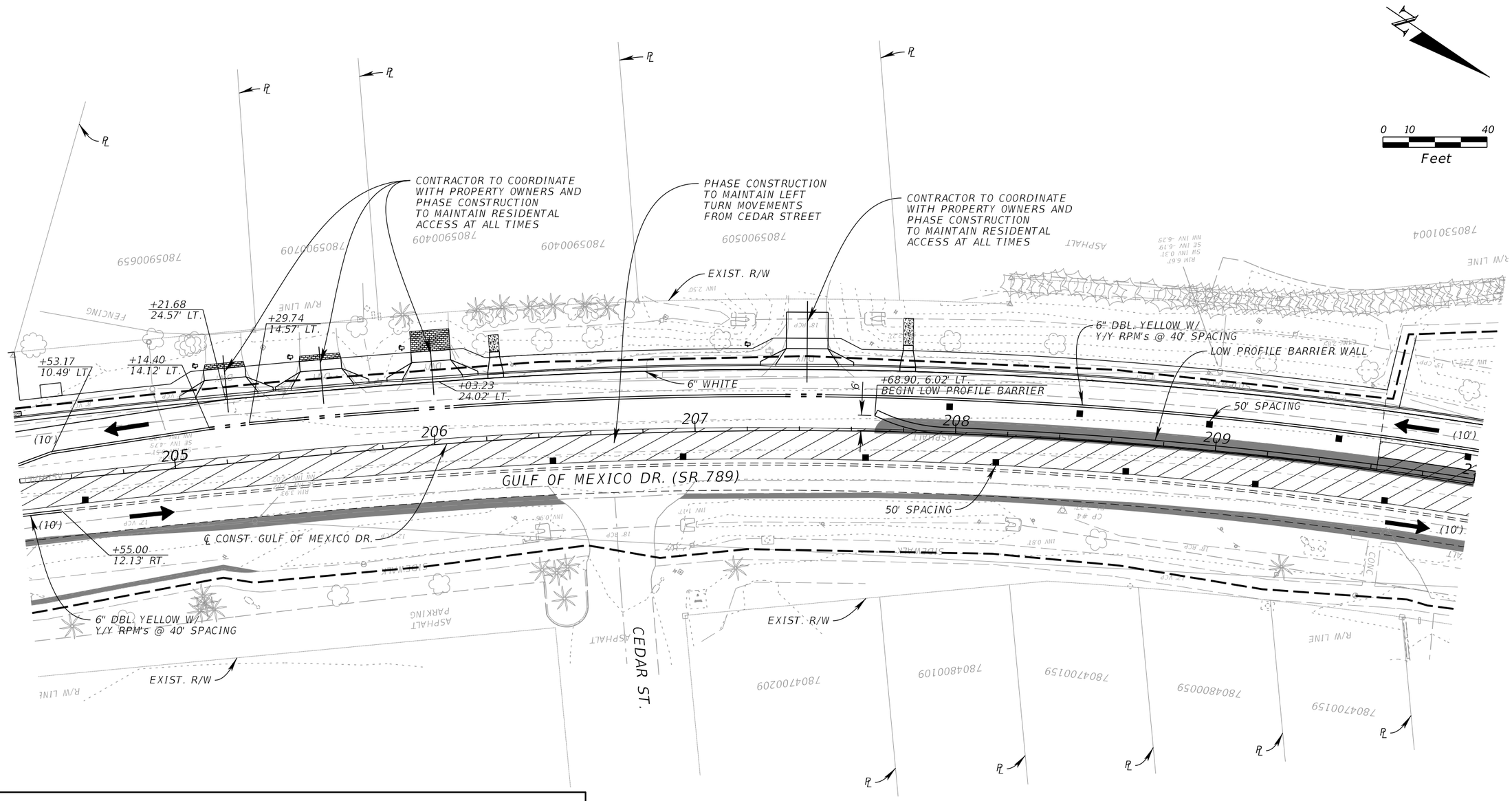
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PRE PHASE II (1)

SHEET NO. 71

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

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LEGEND

- TEMPORARY PAVEMENT
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

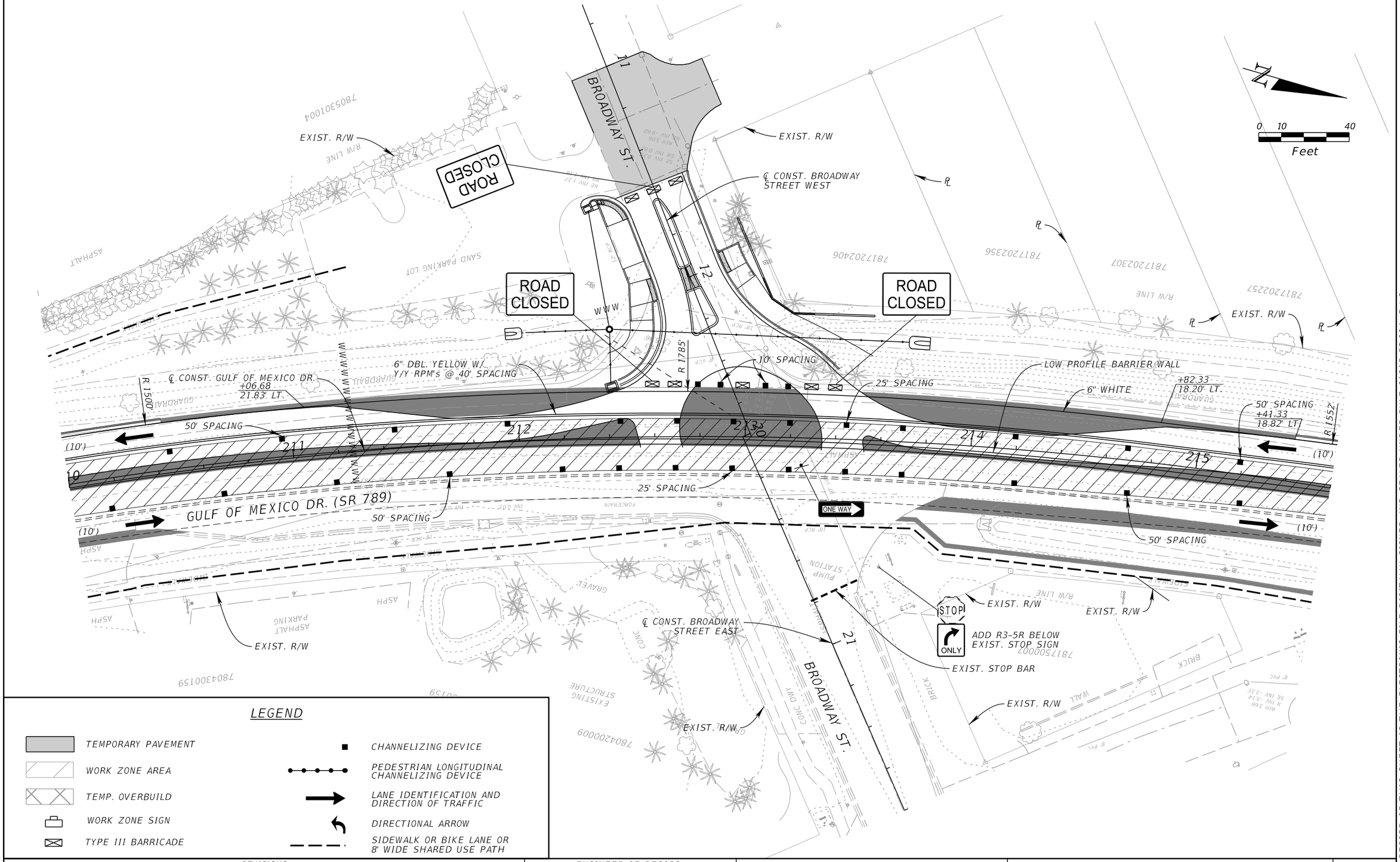
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PRE PHASE II (2)

SHEET NO. 72

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

c:\pw\kh1\d0576572\TCPLRD03.dgn : CL_CONSTGMD - PLAN 2 [SHEET]
Seth.Kline 2/12/2026 3:23:43 PM



LEGEND

- TEMPORARY PAVEMENT
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

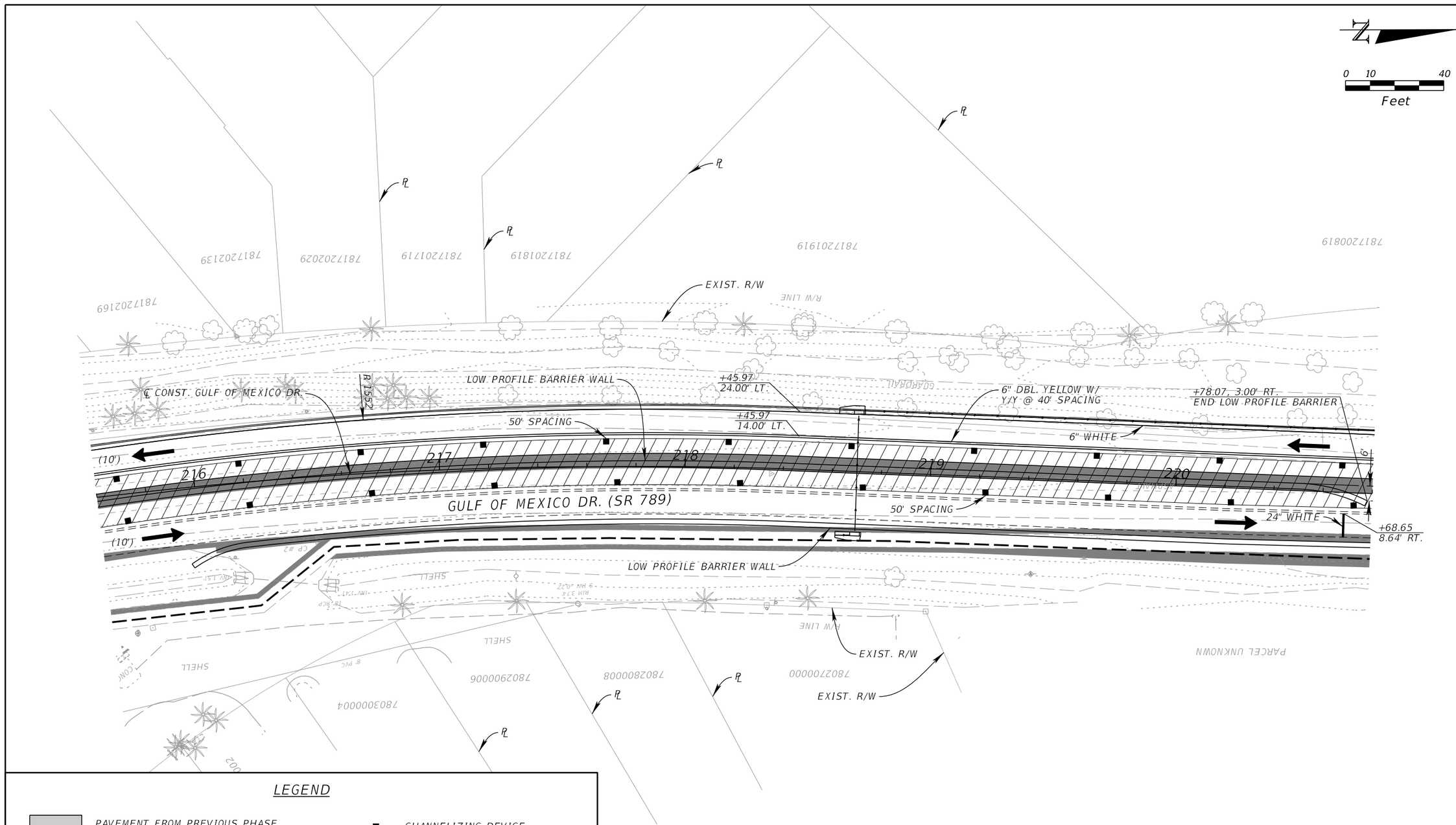
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PRE PHASE II (3)

SHEET NO. 73

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

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Seth.Kline 2/12/2026 4:10:58 PM



LEGEND

- PAVEMENT FROM PREVIOUS PHASE
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

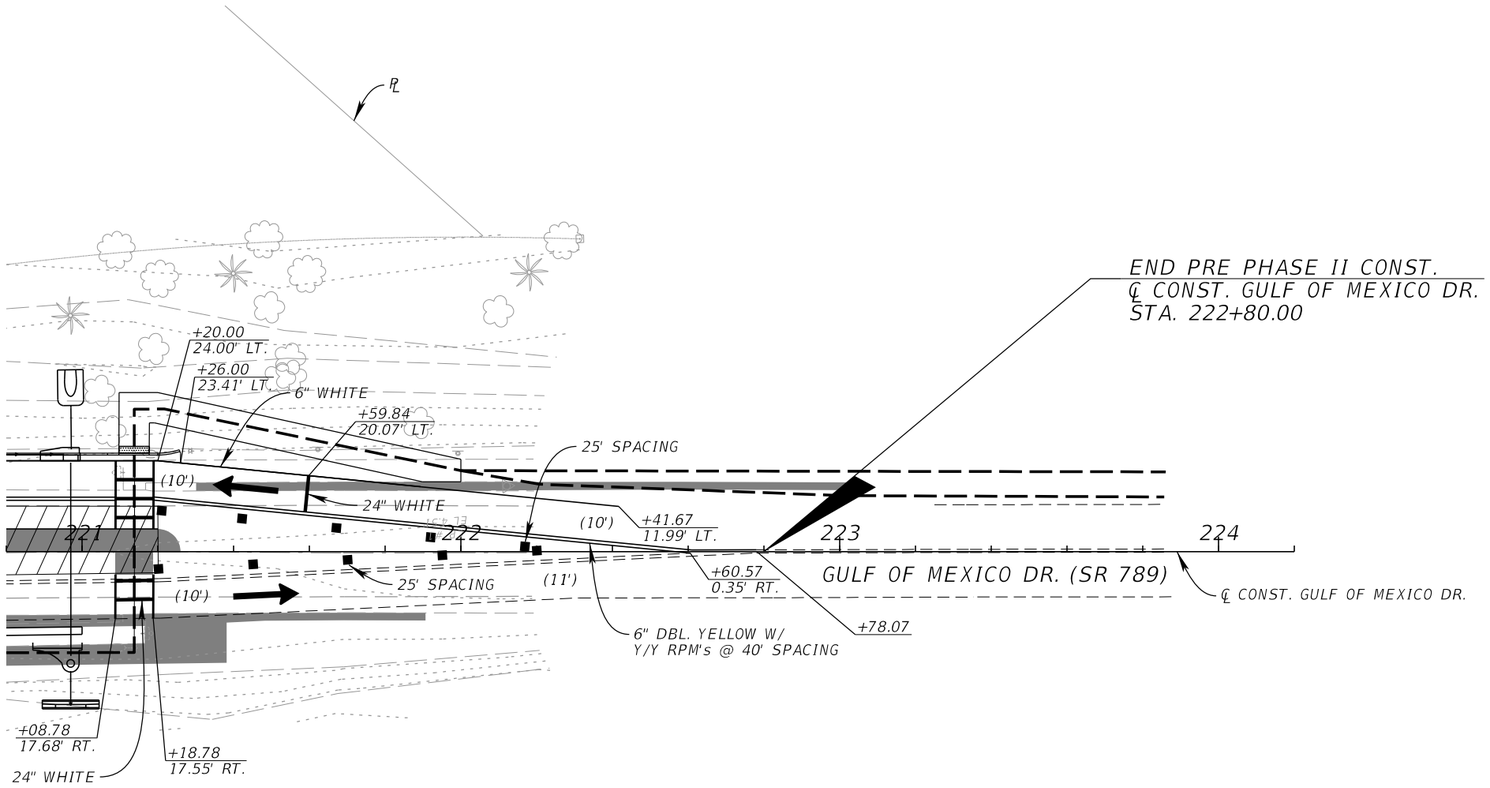
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PRE PHASE II (4)

SHEET NO. 74

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

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Seth.Kline 2/12/2026 3:23:47 PM



N

0 10 40

Feet

LEGEND

- PAVEMENT FROM PREVIOUS PHASE
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

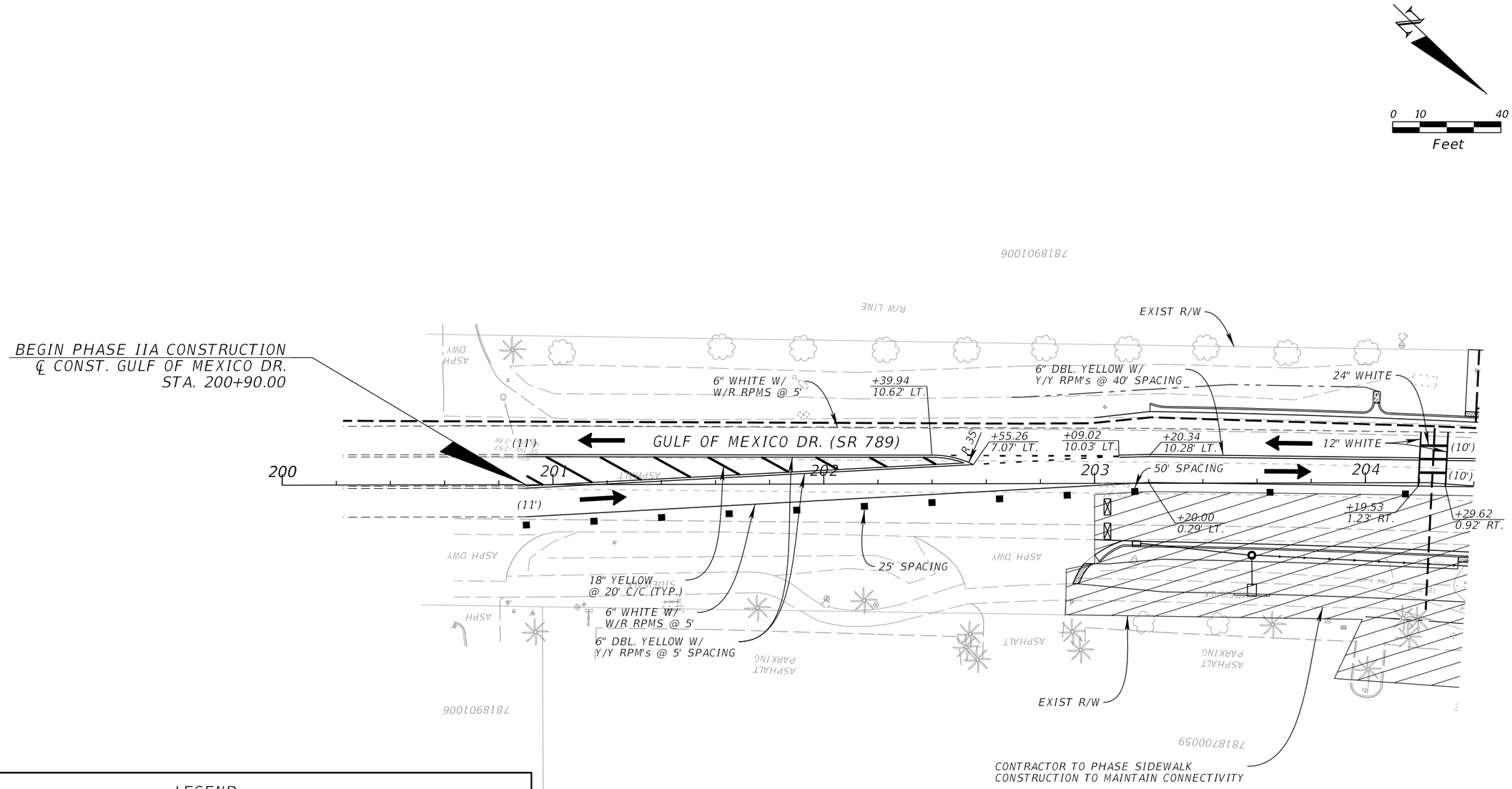
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PRE PHASE II (5)

SHEET NO. 75

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

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Seth.Kline 2/12/2026 3:23:49 PM



LEGEND

- TEMPORARY PAVEMENT
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

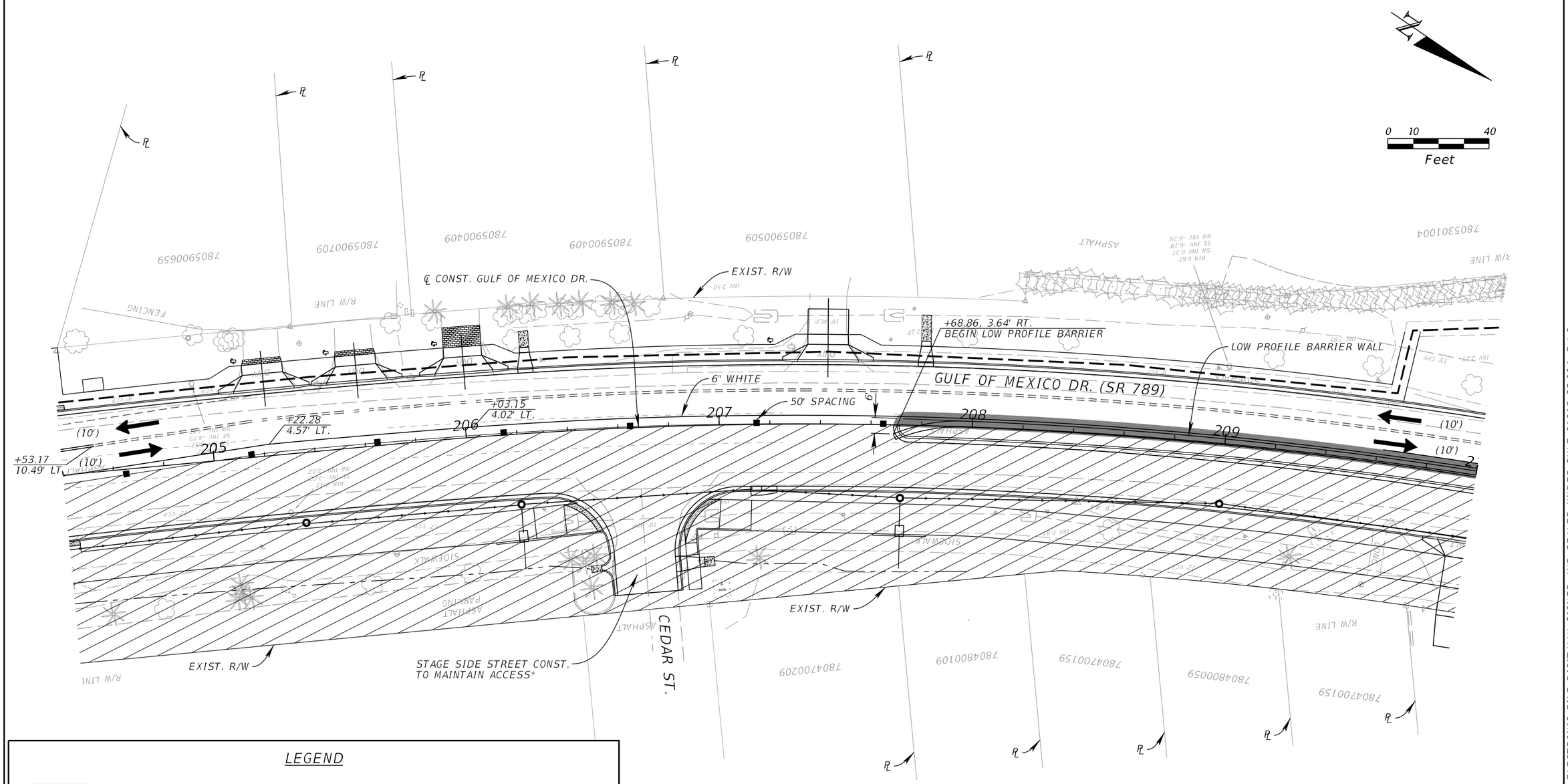
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PHASE IIA (1)

SHEET NO. 76

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

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Seth.Kline 2/12/2026 3:41:04 PM



LEGEND

- PAVEMENT FROM PREVIOUS PHASE
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

*NOTE: CEDAR STREET CONSTRUCTION WILL NEED TO BE STAGE CONSTRUCTED TO PROVIDE SINGLE LANE ACCESS USING SINGLE LANE CLOSURES. THIS WILL NEED TO BE DONE EARLY IN PHASE IIA TO PROVIDE ACCESS TO THE RESIDENTIAL COMMUNITY EAST OF GULF OF MEXICO DRIVE.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

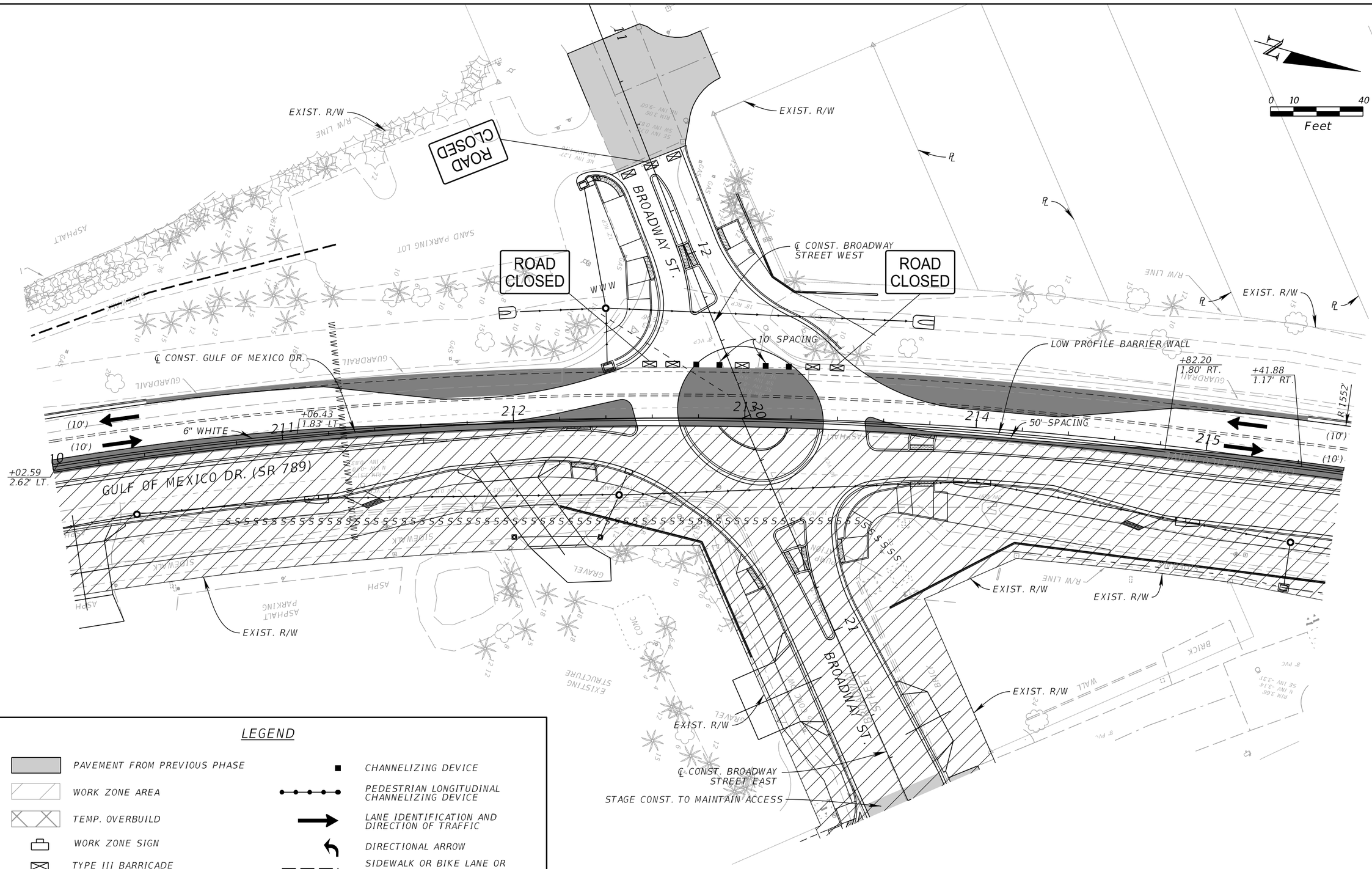
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PHASE IIA (2)

SHEET NO. 77

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

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Seth.Kline 2/12/2026 3:41:14 PM



LEGEND

- PAVEMENT FROM PREVIOUS PHASE
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

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SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

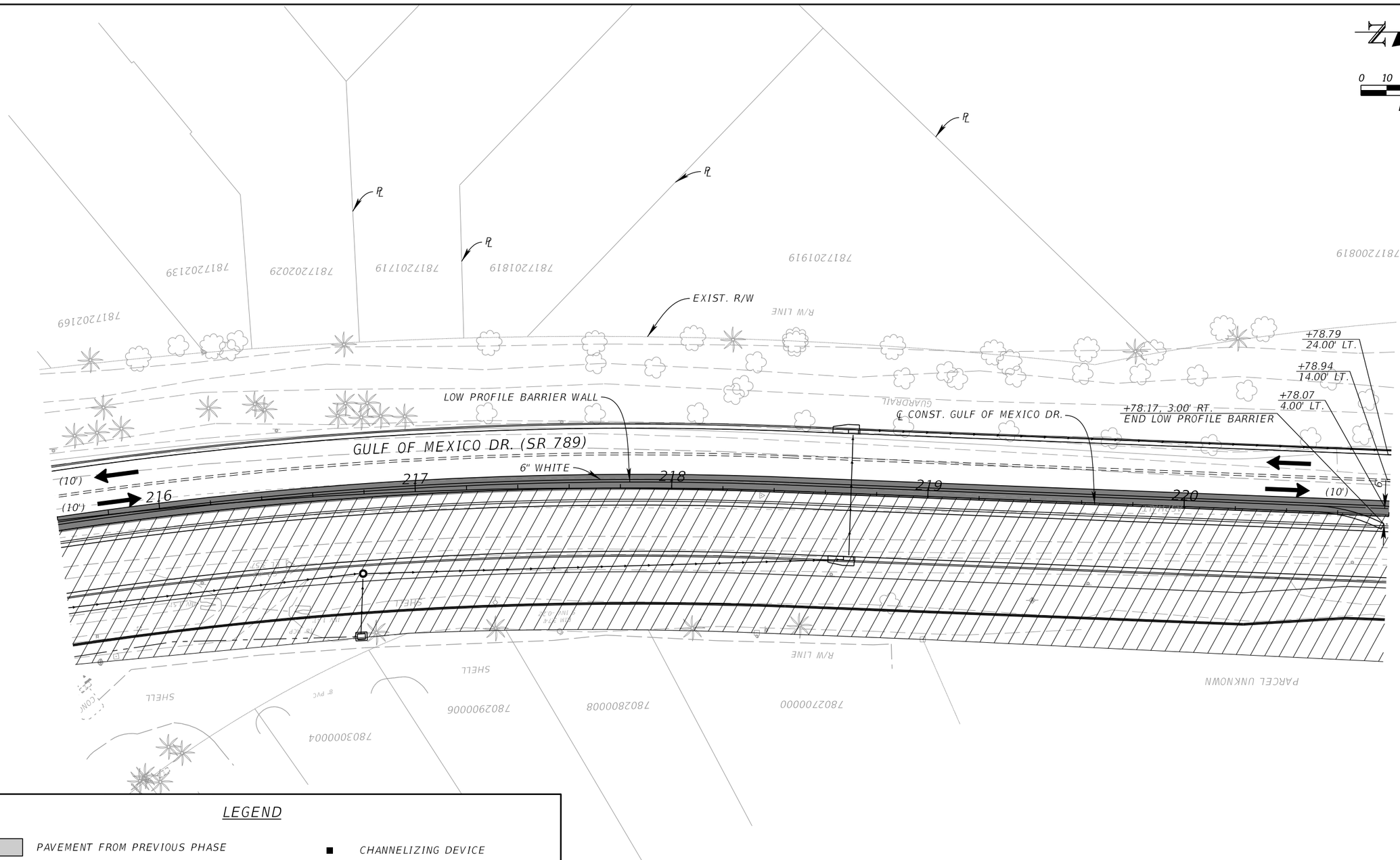
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PHASE IIA (3)

SHEET NO. 78

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

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Maria.Nava 4/9/2026 1:39:37 PM



0 10 40
Feet

LEGEND

- PAVEMENT FROM PREVIOUS PHASE
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
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1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

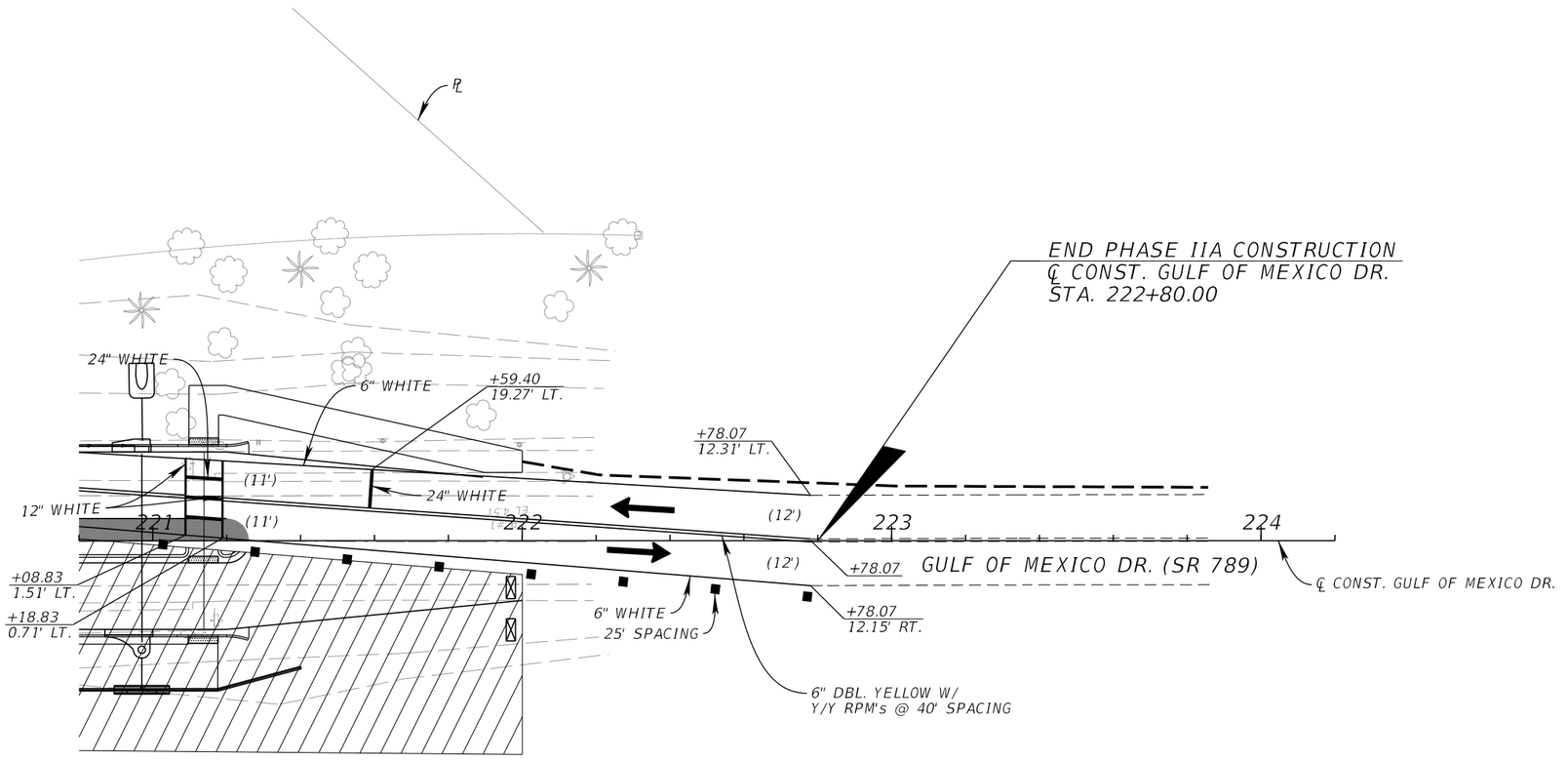
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

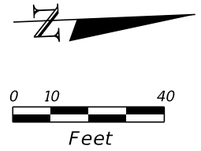
TTCP
PHASE IIA (4)

SHEET NO. 79

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

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Seth.Kline 2/12/2026 3:41:17 PM





LEGEND

- PAVEMENT FROM PREVIOUS PHASE
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
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KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

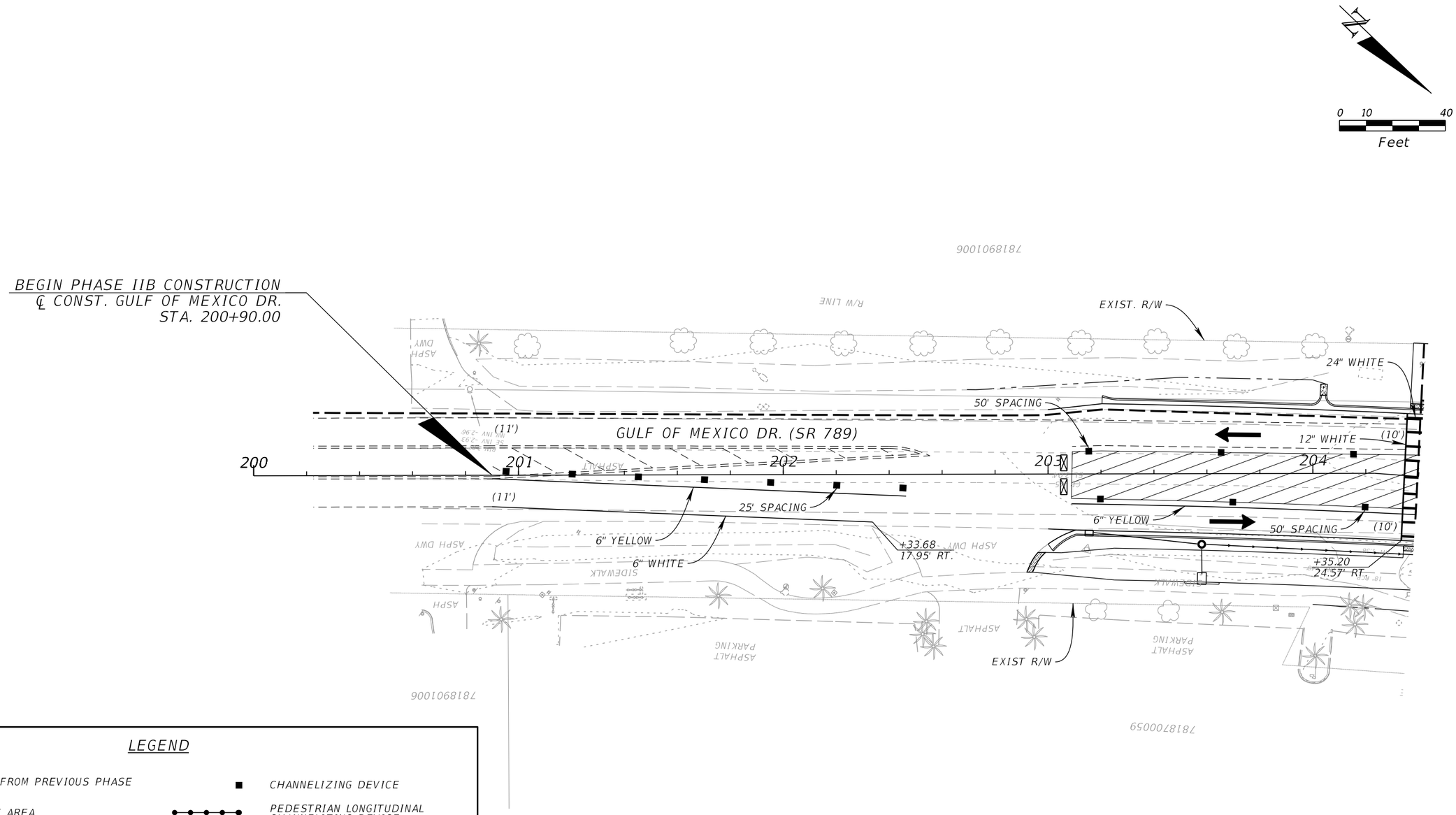
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PHASE IIA (5)

SHEET NO. 80

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Seth.Kline 2/12/2026 3:41:18 PM



LEGEND

- PAVEMENT FROM PREVIOUS PHASE
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

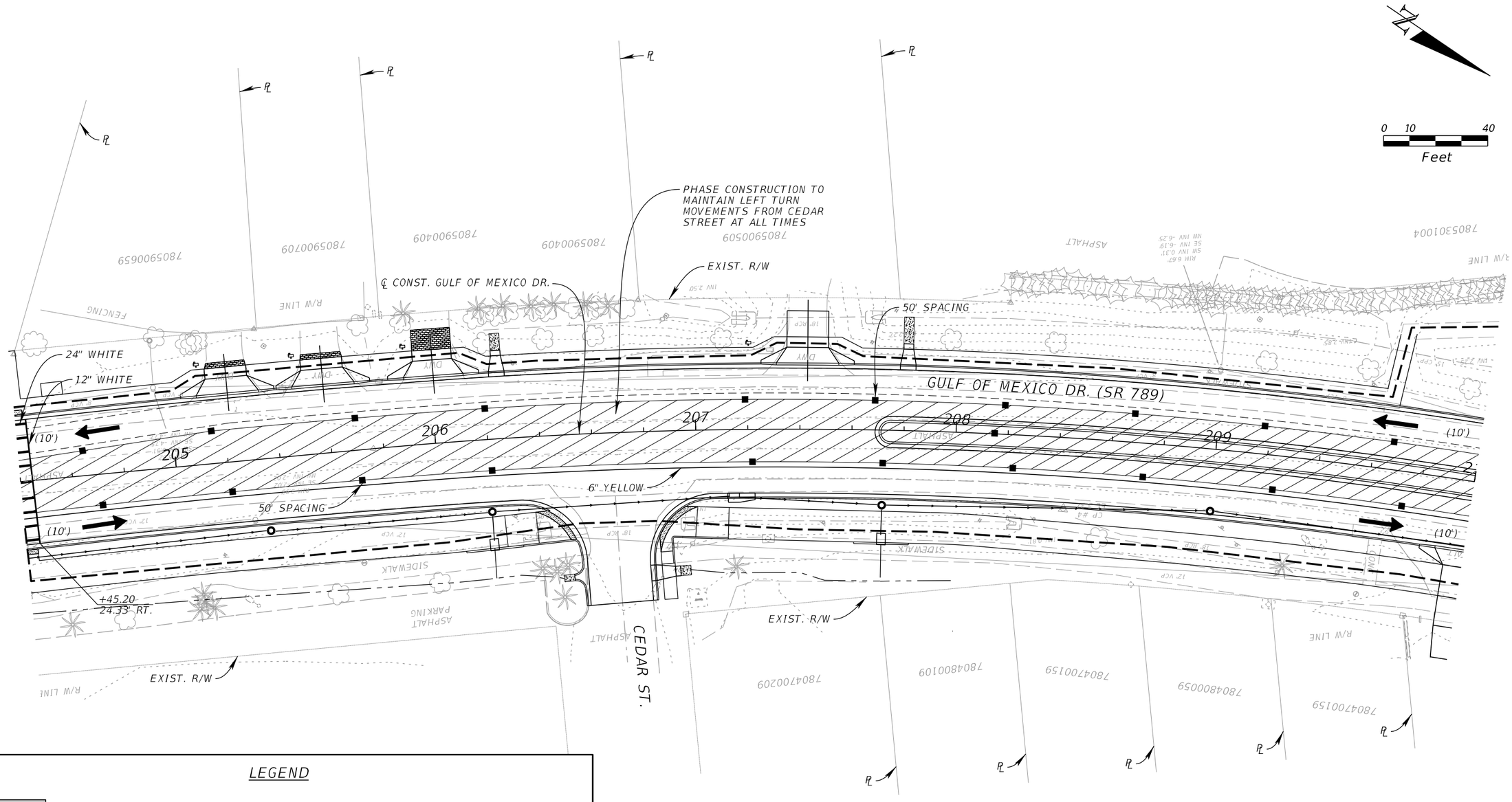
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PHASE IIB (1)

SHEET NO. 81

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

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Seth.Kline 2/12/2026 4:19:50 PM



LEGEND

- PAVEMENT FROM PREVIOUS PHASE
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

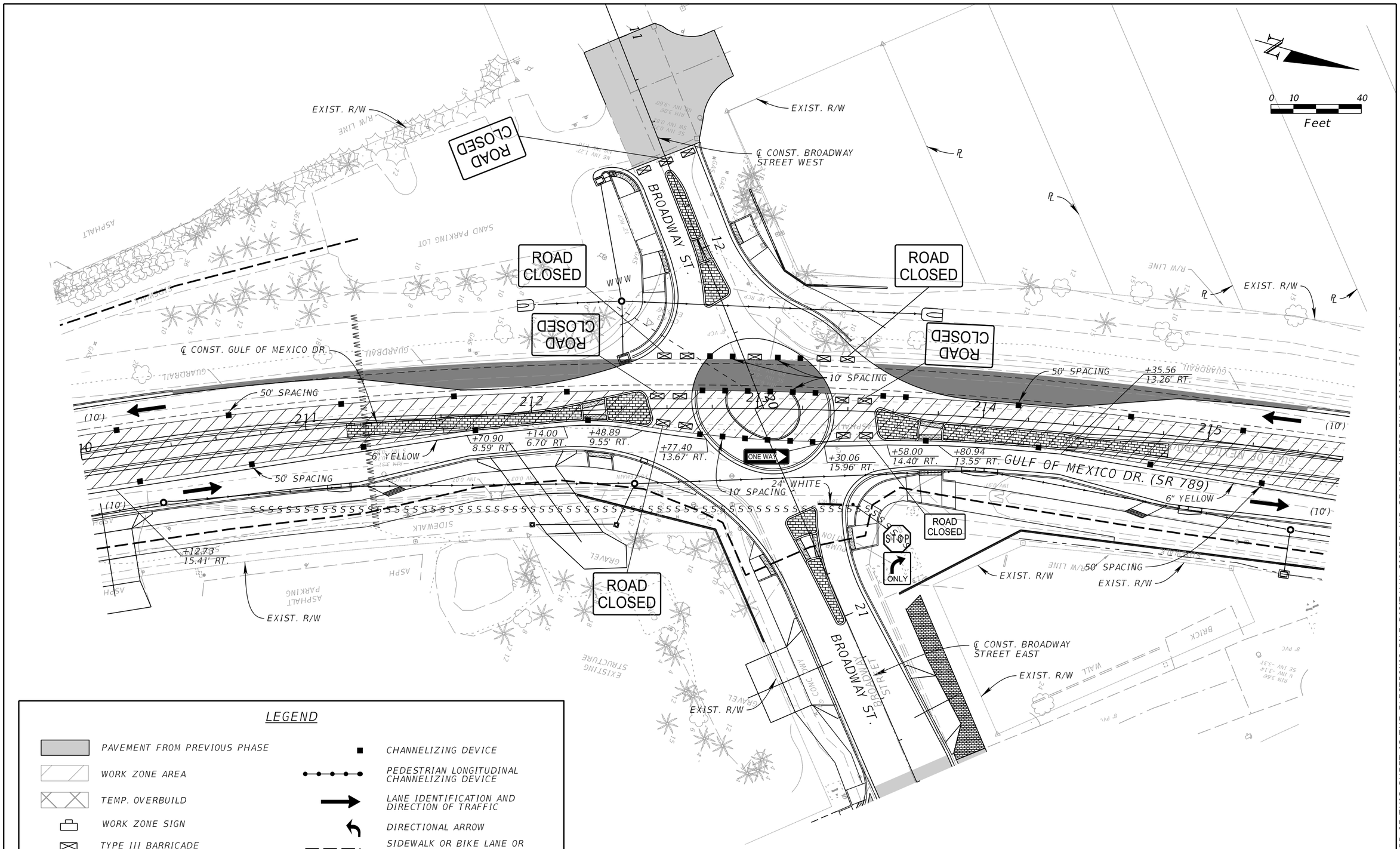
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PHASE IIB (2)

SHEET NO. 82

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

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Seth.Kline 2/12/2026 4:20:00 PM



LEGEND

- PAVEMENT FROM PREVIOUS PHASE
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

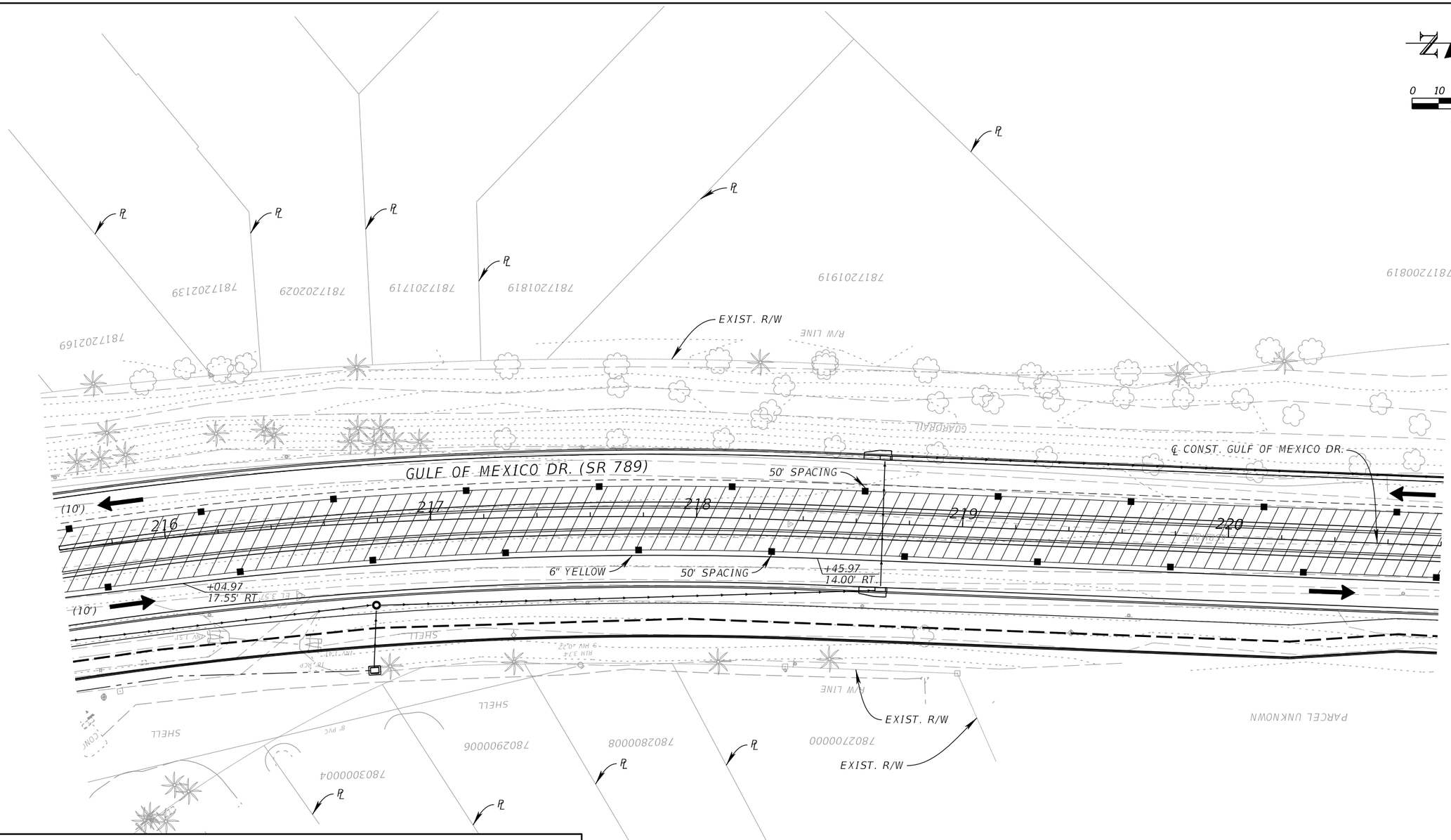
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PHASE IIB (3)

SHEET NO. 83

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

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Maria.Nava 4/9/2026 1:41:06 PM



LEGEND

- PAVEMENT FROM PREVIOUS PHASE
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

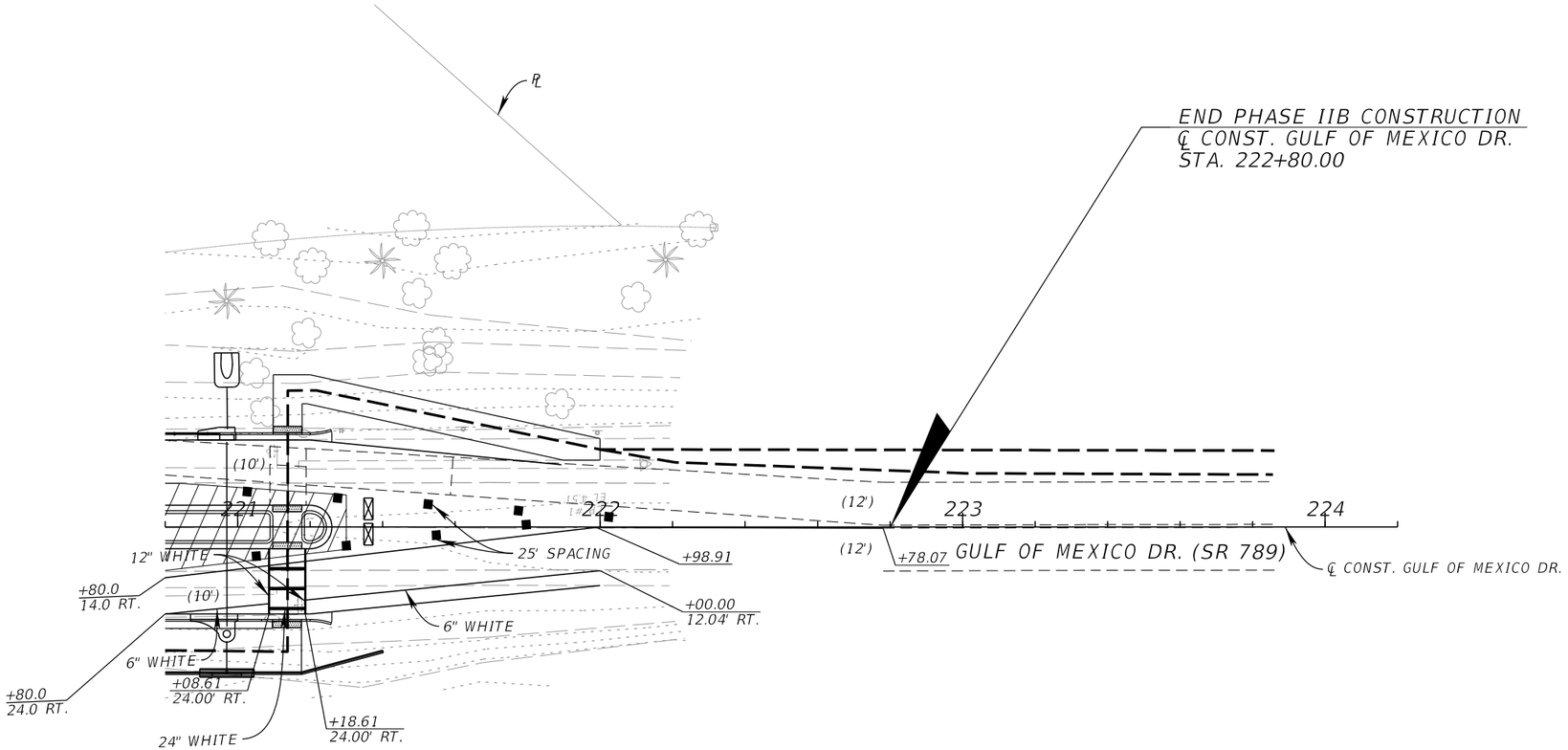
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PHASE IIB (4)

SHEET NO. 84

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

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Seth.Kline 2/12/2026 4:20:04 PM



0 10 40

Feet

LEGEND

- PAVEMENT FROM PREVIOUS PHASE
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

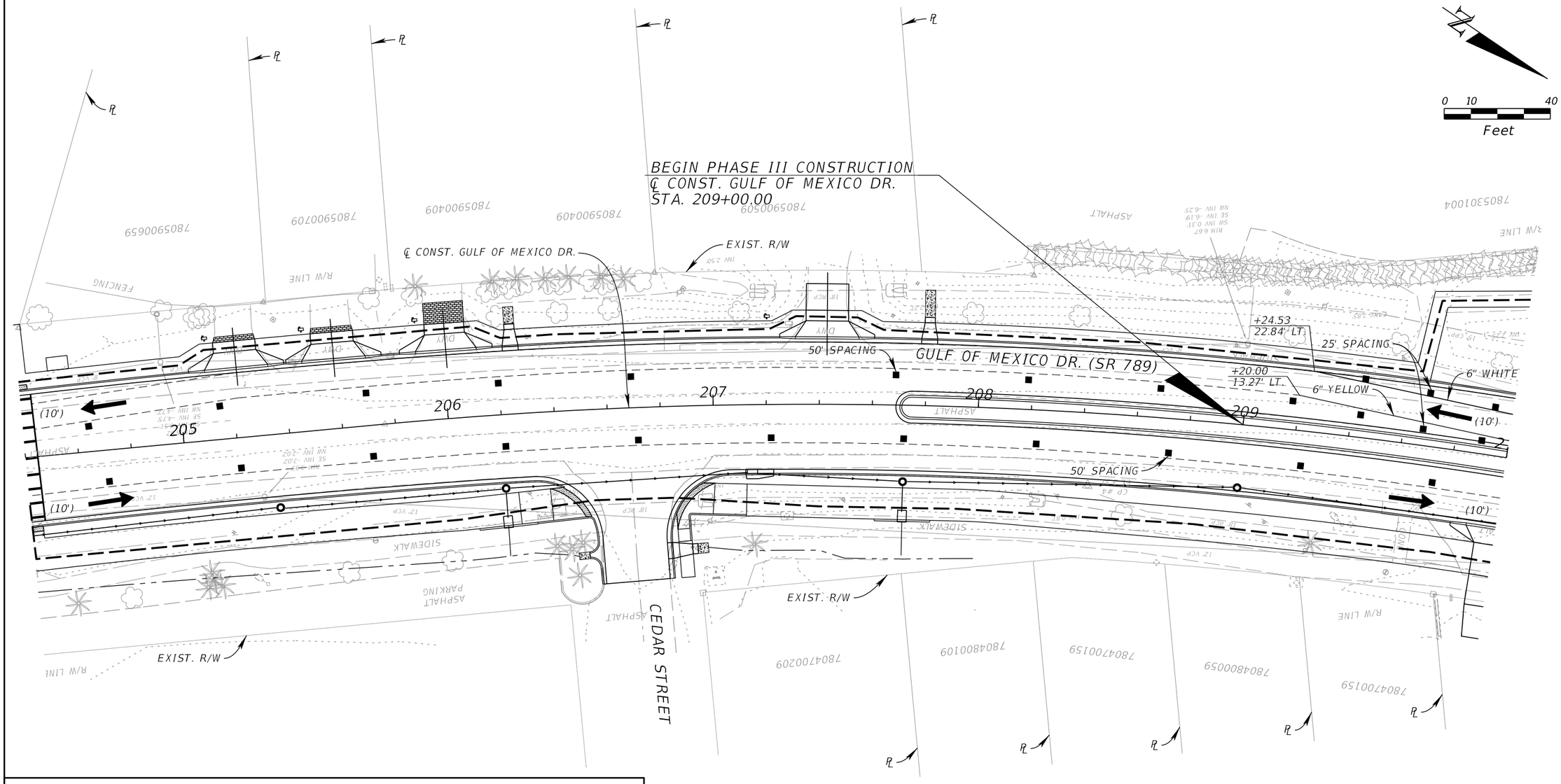
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PHASE IIB (5)

SHEET NO. 85

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

c:\pw\kh1\d0576572\TCPLRD05.dgn : CL_CONSTGMD-1 - PLAN 5 [SHEET]
Seth.Kline 2/12/2026 4:20:05 PM



LEGEND

- TEMPORARY PAVEMENT
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

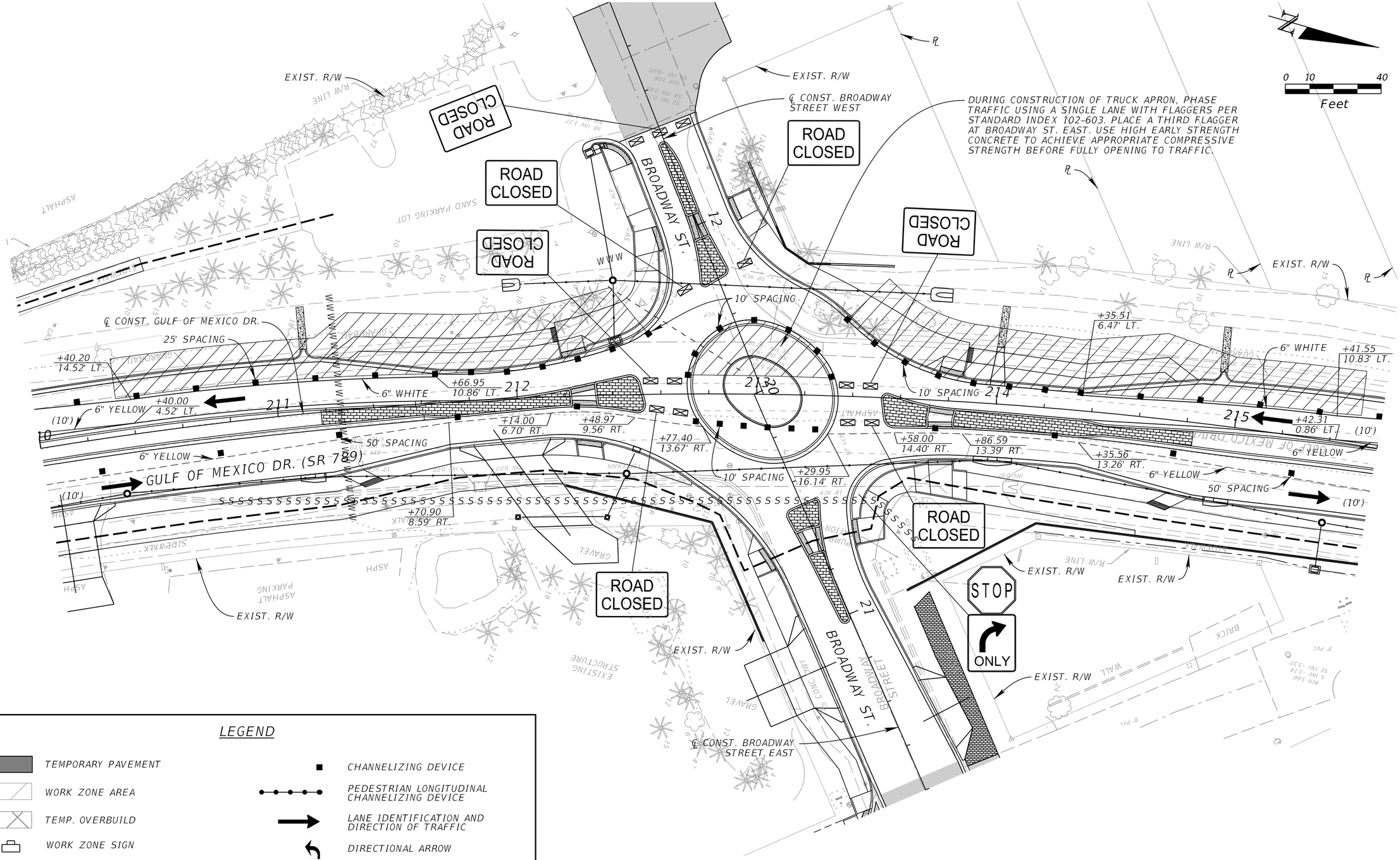
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PHASE III (1)

SHEET NO. 86

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

c:\pw\kh1\d0576572\TCPLRD06.dgn : CL_CONSTGMD - PLAN 2 [SHEET]
Seth.Kline 2/12/2026 5:27:46 PM



LEGEND

- TEMPORARY PAVEMENT
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

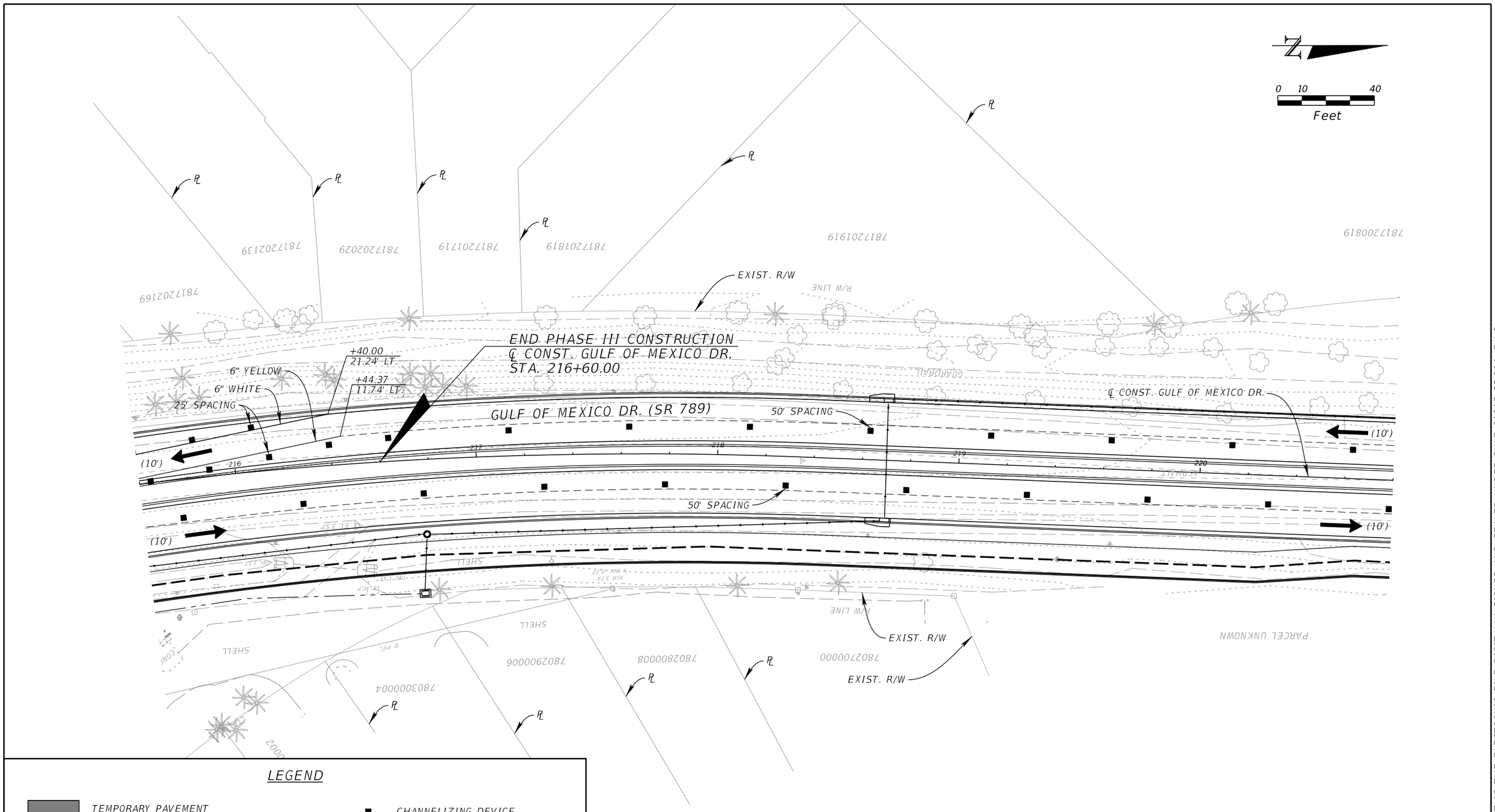
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PHASE III (2)

SHEET NO. 87

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c:\pw\kh1\d0576572\TCPLRD06.dgn : CL_CONSTGMD - PLAN 3 [SHEET]
Maria.Nava 4/9/2026 1:54:06 PM



LEGEND

- TEMPORARY PAVEMENT
- WORK ZONE AREA
- TEMP. OVERBUILD
- WORK ZONE SIGN
- TYPE III BARRICADE
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

TTCP
PHASE III (3)

SHEET NO. 88

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

c:\pw\kh1\d0576572\TCPLRD06.dgn : CL_CONSTGMD - PLAN 4 [SHEET]
Seth.Kline 2/12/2026 5:27:57 PM

LEGEND

- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- WORK ZONE SIGN
- PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGN
- TYPE III BARRICADE
- WORK ZONE

MESSAGE 1:	MESSAGE 2:
BROADWAY ST. WEST CLOSED	FOLLOW DETOUR

N

0 50 200
Feet

PALMETTO AVE.
SEABREEZE AVE.
FIREHOUSE RD.
FIREHOUSE CT
BROADWAY ST. (WEST)
GULF OF MEXICO DR.
N SHORE ROAD
BROADWAY ST. (EAST)
LONGBOAT DR S.
CEDAR ST.

DETOUR
END DETOUR
ROAD CLOSED
LOCAL TRAFFIC ONLY
789
BROADWAY STREET WEST
DETOUR AHEAD
MESSAGE 1 & 2
2640'
1320'

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DETOUR PHASE IB

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		89
					SR 789	MANATEE	453730-1-52-01		



DETOUR PRE PHASE IIA
CEDAR STREET CONST.

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		90
					SR 789	MANATEE	453730-1-52-01		

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Seth.Kline 2/12/2026 5:33:06 PM

LEGEND

- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DIRECTIONAL ARROW
- WORK ZONE SIGN
- PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGN
- TYPE III BARRICADE
- WORK ZONE

MESSAGE 1:	MESSAGE 2:
BROADWAY ST. EAST CLOSED	FOLLOW DETOUR

N

0 50 200

Feet

SEABREEZE AVE.

PALMETTO AVE.

FIREHOUSE RD.

FIREHOUSE CT

BROADWAY ST. (WEST)

ROAD CLOSED

ROAD CLOSED

GULF OF MEXICO DR.

MESSAGE 1 & 2

N SHORE ROAD

2640'

DETOUR BROADWAY STREET EAST

ROAD CLOSED

ROAD CLOSED

BROADWAY STREET EAST DETOUR

BROADWAY STREET EAST DETOUR

BROADWAY ST. (EAST)

BROADWAY STREET EAST DETOUR

DETOUR AHEAD

END DETOUR

LONGBOAT DR S.

CEDAR ST.

1320'

MESSAGE 1 & 2

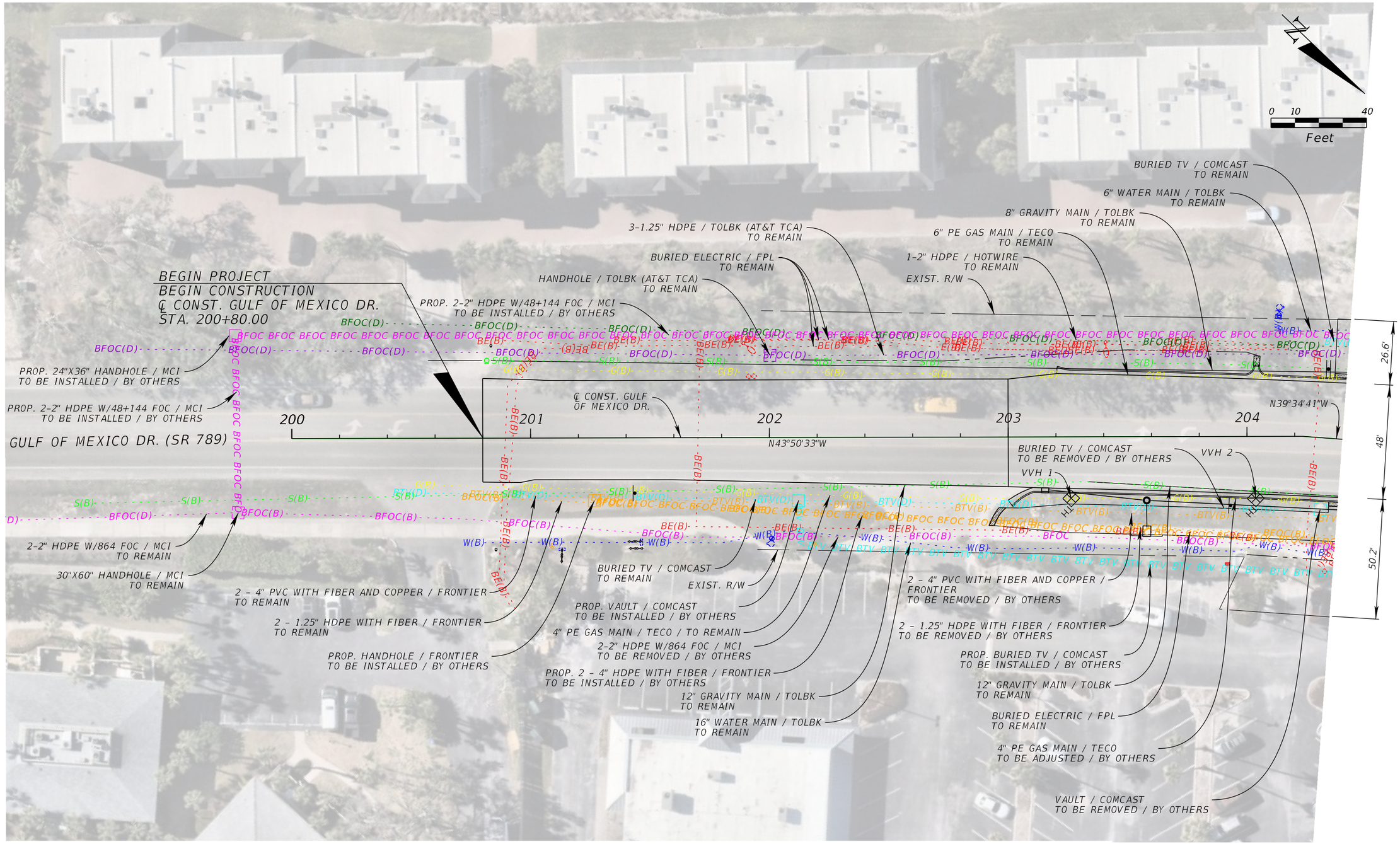
BROADWAY STREET EAST DETOUR

DETOUR PHASE IIA
BROADWAY EAST CONST.

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		91
					SR 789	MANATEE	453730-1-52-01		

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Seth.Kline 2/12/2026 5:35:09 PM



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

GARY J. NADEAU, P.E.
LICENSE NUMBER: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

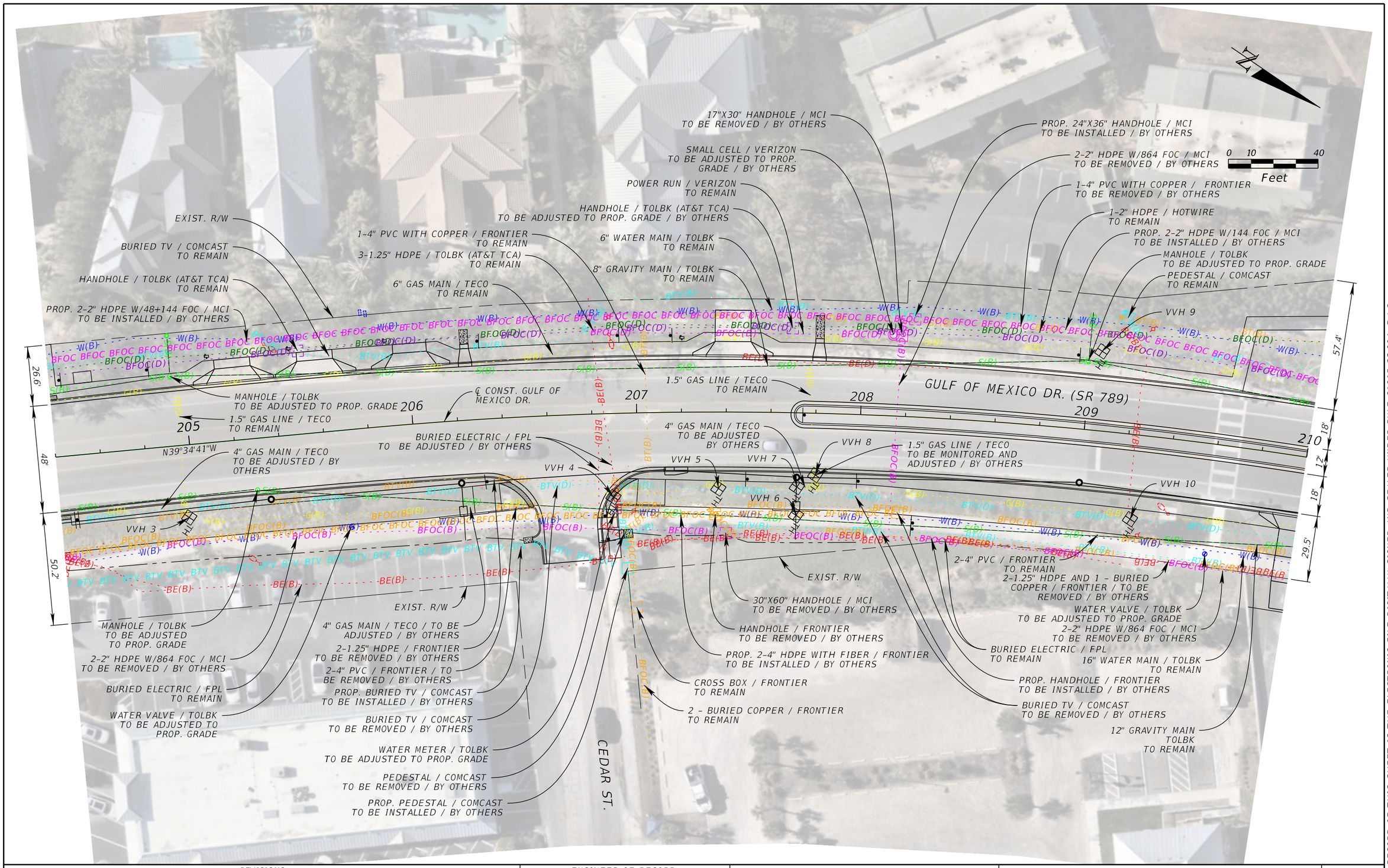
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

UTILITY ADJUSTMENT (1)

SHEET NO. 92

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

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Seth.Kline 4/6/2026 4:20:02 PM



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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENT (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		93
					SR 789	MANATEE	453730-1-52-01		

c:\pw\kh1\d0576550\UTADRD01.dgn : CL_CONSTGMD - PLAN 2 [SHEET]
Seth.Kline 4/6/2026 4:22:55 PM

Ⓐ HANDHOLE / TOLBK (AT&T TCA) / TO BE ADJUSTED TO PROP. GRADE / BY OTHERS
Ⓑ VAULT / COMCAST TO BE REMOVED / BY OTHERS
Ⓒ BURIED TV / COMCAST TO BE ADJUSTED / BY OTHERS
Ⓓ WATER METER / TOLBK TO BE ADJUSTED TO PROP. GRADE
Ⓔ 6" GAS MAIN / TECO TO BE ADJUSTED / BY OTHERS
Ⓕ WATER VALVE / TOLBK TO BE ADJUSTED TO PROP. GRADE / BY OTHERS
Ⓖ MANHOLE / TOLBK TO BE ADJUSTED TO PROP. GRADE / BY OTHERS
Ⓗ 1-2" HDPE / HOTWIRE / TO BE ADJUSTED / BY OTHERS
Ⓘ 4" GAS MAIN / TECO TO BE ADJUSTED / BY OTHERS
Ⓙ 4" PVC / FRONTIER TO BE REMOVED / BY OTHERS
Ⓚ 2-4" PVC AND 1 - BURIED COPPER / FRONTIER / TO BE REMOVED / BY OTHERS
Ⓛ PEDESTAL / FRONTIER TO BE REMOVED / BY OTHERS
Ⓜ HANDHOLE / FRONTIER TO BE REMOVED / BY OTHERS
Ⓝ HANDHOLE AND HUB / FRONTIER TO BE REMOVED / BY OTHERS
Ⓞ PROP. HANDHOLE AND HUB / FRONTIER TO BE INSTALLED / BY OTHERS
Ⓟ 2-1.25" HDPE / FRONTIER TO BE ADJUSTED / BY OTHERS
Ⓠ PROP. HANDHOLE / FRONTIER TO BE INSTALLED / BY OTHERS
Ⓡ PROP. 30"X60" HANDHOLE / MCI TO BE INSTALLED / BY OTHERS
Ⓢ WATER VALVE / TOLBK TO BE REMOVED / BY OTHERS
Ⓣ 2-4" PVC / FRONTIER TO BE ADJUSTED / BY OTHERS

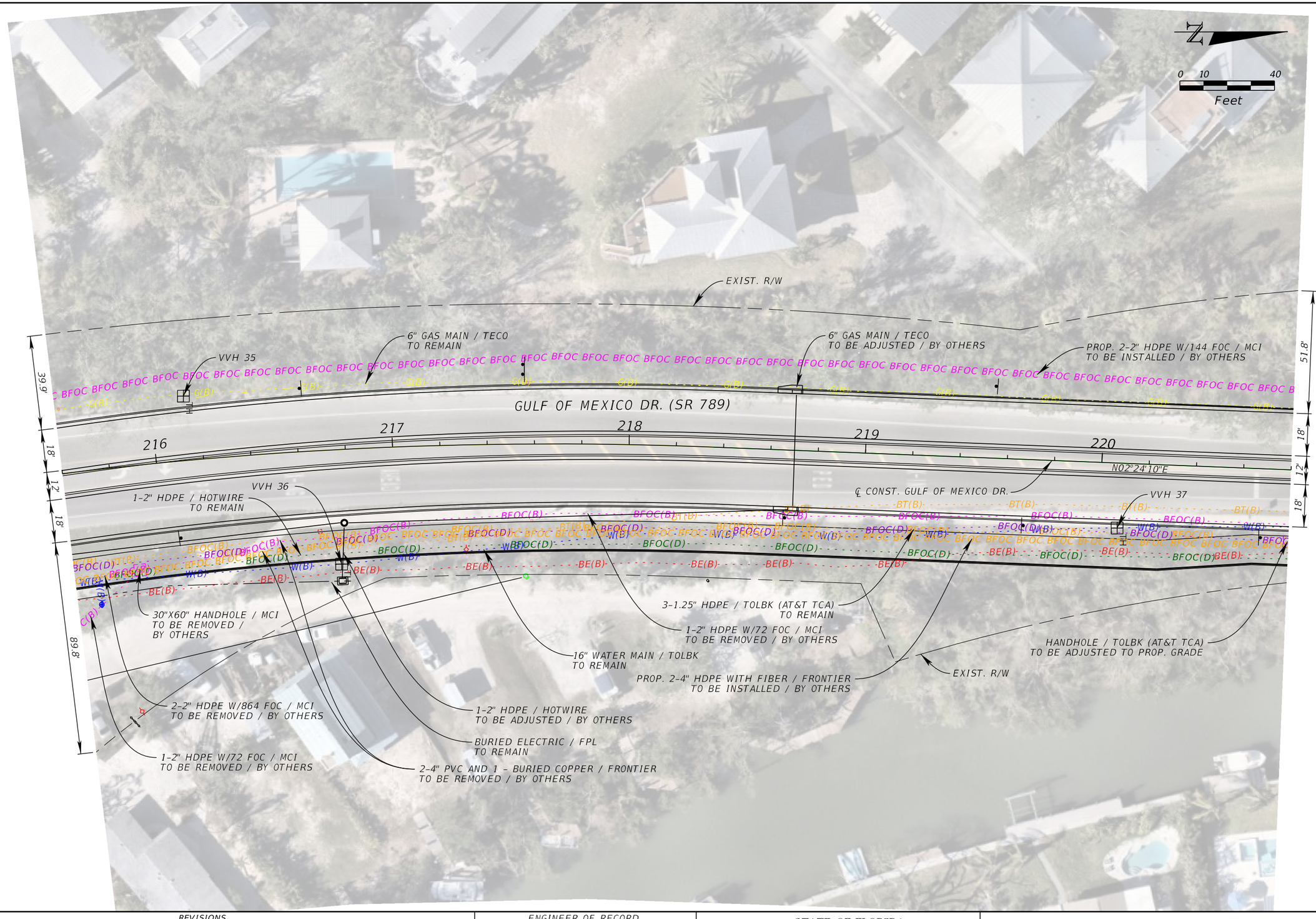
0 10 40 Feet

℄ CONST. BROADWAY STREET WEST
EXIST. R/W
BURIED ELECTRIC / FPL TO REMAIN
4" GAS MAIN / TECO TO BE ADJUSTED / BY OTHERS
PEDESTAL W/ BTV / COMCAST TO BE ADJUSTED
4" GAS MAIN / TECO TO REMAIN
3 - BURIED COPPER / COMCAST TO REMAIN
1-2" HDPE / HOTWIRE TO REMAIN
3-1.25" HDPE / TOLBK (AT&T TCA) TO REMAIN
6" WATER MAIN / TOLBK TO REMAIN
4" GAS MAIN / TECO TO REMAIN
BROADWAY ST.
N52°29'34"E
FIREHOUSE RD.
1 - BURIED COPPER / COMCAST TO REMAIN
VVH 19
VVH 20
VVH 21
VVH 15
VVH 16
VVH 17
VVH 18
VVH 22
8" GRAVITY MAIN / TOLBK / SEE UWHCA PLANS
HANDHOLE / TOLBK (AT&T TCA) TO BE ADJUSTED TO PROP. GRADE / BY OTHERS
EXIST. R/W
PROP. 2-2" HDPE W/144 FOC / MCI TO BE INSTALLED / BY OTHERS
1-2" HDPE / HOTWIRE TO REMAIN
6" GAS MAIN / TECO TO BE ADJUSTED / BY OTHERS
6" GAS MAIN / TECO TO REMAIN
VVH 33
VVH 12
VVH 13
VVH 14
VVH 24
VVH 25
VVH 26
VVH 23
VVH 29
VVH 32
VVH 27
VVH 28
VVH 30
VVH 31
HANDHOLE / TOLBK (AT&T TCA) TO BE ADJUSTED TO PROP. GRADE
BURIED ELECTRIC FPL / TO REMAIN
EXIST. R/W 3-1.25" HDPE / TOLBK (AT&T TCA) TO REMAIN
BURIED TV / COMCAST TO BE REMOVED / BY OTHERS
2-2" HDPE W/864 FOC / MCI TO BE REMOVED / BY OTHERS
℄ CONST. BROADWAY STREET EAST
BURIED ELECTRIC / FPL TO REMAIN
VVH 34
EXIST. R/W
1-2" HDPE W/72 FOC / MCI TO BE REMOVED / BY OTHERS
PALM DR.
℄ CONST. GULF OF MEXICO DR.
GULF OF MEXICO DR. (SR 789)
2-4" PVC / FRONTIER TO REMAIN
BURIED TV / COMCAST TO BE ADJUSTED / BY OTHERS
12" GRAVITY MAIN / TOLBK TO REMAIN
MANHOLE / TOLBK SEE UWHCA PLANS
BURIED TV / COMCAST TO BE REMOVED / BY OTHERS
4" GAS MAIN / TECO TO BE ADJUSTED / BY OTHERS
VVH 11
BURIED ELECTRIC / FPL TO REMAIN
1-1.25" HDPE / FRONTIER TO BE REMOVED / BY OTHERS
8" FORCE MAIN / TOLBK SEE UWHCA PLANS
2-2" HDPE W/864 FOC / MCI TO BE REMOVED / BY OTHERS
16" WATER MAIN / TOLBK TO REMAIN
6" WATER MAIN / TOLBK SEE UWHCA PLANS
PEDESTAL / COMCAST TO BE REMOVED / BY OTHERS
HYDRANT / TOLBK TO BE ADJUSTED TO PROP. GRADE
2-1.5" HDPE / FRONTIER TO REMAIN
6" WATER MAIN / TOLBK TO REMAIN
4" GAS MAIN / TECO TO REMAIN
BURIED ELECTRIC / FPL TO REMAIN
BURIED TV / COMCAST TO REMAIN
EXIST. R/W
PROP. 2-2" HDPE W/72 FOC / MCI TO BE INSTALLED / BY OTHERS
17"X30" HANDHOLE / MCI TO BE ADJUSTED TO PROP. GRADE / BY OTHERS
EXIST. R/W
N50°27'43"E
BROADWAY ST.
210
211
212
213
214
215
57.4'
18'
12'
18'
29.5'
39.9'
18'
12'
18'
89.8'

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENT (3)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		94
					SR 789	MANATEE	453730-1-52-01		

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

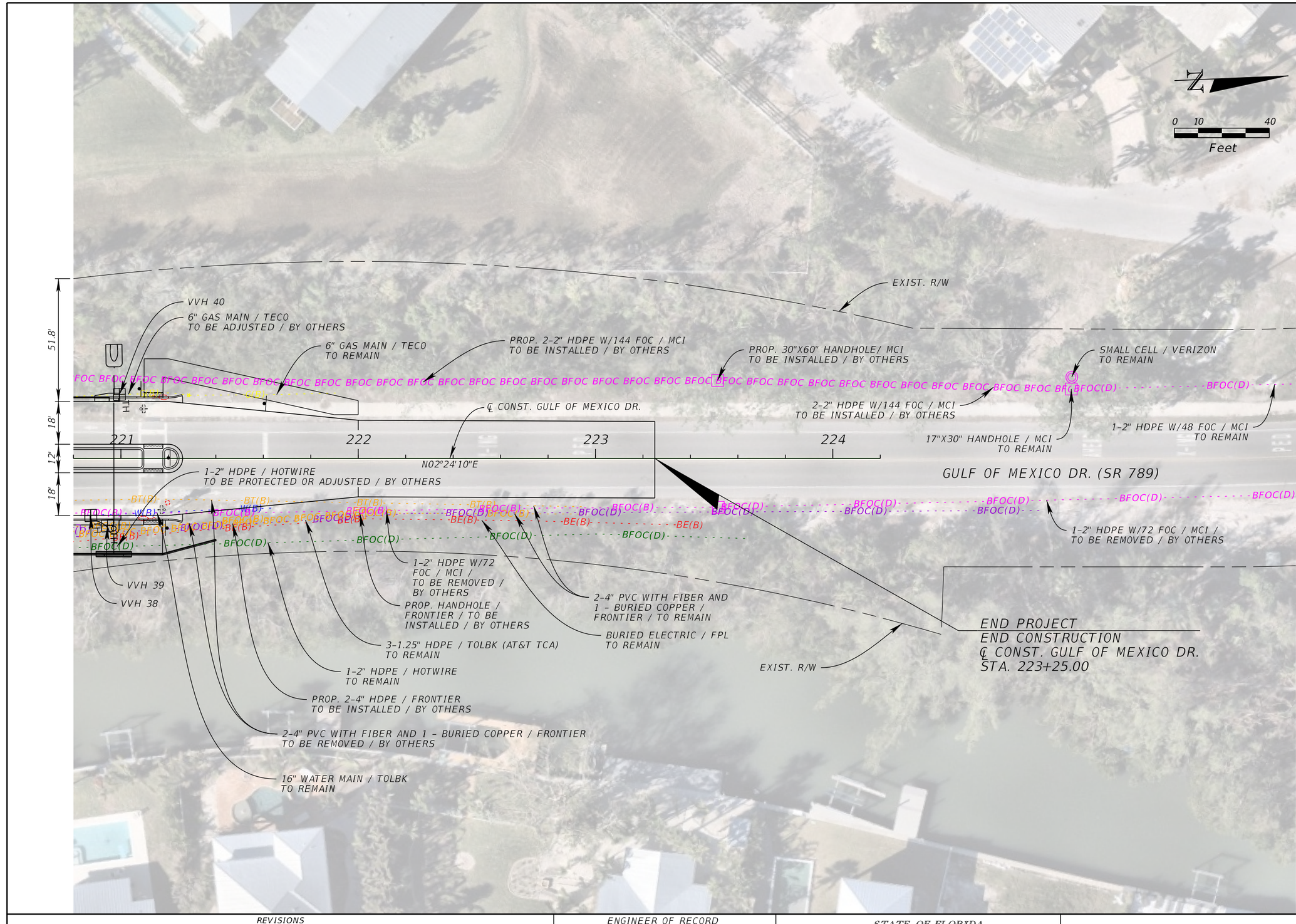
c:\pw\kh1\d0576550\UTADRD01.dgn : CL_CONSTGMD - PLAN 3 [SHEET]
Seth.Kline 4/6/2026 4:23:47 PM



REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENT (4)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		95
					SR 789	MANATEE	453730-1-52-01		

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

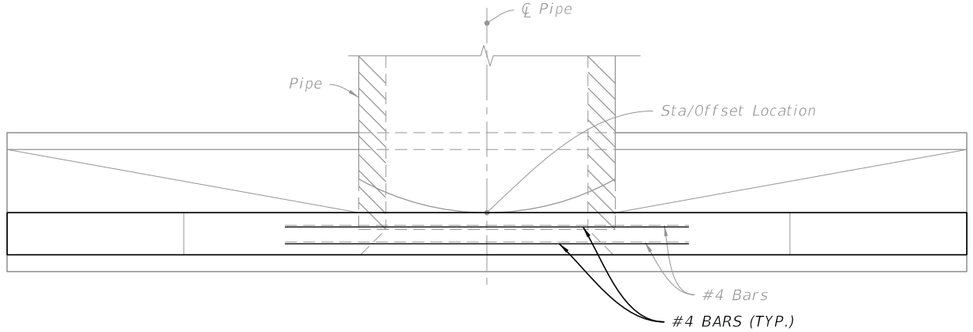
c:\pw\kh1\d0576550\UTADRD01.dgn : CL_CONSTGMD - PLAN 4 [SHEET]
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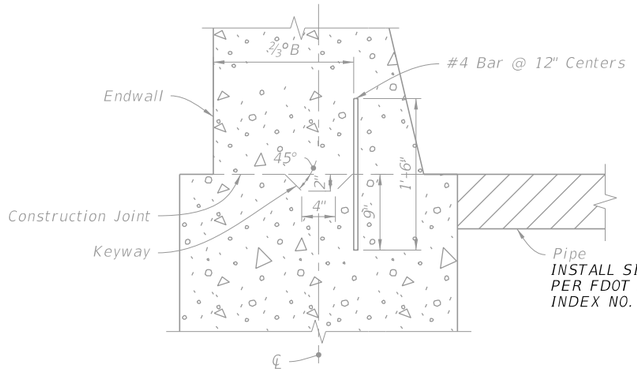
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENT (5)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		96
					SR 789	MANATEE	453730-1-52-01		

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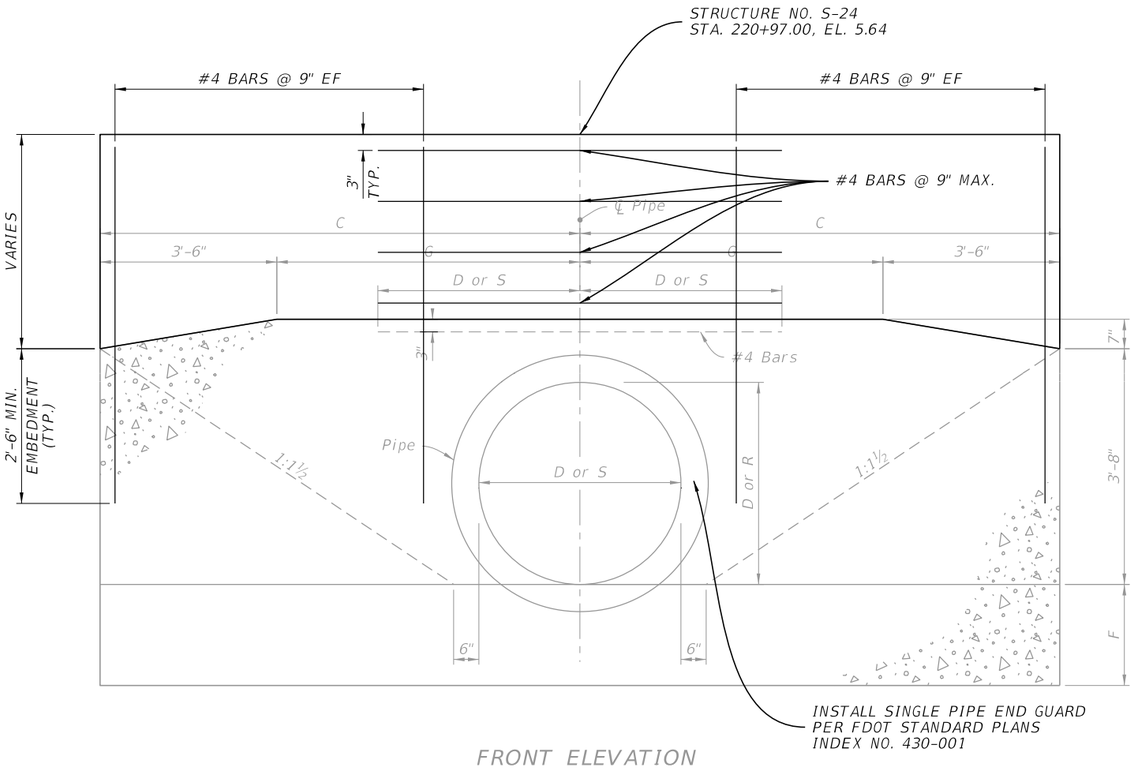
PLAN



INSTALL SINGLE PIPE END GUARD
PER FDOT STANDARD PLANS
INDEX NO. 430-001

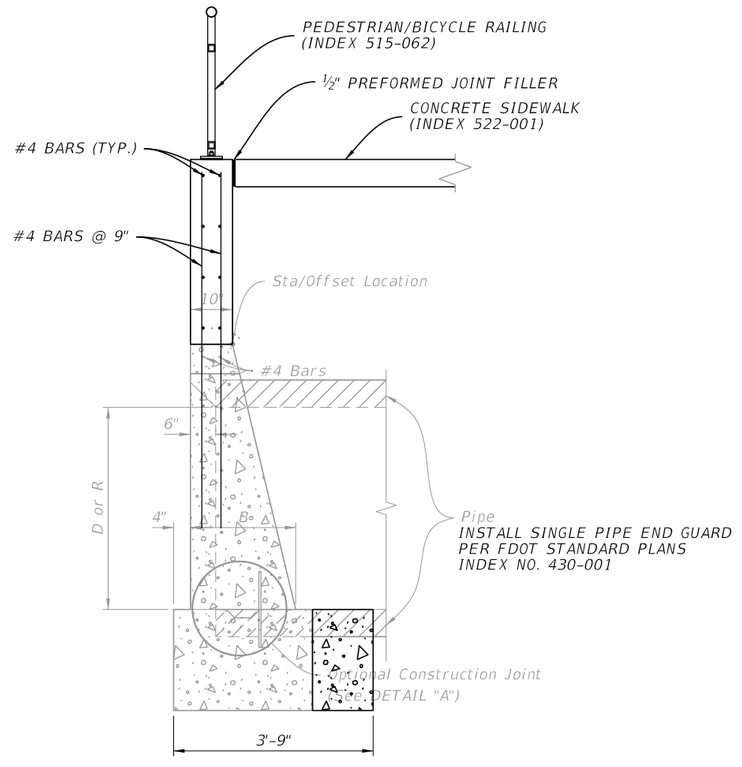
NOTE: Keyway and Dowels are required
for optional construction joint.

DETAIL "A"



INSTALL SINGLE PIPE END GUARD
PER FDOT STANDARD PLANS
INDEX NO. 430-001

FRONT ELEVATION



INSTALL SINGLE PIPE END GUARD
PER FDOT STANDARD PLANS
INDEX NO. 430-001

SIDE ELEVATION

NOTES:

1. WORK THIS SHEET WITH INDEX 430-030.
2. INSTALL SINGLE PIPE END GUARD PER FDOT STANDARD PLAN INDEX NO. 430-001.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
NOLAN B. VILLATORO, P.E.
LICENSE NUMBER: 93862
KIMLEY-HORN AND ASSOCIATES, INC.
200 SOUTH ORANGE AVENUE, SUITE 600
ORLANDO, FL 32801

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

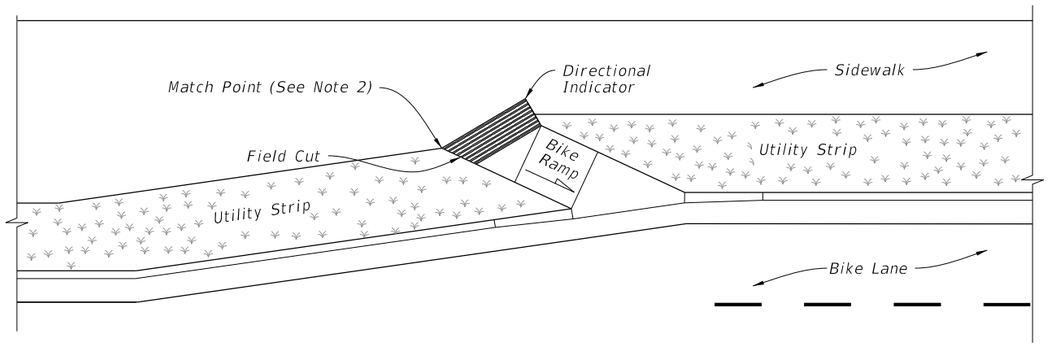
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

MODIFICATIONS TO STANDARD PLANS, INDEX 430-030

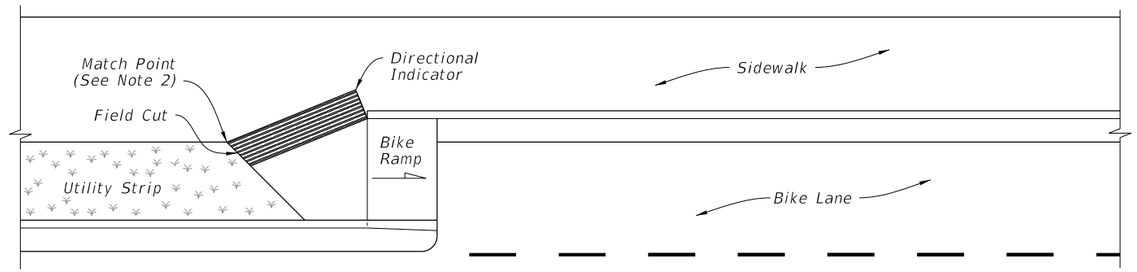
SHEET NO. 97

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

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Josie.Wiederkehr 4/6/2026 5:27:32 PM



ANGLED BICYCLE RAMP



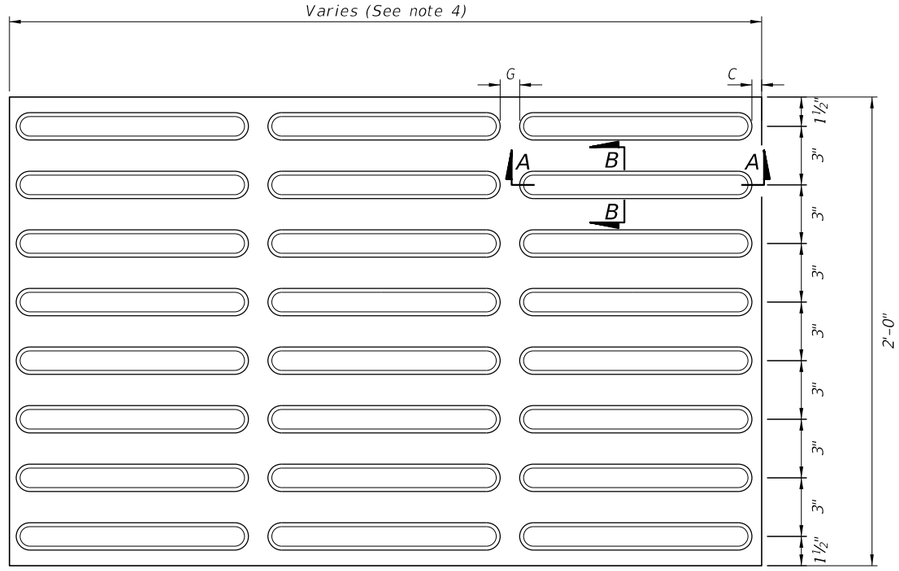
STRAIGHT BICYCLE RAMP

TYPICAL PLACEMENT ON BICYCLE RAMPS

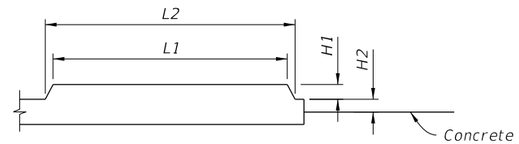
NOTES:

1. Construct Bicycle Ramp and locate Directional Tactile Walking Surface Indicator (Directional Indicator) as shown in the Plans. Extend Directional Indicators the full length of the bicycle ramp width.
2. Cut Directional Indicators to match skewed edges as shown.
3. Install Directional Indicators in accordance with Developmental Specification Dev528.
4. Panel lengths can vary based on vendor requirements and are not limited to three rows of raised bars as shown.
5. Panel widths can vary based on vendor requirements. Multiple panels can be placed side-by-side to achieve the overall 2'-0" width.

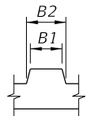
Dimension	Range (in.)
B1	0.70 to 1.00
B2	B1 + 0.40
C	0.35 to 0.60
G	0.45 to 1.20
H1	0.18 to 0.20
H2	0.12 Max.
L1	10.70 to 12.00
L2	L1 + 0.40



PLAN



SECTION A-A



SECTION B-B

DIRECTIONAL INDICATOR DETAILS

LAST REVISION	REVISION	DESCRIPTION:	FDOT DEVELOPMENTAL STANDARD PLANS	DIRECTIONAL INDICATOR	INDEX	SHEET
12/15/20					D528-001	1 of 1

12/15/2020 9:15:29 AM

CONTRACT PLANS COMPONENTS

ROADWAY
SIGNING AND PAVEMENT MARKING
LIGHTING

INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	SIGNATURE SHEET
L-3	POLE DATA AND LEGEND
L-4 - L-6	LIGHTING PLAN SHEETS
L-7	SERVICE POINT DETAILS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

LIGHTING PLANS

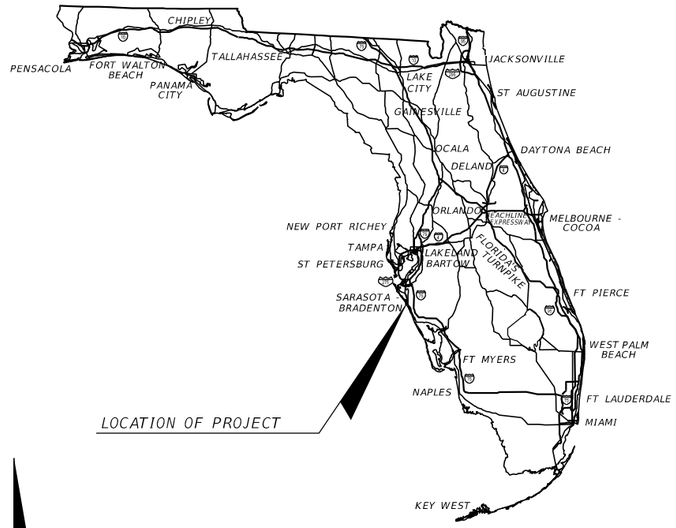
FINANCIAL PROJECT ID 453730-1-52-01, 453730-1-52-02

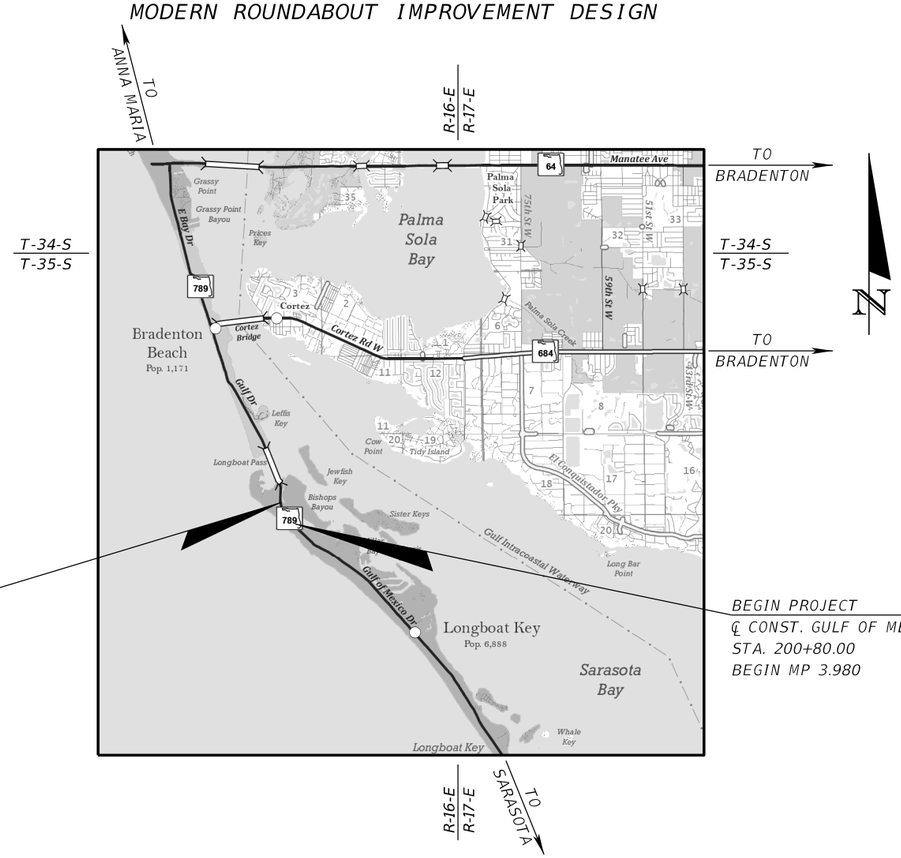
(FEDERAL FUNDS)
MANATEE COUNTY (13080)

STATE ROAD NO. 789 (GULF OF MEXICO DR.)

MODERN ROUNDABOUT IMPROVEMENT DESIGN

THIS PROJECT TO BE LET TO CONTRACT
WITH FINANCIAL PROJECT ID(S):
453730-1-56-01





GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2026-27 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: N/A

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY2026-27 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

LIGHTING PLANS ENGINEER OF RECORD:

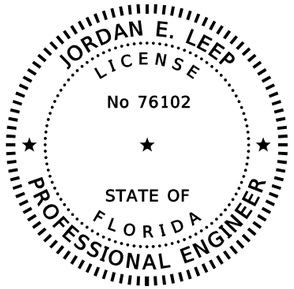
JORDAN E. LEEP, P.E.
P.E. LICENSE NUMBER 76102
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236
PHONE (941) 379-7600
CONTRACT NO.: CAD90
VENDOR NO.: F560885615202

FDOT PROJECT MANAGER:

JOEL HOBBS, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T1935	27	L-1

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



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236
JORDAN E. LEEP, P.E. NO. 76102

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

LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	SIGNATURE SHEET
L-3	POLE DATA AND LEGEND
L-4 - L-6	LIGHTING PLAN SHEETS
L-7	SERVICE POINT DETAILS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

JORDAN E. LEEP, P.E.
LICENSE NUMBER: 76102
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

SIGNATURE SHEET

SHEET NO.
L-2

Lighting Data Table

Pole No.	Easting	Northing	Baseline	Station	Offset	Foundation	Arm Length	Arm Rise	Mount Height	Luminaire Angle (deg)	Quantity Luminaires	Type	Make\Model	Lumens	IES Dist Type	CCT (K)	Tilt (deg)	Luminaire Watts	Luminaire Volts	Load Center No.	Circuit No.	Maint. Agency	Pay Item
1	433910.76	1127782.57	CL_CONSTGMD	210+22.50	52.25 RT	SHAFT	12	0	32	0	1	LED	VISIONAIRE / BLX-II-4	12818	III	AMBER	0	203	120	A	1	FPL	0715 61842
2	433806.93	1127780.18	CL_CONSTGMD	210+62.75	43.50 LT	SHAFT	12	0	32	0	1	LED	VISIONAIRE / BLX-II-4	12818	III	AMBER	0	203	120	A	1	FPL	0715 61842
3	433828.99	1127910.32	CL_CONSTGMD	211+75.00	24.75 RT	SHAFT	12	0	32	0	1	LED	VISIONAIRE / BLX-II-4	12818	III	AMBER	0	203	120	A	2	FPL	0715 61842
4	433611.37	1127848.96	CL_CONSTGMD	211+88.75	201.00 LT	SHAFT	12	0	32	0	1	LED	VISIONAIRE / BLX-II-4	12818	III	AMBER	0	203	120	A	1	FPL	0715 61842
5	433743.60	1127948.36	CL_CONSTGMD	212+38.00	44.25 LT	SHAFT	12	0	32	0	1	LED	VISIONAIRE / BLX-II-4	12818	III	AMBER	0	203	120	A	1	FPL	0715 61842
6	433826.76	1128007.12	CL_CONSTGMD	212+70.00	52.00 RT	SHAFT	12	0	32	0	1	LED	VISIONAIRE / BLX-II-4	12818	III	AMBER	0	203	120	A	2	FPL	0715 61842
7	433672.13	1127973.81	CL_CONSTGMD	212+81.25	105.25 LT	SHAFT	12	0	32	0	1	LED	VISIONAIRE / BLX-II-4	12818	III	AMBER	0	203	120	A	1	FPL	0715 61842
8	433705.78	1128031.74	CL_CONSTGMD	213+26.00	57.50 LT	SHAFT	12	0	32	0	1	LED	VISIONAIRE / BLX-II-4	12818	III	AMBER	0	203	120	A	2	FPL	0715 61842
9	433792.76	1128089.85	CL_CONSTGMD	213+61.25	41.00 RT	SPREAD FOOTING	12	0	32	0	1	LED	VISIONAIRE / BLX-II-4	12818	III	AMBER	0	203	120	A	2	FPL	0715 61842
10	433812.30	1128097.17	CL_CONSTGMD	213+63.75	61.75 RT	SHAFT	12	0	32	0	1	LED	VISIONAIRE / BLX-II-4	12818	III	AMBER	0	203	120	A	2	FPL	0715 61842
11	433959.95	1128140.04	CL_CONSTGMD	213+72.75	215.25 RT	SHAFT	12	0	32	0	1	LED	VISIONAIRE / BLX-II-4	12818	III	AMBER	0	203	120	A	2	FPL	0715 61842
12	433769.29	1128134.77	CL_CONSTGMD	214+11.25	27.75 RT	SHAFT	12	0	32	0	1	LED	VISIONAIRE / BLX-II-4	12818	III	AMBER	0	203	120	A	2	FPL	0715 61842
13	433695.35	1128255.54	CL_CONSTGMD	215+42.75	25.00 LT	SPREAD FOOTING	12	0	32	0	1	LED	VISIONAIRE / BLX-II-4	12818	III	AMBER	0	203	120	A	2	FPL	0715 61842
14	434172.39	1127246.47	CL_CONSTGMD	204+24.25	31.75 LT	SHAFT	12	0	32	0	1	LED	VISIONAIRE / BLX-II-4	12818	III	AMBER	0	203	120	EX-1	EX-1	FDOT	0715 61842
15	434135.47	1127288.80	CL_CONSTGMD	204+80.25	33.25 LT	SHAFT	12	0	32	0	1	LED	VISIONAIRE / BLX-II-4	12818	III	AMBER	0	203	120	EX-1	EX-1	FDOT	0715 61842

* SETBACK MEASURED FROM NEAREST EDGE OF PAVEMENT TO FACE OF POLE

WILDLIFE-SENSITIVE CONVENTIONAL LIGHTING

ARTERIALS / COLLECTORS CRITERIA

AVERAGE INITIAL INTENSITY:	1.0-1.5 H.F.C.
UNIFORMITY RATIO AVG. / MIN.:	4 : 1 OR LESS**
UNIFORMITY RATIO MAX. / MIN.:	10 : 1 OR LESS**
DESIGN WIND SPEED:	160 MPH

**ILLUMINATION UNIFORMITY RATIOS DO NOT APPLY TO V.F.C.

SIGNALIZED INTERSECTIONS (ROUNDABOUT) CRITERIA

AVERAGE INITIAL INTENSITY:	1.5-3.0 H.F.C. / 1.0 V.F.C
UNIFORMITY RATIO AVG. / MIN.:	4 : 1 OR LESS**
UNIFORMITY RATIO MAX. / MIN.:	10 : 1 OR LESS**
DESIGN WIND SPEED:	160 MPH

**ILLUMINATION UNIFORMITY RATIOS DO NOT APPLY TO V.F.C.

MIDBLOCK CROSSWALK CRITERIA

AVERAGE INITIAL INTENSITY:	1.0 V.F.C.
UNIFORMITY RATIO AVG. / MIN.:	N/A
UNIFORMITY RATIO MAX. / MIN.:	N/A
DESIGN WIND SPEED:	160 MPH

NOTES

1. PAY ITEM 0715-61-842 - INCLUDES POLES WITH A MOUNTING HEIGHT OF 32'.
2. RETURN ALL REMOVED LIGHT POLES TO TOWN OF LONGBOAT KEY.
3. ALL PROPOSED POLES MUST MATCH TOWN OF LONGBOAT KEY PREFERENCES PRIOR TO INSTALLATION.

LEGEND

MANUFACTURER:
VISIONAIRE LIGHTING BLX-II WILDLIFE CERTIFIED PHOTOMETRIC CURVE NO.: BLX-II_4_T3_128LD_5_TS_BHS.ies
WAS USED AS THE BASIS OF DESIGN, WIRED FOR 120V OPERATION. SEE POLE DATA TABLE FOR WATTAGE, MOUNTING HEIGHT, ARM LENGTH, AND FULL IES DESIGNATION. NEW LIGHT POLE AND LUMINAIRE WITH BACK SHIELD.

MANUFACTURER:
VISIONAIRE LIGHTING BLX-II WILDLIFE CERTIFIED PHOTOMETRIC CURVE NO.: BLX-II_4_T3_128LD_5_TS_FS.ies
WAS USED AS THE BASIS OF DESIGN, WIRED FOR 120V OPERATION. SEE POLE DATA TABLE FOR WATTAGE, MOUNTING HEIGHT, ARM LENGTH, AND FULL IES DESIGNATION. NEW LIGHT POLE AND LUMINAIRE WITH FRONT SHIELD.

PROPOSED 120V SERVICE POINT

PROPOSED LOAD CENTER

2" DIRECT BURIED CONDUIT

2" DIRECTIONAL DRILLED CONDUIT

PROPOSED LOCATION OF 13" X 24" LIGHTING PULL BOX

EXISTING LIGHT POLE AND LUMINAIRE TO BE REMOVED.

EXISTING LIGHT POLE AND LUMINAIRE TO REMAIN.

REMOVE EXIST. CONDUIT AND CONDUCTOR

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

ENGINEER OF RECORD

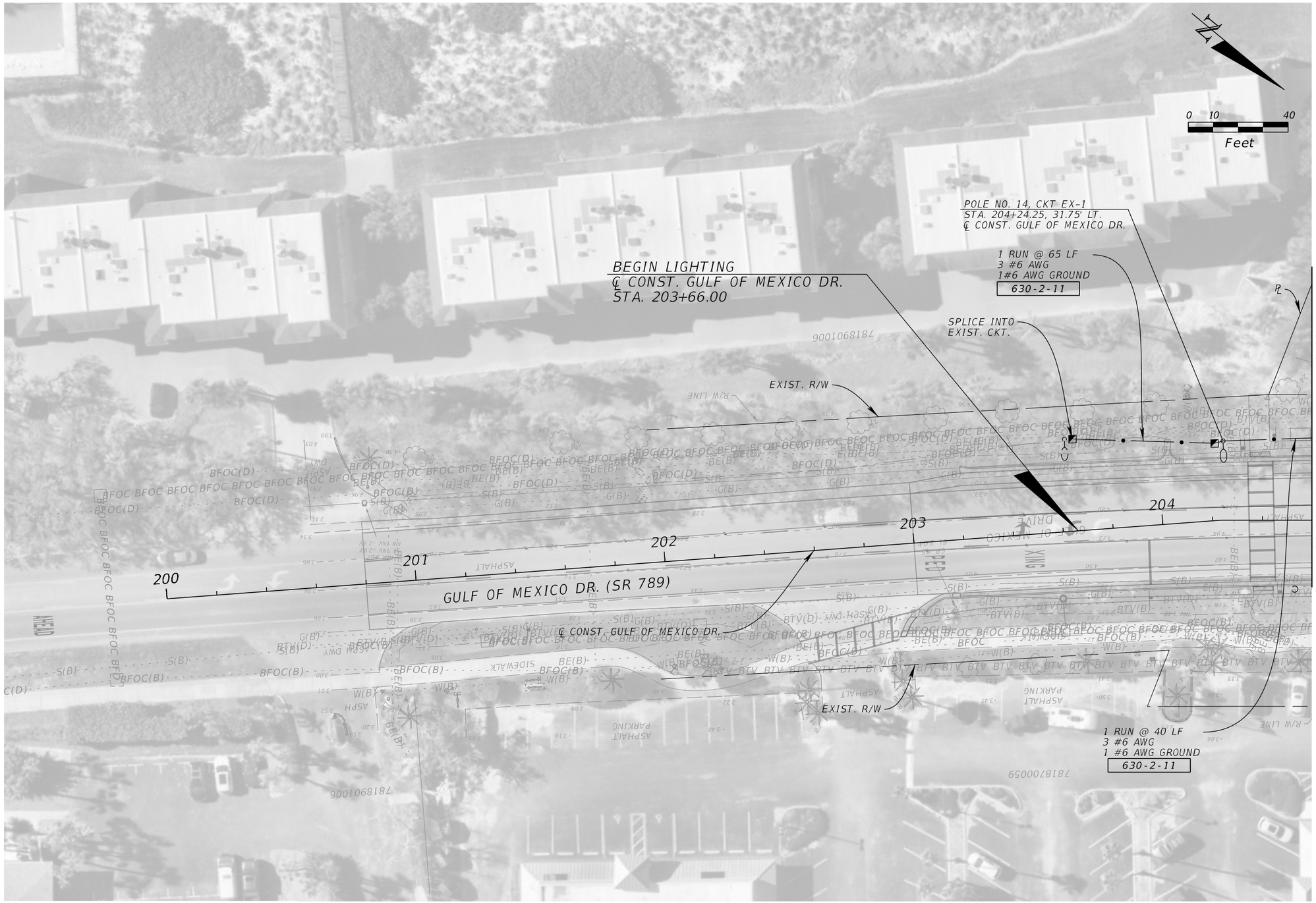
JORDAN E. LEEP, P.E.
LICENSE NUMBER: 76102
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

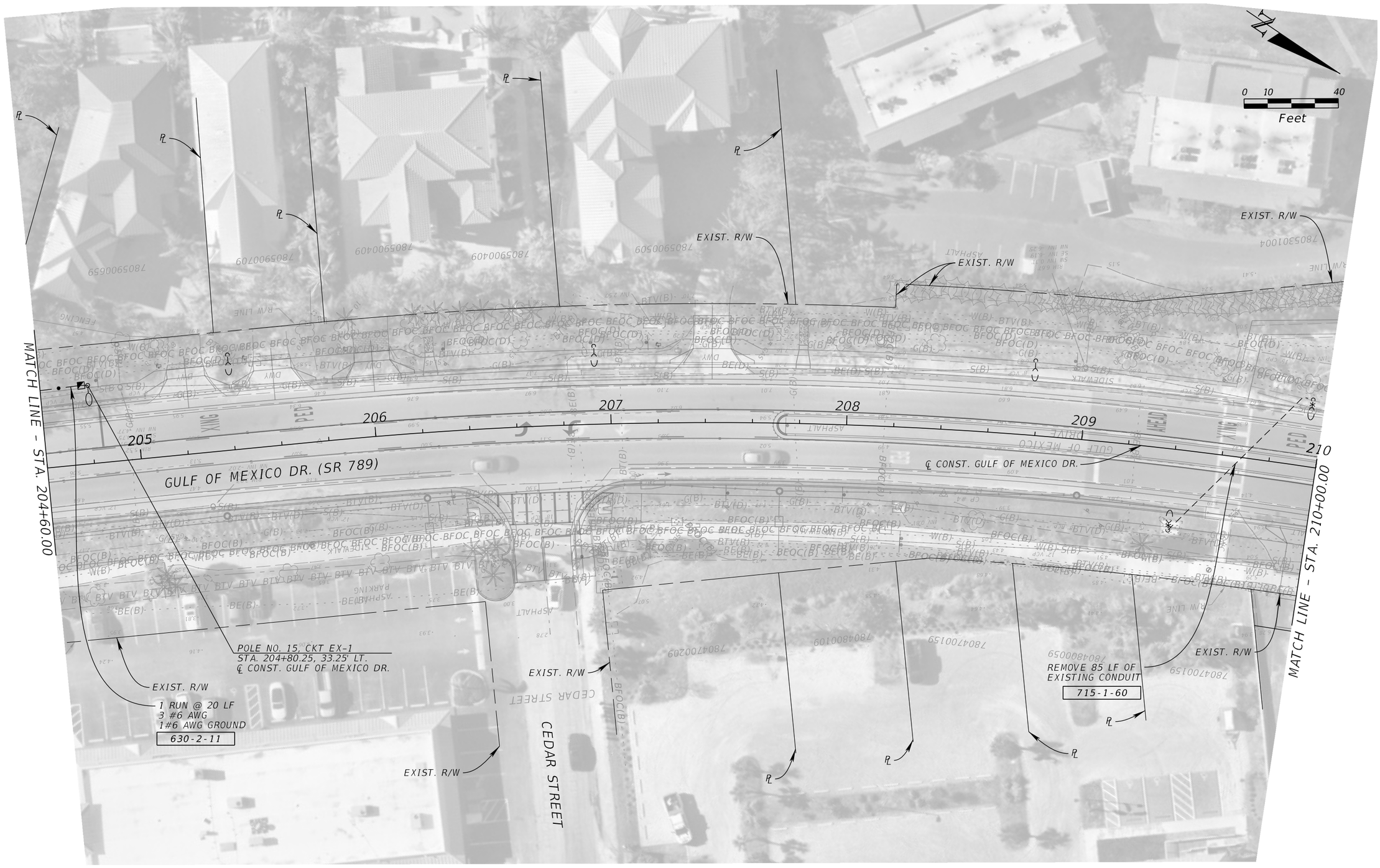
POLE DATA AND LEGEND

SHEET NO. L-3



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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN SHEET (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JORDAN E. LEEP, P.E. LICENSE NUMBER: 76102 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-4
					SR 789	MANATEE	453730-1-52-01		



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

JORDAN E. LEEP, P.E.
LICENSE NUMBER: 76102
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

LIGHTING PLAN SHEET (2)

SHEET NO.
L-5

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

c:\pw\kh1\d0576584\PLANLT01.dgn : PLAN 2 [SHEET]
Maria.Nava 4/8/2026 5:28:42 PM

MATCH LINE – SEE THIS SHEET

MATCH LINE – STA. 210+00.00

MATCH LINE – SEE THIS SHEET

N

0 10 40
Feet

EXIST. R/W

POLE NO. 02, CKT A-1
STA. 210+62.75, 43.50' LT.
℄ CONST. GULF OF MEXICO DR.

1 RUN @ 35 LF
2 #6 AWG
1 #6 AWG GROUND
630-2-11

2 RUNS @ 85 LF
2 #6 AWG
1 #6 AWG GROUND
W/ 1 SPARE
630-2-12

PROPOSED 120V
SERVICE POINT

EXIST. R/W

1 RUN @ 105 LF
2 #6 AWG
1 #6 AWG GROUND
630-2-11

LOAD CENTER A
STA. 211+38.50, 53.00 RT.
℄ CONST. GULF OF MEXICO DR.
120V, SINGLE PHASE
2 WIRE + GROUND
MAIN BREAKER 100 AMP
CKT. BREAKER 20 AMP
BEGIN CKT. A-1, A-2

POLE NO. 01, CKT A-1
STA. 210+22.50, 52.25' RT.
℄ CONST. GULF OF MEXICO DR.

2 RUNS @ 75 LF
2 #6 AWG
1 #6 AWG GROUND
W/ 1 SPARE
630-2-12

2 RUNS @ 110 LF
2 #6 AWG
1 #6 AWG GROUND
W/ 1 SPARE
630-2-12

POLE NO. 05, CKT A-1
STA. 212+38.00, 44.25' LT.
℄ CONST. GULF OF MEXICO DR.

1 RUN @ 180 LF
2 #6 AWG
1 #6 AWG GROUND
630-2-11

GULF OF MEXICO
DR. (SR 789)

2 RUNS @ 10 LF
2 #2 AWG
1 #6 AWG GROUND
ELECTRICAL SERVICE WIRE
630-2-11
639-2-1

1 RUN @ 50 LF
2 #6 AWG
1 #6 AWG GROUND
630-2-11

1 RUN @ 90 LF
2 #6 AWG
1 #6 AWG GROUND
630-2-11

POLE NO. 03, CKT A-2
STA. 211+75.00, 24.75' RT.
℄ CONST. GULF OF MEXICO DR.

POLE NO. 06, CKT A-2
STA. 212+70.00, 52.00' RT.
℄ CONST. GULF OF MEXICO DR.

1 RUN @ 145 LF
2 #6 AWG
1 #6 AWG GROUND
630-2-11

2 RUNS @ 50 LF
2 #6 AWG
1 #6 AWG GROUND
W/ 1 SPARE
630-2-12

POLE NO. 11, CKT A-2
STA. 213+72.75, 215.25' RT.
℄ CONST. GULF OF MEXICO DR.

EXIST. R/W

EXIST. R/W
POLE NO. 07, CKT A-1
STA. 212+81.25, 105.25' LT.
℄ CONST. GULF OF MEXICO DR.

℄ CONST. BROADWAY
STREET WEST

POLE NO. 08, CKT A-2
STA. 213+26.00, 57.50' LT.
℄ CONST. GULF OF MEXICO DR.

2 RUNS @ 55 LF
2 #6 AWG
1 #6 AWG GROUND
W/ 1 SPARE
630-2-12

1 RUN @ 55 LF
2 #6 AWG
1 #6 AWG GROUND
630-2-11

END LIGHTING
℄ CONST. GULF OF MEXICO DR.
STA. 215+42.75

POLE NO. 13, CKT A-2
STA. 215+42.75, 25.00' LT.
℄ CONST. GULF OF MEXICO DR.

1 RUN @ 90 LF
2 #6 AWG
1 #6 AWG GROUND
630-2-11

1 RUN @ 140 LF
2 #6 AWG
1 #6 AWG GROUND
630-2-11

EXIST. R/W

℄ CONST.
GULF OF MEXICO DR.

POLE NO. 12, CKT A-2
STA. 214+11.25, 27.75' RT.
℄ CONST. GULF OF MEXICO DR.

POLE NO. 09, CKT A-2
STA. 213+61.25, 41.00' RT.
℄ CONST. GULF OF MEXICO DR.

EXIST. R/W

1 RUN @ 25 LF
2 #6 AWG
1 #6 AWG GROUND
630-2-11

EXIST. R/W

POLE NO. 10, CKT A-2
STA. 213+63.75, 61.75' RT.
℄ CONST. GULF OF MEXICO DR.

EXIST. R/W

1 RUN @ 20 LF
2 #6 AWG
1 #6 AWG GROUND
630-2-11

2 RUNS @ 125 LF
2 #6 AWG
1 #6 AWG GROUND
W/ 1 SPARE
630-2-12

℄ CONST. BROADWAY
STREET EAST

EXIST. R/W

2 RUNS @ 55 LF
2 #6 AWG
1 #6 AWG GROUND
W/ 1 SPARE
630-2-12

TRIM TREES AS NECESSARY.

EXIST. R/W

POLE NO. 04, CKT. A-1
STA. 211+88.75, 201.00 LT.
℄ CONST. GULF OF MEXICO DR.

2 RUNS @ 60 LF
2 #6 AWG
1 #6 AWG GROUND
W/ 1 SPARE
630-2-12

EXIST. R/W

BROADWAY STREET

GULF OF MEXICO DRIVE

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN SHEET (3)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JORDAN E. LEEP, P.E. LICENSE NUMBER: 76102 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-6
					SR 789	MANATEE	453730-1-52-01		

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

c:\pw\kh1\d0576584\PLANLT01.dgn : PLAN 3 [SHEET]
Seth.Kline 4/9/2026 9:48:37 AM

PROPOSED LOAD CENTER A
120 V, SINGLE PHASE, 2 WIRE + GROUND
STA. 211+38.50, 53.00 RT. (CL CONST. GULF OF MEXICO DR.)

LOAD CENTER DESIGNATION	CKT.	MAIN & CIRCUIT BREAKER SIZES	# OF BRANCH CIRCUITS	TOTAL DEMAND LOAD (AMPS)	TOTAL DESIGN LOAD (AMPS)	# SERVICE ENTRANCE CONDUCTORS & CONDUIT AND BRANCH CIRCUIT SIZE
A		100 A, 1P	2	22.0	27.5	# 2 AWG
	1	20 A, 1P		8.5	10.6	# 6 AWG
	2	20 A, 1P		13.5	16.9	# 6 AWG

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
JORDAN E. LEEP, P.E.
LICENSE NUMBER: 76102
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 789	MANATEE	453730-1-52-01

SERVICE POINT DETAILS

SHEET NO.
L-7

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

Southwest Florida Water Management District
2379 Broad Street, Brooksville, Florida 34604-6899
(352) 796-7211 or 1-800-423-1476 (FL only)
SUNCOM 628-4150 TDD only 1-800-231-6103 (FL only)
On the Internet at: WaterMatters.org

An Equal Opportunity Employer

Bartow Service Office
170 Century Boulevard
Bartow, Florida 33830-7700
(863) 534-1448 or
1-800-492-7862 (FL only)

Sarasota Service Office
78 Sarasota Center Boulevard
Sarasota, Florida 34240-9770
(941) 377-3722 or
1-800-320-3503 (FL only)

Tampa Service Office
7601 Highway 301 North
Tampa, Florida 33637-6759
(813) 985-7481 or
1-800-836-0797 (FL only)

July 13, 2026

Florida Department of Transportation
Attn: Nicole Monies
801 North Broadway Avenue
Bartow, FL 33830

Subject: **Notice of Intended Agency Action - Approval**
ERP Individual Construction

Project Name:	SR 789 (Gulf of Mexico Drive) Roundabout
App ID/Permit No:	932879 / 43049014.001
County:	Manatee
Sec/Twp/Rge:	S22/T35S/R16E, S15/T35S/R16E

Dear Permittee(s):

The Southwest Florida Water Management District (District) has completed its review of the application for Environmental Resource Permit. Based upon a review of the information you have submitted, the District hereby gives notice of its intended approval of the application.

The File of Record associated with this application can be viewed at http://www18.swfwmd.state.fl.us/erp/erp/search/ERPSearch.aspx and is also available for inspection Monday through Friday, except for District holidays, from 8:00 a.m. through 5:00 p.m. at the District's Tampa Service Office, 7601 U.S. Highway 301 North, Tampa, Florida 33637.

If you have any questions or concerns regarding the application or any other information, please contact the Environmental Resource Permit Bureau in the Tampa Service Office.

Sincerely,

David Kramer, P.E.
Bureau Chief
Environmental Resource Permit Bureau
Regulation Division

cc: Florida Fish and Wildlife Conservation Commission
Ronnie VanFleet
Brandon Nichols
Emily Saidi
Gary Nadeau, P.E., Kimley-Horn and Associates, Inc.

Southwest Florida Water Management District
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Sarasota Service Office
78 Sarasota Center Boulevard
Sarasota, Florida 34240-9770
(941) 377-3722 or
1-800-320-3503 (FL only)

Tampa Service Office
7601 Highway 301 North
Tampa, Florida 33637-6759
(813) 985-7481 or
1-800-836-0797 (FL only)

July 13, 2026

Florida Department of Transportation
Attn: Nicole Monies
801 North Broadway Avenue
Bartow, FL 33830

Subject: **Notice of Agency Action - Approval**
ERP Individual Construction

Project Name:	SR 789 (Gulf of Mexico Drive) Roundabout
App ID/Permit No:	932879 / 43049014.001
County:	Manatee
Sec/Twp/Rge:	S22/T35S/R16E, S15/T35S/R16E

Dear Permittee(s):

The Southwest Florida Water Management District (District) is in receipt of your application for the Environmental Resource Permit. Based upon a review of the information you submitted, the application is approved.

Please refer to the attached Notice of Rights to determine any legal rights you may have concerning the District's agency action on the permit application described in this letter.

If approved construction plans are part of the permit, construction must be in accordance with these plans. These drawings are available for viewing or downloading through the District's Application and Permit Search Tools located at www.WaterMatters.org/permits.

The District's action in this matter only becomes closed to future legal challenges from members of the public if such persons have been properly notified of the District's action and no person objects to the District's action within the prescribed period of time following the notification. The District does not publish notices of agency action. If you wish to limit the time within which a person who does not receive actual written notice from the District may request an administrative hearing regarding this action, you are strongly encouraged to publish, at your own expense, a notice of agency action in the legal advertisement section of a newspaper of general circulation in the county or counties where the activity will occur. Publishing notice of agency action will close the window for filing a petition for hearing. Legal requirements and instructions for publishing notices of agency action, as well as a noticing form that can be used, are available from the District's website at www.WaterMatters.org/permits/noticing. If you publish notice of agency action, a copy of the affidavit of publication provided by the newspaper should be sent to the District's Tampa Service Office for retention in this permit's File of Record.

If you have any questions or concerns regarding your permit or any other information, please contact the Environmental Resource Permit Bureau in the Tampa Service Office.

Sincerely,

David Kramer, P.E.
Bureau Chief
Environmental Resource Permit Bureau
Regulation Division

Enclosures: Approved Permit w/Conditions Attached
As-Built Certification and Request for Conversion to Operation Phase
Notice of Authorization to Commence Construction
Notice of Rights

cc: Florida Fish and Wildlife Conservation Commission
Ronnie VanFleet
Brandon Nichols
Emily Saidi
Gary Nadeau, P.E., Kimley-Horn and Associates, Inc.

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE

INDIVIDUAL CONSTRUCTION
PERMIT NO. 43049014.001

EXPIRATION DATE: **July 13, 2031** **PERMIT ISSUE DATE:** **July 13, 2026**

This permit is issued under the provisions of Chapter 373, Florida Statutes, (F.S.), and the Rules contained in Chapter 62-330, Florida Administrative Code, (F.A.C.). The permit authorizes the Permittee to proceed with the construction of a surface water management system in accordance with the information outlined herein and shown by the application, approved drawings, plans, specifications, and other documents, attached hereto and kept on file at the Southwest Florida Water Management District (District). All construction, operation and maintenance of the surface water management system authorized by this permit shall occur in compliance with Florida Statutes and Administrative Code and the conditions of this permit.

PROJECT NAME:	SR 789 (Gulf of Mexico Drive) Roundabout
GRANTED TO:	Florida Department of Transportation Attn: Nicole Monies 801 North Broadway Avenue Bartow, FL 33830
OTHER PERMITTEES:	N/A

ABSTRACT: This permit authorization is for the conversion of a traditional intersection to a roundabout configuration, resurfacing of an existing roadway, shoulder widening and paving, the reconfiguration of existing ditches, and other safety related improvements along State Road 789 (Gulf of Mexico Drive), between Cedar Street and Firehouse Court, in Manatee County. Formal water quality treatment and peak rate attenuation are not required for these activities per Rule 62-330.051(4), F.A.C. This authorization includes and addresses wetland and surface water impacts.

OP. & MAIN. ENTITY:	Florida Department of Transportation
OTHER OP. & MAIN. ENTITY:	N/A
COUNTY:	Manatee
SEC/TWP/RGE:	S22/T35S/R16E, S15/T35S/R16E
TOTAL ACRES OWNED OR UNDER CONTROL:	7.33
PROJECT SIZE:	7.33 Acres
LAND USE:	Government
DATE APPLICATION FILED:	January 15, 2026
AMENDED DATE:	N/A

I. Water Quantity/Quality

Water Quantity/Quality Comment: Formal water quality treatment and peak rate attenuation are not required for the proposed roadway safety improvement activities per Rule 62-330.051(4), F.A.C. The plans and calculations reflect the North American Vertical Datum of 1988 (NAVD 88).
A mixing zone is not required.
A variance is not required.

II. 100-Year Floodplain

Encroachment (Acre-Feet of fill)	Compensation (Acre-Feet of excavation)	Compensation Type	Encroachment Result* (feet)
0.00	0.00	No Encroachment	N/A

Floodplain Comment: The onsite floodplain is due to tidal surge, for which floodplain compensation is not required. The project proposes no fill placement within a known 100-year riverine floodplain or depression storage areas associated with 100-year riverine floodplain.

*Depth of change in flood stage (level) over existing receiving water stage resulting from floodplain encroachment caused by a project that claims Minimal Impact type of compensation.

III. Environmental Considerations

Wetland/Other Surface Water Information

Wetland/Other Surface Water Name	Total Acres	Not Impacted Acres	Permanent Impacts		Temporary Impacts	
			Acres	Functional Loss*	Acres	Functional Loss*
WL-1	0.17	0.08	0.09	0.07	0.00	0.00
OSW-1a	0.02	0.00	0.02	0.00	0.00	0.00
OSW-1b	0.07	0.00	0.07	0.00	0.00	0.00
OSW-1c	0.01	0.01	0.00	0.00	0.00	0.00
OSW-1d	0.04	0.00	0.04	0.00	0.00	0.00
OSW-1e	0.04	0.00	0.04	0.00	0.00	0.00
OSW-1f	0.08	0.00	0.08	0.00	0.00	0.00
OSW-1g	0.11	0.05	0.06	0.00	0.00	0.00
OSW-2a	0.01	0.00	0.01	0.00	0.00	0.00
OSW-2b	0.09	0.05	0.04	0.00	0.00	0.00
OSW-2c	0.01	0.01	0.00	0.00	0.00	0.00
OSW-2d	0.16	0.11	0.05	0.00	0.00	0.00
OSW-2e	0.51	0.29	0.22	0.00	0.00	0.00
Total:	**1.32**	**0.60**	**0.72**	**0.07**	**0.00**	**0.00**

*** For impacts that do not require mitigation, their functional loss is not included.**

Wetland/Other Surface Water Comments:
There is 0.17 acre of wetland (WL-1: FLUCCS 612) located within the project area for this permit. Permanent filling impacts to 0.09 acre of wetlands (WL-1: FLUCCS 612) will occur for activities associated with this drainage improvement project. Permanent filling impacts to 0.09 acre of qualifying wetlands were evaluated using the Uniform Mitigation Assessment Method (UMAM) as required pursuant to Chapter 62-345, F.A.C. The results of the UMAM analysis indicate a functional loss of 0.07 units due to the permanent impacts proposed. There are 1.10 acres of other surface waters, consisting of tidal other surface waters drainage ditches (OSWs 1a, 1b, 1c, 1d, 1e, 1f, 2a, 2b, 2c, 2d and 2e: FLUCCS 510), located within the project area. Permanent dredging and filling impacts to 0.63 acre of the project surface waters will occur for activities associated with this drainage improvement project.

Mitigation Information

Name	Creation		Enhancement		Preservation		Restoration		Enhancement +Preservation		Other	
	Acres	Functional Gain	Acres	Functional Gain	Acres	Functional Gain	Acres	Functional Gain	Acres	Functional Gain	Acres	Functional Gain
Mangrove Point Mitigation Bank	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
Total:	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.07**

Mitigation Comments:
Wetland mitigation for 0.09 acre of permanent filling impacts will be provided by the purchase of 0.07 saltwater forested credits from the Mangrove Point Mitigation Bank, Permit No. 43035355.002. The results of the UMAM analysis indicate a functional gain of 0.07 units. The UMAM analysis determined that the mitigation provided by the permit adequately offsets the project's proposed impacts to functional wetland habitat. Wetland mitigation will not be required for permanent dredging and filling impacts to 0.63 acre of wetlands/surface waters pursuant to Subsection 10.2.2 of the Applicant’s Handbook Volume I. Under this Section, wetland mitigation is not required for impacts that have been determined to be de minimis to fish, wildlife and listed species.

Specific Conditions

1. If the ownership of the project area covered by the subject permit is divided, with someone other than the Permittee becoming the owner of part of the project area, this permit may be terminated, unless the terms of the permit are modified by the District or the permit is transferred pursuant to Rule 40D-1.6105, F.A.C. In such situations, each land owner shall obtain a permit (which may be a modification of this permit) for the land owned by that person. This condition shall not apply to the division and sale of lots or units in residential subdivisions or condominiums.
2. The Permittee shall retain the design professional registered or licensed in Florida, to conduct on-site observations of construction and assist with the as-built certification requirements of this project. The Permittee shall inform the District in writing of the name, address and phone number of the design professional so employed. This information shall be submitted prior to construction.
3. The following boundaries, as shown on the approved construction drawings, shall be clearly delineated on the site prior to initial clearing or grading activities:

   a. wetland and surface water areas

   b. limits of approved wetland and surface water impacts

   The delineation shall endure throughout the construction period and be readily discernible to construction and District personnel.
4. This permit also constitutes a grant of water quality certification under Section 401 of the Clean Water Act, 33 U.S.C. Section 1341. Pursuant to Rule 62-330.062, F.A.C. issuance of the individual or conceptual approval permit under this chapter shall constitute certification of compliance with water quality standards.
5. If limestone bedrock is encountered during construction of the stormwater management system, the District must be notified and construction in the affected area shall cease.
6. The Permittee shall notify the District of any sinkhole development in the stormwater management system within 48 hours of discovery and must submit a detailed sinkhole evaluation and repair plan for approval by the District within 30 days of discovery.
7. The Permitted Plan Set for this project includes the set received by the District on February 19, 2026.
8. If prehistoric or historic artifacts such as pottery or ceramics, stone or shell tools or metal implements, or any other physical remains that could be associated with Native American cultures or early colonial or American settlement are encountered at any time within the project area, the permittee shall cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The permittee shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section at (850) 245-6333, as well as the District. Project activities in the immediate vicinity shall not resume without authorization from the District after coordination with the Division of Historical Resources. In the event that unmarked human remains are encountered during permitted activities, all work that may disturb the unmarked human remains shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.
9. District staff must be notified in advance of any proposed construction dewatering. If the dewatering activity is likely to result in offsite discharge or sediment transport into wetlands or surface waters, a written dewatering plan must either have been submitted and approved with the permit application or submitted to the District as a permit prior to the dewatering event as a permit modification. A water use permit may be required prior to any use exceeding the thresholds in Chapter 40D-2, F.A.C.
10. Off-site discharges during construction and development shall be made only through the facilities authorized by this permit. Water discharged from the project shall be through structures having a mechanism suitable for regulating upstream stages. Stages may be subject to operating schedules satisfactory to the District.
11. The permittee shall complete construction of all aspects of the stormwater management system, including wetland compensation (grading, mulching, planting), water quality treatment features, and discharge control facilities prior to beneficial occupancy or use of the development being served by this system.

12. The following shall be properly abandoned and/or removed in accordance with the applicable regulations:

    a. Any existing wells in the path of construction shall be properly plugged and abandoned by a licensed well contractor.

    b. Any existing septic tanks on site shall be abandoned at the beginning of construction.

    c. Any existing fuel storage tanks and fuel pumps shall be removed at the beginning of construction.

13. All stormwater management systems shall be operated to conserve water in order to maintain environmental quality and resource protection; to increase the efficiency of transport, application and use; to decrease waste; to minimize unnatural runoff from the property and to minimize dewatering of offsite property.

14. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the occupation of the site or operation of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to a local government or other responsible entity.

15. This permit is valid only for the specific processes, operations and designs indicated on the approved drawings or exhibits submitted in support of the permit application. Any substantial deviation from the approved drawings, exhibits, specifications or permit conditions, including construction within the total land area but outside the approved project area(s), may constitute grounds for revocation or enforcement action by the District, unless a modification has been applied for and approved. Examples of substantial deviations include excavation of ponds, ditches or sump areas deeper than shown on the approved plans.

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

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

18. The Permittee shall not begin construction within the project area until the Mangrove Mitigation Bank has received a permit modification authorizing the withdrawal of 0.07 saltwater forested credits from mitigation bank permit number 43035355.002, and a copy of this modification is provided to the District, or this permit has been modified to provide an equivalent level of mitigation to be completed by the Permittee. Initiation of construction prior to issuance of the required permit modification shall be a violation of this permit.

19. Sea Turtles - Prior to Any Construction

    a. A preconstruction conference shall be held prior to the electrical rough-in for installation of exterior lights, and include the electrician or electrical contractor, the owner or authorized agent and staff representatives of the Department and the FWC. The Permittee shall contact the FWC at MarineTurtle@MyFWC.com for scheduling the conference, providing at least five (5) business days advance notice prior to the conference. A copy of the permitted exterior lighting plan shall be made available on site for the meeting and shall remain on site for consultation during the electrical installation. Requests to modify the permitted exterior lighting plan will not be approved during or after the preconstruction meeting except as specified in the special conditions of this permit. Provisions shall be made for FWC staff to attend virtually or by phone. If the electrician or electrical contractor responsible for the installation of exterior lights is not available for the initial preconstruction conference, a construction conference shall be held at the site among the parties identified above prior to commencement of construction for any exterior lighting authorized by this permit.

    Sea Turtles - Construction Activities

b. No construction, operation, transportation, or storage of equipment or materials is authorized from May 1 through October 31 on any part of the sandy beach or on or seaward of the frontal dune.

c. All activity shall be confined to daylight hours. No temporary lighting of the construction area is authorized at any time during the marine turtle nesting season.

Sea Turtles - Operation and Maintenance Activities

d. All permanent exterior lighting shall be installed and maintained as depicted on the most recent FWC stamped, approved lighting drawings, tables and cut sheets. No substitutions, alterations, or modifications to the approved lighting plan are allowed. Additional exterior lighting (permanent or temporary, including, but not limited to, construction, special event lighting, etc.) is prohibited on any structure or in the landscape in the project area unless otherwise authorized in an approved lighting plan. If during construction, an approved fixture or lamp needs to be changed to a different type, manufacturer or catalog number for any reason, or if the location of any approved fixture needs to be changed, it shall be submitted for review and approval by the Department and the FWC prior to installation. There may be a decrease in the wattage of an approved lamp and/or a decrease in the total number of each approved fixture without submitting a modified lighting plan for review and approval.

e. The lighting plan is only approved with the manufacturer 6” drop down beach side shields installed to reduce visibility of light from the beach. Since the lights are proposed at a mounting height greater than FWC recommends, additional shielding may be required if any light is visible from the beach after installation.

f. The Permittee shall arrange for a site inspection by the FWC representatives within 30 days of the completion of all construction activities, including the installation of all exterior lights, by sending notification to MarineTurtle@MyFWC.com. The Permittee agrees to allow access to the site for the FWC representatives to conduct day and nighttime exterior light site inspections upon 48-hour notice of the intent to inspect. If any of the lights become visible from the beach at any time during the duration of this permit, they may be required to be modified.

g. Within thirty (30) business days after FWC staff have verified to the Department and the Permittee that lighting is installed as indicated on approved plans and is not visible from the beach, the Permittee shall install marine turtle lighting educational sign(s) at each permitted major coastal structure with an approved lighting plan for exterior lights. A copy of the Department and the FWC approved sign can be obtained at https://myfwc.com/media/18008/seaturtle_lightingsign.jpg. The sign(s) must be a minimum size of 11 inches by 14 inches and made of durable weatherproof material. The sign(s) must be located near or on each permitted major structure, in centralized areas of high foot traffic visible to most occupants or guests, and should be replaced if they become faded, damaged or outdated.

h. If any of the lights become visible from the beach, they may be required to be modified or removed such that they are no longer visible from the beach.

GENERAL CONDITIONS

1. The general conditions attached hereto as Exhibit "A” are hereby incorporated into this permit by reference and the Permittee shall comply with them.

David Kramer, P.E.

Authorized Signature

EXHIBIT A

GENERAL CONDITIONS:

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

a. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, F.A.C., or the permit may be revoked and the permittee may be subject to enforcement action.

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

c. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the *State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation, July 2013)*, and the *Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Division of Environmental Assessment and Restoration, Tallahassee, Florida, October 2018)*, which are both incorporated by reference in subparagraph 62-330.350(1)(c), F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.

d. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice,"[effective date], incorporated by reference herein (<http://www.flrules.org/Gateway/reference.asp?No=Ref-02505>), indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5),F.A.C. However, for activities involving more than one acre of construction that also require a NPDES stormwater construction general permit, submittal of the Notice of Intent to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities, DEP Form 62-621.300(4)(b), shall also serve as notice of commencement of construction under this chapter and, in such a case, submittal of Form 62-330.350(1) is not required.

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

f. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:

1. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex - "Construction Completion and Inspection Certification for Activities Associated with a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or

2. For all other activities - As-Built drawings with "As-Built Certification and Request for Conversion to Operation Phase" [Form 62-330.310(1)].

3. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.

g. If the final operation and maintenance entity is a third party:

1. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as- built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.4 of Volume I) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.

2. Within 30 days of submittal of the as- built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation and Maintenance Entity" [Form 62-330.310 (2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

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

i. This permit does not:

1. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;

2. Convey to the permittee or create in the permittee any interest in real property;

3. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or

4. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.

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

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

l. The permittee shall notify the Agency in writing:

1. Immediately if any previously submitted information is discovered to be inaccurate; and

2. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.

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

n. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early

colonial or American settlement are encountered at any time within the project site area, work involving subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification shall be provided in accordance with Section 872.05, F.S. (2012).

o. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.

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

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

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

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

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

NOTICE OF
AUTHORIZATION
TO COMMENCE CONSTRUCTION

SR 789 (Gulf of Mexico Drive) Roundabout
PROJECT NAME

Government
PROJECT TYPE

Manatee
COUNTY

S22/T35S/R16E, S15/T35S/R16E
SEC(S)/TWP(S)/RGE(S)

Florida Department of Transportation
PERMITTEE

APPLICATION ID/PERMIT NO: 932879 / 43049014.001
DATE ISSUED: July 13, 2026

David Kramer, P.E.
Issuing Authority

THIS NOTICE SHOULD BE CONSPICUOUSLY DISPLAYED AT THE SITE OF THE WORK

Notice of Rights

ADMINISTRATIVE HEARING

1. You or any person whose substantial interests are or may be affected by the District's intended or proposed action may request an administrative hearing on that action by filing a written petition in accordance with Sections 120.569 and 120.57, Florida Statutes (F.S.), Uniform Rules of Procedure Chapter 28-106, Florida Administrative Code (F.A.C.) and District Rule 40D-1.1010, F.A.C. Unless otherwise provided by law, a petition for administrative hearing must be filed with (received by) the District within 21 days of receipt of written notice of agency action. "Written notice" means either actual written notice, or newspaper publication of notice, that the District has taken or intends to take agency action. "Receipt of written notice" is deemed to be the fifth day after the date on which actual notice is deposited in the United States mail, if notice is mailed to you, or the date that actual notice is issued, if sent to you by electronic mail or delivered to you, or the date that notice is published in a newspaper, for those persons to whom the District does not provide actual notice.

2. Pursuant to Subsection 373.427(2)(c), F.S., for notices of intended or proposed agency action on a consolidated application for an environmental resource permit and use of state-owned submerged lands concurrently reviewed by the District, a petition for administrative hearing must be filed with (received by) the District within 14 days of receipt of written notice.

3. Pursuant to Rule 62-532.430, F.A.C., for notices of intent to deny a well construction permit, a petition for administrative hearing must be filed with (received by) the District within 30 days of receipt of written notice of intent to deny.

4. Any person who receives written notice of an agency decision and who fails to file a written request for a hearing within 21 days of receipt or other period as required by law waives the right to request a hearing on such matters.

5. Mediation pursuant to Section 120.573, F.S., to settle an administrative dispute regarding District intended or proposed action is not available prior to the filing of a petition for hearing.

6. A request or petition for administrative hearing must comply with the requirements set forth in Chapter 28-106, F.A.C. A request or petition for a hearing must: (1) explain how the substantial interests of each person requesting the hearing will be affected by the District's intended action or proposed action, (2) state all material facts disputed by the person requesting the hearing or state that there are no material facts in dispute, and (3) otherwise comply with Rules 28-106.201 and 28-106.301, F.A.C. Chapter 28-106, F.A.C. can be viewed at www.flrules.org or at the District's website at www.WaterMatters.org/permits/rules.

7. A petition for administrative hearing is deemed filed upon receipt of the complete petition by the District Agency Clerk at the District's Tampa Service Office during normal business hours, which are 8:00 a.m. to 5:00 p.m., Monday through Friday, excluding District holidays. Filings with the District Agency Clerk may be made by mail, hand-delivery or facsimile transfer (fax). The District does not accept petitions for administrative hearing by electronic mail. Mailed filings must be addressed to, and hand-delivered filings must be delivered to, the Agency Clerk, Southwest Florida Water Management District, 7601 Highway 301 North,Tampa,FL 33637-6759. Faxed filings must be transmitted to the District Agency Clerk at (813) 367-9788. Any petition not received during normal business hours shall be filed as of 8:00 a.m. on the next business day. The District's acceptance of faxed petitions for filing is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation, available for viewing at www.WaterMatters.org/about.

JUDICIAL REVIEW

1. Pursuant to Sections 120.60(3) and 120.68, F.S., a party who is adversely affected by District action may seek judicial review of the District's action. Judicial review shall be sought in the Fifth District Court of Appeal or in the appellate district where a party resides or as otherwise provided by law.

2. All proceedings shall be instituted by filing an original notice of appeal with the District Agency Clerk within 30 days after the rendition of the order being appealed, and a copy of the notice of appeal, accompanied by any filing fees prescribed by law, with the clerk of the court, in accordance with Rules 9. 110 and 9.190 of the Florida Rules of Appellate Procedure (Fla. R. App. P.). Pursuant to Fla. R. App. P. 9.020(h), an order is rendered when a signed written order is filed with the clerk of the lower tribunal.