

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

CONTRACT PLANS COMPONENTS

ROADWAY
SIGNING AND PAVEMENT MARKING
LIGHTING

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLANS

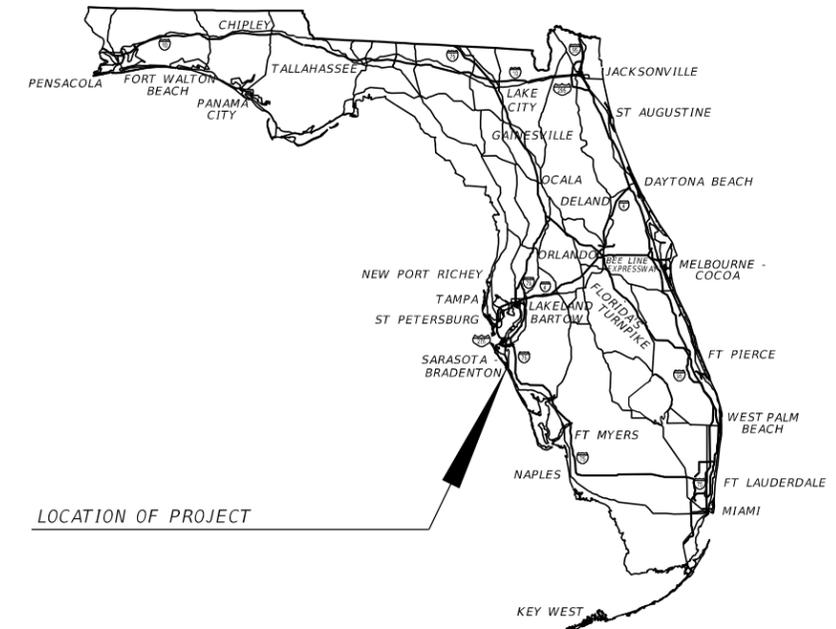
FINANCIAL PROJECT ID 453730-1-52-01, 453730-1-52-02

(FEDERAL FUNDS)

MANATEE COUNTY (13080)

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

MODERN ROUNDABOUT IMPROVEMENT DESIGN



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

PROJECT LOCATION URL: <https://tinyurl.com/475kffht>

PROJECT LIMITS: BEGIN MP 3.980 - END MP 4.405

EXCEPTIONS: NONE

BRIDGE LIMITS: NONE

RAILROAD CROSSING: NONE

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>

**ROADWAY PLANS
ENGINEER OF RECORD:**

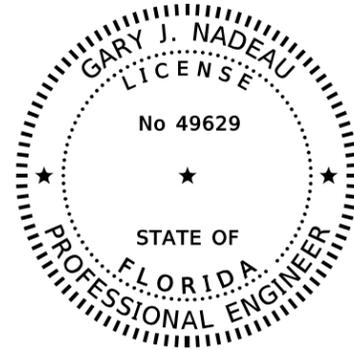
GARY J. NADEAU, P.E. NO.: 49629
KIMLEY-HORN AND ASSOCIATES, INC.
1800 2ND STREET, SUITE 900
SARASOTA, FL 34236
PHONE (941) 379-7600
CONTRACT NO.: CAD90
VENDOR NO.: F560885615202

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.



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

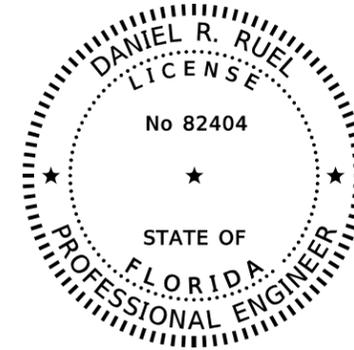
THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

ROADWAY PLANS

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1	KEY SHEET
2	SIGNATURE SHEET
3	DRAINAGE MAP - EXISTING
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BIM FILES IDENTIFIED AS PLANS TO SUPPORT EARTHWORK		
FILE NAME	FILE DESCRIPTION	SHA256 Encryption Code
45373015201\Roadway\MODLRD04.dgn	Earthwork Volumes File	F086AFDD25BC573100DEB4FC4CC068A66CE41D4F77F88D21D56E1471C3A92150
45373015201\Roadway\MODLRD02.dgn	3D Modeling File (Existing/Proposed)	882CCE93128AE26A9D559F4325316051B7C698FBA1DF4ED2364E1F4B6D8D8219
https://emn178.github.io/online-tools/sha256_checksum.html		



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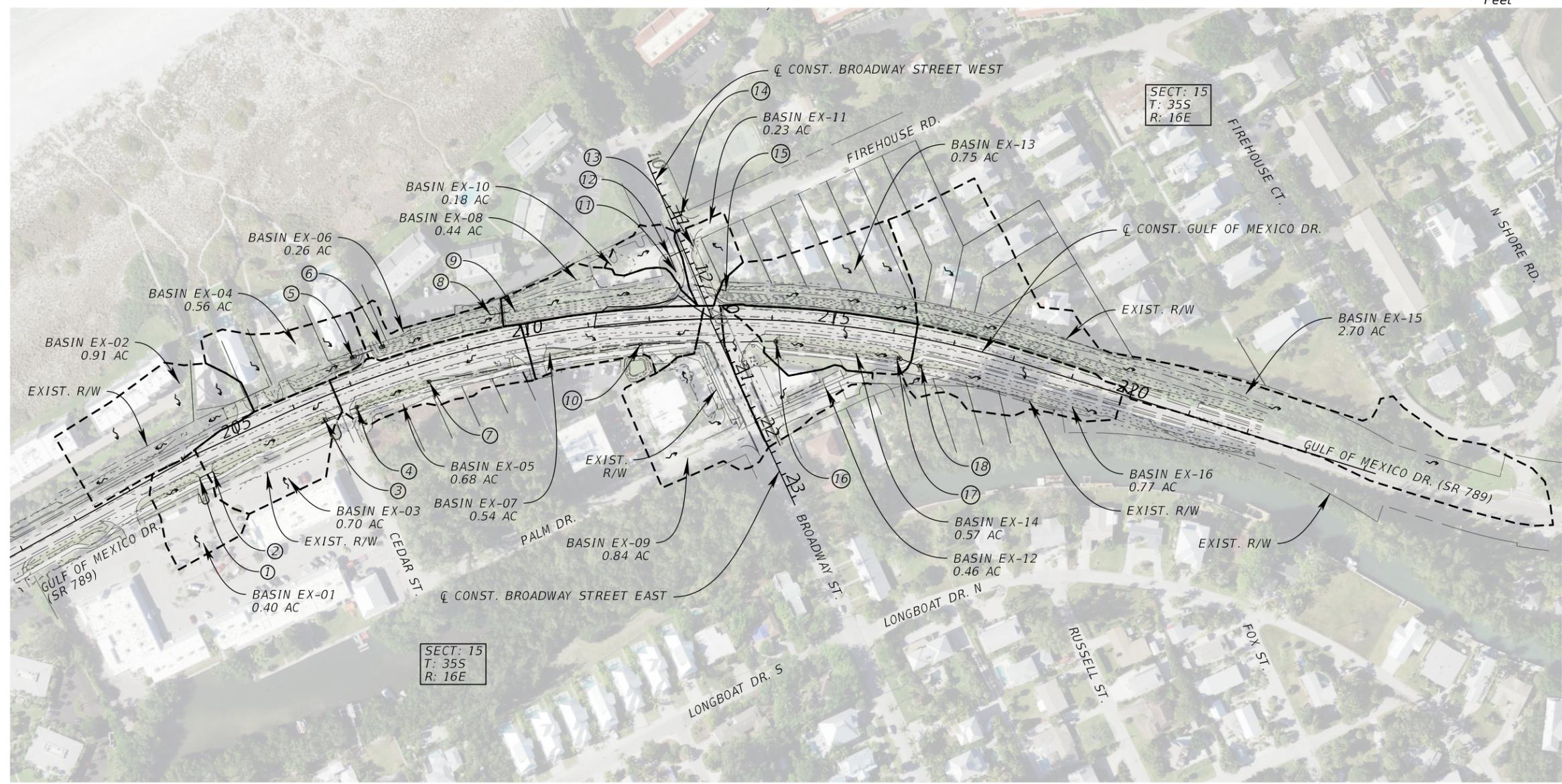
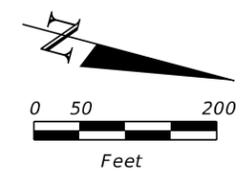
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637
DANIEL R. RUEL, P.E. NO. 82404

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

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 2
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	
						SR 789	MANATEE	453730-1-52-01	

SIGNATURE SHEET



LEGEND

- EXIST. BASIN BOUNDARY
- ## EXIST. STR. #

PLANS REFERENCE THE NAVD 1988 VERTICAL DATUM

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	
							SR 789	MANATEE	453730-1-52-01	3

DRAINAGE MAP (1) - EXISTING

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

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

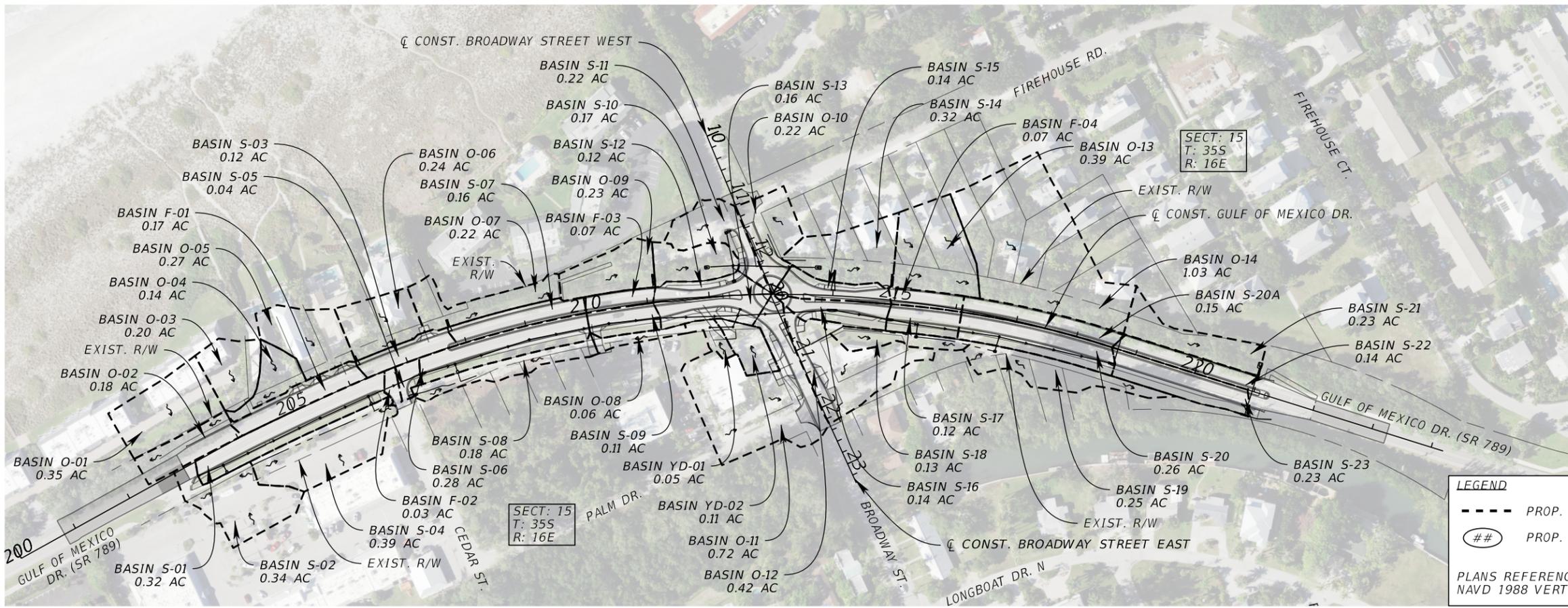
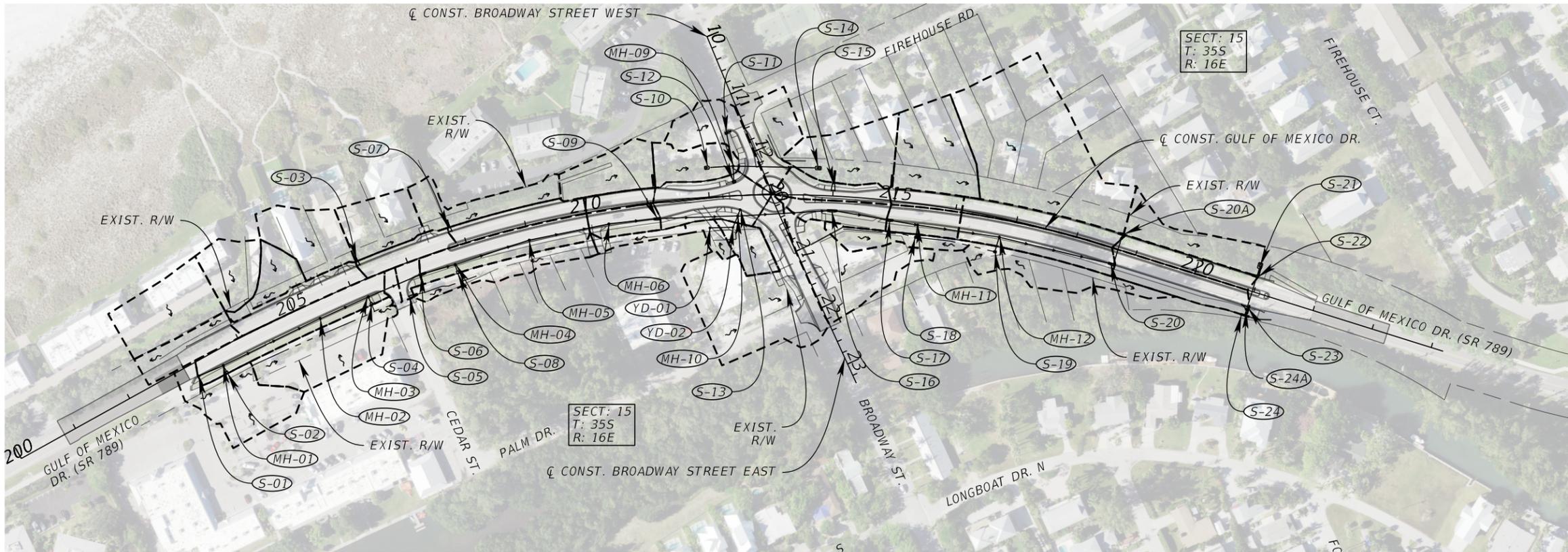
⑮ MES
S FL -0.20 (18" RCP)
TO BE REMOVED

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

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			EXISTING 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		4
						SR 789	MANATEE	453730-1-52-01		



LEGEND

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

PLANS REFERENCE THE NAVD 1988 VERTICAL DATUM

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 5
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	
								SR 789	

DRAINAGE MAP (2) - PROPOSED

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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	
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 STANDARD 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	36 inch	-1.35	430-030	CONST. W/ S-24A
S-24A	CL_CONSTGMD	220+97.00	39.71	FLAP GATE	36 inch	-1.30		MARINE-GRADE, CONST. W/ S-24

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 6
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	
						SR 789	MANATEE	453730-1-52-01	

**DRAINAGE STRUCTURE
INFORMATION SHEET (1)**

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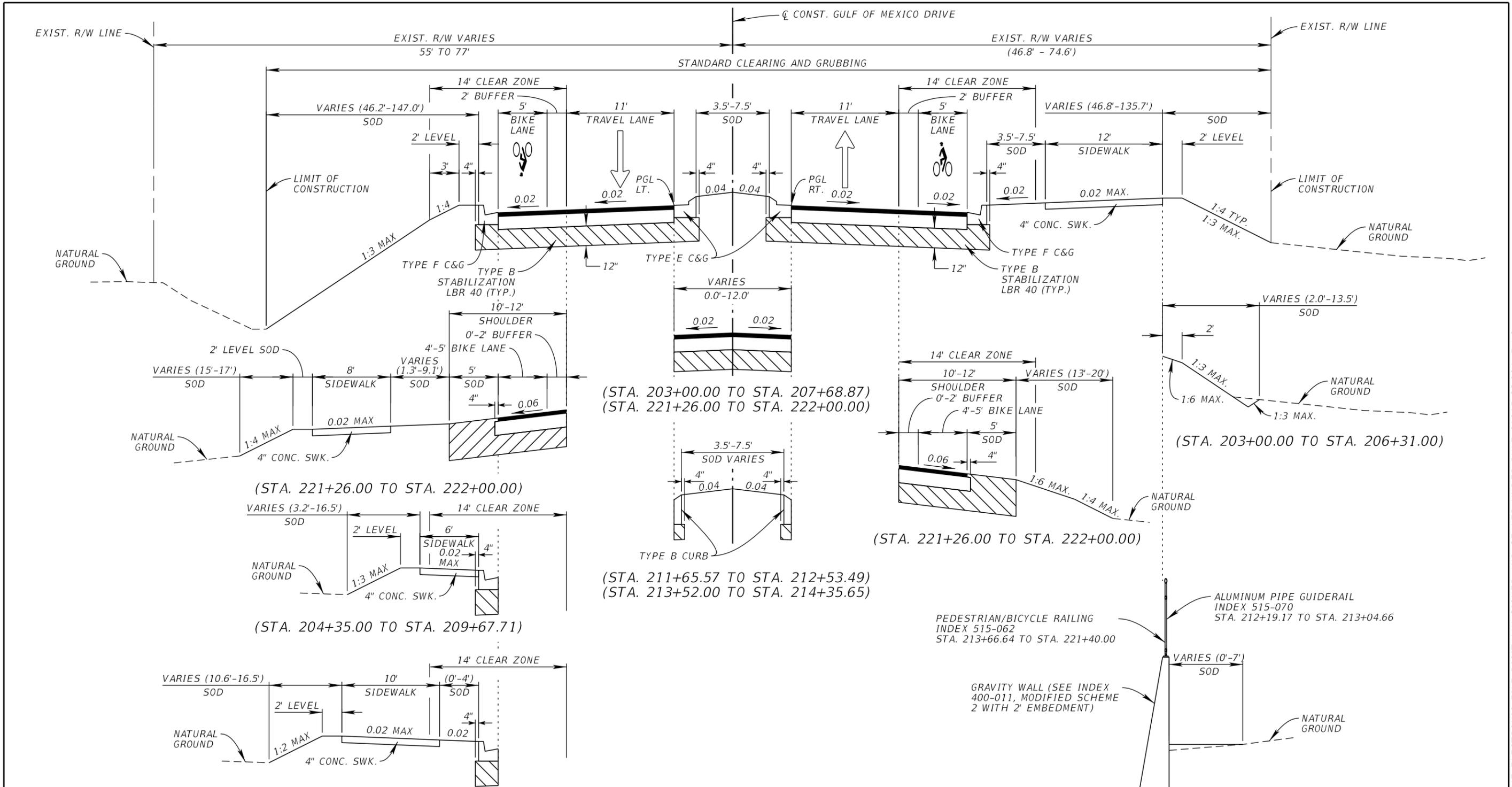
PIPE DATA								
LABEL	START NODE	START INVERT (FT)	STOP NODE	STOP INVERT (FT)	BARRELS	LENGTH (FT)	SIZE (IN)	SHAPE
P-01	S-01	0.60	MH-01	0.54	1	40	14x23 inch	Elliptical
P-01C	COLLAR-01	1.16	S-11	1.17	1	6	12 inch	Circular
P-01M	MH-01	0.54	MH-02	0.29	1	171	18 inch	Circular
P-01Y	YD-01	2.00	YD-02	1.80	1	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-02	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.

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURE INFORMATION SHEET (2)	SHEET NO. 7
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		
				SR 789	MANATEE	453730-1-52-01					

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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 (ROUNDBOUT)
 DESIGN/POSTED SPEED = 35 MPH (SR 789)
 C3R - SUBURBAN RESIDENTIAL

(STA. 211+74.24 TO STA. 212+59.01)
 (STA. 213+87.70 TO STA. 213+87.13)

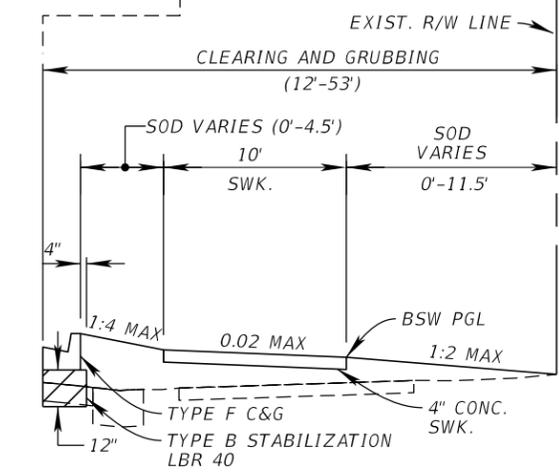
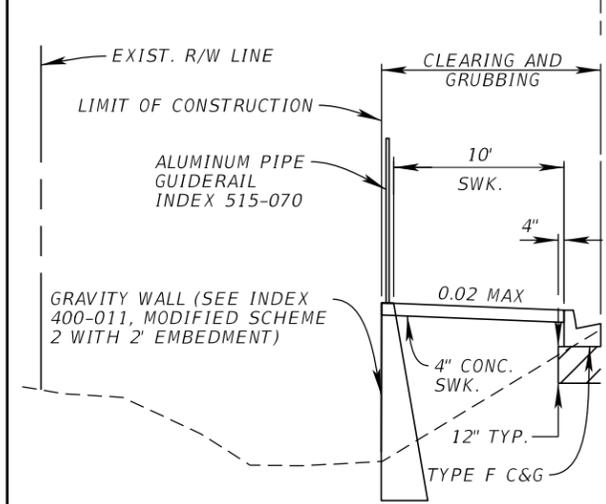
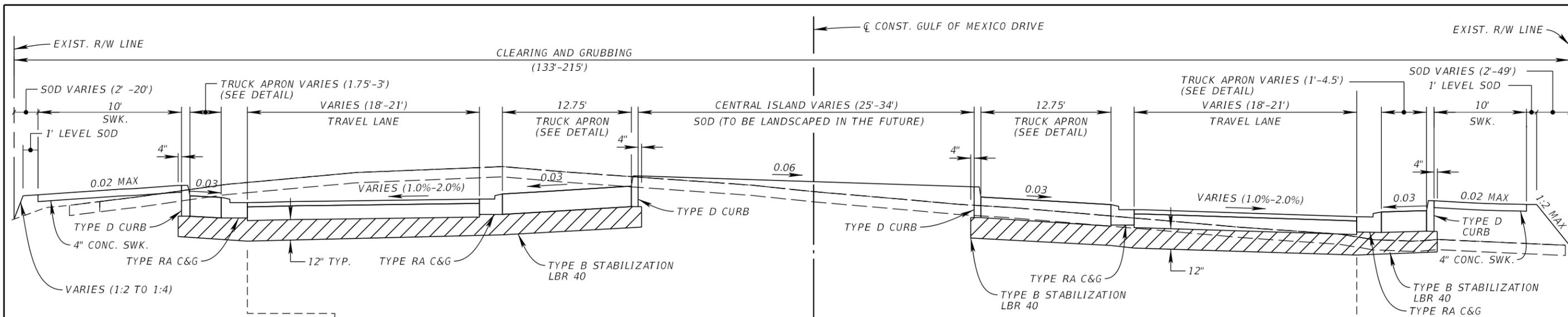
TYPICAL SECTION
 SR 789 (GULF OF MEXICO DRIVE)
 STA. 203+00.00 TO STA. 212+53.49
 STA. 213+52.00 TO STA. 222+00.00

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				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	
						SR 789	MANATEE	453730-152-01	8

TYPICAL SECTION

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)

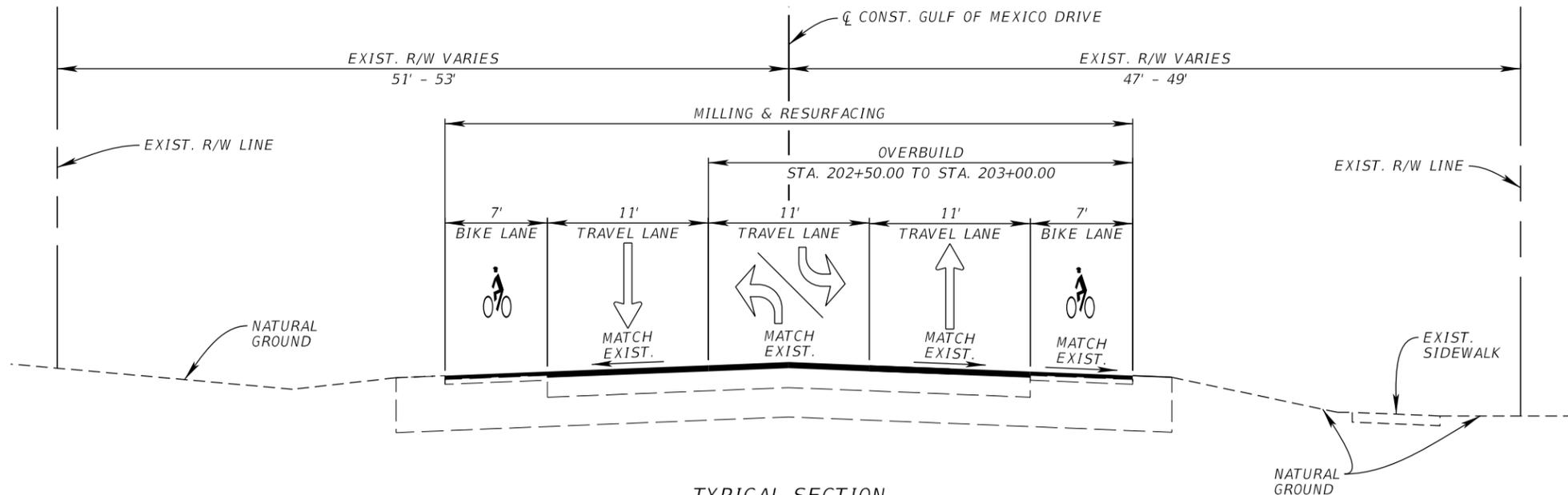
MILLING & RESURFACING

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

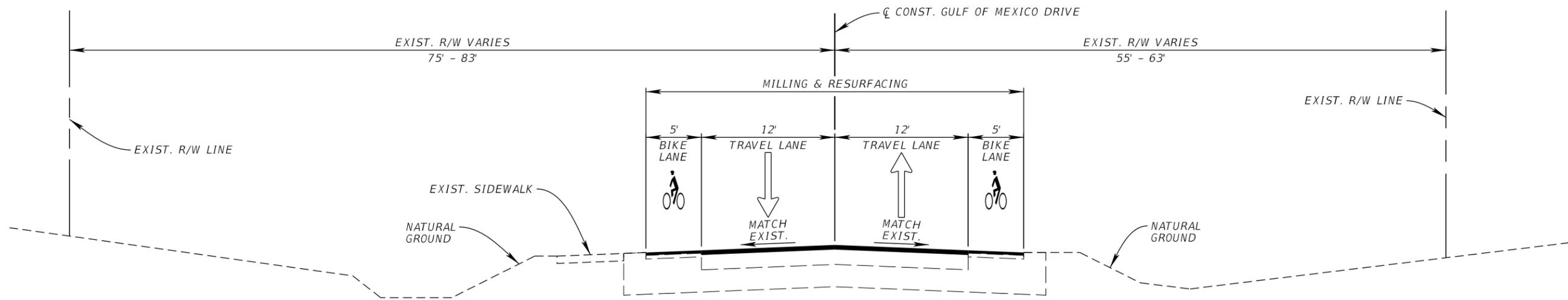
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 789	MANATEE	453730-1-52-01	9

TYPICAL SECTION

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

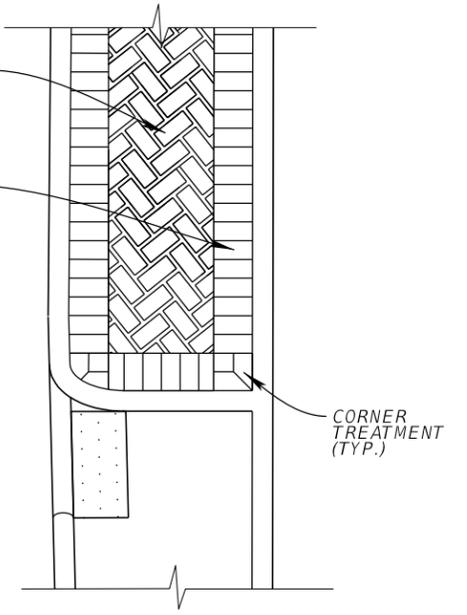
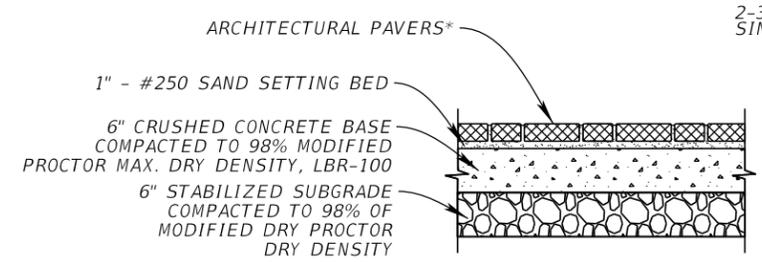
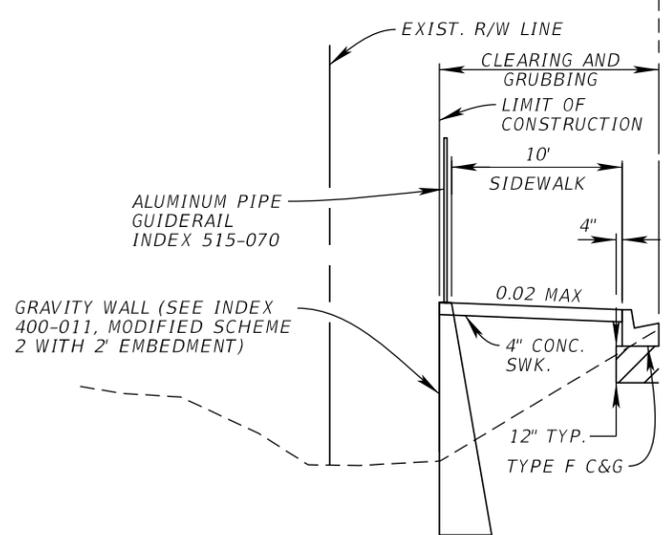
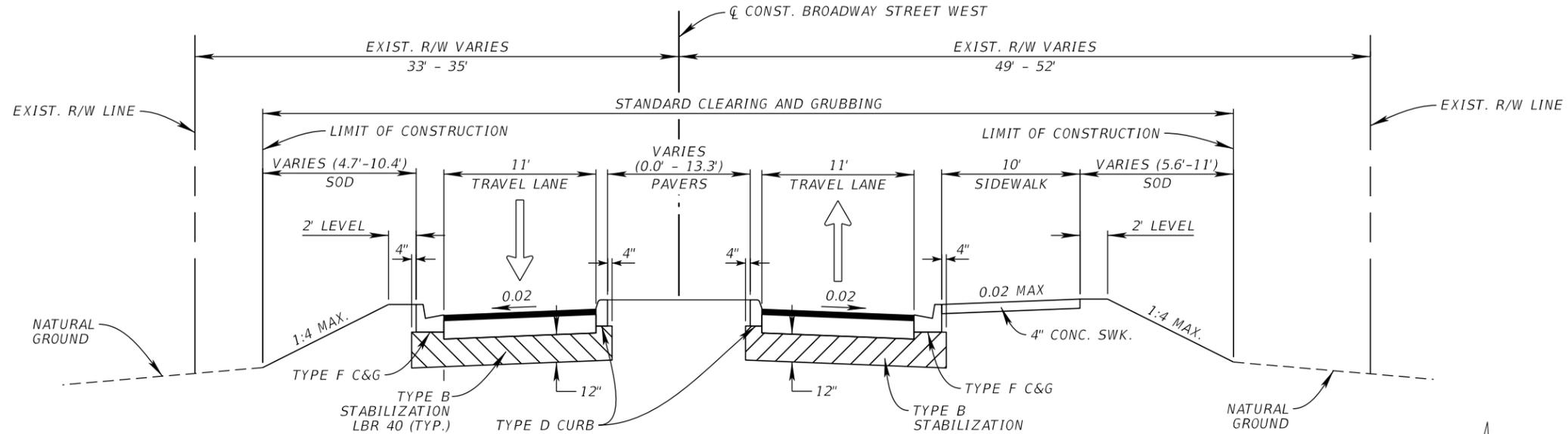
MILL EXISTING ASPHALT PAVEMENT (1.5" AVG. DEPTH)
 FRICTION COURSE FC-12.5 (TRAFFIC B) (1.5") (PG 76-22)

OVERBUILD

TYPE SP STRUCTURAL COURSE (TRAFFIC B)

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			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	
						SR 789	MANATEE	453730-1-52-01	
							10		

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

SPLITTER ISLAND AND MEDIAN
ARCHITECTURAL PAVERS PLAN DETAIL
N.T.S.

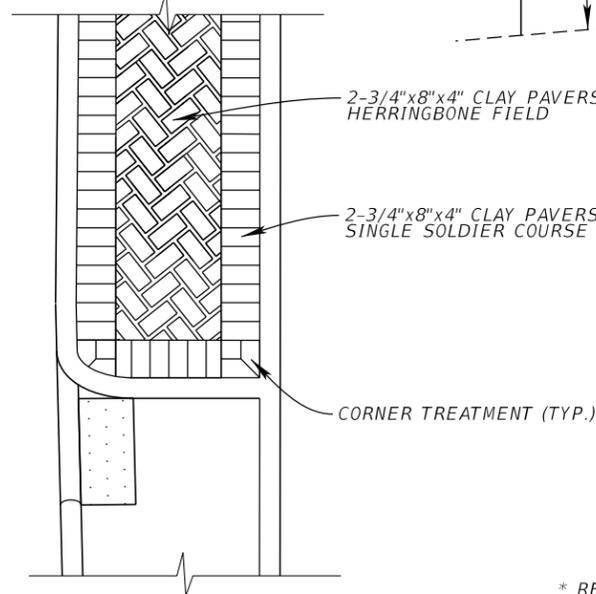
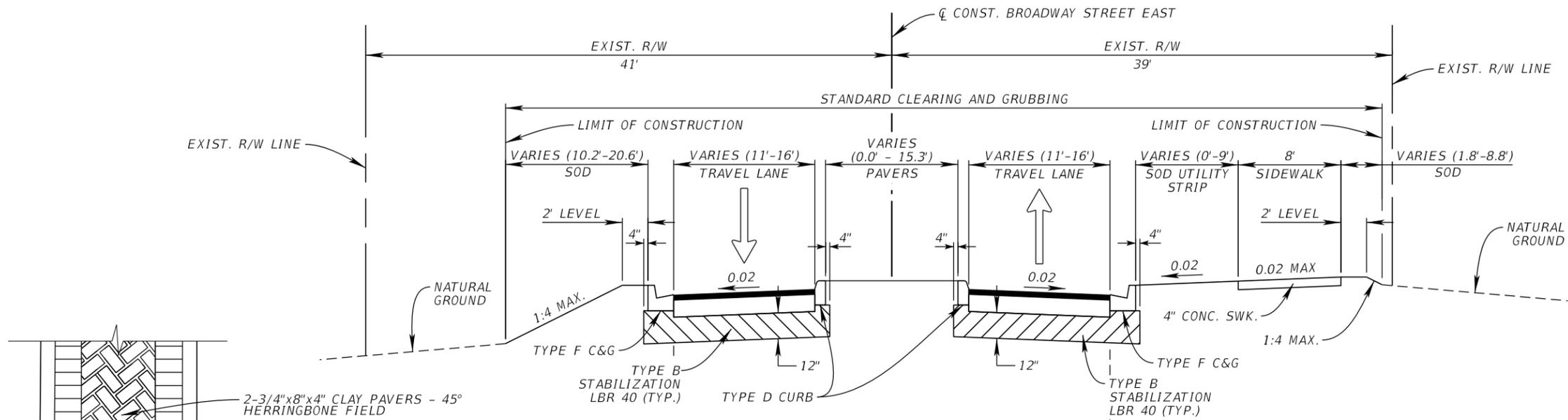
TRAFFIC DATA

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

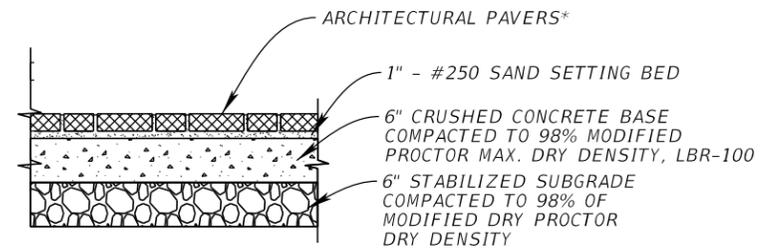
WIDENING / NEW CONSTRUCTION
 OPTIONAL BASE GROUP 6
 STRUCTURAL COURSE SP-12.5 (TRAFFIC B) (1.5")
 FRICTION COURSE FC-12.5 (TRAFFIC B) (1.5") (PG 76-22)

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			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	
						SR 789	MANATEE	453730-1-52-01	11
TYPICAL SECTION									

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

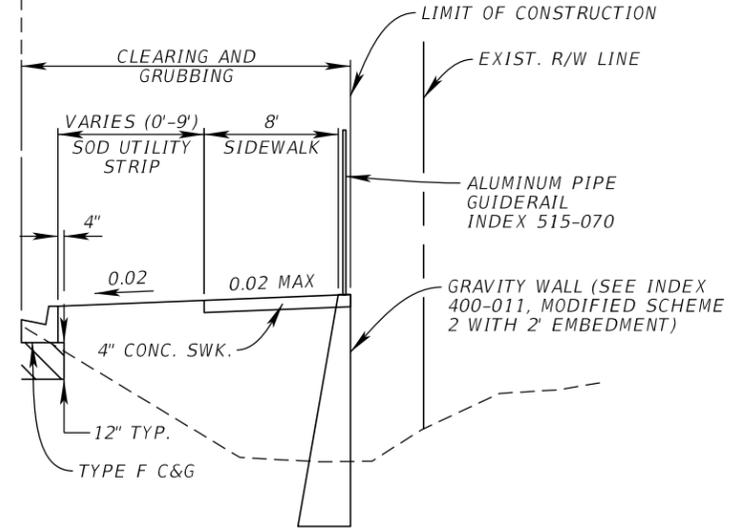


**SPLITTER ISLAND AND MEDIAN
ARCHITECTURAL PAVERS PLAN DETAIL**
N.T.S.



ARCHITECTURAL PAVER DETAIL
NOT TO SCALE

* REMOVE AND RESET EXISTING PAVERS AS SHOWN IN PLANS.



SEE SR789 TYPICAL SECTION FOR STATION LIMITS

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

TRAFFIC DATA

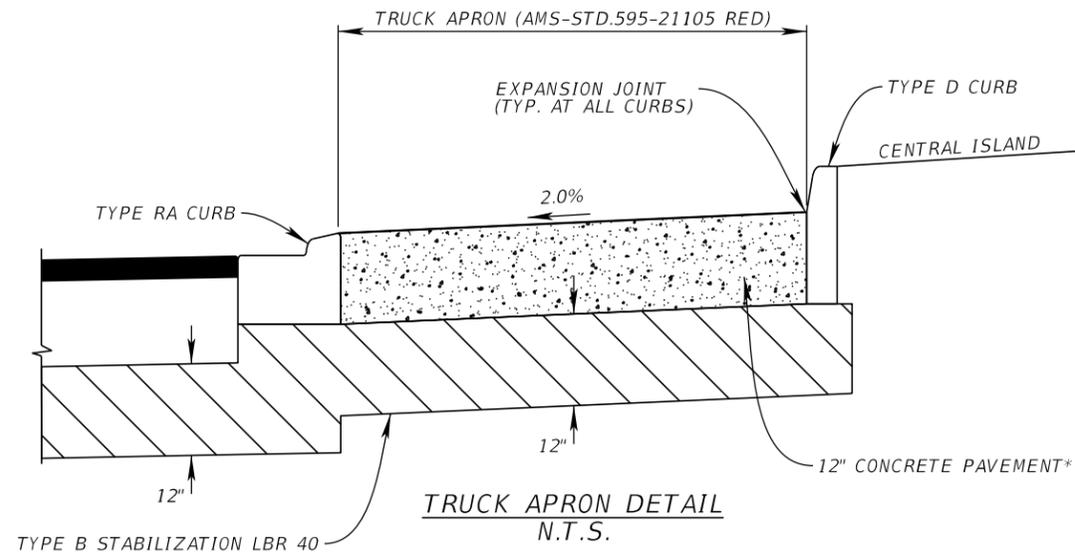
CURRENT YEAR = 2025 AADT = N/A
 ESTIMATED OPENING YEAR = 2026 AADT = N/A
 ESTIMATED DESIGN YEAR = 2040 AADT = N/A
 K = N/A D = N/A T = N/A (24 HOUR)
 DESIGN HOUR T = N/A
 DESIGN/POSTED SPEED = 20 MPH
 C3R - SUBURBAN RESIDENTIAL

WIDENING / NEW CONSTRUCTION

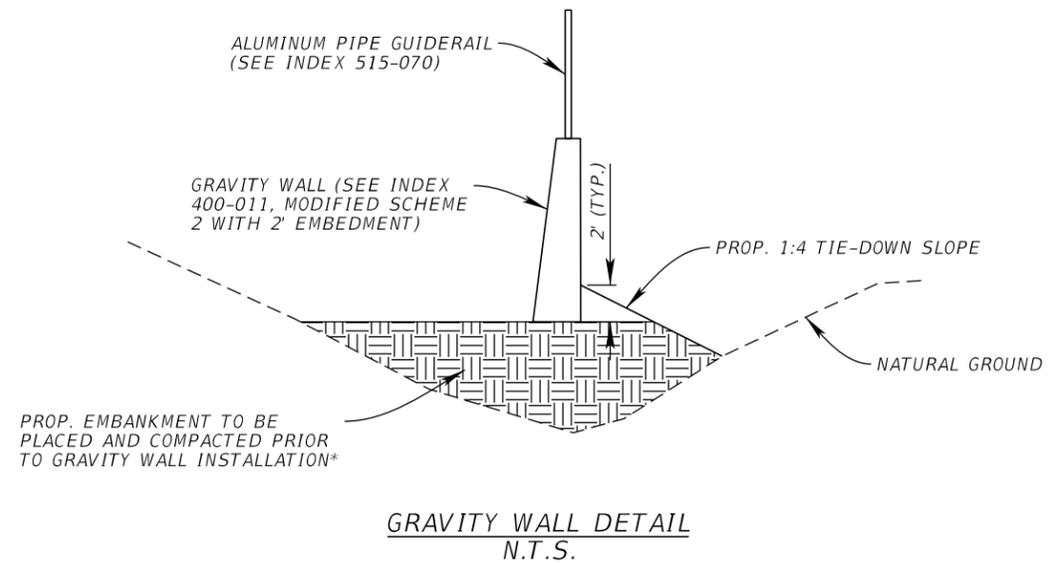
OPTIONAL BASE GROUP 6
 STRUCTURAL COURSE SP-12.5 (TRAFFIC B) (1.5")
 FRICTION COURSE FC-12.5 (TRAFFIC B) (1.5") (PG 76-22)

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			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	
						SR 789	MANATEE	453730-1-52-01	12
TYPICAL SECTION									

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



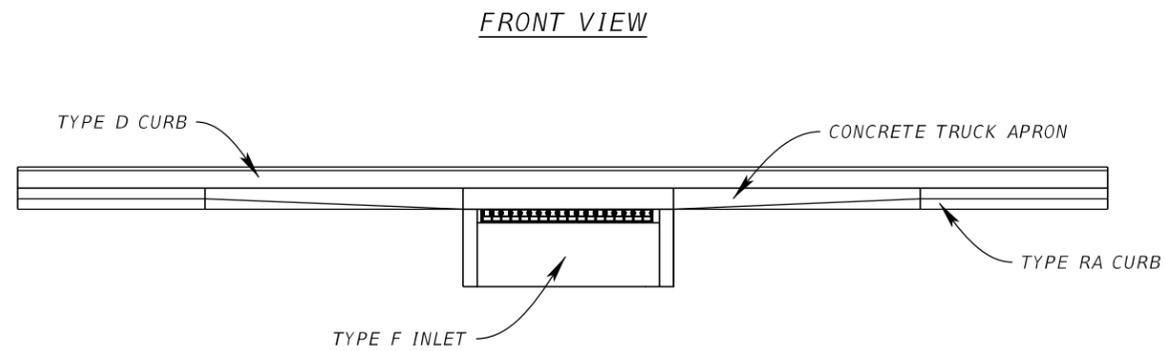
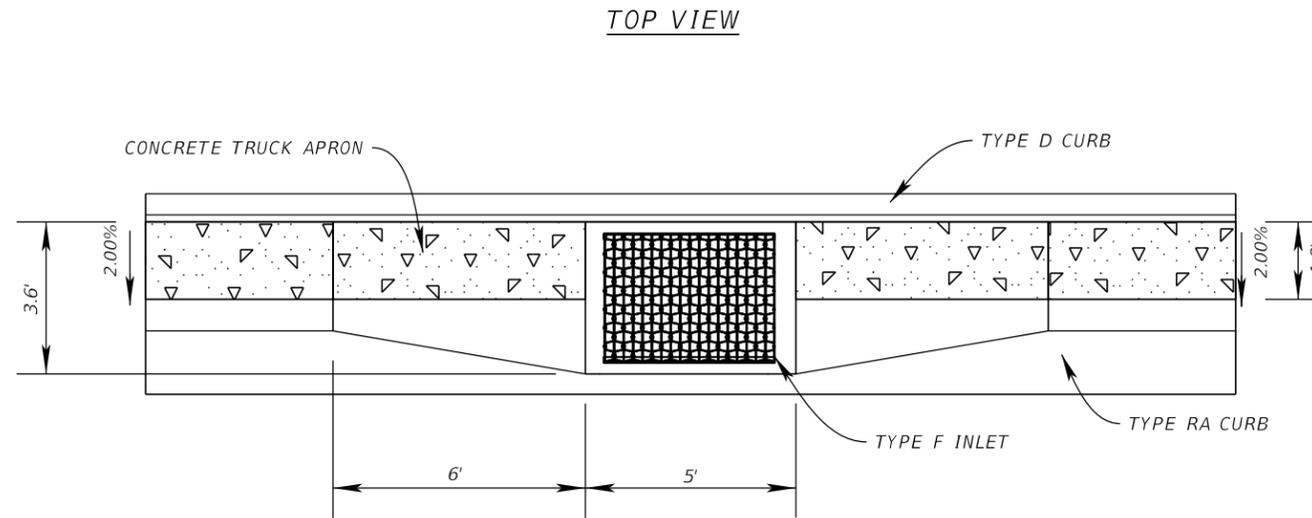
* CONTRACTOR SHOULD USE HIGH-EARLY STRENGTH CONCRETE AND NOT OPEN TRUCK APRON TO TRAFFIC UNTIL CONCRETE REACHES 2200 PSI COMPRESSIVE STRENGTH.



* 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

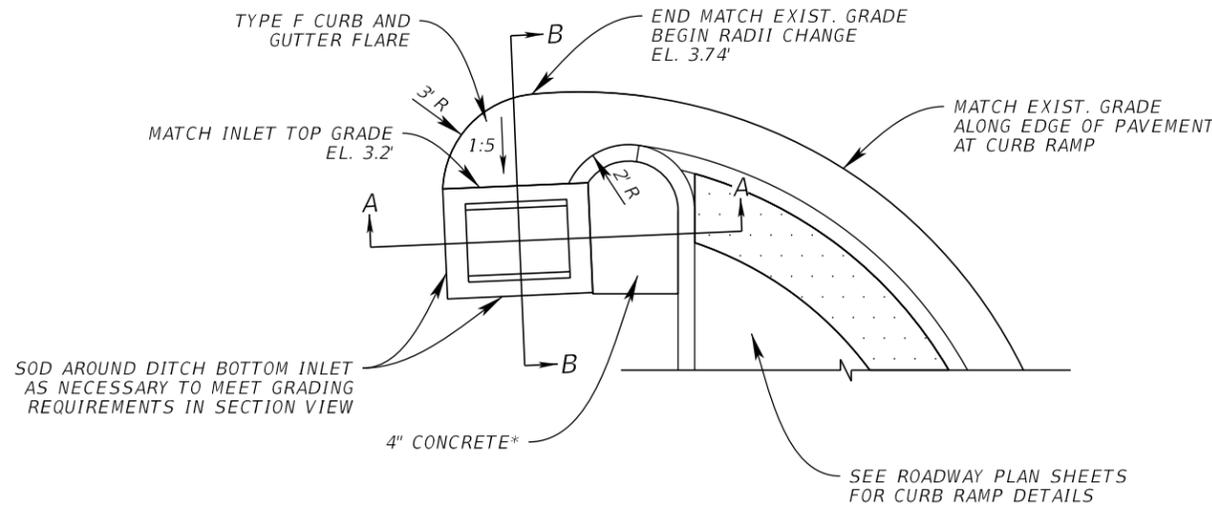
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SPECIAL DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 789	MANATEE	453730-1-52-01		13



APRON CURB INLET DETAIL
N.T.S.

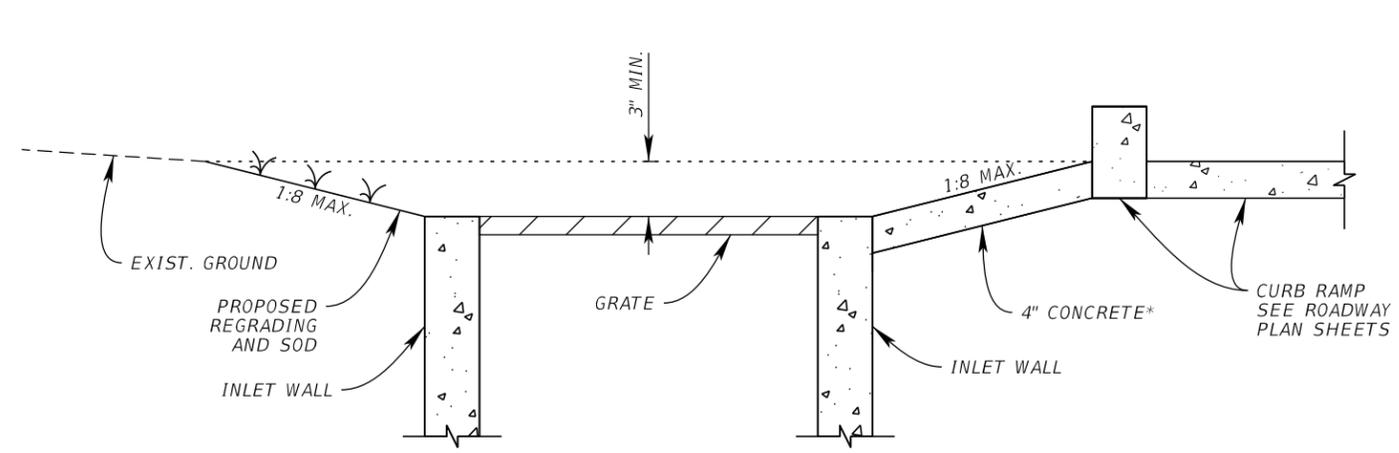
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>SPECIAL DETAILS</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236		ROAD NO.	COUNTY	FINANCIAL PROJECT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

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

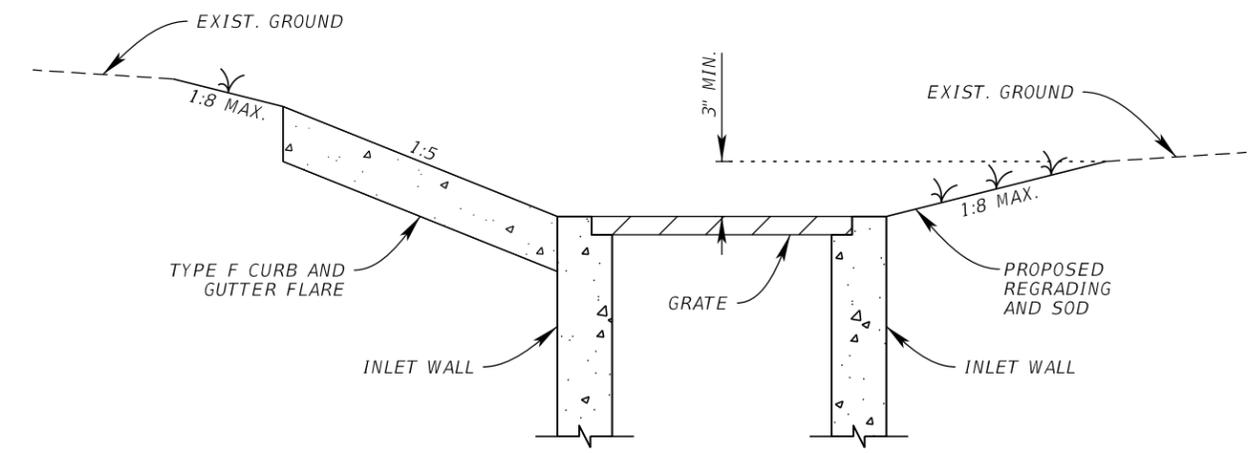


S-11 PLAN VIEW
N.T.S.

* 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. 15
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	
						SR 789	MANATEE	453730-1-52-01	

SPECIAL DETAILS

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

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.

⊕ 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
--	---

NOTES:

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

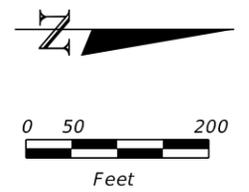
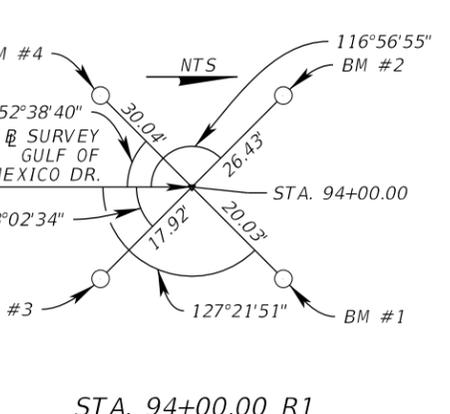
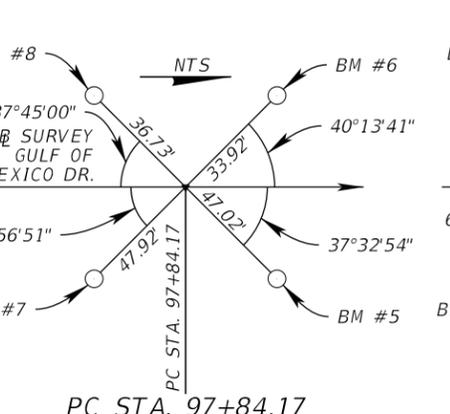
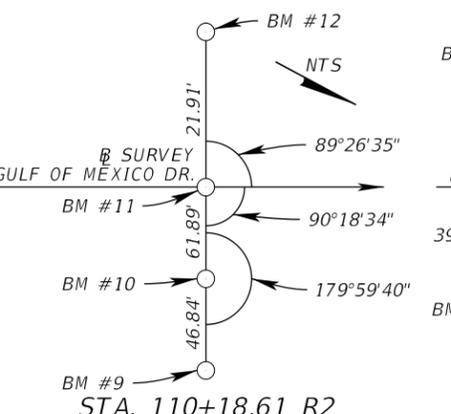
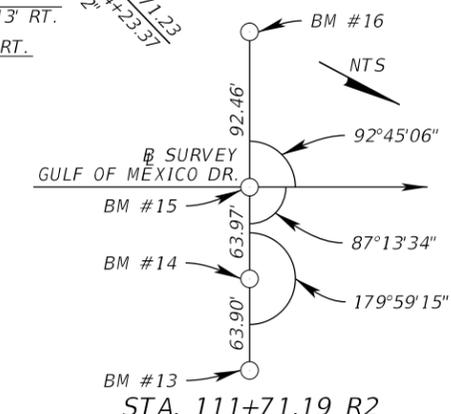
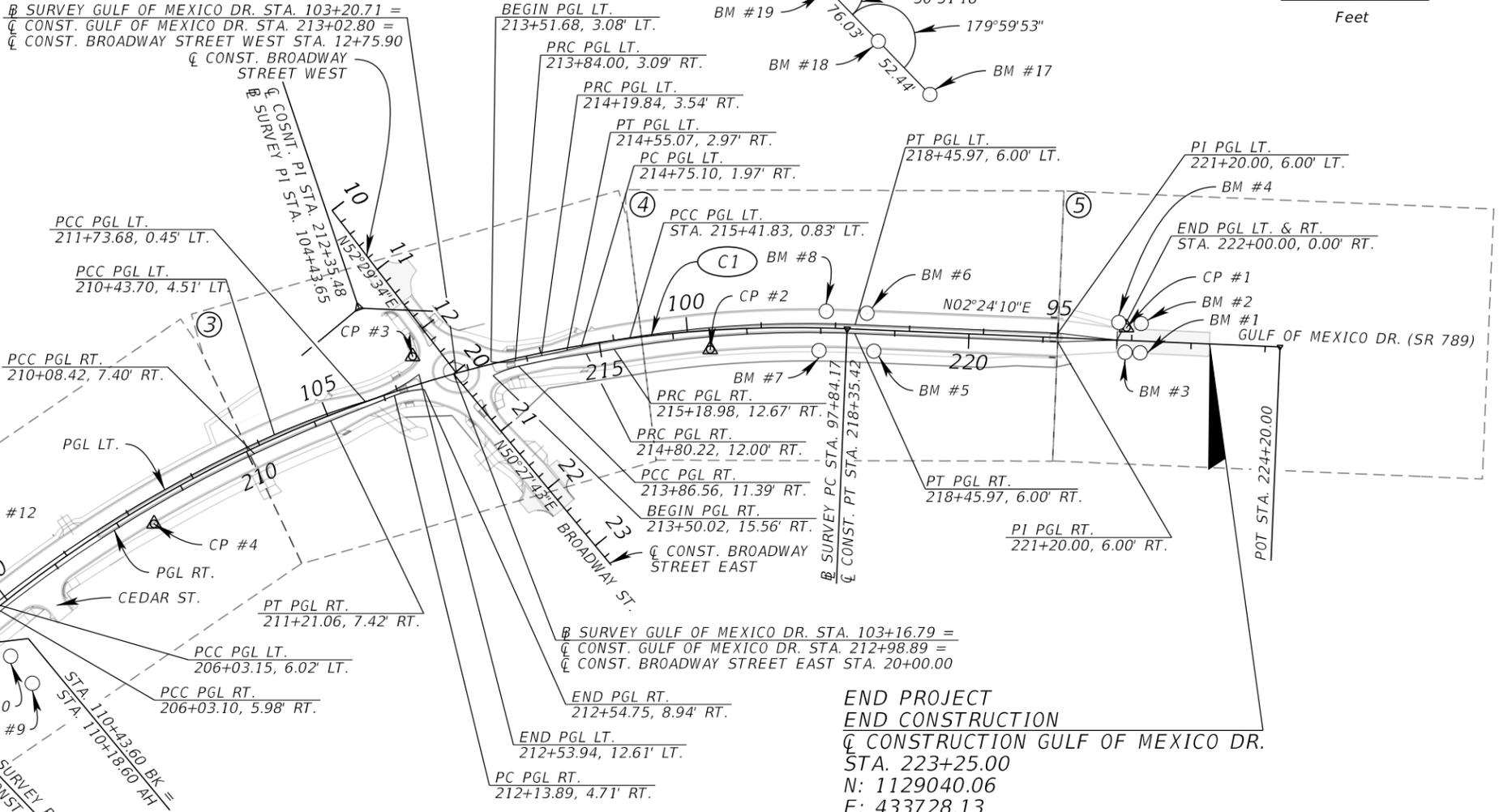
**BASELINE STATIONS ARE ON WEST SIDE OF ALIGNMENT, CENTERLINE STATIONS ARE ON EAST SIDE.

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

LEGEND:

○ MISC. SURVEY MONUMENTATION

**BEGIN PROJECT
BEGIN CONSTRUCTION**
 ⊕ CONSTRUCTION GULF OF MEXICO DR.
 STA. 200+80.00
 ⊕ SURVEY GULF OF MEXICO DR.
 STA. 115+14.60
 N: 1127018.42
 E: 434435.22



REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT AND CONTROL	SHEET NO. 16
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		
						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.

ROADWAY GENERAL NOTES

- BENCH MARK DATUM FOR ALL BEARINGS ARE NAD 83 / 11 ADJUSTMENT. BENCH MARK DATUM FOR ALL ELEVATIONS ARE BASED ON NAVD 1988.
- 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.
- 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 ASSOCIATED WORK.
- 4" CONCRETE DITCH PAVEMENT SHALL INCLUDE BRICKS TO DISSIPATE ENERGY PER STANDARD PLANS INDEX 425-061.
- 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
- LANDSCAPING FEATURES WILL BE INSTALLED POST-CONSTRUCTION BY THE LOCAL AGENCY VIA AN FDOT PERMIT.
- CONTRACTOR WILL USE EXTREME CAUTION WHILE REMOVING THE EXISTING DRIVEWAYS TO PREVENT DAMAGE. PAVERS WILL BE STORED IN A SAFE AREA, TO PREVENT DAMAGE AND THEFT. CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING ANY DAMAGED PAVER WITH LIKE KIND AND THIS COST IS CONSIDERED INCIDENTAL TO THE COST OF THE PAVER.

PAY ITEM NOTES

- PAY ITEM 110-7-1 - INCLUDES THE COST INCURRED BY THE CONTRACTOR FOR REMOVAL AND DISPOSAL OF EXISTING, NON-SPECIAL MAILBOXES. SPECIAL MAILBOXES IDENTIFIED IN THE PLANS ARE TO REMAIN, BE RESET, OR RELOCATED AS NEEDED. NEW MAILBOXES SHALL UTILIZE SINGLE WOODEN POSTS WITH A BURIED DEPTH BELOW GRADE SUITABLE FOR BREAKAWAY DESIGN PER FDOT STANDARD INDEX 110-200.
- PAY ITEM 350-30-13 - THE COST OF HIGH-EARLY COMPRESSIVE STRENGTH CONCRETE IS INCIDENTAL TO THE COST OF THE CONCRETE APRON.
- 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.
- PAY ITEM 524-1-29 - INCLUDES THE COST OF BRICKS.

UTILITY ADJUSTMENT NOTES

- 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.
- COORDINATE WITH TOWN OF LONGBOAT UTILITIES, AS REQUIRED, TO DETERMINE VALVES TO SHUT DOWN AND THE CITY'S PREFERRED PLAN TO MAINTAIN WATER SERVICE.
- EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
- UTILITY/AGENCY OWNER:

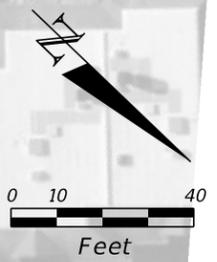
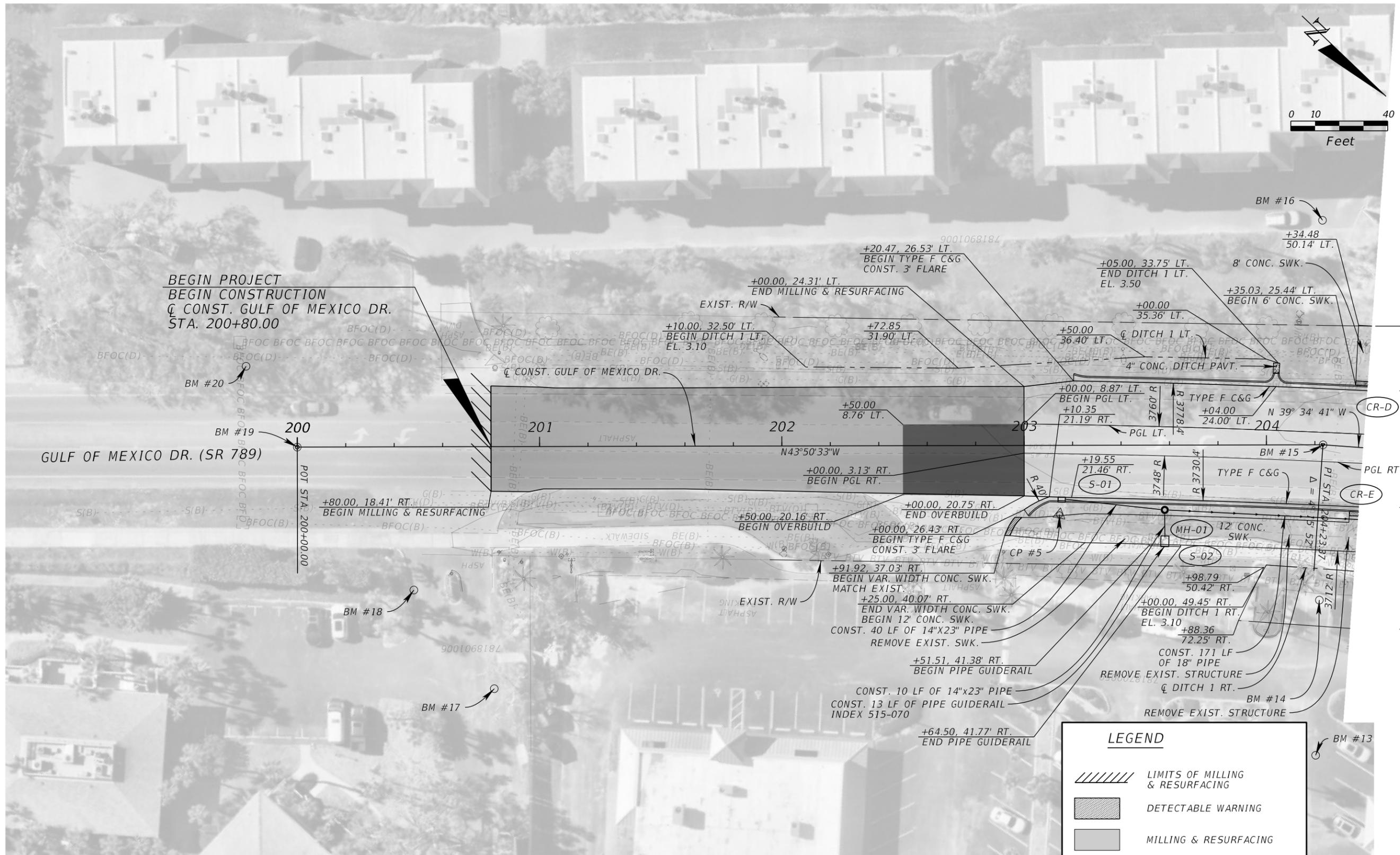
COMPANY	CONTACT	TELEPHONE NUMBERS
AT&T DISTRIBUTION TCA	MARTIN SHAW	(610) 328-6465 X 242
COMCAST	KEVIN MURPHY	(941) 356-1489
FLORIDA POWER & LIGHT - DISTRIBUTION	BRIAN GARVER	(941) 723-4442
FRONTIER FLORIDA	DENISE HUTTON	(941) 906-6722
HOTWIRE COMMUNICATIONS	WALTER SANCHO-DAVILA	(954) 699-0900
LONGBOAT 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

- 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				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	GENERAL NOTES
						SR 789	MANATEE	453730-1-52-01	

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LEGEND	
	LIMITS OF MILLING & RESURFACING
	DETECTABLE WARNING
	MILLING & RESURFACING
	LIMITS OF OVERBUILD

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
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						SR 789	MANATEE	453730-1-52-01	18

PLAN SHEET (1)

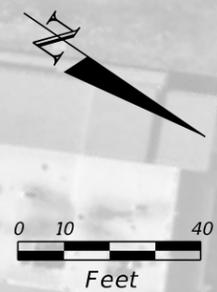
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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



- (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

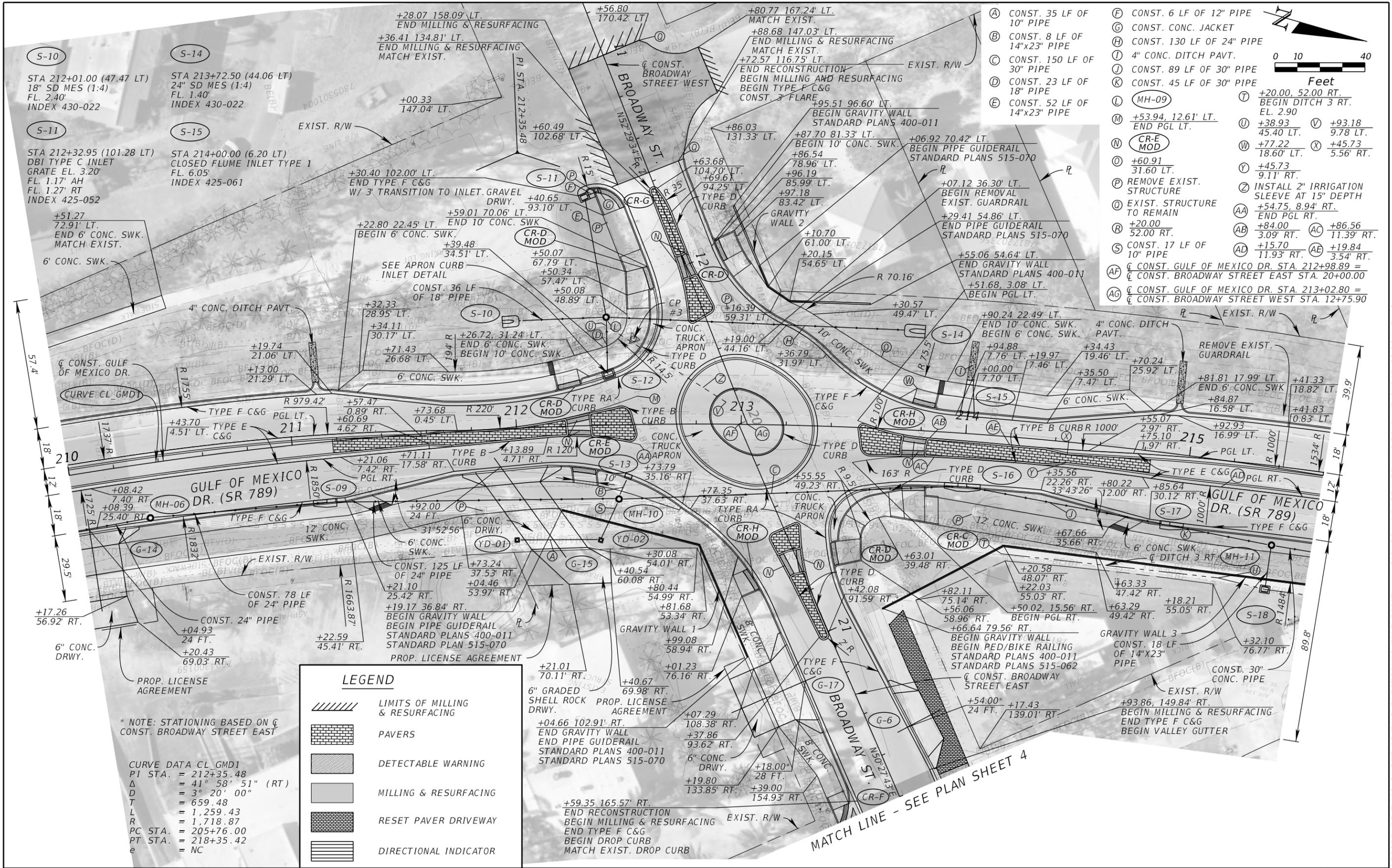
CURVE DATA CL_GMD1
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 Δ = 41° 58' 51" (RT)
 D = 3° 20' 00"
 T = 659.48
 L = 1,259.43
 R = 1,718.87
 PC STA. = 205+76.00
 PT STA. = 218+35.42
 e = NC

LEGEND

- DETECTABLE WARNING
- RESET PAVER DRIVEWAY
- PROPOSED MAILBOX

REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 789	MANATEE	453730-152-01	PLAN SHEET (2) 19
GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236							

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- Feet**
0 10 40
- (A) CONST. 35 LF OF 10" PIPE
 - (B) CONST. 8 LF OF 14"x23" PIPE
 - (C) CONST. 150 LF OF 30" PIPE
 - (D) CONST. 23 LF OF 18" PIPE
 - (E) CONST. 52 LF OF 14"x23" PIPE
 - (F) CONST. 6 LF OF 12" PIPE
 - (G) CONST. CONC. JACKET
 - (H) CONST. 130 LF OF 24" PIPE
 - (I) 4" CONC. DITCH PAVT.
 - (J) CONST. 89 LF OF 30" PIPE
 - (K) CONST. 45 LF OF 30" PIPE
 - (L) (MH-09)
 - (M) +53.94, 12.61' LT. END PGL LT.
 - (N) (CRE MOD)
 - (O) +60.91 31.60 LT.
 - (P) REMOVE EXIST. STRUCTURE
 - (Q) EXIST. STRUCTURE TO REMAIN
 - (R) +20.00 52.00 RT.
 - (S) CONST. 17 LF OF 10" PIPE
 - (AF) G CONST. GULF OF MEXICO DR. STA. 212+98.89 = G CONST. BROADWAY STREET EAST STA. 20+00.00
 - (AG) G CONST. GULF OF MEXICO DR. STA. 213+02.80 = G CONST. BROADWAY STREET WEST STA. 12+75.90
 - (T) +20.00, 52.00 RT. BEGIN DITCH 3 RT. EL. 2.90
 - (U) +38.93 45.40 LT.
 - (V) +93.18 9.78 LT.
 - (W) +77.22 18.60 LT.
 - (X) +45.73 5.56' RT.
 - (Y) +45.73 9.11' RT.
 - (Z) INSTALL 2" IRRIGATION SLEEVE AT 15' DEPTH
 - (AA) END PGL RT.
 - (AB) +84.00 3.09' RT.
 - (AC) +86.56 11.39' RT.
 - (AD) +15.70 11.93' RT.
 - (AE) +19.84 3.54' RT.

LEGEND

	LIMITS OF MILLING & RESURFACING
	PAVERS
	DETECTABLE WARNING
	MILLING & RESURFACING
	RESET PAVER DRIVEWAY
	DIRECTIONAL INDICATOR

* NOTE: STATIONING BASED ON G CONST. BROADWAY STREET EAST

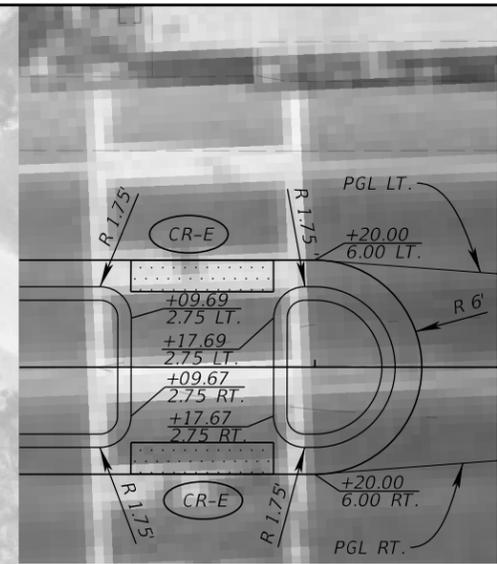
CURVE DATA CL_GMD1
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 T = 659.48
 L = 1,259.43
 R = 1,718.87
 PC STA. = 205+76.00
 PT STA. = 218+35.42
 e = NC

MATCH LINE - SEE PLAN SHEET 4

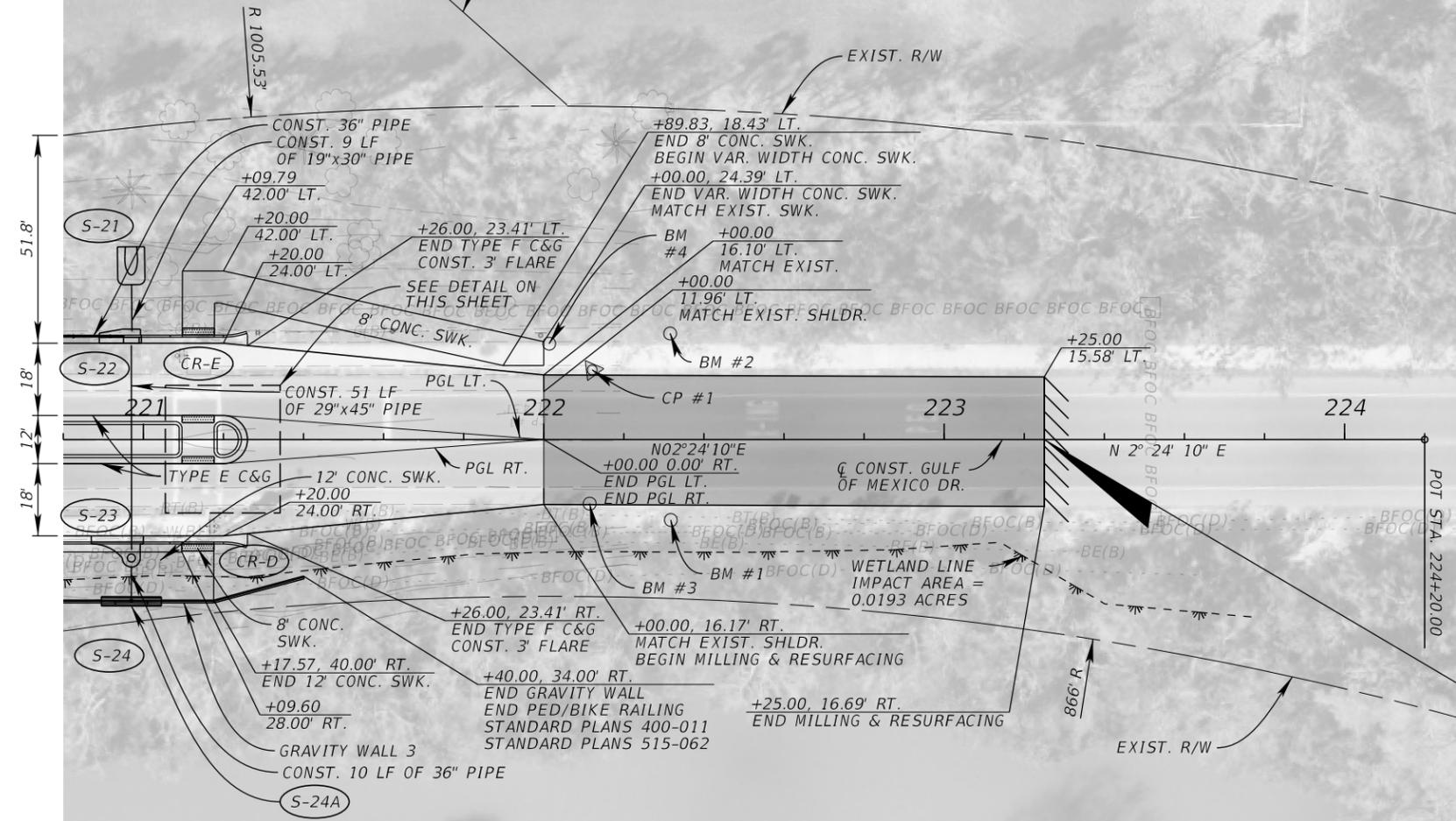
REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 789	MANATEE	453730-152-01	20

PLAN SHEET (3)

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DETAIL (SEE THIS SHEET)



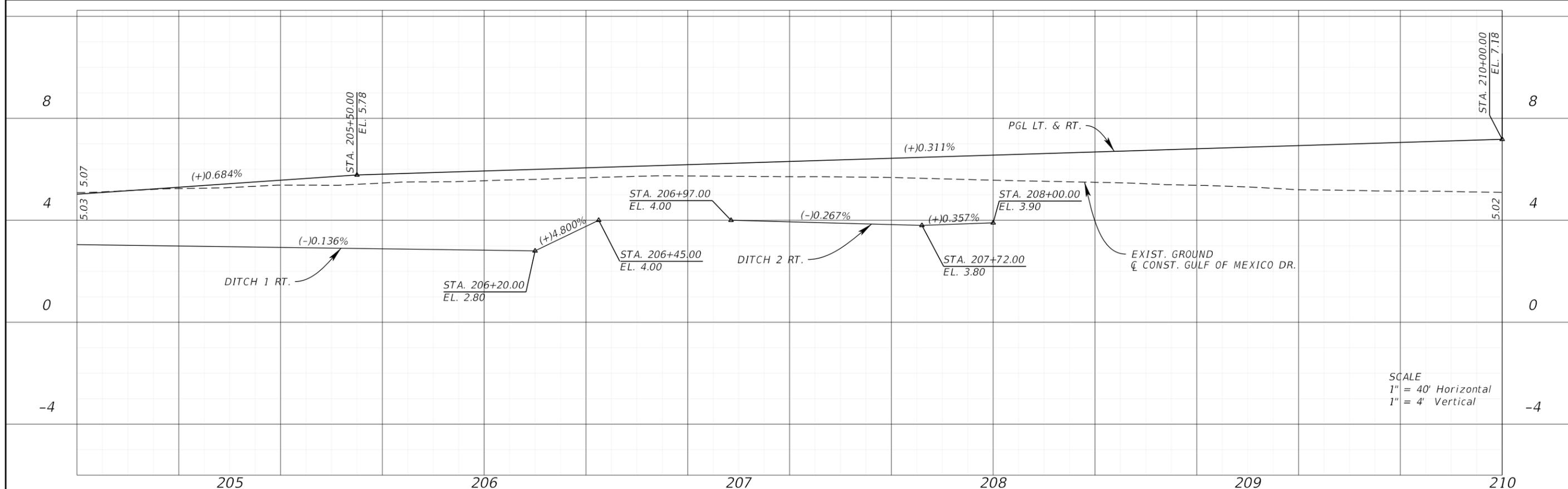
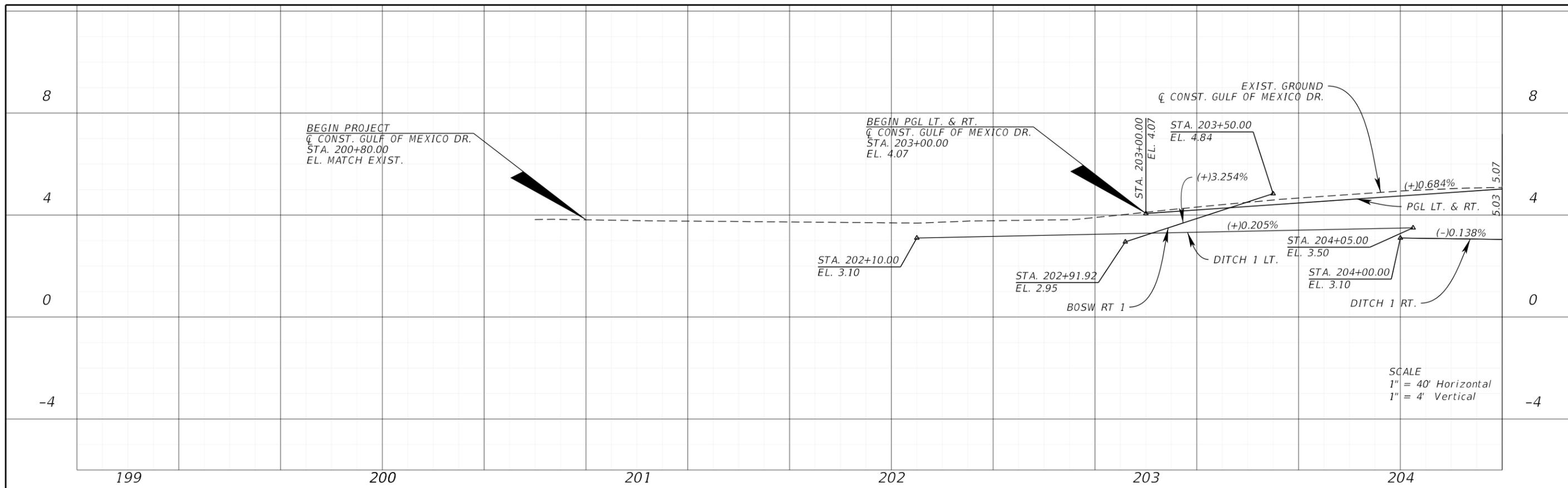
END PROJECT
 END CONSTRUCTION
 & CONST. GULF OF MEXICO DR.
 STA. 223+25.00

LEGEND	
	LIMITS OF MILLING & RESURFACING
	DETECTABLE WARNING
	MILLING & RESURFACING

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

PLAN SHEET (5)

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

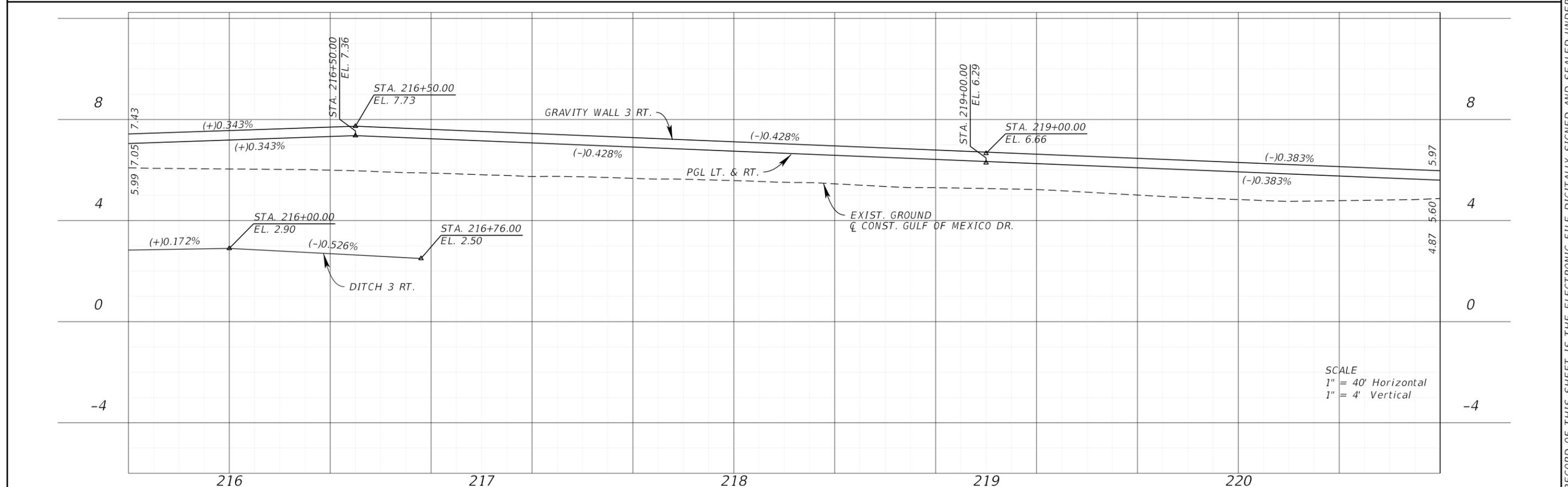
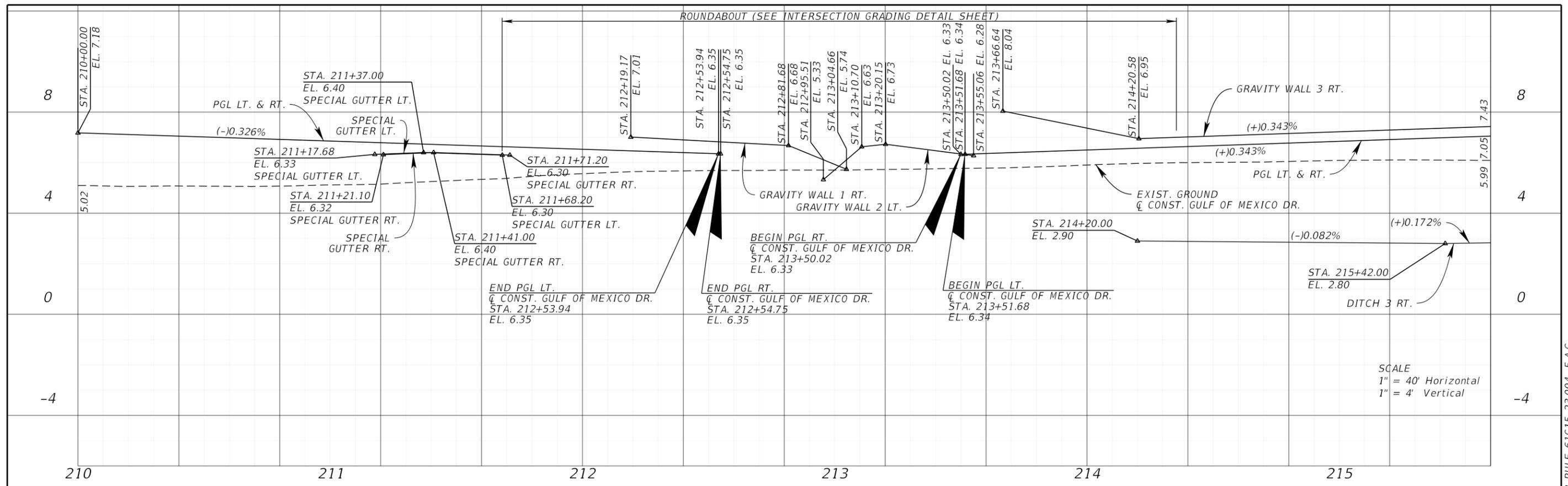


REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 789	MANATEE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

PROFILE SHEET (1)

23

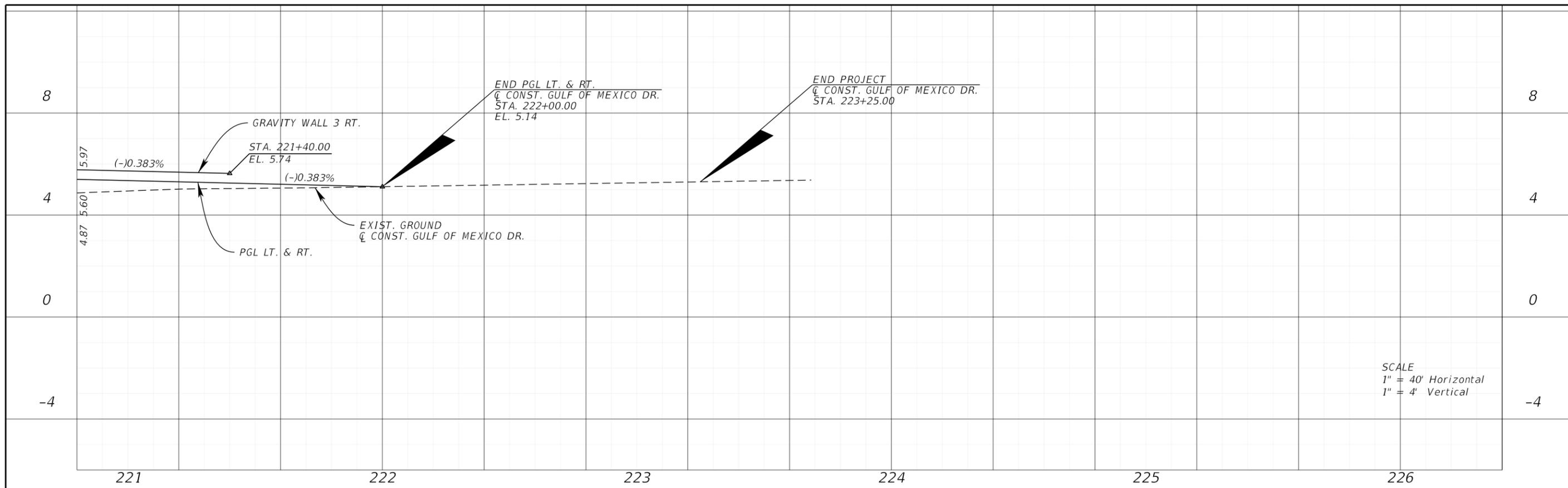
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	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

PROFILE SHEET (2)

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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROFILE 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		
											SR 789

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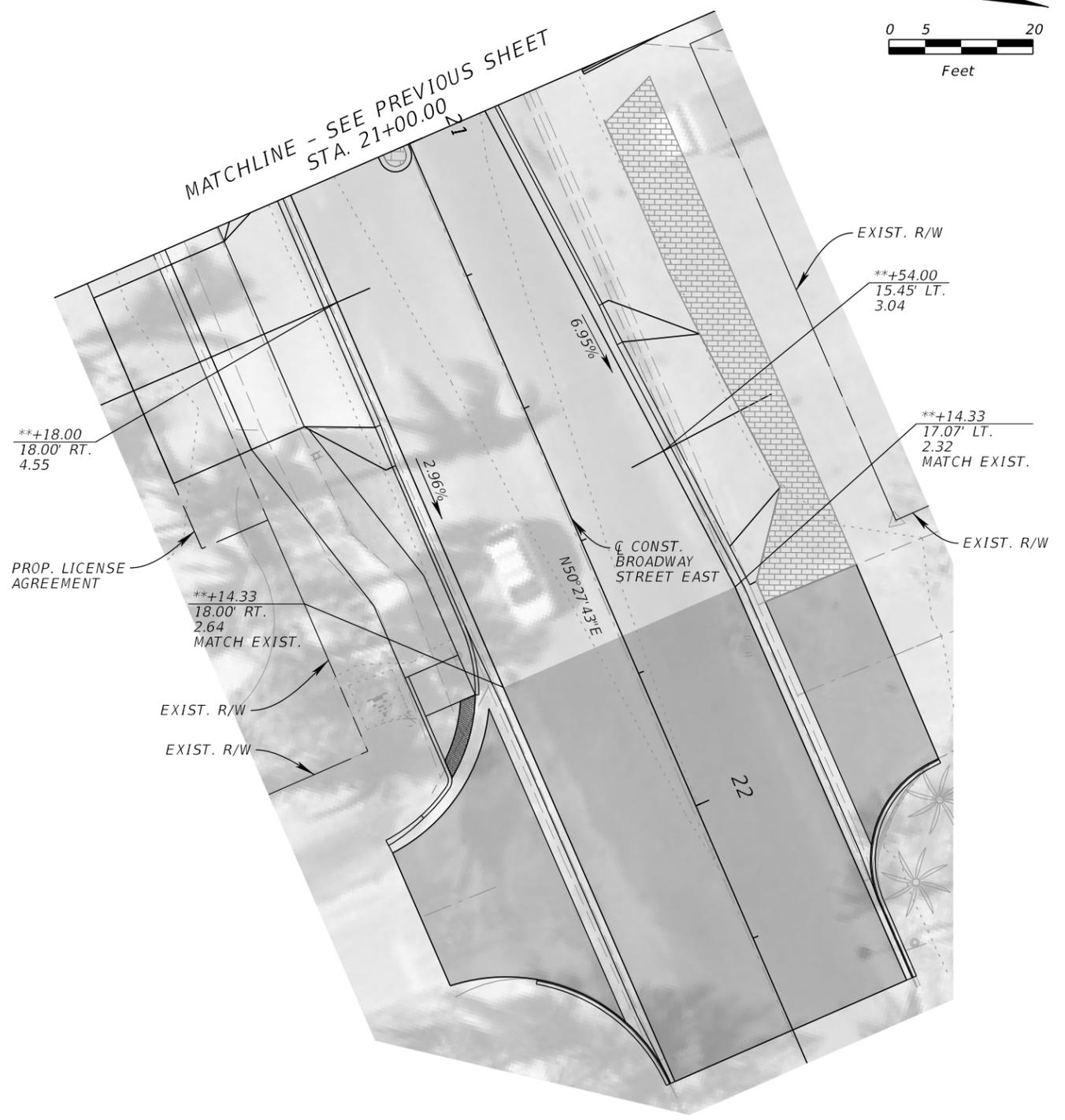
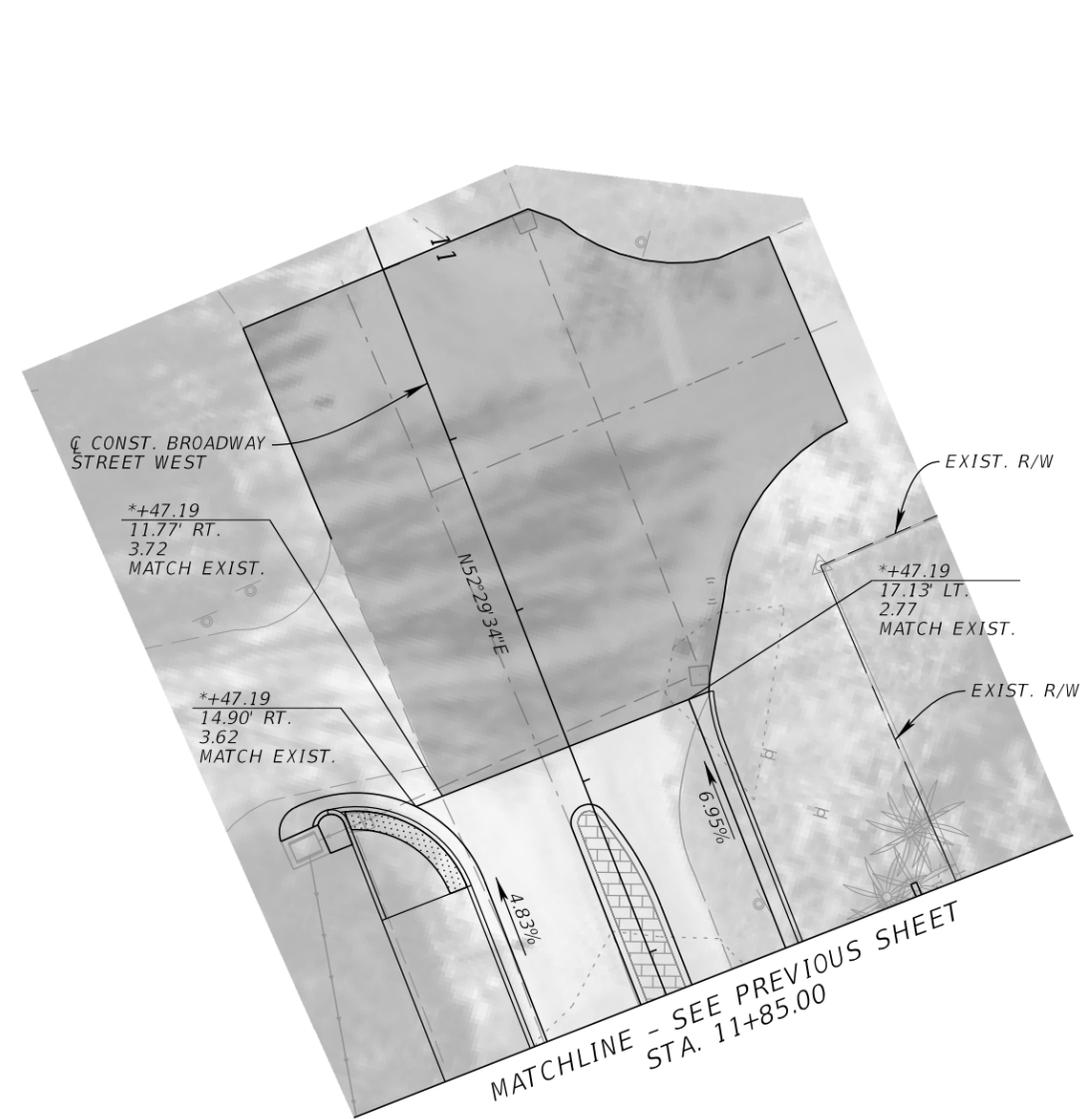
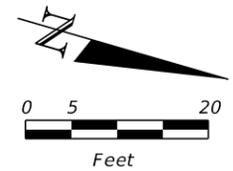


LEGEND

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

REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
			GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	SR 789	MANATEE	453730-152-01	26
<p style="text-align: center;">ROUNDABOUT GEOMETRY AND GRADING DETAIL (1)</p>							

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LEGEND

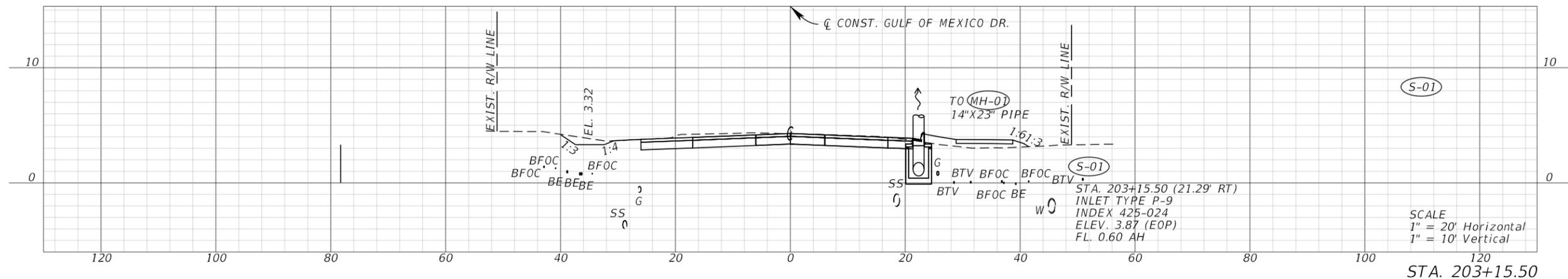
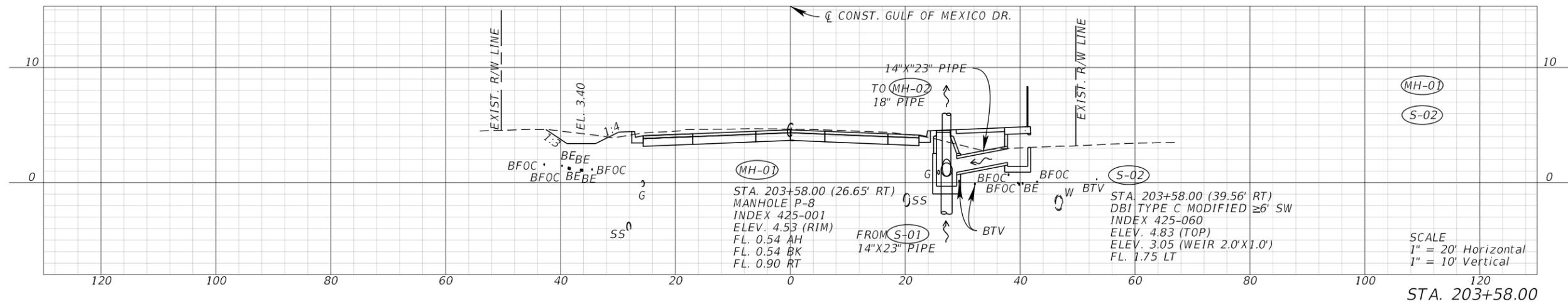
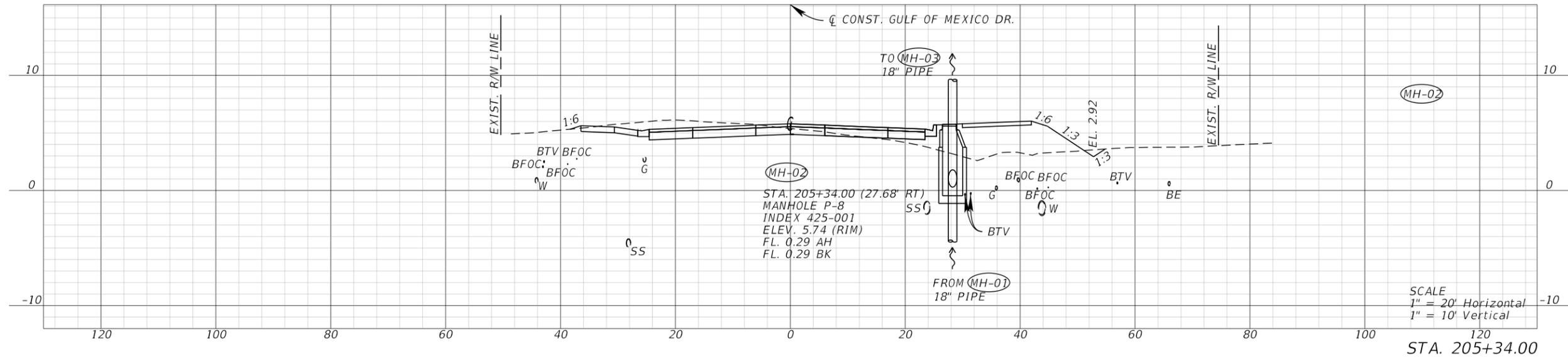
- MILLING & RESURFACING
- DETECTABLE WARNINGS
- TRUCK / SPLITTER ISLAND PAVERS
- RESET PAVER DRIVEWAY
- DIRECTIONAL INDICATOR

NOTES:
 * STATIONING BASED ON \bar{C} CONST. BROADWAY STREET WEST
 ** STATIONING BASED ON \bar{C} CONST. BROADWAY STREET EAST

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROUNDABOUT GEOMETRY AND GRADING DETAIL (2)	SHEET NO. 27
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		
								SR 789		

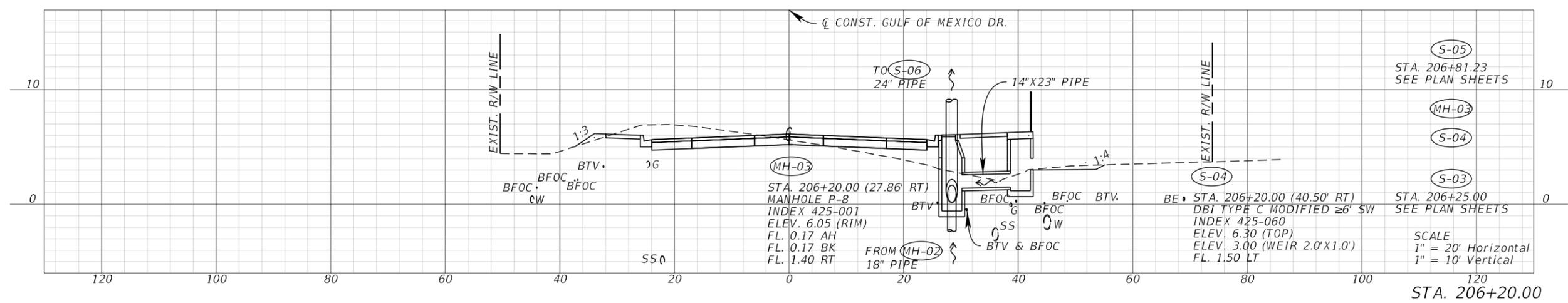
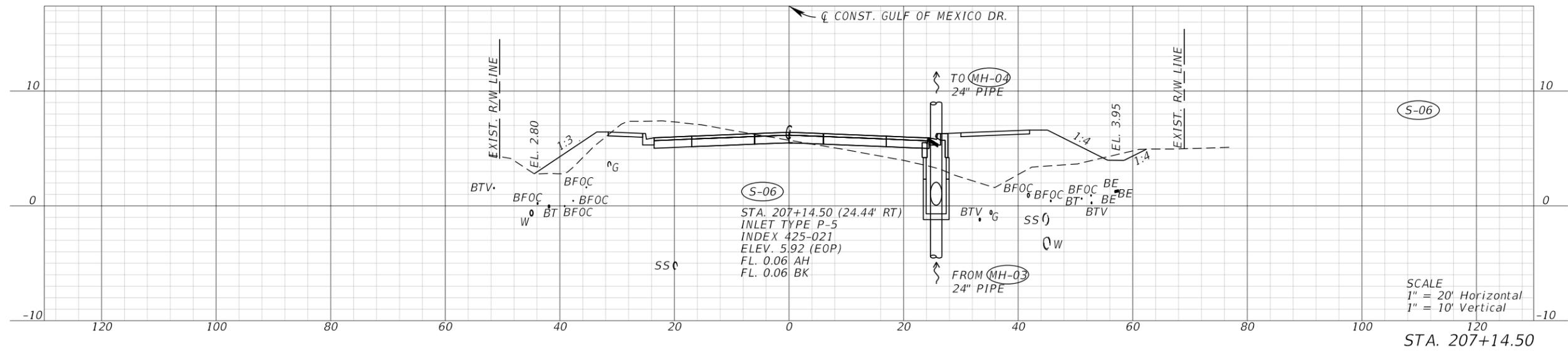
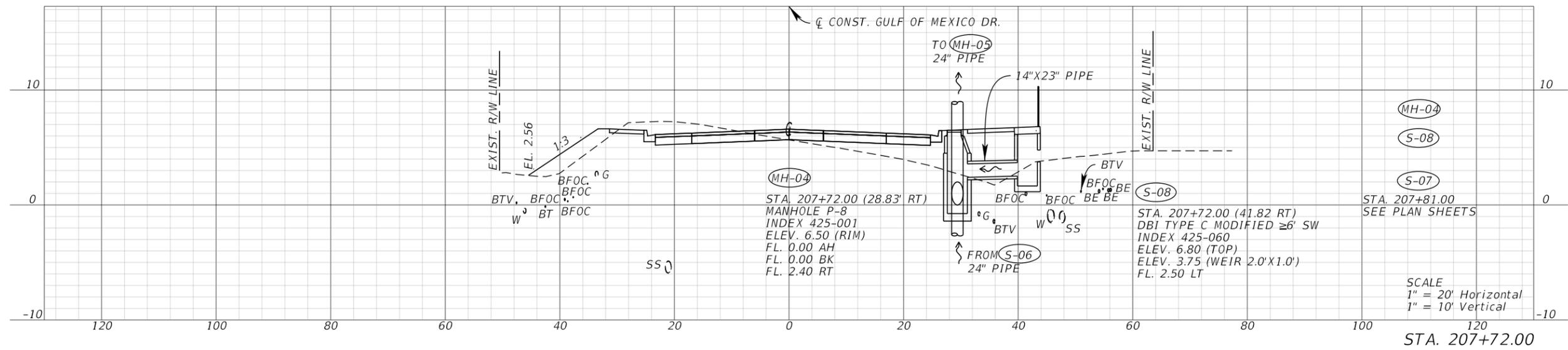
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NOTE:
 1) SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THESE LOCATIONS.
 2) ALL DRAINAGE PIPES 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				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
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						SR 789	MANATEE	453730-1-52-01	
							28		

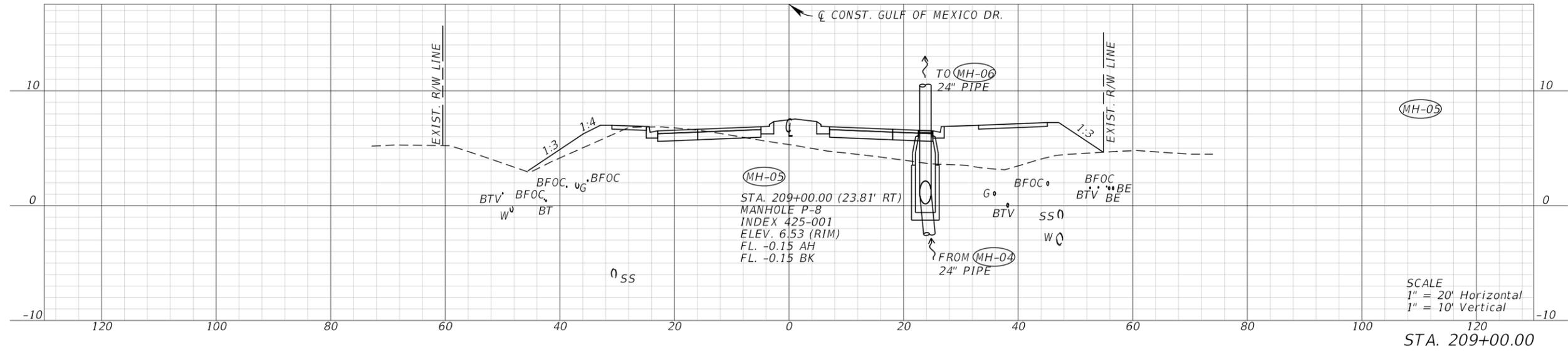
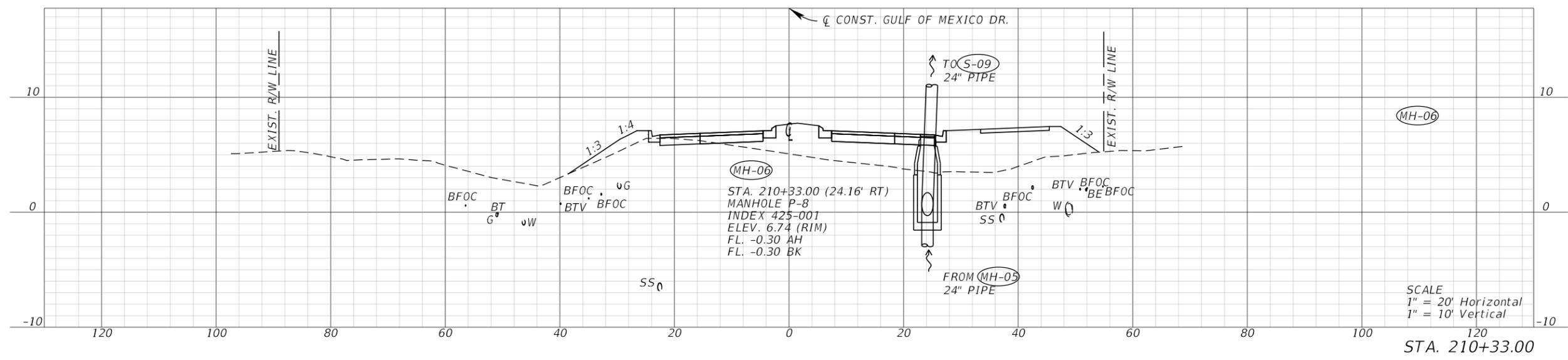
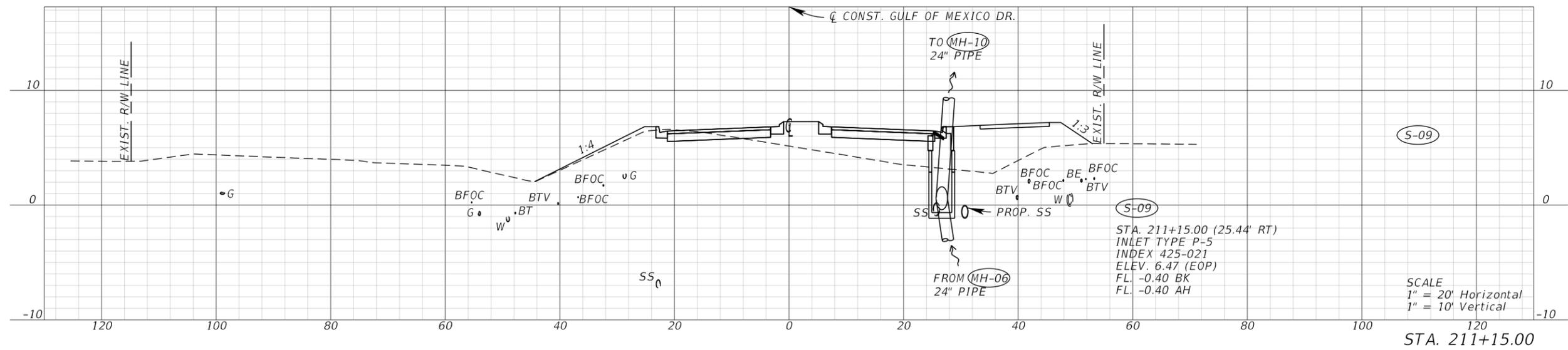
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						SR 789	MANATEE	453730-152-01	

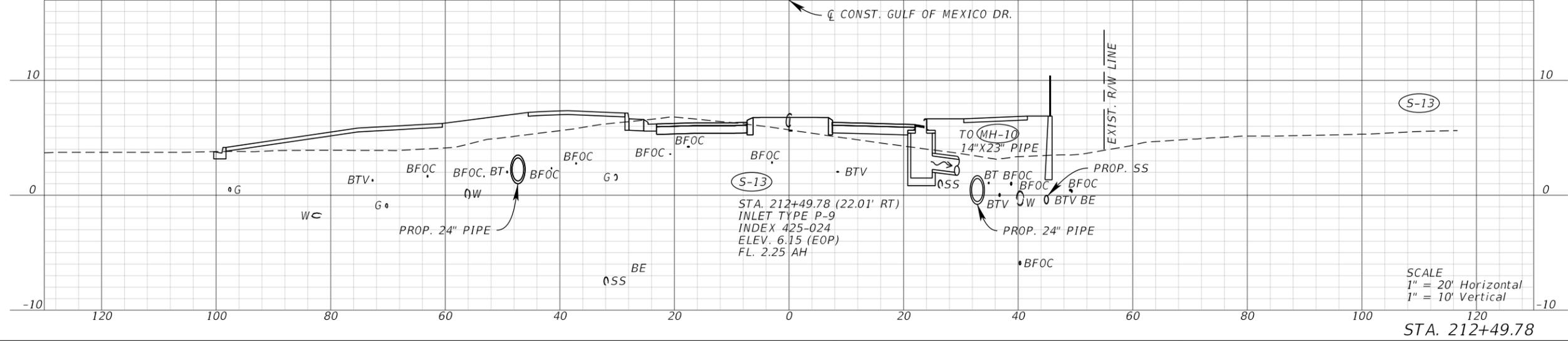
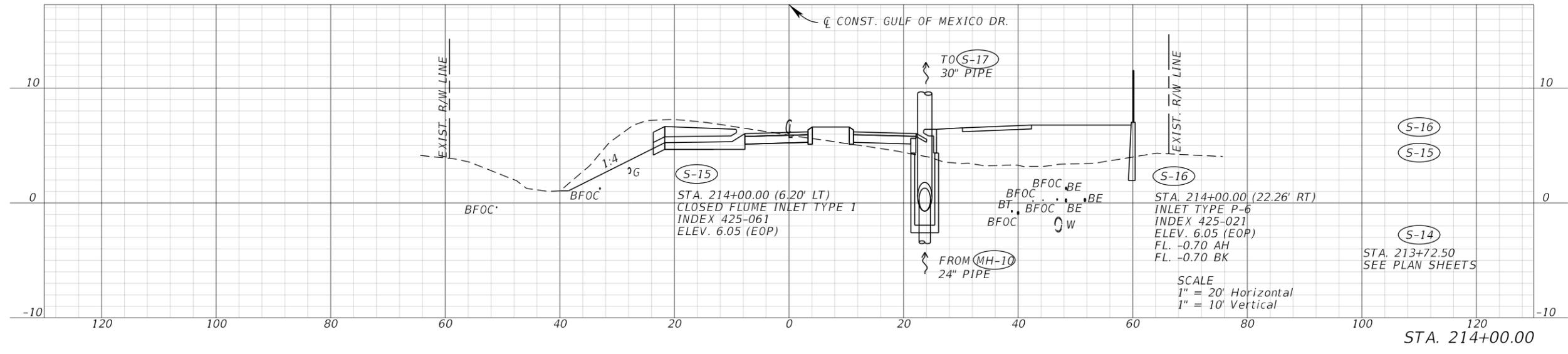
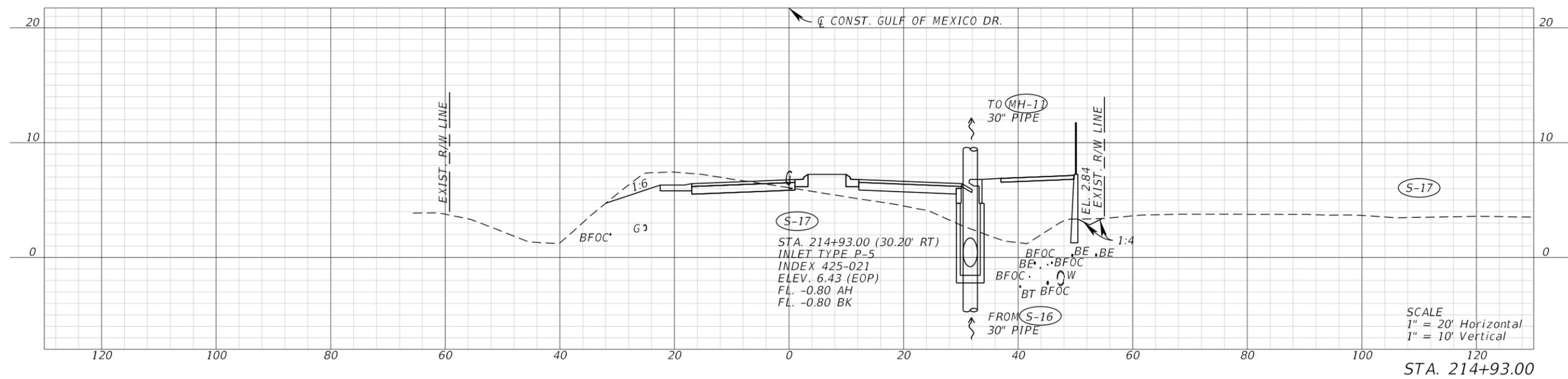
DRAINAGE STRUCTURES

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



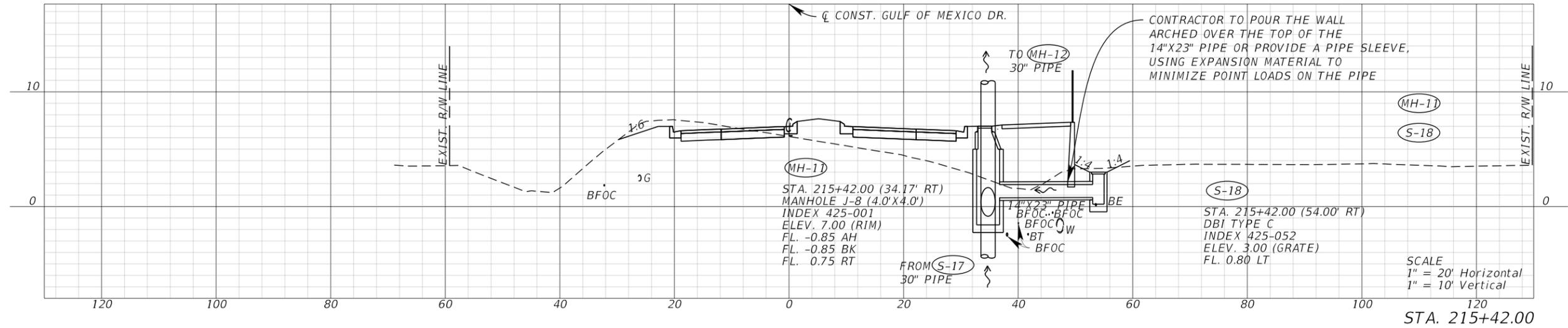
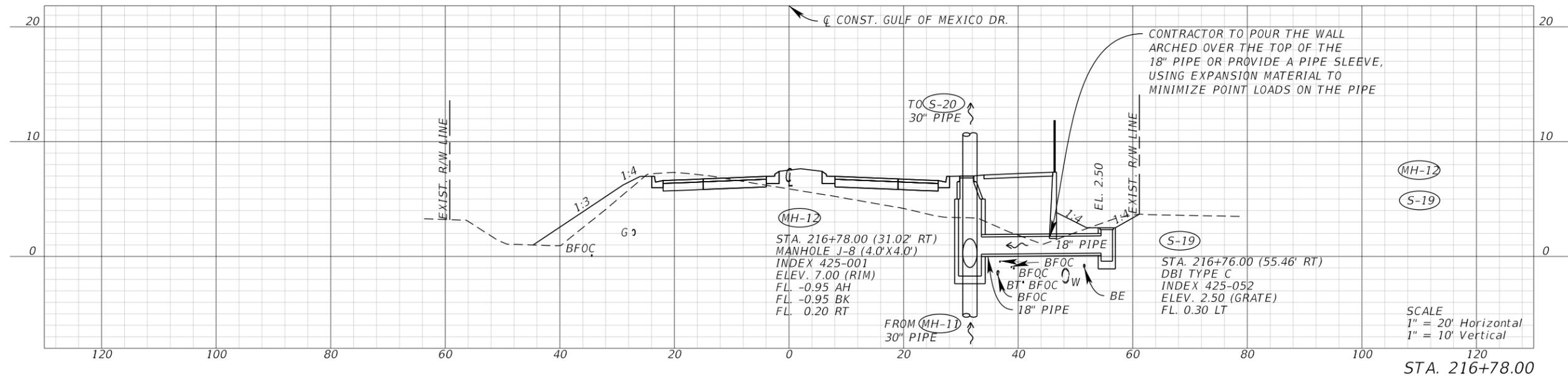
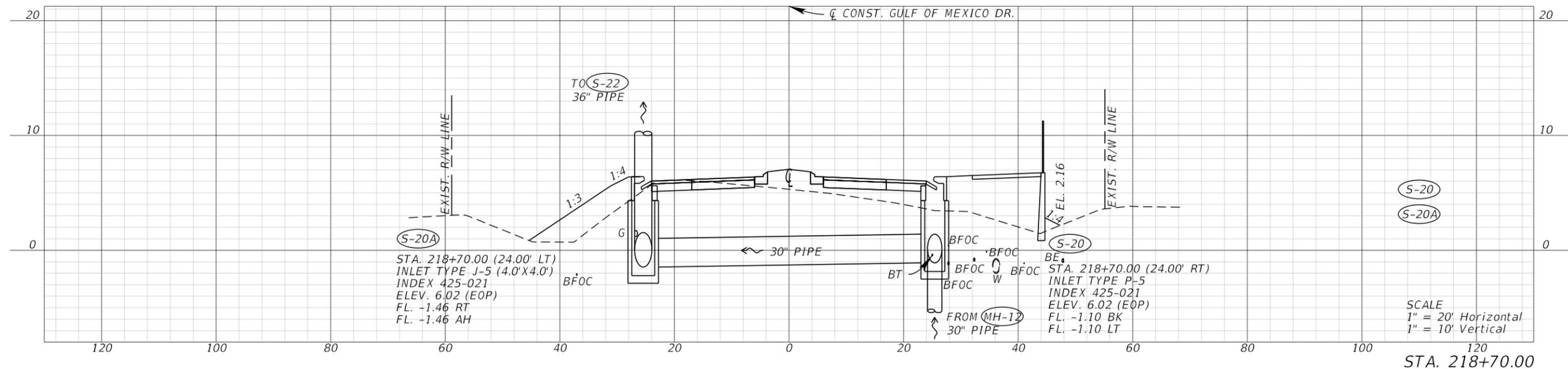
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 789	MANATEE	453730-1-52-01		30

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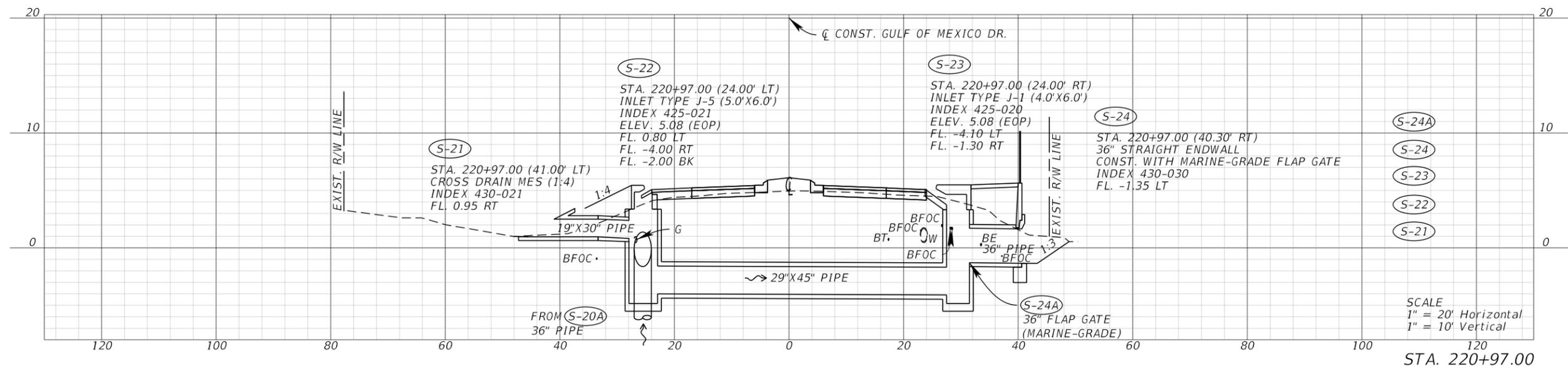
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 789	MANATEE	453730-1-52-01		32

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
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								SR 789	
DRAINAGE STRUCTURES									33

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SCALE
 1" = 20' Horizontal
 1" = 10' Vertical

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

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**MANATEE COUNTY
FLORIDA**

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

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

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)					ATTERBERG LIMITS (%)			DESCRIPTION	CORROSION TEST RESULTS						
	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	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

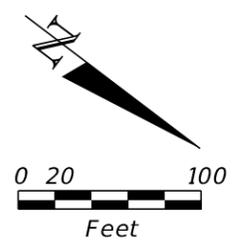
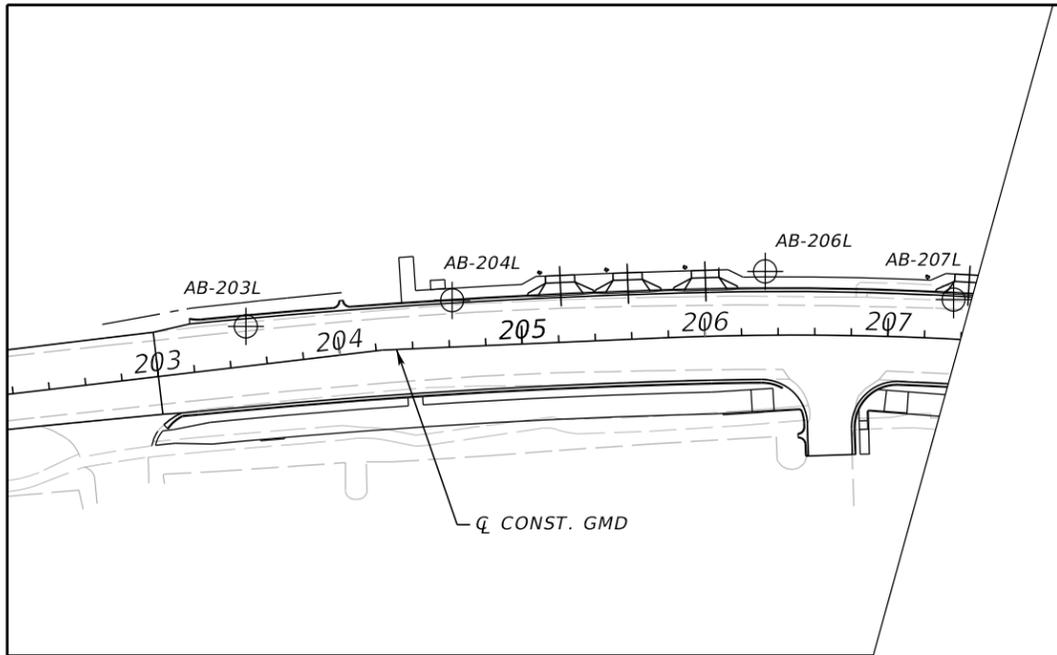
GNE - GROUNDWATER NOT ENCOUNTERED

NP - NON-PLASTIC

"--" INDICATES AN UNMEASURED PARAMETER

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY SOIL SURVEY	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DANIEL R. RUEL, P.E. LICENSE NUMBER: 82404 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							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:
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 WITH 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 WITH 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
Q CONST. GMD		CENTERLINE CONSTRUCTION OF GULF OF MEXICO DRIVE

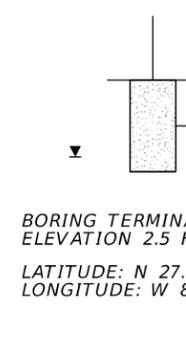
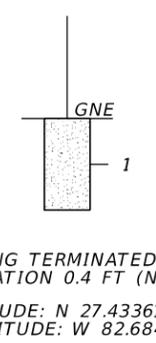
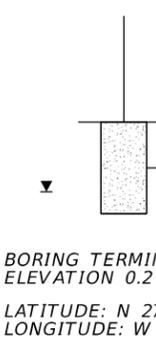
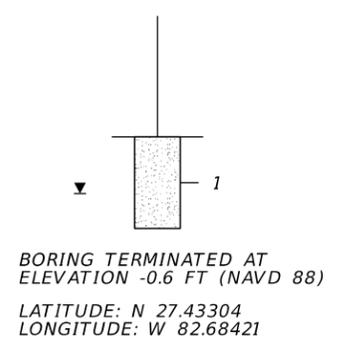
BORING LOCATION PLAN

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

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

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

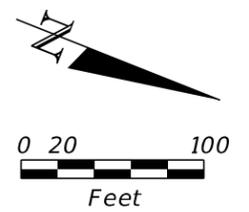
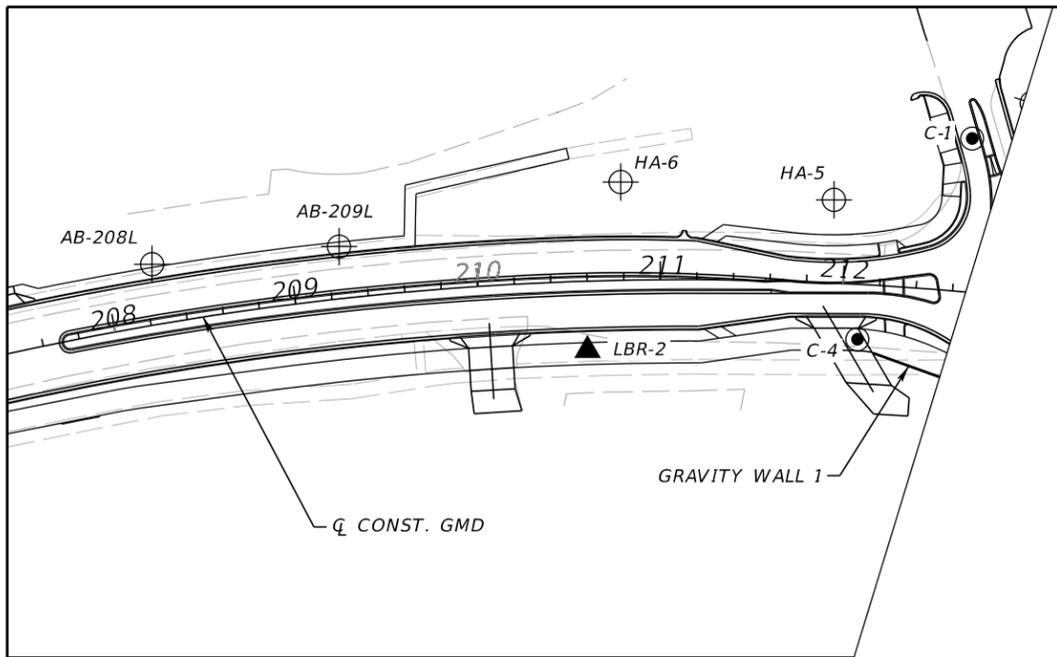
BOR # AB-207L
STA. 207+35
REF. Q CONST. GMD
OFF. 22' LT.
ELEV. 7.5
DATE 4/5/2025



	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				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				DANIEL R. RUEL, P.E. LICENSE NUMBER: 82404 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637		SR 789	MANATEE	453730-1-52-01	36
REPORT OF CORE BORINGS (1)									

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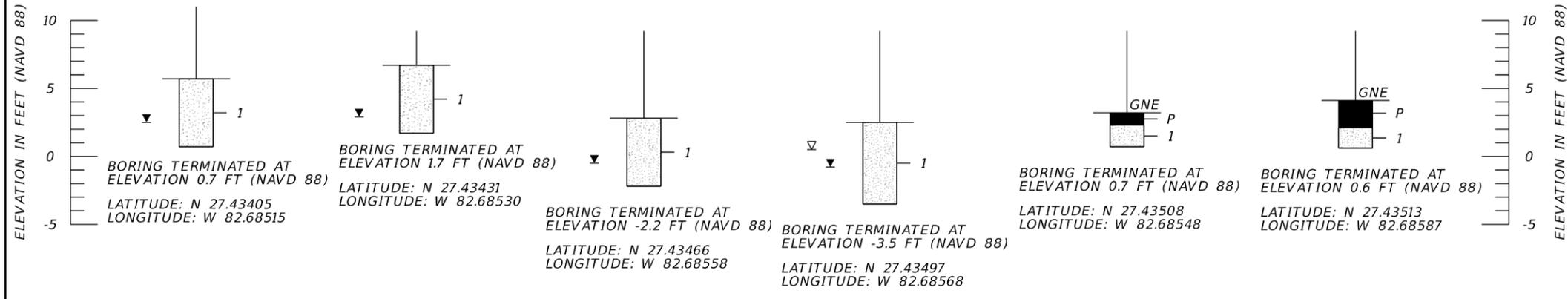
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 - 4 [Pattern] PALE BROWN TO BROWN SANDY SILT, OCCASIONALLY WITH SHELL FRAGMENTS (A-4)
 - P [Pattern] ASPHALT PAVEMENT AND BASE MATERIAL
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION 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
- Q CONST. GMD CENTERLINE CONSTRUCTION OF GULF OF MEXICO DRIVE

BORING LOCATION PLAN

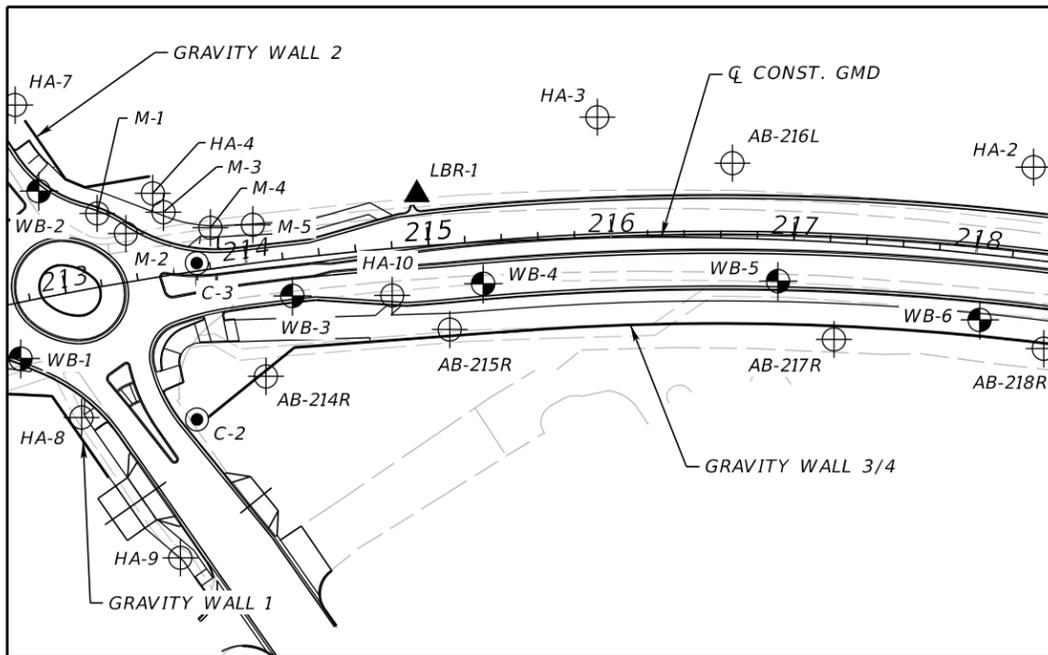
BOR # STA. REF. OFF. ELEV. DATE	AB-208L 208+26 Q CONST. GMD 33' LT. 5.7 4/5/2025	BOR # STA. REF. OFF. ELEV. DATE	AB-209L 209+27 Q CONST. GMD 28' LT. 6.7 4/5/2025	BOR # STA. REF. OFF. ELEV. DATE	HA-6 210+79 Q CONST. GMD 54' LT. 2.8 12/3/2021	BOR # STA. REF. OFF. ELEV. DATE	HA-5 211+93 Q CONST. GMD 45' LT. 2.5 12/3/2021	BOR # STA. REF. OFF. ELEV. DATE	C-4 212+09 Q CONST. GMD 30' RT. 3.2 11/9/2021	BOR # STA. REF. OFF. ELEV. DATE	C-1 212+63 Q CONST. GMD 84' LT. 4.1 11/9/2021
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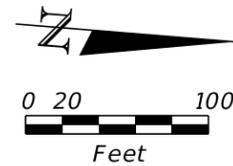
	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
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VERY STIFF	15 to 30	12 to 24
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<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> <th colspan="2">ENGINEER OF RECORD</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS		ENGINEER OF RECORD		DATE	DESCRIPTION	DATE	DESCRIPTION					<p align="center">STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>SR 789</td> <td>MANATEE</td> <td>453730-1-52-01</td> </tr> </table>			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 789	MANATEE	453730-1-52-01	<p align="center">REPORT OF CORE BORINGS (2)</p>	SHEET NO.
REVISIONS		ENGINEER OF RECORD																								
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<p align="center">DANIEL R. RUEL, P.E. LICENSE NUMBER: 82404 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637</p>				37																						

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BORING LOCATION PLAN



NOTE:

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- 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
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- APPROXIMATE PAVEMENT CORE LOCATION
- ▲ APPROXIMATE LBR SAMPLE LOCATION
- ⊔ CONST. GMD CENTERLINE CONSTRUCTION OF GULF OF MEXICO DRIVE

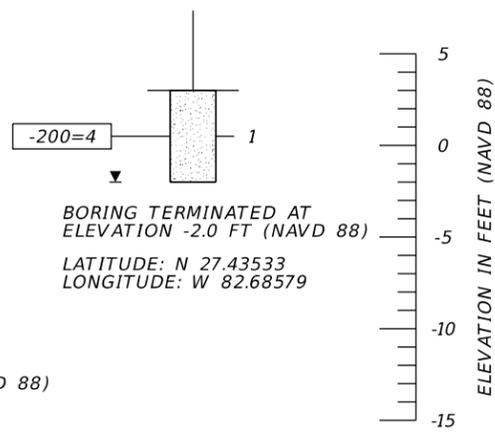
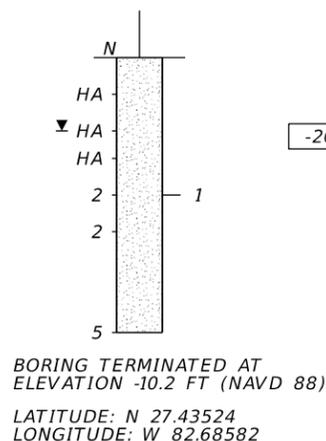
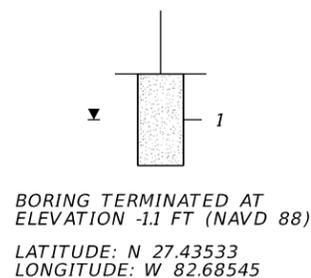
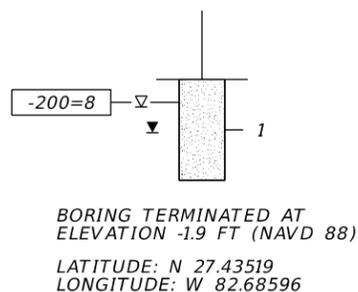
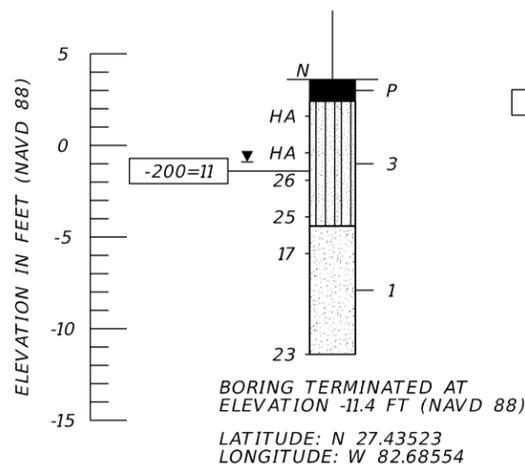
BOR # WB-1
 STA. 212+68
 REF. Ⓢ CONST. GMD
 OFF. 30' RT.
 ELEV. 3.6
 DATE 5/7/2025
 DRILLER R. SCRUGGS
 HAMMER AUTOMATIC
 RIG D-25

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

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

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

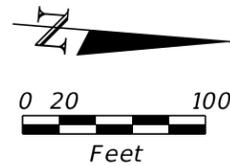
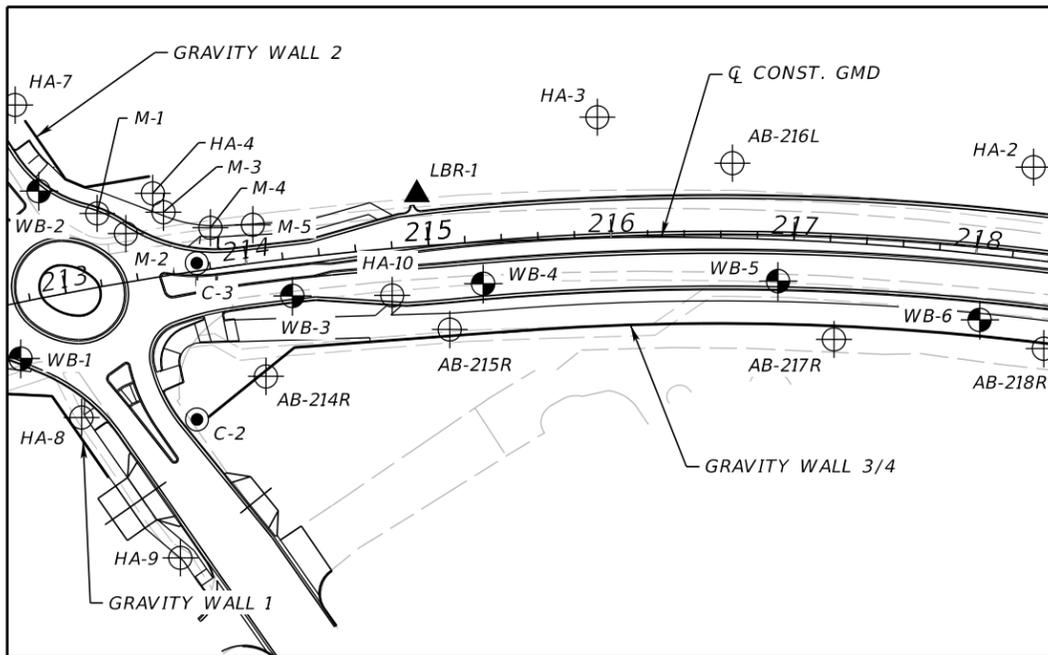
BOR # M-1
 STA. 213+24
 REF. Ⓢ CONST. GMD
 OFF. 40' LT.
 ELEV. 3.0
 DATE 4/5/2025



	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
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FIRM	4 to 8	3 to 6
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VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				DANIEL R. RUEL, P.E. LICENSE NUMBER: 82404 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637		SR 789	MANATEE	453730-1-52-01	38
REPORT OF CORE BORINGS (3)									

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NOTE:

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BORING LOCATION PLAN

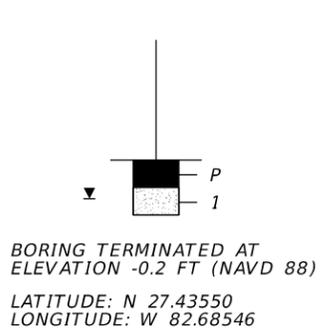
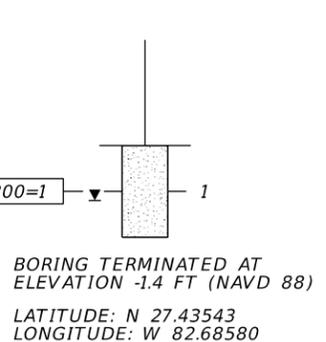
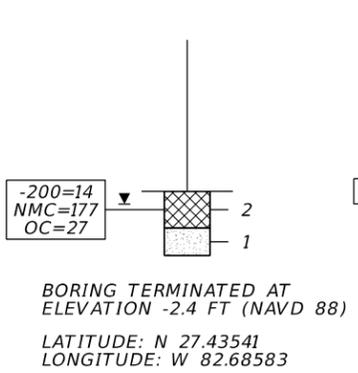
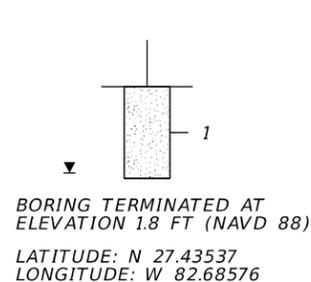
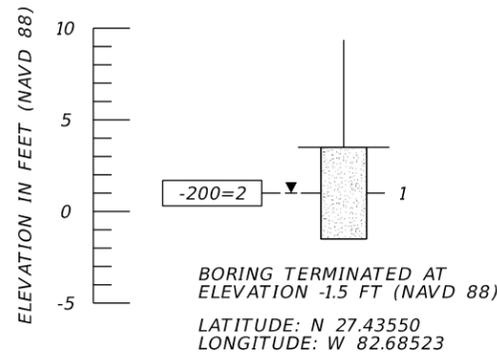
BOR # HA-9
 STA. 213+38
 REF. ⊔ CONST. GMD
 OFF. 153' RT.
 ELEV. 3.5
 DATE 12/3/2021

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

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

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

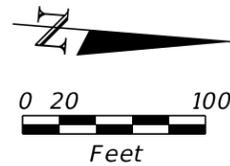
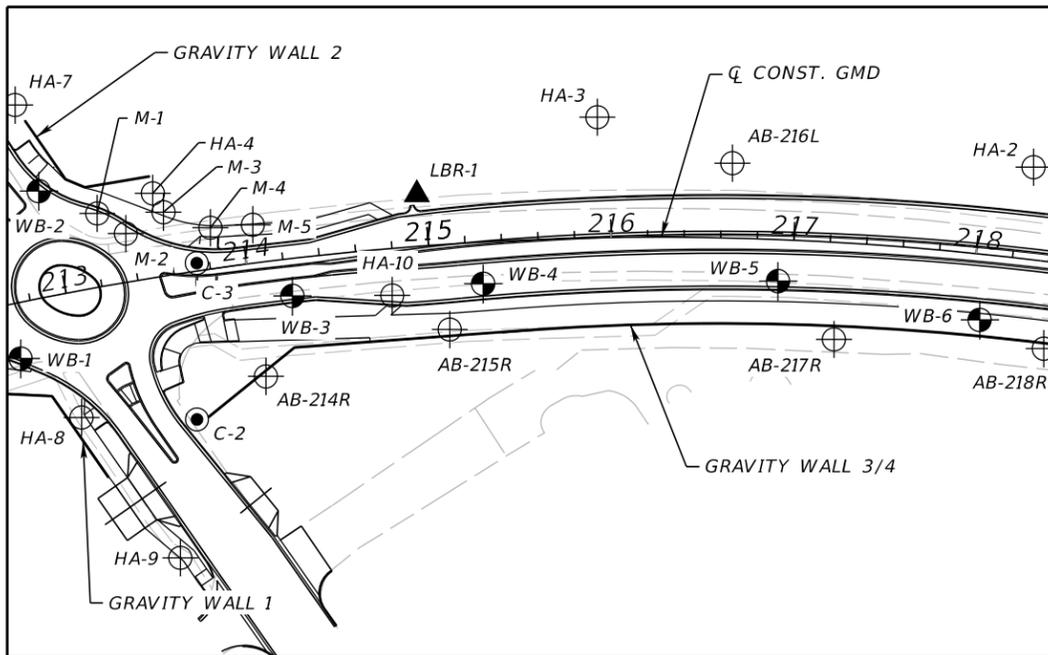
BOR # C-2
 STA. 213+60
 REF. ⊔ CONST. GMD
 OFF. 80' RT.
 ELEV. 2.8
 DATE 11/9/2021



	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				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DANIEL R. RUEL, P.E. LICENSE NUMBER: 82404 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR 789	MANATEE	453730-1-52-01	
REPORT OF CORE BORINGS (4)										39

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



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 [Pattern] PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SAND TO SAND WITH SILT, OCCASIONALLY WITH SHELL FRAGMENTS (A-1-b/A-3)
- 2 [Pattern] ORGANIC SILTY SAND (A-8)
- 3 [Pattern] PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SILTY SAND, OCCASIONALLY WITH SHELL FRAGMENTS (A-2-4)
- 4 [Pattern] PALE BROWN TO BROWN SANDY SILT, OCCASIONALLY WITH SHELL FRAGMENTS (A-4)
- P [Pattern] 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

BORING LOCATION PLAN

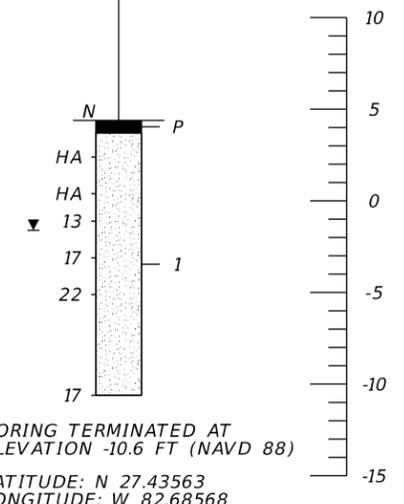
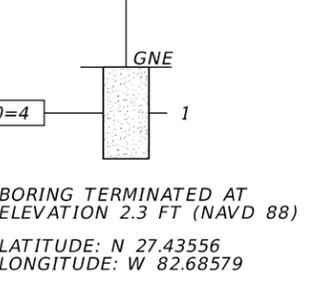
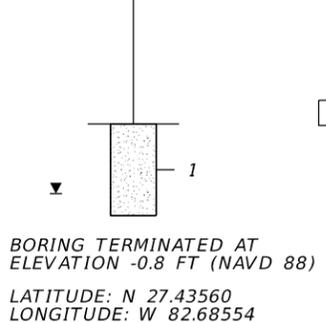
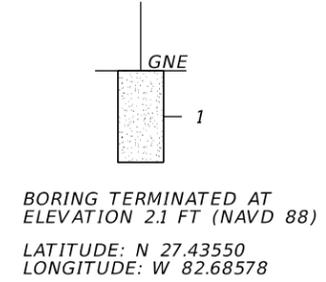
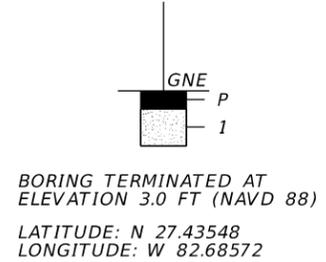
BOR # C-3
 STA. 213+73
 REF. ☒ CONST. GMD
 OFF. 4' LT.
 ELEV. 6.0
 DATE 11/9/2021

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

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

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

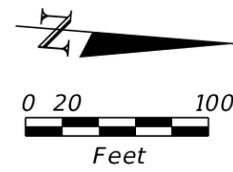
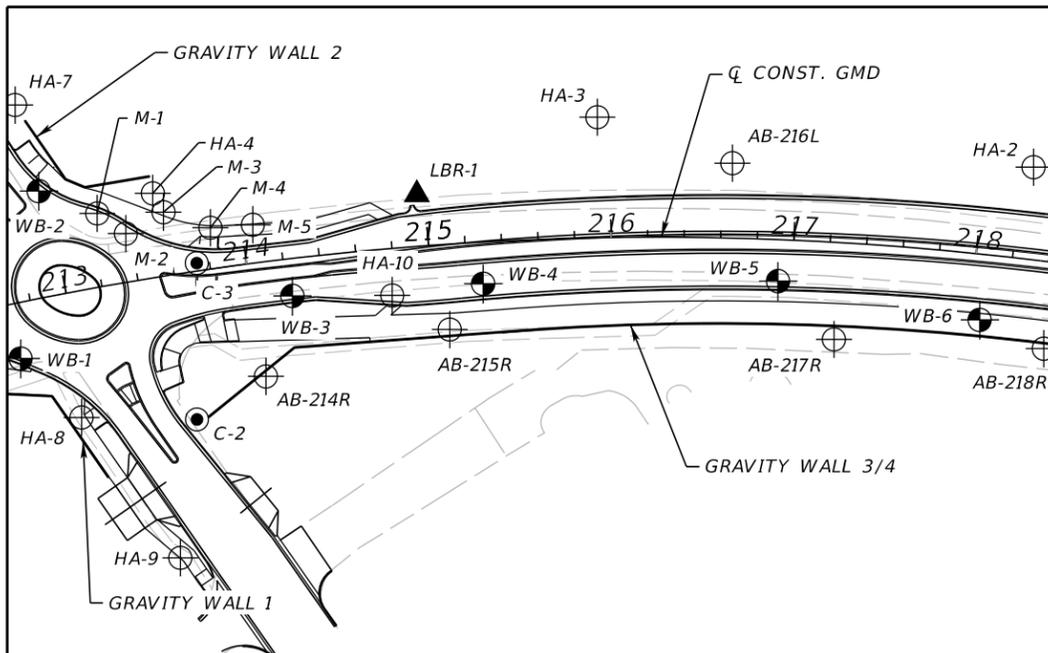
BOR # WB-3
 STA. 214+23
 REF. ☒ CONST. GMD
 OFF. 20' RT.
 ELEV. 4.4
 DATE 5/7/2025
 DRILLER R. SCRUGGS
 HAMMER AUTOMATIC
 RIG D-25



	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				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DANIEL R. RUEL, P.E. LICENSE NUMBER: 82404 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR 789	MANATEE	453730-1-52-01	
REPORT OF CORE BORINGS (5)										40

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



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.

BORING LOCATION PLAN

LEGEND

1		PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SAND TO SAND WITH SILT, OCCASIONALLY WITH 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 WITH 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
Q CONST. GMD		CENTERLINE CONSTRUCTION OF GULF OF MEXICO DRIVE

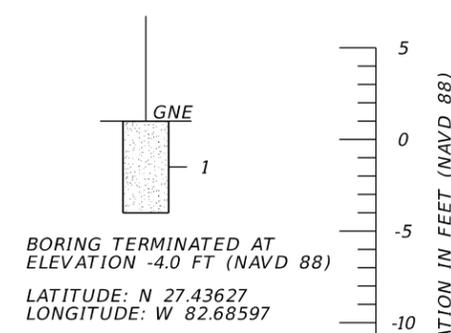
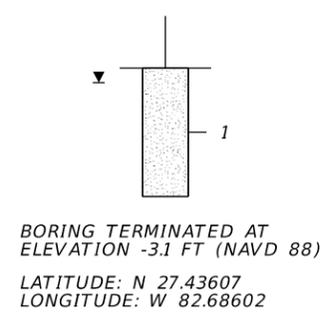
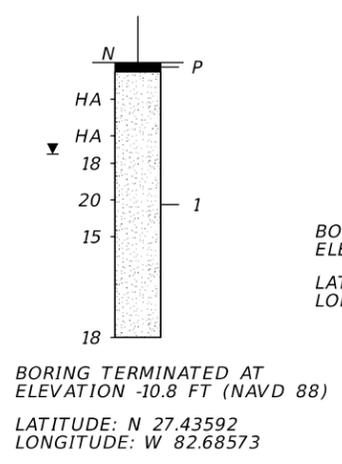
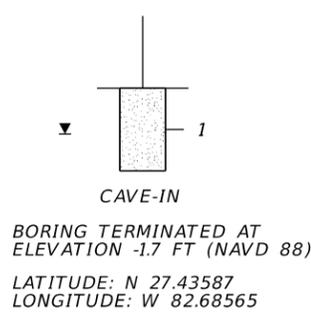
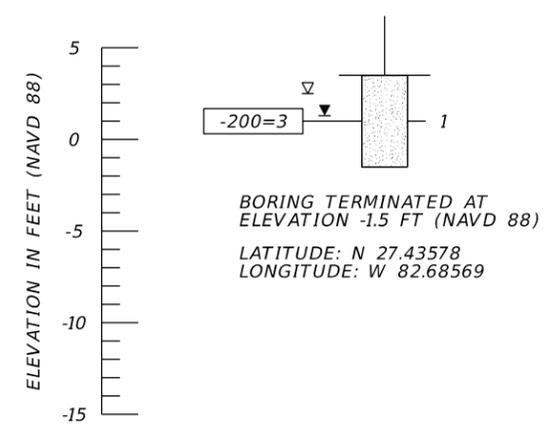
BOR # HA-10
STA. 214+78
REF. Q CONST. GMD
OFF. 26' RT.
ELEV. 3.5
DATE 12/3/2021

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

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

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

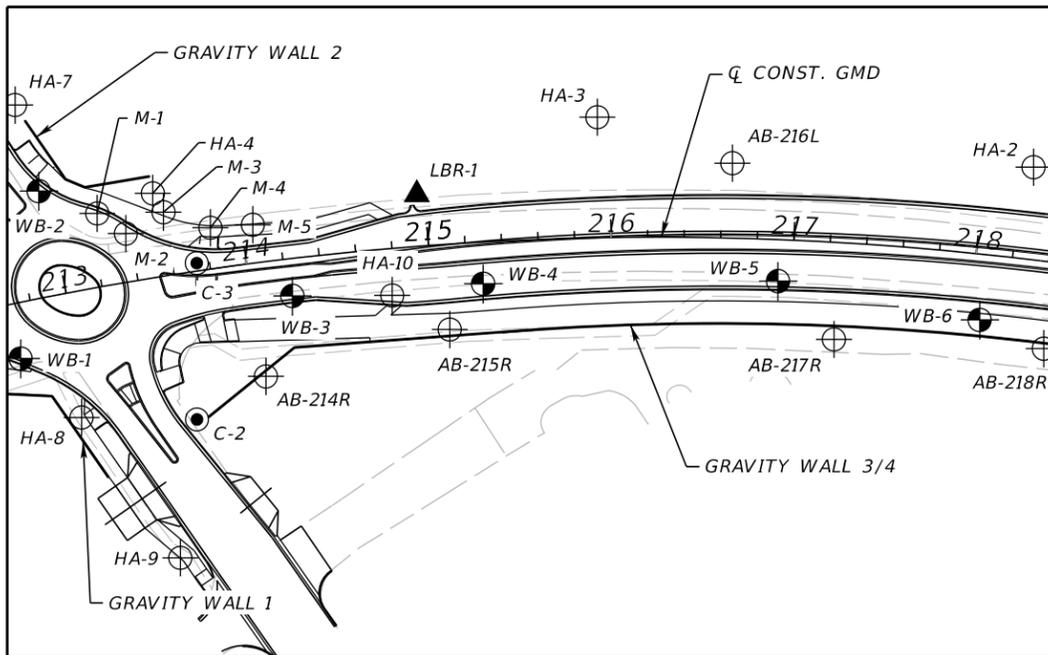
BOR # AB-216L
STA. 216+65
REF. Q CONST. GMD
OFF. 41' LT.
ELEV. 1.0
DATE 4/5/2025



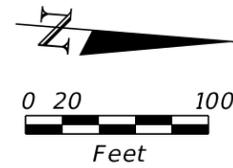
	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (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				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DANIEL R. RUEL, P.E. LICENSE NUMBER: 82404 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 789	MANATEE	453730-1-52-01	
REPORT OF CORE BORINGS (6)									41

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



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 [Pattern] PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SAND TO SAND WITH SILT, OCCASIONALLY WITH SHELL FRAGMENTS (A-1-b/A-3)
- 2 [Pattern] ORGANIC SILTY SAND (A-8)
- 3 [Pattern] PALE BROWN TO DARK BROWN TO LIGHT GRAY TO DARK GRAY SILTY SAND, OCCASIONALLY WITH SHELL FRAGMENTS (A-2-4)
- 4 [Pattern] PALE BROWN TO BROWN SANDY SILT, OCCASIONALLY WITH SHELL FRAGMENTS (A-4)
- P [Pattern] 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

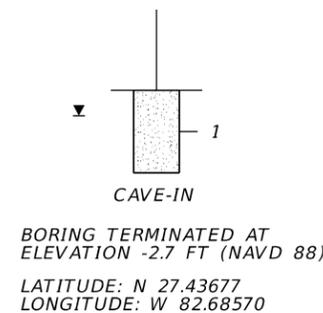
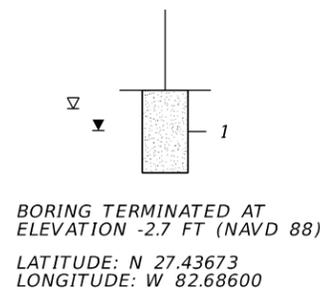
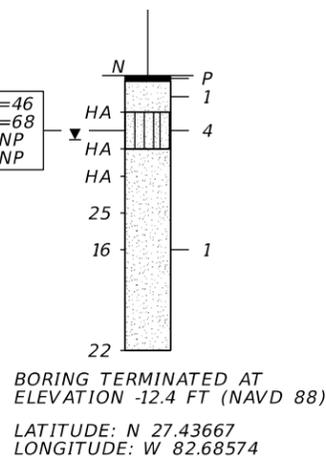
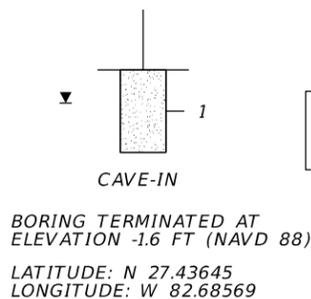
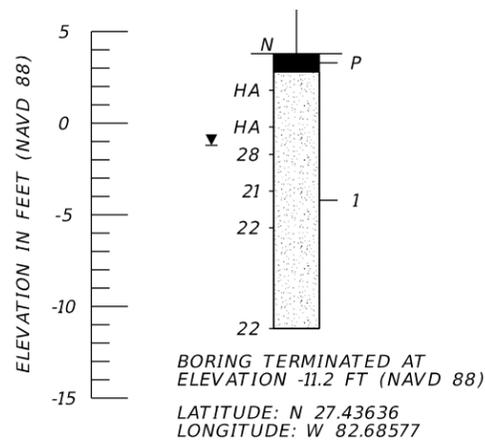
BOR # WB-5
 STA. 216+92
 REF. ⊥ CONST. GMD
 OFF. 23' RT.
 ELEV. 3.8
 DATE 5/7/2025
 DRILLER R. SCRUGGS
 HAMMER AUTOMATIC
 RIG D-25

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

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

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

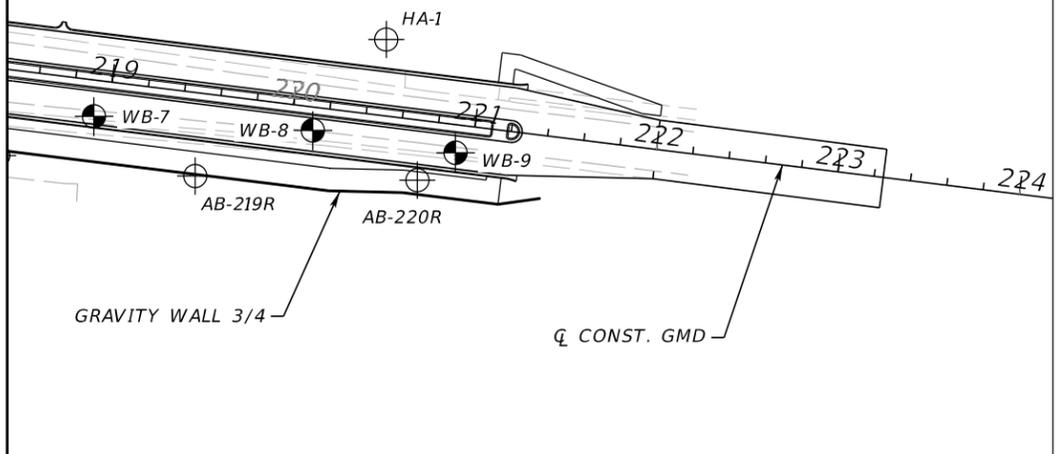
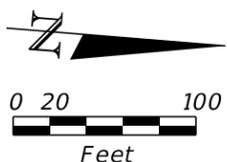
BOR # AB-218R
 STA. 218+43
 REF. ⊥ CONST. GMD
 OFF. 47' RT.
 ELEV. 1.8
 DATE 5/7/2025



	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				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				DANIEL R. RUEL, P.E. LICENSE NUMBER: 82404 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637		SR 789	MANATEE	453730-1-52-01	42
REPORT OF CORE BORINGS (7)									

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

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 WITH 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 WITH 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.

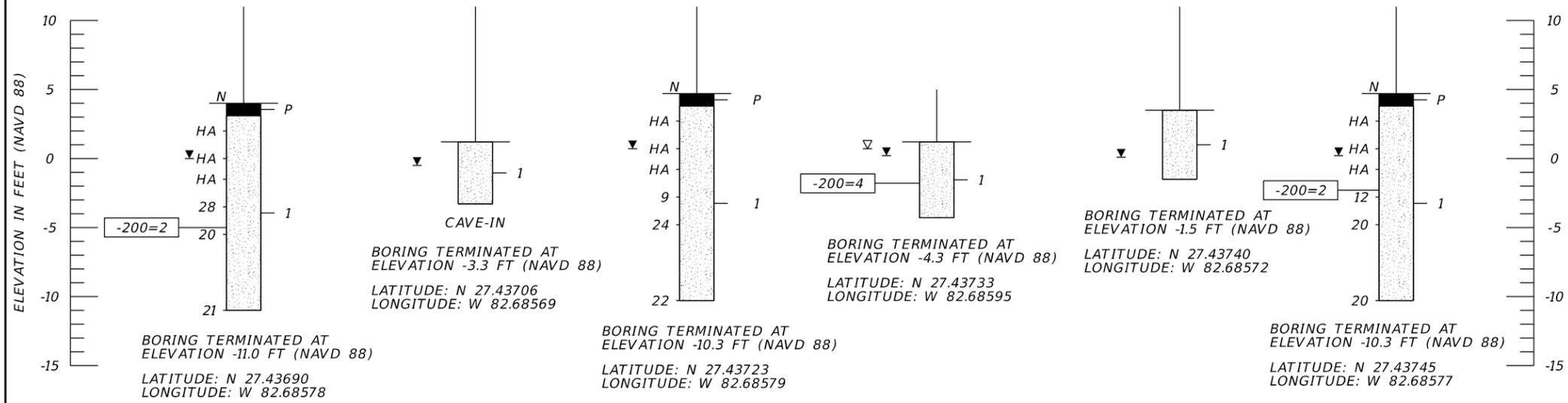
-200 PERCENT PASSING #200 SIEVE
 NMC NATURAL MOISTURE CONTENT (%)
 LL LIQUID LIMIT (%)
 PI PLASTICITY INDEX (%)
 OC ORGANIC CONTENT (%)
 NP NON-PLASTIC

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

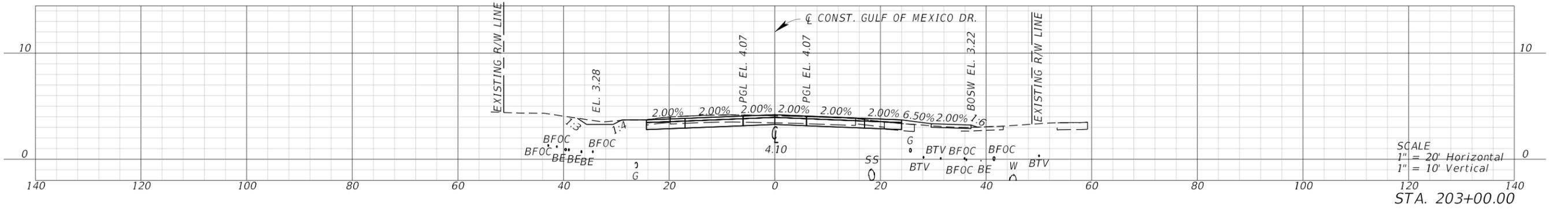
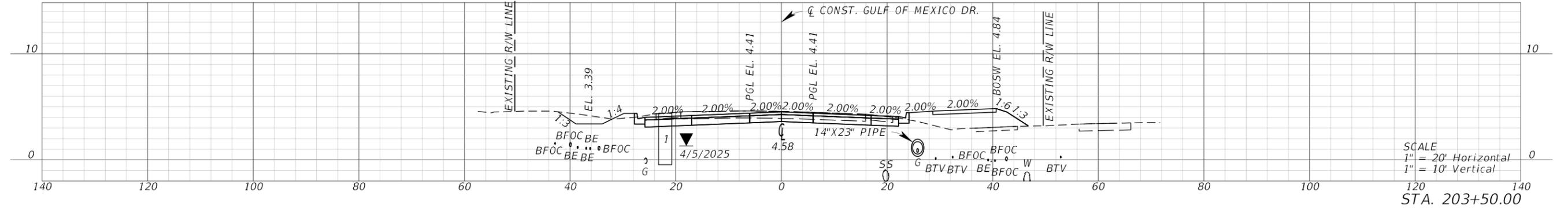
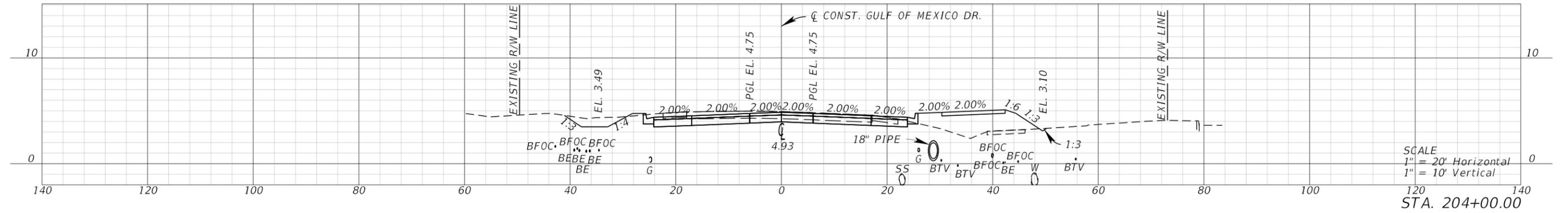
BOR # WB-7 STA. 218+92 REF. Q CONST. GMD OFF. 20' RT. ELEV. 4.0 DATE 5/7/2025 DRILLER M. ATKINSON HAMMER AUTOMATIC RIG D-25	BOR # AB-219R STA. 219+51 REF. Q CONST. GMD OFF. 45' RT. ELEV. 1.2 DATE 5/7/2025 DRILLER M. ATKINSON HAMMER AUTOMATIC RIG D-25	BOR # WB-8 STA. 220+12 REF. Q CONST. GMD OFF. 13' RT. ELEV. 4.7 DATE 5/7/2025 DRILLER M. ATKINSON HAMMER AUTOMATIC RIG D-25	BOR # HA-1 STA. 220+46 REF. Q CONST. GMD OFF. 41' LT. ELEV. 1.2 DATE 12/3/2021	BOR # AB-220R STA. 220+72 REF. Q CONST. GMD OFF. 33' RT. ELEV. 3.5 DATE 5/7/2025	BOR # WB-9 STA. 220+91 REF. Q CONST. GMD OFF. 15' RT. ELEV. 4.7 DATE 5/7/2025 DRILLER M. ATKINSON HAMMER AUTOMATIC RIG D-25
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	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				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DANIEL R. RUEL, P.E. LICENSE NUMBER: 82404 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR 789	MANATEE	453730-1-52-01	
REPORT OF CORE BORINGS (8)										43

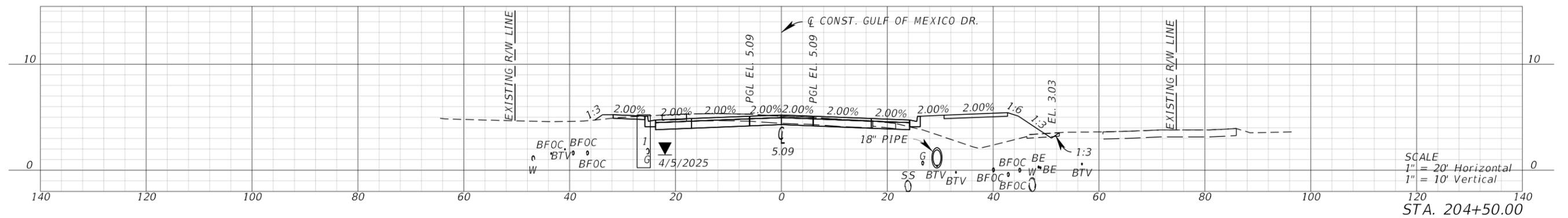
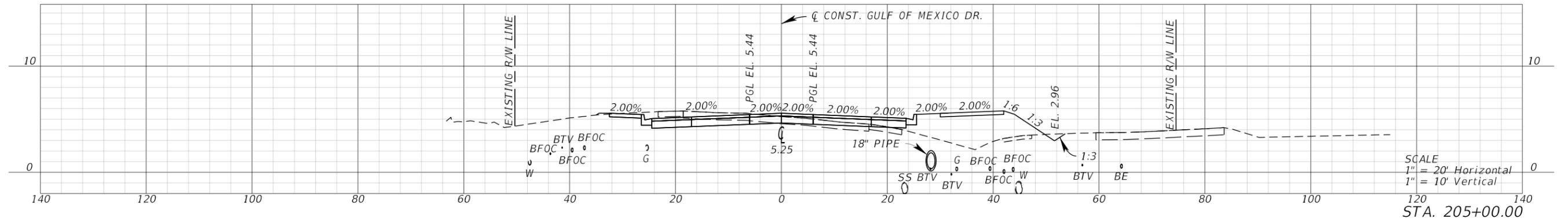
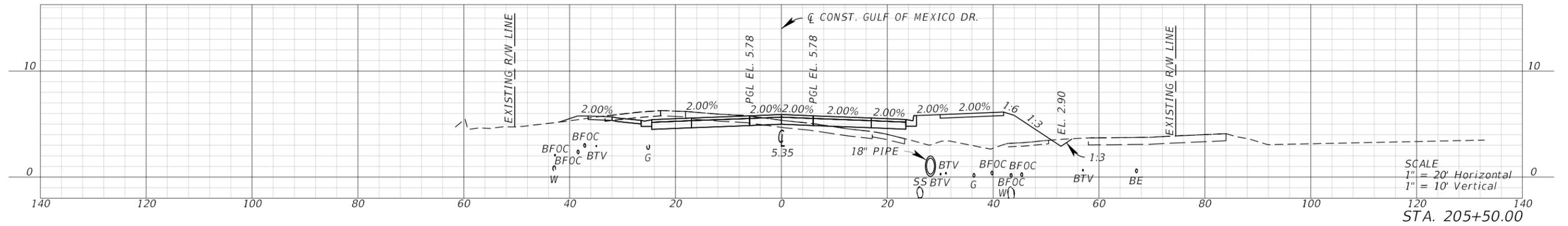
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



BEGIN PROJECT 200+80.00
 BEGIN EARTHWORK 203+00.00

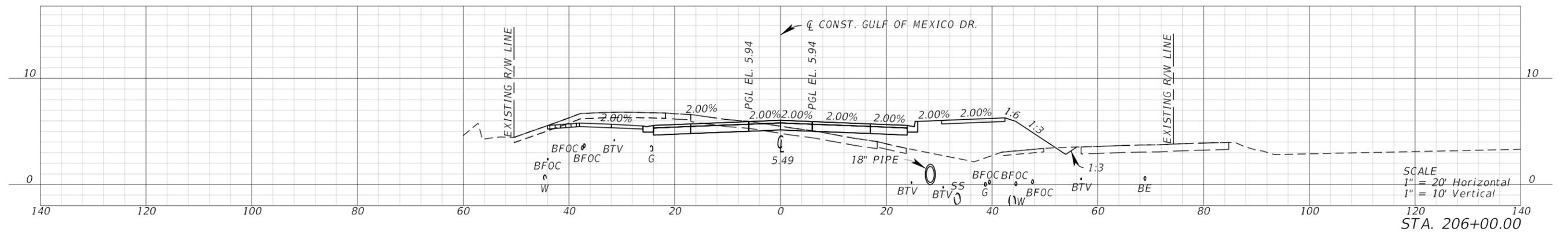
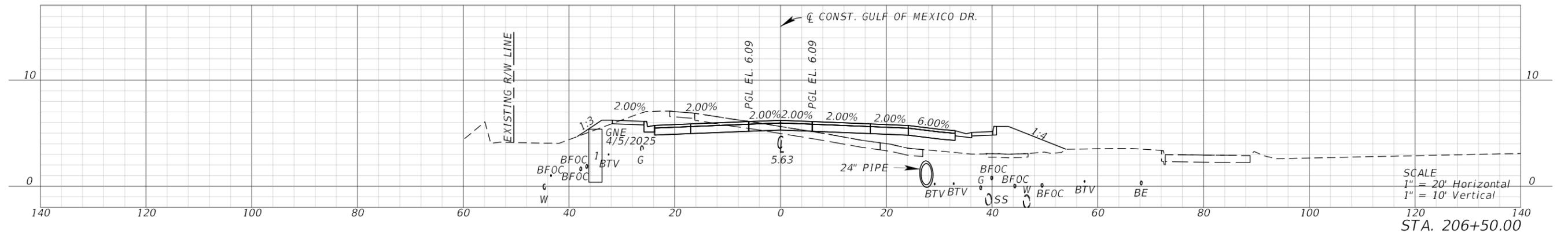
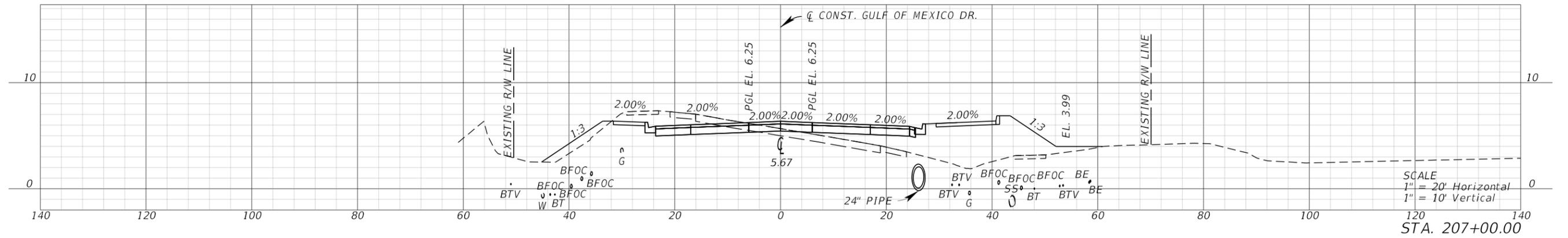
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DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR 789	MANATEE	453730-1-52-01	
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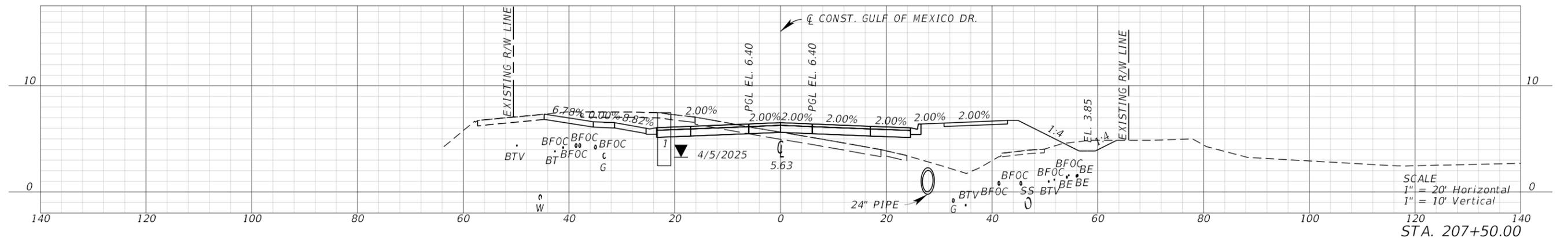
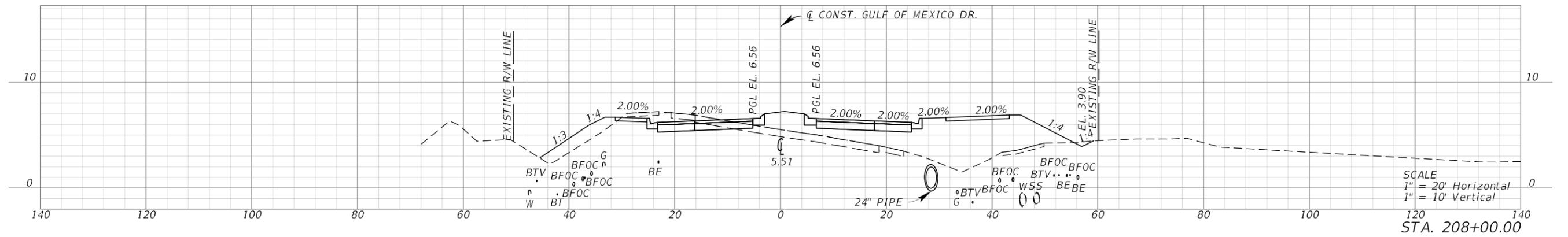
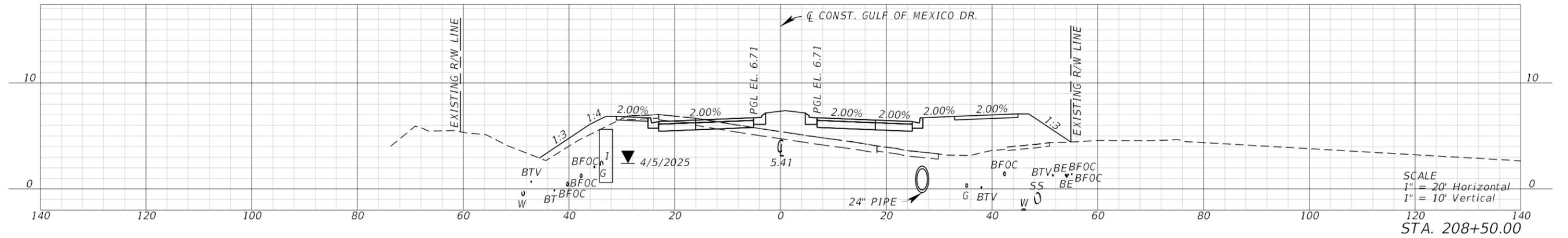
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DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR 789	MANATEE	453730-1-52-01	
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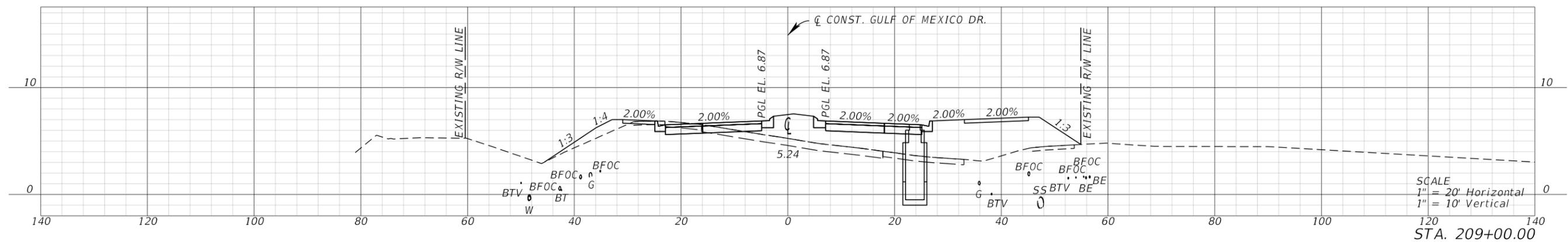
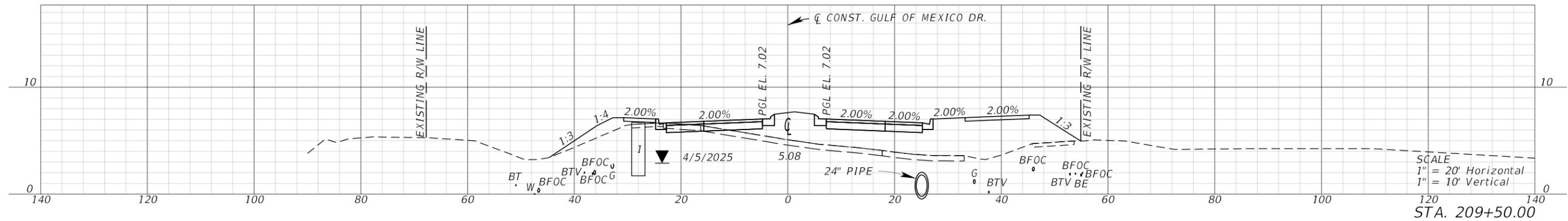
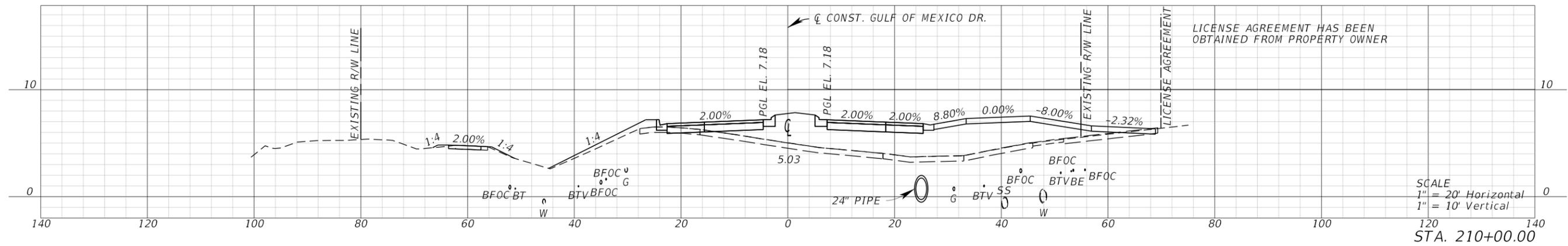
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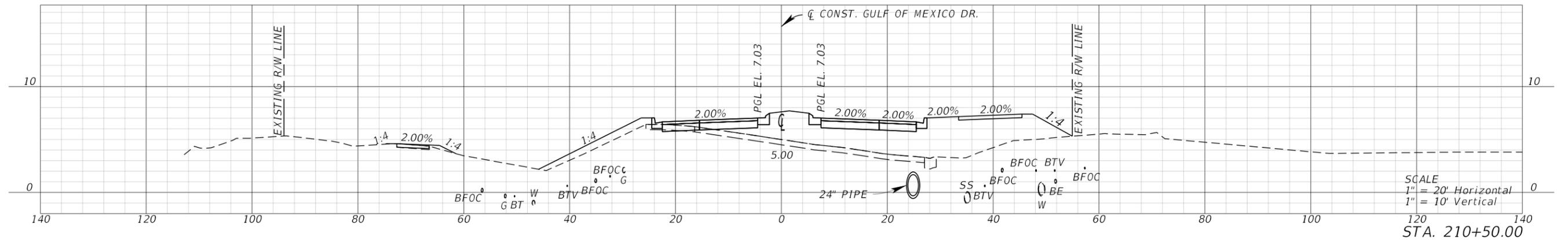
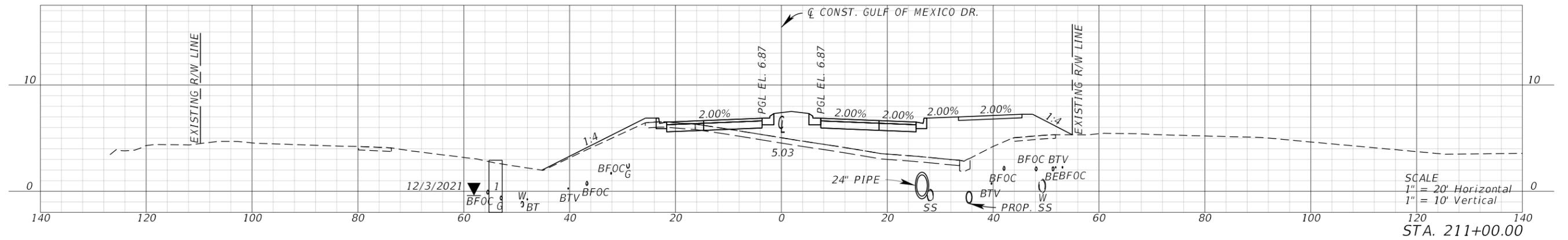
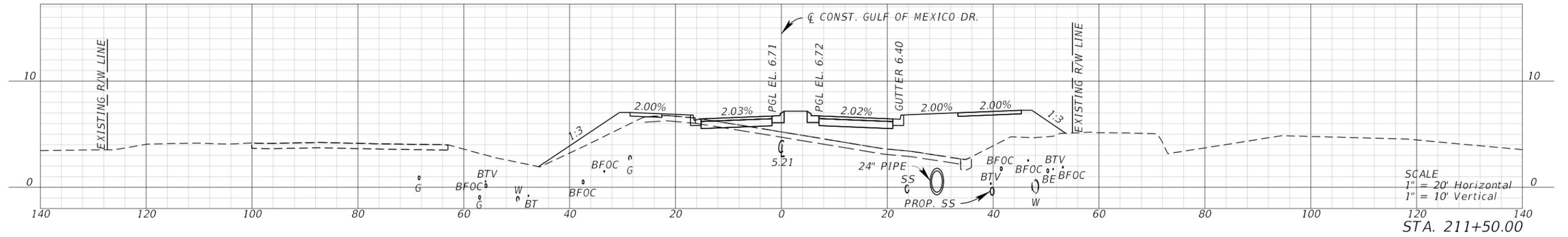
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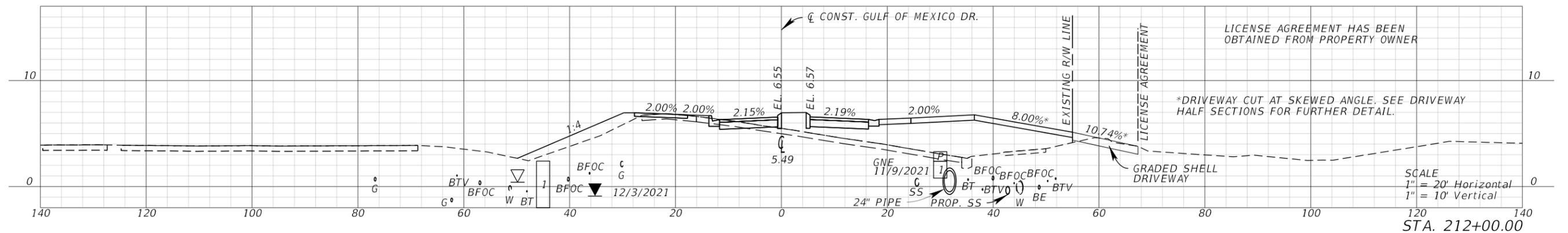
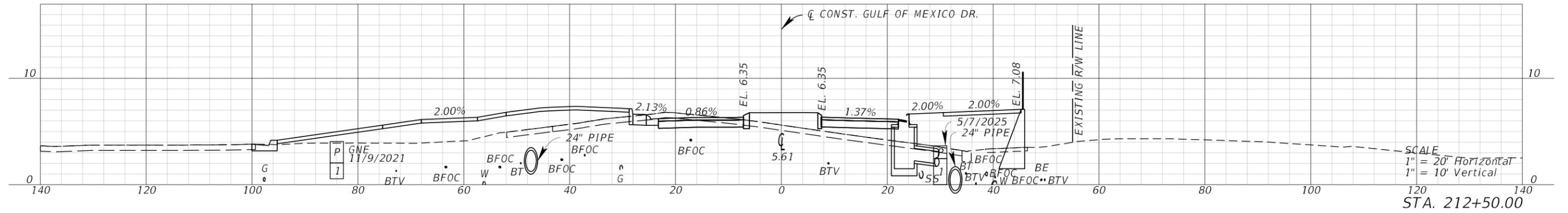
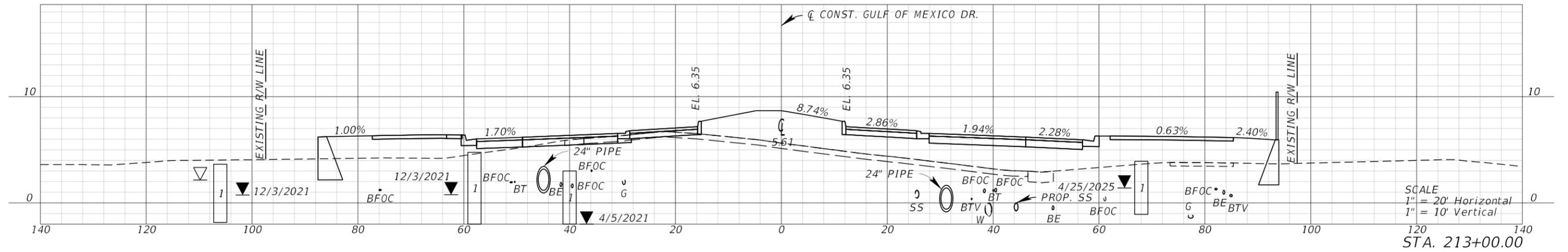
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							SR 789	MANATEE	453730-1-52-01	
							48			

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							49			

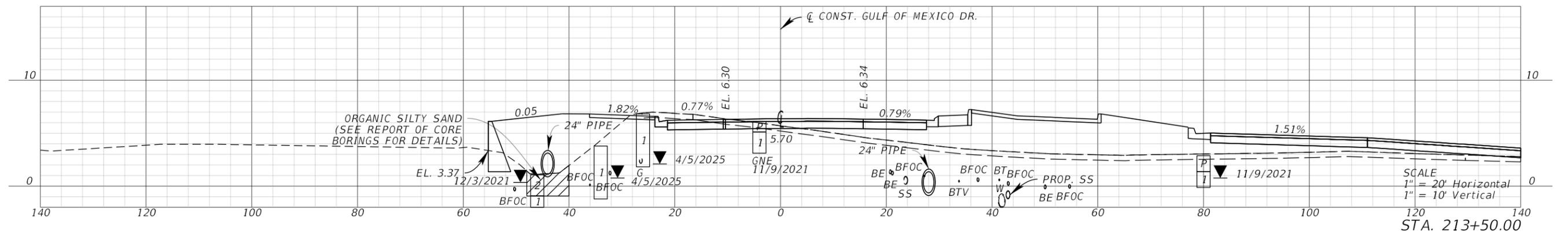
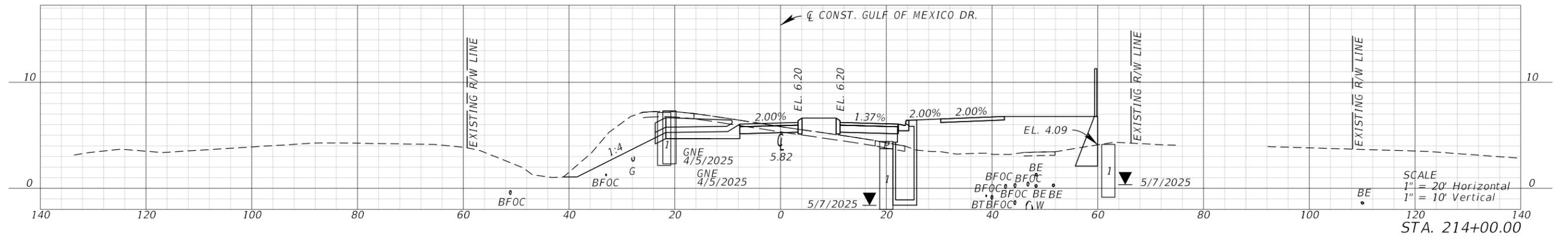
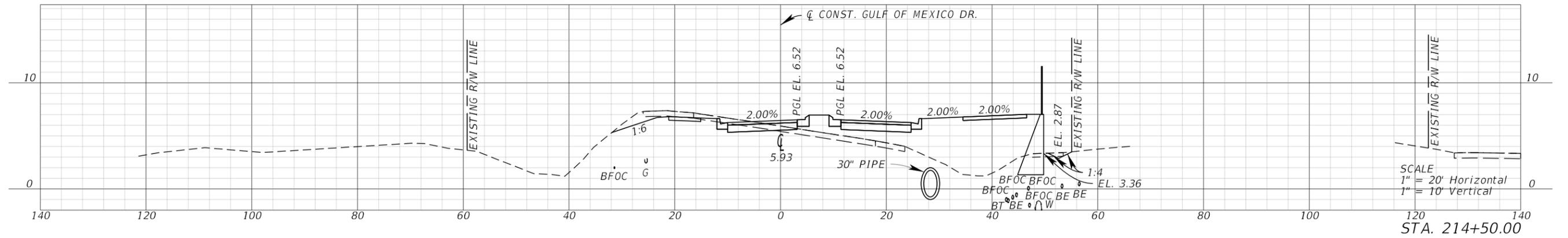
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							SR 789	MANATEE	453730-1-52-01	

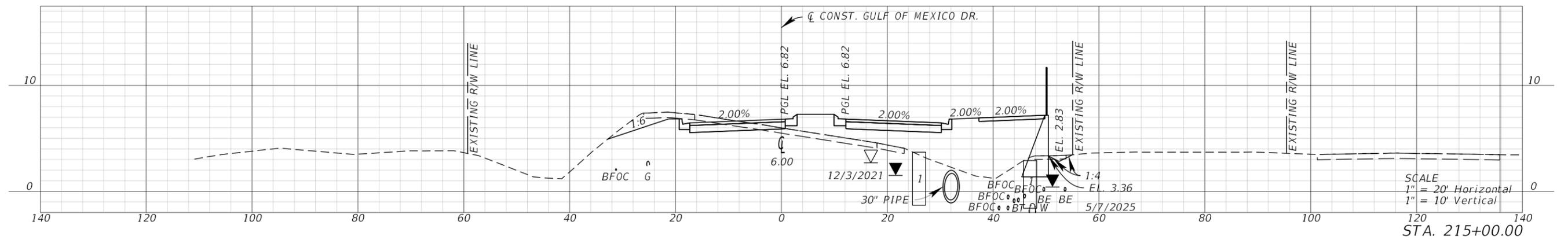
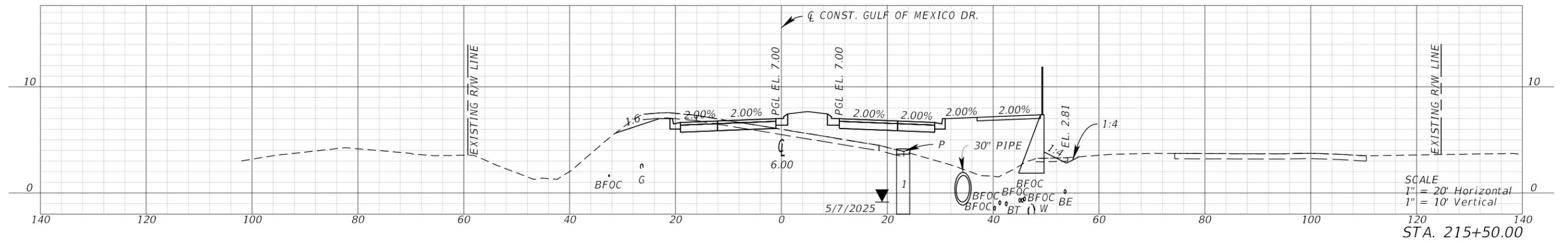
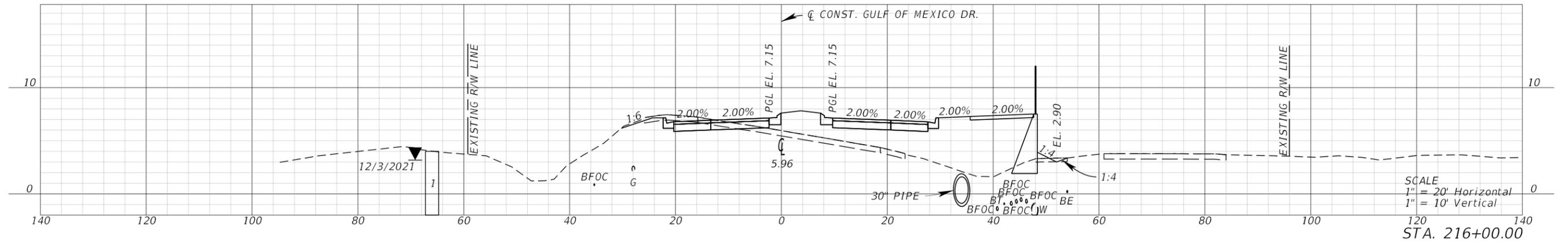
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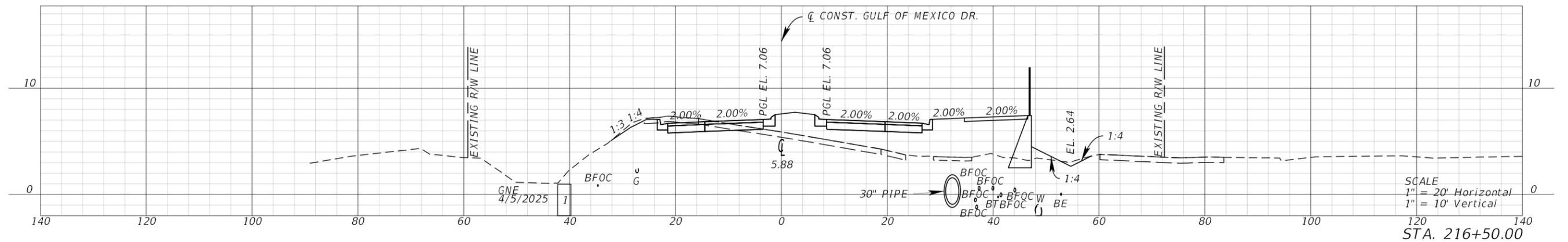
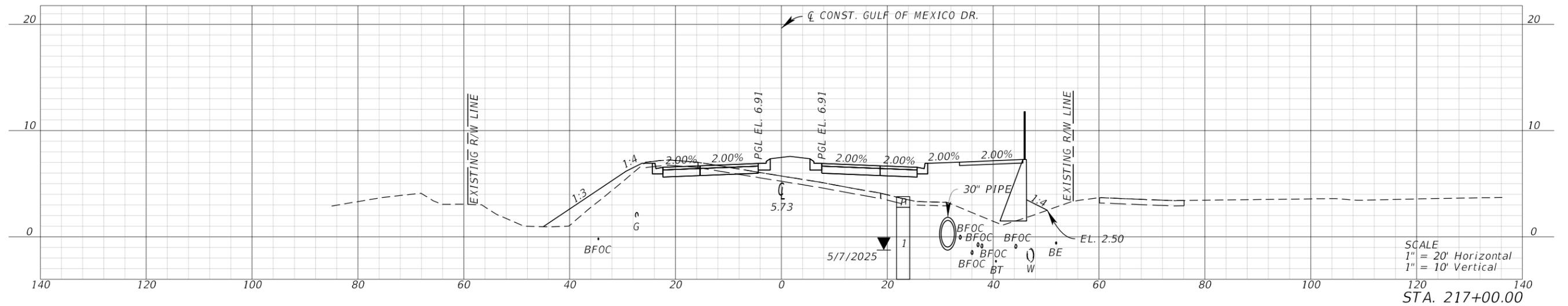
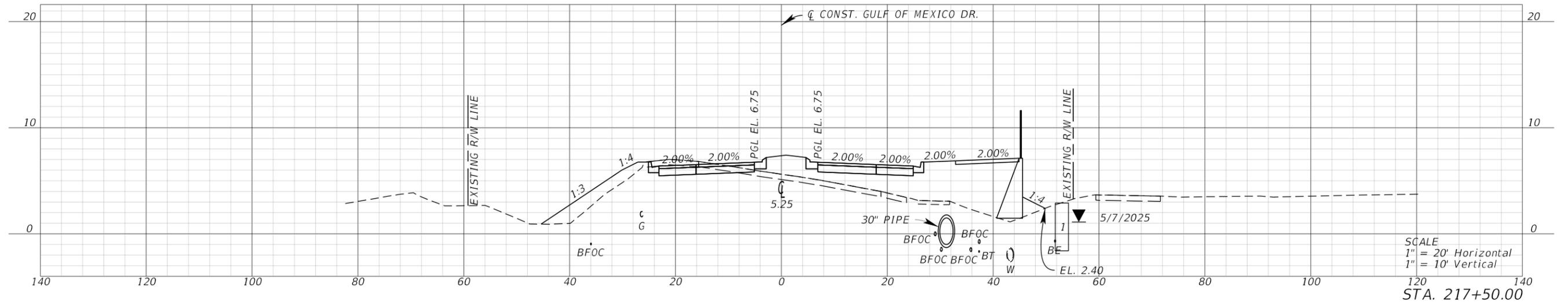
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								SR 789	
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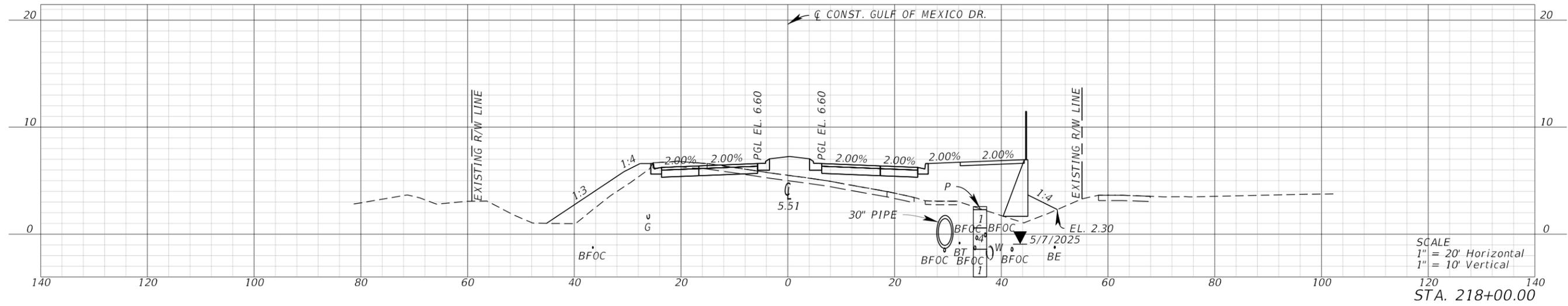
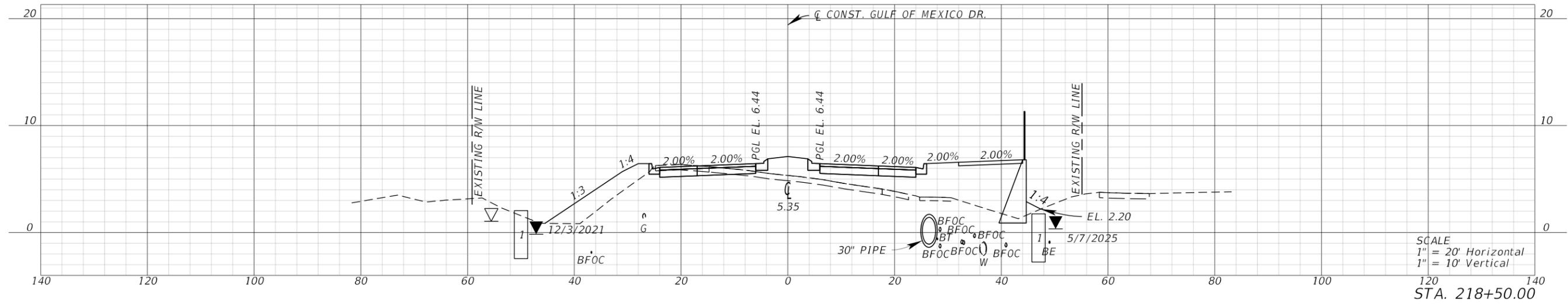
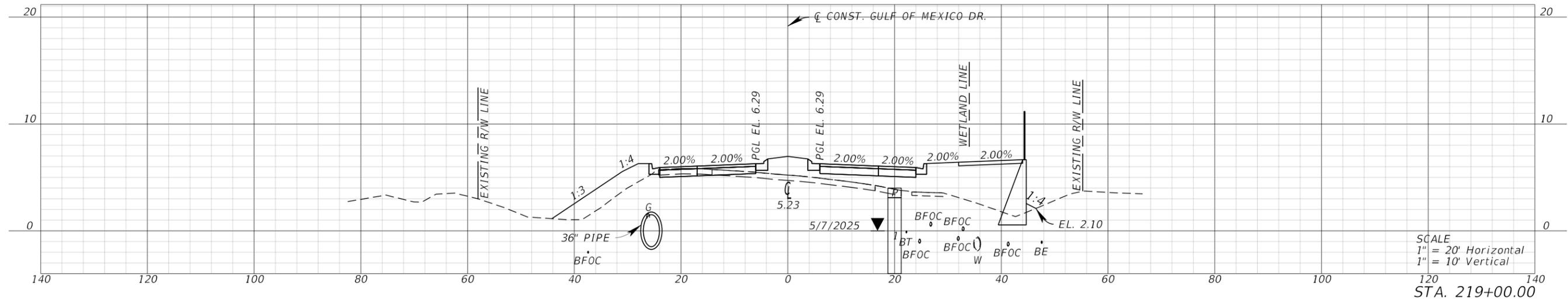
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							SR 789	MANATEE	453730-1-52-01	
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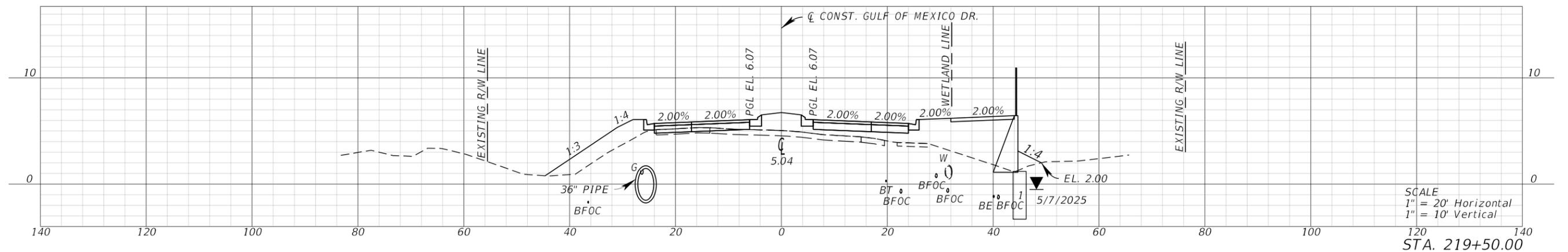
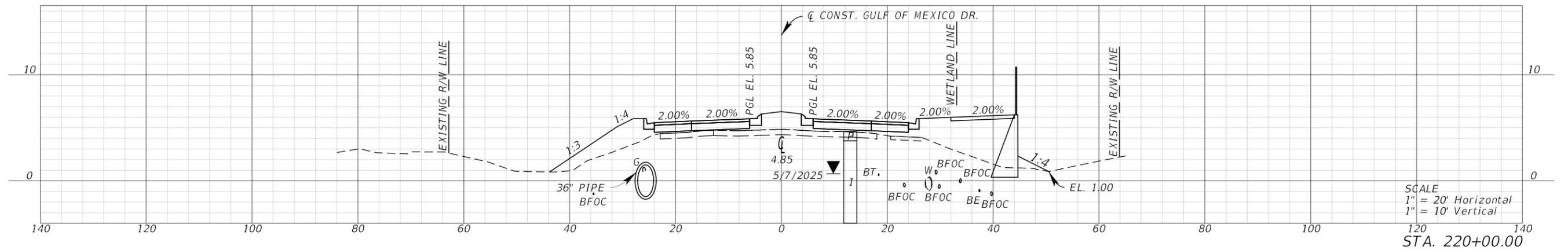
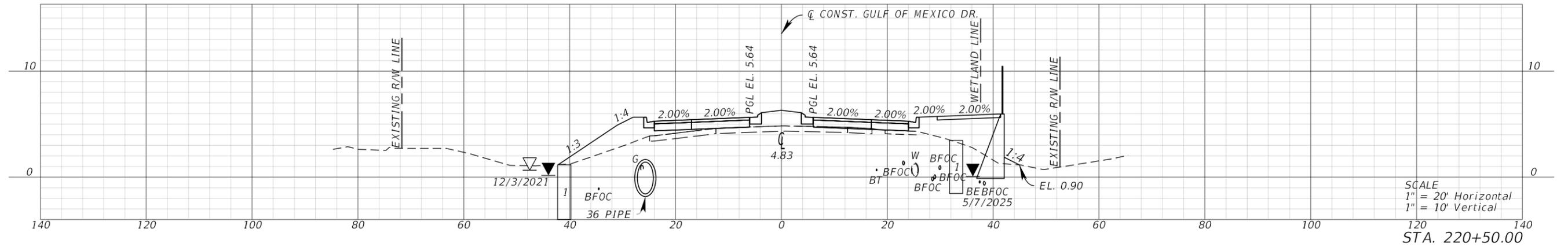
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						SR 789	MANATEE	453730-1-52-01	
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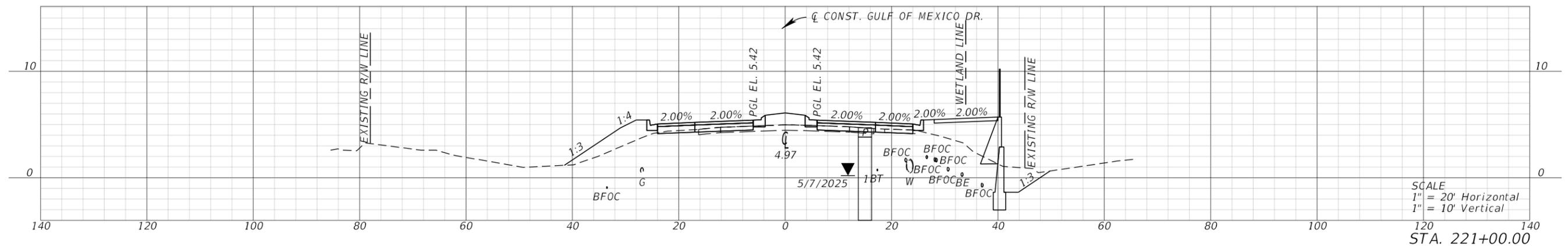
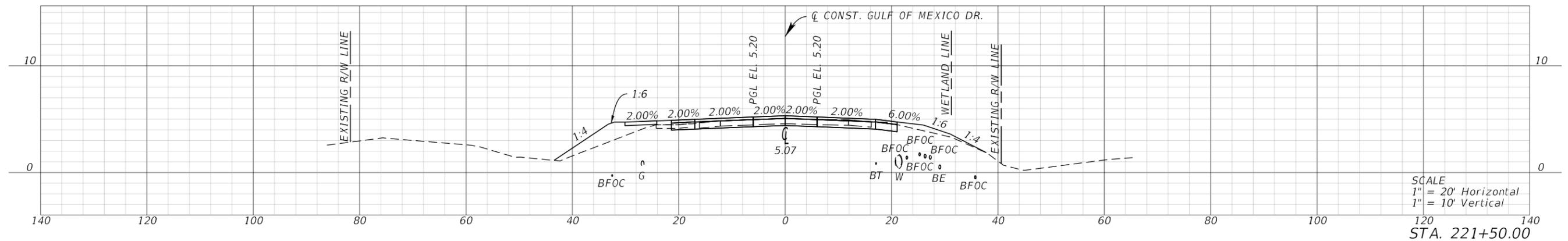
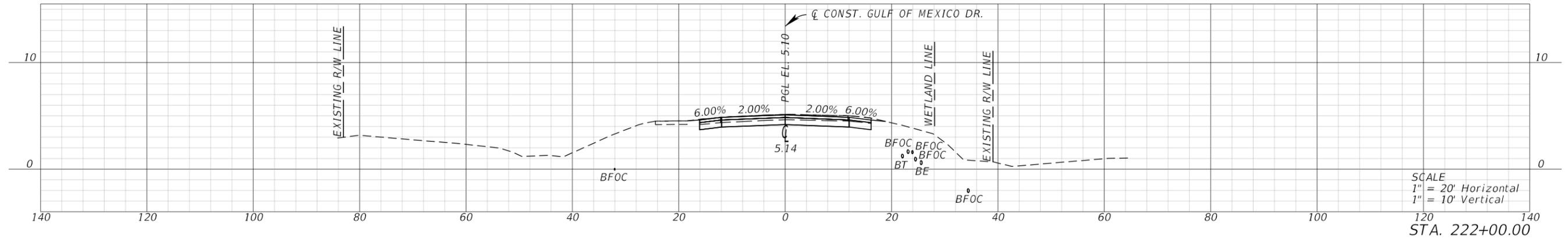
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						SR 789	MANATEE	453730-1-52-01	
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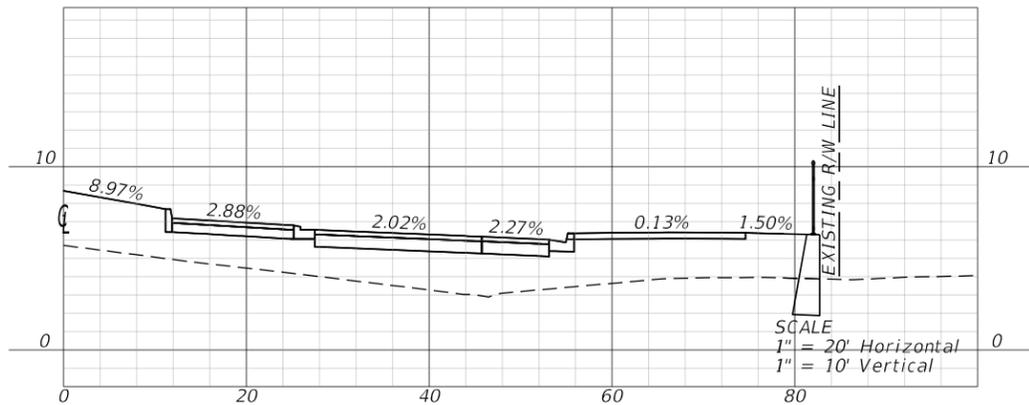
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								SR 789	
CROSS SECTIONS									55

END PROJECT 223+25.00
 END EARTHWORK 222+00.00

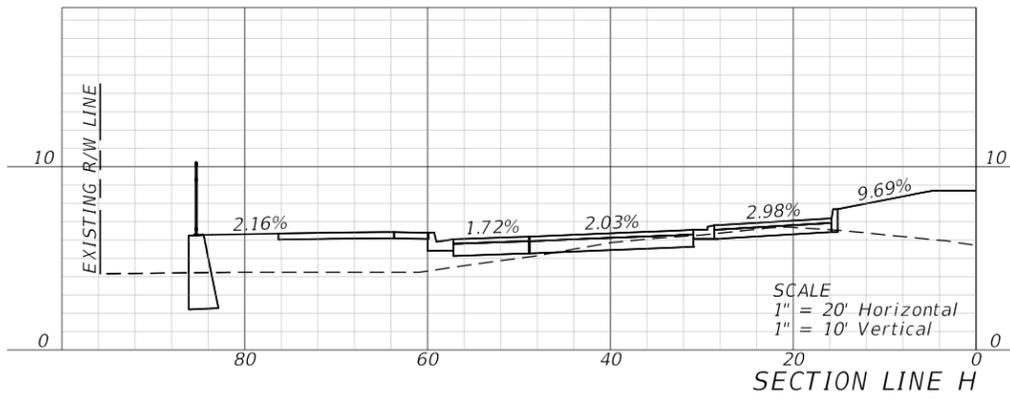


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CROSS SECTIONS									56

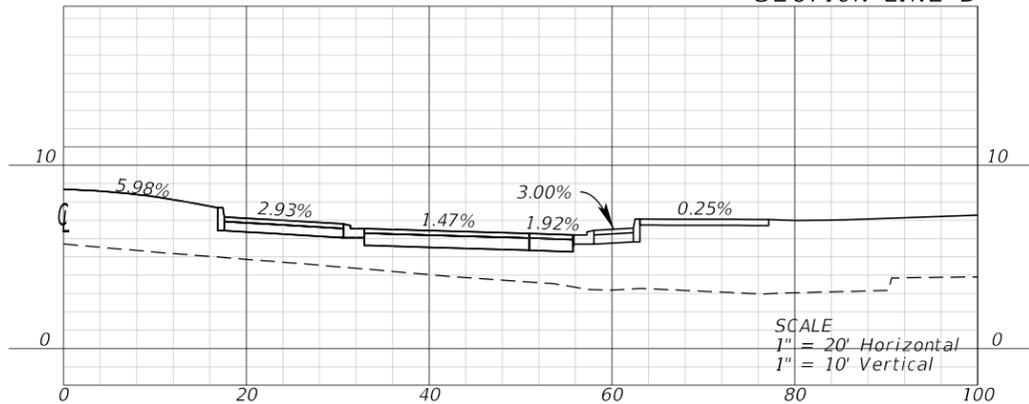
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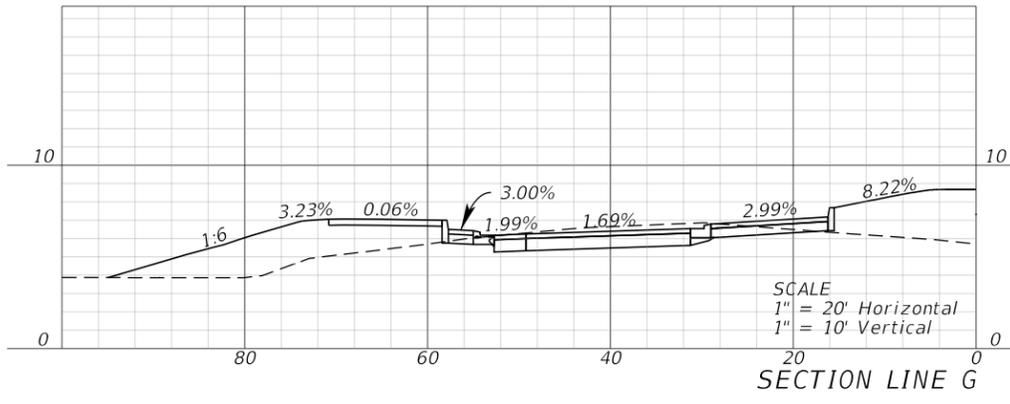
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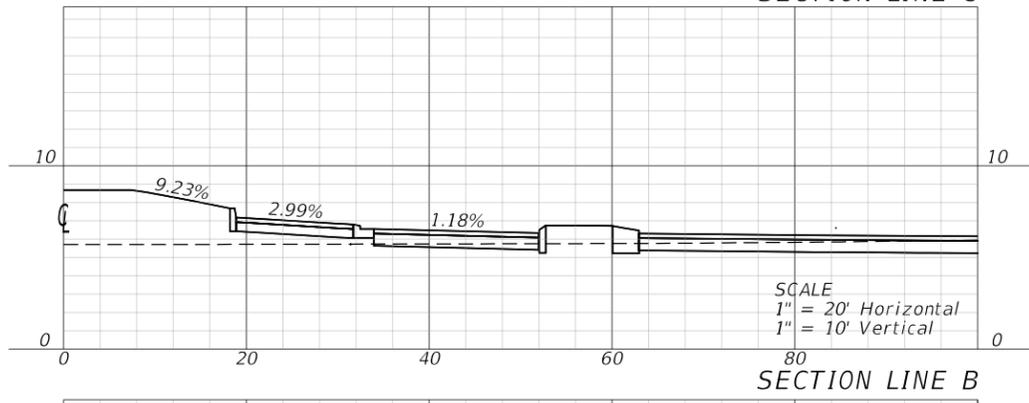
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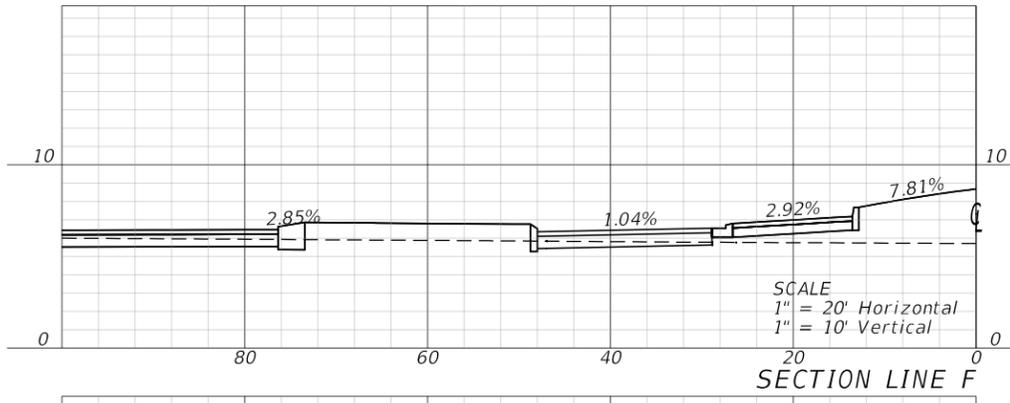
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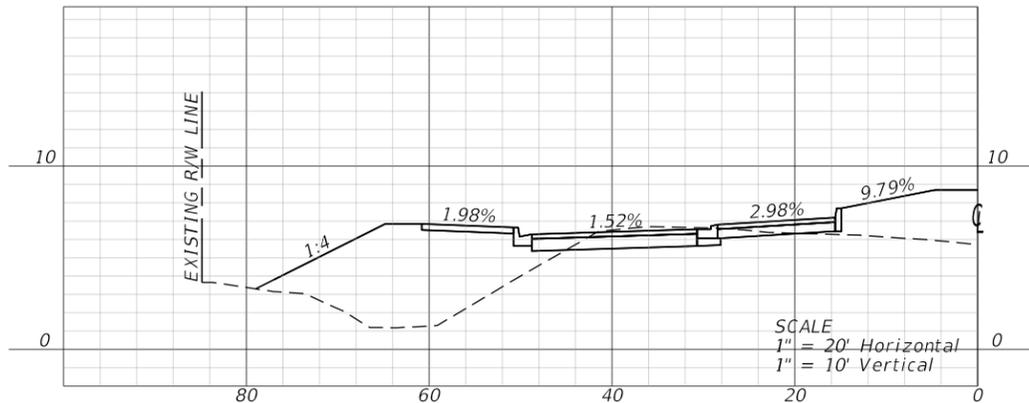
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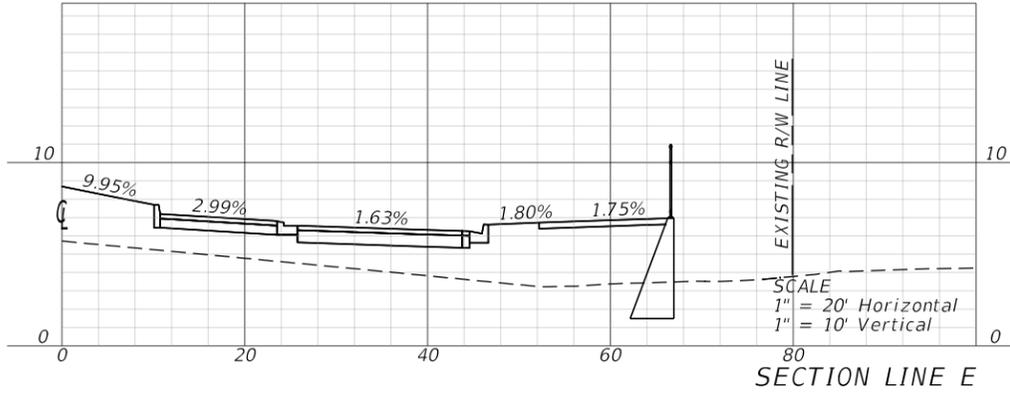
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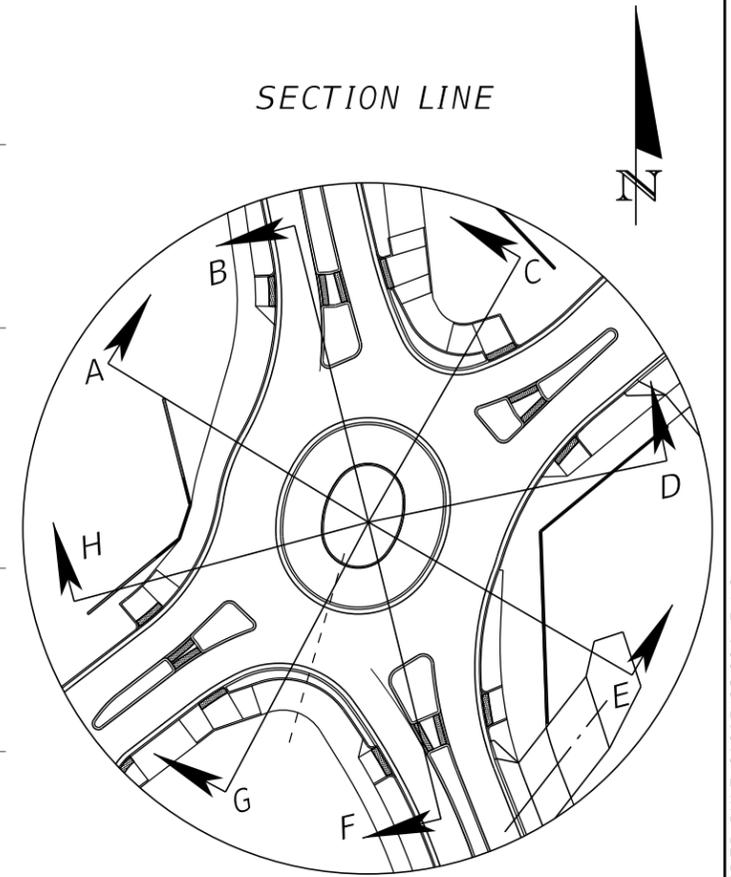
SECTION LINE F



SECTION LINE A

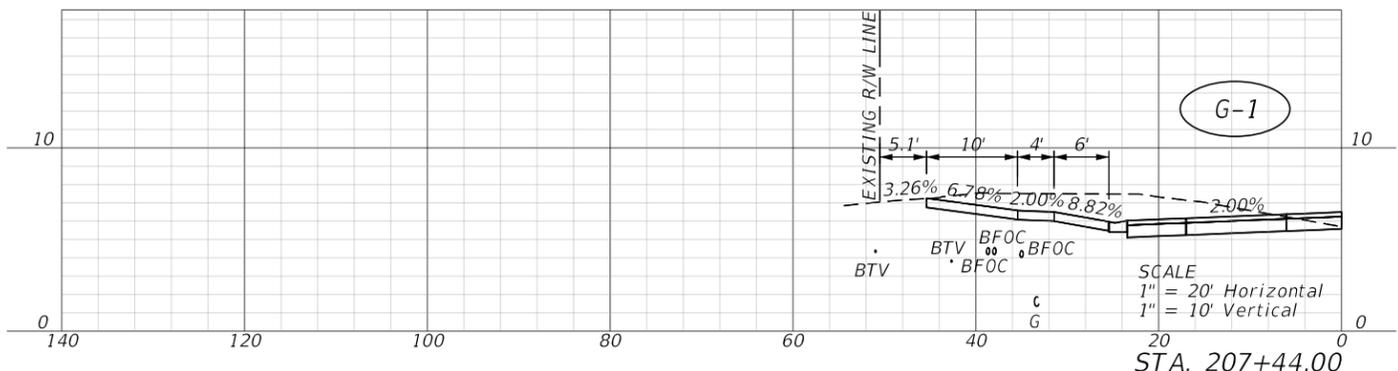
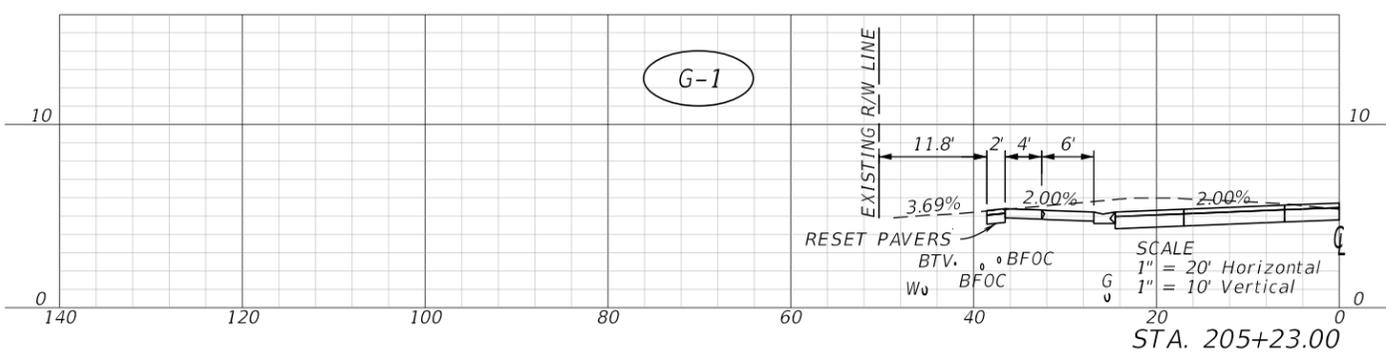
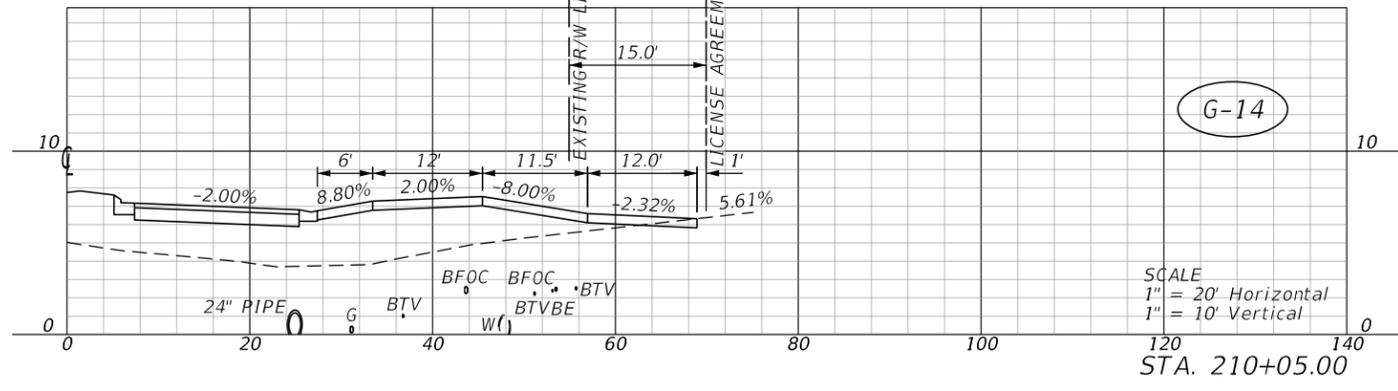
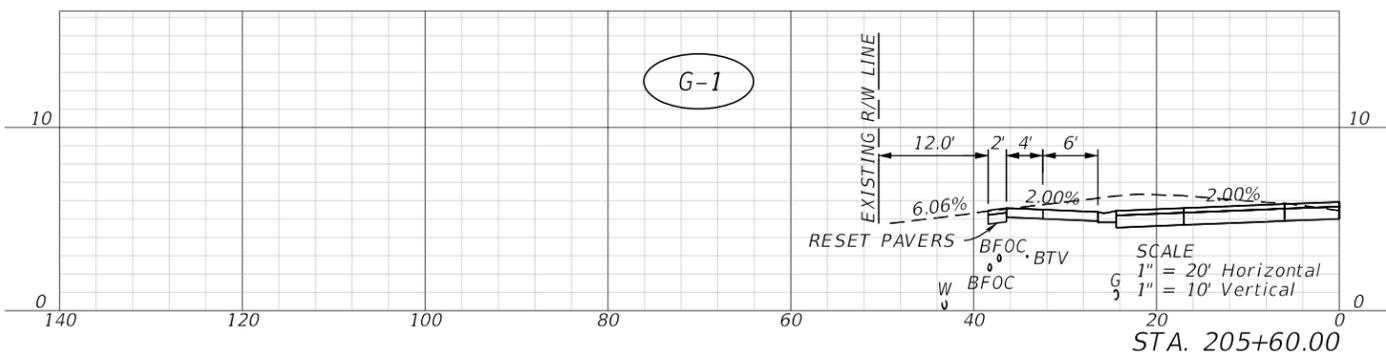
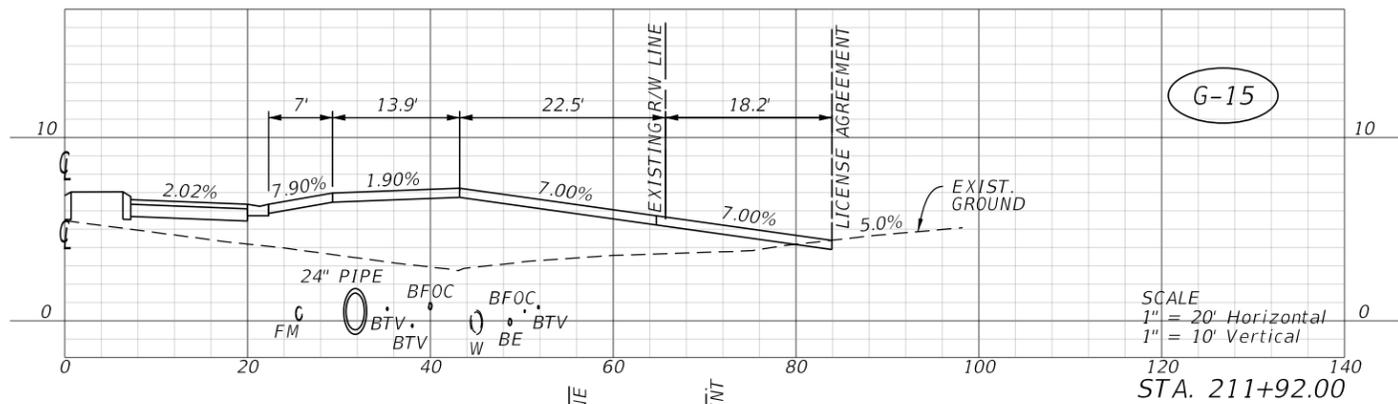
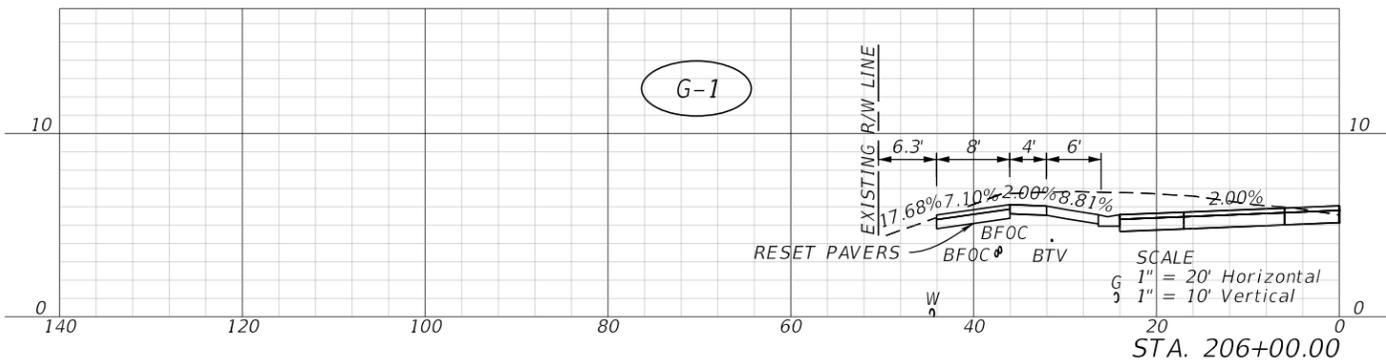
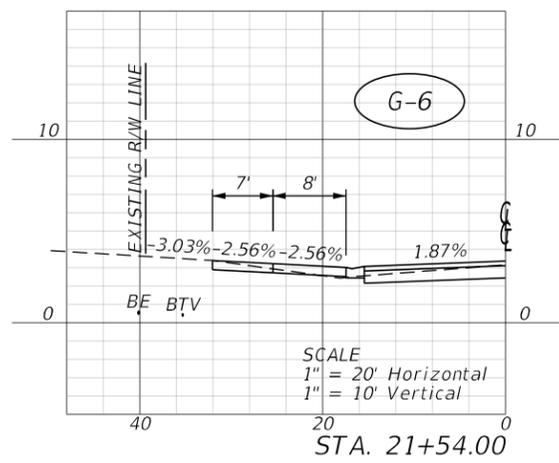
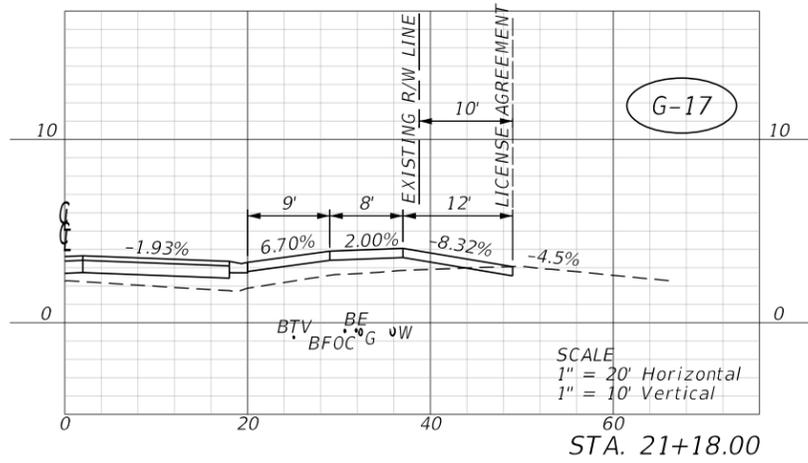
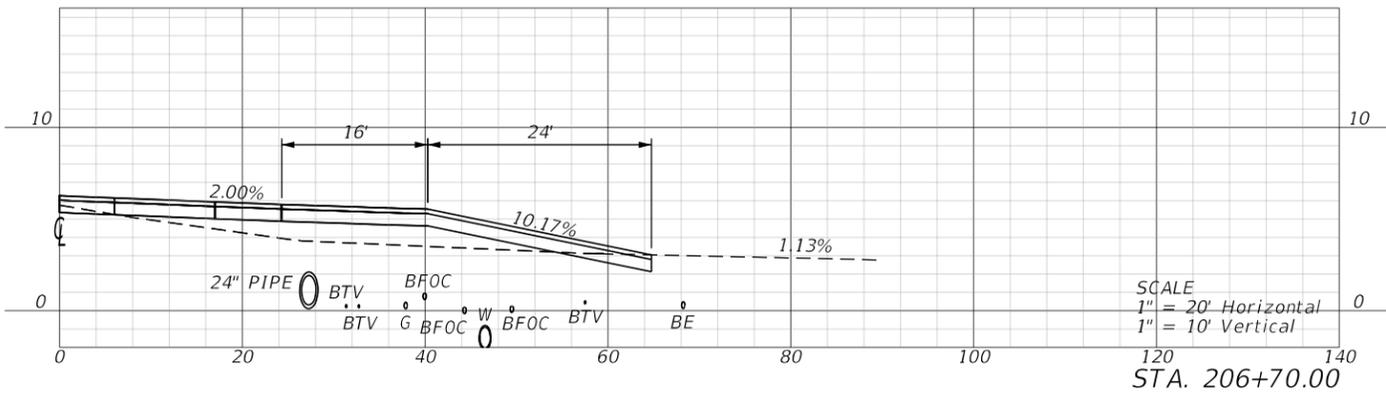


SECTION LINE E



REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CIRCULATING ROADWAY 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		
						SR 789	MANATEE	453730-1-52-01		57

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			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	
							SR 789	MANATEE	453730-1-52-01	58

DRIVEWAY HALF SECTIONS

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

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	UTILITY 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 VERIFIED/ 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, COMMUNICATIONS/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				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF VERIFIED UTILITIES	SHEET NO. 59
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		
						SR 789	MANATEE	453730-1-52-01		

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GENERAL NOTES

- 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.
- NO LANE CLOSURES ARE PERMITTED BETWEEN 8:00 AM TO 6:00 PM UNLESS APPROVED BY THE ENGINEER OF RECORD
- NO ROAD CLOSURES ARE PERMITTED WITHOUT ENGINEER OF RECORD APPROVAL.
- ACCESS SHALL BE MAINTAINED AT SR 789 (GULF OF MEXICO DRIVE) AND CEDAR STREET INTERSECTION THROUGHOUT ALL PHASES OF CONSTRUCTION.
- 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.
- 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.
- REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED WITH THE USE OF WATER BLASTING. THIS COST IS INCIDENTAL TO THE COST OF THE TEMPORARY PAVEMENT MARKINGS.

PHASING NOTES

PHASE IA & IB

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

- PLACE ADVANCE WARNING TRAFFIC CONTROL SIGNS AND DEVICES.
- 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.
- 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.
- RESTORE ANY DROP OFF CONDITION WITHIN THE SAME WORK PERIOD PER INDEX 102-600.

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.

- ADJUST ADVANCE WARNING TRAFFIC CONTROL SIGNS AND DEVICES AS NECESSARY.
- 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.
- 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.

- ADJUST ADVANCE WARNING TRAFFIC CONTROL SIGNS AND DEVICES AS NECESSARY.
- PLACE WORK ZONE SIGNS, CHANNELIZING DEVICES AND TEMPORARY PAVEMENT MARKINGS (INDEX 102-608, 102-660, 102-661). ADJUST/RELOCATE ANY EXIST. SIGNS WHERE NECESSARY.
- 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.
- 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.
- 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.

- ADJUST ADVANCE WARNING TRAFFIC CONTROL SIGNS AND DEVICES AS NECESSARY.
- 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.
- REMOVE ANY TEMPORARY OVERBUILD FROM PREVIOUS PHASES.
- CONSTRUCT MEDIAN AND ROUNDABOUT, AND COMPLETE MISSING PORTIONS OF PAVEMENT UP TO BUT NOT INCLUDING THE FRICTION COURSE.
- RESTORE ANY DROP OFF CONDITION WITHIN THE SAME WORK PERIOD PER INDEX 102-600.
- 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.

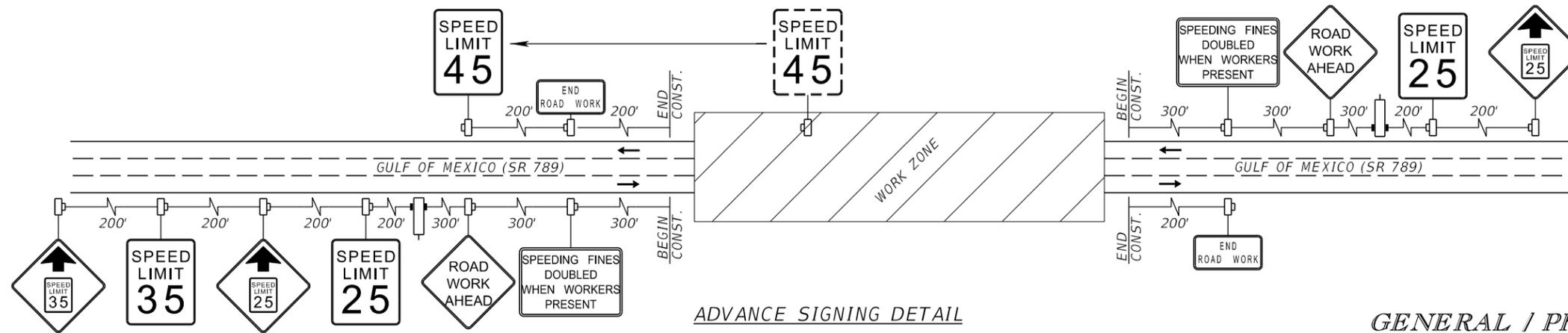
- ADJUST ADVANCE WARNING TRAFFIC CONTROL SIGNS AND DEVICES AS NECESSARY.
- PLACE WORK ZONE SIGNS, CHANNELIZING DEVICES AND TEMPORARY PAVEMENT MARKINGS (INDEX 102-608, 102-661). ADJUST/RELOCATE ANY EXIST. SIGNS WHERE NECESSARY. SHIFT TRAFFIC TO THE PHASE III CONFIGURATION.
- REMOVE ANY TEMPORARY PAVEMENT FROM PREVIOUS PHASES.
- 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.
- 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.

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



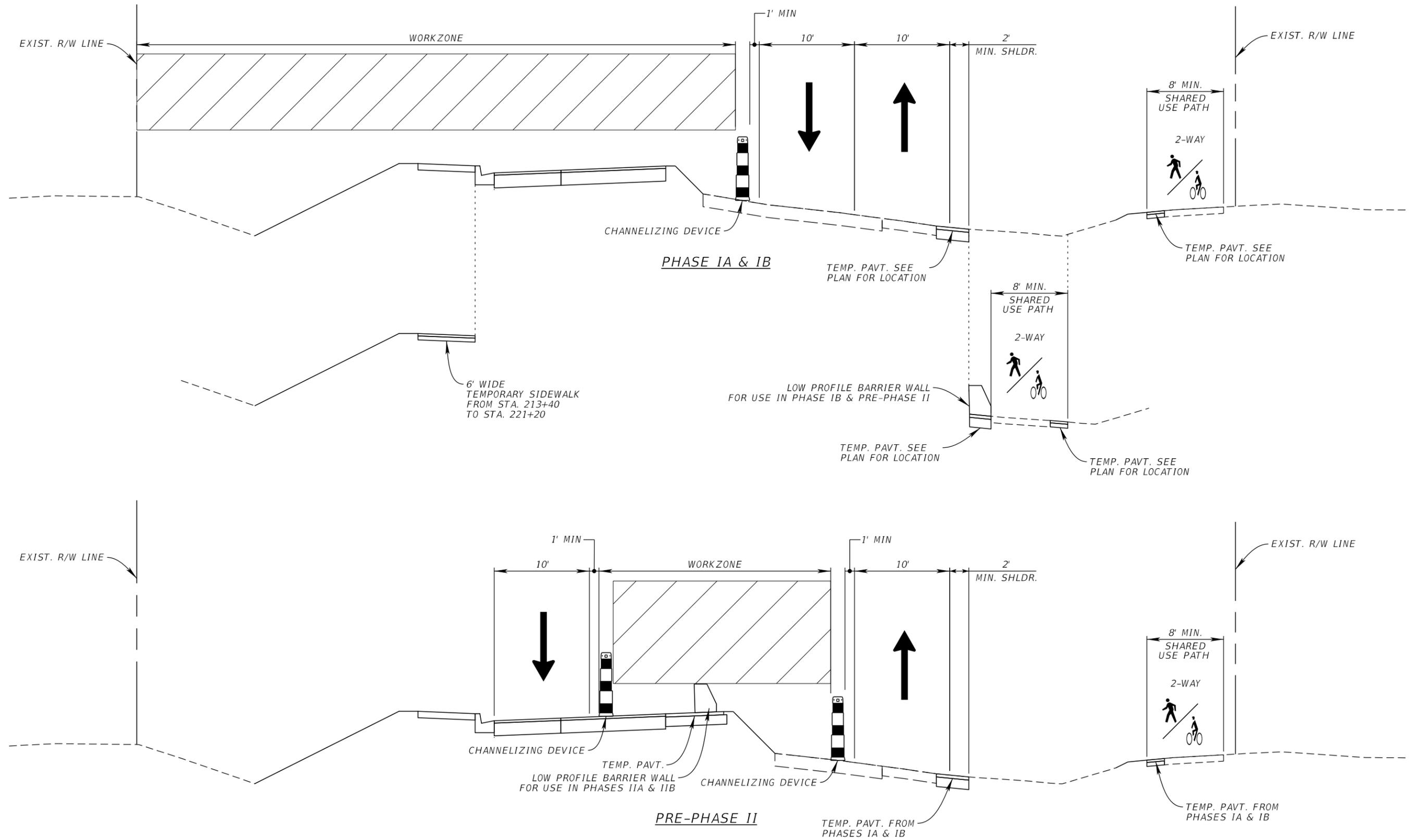
ADVANCE SIGNING DETAIL

GENERAL / PHASING NOTES AND DETAILS

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236		SR 789	MANATEE	453730-1-52-01	60

TEMPORARY TRAFFIC CONTROL PLAN

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

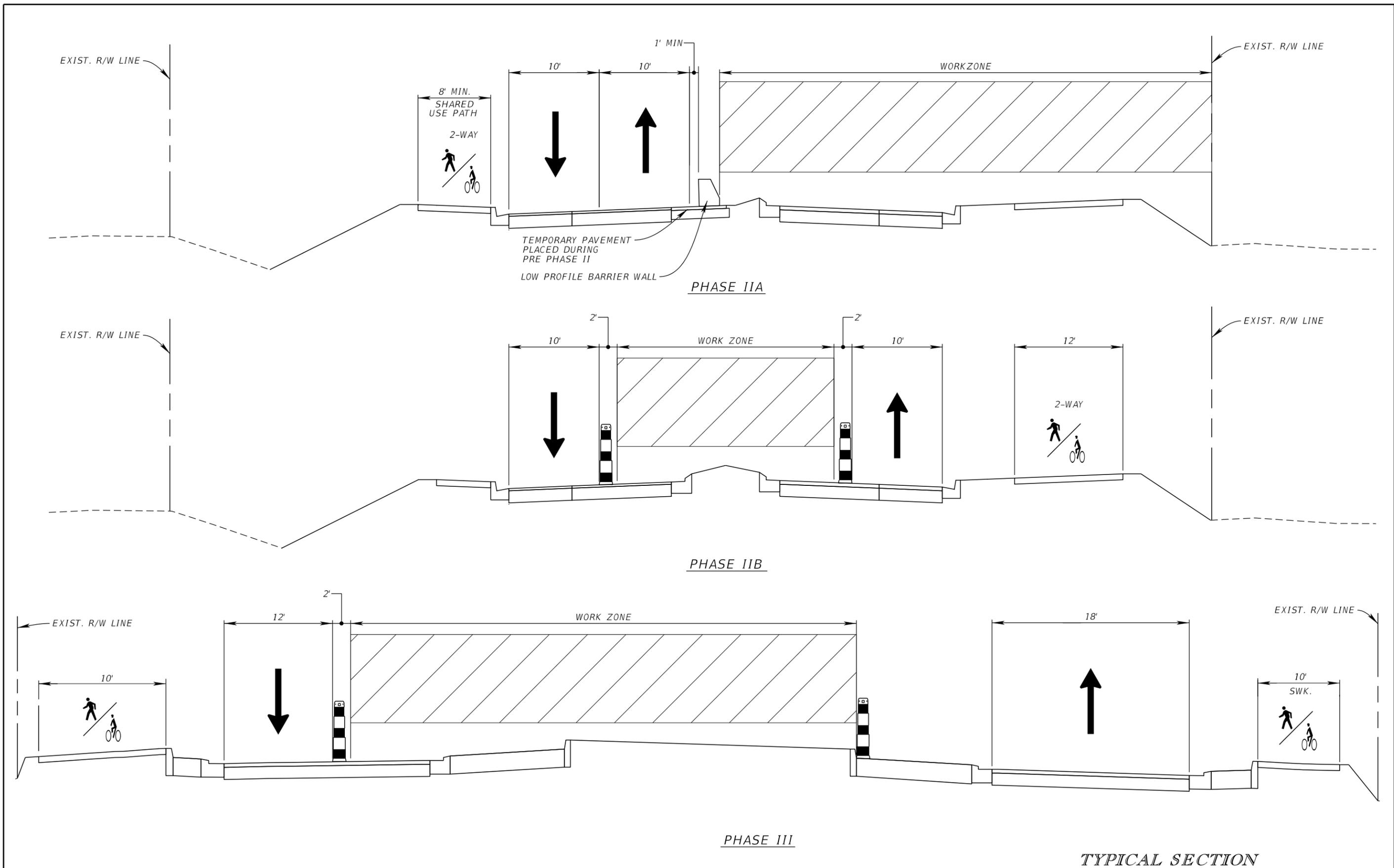


TYPICAL SECTION

TEMPORARY TRAFFIC CONTROL PLAN

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						SR 789	MANATEE	453730-1-52-01	61

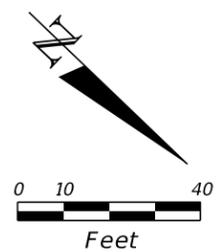
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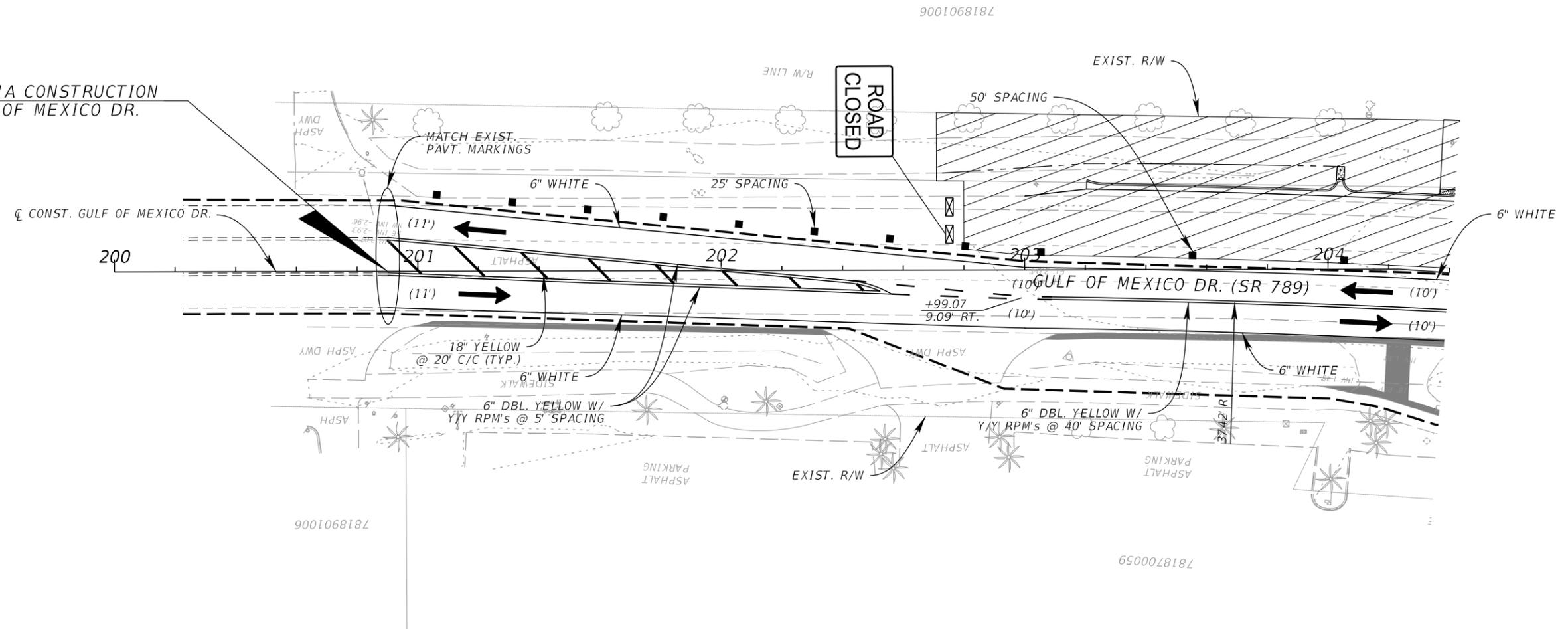
TYPICAL SECTION
TEMPORARY TRAFFIC CONTROL PLAN

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
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							SR 789	MANATEE	453730-1-52-01	62

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BEGIN PHASE 1A CONSTRUCTION
 CL CONST. GULF OF MEXICO DR.
 STA. 200+90.00



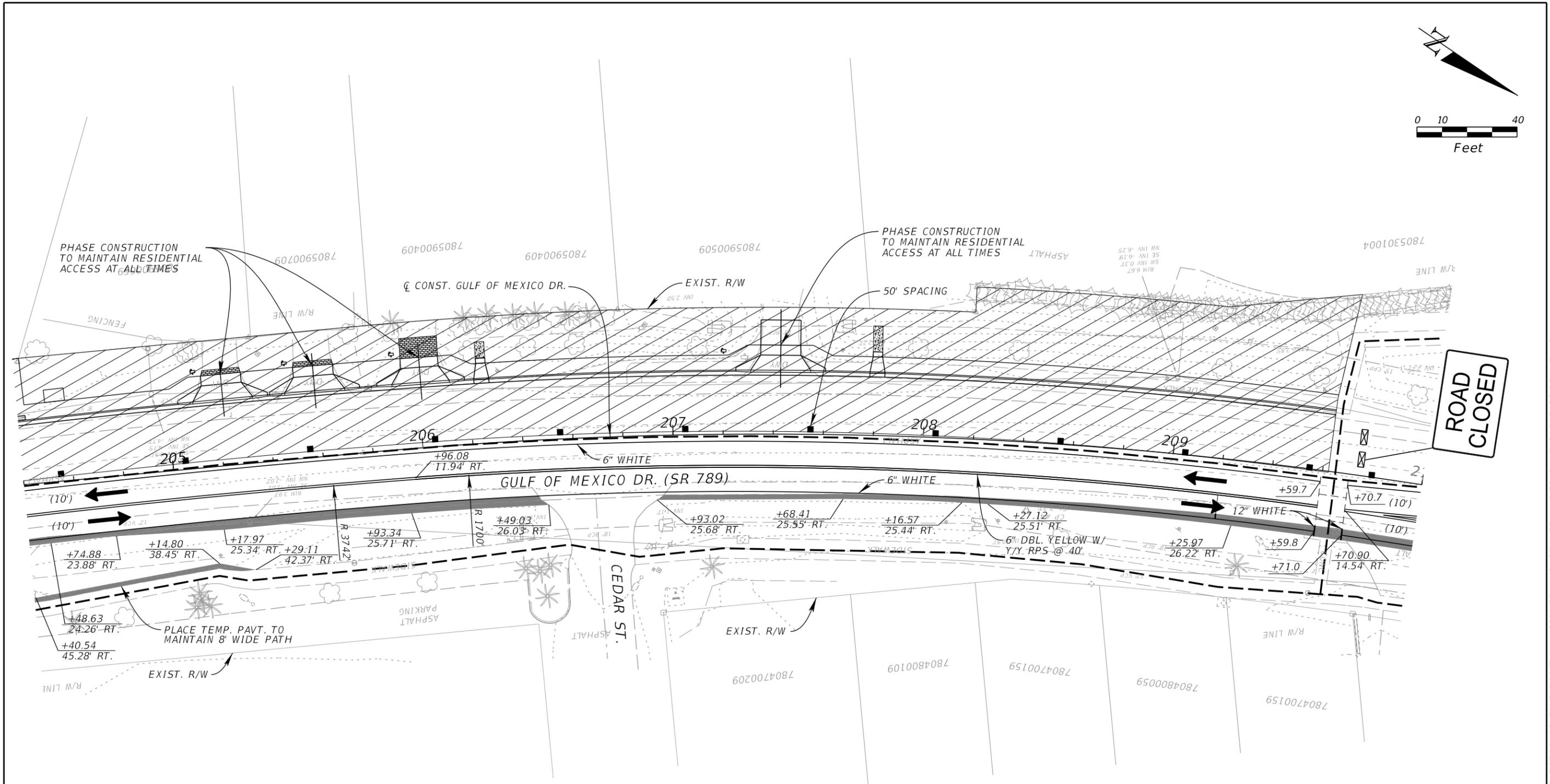
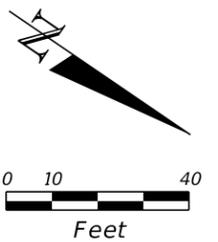
LEGEND

- 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				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
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								SR 789	MANATEE

**TTCP
 PHASE IA (1)**

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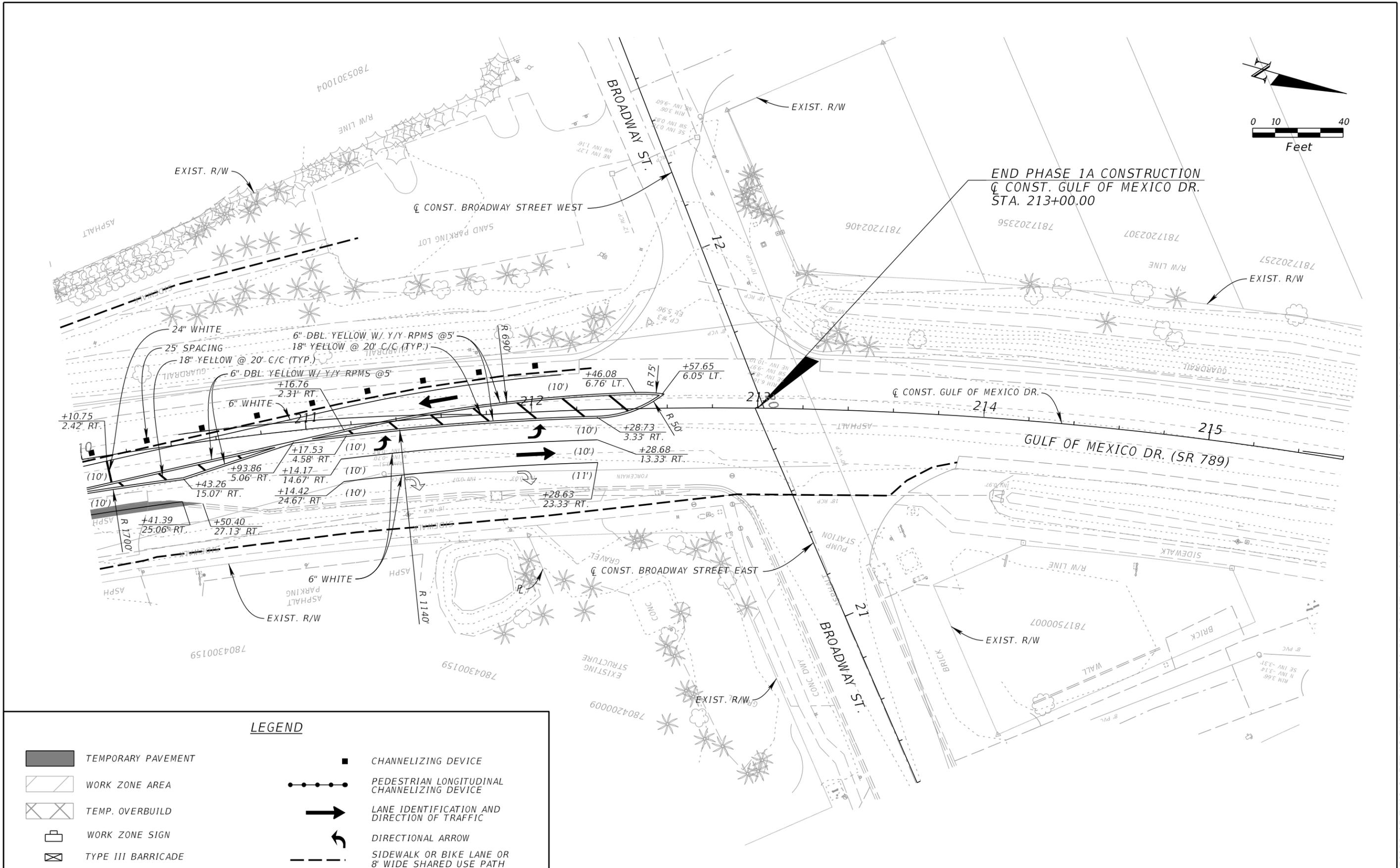
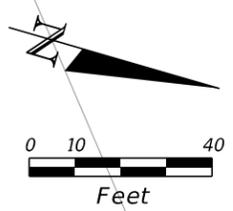
LEGEND

- 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

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**TTCP
PHASE IA (2)**

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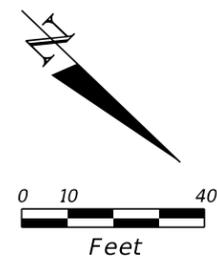
LEGEND

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

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	SR 789	MANATEE	453730-1-52-01	65

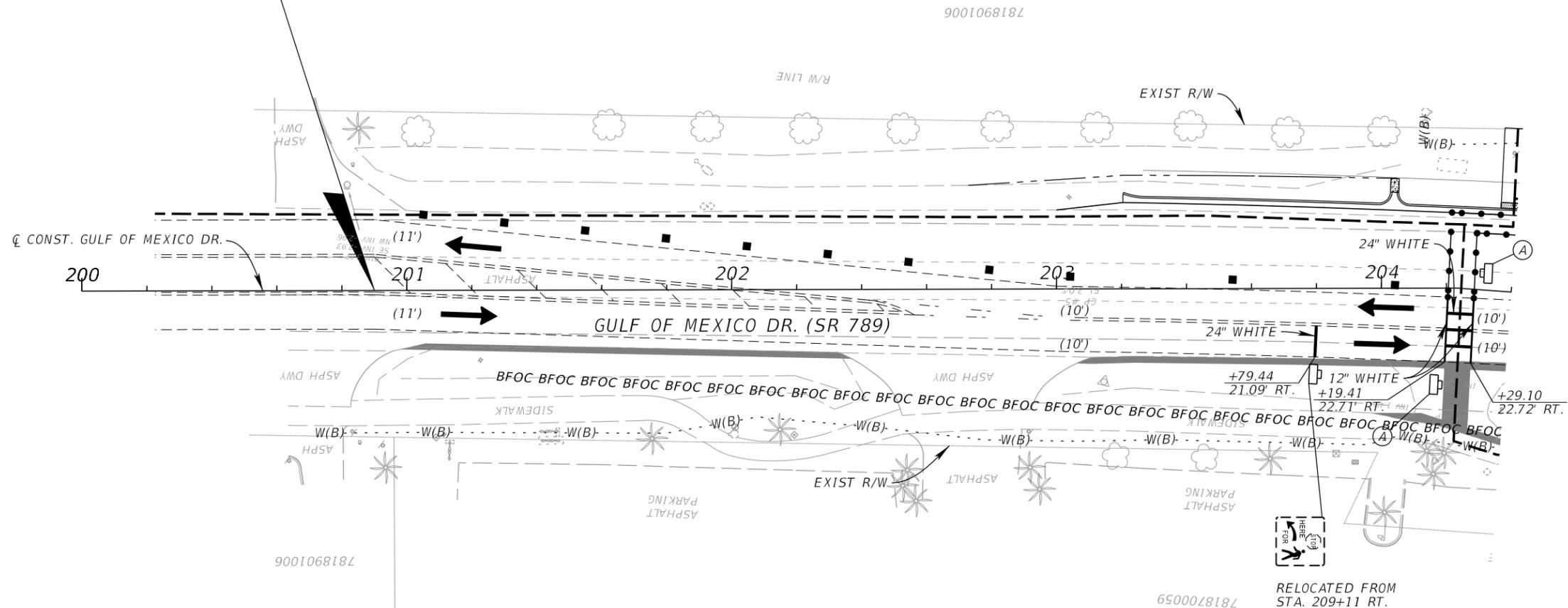
**TTCP
PHASE IA (3)**

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

BEGIN PHASE 1B CONSTRUCTION
 C CONST. GULF OF MEXICO DR.
 STA. 200+90.00



RELOCATED FROM STA. 207+02 RT.

EXIST. PAVT. MARKINGS FROM PHASE 1A TO REMAIN
 ADD PAVT. MARKINGS FOR MID-BLOCK CROSSING AT STA. 204+24

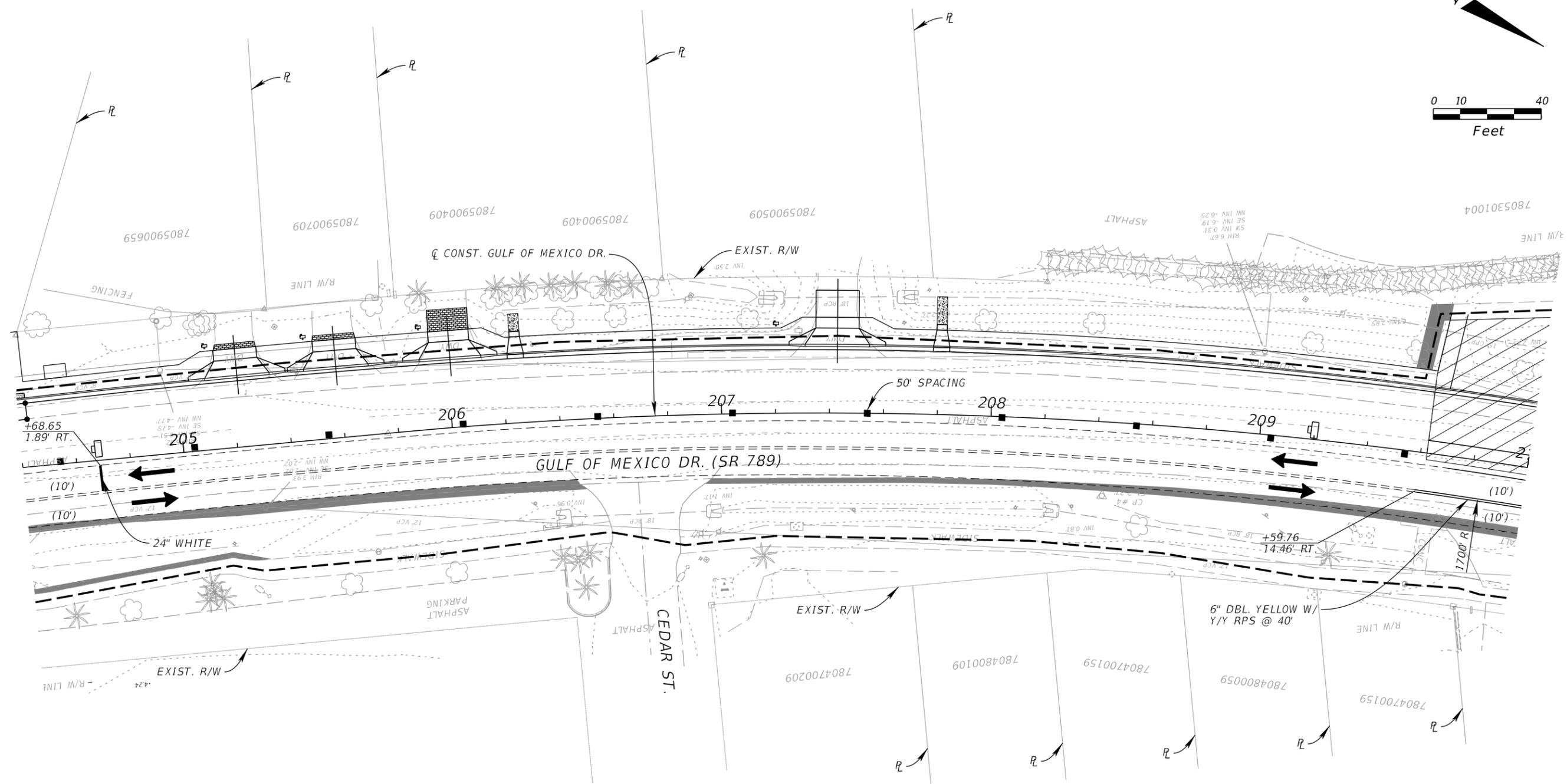
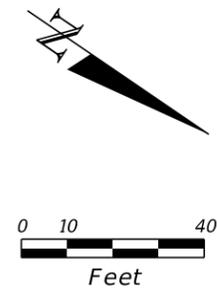
LEGEND

- 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				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	
						SR 789	MANATEE	453730-1-52-01	66

**TTCP
 PHASE 1B (1)**

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

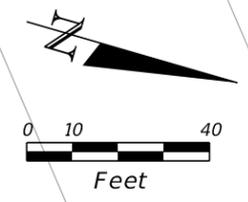
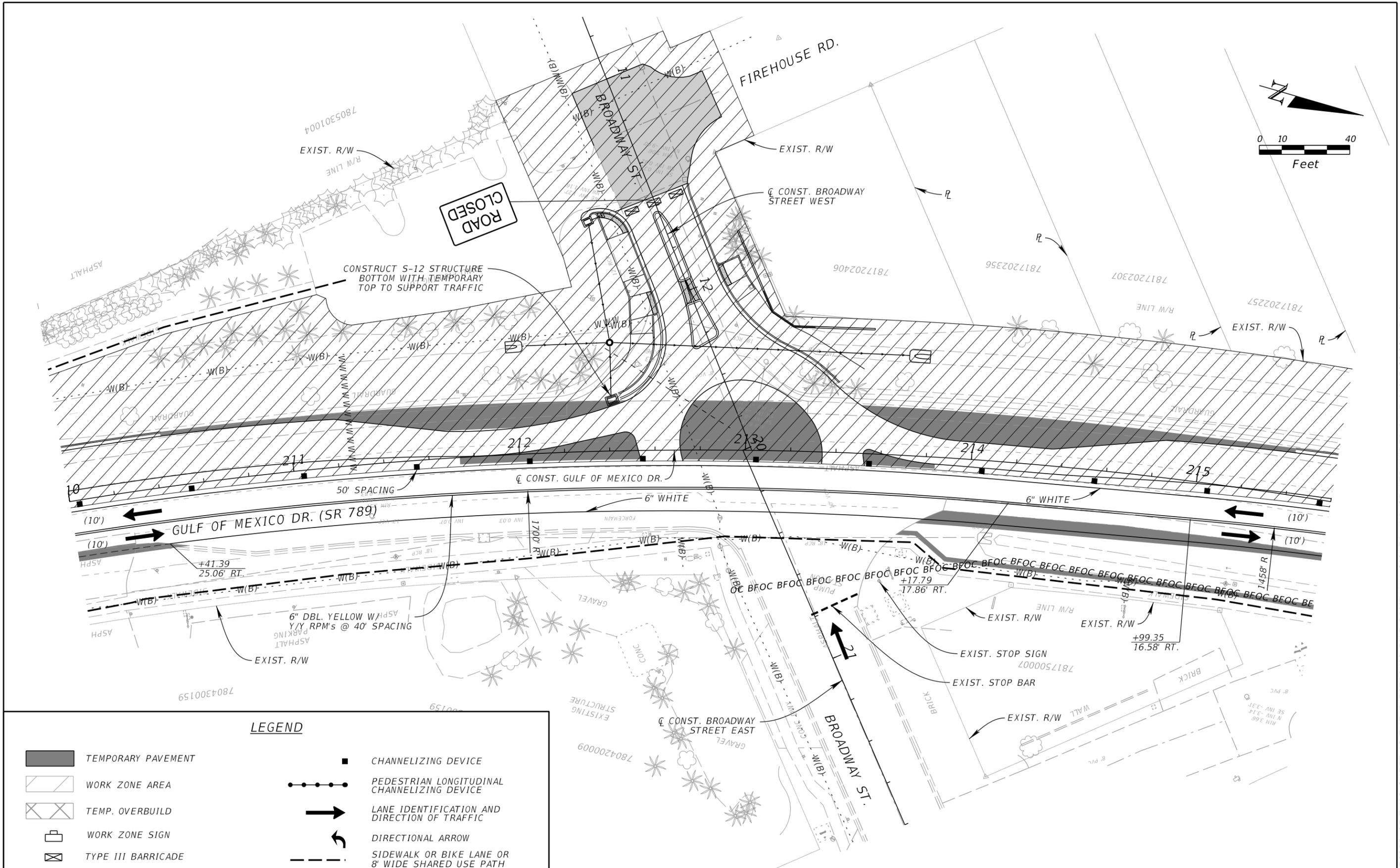


LEGEND

- 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				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	SR 789	MANATEE	453730-1-52-01	TTCP PHASE IB (2) 67

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



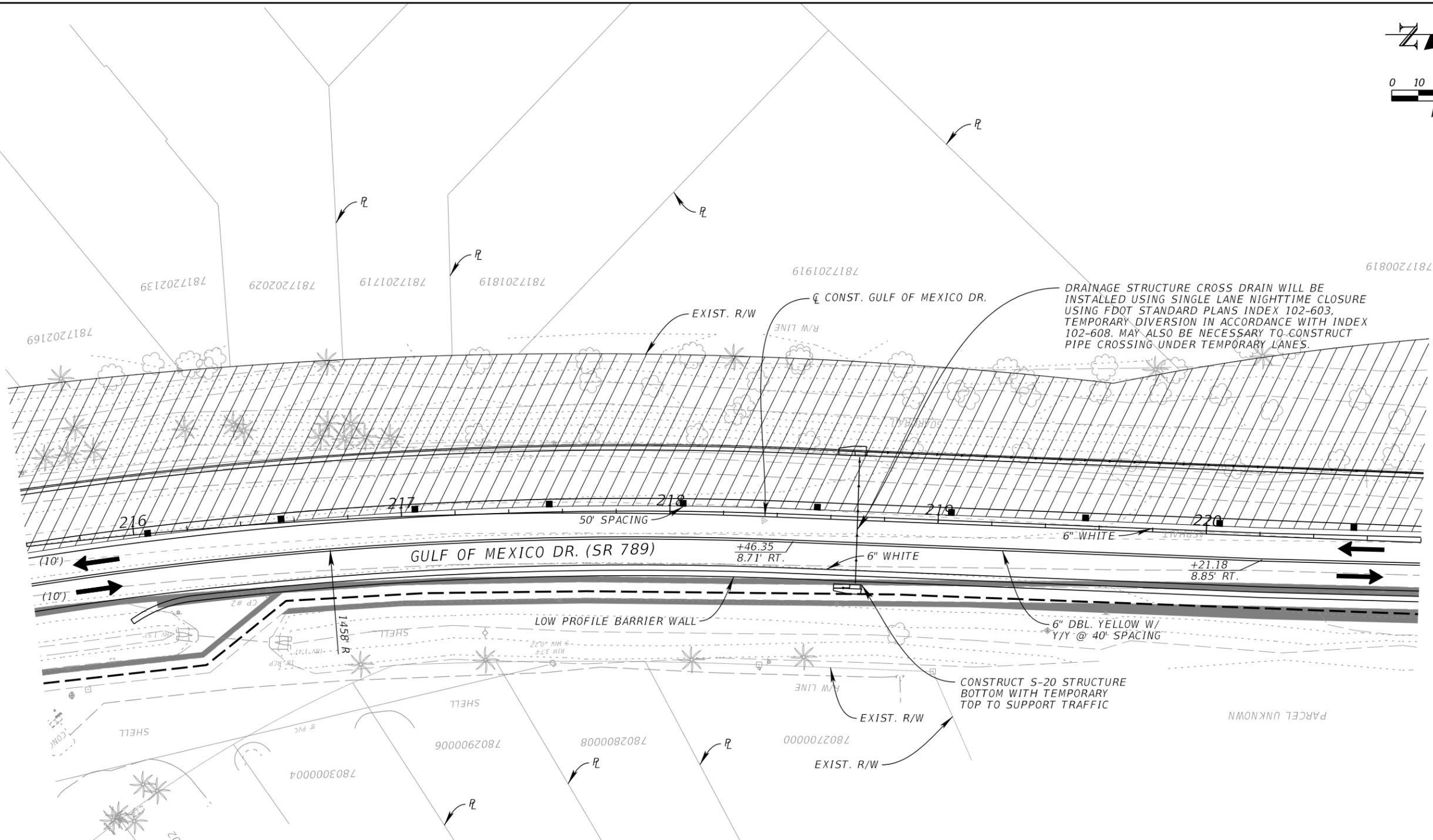
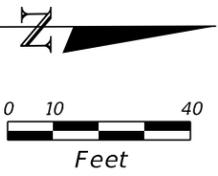
ROAD CLOSED

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				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	SR 789	MANATEE	453730-1-52-01	TTCP PHASE IB (3) 68

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



DRAINAGE STRUCTURE CROSS DRAIN WILL BE INSTALLED USING SINGLE LANE NIGHTTIME CLOSURE USING FDOT STANDARD PLANS INDEX 102-603. TEMPORARY DIVERSION IN ACCORDANCE WITH INDEX 102-608. MAY ALSO BE NECESSARY TO CONSTRUCT PIPE CROSSING UNDER TEMPORARY LANES.

CONSTRUCT S-20 STRUCTURE BOTTOM WITH TEMPORARY TOP TO SUPPORT TRAFFIC

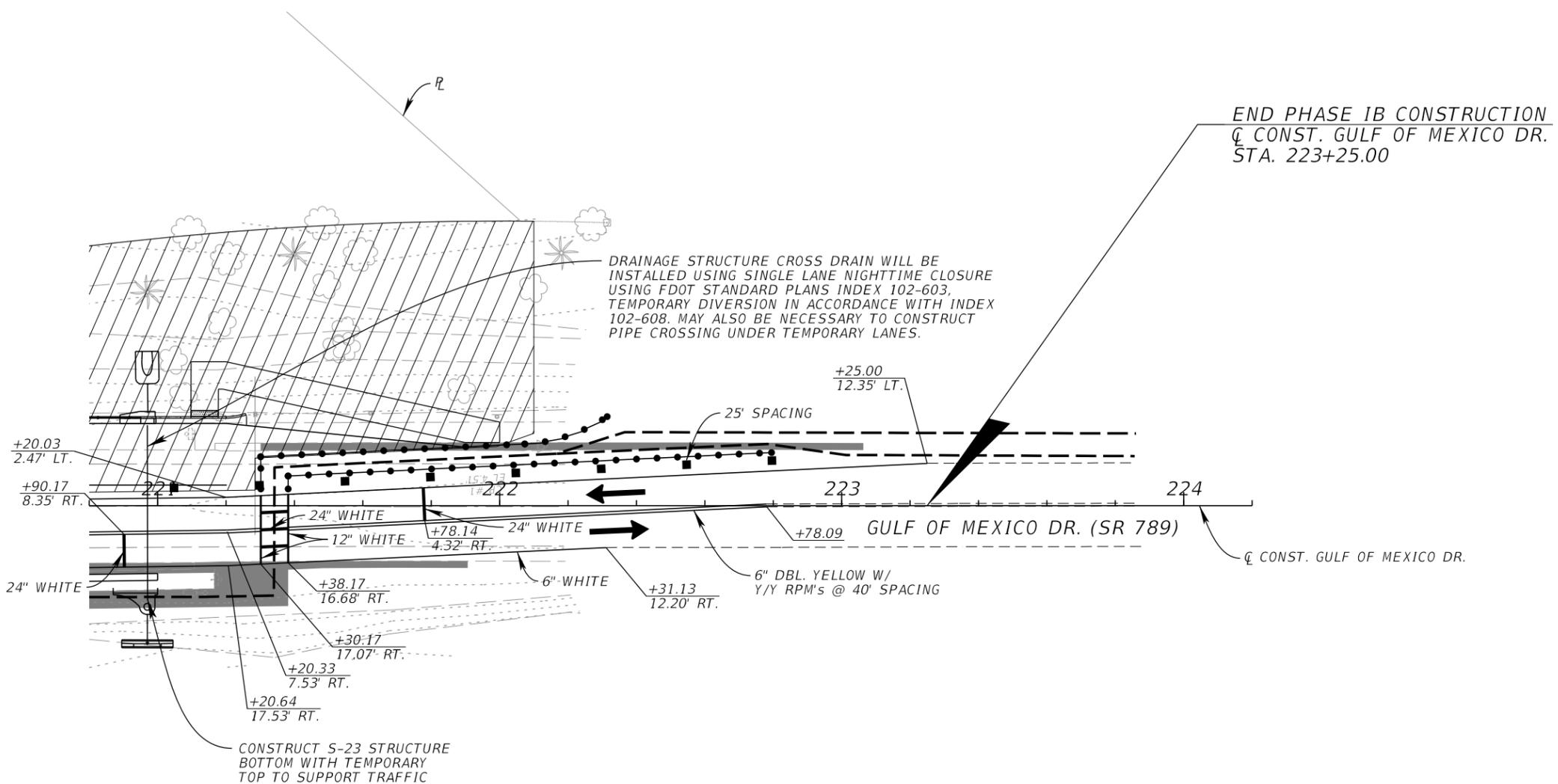
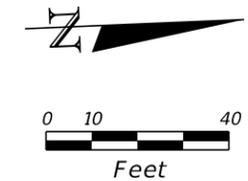
LEGEND

- 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				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	
								SR 789	MANATEE

**TTCP
PHASE IB (4)**

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



DRAINAGE STRUCTURE CROSS DRAIN WILL BE INSTALLED USING SINGLE LANE NIGHTTIME CLOSURE USING FDOT STANDARD PLANS INDEX 102-603. TEMPORARY DIVERSION IN ACCORDANCE WITH INDEX 102-608. MAY ALSO BE NECESSARY TO CONSTRUCT PIPE CROSSING UNDER TEMPORARY LANES.

END PHASE IB CONSTRUCTION
 C CONST. GULF OF MEXICO DR.
 STA. 223+25.00

CONSTRUCT S-23 STRUCTURE
 BOTTOM WITH TEMPORARY
 TOP TO SUPPORT TRAFFIC

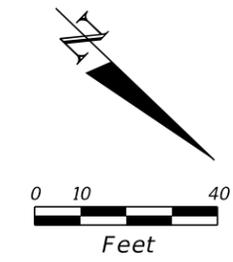
LEGEND

- 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

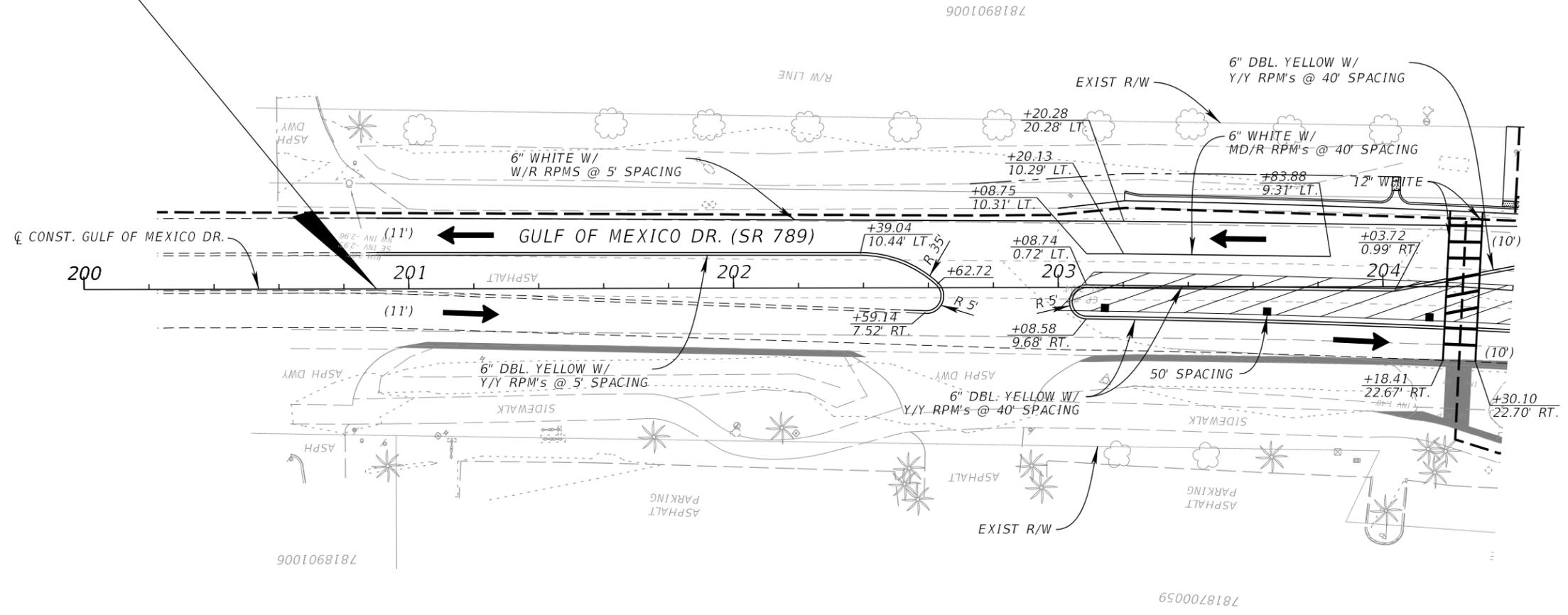
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
								SR 789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

**TTCP
 PHASE IB (5)**

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BEGIN PRE PHASE II CONST.
 C CONST. GULF OF MEXICO DR.
 STA. 200+90.00

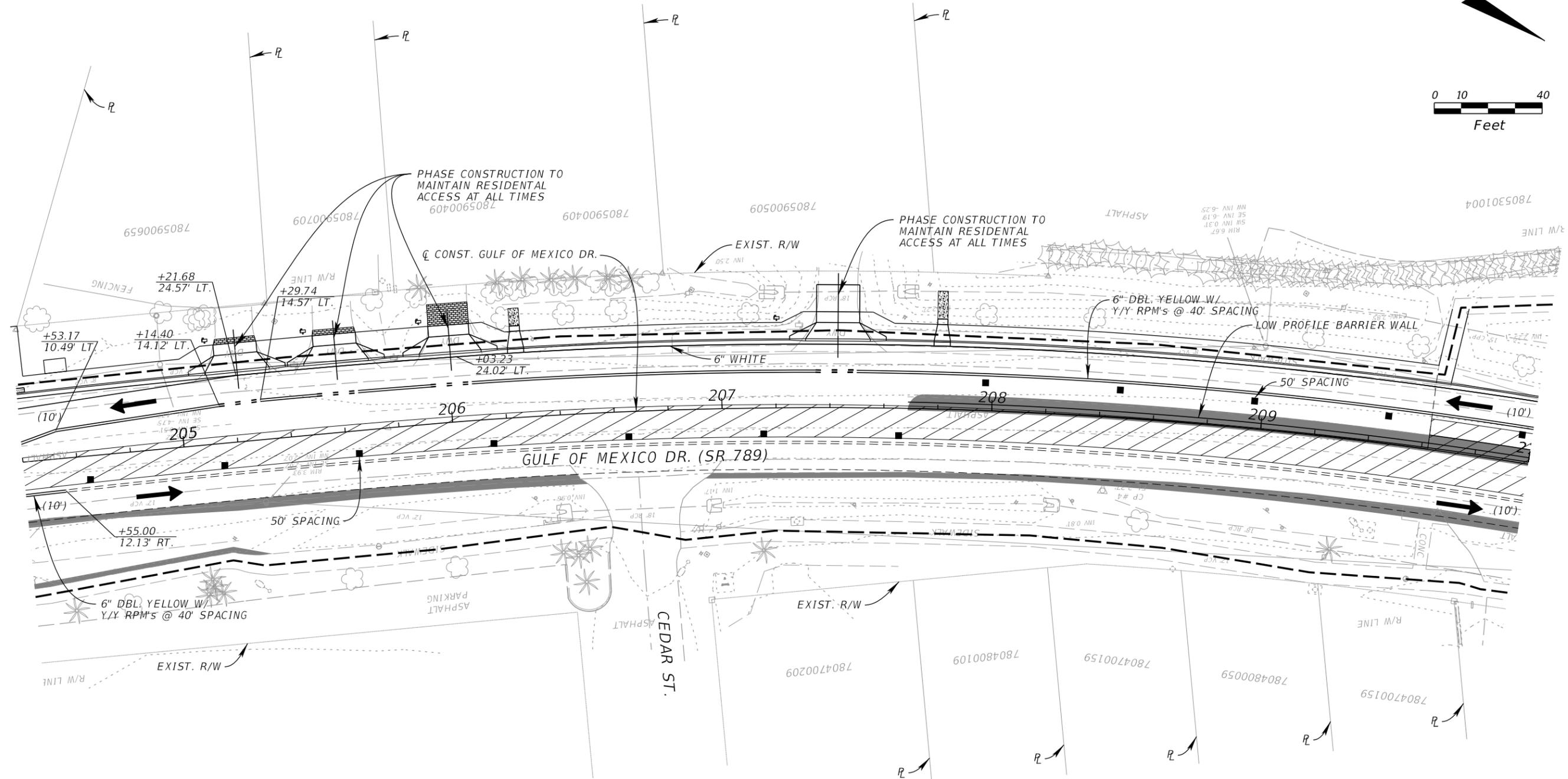
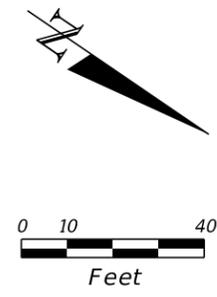


LEGEND

- 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				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TTCP PRE PHASE II (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		71
						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.



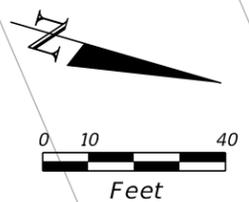
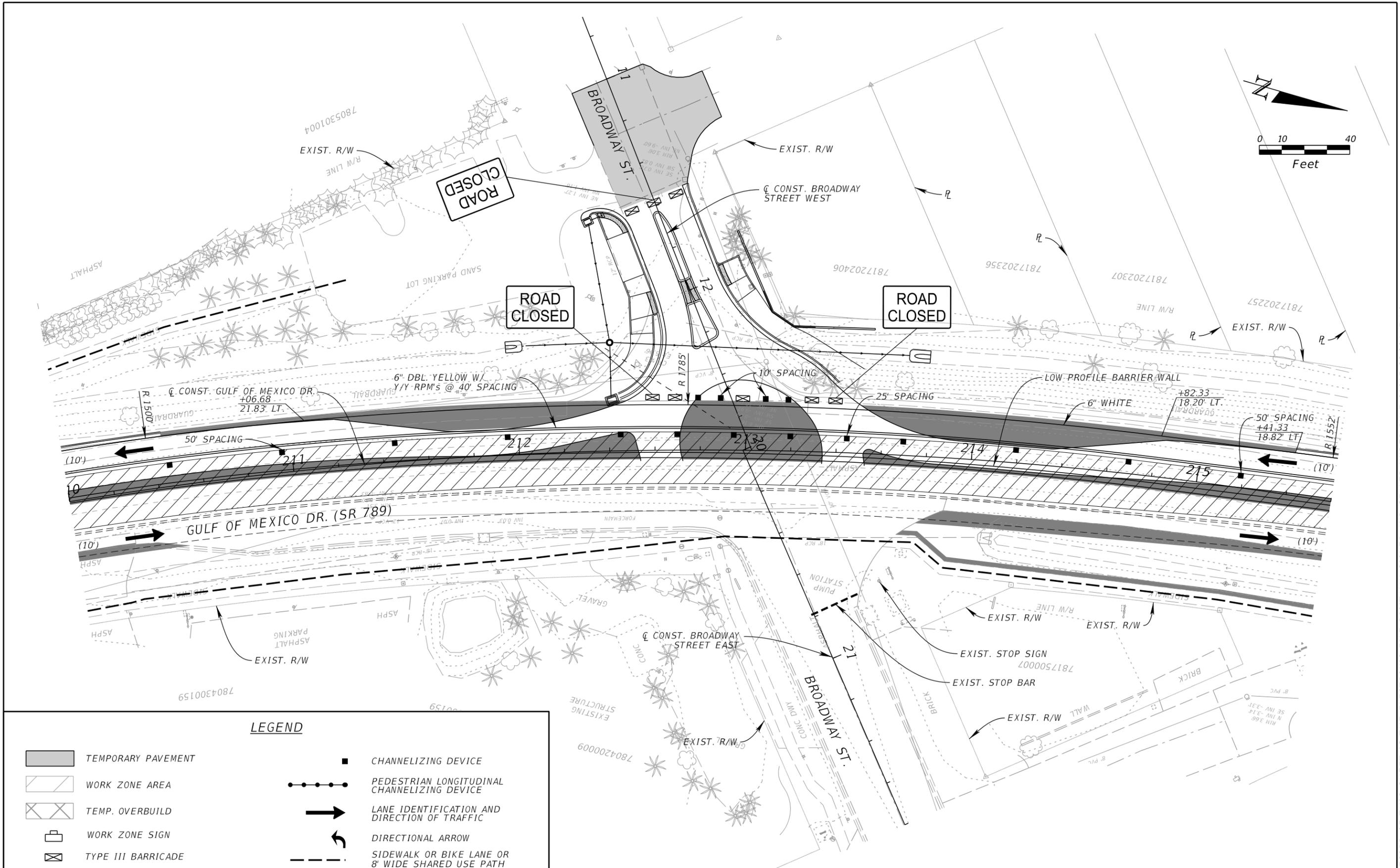
LEGEND

- 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				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	
						SR 789	MANATEE	453730-1-52-01	72

**TTCP
PRE PHASE II (2)**

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

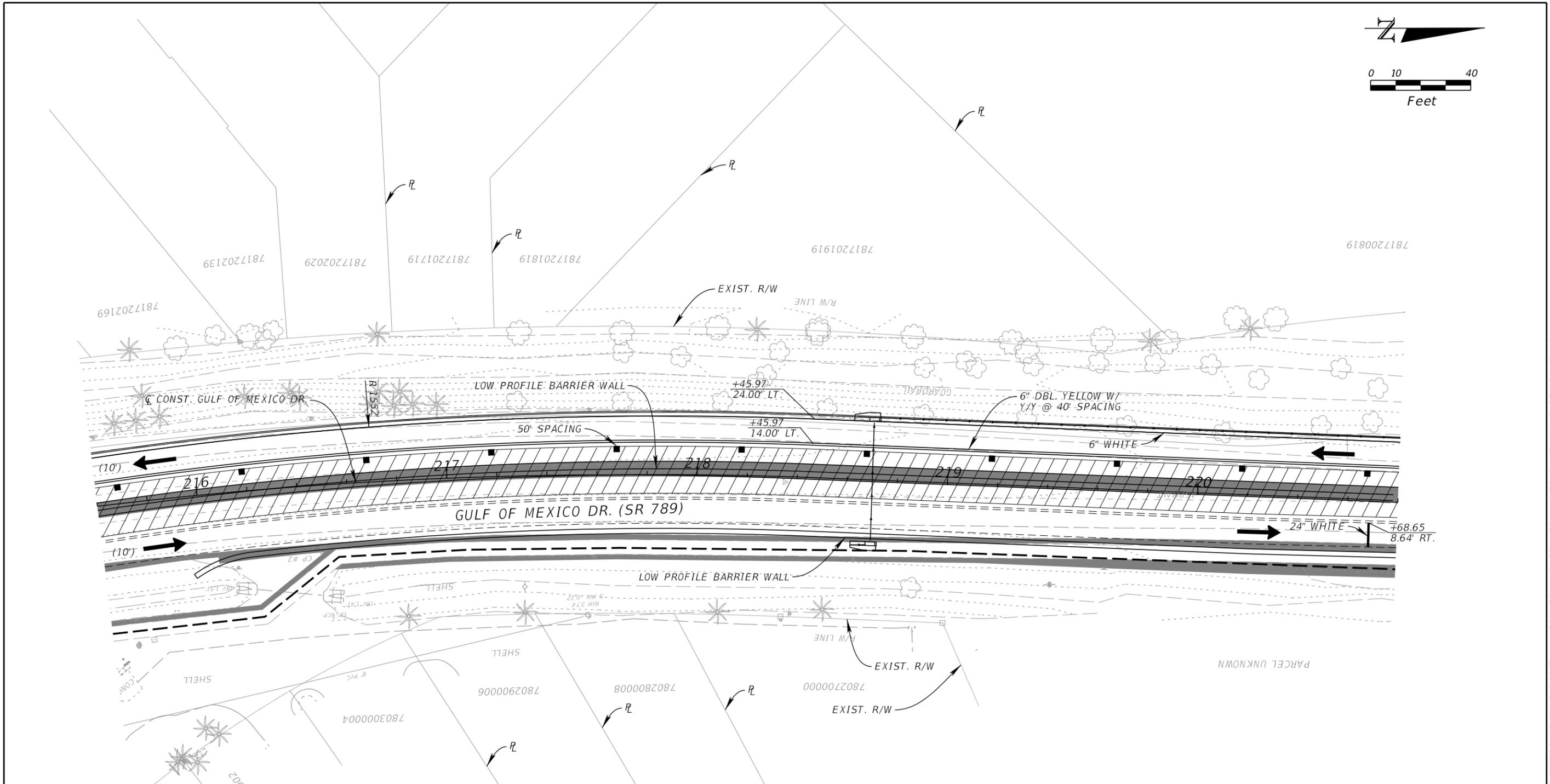
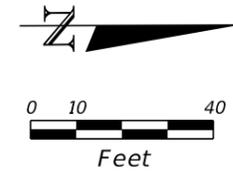


LEGEND

- 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		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	
								SR 789	
TTCP PRE PHASE II (3)									73

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

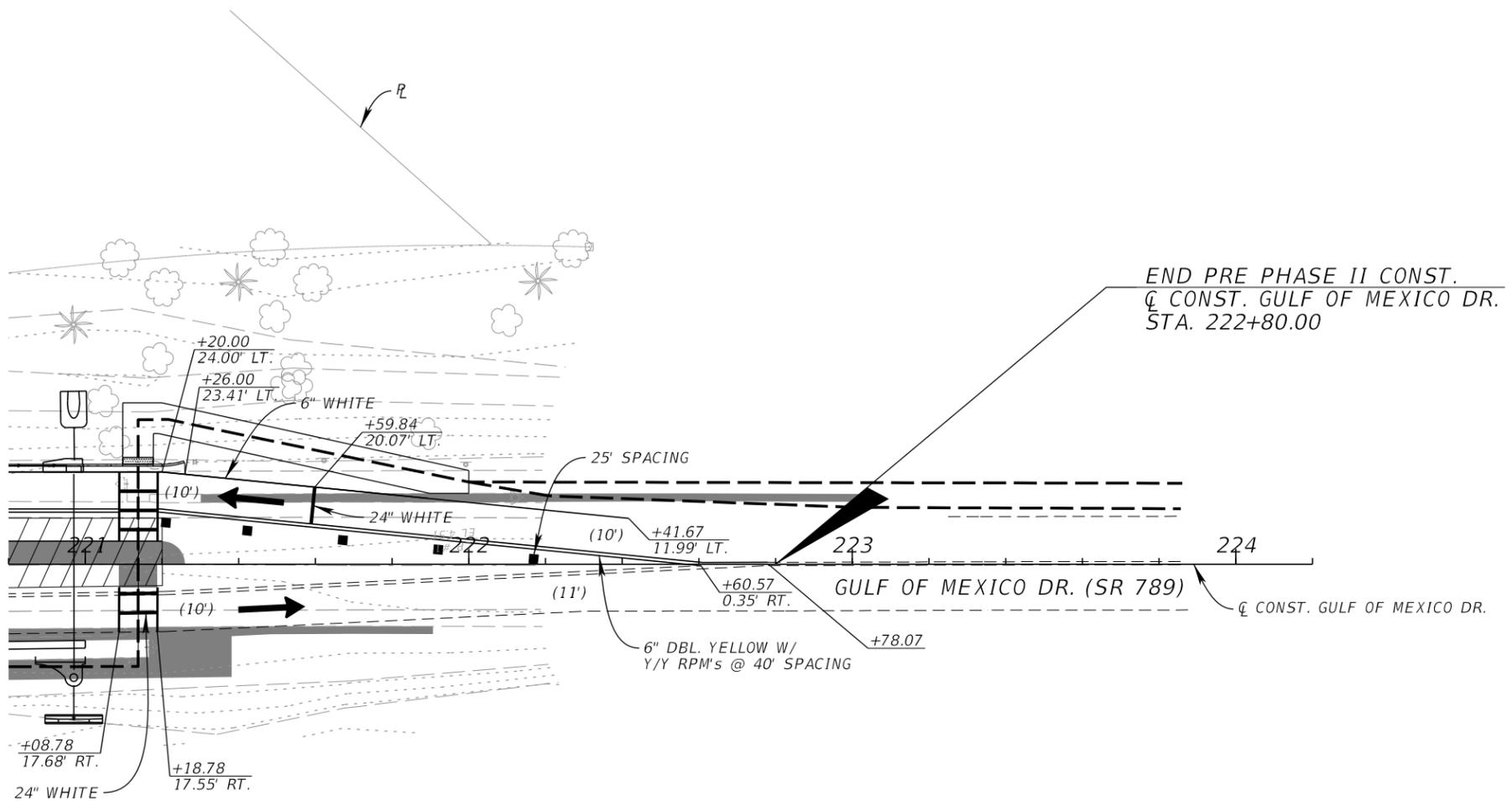
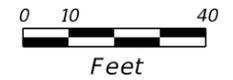


LEGEND

- 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				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	SR 789	MANATEE	453730-1-52-01	<p>TTCP PRE PHASE II (4)</p> <p>74</p>

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



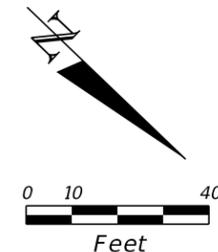
LEGEND

- 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

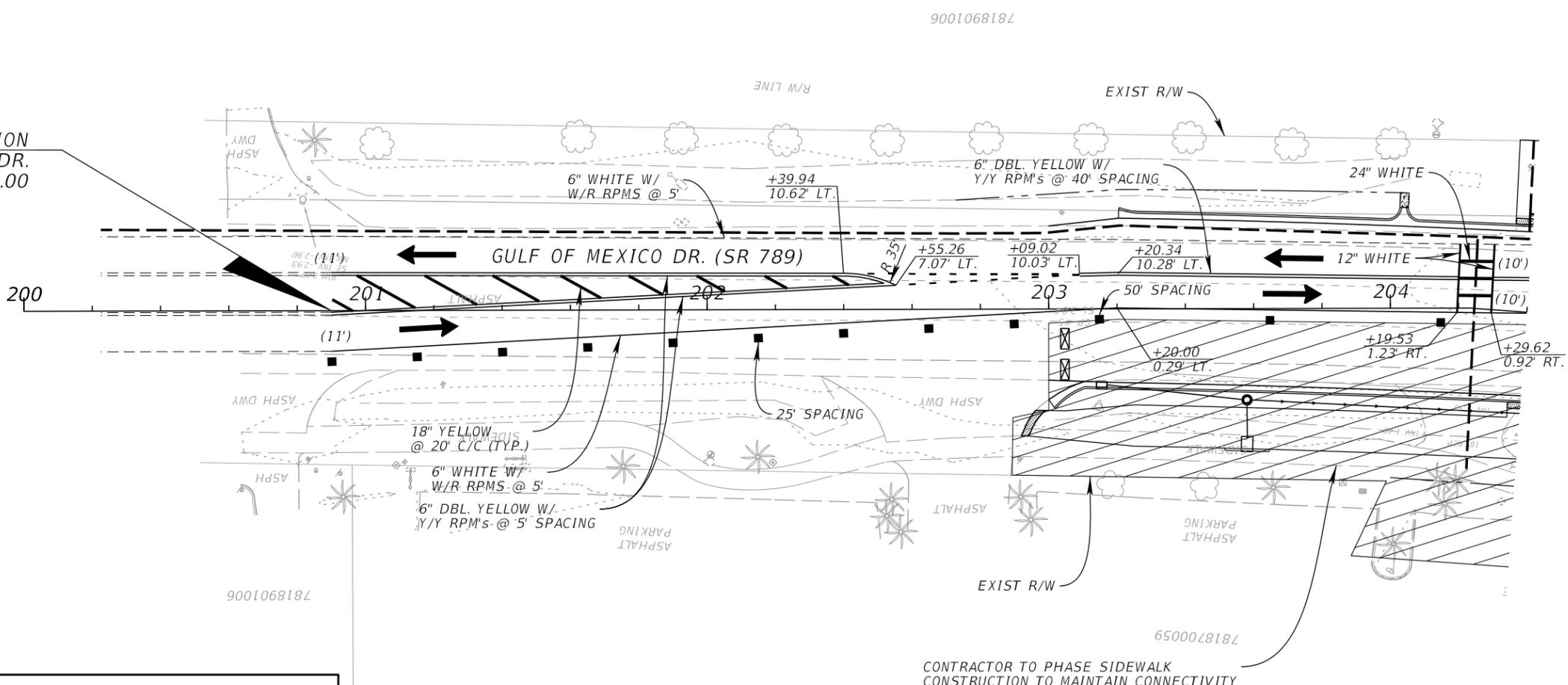
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
								SR 789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

**TTCP
PRE PHASE II (5)**

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BEGIN PHASE IIA CONSTRUCTION
 ☐ CONST. GULF OF MEXICO DR.
 STA. 200+90.00

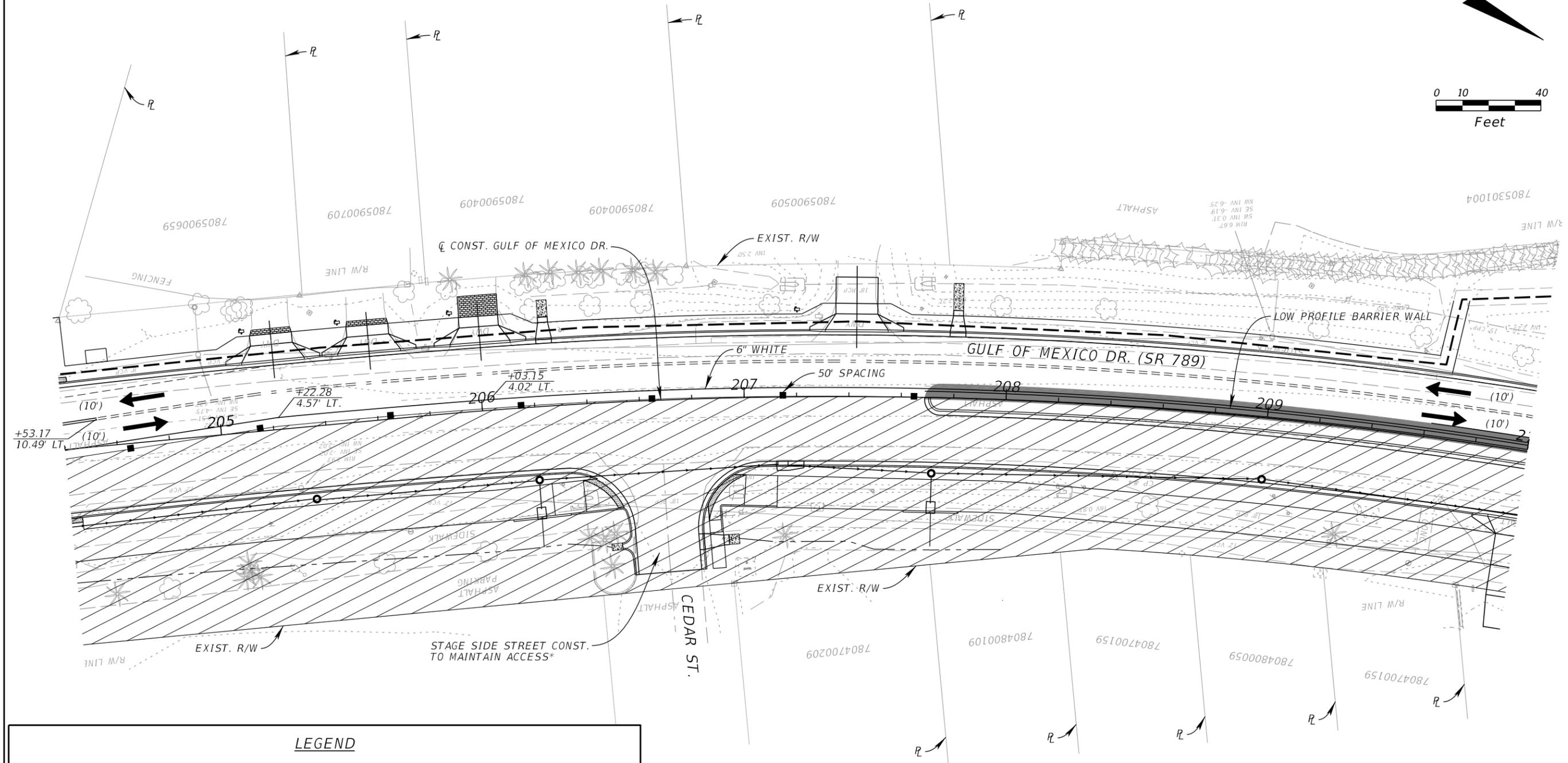
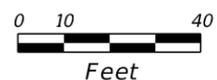
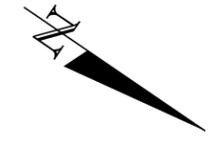


LEGEND	
	TEMPORARY PAVEMENT
	WORK ZONE AREA
	TEMP. OVERBUILD
	WORK ZONE SIGN
	TYPE III BARRICADE
	CHANNELIZING DEVICE
	PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	DIRECTIONAL ARROW
	SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS				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	
						SR 789	MANATEE	453730-1-52-01	76

TTCP
 PHASE IIA (1)

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



LEGEND

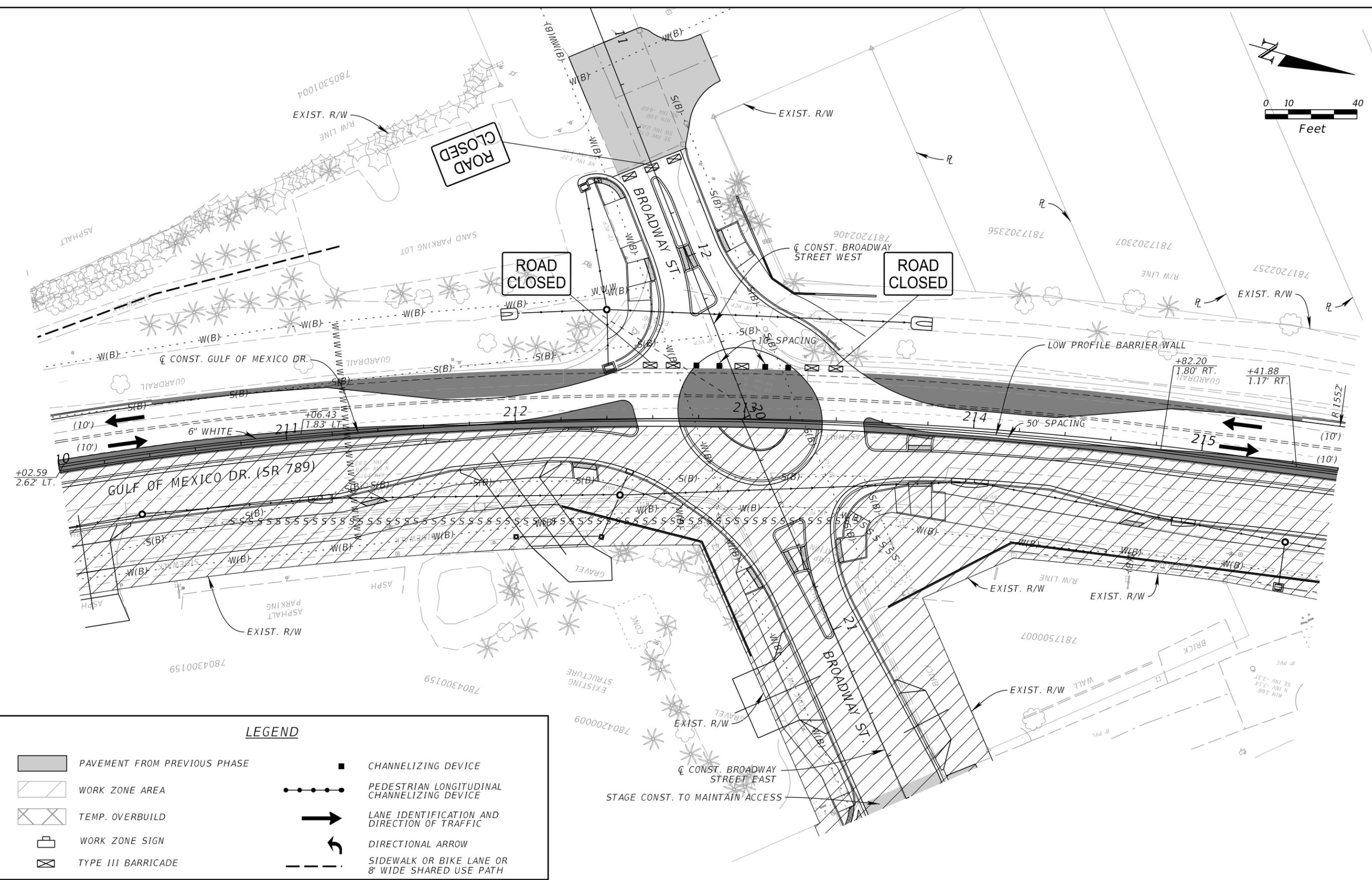
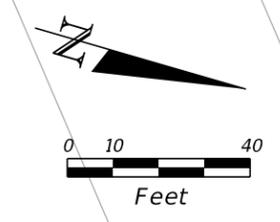
	PAVEMENT FROM PREVIOUS PHASE		CHANNELIZING DEVICE
	WORK ZONE AREA		PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
	TEMP. OVERBUILD		LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE SIGN		DIRECTIONAL ARROW
	TYPE III BARRICADE		SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

*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				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	
								SR 789	MANATEE

**TTCP
PHASE IIA (2)**

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

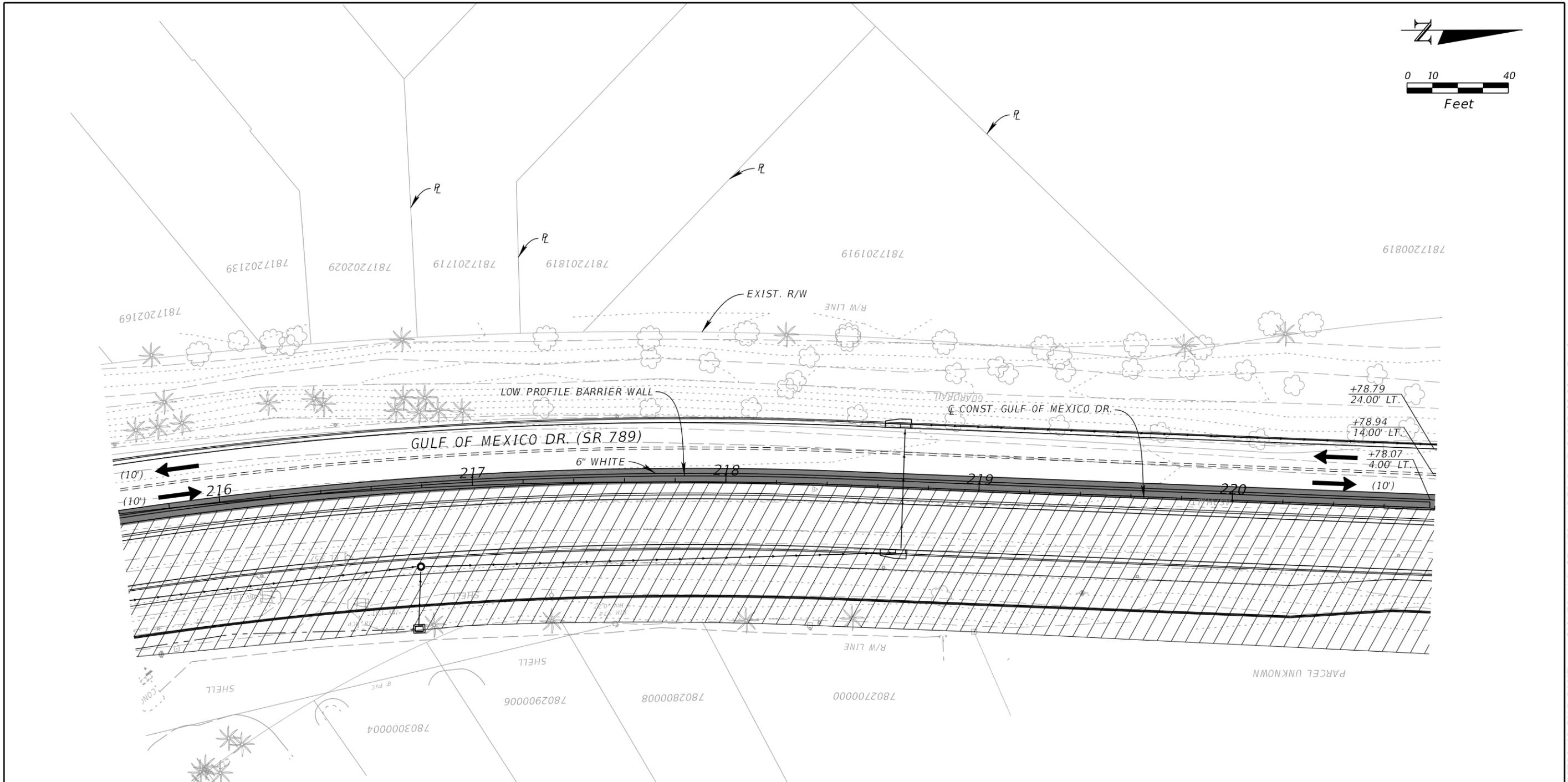
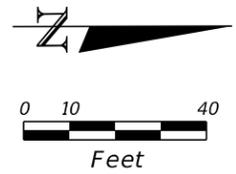


REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

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

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			TTCP PHASE IIA (3)	SHEET NO. 78
ROAD NO.		COUNTY	FINANCIAL PROJECT ID					
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.



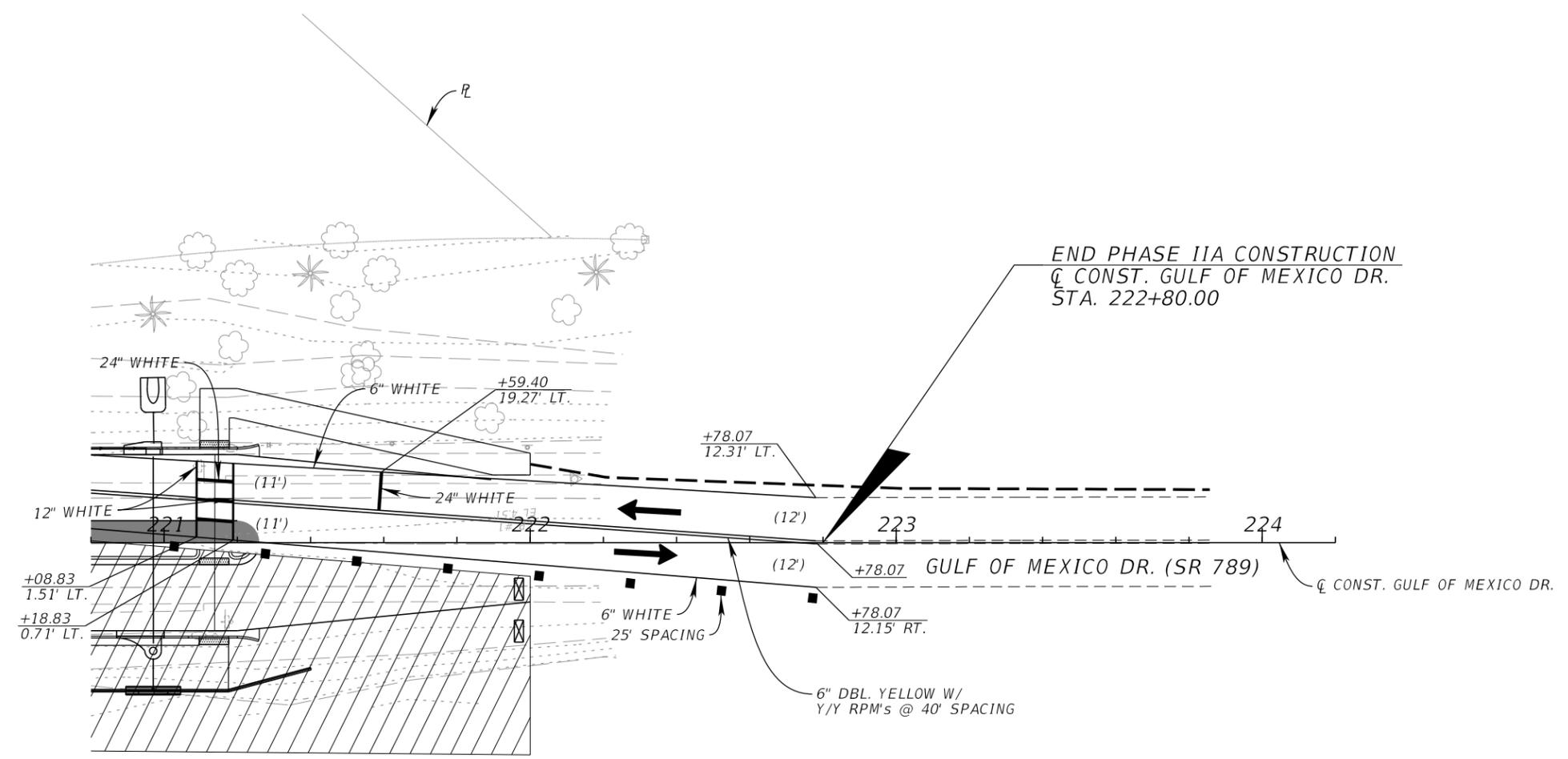
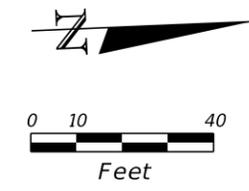
LEGEND

- 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				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	
								SR 789	MANATEE

**TTCP
PHASE IIA (4)**

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



END PHASE IIA CONSTRUCTION
 CL CONST. GULF OF MEXICO DR.
 STA. 222+80.00

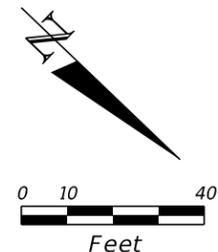
REVISIONS		ENGINEER OF RECORD	
DATE	DESCRIPTION	DATE	DESCRIPTION

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

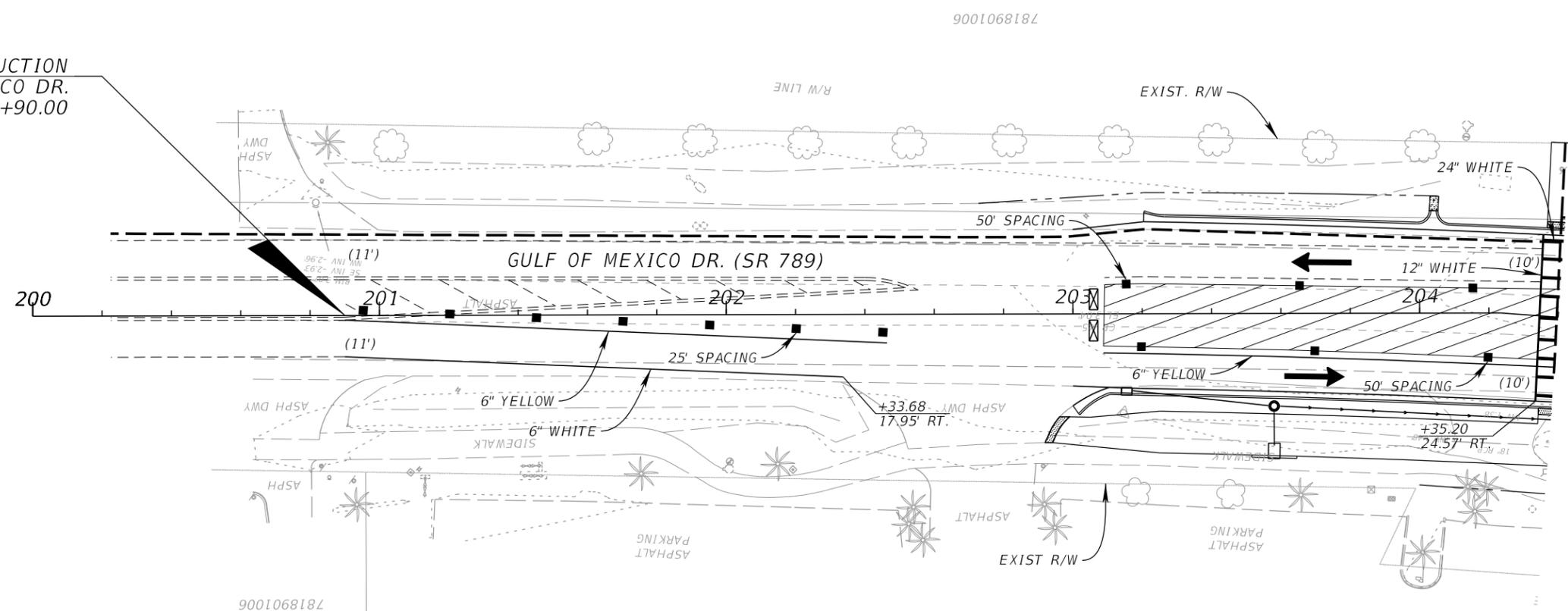
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 789	MANATEE	453730-1-52-01	80

TTCP
PHASE IIA (5)

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BEGIN PHASE IIB CONSTRUCTION
 Q CONST. GULF OF MEXICO DR.
 STA. 200+90.00

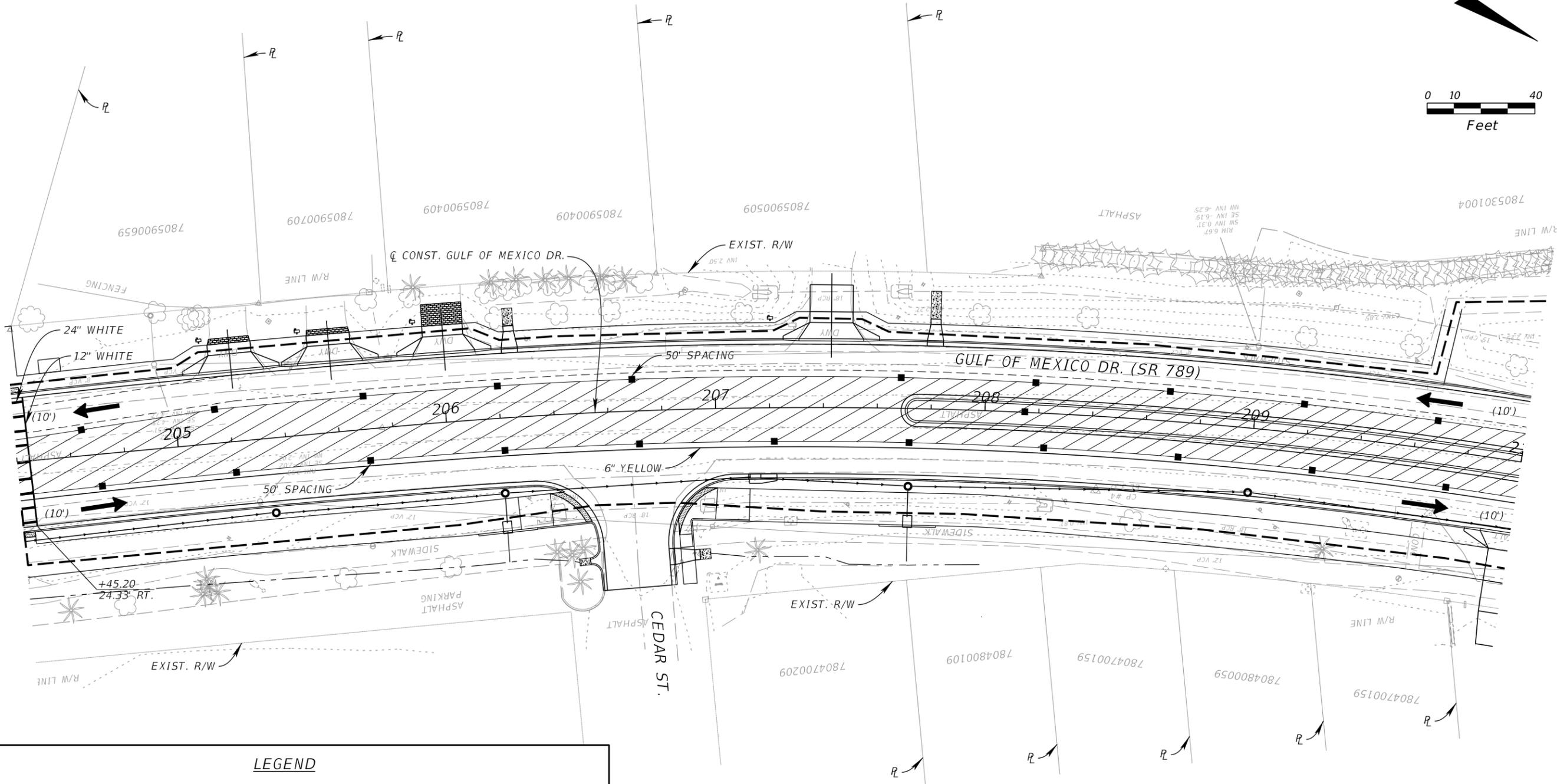
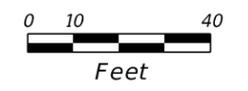
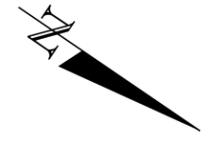


LEGEND	
	PAVEMENT FROM PREVIOUS PHASE
	WORK ZONE AREA
	TEMP. OVERBUILD
	WORK ZONE SIGN
	TYPE III BARRICADE
	CHANNELIZING DEVICE
	PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	DIRECTIONAL ARROW
	SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS				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	
						SR 789	MANATEE	453730-1-52-01	81

TTCP
 PHASE IIB (1)

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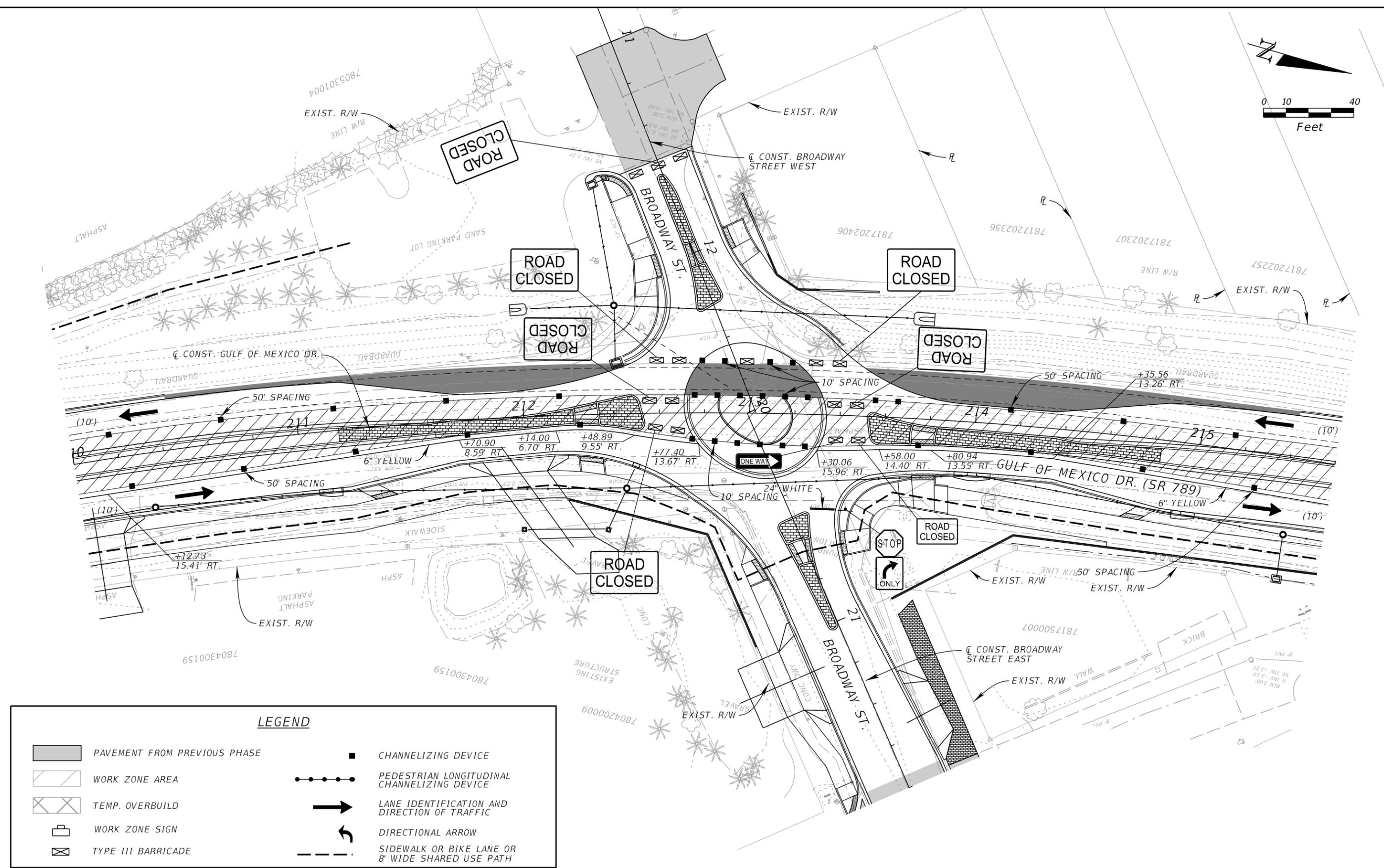
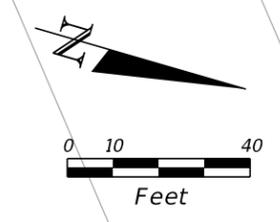


LEGEND	
	PAVEMENT FROM PREVIOUS PHASE
	WORK ZONE AREA
	TEMP. OVERBUILD
	WORK ZONE SIGN
	TYPE III BARRICADE
	CHANNELIZING DEVICE
	PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	DIRECTIONAL ARROW
	SIDEWALK OR BIKE LANE OR 8' WIDE SHARED USE PATH

REVISIONS				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	
						SR 789	MANATEE	453730-1-52-01	82

**TTCP
PHASE IIB (2)**

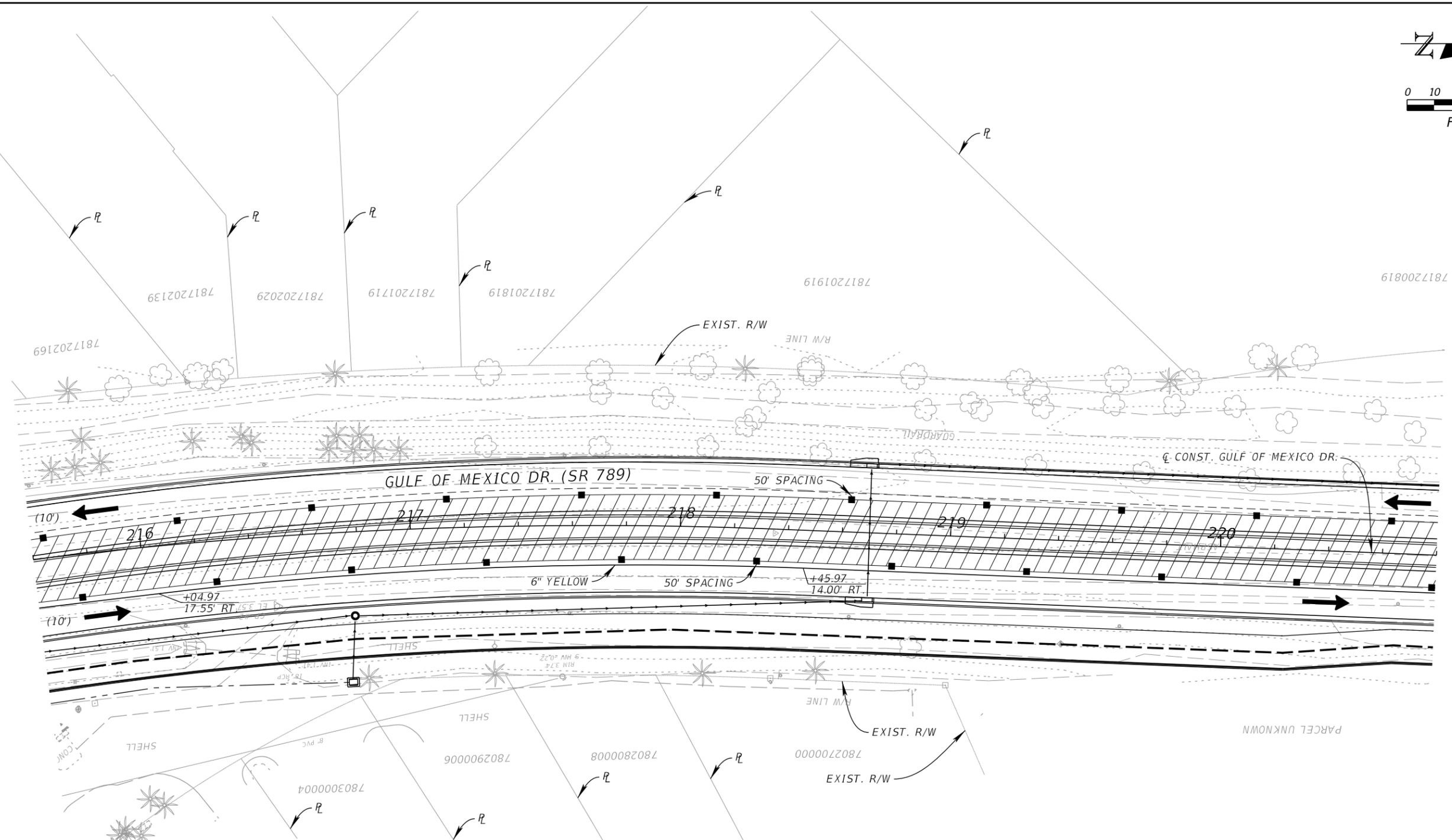
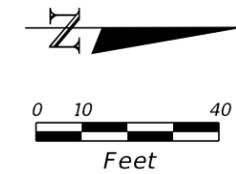
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LEGEND	
	PAVEMENT FROM PREVIOUS PHASE
	WORK ZONE AREA
	TEMP. OVERBUILD
	WORK ZONE SIGN
	TYPE III BARRICADE
	CHANNELIZING DEVICE
	PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	DIRECTIONAL ARROW
	SIDEWALK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

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	SR 789	MANATEE	453730-1-52-01	83
					TTCP PHASE IIB (3)			

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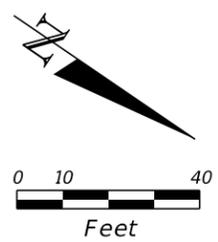
LEGEND

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

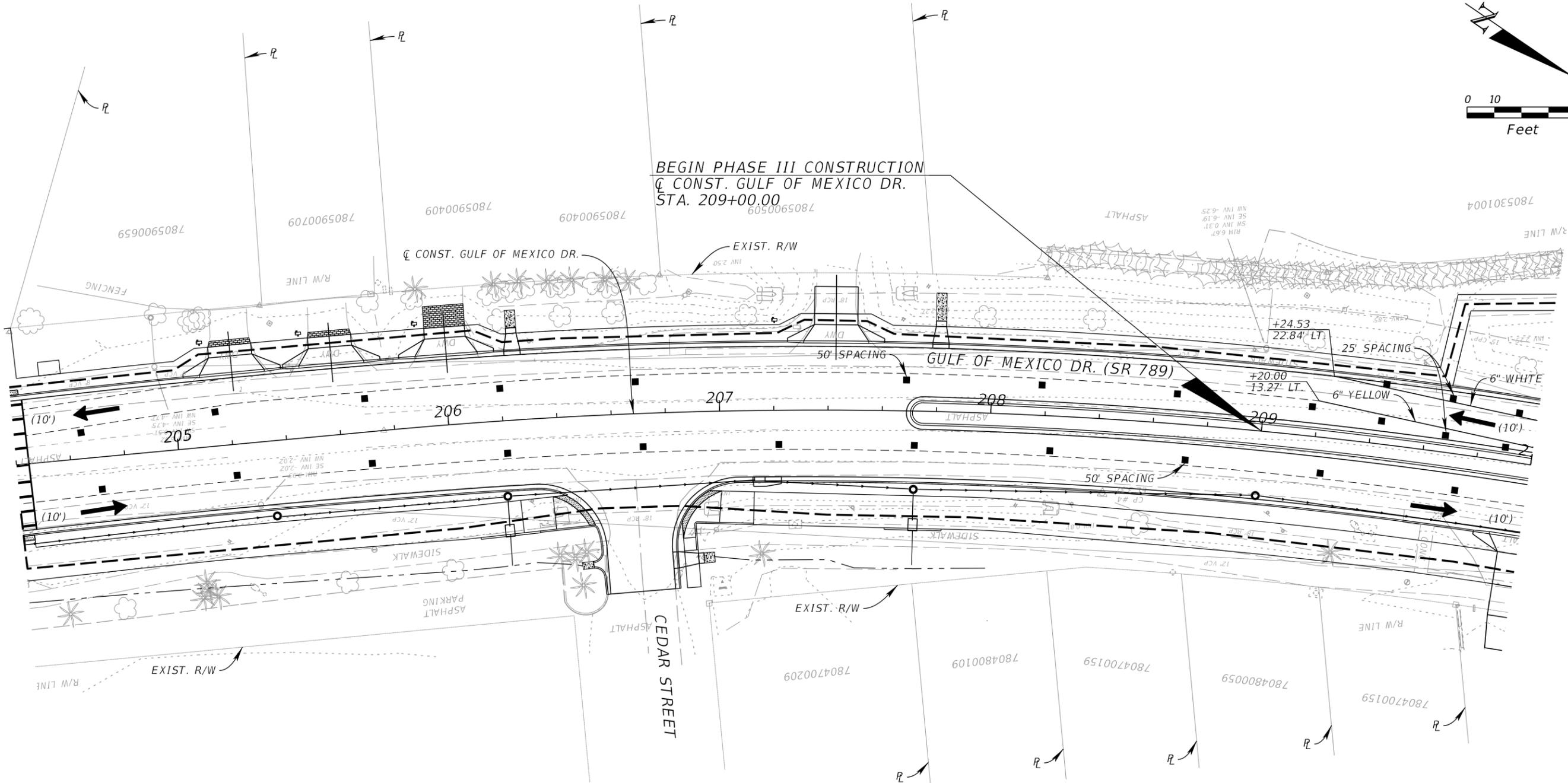
REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	SR 789	MANATEE	453730-1-52-01	84

**TTCP
PHASE IIB (4)**

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BEGIN PHASE III CONSTRUCTION
 @ CONST. GULF OF MEXICO DR.
 STA. 209+00.00



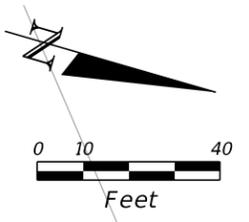
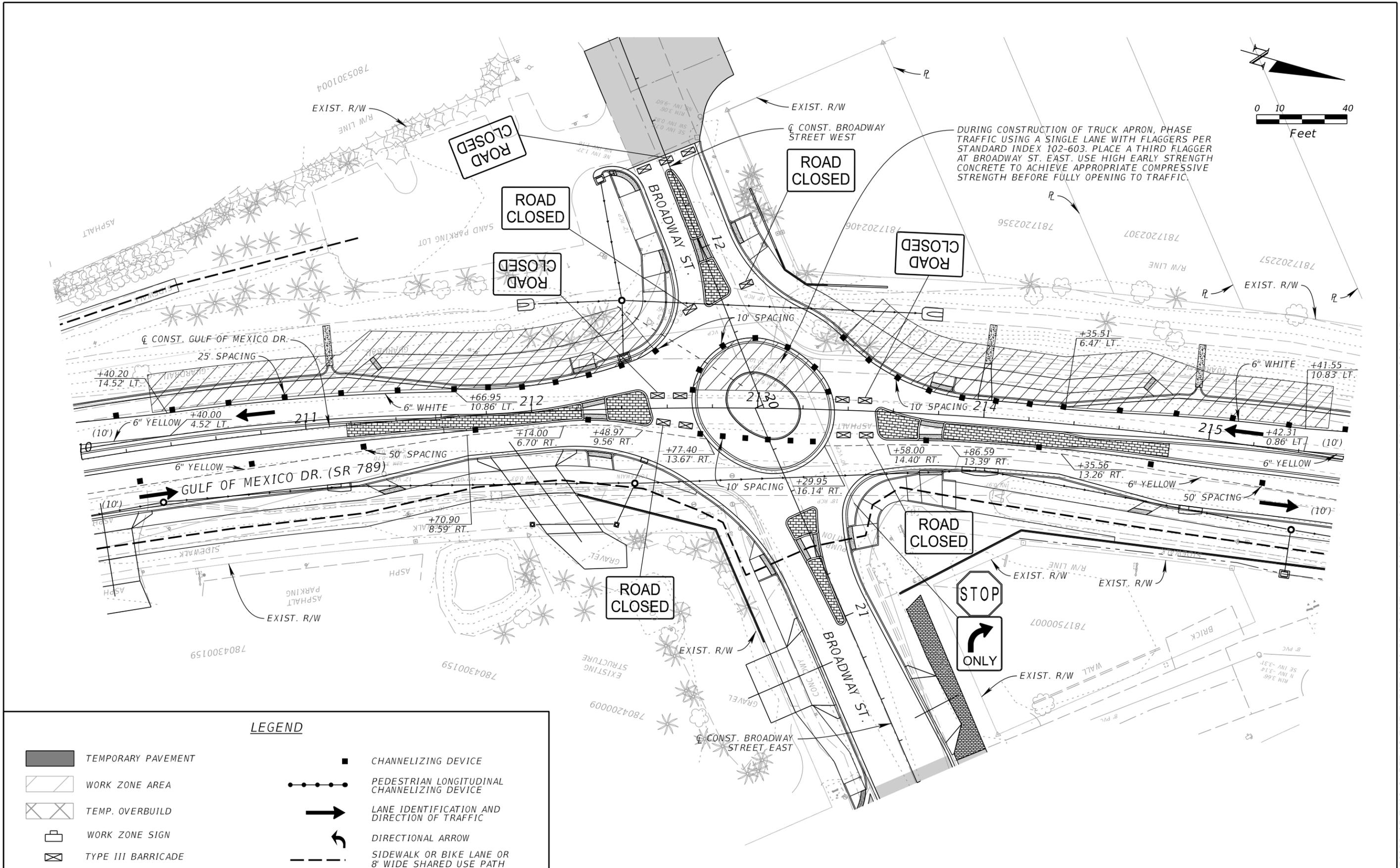
LEGEND

- 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				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	SR 789	MANATEE	453730-1-52-01	86

**TTCP
 PHASE III (1)**

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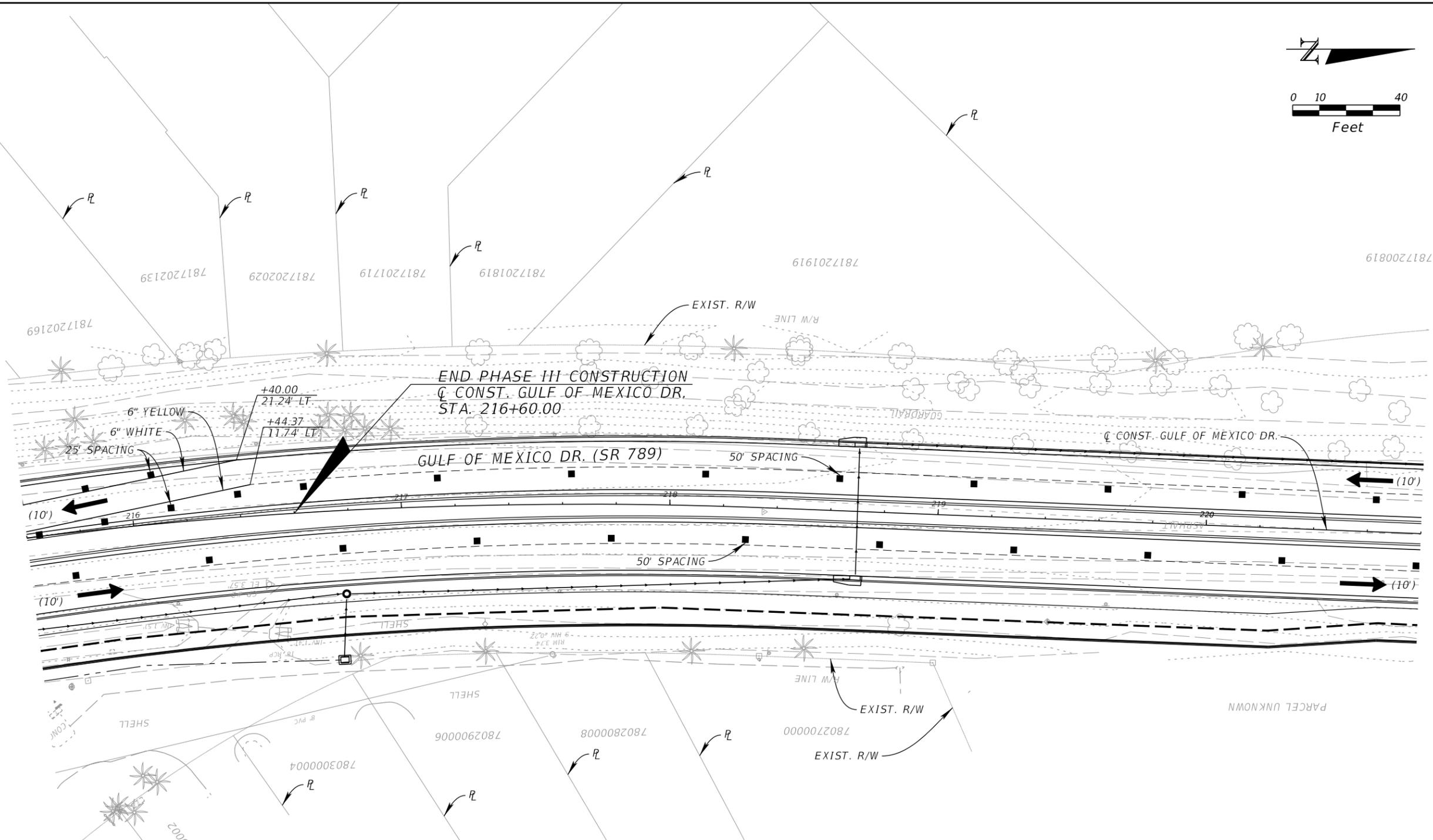
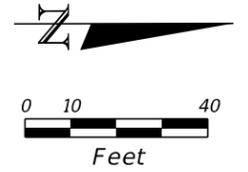
DURING CONSTRUCTION OF TRUCK APRON, PHASE TRAFFIC USING A SINGLE LANE WITH FLAGGERS PER STANDARD INDEX 102-603. PLACE A THIRD FLAGGER AT BROADWAY ST. EAST. USE HIGH EARLY STRENGTH CONCRETE TO ACHIEVE APPROPRIATE COMPRESSIVE STRENGTH BEFORE FULLY OPENING TO TRAFFIC.

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				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	SR 789	MANATEE	453730-1-52-01	TTCP PHASE III (2) 87

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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

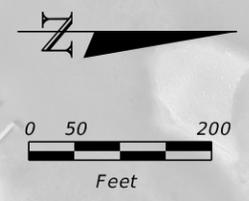
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
								SR 789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

**TTCP
PHASE III (3)**

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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



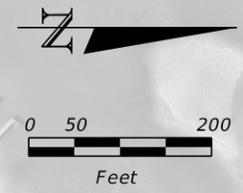
DETOUR PHASE IB

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

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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:
CEDAR STREET CLOSED	FOLLOW DETOUR



**DETOUR PRE PHASE IIA
CEDAR STREET CONST.**

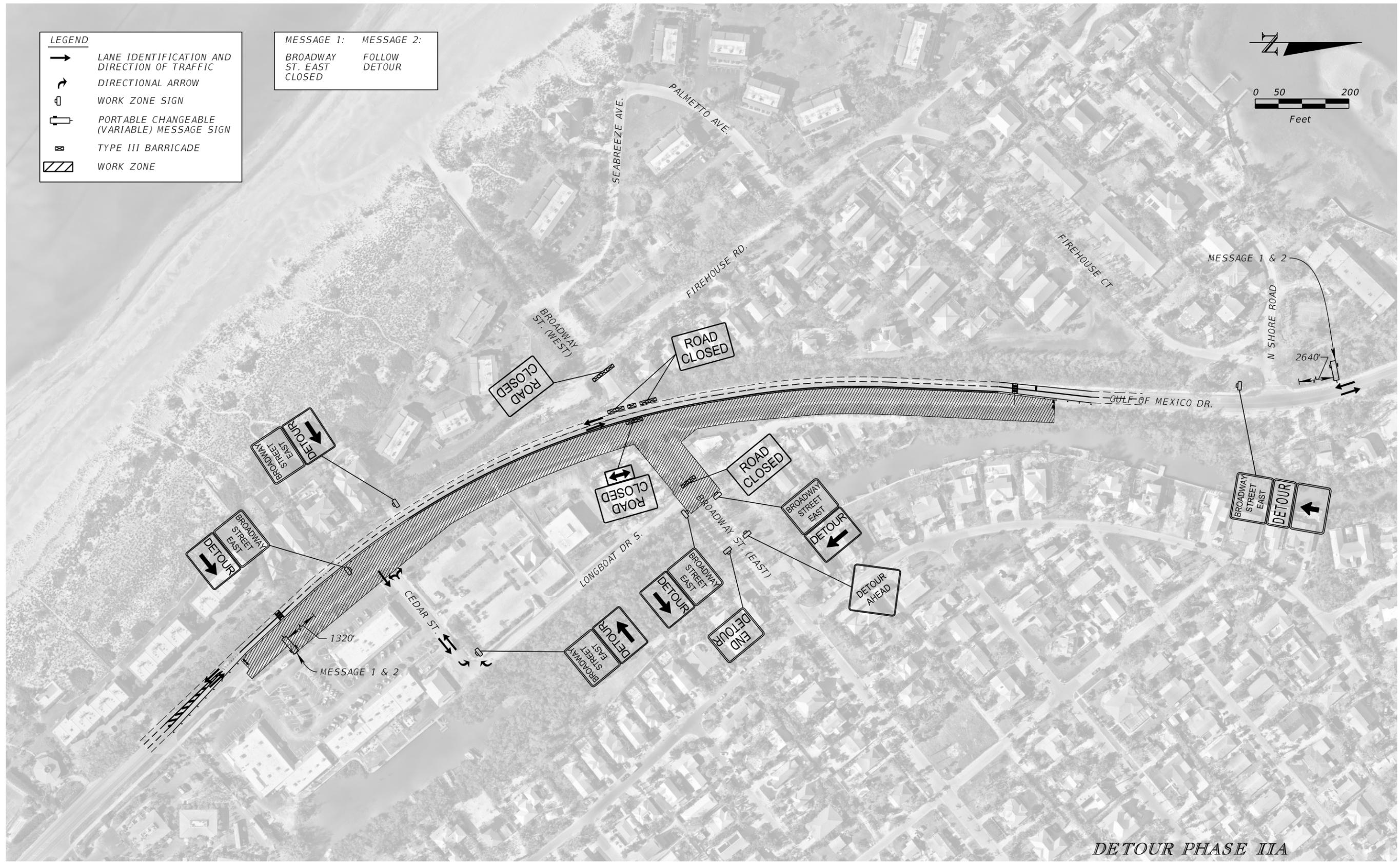
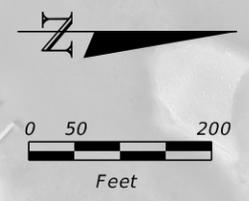
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 789	MANATEE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

**TEMPORARY TRAFFIC
CONTROL PLAN**

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

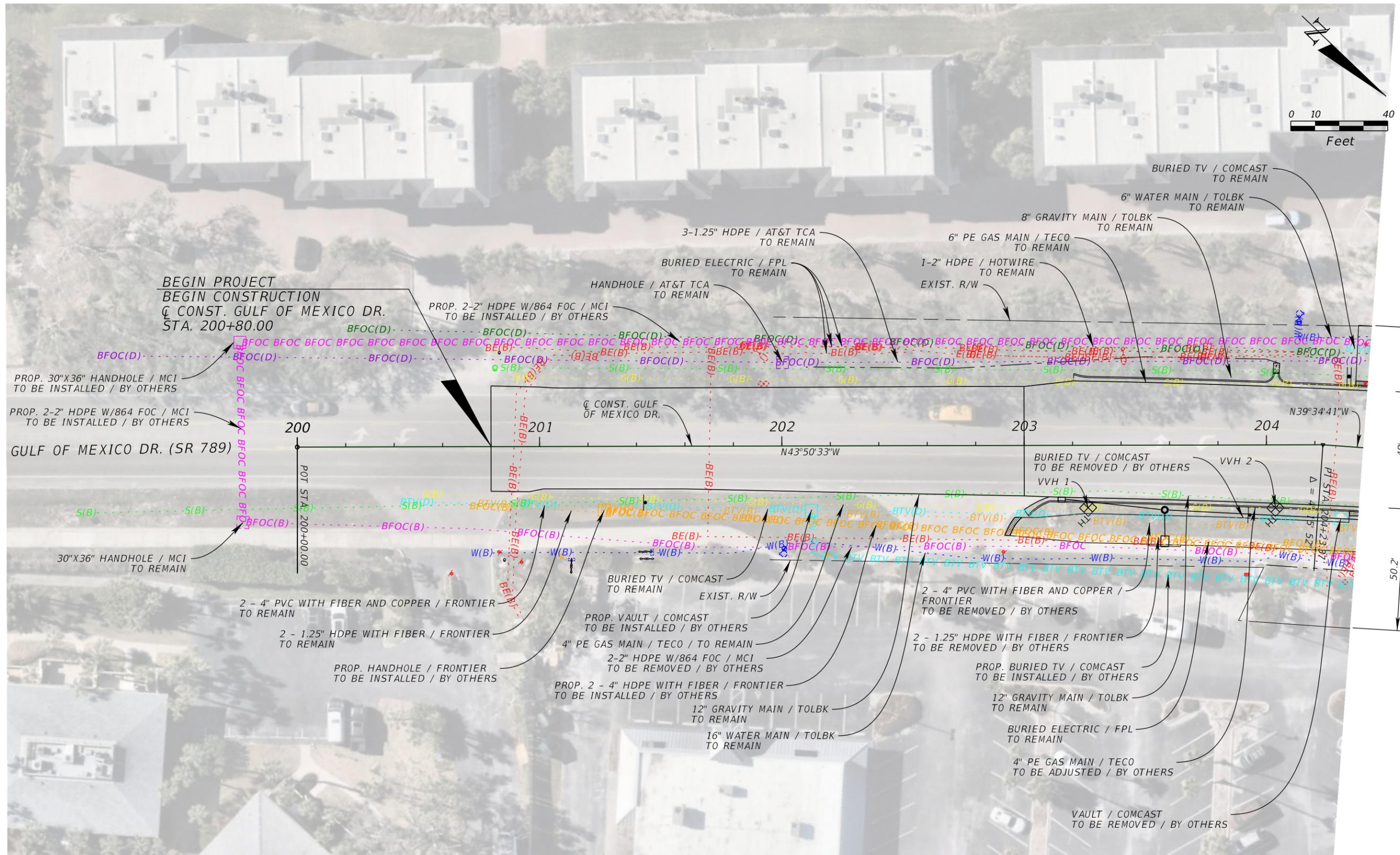
MESSAGE 1:	MESSAGE 2:
BROADWAY ST. EAST CLOSED	FOLLOW DETOUR



**DETOUR PHASE IIA
BROADWAY EAST CONST.**

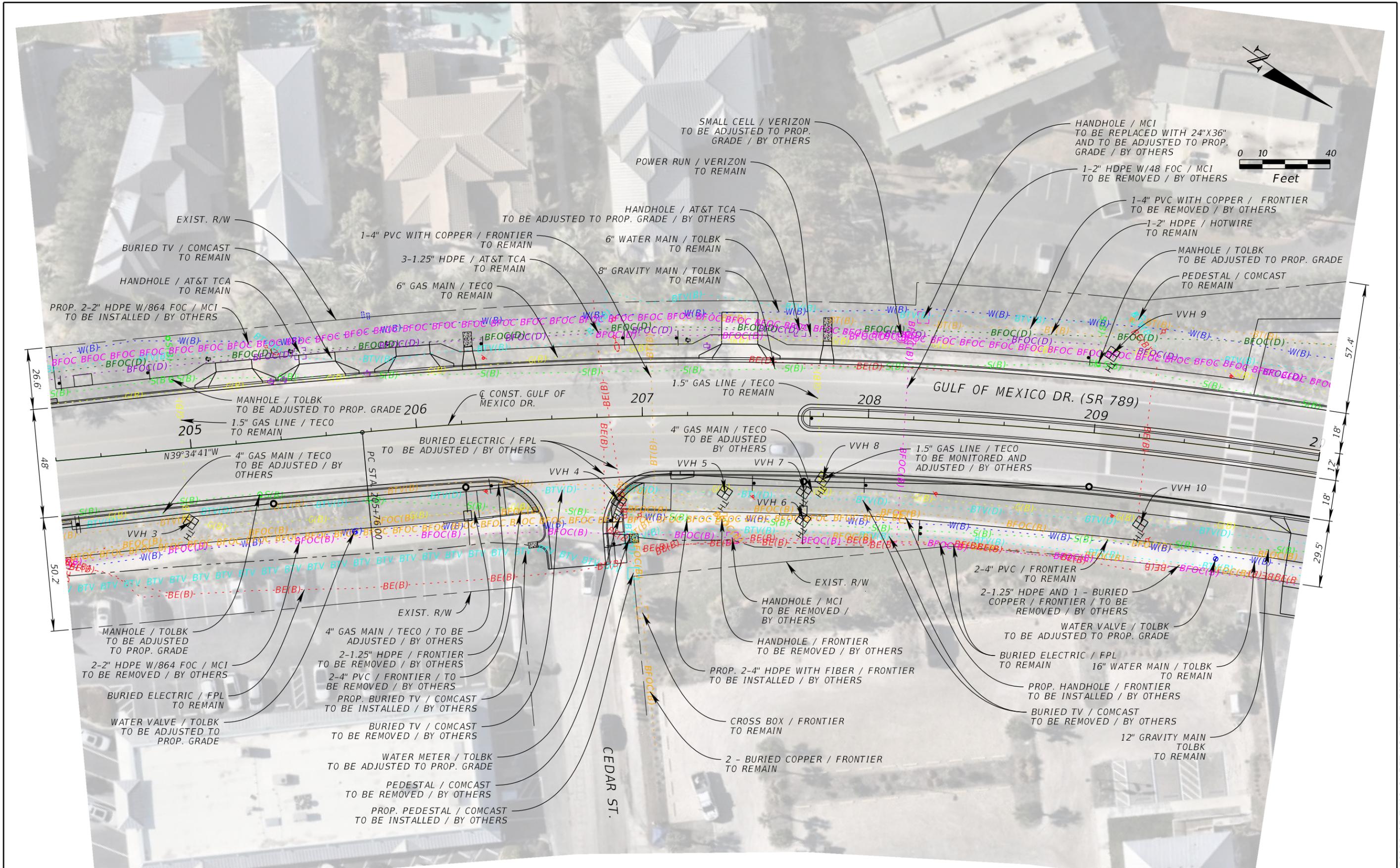
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 789	MANATEE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

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REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
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			GARY J. NADEAU, P.E. LICENSE NUMBER: 49629 KIMLEY-HORN AND ASSOCIATES, INC. 1800 2ND STREET, SUITE 900 SARASOTA, FL 34236	SR 789	MANATEE	453730-1-52-01	92
UTILITY ADJUSTMENT (1)							

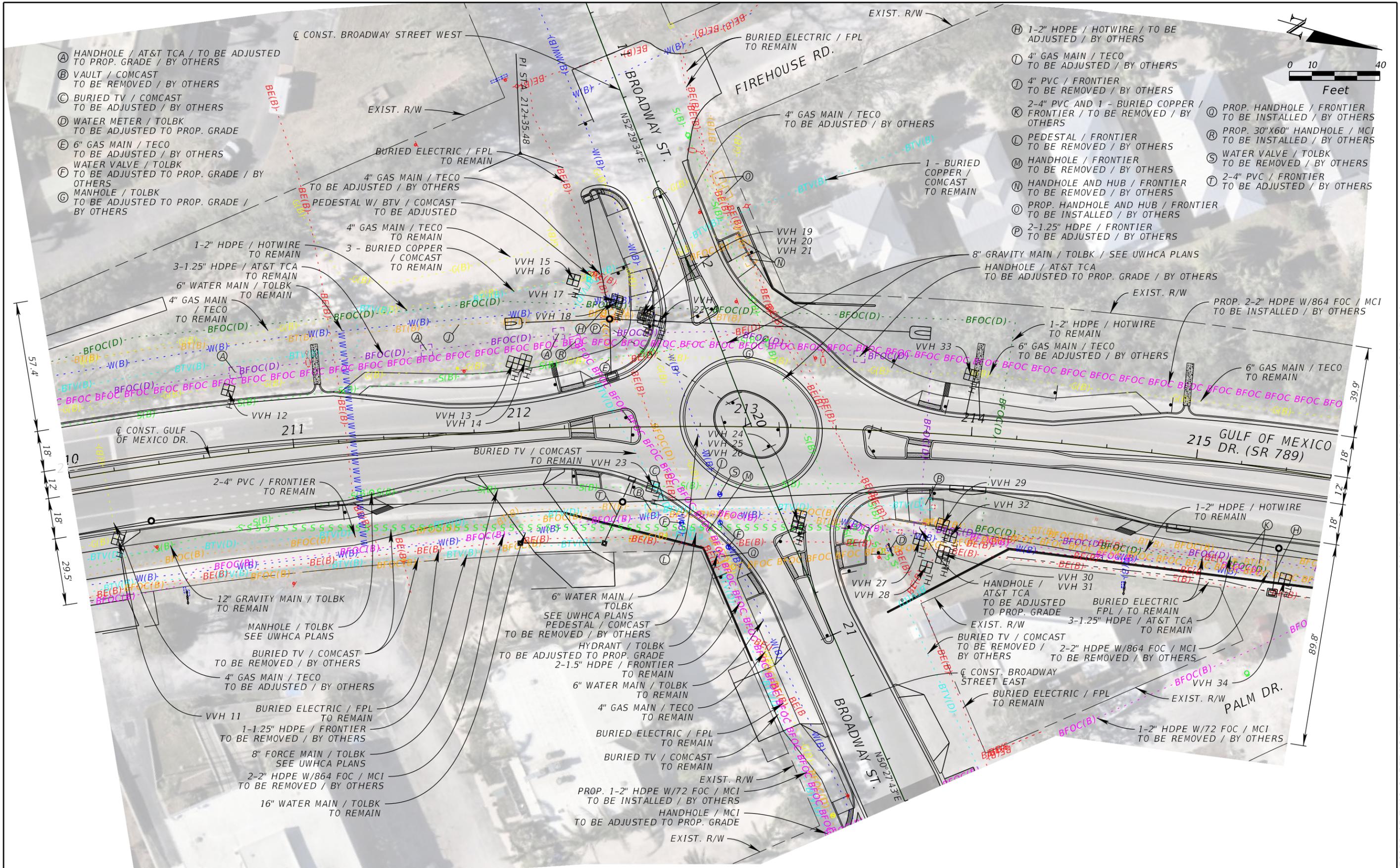
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REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 789	MANATEE	453730-152-01	93

UTILITY ADJUSTMENT (2)

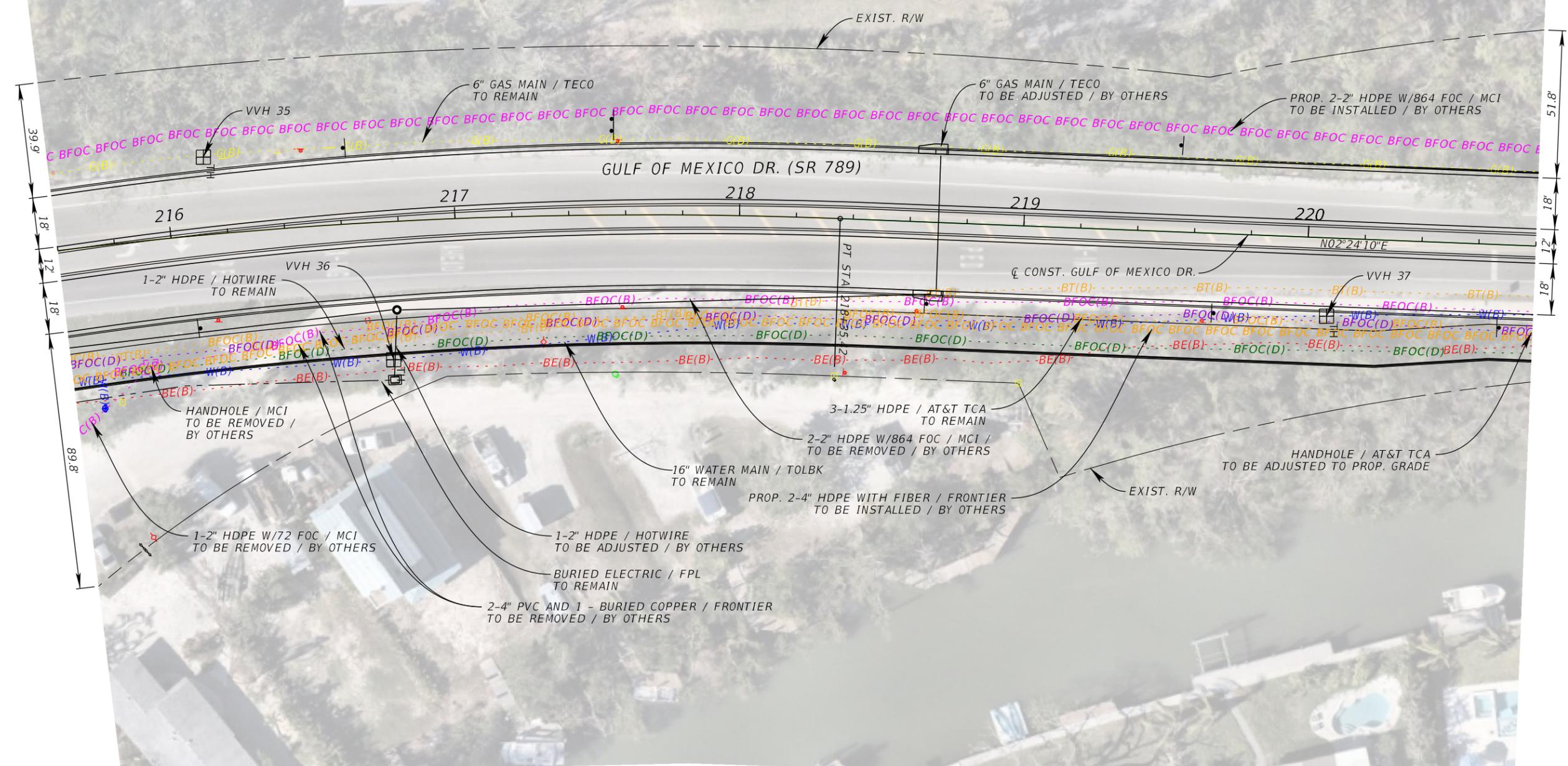
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REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 789	MANATEE	453730-152-01	94

UTILITY ADJUSTMENT (3)

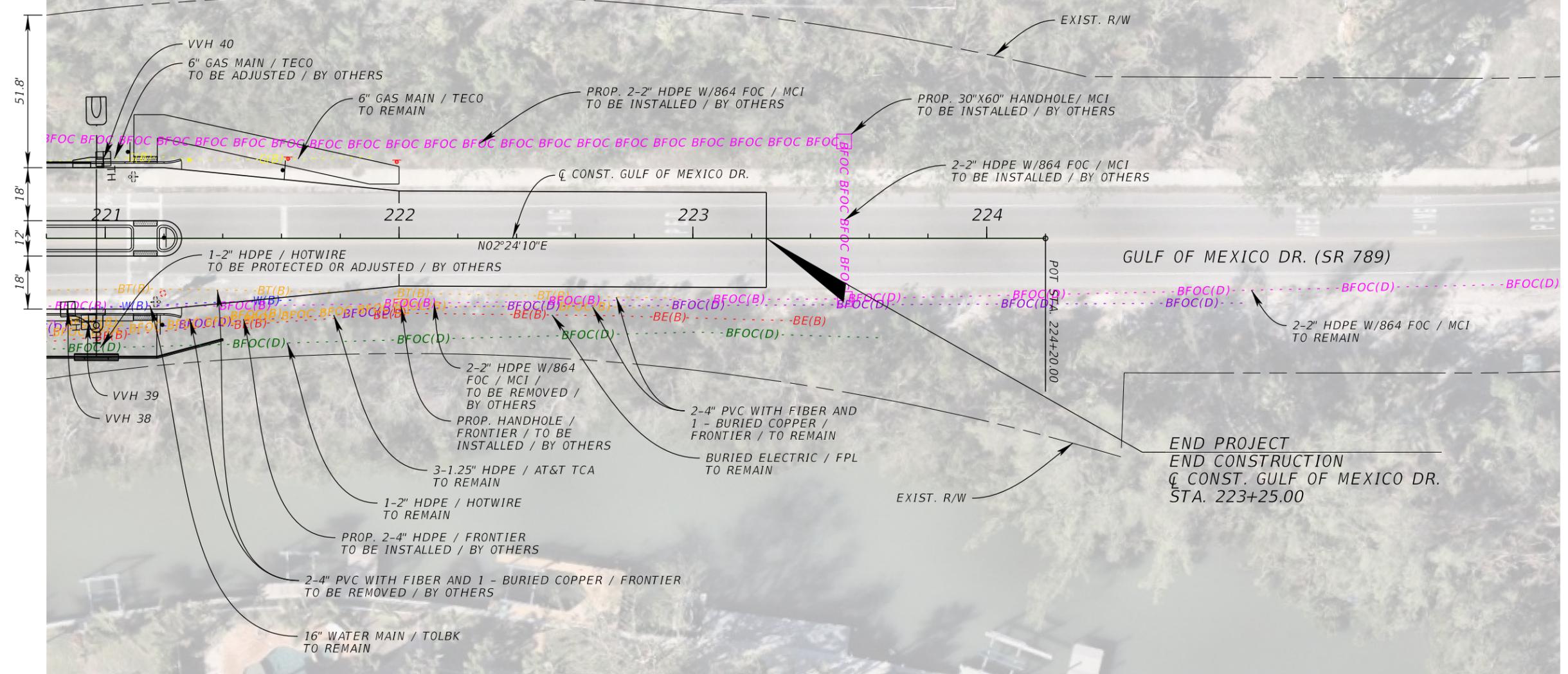
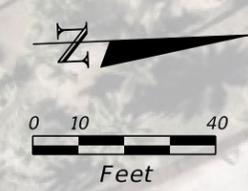
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
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						SR 789	MANATEE	453730-1-52-01	95

UTILITY ADJUSTMENT (4)

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END PROJECT
END CONSTRUCTION
CL CONST. GULF OF MEXICO DR.
STA. 223+25.00

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	
								SR 789	MANATEE

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