CONTRACT PLANS COMPONENTS

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS
INTELLIGENT TRANSPORTATION SYSTEMS PLANS
LIGHTING PLANS
STRUCTURE PLANS

INDEX OF ROADWAY PLANS

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12-23	TYPICAL SECTIONS
24-27	SUMMARY OF DRAINAGE STRUCTURES
28	OPTIONAL MATERIALS TABULATION
29-30	PROJECT LAYOUT
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36-45	ROADWAY PLAN
46-57	ROADWAY PROFILES
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104	ROADWAY SOIL SURVEY
105-107	POND SOIL PROFILES
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109-140	CROSS SECTIONS
141-142	STORMWATER POLLUTION PREVENTION PLAN
143-216	TRAFFIC CONTROL PLANS
217-226	UTILITY ADJUSTMENTS
227-229	VERIFIED UTILITY LOCATES
SQ-1-SQ-24	SUMMARY OF QUANTITIES

DEVELOPMENTAL STANDARD PLANS (DSPs):

D528-001 DIRECTIONAL INDICATOR

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2025-26 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: IR___-___-__

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY 2025-26 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

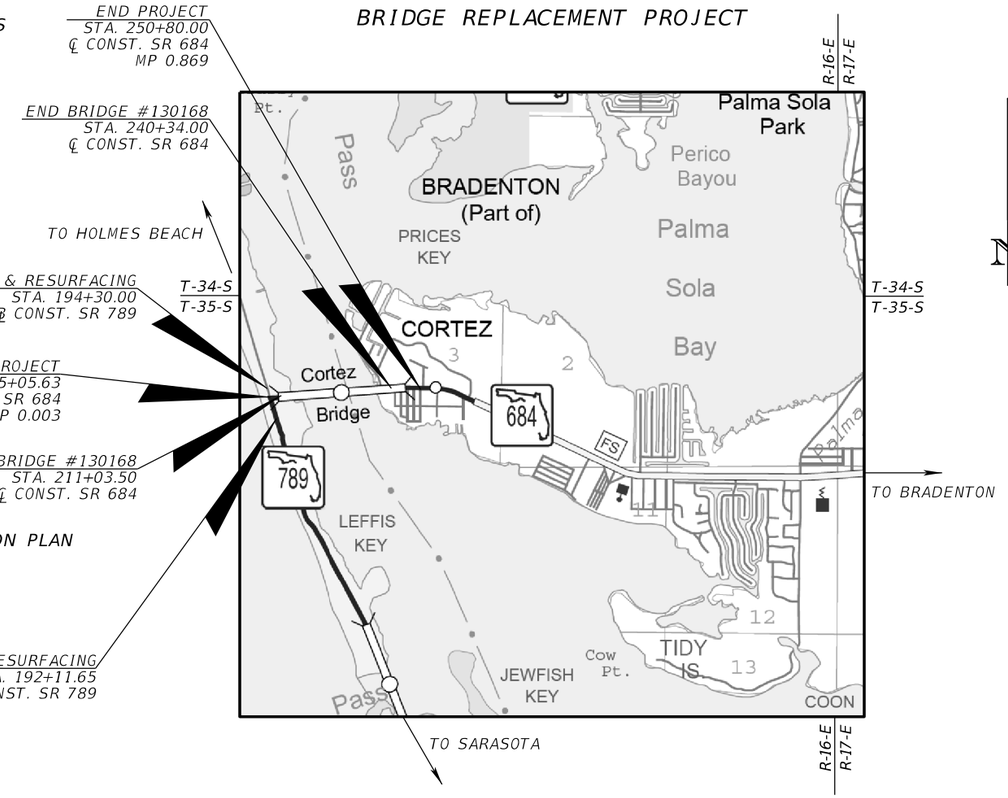
FINANCIAL PROJECT ID 430204-2-52-01

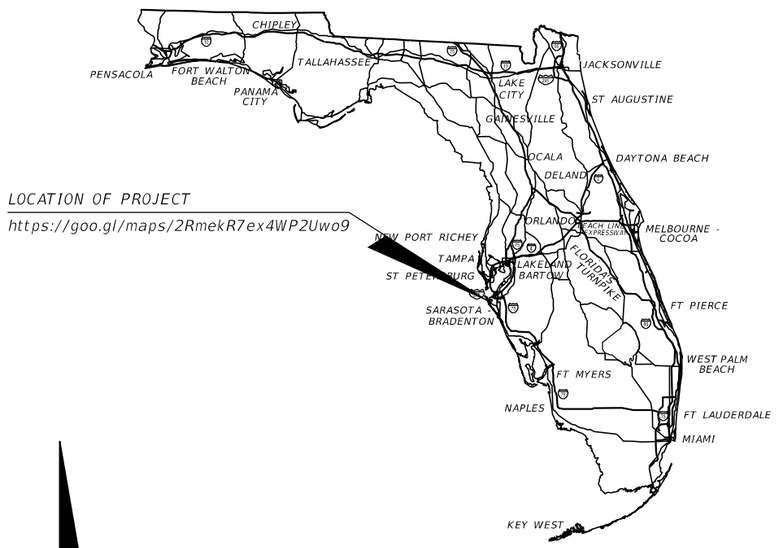
(FEDERAL FUNDS)

MANATEE COUNTY (13040)

STATE ROAD NO. 684

BRIDGE REPLACEMENT PROJECT





PHASE IV SUBMITTAL
MAY 2025

ROADWAY PLANS
ENGINEER OF RECORD:

WILLIAM C. COGAN, P.E.
P.E. NO.: 66438
H.W. LOCHNER, INC.
4300 WEST CYPRESS STREET, SUITE 500
TAMPA, FL, 33607
CONTRACT NO.: C9V47
VENDOR NO.: VF362338811001

FDOT PROJECT MANAGER:

AMY E. BLAIR, P.E., CPM

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T1920	26	1

THIS PROJECT TO BE LET TO CONTRACT WITH FINANCIAL PROJECT ID 430204-2-56-01.

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

NOTES TO REVIEWERS

==========

1. PER COORDINATION WITH THE DISTRICT DESIGN ENGINEER NO DESIGN VARIATIONS WILL BE REQUIRED AT THE BRADENTON BEACH POLICE DEPARTMENT DRIVEWAY, SINCE THIS WOULD ONLY BE USED IN AN EMERGENCY WHERE THE INTERSECTION OF GULF DRIVE AND CORTEZ ROAD IS BLOCKED.

2. PER DIRECTION FROM DISTRICT 1, THESE CONTRACT PLANS MATCH THE FORMAT DESCRIBED IN PART 3 OF THE 2022 FDOT DESIGN MANUAL.

3. A TOTAL DURATION OF 1095 DAYS WAS ASSUMED. THE PHASE DURATION ASSUMPTIONS, LISTED BELOW, ARE SHOWN IN THE SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS. THE DURATION OF EACH CONSTRUCTION PHASE IS PENDING THE DISTRICT 1 CONSTRUCTION MEMO AND WILL BE SHOWN IN THE FINAL ROADWAY PLANS.

   PHASE 1A = 328 DAYS
   PHASE 1B-1 = 109 DAYS
   PHASE 1B-2 = 109 DAYS
   PHASE 2 = 417 DAYS
   PHASE 3 = 132 DAYS*
   PHASE 3-1 = 25 DAYS
   PHASE 3-2 = 25 DAYS
   PHASE 3-3 = 25 DAYS
   PHASE 3-4 = 25 DAYS
   PHASE 3-5 = 32 DAYS

   *PHASE 3 IS A SUMMATION OF PHASE 3-1 THROUGH PHASE 3-5.

4. A DESIGN VARIATION MEMO FOR (A) BICYCLE LANE WIDTH ON SR 684, (B) LENGTH OF VERTICAL CURVE ON 125TH ST. W., (C) MINIMUM K VALUE FOR SAG VERTICAL CURVE ON 125TH ST. W., AND (D) MINIMUM TRAVEL WAY WIDTH FOR TURNING ROADWAYS WAS APPROVED ON 2/20/2025.

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

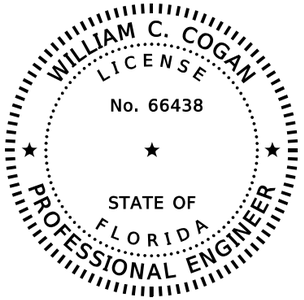
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

NOTES TO REVIEWERS

SHEET NO.
NTR-1



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

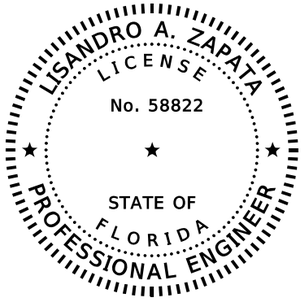
ON THE DATE ADJACENT TO THE SEAL

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H.W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA 33607
WILLIAM C. COGAN, P.E. NO. 66438

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
1	KEY SHEET
2	SIGNATURE SHEET
3-8	SUMMARY OF PAY ITEMS
12-23	TYPICAL SECTIONS
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143-165	TRAFFIC CONTROL PLANS
167-187	TRAFFIC CONTROL PLANS
189-196	TRAFFIC CONTROL PLANS
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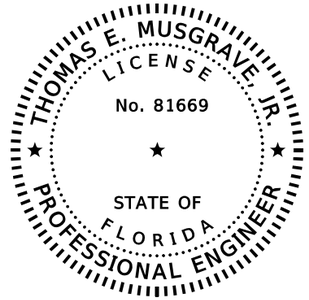
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H.W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA 33607
LISANDRO A. ZAPATA, P.E. NO. 58822

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
9-11	DRAINAGE MAP
24-27	SUMMARY OF DRAINAGE STRUCTURES
28	OPTIONAL MATERIALS TABULATION
72-95	DRAINAGE STRUCTURES
96-97	DRAINAGE DETAILS
98-100	POND DETAIL
141-142	STORMWATER POLLUTION PREVENTION PLAN



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

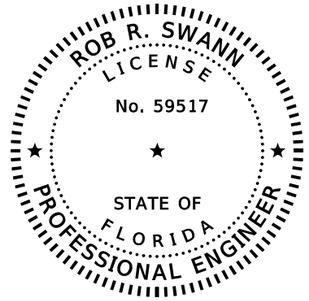
ON THE DATE ADJACENT TO THE SEAL

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TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637
THOMAS E. MUSGRAVE, JR., P.E. NO. 81669

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
104	ROADWAY SOIL SURVEY
105-107	POND SOIL PROFILES



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

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

H.W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA 33607
ROB R. SWANN, P.E. NO. 59517

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
166	TRAFFIC CONTROL PLANS
188	TRAFFIC CONTROL PLANS
197	TRAFFIC CONTROL PLANS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SIGNATURE SHEET

SHEET NO. 2

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1920

LEAD PROJECT : 430204-2-52-01 | DISTRICT : 01 | COUNTY/SECTION : 13040000

PROJECT(S) : 43020425201, 43020425601 | COUNTY : MANATEE

0001 SUMMARY OF STRUCTURES

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43020425201	43020425601	43020425201BR# 130168	QUANTITY TOTAL
P		0103- 1- 26	TEMPORARY WORK STRUCTURE, PROJECT NUMBER 430204-2-52-01 43020425201 BR. NO. 130168	LS			1.000	1.000
		0110- 3-	REMOVAL OF EXISTING STRUCTURES/BRIDGES 43020425201 BR. NO. 130168	(LS)			1.000	1.000
		0400- 0- 11	CONCRETE CLASS NS, GRAVITY WALL INDEX 400-011	CY			41.300	41.300
		0400- 1- 30	CONCRETE, CLASS I (SEAL)	CY			1003.800	1003.800
		0400- 2- 10	CONCRETE CLASS II, APPROACH SLABS	CY			166.600	166.600
		0400- 4- 4	CONCRETE CLASS IV, SUPERSTRUCTURE	CY			6006.800	6006.800
		0400- 4- 5	CONCRETE CLASS IV, BRIDGE SUBSTRUCTURE	CY			225.600	225.600
		0400- 4- 8	CONC CLASS IV, BULKHEAD	CY			148.800	148.800
		0400- 4- 11	CONC CLASS IV, RETAINING WALLS	CY			239.700	239.700
		0400- 4- 25	CONCRETE CLASS IV, MASS, SUBSTRUCTURE	CY			10104.100	10104.100
		0400- 7- 1	BRIDGE DECK GROOVING	SY			14515.000	14515.000
		0400- 9- 1	BRIDGE DECK PLANING	SY			14515.000	14515.000
		0400-147-	COMPOSITE NEOPRENE PADS	CF			131.400	131.400
		0415- 1- 3	REINFORCING STEEL- RETAINING WALL	LB			32656.000	32656.000
		0415- 1- 4	REINFORCING STEEL - BRIDGE SUPERSTRUCTURE	LB			1150097.000	1150097.000
		0415- 1- 5	REINFORCING STEEL- BRIDGE SUBSTRUCTURE	LB			3055960.000	3055960.000
		0415- 1- 8	REINFORCING STEEL- BULKHEAD	LB			2003.000	2003.000
		0415- 1- 9	REINFORCING STEEL- APPROACH SLABS	LB			32692.000	32692.000
		0415- 10- 5	FIBER REINFORCED POLYMER BARS, #5 BAR	LF			7974.000	7974.000
		0450- 2- 36	PREST BEAMS: FLORIDA-I BEAM 36"	LF			1555.000	1555.000
		0450- 2- 63	PREST BEAMS: FLORIDA-I BEAM 63"	LF			1234.000	1234.000
		0450- 2- 84	PREST BEAMS: FLORIDA-I BEAM 84"	LF			15971.000	15971.000
		0455- 15- 16	PREFORMED PILE HOLES, 36" TO 43" DRILL/PUNCH SIZE	LF			17026.000	17026.000
		0455- 20- 1	PILE INSPECTION, DRIVEN PILE	EA			339.000	339.000
		0455- 34- 6	PRESTRESSED CONCRETE PILING, 30" SQ	LF			30884.000	30884.000
		0455-115-	PILE REDRIVE	EA			193.000	193.000
		0455-133- 2	SHEET PILING STEEL, TEMPORARY-CRITICAL	SF			12773.000	12773.000
		0455-133- 3	SHEET PILING STEEL, F&I PERMANENT	SF			20613.000	20613.000
S		0455-133-208	SOLDIER PILE WALL, PERMANENT, WITH CAST-IN-PLACE CONCRETE FASCIA	SF			1369.000	1369.000
		0455-137-	LOAD TEST (DYNAMIC), DATA COLLECTION AND ANALYSIS	EA			339.000	339.000
		0455-137- 2	LOAD TEST (DYNAMIC), VERIFICATION TEST	EA			20.000	20.000
		0455-143- 6	TEST PILES-PRESTRESSED CONCRETE,30" SQ	LF			2225.000	2225.000
		0458- 1- 11	BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&I POURED JOINT WITH BACKER ROD	LF			280.000	280.000
		0458- 1- 12	BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&I STRIP SEAL	LF			395.000	395.000
		0459- 71-	PILES, POLYETHYLENE SHEETING	SY			158.000	158.000
T		0465- 20-	MOVABLE BRIDGE- PREVENTATIVE MAINTENANCE & ROUTINE REPAIR 43020425201 BR. NO. 130168	(LS)			1.000	1.000
T		0465- 21-	MOVABLE BRIDGE OPERATOR	DA			550.000	550.000

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

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF PAY ITEMS

SHEET NO. 3

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1920

LEAD PROJECT : 430204-2-52-01	DISTRICT : 01	COUNTY/SECTION : 13040000
PROJECT(S) : 43020425201, 43020425601	COUNTY : MANATEE	

0001 SUMMARY OF STRUCTURES

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43020425201	43020425601	43020425201BR# 130168	QUANTITY TOTAL
		0471- 3- 2	POLYMERIC FENDER SYSTEM, 41-200 KIP-FT 43020425201 BR. NO. 130168	LS			1.000	1.000
P		0510- 1-	NAVIGATION LIGHTS- FIXED BRIDGE, SYSTEM 43020425201 BR. NO. 130168	LS			1.000	1.000
P		0515- 2-720	PEDESTRIAN / BICYCLE RAILING, ALUMINUM, CUSTOM INFILL PANELS	LF			8195.000	8195.000
		0521- 5- 13	CONCRETE TRAFFIC RAILING- BRIDGE, 36" SINGLE-SLOPE	LF			5985.000	5985.000
		0521- 6- 34	CONCRETE PARAPET, RETAINING WALL SYSTEM MOUNTED W/SIDEWALK , CURB	LF			1457.000	1457.000
		0524- 2- 2	CONCRETE SLOPE PAVEMENT,NON REINFORCED, 4"	SY			49.000	49.000
		0530- 3- 3	RIPRAP- RUBBLE, BANK AND SHORE	TN			1360.100	1360.100
		0530- 5- 12	GABION, MATTRESS 1 FOOT AND GREATER THICKNESS	SY			219.000	219.000
		0530- 74-	BEDDING STONE	TN			361.200	361.200
		0548- 12-	RETAINING WALL SYSTEM, PERMANENT, EXCLUDING BARRIER	SF			19440.000	19440.000
		0548- 13-	RETAINING WALL SYSTEM,TEMPORARY, EXCLUDING BARRIER	SF			4653.000	4653.000
		0630- 2- 16	CONDUIT, FURNISH & INSTALL, EMBEDDED CONCRETE BARRIERS AND TRAFFIC RAILINGS	LF			20944.000	20944.000

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF PAY ITEMS

SHEET NO. 4

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1920

LEAD PROJECT : 430204-2-52-01 | DISTRICT : 01 | COUNTY/SECTION : 13040000

PROJECT(S) : 43020425201, 43020425601 | COUNTY : MANATEE

0002 SUMMARY OF ROADWAY

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43020425201	43020425601	QUANTITY TOTAL
		0101- 1-	MOBILIZATION 43020425201	LS	1.000		1.000
		0102- 1-	MAINTENANCE OF TRAFFIC 43020425201	(LS)	1.000		1.000
		0102- 2-200	SPECIAL DETOUR- TEMPORARY PAVEMENT 43020425201	(LS)	1.000		1.000
		0102- 2-300	SPECIAL DETOUR- TEMPORARY EARTHWORK/BASE 43020425201	(LS)	1.000		1.000
		0102- 4- 1	PEDESTRIAN OR BICYCLE SPECIAL DETOUR 43020425201	(LS)	1.000		1.000
		0102- 14-	TRAFFIC CONTROL OFFICER	HR	160.000		160.000
		0102- 60-	WORK ZONE SIGN	ED	128076.000		128076.000
		0102- 71- 13	TEMPORARY BARRIER, F&I, LOW PROFILE, CONCRETE	LF	1874.000		1874.000
		0102- 71- 15	TEMPORARY BARRIER, F&I, ANCHORED	LF	4582.000		4582.000
		0102- 71- 16	TEMPORARY BARRIER, F&I, FREE STANDING	LF	320.000		320.000
		0102- 71- 23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE CONCRETE	LF	452.000		452.000
		0102- 71- 25	TEMPORARY BARRIER, RELOCATE, ANCHORED	LF	333.000		333.000
		0102- 74- 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	103894.000		103894.000
		0102- 74- 8	CHANNELIZING DEVICE- PEDESTRIAN LCD (LONGITUDINAL CHANNELIZING DEVICE)	FD	405990.000		405990.000
		0102- 75- 1	TEMPORARY SEPARATOR, F&I REMOVE	LF	296.000		296.000
		0102- 76-	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	350.000		350.000
		0102- 89- 1	TEMPORARY CRASH CUSHION, REDIRECTIVE OPTION	LO	7.000		7.000
		0102- 99-	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	5733.000		5733.000
		0102-104-	TEMPORARY SIGNALIZATION AND MAINTENANCE, INTERSECTION	ED	1095.000		1095.000
		0102-107- 1	TEMPORARY TRAFFIC DETECTION AND MAINTENANCE, INTERSECTION	ED	1095.000		1095.000
		0102-115-	TYPE III BARRICADE	ED	12558.000		12558.000
		0104- 10- 3	SEDIMENT BARRIER	LF	4561.000		4561.000
		0104- 11-	FLOATING TURBIDITY BARRIER	LF	456.000		456.000
P		0104- 15-	SOIL TRACKING PREVENTION DEVICE	EA	2.000		2.000
		0104- 18-	INLET PROTECTION SYSTEM	EA	5.000		5.000
		0107- 1-	LITTER REMOVAL	AC	230.530 N		230.530
		0107- 2-	MOWING	AC	153.040 N		153.040
P		0108- 1-	MONITOR EXISTING STRUCTURES- INSPECTION AND SETTLEMENT MONITORING 43020425201	LS	1.000		1.000
P		0108- 2-	MONITOR EXISTING STRUCTURES- VIBRATION MONITORING 43020425201	LS	1.000		1.000
		0110- 1- 1	CLEARING & GRUBBING 43020425201	(LS)	1.000		1.000
		0110- 4- 10	REMOVAL OF EXISTING CONCRETE	SY	2919.000		2919.000
		0120- 1-	REGULAR EXCAVATION	CY	14449.000		14449.000
		0120- 6-	EMBANKMENT	CY	23249.000		23249.000
		0160- 4-	TYPE B STABILIZATION	SY	9965.000		9965.000
		0285-706-	OPTIONAL BASE, BASE GROUP 06	SY	9079.000		9079.000
		0327- 70- 1	MILLING EXISTING ASPHALT PAVEMENT, 1" AVG DEPTH	SY	183.000		183.000
		0327- 70- 5	MILLING EXISTING ASPHALT PAVEMENT, 2" AVG DEPTH	SY	4279.000		4279.000
		0334- 1- 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN	978.700		978.700

05/22/2025 11:27:49 AM

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1920

LEAD PROJECT : 430204-2-52-01 | DISTRICT : 01 | COUNTY/SECTION : 13040000

PROJECT(S) : 43020425201, 43020425601 | COUNTY : MANATEE

0002 SUMMARY OF ROADWAY

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43020425201	43020425601	QUANTITY TOTAL
		0337- 7- 81	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC B, FC-12.5, PG 76-22	TN	1102.600		1102.600
		0339- 1-	MISCELLANEOUS ASPHALT PAVEMENT	TN	257.700		257.700
		0425- 1-201	INLETS, CURB, TYPE 9, <10'	EA	1.000		1.000
		0425- 1-351	INLETS, CURB, TYPE P-5, <10'	EA	8.000		8.000
		0425- 1-451	INLETS, CURB, TYPE J-5, <10'	EA	3.000		3.000
		0425- 1-521	INLETS, DT BOT, TYPE C,<10'	EA	2.000		2.000
		0425- 1-531	INLETS, DITCH BOTTOM, TYPE C MODIFIED- BACK OF SIDEWALK, <10'	EA	1.000		1.000
		0425- 1-549	INLETS, DT BOT, TYPE D, MODIFY	EA	2.000		2.000
		0425- 1-553	INLETS, DT BOT, TYPE E, J BOT, <10'	EA	2.000		2.000
		0425- 1-583	INLETS, DT BOT, TYPE H, J BOTTOM <10'	EA	2.000		2.000
		0425- 1-713	INLETS, GUTTER, TYPE V, J BOT, <10'	EA	2.000		2.000
		0425- 1-883	INLETS, BARRIER WALL, RIGID, CURB & GUTTER, J BOT<10'	EA	14.000		14.000
		0425- 1-884	INLETS, BARRIER WALL, RIGID, CURB & GUTTER, J BOT>10'	EA	1.000		1.000
		0425- 2- 41	MANHOLES, P-7, <10'	EA	7.000		7.000
		0425- 2- 43	MANHOLES, P-7, PARTIAL	EA	3.000		3.000
		0425- 2- 71	MANHOLES, J-7, <10'	EA	11.000		11.000
		0425- 2- 92	MANHOLES, J-8, >10'	EA	1.000		1.000
		0430-175-115	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 15"S/CD	LF	38.000		38.000
		0430-175-118	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 18"S/CD	LF	1453.000		1453.000
		0430-175-124	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 24"S/CD	LF	342.000		342.000
		0430-175-130	PIPE CULVERT, OPT MATERIAL, ROUND, 30"S/CD	LF	928.000		928.000
		0430-175-218	PIPE CULVERT,OPTIONAL MATERIAL,OTHER-ELIP/ARCH, 18"S/CD	LF	388.000		388.000
		0430-175-224	PIPE CULVERT,OPTIONAL MATERIAL,OTHER SHAPE-ELIP/ARCH, 24"S/CD	LF	17.000		17.000
		0430-175-230	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 30"S/CD	LF	221.000		221.000
		0430-185-124	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, JACK & BORE, 24", STORM AND CROSS DRAIN	LF	53.000		53.000
		0430-982-125	MITERED END SECTION, OPTIONAL ROUND, 18" CD	EA	4.000		4.000
		0430-982-133	MITERED END SECTION, OPTIONAL ROUND, 30" CD	EA	1.000		1.000
		0430-982-629	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 24" CD	EA	1.000		1.000
		0515- 1- 2	PIPE HANDRAIL - GUIDERAIL, ALUMINUM	LF	9.000		9.000
P		0515- 2-720	PEDESTRIAN / BICYCLE RAILING, ALUMINUM, CUSTOM INFILL PANELS	LF	42.000		42.000
T		0519- 78-	BOLLARDS	EA	6.000		6.000
		0520- 1- 7	CONCRETE CURB & GUTTER, TYPE E	LF	501.000		501.000
		0520- 1- 10	CONCRETE CURB & GUTTER, TYPE F	LF	2767.000		2767.000
		0520- 3-	VALLEY GUTTER- CONCRETE	LF	166.000		166.000
		0521- 72- 40	SHOULDER CONCRETE BARRIER, 38" OR 44" HEIGHT	LF	864.000		864.000
		0521- 72- 43	SHOULDER CONCRETE BARRIER, CURB AND GUTTER BARRIER	LF	59.000		59.000
		0522- 1-	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	1766.000		1766.000

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

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF PAY ITEMS

SHEET NO. 5

05/22/2025 11:27:49 AM

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1920

LEAD PROJECT : 430204-2-52-01 | DISTRICT : 01 | COUNTY/SECTION : 13040000

PROJECT(S) : 43020425201, 43020425601 | COUNTY : MANATEE

0002 SUMMARY OF ROADWAY

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43020425201	43020425601	QUANTITY TOTAL
		0522- 2-	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	2979.000		2979.000
		0524- 1- 1	CONCRETE DITCH PAVT, NON REINFORCED, 3"	SY	49.000		49.000
		0527- 2-	DETECTABLE WARNINGS	SF	341.000		341.000
		0536- 1- 0	GUARDRAIL -ROADWAY, GENERAL/LOW SPEED TL-2	LF	610.000		610.000
		0536- 8-111	GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-001, APPROACH TL-2	EA	2.000		2.000
		0536- 8-113	GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-001, TRAILING	EA	2.000		2.000
		0536- 73-	GUARDRAIL REMOVAL	LF	619.000		619.000
		0536- 85- 20	GUARDRAIL END TREATMENT- TRAILING ANCHORAGE	EA	4.000		4.000
		0536- 85- 24	GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL	EA	5.000		5.000
		0536- 85- 26	GUARDRAIL END TREATMENT- TYPE CRT	EA	1.000		1.000
		0570- 1- 2	PERFORMANCE TURF, SOD	SY	14069.000		14069.000
		0570- 1- 3	PERFORMANCE TURF, SOD AND SOIL- SHOULDER TREATMENT INDEX 570-010	SY	68.000		68.000
		0571- 1- 11	PLASTIC EROSION MAT, TURF REINFORCED MAT, TYPE 1	SY	376.000		376.000
		0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	621.000		621.000
		0706- 1- 3	RAISED PAVEMENT MARKER, TYPE B	EA	6222.000		6222.000
		0710- 11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	6.329		6.329
		0710- 11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF	1590.000		1590.000
		0710- 11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	580.000		580.000
		0710- 11-141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXTENSION, 6"	GM	0.230		0.230
		0710- 11-160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	12.000		12.000
		0710- 11-170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	44.000		44.000
		0710- 11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	6.529		6.529
		0710- 11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	399.000		399.000
		0710- 11-231	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	GM	0.362		0.362
		0710- 11-241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION, 6"	GM	0.308		0.308
D		0919-528-100	DIRECTIONAL INDICATORS	SF	51.000		51.000
		0999- 16-	PARTNERING, DO NOT BID 43020425201	LS	1.000		1.000
		0999- 20- 1	DISPUTES REVIEW BOARD, MEETING- DO NOT BID	DA	37.000		37.000
		0999- 20- 2	DISPUTES REVIEW BOARD, HEARING- DO NOT BID	EA	2.000		2.000
		0999- 25-	INITIAL CONTINGENCY AMOUNT, DO NOT BID 43020425201	LS	1.000 N		1.000

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FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1920

LEAD PROJECT : 430204-2-52-01 | DISTRICT : 01 | COUNTY/SECTION : 13040000

PROJECT(S) : 43020425201, 43020425601 | COUNTY : MANATEE

0003 SUMMARY OF SIGNING

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43020425201	43020425601	QUANTITY TOTAL
		0700- 1-111	SINGLE COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, LESS THAN 12 SF	EA	47.000		47.000
		0700- 1-112	SINGLE COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, 12 .0-20.0 SF	EA	1.000		1.000
		0700- 1-211	SINGLE COLUMN GROUND SIGN ASSEMBLY, F&I BARRIER TOP-MOUNT, LESS THAN 12 SF	EA	3.000		3.000
		0700- 1-212	SINGLE COLUMN GROUND SIGN ASSEMBLY, F&I BARRIER TOP-MOUNT, 12.0-20.0 SF	EA	1.000		1.000
		0700- 1-500	SINGLE COLUMN GROUND SIGN ASSEMBLY, RELOCATE	EA	7.000		7.000
		0700- 1-600	SINGLE COLUMN GROUND SIGN ASSEMBLY, REMOVE	EA	45.000		45.000
		0700- 1-912	SINGLE COLUMN GROUND SIGN ASSEMBLY, F&I CANTILEVER GROUND MOUNT, 12.0-20.0 SF	EA	1.000		1.000
		0700- 2-600	MULTI-COLUMN GROUND SIGN ASSEMBLY, REMOVE	EA	1.000		1.000
		0700- 3-602	SIGN PANEL, REMOVE, 12-20 SF	EA	2.000		2.000
		0704- 1- 3	TUBULAR MARKER, 36" WHITE POST	EA	2.000		2.000
		0705- 10- 1	OBJECT MARKER, TYPE 1	EA	8.000		8.000
		0705- 10- 4	OBJECT MARKER, TYPE 4	EA	3.000		3.000
		0706- 1- 3	RAISED PAVEMENT MARKER, TYPE B	EA	477.000		477.000
		0710- 12-290	PAINTED PAVEMENT MARKINGS, DURABLE PAINT, YELLOW, ISLAND NOSE	SF	28.000		28.000
		0710- 90-	PAINTED PAVEMENT MARKINGS, FINAL SURFACE 43020425201	LS	1.000		1.000
		0711- 11-102	THERMOPLASTIC, STANDARD, WHITE, SOLID, 8" FOR INTERCHANGE AND URBAN ISLAND	GM	0.047		0.047
		0711- 11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	894.000		894.000
		0711- 11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	193.000		193.000
		0711- 11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM	0.181		0.181
		0711- 11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	5.000		5.000
		0711- 11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	19.000		19.000
		0711- 11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	294.000		294.000
		0711- 11-241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM	0.051		0.051
		0711- 14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	256.000		256.000
		0711- 14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	12.000		12.000
		0711- 14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA	12.000		12.000
		0711- 14-560	THERMOPLASTIC, PREFORMED, WHITE WITH BLACK CONTRAST ON CONCRETE PAVEMENT, MESSAGE OR SYMBOL	EA	6.000		6.000
		0711- 14-570	THERMOPLASTIC, PREFORMED, WHITE WITH BLACK CONTRAST, ARROW ON CONCRETE SURFACE	EA	6.000		6.000
		0711- 16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	1.355		1.355
		0711- 16-131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6" ,10-30 SKIP OR 3-9 LANE DROP	GM	0.026		0.026
		0711- 16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	1.034		1.034

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

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF PAY ITEMS

SHEET NO. 6

05/22/2025 11:27:49 AM

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1920

LEAD PROJECT : 430204-2-52-01 | DISTRICT : 01 | COUNTY/SECTION : 13040000

PROJECT(S) : 43020425201, 43020425601 | COUNTY : MANATEE

0003 SUMMARY OF SIGNING

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43020425201	43020425601	QUANTITY TOTAL
		0711- 16-231	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SKIP, 6"	GM	0.207		0.207
		0713-103-101	PERMANENT TAPE, WHITE, SOLID, 6" FOR CONCRETE BRIDGES	GM	2.225		2.225
		0713-103-201	PERMANENT TAPE, YELLOW, SOLID, 6" FOR CONCRETE BRIDGES	GM	1.206		1.206

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FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1920

LEAD PROJECT : 430204-2-52-01 | DISTRICT : 01 | COUNTY/SECTION : 13040000

PROJECT(S) : 43020425201, 43020425601 | COUNTY : MANATEE

0004 SUMMARY OF LIGHTING

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43020425201	43020425601	QUANTITY TOTAL
		0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	4887.000		4887.000
		0630- 2- 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	466.000		466.000
		0630- 2- 16	CONDUIT, FURNISH & INSTALL, EMBEDDED CONCRETE BARRIERS AND TRAFFIC RAILINGS	LF	1116.000		1116.000
		0635- 2- 11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA	48.000		48.000
		0635- 3- 13	JUNCTION BOX, FURNISH & INSTALL, EMBEDDED	EA	136.000		136.000
		0639- 1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	4.000		4.000
		0639- 2- 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	271.000		271.000
		0639- 3- 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	4.000		4.000
		0641- 2- 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	4.000		4.000
		0715- 1- 11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	LF	9028.000		9028.000
		0715- 1- 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF	54665.000		54665.000
		0715- 1- 13	LIGHTING CONDUCTORS, F&I, INSULATED, NO 4 TO NO 2	LF	14659.000		14659.000
		0715- 1- 60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF	9351.000		9351.000
		0715- 7- 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	4.000		4.000
		0715- 7- 41	LOAD CENTER, REMOVE, SECONDARY VOLTAGE	EA	4.000		4.000
		0715- 11-125	LUMINAIRE, F&I, UNDER DECK, WALL MOUNT	EA	7.000		7.000
		0715- 11-128	LUMINAIRE, F&I, UNDER DECK, FLOOD	EA	34.000		34.000
		0715- 11-211	LUMINAIRE, F&I- REPLACE EXISTING LUMINAIRE ON EXISTING POLE /ARM, ROADWAY, COBRA HEAD	EA	2.000		2.000
		0715- 61-100	LIGHT POLE COMPLETE, F&I, STANDARD POLE STANDARD FOUNDATION , 30' MOUNTING HEIGHT, 0' ARM LENGTH	EA	1.000		1.000
		0715- 61-252	LIGHT POLE COMPLETE, F&I, STANDARD POLE STANDARD FOUNDATION , 35' MOUNTING HEIGHT, 15' ARM LENGTH	EA	3.000		3.000
		0715- 61-811	LIGHT POLE COMPLETE, F&I, STD POLE STD FOUNDATION, WILDLIFE SENSITIVE LUMINAIRE, 25' MOUNTING HEIGHT, 8' ARM LENGTH	EA	3.000		3.000
		0715- 65-266	LIGHT POLE COMPLETE, F&I, UTILITY CONFLICT POLE STANDARD FOUNDATION, 35' MOUNTING HEIGHT, 16' ARM LENGTH	EA	2.000		2.000
		0715- 69-000	LIGHT POLE COMPLETE, REMOVE POLE AND FOUNDATION	EA	21.000		21.000
		0715-500- 1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA	25.000		25.000
		0715-500- 3	POLE CABLE DISTRIBUTION SYSTEM, WALL MOUNT	EA	84.000		84.000
T		0715-516-125	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, POLE TOP MOUNT-ALUMINUM, 25'	EA	98.000		98.000
T		0715-526-125	LIGHT POLE COMP- SPECIAL DESIGN, FURNISH, POLE TOP MOUNT, ALUMINUM, 25'	EA	4.000		4.000

05/22/2025 11:27:49 AM

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1920

LEAD PROJECT : 430204-2-52-01 | DISTRICT : 01 | COUNTY/SECTION : 13040000

PROJECT(S) : 43020425201, 43020425601 | COUNTY : MANATEE

0005 SUMMARY OF SIGNALIZATION

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43020425201	43020425601	QUANTITY TOTAL
		0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	45.000		45.000
		0630- 2- 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	60.000		60.000
		0632- 7- 1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	1.000		1.000
P		0632- 7- 6	SIGNAL CABLE, REMOVE- INTERSECTION	PI	1.000		1.000
		0635- 2- 14	PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE	EA	4.000		4.000
		0646- 1- 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	3.000		3.000
		0646- 1- 60	ALUMINUM SIGNALS POLE, REMOVE	EA	2.000		2.000
		0650- 1- 14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	1.000		1.000
		0650- 1- 19	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 5 SECTION CLUSTER, 1 WAY	AS	1.000		1.000
		0650- 1- 60	VEHICULAR TRAFFIC SIGNAL, REMOVE- POLES TO REMAIN	AS	2.000		2.000
		0653- 1- 11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	3.000		3.000
		0654- 2- 22	MIDBLOCK CROSSWALK: RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR, COMPLETE SIGN ASSEMBLY- BACK TO BACK	AS	2.000		2.000
		0660- 1-600	LOOP DETECTOR INDUCTIVE, REMOVE- CABINET TO REMAIN	EA	5.000		5.000
		0660- 3- 11	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL CABINET EQUIPMENT	EA	1.000		1.000
		0660- 3- 12	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	3.000		3.000
		0665- 1- 12	PEDESTRIAN DETECTOR, FURNISH & INSTALL, ACCESSIBLE	EA	3.000		3.000
P		0671- 2- 40	TRAFFIC CONTROLLER, MODIFY	EA	1.000		1.000
		0676- 1-500	TRAFFIC SIGNAL CONTROLLER CABINET, ADJUST/MODIFY	EA	1.000		1.000
		0700- 3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	3.000		3.000
		0700- 3-601	SIGN PANEL, REMOVE, UP TO 12 SF	EA	3.000		3.000
		0700-141-903	ENHANCED HIGHWAY SIGN ASSEMBLY, AC POWERED, REMOVE - OVERHEAD MOUNT	EA	1.000		1.000

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

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF PAY ITEMS

SHEET NO. 7

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1920

LEAD PROJECT : 430204-2-52-01 | DISTRICT : 01 | COUNTY/SECTION : 13040000

PROJECT(S) : 43020425201, 43020425601 | COUNTY : MANATEE

0007 SUMMARY OF INTELLIGENT TRANSPORTATION SYSTEM

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43020425201	43020425601	QUANTITY TOTAL
		0611- 1- 1	ITSFM SUBSURFACE DOCUMENTATION- PROJECT LENGTH	MI	0.900		0.900
		0611- 2- 1	ITSFM LOCATION DOCUMENTATION- INTERSECTION	EA	1.000		1.000
		0611- 2- 2	ITSFM LOCATION DOCUMENTATION- ITS SITE	EA	2.000		2.000
		0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	998.000		998.000
		0630- 2- 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	528.000		528.000
		0630- 2- 14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF	10.000		10.000
		0633- 1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND,2-12 FIBERS	LF	907.000		907.000
		0633- 1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND,49-96 FIBERS	LF	4898.000		4898.000
		0633- 2- 31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	118.000		118.000
		0633- 3- 11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	3.000		3.000
		0633- 3- 12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA	3.000		3.000
		0633- 3- 13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA	3.000		3.000
		0633- 3- 16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA	3.000		3.000
		0633- 6-	FIBER OPTIC CABLE LOCATOR	DA	1095.000		1095.000
		0635- 2- 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	5.000		5.000
		0635- 2- 13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA	3.000		3.000
		0635- 2- 14	PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE	EA	2.000		2.000
		0635- 3- 13	JUNCTION BOX, FURNISH & INSTALL, EMBEDDED	EA	1.000		1.000
		0639- 1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	2.000		2.000
		0639- 1-620	ELECTRICAL POWER SERVICE, REMOVE UNDERGROUND	AS	1.000		1.000
		0639- 2- 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	144.000		144.000
		0639- 3- 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	2.000		2.000
		0641- 2- 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	2.000		2.000
		0641- 2- 80	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- POLE 30' AND GREATER	EA	1.000		1.000
		0641- 3-263	CONCRETE CCTV POLE, FURNISH & INSTALL WITHOUT LOWERING DEVICE, 63'	EA	2.000		2.000
		0641- 3-800	CONCRETE CCTV POLE, COMPLETE POLE REMOVAL	EA	1.000		1.000
		0660- 3- 11	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL CABINET EQUIPMENT	EA	1.000		1.000
		0660- 3- 12	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	1.000		1.000
		0660- 6-121	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL , CABINET EQUIPMENT	EA	1.000		1.000
		0660- 6-122	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL , ABOVE GROUND EQUIPMENT	EA	1.000		1.000
P		0660- 6-600	VEHICLE DETECTION SYSTEM- AVI, REMOVE COMPLETE SYSTEM	EA	2.000		2.000
P		0660- 11- 60	TRAFFIC DATA DETECTION SYSTEM- LIDAR, REMOVE COMPLETE SYSTEM	EA	1.000		1.000
		0676- 2-122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	EA	2.000		2.000

05/22/2025 11:27:49 AM

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: T1920

LEAD PROJECT : 430204-2-52-01 | DISTRICT : 01 | COUNTY/SECTION : 13040000

PROJECT(S) : 43020425201, 43020425601 | COUNTY : MANATEE

0007 SUMMARY OF INTELLIGENT TRANSPORTATION SYSTEM

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43020425201	43020425601	QUANTITY TOTAL
		0676- 2-600	ITS CABINET- REMOVE	EA	1.000		1.000
		0682- 1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP , HIGH DEFINITION *** ITEM IS OBSOLETE AS OF 2025-06-30 04:00:00 FOR LEAD PROJECT SCHEDULED LETTING DATE 2026-02-25 00:00:00 **	EA	2.000		2.000
		0682- 1-600	ITS CCTV CAMERA, REMOVE & DISPOSAL	EA	1.000		1.000
		0684- 1- 1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	2.000		2.000
		0684- 2- 1	DEVICE SERVER, FURNISH & INSTALL	EA	1.000		1.000
P		0684- 6- 60	WIRELESS COMMUNICATION DEVICE, REMOVE *** ITEM IS OBSOLETE AS OF 2025-06-30 04:00:00 FOR LEAD PROJECT SCHEDULED LETTING DATE 2026-02-25 00:00:00 **	EA	2.000		2.000
		0685- 1- 11	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE	EA	2.000		2.000
D		0924-681- 1	CONNECTED VEHICLE ROADSIDE EQUIPMENT, RSU	EA	1.000		1.000

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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

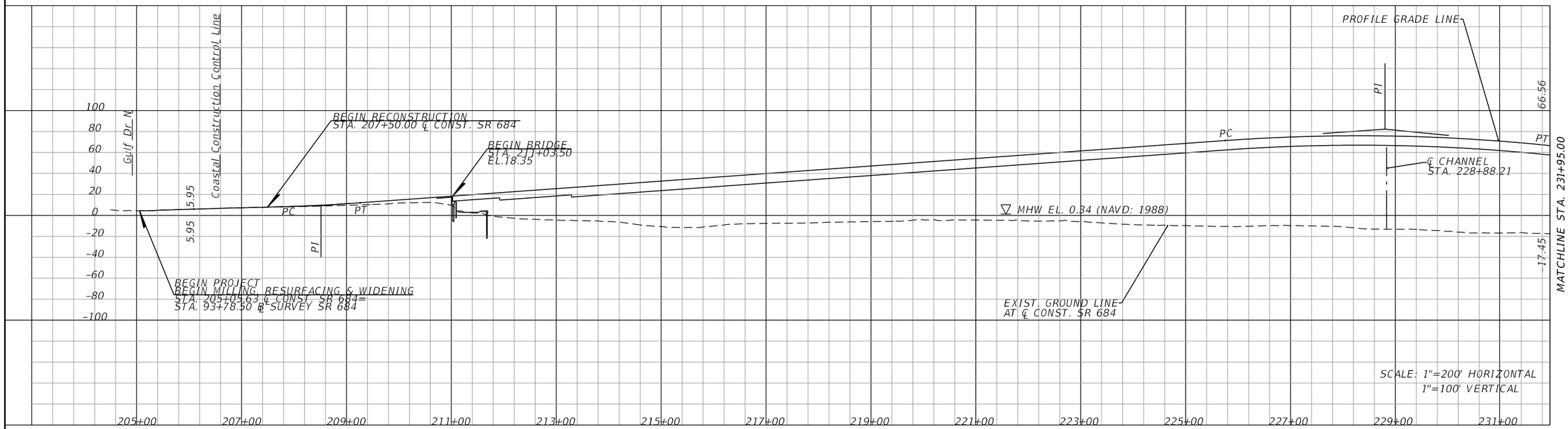
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

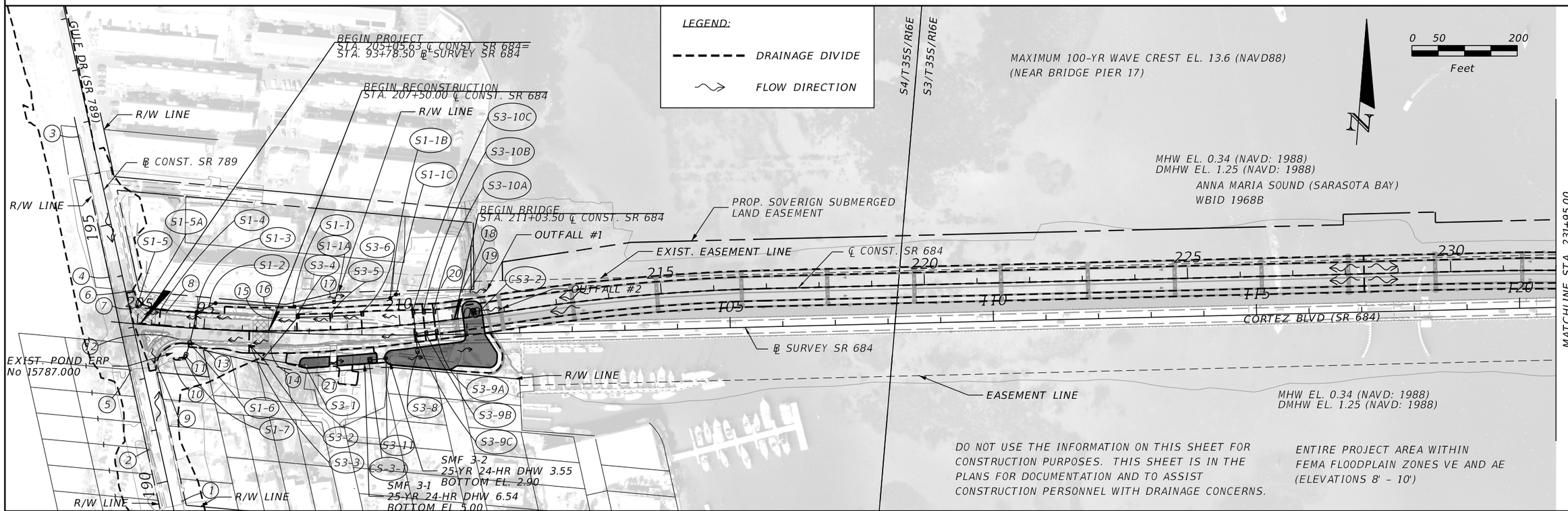
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF PAY ITEMS

SHEET NO. 8





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

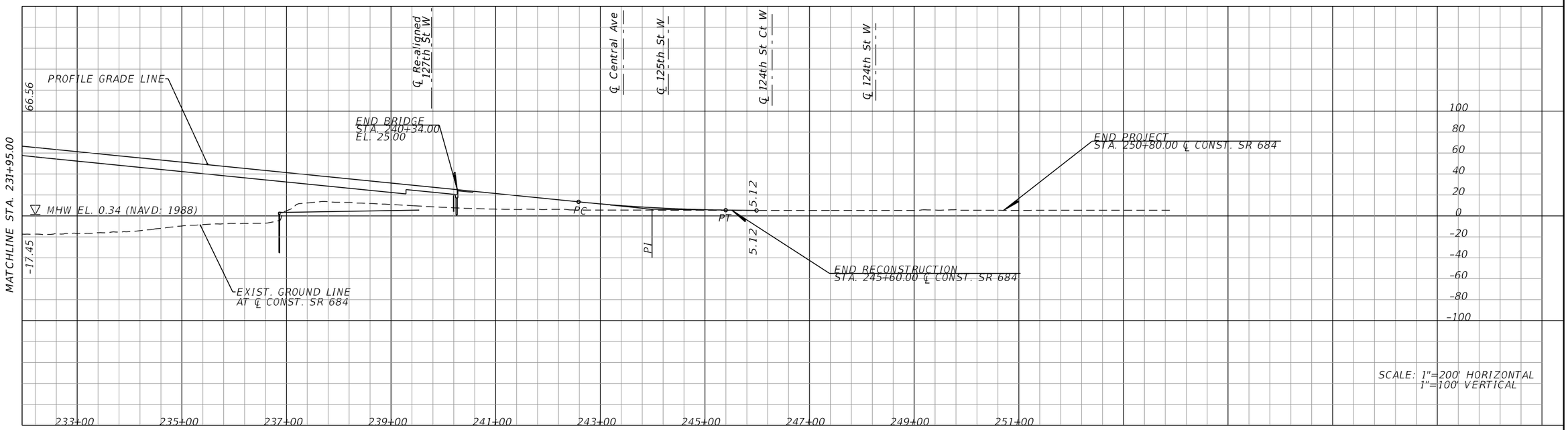
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

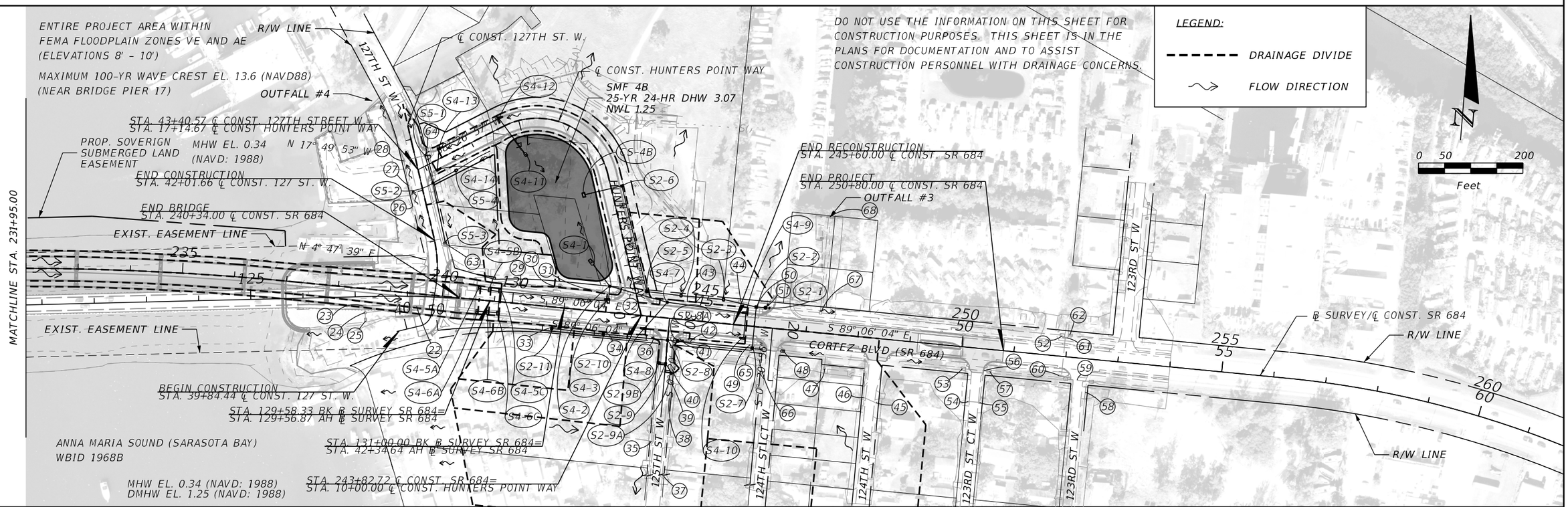
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE MAP (01)

SHEET NO. 9

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE MAP (02)

SHEET NO. 10

(1) GRATE INLET (TO REMAIN)
14"X23" ERCP FL 1.23' S
14"X23" ERCP FL 1.31' N

(2) TRENCH DRAIN (TO REMAIN)
MH RIM EL 3.75'
14"X23" ERCP FL 1.23' S
14"X23" ERCP FL 1.23' N

(3) GRATE INLET (TO REMAIN)
19"X30" ERCP FL 1.71' S

(4) GRATE INLET (TO REMAIN)
14"X23" ERCP FL 1.35' S
19"X30" ERCP FL 1.40' N

(5) GRATE INLET (TO REMAIN)
14"X23" ERCP FL 1.28' S
14"X23" ERCP FL 1.25' N
14"X23" ERCP FL 1.34' E

(6) GRATE INLET (TO REMAIN)
14"X23" ERCP FL 1.90' S

(7) MH
RIM EL 4.12'
14"X23" ERCP FL 1.74' N
14"X23" ERCP FL 1.61' E

(8) CURB INLET
14"X23" ERCP FL 1.36' S
14"X23" ERCP FL 1.35' W

(9) CURB INLET
RIM EL 4.35'
14"X23" ERCP FL 1.20' S
14"X23" ERCP FL 1.11' N
14"X23" ERCP FL 1.13' W
24"X38" ERCP FL 1.04' E

(10) MES
24"X38" ERCP FL 1.02' E

(11) MES
24"X38" ERCP FL 1.12' N

(12) CURB INLET
14"X23" ERCP FL 1.81' E

(13) MH
RIM EL 5.69'
24"X38" ERCP FL 0.99' S
14"X23" ERCP FL 0.93' W
24"X38" ERCP FL 1.01' E

(14) CURB INLET
24"X38" ERCP FL 0.92' N
24"X38" ERCP FL 0.67' W

(15) CURB INLET
MH RIM EL 7.47'
24"X38" ERCP FL S (SOUTH INV NOT LOCATED)
24"X38" ERCP FL 0.73' N
6.6' TO BOT OF SKIMMER
TOP OF SKIMMER AT TOP OF BOX

(16) MH
RIM EL 4.42'
24"X38" ERCP FL 0.67' S
24"X38" ERCP FL 0.44' E

(17) MH (TO REMAIN)
RIM EL 3.52'
24"X38" ERCP FL -0.23' W
24"X38" ERCP FL -0.58' E

(18) MH (TO REMAIN)
RIM EL 4.44'
24"X38" ERCP FL -0.48' W
24"X38" ERCP FL -0.52' E

(19) MES (TO REMAIN)
24"X38" ERCP FL 0.29' W

(20) SIDE DRAIN (TO REMAIN)
14"X23" ERCP FL 1.27' W
14"X23" ERCP FL 1.27' E

(21) CURB INLET (TO REMAIN)
RIM EL 8.03'

(22) CURB INLET
18" RCP FL 4.29' W

(23) CURB INLET
18" RCP FL 7.14' S

(24) MH
RIM EL 10.70'
18" RCP FL 4.16' S
18" RCP FL 7.30' N
18" RCP FL 4.19' W

(25) U TYPE ENDWALL
18" RCP FL 4.14' N

(26) GRATE INLET (TO REMAIN)
GRATE EL 2.02'
12" RCP FL 0.42' N

(27) GRATE INLET (TO REMAIN)
GRATE EL 1.31'
12" RCP FL -0.05' S
12" RCP FL -0.07' N

(28) GRATE INLET (TO REMAIN)
GRATE EL 2.66'
12" RCP FL -0.34' S
15" CPP FL -0.38' N
12" RCP FL 0.39' W

(29) GRATE INLET
GRATE EL 3.83'
15" RCP FL 1.59' W (WEST INV NOT LOCATED)
15" RCP FL 1.48' E

(30) GRATE INLET
GRATE EL 3.57'
15" RCP FL 1.54' W
18" RCP FL 1.20' E

(31) GRATE INLET
GRATE EL 4.22'
18" RCP FL 1.07' W
18" RCP FL 0.93' E

(32) MES
18" RCP FL 1.06' W

(33) GRATE INLET
GRATE EL 3.41'
8" PVC FL 1.46' S (SOUTH INV NOT LOCATED)
18" RCP FL 1.37' W (WEST INV NOT LOCATED)
18" RCP FL (UNKNOWN) E

(34) GRATE INLET
GRATE EL 3.06'
8" PVC FL 1.23' S (SOUTH INV NOT LOCATED)
18" RCP FL 1.19' W
18" RCP FL 1.21 E

(35) GRATE INLET (TO REMAIN)
GRATE EL 2.87'
10" RCP FL 0.71' S
10" RCP FL 0.84' N
8" RCP FL 0.90' W

(36) GRATE INLET
GRATE EL 3.01'
10" RCP FL 1.02' S
18" RCP FL 1.10' W
18" RCP FL 1.13' E

(37) GRATE INLET (TO REMAIN)
GRATE EL 3.04'
10" RCP FL 1.29' S
10" RCP FL 1.31' N

(38) GRATE INLET (TO REMAIN)
GRATE EL 3.02'
10" RCP FL 1.05' S
10" RCP FL 1.16' N

(39) GRATE INLET (TO REMAIN)
GRATE EL 2.81'
10" RCP FL 1.10' S
10" RCP FL 1.13' N

(40) GRATE INLET
GRATE EL 2.72'
10" RCP FL 0.95' S
10" RCP FL 1.07' N

(41) GRATE INLET
GRATE EL 3.28'
10" RCP FL 1.04' S
18" RCP FL 1.07' W
18" RCP FL 1.07' E

(42) MES
18" RCP FL 0.95' W

(43) SIDE DRAIN
18" RCP FL 0.82' W
18" RCP FL 0.88' E

(44) MES
18" RCP FL 0.72' W

(45) GRATE INLET (TO REMAIN)
GRATE EL 2.53'
12"X19" ERCP FL 1.13' S
12"X19" ERCP FL 1.11' W

(46) GRATE INLET (TO REMAIN)
GRATE EL 2.58'
12"X19" ERCP FL 0.87' S
12"X19" ERCP FL 0.93' N
12"X19" ERCP FL 0.86' E

(47) GRATE INLET (TO REMAIN)
GRATE EL 2.43'
12" RCP FL 0.93' N

(48) SIDE DRAIN (TO REMAIN)
18" RCP FL 0.67' W
18" RCP FL 0.71' E

(49) ENDWALL
24" RCP FL 0.68' N

(50) GRATE INLET
GRATE EL 2.79'
24" RCP FL 0.22' S
18" RCP FL 0.55' W
24" RCP FL 0.30' E

(51) MH
RIM EL 3.85'
30" RCP FL 0.23' E
24" RCP FL -0.33' W
18" RCP FL N (NORTH INV NOT LOCATED)

(52) MES (TO REMAIN)
18" RCP FL -0.25' W

(53) MES (TO REMAIN)
18"X29" ERCP FL 0.62' E

(54) GRATE INLET (TO REMAIN)
GRATE EL 2.27'
12"X19" ERCP FL 0.76' S
12"X19" ERCP FL 0.77' E

(55) GRATE INLET (TO REMAIN)
GRATE EL 2.21'
12"X19" ERCP FL 0.70' S
12"X19" ERCP FL 0.75' N
12"X19" ERCP FL 0.66' W

(56) GRATE INLET (TO REMAIN)
12"X19" ERCP FL (UNKNOWN) S
12"X19" ERCP FL (UNKNOWN) W
12"X19" ERCP FL (UNKNOWN) E

(57) MES (TO REMAIN)
18"X29" ERCP FL 0.63' W

(58) SIDE DRAIN (TO REMAIN)
12"X19" ERCP FL (UNKNOWN) S
12"X19" ERCP FL 0.67' N

(59) SIDE DRAIN (TO REMAIN)
18" RCP FL -0.40' W
18" RCP FL 0.24' E

(60) ENDWALL (TO REMAIN)
24" RCP FL -0.37' N

(61) ENDWALL (TO REMAIN)
24" RCP FL -0.82' S

(62) ENDWALL (TO REMAIN)
18" RCP FL -0.90' E

(63) GRATE INLET
GRATE EL 2.10'
12" RCP FL 0.66' N

(64) MH
RIM EL 2.40'
12" RCP FL 0.28' S
12" RCP FL 0.49' W

(65) PIPE
6" PVC FL 1.95' N
6" PVC FL 1.70' S

(66) CONTROL STRUCTURE (TO REMAIN)
PVC (SIZE UNKNOWN) FL 2.37' E
PVC (SIZE UNKNOWN) FL 2.29' W
(ERP NO. 488250.000)

(67) GRATE INLET (TO REMAIN)
GRATE EL 3.47'
30" RCP FL -0.35 N
30" RCP FL -0.29 W
24" RCP FL 1.04 E

(68) HEADWALL (TO REMAIN)
30" RCP FL -1.44 S

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REVISIONS

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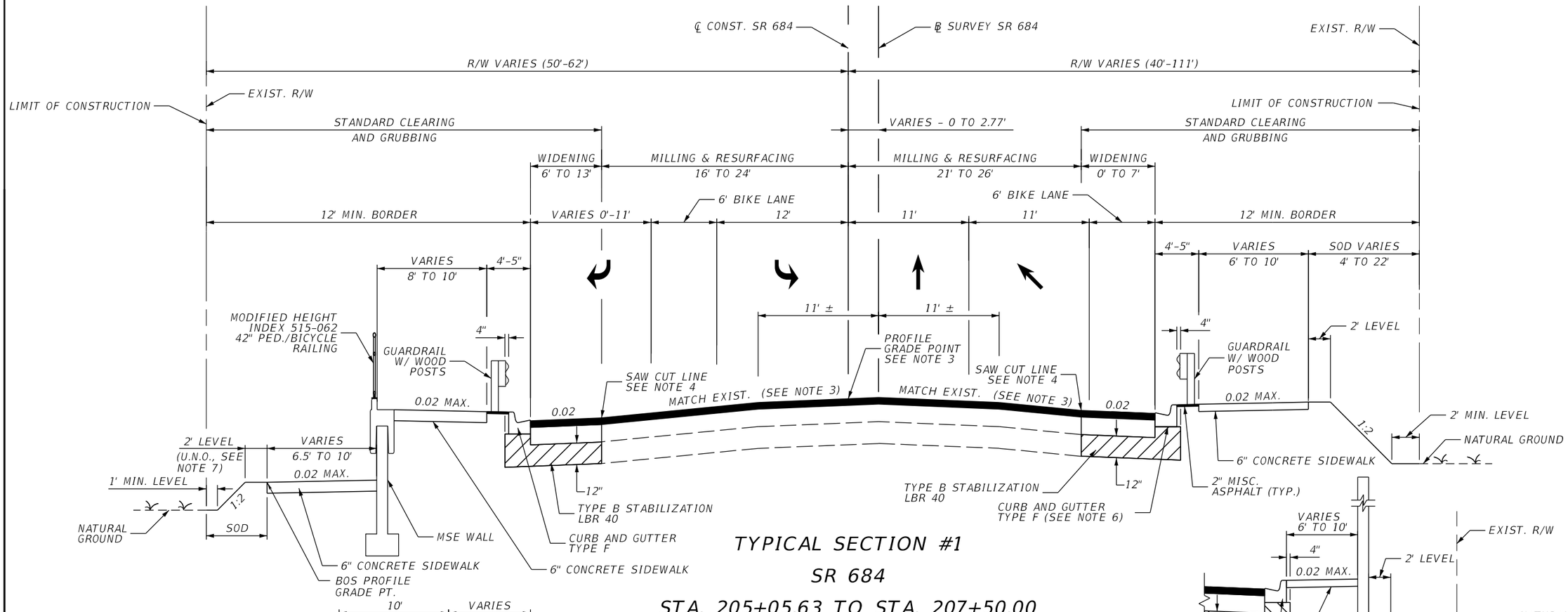
LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE MAP (03)

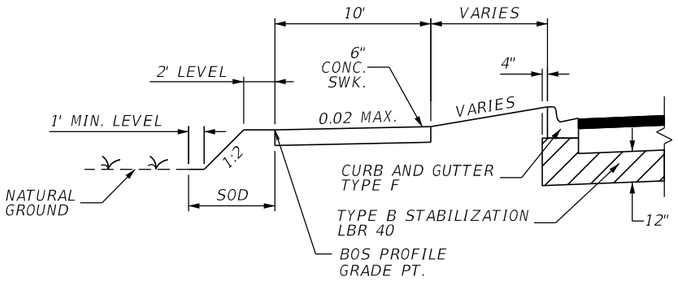
SHEET NO. 11



TYPICAL SECTION #1

SR 684

STA. 205+05.63 TO STA. 207+50.00

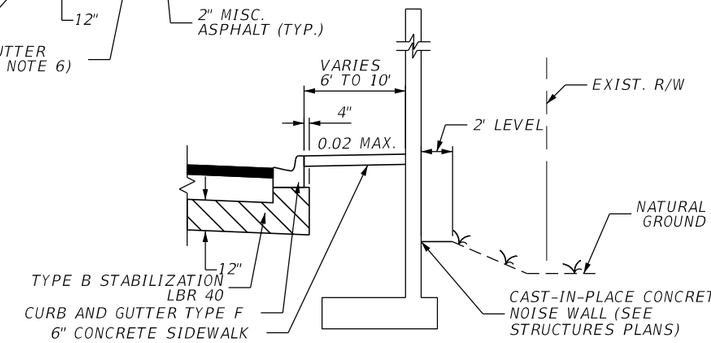


SIDEWALK DETAIL

STA. 205+23.33 TO STA. 205+97.80

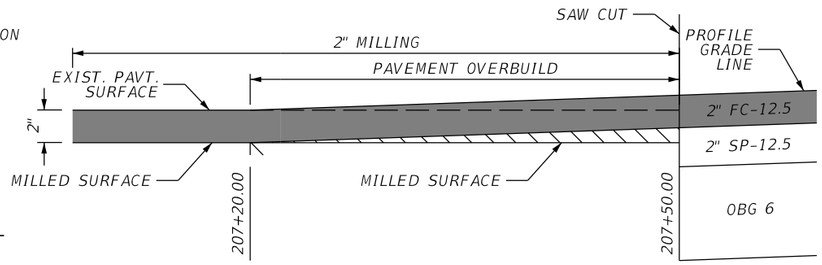
NOTES:

1. ACTUAL WIDTH OF BASE WIDENING MAY VARY DUE TO ACTUAL EXISTING PAVEMENT WIDTH. A UNIFORM WIDTH BASE WIDENING STRIP MAY BE CONSTRUCTED AT NO ADDITIONAL COMPENSATION.
2. COMPACTION OF ALL MATERIAL SHALL BE PERFORMED WITH ROLLERS OPERATING IN STATIC MODE.
3. PLACE OVERBUILD PAVEMENT TO VARY CROSS SLOPE FROM 'MATCH EXIST.' AT STA. 207+20.00 TO -0.020 AT STA. 207+50.00. SEE PAVEMENT OVERBUILD PROFILE BELOW.
4. SEE SPECIAL SAW CUT PROFILES. PGL BEGINS AT STA. 207+20.00.
5. USE CONSTANT 2" MILLING & RESURFACING AT GULF DRIVE INTERSECTION FROM STA. 192+11.65 TO STA. 194+30.00.
6. CONSTRUCT TYPE E CURB & GUTTER WITHIN LIMITS OF GUARDRAIL APPROACH TERMINAL ASSEMBLY, PER STANDARD INDEX 536-001, SHEET 8, NOTE 2.
7. TRANSITION FROM 2' TO 1' FROM STA. 207+25 TO STA. 207+50.
8. GUARDRAIL SET AT A 5" OFFSET FROM THE TYPE F CURB AND GUTTER CURB FACE.



NOISE WALL DETAIL

STA. 206+15.95 TO STA. 207+20.00



PAVEMENT OVERBUILD PROFILE

TYPE SP-12.5 (TRAFFIC B) OVERBUILD

TRAFFIC DATA

CURRENT YEAR = 2025 AADT = 16,800
ESTIMATED OPENING YEAR = 2029 AADT = 17,600
ESTIMATED DESIGN YEAR = 2049 AADT = 21,600
K = 9.0% D = 57% T = 5.1% (24 HOUR)
DESIGN HOUR T = 2.6%
DESIGN SPEED = 40 MPH
CONTEXT CLASSIFICATION = C3R

MILLING AND RESURFACING

MILL EXISTING ASPHALT PAVEMENT (2" DEPTH)
FRICTION COURSE FC-12.5 (TRAFFIC B) (2") (PG 76-22)

WIDENING

OPTIONAL BASE GROUP 6 WITH
TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC B) (2")
AND FRICTION COURSE FC-12.5 (TRAFFIC B) (2") (PG 76-22)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

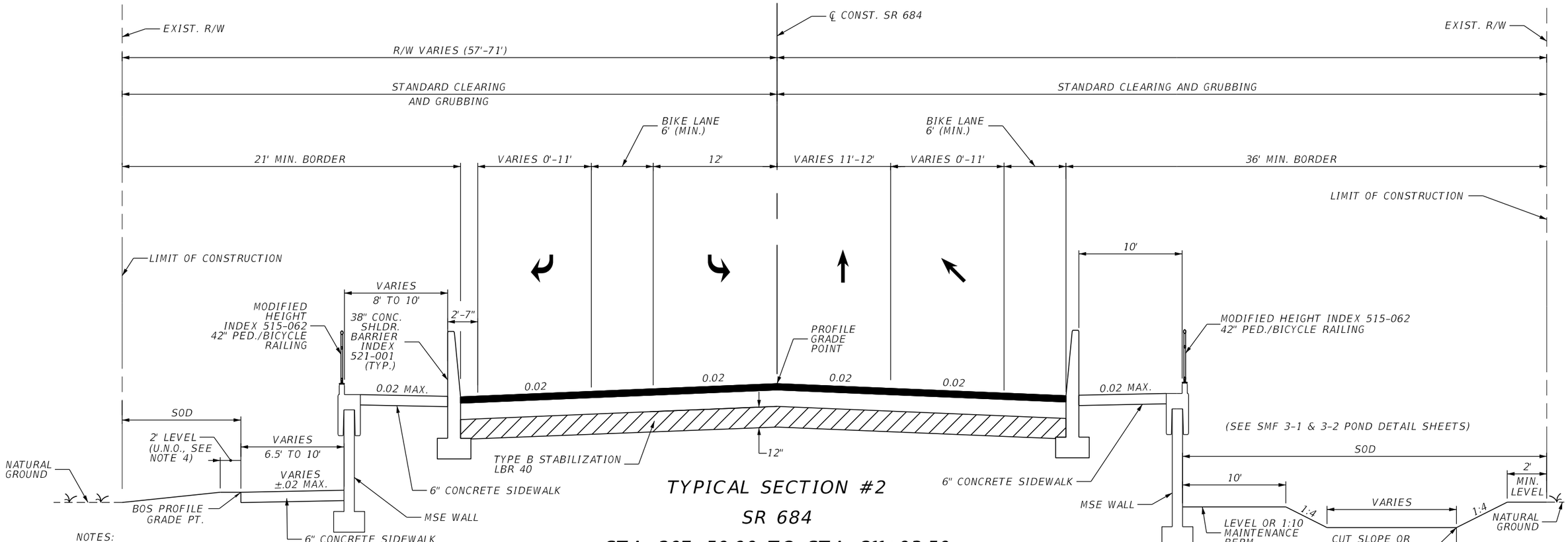
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TYPICAL SECTIONS

SHEET NO. 12

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TYPICAL SECTION #2

SR 684

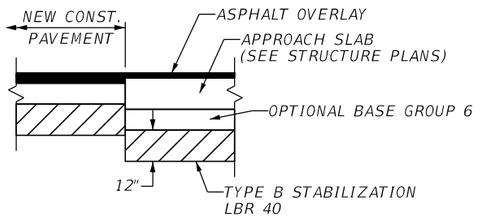
STA. 207+50.00 TO STA. 211+03.50

NOTES:

1. COMPACTION OF ALL MATERIAL SHALL BE PERFORMED WITH ROLLERS OPERATING IN STATIC MODE.
2. INSTALL DRAINAGE SLOTS IN SHLDR. BARRIER PER STD. INDEX 521-001 FROM STA. 208+00.00 TO STA. 210+73.50 (LT.) AND FROM STA. 208+60.00 TO STA. 210+73.50 (RT.)
3. CONSTRUCT TYPE E CURB & GUTTER WITHIN LIMITS OF GUARDRAIL APPROACH TERMINAL ASSEMBLY, PER STANDARD INDEX 536-001, SHEET 8, NOTE 2.
4. 1' FROM STA. 207+50 TO STA. 209+00. TRANSITION FROM 1' TO 2' FROM STA. 209+00 TO STA. 209+25.
5. CONDUITS MAY BE REQUIRED WITHIN THE CONCRETE BARRIER WALL. SEE COMPONENT PLANS FOR LOCATIONS AND DETAILS.
6. GUARDRAIL SET AT A 5" OFFSET FROM THE TYPE F CURB AND GUTTER CURB FACE.

TRAFFIC DATA

CURRENT YEAR = 2025 AADT = 16,800
ESTIMATED OPENING YEAR = 2029 AADT = 17,600
ESTIMATED DESIGN YEAR = 2049 AADT = 21,600
K = 9.0% D = 57% T = 5.1% (24 HOUR)
DESIGN HOUR T = 2.6%
DESIGN SPEED = 40 MPH
CONTEXT CLASSIFICATION = C3R



APPROACH SLAB DETAIL

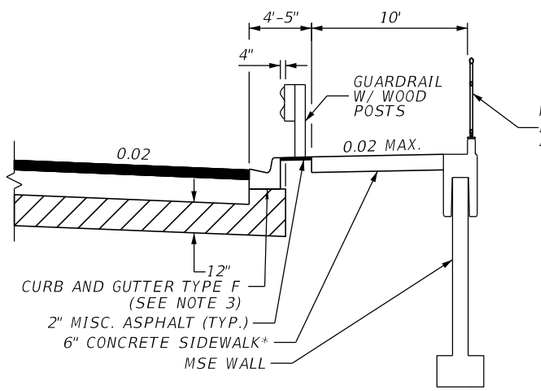
STA. 210+73.50 TO STA. 211+03.50

NEW CONSTRUCTION

OPTIONAL BASE GROUP 6 WITH
TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC B) (2")
AND FRICTION COURSE FC-12.5 (TRAFFIC B) (2") (PG 76-22)

APPROACH SLAB

OPTIONAL BASE GROUP 6 WITH
FRICTION COURSE FC-12.5 (TRAFFIC B) (2") (PG 76-22)



GUARDRAIL DETAIL

STA. 207+32.57 TO STA. 208+49.86 RT
STA. 208+97.43 TO STA. 209+59.19 RT
STA. 206+38.68 TO STA. 208+00.61 LT (MIRROR)

*4" CONCRETE SIDEWALK IN AREAS NOT ADJACENT TO MSE WALL.

RETAINING WALL DETAIL

STA. 208+05.09 TO STA. 208+62.84 RT
STA. 208+77.38 TO STA. 209+53.00 RT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

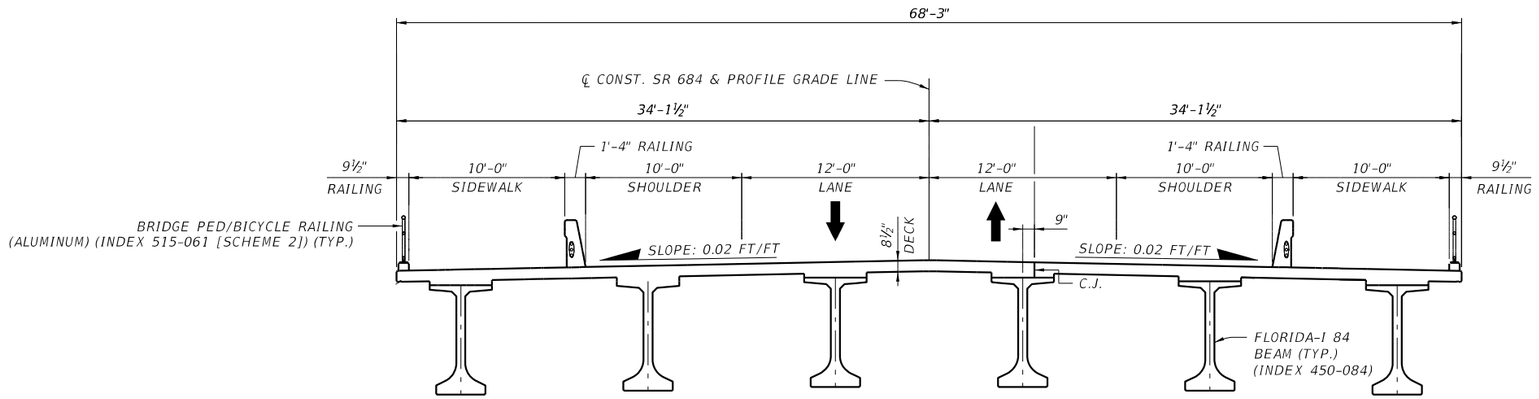
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TYPICAL SECTIONS

SHEET NO. 13

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BRIDGE TYPICAL SECTION #3

SR 684

STA. 211+03.50 TO STA. 240+34.00

TRAFFIC DATA

CURRENT YEAR = 2025 AADT = 16,800
ESTIMATED OPENING YEAR = 2029 AADT = 17,600
ESTIMATED DESIGN YEAR = 2049 AADT = 21,600
K = 9.0% D = 57% T = 5.1% (24 HOUR)
DESIGN HOUR T = 2.6%
DESIGN SPEED = 40 MPH
CONTEXT CLASSIFICATION = C3R

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

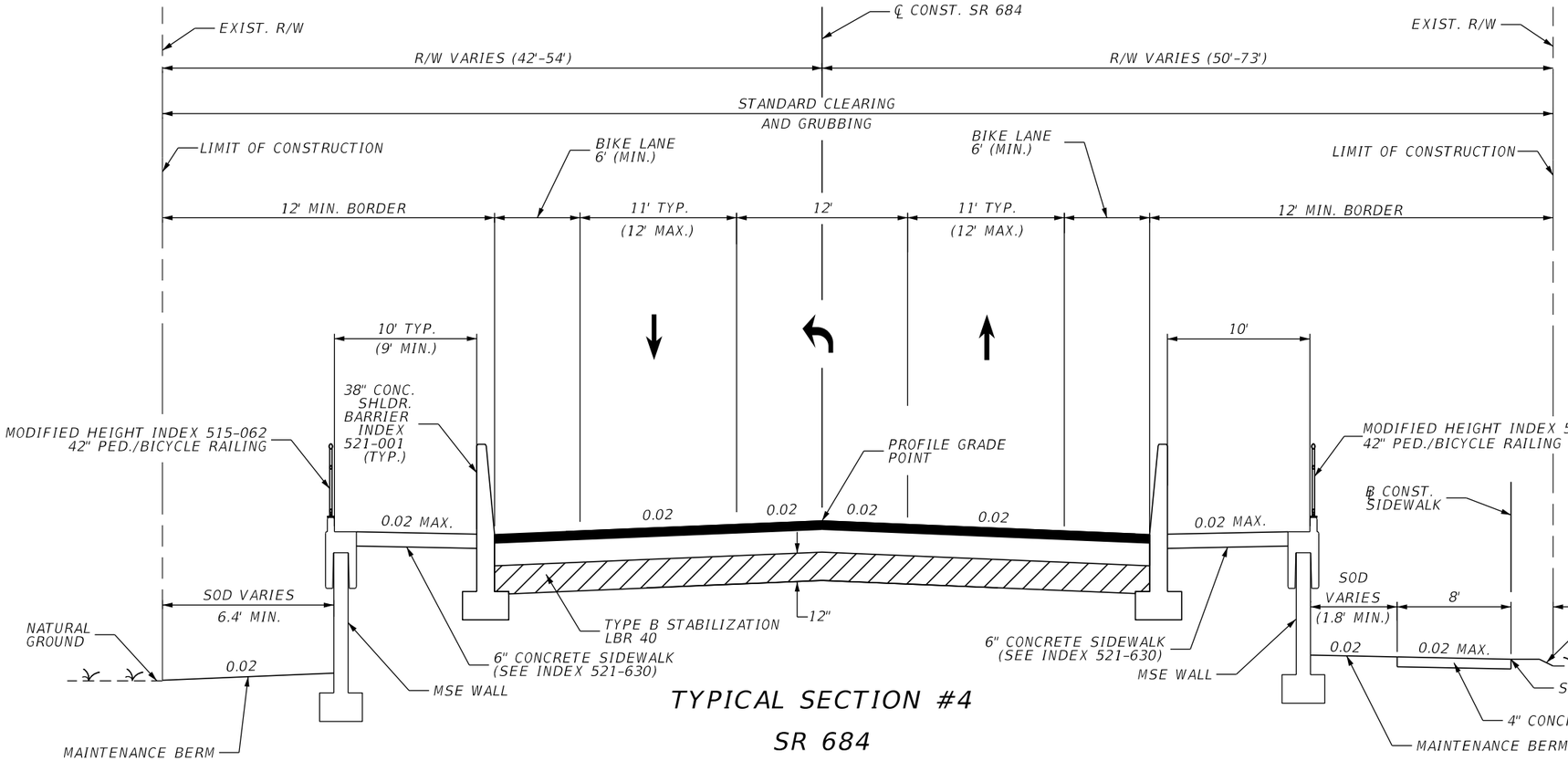
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TYPICAL SECTIONS

SHEET NO. 14

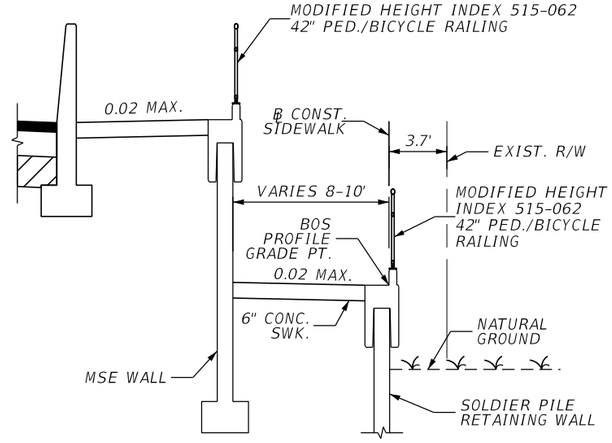
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TYPICAL SECTION #4

SR 684

STA. 240+34.00 TO STA. 243+00.00



8' SIDEWALK DETAIL

STA. 51+87.36 TO STA. 53+28.51 =
STA. 241+83.84 TO STA. 243+25.00 RT

TRAFFIC DATA

CURRENT YEAR = 2025 AADT = 16,800
ESTIMATED OPENING YEAR = 2029 AADT = 17,600
ESTIMATED DESIGN YEAR = 2049 AADT = 21,600
K = 9.0% D = 57% T = 5.1% (24 HOUR)
DESIGN HOUR T = 2.6%
DESIGN SPEED = 40 MPH
CONTEXT CLASSIFICATION = C3R

NEW CONSTRUCTION

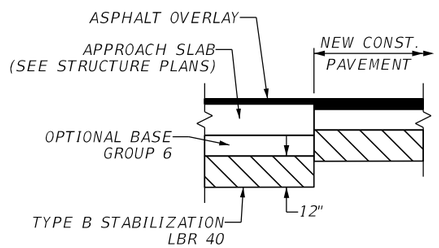
OPTIONAL BASE GROUP 6 WITH
TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC B) (2")
AND FRICTION COURSE FC-12.5 (TRAFFIC B) (2") (PG 76-22)

APPROACH SLAB

OPTIONAL BASE GROUP 6 WITH
FRICTION COURSE FC-12.5 (TRAFFIC B) (2") (PG 76-22)

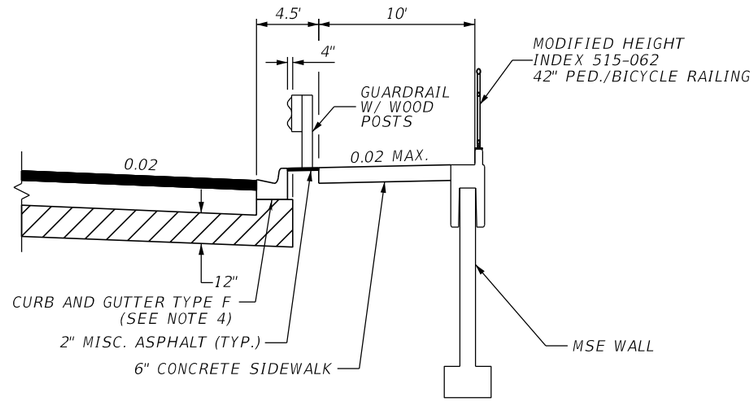
NOTES:

1. COMPACTION OF ALL MATERIAL SHALL BE PERFORMED WITH ROLLERS OPERATING IN STATIC MODE.
2. CONSTRUCT 2' LEVEL BERM w/ 1:2 FILL SLOPE FROM STA. 50+00.00 TO STA. 51+87.36 ℄ CONST. SIDEWALK = STA. 239+97.86 TO STA. 241+83.84 ℄ CONST. SR 684.
3. INSTALL DRAINAGE SLOTS IN SHLDR. BARRIER PER STD. INDEX 521-001 FROM STA. 240+64.00 TO STA. 242+00.00 (LT.) AND FROM STA. 240+64.00 TO STA. 243+00.00 (RT.)
4. CONSTRUCT TYPE E CURB & GUTTER WITHIN LIMITS OF GUARDRAIL APPROACH TERMINAL ASSEMBLY, PER STANDARD INDEX 536-001, SHEET 8, NOTE 2.
5. CONDUITS MAY BE REQUIRED WITHIN THE CONCRETE BARRIER WALL. SEE COMPONENT PLANS FOR LOCATIONS AND DETAILS.



APPROACH SLAB DETAIL

STA. 240+34.00 TO STA. 240+64.00



GUARDRAIL DETAIL

STA. 243+16.25 TO STA. 243+60.00 RT
STA. 241+99.40 TO STA. 242+99.36 LT (MIRROR)

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

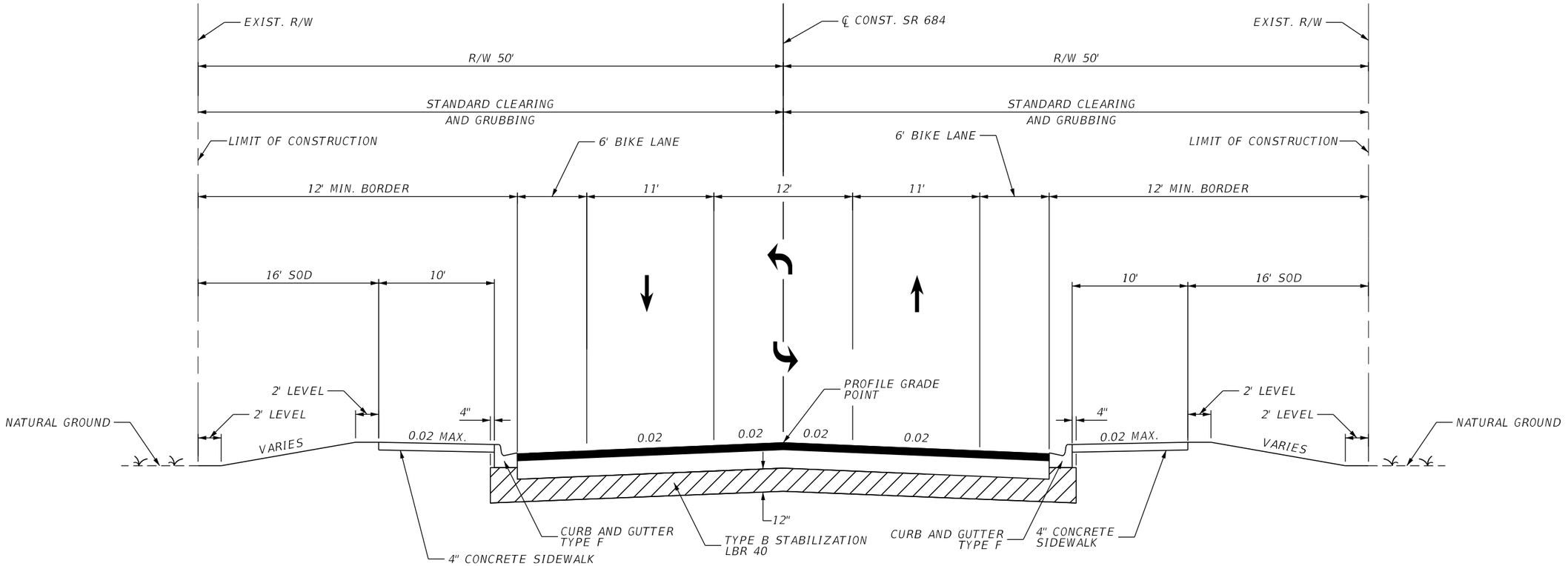
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TYPICAL SECTIONS

SHEET NO. 15



NOTES:

1. COMPACTION OF ALL MATERIAL SHALL BE PERFORMED WITH ROLLERS OPERATING IN STATIC MODE.
2. PAVEMENT DESIGN ALSO APPLIES TO FULL-DEPTH TURNOUT.

TRAFFIC DATA

CURRENT YEAR = 2025 AADT = 16,800
ESTIMATED OPENING YEAR = 2029 AADT = 17,600
ESTIMATED DESIGN YEAR = 2049 AADT = 21,600
K = 9.0% D = 57% T = 5.1% (24 HOUR)
DESIGN HOUR T = 2.6%
DESIGN SPEED = 40 MPH
CONTEXT CLASSIFICATION = C3R

TYPICAL SECTION #5
SR 684
STA. 243+00.00 TO STA. 245+60.00

NEW CONSTRUCTION

OPTIONAL BASE GROUP 6 WITH
TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC B) (2")
AND FRICTION COURSE FC-12.5 (TRAFFIC B) (2") (PG 76-22)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

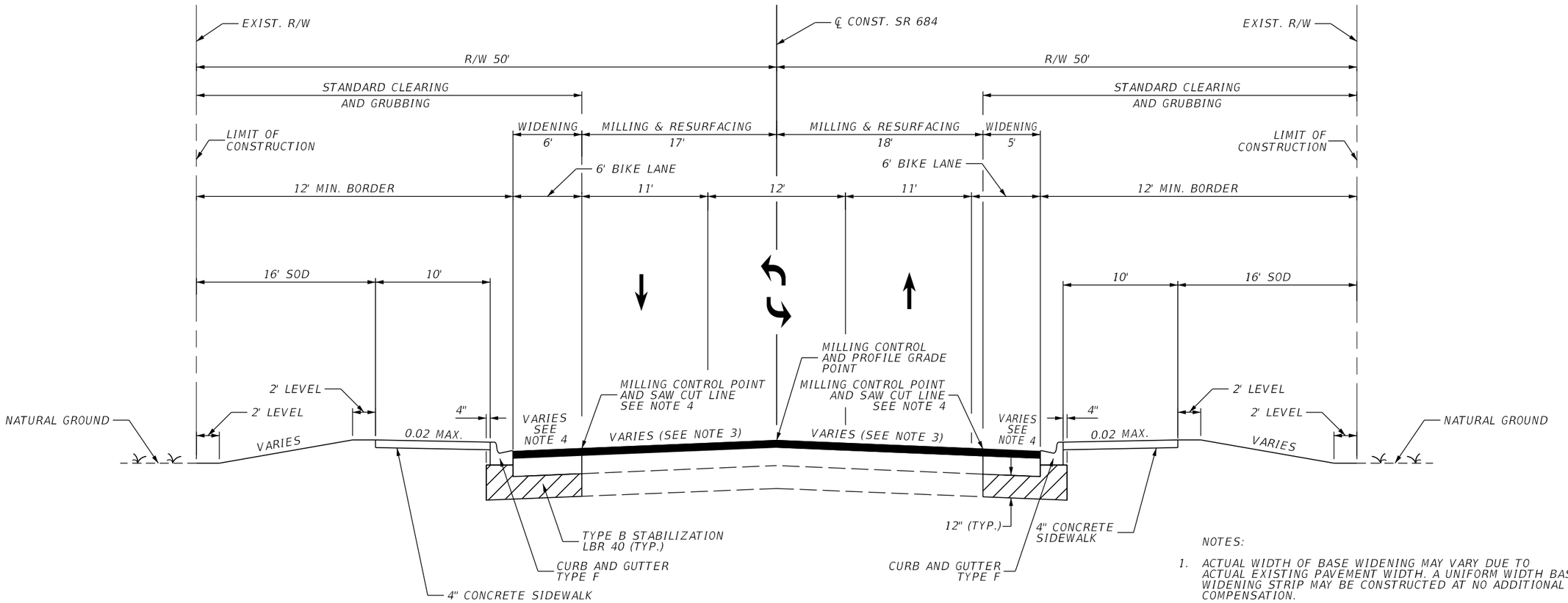
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TYPICAL SECTIONS

SHEET NO. 16

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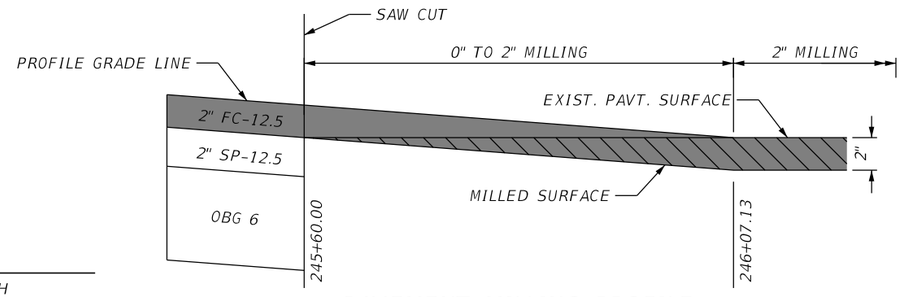
NOTES:

1. ACTUAL WIDTH OF BASE WIDENING MAY VARY DUE TO ACTUAL EXISTING PAVEMENT WIDTH. A UNIFORM WIDTH BASE WIDENING STRIP MAY BE CONSTRUCTED AT NO ADDITIONAL COMPENSATION.
2. COMPACTION OF ALL MATERIAL SHALL BE PERFORMED WITH ROLLERS OPERATING IN STATIC MODE.
3. MILL PAVEMENT WITH VARIABLE CROSS SLOPE FROM –0.020 AT STA. 245+60.00 TO 'MATCH EXIST.' AT STA. 246+07.13. SEE MILLING PROFILE BELOW.
4. SEE SPECIAL SAW CUT & EDGE OF PAVEMENT PROFILES.

TRAFFIC DATA

CURRENT YEAR = 2025 AADT = 16,800
ESTIMATED OPENING YEAR = 2029 AADT = 17,600
ESTIMATED DESIGN YEAR = 2049 AADT = 21,600
K = 9.0% D = 57% T = 5.1% (24 HOUR)
DESIGN HOUR T = 2.6%
DESIGN SPEED = 40 MPH
CONTEXT CLASSIFICATION = C3R

TYPICAL SECTION #6
SR 684
STA. 245+60.00 TO STA. 246+07.13



PAVEMENT MILLING PROFILE

MILLING

VARIABLE DEPTH MILLING

MILL EXISTING ASPHALT PAVEMENT (1" AVG. DEPTH)

MILLING AND RESURFACING

MILL EXISTING ASPHALT PAVEMENT (2" DEPTH)
FRICTION COURSE FC-12.5 (TRAFFIC B) (2") (PG 76-22)

WIDENING

OPTIONAL BASE GROUP 6 WITH
TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC B) (2")
AND FRICTION COURSE FC-12.5 (TRAFFIC B) (2") (PG 76-22)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

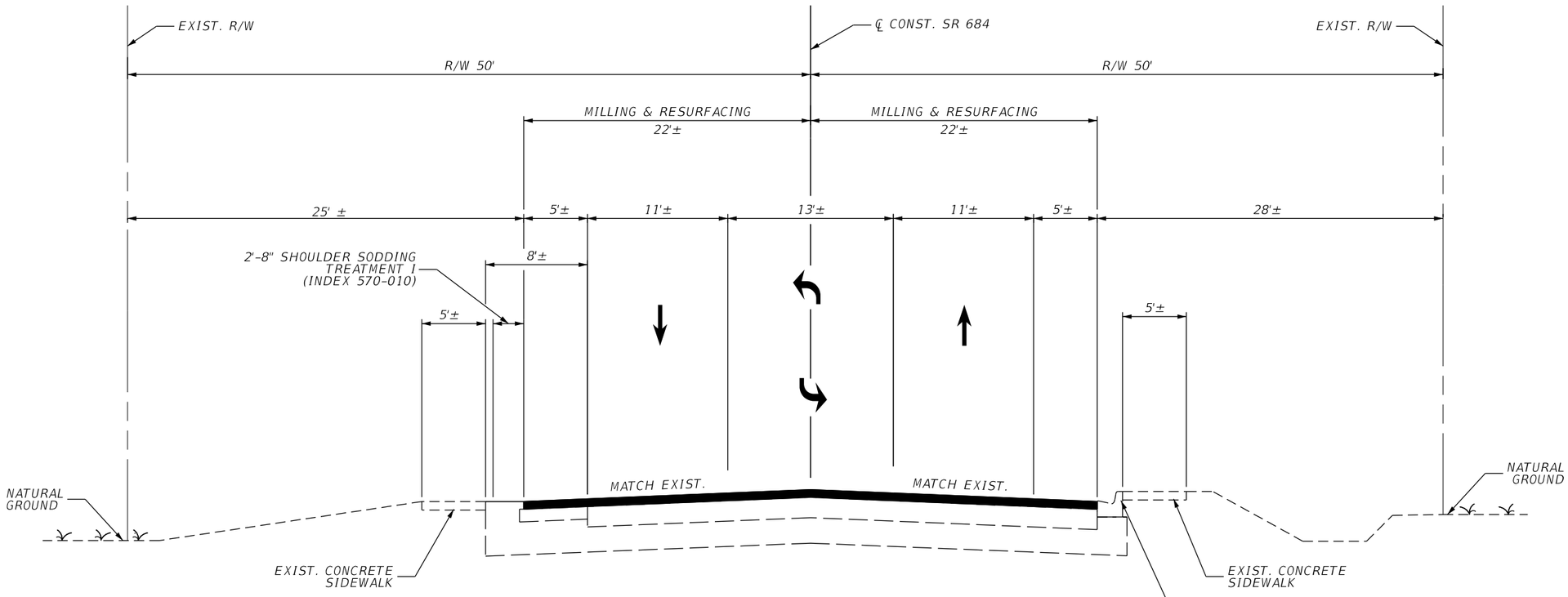
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TYPICAL SECTIONS

SHEET NO. 17

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



NOTES:

1. COMPACTION OF ALL MATERIAL SHALL BE PERFORMED WITH ROLLERS OPERATING IN STATIC MODE.

TRAFFIC DATA

CURRENT YEAR = 2025 AADT = 16,800
ESTIMATED OPENING YEAR = 2029 AADT = 17,600
ESTIMATED DESIGN YEAR = 2049 AADT = 21,600
K = 9.0% D = 57% T = 5.1% (24 HOUR)
DESIGN HOUR T = 2.6%
DESIGN SPEED = 40 MPH
CONTEXT CLASSIFICATION = C3R

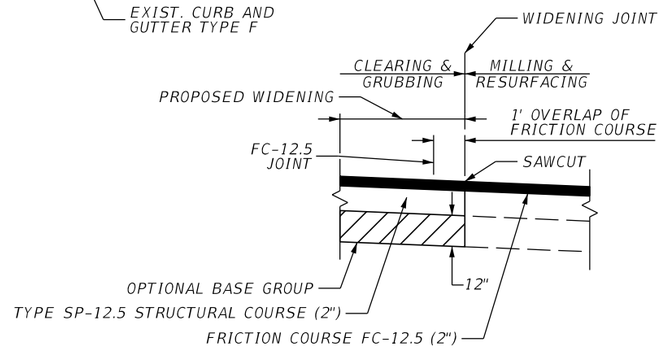
TYPICAL SECTION #7
SR 684
STA. 246+07.13 TO STA. 250+80.00

MILLING AND RESURFACING

MILL EXISTING ASPHALT PAVEMENT (2" DEPTH)
FRICTION COURSE FC-12.5 (TRAFFIC B) (2") (PG 76-22)

WIDENING

OPTIONAL BASE GROUP 6 WITH
TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC B) (2")
AND FRICTION COURSE FC-12.5 (TRAFFIC B) (2") (PG 76-22)



ASPHALT WIDENING DETAIL

STA. 249+15.00 TO STA. 250+02.00

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

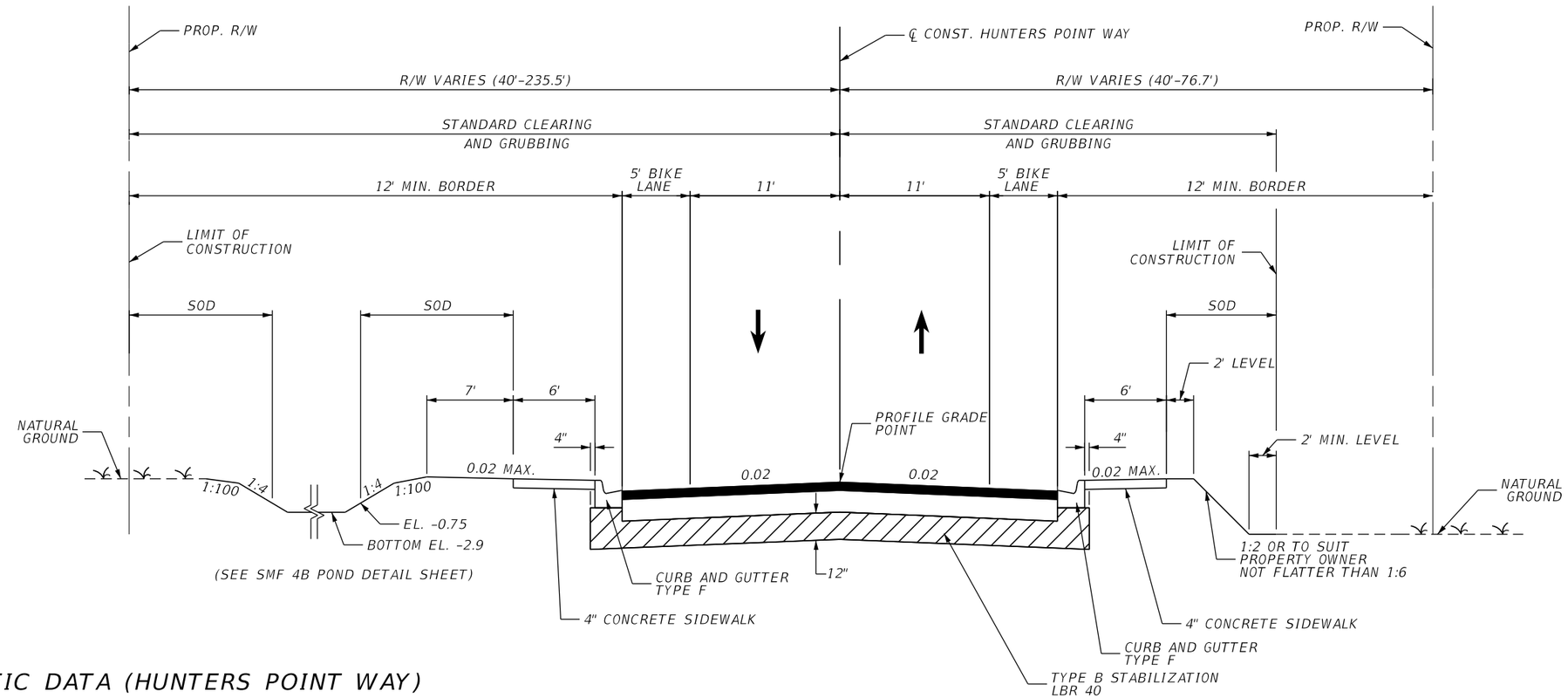
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TYPICAL SECTIONS

SHEET NO. 18



TRAFFIC DATA (HUNTERS POINT WAY)

CURRENT YEAR = 2025 AADT = 2,588
ESTIMATED OPENING YEAR = 2029 AADT = 2,738
ESTIMATED DESIGN YEAR = 2049 AADT = 3,488
K = 9.0% D = 57% T = 5.1% (24 HOUR)
DESIGN HOUR T = 2.6%
DESIGN SPEED = 20 MPH
CONTEXT CLASSIFICATION = C3R

TYPICAL SECTION #8
HUNTERS POINT WAY
STA. 10+24.30 TO STA. 17+02.63

NOTES:

1. COMPACTION OF ALL MATERIAL SHALL BE PERFORMED WITH ROLLERS OPERATING IN STATIC MODE.
2. ASPHALT DRIVEWAYS TO MATCH THE ADJACENT NEW CONSTRUCTION PAVEMENT DESIGN.

NEW CONSTRUCTION

OPTIONAL BASE GROUP 6 WITH
TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC B) (2")

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

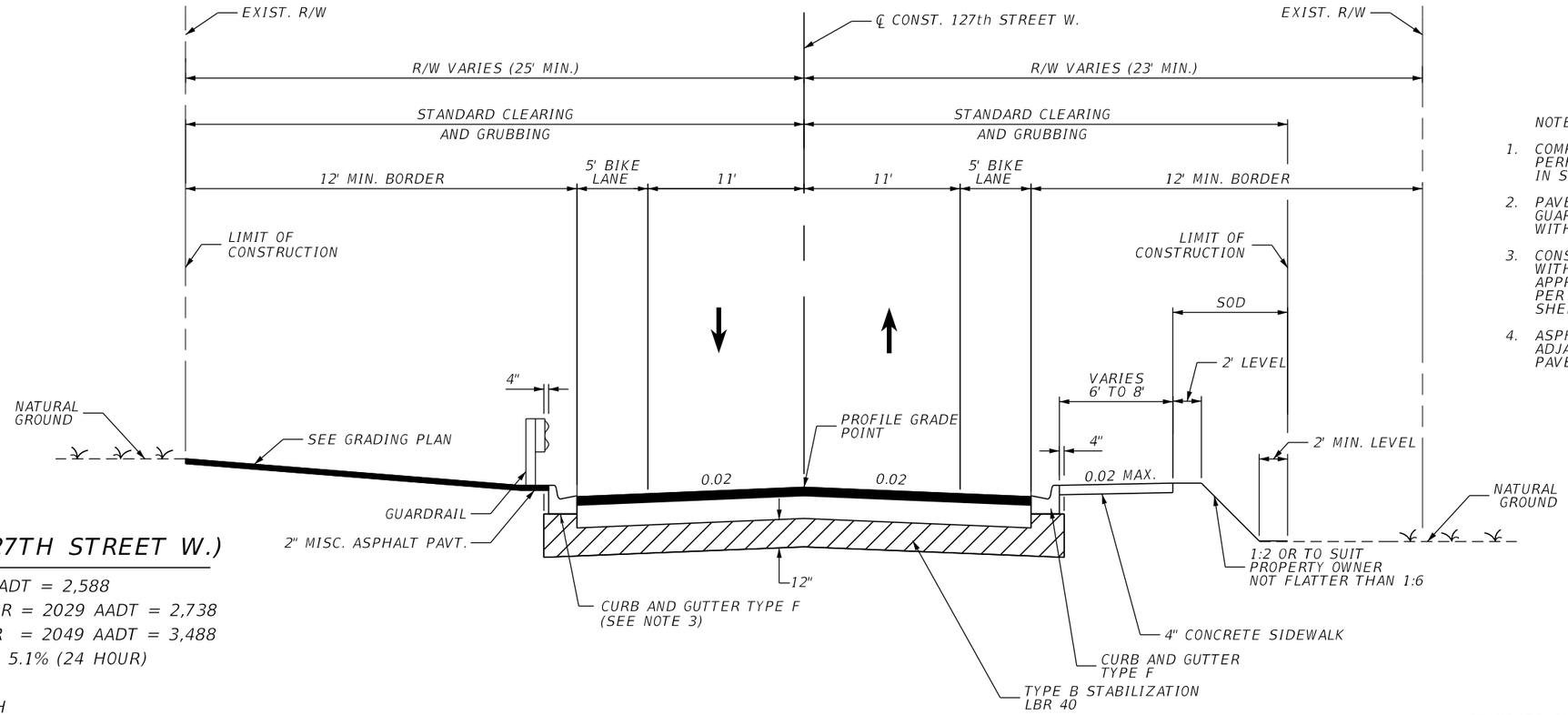
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TYPICAL SECTIONS

SHEET NO. 19

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



NOTES:

1. COMPACTION OF ALL MATERIAL SHALL BE PERFORMED WITH ROLLERS OPERATING IN STATIC MODE.
2. PAVE AREA UNDER BRIDGE BEHIND GUARDRAIL (LT) AND SIDEWALK (RT) WITH 2" MISC. ASPHALT.
3. CONSTRUCT TYPE E CURB & GUTTER WITHIN LIMITS OF GUARDRAIL APPROACH TERMINAL ASSEMBLY, PER STANDARD INDEX 536-001, SHEET 8, NOTE 2.
4. ASPHALT DRIVEWAYS TO MATCH THE ADJACENT NEW CONSTRUCTION PAVEMENT DESIGN.

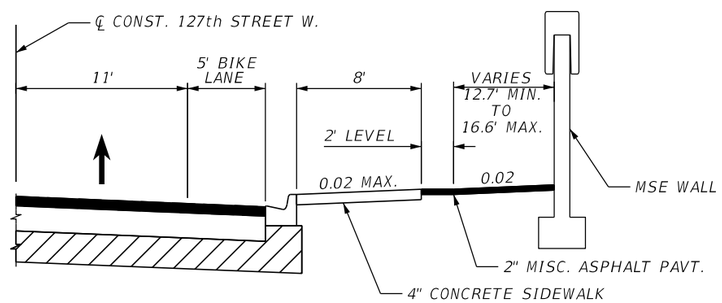
TRAFFIC DATA (127TH STREET W.)

CURRENT YEAR = 2025 AADT = 2,588
ESTIMATED OPENING YEAR = 2029 AADT = 2,738
ESTIMATED DESIGN YEAR = 2049 AADT = 3,488
K = 9.0% D = 57% T = 5.1% (24 HOUR)
DESIGN HOUR T = 2.6%
DESIGN SPEED = 30 MPH
CONTEXT CLASSIFICATION = C3R

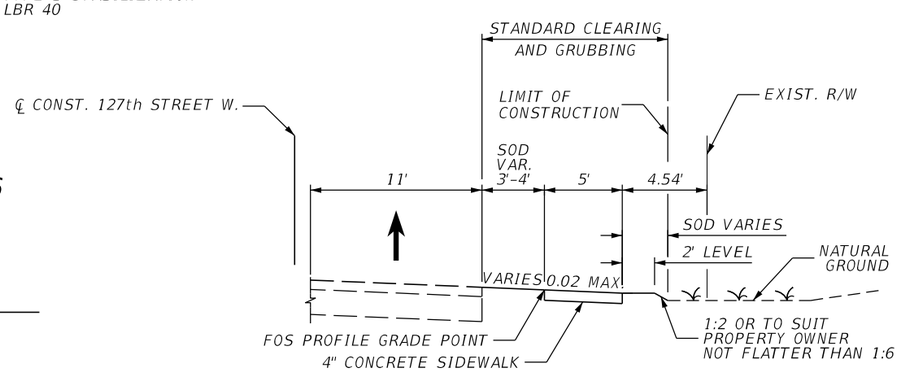
TYPICAL SECTION #9
127th STREET W.
STA. 40+18.39 TO STA. 42+01.66

NEW CONSTRUCTION

OPTIONAL BASE GROUP 6 WITH
TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC B) (2")



TYPICAL MSE WALL DETAIL
127th STREET W.
STA. 40+59.00 TO STA. 41+33.50



TYPICAL SIDEWALK DETAIL
127th STREET W.
STA. 42+01.66 TO STA. 43+07.43

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

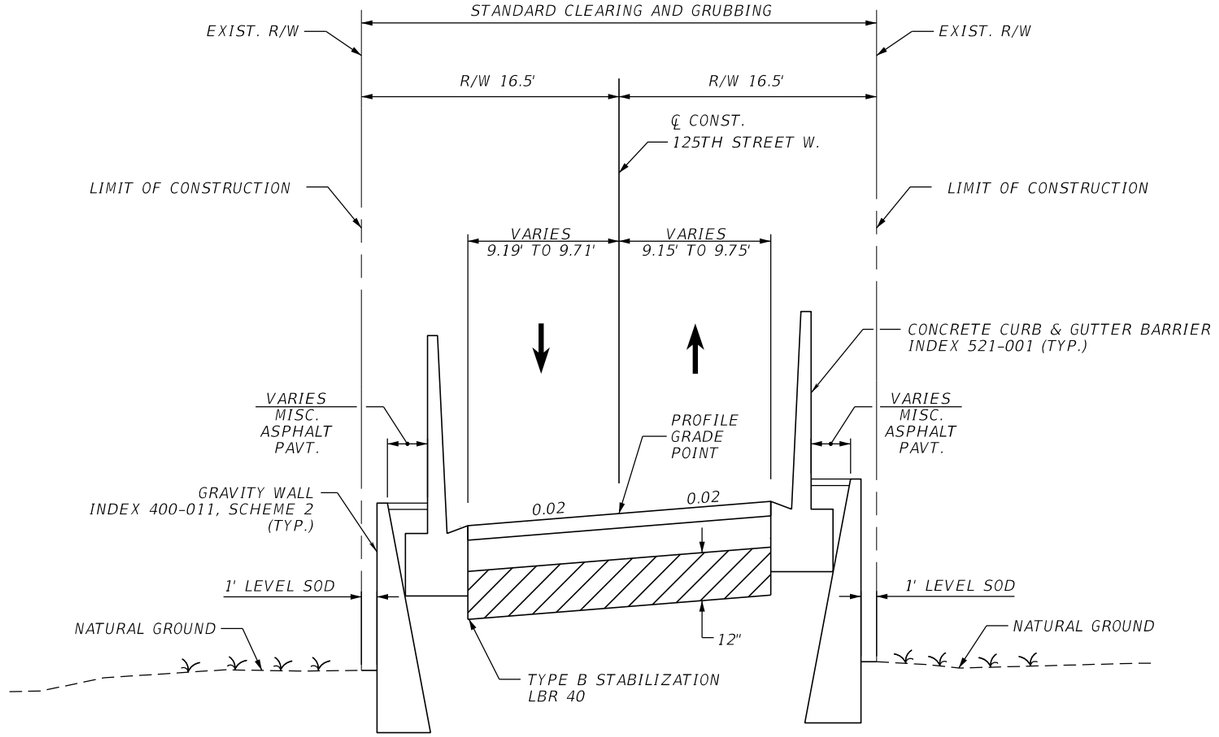
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TYPICAL SECTIONS

SHEET NO. 20

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TRAFFIC DATA (125TH STREET W.)

CURRENT YEAR = 2025 AADT = 2,588
ESTIMATED OPENING YEAR = 2029 AADT = 2,738
ESTIMATED DESIGN YEAR = 2049 AADT = 3,488
K = 9.0% D = 57% T = 5.1% (24 HOUR)
DESIGN HOUR T = 2.6%
DESIGN SPEED = 20 MPH
CONTEXT CLASSIFICATION = C3R

TYPICAL SECTION #10
125th STREET W.
STA. 30+23.00 TO STA. 31+03.45

NEW CONSTRUCTION

OPTIONAL BASE GROUP 6 WITH
TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC B) (2")

NOTES:

1. COMPACTION OF ALL MATERIAL SHALL BE PERFORMED WITH ROLLERS OPERATING IN STATIC MODE.
2. REFER TO STRUCTURES PLANS FOR GRAVITY WALL DETAILS.

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

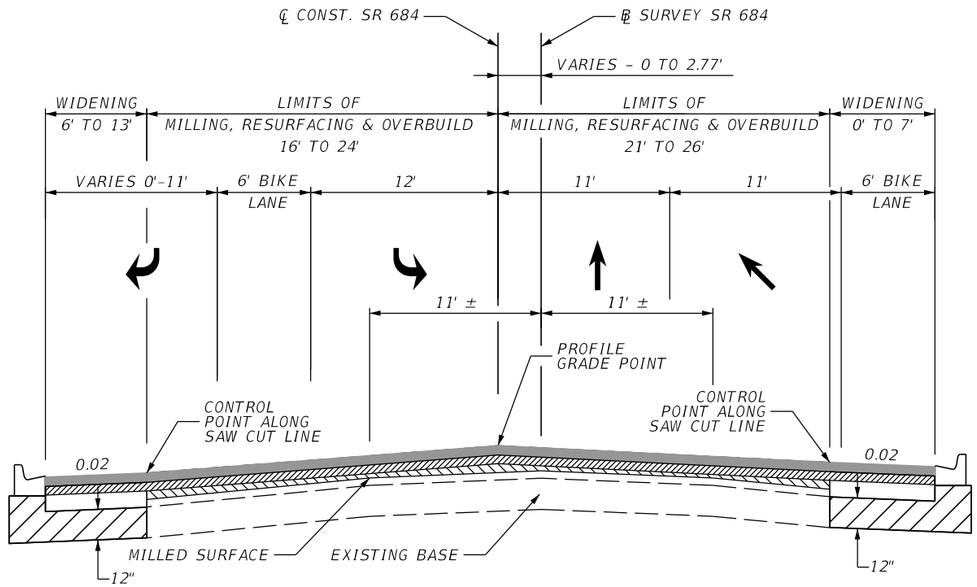
TYPICAL SECTIONS

SHEET NO. 21

SR 684 OVERBUILD DETAILS

STATION	LANE	EXIST. SLOPE (%)	PROP. SLOPE (%)	MAX. DEPTH OF OVERBUILD (IN)	WIDTH OF OVERBUILD (FT)	CROSS-SECTIONAL AREA OF OVERBUILD (SF)
207+20	WB LEFT TURN (L1)	2.2	2.2	0.0	10.0	0.0
207+25	WB LEFT TURN (L1)	2.4	2.3	0.2	10.0	0.1
207+30	WB LEFT TURN (L1)	2.3	2.5	0.4	10.0	0.2
207+35	WB LEFT TURN (L1)	2.3	2.6	0.6	10.0	0.3
207+40	WB LEFT TURN (L1)	2.7	2.4	0.9	10.0	0.6
207+45	WB LEFT TURN (L1)	2.3	2.2	1.1	10.0	0.9
207+50	WB LEFT TURN (L1)	2.3	2.0	1.6	10.0	1.3
207+20	WB RIGHT TURN (L2)	4.0	4.0	0.0	10.9	0.0
207+25	WB RIGHT TURN (L2)	4.0	3.4	0.7	10.9	0.3
207+30	WB RIGHT TURN (L2)	4.0	2.9	1.4	10.8	0.7
207+35	WB RIGHT TURN (L2)	4.1	2.6	2.3	10.8	1.1
207+40	WB RIGHT TURN (L2)	3.9	2.4	3.2	10.8	1.7
207+45	WB RIGHT TURN (L2)	4.3	2.2	4.0	10.8	2.3
207+50	WB RIGHT TURN (L2)	4.4	2.0	4.9	10.8	2.9
207+20	EB THRU (R1)	2.1	2.1	0.0	11.1	0.0
207+25	EB THRU (R1)	2.1	2.0	0.0	11.2	0.0
207+30	EB THRU (R1)	2.1	2.2	0.0	11.3	0.0
207+35	EB THRU (R1)	2.1	2.1	0.1	11.4	0.1
207+40	EB THRU (R1)	2.2	2.1	0.4	11.4	0.3
207+45	EB THRU (R1)	2.3	2.0	0.7	11.5	0.5
207+50	EB THRU (R1)	2.3	2.0	1.0	11.6	0.8
207+20	EB MERGE (R2)	2.5	2.5	0.0	10.7	0.0
207+25	EB MERGE (R2)	2.6	2.5	0.1	10.7	0.0
207+30	EB MERGE (R2)	2.8	2.3	0.6	10.7	0.3
207+35	EB MERGE (R2)	3.0	2.1	1.2	10.7	0.6
207+40	EB MERGE (R2)	3.2	2.1	1.9	10.7	1.0
207+45	EB MERGE (R2)	3.5	2.0	2.5	10.7	1.4
207+50	EB MERGE (R2)	3.7	2.0	3.2	10.6	1.8

OVERBUILD & RESURFACING DETAIL
WEST BRIDGE APPROACH
SR 684 (CORTEZ ROAD)
STA. 207+20.00 TO STA. 207+50.00



2" MILLING DEPTH

FC-12.5 (TRAFFIC B) (2") (PG 76-22)

TYPE SP-12.5 (TRAFFIC B) (2")

TYPE SP (TRAFFIC B) (3/4" AVG.) OVERBUILD
SEE TABLE FOR MAX. DEPTH OVERBUILD

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

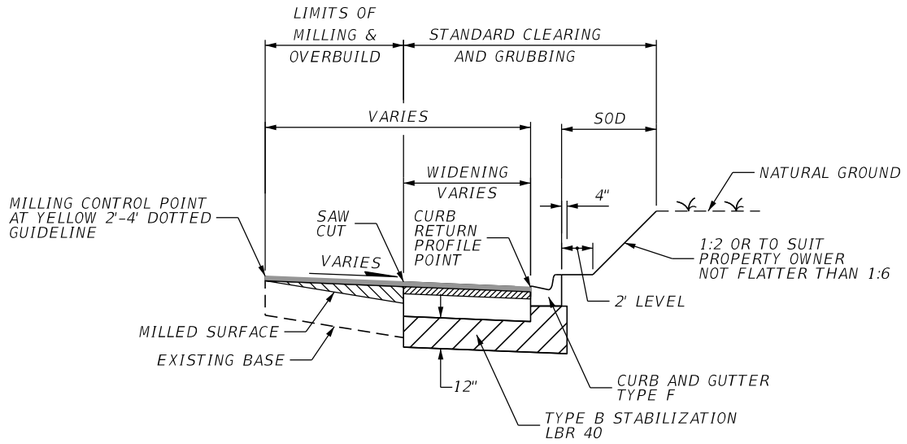
TYPICAL SECTIONS

SHEET NO. 22

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

NORTHEAST RETURN OVERBUILD DETAILS

LENGTH ALONG RETURN (CLOCKWISE DIRECTION)	LANE	EXIST. SLOPE (%)	PROP. SLOPE (%)	MAX. DEPTH OF OVERBUILD (IN)	WIDTH OF OVERBUILD (FT)	CROSS-SECTIONAL AREA OF OVERBUILD (SF)
0+00	WB RIGHT TURN	1.9	1.9	0.0	21.1	0.0
0+05	WB RIGHT TURN	1.4	1.4	0.0	20.1	0.0
0+10	WB RIGHT TURN	1.2	1.1	0.3	18.7	0.3
0+15	WB RIGHT TURN	2.9	1.0	4.0	17.6	2.9
0+20	WB RIGHT TURN	4.1	1.1	8.6	16.8	6.0
0+25	WB RIGHT TURN	4.8	1.3	6.6	16.1	4.5
0+30	WB RIGHT TURN	5.2	1.6	6.6	15.3	4.2
0+35	WB RIGHT TURN	5.9	1.9	7.0	14.5	4.2
0+40	WB RIGHT TURN	6.8	2.3	7.3	13.6	4.1
0+45	WB RIGHT TURN	7.0	2.8	6.4	12.7	3.4
0+50	WB RIGHT TURN	6.2	3.4	3.9	11.7	1.9
0+55	WB RIGHT TURN	5.1	3.9	1.5	10.8	0.7
0+59	WB RIGHT TURN	4.3	4.3	0.2	10.3	0.1



NORTHEAST CURB RETURN AND OVERBUILD & RESURFACING DETAIL SR 684 (CORTEZ ROAD) & GULF DRIVE

2" MILLING DEPTH

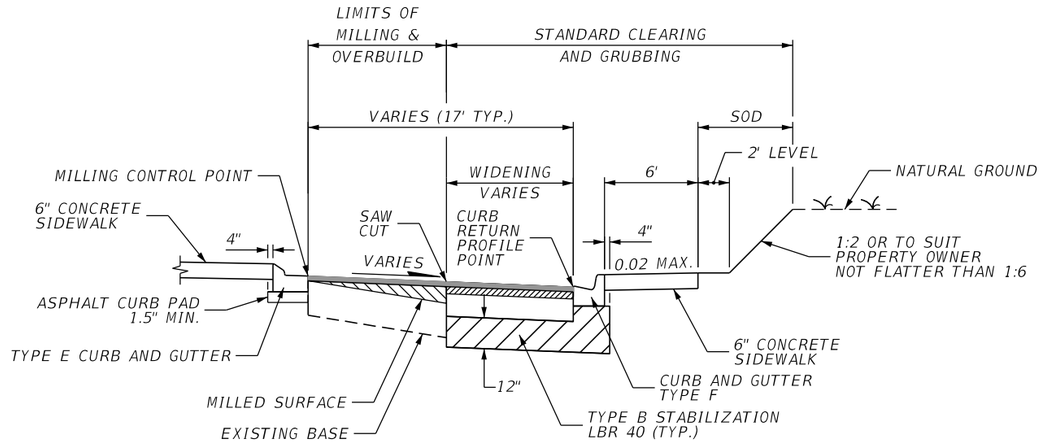
FC-12.5 (TRAFFIC B) (2") (PG 76-22)

TYPE SP-12.5 (TRAFFIC B) (2")

TYPE SP (TRAFFIC B) (1 5/8" AVG.) OVERBUILD
SEE TABLE FOR MAX. DEPTH OVERBUILD

SOUTHEAST RETURN OVERBUILD DETAILS

LENGTH ALONG RETURN (COUNTER-CLOCKWISE DIRECTION)	LANE	EXIST. SLOPE (%)	PROP. SLOPE (%)	MAX. DEPTH OF OVERBUILD (IN)	WIDTH OF OVERBUILD (FT)	CROSS-SECTIONAL AREA OF OVERBUILD (SF)
0+15	NB RIGHT TURN	3.6	3.6	0.0	11.00	0.0
0+20	NB RIGHT TURN	3.9	2.0	2.6	11.30	1.2
0+38	NB RIGHT TURN	2.6	1.4	1.7	12.17	0.9
0+46	NB RIGHT TURN	1.7	1.2	0.6	12.68	0.3
0+55	NB RIGHT TURN	2.6	2.0	1.0	13.69	0.6
0+73	NB RIGHT TURN	3.5	3.5	0.0	13.03	0.0



SOUTHEAST CURB RETURN AND OVERBUILD & RESURFACING DETAIL SR 684 (CORTEZ ROAD) & GULF DRIVE

2" MILLING DEPTH

FC-12.5 (TRAFFIC B) (2") (PG 76-22)

TYPE SP-12.5 (TRAFFIC B) (2")

TYPE SP (TRAFFIC B) (1/2" AVG.) OVERBUILD
SEE TABLE FOR MAX. DEPTH OVERBUILD

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TYPICAL SECTIONS

SHEET NO. 23

QUANTITY	STR. NO.	BASELINE	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL							CURB INLETS				MANHOLES					GUTTER INLETS	ADJACENT BARRIER INLETS		DITCH BOTTOM INLETS						CROSS DRAIN MITERED END SECTION				SODDING	OPTIONAL PIPE GROUP NUMBER	REMARKS
							ROUND				OTHER			J-1	P-5	J-5	P-9	P-7	P-7	J-8	J-7	J-7	V	J-BOT	J-BOT	C	C-MOD	D	D-MOD	E-MOD	H-MOD	ROUND		OTHER				
							15"	18"	24"	30"	14"x23"	19"x30"	24"x38"	<10'	<10'	<10'	<10'	PART	<10'	>10'	PART	<10'	<10'	<10'	>10'	<10'	<10'	<10'	<10'	J <10'	J <10'	18"	30"	19"x30"	24"x38"	SY		
P	S1-1	CL684	207+99.57	LT.	Manhole, Pipe	1	-	-	-	69	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	CAST-IN-PLACE 4.0'X4.0' J BOT.
F																																						
P	S1-1A	CL684	208+76.57	LT.	Manhole, Pipe	1	-	-	-	-	-	-	103	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	CAST-IN-PLACE 5.0'X7.0' J BOT.
F																																						
P	S1-1B	CL684	209+86.00	LT.	Manhole, Pipe	1	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5.0' DIA. J BOT.
F																																						
P	S1-1C	CL684	209+97.53	LT.	Manhole, Pipe	1	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5.0' DIA. J BOT. CONC. JACKET
F																																						
P	S1-2	CL684	206+46.76	LT.	Manhole, Pipe	1	-	-	-	146	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	SPECIAL MH, SEE DRAINAGE DETAIL (02)
F																																						
P	S1-3	CL684	206+12.00	LT.	Inlet, Pipe	1	-	-	-	-	-	-	34	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	6.0' DIA. J BOT.
F																																						
P	S1-4	CL684	205+45.00	LT.	Inlet, Pipe	1	-	-	-	-	62	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
F																																						
P	S1-5	SR789	193+36.23	RT.	Manhole, Pipe	1	-	-	-	-	7	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	TIE TO EXIST. BOT., ADJUST TOP
F																																						
P	S1-5A	SR789	193+39.21	RT.	Inlet, Pipe	1	-	-	-	-	36	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4.0' DIA. BOT.
F																																						
P	S1-6	CL684	206+01.98	RT.	Inlet, Pipe	1	-	-	53	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	JACK & BORE 6.0' DIA. J BOT.
F																																						
P	S1-7	CL684	205+96.79	RT.	MES, Pipe	1	-	-	-	-	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	30	5	
F																																						
P	S2-1	CL684	246+18.24	LT.	Manhole	1	5	-	-	5	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1, 4	5.0' DIA. J BOT.,
F																																						
P	S2-2	CL684	246+00.46	LT.	Manhole, Pipe	1	-	-	-	14	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4.0'X4.0' J BOT.
F																																						
P	S2-3	CL684	245+36.57	LT.	Inlet, Pipe	1	-	-	-	61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	4	SINGLE 12" SLOT
F																																						
P	S2-4	CL684	244+55.00	LT.	Inlet, Pipe	1	-	-	-	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	4	SINGLE 12" SLOT
F																																						
P	S2-5	CLHPW	10+42.23	RT.	Manhole, Pipe	1	-	-	-	63	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5.0' DIA. J BOT.
F																																						
P	S2-6	CLHPW	12+50.00	RT.	Manhole, Pipe	1	-	-	-	204	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	6.0'x6.0' J BOT.
F																																						
P	S2-7	CL684	246+00.24	RT.	Manhole, Pipe	1	-	16	-	76	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	SPECIAL MH 4.0'X4.0' J BOT.
F																																						
	Sheet Summary		P Total				5	16	53	717	105	17	149	0	1	2	1	1	0	0	0	10	0	0	0	0	0	0	0	2	0	0	0	1	0	30		
			F Total																																			

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF DRAINAGE STRUCTURES (01)

SHEET NO. 24

QUANTITY	STR. NO.	BASELINE	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL							CURB INLETS				MANHOLES					GUTTER INLETS	ADJACENT BARRIER INLETS		DITCH BOTTOM INLETS						CROSS DRAIN MITERED END SECTION				SODDING	OPTIONAL PIPE GROUP NUMBER	REMARKS
							ROUND				OTHER			J-1	P-5	J-5	P-9	P-7	P-7	J-8	J-7	J-7	V	J-BOT	J-BOT	C	C-MOD	D	D-MOD	E-MOD	H-MOD	ROUND		OTHER				
							15"	18"	24"	30"	14"x23"	19"x30"	24"x38"	<10'	<10'	<10'	<10'	PART	<10'	>10'	PART	<10'	<10'	<10'	>10'	<10'	<10'	<10'	<10'	J <10'	J <10'	18"	30"	19"x30"	24"x38"	SY		
P	S2-8	CL684	244+37.19	RT.	Manhole, Pipe	1	-	-	-	15	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	
F																																						
P	S2-8A	CL684	244+56.80	RT.	Manhole, Pipe	1	-	-	-	139	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5.0' DIA. J BOT.
F																																						
P	S2-9	CL125STW	30+86.38	RT.	Manhole, Pipe	1	-	-	-	-	41	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
F																																						
P	S2-9A	CL125STW	31+04.73	LT.	Inlet, Pipe	1	-	-	-	-	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2	CONNECT. EXIST. 10" 4.0'X5.0' J BOT.
F																																						
P	S2-9B	CL125STW	30+86.38	RT.	Inlet, Pipe	1	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2	CONNECT. EXIST. 10" 4.0'X5.0' J BOT.
F																																						
P	S2-10	CL684	243+14.04	RT.	Manhole, Pipe	1	-	120	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	CONNECT. EXIST. 8"
F																																						
P	S2-11	CL684	242+14.64	RT.	Manhole, Pipe	1	-	96	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	CONNECT. EXIST. 10"
F																																						
P	S3-1	CL684	208+18.10	RT.	MES		-	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	25	-	INCLUDES SMF EQUILIZING PIPE
F																																						
P	S3-2	CL684	207+39.52	RT.	Manhole, Pipe	1	-	76	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
F																																						
P	S3-3	CL684	207+16.00	RT.	Inlet, Pipe	1	-	31	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
F																																						
P	S3-4	CL684	208+06.00	LT.	Inlet, Pipe	1	-	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	4.0'x6.0' J BOT.
F																																						
P	S3-5	CL684	208+70.00	LT.	Inlet, Pipe	1	-	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	7	4.0'x6.0' J BOT.
F																																						
P	S3-6	CL684	209+30.00	LT.	Inlet, Pipe	1	-	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	7	4.0'x6.0' J BOT.
F																																						
P	S3-8	CL684	210+28.00	RT.	MES		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	28	-	
F																																						
P	S3-9A	CL684	210+68.00	RT.	Inlet, Pipe	1	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	7	4.0'x6.0' J BOT.
F																																						
P	S3-9B	CL684	210+48.00	RT.	Inlet, Pipe	1	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	7	4.0'x6.0' J BOT.
F																																						
P	S3-9C	CL684	210+28.00	RT.	Inlet, Pipe	1	-	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	8	4.0'x6.0' J BOT.
F																																						
P	S3-10A	CL684	210+68.00	LT.	Inlet, Pipe	1	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	7	4.0'x6.0' J BOT. CAST IRON GRATE
F																																						
Sheet Summary					P Total		0	614	30	154	69	0	0	0	1	0	0	0	5	0	0	1	0	6	1	2	0	0	0	0	0	2	0	0	0	53		
					F Total																																		

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF DRAINAGE STRUCTURES (02)

SHEET NO. 25

QUANTITY	STR. NO.	BASELINE	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL							CURB INLETS				MANHOLES						GUTTER INLETS	ADJACENT BARRIER INLETS		DITCH BOTTOM INLETS						CROSS DRAIN MITERED END SECTION				SODDING	OPTIONAL PIPE GROUP NUMBER	REMARKS
							ROUND				OTHER			J-1	P-5	J-5	P-9	P-7	P-7	J-8	J-7	J-7	V	J-BOT	J-BOT	C	C-MOD	D	D-MOD	E-MOD	H-MOD	ROUND		OTHER				
							15"	18"	24"	30"	14"x23"	19"x30"	24"x38"	<10'	<10'	<10'	<10'	PART	<10'	>10'	PART	<10'	<10'	<10'	>10'	<10'	<10'	<10'	<10'	J <10'	J <10'	18"	30"	19"x30"	24"x38"	SY		
P	S3-10B	CL684	210+48.00	LT.	Inlet, Pipe	1	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	7	4.0'x6.0' J BOT. CAST IRON GRATE
F																																							
P	S3-10C	CL684	210+28.00	LT.	Inlet, Pipe	1	-	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	7	4.0'x6.0' J BOT. CAST IRON GRATE
F																																							
P	S3-11	CL684	209+66.24	RT.	MES		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	25	-	
F																																							
P	CS3-1	CL684	209+38.56	RT.	Inlet, Pipe	1	-	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	25	1	SMF 3-1 CS
F																																							
P	CS3-2	CL684	211+42.14	LT.	Inlet, Pipe	1	-	-	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	SMF 3-2 CS, PIPE THROUGH SEAWALL
F																																							
P	S4-1	CL684	242+79.74	LT.	MES		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	31	1	
F																																							
P	S4-2	CL684	243+17.31	LT.	Manhole, Pipe	1	-	-	-	49	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5.0' DIA. J BOT.
F																																							
P	S4-3	CL684	243+17.31	LT.	Inlet, Pipe	1	-	-	22	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	3.5'x8.0' J BOT.
F																																							
P	S4-5A	CL684	240+69.00	LT.	Inlet, Pipe	1	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	7	4.0'x6.0' J BOT.
F																																							
P	S4-5B	CL684	240+89.00	LT.	Inlet, Pipe	1	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	7	4.0'x6.0' J BOT.
F																																							
P	S4-5C	CL684	241+09.00	LT.	Inlet, Pipe	1	-	-	205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	7	4.0'x6.0' J BOT.
F																																							
P	S4-6A	CL684	240+69.00	RT.	Inlet, Pipe	1	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	7	4.0'x6.0' J BOT.
F																																							
P	S4-6B	CL684	240+89.00	RT.	Inlet, Pipe	1	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	7	4.0'x6.0' J BOT.
F																																							
P	S4-6C	CL684	241+09.00	RT.	Inlet, Pipe	1	-	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	7	4.0'x6.0' J BOT.
F																																							
P	S4-7	CL684	244+30.00	LT.	Manhole, Pipe	1	-	110	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
F																																							
P	S4-8	CL684	243+91.00	RT.	Inlet, Pipe	1	-	64	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
F																																							
P	S4-9	CL684	245+82.00	LT.	Inlet, Pipe	1	-	148	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
F																																							
P	S4-10	CL684	245+82.00	RT.	Inlet, Pipe	1	-	45	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
F																																							
Sheet Summary					P Total / F Total		0	547	255	49	0	0	0	0	3	1	0	0	1	1	0	0	0	8	0	0	0	0	1	0	1	1	1	0	0	81		

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF DRAINAGE STRUCTURES (03)

SHEET NO. 26

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

QUANTITY	STR. NO.	BASELINE	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL							CURB INLETS				MANHOLES					GUTTER INLETS	ADJACENT BARRIER INLETS		DITCH BOTTOM INLETS						CROSS DRAIN MITERED END SECTION				SODDING	OPTIONAL PIPE GROUP NUMBER	REMARKS
							ROUND				OTHER			J-1	P-5	J-5	P-9	P-7	P-7	J-8	J-7	J-7	V	J-BOT	J-BOT	C	C-MOD	D	D-MOD	E-MOD	H-MOD	ROUND		OTHER				
							15"	18"	24"	30"	14"x23"	19"x30"	24"x38"	<10'	<10'	<10'	<10'	PART	<10'	>10'	PART	<10'	<10'	<10'	>10'	<10'	<10'	<10'	<10'	J <10'	J <10'	18"	30"	19"x30"	24"x38"	SY		
P	S4-11	CLHPW	15+03.76	LT.	MES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	25	-	
F																																						
P	S4-12	CLHPW	15+32.00	RT.	Inlet, Pipe	1	-	79	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
F																																						
P	S4-13	CLHPW	16+61.00	RT.	Inlet, Pipe	1	-	126	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
F																																						
P	S4-14	CLHPW	16+82.00	LT.	Inlet, Pipe	1	-	37	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
F																																						
P	CS-4B	CLHPW	12+50.00	LT.	Inlet, Pipe	1	-	-	-	-	-	-	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	5	SMF 4B CS
F																																						
P	S5-1	CL127STW	43+64.04	RT.	Manhole	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	TIE TO EXIST. BOT. ADJUST TOP
F																																						
P	S5-2	CL127STW	43+09.00	RT.	Manhole, Pipe	1	-	-	-	-	53	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
F																																						
P	S5-3	CL127STW	41+93.20	RT.	Inlet, Pipe	1	-	-	-	-	114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	SINGLE 12" SLOT
F																																						
P	S5-4	CLHPW	16+50.00	LT.	Inlet, Pipe	1	-	-	-	-	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	SINGLE 12" SLOT
F																																						
P	TEMPORARY DRAINAGE				Misc.	1	33	34	4	8	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	TEMP. INLET, TEMP. MANHOLE TOP, AND TEMP. PIPES AND TEMP. COLLAR (1)
F																																						
	Sheet Summary				P Total		33	276	4	8	214	0	72	0	3	0	0	2	1	0	0	0	2	0	0	0	1	0	1	0	1	1	0	0	0	25		
					F Total																																		
	Final Summary				P Total		38	1453	342	928	388	17	221	0	8	3	1	3	7	1	0	11	2	14	1	2	1	0	2	2	2	4	1	1	0	189		
					F Total																																		

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF DRAINAGE STRUCTURES (04)

SHEET NO. 27

OPTIONAL MATERIALS NOTES

1. THE CONTRACTOR MAY USE ANY OF THE OPTIONAL PIPE MATERIALS TABULATED FOR A GIVEN STRUCTURE. ONLY THE MATERIAL OPTIONS TABULATED FOR A GIVEN STRUCTURE CAN BE USED.

2. ADJUSTMENTS TO THE BID QUANTITIES, PRICES AND PAYMENT WILL NOT BE ALLOWED DUE TO INCREASE OR DECREASE IN STRUCTURE SIZE, SHAPE, LENGTH, WIDTH, DEPTH, OR ACCESSORY CONSTRUCTION NECESSARY TO ACCOMMODATE THE USE OF AN OPTIONAL PIPE MATERIAL OTHER THAN THE "PLOTTED" OPTION; LIKEWISE THERE WILL BE NO ADDED OR REDUCED COMPENSATION FOR STRUCTURE ALTERATIONS REQUIRED TO RELIEVE UTILITY CONFLICTS WHICH ARISE FROM THE USE OF AN OPTIONAL MATERIAL OTHER THAN THE "PLOTTED" OPTION.

3. ADJUSTMENT TO THE BID QUANTITIES, PRICES AND PAYMENT WILL NOT BE ALLOWED DUE TO INCREASED OR DECREASED EXCAVATION, BEDDING, BORROW, BACK FILLING, COMPACTION, SPECIAL INSTALLATION REQUIREMENTS, OR DISPOSAL OF EXCESS MATERIALS DUE TO USE OF ANY OF THE PIPE OPTIONAL MATERIALS. LIKEWISE, ADJUSTMENTS IN THE QUANTITIES, PRICES, AND PAYMENT WILL NOT BE ALLOWED DUE TO DIFFERENCE IN END TREATMENT SIZE OR TYPES, PIPE LENGTH, ALTERNATIVE JOINTING AND CONNECTING MATERIALS, SADDLES, CRADLES, FILTER FABRICS, SHORTING OR SIMILAR FEATURES DUE TO THE USE OF AN OPTIONAL MATERIAL OTHER THAN THE "PLOTTED" OPTION.

4. IF ADJUSTMENTS ARE REQUIRED DUE TO PLAN ERRORS OR OMISSIONS OR AUTHORIZED FIELD CHANGES, THE "PLOTTED" MATERIAL AND NOT THE MATERIAL ELECTED BY THE CONTRACTOR WOULD BE USED TO ESTABLISH NEW PAY QUANTITIES.

5. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT IN WRITING AS TO WHICH OPTIONAL PIPE MATERIAL HE CHOOSES TO USE AT THE PRE CONSTRUCTION CONFERENCE. ONCE IDENTIFIED THE CONTRACTOR MAY NOT CHANGE PIPE MATERIAL SELECTED WITHOUT THE APPROVAL OF THE ENGINEER.

6. PIPE SHAPES OTHER THAN ROUND (ELLIPTICAL/ARCH) ARE SUMMARIZED AND PAID FOR USING EQUIVALENT ROUND PIPE DIAMETER.

7. IF CHOSEN OPTIONAL MATERIAL GROUP IS WITHIN WALL ZONE, ALL CONNECTIONS ARE TO BE DONE WITH RESILIENT CONNECTORS.

OPTIONAL MATERIALS TABULATION

STRUCTURE GROUP	SIZE (IN.)	MATERIAL	PLOTTED	AS BUILT	REMARKS
GROUP 1	18" - 24"	(RCP) STEEL-REINFORCED CONC, CL III	X		
		(NRCP) NON-REINFORCED CONC, CL III			
		(SRAP) ALUMINUM-SPIRAL RIB, 16 GA.			
		(PVC) POLYVINYL CHLORIDE, ASTM F-949			
		(PP) POLYPROPYLENE			
GORUP 2	14"x23"	(ERCP) STEEL-REINFORCED CONC, CL III	X		
GORUP 3	19"x30"	(ERCP) STEEL-REINFORCED CONC, CL III	X		
GROUP 4	30"	(RCP) STEEL-REINFORCED CONC, CL III	X		
		(NRCP) NON-REINFORCED CONC, CL III			
		(SRAP) ALUMINUM-SPIRAL RIB, 16 GA.			
		(PVC) POLYVINYL CHLORIDE, ASTM F-949			
		(SRPE) STEEL REINFORCED POLYTHYLENE			
		(PP) POLYPROPYLENE			
GORUP 5	24"x38"	(ERCP) STEEL-REINFORCED CONC, CL III	X		
GORUP 6	18" - 30"	STEEL PIPE	X		JACK & BORE
GORUP 7	18" - 24"	(RCP) STEEL-REINFORCED CONC, CL III	X		WALL ZONE B
		(SRAP) ALUMINUM-SPIRAL RIB, 16 GA.			
GORUP 8	18"	(DIP) DUCTILE IRON PIPE	X		VERTICAL DRAIN

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

OPTIONAL MATERIALS TABULATION

SHEET NO. 28

N 16° 57' 06" W

END MILLING AND RESURFACING
STA. 194+30.00 ℄ SURVEY/CONST. SR 789

STA. 204+91.52 ℄ CONST. SR 684
STA. 193+06.71 ℄ SURVEY/CONST. SR 789

BEGIN PROJECT
BEGIN MILLING, RESURFACING & WIDENING
STA. 205+05.63 ℄ CONST. SR 684 =
STA. 93+78.50 ℄ SURVEY/CONST. SR 789

BEGIN BRIDGE
STA. 211+03.50 ℄ CONST. SR 684

PI STA. 205+42.13
CUR CL11
PCC STA. 205+90.84

CUR CL12

PRC STA. 211+76.02

PI STA. 214+34.79

PT STA. 216+93.57

PC STA. 230+39.71

CUR CL13

CUR CL14

℄ CONST. SR 684
N 83° 56' 34" E

SR 684

N 83° 56' 34" E

℄ SURVEY SR 684

CUR C6
S 89° 40' 37" E

PC STA. 204+93.42
PC STA. 93+66.29
℄ SURVEY
PI STA. 192+67.44

POT STA. 204+50.00

GULF DR

PI STA. 96+85.64

PI STA. 208+84.72

PT STA. 100+04.33

MATCHLINE STA.232+64.75

END MILLING, RESURFACING & WIDENING
BEGIN RECONSTRUCTION
STA. 207+50.00 ℄ CONST. SR 684

BEGIN MILLING AND RESURFACING
STA. 192+11.65 ℄ SURVEY/CONST. SR 789

N 17° 05' 06" W

1" = 200'

0 50 200
Feet

CURVE DATA C6
PI STA. = 96+85.64
Δ = 6° 22' 49" (LT)
D = 1° 00' 00"
T = 319.35
L = 638.04
R = 5,729.58
PC STA. = 93+66.29
PT STA. = 100+04.33

CURVE DATA CL11
PI STA. = 205+42.13
Δ = 0° 58' 27" (LT)
D = 1° 00' 00"
T = 48.71
L = 97.42
R = 5,729.58
PC STA. = 204+93.42
PCC STA. = 205+90.84
e = N.C

CURVE DATA CL12
PI STA. = 208+84.72
Δ = 13° 10' 08" (LT)
D = 2° 15' 02"
T = 293.88
L = 585.17
R = 2,546.00
PCC STA. = 205+90.84
PRC STA. = 211+76.02
e = N.C

CURVE DATA CL13
PI STA. = 214+34.79
Δ = 7° 45' 46" (RT)
D = 1° 30' 00"
T = 259.17
L = 517.56
R = 3,820.00
PRC STA. = 211+76.02
PT STA. = 216+93.57
e = N.C

CURVE DATA CL14
PI STA. = 233+77.63
Δ = 6° 57' 22" (RT)
D = 1° 01' 50"
T = 337.93
L = 675.02
R = 5,560.00
PC STA. = 230+39.71
PT STA. = 237+14.73
e = N.C

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

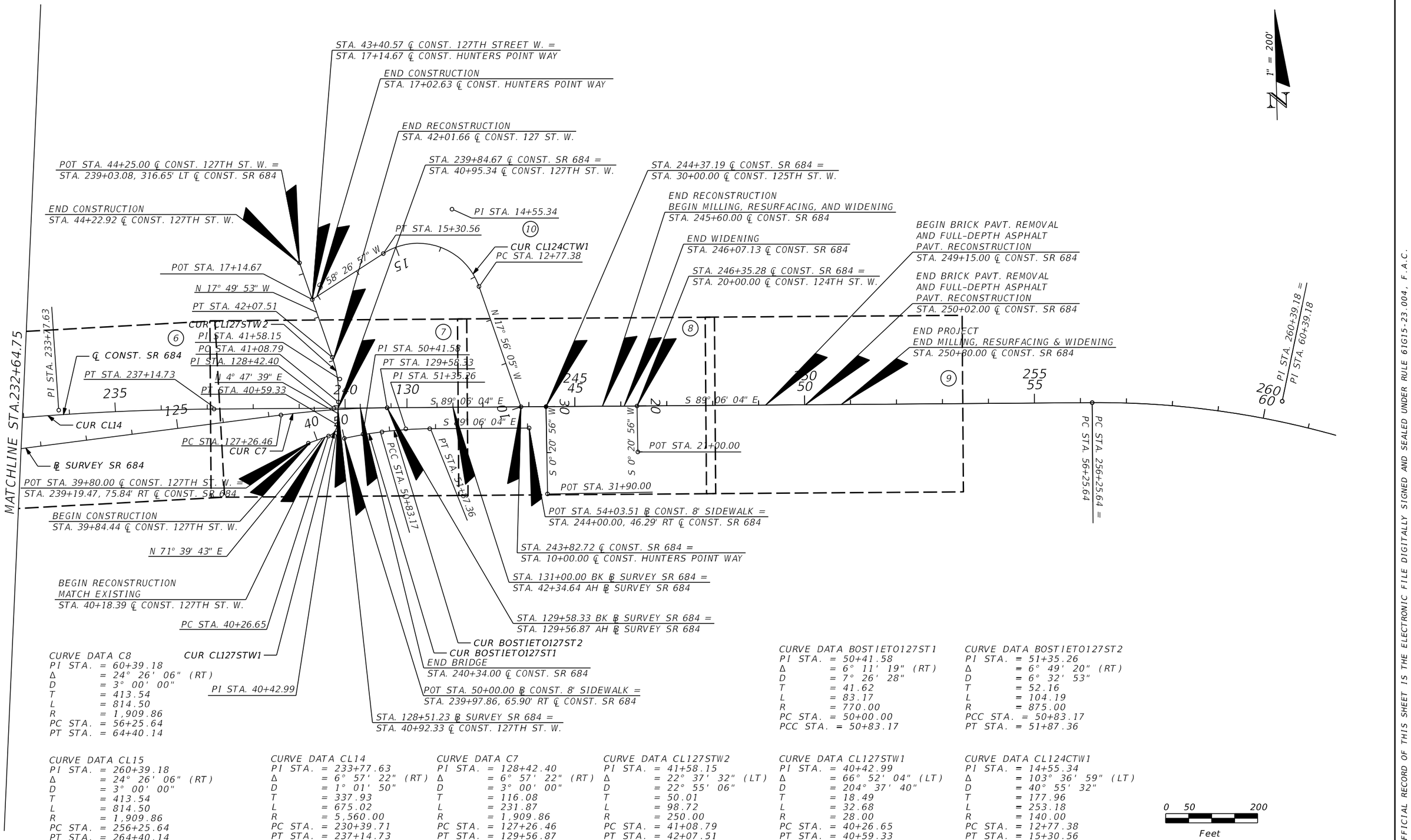
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

PROJECT LAYOUT
SR 684 (CORTEZ ROAD W)

SHEET NO. 29

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



CURVE DATA C8
PI STA. = 60+39.18
Δ = 24° 26' 06" (RT)
D = 3° 00' 00"
T = 413.54
L = 814.50
R = 1,909.86
PC STA. = 56+25.64
PT STA. = 64+40.14

CURVE DATA CL15
PI STA. = 260+39.18
Δ = 24° 26' 06" (RT)
D = 3° 00' 00"
T = 413.54
L = 814.50
R = 1,909.86
PC STA. = 256+25.64
PT STA. = 264+40.14

CURVE DATA CL14
PI STA. = 233+77.63
Δ = 6° 57' 22" (RT)
D = 1° 01' 50"
T = 337.93
L = 675.02
R = 5,560.00
PC STA. = 230+39.71
PT STA. = 237+14.73
e = N.C.

CURVE DATA C7
PI STA. = 128+42.40
Δ = 6° 57' 22" (RT)
D = 3° 00' 00"
T = 116.08
L = 231.87
R = 1,909.86
PC STA. = 127+26.46
PT STA. = 129+56.87

CURVE DATA CL127STW2
PI STA. = 41+58.15
Δ = 22° 37' 32" (LT)
D = 22° 55' 06"
T = 50.01
L = 98.72
R = 250.00
PC STA. = 41+08.79
PT STA. = 42+07.51

CURVE DATA BOSTIETO127ST1
PI STA. = 50+41.58
Δ = 6° 11' 19" (RT)
D = 7° 26' 28"
T = 41.62
L = 83.17
R = 770.00
PC STA. = 50+00.00
PCC STA. = 50+83.17

CURVE DATA CL127STW1
PI STA. = 40+42.99
Δ = 66° 52' 04" (LT)
D = 204° 37' 40"
T = 18.49
L = 32.68
R = 28.00
PC STA. = 40+26.65
PT STA. = 40+59.33

CURVE DATA BOSTIETO127ST2
PI STA. = 51+35.26
Δ = 6° 49' 20" (RT)
D = 6° 32' 53"
T = 52.16
L = 104.19
R = 875.00
PCC STA. = 50+83.17
PT STA. = 51+87.36

CURVE DATA CL124CTW1
PI STA. = 14+55.34
Δ = 103° 36' 59" (LT)
D = 40° 55' 32"
T = 177.96
L = 253.18
R = 140.00
PC STA. = 12+77.38
PT STA. = 15+30.56

0 50 200
Feet

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

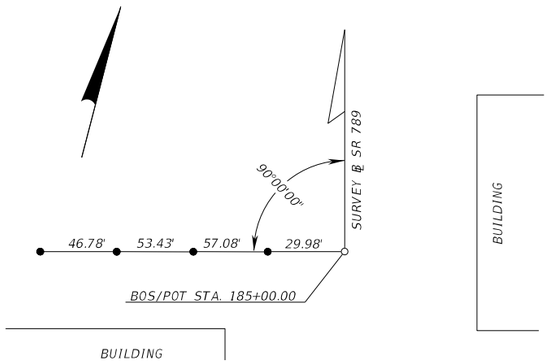
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

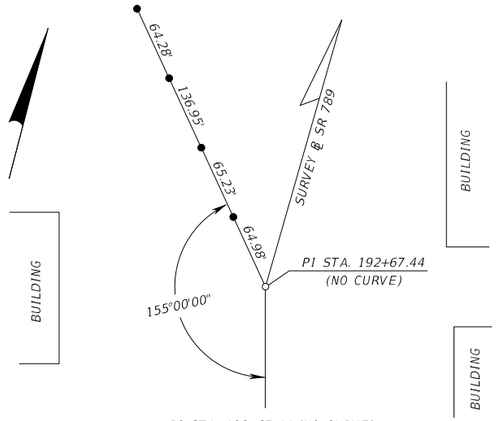
PROJECT LAYOUT
SR 684 (CORTEZ ROAD W)

SHEET NO. 30

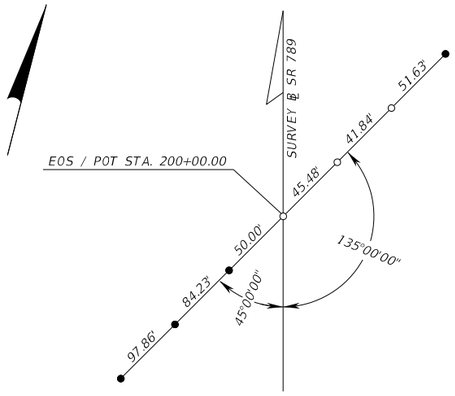
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



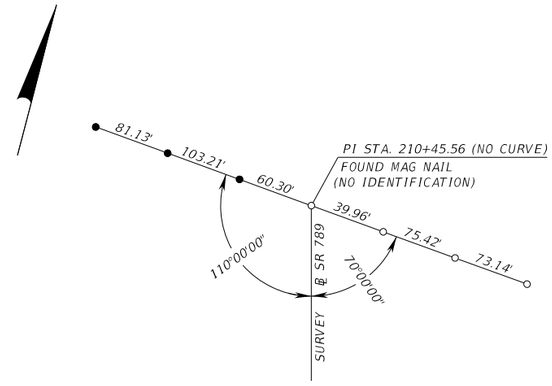
BOS / POT STA. 185+00.00
SET MAG NAIL & DISK "LB 7917"
SURVEY BASELINE SR 789 (GULF DRIVE)



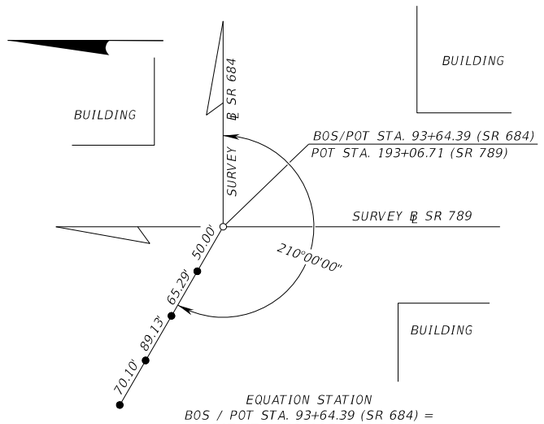
PI STA. 192+67.44 (NO CURVE)
SET MAG NAIL & DISK "LB 7917"
SURVEY BASELINE SR 789 (GULF DRIVE)



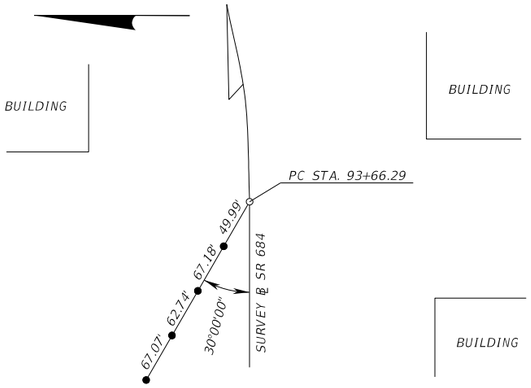
EOS / POT STA. 200+00.00
SET MAG NAIL & DISK "LB 7917"
SURVEY BASELINE SR 789 (GULF DRIVE)



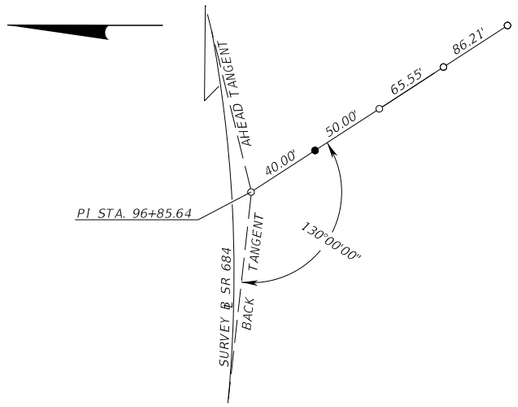
PI STA. 210+45.56 (NO CURVE)
FOUND MAG NAIL (NO IDENTIFICATION)
SURVEY BASELINE SR 789 (GULF DRIVE)



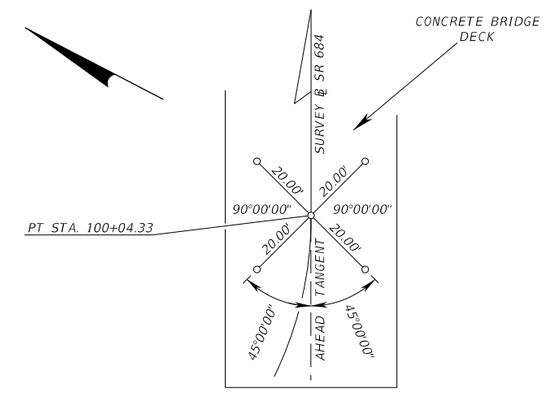
EQUATION STATION
BOS / POT STA. 93+64.39 (SR 684) =
POT STA. 193+06.71 (SR 789)
SET MAG NAIL & DISK "LB 7917"
SURVEY BASELINE SR 684 (CORTEZ ROAD)



PC STA. 93+66.29
SET MAG NAIL & DISK "LB 7917"
SURVEY BASELINE SR 684 (CORTEZ ROAD)



PI STA. 96+85.64
SET MAG NAIL & DISK "LB 7917"
SURVEY BASELINE SR 684 (CORTEZ ROAD)



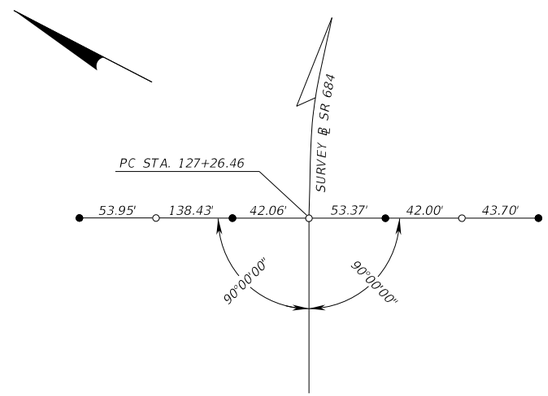
PT STA. 100+04.33
SET MAG NAIL & DISK "LB 7917"
SURVEY BASELINE SR 684 (CORTEZ ROAD)

NOT SET OR REFERENCED

POT STA. 110+00.00
SET MAG NAIL & DISK "LB 7917"
SURVEY BASELINE SR 684 (CORTEZ ROAD)

NOT SET OR REFERENCED

POT STA. 120+00.00
SET MAG NAIL & DISK "LB 7917"
SURVEY BASELINE SR 684 (CORTEZ ROAD)



PC STA. 127+26.46
SET MAG NAIL & DISK "LB 7917"
SURVEY BASELINE SR 684 (CORTEZ ROAD)

● = SET ½" IRON ROD & CAP "LB 7917" (UNLESS OTHERWISE NOTED)

○ = SET MAG NAIL AND DISK "LB 7917" (UNLESS OTHERWISE NOTED)

SR 684
FROM: SR 789
TO: 123rd STREET WEST
F.P. ID.: 430204-2
SURVEY PERFORMED BY: MCKIM & CREED, INC.
SURVEY DATE: JUNE 2018

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

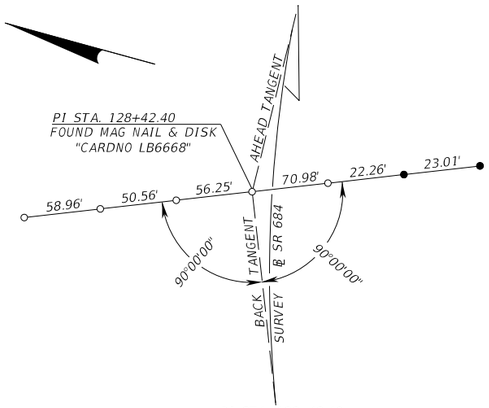
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

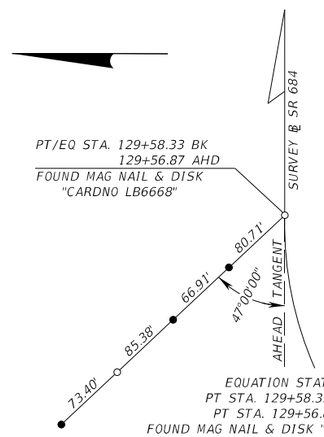
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

PROJECT CONTROL

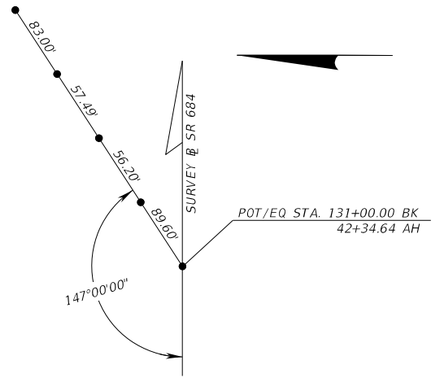
SHEET NO. 31



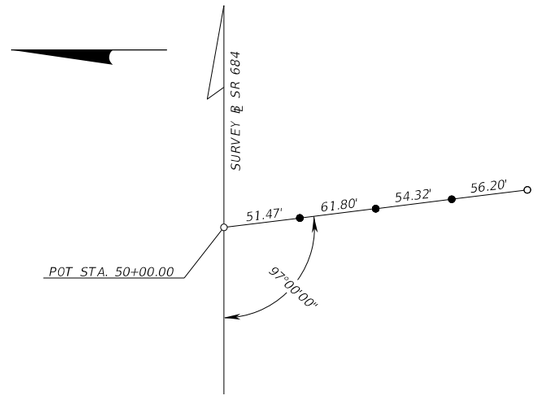
PI STA. 128+42.40
FOUND MAG NAIL & DISK "CARDNO LB6668"
SURVEY BASELINE SR 684 (CORTEZ ROAD)



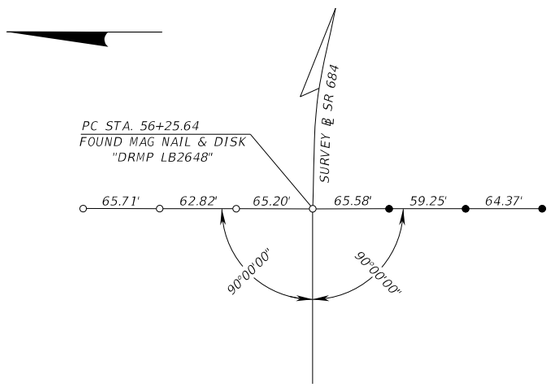
EQUATION STATION
PT STA. 129+58.33 BK =
PT STA. 129+56.87 AH
FOUND MAG NAIL & DISK "CARDNO LB6668"
SURVEY BASELINE SR 684 (CORTEZ ROAD)



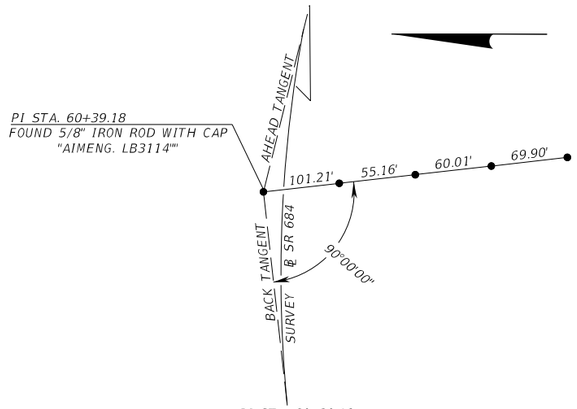
EQUATION STATION
POT STA. 131+00.00 BK =
POT STA. 42+34.64 AH
SET 5/8" IRON ROD & CAP "LB 7917"
SURVEY BASELINE SR 684 (CORTEZ ROAD)



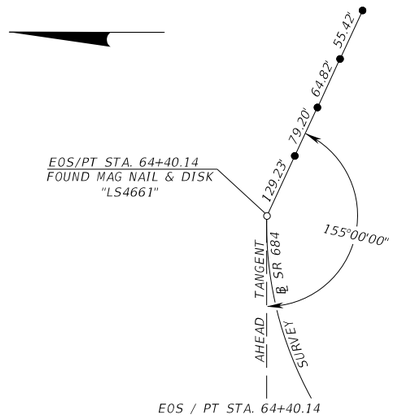
POT STA. 50+00.00
SET MAG NAIL & DISK "LB 7917"
SURVEY BASELINE SR 684 (CORTEZ ROAD)



PC STA. 56+25.64
FOUND MAG NAIL & DISK "DRMP LB2648"
SURVEY BASELINE SR 684 (CORTEZ ROAD)



PI STA. 60+39.18
FOUND 5/8" IRON ROD WITH CAP "AIMENG. LB3114""
SURVEY BASELINE SR 684 (CORTEZ ROAD)



EOS / PT STA. 64+40.14
FOUND MAG NAIL & DISK "LS4661"
SURVEY BASELINE SR 684 (CORTEZ ROAD)

● = SET ½" IRON ROD & CAP "LB 7917" (UNLESS OTHERWISE NOTED)

○ = SET MAG NAIL AND DISK "LB 7917" (UNLESS OTHERWISE NOTED)

SR 684
FROM: SR 789
TO: 123rd STREET WEST
F.P. ID: 430204-2
SURVEY PERFORMED BY: MCKIM & CREED, INC.
SURVEY DATE: JUNE 2018

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

PROJECT CONTROL

SHEET NO. 32

GJACKSON

5/22/2025 11:58:00 AM Default

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REVISIONS

DATE	DESCRIPTION

DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

PROJECT CONTROL

SHEET NO. 33

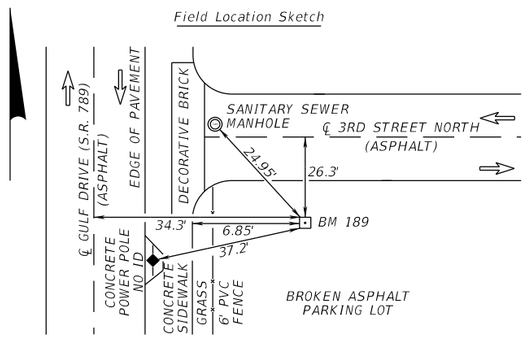
Florida Department of Transportation District Seven
Vertical Control Data Sheet

DATUM
NGVD 1929 ___
NAVD 1988 X

Monument Name or Designation: BM 189 Elevation Feet: 3.631'
State Road No.: S.R. 789 County: MANATEE
Section: 4 Township: 35 S Range: 16 E Roadway Section I.D.: 13040-000
Establishing Firm: MCKIM & CREED Field Book No.: 503549
Established: 11/30/2017 Recovered: Financial Project ID: 430204-2
State Plane Coordinates: (Nearest Foot) N (Y): = 1139656 E (X): = 429464
Base Line Station and Offset: ℄ STATION: 188+98 OFFSET: 34.5' RT
Description of Monument: SET STANDARD 4" X 4" FDOT CONCRETE MONUMENT WITH ALUMINUM DISK STAMPED "BM 189"

Distance and Direction from Nearest Intersection: 400' FEET SOUTH OF THE INTERSECTION OF S.R. 684 (CORTEZ ROAD) AND S.R. 789 (GULF DRIVE).

Field Location Sketch



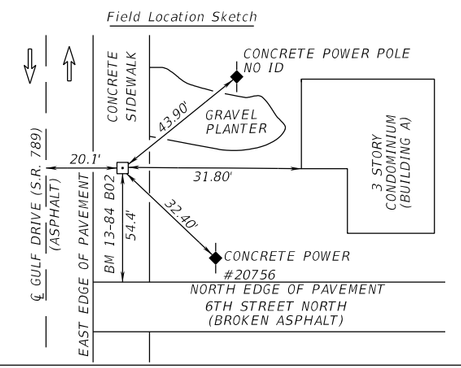
Florida Department of Transportation District Seven
Vertical Control Data Sheet

DATUM
NGVD 1929 ___
NAVD 1988 X

Monument Name or Designation: BM 13-84-B02 Elevation Feet: 4.116'
State Road No.: S.R. 789 County: MANATEE
Section: 4 Township: 35 S Range: 16 E Roadway Section I.D.: 13040-000
Establishing Firm: MCKIM & CREED Field Book No.: 503549
Established: 11/30/2017 Recovered: Financial Project ID: 430204-2
State Plane Coordinates: (Nearest Foot) N (Y): = 1140351 E (X): = 429234
Base Line Station and Offset: ℄ STATION: 196+30 OFFSET: 18.4' RT
Description of Monument: FOUND FDNR BRASS DISK SET IN CONCRETE SIDEWALK STAMPED "BM 13-84-B02"

Distance and Direction from Nearest Intersection: 324' FEET NORTH OF THE INTERSECTION OF S.R. 684 (CORTEZ ROAD) AND S.R. 789 (GULF DRIVE).

Field Location Sketch



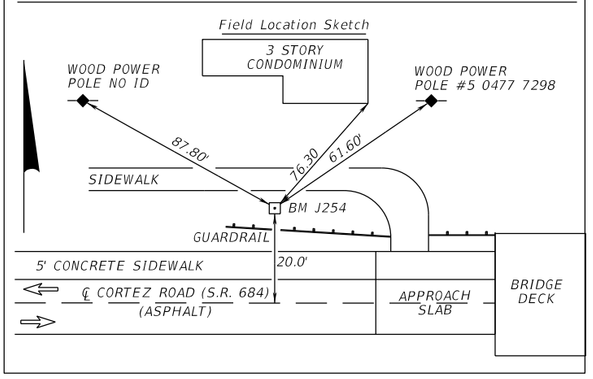
Florida Department of Transportation District Seven
Vertical Control Data Sheet

DATUM
NGVD 1929 ___
NAVD 1988 X

Monument Name or Designation: J 254 Elevation Feet: 13.480'
State Road No.: S.R. 684 County: MANATEE
Section: 3 Township: 35 S Range: 16 E Roadway Section I.D.: 13040-000
Establishing Firm: NGS Field Book No.: 503549
Established: Recovered: 11/30/2017 Financial Project ID: 430204-2
State Plane Coordinates: (Nearest Foot) N (Y): = 1140086 E (X): = 429916
Base Line Station and Offset: ℄ STATION: 99+73 OFFSET: 21.0' LT
Description of Monument: FOUND USCG & GS BRASS DISK SET IN WEST BRIDGE ABUTMENT STAMPED "J 254 1965"

Distance and Direction from Nearest Intersection: 608' FEET EAST OF THE INTERSECTION OF S.R. 684 (CORTEZ ROAD) AND S.R. 789 (GULF DRIVE).

Field Location Sketch



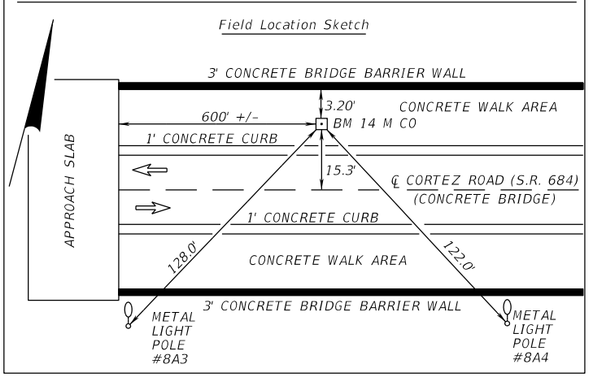
Florida Department of Transportation District Seven
Vertical Control Data Sheet

DATUM
NGVD 1929 ___
NAVD 1988 X

Monument Name or Designation: BM 14 MCO Elevation Feet: 15.303'
State Road No.: S.R. 684 County: MANATEE
Section: 3 Township: 35 S Range: 16 E Roadway Section I.D.: 13040-000
Establishing Firm: MCKIM & CREED Field Book No.: 503549
Established: 11/30/2017 Recovered: Financial Project ID: 430204-2
State Plane Coordinates: (Nearest Foot) N (Y): = 1140144 E (X): = 430514
Base Line Station and Offset: ℄ STATION: 105+74 OFFSET: 16.2' LT
Description of Monument: FOUND BRASS DISK SET IN BRIDGE DECK STAMPED "BM 14 MCO"

Distance and Direction from Nearest Intersection: 0.22 MILES EAST OF THE INTERSECTION OF S.R. 684 (CORTEZ ROAD) AND S.R. 789 (GULF DRIVE).

Field Location Sketch



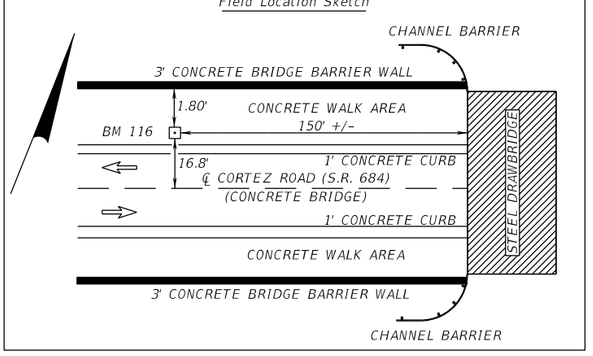
Florida Department of Transportation District Seven
Vertical Control Data Sheet

DATUM
NGVD 1929 ___
NAVD 1988 X

Monument Name or Designation: BM 116 Elevation Feet: 24.550'
State Road No.: S.R. 684 County: MANATEE
Section: 3 Township: 35 S Range: 16 E Roadway Section I.D.: 13040-000
Establishing Firm: MCKIM & CREED Field Book No.: 503549
Established: 11/30/2017 Recovered: Financial Project ID: 430204-2
State Plane Coordinates: (Nearest Foot) N (Y): = 1140250 E (X): = 431503
Base Line Station and Offset: ℄ STATION: 115+69 OFFSET: 17.1' LT
Description of Monument: SET 1½" ROUND BRASS DISK IN BRIDGE DECK STAMPED "BM 116"

Distance and Direction from Nearest Intersection: 0.41 MILES EAST OF THE INTERSECTION OF S.R. 684 (CORTEZ ROAD) AND S.R. 789 (GULF DRIVE).

Field Location Sketch



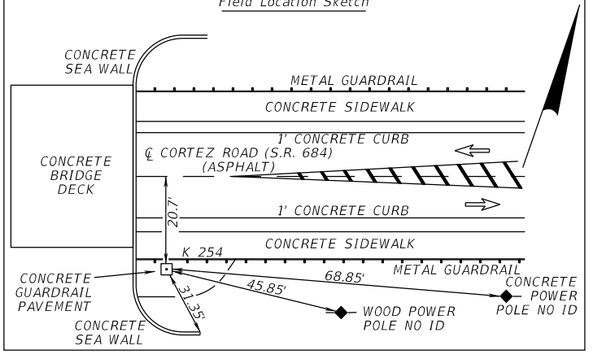
Florida Department of Transportation District Seven
Vertical Control Data Sheet

DATUM
NGVD 1929 ___
NAVD 1988 X

Monument Name or Designation: K 254 Elevation Feet: 13.900'
State Road No.: S.R. 684 County: MANATEE
Section: 3 Township: 35 S Range: 16 E Roadway Section I.D.: 13040-000
Establishing Firm: NGS Field Book No.: 503549
Established: Recovered: 11/30/2017 Financial Project ID: 430204-2
State Plane Coordinates: (Nearest Foot) N (Y): = 1140321 E (X): = 432524
Base Line Station and Offset: ℄ STATION: 125+91 OFFSET: 20.6' RT
Description of Monument: FOUND USCG & GS BRASS DISK SET IN WEST BRIDGE ABUTMENT STAMPED "K 254 1965"

Distance and Direction from Nearest Intersection: 0.61 MILES EAST OF THE INTERSECTION OF S.R. 684 (CORTEZ ROAD) AND S.R. 789 (GULF DRIVE).

Field Location Sketch



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GJACKSON

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

5/22/2025 11:58:02 AM Default

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

PROJECT CONTROL

SHEET NO. 34

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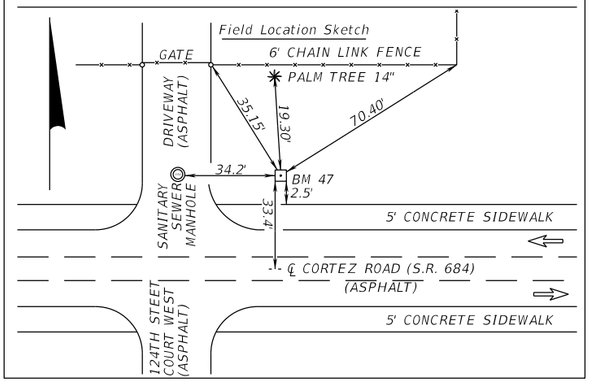
Florida Department of Transportation District Seven
Vertical Control Data Sheet

DATUM
NGVD 1929 ___
NAVD 1988 X

Monument Name or Designation: BM 47 Elevation Feet: 4.066'
State Road No.: S.R. 684 County: MANATEE
Section: 3 Township: 35 S Range: 16 E Roadway Section I.D.: 13040-000
Establishing Firm: MCKIM & CREED Field Book No.: 503549
Established: 11/30/2017 Recovered: Financial Project ID: 430204-2
State Plane Coordinates: (Nearest Foot) N (Y): = 1140390 E (X): = 433465
Base Line Station and Offset: ℄ STATION: 46+68 OFFSET: 33.4' LT
Description of Monument: SET STANDARD 4" X 4" FDOT CONCRETE MONUMENT WITH ALUMINUM DISK STAMPED "BM 47"

Distance and Direction from Nearest Intersection: 0.76 MILES EAST OF THE INTERSECTION OF S.R. 684 (CORTEZ ROAD) AND S.R. 789 (GULF DRIVE).

Field Location Sketch



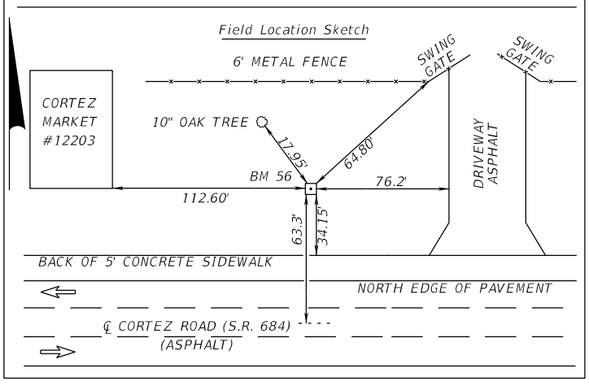
Florida Department of Transportation District Seven
Vertical Control Data Sheet

DATUM
NGVD 1929 ___
NAVD 1988 X

Monument Name or Designation: BM 56 Elevation Feet: 4.650'
State Road No.: S.R. 684 County: MANATEE
Section: 3 Township: 35 S Range: 16 E Roadway Section I.D.: 13040-000
Establishing Firm: MCKIM & CREED Field Book No.: 503549
Established: 11/30/2017 Recovered: Financial Project ID: 430204-2
State Plane Coordinates: (Nearest Foot) N (Y): = 1140407 E (X): = 434354
Base Line Station and Offset: ℄ STATION: 55+57 OFFSET: 64.1' LT
Description of Monument: SET STANDARD 4" X 4" FDOT CONCRETE MONUMENT WITH ALUMINUM DISK STAMPED "BM 56"

Distance and Direction from Nearest Intersection: 0.93 MILES EAST OF THE INTERSECTION OF S.R. 684 (CORTEZ ROAD) AND S.R. 789 (GULF DRIVE).

Field Location Sketch



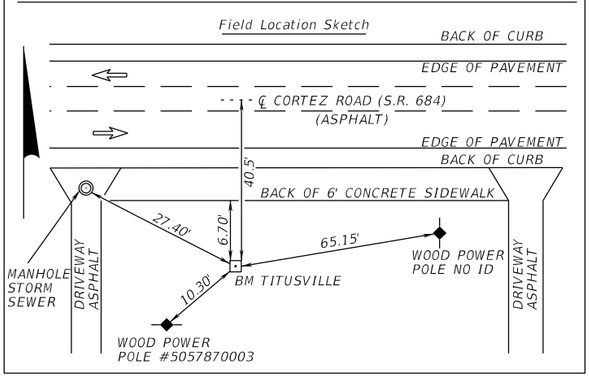
Florida Department of Transportation District Seven
Vertical Control Data Sheet

DATUM
NGVD 1929 ___
NAVD 1988 X

Monument Name or Designation: TITUSVILLE Elevation Feet: 2.800'
State Road No.: S.R. 684 County: MANATEE
Section: 3 Township: 35 S Range: 16 E Roadway Section I.D.: 13040-000
Establishing Firm: NGS Field Book No.: 503549
Established: Recovered: 11/30/2017 Financial Project ID: 430204-2
State Plane Coordinates: (Nearest Foot) N (Y): = 1140258 E (X): = 434813
Base Line Station and Offset: ℄ STATION: 60+28 OFFSET: 36.7' RT
Description of Monument: FOUND FLANGE ENCASED ROD AND ALUMINUM CAP WITH OUT FLANGE STAMPED "TITUSVILLE 2012"

Distance and Direction from Nearest Intersection: 1.01 MILES EAST OF THE INTERSECTION OF S.R. 684 (CORTEZ ROAD) AND S.R. 789 (GULF DRIVE).

Field Location Sketch



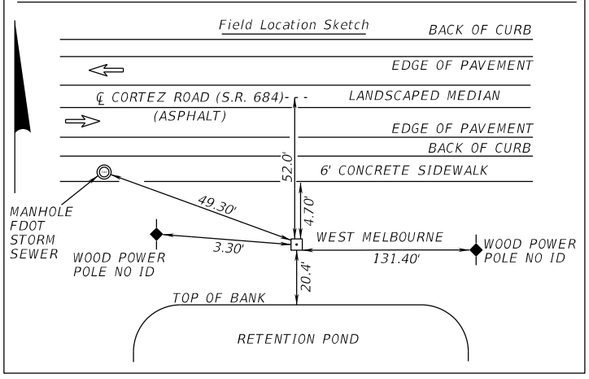
Florida Department of Transportation District Seven
Vertical Control Data Sheet

DATUM
NGVD 1929 ___
NAVD 1988 X

Monument Name or Designation: WEST MELBOURNE Elevation Feet: 4.300'
State Road No.: S.R. 684 County: MANATEE
Section: 3 Township: 35 S Range: 16 E Roadway Section I.D.: 13040-000
Establishing Firm: NGS Field Book No.: 503549
Established: Recovered: 11/30/2017 Financial Project ID: 430204-2
State Plane Coordinates: (Nearest Foot) N (Y): = 1139168 E (X): = 437185
Base Line Station and Offset: FALLS OUTSIDE PROJECT LIMITS
Description of Monument: FOUND FLANGE ENCASED ROD AND ALUMINUM CAP WITH OUT FLANGE STAMPED "NAVD 1988 WEST MELBOURNE 2012"

Distance and Direction from Nearest Intersection: 1.5 MILES EAST OF THE INTERSECTION OF S.R. 684 (CORTEZ ROAD) AND S.R. 789 (GULF DRIVE).

Field Location Sketch



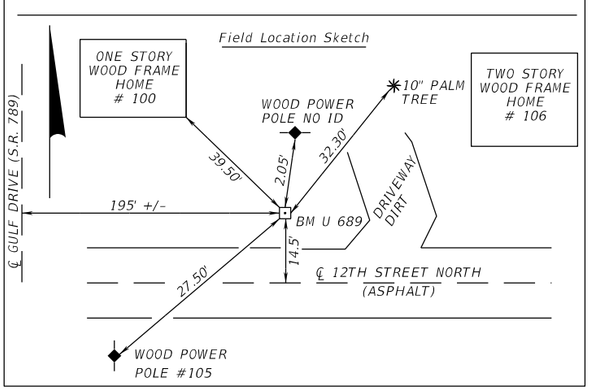
Florida Department of Transportation District Seven
Vertical Control Data Sheet

DATUM
NGVD 1929 ___
NAVD 1988 X

Monument Name or Designation: U 689 Elevation Feet: 3.110'
State Road No.: S.R. 789 County: MANATEE
Section: 4 Township: 35 S Range: 16 E Roadway Section I.D.: 13040-000
Establishing Firm: NGS Field Book No.: 503549
Established: Recovered: 11/30/2017 Financial Project ID: 430204-2
State Plane Coordinates: (Nearest Foot) N (Y): = 1141503 E (X): = 429067
Base Line Station and Offset: ℄ STATION: 207+81 OFFSET: 194.7' RT
Description of Monument: FOUND FLANGE ENCASED STEEL ROD STAMPED "NGS U 689 2008"

Distance and Direction from Nearest Intersection: 0.28 MILES NORTH OF THE INTERSECTION OF S.R. 684 (CORTEZ ROAD) AND S.R. 789 (GULF DRIVE).

Field Location Sketch



Florida Department of Transportation District Seven
Vertical Control Data Sheet

DATUM
NGVD 1929 ___
NAVD 1988 ___

Monument Name or Designation: Elevation Feet:
State Road No.: County:
Section: Township: S Range: E Roadway Section I.D.:
Establishing Firm: Field Book No.:
Established: Recovered: Financial Project ID:
State Plane Coordinates: (Nearest Foot) N (Y): = E (X): =
Base Line Station and Offset:
Description of Monument:

Distance and Direction from Nearest Intersection:

Field Location Sketch

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GENERAL NOTES

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

2. ALL R/W CONTROL POINTS ARE MEASURED FROM ℄ SURVEY SR 684 OR ℄ SURVEY SR 789. ALL PROPOSED FEATURES ARE MEASURED FROM ℄ CONST. SR 684, ℄ SURVEY/CONST. SR 789, OR ℄ CONST. OF SIDE STREET.

3. 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:

THOMAS M. HALSTEAD, P.S.M.
P.S.M. NO: 5770
MCKIM & CREED, INC.
5701 DIVISION DR, SUITE A
FORT MYERS, FL 33905
CERTIFICATE OF AUTHORIZATION: 7917

4. ANY PUBLIC LAND CORNER OR BENCHMARK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE ENGINEER WILL NOTIFY THE DISTRICT LOCATION SURVEYOR, DISTRICT I SURVEY DEPARTMENT.

5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR THE INSTALLATION AND OPERATION OF DEWATERING AND/OR GROUND WATER CONTROL SYSTEMS, INCLUDING BUT NOT LIMITED TO ACQUISTION OF A WATER USE PERMIT FROM THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT.

6. ALL EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS TO BE REMOVED UNLESS OTHERWISE NOTED IN THE PLANS.

7. NON-STANDARD ABBREVIATIONS ARE LISTED BELOW:

RT = RIGHT
LT = LEFT

8. ALL APPLICABLE TYPE F CURB & GUTTER WILL TERMINATE WITH A FLARED END AS SHOWN IN THE STANDARD PLANS INDEX 520-001, EXCEPT WHERE NOTED IN THE PLANS.

PAY ITEM NOTES

102-1 COST TO TEMPORARILY RELOCATE EXISTING TRAFFIC REGULATORY SIGNS IS INCLUDED WITH THE COST OF MAINTENANCE OF TRAFFIC.

120-1 AND 120-6 EARTHWORK HAS BEEN CALCULATED USING THE LIMEROCK BASE OPTION.

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

GENERAL NOTES

SHEET NO. 35

NOTES:
1. GUARDRAIL CONNECTIONS TO RIGID BARRIER DEVIATE FROM STANDARD PLANS INDEX 536-001. SIDEWALK AND MISCELLANEOUS ASPHALT TO TIE TO TOP OF ALIGNMENT CURB AT 2% CROSS SLOPE. SEE SIDEWALK PROFILE SHEETS FOR MORE INFORMATION.
2. RAMP AT THE BRADENTON BEACH POLICE DEPARTMENT TO REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION.
3. DUE TO AGGRESSIVE ENVIRONMENTAL PARAMETERS, CASING IS NOT TO BE USED AS A CARRIER. A CSIP (COST SAVINGS INITIATIVE PROPOSAL) ELIMINATING THE INTERIOR PIPE WILL NOT BE APPROVED. CASING WILL NOT EXTEND INTO PROPOSED STRUCTURES.

SEE SPECIAL DETAILS SHEET FOR MORE INFORMATION ON BICYCLE RAMP

CURVE DATA CL11
PI STA. = 205+42.13
Δ = 0° 58' 27" (LT)
D = 1° 00' 00"
T = 48.71
L = 97.42
R = 5,729.58
PC STA. = 204+93.42
PCC STA. = 205+90.84
e = N.C.

CURVE DATA C6
PI STA. = 96+85.64
Δ = 6° 22' 49" (LT)
D = 1° 00' 00"
T = 319.35
L = 638.04
R = 5,729.58
PC STA. = 93+66.29
PT STA. = 100+04.33

CURVE DATA CL12
PI STA. = 208+84.72
Δ = 13° 10' 08" (LT)
D = 2° 15' 02"
T = 293.88
L = 585.17
R = 2,546.00
PCC STA. = 205+90.84
PRC STA. = 211+76.02
e = N.C.

1" = 40'

END MILLING & RESURFACING
STA. 194+30.00 ℄ SURVEY/CONST. SR 789

BEGIN CONSTRUCTION
STA. 204+85.23
STA. 204+91.52 ℄ CONST. SR 684 =
STA. 93+64.39 ℄ SURVEY SR 684 =
STA. 193+06.71 ℄ SURVEY/CONST. SR 789

BEGIN PROJECT
BEGIN MILLING, RESURFACING & WIDENING
STA. 205+05.63 ℄ CONST. SR 684 =
STA. 93+78.50 ℄ SURVEY/CONST. SR 684

SR 789 (GULF DR)
N 16° 57' 06" W
S 89° 40' 37" E
N 17° 05' 00" W
PI STA. 192+67.44
POT STA. 204+50.00
PC STA. 93+66.29 ℄ SURVEY SR 684 =
PC STA. 204+93.42 ℄ CONST. SR 684
℄ CONST. SR 789
℄ SURVEY SR 684
℄ CONST. SR 684

TO REMAIN
7' OF 14"x23" PIPE

36' OF 14"x23" PIPE
107°15'38.07" T.C.

62' OF 14"x23" PIPE
PI STA. 205+42.13
CUR CL11

53' OF 24" PIPE W/ JACK & BORE
(SEE NOTE 3 ON THIS SHEET)

SAW CUT LINE
TYPE F C&G
PROP. NOISE WALL

17' OF 19"x30" PIPE

6' SIDEWALK

NOISE WALL
SEE STRUCTURES PLANS FOR DETAILS

TO REMAIN

EXIST. R/W

BEGIN MILLING & RESURFACING
STA. 192+11.65 ℄ SURVEY/CONST. SR 789

SEE INTERSECTION DETAIL SHEET FOR MORE INFORMATION

34' OF 24"x38" PIPE
10' SWK.
6' SWK.
EXIST. R/W
DIRECTIONAL INDICATOR
SIDEWALK BREAKLINE
SAW CUT LINE
TYPE F C&G
PCC STA. 205+90.84
PROP. NOISE WALL

BEGIN GUARDRAIL
W/ WOOD POSTS
CRT END TREATMENT
+38.68, 38.17' LT

BEGIN MSE WALL W/ HANDRAIL
+65.00, 43.50' LT

BEGIN GUARDRAIL
W/ WOOD POSTS
TL-2 PARALLEL TERMINAL
+32.57

MSE WALL
W/ HANDRAIL
END TYPE F C&G
BEGIN CONCRETE BARRIER
(SEE NOTE)
+10.00, 30.33' LT
END GUARDRAIL
W/ WOOD POSTS
TL-2 APPROACH TRANSITION
+10.61, 30.92' LT

146' OF 30" PIPE
69' OF 30" PIPE

BEGIN MSE WALL
W/ HANDRAIL
+85.00, 42.58' RT

SEE STRUCTURE PLANS FOR SMF 3-1 RETAINING WALL DETAILS

END GUARDRAIL
W/ WOOD POSTS
TL-2 TRAILING ANCHORAGE
+49.86, 28.31' RT

END MILLING, RESURFACING & WIDENING
BEGIN RECONSTRUCTION
STA. 207+50.00 ℄ CONST. SR 684

TO REMAIN
CONST. CONC. JACKET
4 OF 24"X38"
W/ CONC. JACKET

103' OF 24"x38" PIPE
8' OF 24"x38" PIPE

56' OF 18" PIPE
60' OF 18" PIPE
99' OF 18" PIPE
76' OF 18" PIPE
31' OF 18" PIPE
23' OF 18" PIPE
15' OF (2) 24" PIPE

END TYPE F C&G
BEGIN CONCRETE BARRIER
(SEE NOTE)
+58.58, 24.64' RT

END GUARDRAIL
W/ WOOD POSTS
TL-2 APPROACH TRANSITION
+59.19, 25.21' RT

BOLLARDS
@ 4' O.C.

MSE WALL

38" CONC TRAFFIC BARRIER

CONCRETE LANDING TO REMAIN

SMF3-1
(SEE POND DETAILS)

SMF3-2
(SEE POND DETAILS)

BEGIN GUARDRAIL
W/ WOOD POSTS
TL-2 PARALLEL TERMINAL
+97.43

BEGIN MSE WALL
W/ HANDRAIL
+77.80

END
MSE WALL
W/ HANDRAIL
+65.96

PI STA. 96+85.64
PI STA. 208+84.72
CUR C6
CUR CL12
A 11
12' D/W
EXIST. R/W

MATCHLINE STA. 210+20.00

LEGEND
MILLING & RESURFACING
DETECTABLE WARNING
OVERBUILD
WIDENING

WARNING: GAS MAIN IN AREA OF CONSTRUCTION

0 10 40
Feet

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REVISIONS			
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WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PLAN (1)
SR 684 (CORTEZ ROAD W)

SHEET NO. 36

CURVE DATA CL12
PI STA. = 208+84.72
Δ = 13° 10' 08" (LT)
D = 2° 15' 02"
T = 293.88
L = 585.17
R = 2,546.00
PCC STA. = 205+90.84
PRC STA. = 211+76.02
e = N.C.

NOTE: FOR MANATEE GRATES

CURVE DATA CL13
PI STA. = 214+34.79
Δ = 7° 45' 46" (RT)
D = 1° 30' 00"
T = 259.17
L = 517.56
R = 3,820.00
PRC STA. = 211+76.02
PT STA. = 216+93.57
e = N.C.

CURVE DATA C6
PI STA. = 96+85.64
Δ = 6° 22' 49" (LT)
D = 1° 00' 00"
T = 319.35
L = 638.04
R = 5,729.58
PC STA. = 93+66.29
PT STA. = 100+04.33

1" = 40'

+17.00
211.51' LT

ADD MES GRATE
TO EXIST. MES
INDEX NO. 430-990

+11.29
166.89' LT

PROPOSED PERPETUAL EASEMENT

END APPROACH SLAB
BEGIN BRIDGE #130168
STA. 211+03.50 ℄ CONST. SR 684

PROP. SOVEREIGN SUBMERGED LAND EASEMENT

+15.04
166.63' LT

TO REMAIN

+70.00
135.29' LT

TO REMAIN

+26.03
41.91' LT

EXIST. R/W

+17.11
43.18' LT

+15.23
100.00' LT

+09.98
84.90' LT

EXIST. EASEMENT

MSE WALL
+72.86
43.67' LT

+14.98
84.89' LT

+10.08
43.67' LT

50' R

+70.00
100.00' LT

+73.10
33.31' LT

0.02

0.02

24"X38" RCP

S3-10C

S3-10B

S3-10A

+10.85
33.63' LT

28' OF 24" PIPE

℄ CONST. SR 684

+73.24
22.00' LT

16' OF
18" PIPE

36' OF 18" PIPE

211

212

213

214

215

PRC STA. 211+76.02

PI STA. 214+34.79

MATCHLINE STA. 210+20.00

MATCHLINE STA. 215+60.00

SEE STRUCTURE PLANS
FOR OUTFALL DETAIL

CUR CL13

SR 684

CUR C6
17' OF
18" PIPE

CUR CL12

99

CS3-2

S3-9C

S3-9B

S3-9A

+73.89
33.25' RT

101

N 83° 56' 34" E

102

PT STA. 100+04.33

EXIST. SR 684 103

104

℄ SURVEY SR 684

26' OF
18" PIPE

MSE WALL
+10.66
33.62' RT

S3-8

+73.76
22.00' RT

END MSE WALL
W/ HANDRAIL
+81.80

SMF3-2
(SEE POND DETAILS)

CONST. MISC. ASPHALT PAVT.
UNDER BRIDGE (TYP.)

10'

0.02

0.02

0.02

SEA WALL

BEGIN APPROACH SLAB
STA. 210+73.50 ℄ CONST. SR 684

+37.58
69.48' RT

+85.35
99.68' RT

MATCH
EXIST.

+95.31
101.98' RT

2% R

+98.75
98.68' RT

+78.82
74.01' RT

+52.16
109.86' RT

EXIST. R/W

10' SWK.

+97.68
87.87' RT

+97.93
100.00' RT

EXIST. EASEMENT

0 10 40
Feet

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4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PLAN (2)
SR 684 (CORTEZ ROAD W)

SHEET NO. 37

CURVE DATA CL13
PI STA. = 214+34.79
Δ = 7° 45' 46" (RT)
D = 1° 30' 00"
T = 259.17
L = 517.56
R = 3,820.00
PRC STA. = 211+76.02
PT STA. = 216+93.57
e = N.C.

1" = 40'

PROP. SOVEREIGN SUBMERGED LAND EASEMENT

EXIST. EASEMENT

℄ CONST. SR 684

CUR CL13

PT STA. 216+93.57

MATCHLINE STA. 215+60.00

MATCHLINE STA. 221+00.00

216 217 218 219 220

N 83° 56' 34" E

SR 684

105 106 107 108 109

N 83° 56' 34" E

EXIST. SR 684

℄ SURVEY SR 684

0 10 40
Feet

EXIST. EASEMENT

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

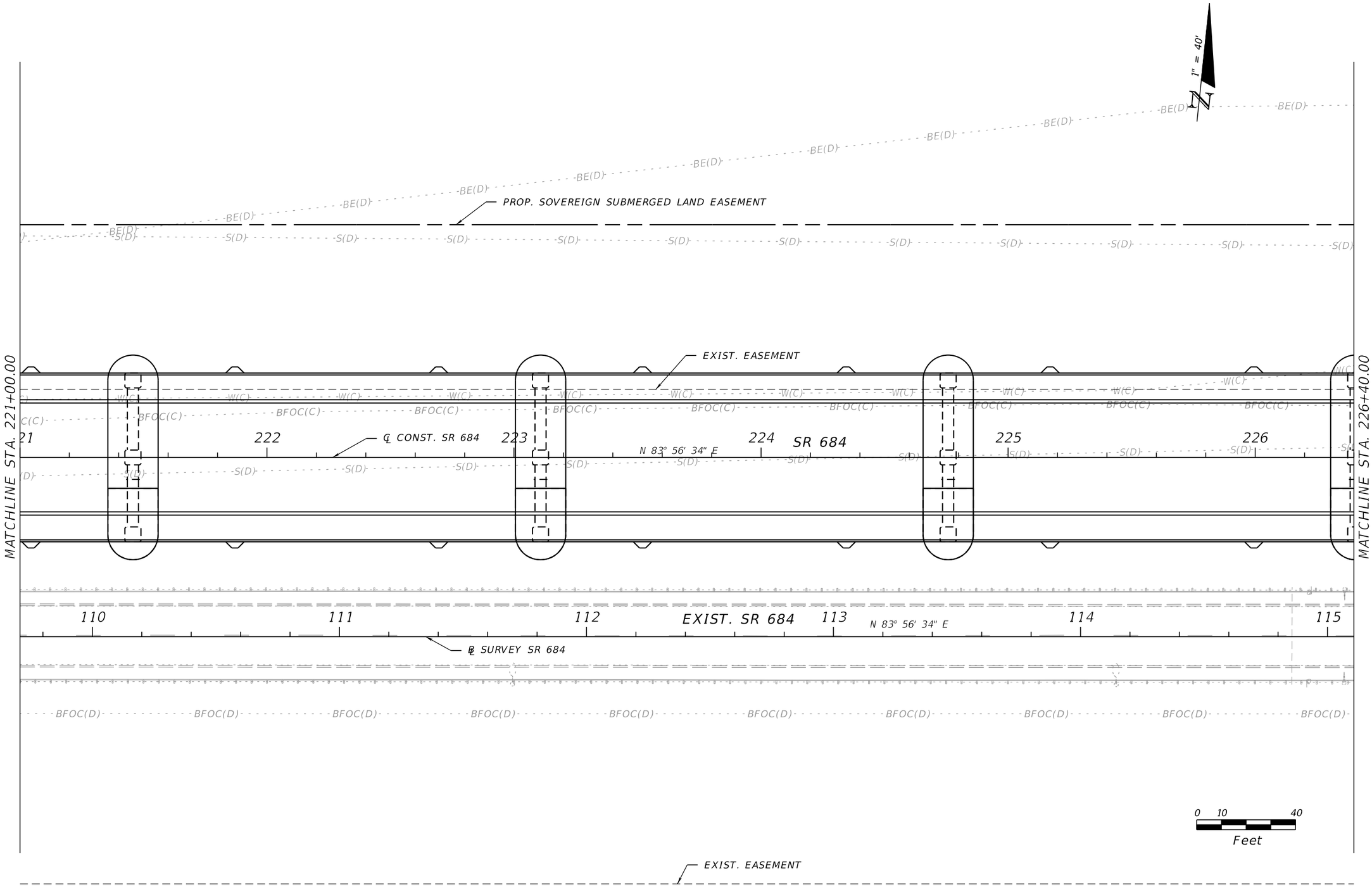
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PLAN (3)
SR 684 (CORTEZ ROAD W)

SHEET NO. 38



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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H. W. LOCHNER, INC.
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PLAN (4)
SR 684 (CORTEZ ROAD W)

SHEET NO. 39

CURVE DATA CL14
PI STA. = 233+77.63
Δ = 6° 57' 22" (RT)
D = 1° 01' 50"
T = 337.93
L = 675.02
R = 5,560.00
PC STA. = 230+39.71
PT STA. = 237+14.73
e = N.C.

1" = 40'

PROP. SOVEREIGN SUBMERGED LAND EASEMENT

+69.00 186.63' LT

+69.00 166.63' LT

PROP. SOVEREIGN SUBMERGED LAND EASEMENT

+44.00 186.63' LT

+44.00 166.63' LT

PROP. SOVEREIGN SUBMERGED LAND EASEMENT

BRIDGE FENDER

BRIDGE FENDER

EXIST. EASEMENT

MATCHLINE STA. 226+40.00

MATCHLINE STA. 231+80.00

227 228 229 230 231

℄ CONST. SR 684

N 83° 56' 34" E

SR 684

PC STA 230+39.71

CUR CL14

116 117 118 119 120

℄ SURVEY SR 684

N 83° 56' 34" E

EXIST. SR 684

0 10 40
Feet

EXIST. EASEMENT

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

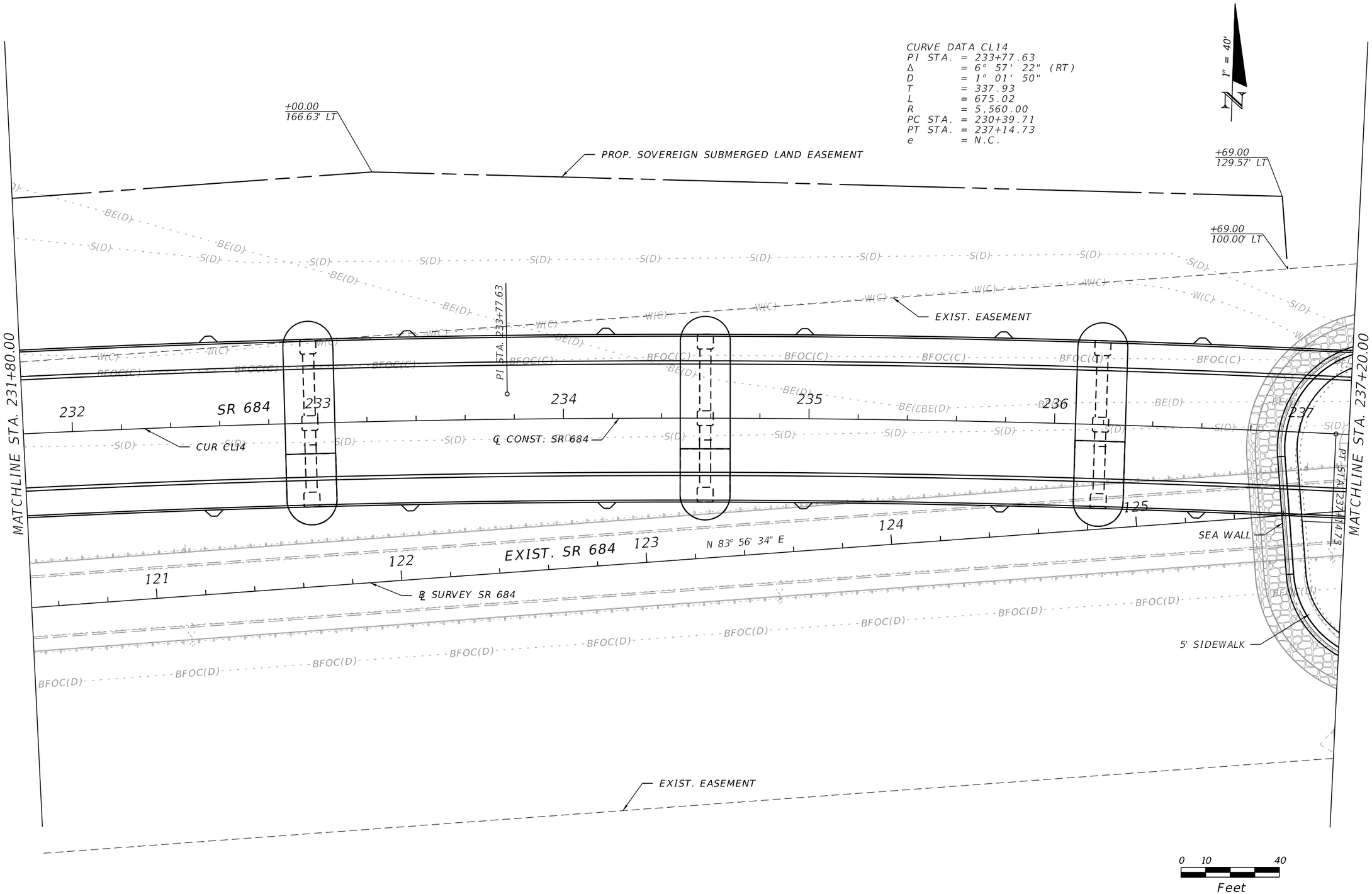
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PLAN (5)
SR 684 (CORTEZ ROAD W)

SHEET NO. 40



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PLAN (6)
SR 684 (CORTEZ ROAD W)

SHEET NO. 41

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

NOTE:
1. GUARDRAIL CONNECTIONS TO RIGID BARRIER DEVIATE FROM STANDARD PLANS INDEX 536-001. SIDEWALK AND MISCELLANEOUS ASPHALT TO TIE TO TOP OF ALIGNMENT CURB AT 2% CROSS SLOPE. SEE SIDEWALK PROFILE SHEETS FOR MORE INFORMATION.

MATCHLINE STA. 237+20.00

MATCHLINE STA. 242+55.00

℄ CONST. 127TH ST. W.

EXIST. R/W

5' SIDEWALK

114' OF 14"x23" PIPE

127th ST W

N 17° 49' 53" W

+01.66
11.29' RT

+88.88
12.44' RT

PI STA. 41+58.15

ALUMINUM PIPE HANDRAIL
FOR BOS INLET
INDEX 515-070

STA. 239+84.67 ℄ CONST. SR 684 =
STA. 40+95.34 ℄ CONST. 127TH ST. W.

PT STA. 42+07.51

END RECONSTRUCTION
MATCH EXISTING
+01.66

+01.66
16.00' LT

CONST. MISC.
ASPHALT PAVT.
UNDER BRIDGE

CUR CL127STW2

+75.71
16.00' LT

+03.74
78.00' LT

+33.08
70.21' LT

+58.95
23.09' RT

+85.13
25.05' RT

+63.54
28.45' RT

+62.97
27.77' RT

+87.16
57.22' LT

+43.47
16.00' RT

MATCH EXIST.
+55.10, 24.95' LT

END TYPE F C&G
+49.70, 16.00' LT

END GUARDRAIL
TL-2 PARALLEL TERMINAL
+13.81, 19.08' LT

+76.89
100.00' LT

EXIST. EASEMENT

+76.89
77.00' LT

SEA WALL

BEGIN TAPER
STA. 237+80.12

+79.88
22.00' LT

PC STA. 41+08.79

234' R

+26.75
39.01' LT

+08.79
16.00' LT

PI STA. 128+42.40

+08.79
16.00' RT

+34.00
27.54' LT

℄ CONST. SR 684

S 89° 06' 04" E

238

239

240

241

242

128

129

130

131

41

N 4° 47' 39" E

PC STA. 127+26.46

CUR C7

127

N 83° 56' 34" E

PT STA. 40+59.33

℄ SURVEY SR 684

126

+33.97
27.54' RT

97°6'30.76" T.C.

93°53'43.43"

+66.33
16.00' LT

+86.45
36.72' LT

BEGIN TYPE F C&G
+84.44, 26.83' LT

BEGIN GUARDRAIL
TL-2 TRAILING ANCHORAGE
+90.91, 27.66' LT

+18.39
19.95' LT

+20.87
19.45' LT

17.5' R

16' R

44' R

6'

SOD

8'

6'

CR-G

25' R

PI STA. 50+41.58

PT STA. 51+87.36

EXIST. R/W

+83.84
46.58' RT

+81.12
50.00' RT

10' SIDEWALK

RETAINING WALL W/
PED/BICYCLE RAILING

96' OF 18" PIPE

STA. 131+00.00 BK ℄ SURVEY SR 684=
STA. 42+34.64 AH ℄ SURVEY SR 684

STA. 129+58.33 BK ℄ SURVEY SR 684=
STA. 129+56.87 AH ℄ SURVEY SR 684

CUR BOSTIETO127ST2

8' SIDEWALK

℄ CONST. 8' SIDEWALK

CUR BOSTIETO127ST1

PCC STA. 50+83.17

50

51

52

POT STA. 39+80.00

40

N 71° 39' 43" E

+79.88
22.00' RT

STA. 128+51.23 ℄ SURVEY SR 684 =
STA. 40+92.33 ℄ CONST. 127TH ST. W.

SEA WALL

BEGIN CONSTRUCTION
STA. 39+84.44 ℄ CONST. 127TH ST. W.=
STA 239+23.67, 74.37' RT. ℄ CONST. SR 684

5' SIDEWALK

EXIST.
EASEMENT

EXIST.
R/W

769' R

+86.53
132.14' RT

BEGIN RECONSTRUCTION
MATCH EXISTING
+18.39

+18.39
19.60' RT

+25.11
19.60' RT

CUR CL127STW1

PC STA. 40+26.65

+36.73
26.75' RT

SEE SPECIAL DETAILS SHEET
FOR MORE INFORMATION ON 8' SIDEWALK

SMF 4B
(SEE POND DETAILS)

1" = 40'

+65.69 R 2
98.41' LT

PROP. R/W

END BRIDGE #130168
BEGIN APPROACH SLAB
STA. 240+34.00 ℄ CONST. SR 684

END APPROACH SLAB
STA. 240+64.00 ℄ CONST. SR 684

+29.27
48.30' LT

PROP.
R/W

+62.16
41.80' LT

+63.11
45.64' LT

+63.09
41.93' LT

+66.15
98.50' LT

+81.10
50.00' LT

+00.00
37.50' LT

+85.98
50.00' LT

EXIST. R/W

17' OF
18" PIPE

205' OF 24" PIPE

MSE WALL
W/ HANDRAIL

+75.00
34.58' LT

BEGIN GUARDRAIL
W/ WOOD POSTS
TL-2 APPROACH TRANSITION
+99.40, 24.50' LT

S 89° 06' 04" E

+95.43
34.58' LT

+95.00
24.33' LT

37' OF 18" PIPE

BEGIN TYPE F C&G
END CONCRETE BARRIER
(SEE NOTE)
+00.00, 24.33' LT
+55.00, 24.33' RT

SR 684
PI STA. 51+35.26

MSE WALL W/ HANDRAIL

+55.15
35.58' RT

17' OF
18" PIPE

17' OF
18" PIPE

17' OF
18" PIPE

S4-5A

S4-5B

S4-5C

S4-6A

S4-6B

S4-6C

S2-11

10.3'

10.4'

6.6'

6.4'

11.6'

11.1'

7.1'

+29+58.33 PT STA.

S

LEGEND

DETECTABLE WARNING

CURVE DATA C7
PI STA. = 128+42.40
Δ = 6° 57' 22" (RT)
D = 3° 00' 00"
T = 116.08
L = 231.87
R = 1,909.86
PC STA. = 127+26.46
PT STA. = 129+56.87

CURVE DATA CL127STW1
PI STA. = 40+42.99
Δ = 66° 52' 04" (LT)
D = 204° 37' 40"
T = 18.49
L = 32.68
R = 28.00
PC STA. = 40+26.65
PT STA. = 40+59.33
e = N.C.

CURVE DATA CL127STW2
PI STA. = 41+58.15
Δ = 22° 37' 32" (LT)
D = 22° 55' 06"
T = 50.01
L = 98.72
R = 250.00
PC STA. = 41+08.79
PT STA. = 42+07.51
e = N.C.

CURVE DATA BOSTIETO127ST1
PI STA. = 50+41.58
Δ = 6° 11' 19" (RT)
D = 7° 26' 28"
T = 41.62
L = 83.17
R = 770.00
PC STA. = 50+00.00
PCC STA. = 50+83.17

CURVE DATA BOSTIETO127ST2
PI STA. = 51+35.26
Δ = 6° 49' 20" (RT)
D = 6° 32' 53"
T = 52.16
L = 104.19
R = 875.00
PCC STA. = 50+83.17
PT STA. = 51+87.36

0 10 40
Feet

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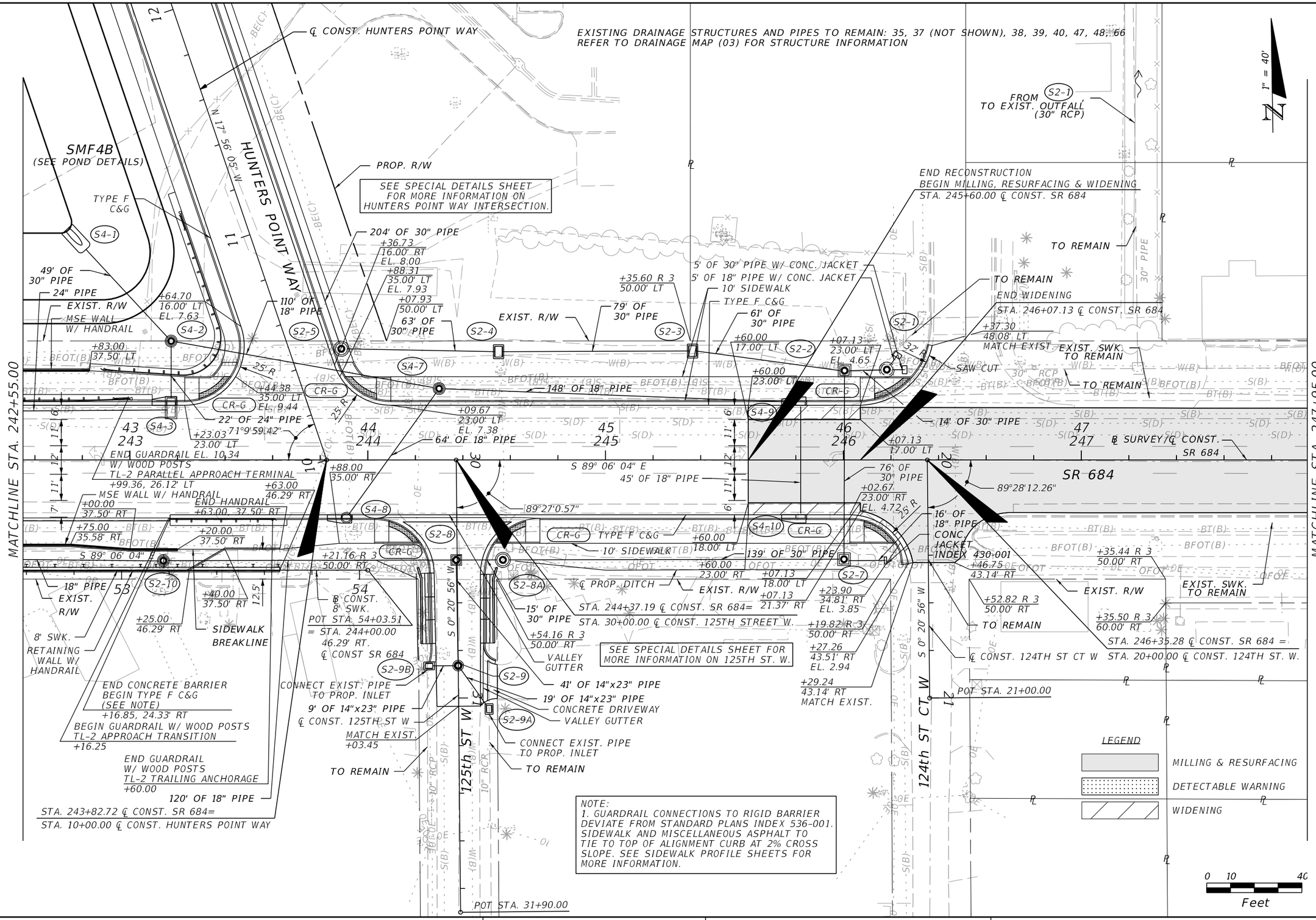
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PLAN (7)
SR 684 (CORTEZ ROAD W)

SHEET NO. 42



REVISIONS			
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PLAN (8)
SR 684 (CORTEZ ROAD W)

SHEET NO. 43

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EXISTING DRAINAGE STRUCTURES AND PIPES TO REMAIN: 45, 46, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62
REFER TO DRAINAGE MAP (03) FOR STRUCTURE INFORMATION

1" = 40'

END BRICK PAVT. REMOVAL AND FULL-DEPTH ASPHALT PAVT. RECONSTRUCTION STA. 249+15.00 ℄ CONST. SR 684

END BRICK PAVT. REMOVAL AND FULL-DEPTH ASPHALT PAVT. RECONSTRUCTION STA. 250+02.00 ℄ CONST. SR 684

END PROJECT END MILLING & RESURFACING END CONSTRUCTION STA. 250+80.00 ℄ CONST. SR 684

MATCHLINE STA. 247+95.00

EXIST. R/W

EXIST. SWK. TO REMAIN

PEDESTRIAN REFUGE AREA SEE SPECIAL DETAILS

SAWCUT

+15.00 17.41' LT

+97.30 0.38' RT EL. 5.42

+80.01 22.13' LT

+86.06 R 3 50.00' LT

+36.06 R 3 50.00' LT

123rd ST W

48 248

49 249

50 250

51 251

52 252

53 253

℄ SURVEY/℄ CONST. SR 684

S 89° 06' 04" E

+21.76 6.00' LT

+72.85 6.00' LT

50' R

3' R

S0D

SAWCUT

+25.41 42.18' RT

+57.33 42.18' RT

+20.30 0.38' LT EL. 5.35

50' R

+44.74 6.00' RT

TYPE E C&G

+95.83 6.00' RT

3' R

+45.19 46.55' RT

SR 684

+80.01 22.07' RT

+22.65 46.61' RT

SAWCUT

+15.00 18.36' RT

SAWCUT

+51.07 R 3 50.00' RT

EXIST. R/W

EXIST. SWK. TO REMAIN

+16.31' R 3 50.00' RT

+49.31 R 3 50.00' RT

EXIST. SWK. TO REMAIN

EXIST. R/W

+14.56 R 3 50.00' RT

+47.56 R 3 50.00' RT

EXIST. R/W

+18.12 R 3 60.00' RT

124th ST W

123rd ST CT W

123rd ST W

LEGEND

MILLING & RESURFACING

DETECTABLE WARNING

0 10 40

Feet

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PLAN (9)
SR 684 (CORTEZ ROAD W)

SHEET NO. 44

EXISTING DRAINAGE STRUCTURES AND PIPES TO REMAIN: 27, 28 REFER TO DRAINAGE MAP (03) FOR STRUCTURE INFORMATION

CURVE DATA CL124CTW1
PI STA. = 14+55.34
Δ = 103° 36' 59" (LT)
D = 40° 55' 32"
T = 177.96
L = 253.18
R = 140.00
PC STA. = 12+77.38
PT STA. = 15+30.56
e = N.C.

1" = 40'
0 10 40
Feet

LEGEND
DETECTABLE WARNING

END CONSTRUCTION
STA. 44+22.92 ℄ CONST. 127TH ST. W.
STA. 43+40.57 ℄ CONST. 127TH STREET W. =
STA. 17+14.67 ℄ CONST HUNTERS POINT WAY

+22.92 18.75' RT
+22.57 13.77' RT
+01.87 12.10' RT
EL. 6.440
POT STA. 44+25.00
+94.87 12.15' RT
+91.87 12.15' RT
EL. 5.991
128+15.39 330.02' LT
128+23.47 333.21' LT
128+59.26 316.26' LT
16+12.00 40.00' RT
15+88.00 40.00' RT
16+18.11 24.00' RT
EL. 3.714
15+81.89 24.00' RT
EL. 3.822
+35.36 369.39' LT
PROP. R/W
6' SIDEWALK
TYPE F C&G
S4-12
CR-G
CR-C
CR-B
S4-13
S4-14
S5-1
S5-2
S5-3
S5-4
S4-11
S4-10
S4-9
S4-8
S4-7
S4-6
S4-5A
S4-5B
S4-5C
S4-4
S4-3
S4-2
S4-1
S2-6
S2-5
S2-4
CS-4B
+01.99 20.12' RT
+66.41 16.00' RT
EL. 3.668
+53.58
12' D/W
A 1
PT STA. 15+30.56
10' R
22' R
24' R
VALLEY GUTTER
15+64.00 16.00' RT
+53.73 39.26' LT
+52.42 51.24' LT
+34.00 33.65' LT
79' OF 18" PIPE
℄ CONST. HUNTERS POINT WAY
CUR CL124CTW1
+31.03 R 3 275.44' LT
PC STA. 12+77.38
16+36.00 16.00' RT
S 58° 26' 57" W
126' OF 18" PIPE
76°16'49.46"
+87.32 16.00' LT
EL. 3.600
+42.15 280.14' LT
37' OF 18" PIPE
℄ PROP. DITCH
25' R
N 17° 49' 53" W
15" RCP
12" RCP
53' OF 14"x23" PIPE
MATCH EXIST. PAVT.
+07.43 11.29' RT
EL. 3.332
+33.01 210.64' LT
+34.95 202.33' LT
47' OF 14"x23" PIPE
PROP. R/W
END CONSTRUCTION
STA. 17+02.63 ℄ CONST. HUNTERS POINT WAY
+43.81 214.72' LT
END 5' SIDEWALK
+07.43, 14.29' RT
+42.87 201.46' LT
+47.34 184.15' LT
+40.66 178.30' LT
5' SIDEWALK
℄ CONST. 127th ST. W
EXIST. R/W
14"x23" PIPE
MATCH EXIST.
+01.66
PI STA. 41+58.15
BOS INLET HANDRAIL
+85.13 25.05' RT
MATCH. EXIST.
DWY. BREAKLINE
+63.54 28.45' RT
MATCH EXIST.
+61.24 25.73' RT
+58.95 23.09' RT
18" D/W +83.67
6" CONCRETE INCLUDING THE SWK.
EXIST. R/W
PT STA. 42+07.51
BEGIN 5' SIDEWALK
+87.72, 16.21' RT
DWY. BREAKLINE
PC STA. 41+08.79
127th ST W
N 17° 49' 53" W
CORTEZ SURF & PADDLE
+65.69 R 2 98.41' LT
SMF4B
(SEE POND DETAILS)
72' OF 24"x38" PIPE
EXIST. ABANDONED WELL
PLUG & ABANDONED
9/13/2021
BEGIN CONSTRUCTION
STA. 10+24.30 ℄ CONST. HUNTERS POINT WAY
N 17° 56' 05" W
HUNTERS POINT WAY
PROP. R/W
204' OF 30" PIPE
+07.92 R 3 50.00' LT
18" PIPE
30" PIPE
24" PIPE
EXIST. R/W
24" PIPE
18" PIPE
30" PIPE
30" PIPE
18" PIPE
S(A) S(B) W(B) BFOT(B) BT(B) OE

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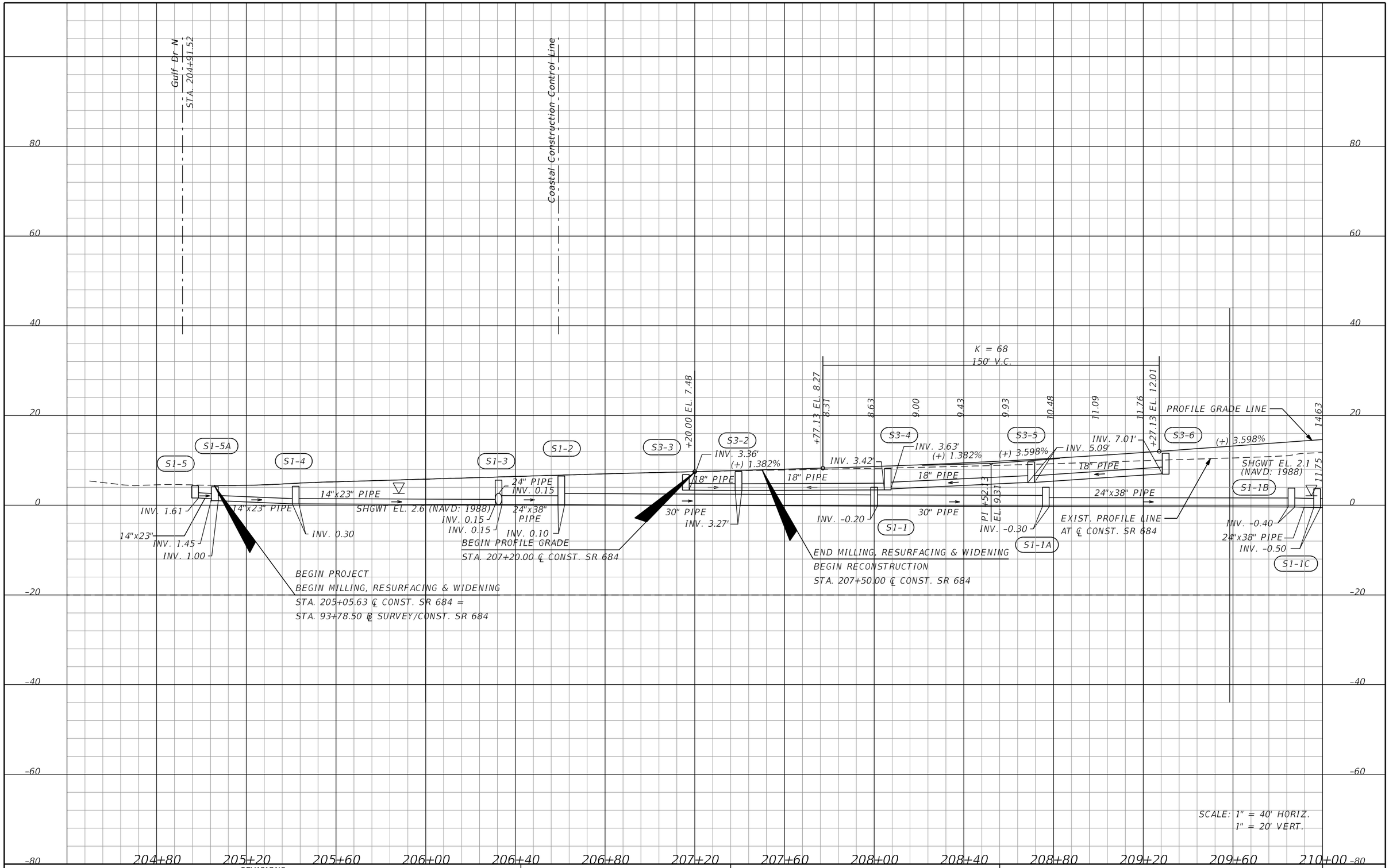
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PLAN (10)
HUNTERS POINT WAY

SHEET NO. 45



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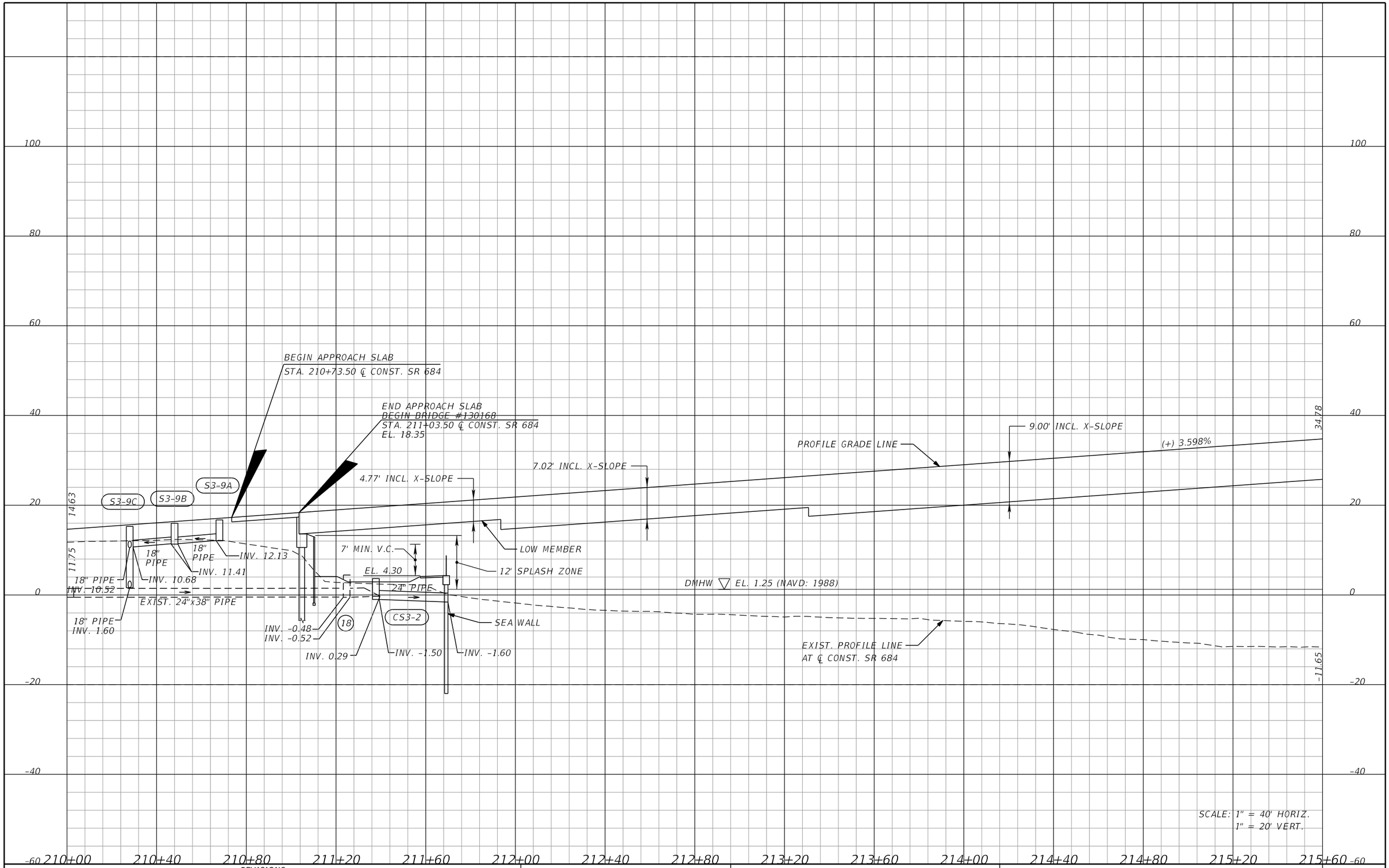
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PROFILE
SR 684 (CORTEZ ROAD W)

SHEET NO. 46



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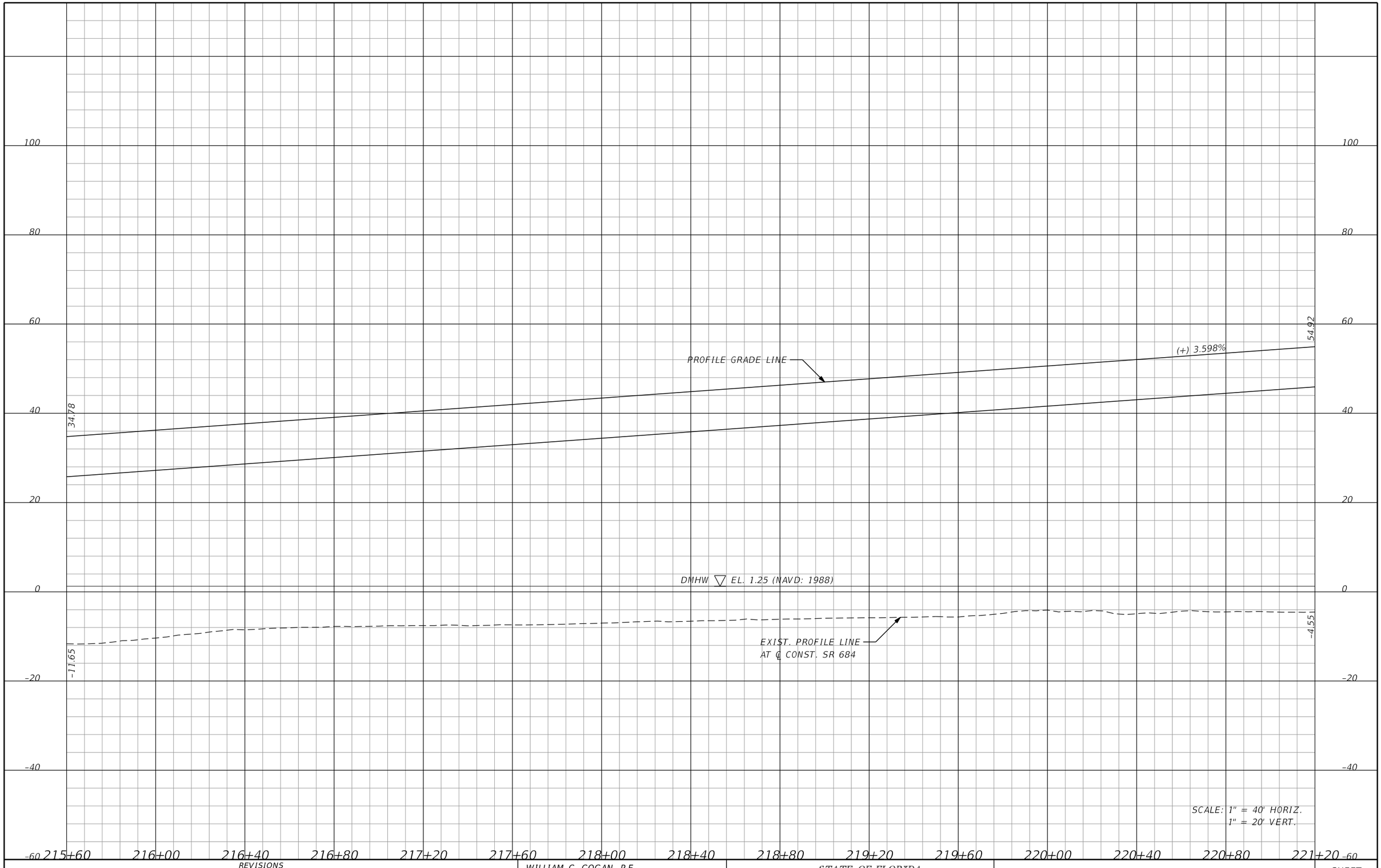
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PROFILE
SR 684 (CORTEZ ROAD W)

SHEET NO. 47



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REVISIONS			
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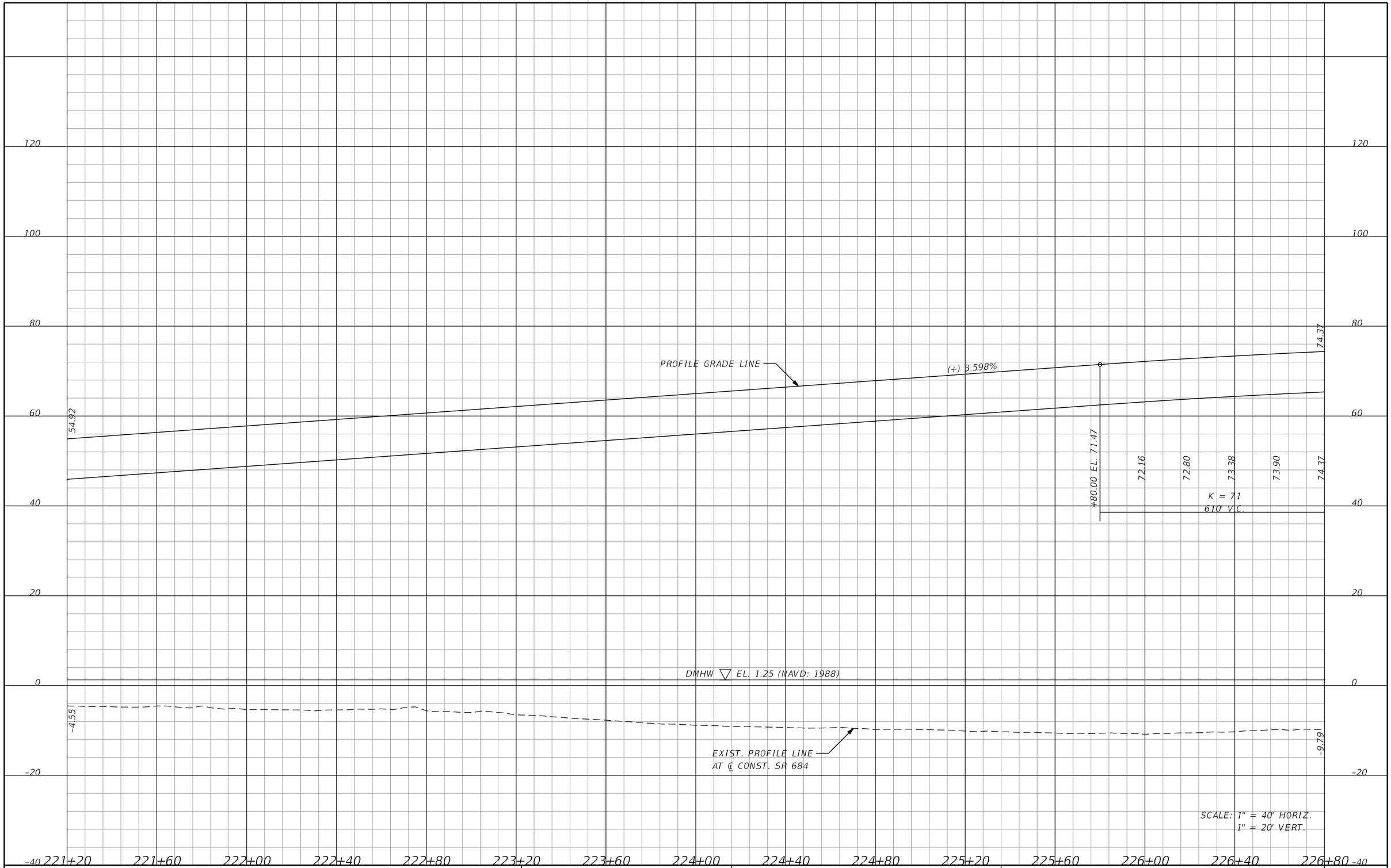
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PROFILE
SR 684 (CORTEZ ROAD W)

SHEET NO. 48



REVISIONS			
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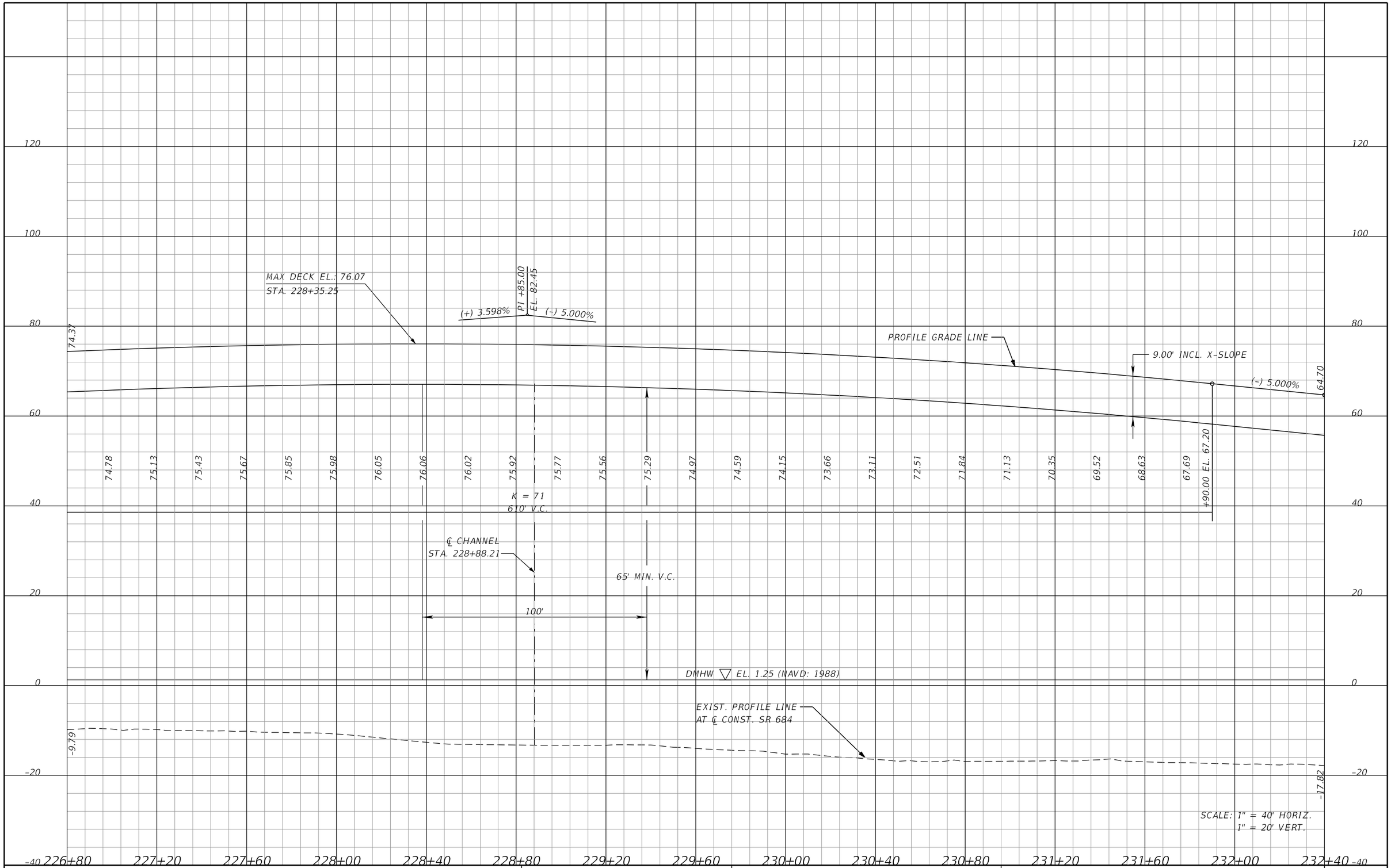
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PROFILE
SR 684 (CORTEZ ROAD W)

SHEET NO. 49

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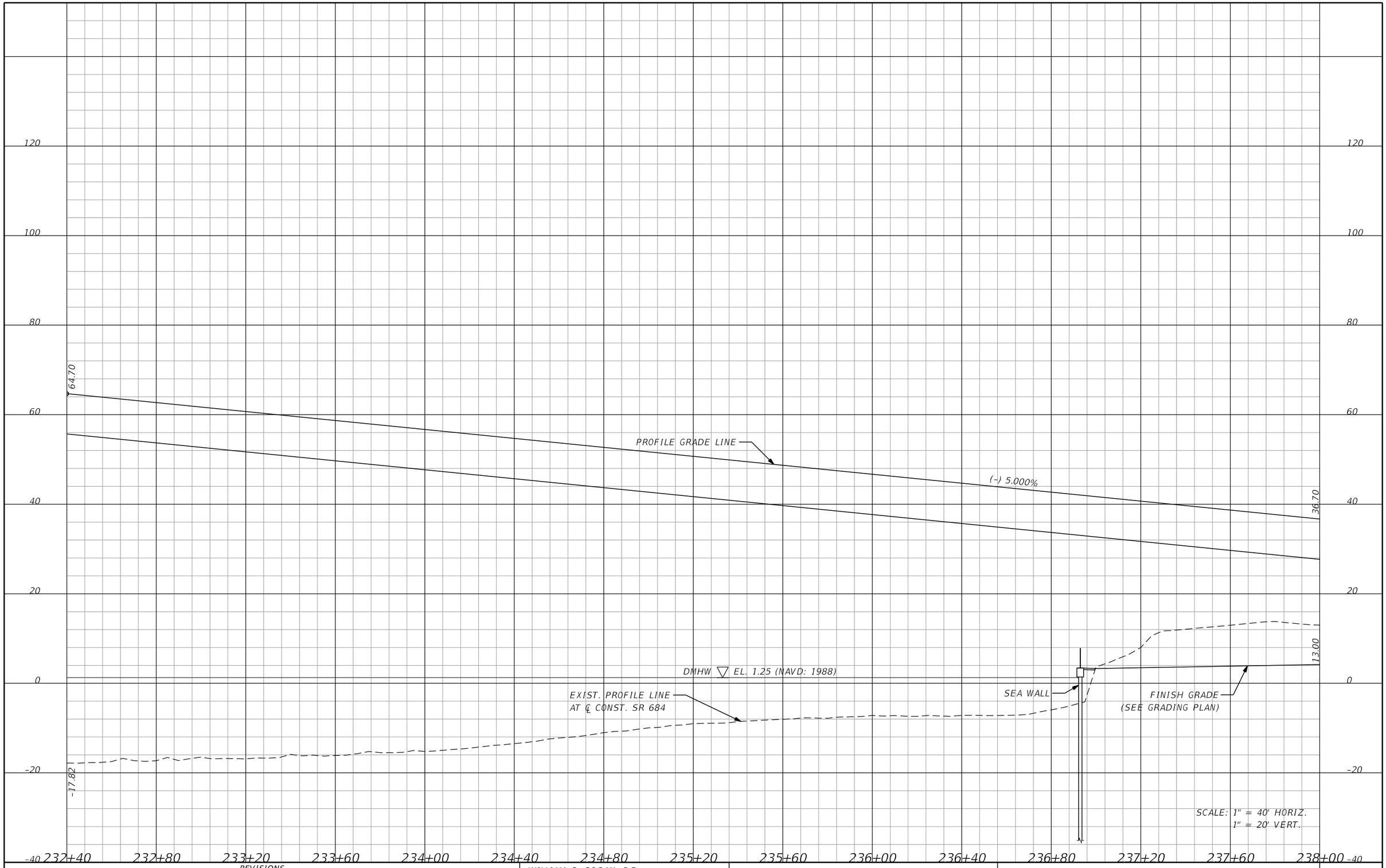
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PROFILE
SR 684 (CORTEZ ROAD W)

SHEET NO. 50

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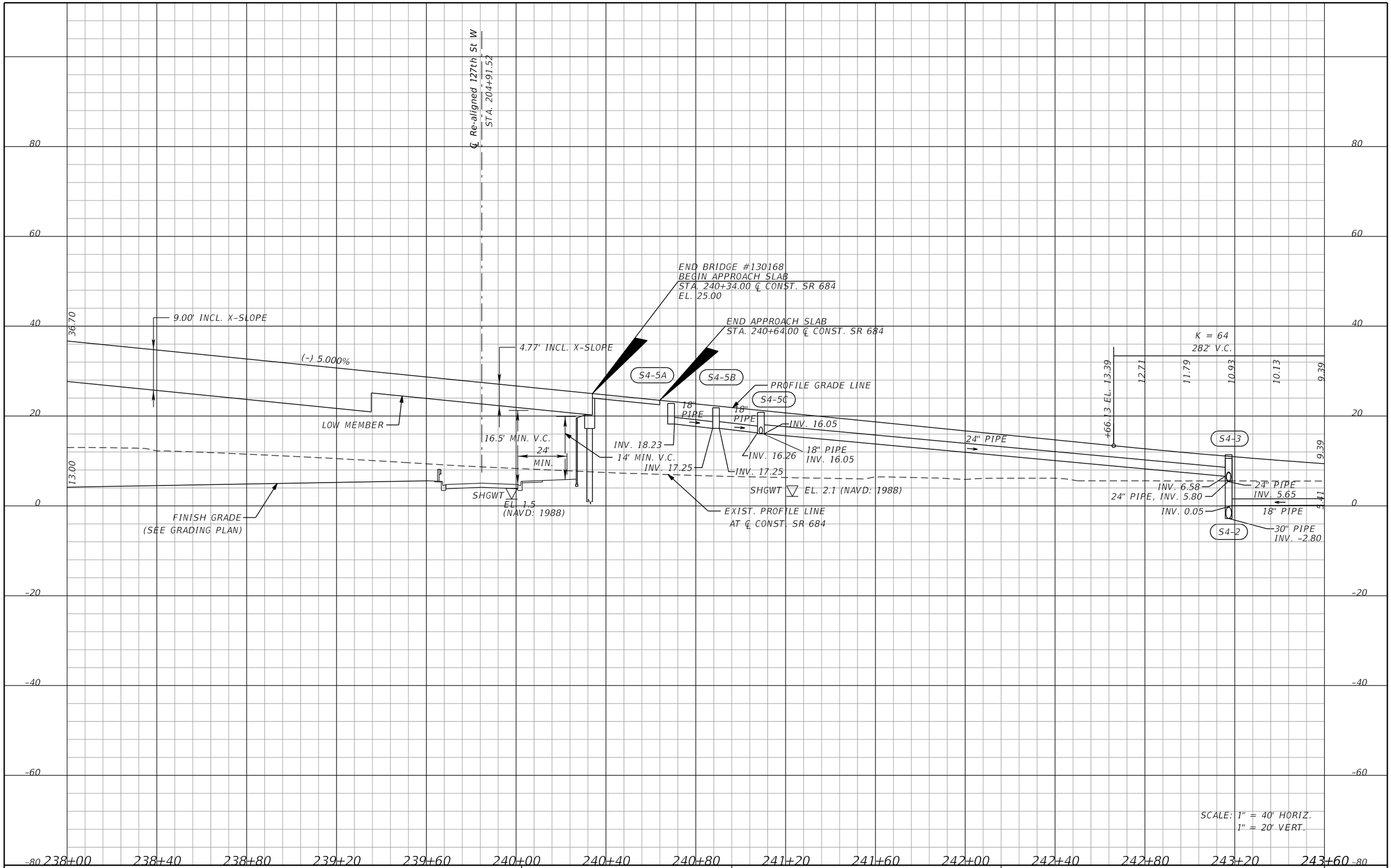
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PROFILE
SR 684 (CORTEZ ROAD W)

SHEET NO. 51

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PROFILE
SR 684 (CORTEZ ROAD W)

SHEET NO. 52

℄ HUNTERS POINT WAY
STA. 243+82.72

℄ 125th St W
STA. 244+37.19

℄ 124th St Ct W
STA. 246+35.28

℄ 124th St W
STA. 248+41.37

K = 64
282' V.C.

8.72 8.11 7.56 7.08 6.66 6.30 6.00 5.77 5.60 5.55

+48.13 EL.

END RECONSTRUCTION
BEGIN MILLING, RESURFACING & WIDENING
STA. 245+60.00 ℄ CONST. SR 684

END PROFILE GRADE
END WIDENING
STA. 246+07.13 ℄ CONST. SR 684

BEGIN BRICK PAVT. REMOVAL
AND FULL-DEPTH ASPHALT
PAVT. RECONSTRUCTION
STA. 249+15.00 ℄ CONST. SR 684

S4-7
18" PIPE
INV. 2.85
PROFILE GRADE LINE
9.39
(–) 5.000%
(–) 0.560%
INV. 0.25
18" PIPE
3.41
18" PIPE
PI +07.13
EL. 6.34
SHGWT EL. 1.3
(NAVD: 1988)
EXIST. PROFILE LINE
AT ℄ CONST. SR 684

S2-2
5.22
30" PIPE
S2-1
(–) 0.560%
S4-9
INV. 0.50
18" PIPE
INV. 0.50
INV. –0.23
INV. –0.69
30" PIPE
INV. 0.09
INV. –0.66
30" PIPE FROM S2-3

67
EXIST. 30" PIPE
EXIST 30" PIPE
INV. –0.35
INV. –0.29

SHGWT
EL. 1.3
(NAVD: 1988)
5.34

80 60 40 20 0 –20 –40 –60 –80

243+60 244+00 244+40 244+80 245+20 245+60 246+00 246+40 246+80 247+20 247+60 248+00 248+40 248+80 249+20

SCALE: 1" = 40' HORIZ.
1" = 20' VERT.

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PROFILE
SR 684 (CORTEZ ROAD W)

SHEET NO. 53

℄ 123rd St Ct W
STA. 250+34.00

END BRICK PAVT. REMOVAL
AND FULL-DEPTH ASPHALT
PAVT RECONSTRUCTION
STA. 250+02.00 ℄ CONST. SR 684

END PROJECT
END MILLING & RESURFACING
END CONSTRUCTION
STA. 250+80.00 ℄ CONST. SR 684

5.34

80 60 40 20 0 -20 -40 -60 -80

249+20 249+60 249+80 250+00 250+20 250+40 250+60 250+80 251+00 251+20 251+40 251+60 251+80

SCALE: 1" = 40' HORIZ.
1" = 20' VERT.

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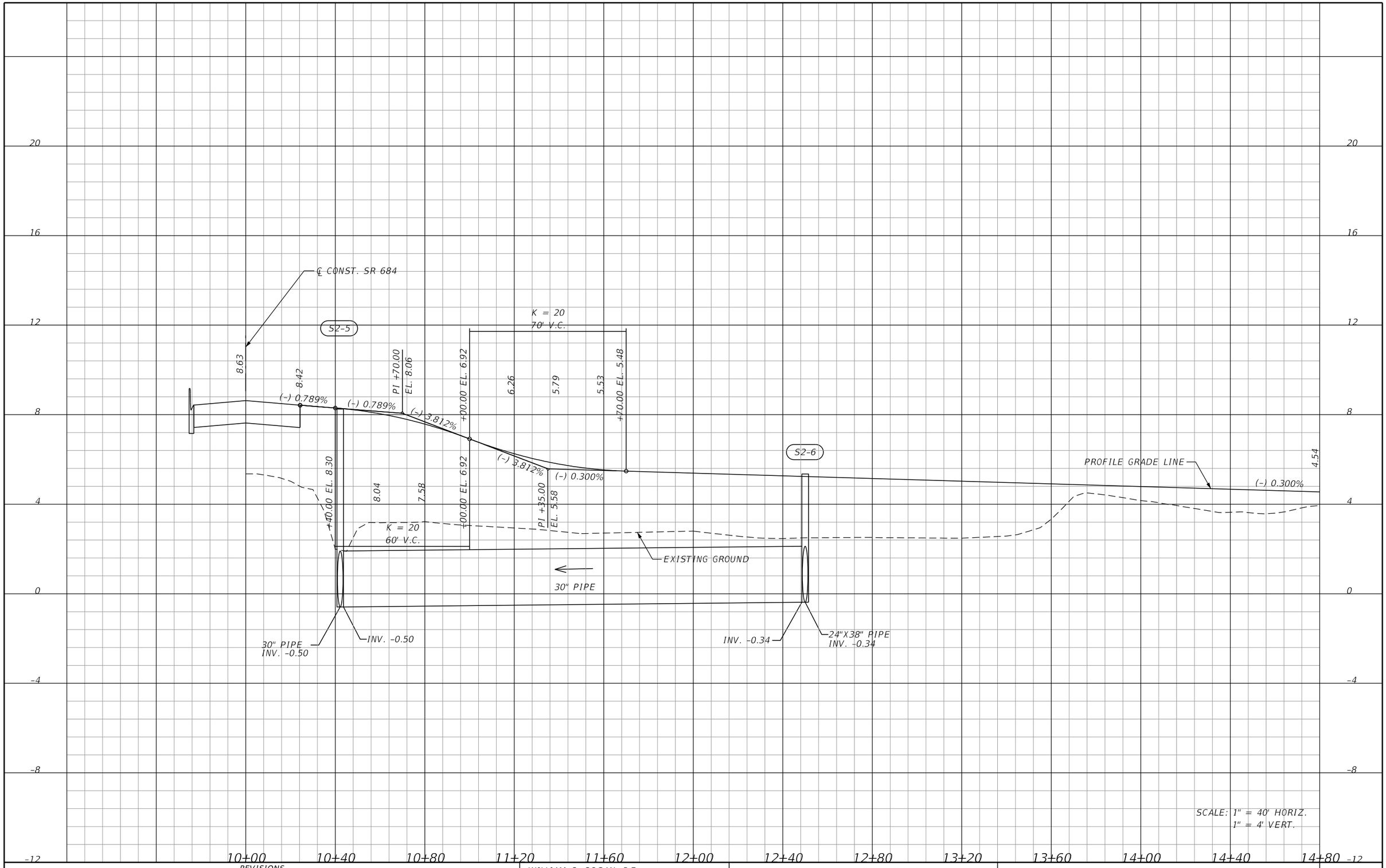
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PROFILE
SR 684 (CORTEZ ROAD W)

SHEET NO. 54



REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

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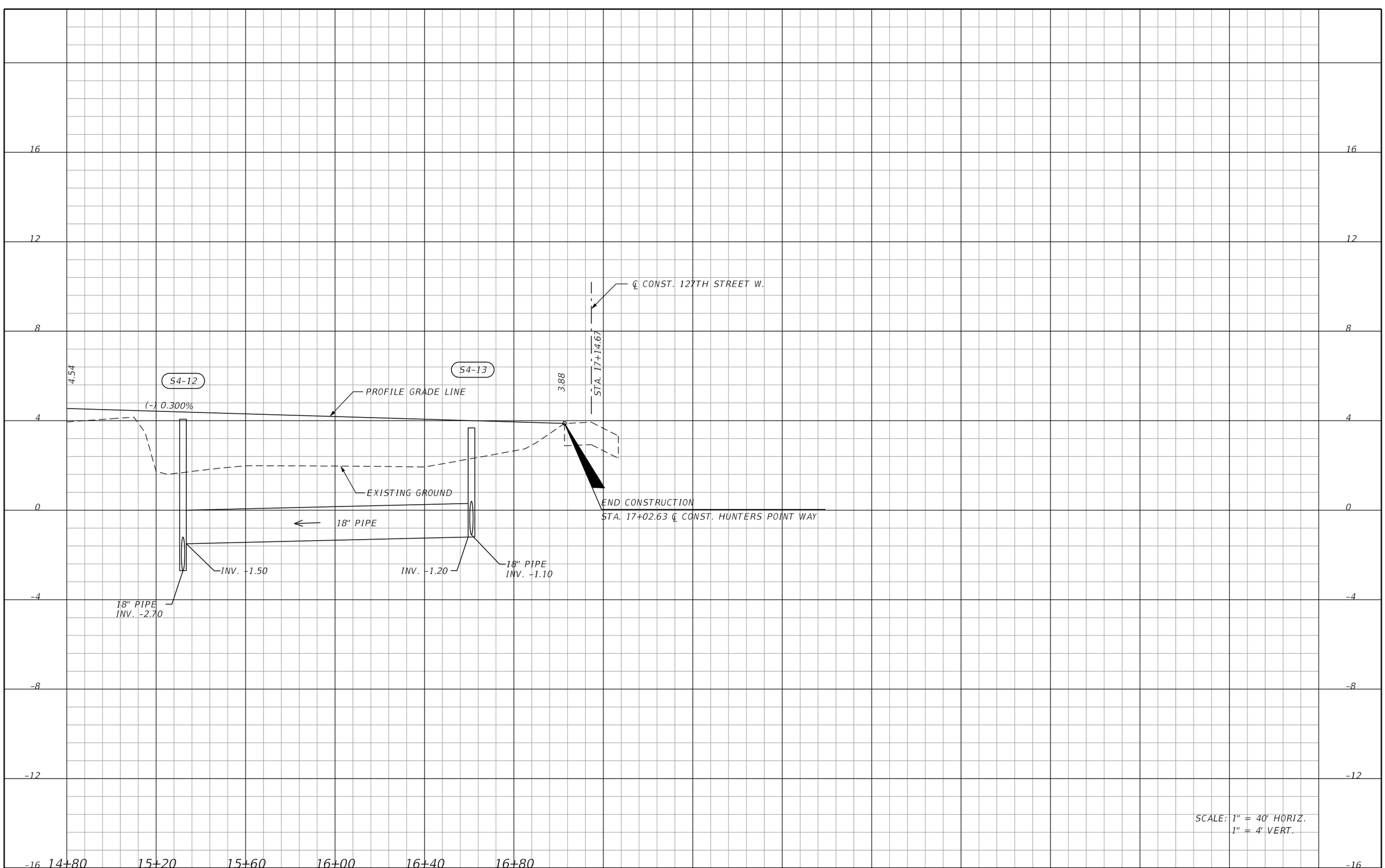
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PROFILE
HUNTERS POINT WAY

SHEET NO. 55

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4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

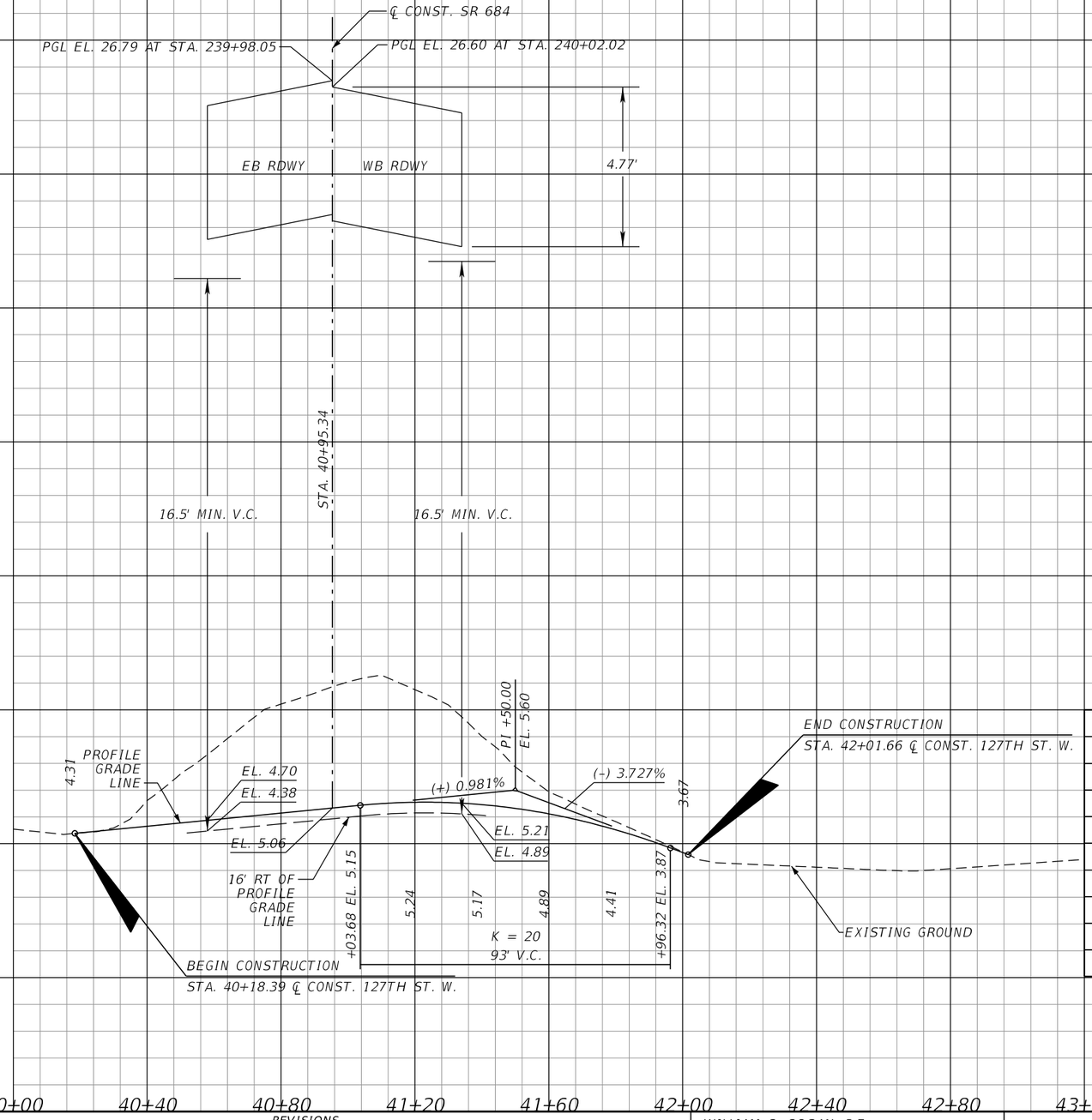
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PROFILE
HUNTERS POINT WAY

SHEET NO. 56

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



LEFT EOP SUPERELEVATION		RIGHT EOP SUPERELEVATION	
STATION	**PAVT. X-SLOPE**	**STATION**	**PAVT. X-SLOPE**
40+18.39	Tie To Exist. Ground	40+18.39	Tie To Exist. Ground
40+35.77	0.043	40+35.77	Tie To Exist. Ground
40+56.85	0.020	40+56.85	-0.020
41+20.00	0.020	41+88.88	-0.020
41+49.70	-0.020	42+01.66	Tie To Exist. Ground
41+64.86	-0.020		
41+75.71	-0.011		
42+01.66	Tie To Exist. Ground		

SCALE: 1" = 40' HORIZ.
1" = 4' VERT.

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

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

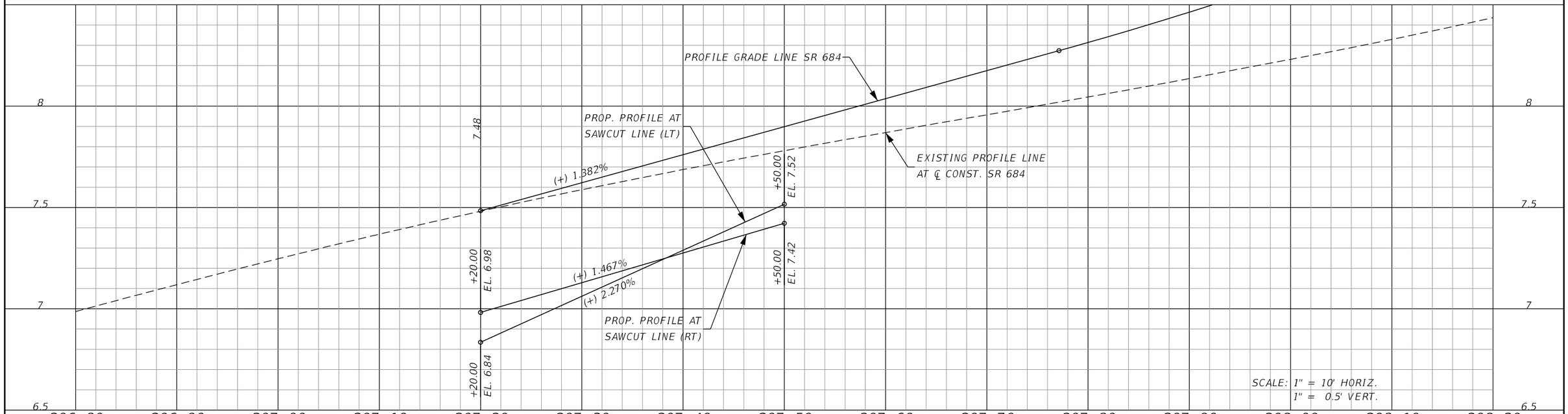
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

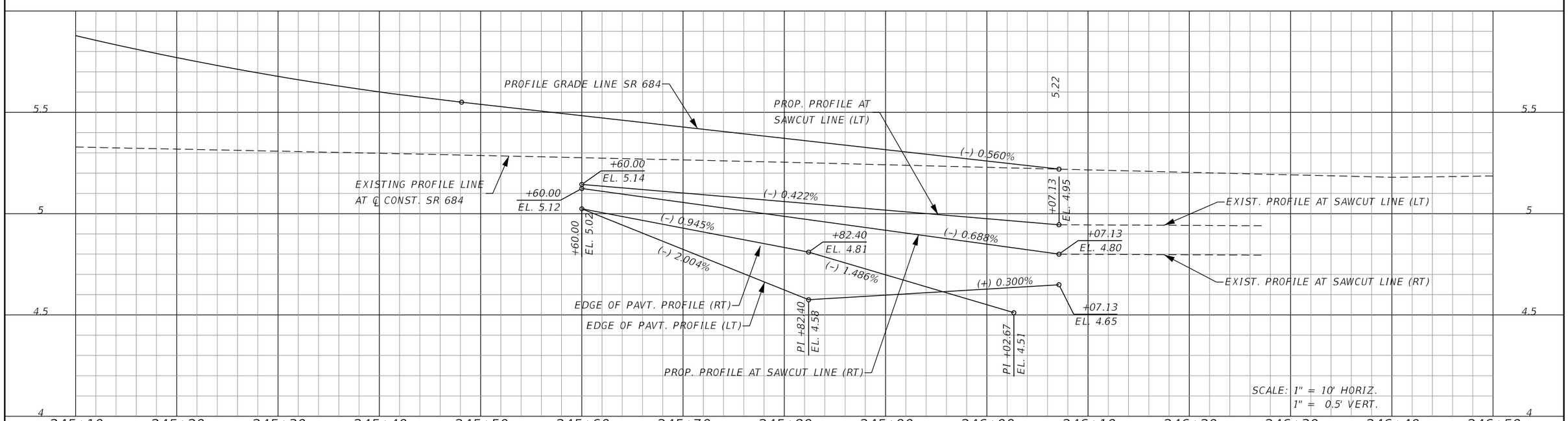
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY PROFILE
127TH ST W

SHEET NO. 57





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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

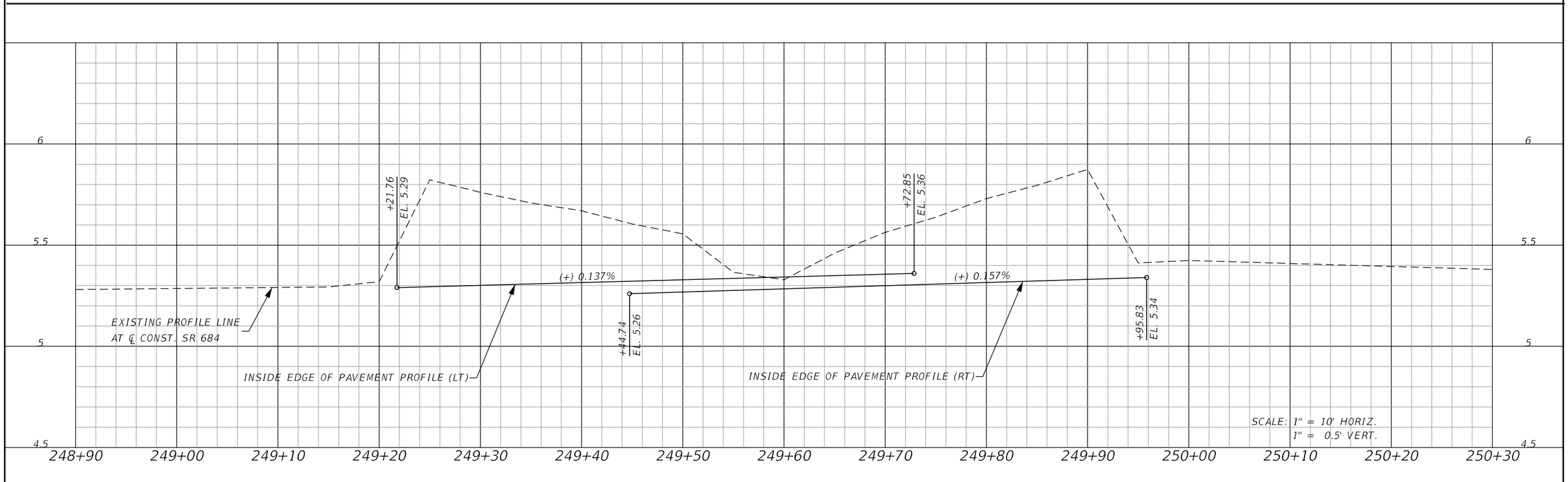
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SPECIAL PROFILES
SR 684 (CORTEZ ROAD W)

SHEET NO. 58



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

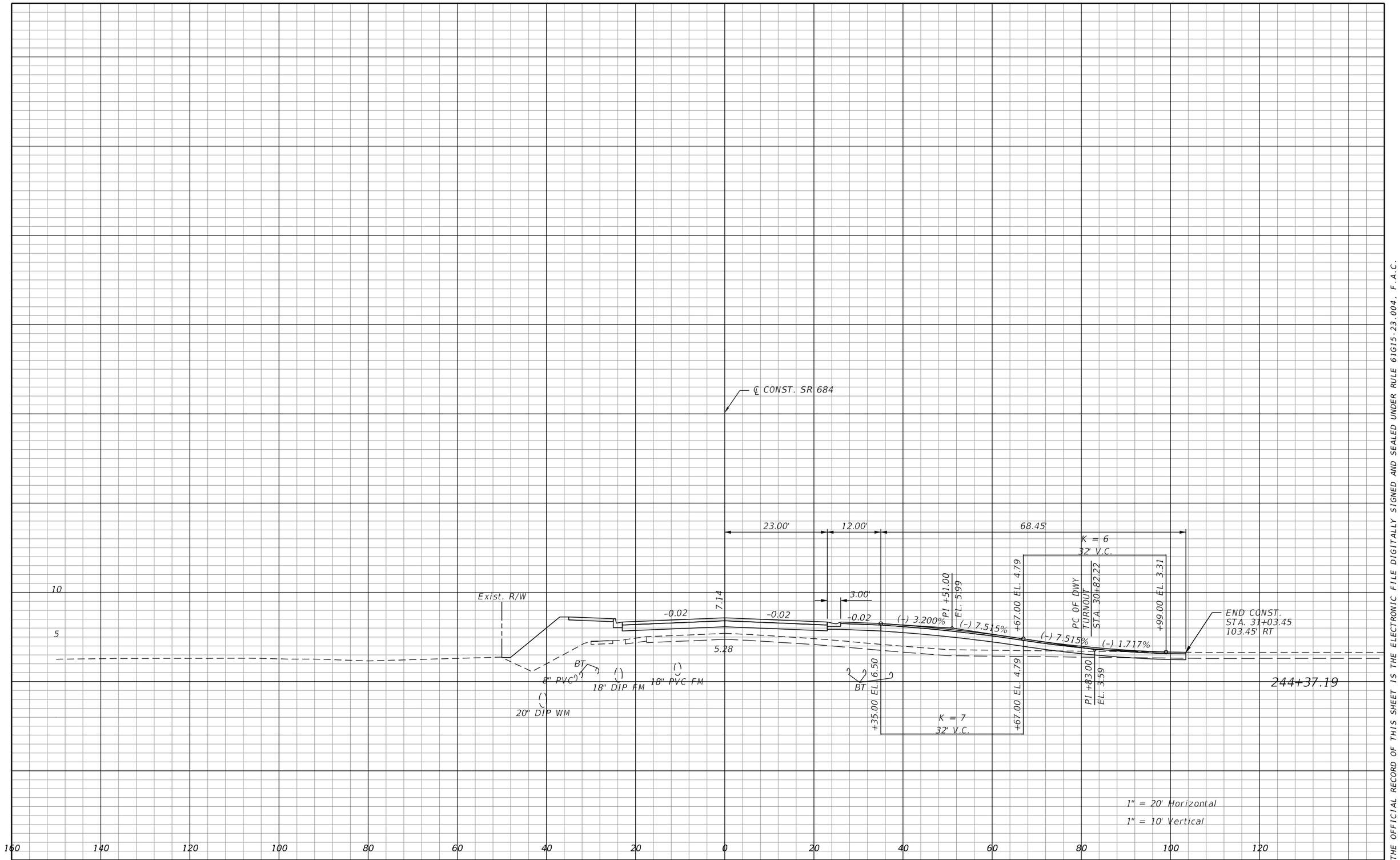
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SPECIAL PROFILES
SR 684 (CORTEZ ROAD W)

SHEET NO. 59



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

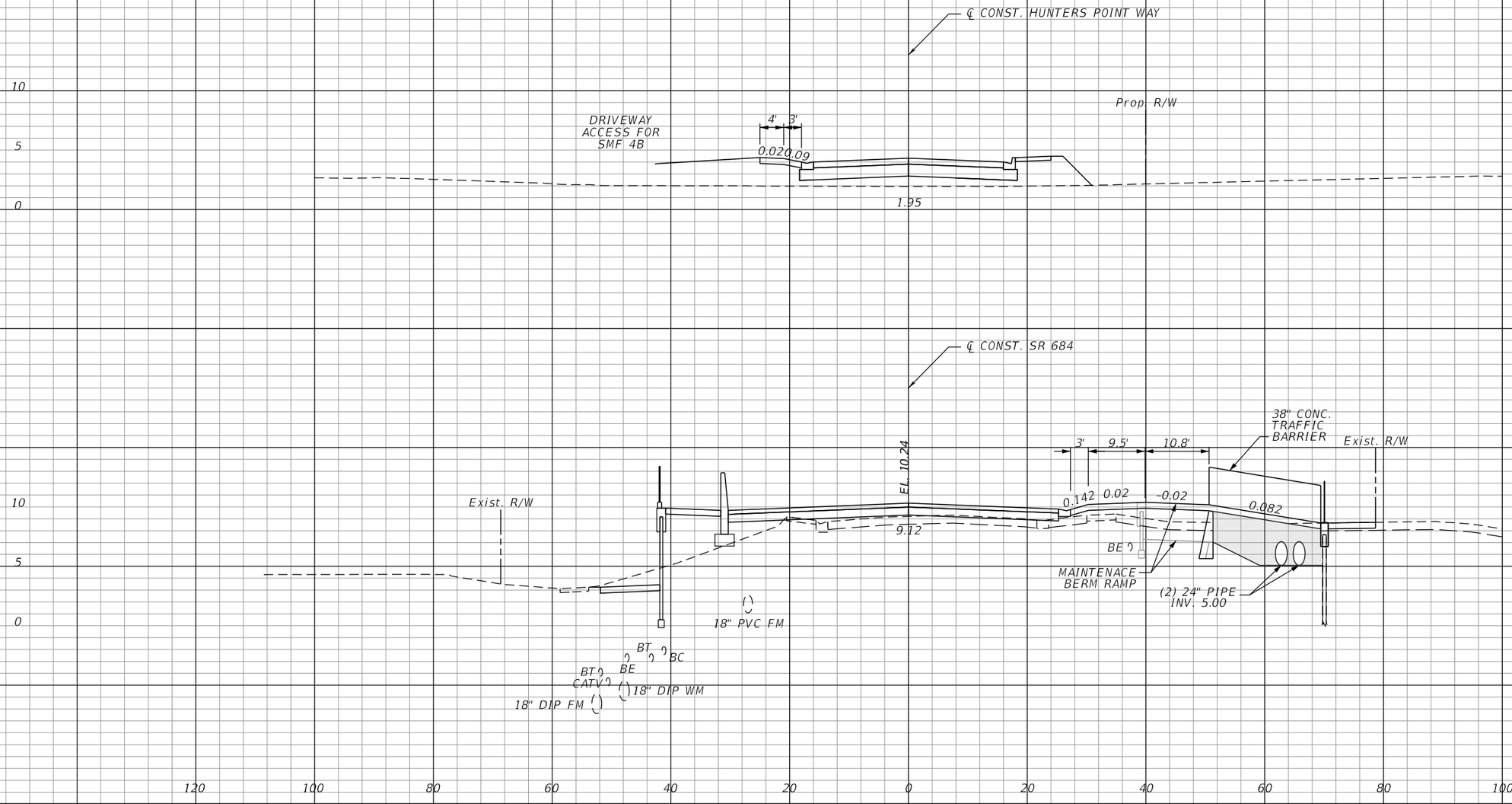
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SIDE STREET PROFILE
125TH ST W

SHEET NO. 60

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

SEE HUNTERS POINT WAY CROSS SECTIONS
FOR DRIVEWAY AT STA. 16+00.00.



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

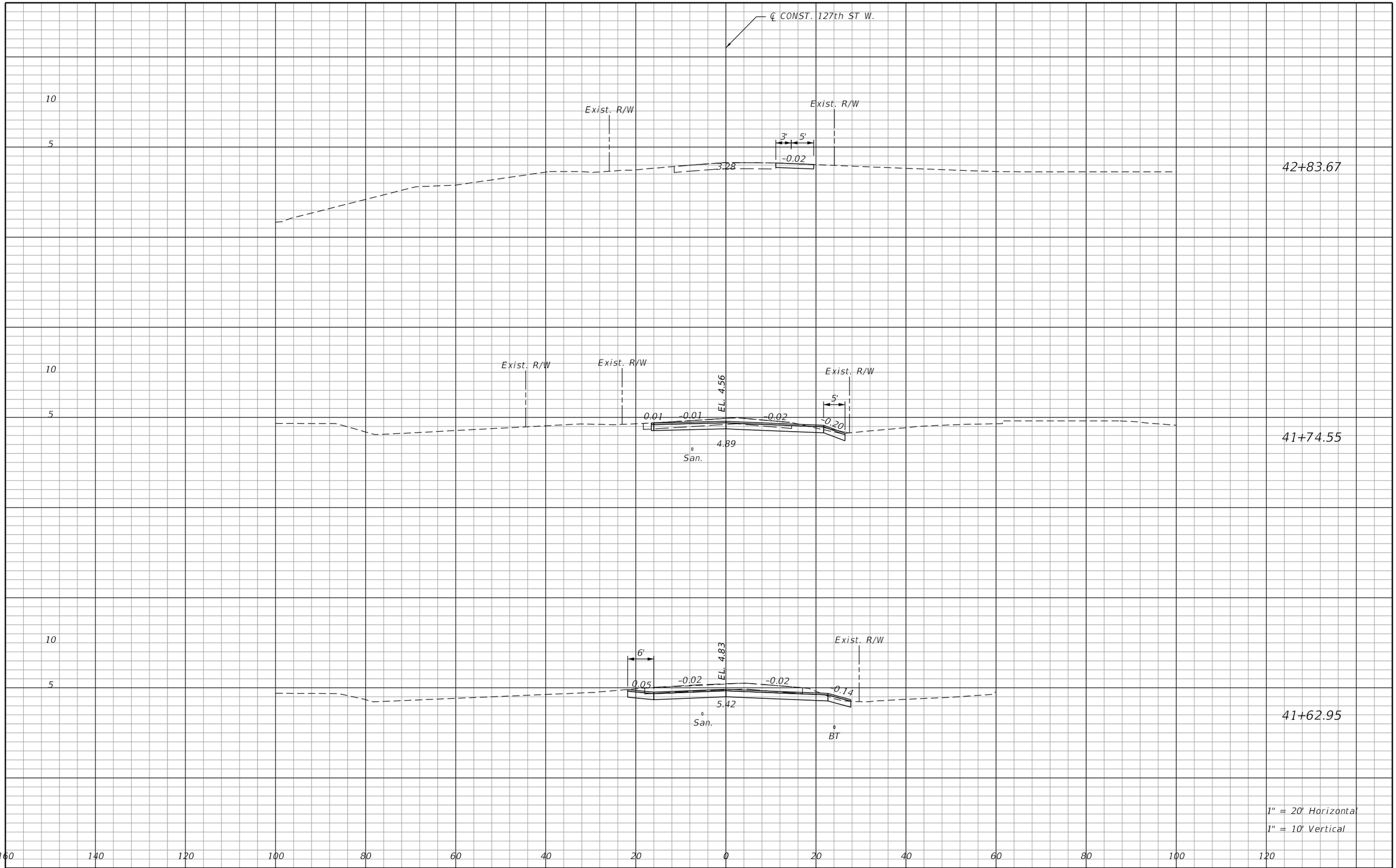
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRIVEWAY PROFILES

SHEET NO. 61

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

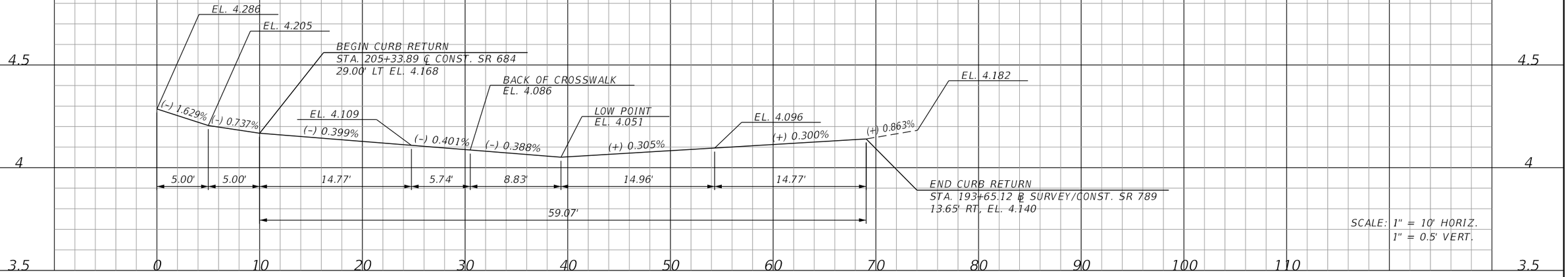
DRIVEWAY PROFILES

SHEET NO. 62

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

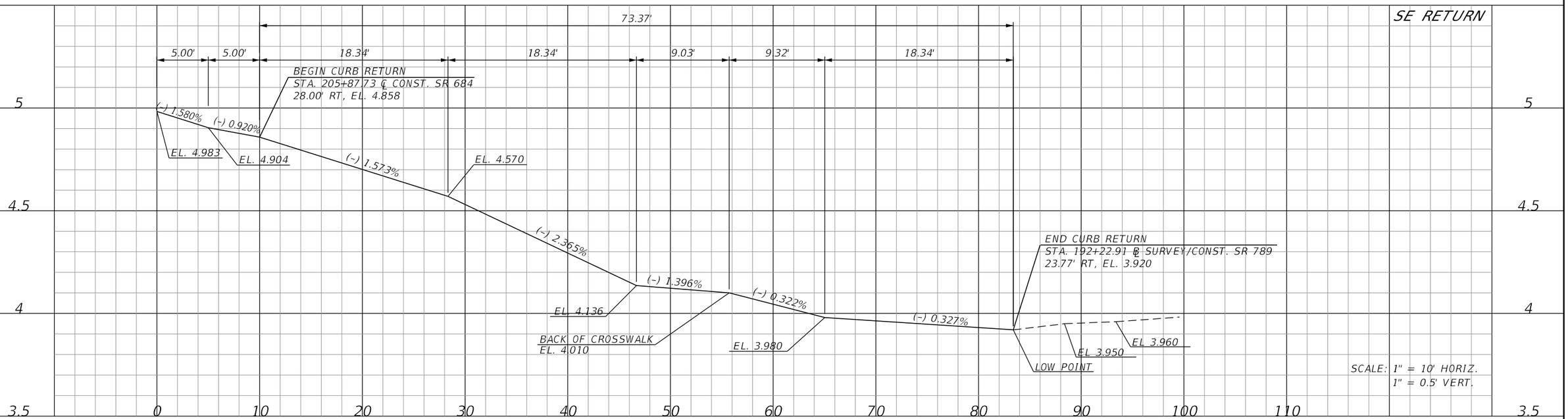
NE RETURN

NOTE:
ELEVATIONS SHOWN ARE FOR EDGE OF PAVEMENT, NOT GUTTER PROFILE.



SCALE: 1" = 10' HORIZ.
1" = 0.5' VERT.

SE RETURN



SCALE: 1" = 10' HORIZ.
1" = 0.5' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

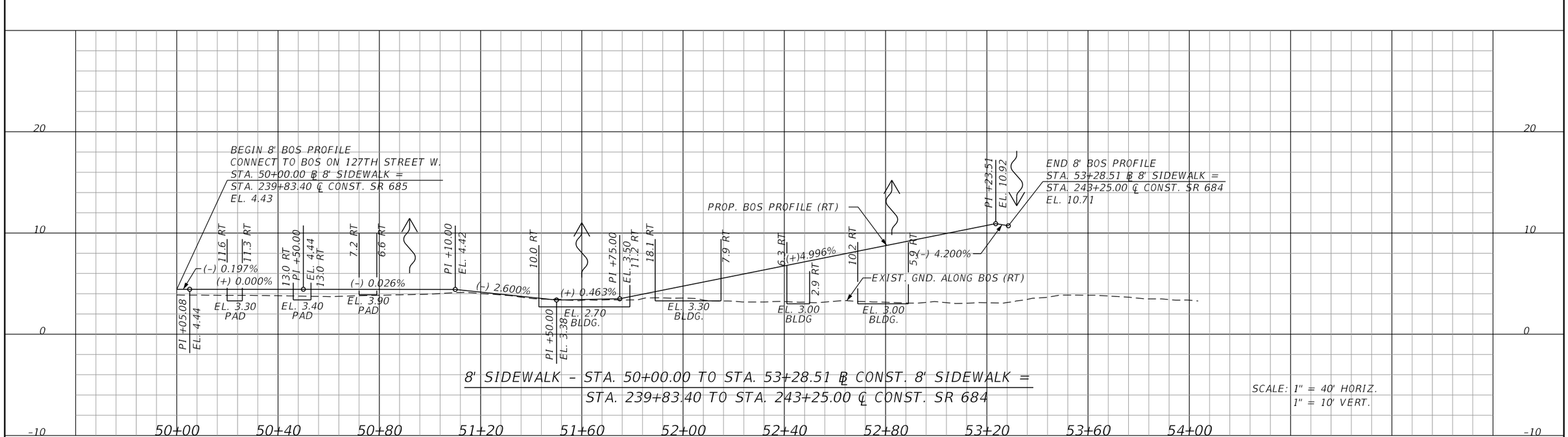
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CURB RETURN PROFILES
SR 684 AT GULF DR (SR 789)

SHEET NO. 63

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

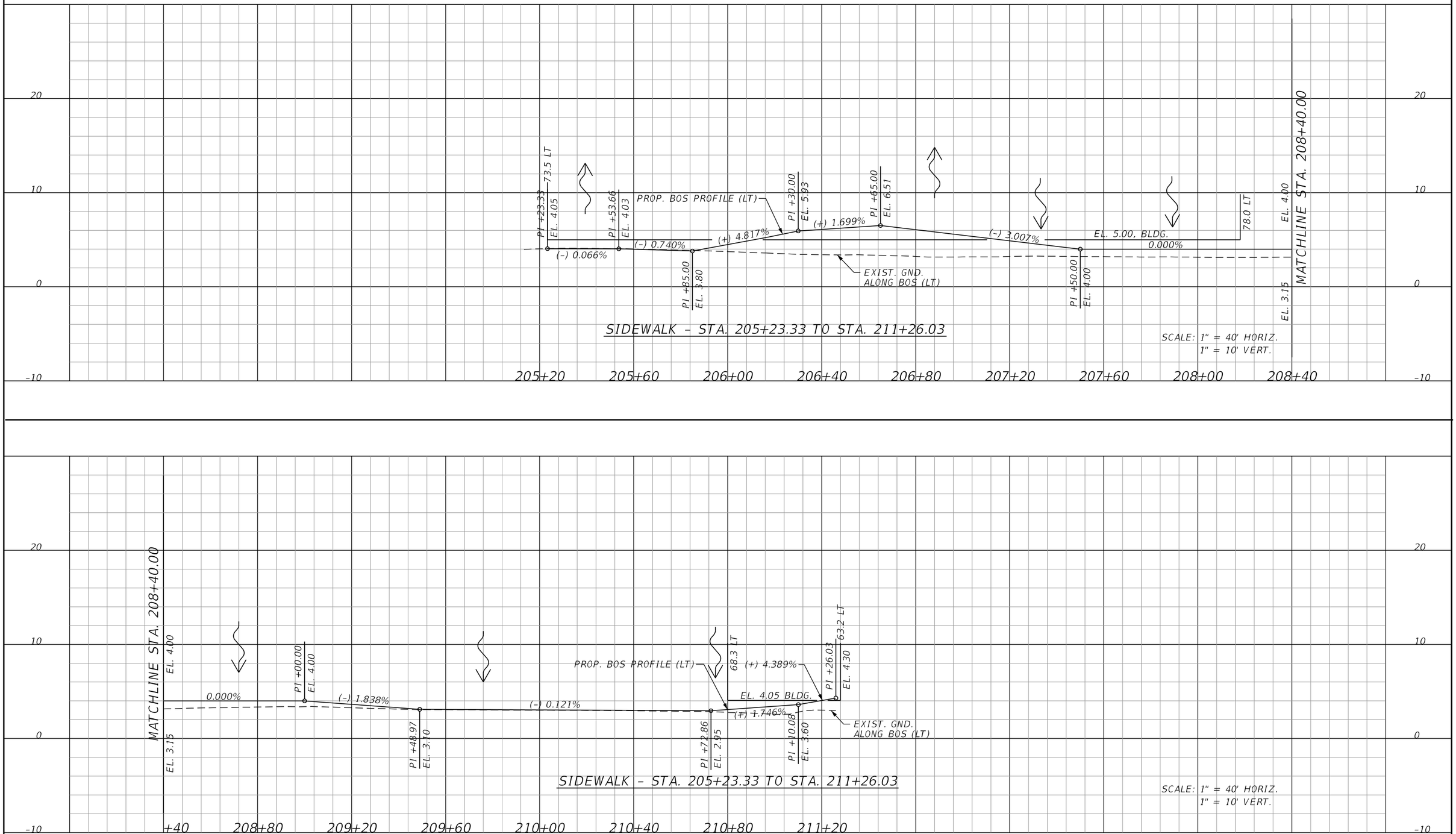
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SIDEWALK PROFILES
SR 684 (CORTEZ ROAD W)

SHEET NO. 64

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



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

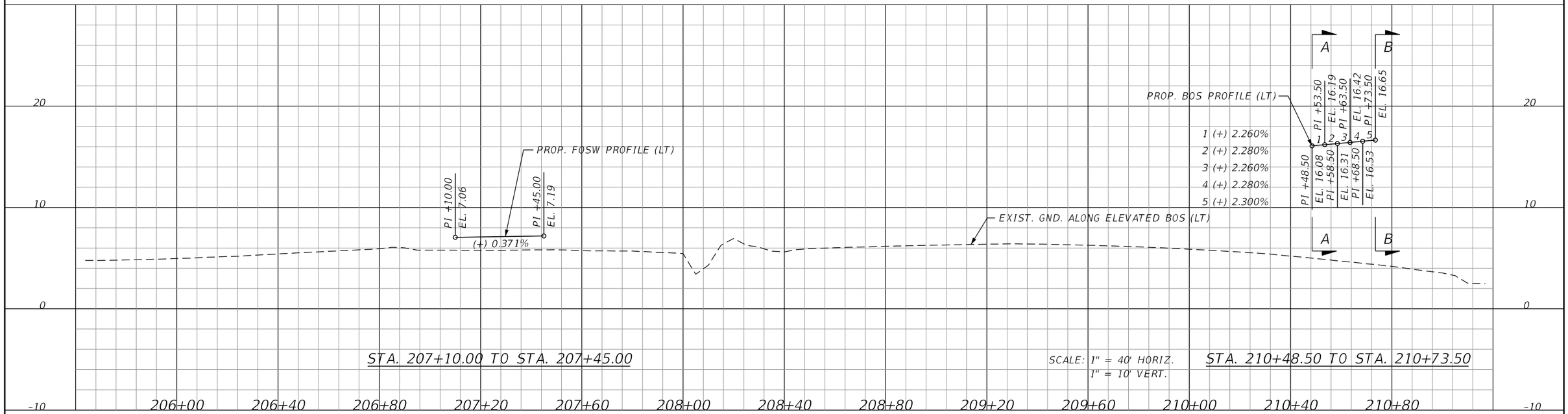
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SIDEWALK PROFILES
SR 684 (CORTEZ ROAD W)

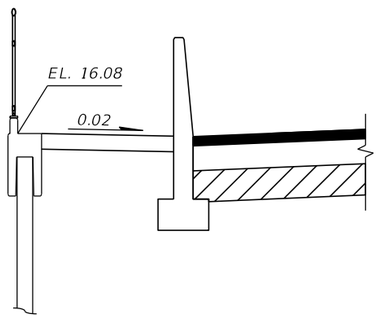
SHEET NO. 65



STA. 207+10.00 TO STA. 207+45.00

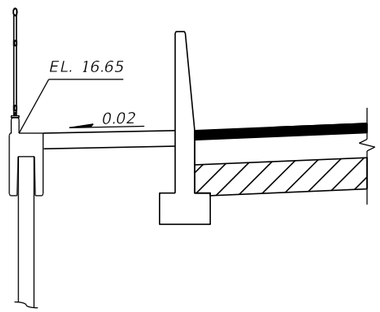
SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

STA. 210+48.50 TO STA. 210+73.50



SECTION A-A

BEGIN SWK. CROSS SLOPE TRANS.
STA. 210+48.50



SECTION B-B

END SWK. CROSS SLOPE TRANS.
STA. 210+73.50

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

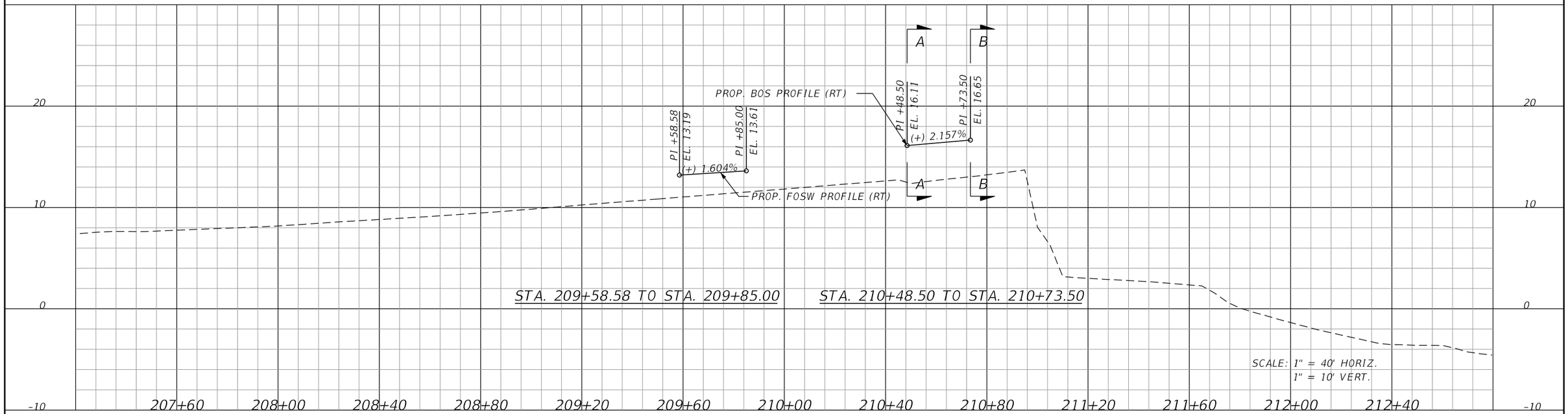
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

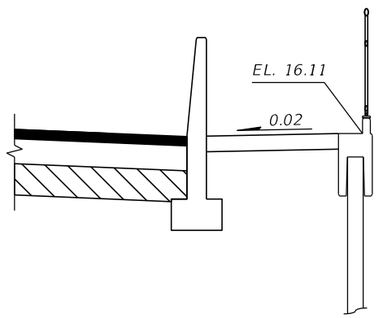
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SIDEWALK PROFILES
SR 684 (CORTEZ ROAD W)

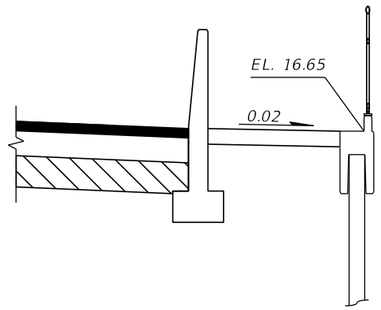
SHEET NO. 66





SECTION A–A

BEGIN SWK. CROSS SLOPE TRANS.
STA. 210+48.50



SECTION B–B

END SWK. CROSS SLOPE TRANS.
STA. 210+73.50

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

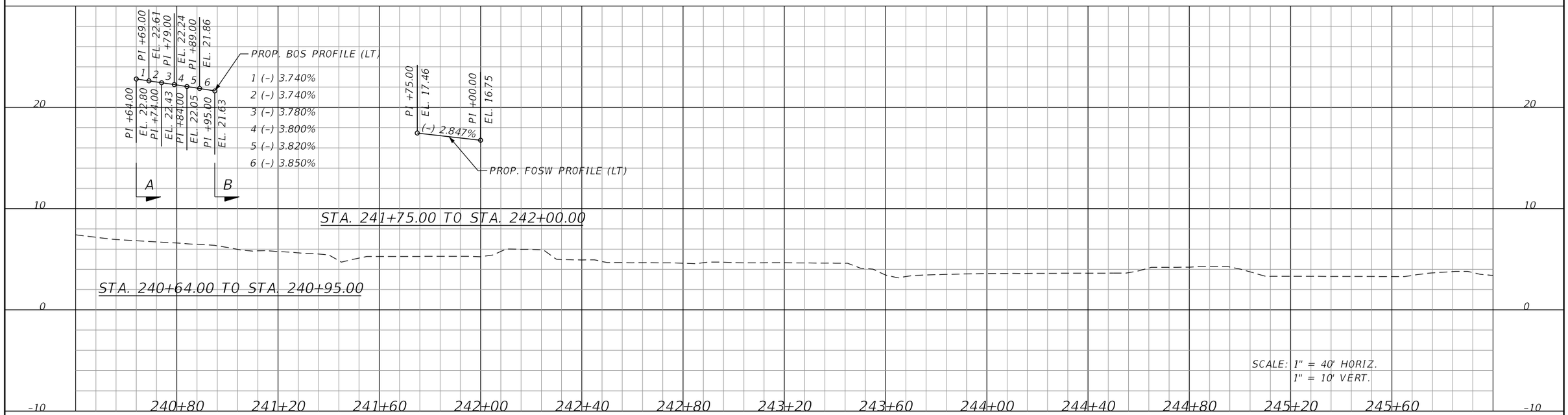
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

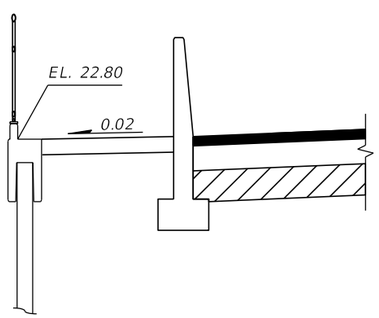
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SIDEWALK PROFILES
SR 684 (CORTEZ ROAD W)

SHEET NO. 67

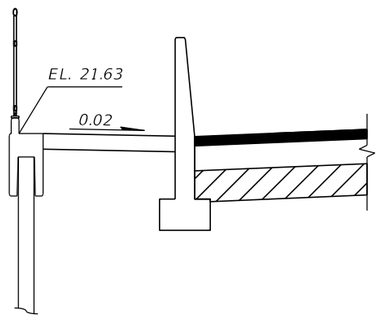
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





SECTION A–A

BEGIN SWK. CROSS SLOPE TRANS.
STA. 240+64.00



SECTION B–B

END SWK. CROSS SLOPE TRANS.
STA. 240+95.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

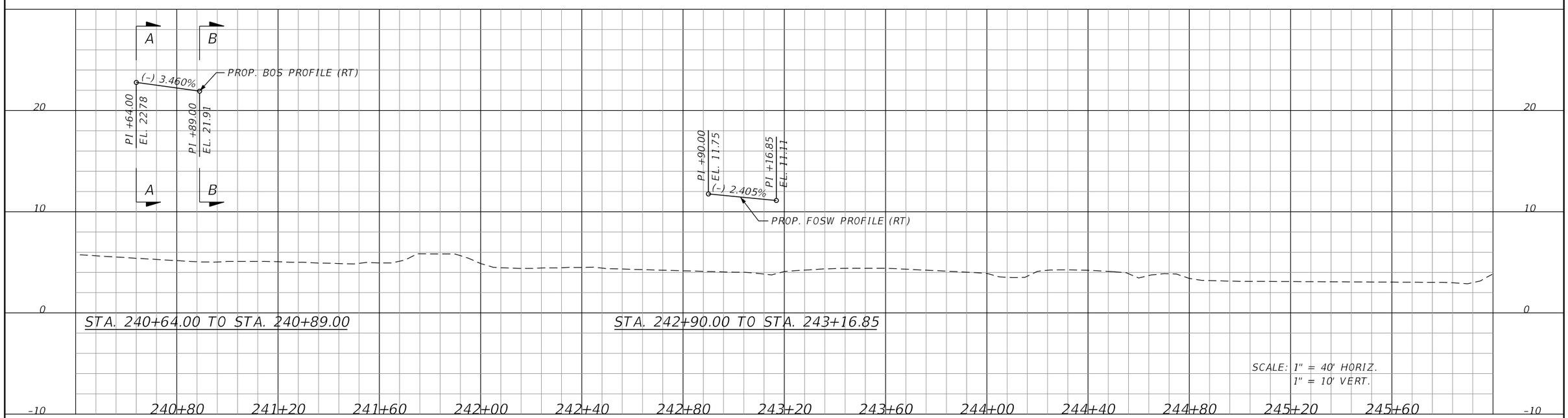
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

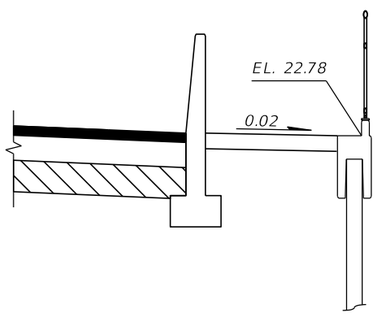
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SIDEWALK PROFILES
SR 684 (CORTEZ ROAD W)

SHEET NO. 68

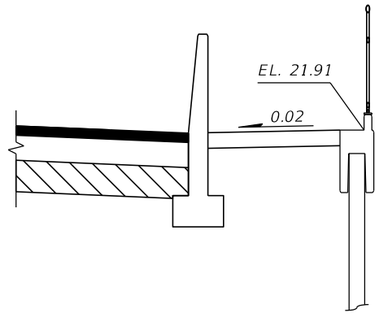
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





SECTION A–A

BEGIN SWK. CROSS SLOPE TRANS.
STA. 240+64.00



SECTION B–B

END SWK. CROSS SLOPE TRANS.
STA. 240+89.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

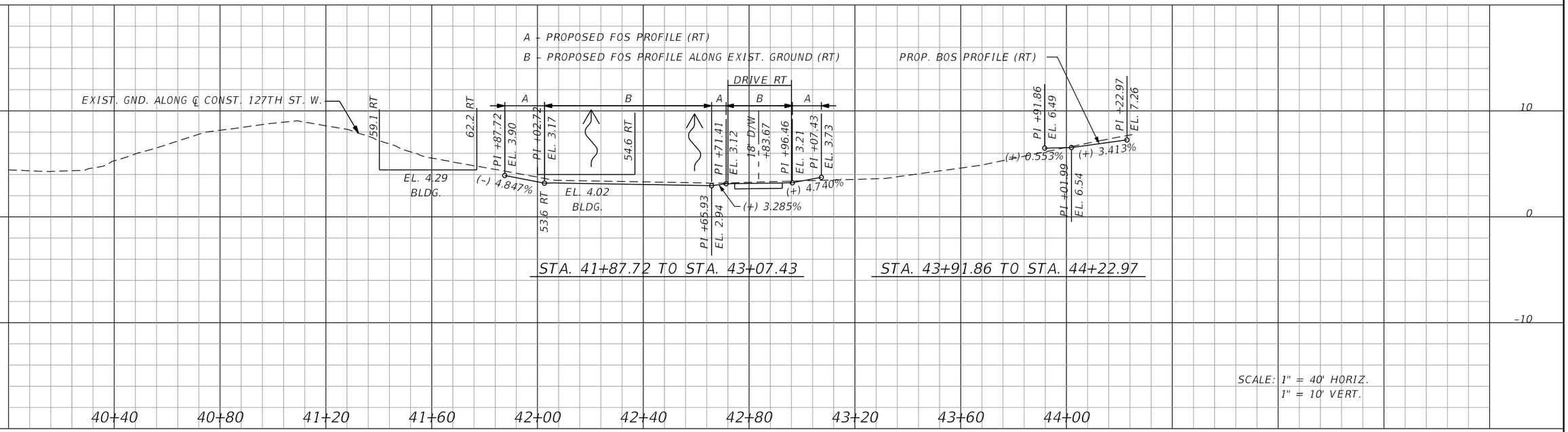
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SIDEWALK PROFILES
SR 684 (CORTEZ ROAD W)

SHEET NO. 69

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



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SIDEWALK PROFILES
127TH STREET W.

SHEET NO. 70

LEGEND

MILLING & RESURFACING

OVERBUILD

WIDENING

0 5 20

Feet

STA. 204+91.52 ℄ CONST. SR 684
STA. 193+06.71 ℄ SURVEY/CONST. SR 789

BEGIN PROJECT
BEGIN MILLING, RESURFACING & WIDENING
STA. 205+05.63 ℄ CONST. SR 684 =
STA. 93+78.50 ℄ SURVEY SR 684

END MILLING AND RESURFACING
STA. 194+30.00 ℄ SURVEY/CONST. SR 789

WARNING: GAS MAIN IN AREA OF CONSTRUCTION

POT STA. 204+50.00

EXIST. 14"x23" PIPE

EXIST. R/W

+30.00
21.82' LT

BEGIN MILLING AND RESURFACING
STA. 192+11.65 ℄ SURVEY/CONST. SR 789

+11.65
18.15' LT

SAW CUT LINE

PI STA. 192+67.44

S 89° 40' 37" E

EXIST. YELLOW
2'-4' DOTTED
GUIDELINE

EXIST. 14"x23" PIPE

+65.12
1.36' RT

192

193

194

SR 789 (GULF DR)

S 17° 05' 06" E

N 16° 57' 06" W

SR 789 (GULF DR)

℄ SURVEY SR 789

+51.74
11.44' RT

SAW CUT LINE

+23.75
11.69' RT

+37.05
11.80' RT

+51.74
15.91' RT

+83.59
11.44' RT

+85.49
16.14' RT
EL. 4.37

7.50' R

3.50' R

3.00' R

205

+90.76
21.13' RT
EL. 4.44

+48.32
13.94' RT

50.00' R

+65.12
11.57' RT

+65.12
13.65' RT
L.P. EL. 4.14

+23.67
21.92' RT

+22.91
23.77' RT

+11.65
22.49' RT
EL. 3.96

+49.67
21.10' RT

+88.82
20.66' RT
EL. 4.44

SAW CUT LINE

14"x23" PIPE

SAW CUT LINE

FLARED GUTTER LINE TO MATCH
EXIST. PAVT. ELEV. (4.05±)

+30.00
13.63' RT

EXIST. 14"x23" PIPE

EXIST. R/W

+06.61
25.00' RT

CONNECT TO
EXIST. C&G AND SWK.

+19.55
29.86' RT

+22.65
25.83' RT

CR-A

CR-A

6" CONC

CR-A

PI STA. 205+42.13

+33.89
29.00' LT
2.39' LT L.P. EL. 4.17

+05.86
37.40' LT
H.P. EL. 4.26

+64.16
25.00' RT

14"x23" PIPE

EXIST. 5' SIDEWALK

BEGIN SWK. WIDENING
CONNECT TO EXIST. SWK.
+28.97, 53.92' LT

5'

+33.30
46.10' LT

+30.27
57.69' LT

EXIST. 24"x38" PIPE

CR-C

17.00'

67.00' R

+70.47
61.50' RT

+59.84
69.30' RT

+50.00
9.00' RT

+50.00
11.00' RT

+59.18
11.00' RT

3.00' R

EXIST. R/W

EXISTING POND
ERP No. 15787.000

TYPE E C&G

TYPE F C&G

+71.03
69.15' RT

℄ CONST. SR 684

14"x23" PIPE

+53.66
49.75' LT

+52.03
39.73' LT

EXIST. R/W

+89.57
28.00' RT
EL. 4.92

SAW CUT LINE

S1-7

19"x30" PIPE

S1-6

6'

SR 684

206

PCC STA. 205+90.84

24" PIPE

10'

+85.00
50.05' LT

TYPE F C&G

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

INTERSECTION DETAIL

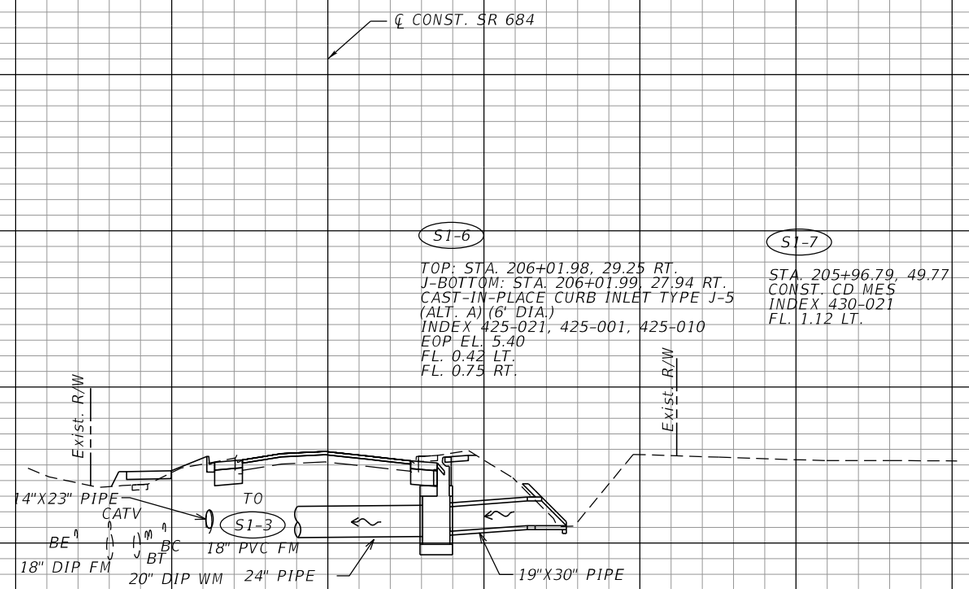
SHEET NO. 71

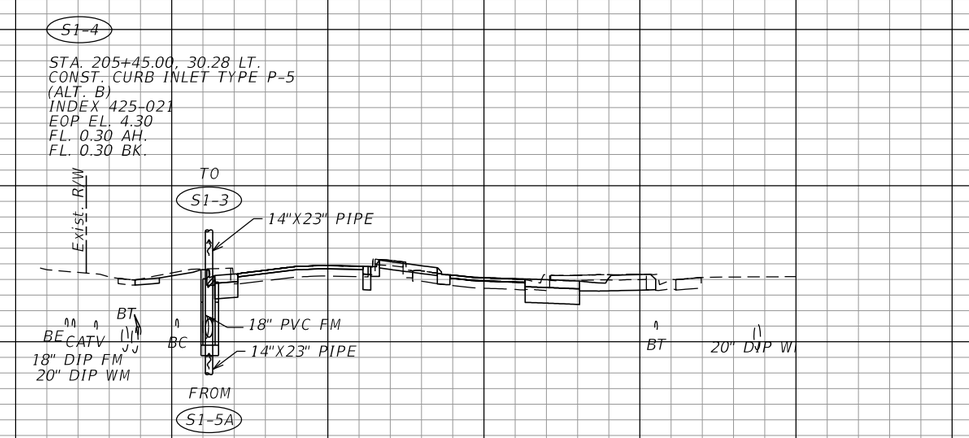
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

NOTES:

1. SPECIAL ATTENTION 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 SHEET SHOWS ALL MATERIALS ALLOWED AND INDICATES WHICH MATERIAL IS PLOTTED IN THE PLANS AND USED AS THE BASIS FOR PAY QUANTITIES.





1" = 40' Horizontal
1" = 10' Vertical

320 280 240 200 160 120 80 40 0 40 80 120 160 200 240

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

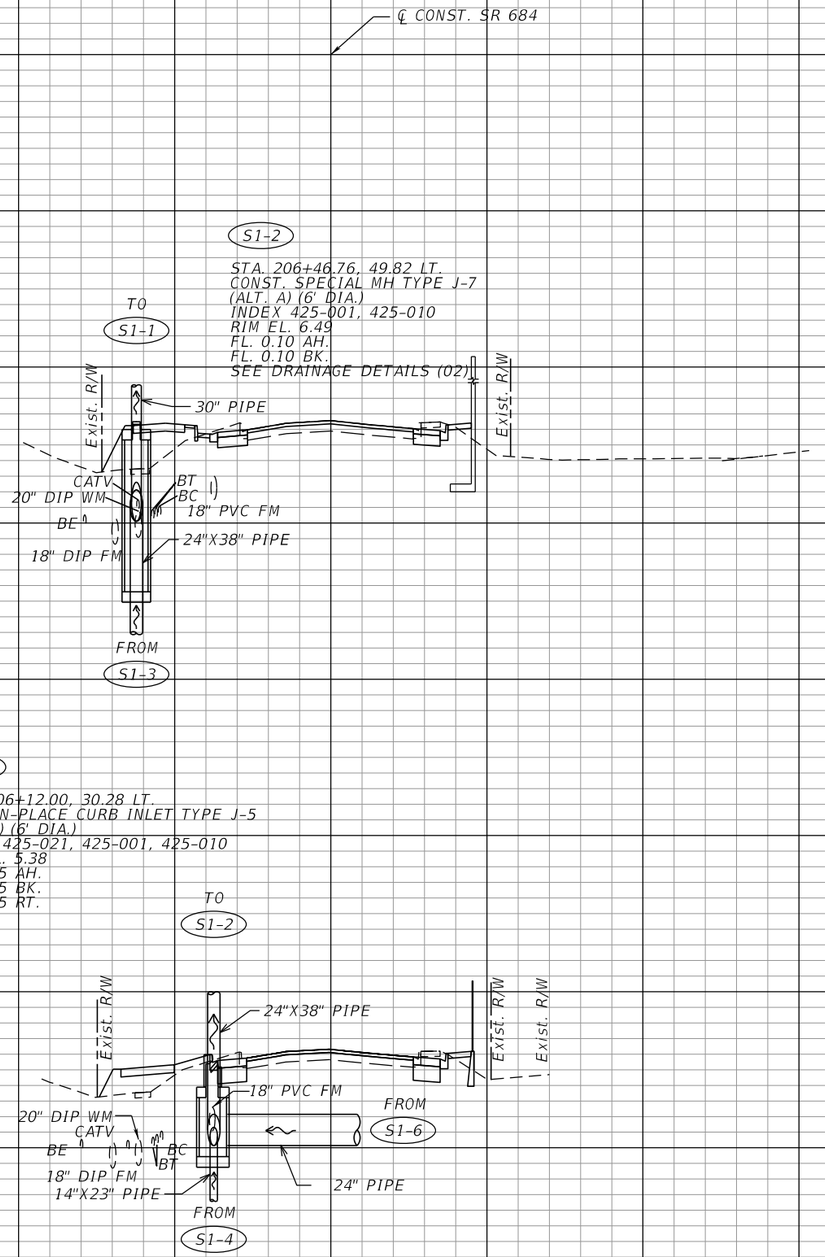
LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
SR 684 (CORTEZ ROAD W)

SHEET NO. 72



S1-2

206+46.76

S1-3

206+12.00

1" = 40' Horizontal

1" = 10' Vertical

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

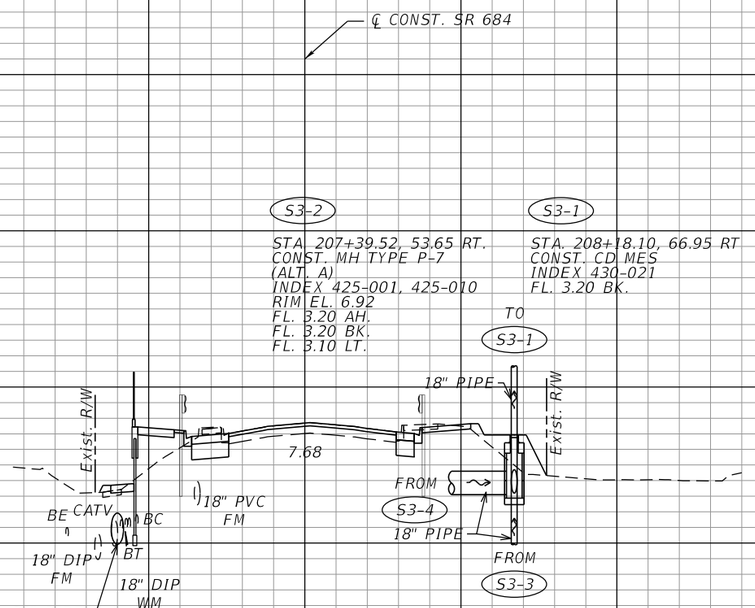
LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
SR 684 (CORTEZ ROAD W)

SHEET NO. 73



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

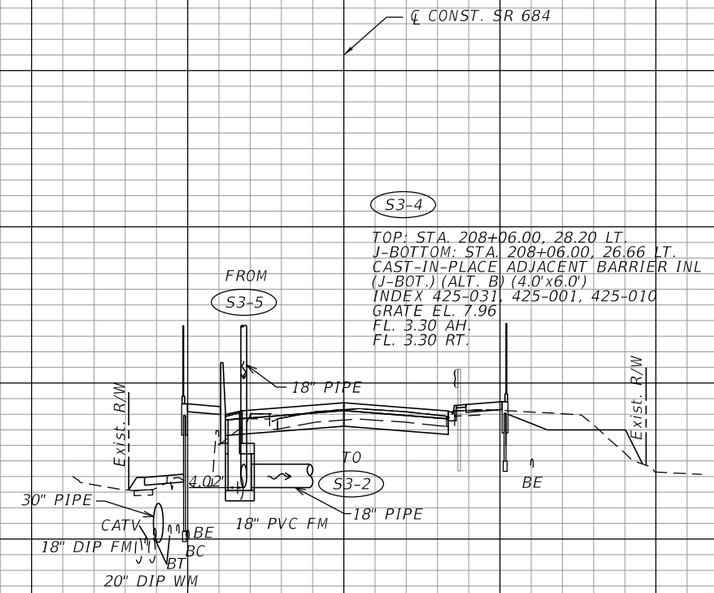
LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
SR 684 (CORTEZ ROAD W)

SHEET NO. 74



S3-4

208+06.00

S1-1

207+99.57

1" = 40' Horizontal

1" = 10' Vertical

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

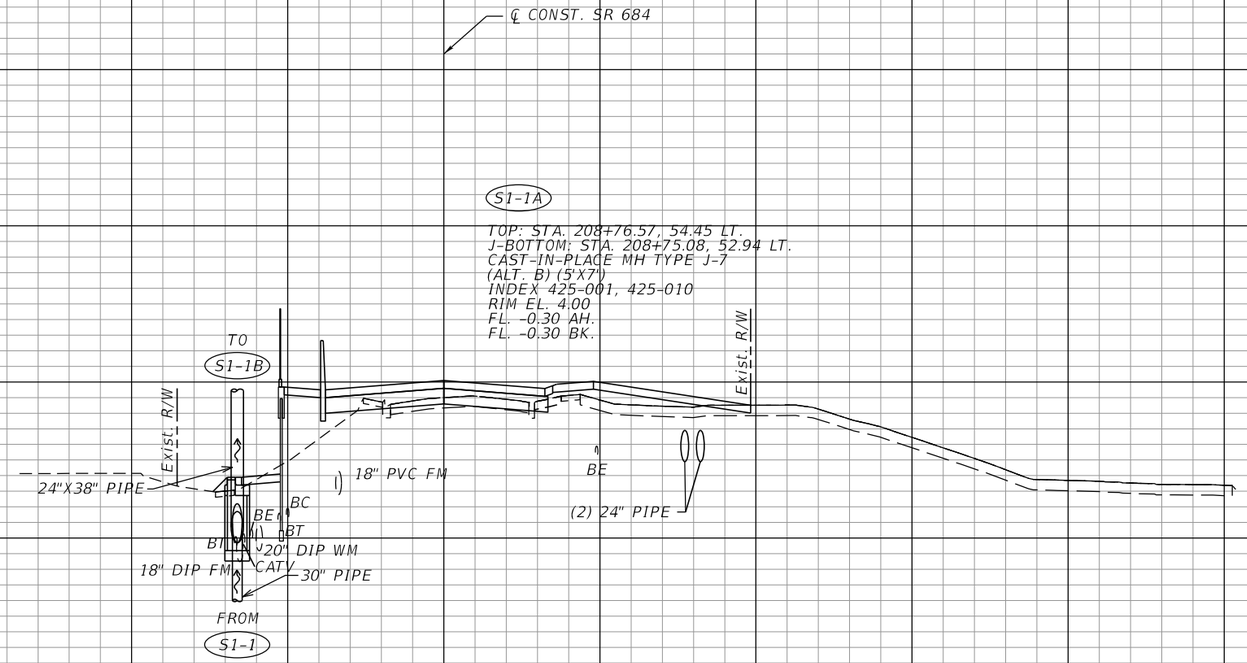
LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
SR 684 (CORTEZ ROAD W)

SHEET NO. 75



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

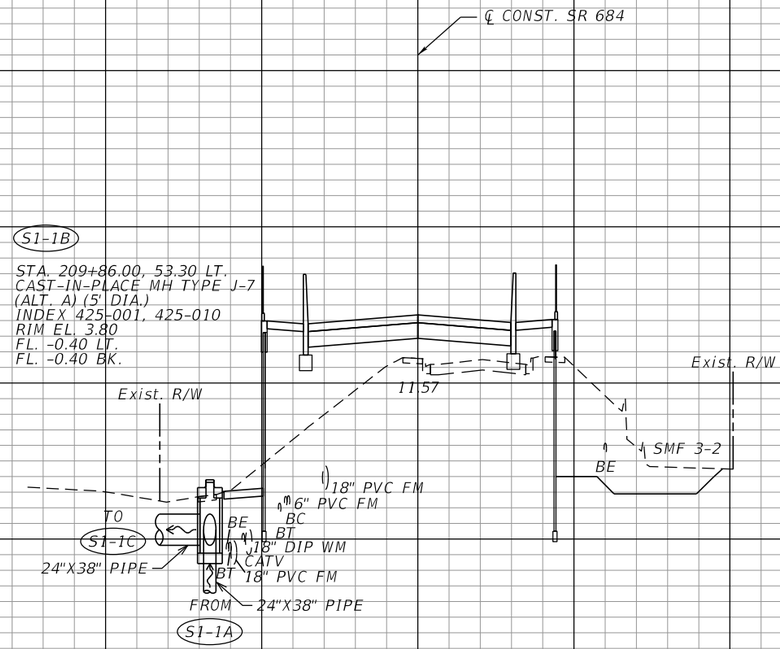
LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
SR 684 (CORTEZ ROAD W)

SHEET NO. 76



S1-1B
209+86.00

S3-6
209+30.00

1" = 40' Horizontal
1" = 10' Vertical

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

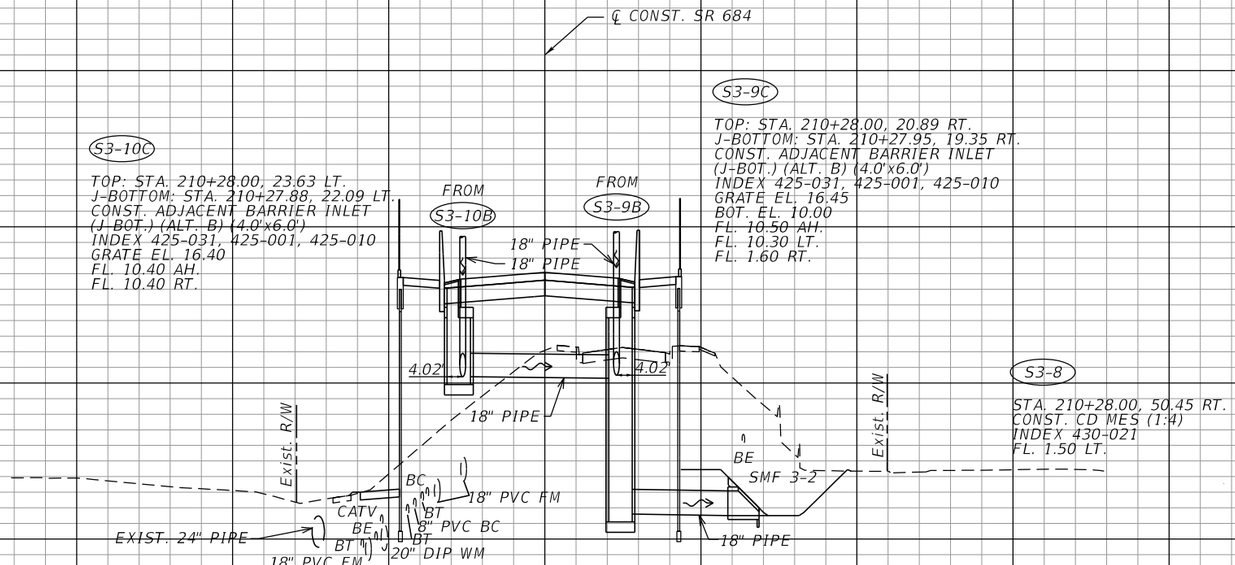
LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
SR 684 (CORTEZ ROAD W)

SHEET NO. 77



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
SR 684 (CORTEZ ROAD W)

SHEET NO. 78

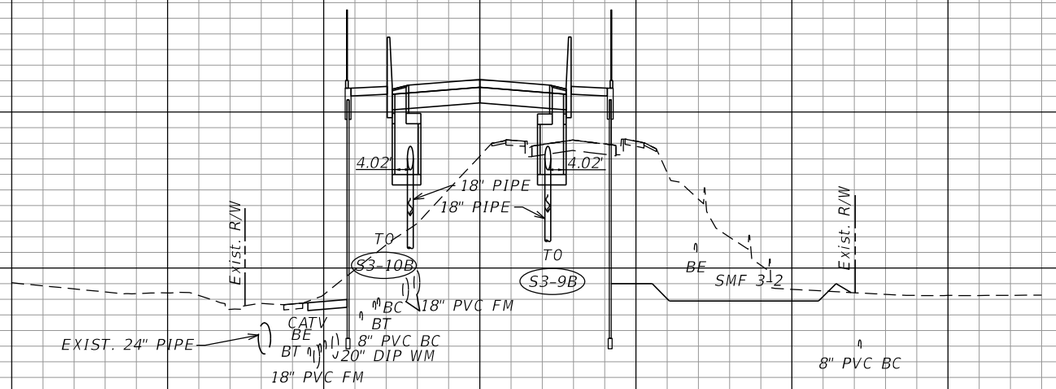
℄ CONST. SR 684

S3-10A

TOP: STA. 210+68.00, 20.38 LT.
J-BOTTOM: STA. 210+67.86, 18.84 LT.
CONST. ADJACENT BARRIER INLET
(J-BOT.) (ALT. B) (4.0'x6.0')
INDEX 425-031, 425-001, 425-010
GRATE EL. 16.46
FL. 11.30 BK.

S3-9A

TOP: STA. 210+68.00, 19.97 RT.
J-BOTTOM: STA. 210+67.96, 18.43 RT.
CONST. ADJACENT BARRIER INLET
(J-BOT.) (ALT. B) (4.0'x6.0')
INDEX 425-031, 425-001, 425-010
GRATE EL. 16.47
FL. 11.30 BK.

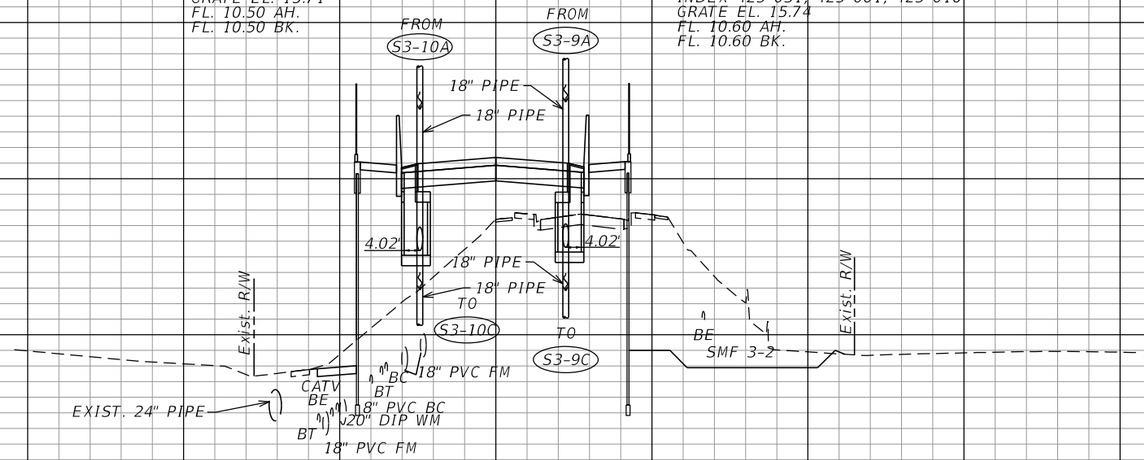


S3-10B

TOP: STA. 210+48.00, 22.08 LT.
J-BOTTOM: STA. 210+47.87, 20.54 LT.
CONST. ADJACENT BARRIER INLET
(J-BOT.) (ALT. B) (4.0'x6.0')
INDEX 425-031, 425-001, 425-010
GRATE EL. 15.71
FL. 10.50 AH.
FL. 10.50 BK.

S3-9B

TOP: STA. 210+48.00, 23.43 RT.
J-BOTTOM: STA. 210+47.96, 18.89 RT.
CONST. ADJACENT BARRIER INLET
(J-BOT.) (ALT. B) (4.0'x6.0')
INDEX 425-031, 425-001, 425-010
GRATE EL. 15.74
FL. 10.60 AH.
FL. 10.60 BK.



S3-10A
S3-9A
210+68.00

S3-10B
S3-9B
210+48.00

1" = 40' Horizontal
1" = 10' Vertical

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

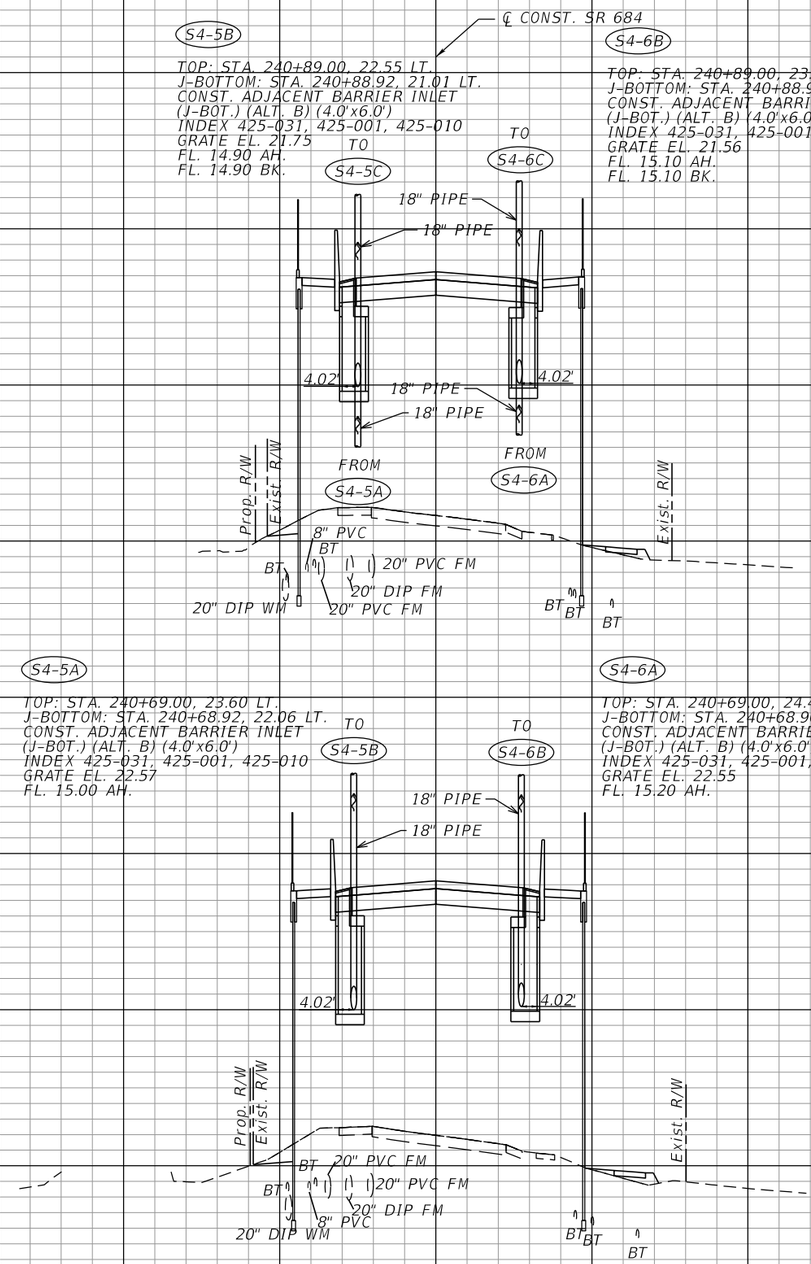
LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
SR 684 (CORTEZ ROAD W)

SHEET NO. 79



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

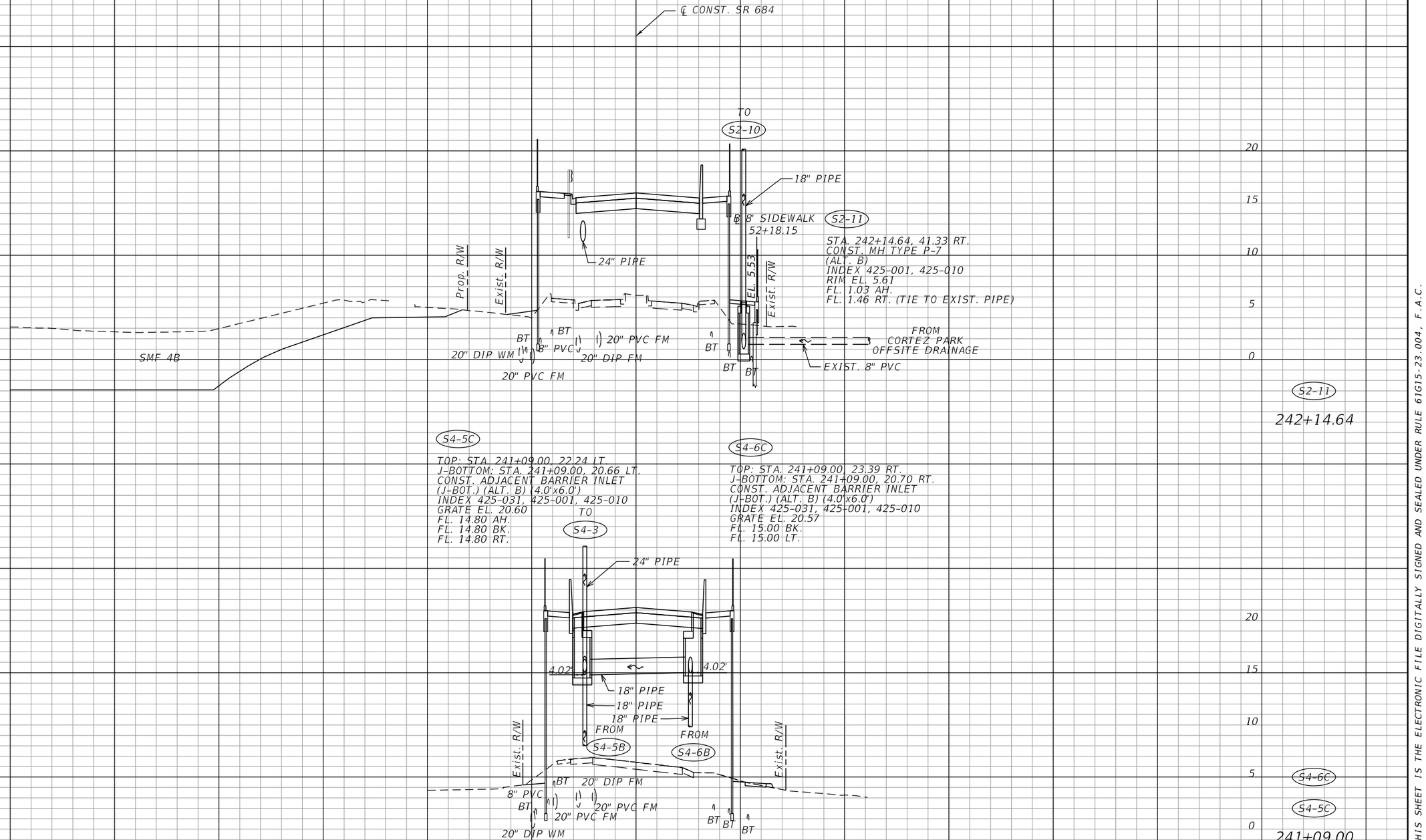
LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
SR 684 (CORTEZ ROAD W)

SHEET NO. 80



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

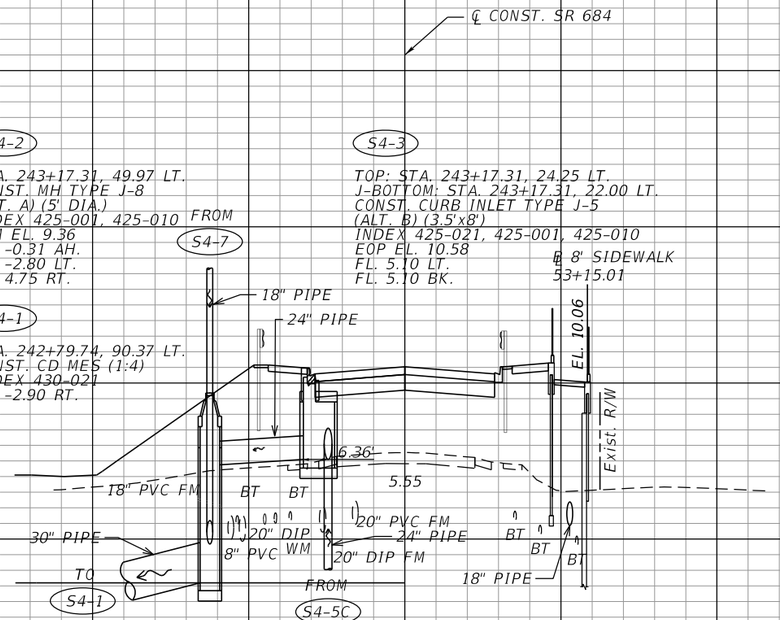
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

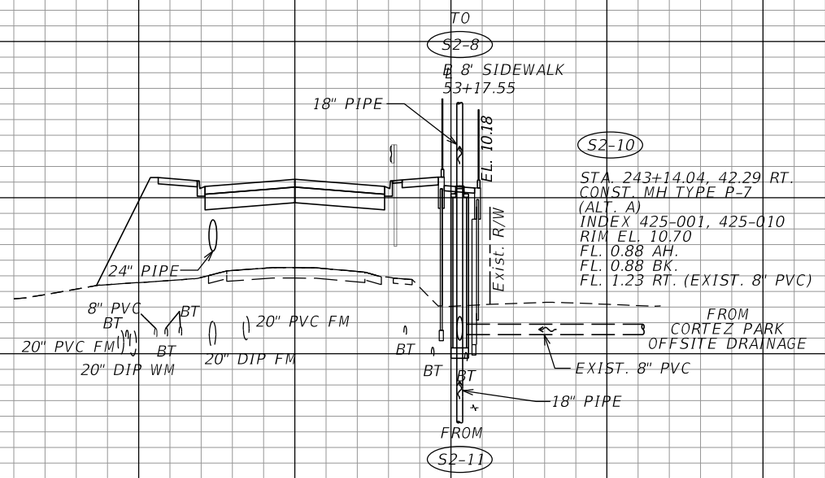
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
SR 684 (CORTEZ ROAD W)

SHEET NO. 81

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





1" = 40' Horizontal

1" = 10' Vertical

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

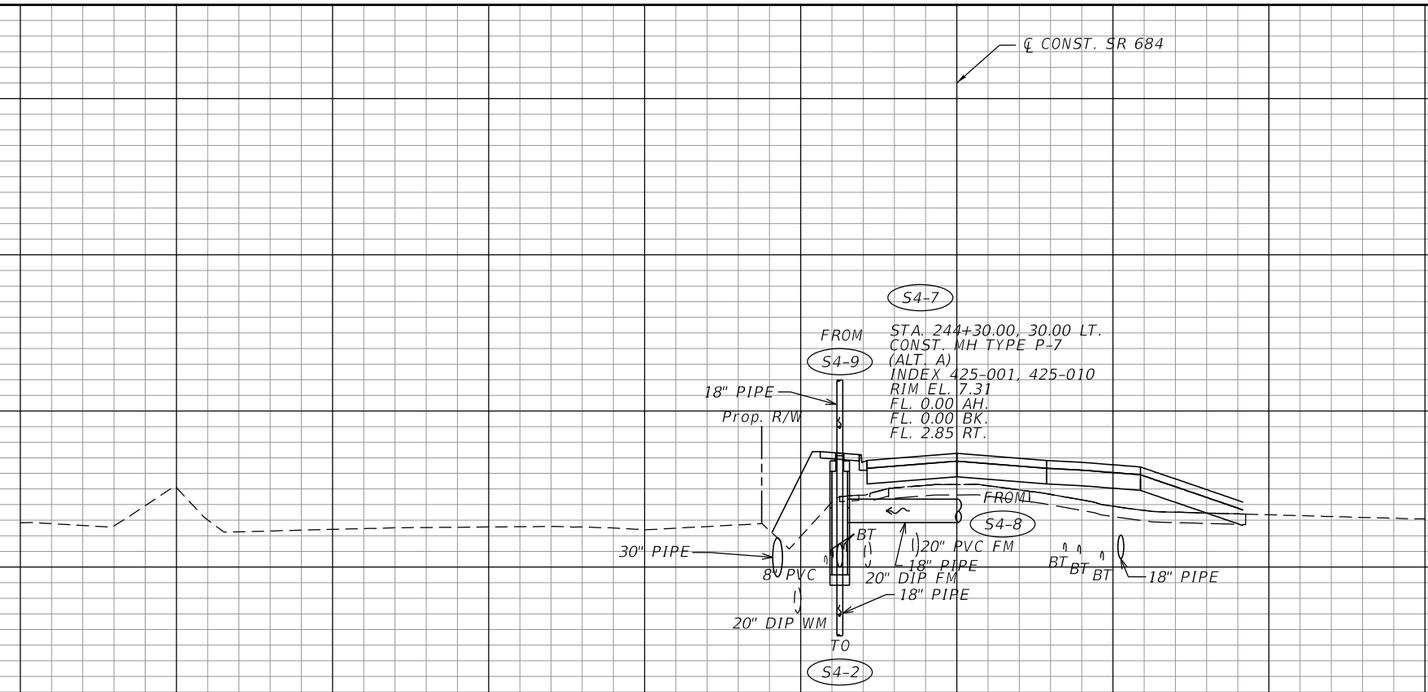
LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

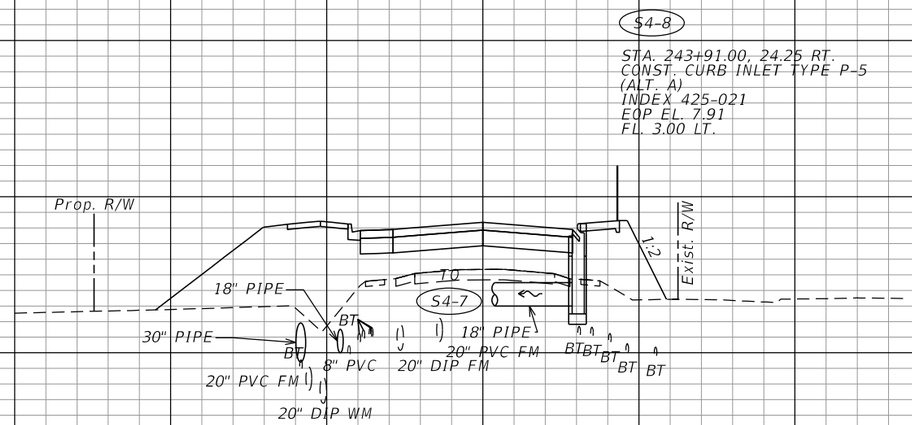
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
SR 684 (CORTEZ ROAD W)

SHEET NO. 82





S4-7

244+30.00

S4-8

243+91.00

320 280 240 200 160 120 80 40 0 40 80 120 160 200 240

1" = 40' Horizontal

1" = 10' Vertical

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

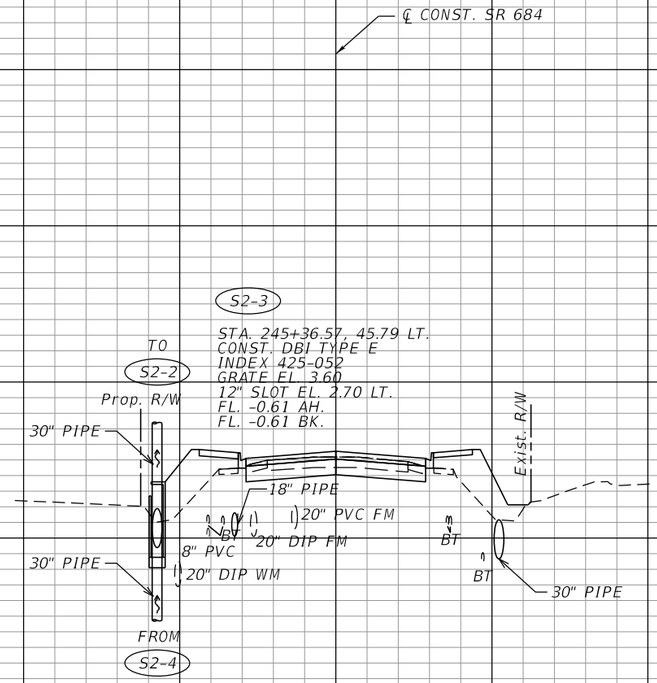
LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

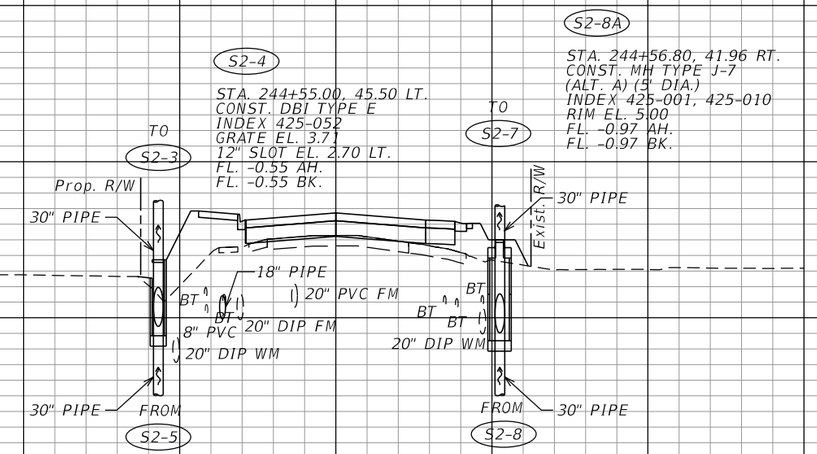
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
SR 684 (CORTEZ ROAD W)

SHEET NO. 83





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
SR 684 (CORTEZ ROAD W)

SHEET NO. 84

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

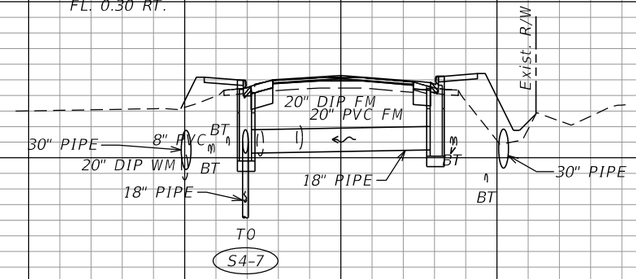
℄ CONST. SR 684

S4-9

STA. 245+82.00, 24.28 LT.
CONST. CURB INLET TYPE P-5
INDEX 425-021
EOP EL. 4.59
FL. 0.30 BK.
FL. 0.30 RT.

S4-10

STA. 245+82.00, 24.22 RT.
CONST. CURB INLET TYPE P-5
INDEX 425-021
EOP EL. 4.82
FL. 0.50 LT.



20 15 10 5 0

320 280 240 200 160 120 80 40 0 40 80 120 160 200 240

S4-9

S4-10

245+82.00

1" = 40' Horizontal

1" = 10' Vertical

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

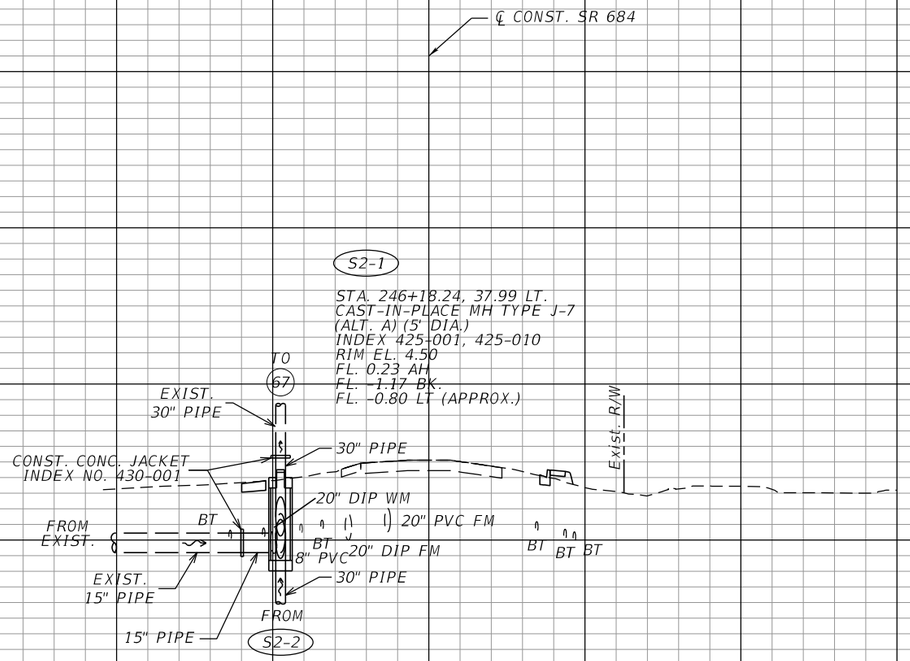
LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
SR 684 (CORTEZ ROAD W)

SHEET NO. 85



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

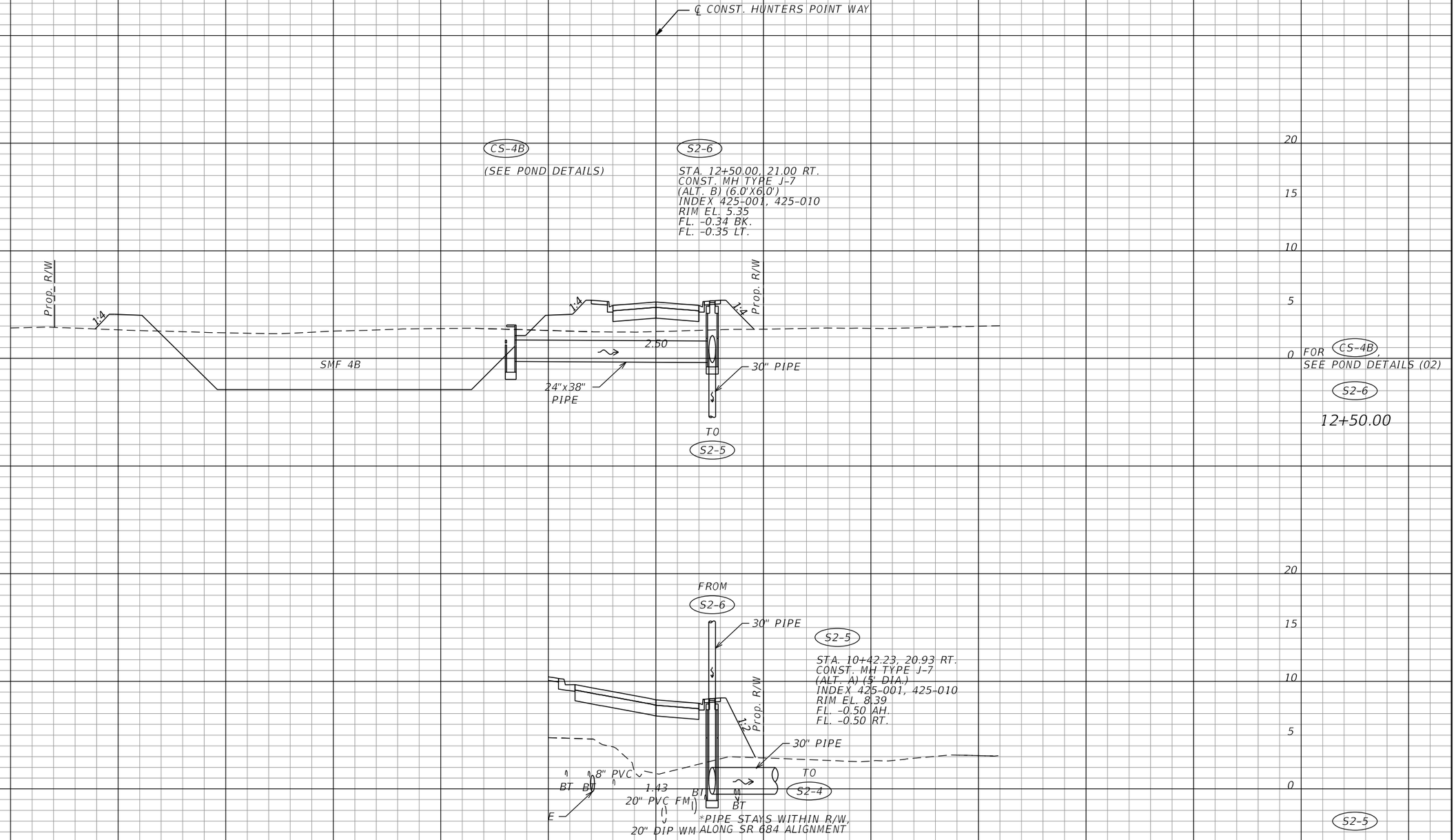
LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
SR 684 (CORTEZ ROAD W)

SHEET NO. 86



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

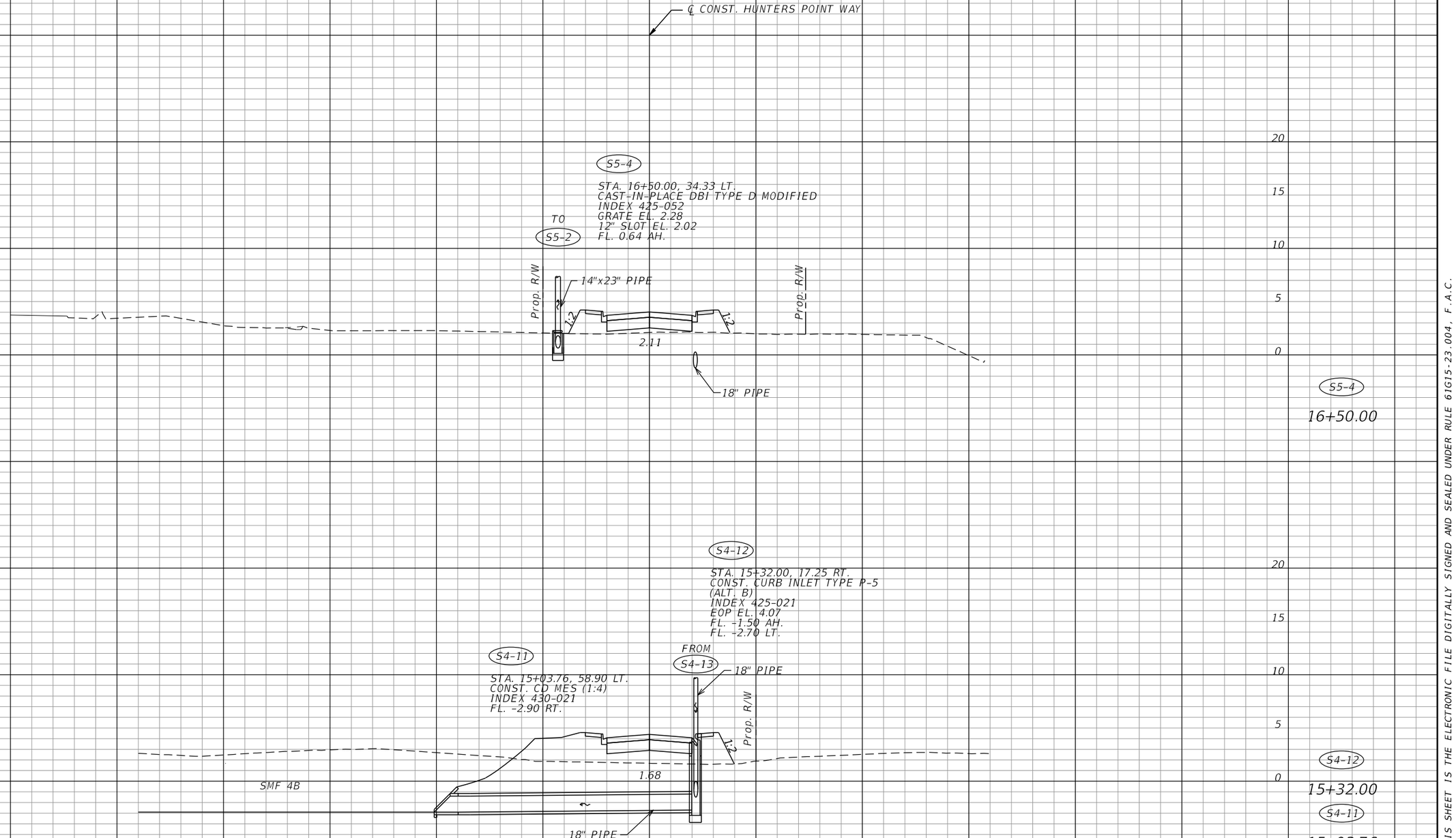
LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
HUNTERS POINT WAY

SHEET NO. 87



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

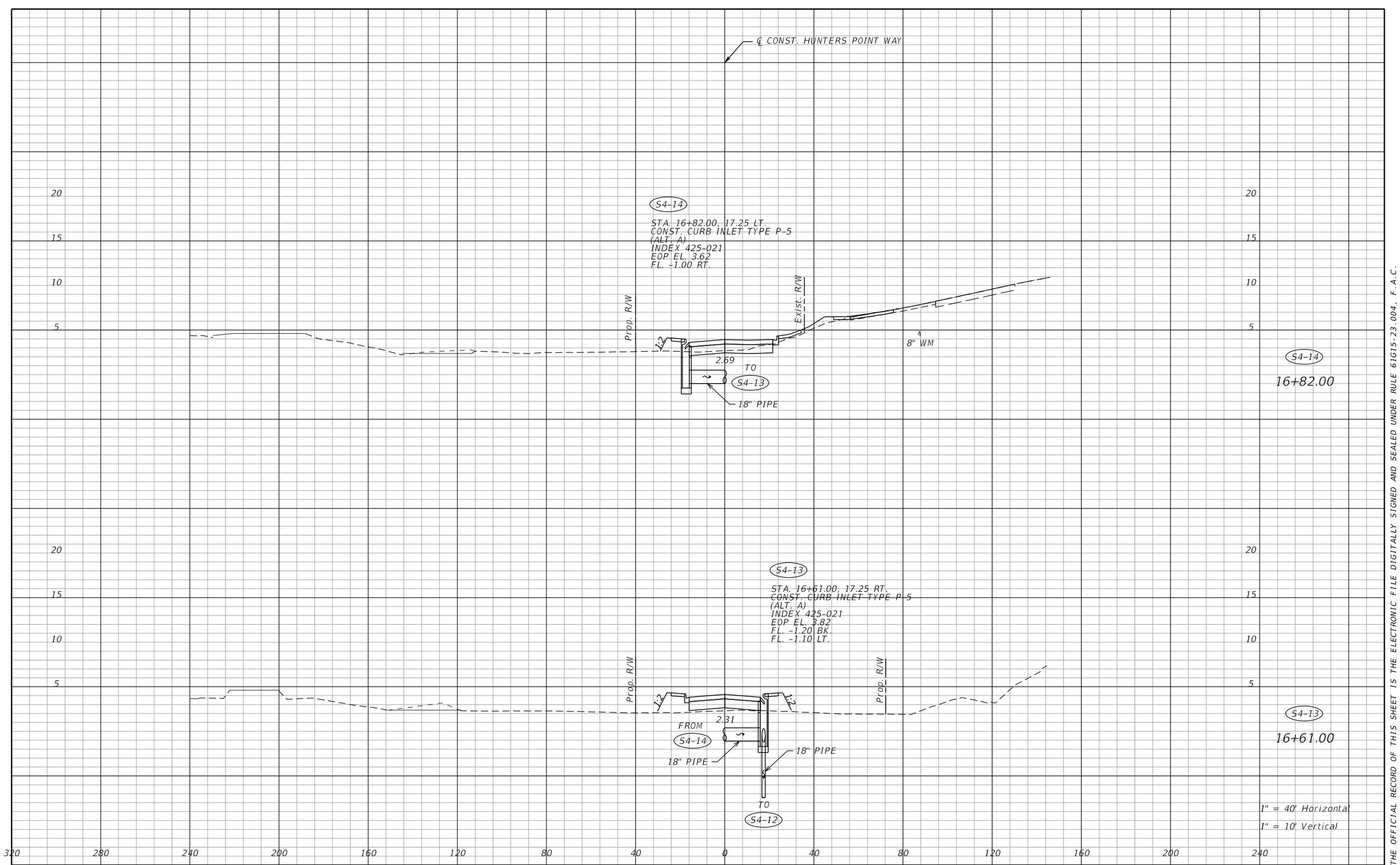
LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
HUNTERS POINT WAY

SHEET NO. 88



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

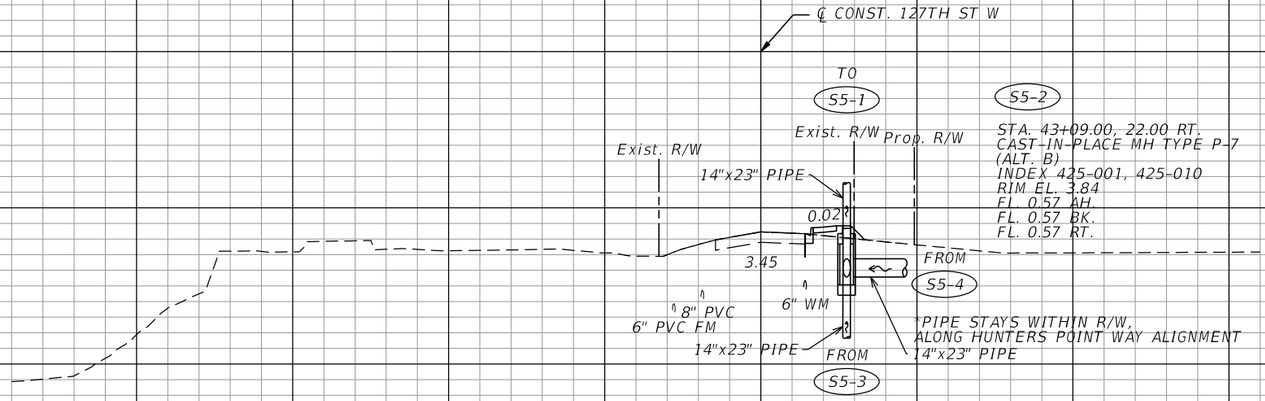
LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

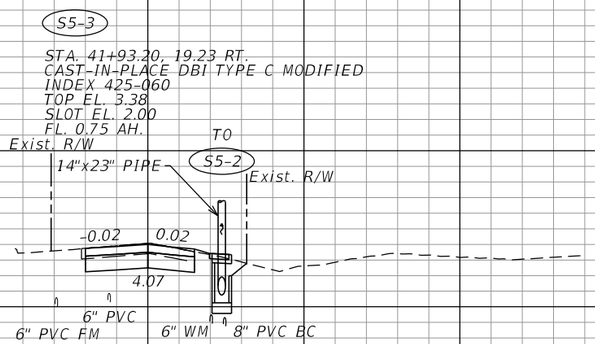
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
HUNTERS POINT WAY

SHEET NO. 89





S5-2
43+09.00

S5-3
41+93.20

1" = 40' Horizontal
1" = 10' Vertical

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REVISIONS			
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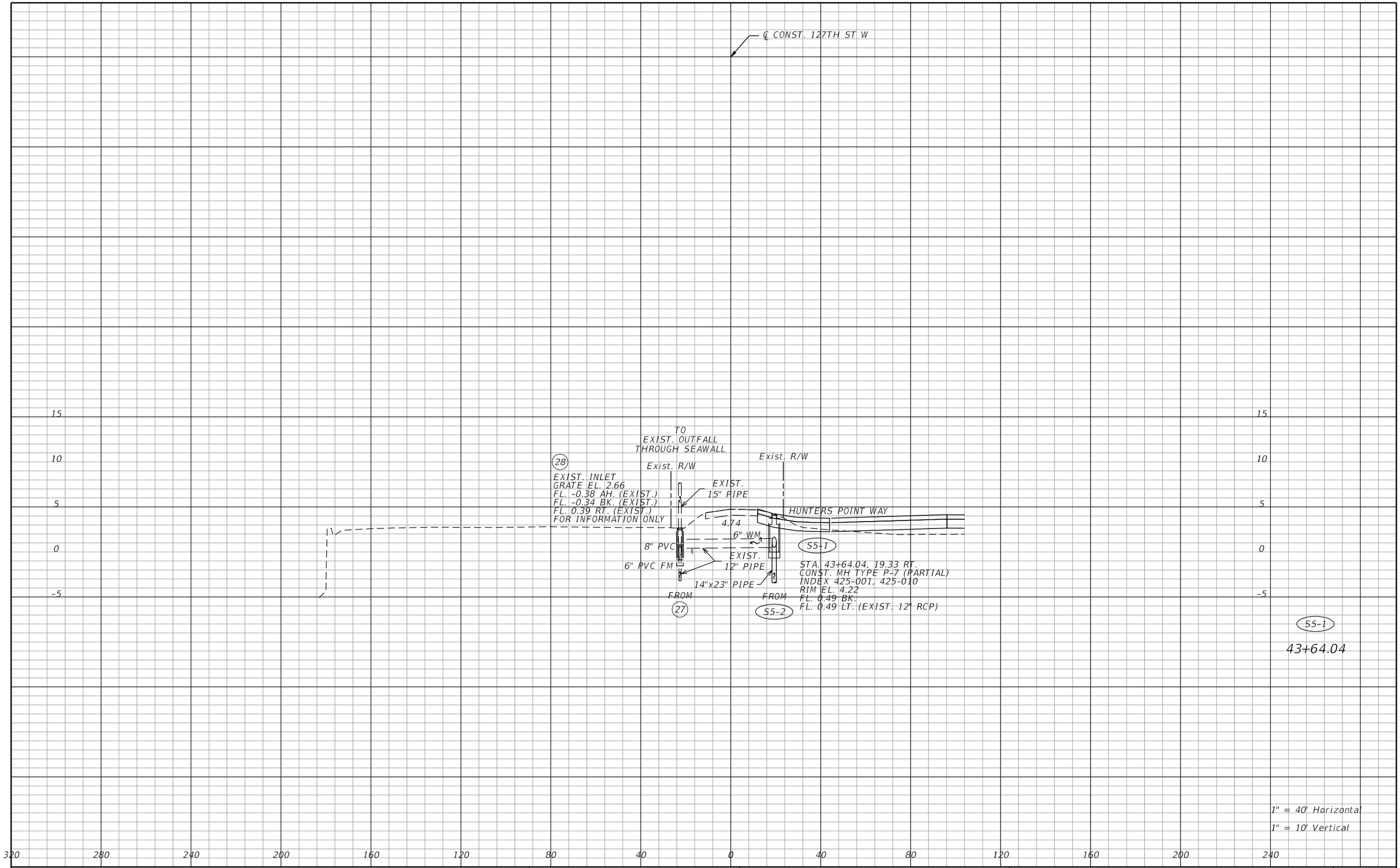
LISANDRO A. ZAPATA, P.E.
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H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
127TH ST W

SHEET NO. 90



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REVISIONS			
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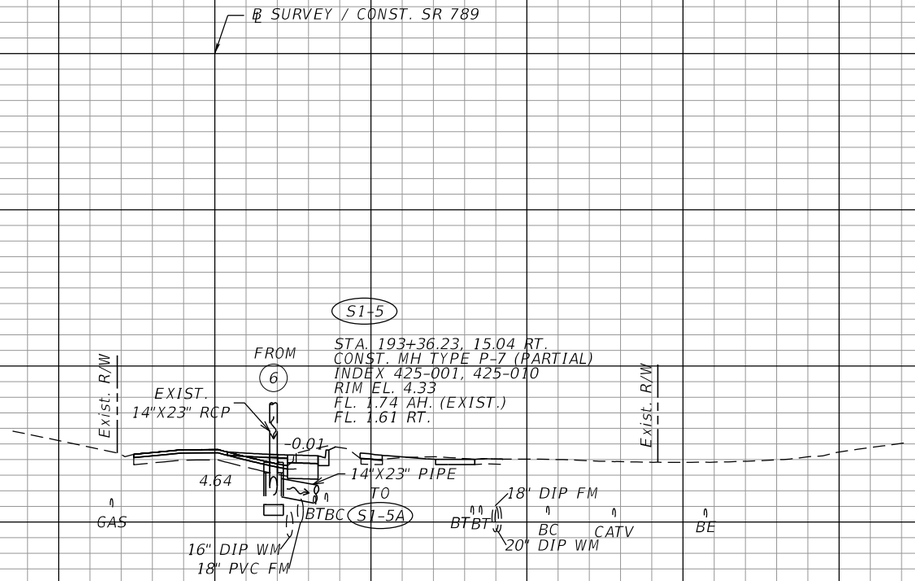
LISANDRO A. ZAPATA, P.E.
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H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
127TH ST W

SHEET NO. 91



S1-5

193+36.23

1" = 40' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LISANDRO A. ZAPATA, P.E.
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
SR 789 (GULF DR)

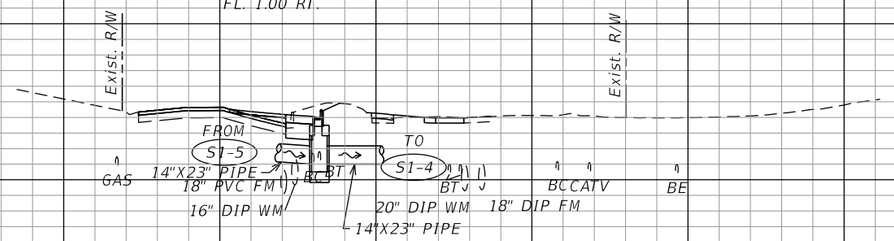
SHEET NO. 92

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℄ SURVEY / CONST. SR 789

S1-5A

STA. 193+39.21, 25.21 RT.
CONST. CURB INLET TYPE 9
(ALT. A) (4' DIA.)
INDEX 425-024
EOP EL. 4.26
FL. 1.00 LT.
FL. 1.00 RT.



S1-5A
193+39.21

1" = 40' Horizontal
1" = 10' Vertical

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REVISIONS			
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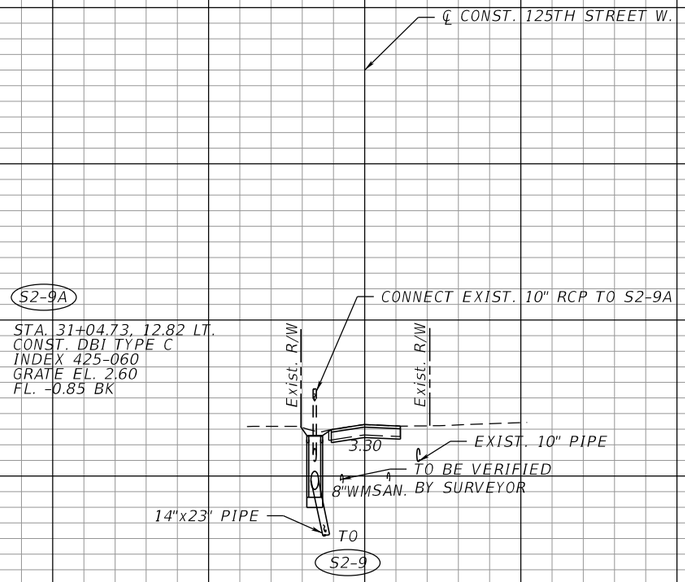
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
SR 789 (GULF DR)

SHEET NO. 93



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REVISIONS			
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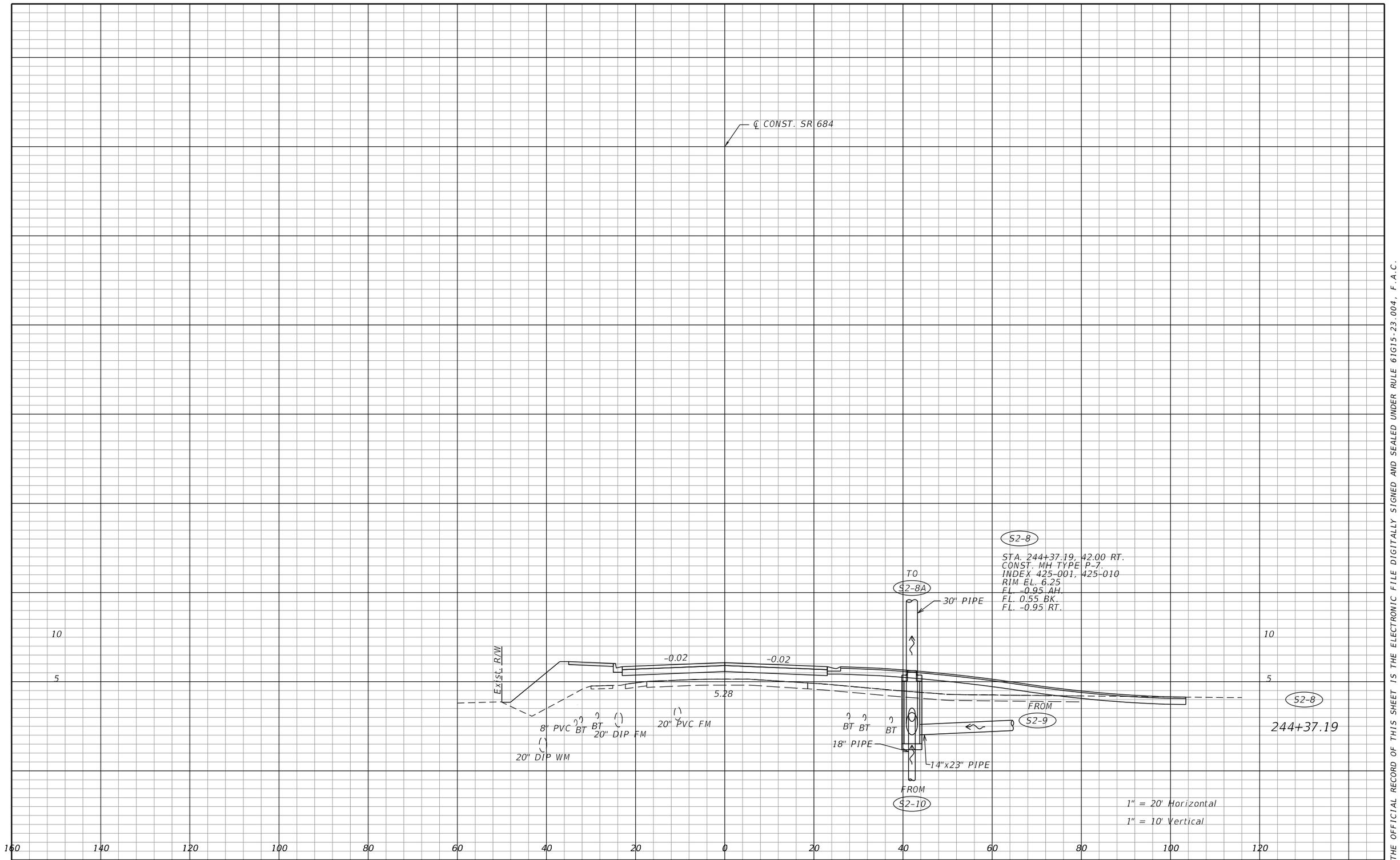
LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE STRUCTURES
125TH ST W

SHEET NO. 94



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

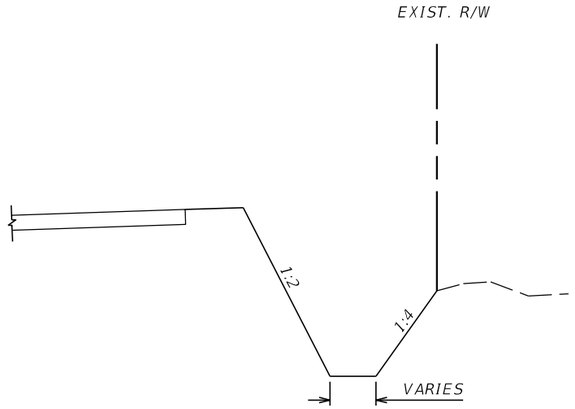
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

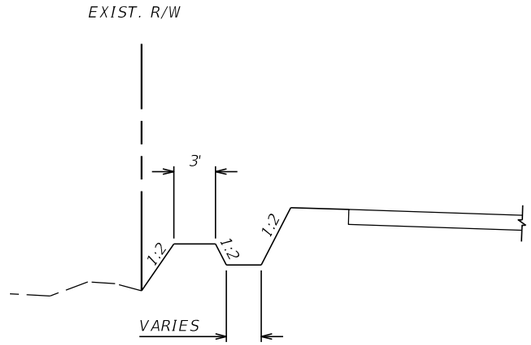
DRAINAGE STRUCTURES
125TH ST W

SHEET NO. 95

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SWALE TYPICAL SECTION:
CL CONST SR 684
NTS



SWALE TYPICAL SECTION:
CL CONST HUNTERS POINT WAY
NTS

Swale Profile Information

Side	Alignment	DPI Station	Centerline Offset (Ft)	Elevation (Ft)	DPI Station	Centerline Offset (Ft)	Elevation (Ft)	Slope (%)	Bottom Width (Ft)	Lining	Remarks
RT	CL CONST SR 684	244+62.00	42.47	2.75	245+00.00	46.28	2.50	0.66%	5	SOD	
RT	CL CONST SR 684	245+00.00	46.28	2.50	245+50.00	46.06	2.00	1.00%	2	SOD	
RT	CL CONST SR 684	245+50.00	46.06	2.00	246+00.00	45.94	1.63	0.74%	2	SOD	S2-7 SLOT
LT	CL CONST HUNTERS POINT WAY	15+75.00	30.62	2.20	16+00.00	30.62	2.14	0.24%	3	SOD	
LT	CL CONST HUNTERS POINT WAY	16+00.00	30.62	2.14	16+47.29	34.35	2.02	0.25%	1	SOD	S5-4 GRATE

REVISIONS

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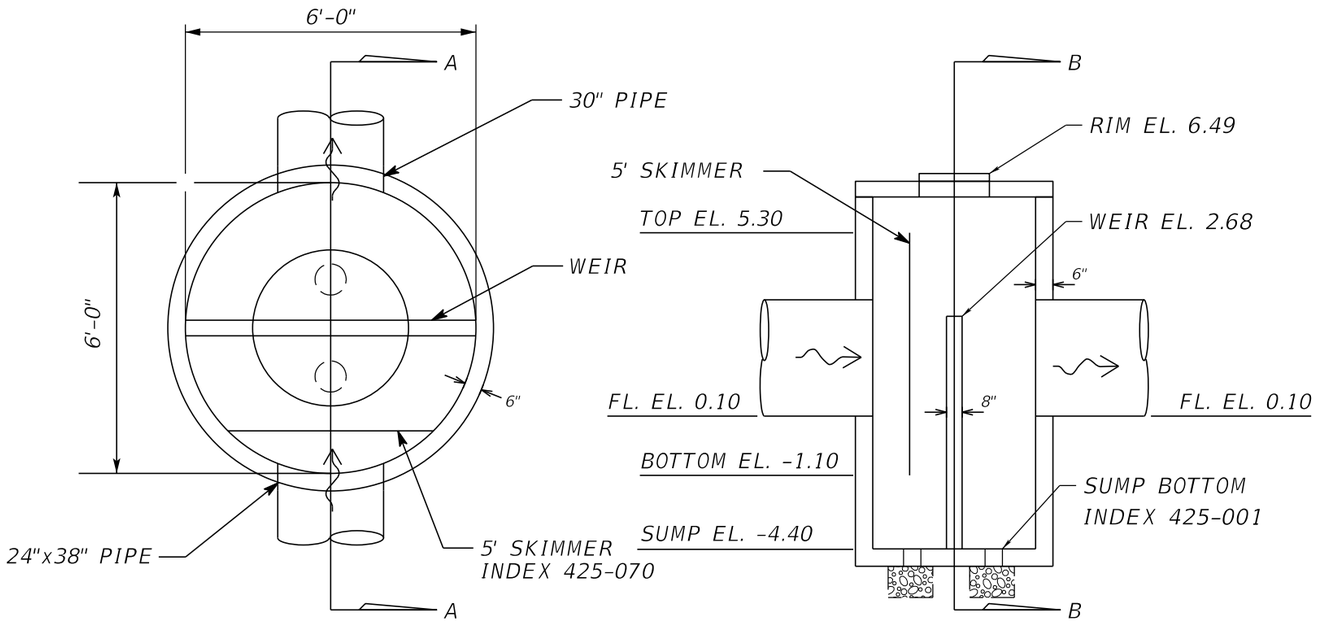
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE DETAILS (01)

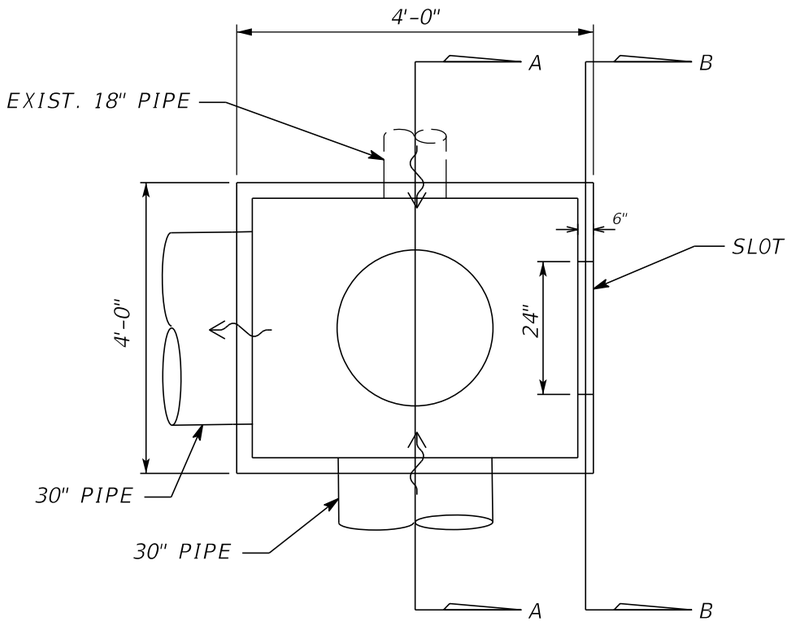
SHEET NO. 96

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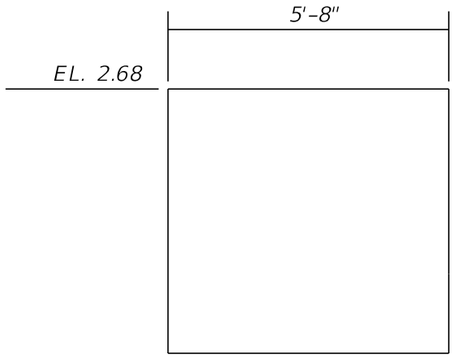


PLAN

SECTION A-A



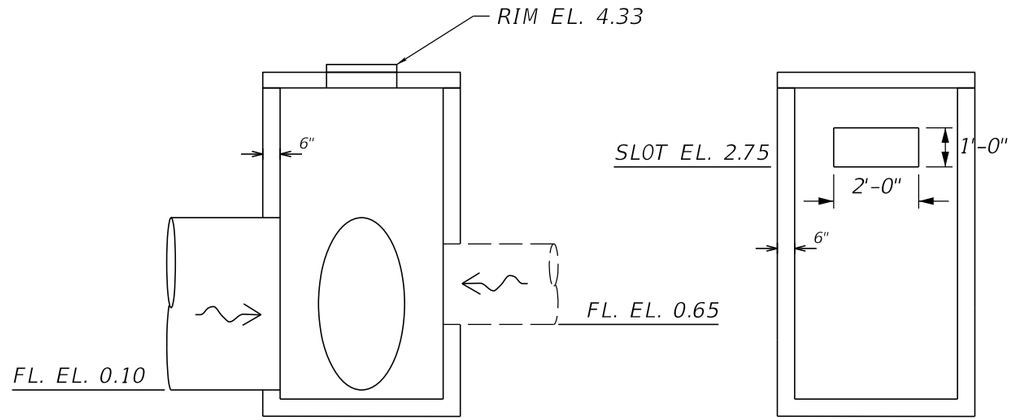
PLAN



SECTION B-B (WEIR)

S1-2 SPECIAL MANHOLE
CONTROL STRUCTURE FOR EXISTING POND
(SWFWMD ERP NO. 15787.000)

NTS



SECTION A-A

SECTION B-B

S2-7 SPECIAL MANHOLE

NTS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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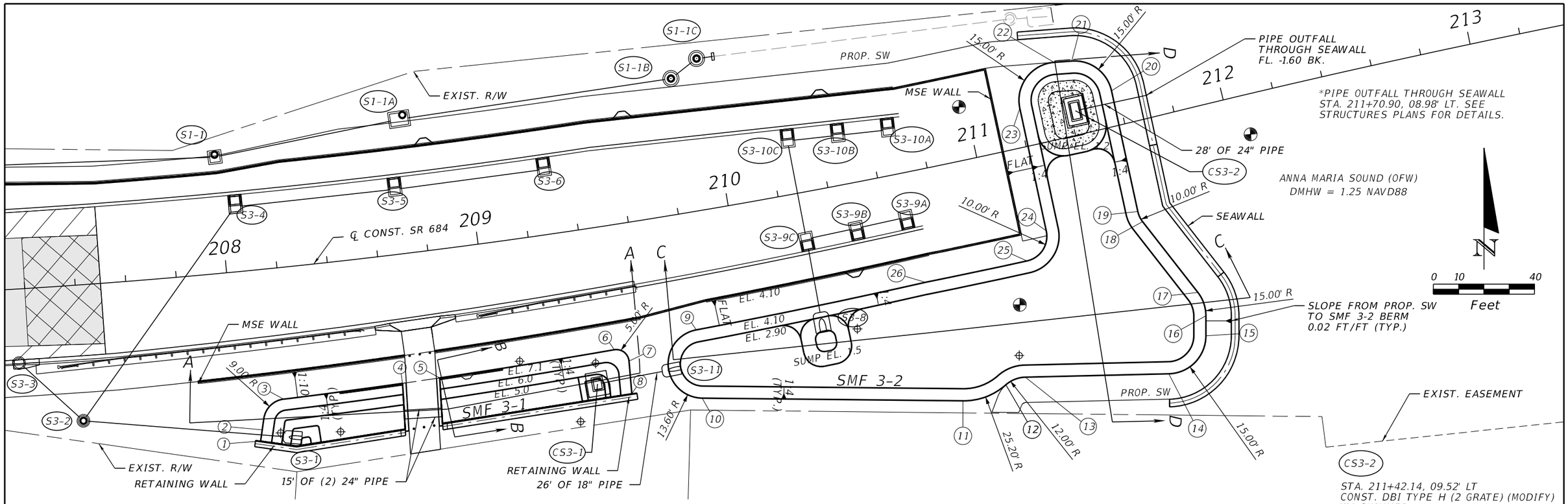
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

DRAINAGE DETAILS (02)

SHEET NO. 97

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SMF 3-1			
No.	STA.	OFFSET	BASELINE
1	208+06.99	67.45	CL CONST. SR 684
2	208+08.02	63.07	CL CONST. SR 684
3	208+17.40	51.84	CL CONST. SR 684
4	208+60.89	50.84	CL CONST. SR 684
5	208+78.51	49.04	CL CONST. SR 684
6	209+47.01	46.95	CL CONST. SR 684
7	209+52.01	52.27	CL CONST. SR 684
8	209+51.05	67.11	CL CONST. SR 684

SMF 3-2			
No.	STA.	OFFSET	BASELINE
9	209+79.51	46.20	CL CONST. SR 684
10	209+77.51	73.19	CL CONST. SR 684
11	210+75.41	92.95	CL CONST. SR 684
12	210+92.69	90.20	CL CONST. SR 684
13	211+00.55	88.86	CL CONST. SR 684
14	211+54.16	100.04	CL CONST. SR 684
15	211+71.27	88.88	CL CONST. SR 684
16	211+73.09	81.22	CL CONST. SR 684
17	211+72.22	71.49	CL CONST. SR 684
18	211+57.87	39.21	CL CONST. SR 684
19	211+56.98	34.86	CL CONST. SR 684
20	211+57.91	13.91	CL CONST. SR 684
21	211+45.12	28.98	CL CONST. SR 684
22	211+38.20	30.02	CL CONST. SR 684
23	211+20.85	15.34	CL CONST. SR 684
24	211+20.52	34.17	CL CONST. SR 684
25	211+10.65	44.12	CL CONST. SR 684
26	210+70.35	44.12	CL CONST. SR 684

CS3-1

STA. 209+38.56, 56.52' RT
CONST. DBI TYPE D (MODIFY)
W/ SKIMMER
INDEX NO. 425-052, 425-070
GRATE EL. 6.41
FL. 3.10 AH.

S3-11

STA. 209+66.24, 60.21' RT
CONST. CD MES (1:4)
INDEX NO. 430-021
FL. 2.90 BK.

CS3-2

STA. 211+42.14, 09.52' LT
CONST. DBI TYPE H (2 GRATE) (MODIFY)
W/ SKIMMER
INDEX NO. 425-052, 425-070
GRATE EL. 3.15
FL. -1.50 AH.

SEE POND DETAIL (03)
FOR POND SECTIONS AND CONTROL STRUCTURE DETAILS

SMF 3-1 (DRY)
BOTTOM EL. 5.00
OVERFLOW EL. 6.41
25YR/24HR DHW 6.55

SMF 3-2 (DRY)
BOTTOM EL. 2.90
OVERFLOW EL. 3.15
25YR/24HR DHW 3.42

GEOTECHNICAL REQUIREMENTS FOR SMF 3-1 & SMF 3-2:

1). FOLLOWING CLEARING AND GRUBBING OPERATIONS, THE EXPOSED SUBGRADE SHALL BE ROOT RAKED TO A DEPTH OF ONE FOOT AND SHALL REMAIN IN AN UNCOMPACTED STATE BENEATH ALL PONDS FOR THE PORTION OF THE SUBGRADE THAT IS NOT LOCATED WITHIN THE 1V:2H CONTROL LINE (PER FDOT STANDARD PLANS, INDEX 120-001). THE PONDS SHALL THEN BE BACKFILLED (AS REQUIRED) TO THE PROPOSED POND BOTTOM ELEVATION WITH NON-COMPACTED SELECT A-3 MATERIAL MEETING THE REQUIREMENTS SPECIFIED IN NOTE NO. 2. THE LIMITS OF THE SPECIFIED A-3 SAND SHALL EXTEND FROM THE 1V:2H CONTROL LINE (PER FDOT STANDARD PLANS, INDEX 120-001) TO THE LIMITS OF CONSTRUCTION. THIS MATERIAL SHALL BE PLACED IN A LOOSE UNCOMPACTED STATE AND SHALL NOT BE COMPACTED. CARE SHALL BE TAKEN DURING CONSTRUCTION TO MINIMIZE THE USE OF HEAVY EQUIPMENT IN THE AREA OF THE PONDS TO AVOID COMPACTION OF THE SOILS.

2). THE SELECT A-3 MATERIAL UTILIZED AS BACKFILL WITHIN THE FILL ENVELOPE DESCRIBED IN NOTE 1 SHALL CONSIST OF A-3 SAND WITH LESS THAN 30% PASSING THE NO. 100 SIEVE AND LESS THAN 5% PASSING THE NO. 200 SIEVE AND SHALL BE DEMONSTRATED TO HAVE A MINIMUM LABORATORY PERMEABILITY OF 2 FEET/DAY WHEN TESTED IN ACCORDANCE WITH AASHTO T-215 ON SOILS COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR (AASHTO T-99, METHOD C).

3). ONCE FINAL GRADING OF THE PONDS IS COMPLETE, THE BOTTOM OF THE PONDS SHALL BE SCARIFIED TO A DEPTH OF ONE FOOT BELOW THE BOTTOM ELEVATION WITH LIGHT EARTH MOVING EQUIPMENT TO LOOSEN THE SURFACE SOILS. AFTER THE PONDS HAVE BEEN SCARIFIED, A MINIMUM OF ONE DOUBLE RING INFILTRATION TEST (ASTM D3385/MINIMUM 4-HOUR TEST) SHALL BE PERFORMED EVERY 500 LINEAR FEET AT THE BOTTOM OF EACH STORMWATER POND SYSTEM. THE TEST SHALL BE CONDUCTED BY A PREQUALIFIED GEOTECHNICAL FIRM AT LOCATIONS APPROVED BY THE ENGINEER. THE TEST IS TO VERIFY THE INFILTRATION CAPACITY OF THE SOILS. THE INFILTRATION RATE SHALL BE NO LESS THAN THE FOLLOWING DESIGN VALUE: 2 FEET PER DAY (STABILIZED INFILTRATION RATE). SHOULD THE TEST RESULTS INDICATE THAT THE INFILTRATION RATES DO NOT MEET THE SPECIFIED CRITERIA, AN ACTION PLAN MUST BE PREPARED FOR COMPLETING THE REMEDIATION OF THE POND SUCH THAT THE REQUIRED INFILTRATION RATE IS MET.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

POND DETAIL (01)

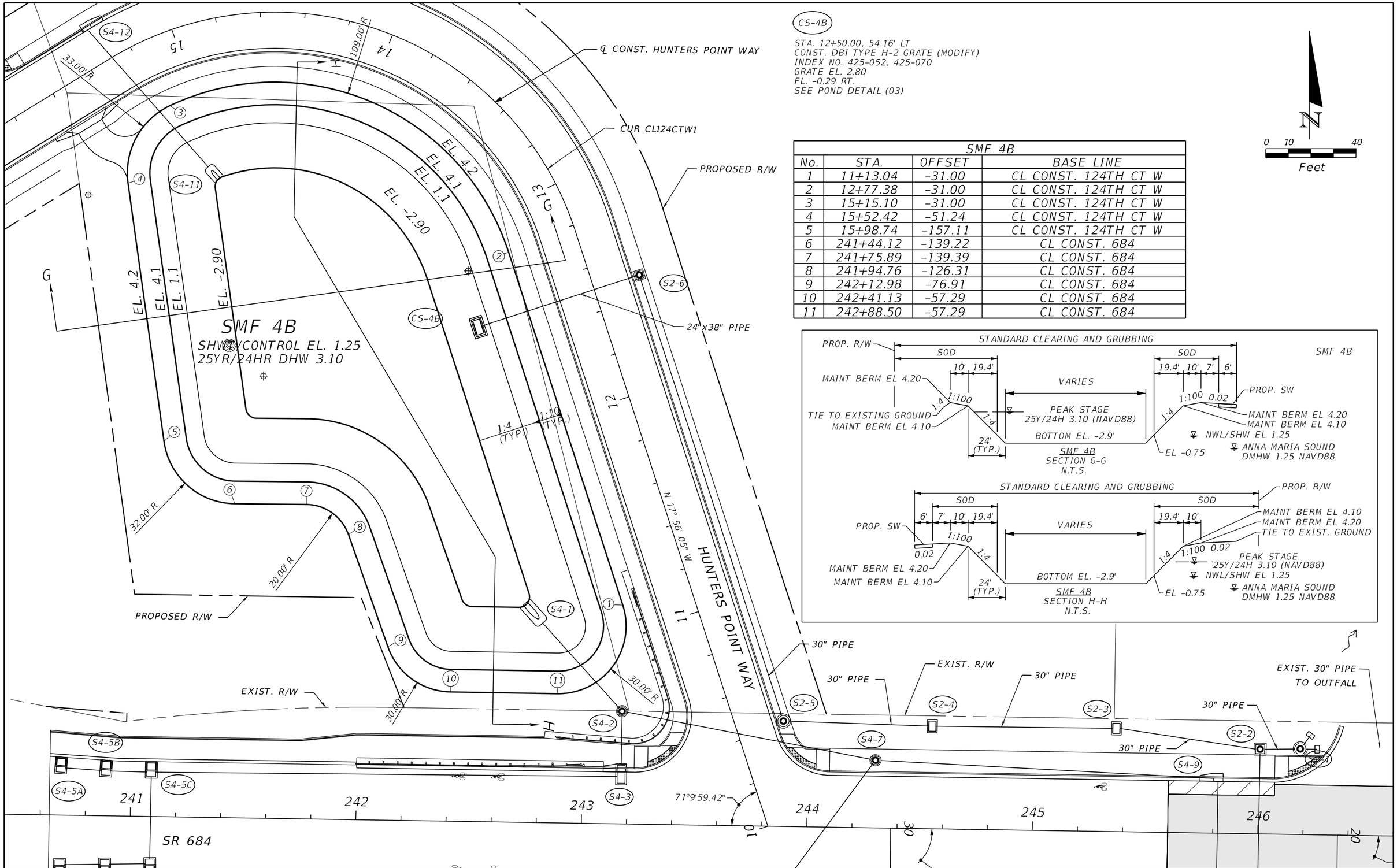
SHEET NO. 98

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CS-4B

STA. 12+50.00, 54.16' LT
CONST. DBI TYPE H-2 GRATE (MODIFY)
INDEX NO. 425-052, 425-070
GRATE EL. 2.80
FL. -0.29 RT.
SEE POND DETAIL (03)

SMF 4B			
No.	STA.	OFFSET	BASE LINE
1	11+13.04	-31.00	CL CONST. 124TH CT W
2	12+77.38	-31.00	CL CONST. 124TH CT W
3	15+15.10	-31.00	CL CONST. 124TH CT W
4	15+52.42	-51.24	CL CONST. 124TH CT W
5	15+98.74	-157.11	CL CONST. 124TH CT W
6	241+44.12	-139.22	CL CONST. 684
7	241+75.89	-139.39	CL CONST. 684
8	241+94.76	-126.31	CL CONST. 684
9	242+12.98	-76.91	CL CONST. 684
10	242+41.13	-57.29	CL CONST. 684
11	242+88.50	-57.29	CL CONST. 684



REVISIONS			
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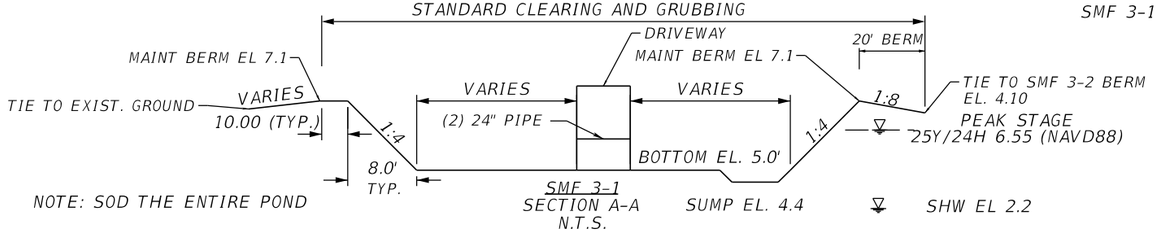
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SR 684	MANATEE	430204-2-52-01

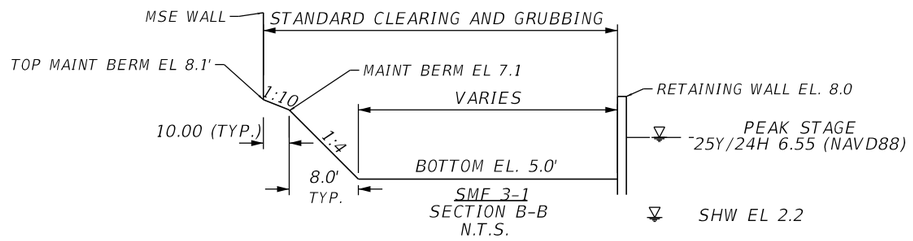
POND DETAIL (02)

SHEET NO. 99

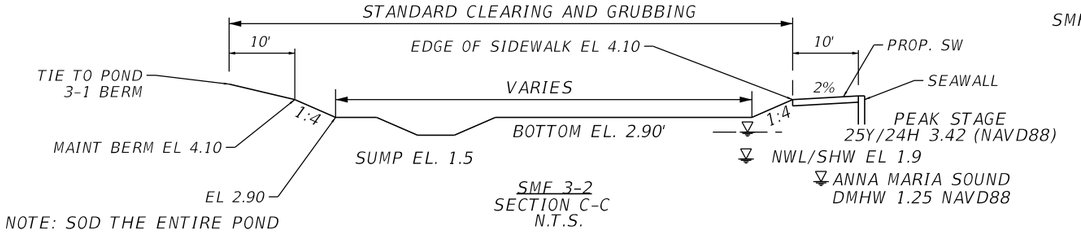
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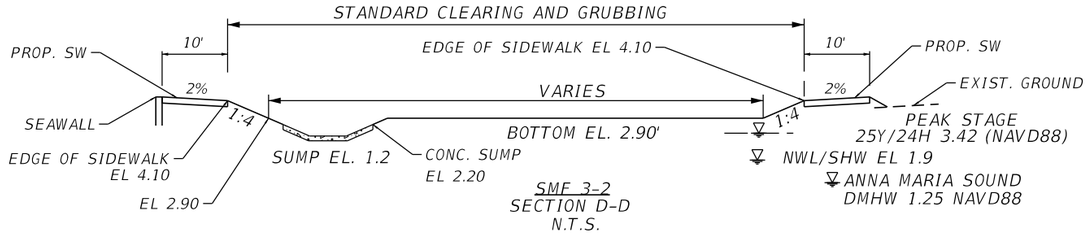
SMF 3-1

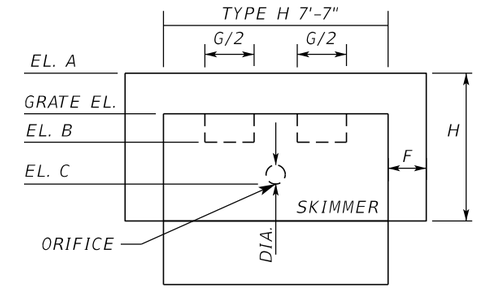




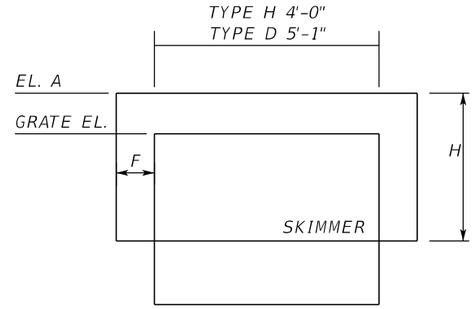
SMF 3-2





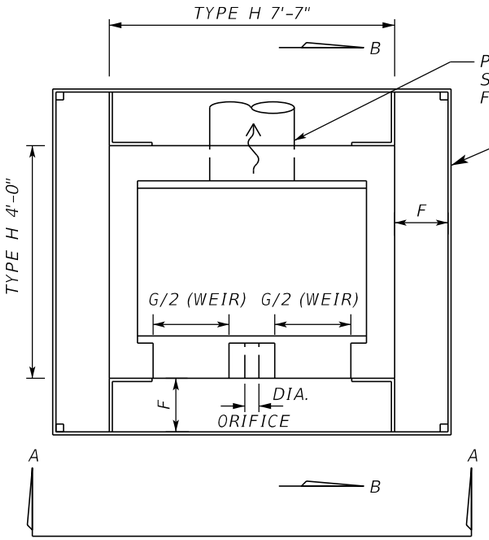


SECTION A-A (WET PONDS)
N.T.S.

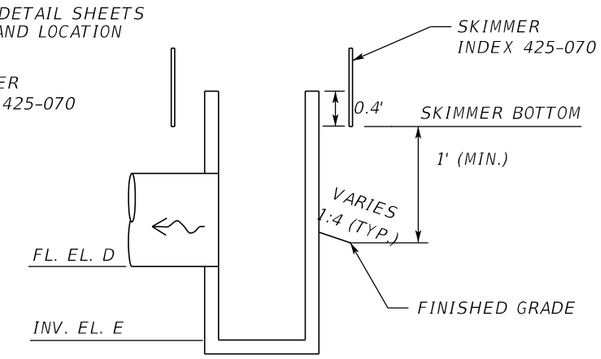


SECTION A-A (DRY PONDS)
N.T.S.

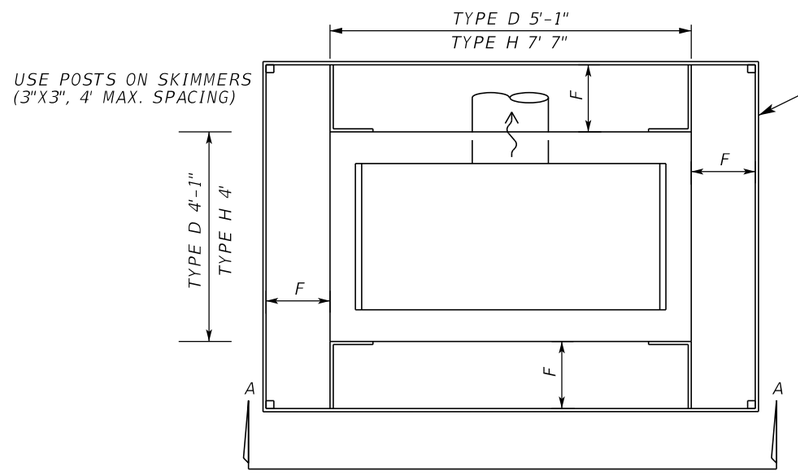
GRATES ON ALL CONTROL STRUCTURES



PLAN WET POND
CONTROL STRUCT.
N.T.S.



SECTION B-B
N.T.S.



PLAN DRY POND
CONTROL STRUCT.
N.T.S.

CONTROL STRUCTURE: DITCH BOTTOM INLET (MODIFY)													
CONTROL STRUCTURE	POND	TYPE	ELEVATION						DIMENSION				NOTE
			GRATE	A	B	C	D	E	DIA.	F	G	H	
CS3-1	SMF 3-1	D	6.41	6.90	N/A	N/A	3.10	2.60	N/A	2.00'	N/A	12"	USE POSTS
CS3-2	SMF 3-2	H 2 GRATE	3.15	3.65	N/A	N/A	-1.50	-2.00	N/A	2.20'	N/A	12"	USE POSTS
CS-4B	SMF 4B	H 2 GRATE	2.80	3.10	1.80	1.25	-0.29	-0.79	1.44"	0.67'	3.90'	28"	USE POSTS

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

POND DETAIL (03)

SHEET NO. 100

RIPRAP

5' SIDEWALK

SEAWALL

237

238

239

PT STA. 237+14.73

℄ CONST. SR 684

MISC. ASPHALT PAVEMENT

+00.73
38.58' LT

+00.77
36.58' LT

+36.38
18.00' L

+02.56
36.13' RT

+13.46
39.04' RT

+14.56
47.06' RT

℄ CONST. 127TH ST. W.

40
N 71° 39' 43" E

N

0 5 20
Feet

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

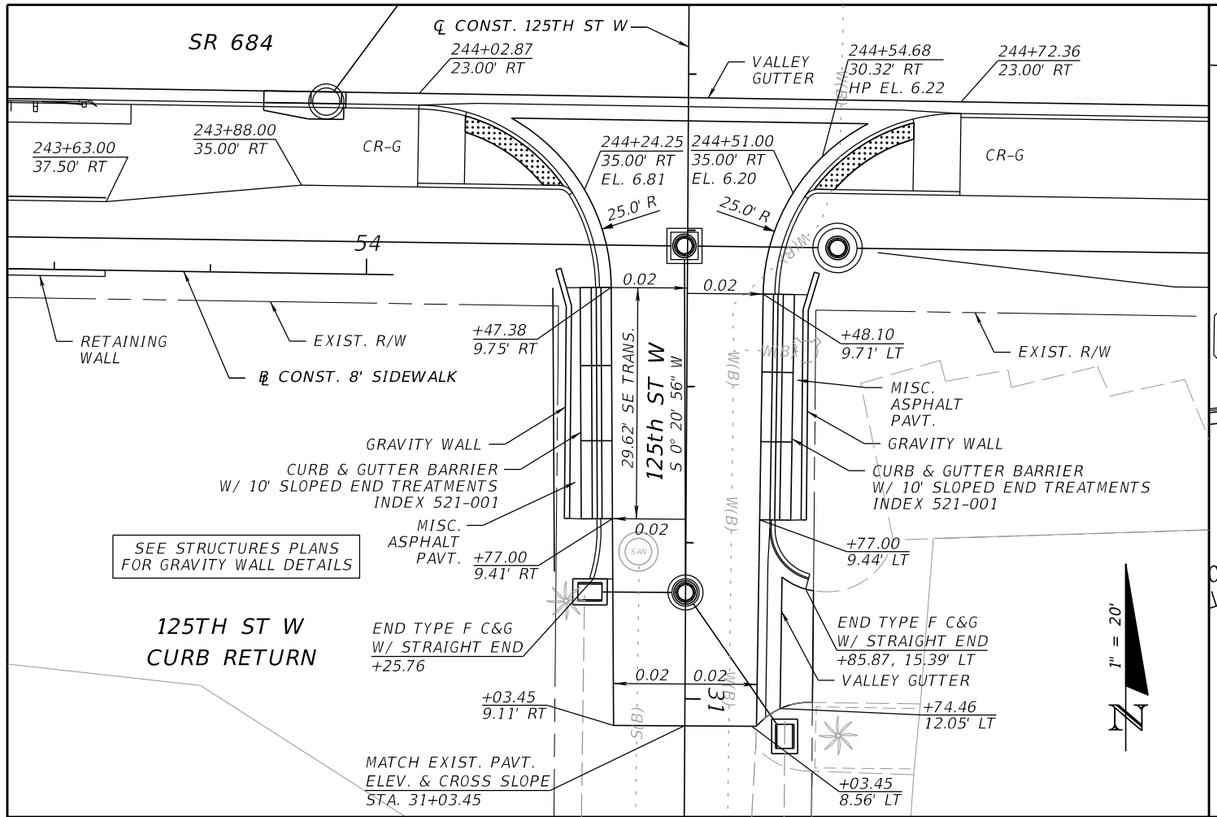
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

GRADING PLAN

SHEET NO. 101



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

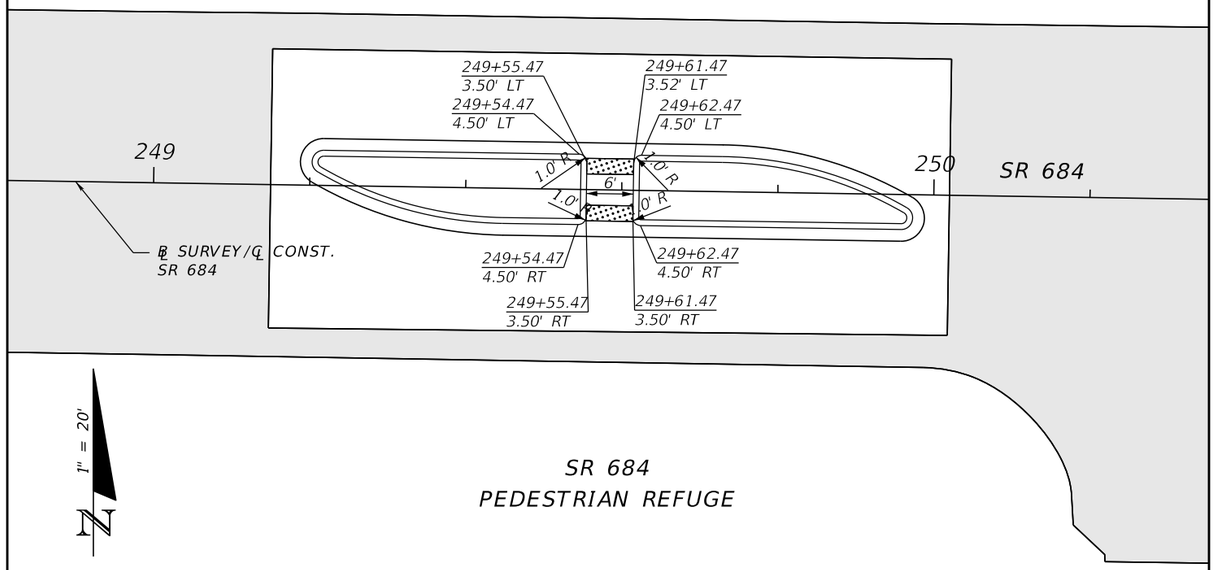
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

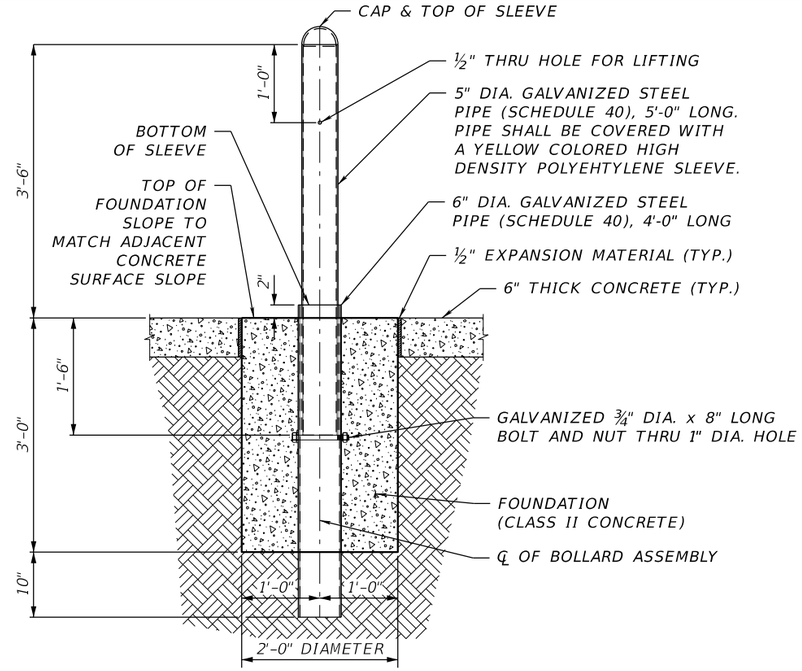
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SPECIAL DETAILS

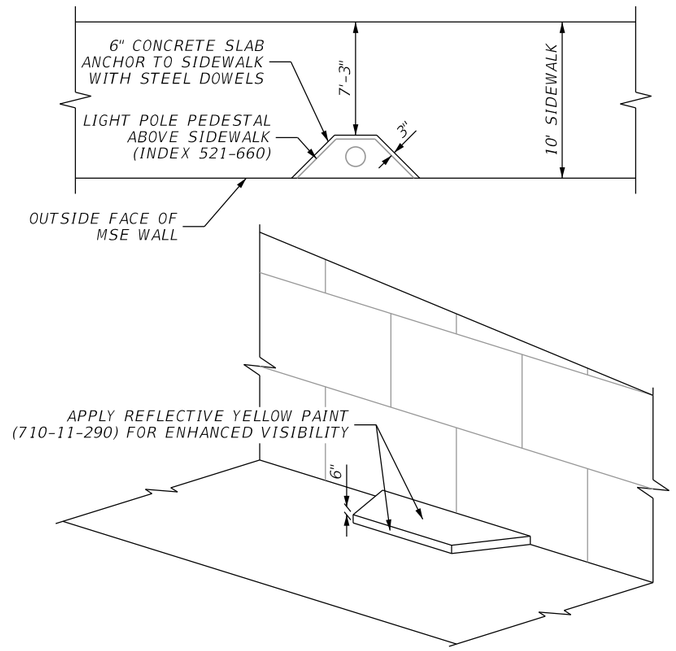
SHEET NO. 102



SR 684
PEDESTRIAN REFUGE



REMOVABLE BOLLARD DETAIL
N.T.S.



10' SIDEWALK CURB

CONSTRUCT AT LOCATIONS WHERE VERTICAL CLEARANCE FROM SIDEWALK TO LIGHT POLE PEDESTAL < 7' MIN.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SPECIAL DETAILS

SHEET NO. 103

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

DATE OF SURVEY: DECEMBER 2019 - MAY 2025
SURVEY MADE BY: TIERRA, INC.
SUBMITTED BY: THOMAS E. MUSGRAVE, P.E.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

DISTRICT: 1
ROAD NO.: SR 684
COUNTY: MANATEE

FINANCIAL PROJECT ID : 430204-2-52-01
PROJECT NAME: SR 684 (CORTEZ ROAD) FROM SR 789 (GULF DRIVE) TO 123RD STREET WEST

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA. : 205+05.63 SURVEY ENDS STA. : 250+80.00 REFERENCE: ℄ CONST. SR 684

	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)						ATTERBERG LIMITS (%)					CORROSION TEST RESULTS				
STRATUM NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	DESCRIPTION	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	2	0.7-1.8	2	17-287	49	32-100	26-99	21-92	9-36	1-8	--	--	--	A-3/A-1-a	GRAY TO BROWN SAND TO SAND WITH SILT, OCCASIONALLY WITH SHELL AND/OR LIMEROCK FRAGMENTS	3	310-18,000	45-45,000	450-660	7.9-8.6
2	--	--	--	--	1	-	--	--	--	5	--	--	--	A-3	GRAY TO BROWN SHELLY SAND TO SAND WITH SILT	--	--	--	--	--
3	--	--	1	22	5	100	99	92	30	11-15	1	NP	NP	A-2-4	BROWN SILTY SAND, OCCASIONALLY WITH SHELL AND/OR LIMEROCK FRAGMENTS	--	--	--	--	--
4	--	--	1	17	6	--	--	--	--	16-21	1	NP	NP	A-2-4	LIGHT GRAY TO GRAY SILTY SAND	--	--	--	--	--
5	--	--	4	25-37	6	--	--	--	--	36-75	4	33-47	14-25	A-4/A-6/ A-7-6	GREEN TO GRAY TO BROWN SILTY SAND TO CLAYEY SAND TO SANDY CLAY	--	--	--	--	--
6	--	--	1	40	1	--	--	--	--	49	1	53	30	A-7-6	GREEN TO GRAY CLAY	--	--	--	--	--
7	6	2.2-5.9	6	19-32	6	100	99	92	34	4-7	--	--	--	A-3	DARK BROWN SAND TO SAND WITH SILT WITH TRACE ORGANICS	--	--	--	--	--

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

▼ - WATER TABLE ENCOUNTERED

▽ - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE

▽+ - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE IS AT OR ABOVE THE EXISTING GRADE

NOTES:

1. THE MATERIAL FROM STRATA 1, 2 AND 3 (A-3/A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
2. THE MATERIAL FROM STRATUM 4 (A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
3. THE MATERIAL FROM STRATUM 5 (A-4/A-6/A-7-6) IS PLASTIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
4. THE MATERIAL FROM STRATUM 6 (A-7-6) IS HIGH PLASTIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
5. THE MATERIAL FROM STRATUM 7 (A-3) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001. HOWEVER, THIS MATERIAL MAY NOT BE USED IN THE SUBGRADE PORTION OF THE ROADBED DUE TO ITS ORGANIC CONTENT.
6. CEMENTED SANDS, SAND WITH SHELL AND SHELLY SAND WERE ENCOUNTERED ALONG PORTIONS OF THE ROADWAY ALIGNMENT AND WITHIN THE PROPOSED PONDS. EXCAVATIONS INTO AND/OR THROUGH THESE MATERIALS WILL BE DIFFICULT AND MAY REQUIRE THE MOBILIZATION OF SPECIALIZED EQUIPMENT. VARIATIONS IN THE DEPTH AND RELATIVE DENSITY OF THESE MATERIALS SHOULD BE ANTICIPATED.
7. THE "--" INDICATES AN UNMEASURED PARAMETER.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

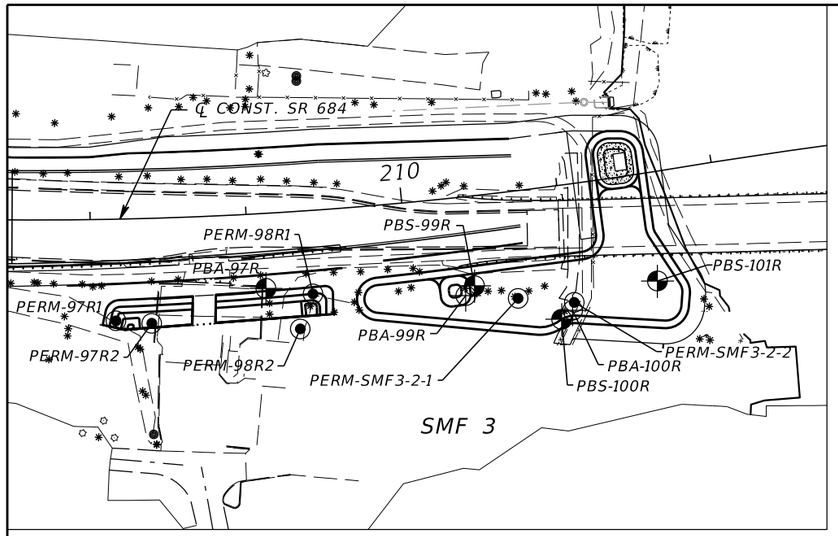
THOMAS E. MUSGRAVE, JR., P.E.
P.E. LICENSE NUMBER 81669
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637

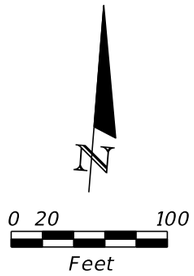
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

ROADWAY SOIL SURVEY

SHEET NO. 104





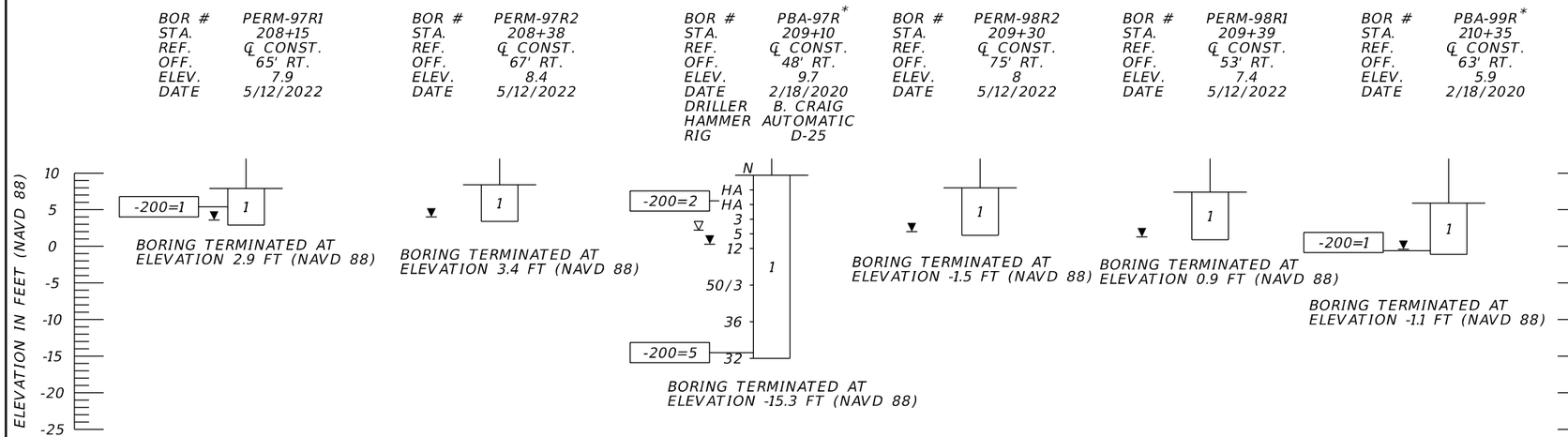
BORING LOCATION PLAN

LEGEND

1.	GRAY TO BROWN SAND TO SAND WITH SILT, OCCASIONALLY WITH SHELL AND/OR LIMEROCK FRAGMENTS (A-3/A-1-a)
2.	GRAY TO BROWN SHELLY SAND TO SAND WITH SILT (A-3)
3.	BROWN SILTY SAND, OCCASIONALLY WITH SHELL AND/OR LIMEROCK FRAGMENTS (A-2-4)
4.	LIGHT GRAY TO GRAY SILTY SAND (A-2-4)
5.	GREEN TO GRAY TO BROWN SILTY SAND TO CLAYEY SAND TO SANDY CLAY (A-4/A-6/A-7-6)
6.	GREEN TO GRAY CLAY (A-7-6)
7.	DARK BROWN SAND TO SAND WITH SILT WITH TRACE ORGANICS (A-3)
A-3	AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
N	NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
50/4	NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION
HA	HAND AUGERED TO VERIFY UTILITY CLEARANCE
-200	PERCENT PASSING #200 SIEVE
NAVD 88	NORTH AMERICAN VERTICAL DATUM OF 1988
⊕	APPROXIMATE SPT BORING LOCATION
⊕	APPROXIMATE AUGER BORING LOCATION
◉	APPROXIMATE PEREMEABILITY TEST AND HAND AUGER BORING LOCATION
▽	ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
▼	GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

℄ CONST. CENTERLINE OF CONSTRUCTION OF SR 684

NOTE: THE BORING LOCATIONS AND ELEVATIONS DENOTED WITH AN ASTERISK(*) WERE PROVIDED BY THE PROJECT SURVEYOR. THE REMAINING BORING LOCATIONS AND ELEVATIONS WERE ESTIMTED USING HAND-HELD, NON-SURVEY GRADE GPS DEVICES WITH A MANUFACTURER'S REPORTED ACCURACY OF +/- 10 FEET.



	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

SMF 3

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

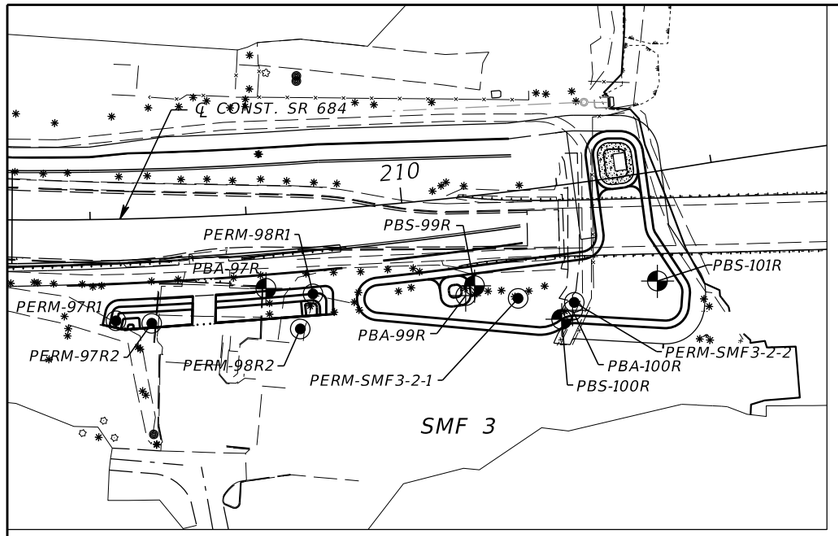
THOMAS E. MUSGRAVE, JR., P.E.
P.E. LICENSE NUMBER 81669
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

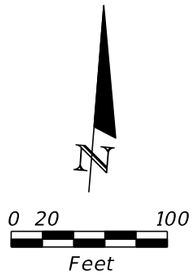
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

POND SOIL PROFILES (1)

SHEET NO. 105



BORING LOCATION PLAN



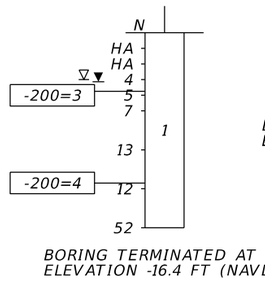
LEGEND

1.	GRAY TO BROWN SAND TO SAND WITH SILT, OCCASIONALLY WITH SHELL AND/OR LIMEROCK FRAGMENTS (A-3/A-1-a)
2.	GRAY TO BROWN SHELLY SAND TO SAND WITH SILT (A-3)
3.	BROWN SILTY SAND, OCCASIONALLY WITH SHELL AND/OR LIMEROCK FRAGMENTS (A-2-4)
4.	LIGHT GRAY TO GRAY SILTY SAND (A-2-4)
5.	GREEN TO GRAY TO BROWN SILTY SAND TO CLAYEY SAND TO SANDY CLAY (A-4/A-6/A-7-6)
6.	GREEN TO GRAY CLAY (A-7-6)
7.	DARK BROWN SAND TO SAND WITH SILT WITH TRACE ORGANICS (A-3)
A-3	AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
N	NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
50/4	NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION
HA	HAND AUGERED TO VERIFY UTILITY CLEARANCE
-200	PERCENT PASSING #200 SIEVE
NAVD 88	NORTH AMERICAN VERTICAL DATUM OF 1988
⊕	APPROXIMATE SPT BORING LOCATION
⊕	APPROXIMATE AUGER BORING LOCATION
◉	APPROXIMATE PEREMEABILITY TEST AND HAND AUGER BORING LOCATION
▽	ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
▼	GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

℄ CONST. CENTERLINE OF CONSTRUCTION OF SR 684

NOTE: THE BORING LOCATIONS AND ELEVATIONS DENOTED WITH AN ASTERISK(*) WERE PROVIDED BY THE PROJECT SURVEYOR. THE REMAINING BORING LOCATIONS AND ELEVATIONS WERE ESTIMTED USING HAND-HELD, NON-SURVEY GRADE GPS DEVICES WITH A MANUFACTURER'S REPORTED ACCURACY OF +/- 10 FEET.

BOR # PBS-99R*
STA. 210+41
REF. ℄ CONST.
OFF. 57' RT.
ELEV. 8.6
DATE 2/13/2020
DRILLER B. CRAIG
HAMMER AUTOMATIC
RIG D-25



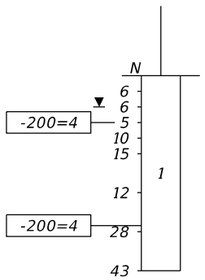
BORING TERMINATED AT ELEVATION -16.4 FT (NAVD 88)

BOR # PERM-SMF3-2-1
STA. 210+67
REF. ℄ CONST.
OFF. 68' RT.
ELEV. 6.3
DATE 10/2/2023



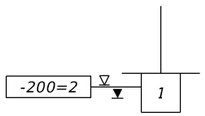
BORING TERMINATED AT ELEVATION 1.3 FT (NAVD 88)

BOR # PBS-100R*
STA. 210+92
REF. ℄ CONST.
OFF. 85' RT.
ELEV. 3.1
DATE 2/13/2020
DRILLER B. CRAIG
HAMMER AUTOMATIC
RIG D-25



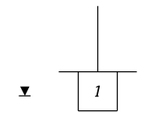
BORING TERMINATED AT ELEVATION -21.9 FT (NAVD 88)

BOR # PBA-100R*
STA. 211+00
REF. ℄ CONST.
OFF. 80' RT.
ELEV. 3.4
DATE 2/18/2020



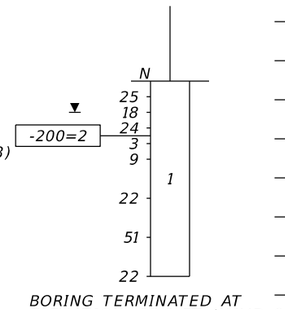
BORING TERMINATED AT ELEVATION -1.6 FT (NAVD 88)

BOR # PERM-SMF3-2-2
STA. 211+01
REF. ℄ CONST.
OFF. 76' RT.
ELEV. 3.6
DATE 10/2/2023

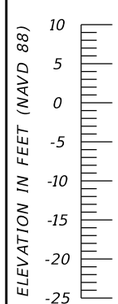


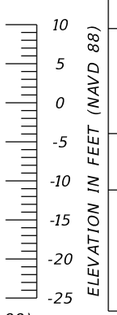
BORING TERMINATED AT ELEVATION -1.4 FT (NAVD 88)

BOR # PBS-101R*
STA. 211+54
REF. ℄ CONST.
OFF. 70' RT.
ELEV. 2.4
DATE 2/13/2020
DRILLER B. CRAIG
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED AT ELEVATION -22.6 FT (NAVD 88)





	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

SMF 3

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

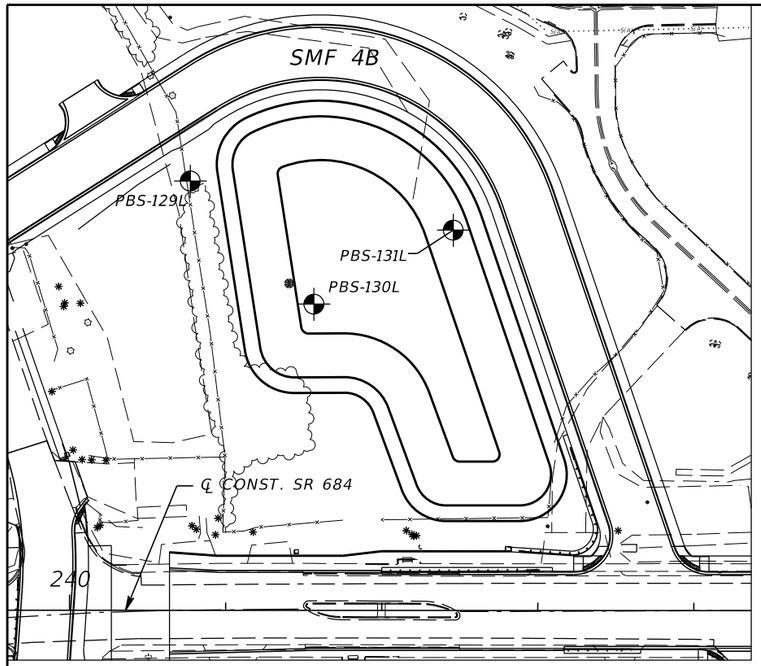
THOMAS E. MUSGRAVE, JR., P.E.
P.E. LICENSE NUMBER 81669
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637

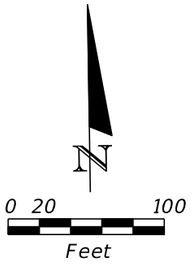
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

POND SOIL PROFILES (2)

SHEET NO. 106





BORING LOCATION PLAN

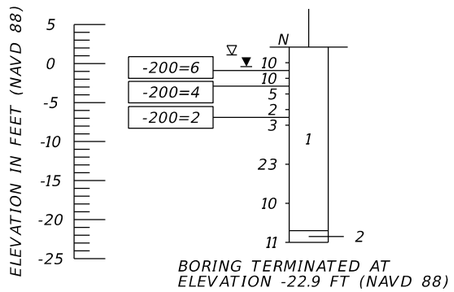
LEGEND

1.	GRAY TO BROWN SAND TO SAND WITH SILT, OCCASIONALLY WITH SHELL AND/OR LIMEROCK FRAGMENTS (A-3/A-1-a)
2.	GRAY TO BROWN SHELLY SAND TO SAND WITH SILT (A-3)
3.	BROWN SILTY SAND, OCCASIONALLY WITH SHELL AND/OR LIMEROCK FRAGMENTS (A-2-4)
4.	LIGHT GRAY TO GRAY SILTY SAND (A-2-4)
5.	GREEN TO GRAY TO BROWN SILTY SAND TO CLAYEY SAND TO SANDY CLAY (A-4/A-6/A-7-6)
6.	GREEN TO GRAY CLAY (A-7-6)
7.	DARK BROWN SAND TO SAND WITH SILT WITH TRACE ORGANICS (A-3)
A-3	AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
N	NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
50/4	NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION
HA	HAND AUGERED TO VERIFY UTILITY CLEARANCE
-200	PERCENT PASSING #200 SIEVE
NAVD 88	NORTH AMERICAN VERTICAL DATUM OF 1988
	APPROXIMATE SPT BORING LOCATION
	APPROXIMATE AUGER BORING LOCATION
	APPROXIMATE PEREMEABILITY TEST AND HAND AUGER BORING LOCATION
	ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
	GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
℄ CONST.	CENTERLINE OF CONSTRUCTION OF SR 684

NOTE: THE BORING LOCATIONS AND ELEVATIONS DENOTED WITH AN ASTERISK(*) WERE PROVIDED BY THE PROJECT SURVEYOR. THE REMAINING BORING LOCATIONS AND ELEVATIONS WERE ESTIMTED USING HAND-HELD, NON-SURVEY GRADE GPS DEVICES WITH A MANUFACTURER'S REPORTED ACCURACY OF +/- 10 FEET.

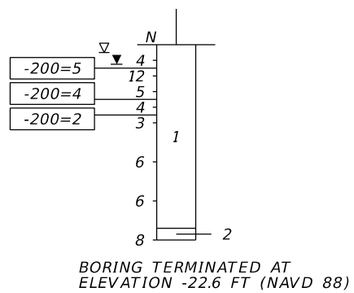
	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT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

BOR # PBS-129L*
STA. 240+77
REF. ℄ CONST.
OFF. 275' LT.
ELEV. 2.1
DATE 12/2/2019
DRILLER B. CRAIG
HAMMER AUTOMATIC
RIG D-25



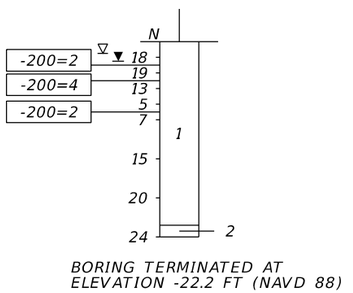
BORING TERMINATED AT ELEVATION -22.9 FT (NAVD 88)

BOR # PBS-130L*
STA. 241+56
REF. ℄ CONST.
OFF. 196' LT.
ELEV. 2.4
DATE 12/2/2019
DRILLER B. CRAIG
HAMMER AUTOMATIC
RIG D-25

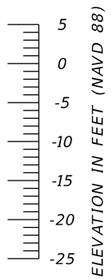


BORING TERMINATED AT ELEVATION -22.6 FT (NAVD 88)

BOR # PBS-131L*
STA. 242+46
REF. ℄ CONST.
OFF. 244' LT.
ELEV. 2.8
DATE 12/2/2019
DRILLER B. CRAIG
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED AT ELEVATION -22.2 FT (NAVD 88)



SMF 4B

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

THOMAS E. MUSGRAVE, JR., P.E.
P.E. LICENSE NUMBER 81669
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

POND SOIL PROFILES (3)

SHEET NO. 107

℄ CONST. HUNTERS POINT WAY

℄ CONST. 127TH STREET W.

℄ CONST. SR 684

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

1" = 50'

0 10 50

Feet

N 17° 49' 53" W

N 4° 47' 39" E

N 71° 39' 43" E

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

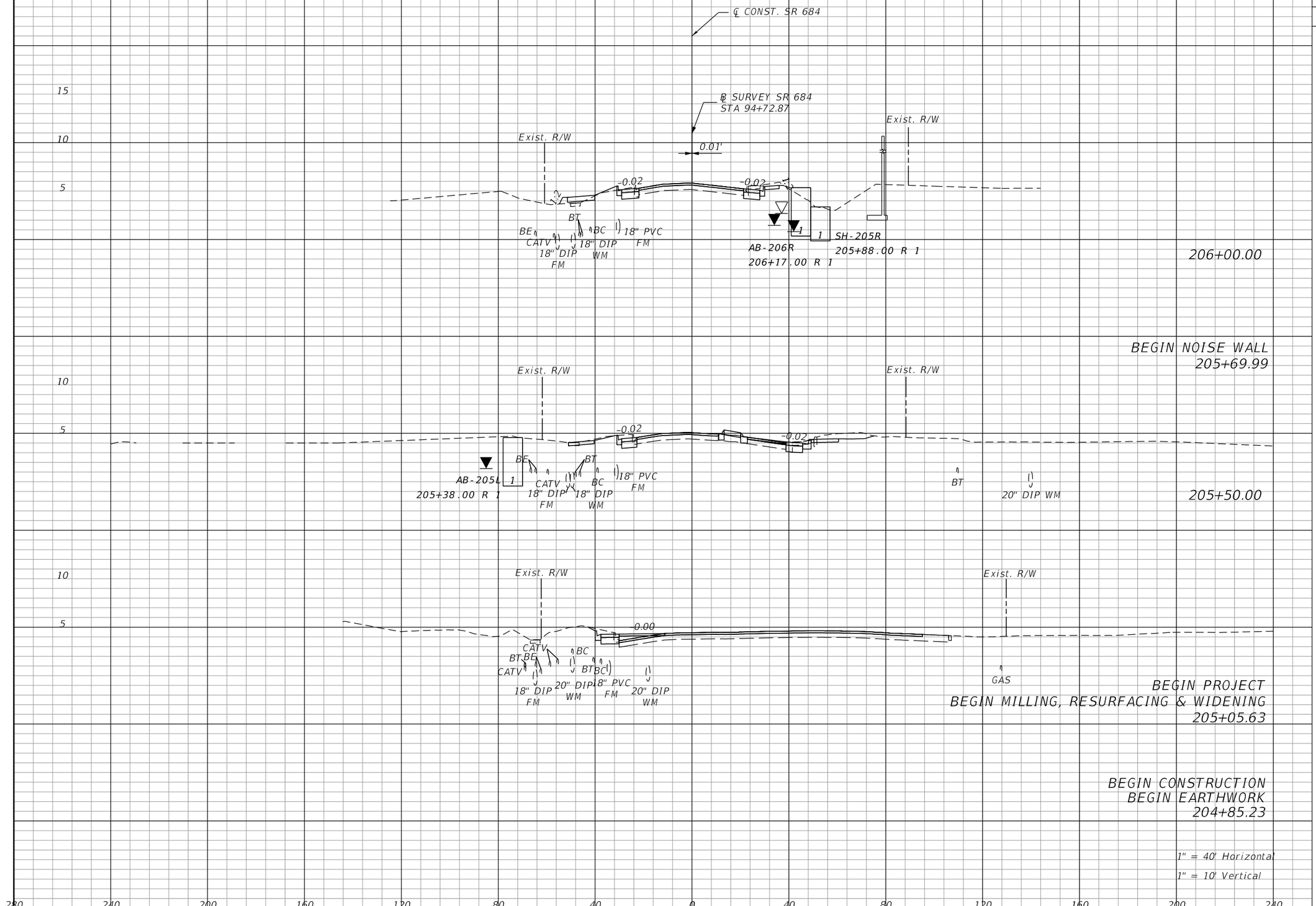
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTION PATTERNS

SHEET NO. 108

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



Regular Exc.		Embankment	
A	V	A	V
32	69	14	13
43	45	0	0
12	9	0	0
12	0	0	0

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REVISIONS			
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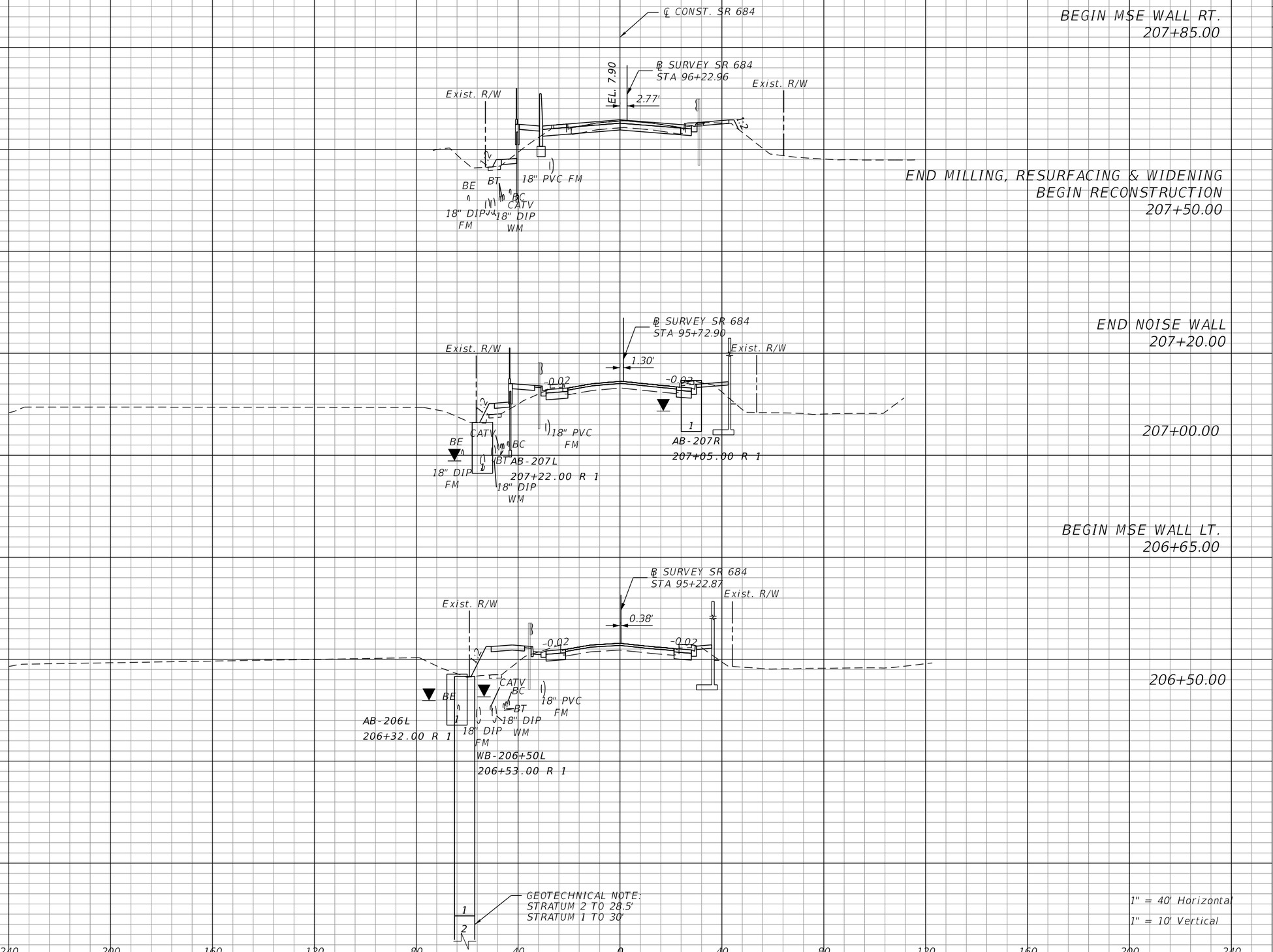
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 109



BEGIN MSE WALL RT.
207+85.00

END MILLING, RESURFACING & WIDENING
BEGIN RECONSTRUCTION
207+50.00

END NOISE WALL
207+20.00

207+00.00

BEGIN MSE WALL LT.
206+65.00

206+50.00

1" = 40' Horizontal

1" = 10' Vertical

Regular Exc.		Embankment	
A	V	A	V
63	92	14	34
36	62	23	58
31	58	40	50

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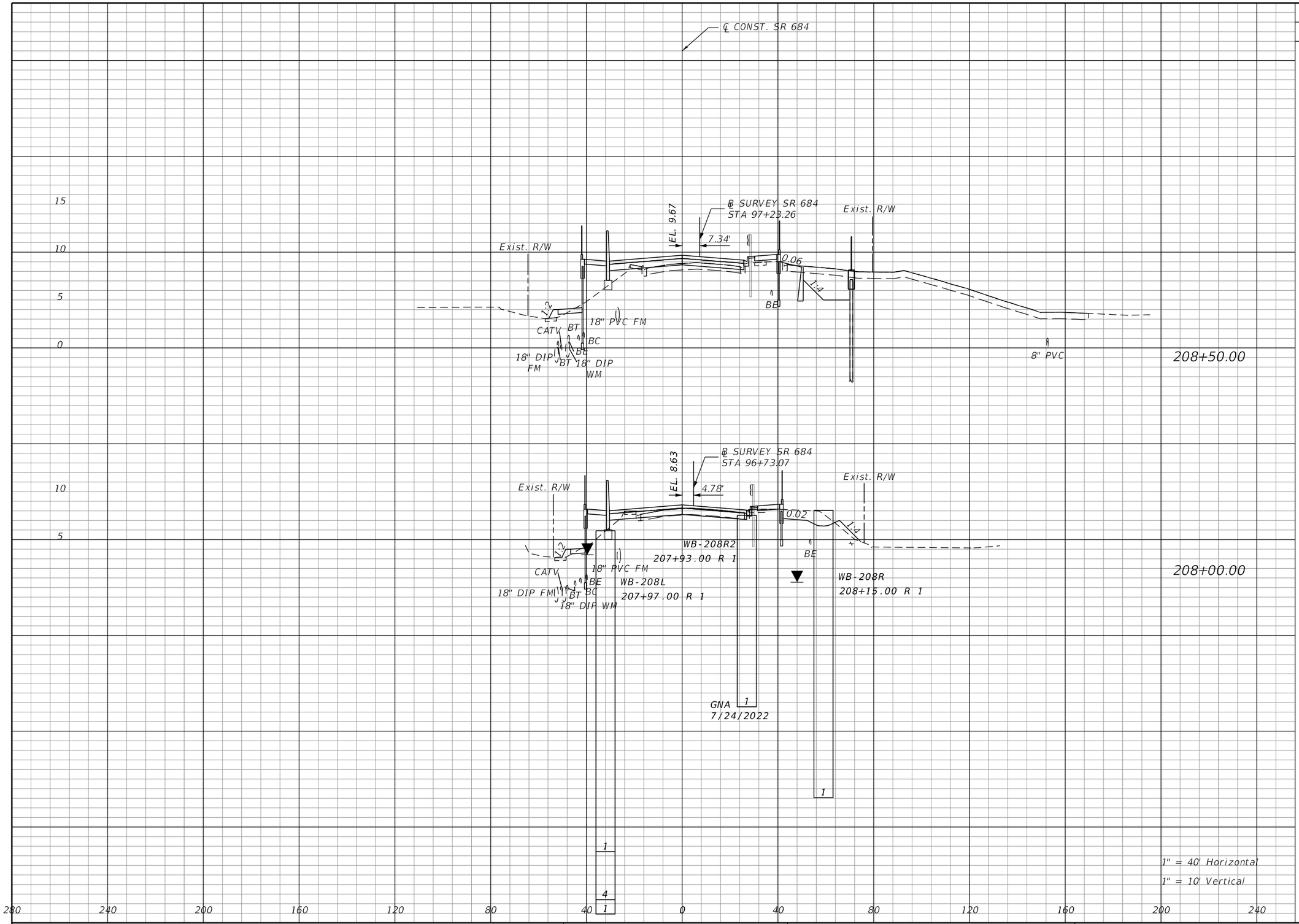
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 110



Regular Exc.		Embankment	
A	V	A	V
88	145	42	66
69	122	29	40

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REVISIONS			
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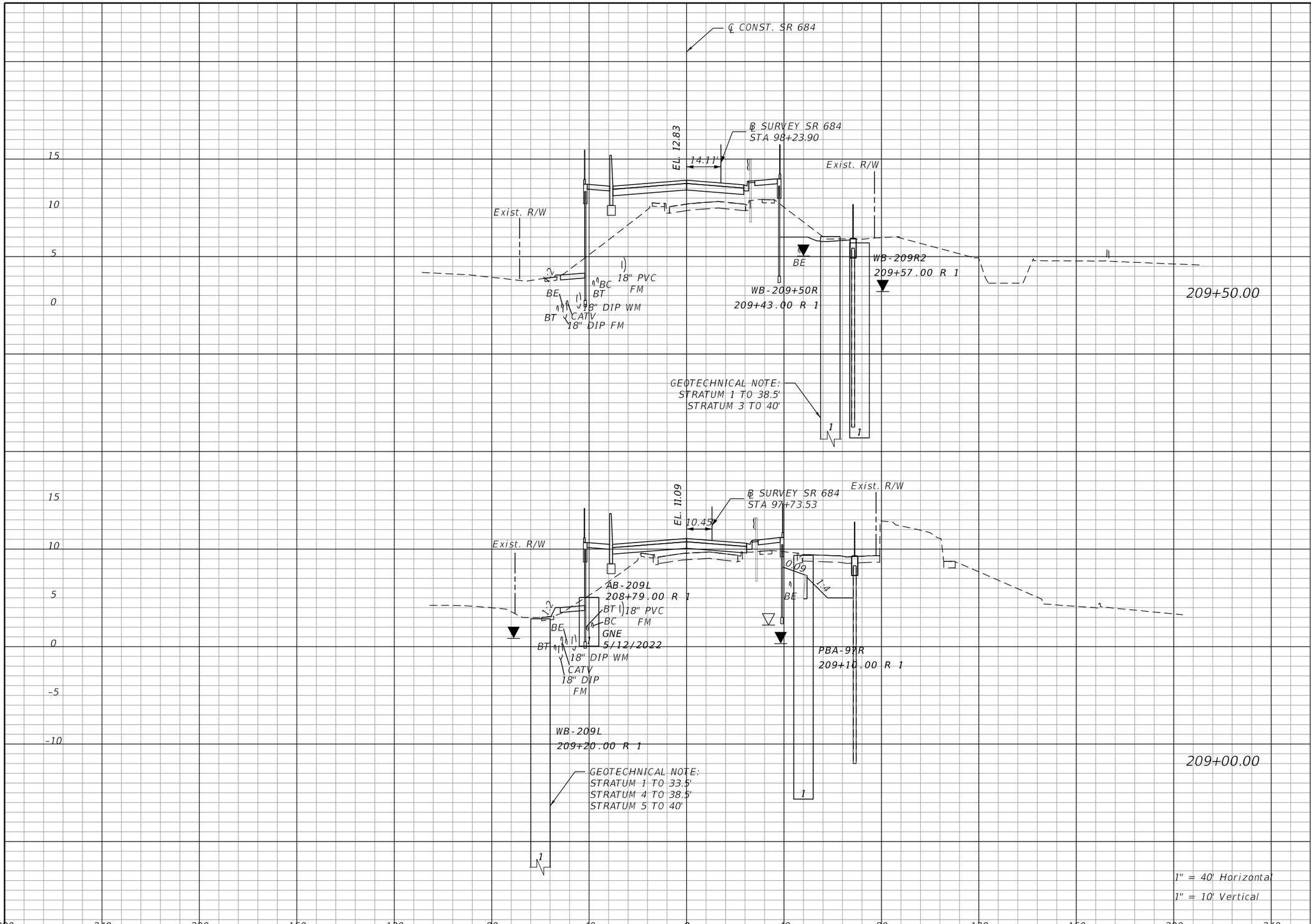
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 111



Regular Exc.		Embankment	
A	V	A	V
59	157	170	238
111	184	86	120

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REVISIONS			
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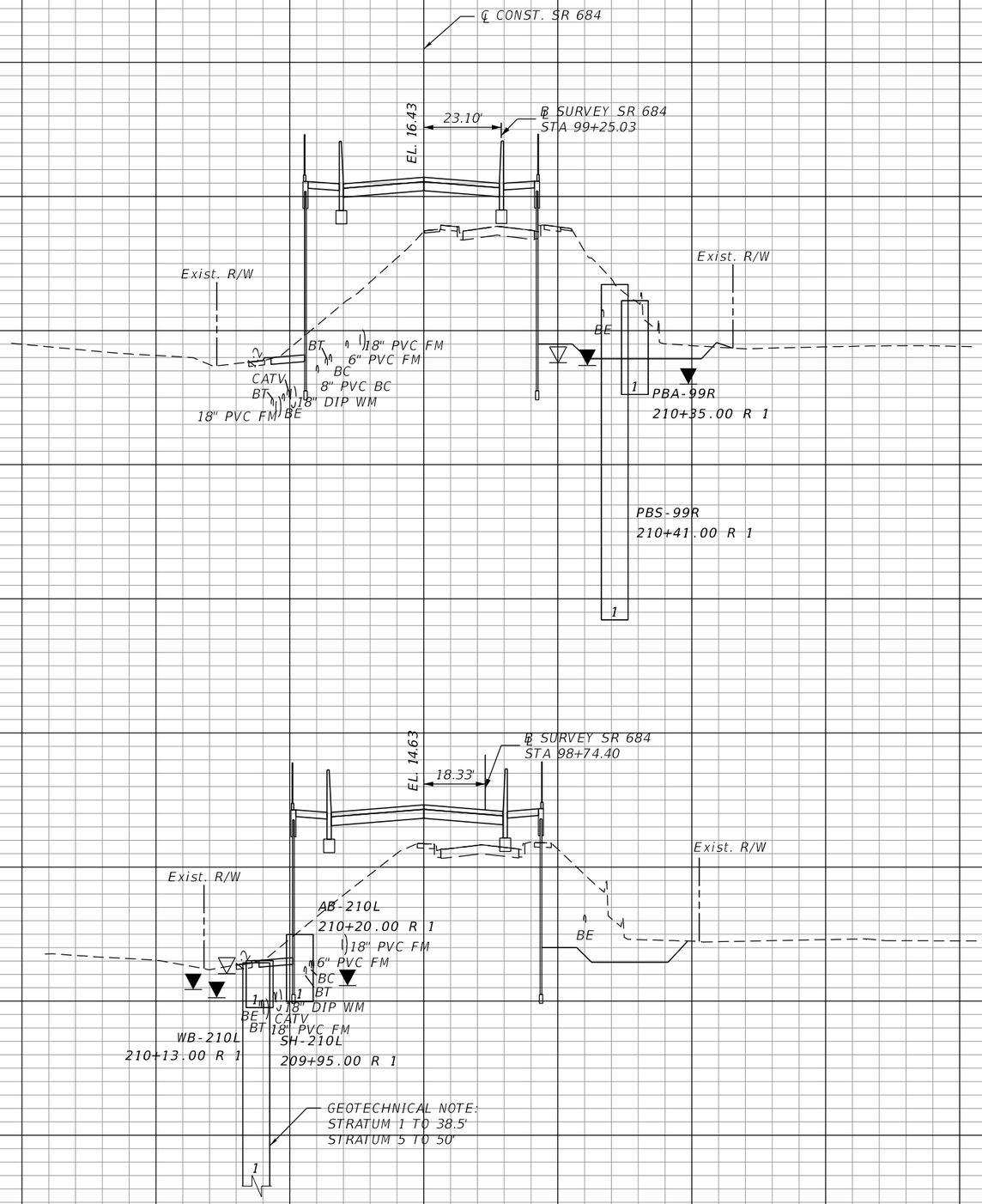
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 112



Regular Exc.		Embankment	
A	V	A	V
268	426	322	523
192	232	240	380

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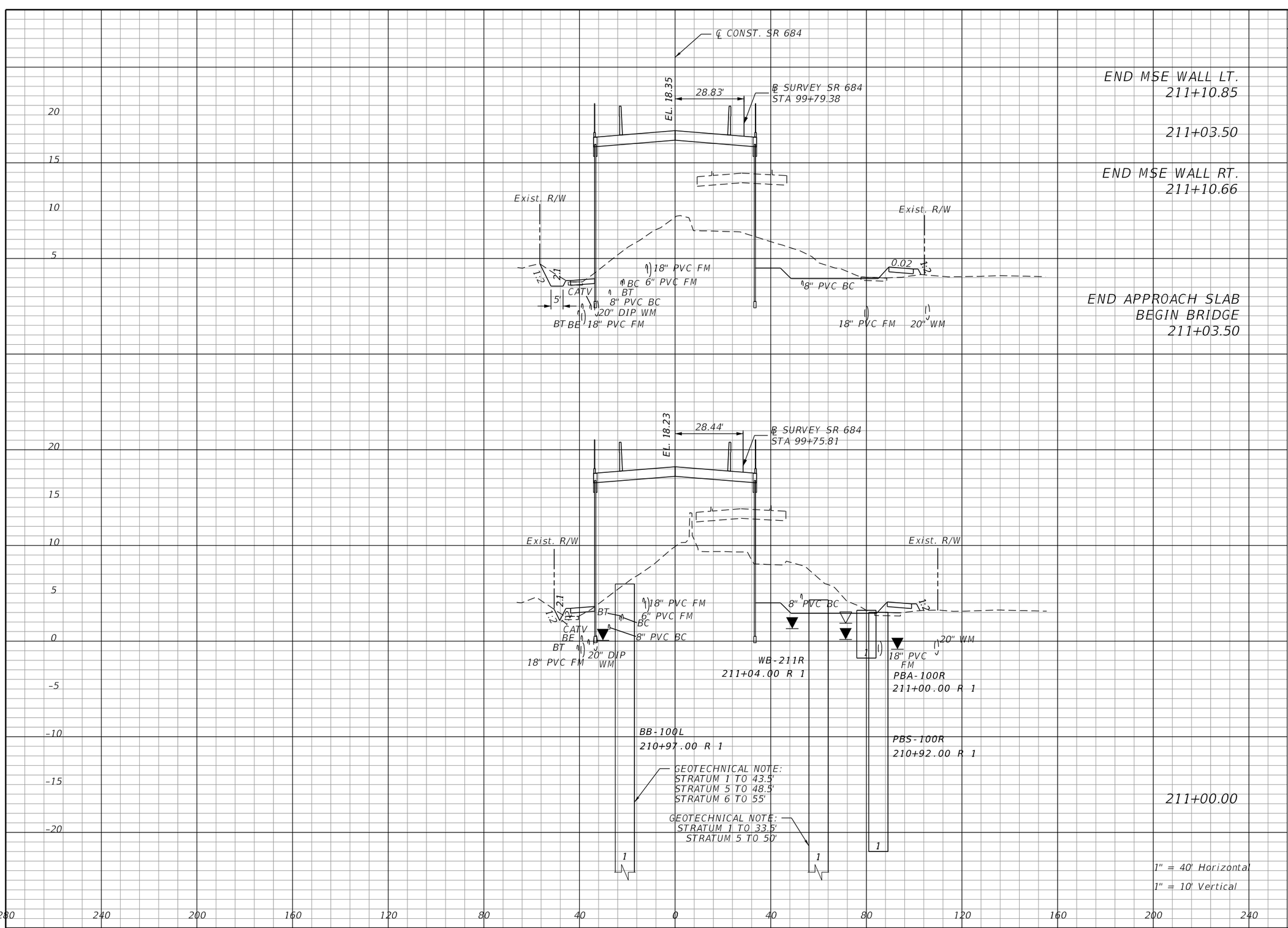
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 113



END MSE WALL LT.
211+10.85

211+03.50

END MSE WALL RT.
211+10.66

END APPROACH SLAB
BEGIN BRIDGE
211+03.50

211+00.00

1" = 40' Horizontal

1" = 10' Vertical

	Regular Exc.		Embankment	
	A	V	A	V
END MSE WALL LT. 211+10.85				
211+03.50	101	27	650	175
END MSE WALL RT. 211+10.66				
END APPROACH SLAB BEGIN BRIDGE 211+03.50	101	17	650	80
211+00.00	163	399	589	844

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REVISIONS			
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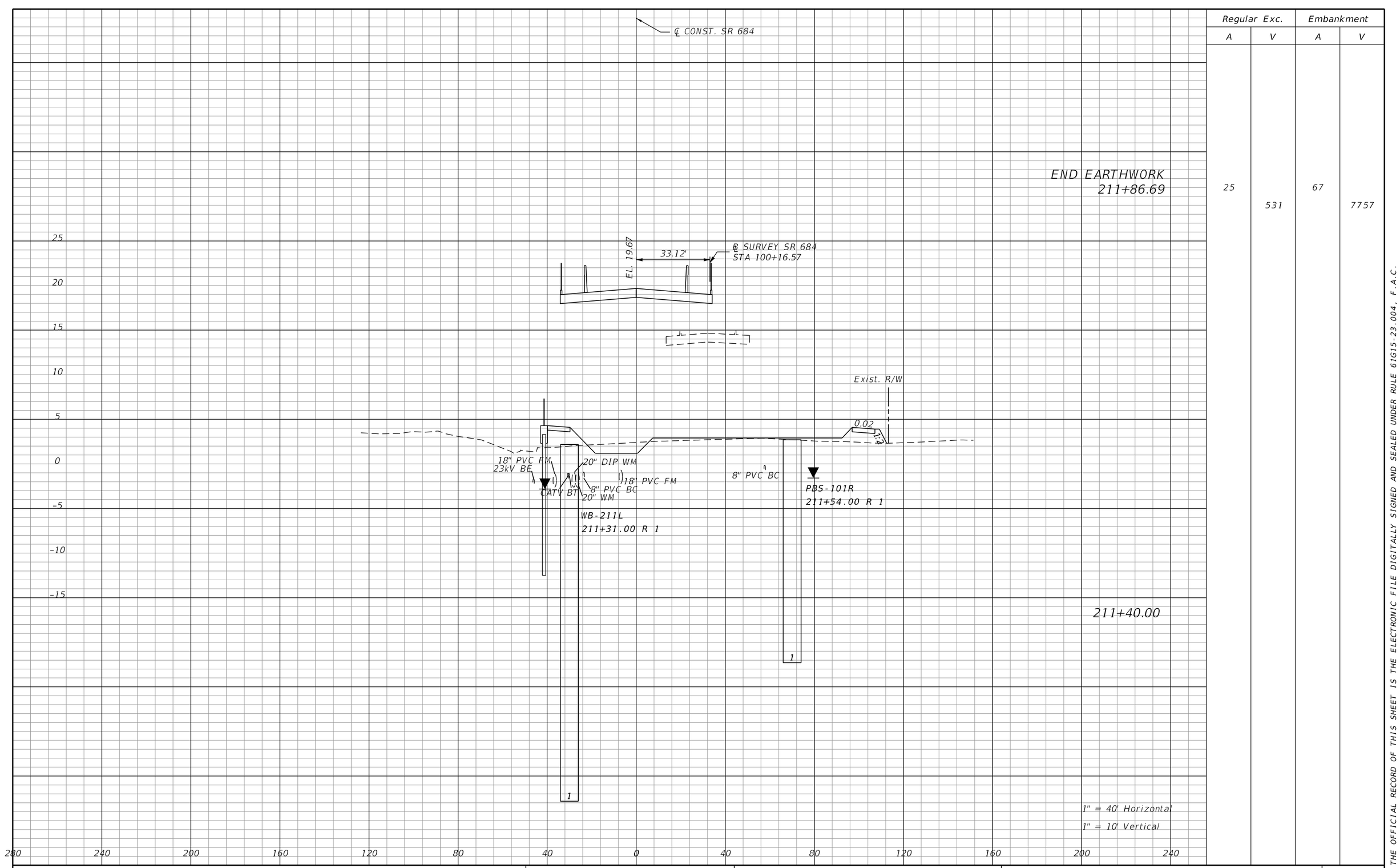
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 114



Regular Exc.		Embankment	
A	V	A	V
25	531	67	7757

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REVISIONS			
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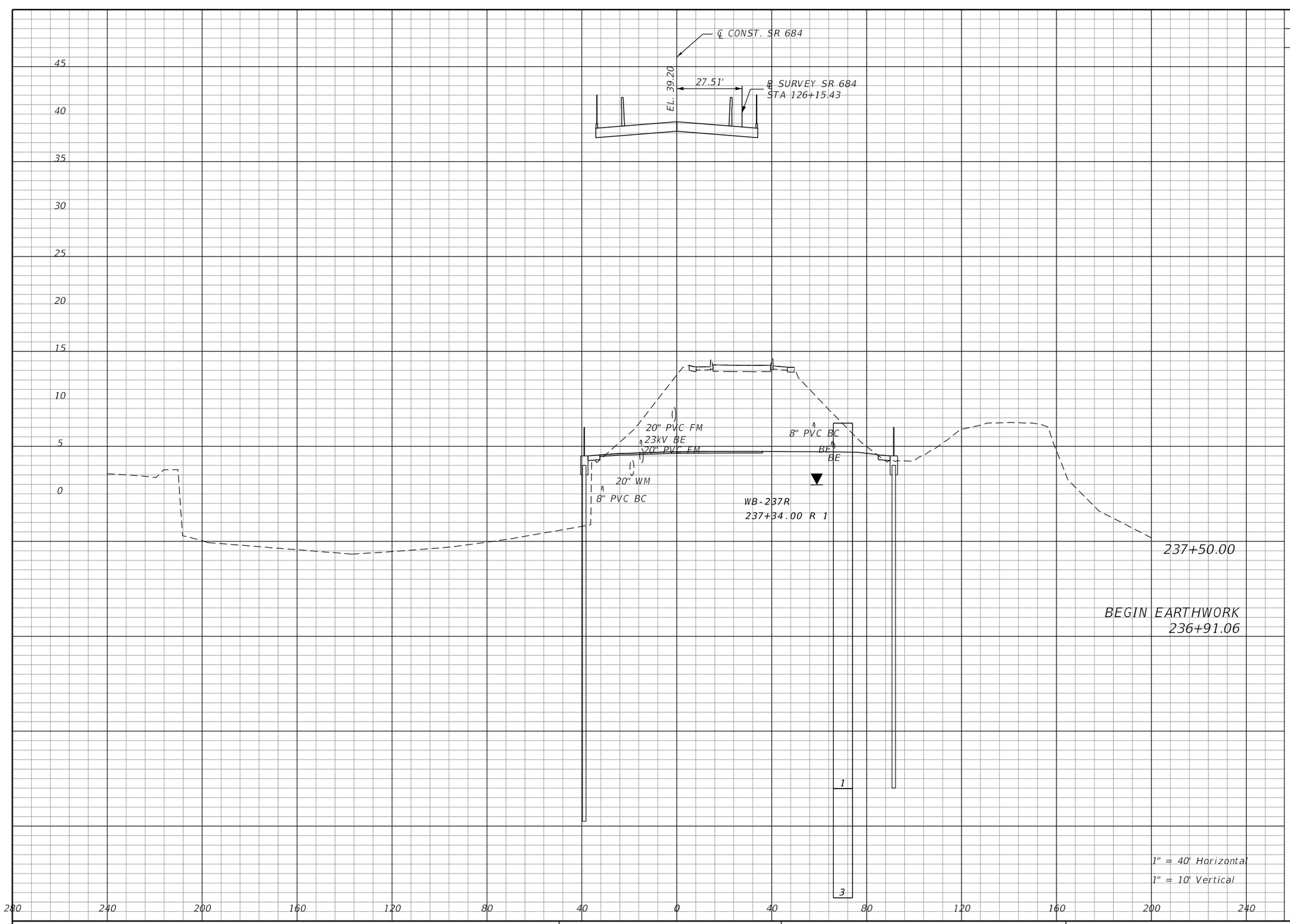
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 115



Regular Exc.		Embankment	
A	V	A	V
706	1541	14	31
706	0	14	0

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REVISIONS			
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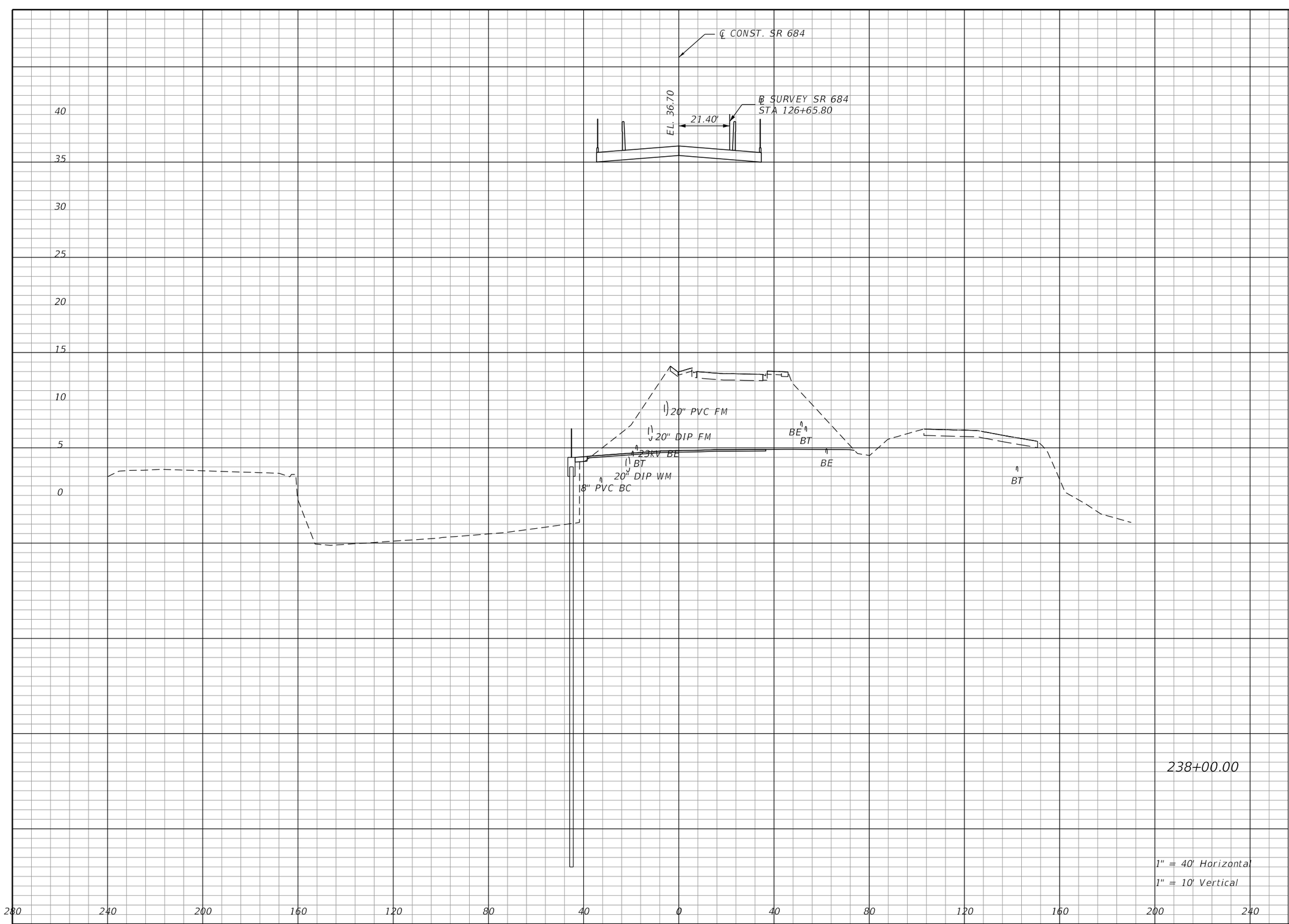
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 116



Regular Exc.		Embankment	
A	V	A	V
238+00.00			
640	1246	16	28

1" = 40' Horizontal
1" = 10' Vertical

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REVISIONS			
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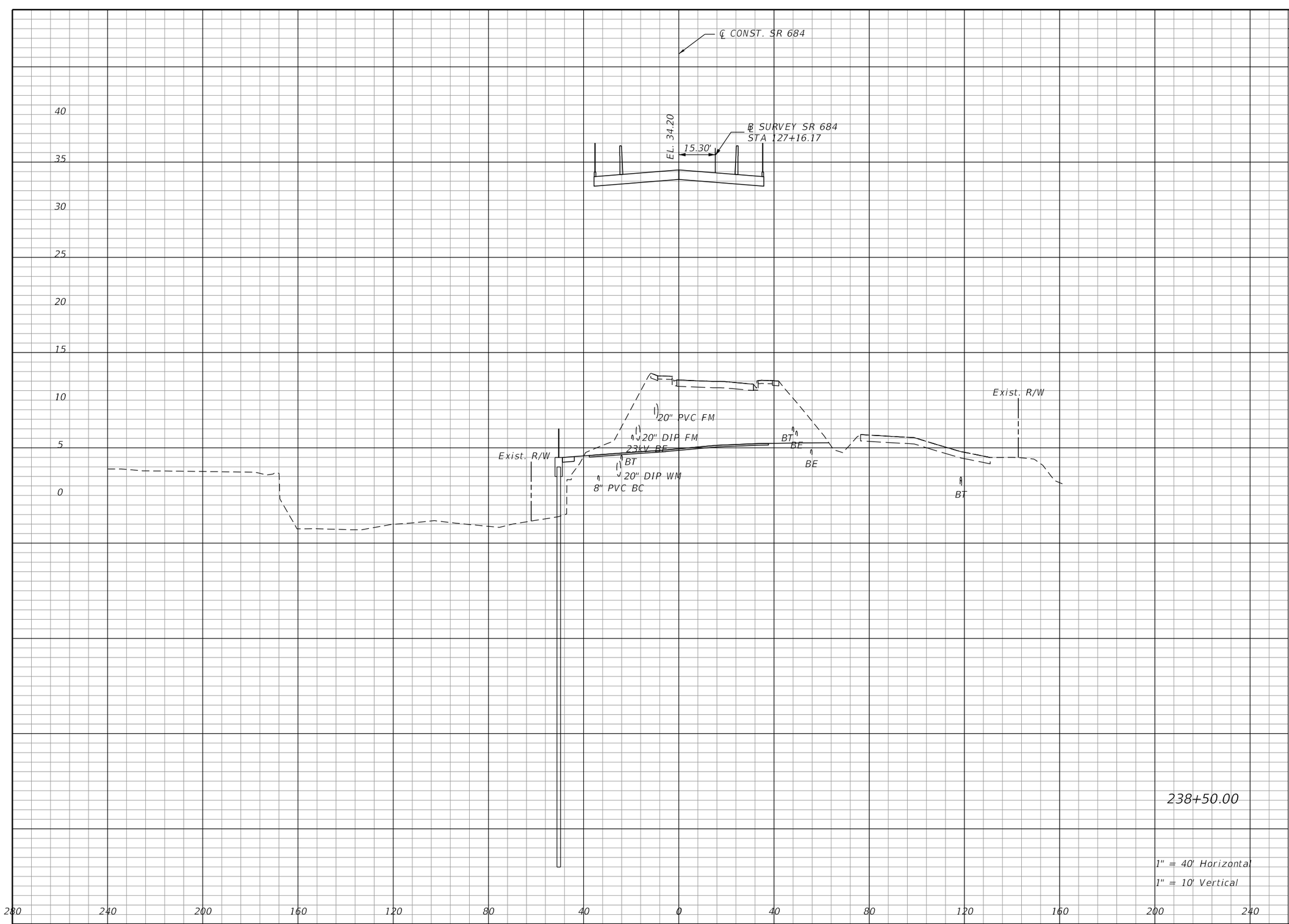
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 117



Regular Exc.		Embankment	
A	V	A	V
539	1092	22	35

238+50.00

1" = 40' Horizontal

1" = 10' Vertical

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

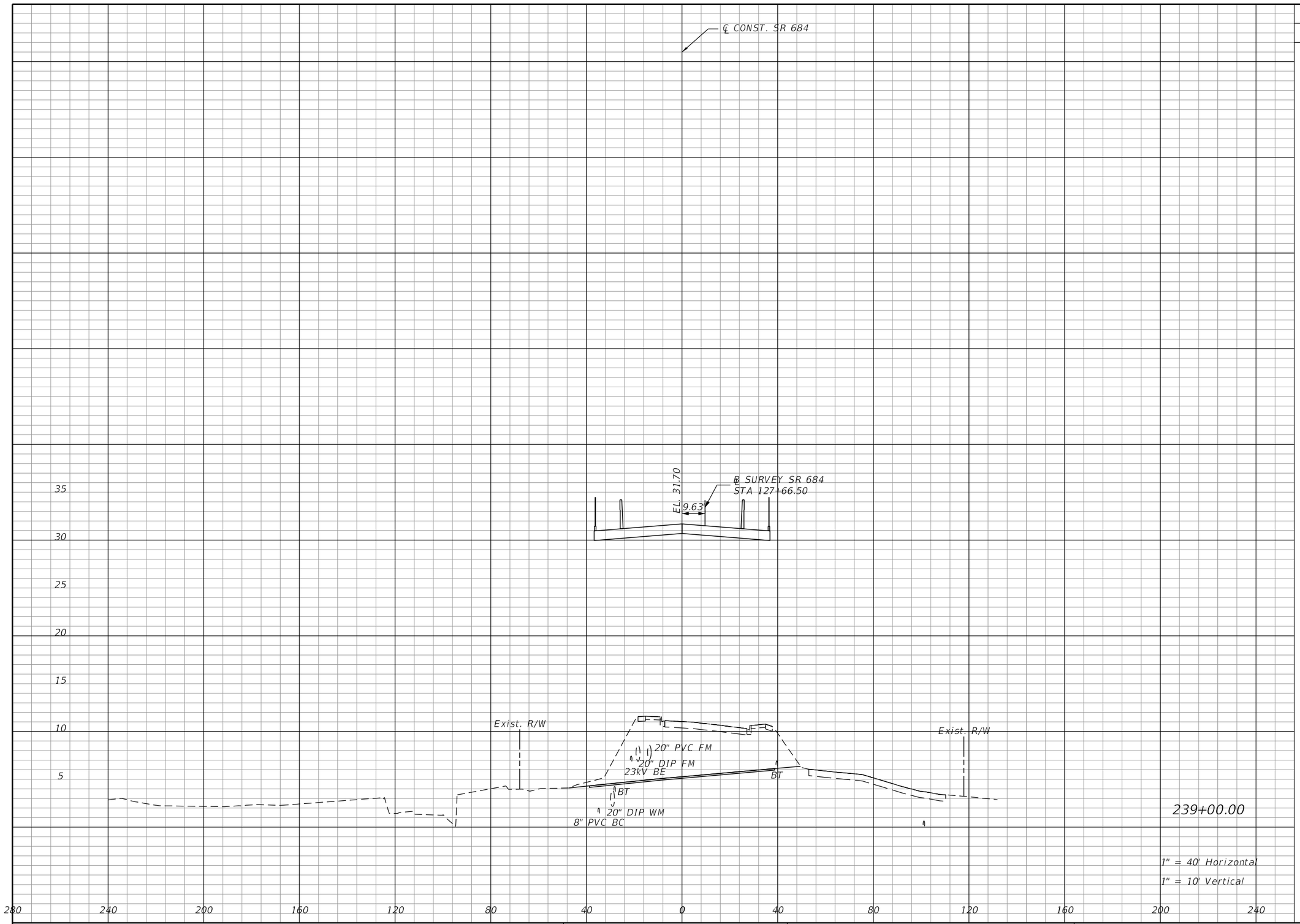
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 118



Regular Exc.		Embankment	
A	V	A	V
403	872	0	20

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

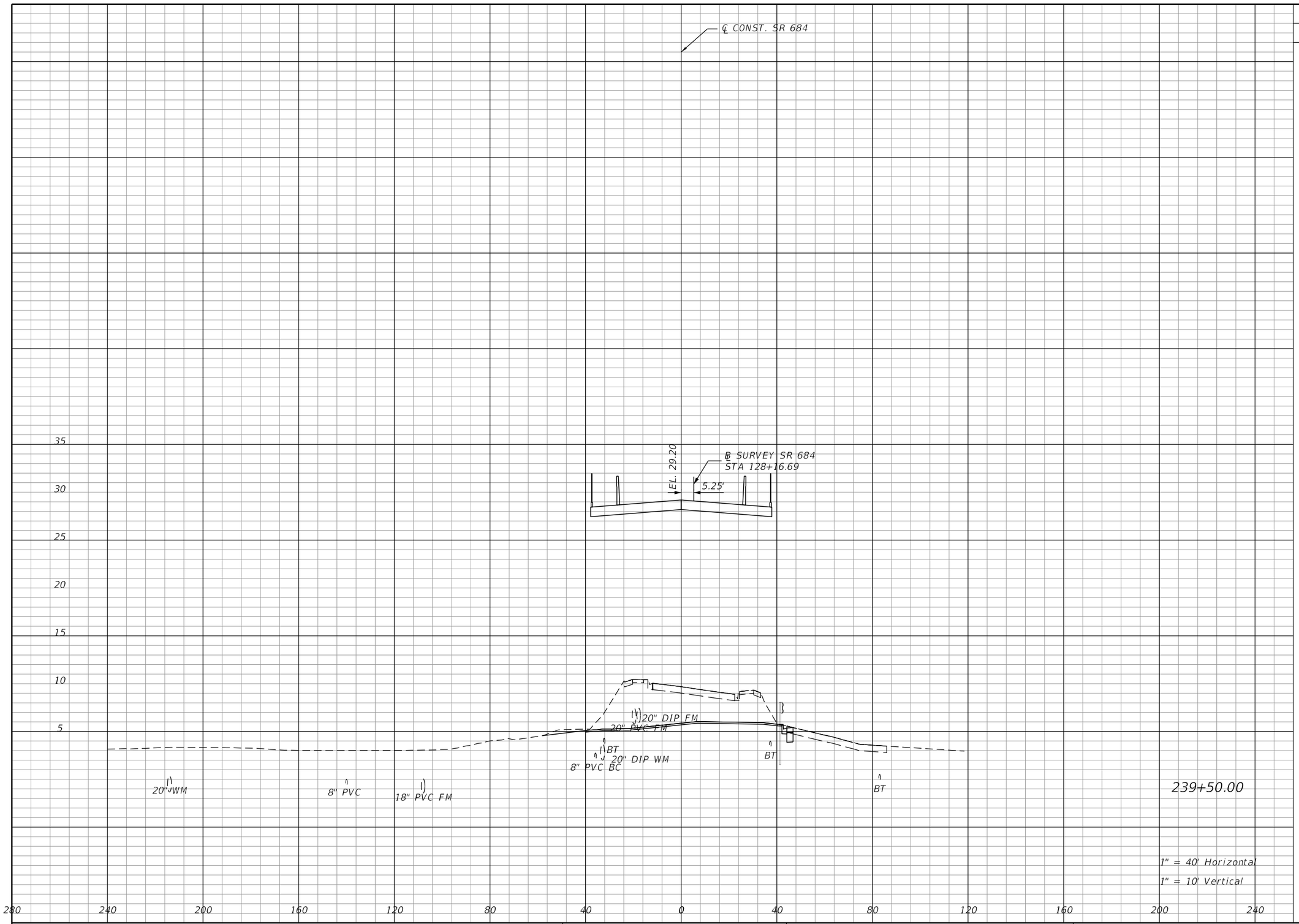
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 119



Regular Exc.		Embankment	
A	V	A	V
284	636	0	0

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REVISIONS			
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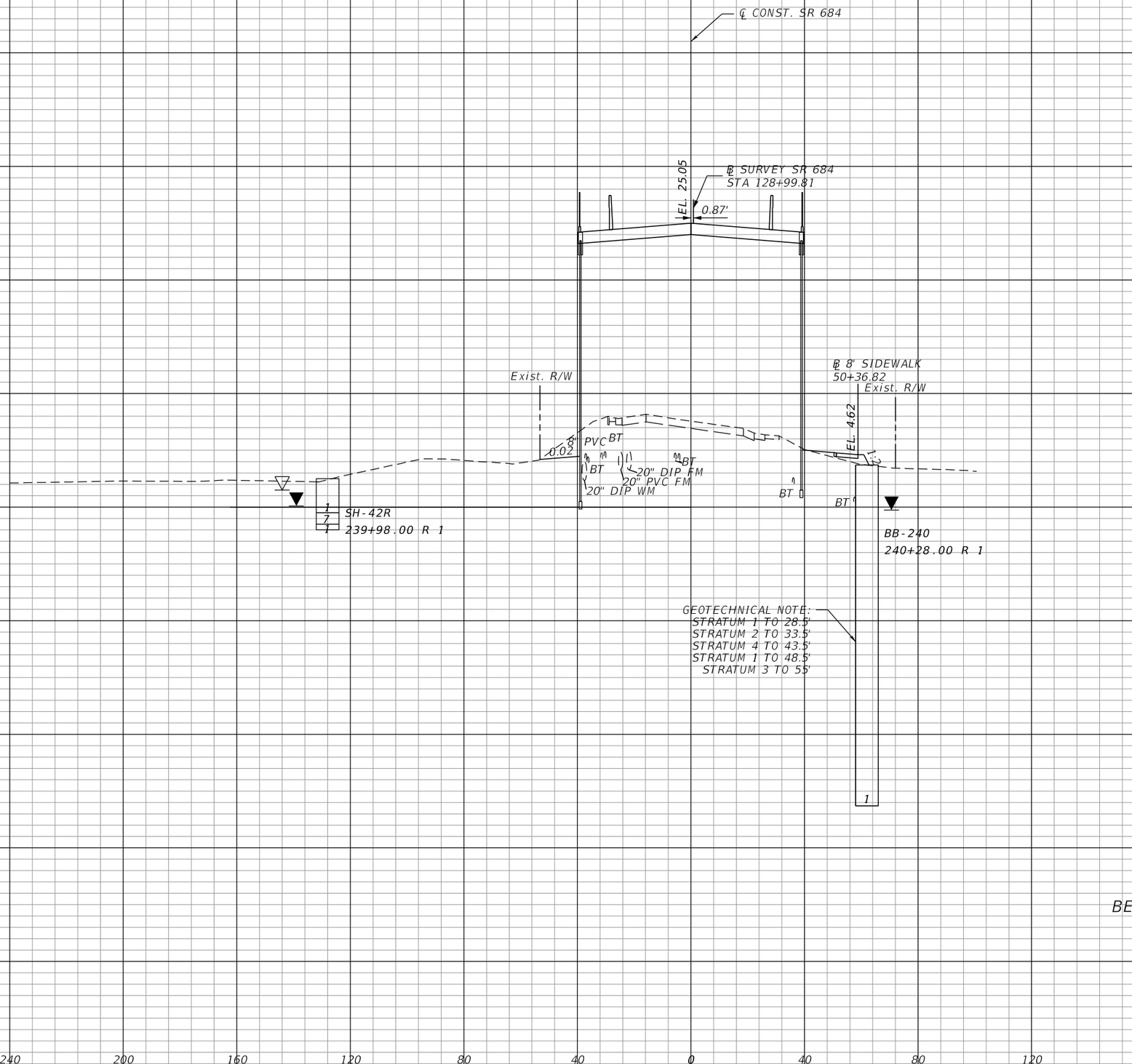
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 120



Regular Exc.		Embankment	
A	V	A	V
22	0	1271	0

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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

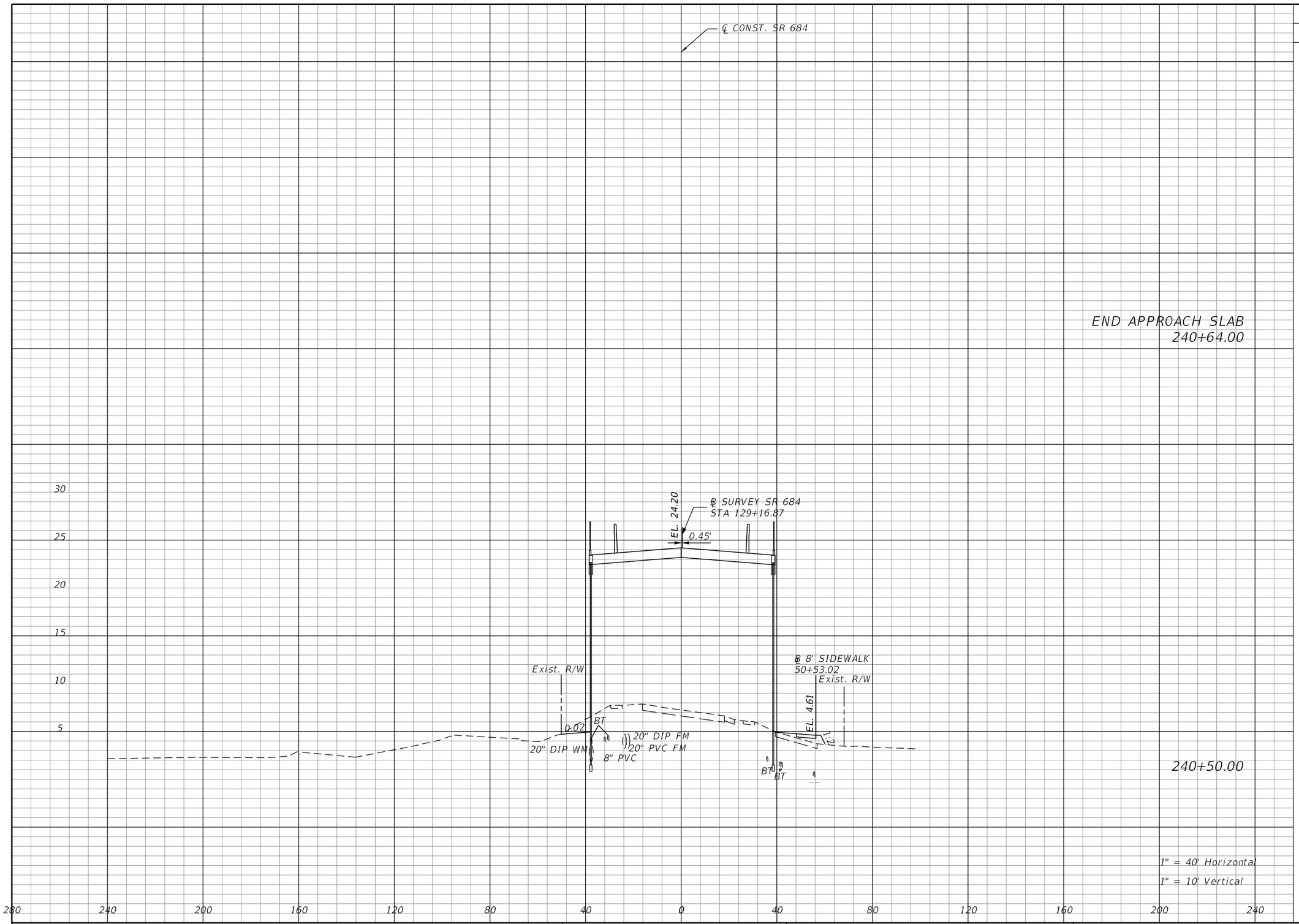
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 121



Regular Exc.		Embankment	
A	V	A	V
16	11	1206	734

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

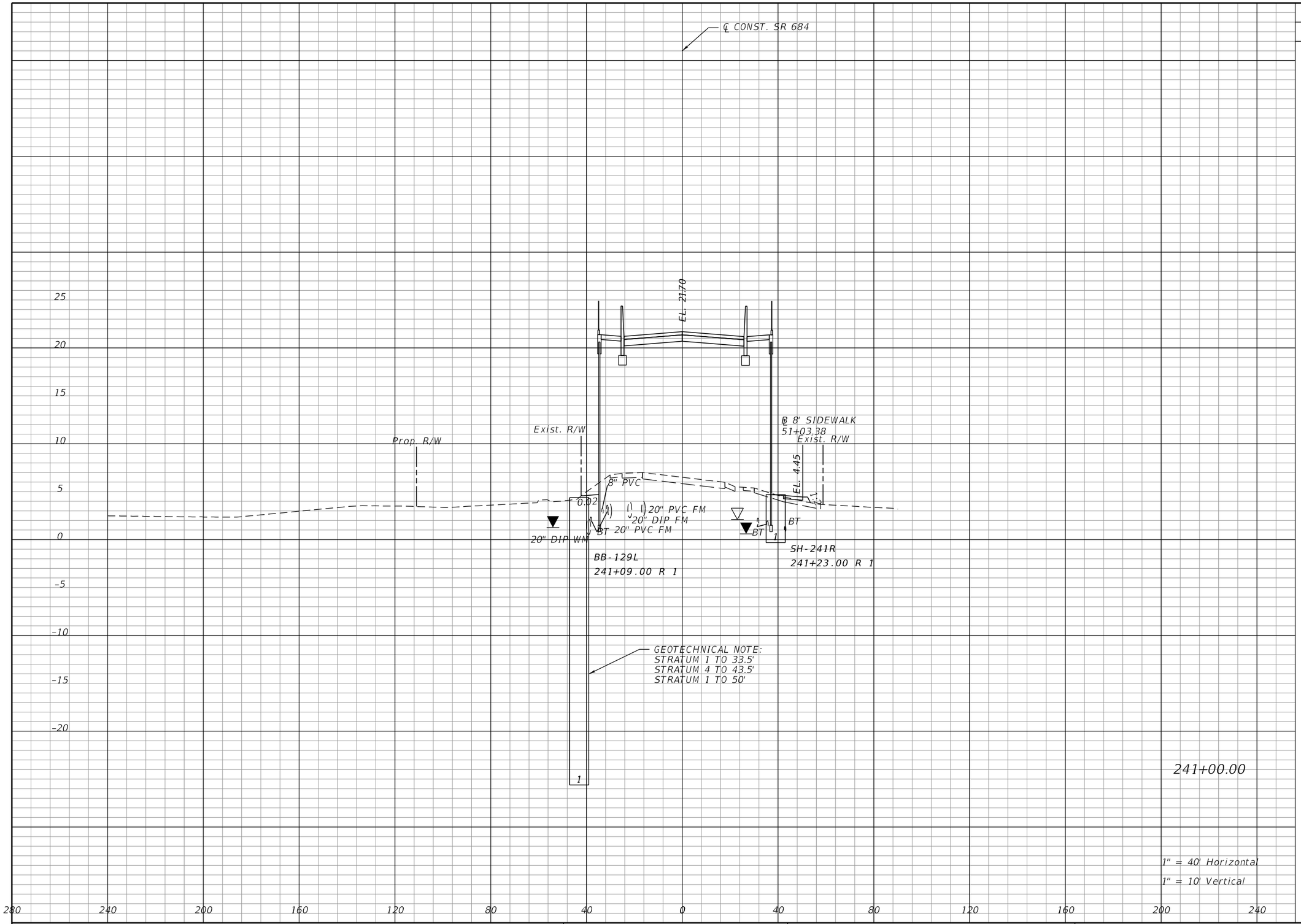
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 122



Regular Exc.		Embankment	
A	V	A	V
10	24	1006	2048

1" = 40' Horizontal

1" = 10' Vertical

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REVISIONS			
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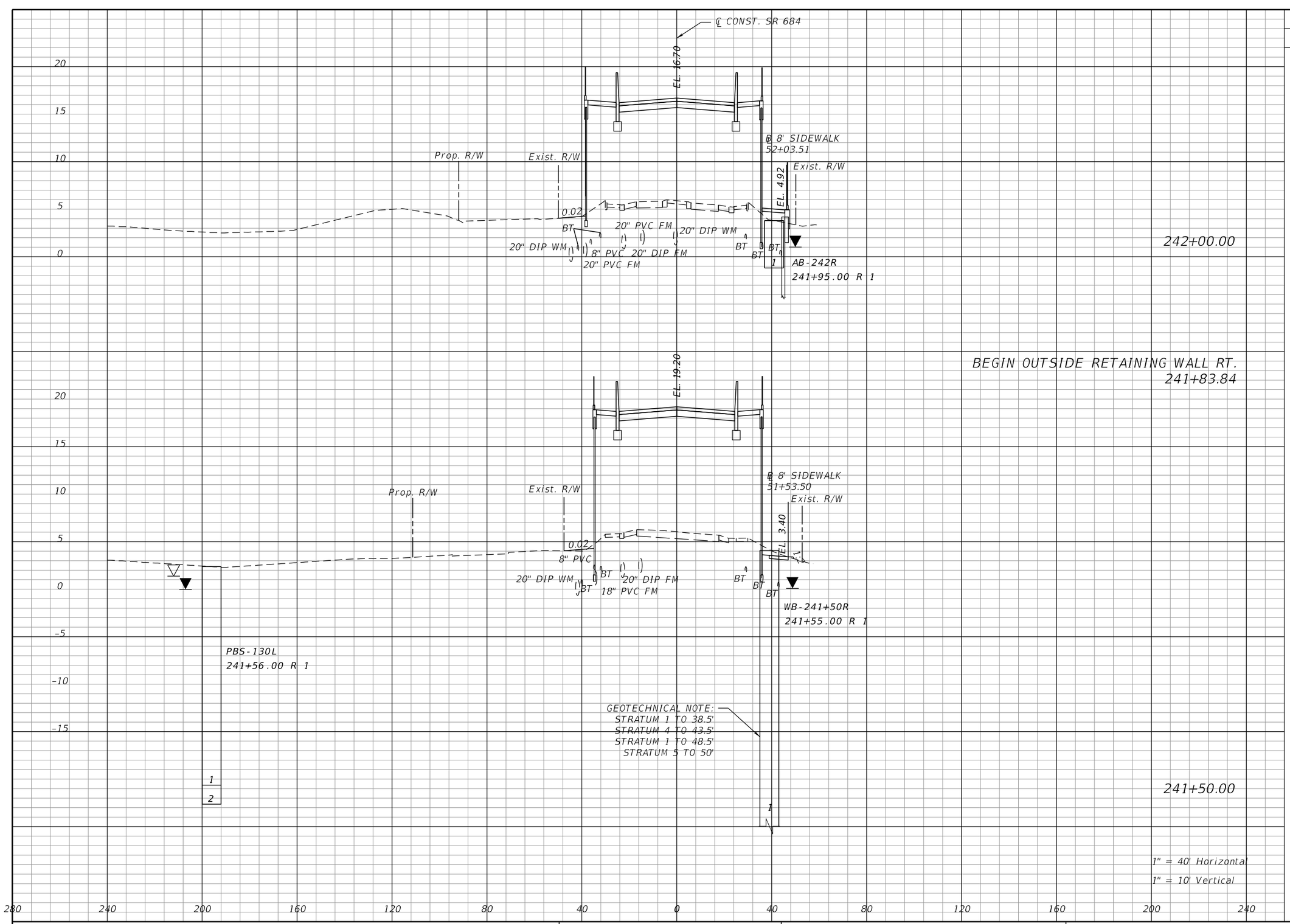
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 123



Regular Exc.		Embankment	
A	V	A	V
7	18	731	1462
12	20	848	1717

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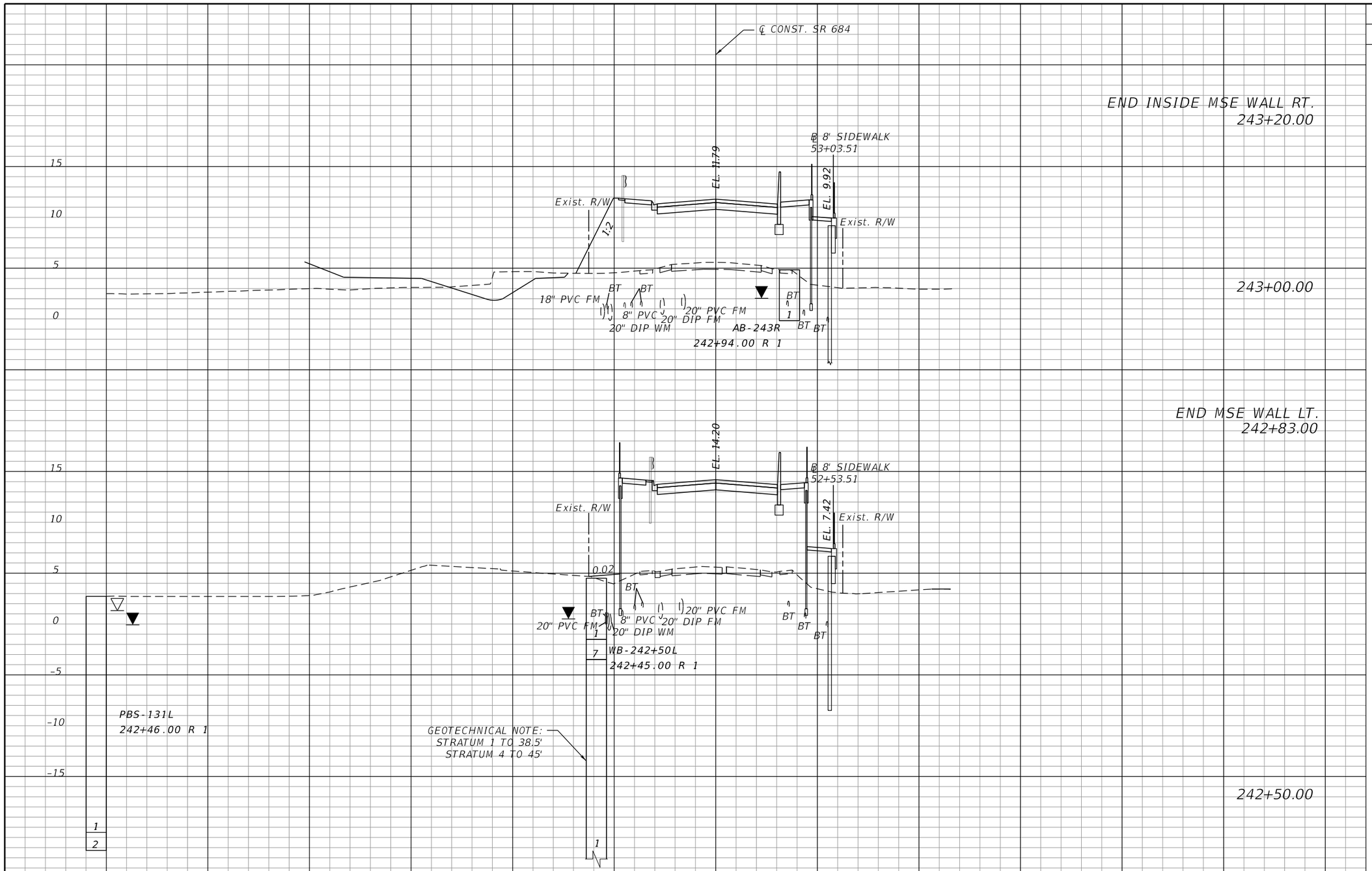
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 124



Regular Exc.		Embankment	
A	V	A	V
2	6	537	1056
4	10	604	1236

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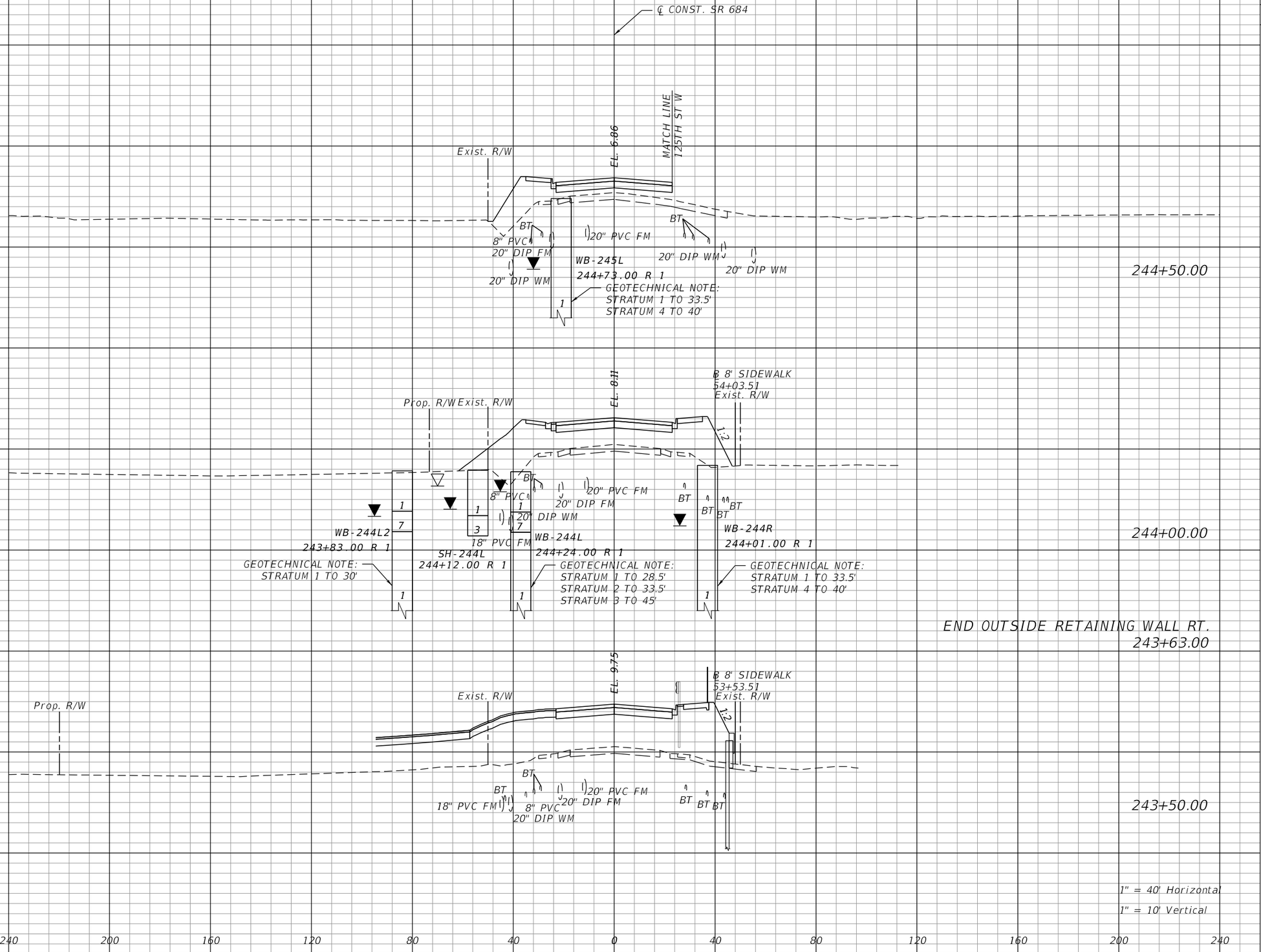
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4300 W. CYPRESS STREET, SUITE 500
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 125



Regular Exc.		Embankment	
A	V	A	V
0	0	90	325
0	1	261	684
1	3	478	940

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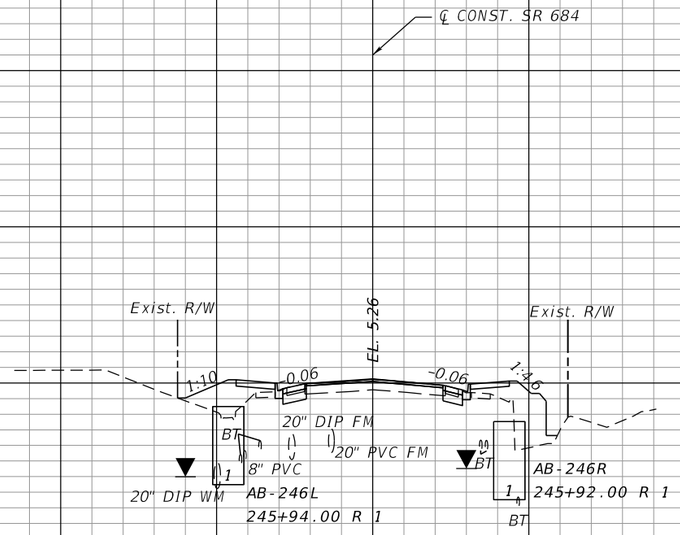
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 126



246+00.00

END RECONSTRUCTION
BEGIN MILLING, RESURFACING & WIDENING
245+60.00

245+50.00

245+00.00

1" = 40' Horizontal
1" = 10' Vertical

Regular Exc.		Embankment	
A	V	A	V
13	43	64	139
34	44	86	151
14	13	78	155

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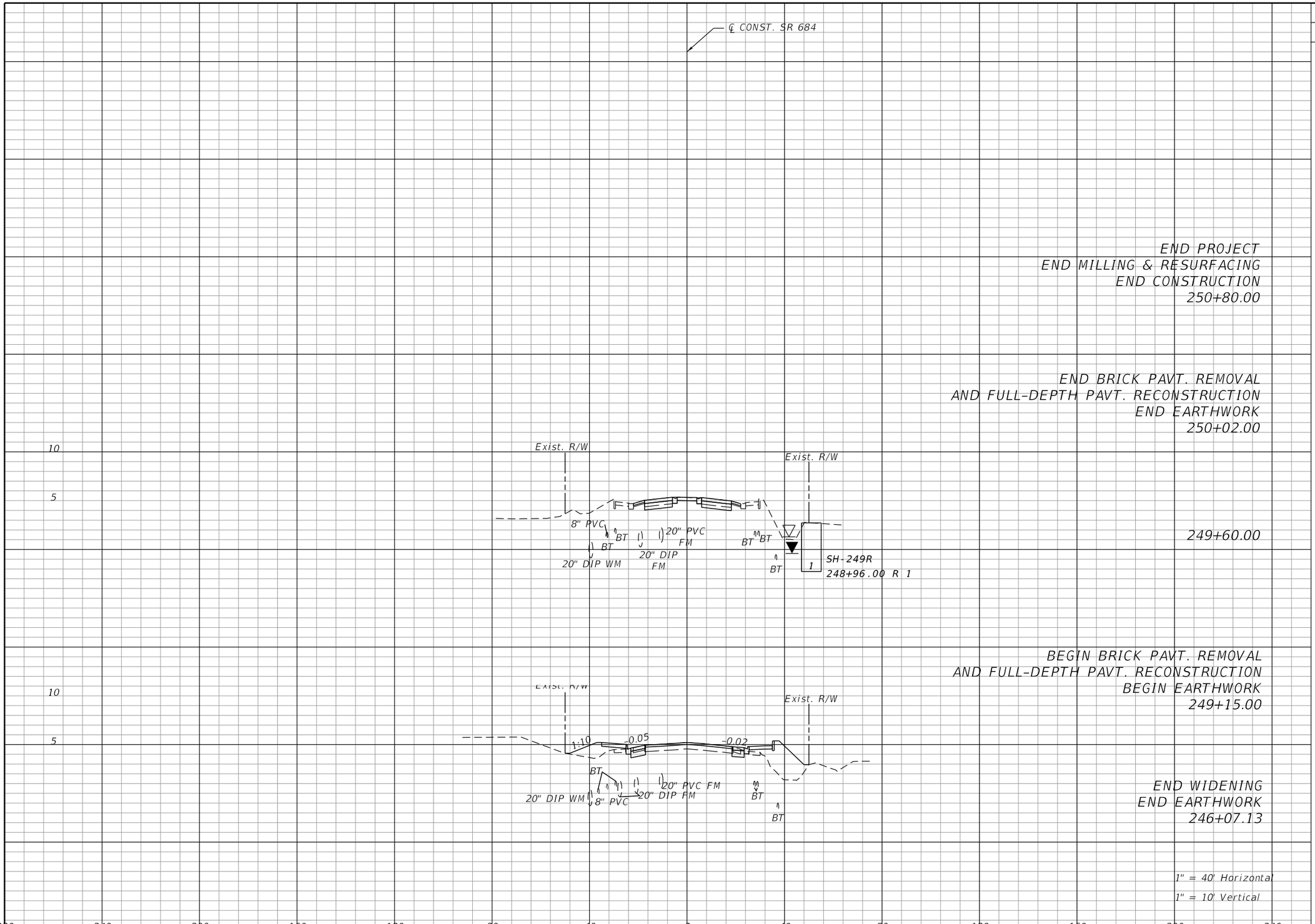
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 127



END PROJECT
END MILLING & RESURFACING
END CONSTRUCTION
250+80.00

END BRICK PAVT. REMOVAL
AND FULL-DEPTH PAVT. RECONSTRUCTION
END EARTHWORK
250+02.00

249+60.00

BEGIN BRICK PAVT. REMOVAL
AND FULL-DEPTH PAVT. RECONSTRUCTION
BEGIN EARTHWORK
249+15.00

END WIDENING
END EARTHWORK
246+07.13

1" = 40' Horizontal

1" = 10' Vertical

Regular Exc.		Embankment	
A	V	A	V
29	45	0	0
29	48	0	0
29	0	0	0
12	3	58	16

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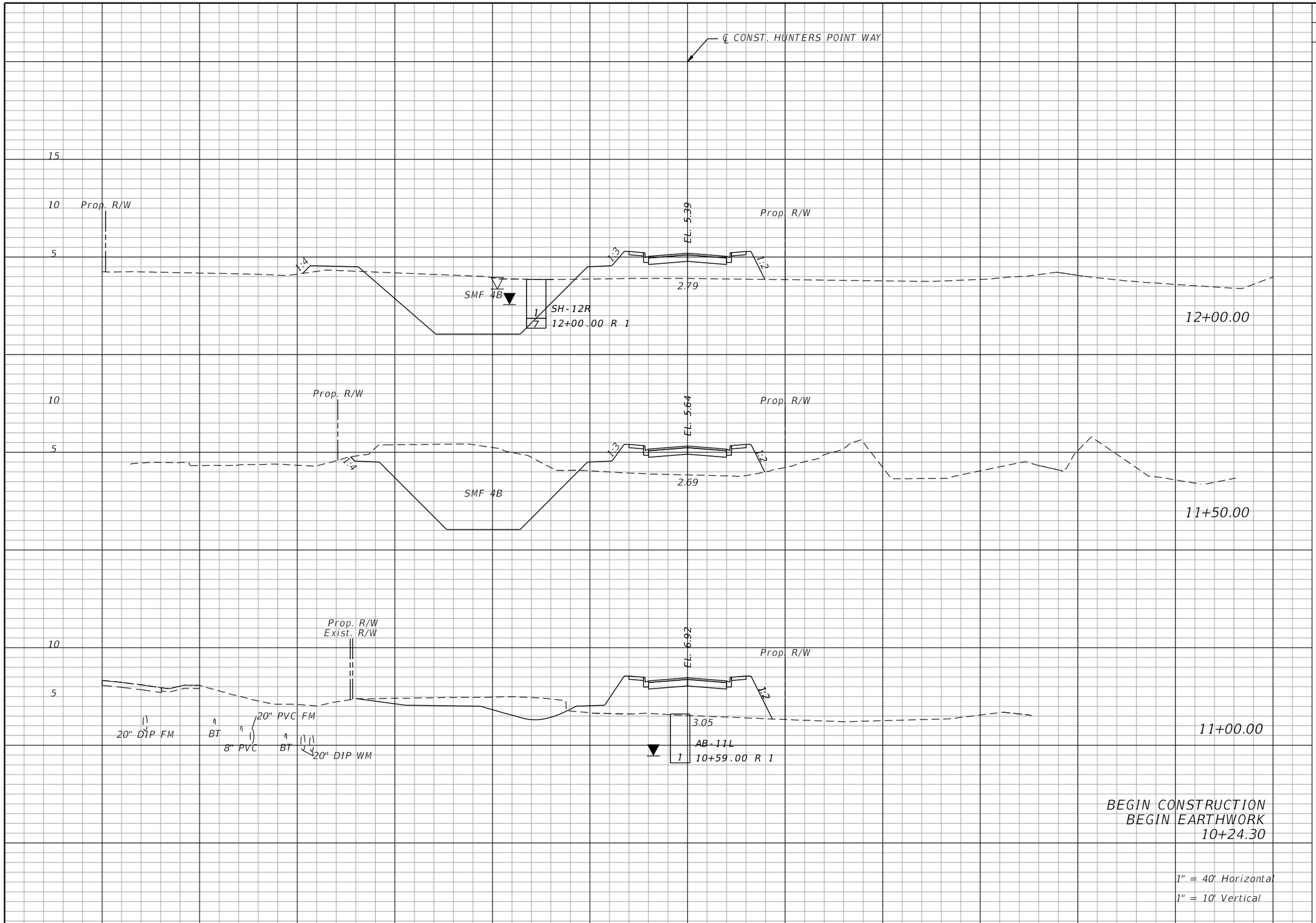
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
SR 684 (CORTEZ ROAD W.)

SHEET NO. 128



Regular Exc.		Embankment	
A	V	A	V
356	789	144	268
495	546	146	330
94	0	211	0

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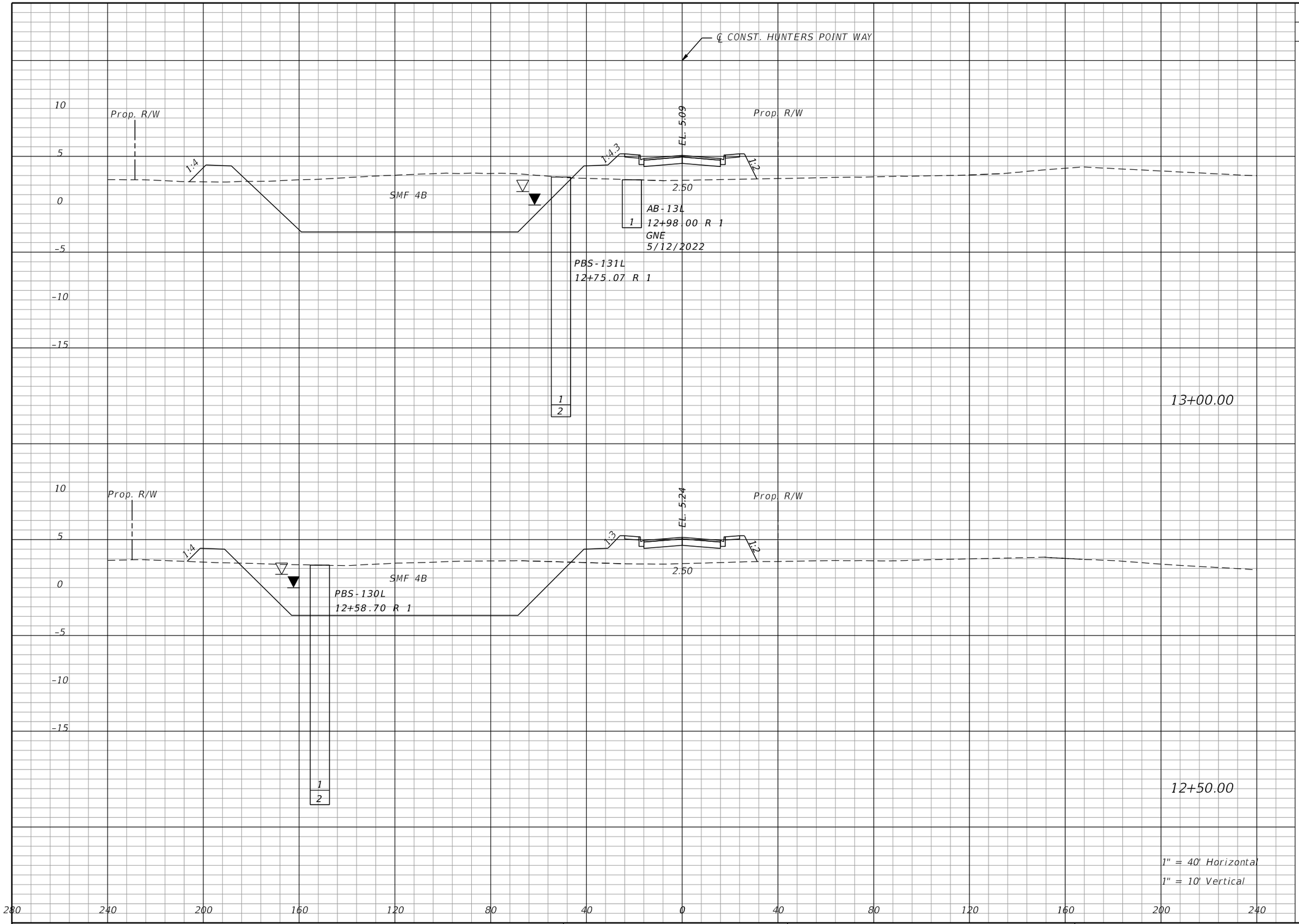
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
HUNTERS POINT WAY

SHEET NO. 129



Regular Exc.		Embankment	
A	V	A	V
664	822	160	204
637	920	164	284

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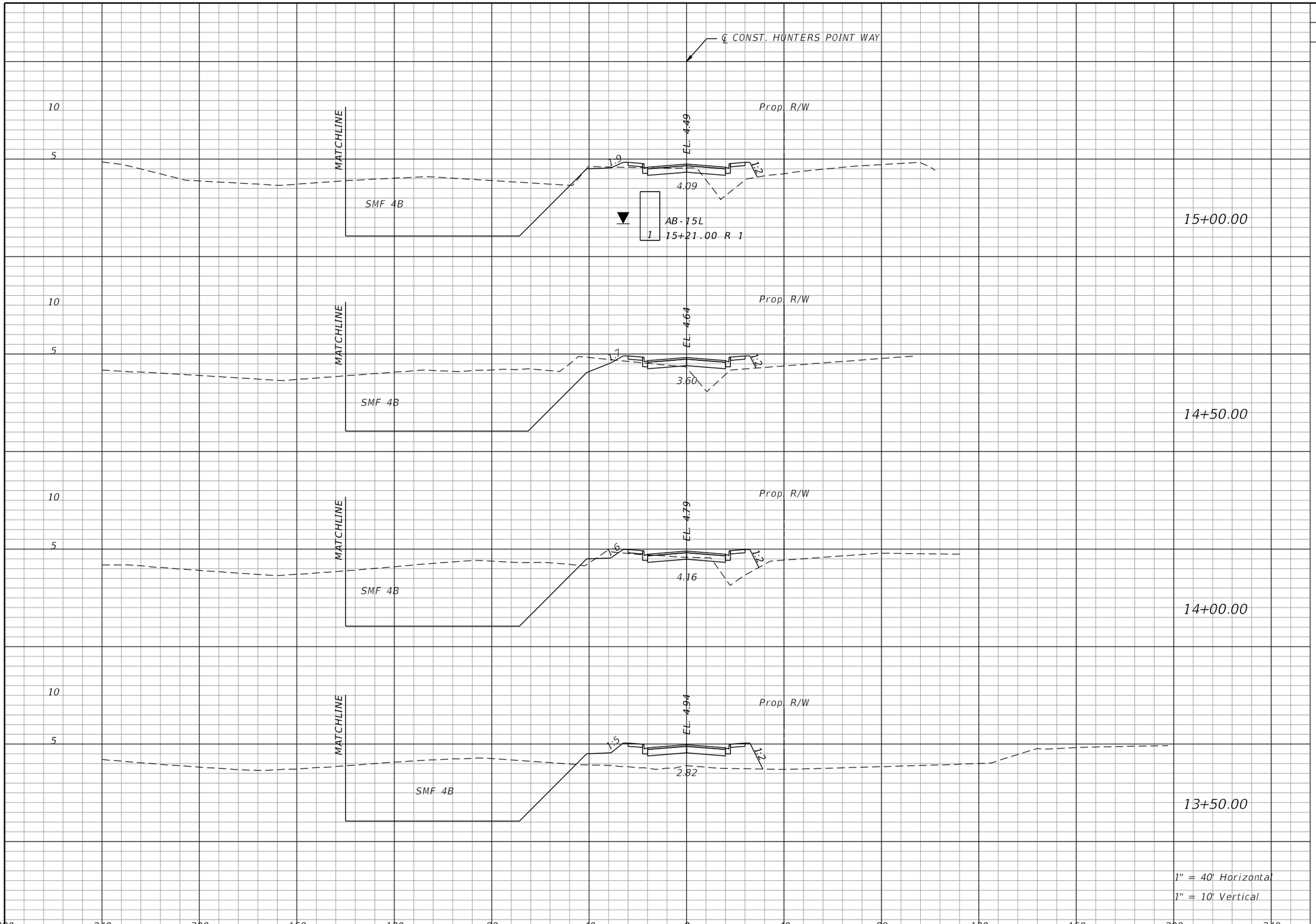
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
HUNTERS POINT WAY

SHEET NO. 130



	Regular Exc.		Embankment	
	A	V	A	V
15+00.00	490	366	41	27
14+50.00	561	391	38	27
14+00.00	550	395	38	58
13+50.00	514	393	116	92

1" = 40' Horizontal

1" = 10' Vertical

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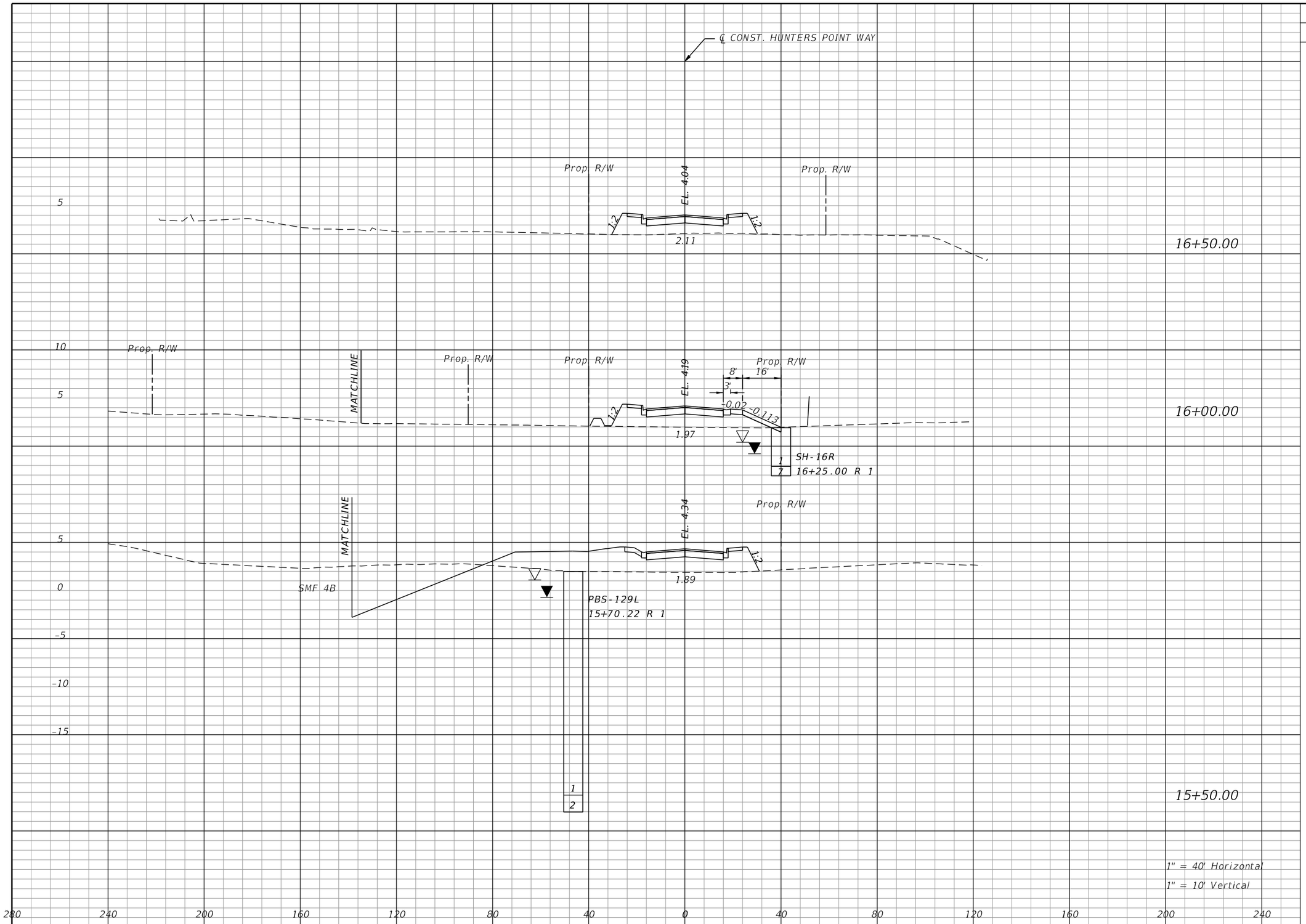
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
HUNTERS POINT WAY

SHEET NO. 131



Regular Exc.		Embankment	
A	V	A	V
0	1	74	148
1	140	86	261
150	392	196	219

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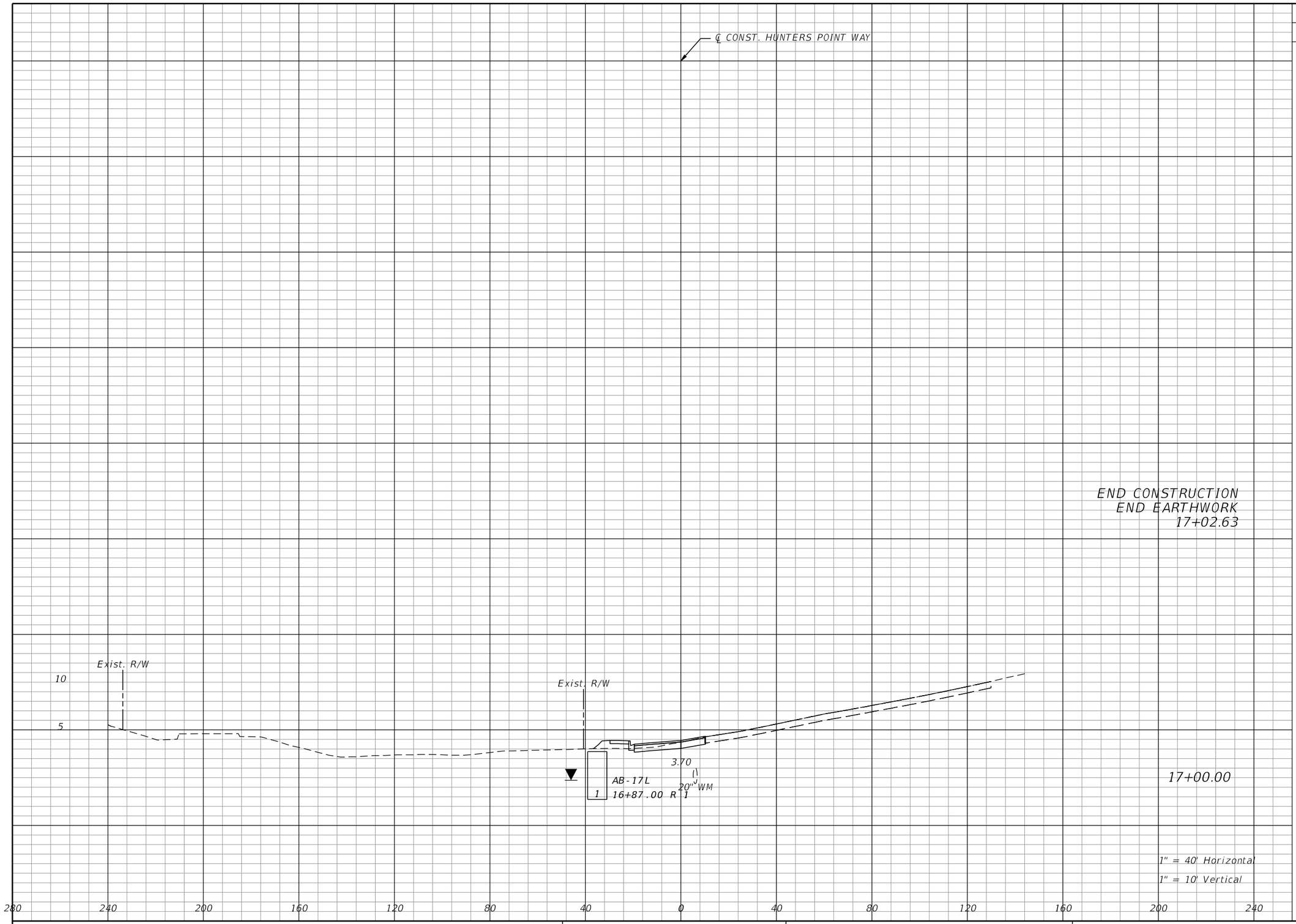
WILLIAM C. COGAN, P.E.
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H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
HUNTERS POINT WAY

SHEET NO. 132



Regular Exc.		Embankment	
A	V	A	V
16	15	8	76

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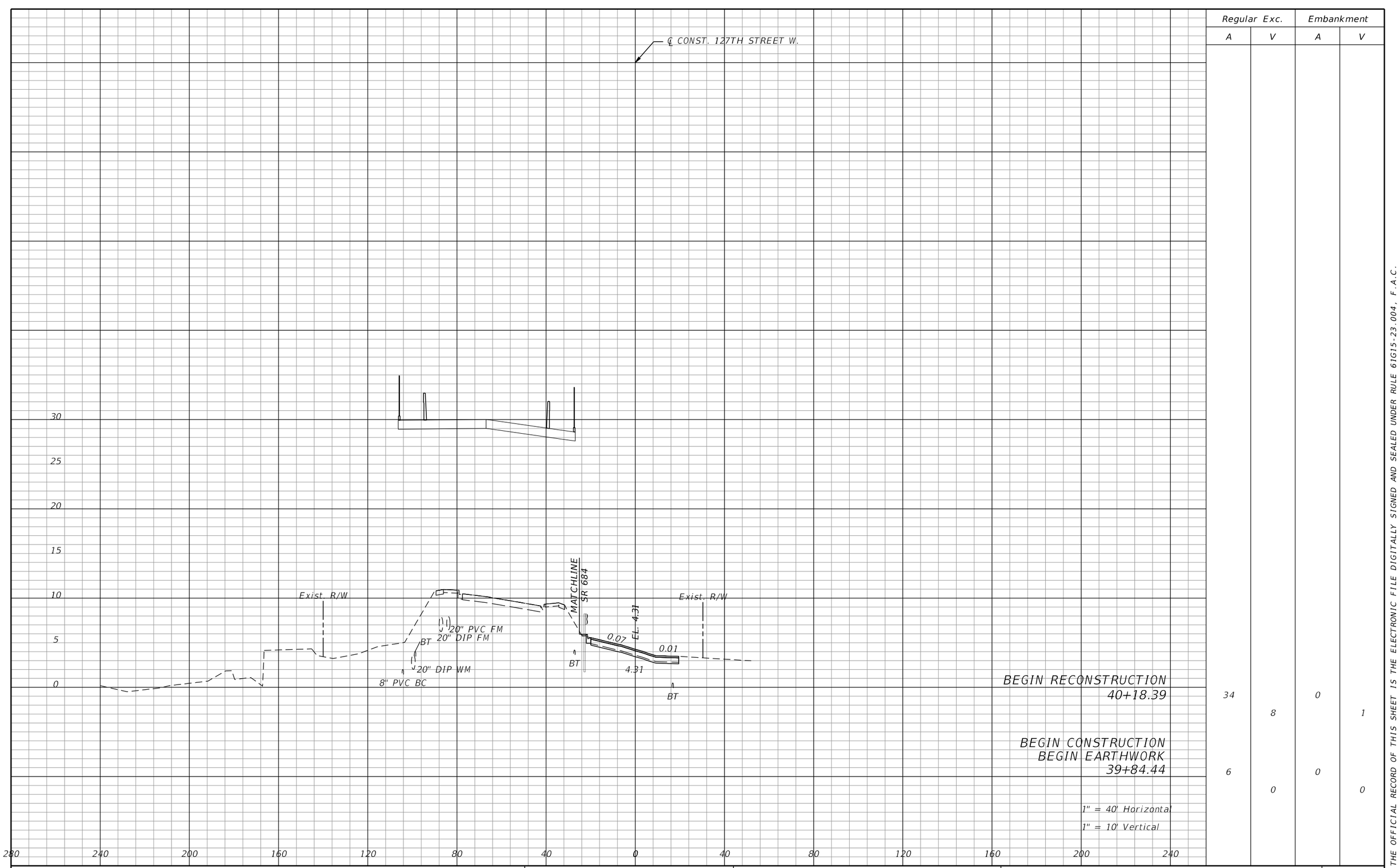
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
HUNTERS POINT WAY

SHEET NO. 133



BEGIN RECONSTRUCTION
40+18.39

BEGIN CONSTRUCTION
BEGIN EARTHWORK
39+84.44

1" = 40' Horizontal
1" = 10' Vertical

Regular Exc.		Embankment	
A	V	A	V
34	8	0	1
6	0	0	0

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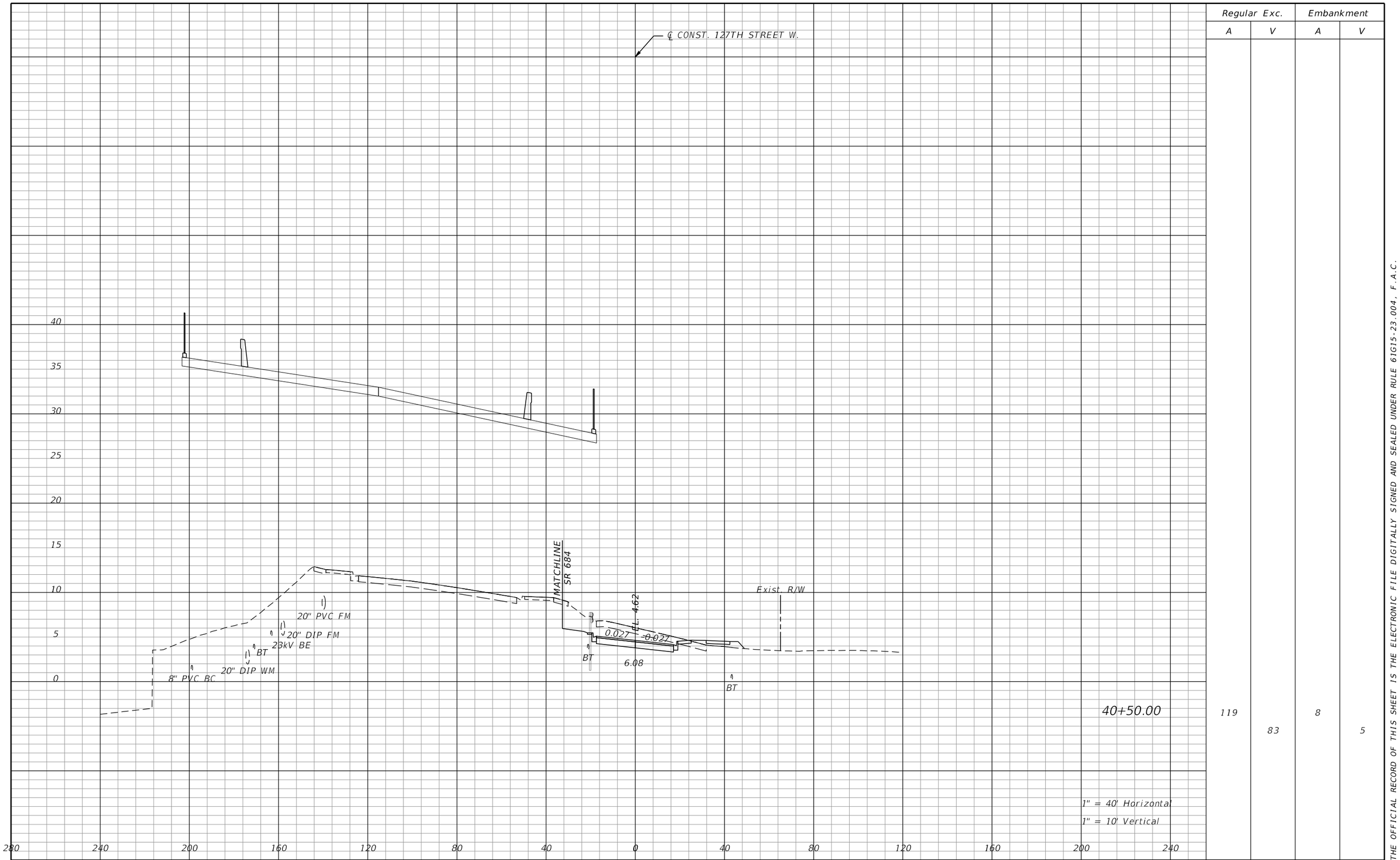
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
127TH STREET W.

SHEET NO. 134



Regular Exc.		Embankment	
A	V	A	V
119	83	8	5

40+50.00

1" = 40' Horizontal

1" = 10' Vertical

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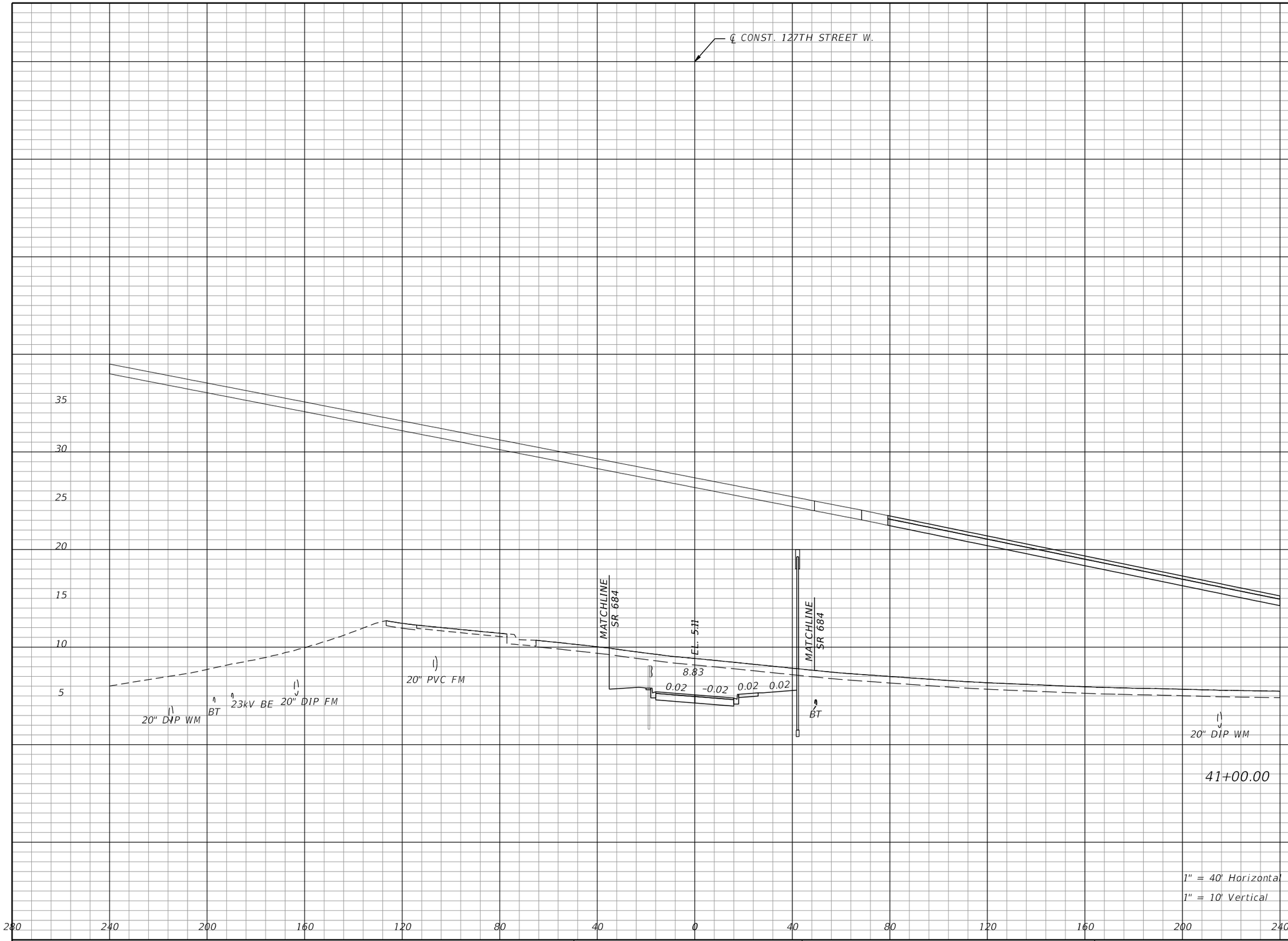
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS 127TH STREET W.

SHEET NO. 135



Regular Exc.		Embankment	
A	V	A	V
301	389	0	8

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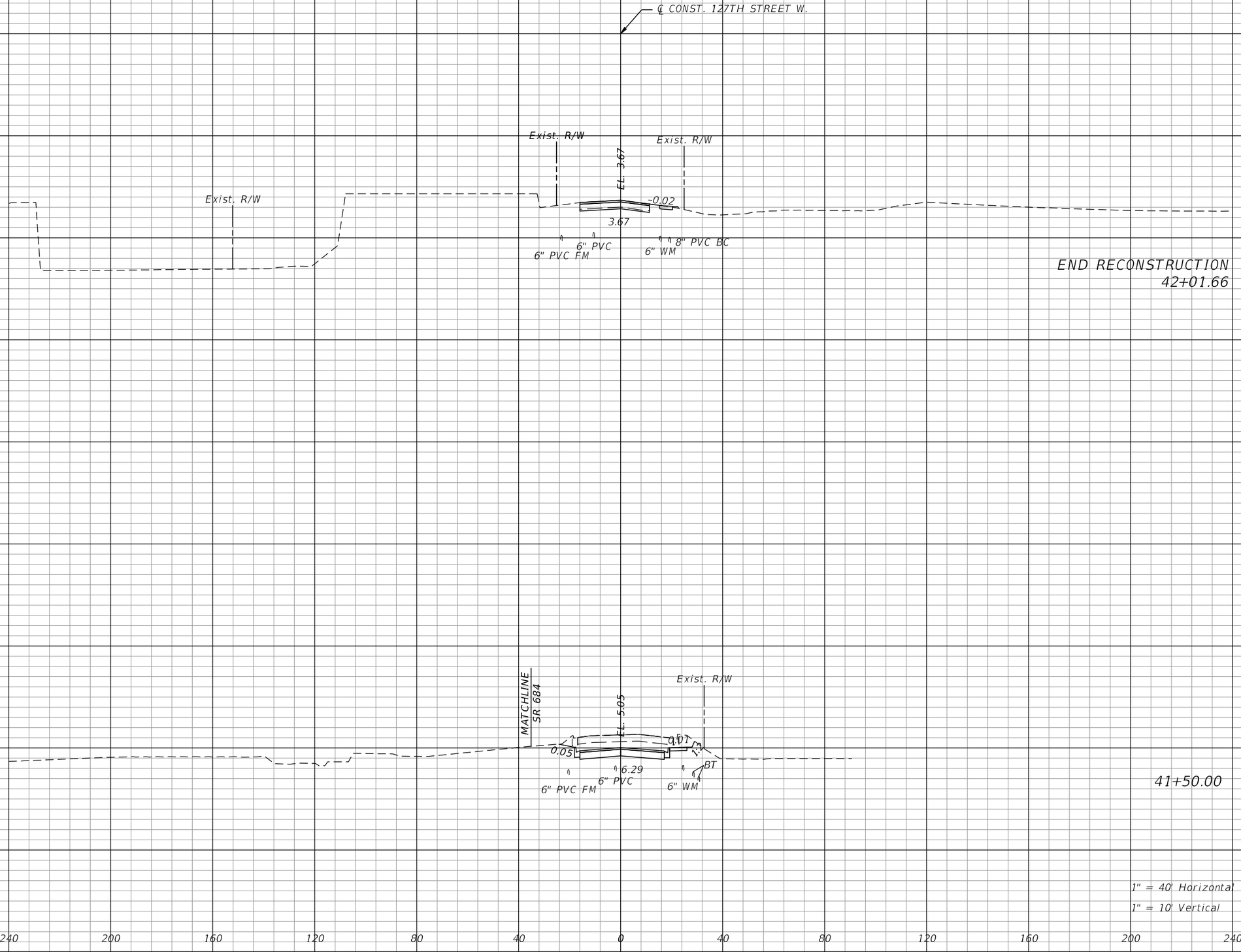
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TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
127TH STREET W.

SHEET NO. 136



Regular Exc.		Embankment	
A	V	A	V
24	115	0	0
95	367	0	0

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
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H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

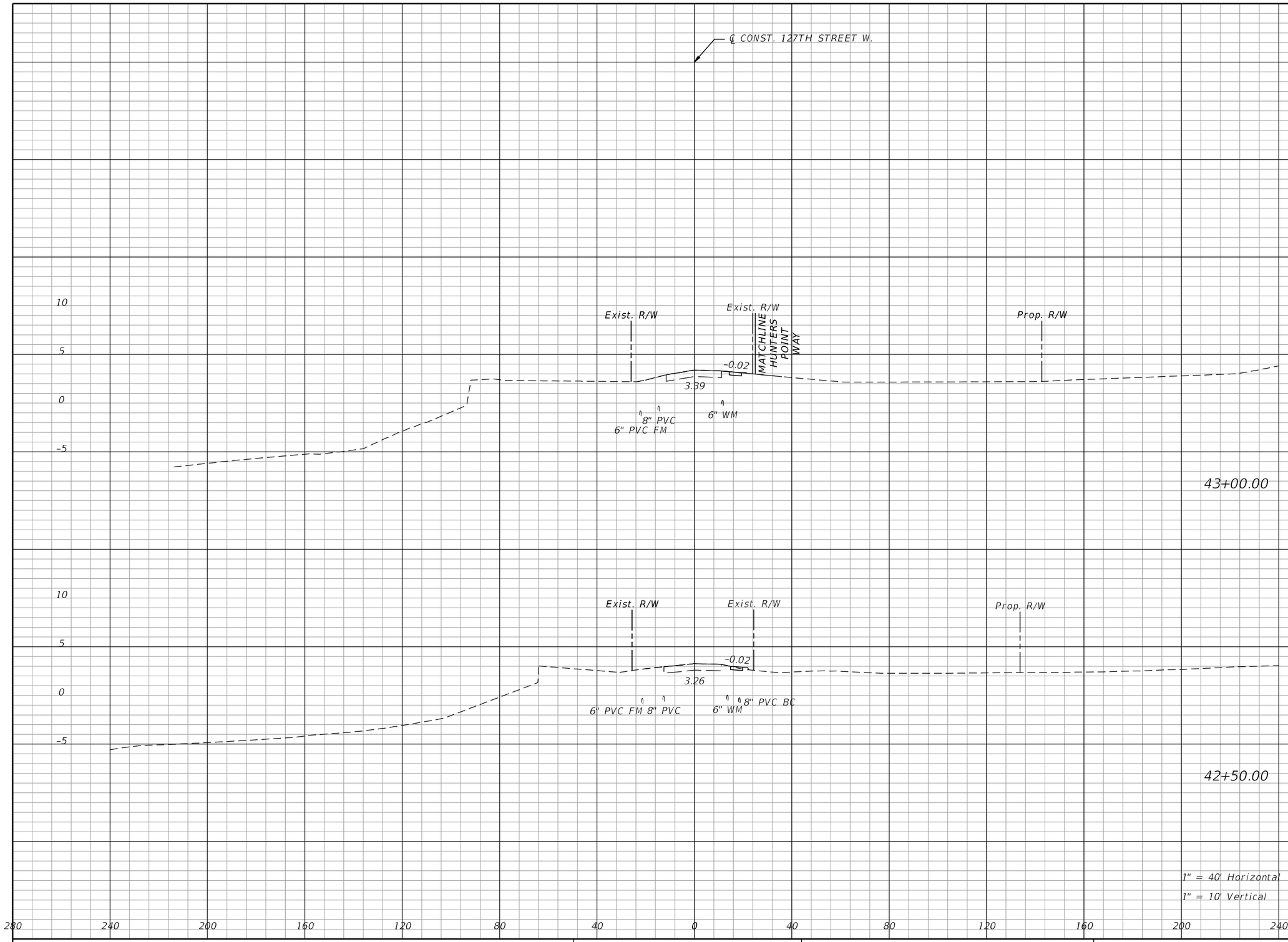
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
127TH STREET W.

SHEET NO. 137

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Regular Exc.		Embankment	
A	V	A	V
2	3	0	1
1	23	1	1

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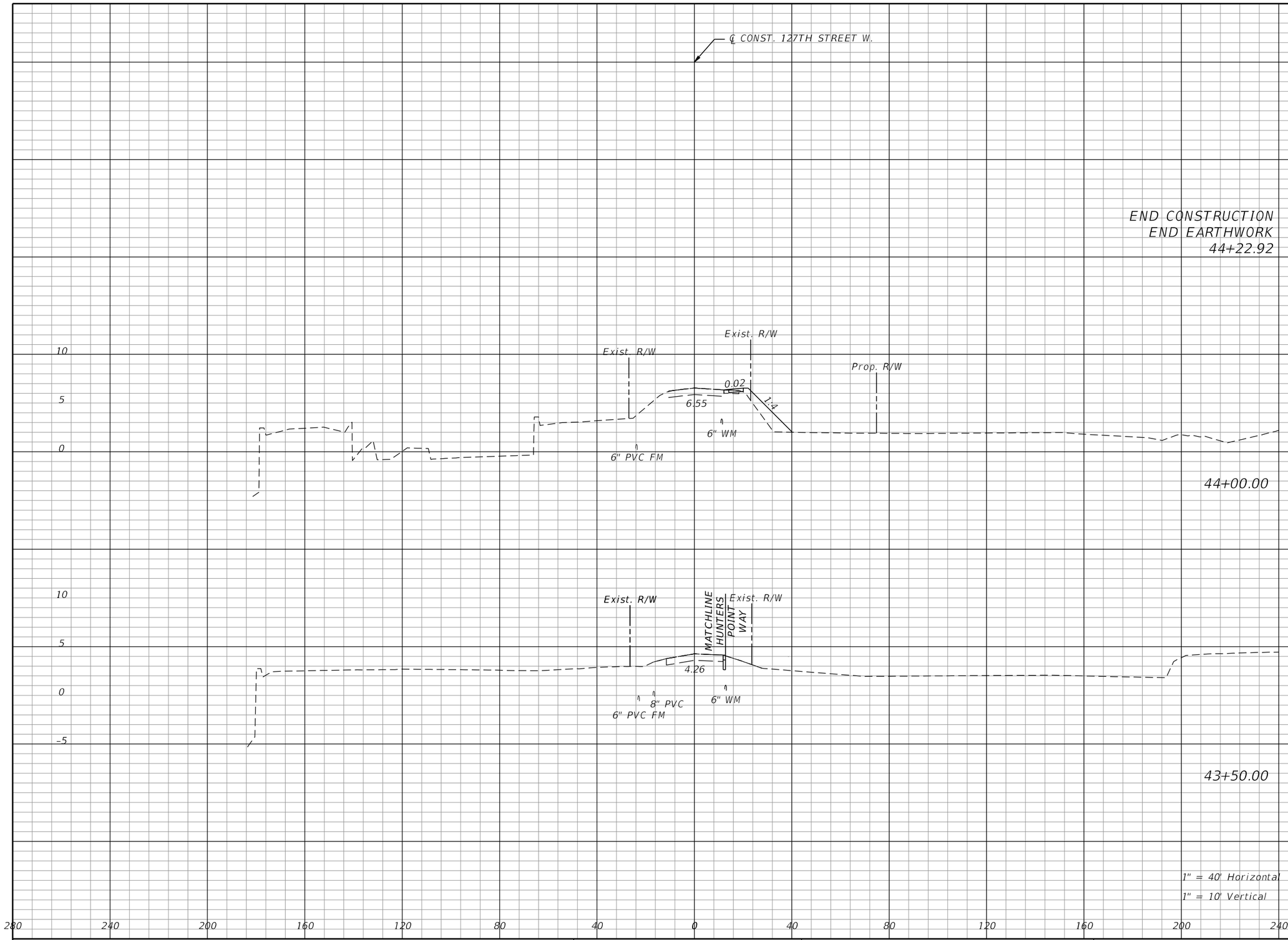
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
127TH STREET W.

SHEET NO. 138



Regular Exc.		Embankment	
A	V	A	V
1	1	23	21
1	2	23	21
1	3	0	0

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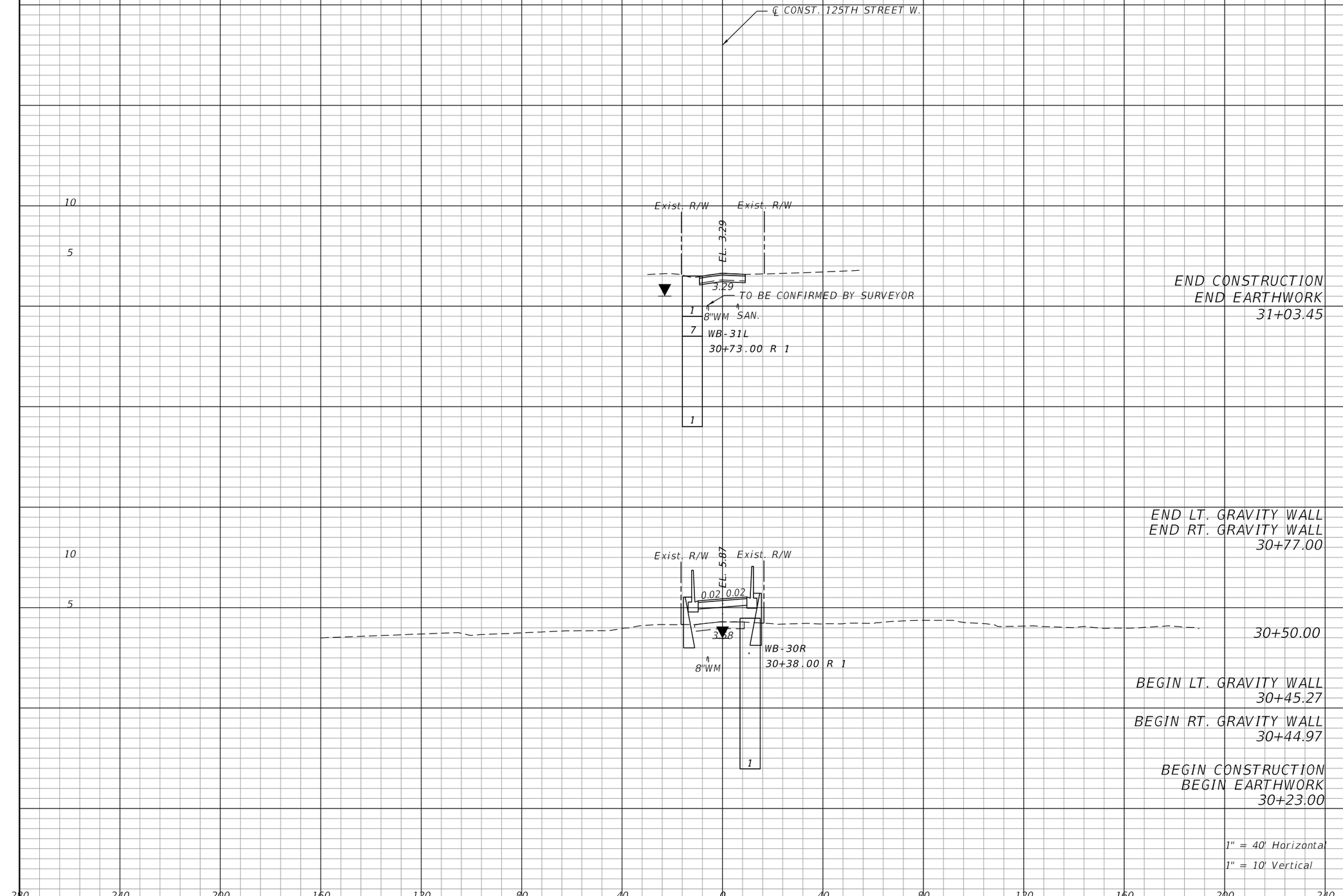
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
127TH STREET W.

SHEET NO. 139



	Regular Exc.		Embankment	
	A	V	A	V
END CONSTRUCTION END EARTHWORK 31+03.45	15	17	0	0
END LT. GRAVITY WALL END RT. GRAVITY WALL 30+77.00				
30+50.00	17	17	42	42
BEGIN LT. GRAVITY WALL 30+45.27				
BEGIN RT. GRAVITY WALL 30+44.97				
BEGIN CONSTRUCTION BEGIN EARTHWORK 30+23.00	17	0	42	0

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1" = 10' Vertical

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

CROSS SECTIONS
125TH STREET W.

SHEET NO. 140

THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS PROVIDED TO ASSIST THE CONTRACTOR IN DEVELOPING THE REQUIRED SITE SPECIFIC EROSION CONTROL PLAN AND OTHER ITEMS NECESSARY TO OBTAIN COVERAGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERIC PERMIT (CGP). REFER TO THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL FOR ADDITIONAL REQUIREMENTS.

1.0 SITE DESCRIPTION:

(1.A.) NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT IS THE RECONSTRUCTION OF THE SR 684 (CORTEZ ROAD) BRIDGE, FROM A LOW-LEVEL BASCULE BRIDGE TO A HIGH-LEVEL FIXED BRIDGE IN MANATEE COUNTY. THIS INVOLVES CONSTRUCTING BRIDGE SUPERSTRUCTURE, RETAINING WALLS, ROADWAY SURFACE, CURB AND GUTTER, SIDEWALK, UNDERGROUND STORM DRAIN SYSTEMS, AND STORMWATER MANAGEMENT FACILITIES. THE PROJECT EXTENDS FROM SR 789 (GULF DR) TO EAST OF 123RD ST CT W. A DISTANCE OF 0.9 MILES.

(1.B.) INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE CONTRACTOR'S SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN, PREPARE A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT. FOR ADDITIONAL INFORMATION, REFER TO SECTION 4.7 OF THE NPDES CGP.

LIST OF INTENDED ACTIVITIES:

(I.B.1.) FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS PRIOR TO CLEARING AND GRUBBING OR ANY OTHER CONSTRUCTION ACTIVITIES. REMOVE PERIMITER CONTROLS ONLY AFTER ALL UPSTREAM AREAS AREAS ARE STABILIZED AND PERMANENT VEGETATION IS ESTABLISHED.

(I.B.2.) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CHANGES OR WEATHER EVENTS.

(1.B.3.) THE CONTRACTOR WILL PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING ALL PHASES OF CONSTRUCTION.

(I.B.4.) OFFSITE RUNOFF SHOULD BE DIVERTED AWAY OR THROUGH THE CONSTRUCTION AREA, IF POSSIBLE. THIS ADDITIONAL FLOW, IF NOT DIVERTED, CAN ADD VOLUME AND SIZE TO STRUCTURAL PRACTICES, REQUIRING MORE FREQUENT MAINTENANCE AND LIMITING EFFECTIVENESS OF EROSION AND SEDIMENT CONTROLS.

(1.C.) PROJECT AREA ESTIMATES:

TOTAL SITE AREA: 23.8 ACRES.
TOTAL AREA TO BE DISTURBED: 7.4 ACRES.

(1.D.) RUNOFF DATA:

RUNOFF COEFFICIENTS BEFORE Cw (B), DURING Cw (D) AND AFTER Cw (A) CONSTRUCTION.

RUNOFF COEFFICIENTS FOR:
GRASSED SHOULDERS ADJACENT TO ROADWAY: C=0.35
IMPERVIOUS ROADWAYS AND PAVED SHOULDER: C=0.95
DISTURBED AREAS, EXPOSED SOIL, ETC., DURING CONSTRUCTION: C=0.40

WEIGHTED RUN-OFF COEFFICIENT:
BEFORE: Cw (B) = 0.54 DURING: Cw (D) = 0.61 AFTER: Cw (A) = 0.68

THE RUN-OFF COEFFICIENT Cw (D), IS CALCULATED ASSUMING THAT THE MAXIMUM ALLOWABLE AREA OF SOIL IS DISTURBED DURING CONSTRUCTION AND THE REMAINING AMOUNT IS THE EXISTING IMPERVIOUS AND GRASSED SHOULDER AREAS.

SOIL DATA:

IN GENERAL, THE SOILS ARE SANDS AND SANDS WITH SILT AND SHELL. SOIL DEPTHS RANGE FROM 20 TO 65 FEET BELOW GROUND SURFACE AND ARE UNDERLAIN BY FIRM TO HARD SILT AND CLAY LAYERS, AND/OR WEATHERED LIMESTONE.

SOIL TYPE	HYDROLOGIC GROUP	DEPTH TO SHWE
8 - CANAVERAL FINE SAND (26%)	A	1.5' - 3.5'
10 - CANAVERAL SAND, ORGANIC SUBSTRATUM (10%)	A	2.5' - 5.0'
20 - EAUGALLIE-EAUGALLIE WET, FINE SAND (26%)	A/D	0.5' - 1.5'
21 - ESTERO MUCK, TIDAL (20%)	A/D	0.0'
33 - MYAKKA FINE SAND, TIDAL (19%)	A/D	0.0'

REFERENCE: USDA SOIL SURVEY OF MANATEE COUNTY FLORIDA

OUTFALL INFORMATION:

THERE ARE 4 OUTFALLS.

THE OUTFALLS DISCHARGE INTO THE FOLLOWING BASINS:

BASIN	WBID	PARAMETER(S) OF CONCERN FOR 303(d) LISTING
ANNA MARIA SOUND (SARASOTA BAY)	1968B	BACTERIA (IN SHELLFISH)

OUTFALL LOCATIONS: (TEMPORARY AND PERMANENT)

	DESCRIPTION	DRAINAGE AREA	LATITUDE	LONGITUDE	RECEIVING WATERBODY
(a)	1 - 24"X38" ERCP (EX. STR. #19)	5.03 AC	N 27°28' 07"	W 82°41' 51.6"	ANNA MARIA SOUND
(b)	1 - 24" RCP (SMF 3)	2.78 AC	N 27°28' 06.6"	W 82°41' 51.2"	ANNA MARIA SOUND
(c)	1 - 30" RCP (EX. STR. #51)	12.4 AC	N 27°28' 11.6"	W 82°41' 12.5"	ANNA MARIA SOUND
(d)	1 - 15" CPP (EX. STR. #28)	1.25 AC	N 27°28' 12.9"	W 82°41' 21.6"	ANNA MARIA SOUND

THIS FACILITY DOES NOT DISCHARGE TO WATERS LISTED ON THE ADOPTED FDEP VERIFIED LIST OR ADOPTED TMDL FOR IMPAIRMENT DUE TO TOTAL SUSPENDED SOLID, TURBIDITY, NUTRIENTS, DISSOLVED OXYGEN, OR FECAL COLIFORM.

ANNA MARIA SOUND IS PART OF THE SARASOTA BAY ESTUARINE SYSTEM AND IS CLASSIFIED AS AN OUTSTANDING FLORIDA WATER (OFW). SEAGRASS BEDS ARE PRESENT WITHIN ANNA MARIA SOUND.

WETLAND AND/OR SURFACE WATER IMPACTS SHALL BE LIMITED TO THE AREAS DESCRIBED IN THE APPROVED PERMITS FOR THE PROJECT.

(1.E.) SITE MAP:

THE SITE MAP SHALL BE COMPRISED OF THE CONSTRUCTION PLANS AND THE CONTRACTOR'S SITE-SPECIFIC EROSION AND SEDIMENT CONTROL PLAN.

(I.F.) STORMWATER MANAGEMENT (EXISTING/PROPOSED)

(I.F.1.) EXISTING DRAINAGE FLOWS ARE TYPICALLY FROM WEST TO EAST ON THE BARRIER ISLAND (ANNA MARIA), AND FROM EAST TO WEST ON THE MAINLAND (CORTEZ). THE CROSS SECTION SHEETS AND PLAN-PROFILE SHEETS PROVIDE THE APPROXIMATE SLOPE, AREAS OF SOIL DISTURBANCE AND AREAS TO BE STABILIZED. UNLESS OTHERWISE APPROVED BY THE PERMITS, THE CONSTRUCTION ACTIVITIES SHALL NOT MODIFY OR AFFECT THE EXISTING OFFSITE FLOW PATTERNS.

(I.F.2.) THE PROPOSED SEDIMENT BASINS, CONTAINMENT SYSTEMS AND/OR STORMWATER MANAGEMENT FACILITIES SHALL BE CONSTRUCTED DURING THE INITIAL PHASE OF CONSTRUCTION AND USED DURING CONSTRUCTION OF THE ROADWAY. THE OUTFALL STRUCTURES ARE TO BE PROTECTED WHEN TEMPORARY SEDIMENT BASINS, CONTAINMENT SYSTEMS OR PERMANENT STORMWATER MANAGEMENT FACILITIES ARE USED FOR EROSION AND SEDIMENT CONTROL TO PREVENT DOWNSTREAM SEDIMENTATION.

2. CONTROLS:

(2.A.) SEDIMENT AND EROSION CONTROLS

(2.A.1.) PER SECTION 5.4 OF THE NPDES CGP, STABILIZATION SHALL TAKE PLACE AS SOON AS PRACTICAL IN PORTIONS OF THE PROJECT WHERE CONSTRUCTION ACTIVITIES HAVE CEASED, BUT NO LATER THAN 7 DAYS AFTER ANY CONSTRUCTION ACTIVITY CEASES EITHER TEMPORARILY OR PERMANENTLY.

(2.A.2) SEDIMENT BARRIERS SHALL BE USED AROUND THE PERIMETER OF STOCKPILE AREAS.

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

STORMWATER POLLUTION PREVENTION PLAN (1)

SHEET NO. 141

(2.A.3.) STRUCTURAL PRACTICES

IN THE CONTRACTOR'S SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN, DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES MAY INCLUDE THE FOLLOWING, AS APPROVED BY THE ENGINEER:

TEMPORARY DEVICES:
* SILT FENCE

* STAKED TURBIDITY BARRIERS

* SOIL TRACKING PREVENTION DEVICES AT CONSTRUCTION ENTRANCES/EXITS

* FLOATING TURBIDITY BARRIERS

* INLET PROTECTION SYSTEMS INCLUDING SYNTHETIC BALES AND SANDBAGS

* SEDIMENT BASIN/CONTAINMENT SYSTEMS

* CHEMICAL TREATMENTS SUCH AS POLYACRYLAMIDES AND ALUM

PERMANENT:
* STORMWATER PONDS

* SOD (MAY ALSO BE USED FOR TEMPORARY CONTROLS)

* VELOCITY DISSIPATION DEVICES SUCH AS RIPRAP OR OTHERS

(2.B.) WATER QUALITY MONITORING

(2.B.1.) WATER QUALITY MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIAL CONDITIONS OF ANY ENVIRONMENTAL PERMIT, OR BY THE CONTRACTOR UPON THE OBSERVATION THAT WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS MAY BE SPECIFIED IN THE ENVIRONMENTAL PERMIT OR MAY BE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

(2.B.2.) THE ENGINEER WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (NO GREATER THAN 29 NEPHELOMETRIC TURBIDITY UNITS (NTUs) ABOVE BACKGROUND OR GREATER THAN 0 NTUs ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OUTSTANDING FLORIDA WATERS (OFWs)).

(2.B.3.) IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHALL BE STOPPED IMMEDIATELY. THE ENVIROMENTAL PERMIT CONDITIONS FOLLOWED AND EROSION AND SEDIMENT CONTROL DEVICES REEVALUATED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (LESS THAN 29 NTUs ABOVE BACKGROUND OR LESS THAN 0 NTUs ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFWs).

(2.B.4.) WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.

(2.C.) DEWATERING CONTROLS

THE SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN SHALL INCLUDE A DESCRIPTION OF THE BMPs THAT WILL BE USED TO ENSURE THAT DISCHARGES OF NONCONTAMINATED GROUND WATER FROM DEWATERING OPERATIONS DO NOT CAUSE OR CONTRIBUTE TO VIOLATIONS OF STATE WATER QUALITY STANDARDS.

(2.D.) OTHER CONTROLS

(2.D.1.) THE SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN SHALL IDENTIFY CHEMICAL AND FUEL STORAGE AREAS, MEANS OF MINIMIZING EXPOSURE TO STORMWATER, AND SPILL PREVENTION.

(2.D.2.) OFFSITE VEHICLE TRACKING & GENERATION OF DUST

IN THE SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN, DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

(2.D.2.a.) LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPAULIN.

(2.D.2.b.) REMOVING EXCESS DIRT FROM ROADS DAILY.

(2.D.2.c.) USING WATER TRUCKS DURING DUST-GENERATING ACTIVITIES.

(2.D.2.d.) SEDIMENT CONTROL MAY BE ACCOMPLISHED BY USING STREET OR VACUUM SWEEPERS.

3. MAINTENANCE

MAINTAIN AND REPAIR ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED. REMOVE AND PROPERLY DISPOSE OF SEDIMENT BUILDUP THROUGH THE LIFE OF THE INSTALLED EROSION AND SEDIMENT CONTROL DEVICES.

(3.A.) IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF NOTICE.

(3.B.) SEDIMENT BARRIERS SHALL BE REPLACED WHEN IT IS NO LONGER EFFECTIVE OR AS DIRECTED BY THE ENGINEER.

(3.C.) STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

(3.D.) REMOVE SEDIMENT FROM SEDIMENT BASINS WHEN IT BECOMES MORE THAN HALF THE AVAILABLE VOLUME.

4. INSPECTION, TRACKING, AND REPORTING

INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD RAINFALL.

(4.A.) SUBMIT A WEEKLY REPORT TO THE DEPARTMENT DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE EROSION AND SEDIMENT CONTROL DEVICES. MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS.

(4.B.) PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION AND SEDIMENT CONTROL DEVICES.

(4.C.) USE THE SWPPP CONSTRUCTION INSPECTION REPORT FORM # 650-040-03, FOR DAILY INSPECTIONS.

5. NON-STORMWATER DISCHARGES

THE SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES AND DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION. THE PLAN SHALL INCLUDE PROCEDURES FOR SPILL CONTAINMENT, REPORTING AND RESPONSES. THE PLAN SHALL SPECIFY WHAT MANAGEMENT PRACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL, LUBRICANTS, HERBICIDES, ETC.) FROM SPILLING ONTO THE SOIL OR INTO THE SURFACE WATERS. IF A SPILL DOES OCCUR OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT THE DISTRICT CONTAMINATION IMPACT COORDINATOR AT 863-519-2300 AND THE ENGINEER. IF A RELEASE CONTAINING HAZARDOUS SUBSTANCES OCCURS, CONTACT THE FLORIDA STATE WATCH OFFICE AT 800-320-0519 OR 850-413-9911 PER SECTION 9.2 OF THE CGP.

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LISANDRO A. ZAPATA, P.E.
P.E. LICENSE NUMBER 58822
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

STORMWATER POLLUTION PREVENTION PLAN (2)

SHEET NO. 142

GENERAL:

1. THE TEMPORARY REGULATORY SPEED LIMIT FOR SR 684 IS 35 MPH DURING CONSTRUCTION, UNLESS OTHERWISE SHOWN ON THE TRAFFIC CONTROL PLANS.

2. UNLESS OTHERWISE SPECIFIED, THE CROSS SLOPE FOR ALL TEMPORARY PAVEMENT WHICH ABUTS EXISTING OR NEW PAVEMENT SHALL MATCH THE CROSS SLOPE OF THE ABUTTING TRAVEL LANE PAVEMENT. CONSTRUCT TEMPORARY PAVEMENT ADJACENT TO EXISTING SHOULDER IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 102-601 & 102-602. TEMPORARY LANE CLOSURES ARE REQUIRED AT LOCATIONS WHERE TRAFFIC IS SHOWN TRAVELING ON TEMPORARY PAVEMENT THAT IS BEING CONSTRUCTED IN THE SAME PHASE/STAGE, BUT PRIOR TO SHIFTING TRAFFIC ONTO IT. USE FDOT STANDARD PLANS INDEX NO. 102-603 OR 102-613 AS APPLICABLE FOR TEMPORARY LANE CLOSURES.

3. THE STRAIGHT, DIRECTIONAL ARROWS ON THE TTCP PLAN SHEETS DENOTE DIRECTION OF VEHICULAR TRAFFIC ONLY, AND DO NOT REPRESENT ACTUAL PAVEMENT MARKINGS.

4. MAINTAIN PEDESTRIAN TRAFFIC ON TEMPORARY SIDEWALKS IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 102-660.

5. A LANE MAY BE CLOSED ONLY DURING THE FOLLOWING TIMES:
   NO RESTRICIONS - OPEN ROAD LANE CLOSURE
   9:30 PM TO 7:30 AM - SIGNALIZED LANE CLOSURE WITHIN 600' OF SIGNALIZED INTERSECTION

6. ALL RELEVANT EXISTING REGULATORY SIGNS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

7. EXISTING ROAD AND STREET NAME SIGNS ON THE PROJECT ARE, IF NEEDED, TO BE TEMPORARILY RELOCATED DURING CONSTRUCTION AND KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF EMERGENCY VEHICLE TRAFFIC, AND PAID FOR UNDER PAY ITEM NO. 102-1.

8. RELOCATE THE EXISTING STOP SIGNS AT ALL SIDE STREETS AND DRIVEWAYS WHICH CROSS THE PROPOSED ROADWAY TO THE TEMPORARY STOP BAR LOCATIONS SHOWN IN THE PLANS, PAID FOR UNDER PAY ITEM NO. 102-1.

9. WHERE FEASIBLE, CONSTRUCT APPLICABLE TEMPORARY DRIVEWAYS SHOWN IN THE PLANS WITH 25' RADIAL RETURNS.

10. MAINTENANCE OF BOAT TRAFFIC

    A) AN OPEN, NAVIGABLE WATERWAY SHALL BE MAINTAINED ALONG SARASOTA BAY FOR THE DURATION OF CONSTRUCTION ACTIVITIES, EXCEPT AS PERMITTED BY THE U.S. COAST GUARD.
    B) NOTIFY THE U.S. COAST GUARD SEVENTH DISTRICT ADMINISTRATION OFFICE IN MIAMI, FLORIDA 30 DAYS PRIOR TO COMMENCEMENT OF BRIDGE CONSTRUCTION ACTIVITIES WITHIN THE WATERWAY, ANY ACTIONS THAT COULD AFFECT WATERAY USERS, AND PRIOR TO PLACEMENT OF ANY FLOATING CONSTRUCTION EQUIPMENT IN THE WATERWAY.
    C) ALL CONSTRUCTION EQUIPMENT SHALL BE MARKED IN ACCORDANCE WITH U.S. COAST GUARD NAVIGATIONAL REQUIREMENTS AND REMOVED FROM THE CHANNEL WHEN NOT ACTIVELY ENGAGED IN CONSTRUCTION ACTIVITIES. SEE STRUCTURES PLANS FOR ADDITONAL NOTES REGARDING BRIDGE FENDER SYSTEM.
    D) NO WORK WILL BE PERMITTED ABOVE BOAT TRAFFIC. FOR OPERATIONS ABOVE THE MAIN CHANNEL, PROVIDE A GUIDE VESSEL TO ESCORT BOAT TRAFFIC THROUGH THE WORK ZONE WHILE CONSTRUCTION ACTIVITIES ARE PAUSED. ALL VESSELS ASSOCIATED WITH THE CONSTRUCTION PROJECT WILL OPERATE AT "IDLE SPEED/NO WAKE" AT ALL TIMES. POST NOTICES AT MARINAS AND BOAT LAUNCH FACILITIES IN SARASOTA BAY INFORMING LOCAL BOATERS OF ANY CONSTRUCTION ACTIVITIES THAT MAY IMPACT BOAT TRAFFIC.
    E) PROVIDE AND INSTALL "CAUTION BRIDGE WORK" SIGNS TO THE SUBSTRUCTURE (OR OTHER LOCATIONS APPROVED BY THE ENGINEER) OF THE EXISTING AND PROPOSED BRIDGE IN LOCATIONS WHERE ACTIVE BRIDGE WORK IS TAKING PLACE TO BE CLEARLY VISIBLE TO MARINE TRAFFIC. ALL SIGNS MUST BE DESIGNED AND INSTALLED TO BE CONSISTENT WITH FLORIDA UNIFORM WATERWAY MARKERS. THE GUIDELINES CAN BE FOUND BY VISITING WWW.MYFWC.COM.



SIGN DIMENSIONS: 5' X 3' SIGN WITH 6" LETTERS

COLOR: BLACK LETTERS AND BORDER
ON ORANGE BACKGROUND

11. MAINTENANCE OF PADDLING TRAIL TRAFFIC

    A) THE EXISTING PALMA SOLA BAY AND BARRIER ISLAND PADDLING TRAILS SHALL BE MAINTAINED FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
    B) PROVIDE AND INSTALL "PADDLING TRAIL DETOUR" SIGNS TO THE SUBSTRUCTURE (OR OTHER LOCATIONS APPROVED BY THE ENGINEER) OF THE EXISTING BRIDGE, PROPOSED BRIDGE AND TEMPORARY WORK STRUCTURES AT INTERVALS NOT GREATER THAN 175-FEET. SIGNS SHALL BE CLEARLY VISIBLE TO NON-MOTORIZED WATER TRAFFIC. THE "PADDLING TRAIL DETOUR" SIGNS SHALL BE ADJUSTED AS NEEDED TO BE CONSISTENT WITH CONSTRUCTION ACTIVITIES.

12. NOTIFY MANATEE COUNTY AREA TRANSIT (MCAT) FOURTEEN (14) BUSINESS DAYS PRIOR TO PERFORMING ANY WORK IN THE VICINITY OF AN EXISTING TRANSIT STOP (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.

LEGEND

- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- CHANNELIZING DEVICE
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE (LCD)
- TEMPORARY MSE WALL
- TEMPORARY CRITICAL SHEET PILE WALL
- CC — CRASH CUSHION
- TYPE III BARRICADE
- WORK ZONE SIGN
- ADVANCE WARNING ARROW PANEL
- TEMP. ASPH. PAVT. FOR SPECIAL DETOUR
- TEMP. MISC. ASPH. PAVT. FOR SPECIAL PEDESTRIAN DETOUR
- PAVT. MILLING & RESURFACING OR JACK & BORE PIT
- WORK ZONE
- EXISTING BRICK PAVEMENT
- STOP — EXISTING OR RELOCATED 'STOP' SIGN
- STOP — TEMPORARY 'STOP' SIGN
- STOP — PERMANENT 'STOP' SIGN (PAID FOR UNDER S&PM)

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
GENERAL NOTES

SHEET NO. 143

PHASE	WEST BRIDGE APPROACH	BRIDGE	EAST BRIDGE APPROACH
1A	A) Close south side of Cortez Road and existing bridge to pedestrian traffic. B) Construct temporary asphalt pavement and sidewalk along south side of Cortez Road from Sta. 205+73 to Sta. 210+77. Any drop-off condition that is created must be restored within the same work period. Eastbound travel lane must be temporarily closed per Standard Plans Index 102-603 to construct temporary pavement from Sta. 208+89 to Sta. 210+77. C) Jack & bore cross drain pipe between S1-3 and S1-6 near Sta. 206+10. D) When complete, shift vehicular and pedestrian traffic onto temporary pavement, as shown in TTCP Phase 1B plan sheets.	A) While maintaining boat traffic in channel, construct north side of bridge substructure (Piers 3-17) and superstructure (Spans 3-15) and install Type K Barrier for Spans 3-15. B) Construct north ends of proposed fender system and demolish north ends of existing fender system, terminating both existing and proposed fender systems at approximately 16' RT of the CL Const. SR 684.	A) Close south side of existing bridge to pedestrian traffic. B) Construct temporary roadway alignment at east end of existing bridge and temporary sidewalk along south side of Cortez Road. Stage-construct temporary asphalt pavement where necessary to maintain access to Tide Tables restaurant parking lot. Any drop-off condition that is created must be restored within the same work period. Install proposed drainage pipe and structures from Sta. 244+55 to Sta. 246+20 RT. C) Construct SMF 4B, Hunters Point Way and temporary connection for Hunters Point Way from existing Cortez Road to Sta. 11+75 to provide access to 127th Street W. Where applicable install permanent regulatory signs, including STOP signs at side streets. When complete, post 127th Street W. detour signs and open Hunters Point Way to through traffic. D) When complete, shift vehicular and pedestrian traffic onto temporary pavement, as shown in TTCP Phase 1B plan sheets.
1B	A) Close north side of Cortez Road and existing bridge to pedestrian traffic. B) Install temporary sheet piling. Construct proposed storm sewer, full-depth pavement and widening, curb & gutter, guardrail, retaining wall, and sidewalk on north side of Cortez Road using temporary MSE wall. C) Place temporary pavement upstream of saw cut line and, if necessary, a partial lift of structural course for the widened pavement in the NE return to ensure positive drainage to curb inlet S1-5A. D) Mill, overbuild, and resurface pavement on north side of Cortez Road from Sta. 207+20 to Sta. 207+50. Adjust travel lanes or use flaggers if necessary to mill, overbuild, and resurface pavement in middle section of Cortez Road from Sta. 207+20 to Sta. 207+50. Any drop-off condition that is created must be restored within the same work period. E) When complete, shift vehicular, bicycle, and pedestrian traffic to north side of proposed road and bridge, as shown in TTCP Phase 2 plan sheets. F) Temp pipe from Existing MH 17 to S1-1A, as shown on sheet 157, to be constructed prior to FPL's work in area.	A) In Phase 1B-1 construct north side of bridge substructure (End Bents 1 & 20 and Piers 2, 18 & 19) and superstructure (Spans 1, 2 and 16-19) and install Type K Barrier for Spans 1, 2 and 16-19. B) In Phase 1B-1 install Type K Barrier to temporarily replace proposed concrete barrier on west end of bridge from Sta. 210+45 to Sta. 212+10.	Stage 1 A) Adjust the timing for the traffic signal at the Gulf Drive intersection as shown on the Temporary Signal Timing sheet. B) Close the north leg of the 127th Street W. & Cortez Road intersection and detour traffic onto Hunters Point Way as shown on Detour 1B-1 plan sheet. Shift Cortez Road traffic onto the temporary pavement constructed in Phase 1A, and direct westbound bike & pedestrian traffic to cross-over onto the south side of Cortez Road at the raised median pedestrian refuge at Sta. 249+60. C) Leaving the temporary Hunters Point Way connection to Cortez Road open, construct proposed storm sewer, full-depth pavement & widening, milling & resurfacing, curb & gutter, guardrail, retaining wall, and sidewalk on north side of Cortez Road using temporary MSE wall. Partially-install three proposed cross drains between Sta. 243+90 and Sta. 246+00 using nighttime lane closures per index 102-603 as needed. Construct sea wall on north side of bridge. Leave the east end of the proposed bridge approach open at the Hunters Point Way intersection to provide access for construction equipment. Construct 25-foot wide full-depth pavement west of the Hunters Point Way intersection, but construct 17-foot wide full-depth pavement & pavement widening east of the Hunters Point Way intersection to provide adequate sight distance. Where applicable install permanent regulatory signs, including STOP signs at side streets. Stage 2 A) Close Hunters Point Way and detour traffic onto 126th Street W. <-> Harbour Landings Drive <-> 119th Street W. as shown on Detour 1B-2 plan sheet to provide temporary access to 127th Street W. while constructing the proposed Hunters Point Way connection to Cortez Road and the remaining full-depth pavement east of the Hunters Point Way intersection using temporary MSE wall. Leave the west end of the proposed bridge approach open at the Hunters Point Way intersection to provide access for construction equipment. B) While maintaining existing driveway access, construct proposed storm sewer, full-depth pavement, curb & gutter, and sidewalk on the segment of 127th Street W. north of the proposed bridge. Where applicable, install permanent STOP signs at side streets. C) When complete, shift vehicular, bicycle, and pedestrian traffic onto Hunters Point Way and north side of proposed Cortez Road and bridge as shown in TTCP Phase 2 plan sheets and remove detour.
2	A) Construct pavement widening along NB to EB ramp and proposed storm sewer, full-depth pavement, curb & gutter, guardrail, retaining wall, and sidewalk on south side of Cortez Road. B) Place temporary pavement upstream of saw cut line and, if necessary, a partial lift of structural course for the widened pavement in the SE return to ensure positive drainage to curb inlet S1-9. C) Mill, overbuild, and resurface pavement on south side of Cortez Road from Sta. 207+20 to Sta. 207+50. Any drop-off condition that is created must be restored within the same work period. D) Construct SMF 3 and adjacent sea wall and sidewalk. E) When complete, shift vehicular, bicycle, and pedestrian traffic as shown in TTCP Phase 3 plan sheets.	A) Demolish the existing bridge and embankment, but maintain the remaining sections of the existing bridge fender system. B) Construct south side of bridge substructure and superstructure for Spans 1-19. Girders for Span 19 may be installed only after the profile for 127th Street W. has been lowered to provide adequate vertical clearance. C) When complete, remove Type K Barrier and shift vehicular, bicycle, and pedestrian traffic as shown in TTCP Phase 3 plan sheets.	A) Detour traffic onto Hunters Point Way as shown on Detour 2 plan sheet. Construct one proposed travel lane overnight to match 127th Street W. roadway profile under bridge Span 19. Open to 1-lane, 2-way traffic using flaggers, then stage-construct remaining segment of 127th Street W. B) Direct westbound bike & pedestrian traffic to cross-over onto the north side of Cortez Road at the raised median pedestrian refuge at Sta. 249+60. C) Detour traffic onto 124th Street W. as shown on Detour 2 plan sheet. Close 125th Street W. and 124th Street Court W. and construct proposed storm sewer, full-depth pavement & widening, milling & resurfacing, curb & gutter, guardrail, retaining wall, gravity walls, and proposed 8' sidewalk on south side of Cortez Road. Construct sea wall on south side of bridge. Where applicable install permanent regulatory signs, including STOP signs at side streets. D) Remove inflatable end caps and install final segments of proposed cross drains between Sta. 243+90 and Sta. 246+00 using open-cut construction. E) Install bridge girders and pour deck concrete for Span 19 over 127th Street W. at night. F) When complete, shift vehicular, bicycle, and pedestrian traffic as shown in TTCP Phase 3 plan sheets.

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H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
PHASE NOTES

SHEET NO. 144

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

PHASE	WEST BRIDGE APPROACH	BRIDGE	EAST BRIDGE APPROACH
3	A) Construct traffic island and its associated pavement widening, as shown in TTCP Phase 3 plan sheet. B) Mill, Resurface & Overbuild existing pavement west of Sta. 207+20, place Friction Course, and place temporary 710-90 pavement markings per Standard Plans Index 102-613. C) After Friction Course cures, place permanent pavement markings.	A) Substantial bridge construction complete. While maintaining boat traffic in channel, construct the remaining sections of the proposed fender system behind the remaining sections of the existing fender system. When construction of the proposed fender system is complete, demolish the remaining sections of the existing fender system. B) Close westbound bike lane and shift westbound bike traffic onto sidewalk. Remove temporary Type K Barrier and install proposed bridge traffic barrier from Sta. 210+45 to Sta. 212+10, as shown in TTCP Phase 3 plan sheets.	STAGE 1 A) Detour EB & WB bicycle traffic onto sidewalks, and shift EB & WB vehicular traffic onto bike lanes as shown on TTCP plan sheets. B) Remove existing raised median and construct temporary pavement from Sta. 249+18.68 to Sta. 249+98.79. Mill, overbuild, and resurface with Friction Course middle portion of existing pavement from Sta. 245+60.00 to Sta. 249+15.00, and from Sta. 250+02.00 to Sta. 250+80.00. STAGE 2 A) Detour WB bicycle traffic onto sidewalk. Shift EB & WB vehicular traffic as shown on TTCP plan sheets. B) Construct WB full-depth asphalt pavement from Sta. 249+15.00 to Sta. 250+02.00. Mill, overbuild, and resurface with Friction Course WB portion of existing pavement from Sta. 245+60.00 to Sta. 249+15.00, and from Sta. 250+02.00 to Sta. 250+80.00. STAGE 3 A) Detour EB bicycle traffic onto sidewalk. Shift EB & WB vehicular traffic as shown on TTCP plan sheets. B) Construct EB full-depth asphalt pavement from Sta. 249+15.00 to Sta. 250+02.00. Mill, overbuild, and resurface with Friction Course EB portion of existing pavement from Sta. 245+60.00 to Sta. 249+15.00, and from Sta. 250+02.00 to Sta. 250+80.00. STAGE 4 A) Detour EB & WB bicycle traffic onto sidewalks, and shift EB & WB vehicular traffic onto bike lanes as shown on TTCP plan sheets. B) Construct proposed raised median and full-depth asphalt pavement from Sta. 249+15.00 to Sta. 250+02.00. STAGE 5 (Not shown in plans) A) Place temporary 710-90 pavement markings by maintaining traffic in a manner similar to that described in Phase 3, Stage 1 - 3 above. Remove bicycle detour and shift EB & WB vehicular traffic onto proposed travel lanes. B) After Friction Course cures, place permanent pavement markings.

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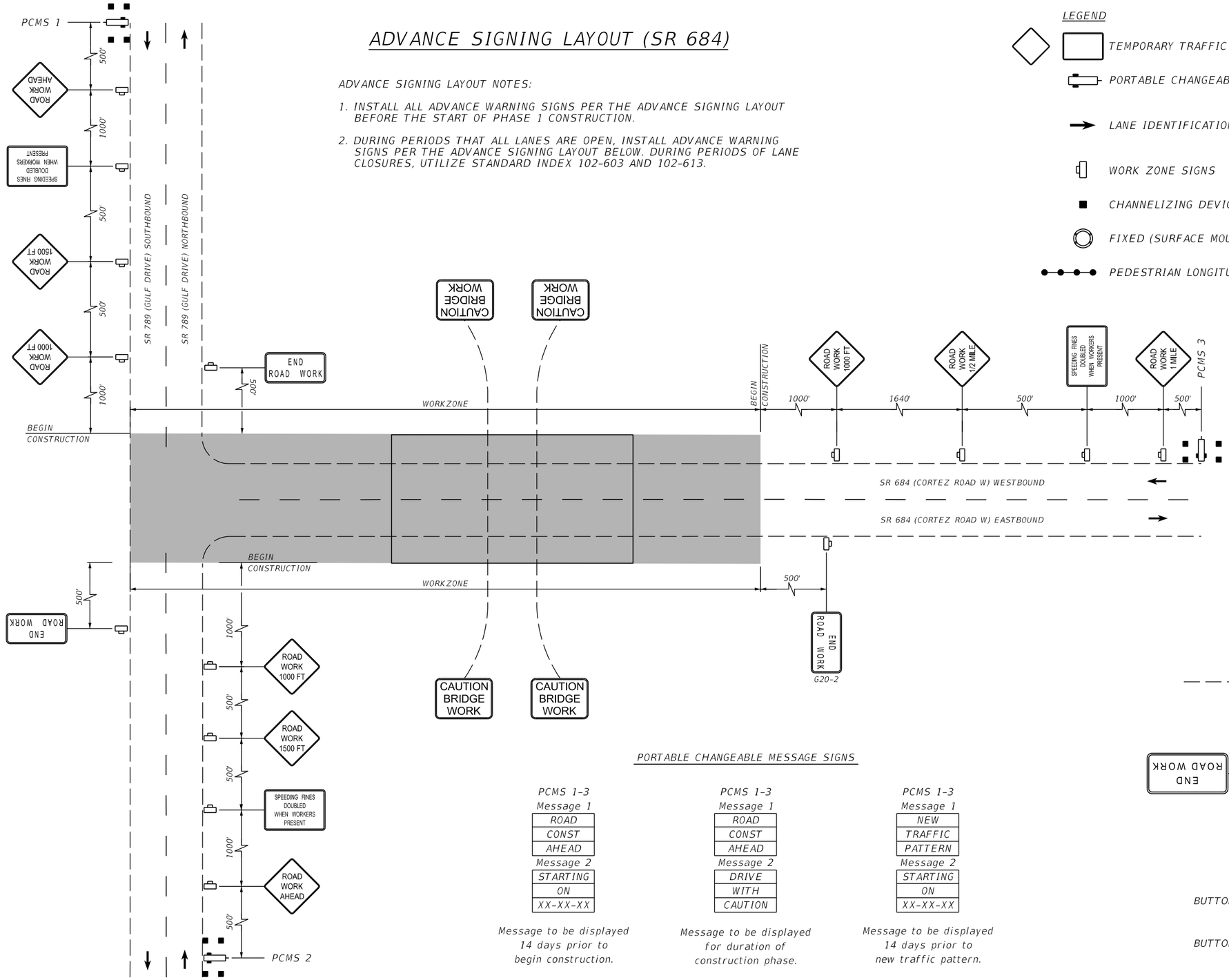
STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
PHASE NOTES

SHEET NO. 145

ADVANCE SIGNING LAYOUT (SR 684)



ADVANCE SIGNING LAYOUT NOTES:

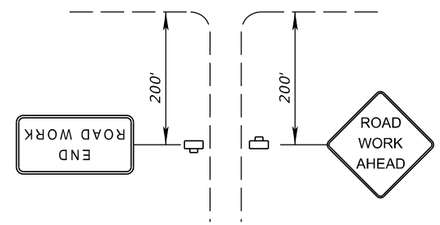
1. *INSTALL ALL ADVANCE WARNING SIGNS PER THE ADVANCE SIGNING LAYOUT BEFORE THE START OF PHASE 1 CONSTRUCTION.*
2. *DURING PERIODS THAT ALL LANES ARE OPEN, INSTALL ADVANCE WARNING SIGNS PER THE ADVANCE SIGNING LAYOUT BELOW. DURING PERIODS OF LANE CLOSURES, UTILIZE STANDARD INDEX 102-603 AND 102-613.*

LEGEND

- *TEMPORARY TRAFFIC CONTROL SIGNS*
- *PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGN*
- *LANE IDENTIFICATION AND DIRECTION OF TRAFFIC*
- *WORK ZONE SIGNS*
- *CHANNELIZING DEVICE (SEE INDEX 102-600)*
- *FIXED (SURFACE MOUNTED) CHANNELIZING DEVICES*
- *PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE (LCD)*

PORTABLE CHANGEABLE MESSAGE SIGNS

PCMS 1-3	*PCMS 1-3*	*PCMS 1-3*
Message 1	*Message 1*	*Message 1*
ROAD	*ROAD*	*NEW*
CONST	*CONST*	*TRAFFIC*
AHEAD	*AHEAD*	*PATTERN*
Message 2	*Message 2*	*Message 2*
STARTING	*DRIVE*	*STARTING*
ON	*WITH*	*ON*
XX-XX-XX	*CAUTION*	*XX-XX-XX*
Message to be displayed 14 days prior to begin construction.	*Message to be displayed for duration of construction phase.*	*Message to be displayed 14 days prior to new traffic pattern.*



ADVANCED WARNING SIDE STREETS

123RD ST. W.
BUTTONWOOD INLET E. ENTRANCE
123RD ST. CT. W.
124TH ST. W.
BUTTONWOOD INLET W. ENTRANCE
124TH ST. CT. W.
125TH ST. W.
127TH ST. W.

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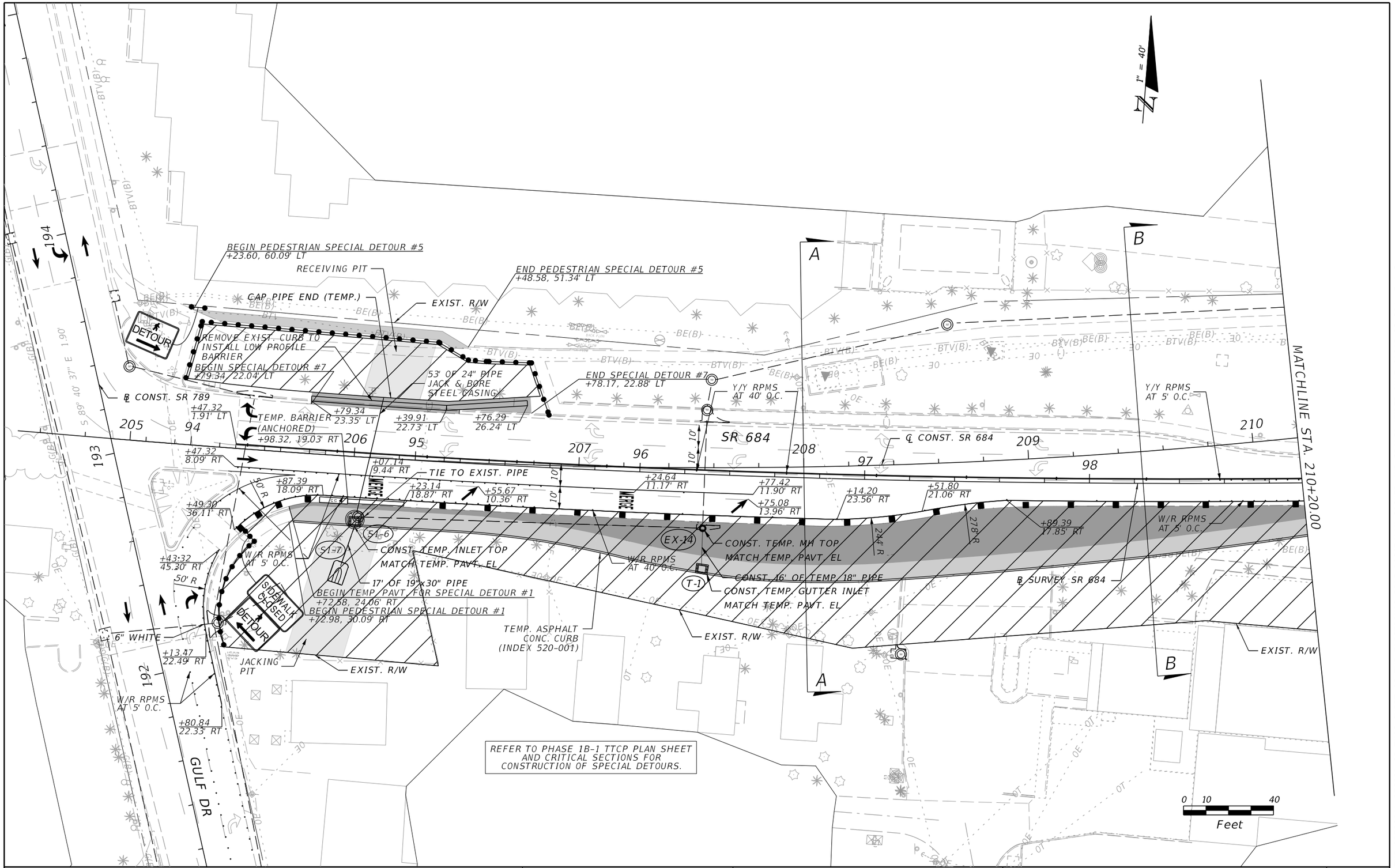
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS

SHEET NO. 146

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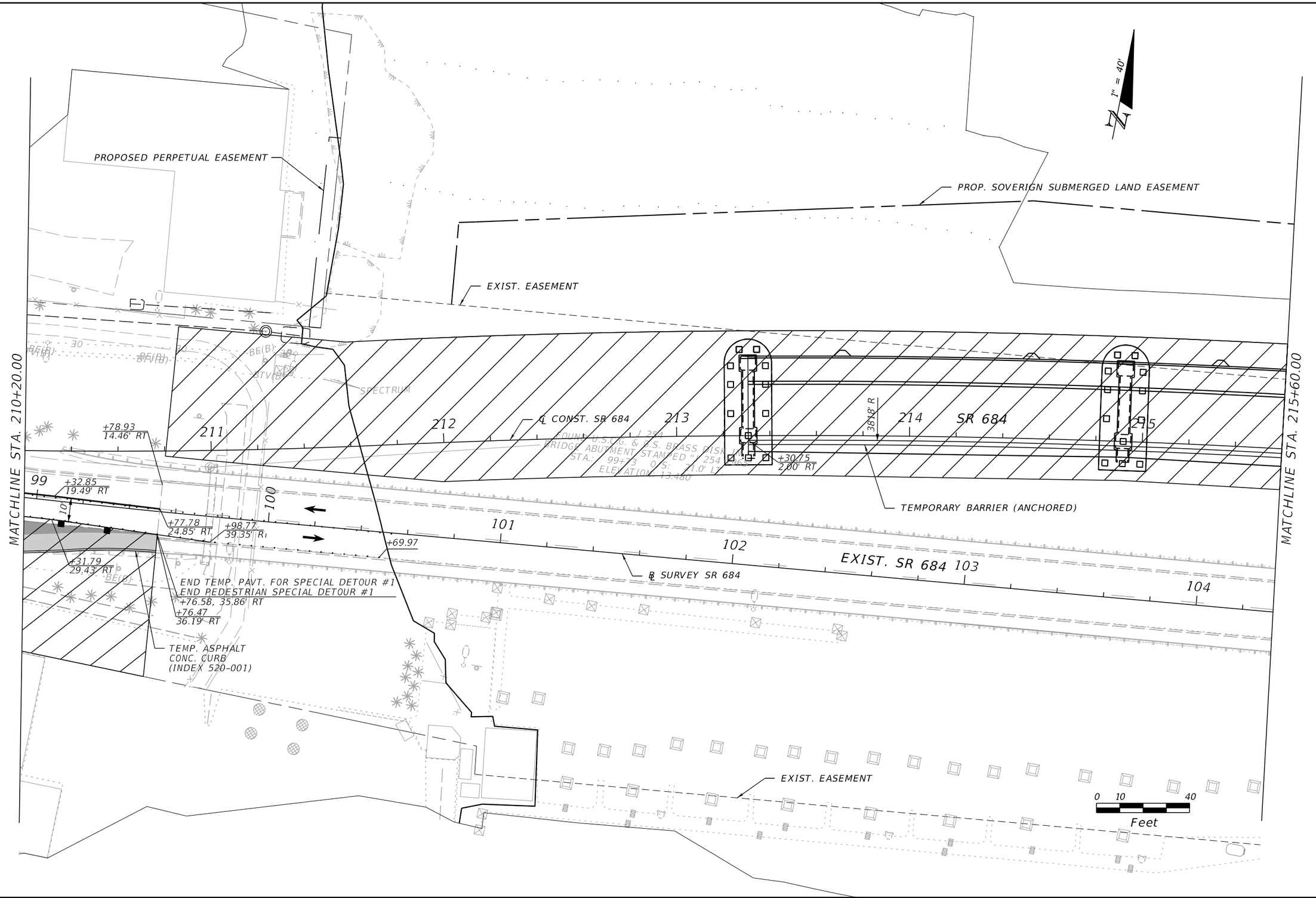
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1A

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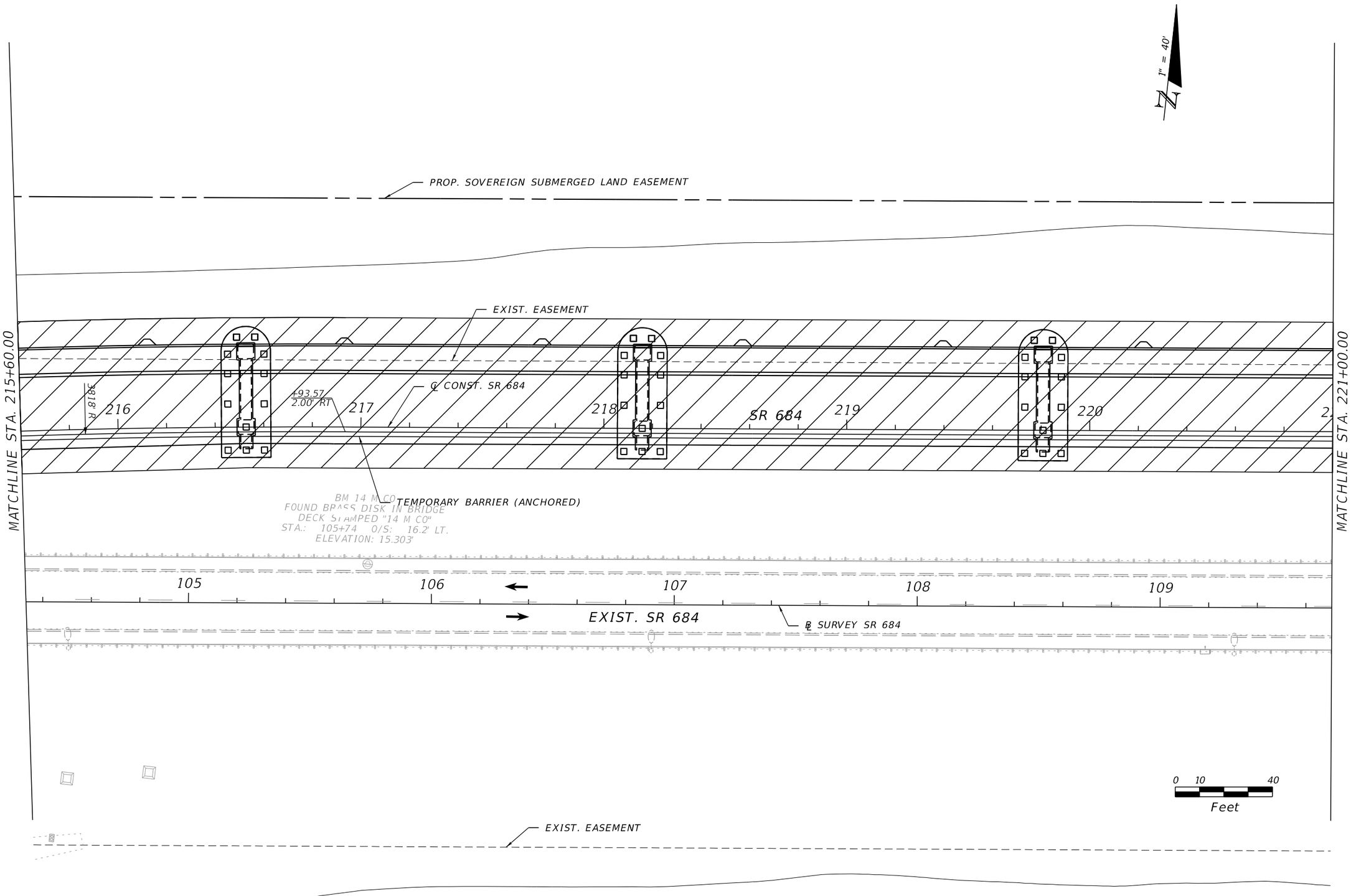
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SR 684 PHASE 1A

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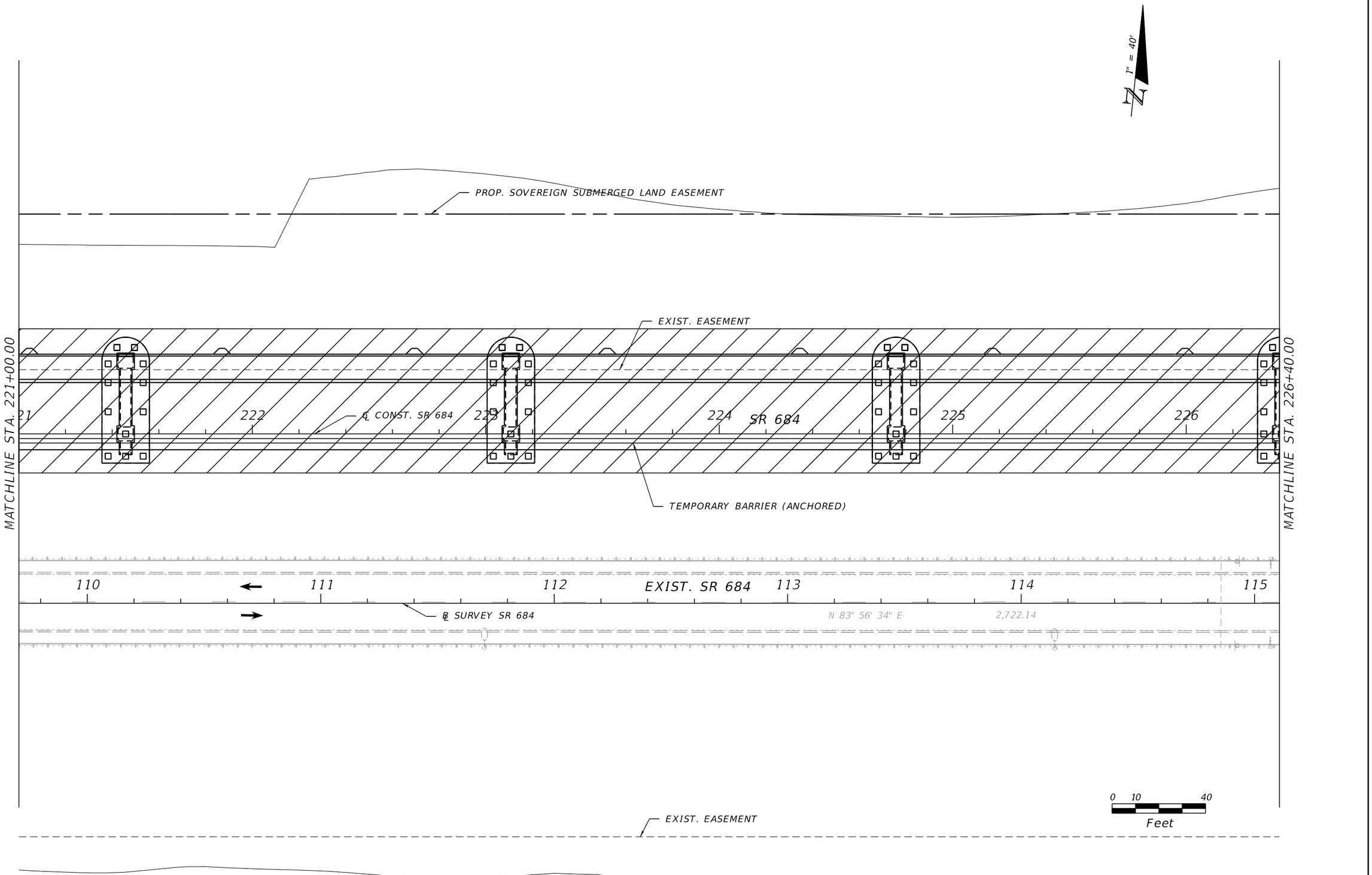
STATE OF FLORIDA
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SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1A

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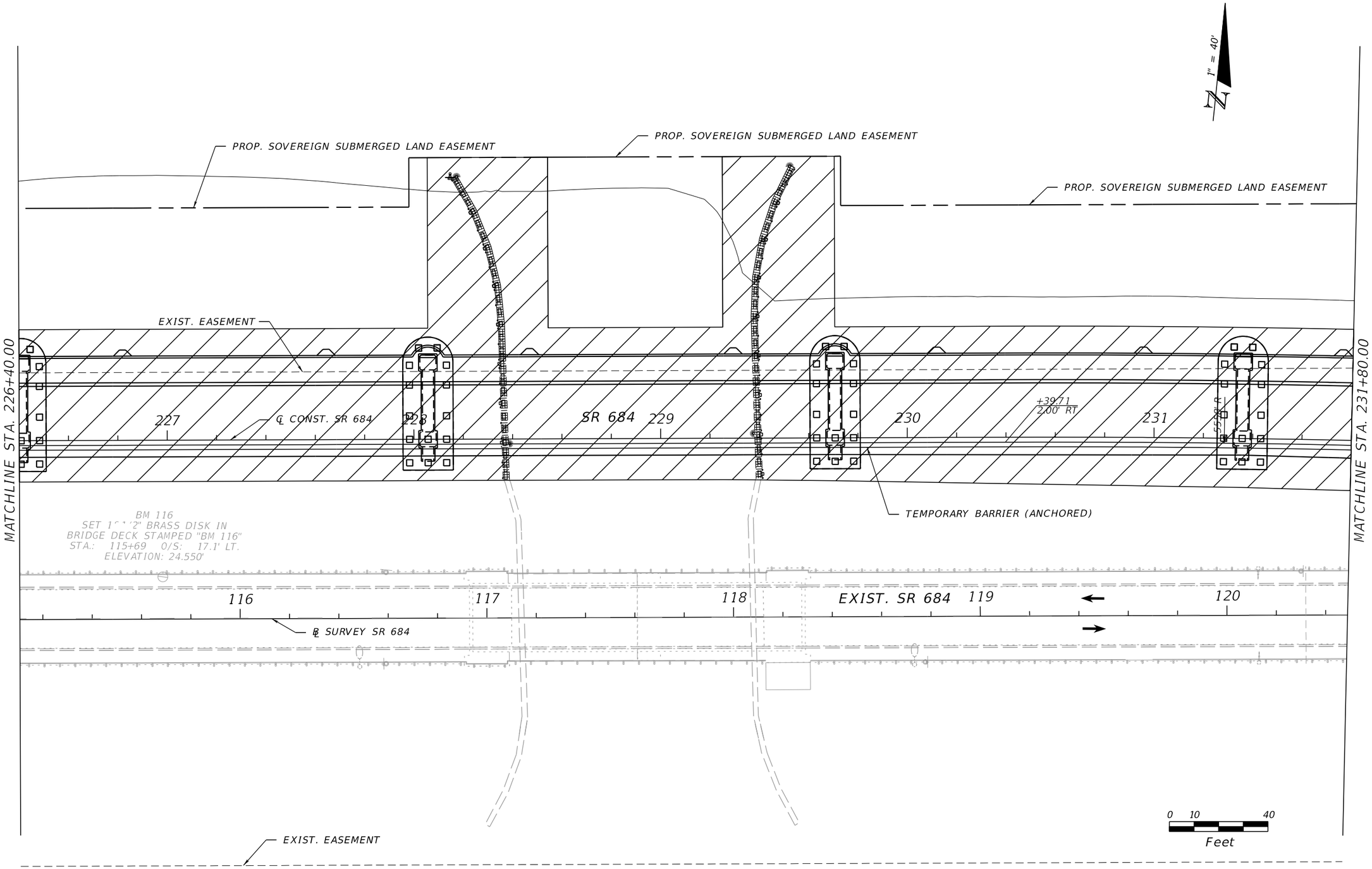
STATE OF FLORIDA
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SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1A

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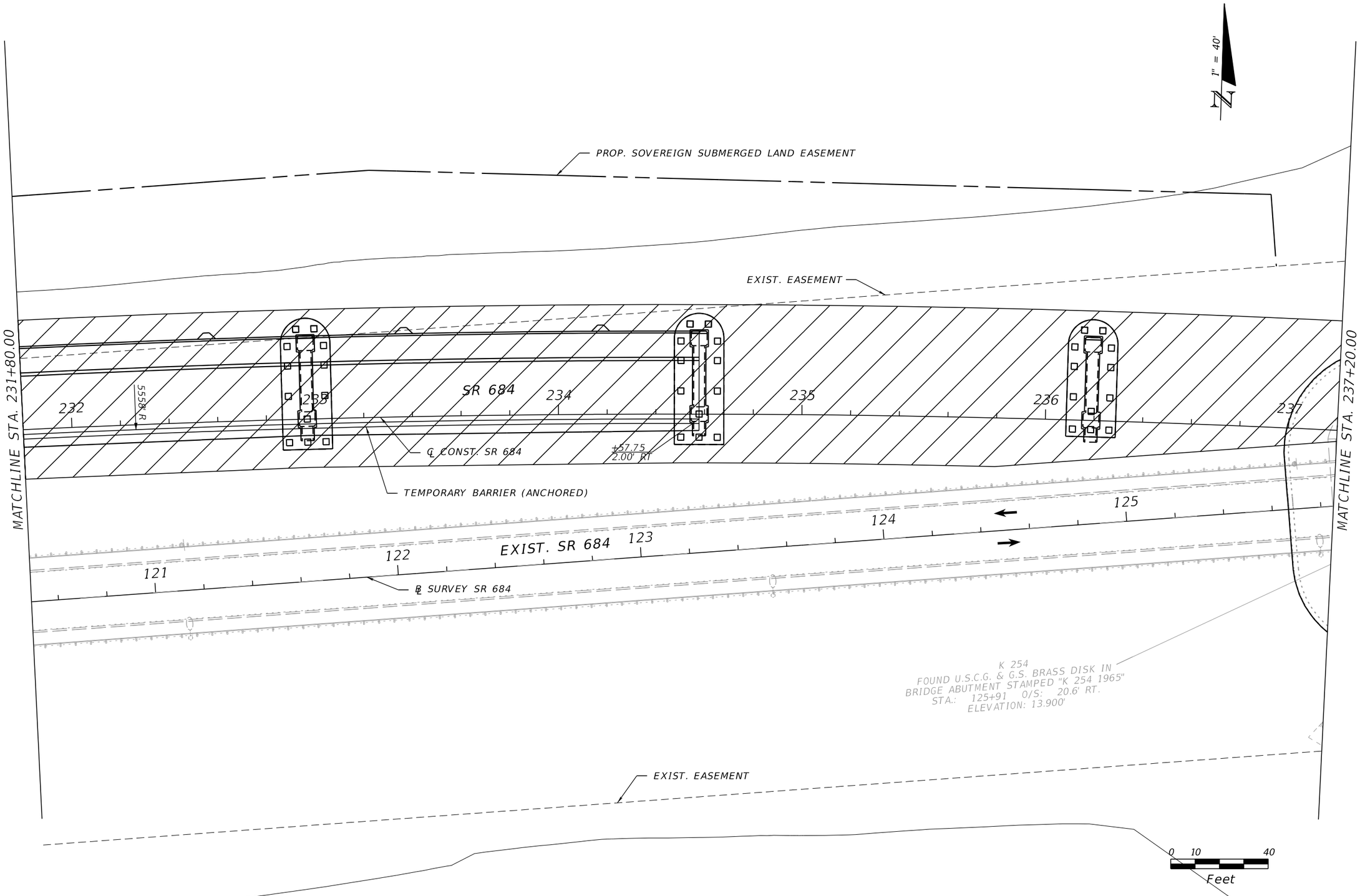
STATE OF FLORIDA
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TRAFFIC CONTROL PLANS
SR 684 PHASE 1A

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SR 684 PHASE 1A

SHEET NO. 152

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EXIST. R/W

CONST. CONC. JACKET

EXIST. R/W

127th ST W

PROP. R/W

D

EXIST. EASEMENT

PROP. R/W

EXIST. R/W

1" = 40'

MATCHLINE STA. 237+20.00

BEGIN TEMP. PAVT. FOR SPECIAL DETOUR #2
+46.96, 39.76' RT

℄ SURVEY SR 684

℄ CONST. SR 684

238 239 240 241 242

128 129 130 131

127 126

+65.49
36.12' RT

LOW PROFILE BARRIER

+50.68
20.37' RT

143.13'
S 89° 06' 04" E

10'

SR 684

MATCHLINE STA. 242+55.00

+27.23
50.49' RT

BEGIN PEDESTRIAN SPECIAL DETOUR #2
+26.24, 42.55' RT

BIKE LANE CLOSED
BICYCLES ON ROAD

END PEDESTRIAN SPECIAL DETOUR #2
+37.34, 58.59' RT

40 50 51 52

EXIST. R/W

D

BEGIN PEDESTRIAN SPECIAL DETOUR #3
+83.69, 58.06' RT

EXIST. R/W

EXIST. EASEMENT

TIDE TABLES
RESTAURANT

0 10 40
Feet

REVISIONS			
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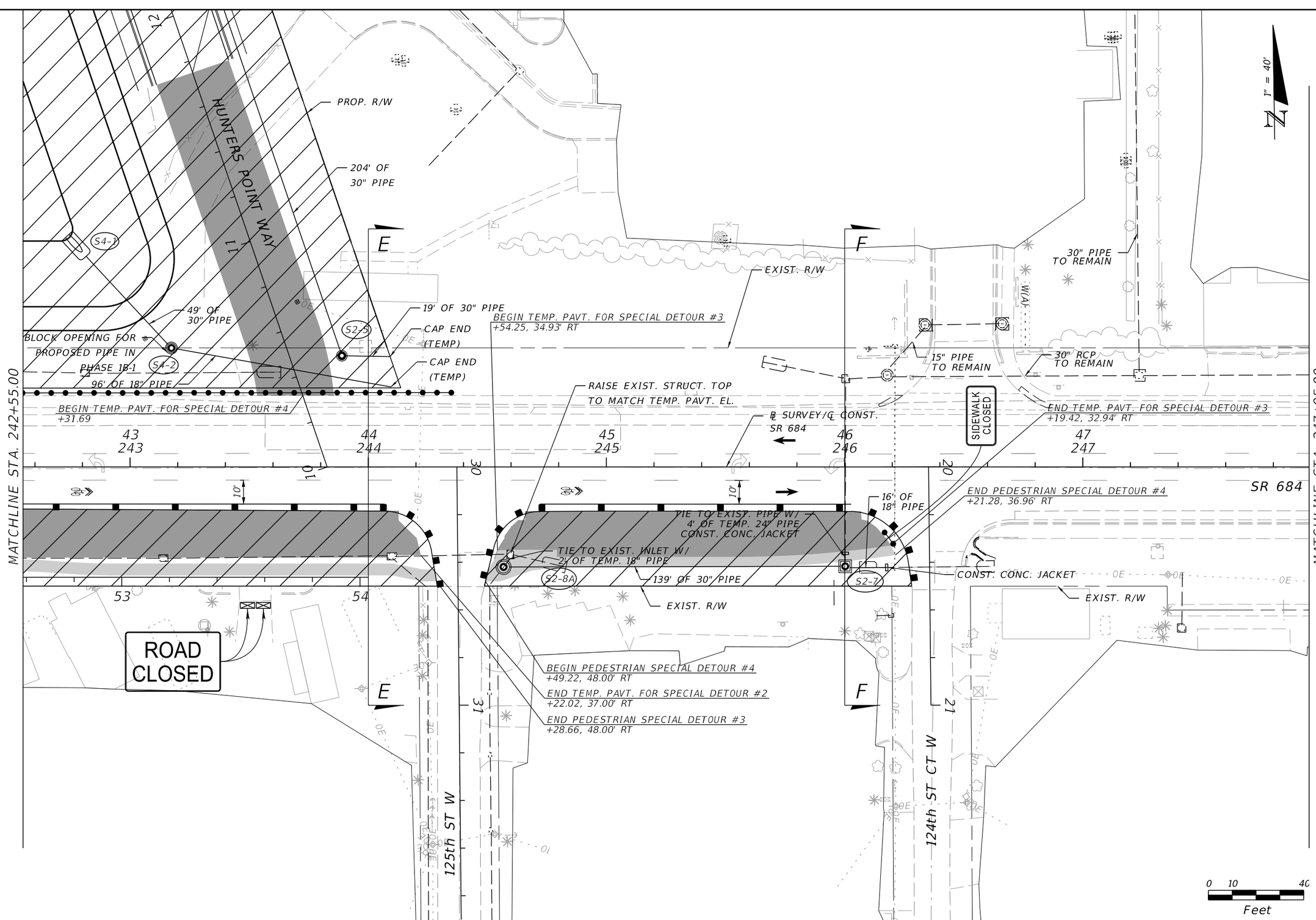
STATE OF FLORIDA
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SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1A

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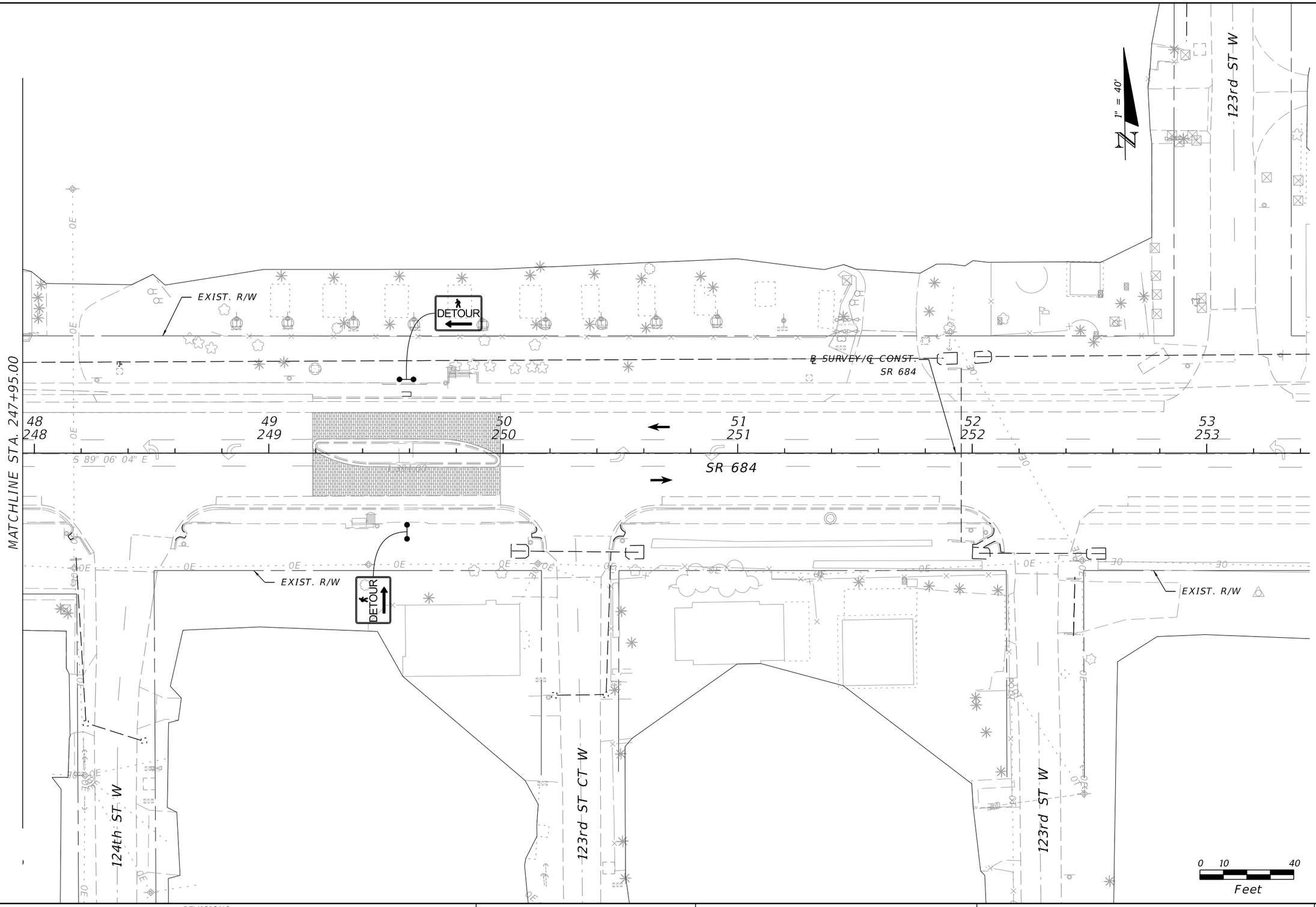
STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1A

SHEET NO. 154

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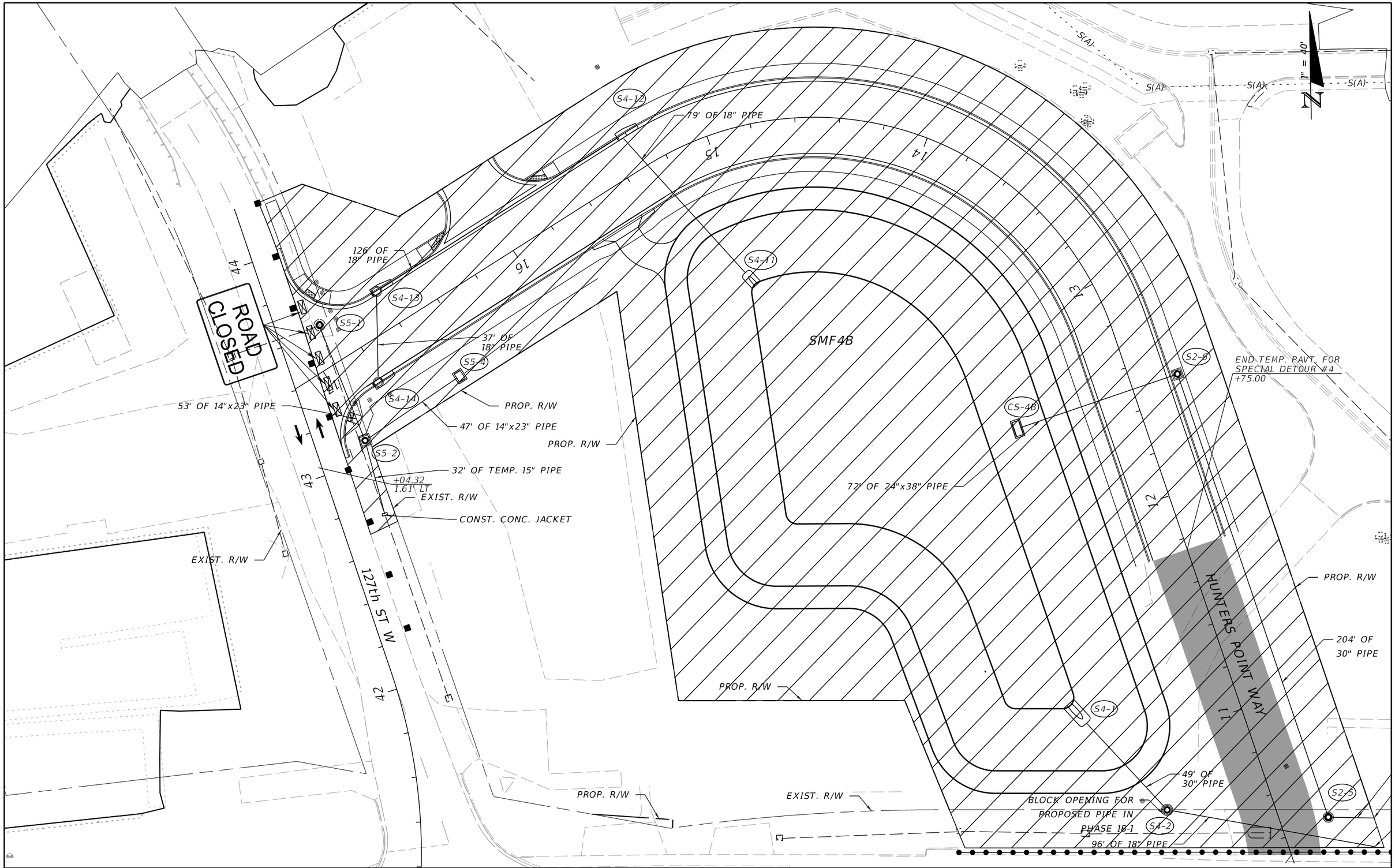
STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1A

SHEET NO. 155

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SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
HUNTERS PT WAY PHASE 1A

SHEET NO. 156

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STA. 200+10

STA. 202+10

LEFT LANE CLOSED AHEAD

200'

Y/Y RPMS AT 5' O.C.

6" WHITE

+43.11 14.53' LT

W/R RPMS AT 5' O.C.

6" DBL. YELLOW

MATCHLINE STA. 194+20.00

10'

N 16° 57' 06" W

195

196

197

198

199

MEDIAN

+65.12 0.66' RT

GULF DR.

+43.11 4.45' LT

℄ CONST. SR 789

+10.11 0.00' RT

6" WHITE

+65.12 11.69' RT

Y/Y RPMS AT 5' O.C.

BE(B)

1" = 40'

0 10 40

Feet

MATCHLINE STA. 194+20.00

LOW PROFILE BARRIER

DETOUR

DETOUR

DETOUR

SIDEWALK CLOSED

194

9'

+83.12 13.47' RT

+83.12 17.65' LT

+83.12 8.28' RT

+65.12 4.02' LT

+65.12 7.54' RT

+41.75 3.65' LT

10'

12'

Y/Y RPMS AT 5' O.C.

+86.66 42.05' LT

W/R RPMS AT 5' O.C.

7' OF 14"x23" PIPE

S1-5A

S1-5

35' R

+20.13 17.99' LT

+46.44 2.01' RT

S1-4

S1-3

S1-2

S1-1

RADIUS MAY BE INCREASED AFTER STORM SEWER CONSTRUCTION IS COMPLETE.

36' OF 14"x23" PIPE

SPECIAL DETOUR #6

6" YELLOW 2'-4' DOTTED GUIDE (TYP.)

62' OF 14"x23" PIPE

EXIST. R/W

34' OF 24"x38" PIPE

LOW PROFILE BARRIER

35' OF 18" PIPE

146' OF 30" PIPE

REFER TO TEMPORARY SIGNAL TIMINGS FOR THIS CONSTRUCTION PHASE.

0 10 40

Feet

1" = 40'

A

4' OF 24"x38" PIPE

CONC. JACKET, TIE TO EXIST.

B

16' OF 18" TEMP. PIPE

69' OF 30" PIPE

8' OF 24"x38" PIPE

8' OF 30" TEMP PIPE, SEE PHASING NOTES

103' OF 24"x38" PIPE

S1-1A

S1-1B

S1-1C

56' OF 18" PIPE

60' OF 18" PIPE

TEMP. BARRIER (ANCHORED)

PLUG PIPE END (TEMP.)

+27.26 5.21' LT

+50.07 6.92' RT

℄ CONST. SR 684

S3-4

S3-5

S3-6

LOW PROFILE BARRIER

MATCHLINE STA. 210+20.00

205

+25.37 2.01' RT

94

SR 684

206

95

207

96

208

97

209

98

210

+45.77 17.66' LT

+69.99 24.19' LT

+02.68 12.77' LT

10'

+48.92 13.01' RT

+81.75 22.01' RT

+12.33 24.06' RT

+45.45 12.34' RT

+23.46 11.67' RT

+37.99 24.75' RT

℄ SURVEY SR 684

+36.47 2.01' RT

+11.83 13.01' RT

+12.07 12.01' RT

PEDESTRIAN SPECIAL DETOUR #6

+21.46 16.54' RT

+30.59 16.42' RT

DETOUR

DETOUR

SIDEWALK CLOSED

45' R

50' R

35' R

193

GULF DR

192

+91.93 12.71' LT

+84.63 12.53' LT

6" YELLOW 6'-10' DOTTED GUIDE

+59.79 2.74' LT

℄ SURVEY/ CONST. SR 789

6" WHITE (TYP.)

11'

W/R RPMS AT 5' O.C.

+84.11 6.56' LT

+84.11 15.99' LT

6" DBL. YELLOW (TYP.)

Y/Y RPMS AT 5' O.C.

+80.84 22.33' RT

+49.32 36.12' RT

+42.89 44.99' RT

W/R RPMS AT 5' O.C.

6" YELLOW 2'-4' DOTTED GUIDE

+16.13 22.33' RT

6" WHITE

MATCHLINE STA. 191+80.00

SPEED LIMIT 30

S1-6

S1-7

LANE ENDS MERGE LEFT

574.2' R

410' R

430' R

Y/Y RPMS AT 5' O.C.

W/R RPMS AT 5' O.C.

+45.33 22.34' RT

+18.88 31.13' RT

+76.16 31.04' RT

+75.00 40.97' RT

TEMP. BARRIER (ANCHORED)

449' R

+37.99 42.47' RT

+48.66 38.34' RT

2591' R

2587' R

EXIST. R/W

W/R RPMS AT 5' O.C.

190

℄ SURVEY/CONST. SR 789

191

Y/Y RPMS AT 5' O.C.

N 17° 05' 06" W

GULF DR.

MATCHLINE STA. 191+80.00

B

A

B

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

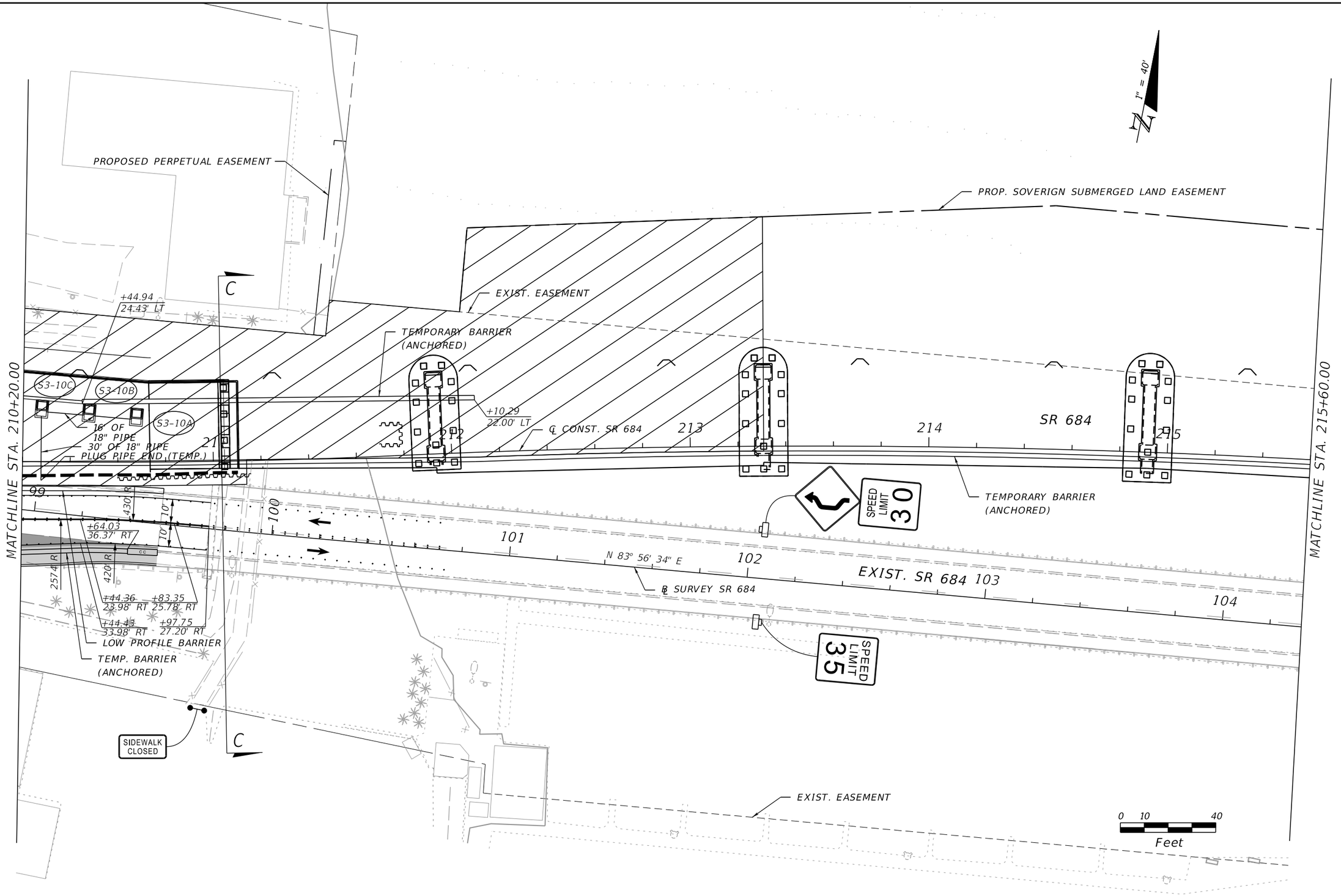
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1B-1

SHEET NO. 157



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

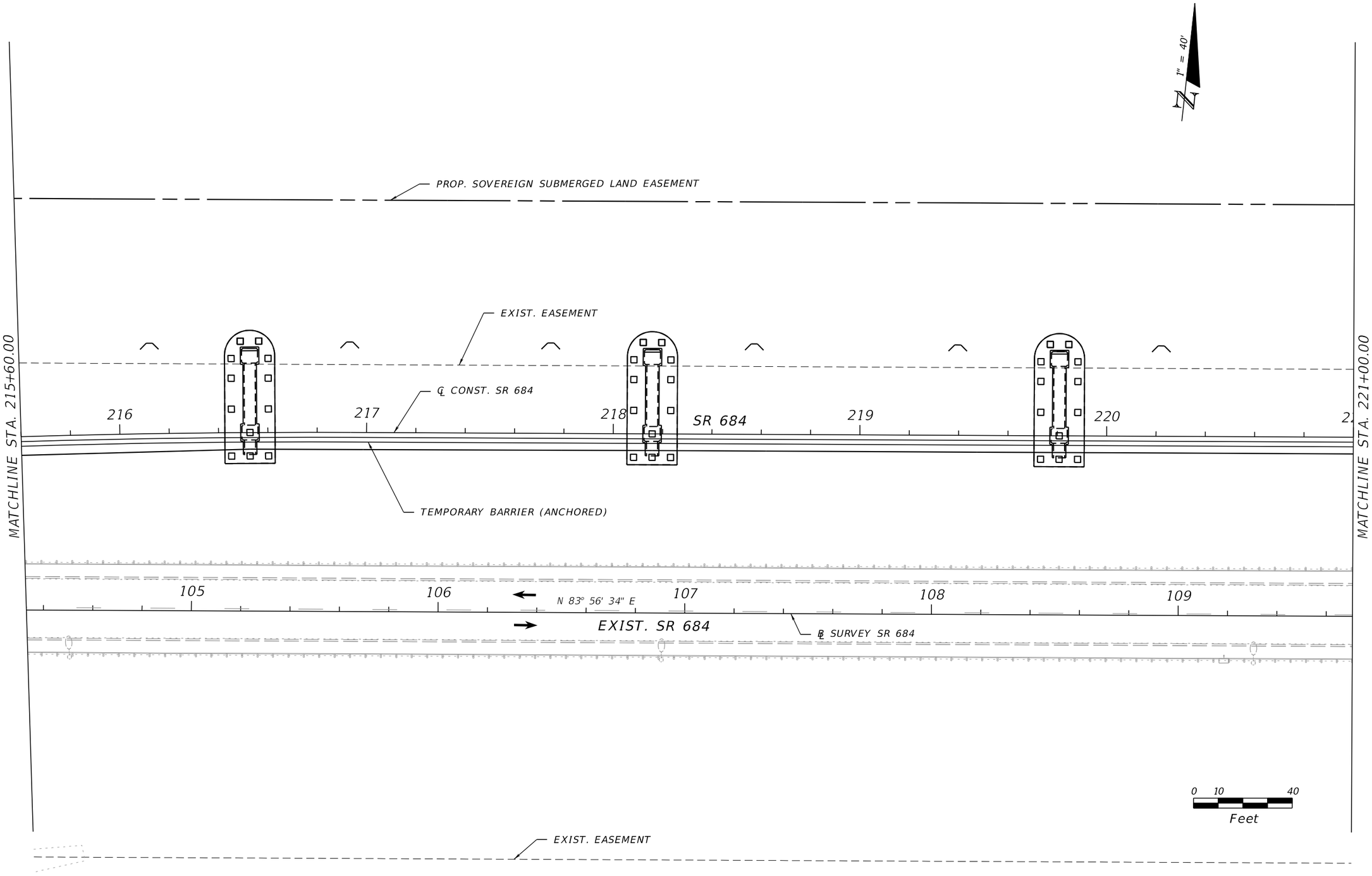
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1B-1

SHEET NO. 158

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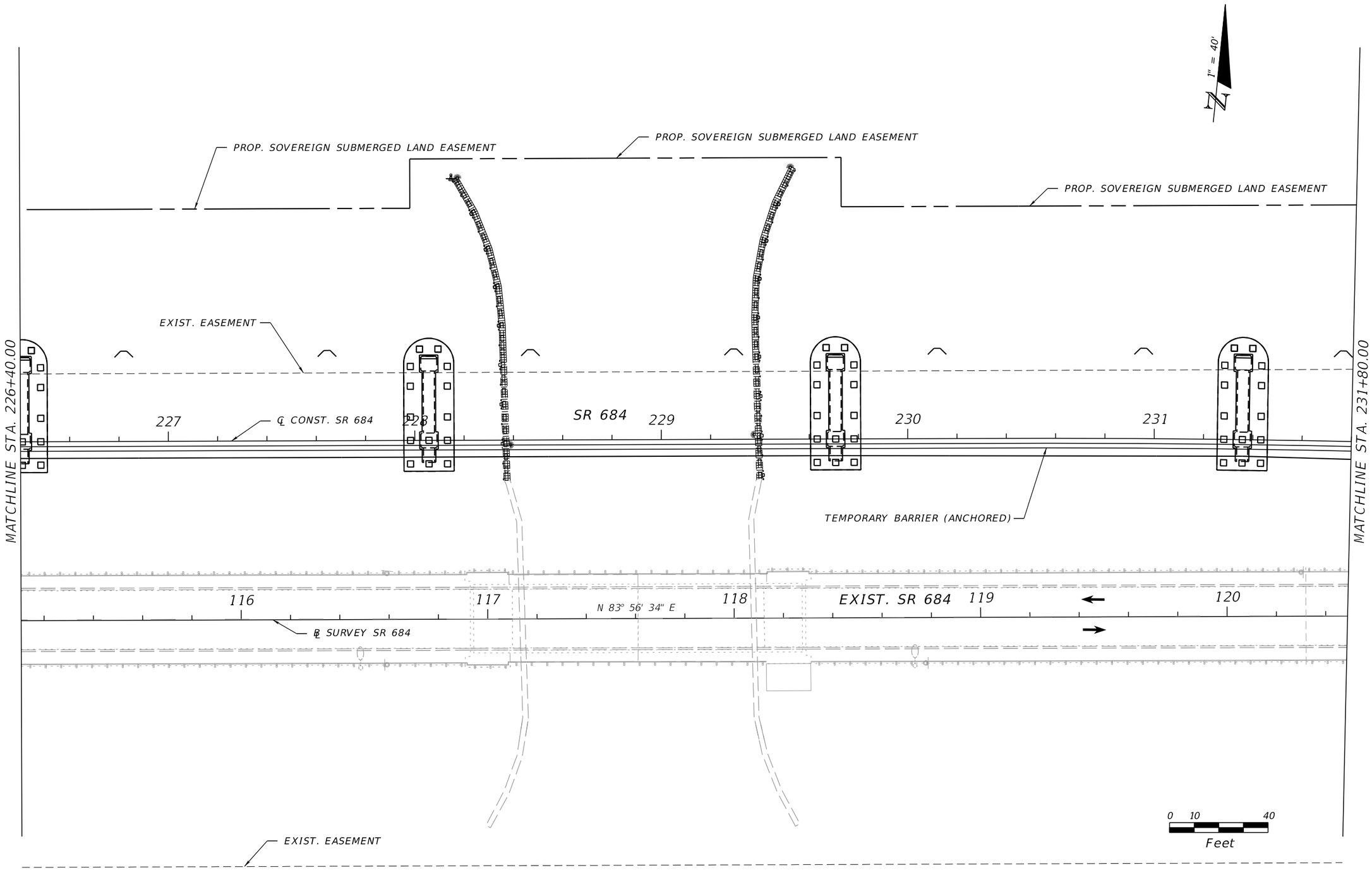
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1B-1

SHEET NO. 159



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

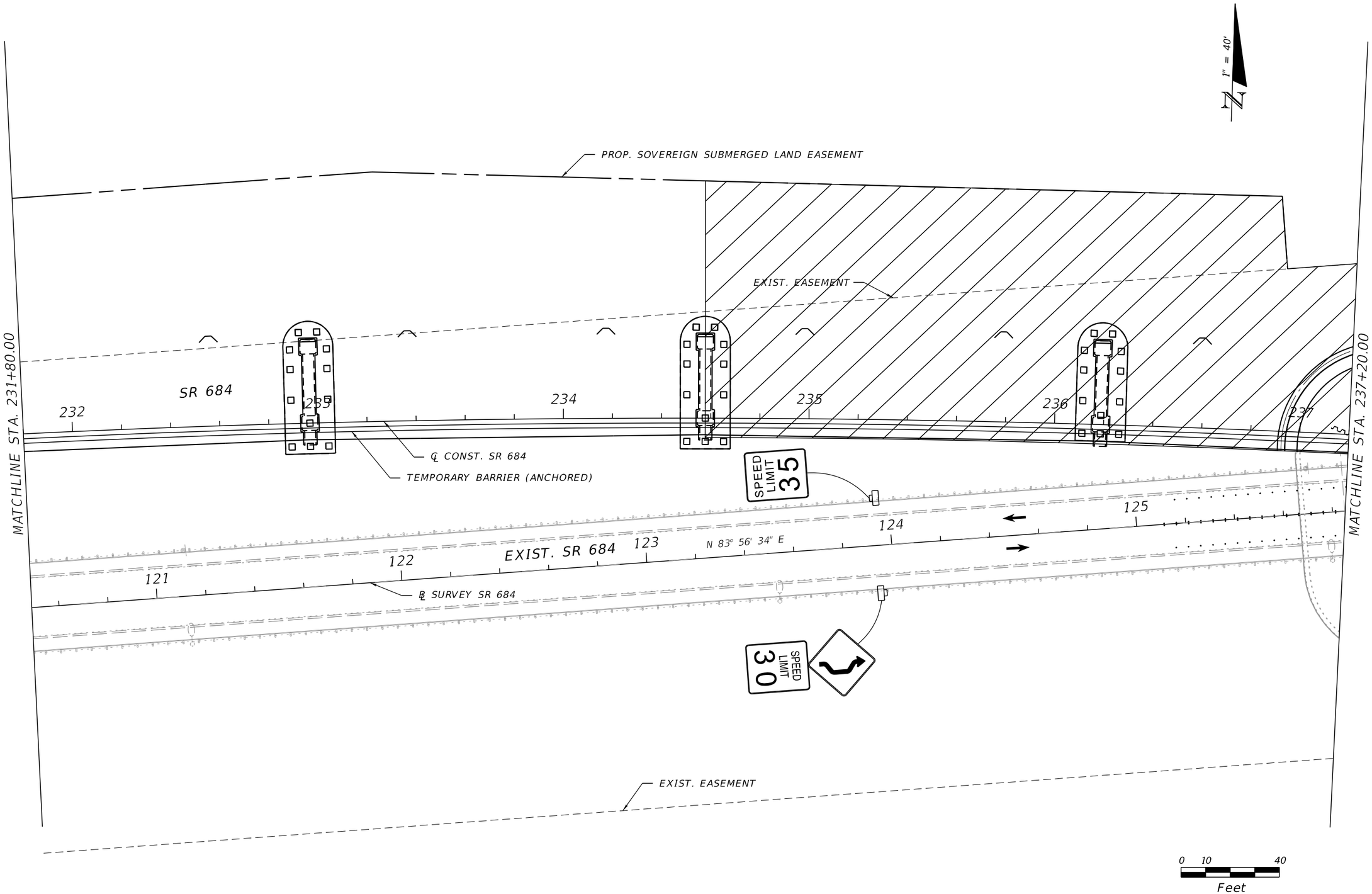
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1B-1

SHEET NO. 160

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REVISIONS			
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4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

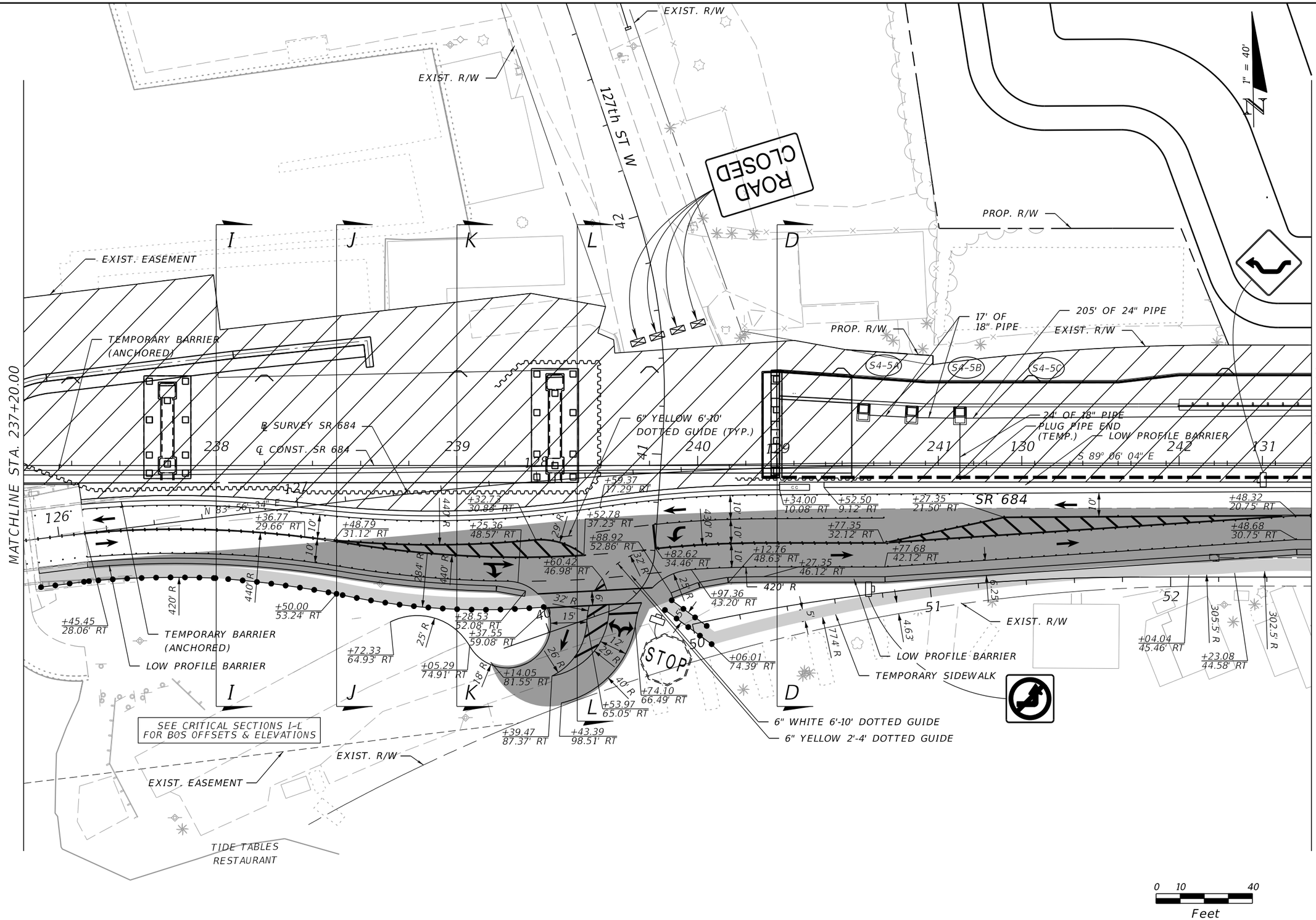
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1B-1

SHEET NO. 161

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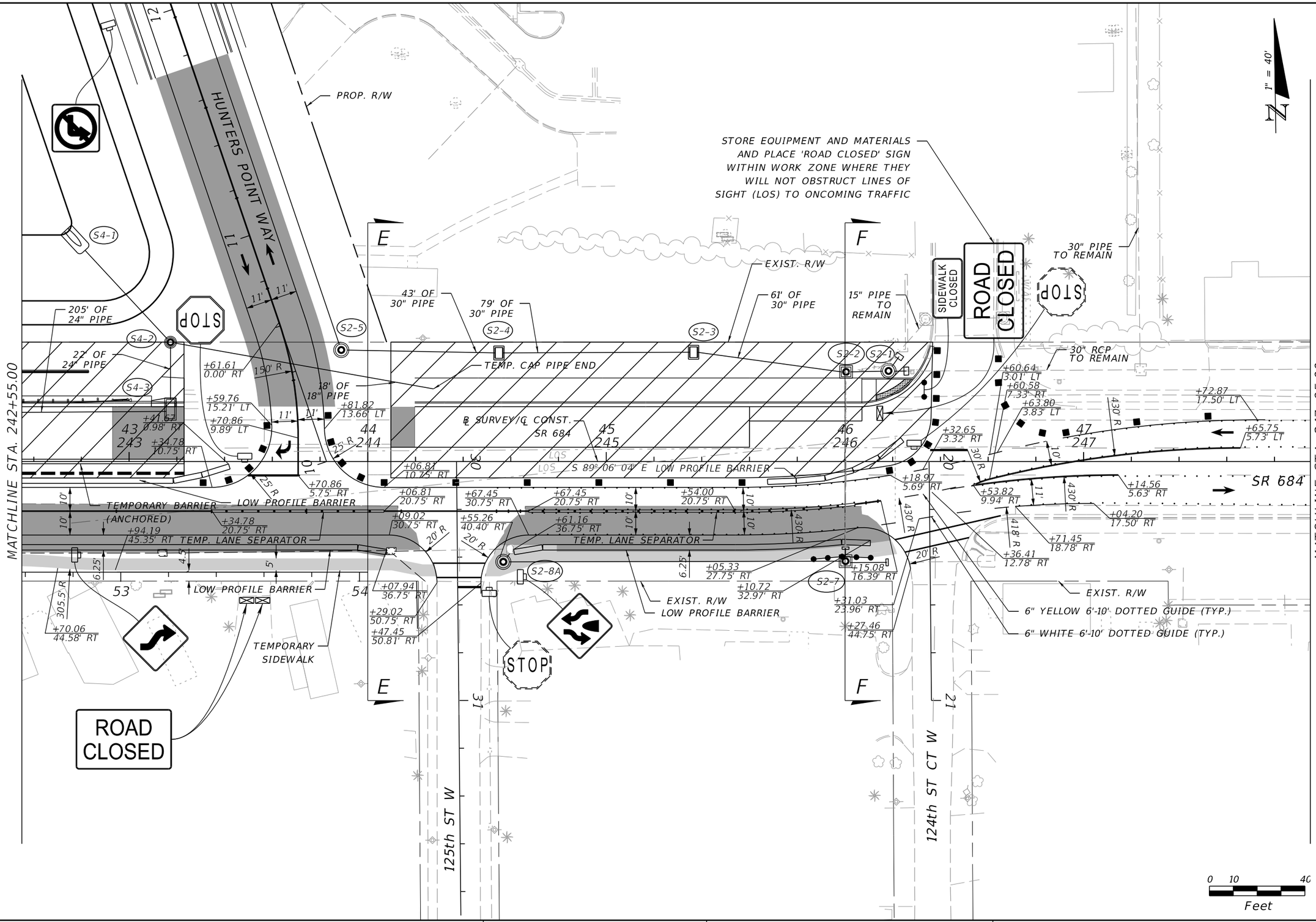
WILLIAM C. COGAN, P.E.
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1B-1

SHEET NO. 162



REVISIONS			
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TAMPA, FLORIDA, 33607

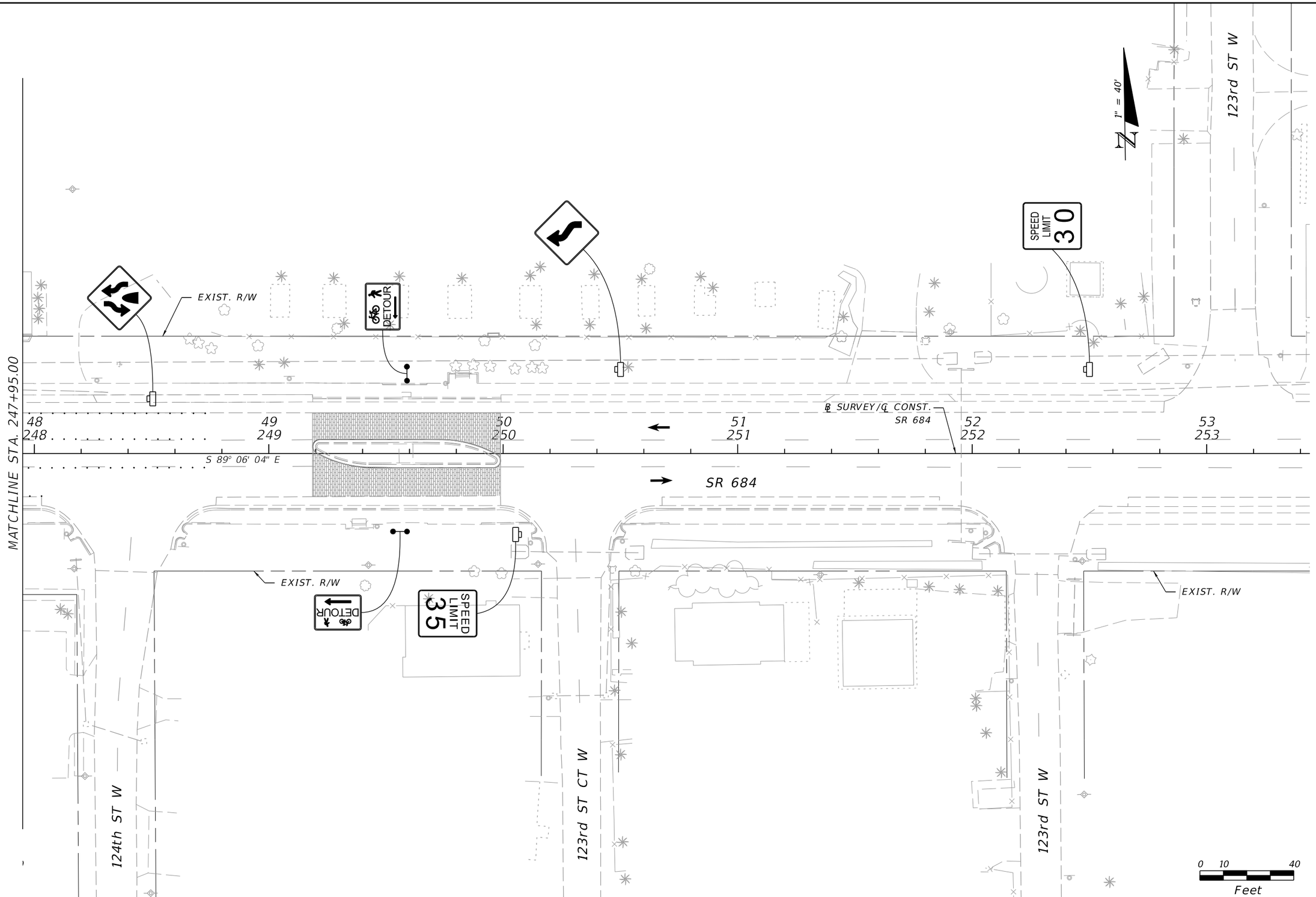
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1B-1

SHEET NO. 163

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TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

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SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1B-1

SHEET NO. 164

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S4-12
S4-13
S4-11
S5-1
S5-4
S4-14
S5-2
S4-1
S2-6
CS-4B
S4-2
S4-3
S2-5
S2-4
S4-5A
S4-5B
S4-5C
SMF4B
15
14
16
13
12
11
44
43
42
17
11
11'
11'
1" = 40'
S(A)
53' OF 18" PIPE
PROP. R/W
EXIST. R/W
127th ST W
ROAD CLOSED
HUNTERS POINT WAY
205' OF 24" PIPE
17' OF 18" PIPE
22' OF 24" PIPE
43' OF 30" PIPE
79' OF 30" PIPE
18' OF 18" PIPE
STOP
+61.61
0.00' RT
150' R
+59.76
TEMP. C

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
HUNTERS PT W PHASE 1B-1

SHEET NO. 165

PHASE IB-1 & IB-2 - SEQUENCE OF CONSTRUCTION

1. EXISTING TRAFFIC CONTROLLER ASSEMBLY, SIGNAL HEADS AND OTHER EQUIPMENT SHALL BE PROTECTED AND UTILIZED.

2. ADD MICROWAVE DETECTION FROM FINAL SIGNALIZATION DESIGN AND APPLY TEMPORARY DETECTION ZONES.

3. CONSTRUCT TEMPORARY DETOUR FOR PEDESTRIANS TO P8 ACROSS GULF DRIVE AND INSTALL NECESSARY CONDUIT AND PULL BOXES.

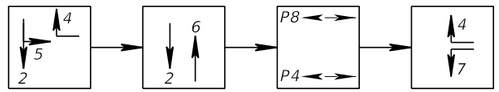
4. ADJUST TIMINGS AND UPDATE CONTROLLER IN CABINET.

5. CLOSE ACCESS TO P6 AND OPEN P8 FOR USE.

6. CONTINUE OPERATIONS AS SHOWN FOR PHASE IB-2.

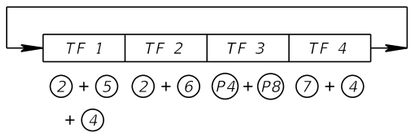
7. LEAVE CONDUIT, PULL BOXES, AND OTHER P8 INFRASTRUCTURE IN PLACE FOR PHASE III OPERATIONS.

SPECIAL S.O.P.



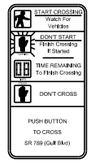
PHASE 1 PHASE 2 PHASE 3 PHASE 4

NOTE: PHASE 3 TO OPERATE ON PED ACTUATION ONLY





PED. SIGNAL COUNT-DOWN 1-SECT., 1-WAY 2 AS



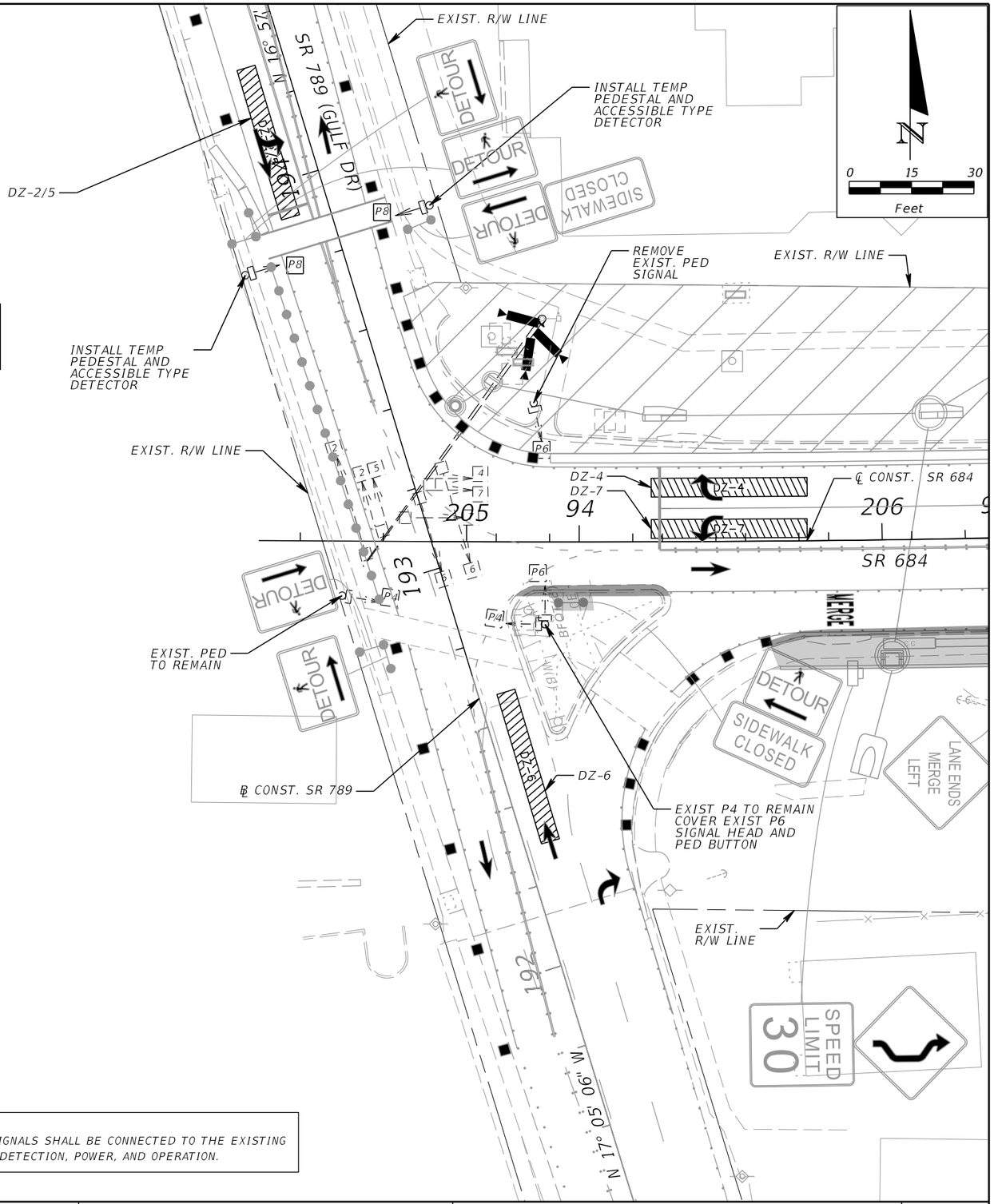
FTP-68B-6
9"x18"

LEGEND

- EXIST. TRAFFIC SIGNAL
- EXIST. PEDESTRIAN SIGNAL
- TEMPORARY PROPOSED PEDESTRIAN SIGNAL
- PROPOSED MICROWAVE DETECTION FROM FINAL DESIGN

* PREEMPTION TIMINGS TO BE REMOVED									
Controller Timings									
Movement # (Controller Phase Ø)	1	2	3	4	5	6	7	8	Notes
Direction		SB		WB		NB			
Turn Type									
Min Green									
Ext									
Yellow		4.0		4.0		4.0			
All Red		2.6		2.0		2.0			
Max I									
Max II									
Max Limit									
Adjust By									
Walk				7.0				7.0	
Flashing Don't Walk				8.0				8.0	
Detector Memory									
Det. Cross Switch.									
Dual Entry									
Recall									

SR 789 (GULF BLVD) POSTED SPEED 35 MPH
SR 684 (CORTEZ RD) POSTED SPEED 35 MPH



NOTES:
1. PEDESTRIAN SIGNALS SHALL BE CONNECTED TO THE EXISTING CONTROLLER FOR DETECTION, POWER, AND OPERATION.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ROB R. SWANN, P.E.
P.E. LICENSE NUMBER 59517
H.W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

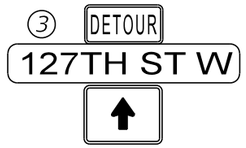
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

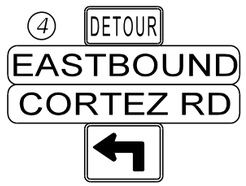
TRAFFIC CONTROL PLANS TEMPORARY SIGNALIZATION

SHEET NO. 166

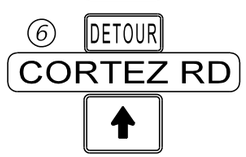
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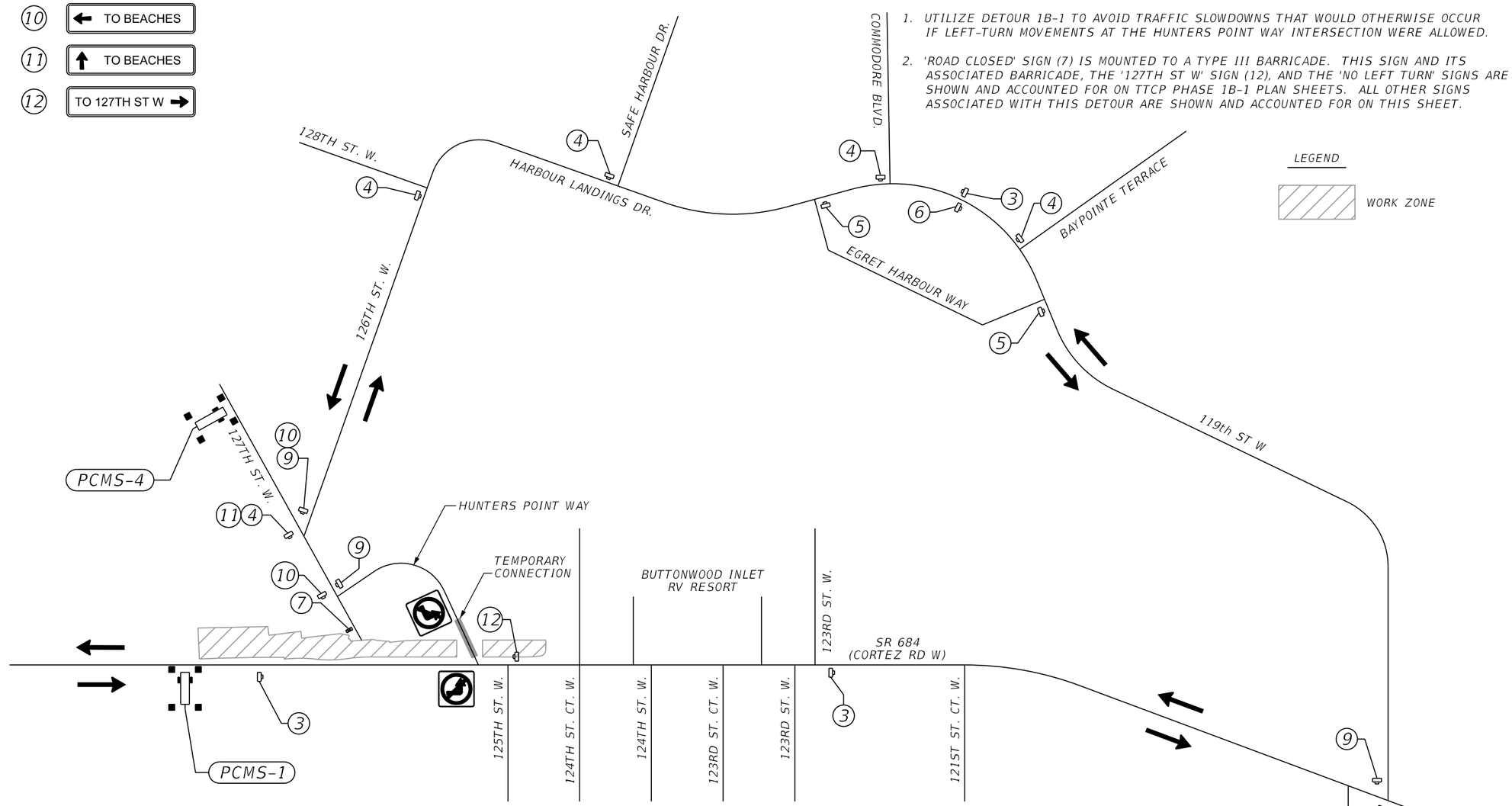


WITH TYPE III BARRICADE



NOTES:

1. UTILIZE DETOUR 1B-1 TO AVOID TRAFFIC SLOWDOWNS THAT WOULD OTHERWISE OCCUR IF LEFT-TURN MOVEMENTS AT THE HUNTERS POINT WAY INTERSECTION WERE ALLOWED.
2. 'ROAD CLOSED' SIGN (7) IS MOUNTED TO A TYPE III BARRICADE. THIS SIGN AND ITS ASSOCIATED BARRICADE, THE '127TH ST W' SIGN (12), AND THE 'NO LEFT TURN' SIGNS ARE SHOWN AND ACCOUNTED FOR ON TTCP PHASE 1B-1 PLAN SHEETS. ALL OTHER SIGNS ASSOCIATED WITH THIS DETOUR ARE SHOWN AND ACCOUNTED FOR ON THIS SHEET.



PORTABLE CHANGEABLE MESSAGE SIGNS

PCMS 1 Message 1	PCMS 1 Message 1	PCMS 4 Message 1	PCMS 4 Message 1
127TH	127TH	EASTBND	EASTBND
DETOUR	CLOSED	CORTEZ	CORTEZ
	AHEAD	CLOSED	CLOSED
Message 2	Message 2	Message 2	Message 2
STARTING	USE	STARTING	USE
ON	119TH	ON	126TH
XX-XX-XX	DETOUR	XX-XX-XX	DETOUR
MESSAGE TO BE DISPLAYED 14 DAYS PRIOR TO DETOUR START DATE.	MESSAGE TO BE DISPLAYED FOR DURATION OF DETOUR.	MESSAGE TO BE DISPLAYED 14 DAYS PRIOR TO DETOUR START DATE.	MESSAGE TO BE DISPLAYED FOR DURATION OF DETOUR.

127TH STREET W. DETOUR PLAN

PHASE 1B-1

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
TEMPORARY DETOUR 1B-1

SHEET NO. 167

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

STA. 200+10

STA. 202+10

MATCHLINE STA. 194+20.00

Y/Y RPMS AT 5' O.C.

6" WHITE

+43.11 14.53' LT

W/R RPMS AT 5' O.C.

10'

195

196

6" DBL. YELLOW

197

198

MODIFY

199

200'

LEFT LANE CLOSED AHEAD

+65.12 0.66' RT

GULF DR.

+43.11 4.45' LT

℄ CONST. SR 789

+10.11 0.00' RT

6" WHITE

+65.12 11.69' RT

Y/Y RPMS AT 5' O.C.

1" = 40'

0 10 40

Feet

MATCHLINE STA. 194+20.00

DETOUR

DETOUR

DETOUR

SIDEWALK CLOSED

194

6'

+83.12 13.47' RT

+22.83 20.14' LT

+83.12 17.65' LT

+88.87 42.16' LT

+65.12 7.54' RT

+41.19 19.10' LT

10'

2'

+83.12 8.28' RT

+65.12 4.07' LT

Y/Y RPMS AT 5' O.C.

+41.75 3.65' LT

W/R RPMS AT 5' O.C.

+91.93 12.71' LT

4'

S1-5A

32' R

46' R

S1-4

S1-5

+45.88 18.94' LT

+55.61 18.50' LT

+66.16 12.99' LT

S1-2

EXIST. R/W

S1-3

LOW PROFILE BARRIER

S1-1

S3-4

TEMPORARY BARRIER (ANCHORED)

S3-5

S3-6

℄ CONST. SR 684

LOW PROFILE BARRIER

S1-1C

S1-1A

S1-1B

+02.96 27.03' LT

6" YELLOW DOTTED GUIDE

205

94

SR 684

206

95

207

96

208

97

209

98

210

MATCHLINE STA. 210+20.00

+69.99 24.19' LT

+02.68 12.77' LT

+27.26 5.21' LT

+45.77 17.66' LT

+50.07 6.92' RT

10'

10'

193

50' R

35' R

+46.44 2.01' RT

+81.75 22.01' RT

+12.33 24.06' RT

10'

+45.45 12.34' RT

430' R

+23.46 11.67' RT

+37.99 24.75' RT

℄ SURVEY SR 684

10'

DETOUR

+49.32 36.12' RT

45' R

+42.89 44.99' RT

DETOUR

SIDEWALK CLOSED

S1-6

57.42' R

410' R

+45.33 22.34' RT

Y/Y RPMS AT 5' O.C.

W/R RPMS AT 5' O.C.

+18.88 31.13' RT

+75.00 40.97' RT

+76.16 31.04' RT

449' R

+37.99 42.47' RT

2591' R

+48.66 38.34' RT

2587' R

+84.63 12.53' LT

+12.97 12.01' RT

S1-7

LANE ENDS MERGE LEFT

TEMP. BARRIER (ANCHORED)

A

A

+59.79 2.74' LT

6" YELLOW 2'-4' DOTTED GUIDE (TYP.)

6" YELLOW 6'-10' DOTTED GUIDE

+16.13 22.33' RT

℄ SURVEY/ CONST. SR 789

11'

6" WHITE

W/R RPMS AT 5' O.C.

Y/Y RPMS AT 5' O.C.

EXIST.

6" DBL. YELLOW (TYP.)

6" WHITE (TYP.)

W/R RPMS AT 5' O.C.

192

GULF DR

GULF DR

+84.11 6.56' LT

+80.84 22.33' RT

+84.11 15.99' LT

MATCHLINE STA. 191+80.00

SPEED LIMIT 30

W/R RPMS AT 5' O.C.

Y/Y RPMS AT 5' O.C.

190

℄ SURVEY/CONST. SR 789

191

GULF DR.

MATCHLINE STA. 191+80.00

B

B

EXIST. R/W

REFER TO TEMPORARY SIGNAL TIMINGS FOR THIS CONSTRUCTION PHASE.

0 10 40

Feet

1" = 40'

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

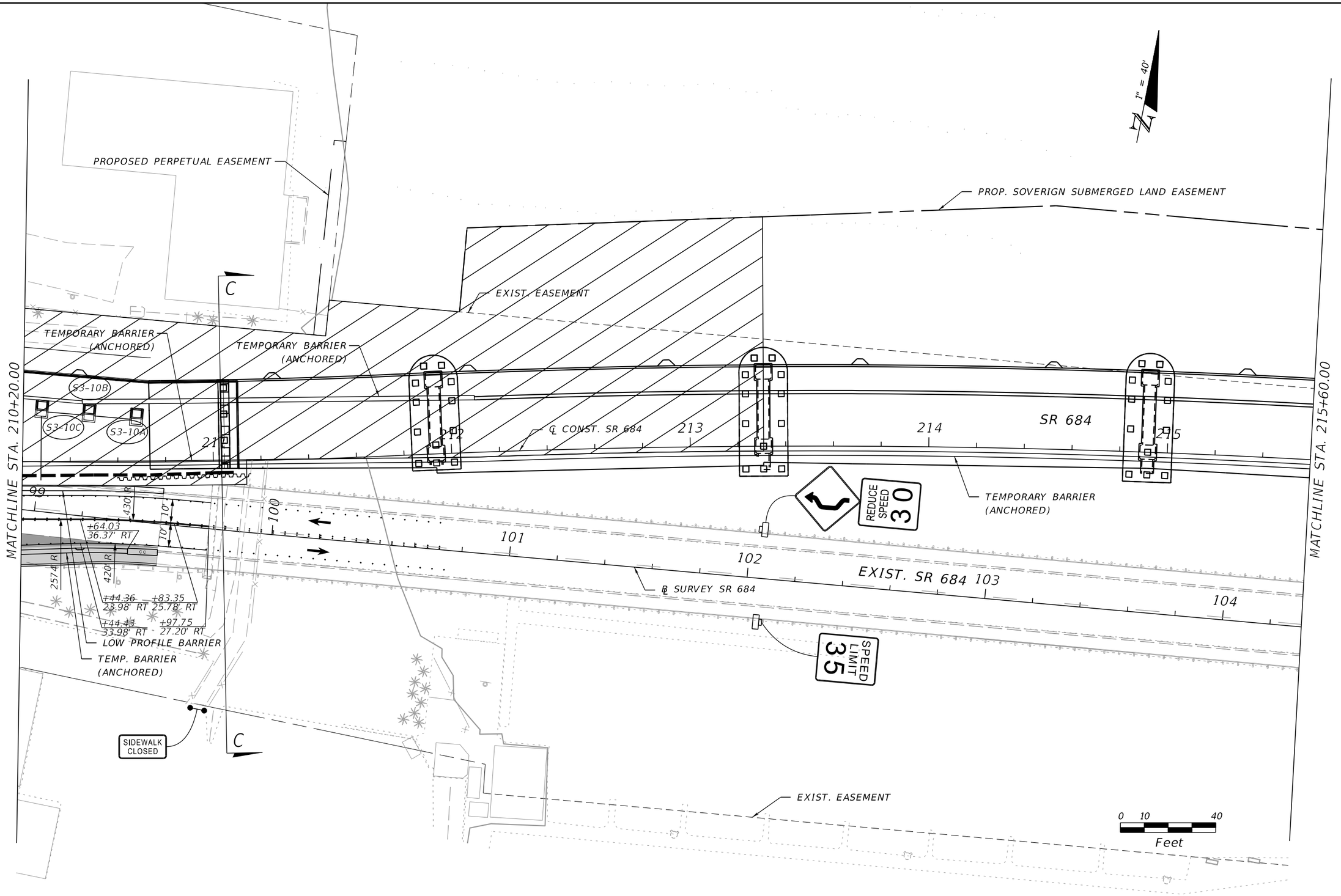
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1B-2

SHEET NO. 168



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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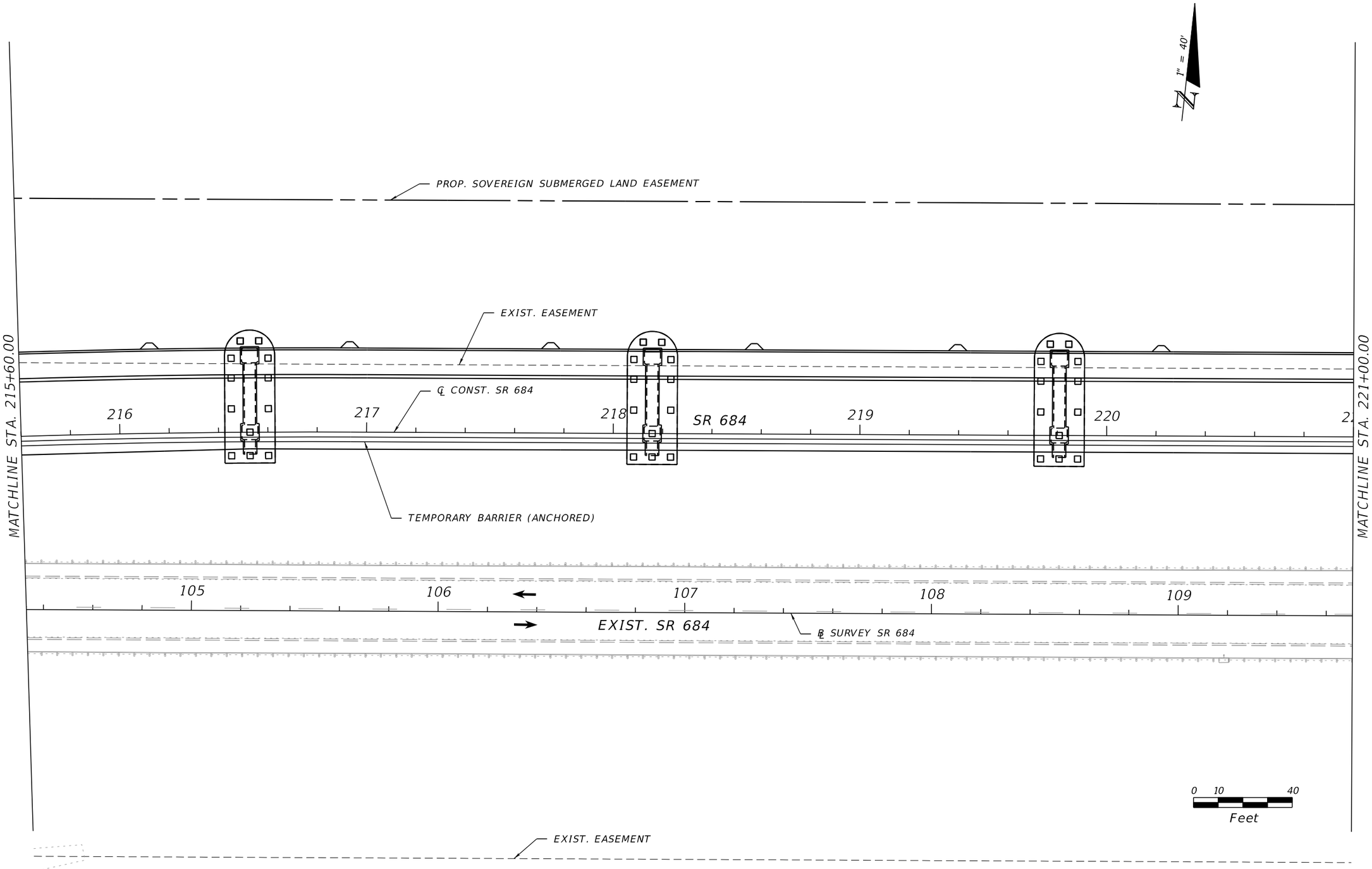
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1B-2

SHEET NO. 169

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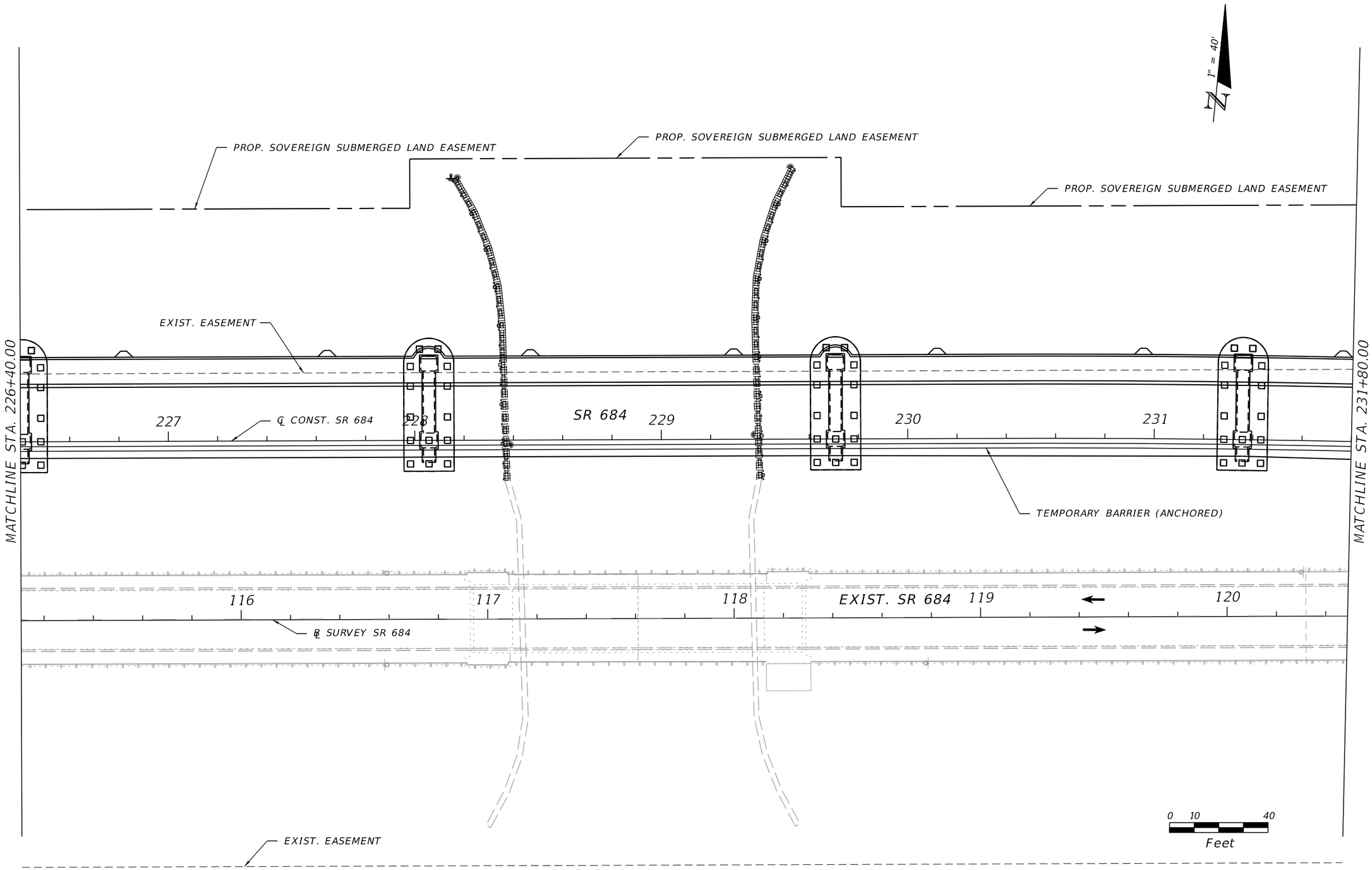
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1B-2

SHEET NO. 170



REVISIONS			
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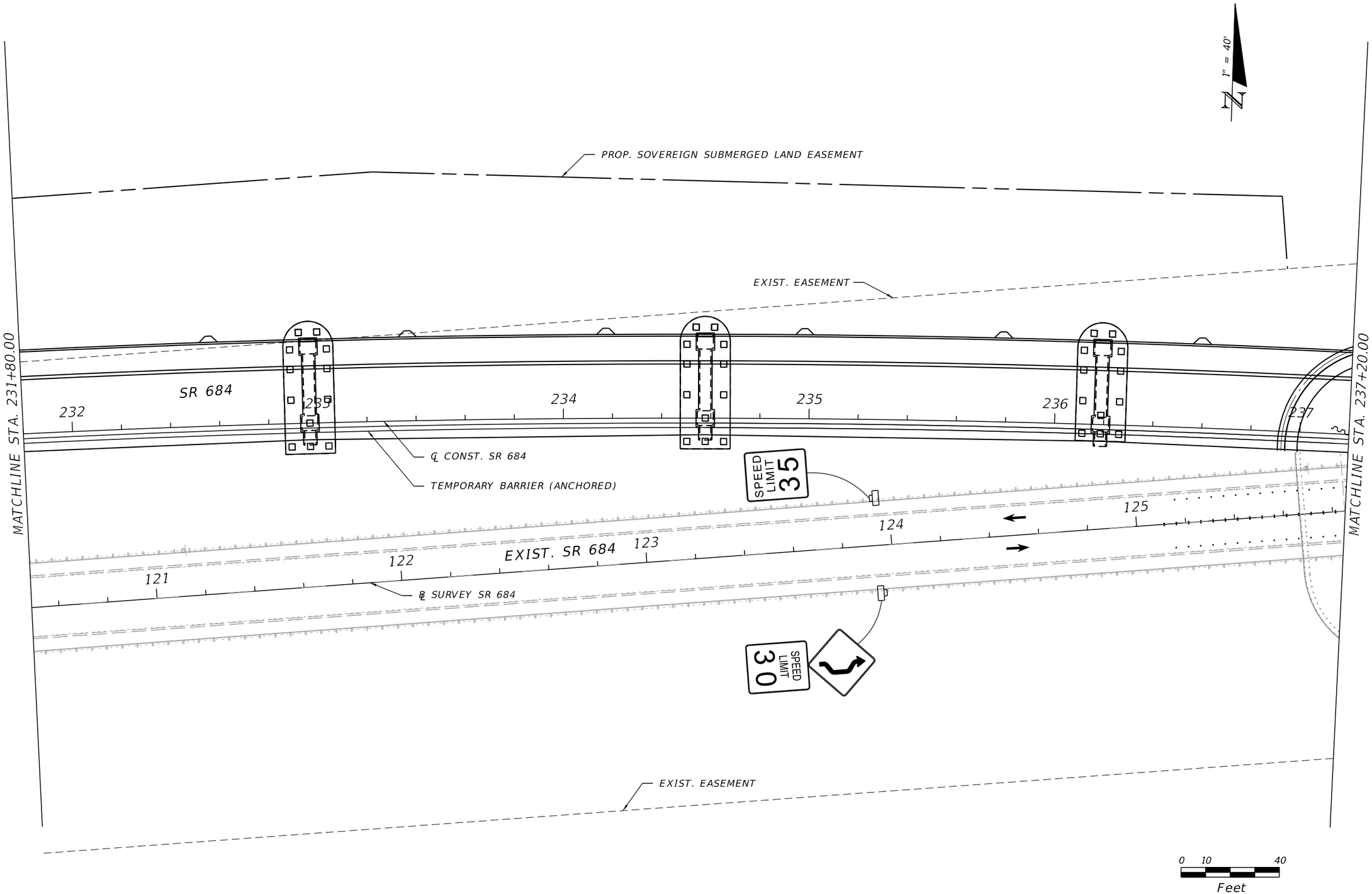
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1B-2

SHEET NO. 171

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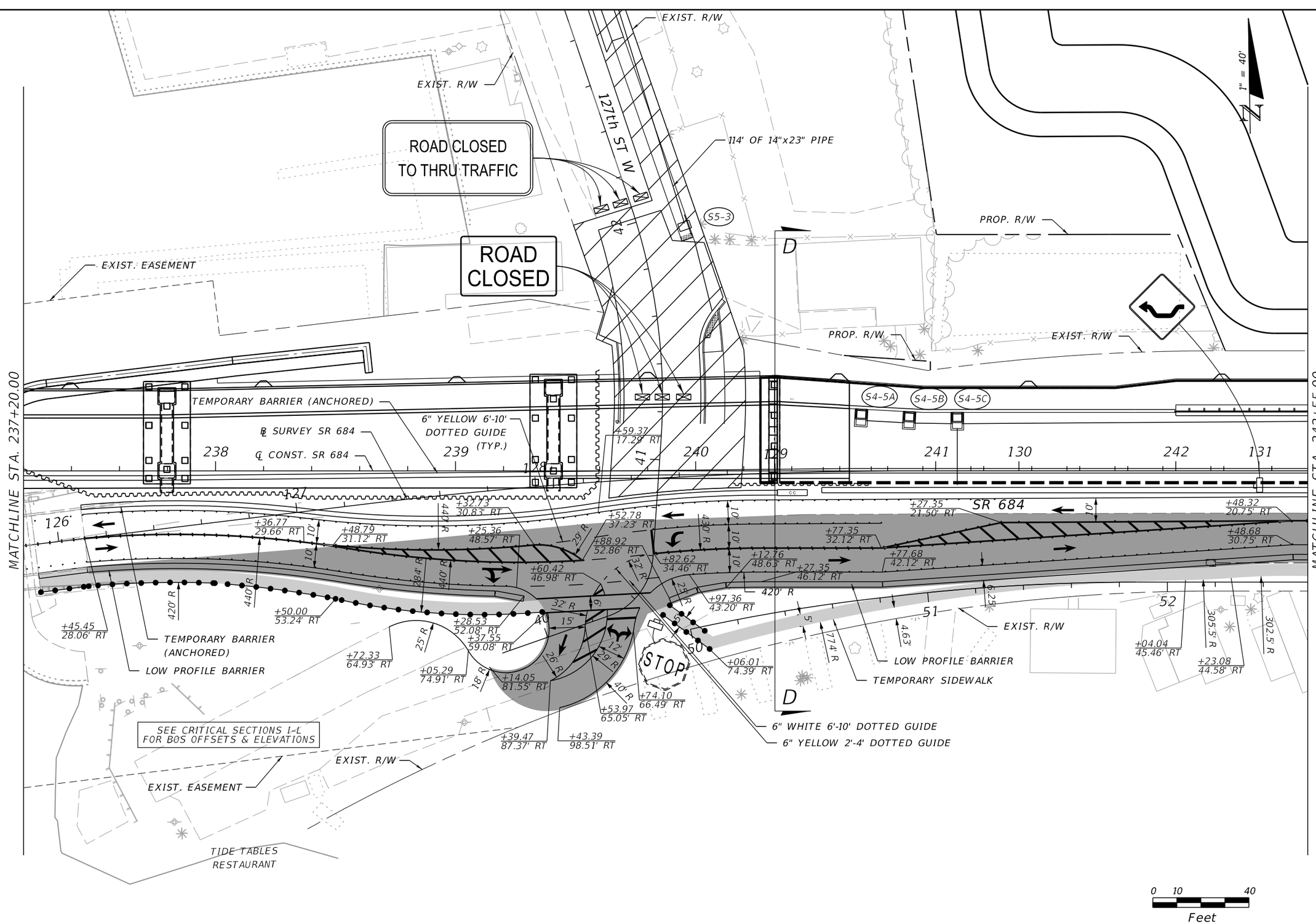
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1B-2

SHEET NO. 172

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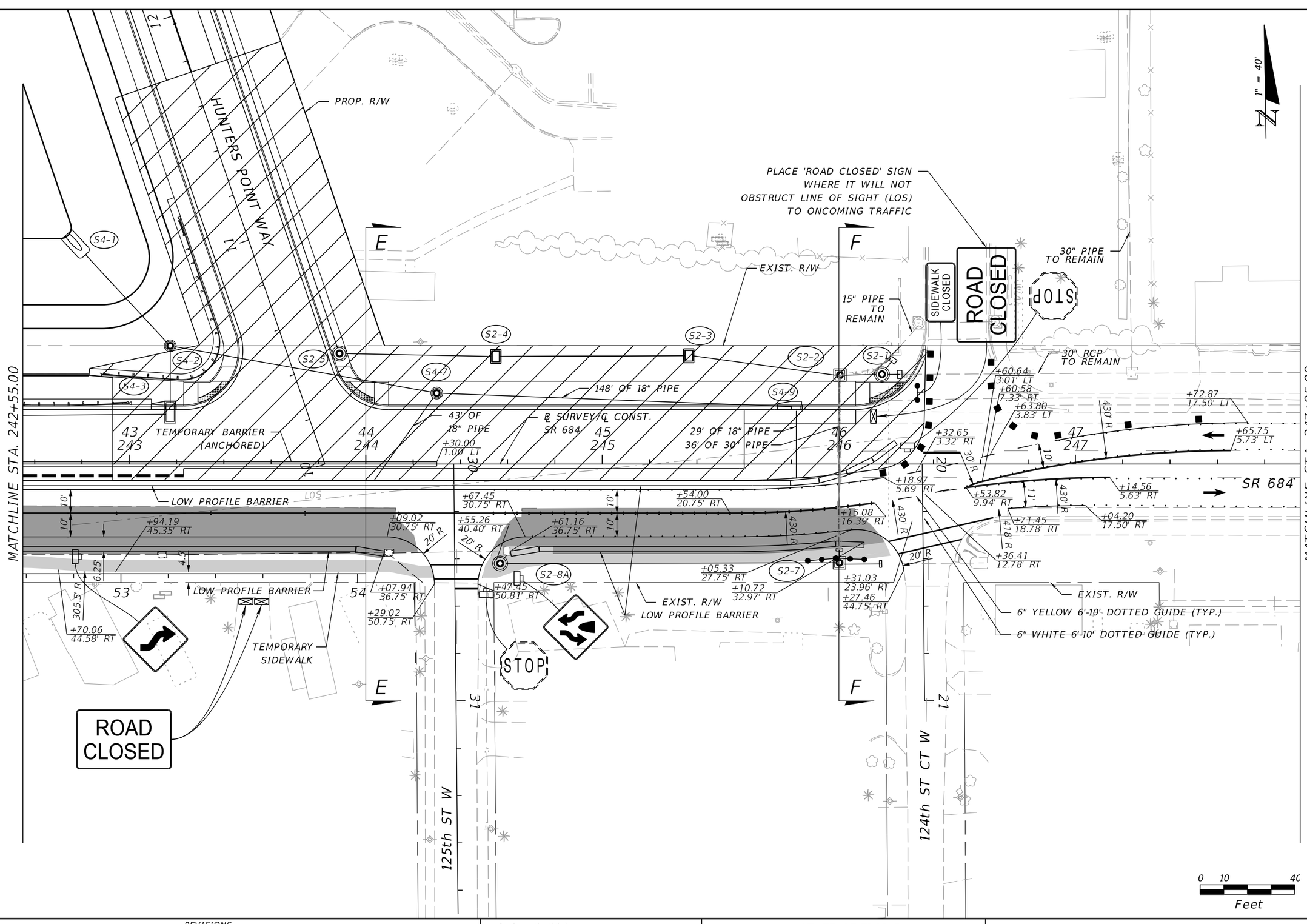
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1B-2

SHEET NO. 173



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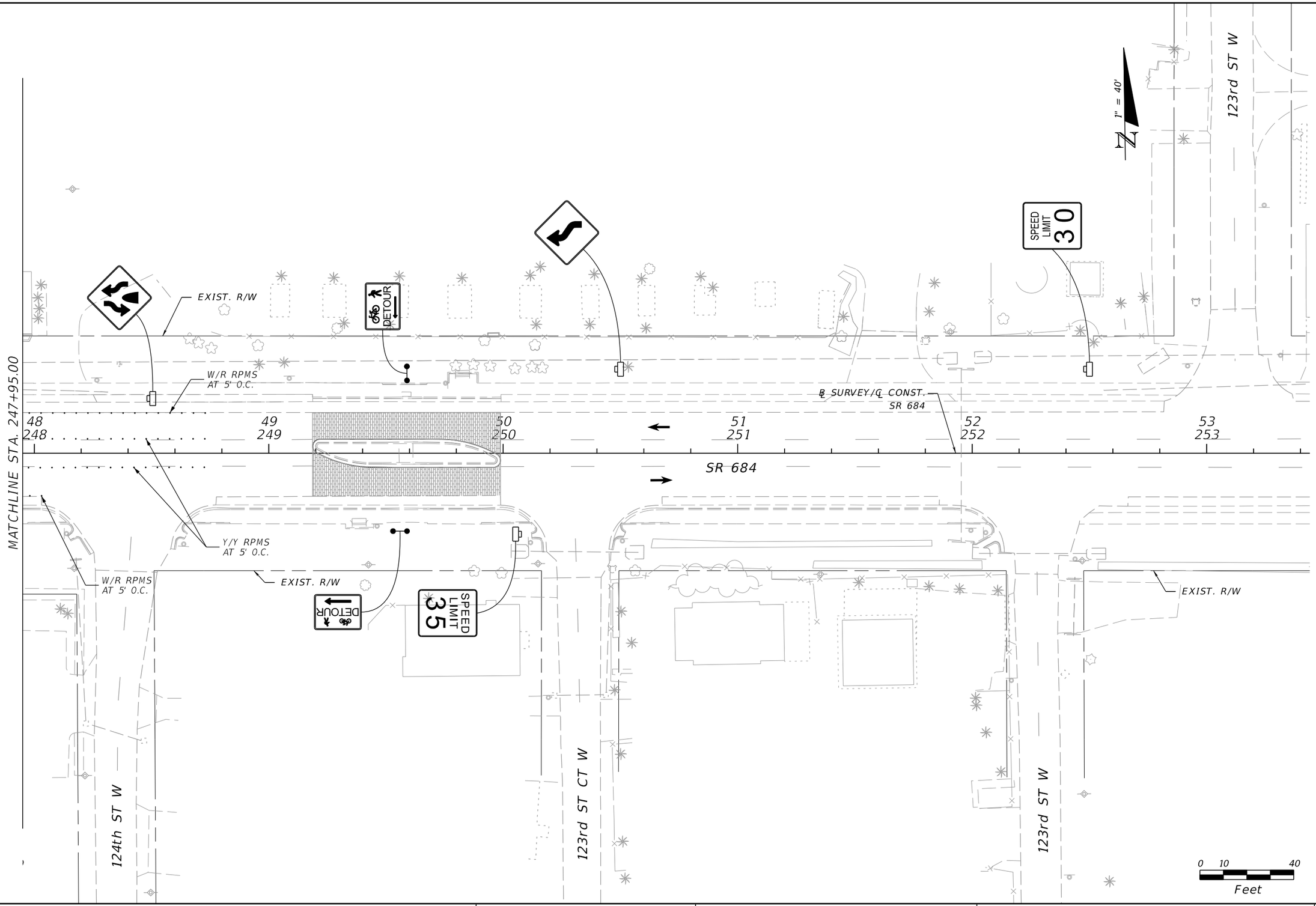
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1B-2

SHEET NO. 174



REVISIONS			
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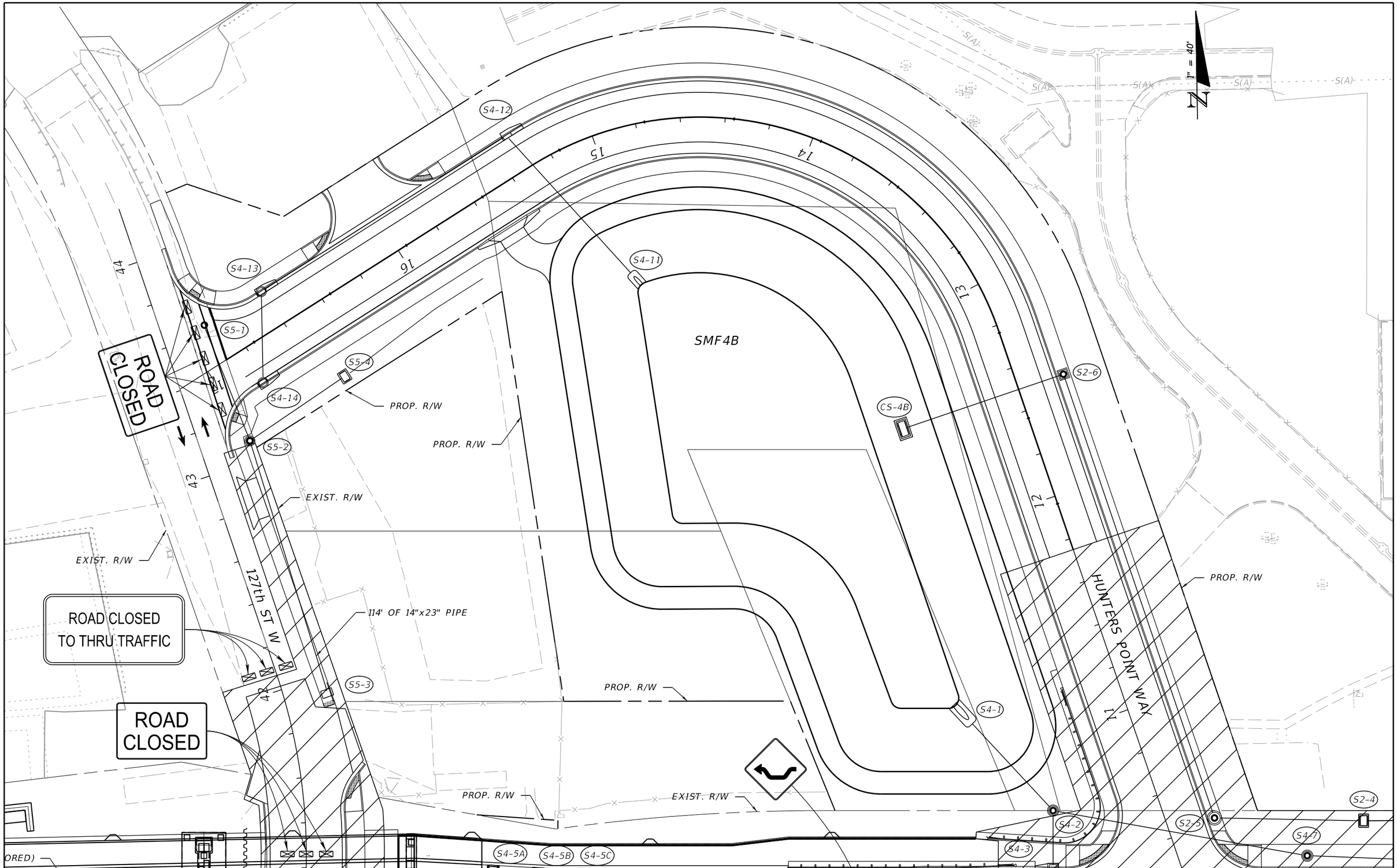
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 1B-2

SHEET NO. 175

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
HUNTERS PT W PHASE 1B-2

SHEET NO. 176

1. DETOUR
127TH ST W

2. DETOUR
127TH ST W

3. DETOUR
127TH ST W

4. DETOUR
CORTEZ RD

5. DETOUR
CORTEZ RD

6. DETOUR
CORTEZ RD

7. ROAD CLOSED
DETOUR
WITH TYPE III BARRICADE

8. ROAD CLOSED TO THRU TRAFFIC
WITH TYPE III BARRICADE

9. END DETOUR

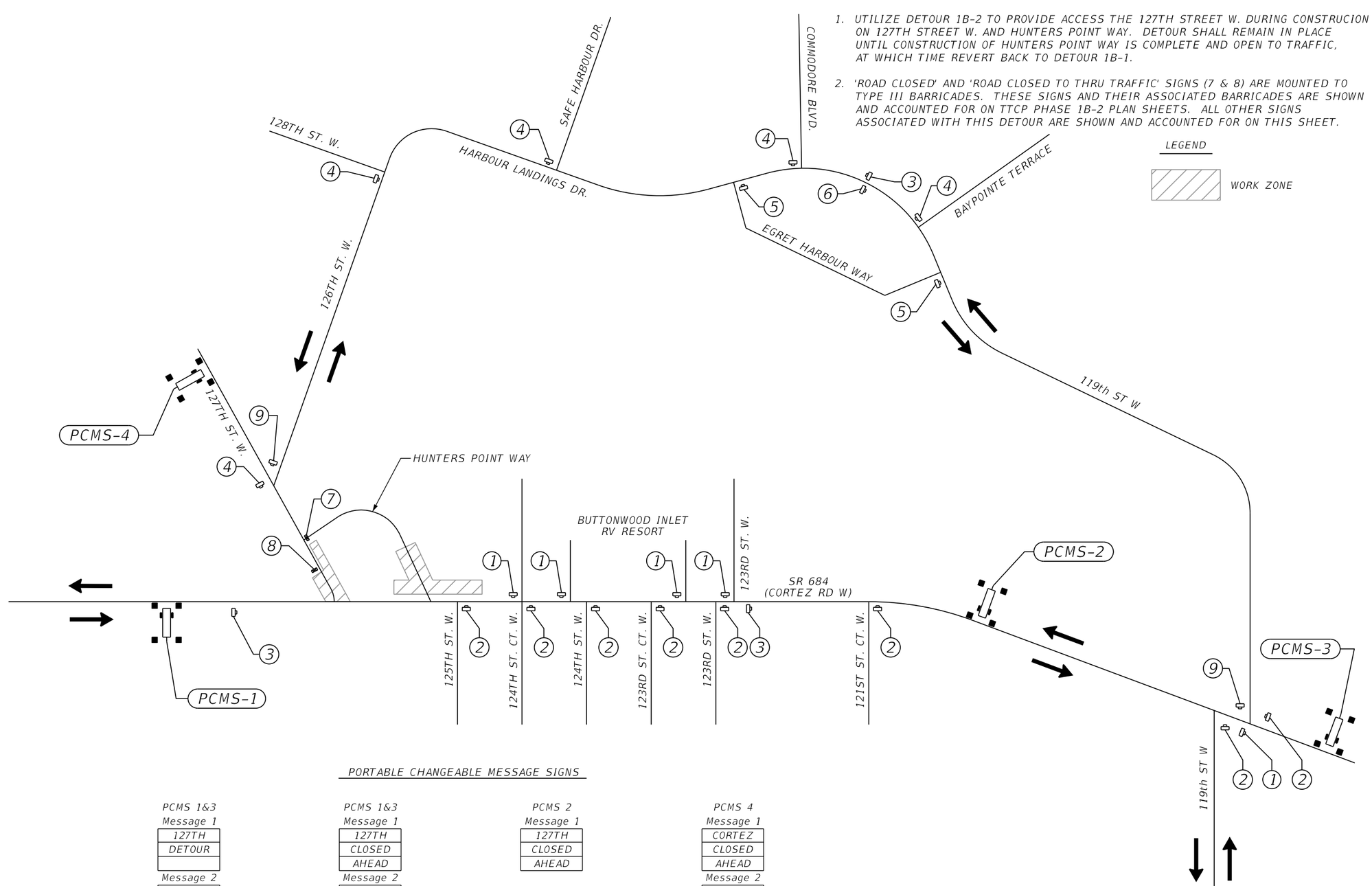
NOTES:

1. UTILIZE DETOUR 1B-2 TO PROVIDE ACCESS THE 127TH STREET W. DURING CONSTRUCION ON 127TH STREET W. AND HUNTERS POINT WAY. DETOUR SHALL REMAIN IN PLACE UNTIL CONSTRUCTION OF HUNTERS POINT WAY IS COMPLETE AND OPEN TO TRAFFIC, AT WHICH TIME REVERT BACK TO DETOUR 1B-1.

2. 'ROAD CLOSED' AND 'ROAD CLOSED TO THRU TRAFFIC' SIGNS (7 & 8) ARE MOUNTED TO TYPE III BARRICADES. THESE SIGNS AND THEIR ASSOCIATED BARRICADES ARE SHOWN AND ACCOUNTED FOR ON TTCP PHASE 1B-2 PLAN SHEETS. ALL OTHER SIGNS ASSOCIATED WITH THIS DETOUR ARE SHOWN AND ACCOUNTED FOR ON THIS SHEET.

LEGEND

WORK ZONE



PORTABLE CHANGEABLE MESSAGE SIGNS

PCMS 1&3	PCMS 1&3	PCMS 2	PCMS 4
Message 1	Message 1	Message 1	Message 1
127TH	127TH	127TH	CORTEZ
DETOUR	CLOSED	CLOSED	CLOSED
	AHEAD	AHEAD	AHEAD
Message 2	Message 2		Message 2
STARTING	USE		USE
ON	119TH		126TH
XX-XX-XX	DETOUR		DETOUR
MESSAGE TO BE DISPLAYED 14 DAYS PRIOR TO DETOUR START DATE.	MESSAGE TO BE DISPLAYED FOR DURATION OF DETOUR.	MESSAGE TO BE DISPLAYED FOR DURATION OF DETOUR.	MESSAGE TO BE DISPLAYED FOR DURATION OF DETOUR.

127TH STREET W. DETOUR PLAN

PHASE 1B-2

REVISIONS			
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SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
TEMPORARY DETOUR 1B-2

SHEET NO. 177

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MATCHLINE STA. 194+00.00

W/R RPMS AT 5' O.C.

6" WHITE

+10.11
20.00' LT

GULF DR

94 195 196 197 198

10' 11' 11'

+28.33
0.78' RT

+65.10
11.69' RT

℄ CONST. SR 789

+10.11
10.00' LT

Y/Y RPMS AT 5' O.C.

6" DBL. YELLOW

6" WHITE

1" = 40'

0 10 40

MATCHLINE STA. 194+00.00

+71.25
68.97' LT

6" YELLOW 6'-10' DOTTED GUIDE

+83.42
64.43' LT

+24.90
29.46' LT

+91.93
20.24' LT

+34.65
29.00' LT

+45.90
9.00' LT

+23.64
30.04' LT

℄ CONST. SR 789

LOW PROFILE BARRIER

W/R RPMS AT 5' O.C.

205 94 206 95 207 96 208 97 209 98 210

SR 684

+90.84
9.00' LT

+50.00
1.00' RT

+60.71
9.65' LT

+34.95
9.00' LT

℄ CONST. SR 684

℄ SURVEY SR 684

+20.55
10.55' RT

+29.86
10.44' RT

+64.34
2.05' LT

+91.93
12.71' LT

+84.63
12.53' LT

Y/Y RPMS AT 5' O.C.

W/R RPMS AT 5' O.C.

+46.00
20.33' RT

+84.28
4.85' RT

+30.72
12.83' RT

+84.00
18.14' RT

TEMPORARY BARRIER (ANCHORED)

23' OF 18" PIPE

61' OF 18" PIPE

76' OF 18" PIPE

31' OF 18" PIPE

SMF3-1
(SEE POND DETAILS)

SMF3-2
(SEE POND DETAILS)

EXIST. R/W

+08.80
11.58' RT

+04.31
0.00' RT

+98.31
17.86' LT

+04.31
12.08' RT

+98.31
22.28' RT

+94.31
11.46' RT

+98.30
10.76' LT

6" WHITE

6" DBL. YELLOW (TYP.)

6" WHITE (TYP.)

GULF DR

N 17° 05' 00" W

MATCHLINE STA. 191+20.00

REFER TO TEMPORARY SIGNAL TIMINGS FOR THIS CONSTRUCTION PHASE.

0 10 40
Feet

1" = 40'

SIDEWALK CLOSED

EXIST. R/W

6" YELLOW 2'-4' DOTTED GUIDE (TYP.)

S1-1 S1-1A S1-1B S1-1C S1-2 S1-3 S1-4 S1-5 S1-5A S1-6 S1-7

S3-1 S3-2 S3-3 S3-4 S3-5 S3-6 CS3-1

A B

DETOUR

SIDEWALK CLOSED

MATCHLINE STA. 210+20.00

MATCHLINE STA. 191+20.00

℄ CONST. SR 789

189 190 191

+46.63
0.17' RT

+63.53
11.34' RT

+32.39
10.26' RT

+18.31
14.47' LT

Y/Y RPMS AT 5' O.C.

6" DBL. YELLOW (TYP.)

6" WHITE

GULF DR

0 10 40
Feet

1" = 40'

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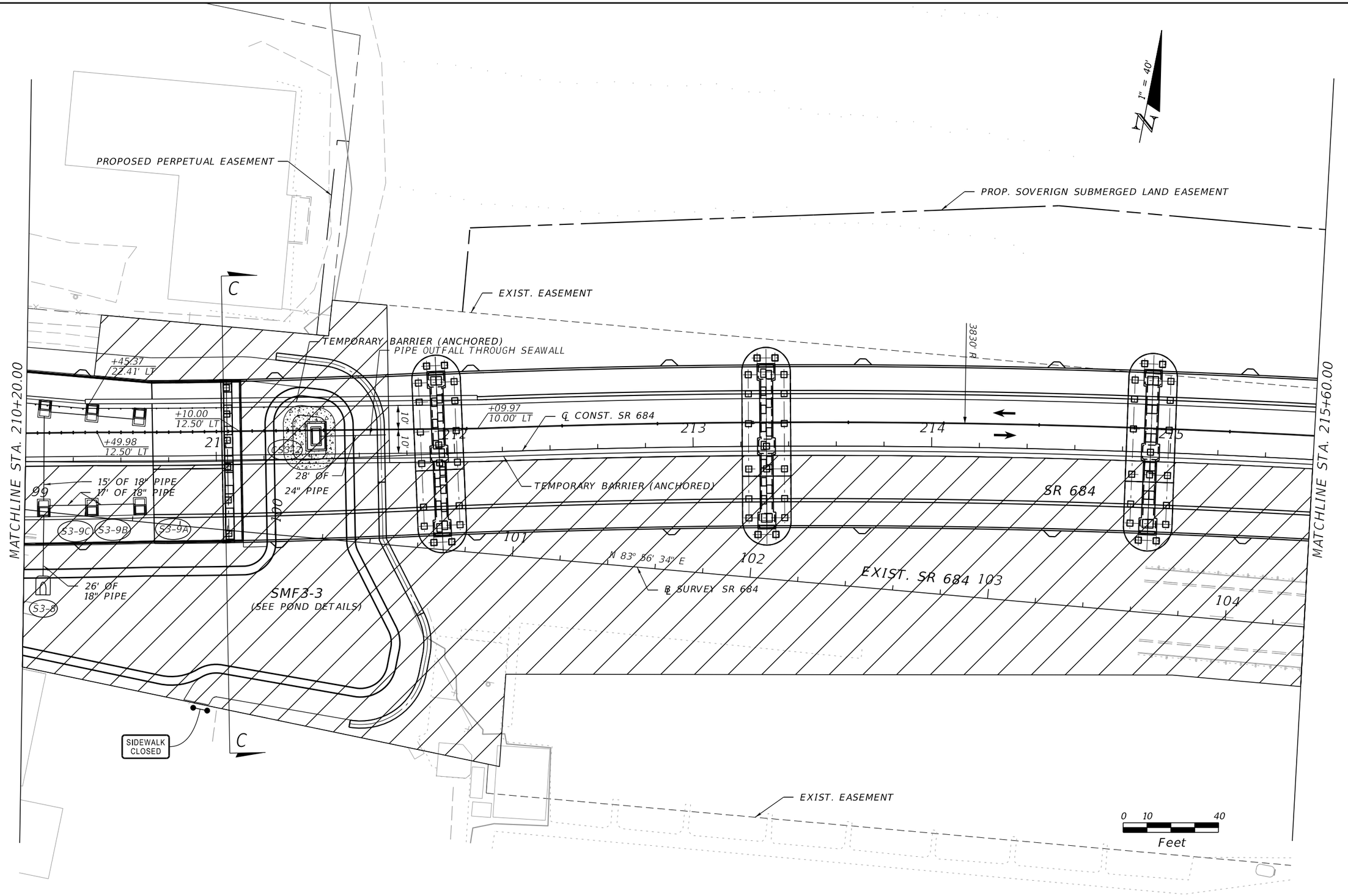
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 2

SHEET NO. 178



REVISIONS			
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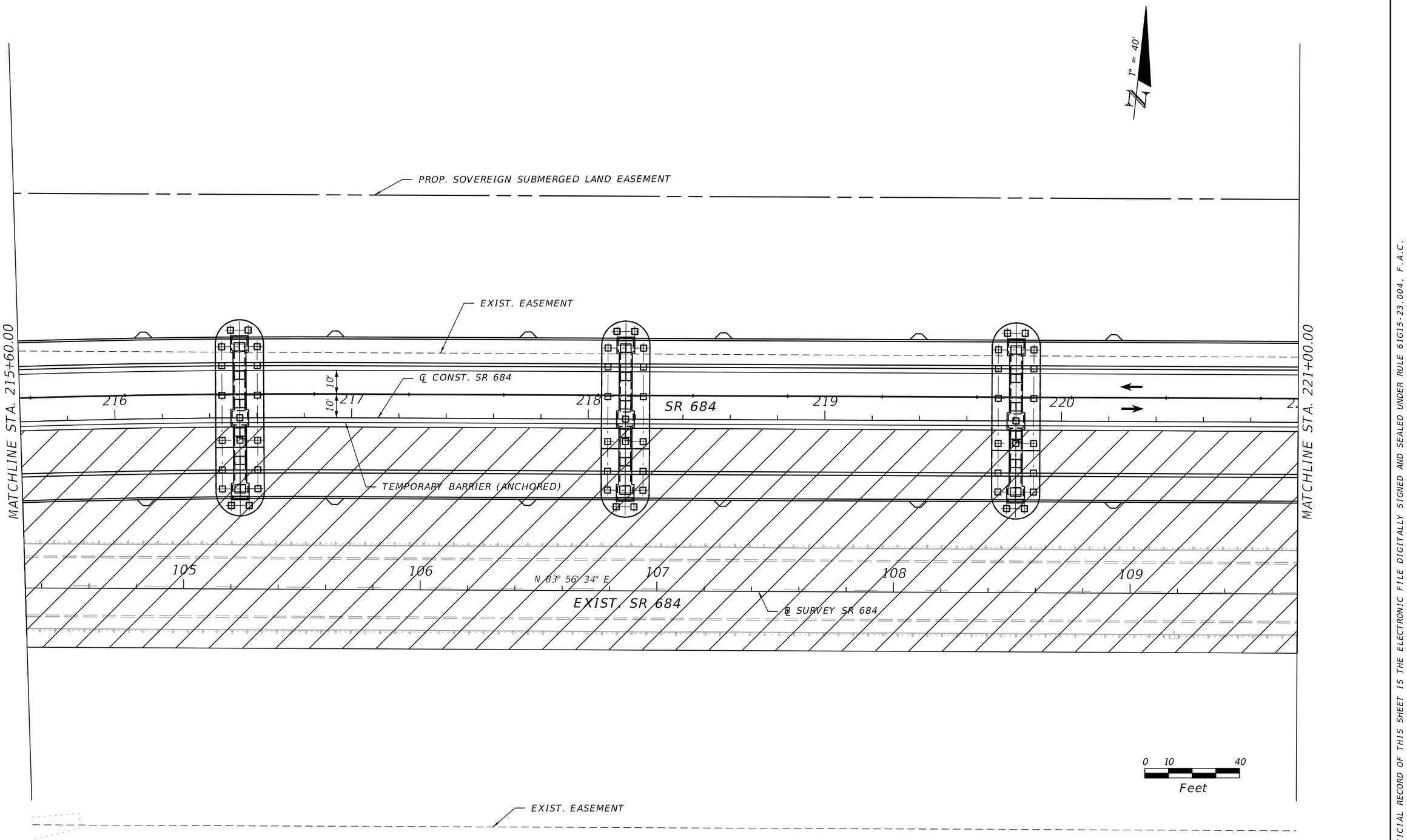
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 2

SHEET NO. 179

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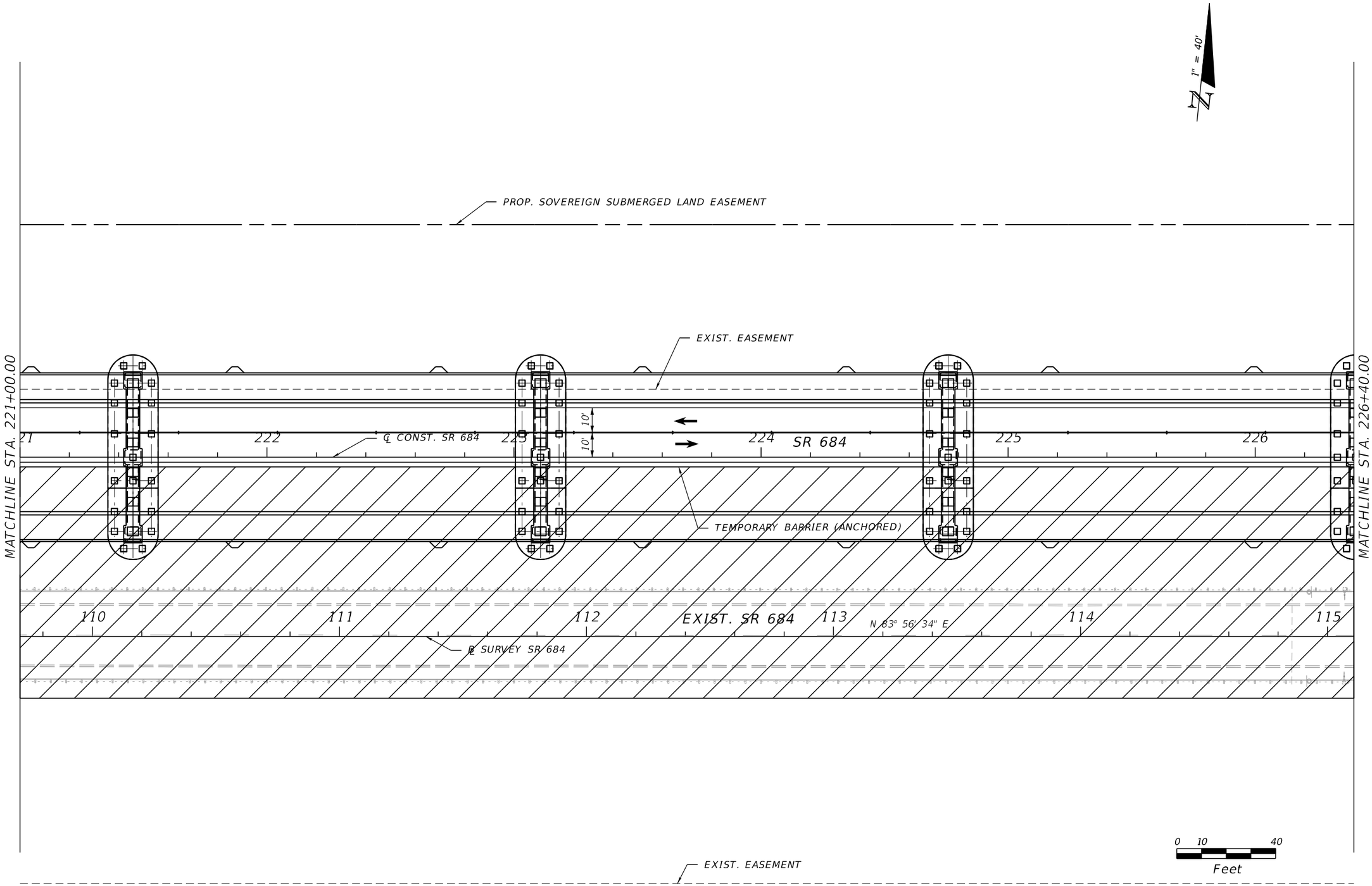
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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 2

SHEET NO.
180

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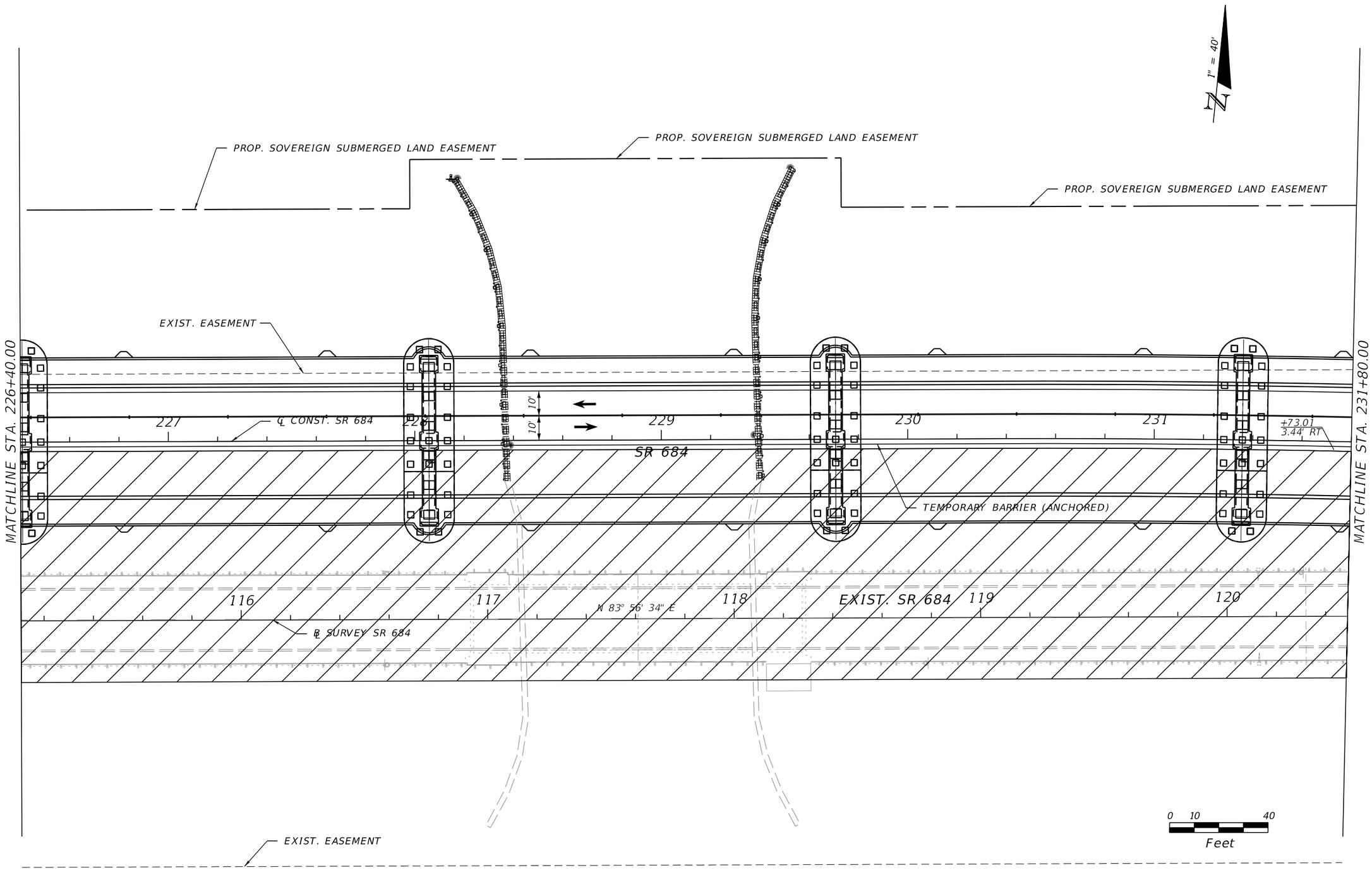
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 2

SHEET NO. 181

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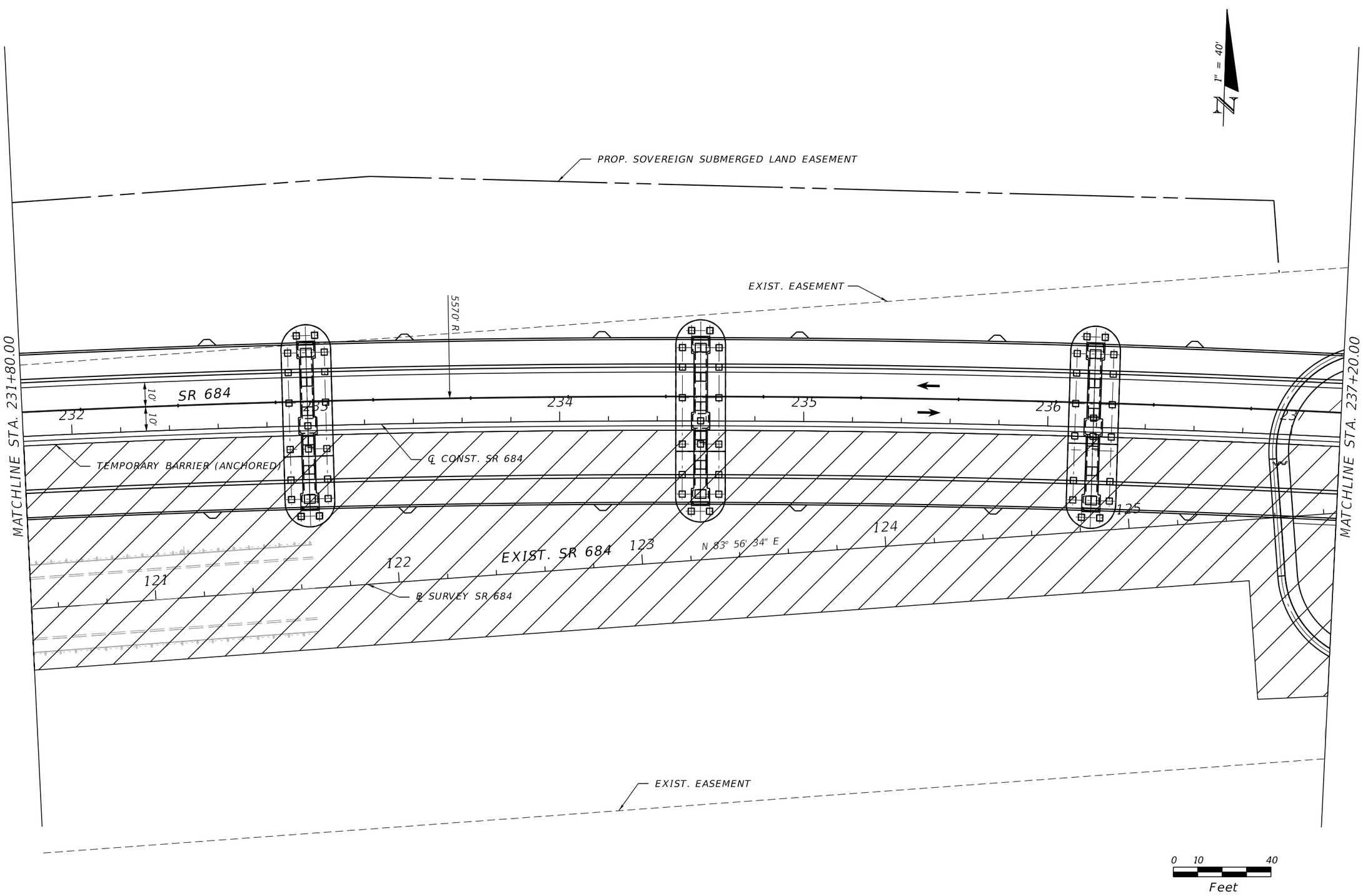
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 2

SHEET NO. 182

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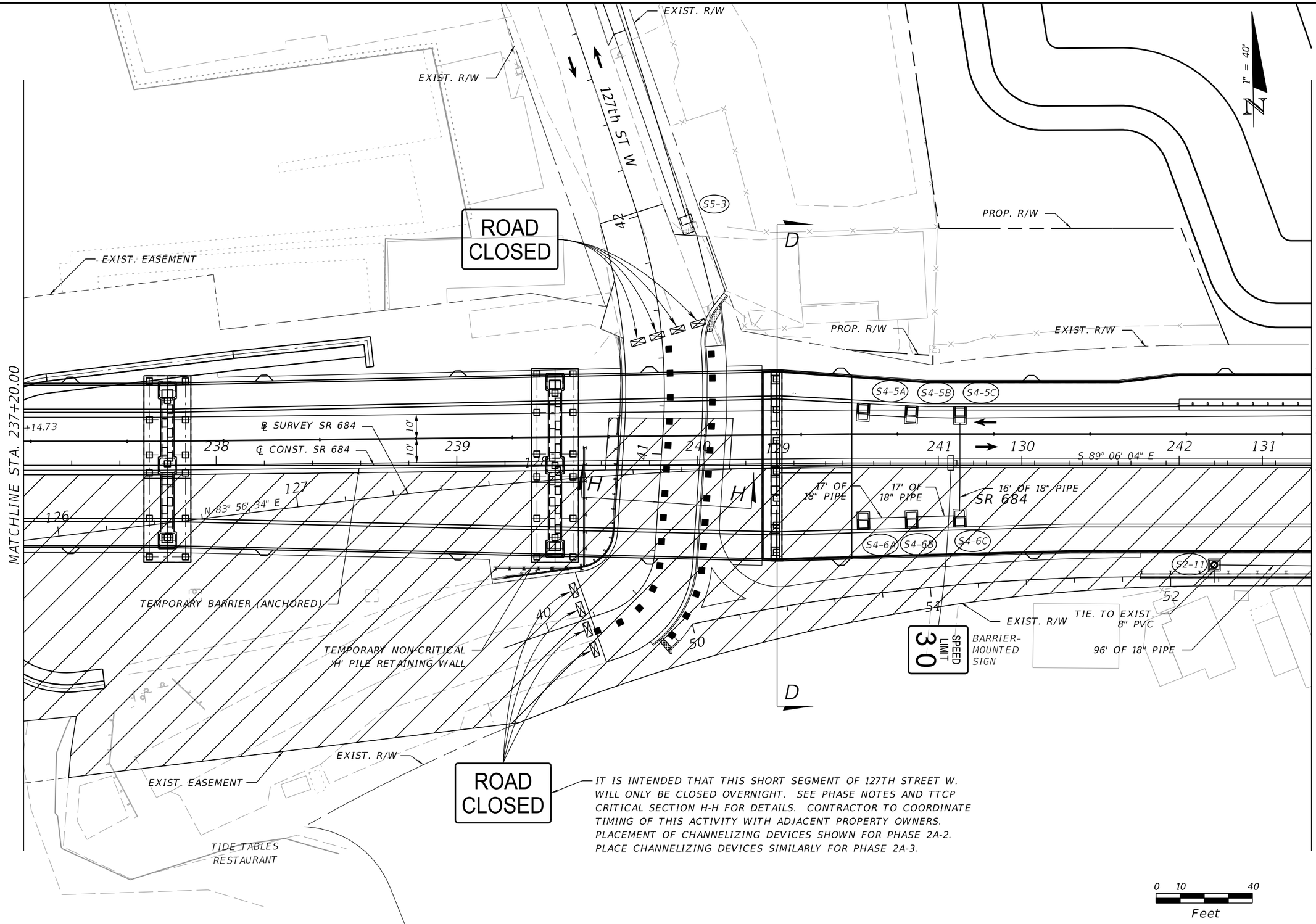
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 2

SHEET NO. 183

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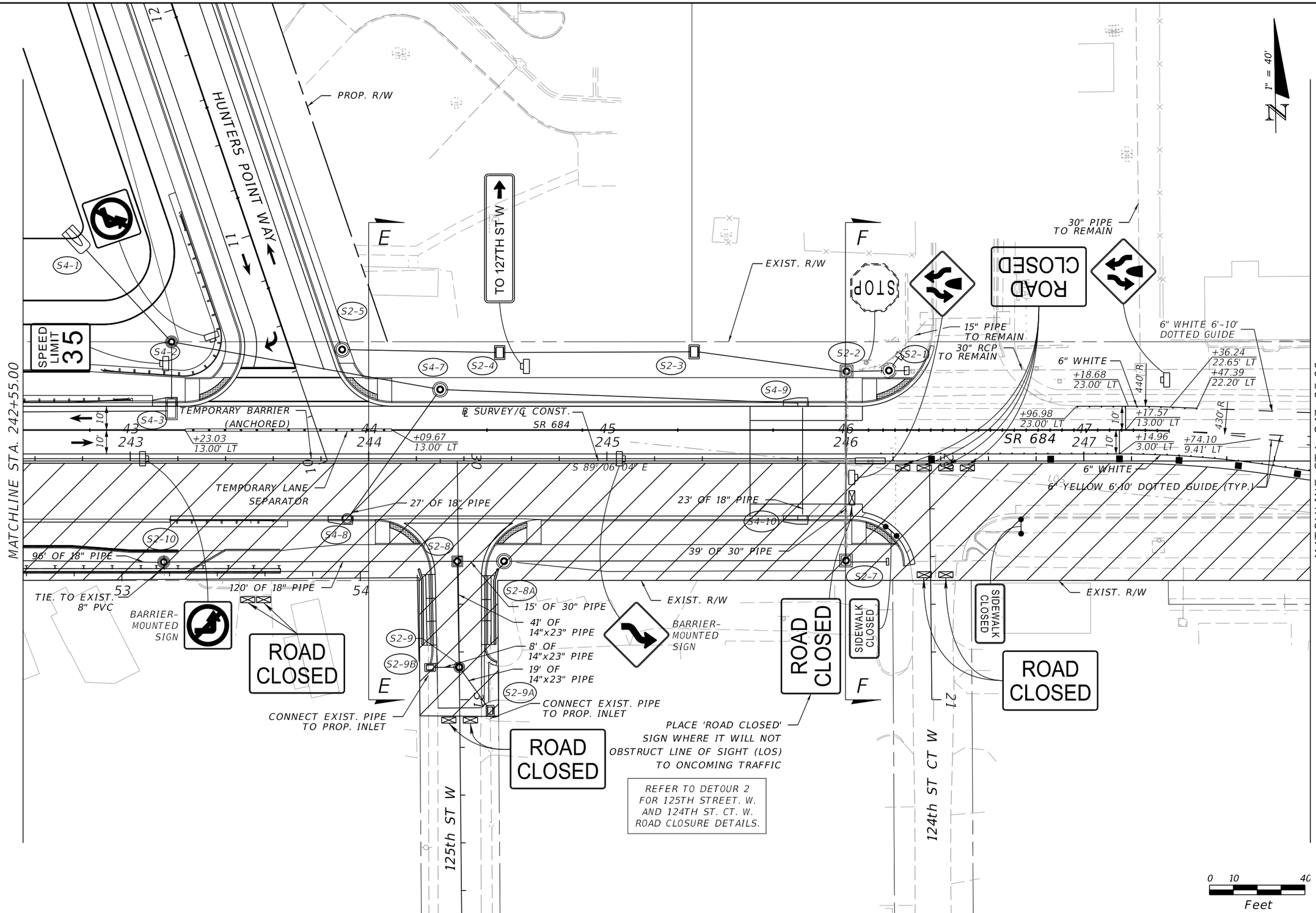
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DEPARTMENT OF TRANSPORTATION

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SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 2

SHEET NO. 184



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SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 2

SHEET NO. 185

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1" = 40'

123rd ST W

SPEED LIMIT 30

DETOUR

6" WHITE 6'-10' DOTTED GUIDE
EXIST. R/W

+28.08
18.98' LT

6" YELLOW 6'-10' DOTTED GUIDE

6" WHITE

+40.28
18.49' LT

1500' R

+96.32
6.25' LT

+13.58
17.36' LT

Y/Y RPMS
AT 5' O.C.

℄ SURVEY/℄ CONST.
SR 684

MATCHLINE STA. 247+95.00

+04.30
5.44' RT

6" DBL.
YELLOW

+69.57
7.32' LT

5' R

48
248

49
249

50
250

51
251

52
252

53
253

S 89° 06' 04" E

25' R

6" WHITE

+68.81
2.81' RT

430' R

430' R

440' R

6" WHITE

SR 684

6" DBL. YELLOW

6" WHITE 6'-10'
DOTTED GUIDE

W/R RPMS
AT 5'-0.C.

+25.73
29.80' RT

+41.52
34.69' RT

+26.04
49.77' RT

EXIST. R/W

SIDEWALK CLOSED

STOP

DETOUR

SPEED LIMIT 35

EXIST. R/W

124th ST W

123rd ST CT W

123rd ST W

0 10 40
Feet

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

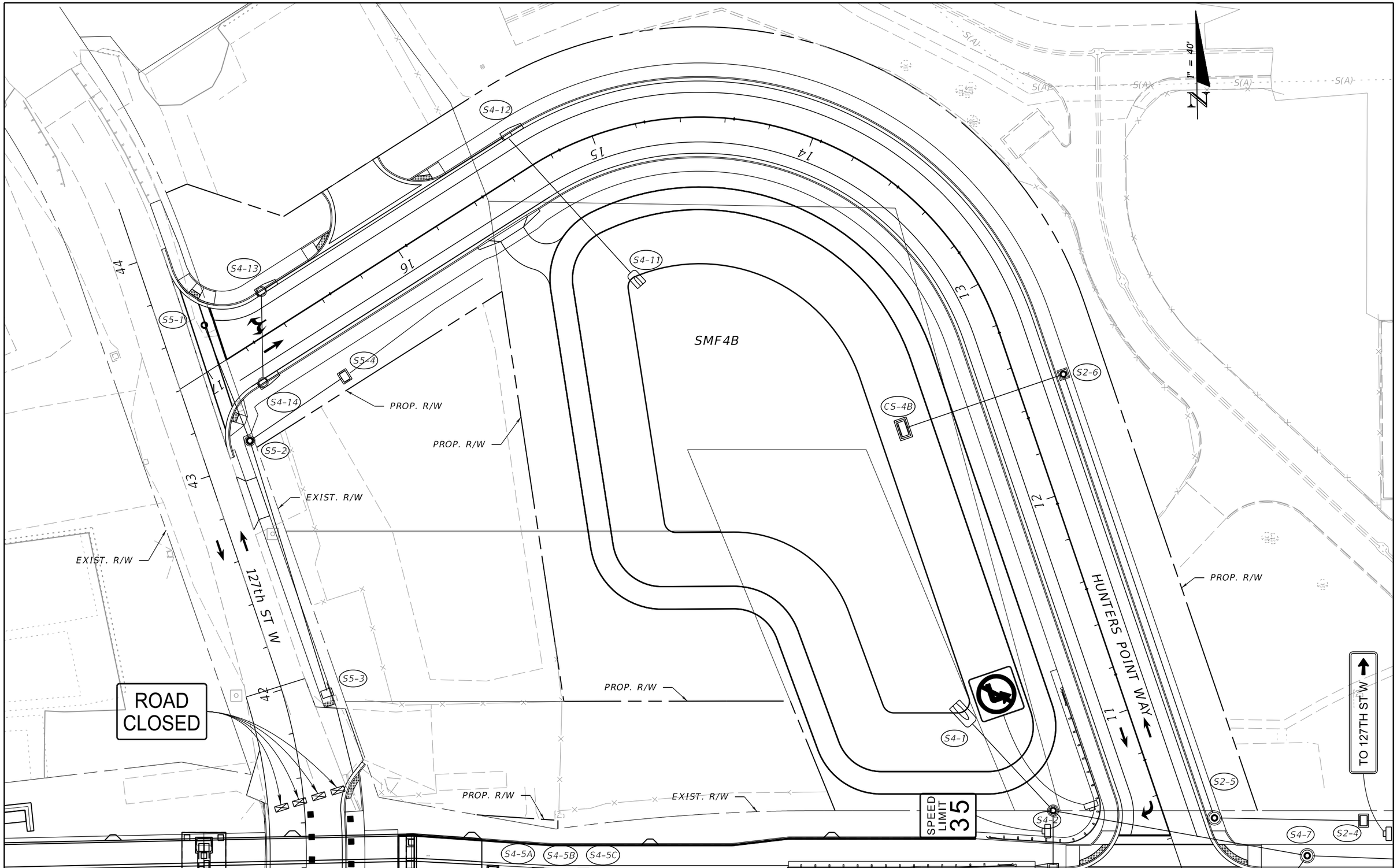
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 2

SHEET NO. 186



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REVISIONS			
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
HUNTERS POINT W PHASE 2

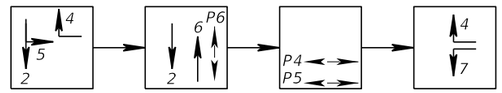
SHEET NO. 187

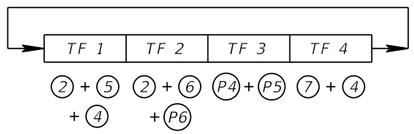
PHASE II - SEQUENCE OF CONSTRUCTION

1. EXISTING TRAFFIC CONTROLLER ASSEMBLY, SIGNAL HEADS AND OTHER EQUIPMENT SHALL BE PROTECTED AND UTILIZED.
2. APPLY TEMPORARY DETECTION ZONES.
3. CONTRUCT TEMPORARY DETOUR FOR PEDESTRIANS TO P5 ACROSS GULF DRIVE.
4. ADJUST TIMINGS AND UPDATE CONTROLLER IN CABINET.
5. OPEN P5 FOR USE.
6. COVER PEDESTRIAN SIGNAL AND DETECTOR AT P8.

NOTE: PHASE 3 TO OPERATE ON PED ACTUATION ONLY

SPECIAL S.O.P.



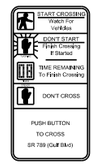


LEGEND

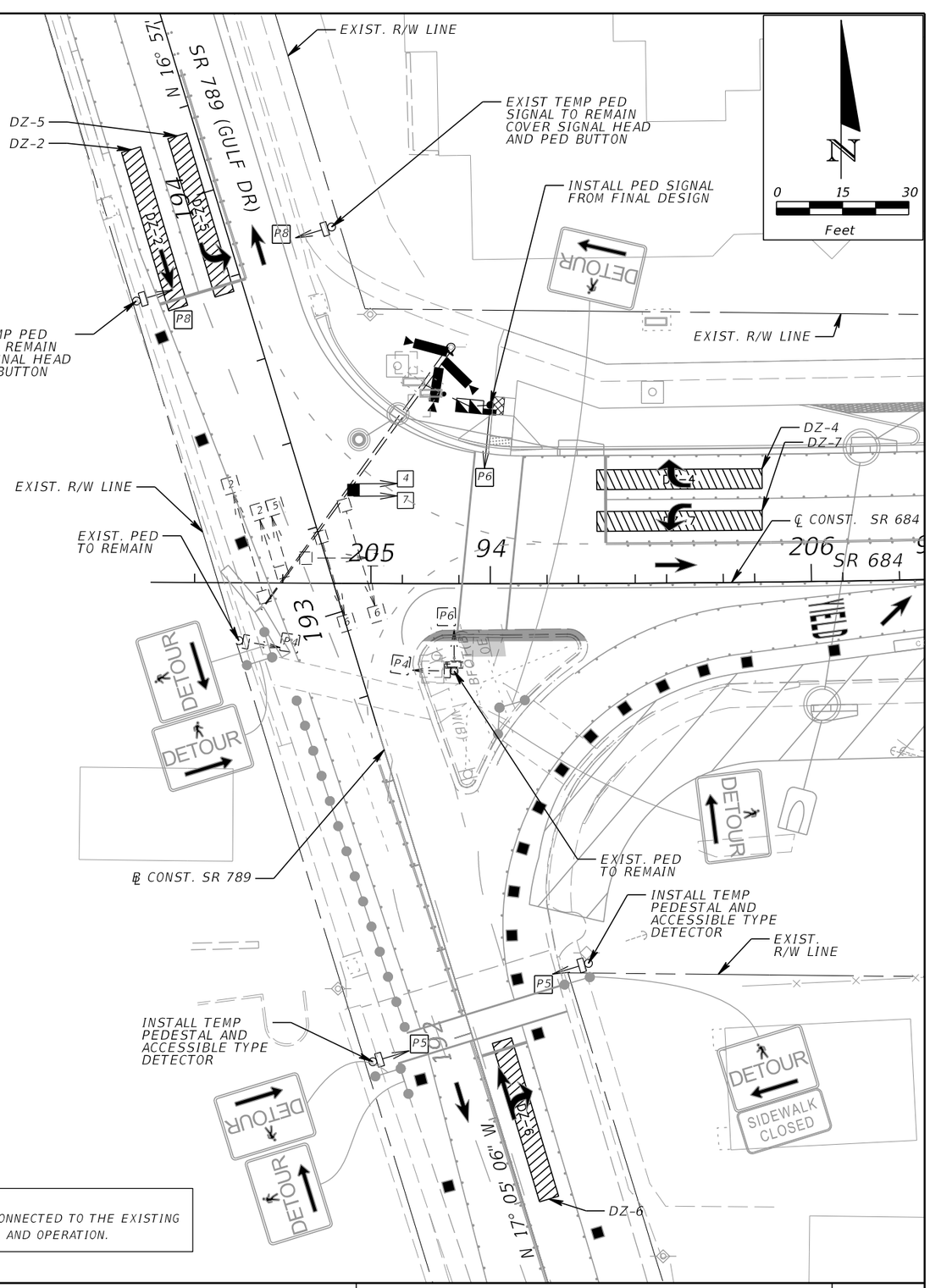
- EXIST. TRAFFIC SIGNAL
- EXIST. PEDESTRIAN SIGNAL
- TEMPORARY PROPOSED PEDESTRIAN SIGNAL
- PROPOSED MICROWAVE DETECTION FROM FINAL DESIGN



PED. SIGNAL
COUNT-DOWN
1-SECT., 1-WAY
2 AS



FTP-68B-6
9"x18"



* PREEMPTION TIMINGS TO BE REMOVED

Controller Timings

Movement # (Controller Phase Ø)	1	2	3	4	5	6	7	8	Notes
Direction		SB		WB		NB			
Turn Type									
Min Green									
Ext									
Yellow		4.0		4.0	4.0	4.0			
All Red		3.9		3.7	2.2	3.8			
Max I									
Max II									
Max Limit									
Adjust By									
Walk				7.0	7.0	7.0			
Flashing Don't Walk				8.0	9.0	10.0			
Detector Memory									
Det. Cross Switch.									
Dual Entry									
Recall									

SR 789 (GULF BLVD) POSTED SPEED 35 MPH
SR 684 (CORTEZ RD) POSTED SPEED 35 MPH

NOTES:
1. PEDESTRIAN SIGNALS SHALL BE CONNECTED TO THE EXISTING CONTROLLER FOR DETECTION, POWER, AND OPERATION.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ROB R. SWANN, P.E.
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H.W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
TEMPORARY SIGNALIZATION

SHEET NO. 188

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NOTES:

1. UTILIZE DETOUR 2 TO (A) AVOID TRAFFIC SLOWDOWNS THAT WOULD OTHERWISE OCCUR IF LEFT-TURN MOVEMENTS AT THE HUNTERS POINT WAY INTERSECTION WERE ALLOWED, AND (B) AVOID SUB-STANDARD SIGHT DISTANCE THAT WOULD OTHERWISE OCCUR IF LEFT-TURN MOVEMENTS FOR NORTHBOUND DRIVERS AT THE 124TH ST. CT. W. INTERSECTION WERE ALLOWED.

2. 'ROAD CLOSED' AND 'ROAD CLOSED TO THRU TRAFFIC' SIGNS (7 & 8) ARE MOUNTED TO TYPE III BARRICADES. THESE SIGNS AND THEIR ASSOCIATED BARRICADES, THE '127TH ST W' SIGN (12), AND THE 'NO LEFT TURN' SIGNS ARE SHOWN AND ACCOUNTED FOR ON TTCP PHASE 2 PLAN SHEETS. ALL OTHER SIGNS ASSOCIATED WITH THIS DETOUR ARE SHOWN AND ACCOUNTED FOR ON THIS SHEET.

1 DETOUR
127TH ST W

2 DETOUR
127TH ST W

3 DETOUR
127TH ST W

4 DETOUR
EASTBOUND
CORTEZ RD

5 DETOUR
CORTEZ RD

6 DETOUR
CORTEZ RD

7 ROAD CLOSED

WITH TYPE III BARRICADE

8 ROAD CLOSED TO THRU TRAFFIC

WITH TYPE III BARRICADE

9 END DETOUR

10 TO BEACHES

11 TO BEACHES

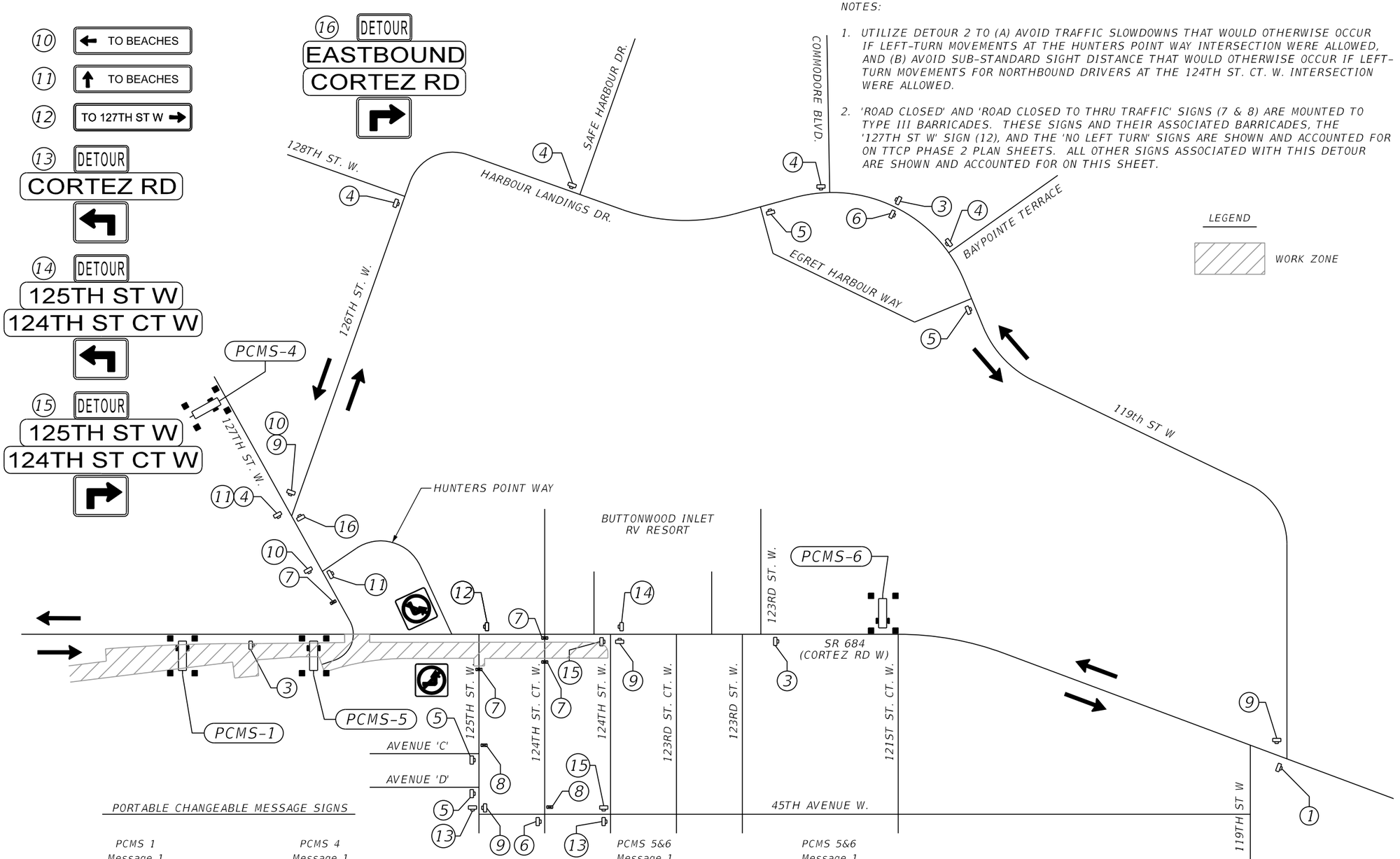
12 TO 127TH ST W

13 DETOUR
CORTEZ RD

14 DETOUR
125TH ST W
124TH ST CT W

15 DETOUR
125TH ST W
124TH ST CT W

16 DETOUR
EASTBOUND
CORTEZ RD



LEGEND

WORK ZONE

PORTABLE CHANGEABLE MESSAGE SIGNS

PCMS 1 Message 1	PCMS 4 Message 1	PCMS 5&6 Message 1	PCMS 5&6 Message 1
127TH	EASTBND	124TH	124TH
CLOSED	CORTEZ	125TH	125TH
AHEAD	CLOSED	DETOUR	CLOSED
Message 2	**Message 2**	**Message 2**	**Message 2**
USE	USE	STARTING	USE
119TH	126TH	ON	DETOUR
DETOUR	DETOUR	XX-XX-XX	

MESSAGE TO BE DISPLAYED FOR DURATION OF DETOUR.

MESSAGE TO BE DISPLAYED FOR DURATION OF DETOUR.

MESSAGE TO BE DISPLAYED 14 DAYS PRIOR TO DETOUR START DATE.

MESSAGE TO BE DISPLAYED FOR DURATION OF DETOUR.

124TH STREET CT. W. 125TH & 127TH STREET W. DETOUR PLAN

PHASE 2

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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H. W. LOCHNER, INC.
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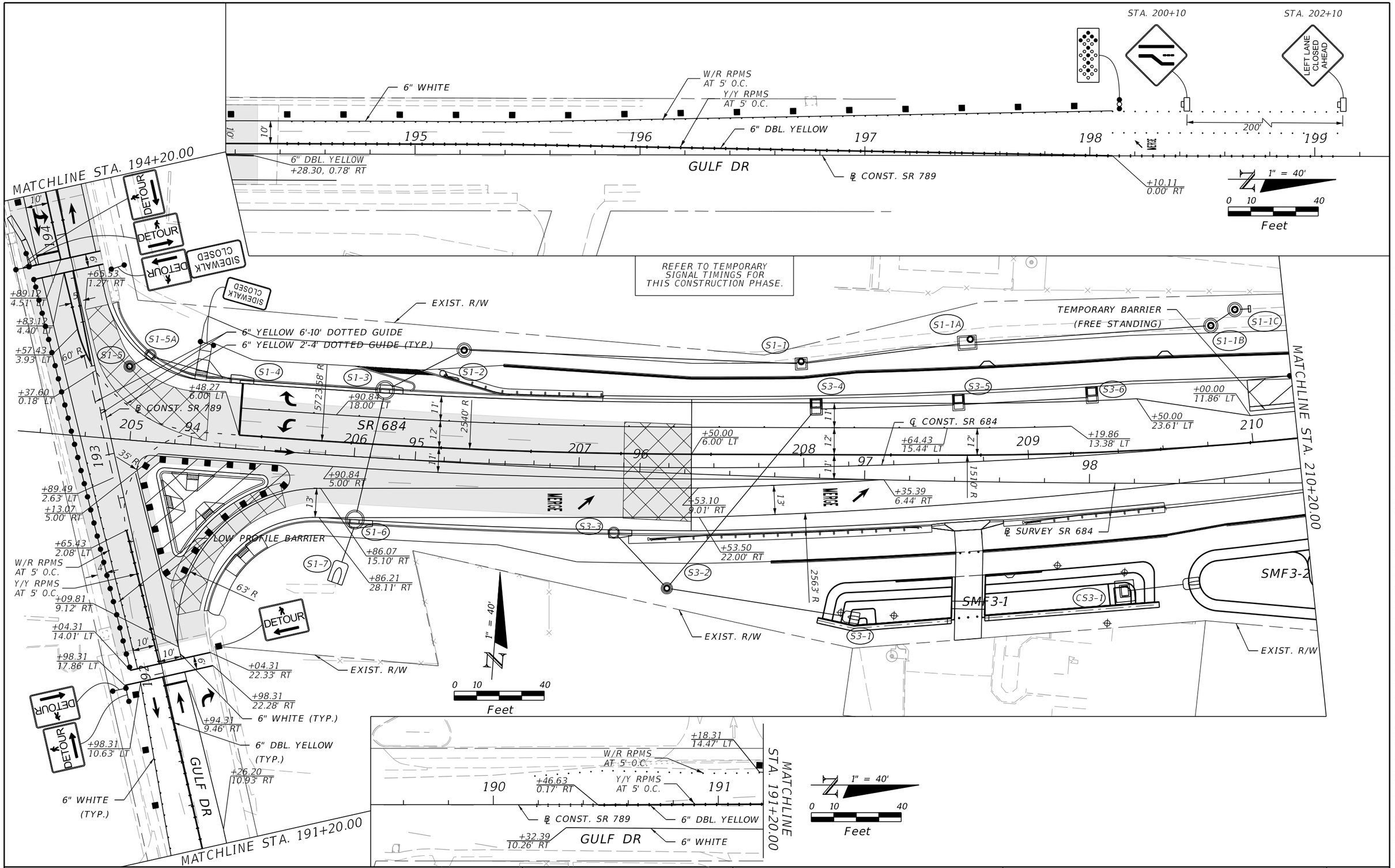
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
TEMPORARY DETOUR 2

SHEET NO. 189

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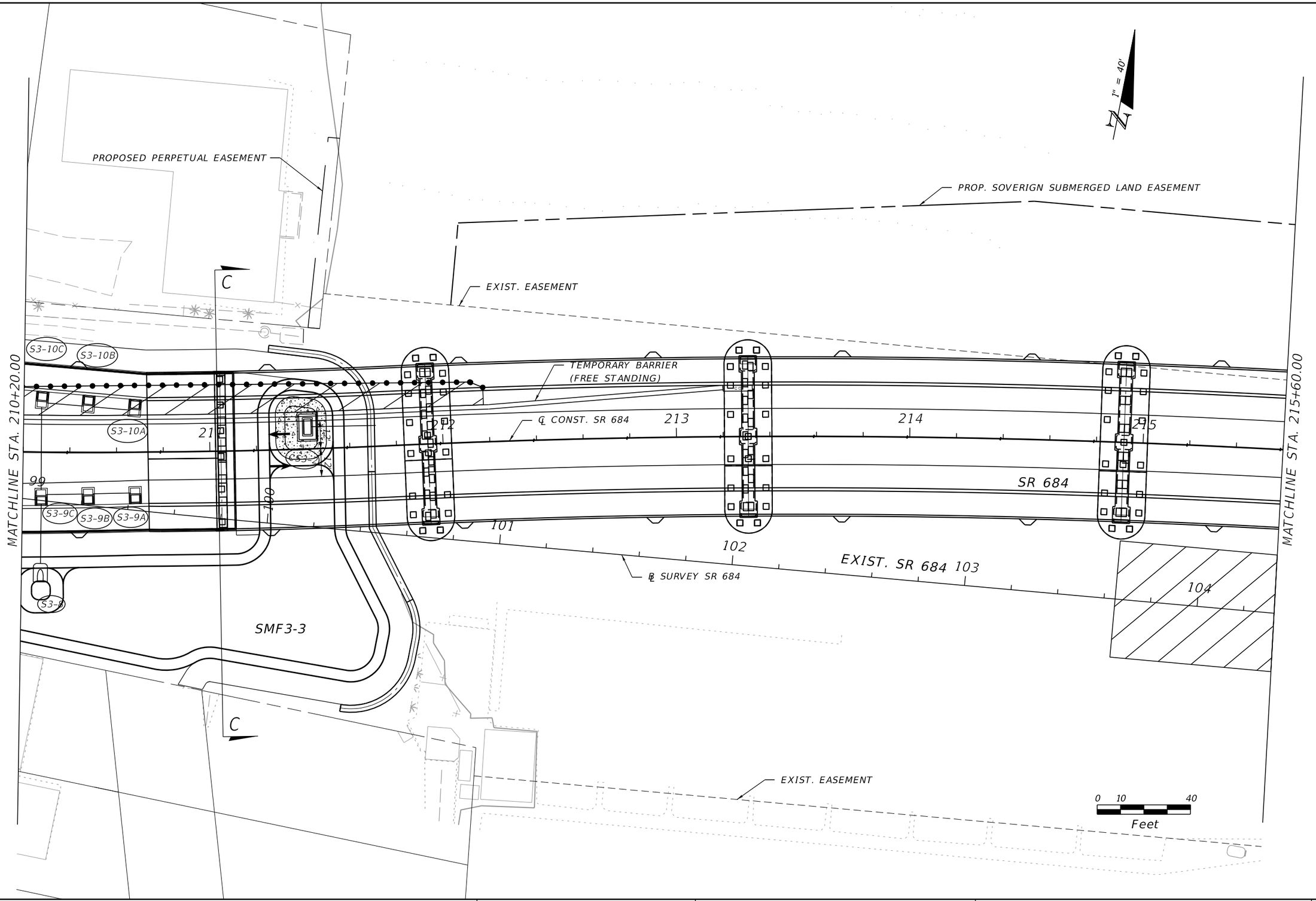
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 3

SHEET NO. 190

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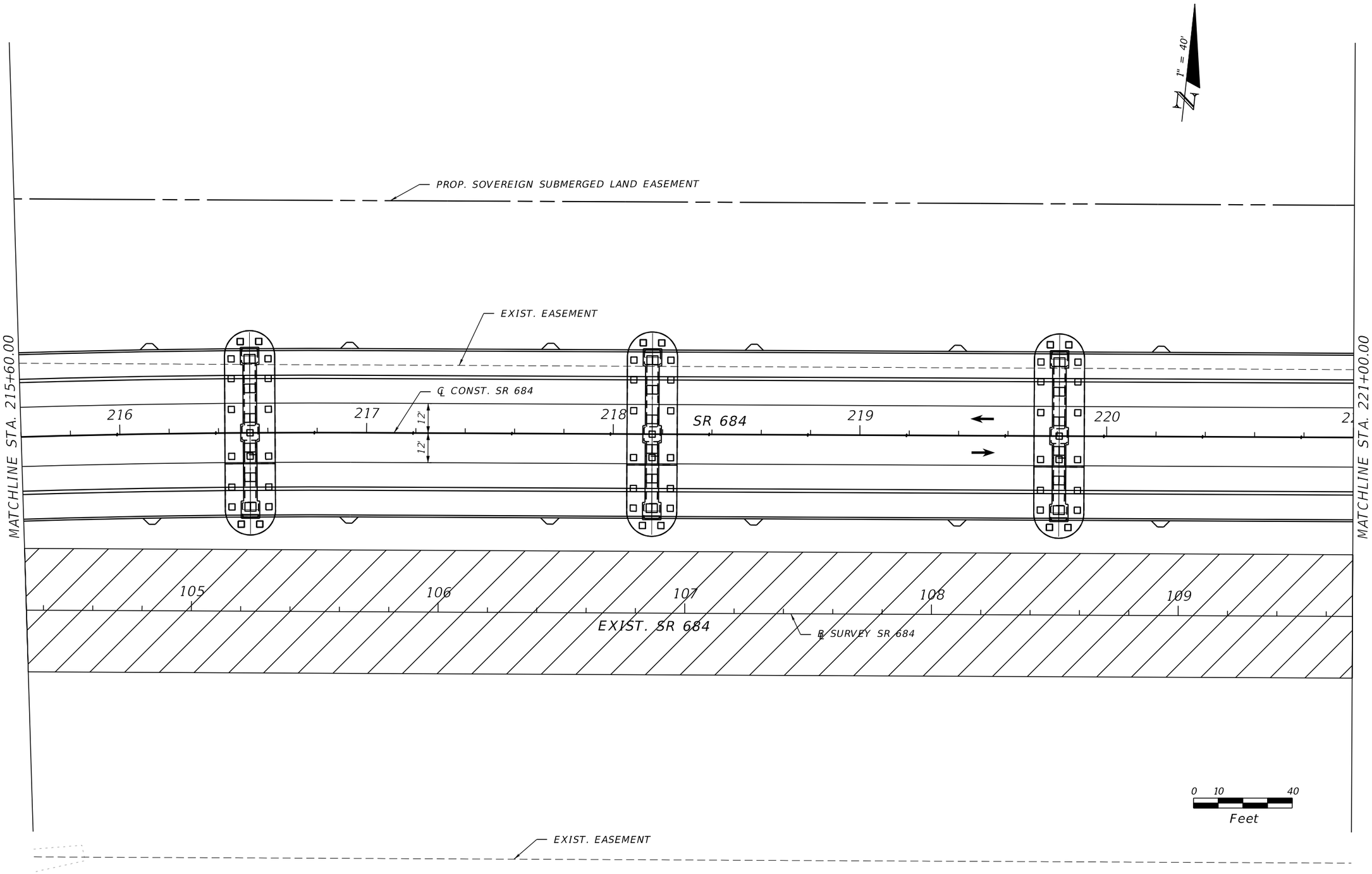
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 3

SHEET NO. 191

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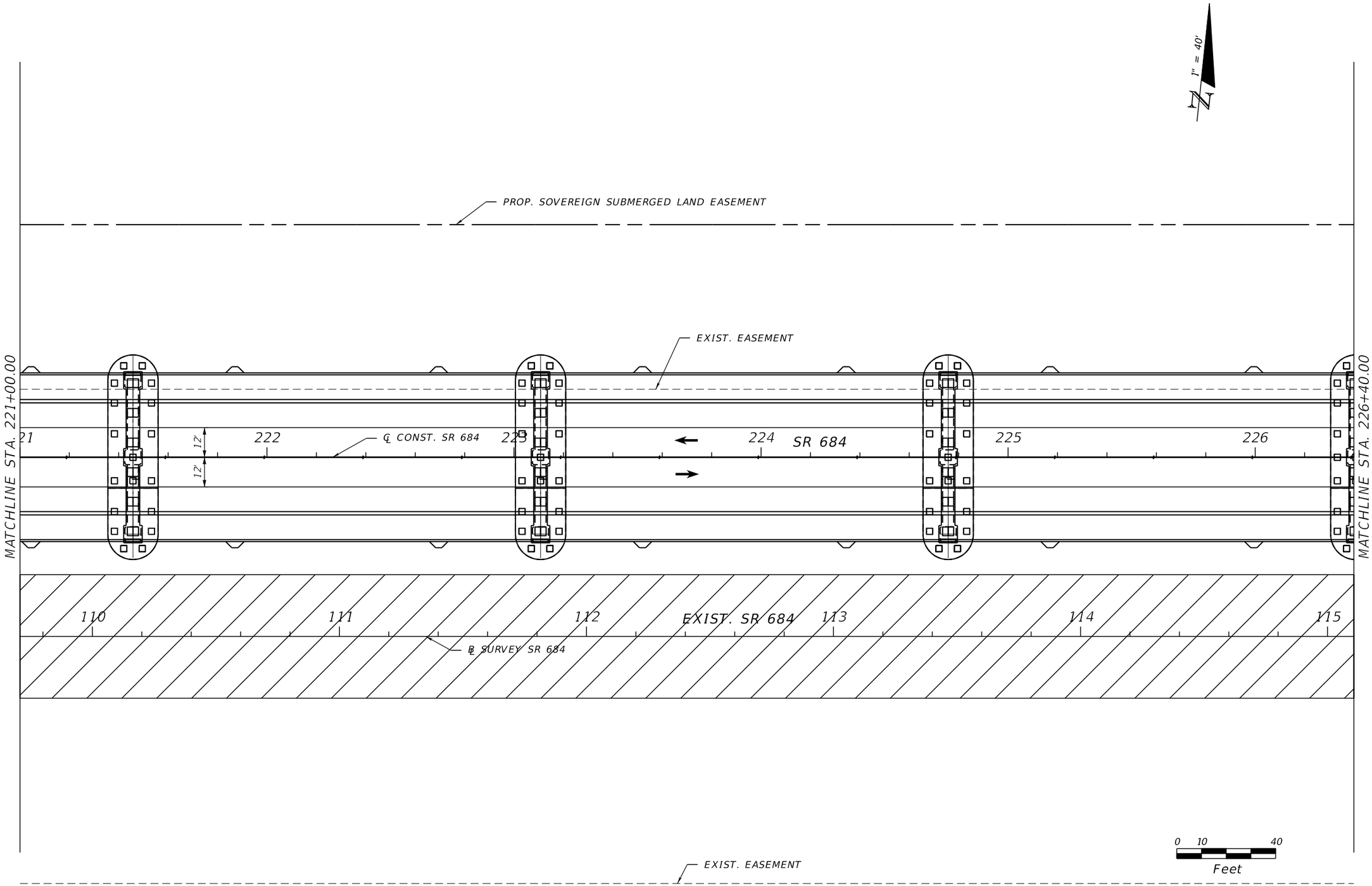
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 3

SHEET NO. 192

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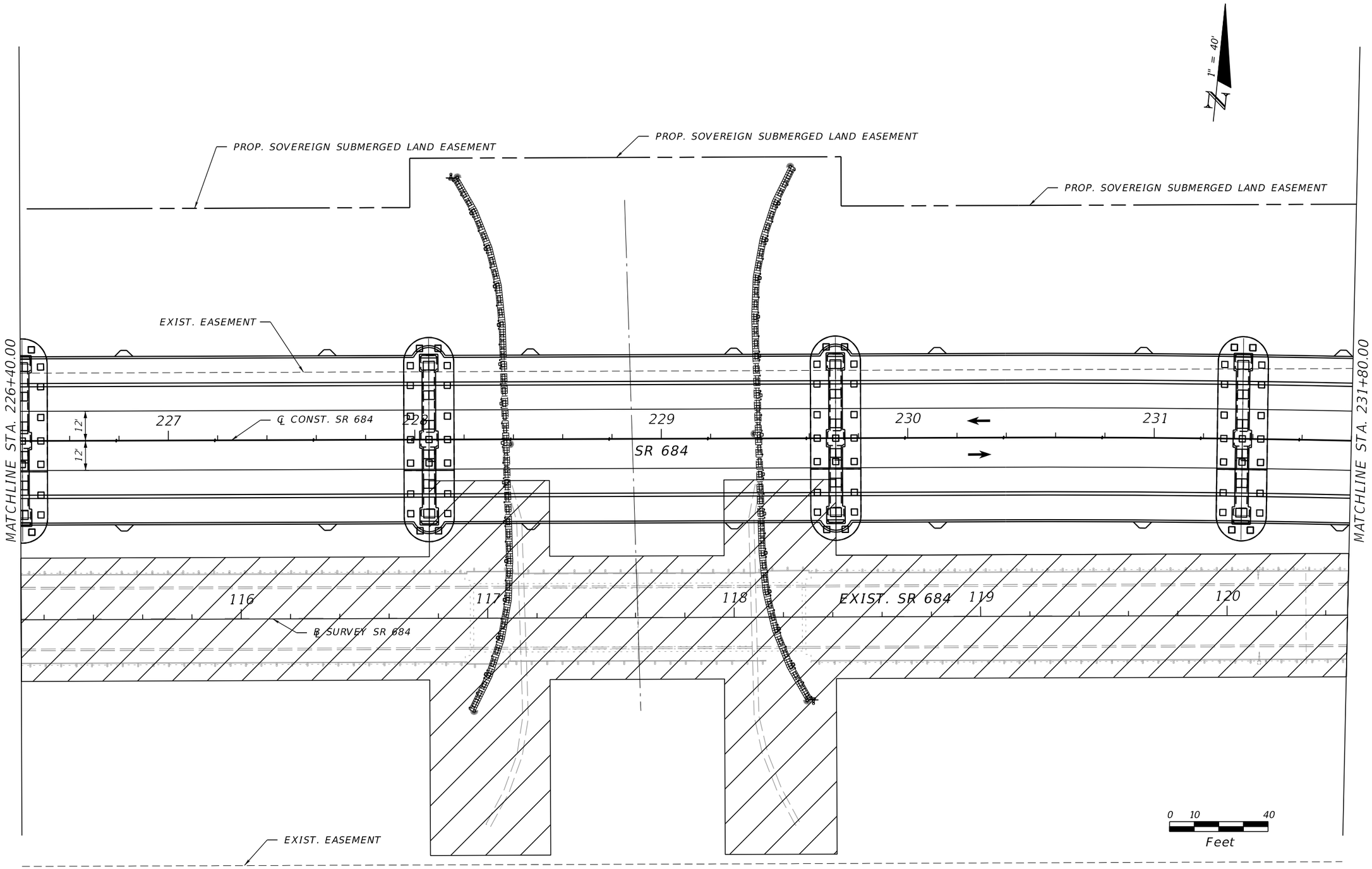
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 3

SHEET NO.
193

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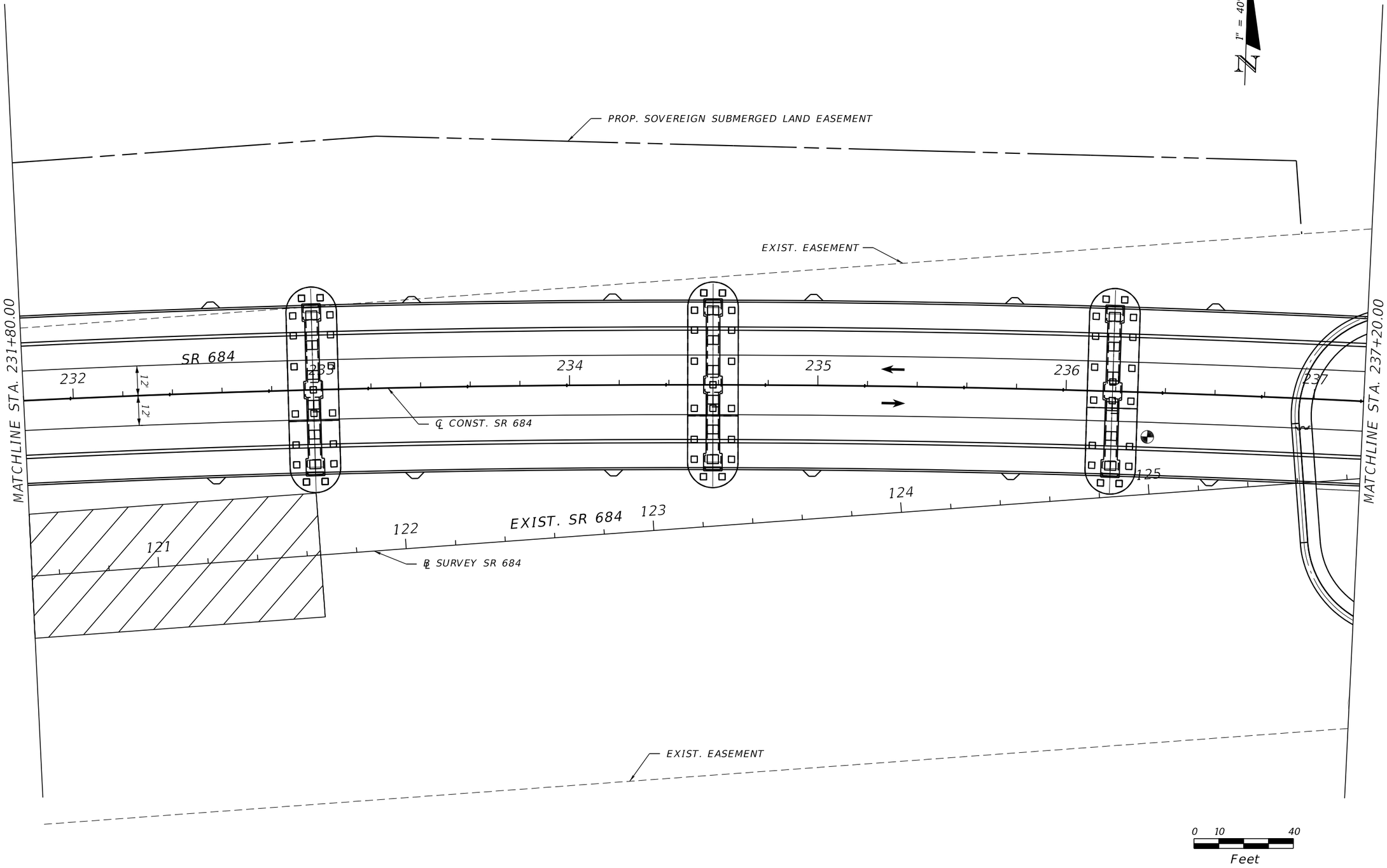
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 3

SHEET NO. 194

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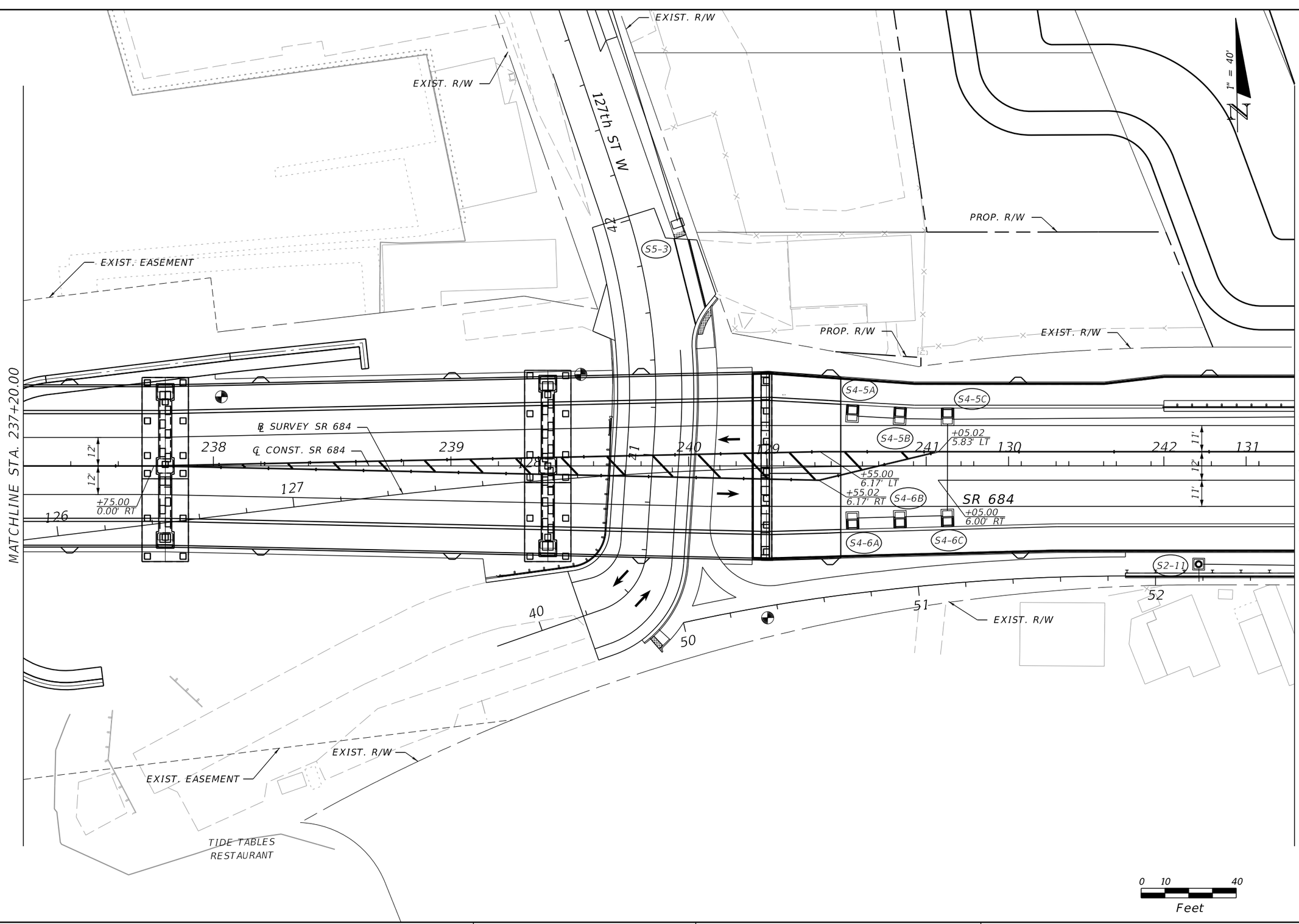
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 3

SHEET NO. 195

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 3

SHEET NO. 196

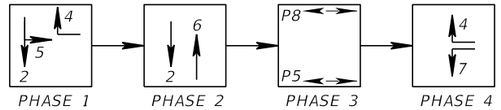
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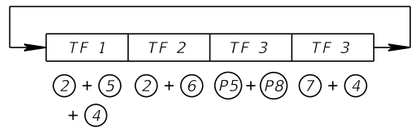
PHASE III - SEQUENCE OF CONSTRUCTION

1. EXISTING TRAFFIC CONTROLLER ASSEMBLY, SIGNAL HEADS AND OTHER EQUIPMENT SHALL BE PROTECTED AND UTILIZED.
2. APPLY TEMPORARY DETECTION ZONES.
3. RECONTRUCT TEMPORARY DETOUR FOR PEDESTRIANS TO P5 AND P8 ACROSS GULF DRIVE.
4. ADJUST TIMINGS AND UPDATE CONTROLLER IN CABINET.
5. REOPEN P5 AND P8 FOR USE REUSING EQUIPMENT AND CONDUIT FROM PHASES 1B-1, 1B-2, AND II.
6. CLOSE P4 AND P6.

NOTE: PHASE 3 TO OPERATE ON PED ACTUATION ONLY

SPECIAL S.O.P.



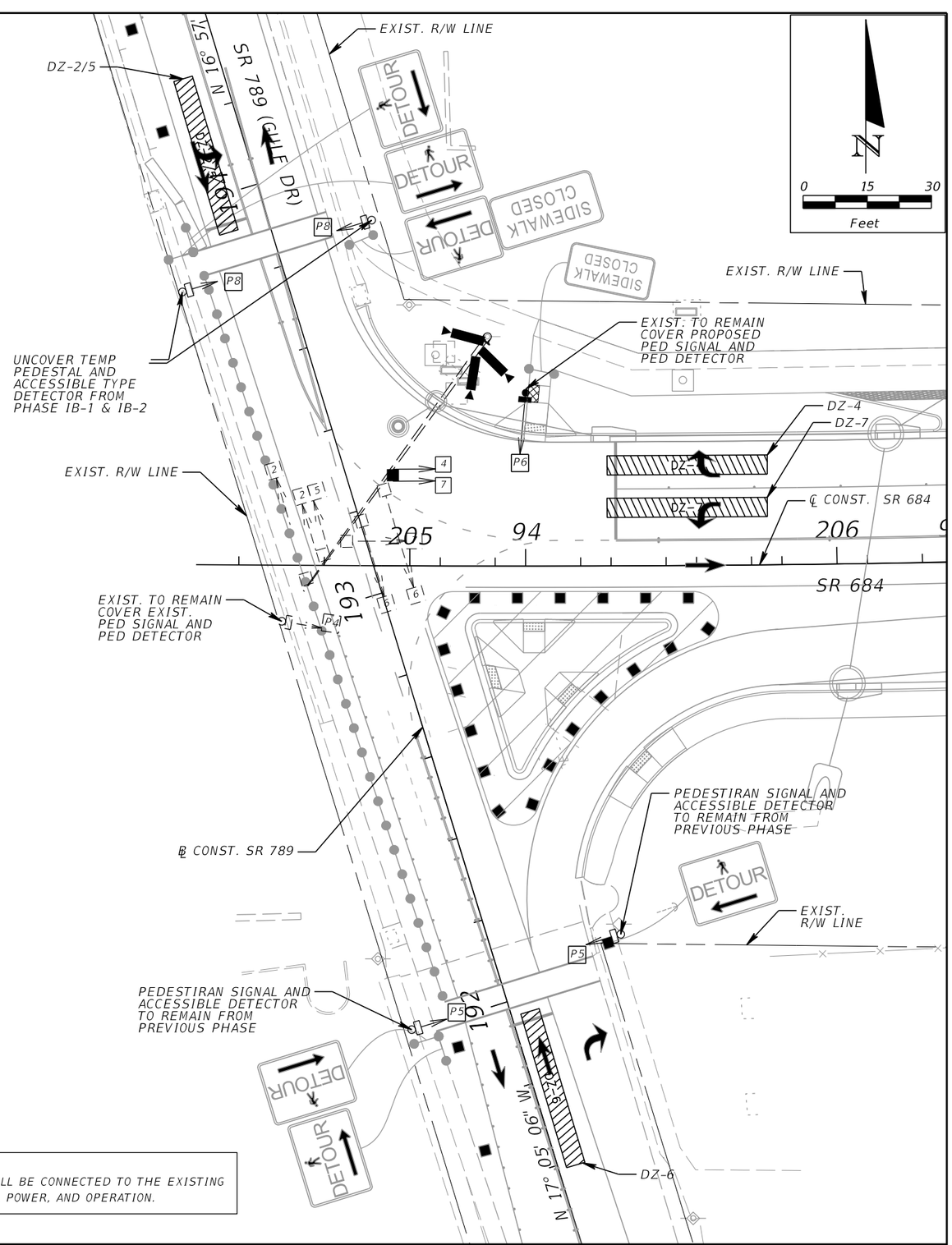


LEGEND

- EXIST. TRAFFIC SIGNAL
- EXIST. PEDESTRIAN SIGNAL
- TEMPORARY PROPOSED PEDESTRIAN SIGNAL
- PROPOSED MICROWAVE DETECTION FROM FINAL DESIGN

* PREEMPTION TIMINGS TO BE REMOVED									
Controller Timings									
Movement # (Controller Phase Ø)	1	2	3	4	5	6	7	8	Notes
Direction		SB		WB		NB			
Turn Type									
Min Green									
Ext									
Yellow		4.0		4.0	4.0	4.0			
All Red		4.2		3.5	2.4	3.8			
Max I									
Max II									
Max Limit									
Adjust By									
Walk					7.0			7.0	
Flashing Don't Walk					9.0			7.0	
Detector Memory									
Det. Cross Switch.									
Dual Entry									
Recall									

SR 789 (GULF BLVD) POSTED SPEED 35 MPH
SR 684 (CORTEZ RD) POSTED SPEED 35 MPH



NOTES:
1. PEDESTRIAN SIGNALS SHALL BE CONNECTED TO THE EXISTING CONTROLLER FOR DETECTION, POWER, AND OPERATION.

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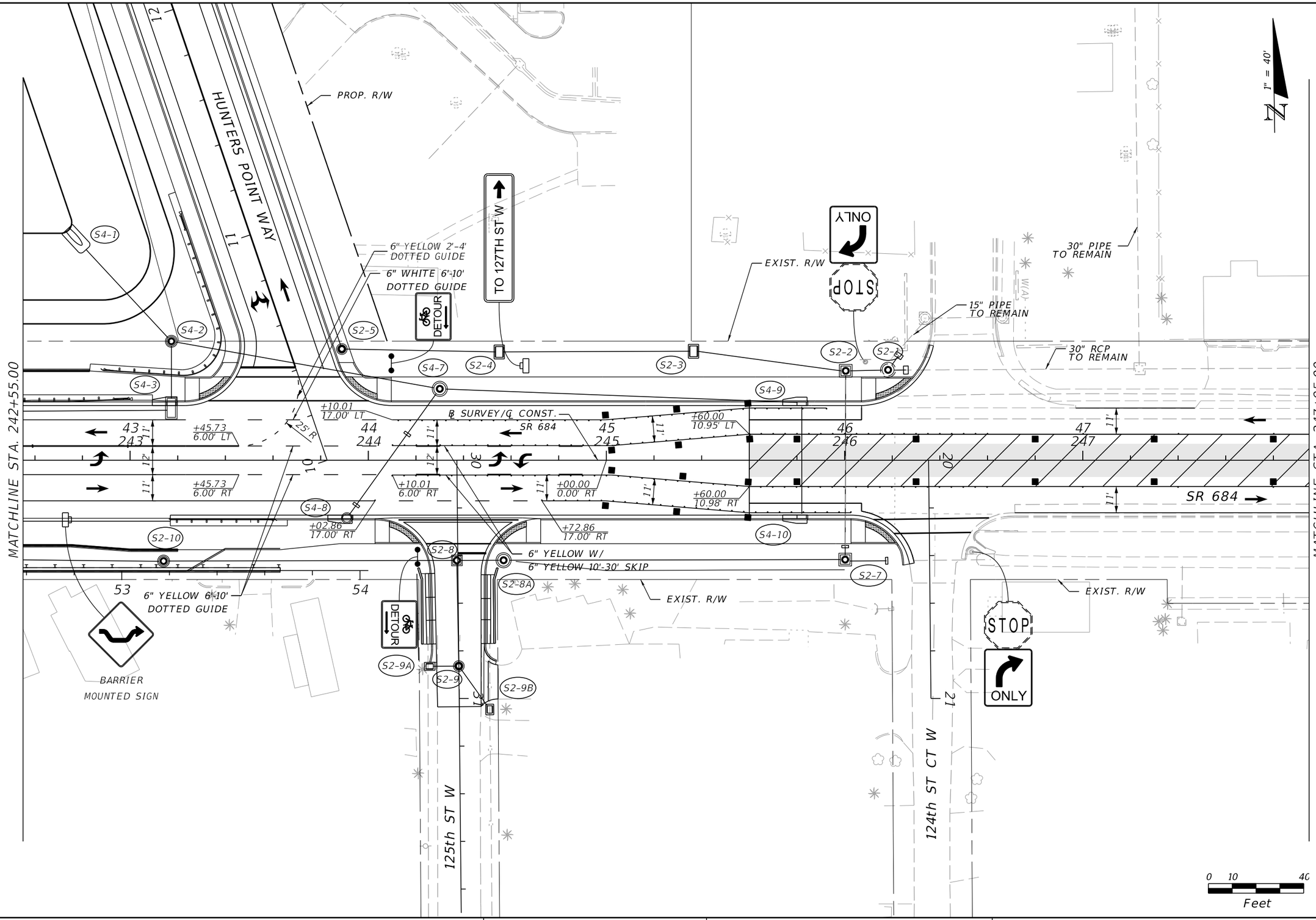
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS TEMPORARY SIGNALIZATION

SHEET NO. 197

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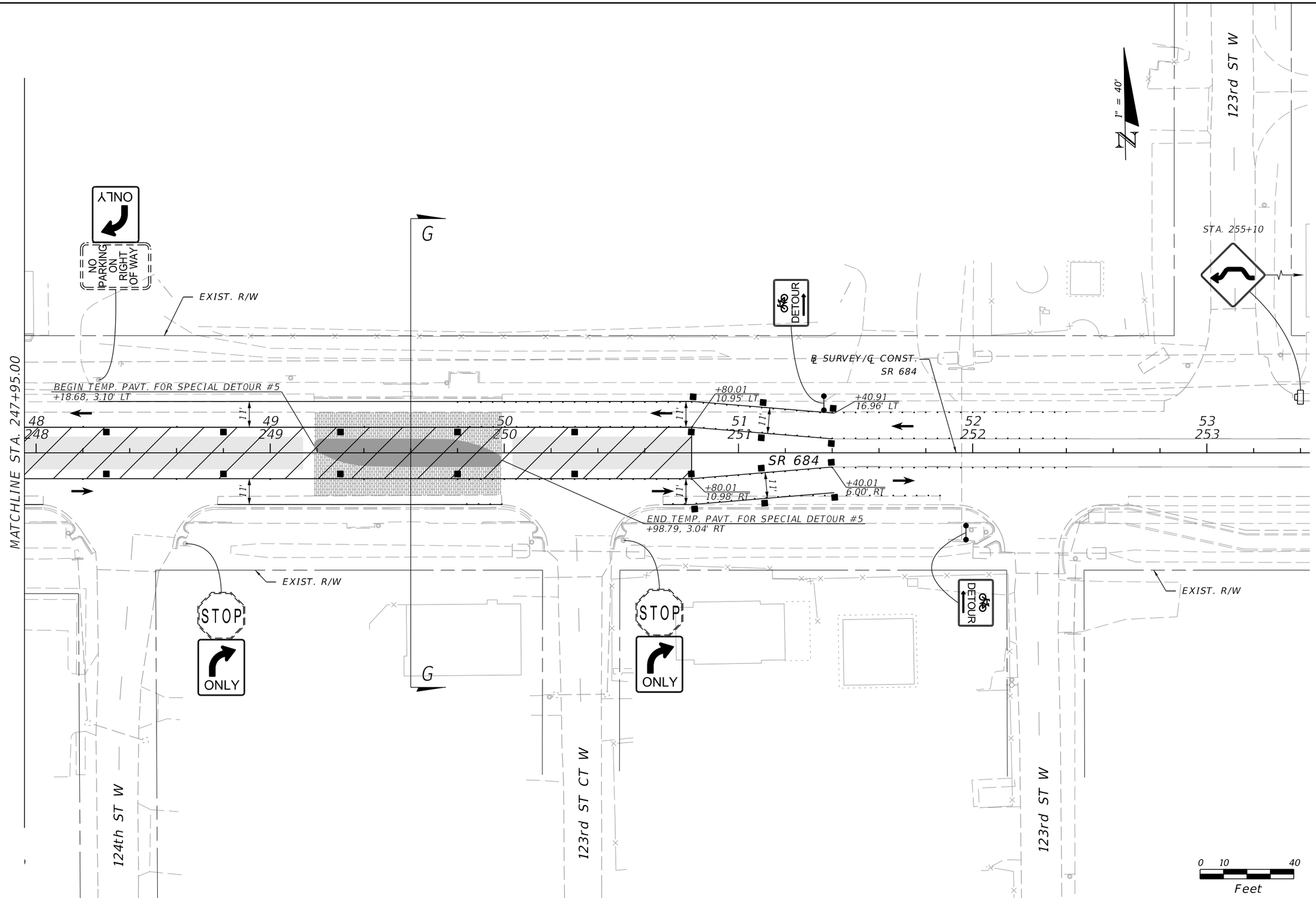
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 3 - STAGE 1

SHEET NO. 198



REVISIONS			
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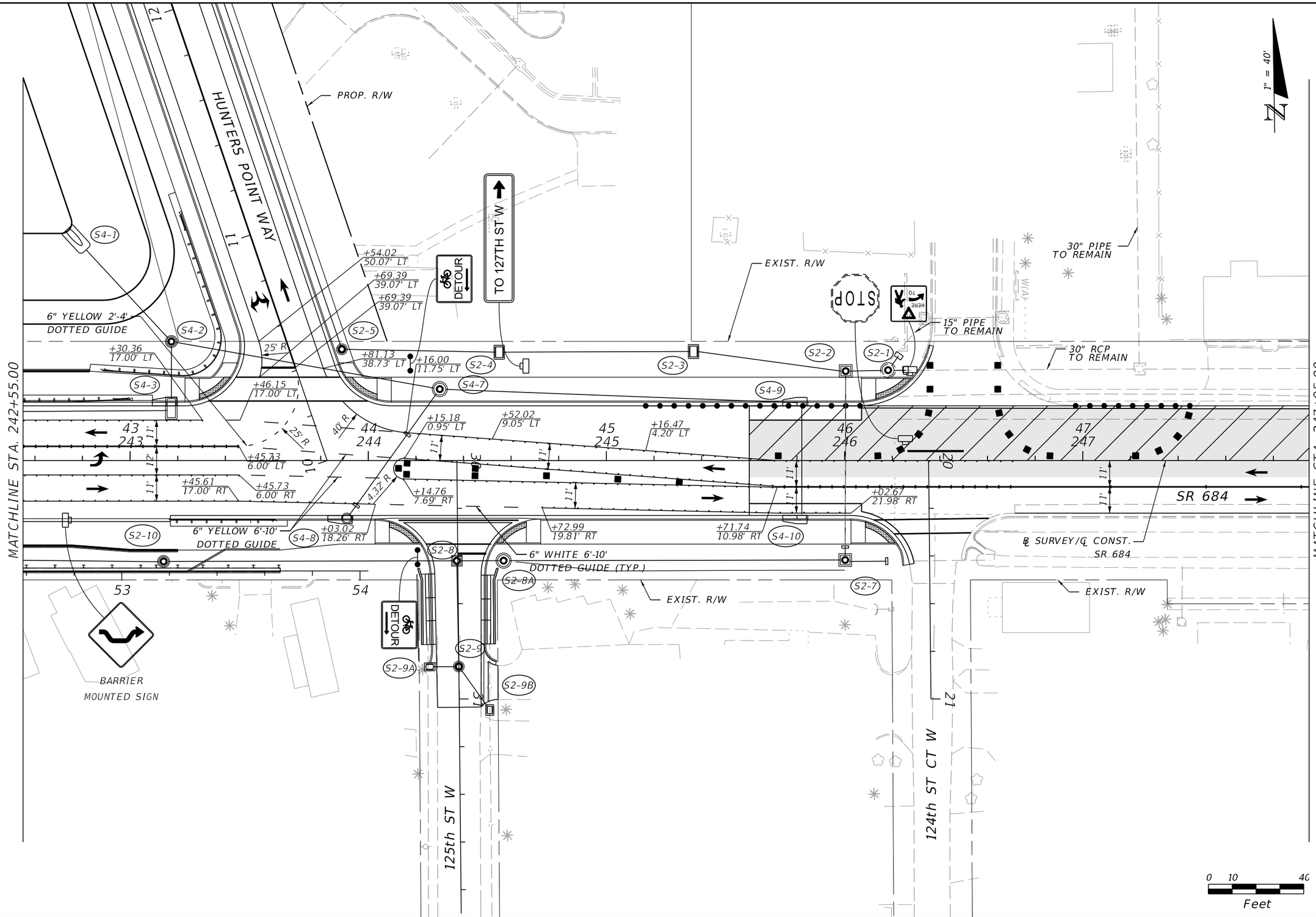
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 3 - STAGE 1

SHEET NO. 199

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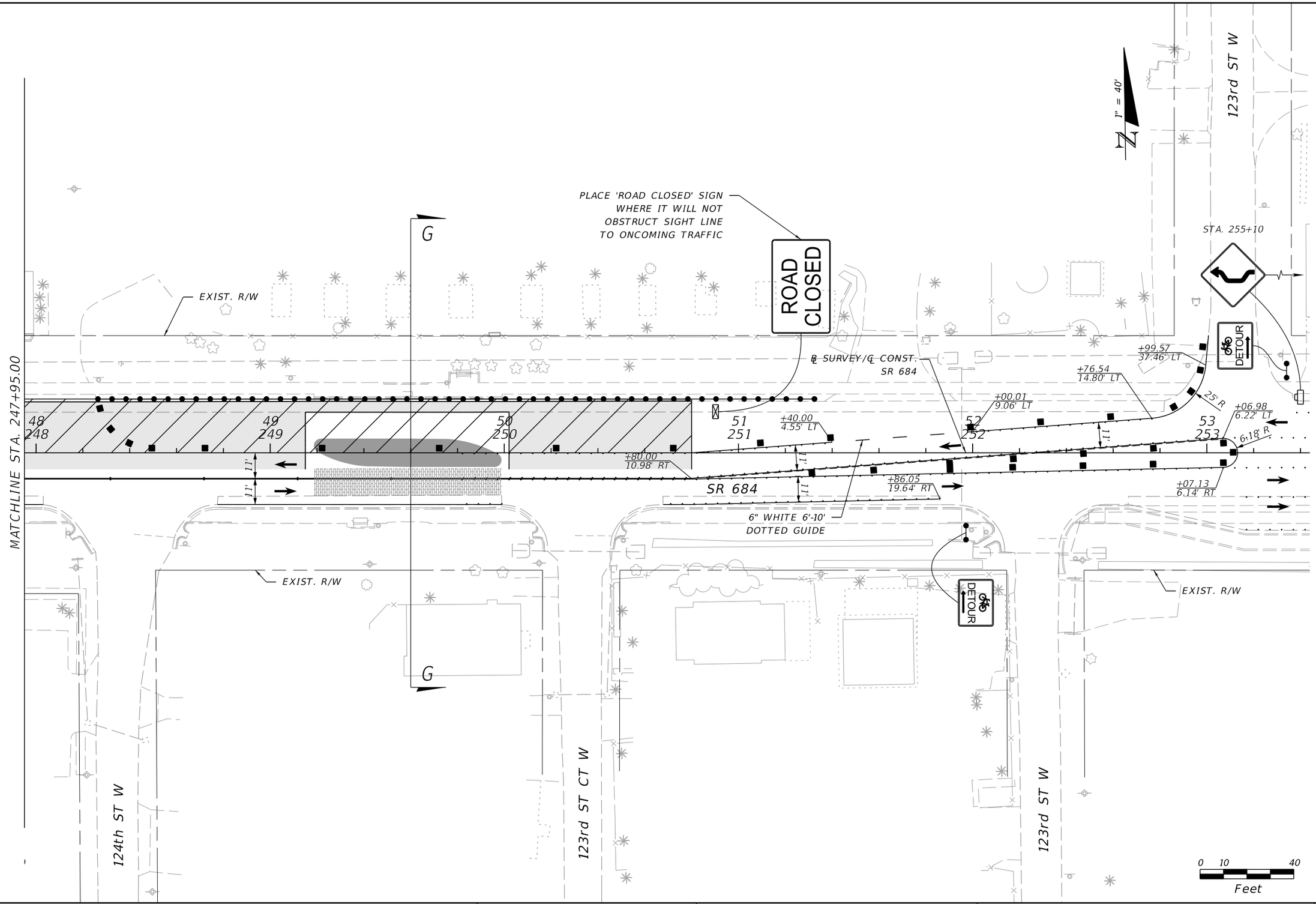
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 3 - STAGE 2

SHEET NO. 200

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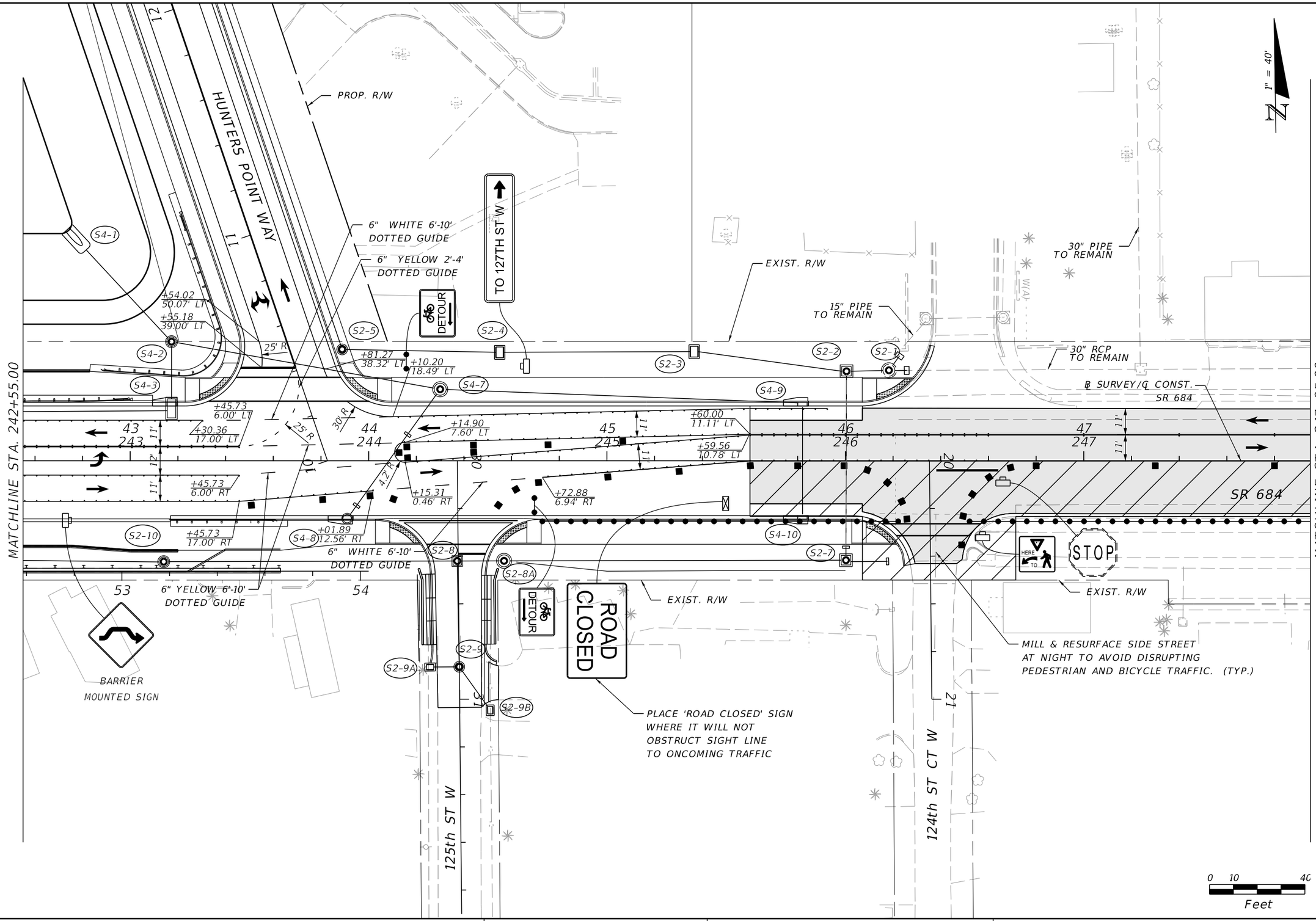
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 3 - STAGE 2

SHEET NO. 201

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DATE	DESCRIPTION	DATE	DESCRIPTION

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4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

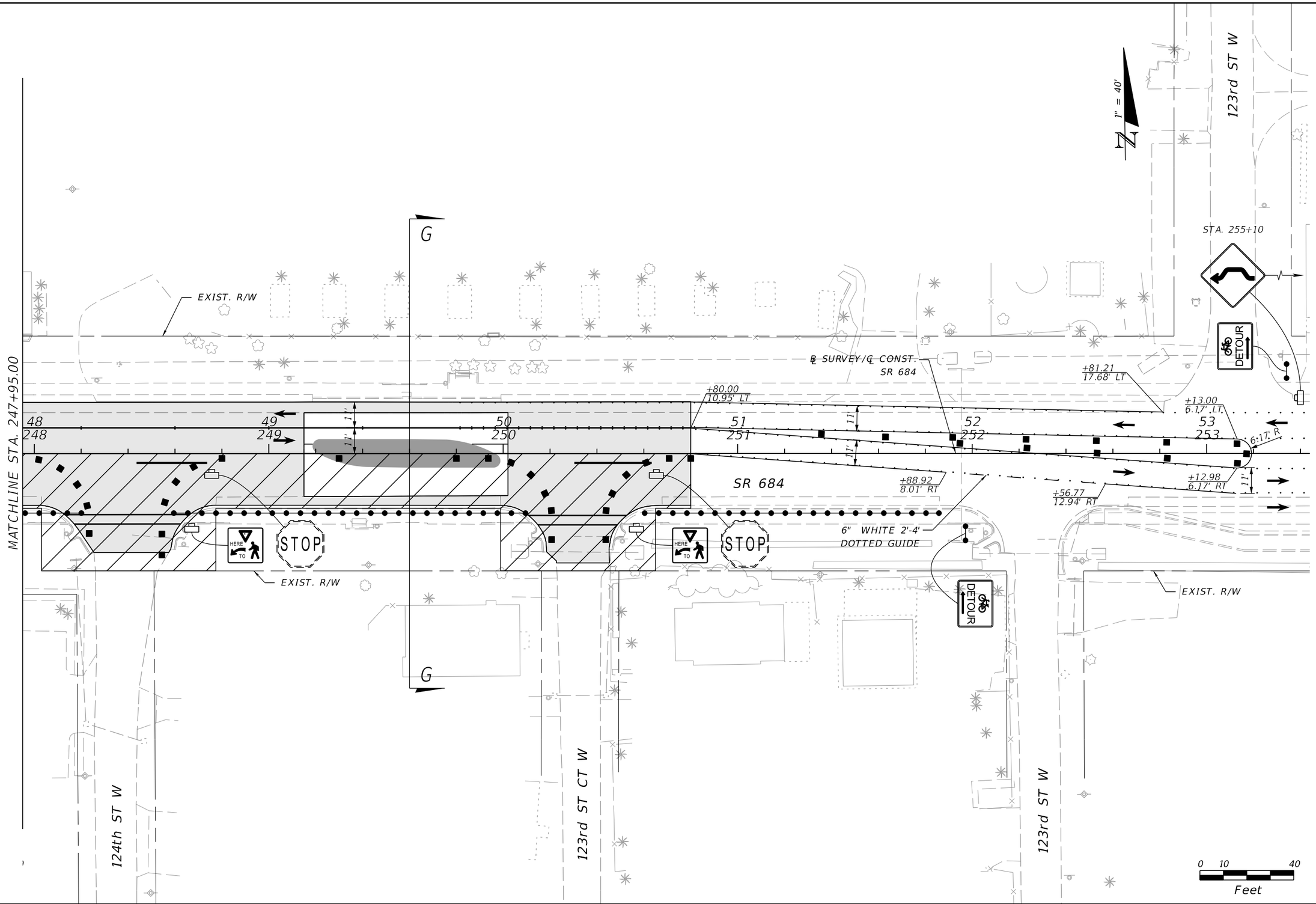
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 3 - STAGE 3

SHEET NO. 202

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

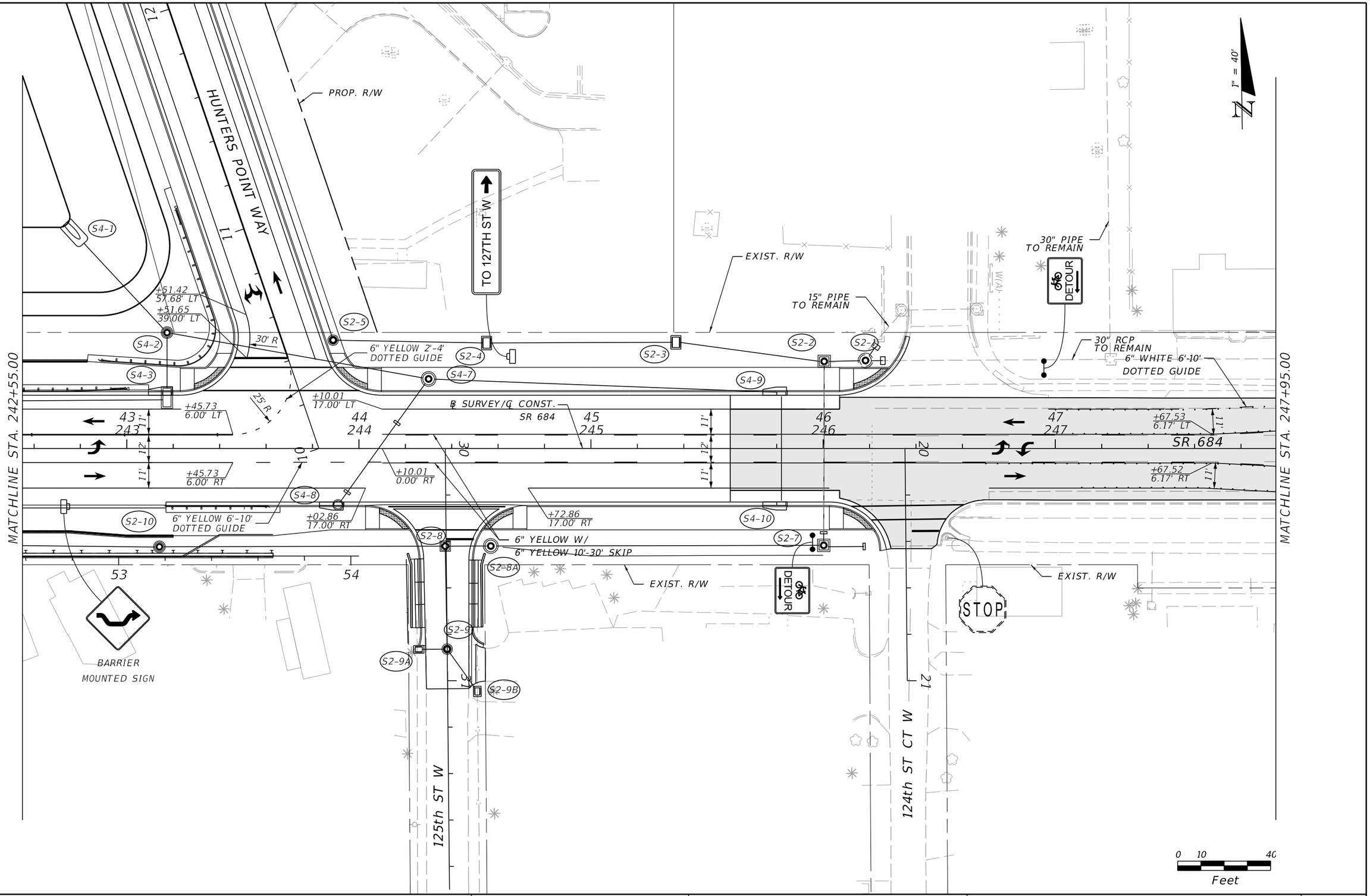
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 3 - STAGE 3

SHEET NO. 203

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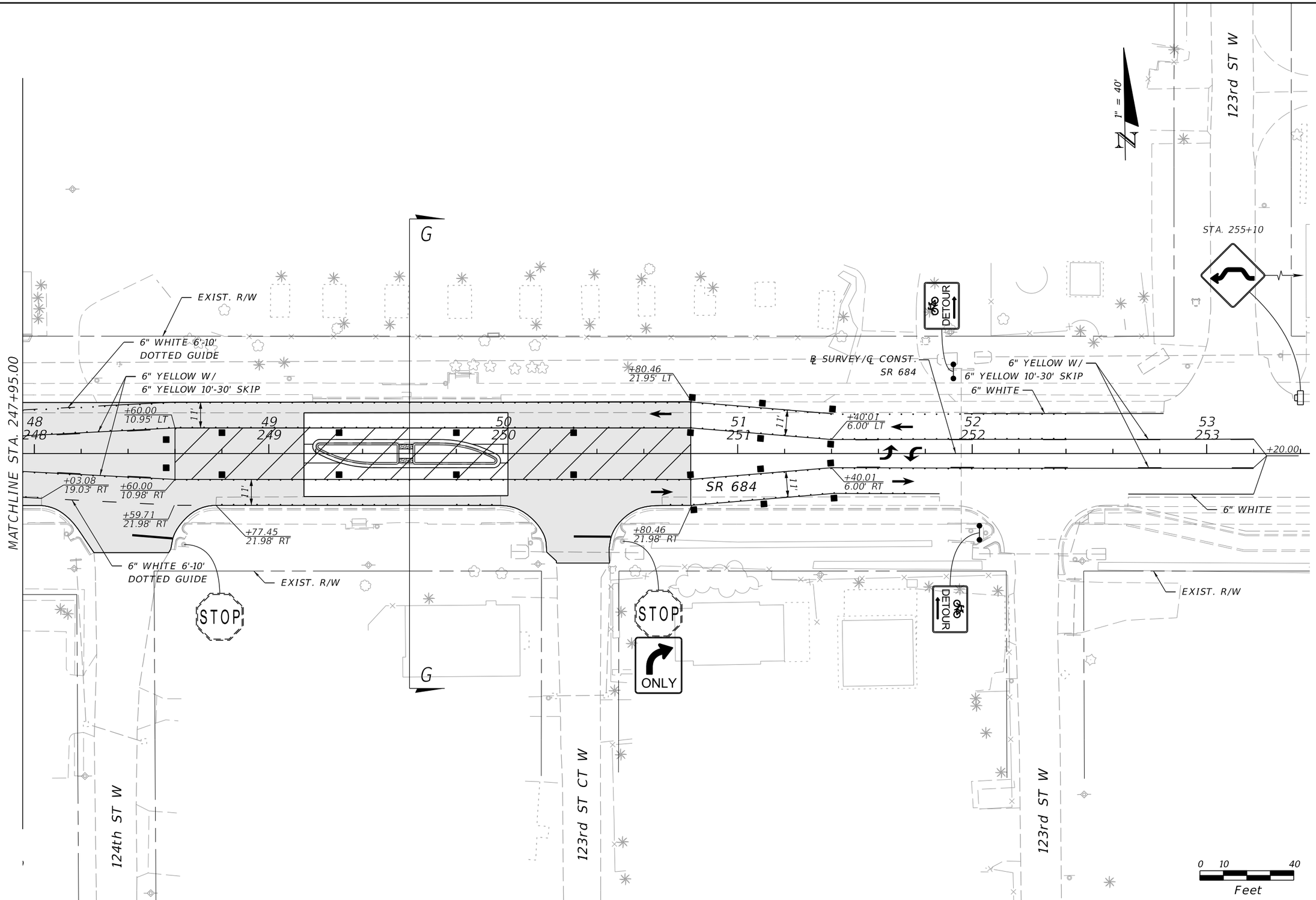
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 3 - STAGE 4

SHEET NO. 204

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

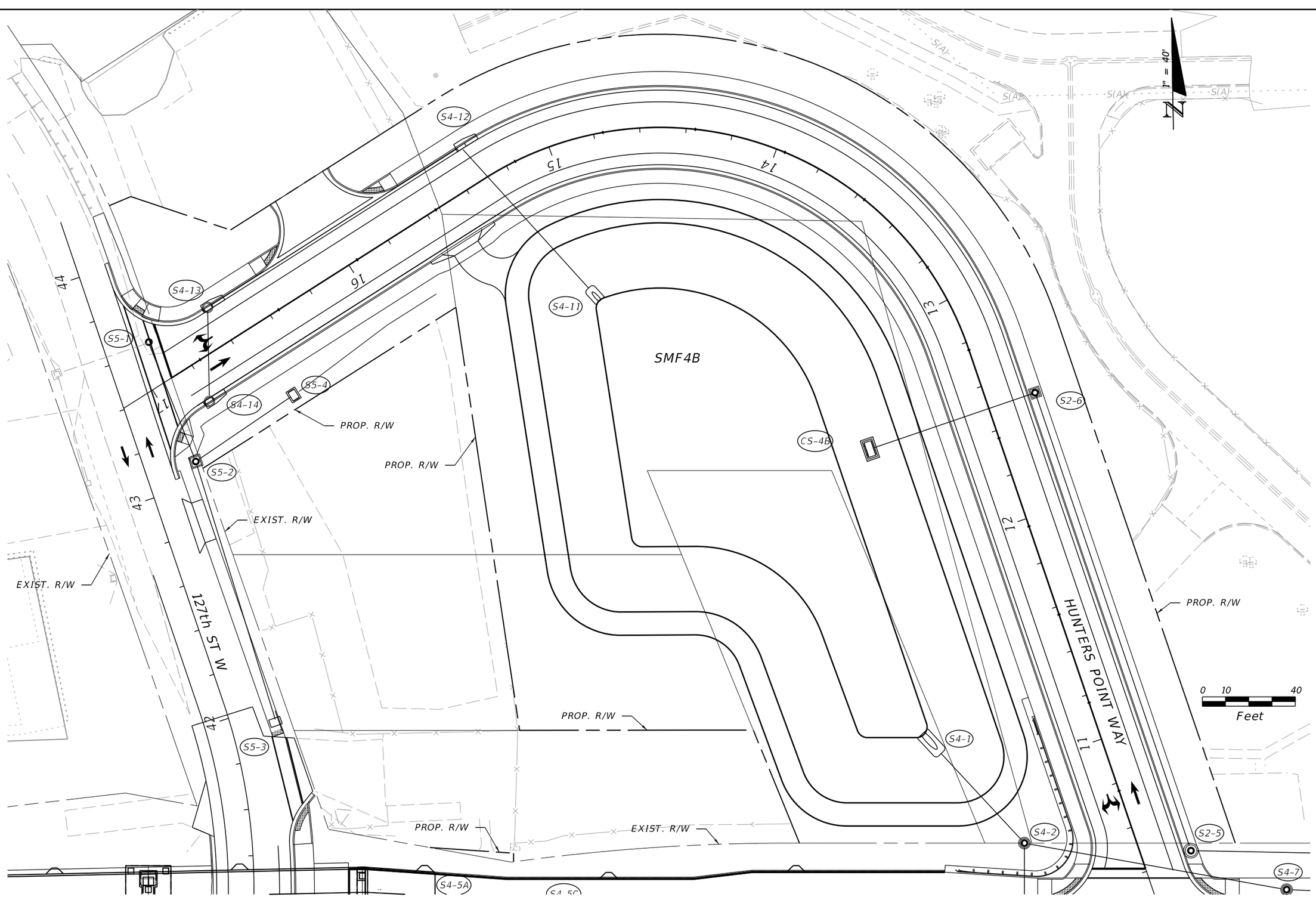
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
SR 684 PHASE 3 - STAGE 4

SHEET NO. 205

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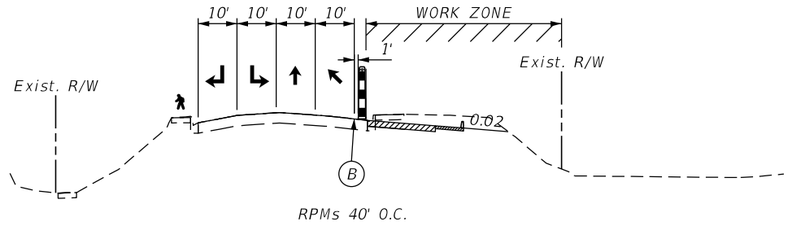
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

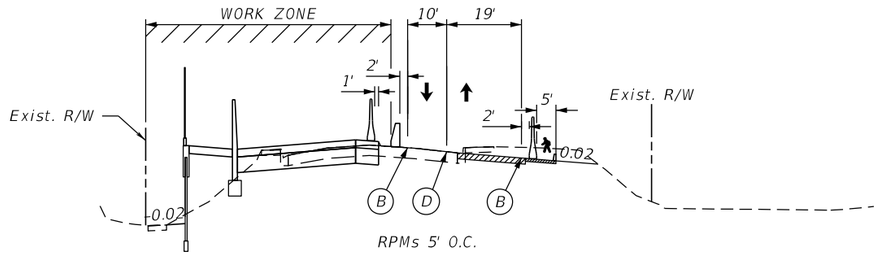
TRAFFIC CONTROL PLANS
HUNTERS POINT W PHASE 3

SHEET NO. 206



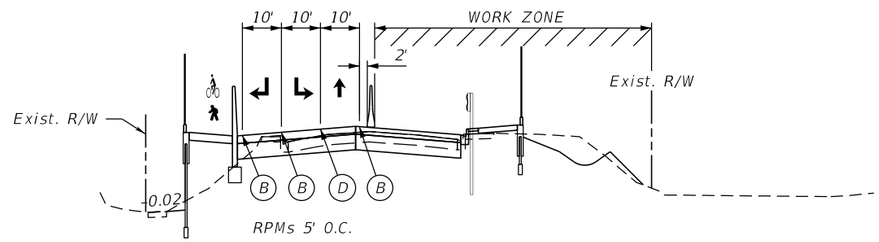
RPMs 40' O.C.

PHASE 1A



RPMs 5' O.C.

PHASE 1B



RPMs 5' O.C.

PHASE 2

PROP. PAVEMENT STRIPING LEGEND

- (A) 6" WHITE
- (B) 6" WHITE w/ W/R RPMs
- (C) 6" YELLOW
- (D) 6" DBL. YELLOW w/ Y/Y RPMs
- (E) 6" WHITE (10'-30' SKIP) w/ W/R RPMs
- (F) 6" YELLOW (10'-30' SKIP) w/ Y/Y RPMs

LEGEND

- TYPE II BARRICADES
- TEMPORARY BARRIER
- LOW PROFILE BARRIER
- TEMPORARY ASPHALT CONCRETE CURB
- TEMPORARY PAVEMENT
- TEMPORARY 2" MISC. ASPH. PAVEMENT

SR 684
SECTION A-A - STA. 208+00.00

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

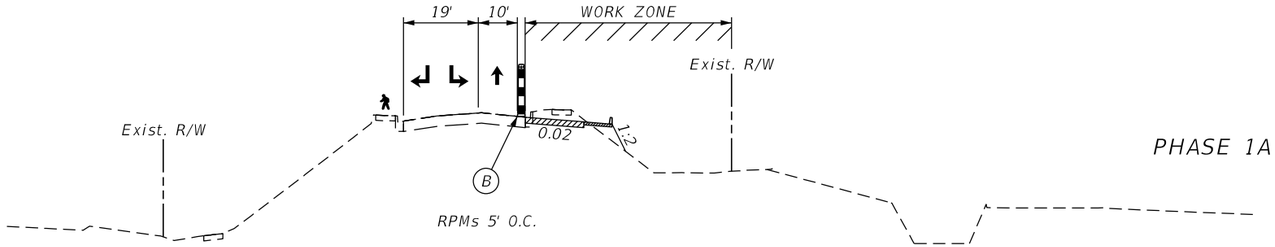
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

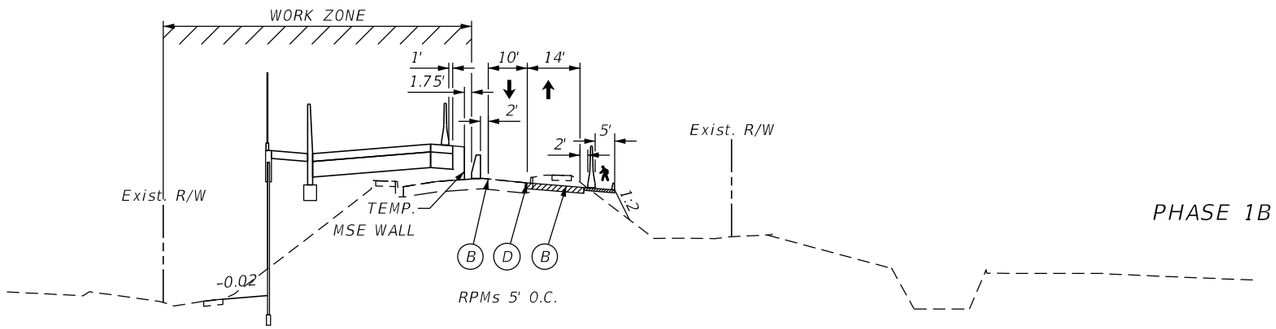
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
CRITICAL SECTIONS

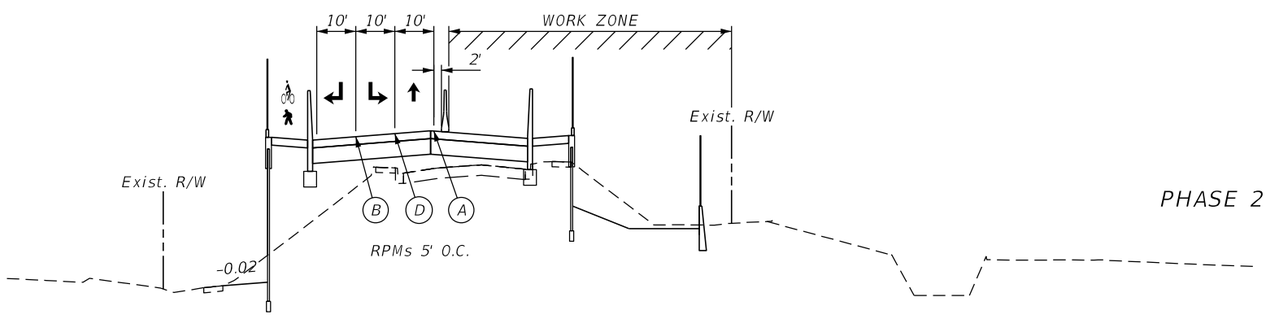
SHEET NO. 207



PHASE 1A



PHASE 1B



PHASE 2

PROP. PAVEMENT STRIPING LEGEND

- (A) 6" WHITE
- (B) 6" WHITE w/ W/R RPMs
- (C) 6" YELLOW
- (D) 6" DBL. YELLOW w/ Y/Y RPMs
- (E) 6" WHITE (10'-30' SKIP) w/ W/R RPMs
- (F) 6" YELLOW (10'-30' SKIP) w/ Y/Y RPMs

LEGEND

- TYPE II BARRICADES
- TEMPORARY BARRIER
- LOW PROFILE BARRIER
- TEMPORARY ASPHALT CONCRETE CURB
- TEMPORARY PAVEMENT
- TEMPORARY 2" MISC. ASPH. PAVEMENT

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SR 684
SECTION B-B - STA. 209+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

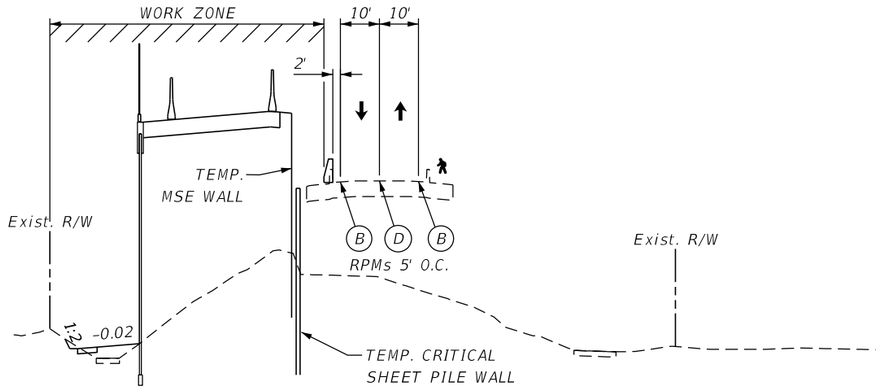
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

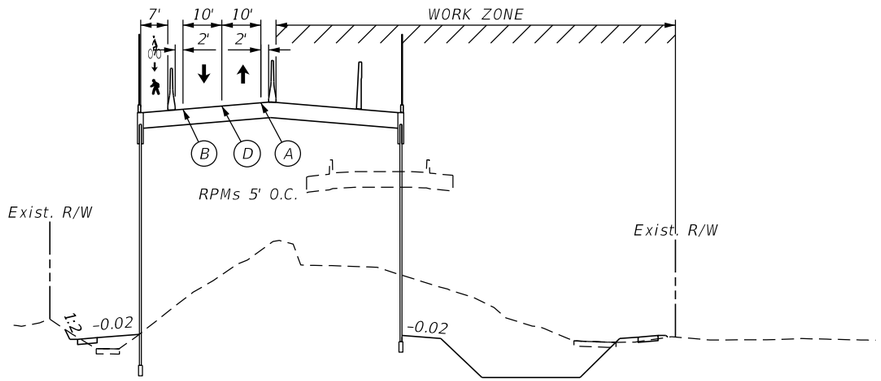
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS CRITICAL SECTIONS

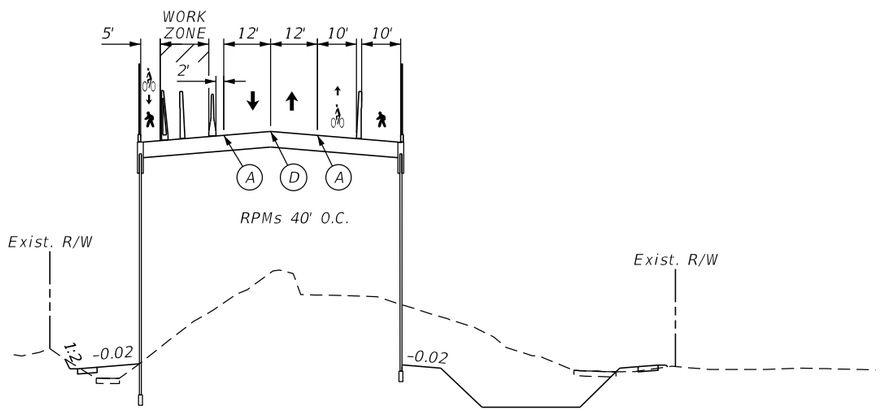
SHEET NO. 208



PHASE 1B



PHASE 2



PHASE 3

PROP. PAVEMENT STRIPING LEGEND

- (A) 6" WHITE
- (B) 6" WHITE w/ W/R RPMs
- (C) 6" YELLOW
- (D) 6" DBL. YELLOW w/ Y/Y RPMs
- (E) 6" WHITE (10'-30' SKIP) w/ W/R RPMs
- (F) 6" YELLOW (10'-30' SKIP) w/ Y/Y RPMs

LEGEND

- TYPE II BARRICADES
- TEMPORARY BARRIER
- LOW PROFILE BARRIER
- PEDESTRIAN LCD

SR 684
SECTION C-C - STA. 211+03.50

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

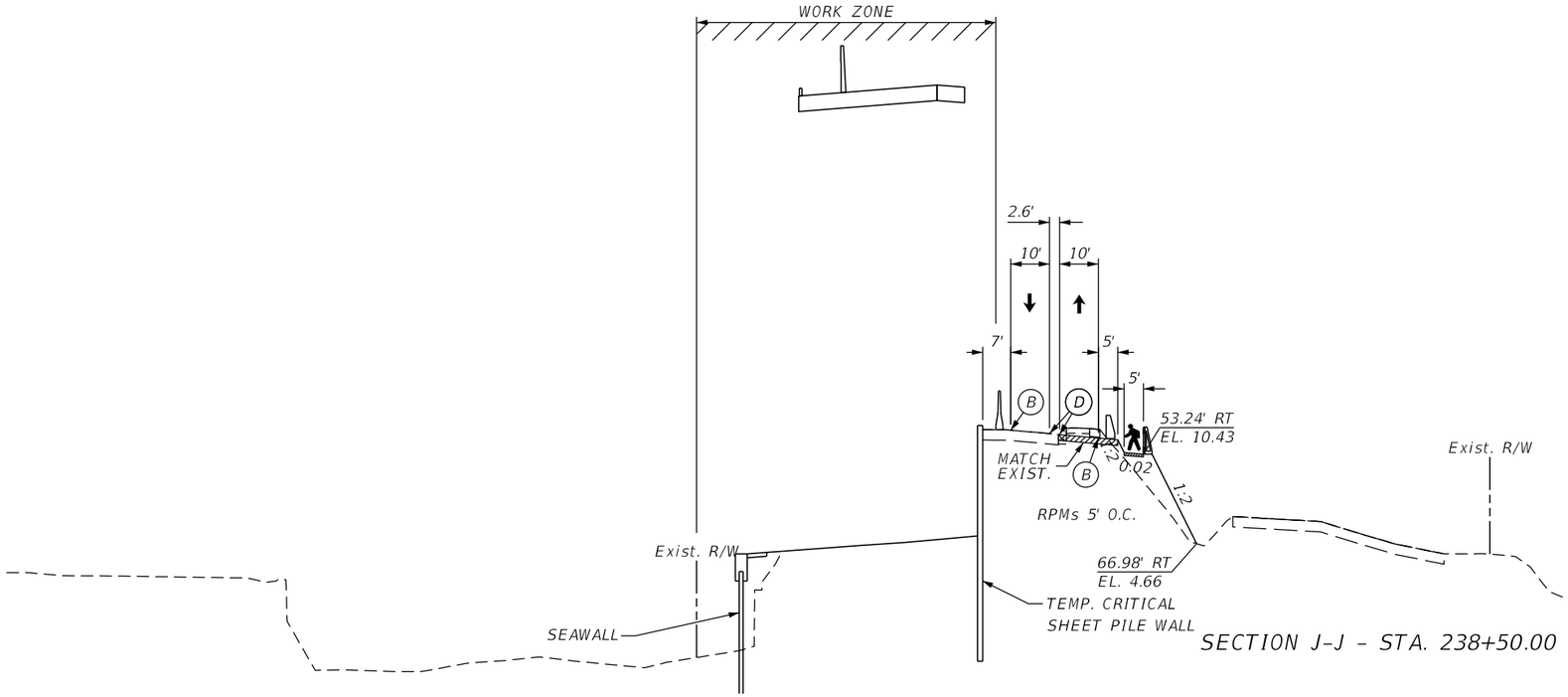
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

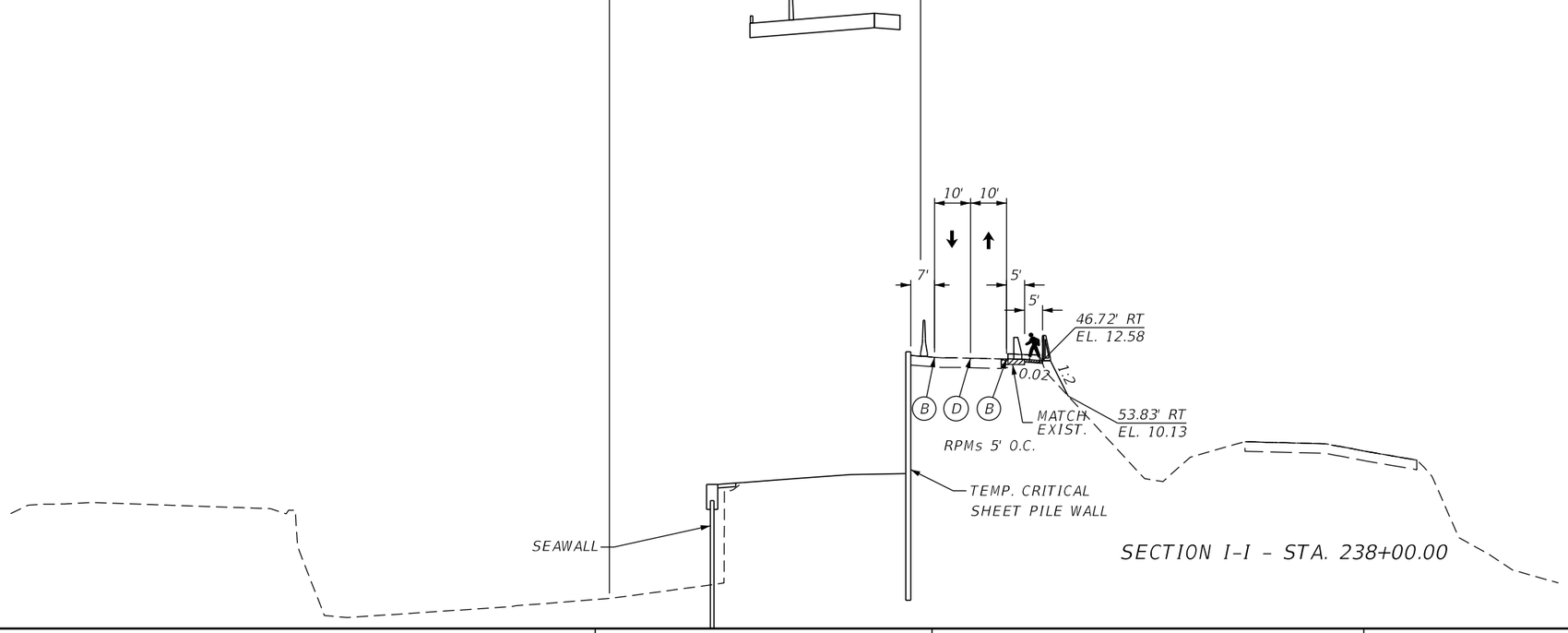
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS CRITICAL SECTIONS

SHEET NO. 209



SECTION J-J – STA. 238+50.00



SECTION I-I – STA. 238+00.00

PROP. PAVEMENT STRIPING LEGEND

- (A) 6" WHITE
- (B) 6" WHITE w/ W/R RPMs
- (C) 6" YELLOW
- (D) 6" DBL. YELLOW w/ Y/Y RPMs
- (E) 6" WHITE (10'-30' SKIP) w/ W/R RPMs
- (F) 6" YELLOW (10'-30' SKIP) w/ Y/Y RPMs

LEGEND

- TYPE II BARRICADES
- TEMPORARY BARRIER
- LOW PROFILE BARRIER
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- TEMPORARY PAVEMENT
- TEMPORARY 2" MISC. ASPH. PAVEMENT

SR 684 PHASE 1B-1
SECTION I-I – STA. 238+00.00
SECTION J-J – STA. 238+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

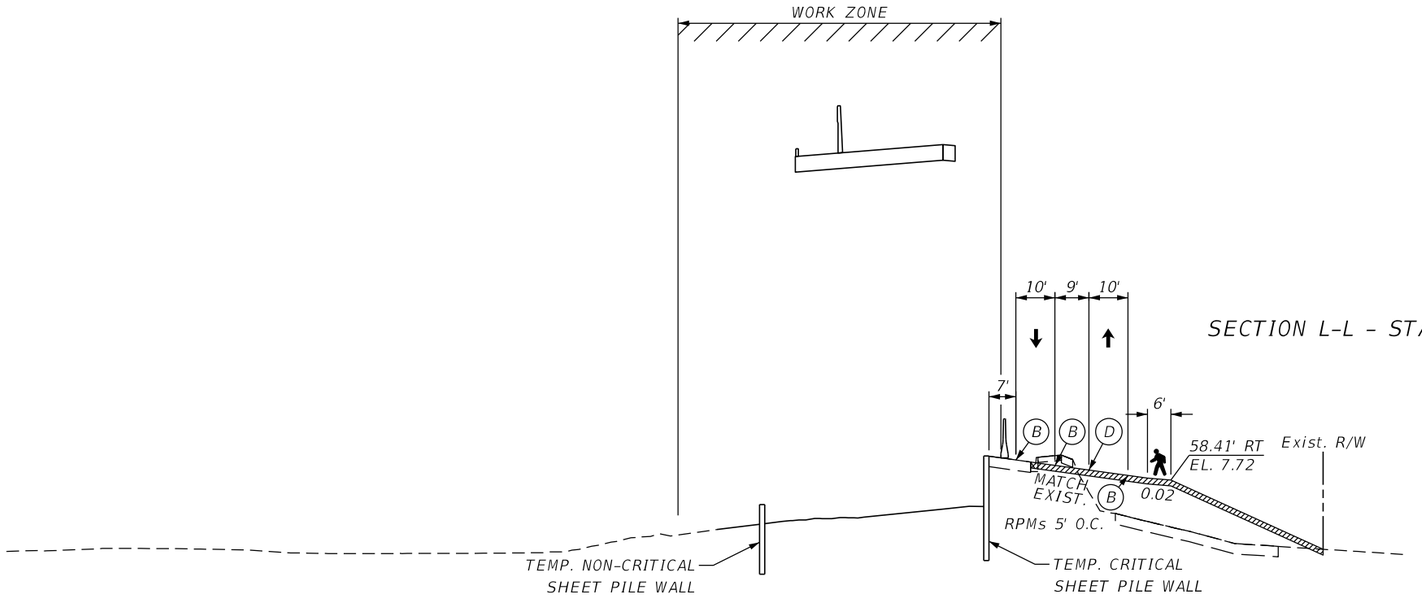
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

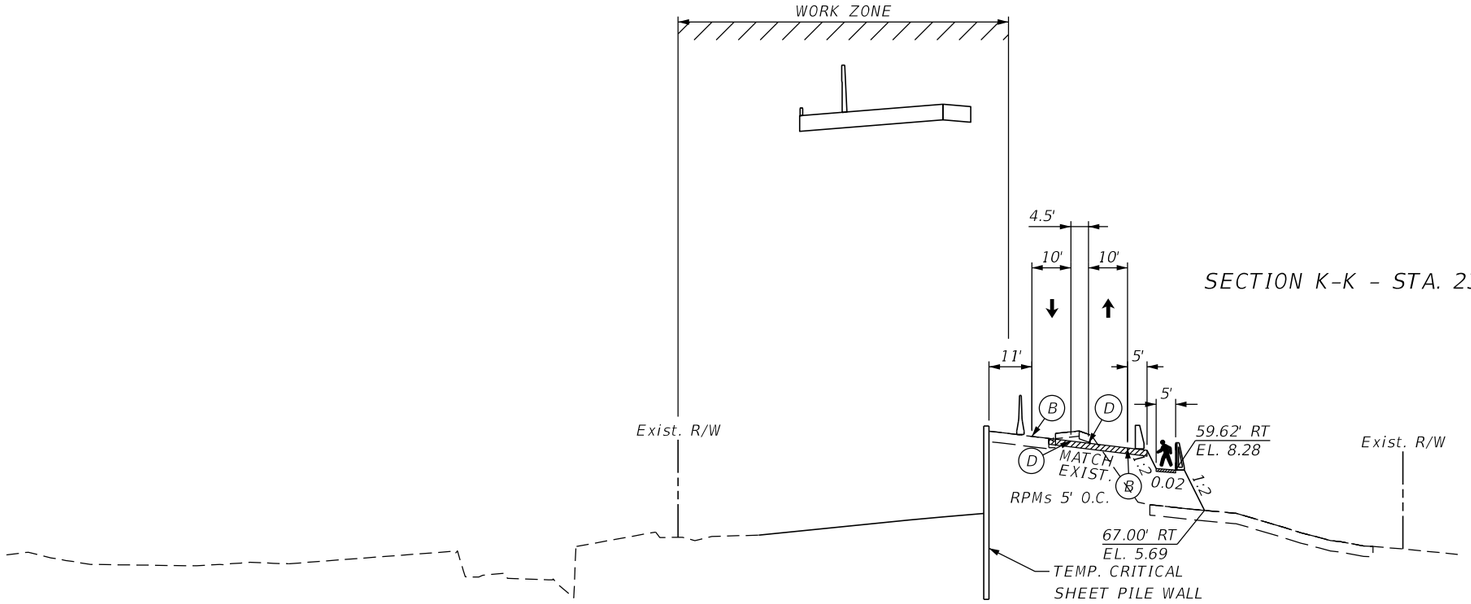
TRAFFIC CONTROL PLANS
CRITICAL SECTIONS

SHEET NO. 210

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SECTION L-L - STA. 239+50.00



SECTION K-K - STA. 239+00.00

PROP. PAVEMENT STRIPING LEGEND

- (A) 6" WHITE
- (B) 6" WHITE w/ W/R RPMs
- (C) 6" YELLOW
- (D) 6" DBL. YELLOW w/ Y/Y RPMs
- (E) 6" WHITE (10'-30' SKIP) w/ W/R RPMs
- (F) 6" YELLOW (10'-30' SKIP) w/ Y/Y RPMs

LEGEND

- TYPE II BARRICADES
- TEMPORARY BARRIER
- LOW PROFILE BARRIER
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE
- TEMPORARY PAVEMENT
- TEMPORARY 2" MISC. ASPH. PAVEMENT

SR 684 PHASE 1B-1
SECTION K-K - STA. 239+00.00
SECTION L-L - STA. 239+50.00

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DATE	DESCRIPTION	DATE	DESCRIPTION

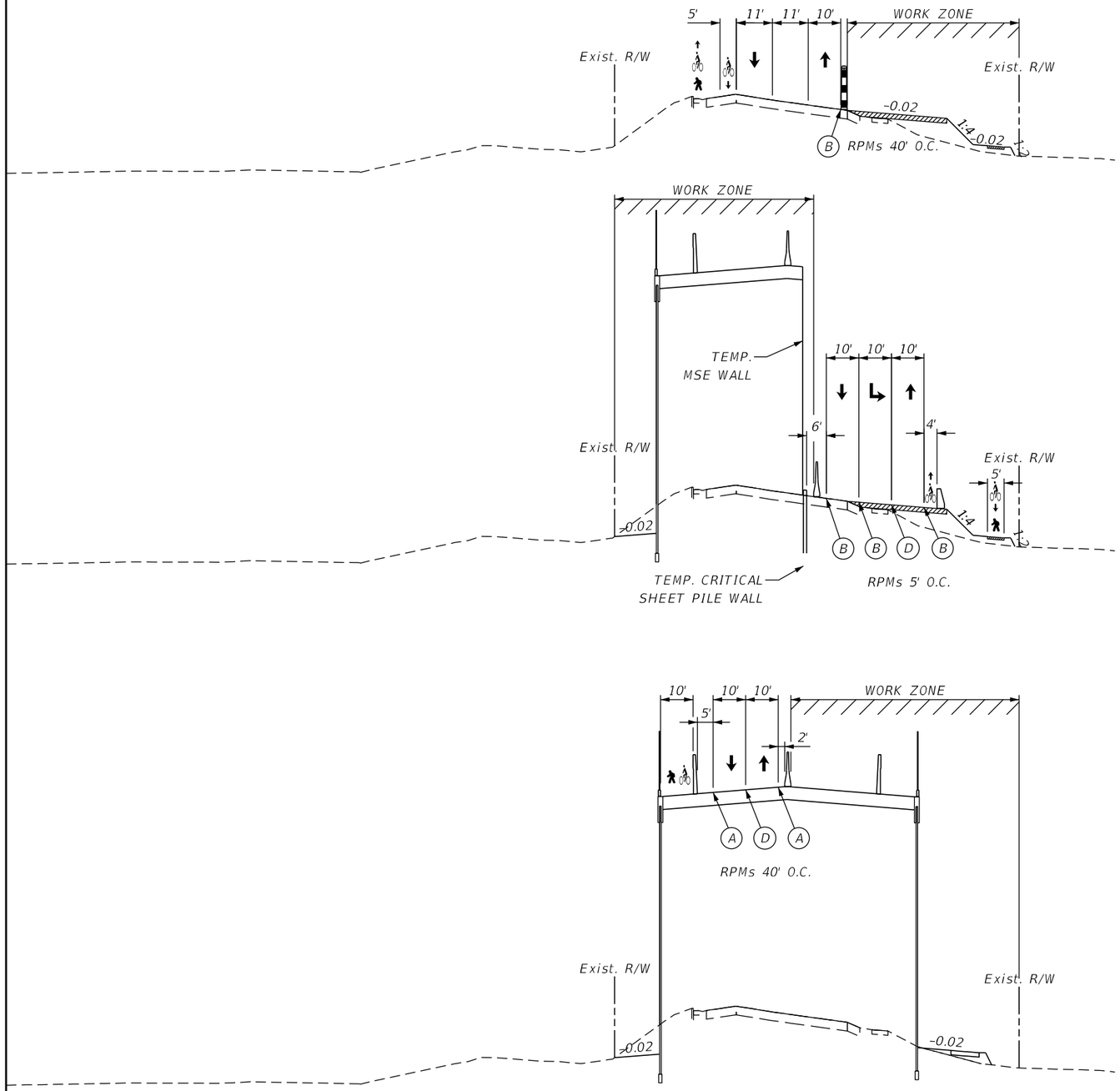
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
CRITICAL SECTIONS

SHEET NO. 211



PROP. PAVEMENT STRIPING LEGEND

- (A) 6" WHITE
- (B) 6" WHITE w/ W/R RPMs
- (C) 6" YELLOW
- (D) 6" DBL. YELLOW w/ Y/Y RPMs
- (E) 6" WHITE (10'-30' SKIP) w/ W/R RPMs
- (F) 6" YELLOW (10'-30' SKIP) w/ Y/Y RPMs

LEGEND

- TYPE II BARRICADES
- TEMPORARY BARRIER
- LOW PROFILE BARRIER
- TEMPORARY PAVEMENT
- TEMPORARY 2" MISC. ASPH. PAVEMENT

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SR 684
SECTION D-D - STA. 240+33.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

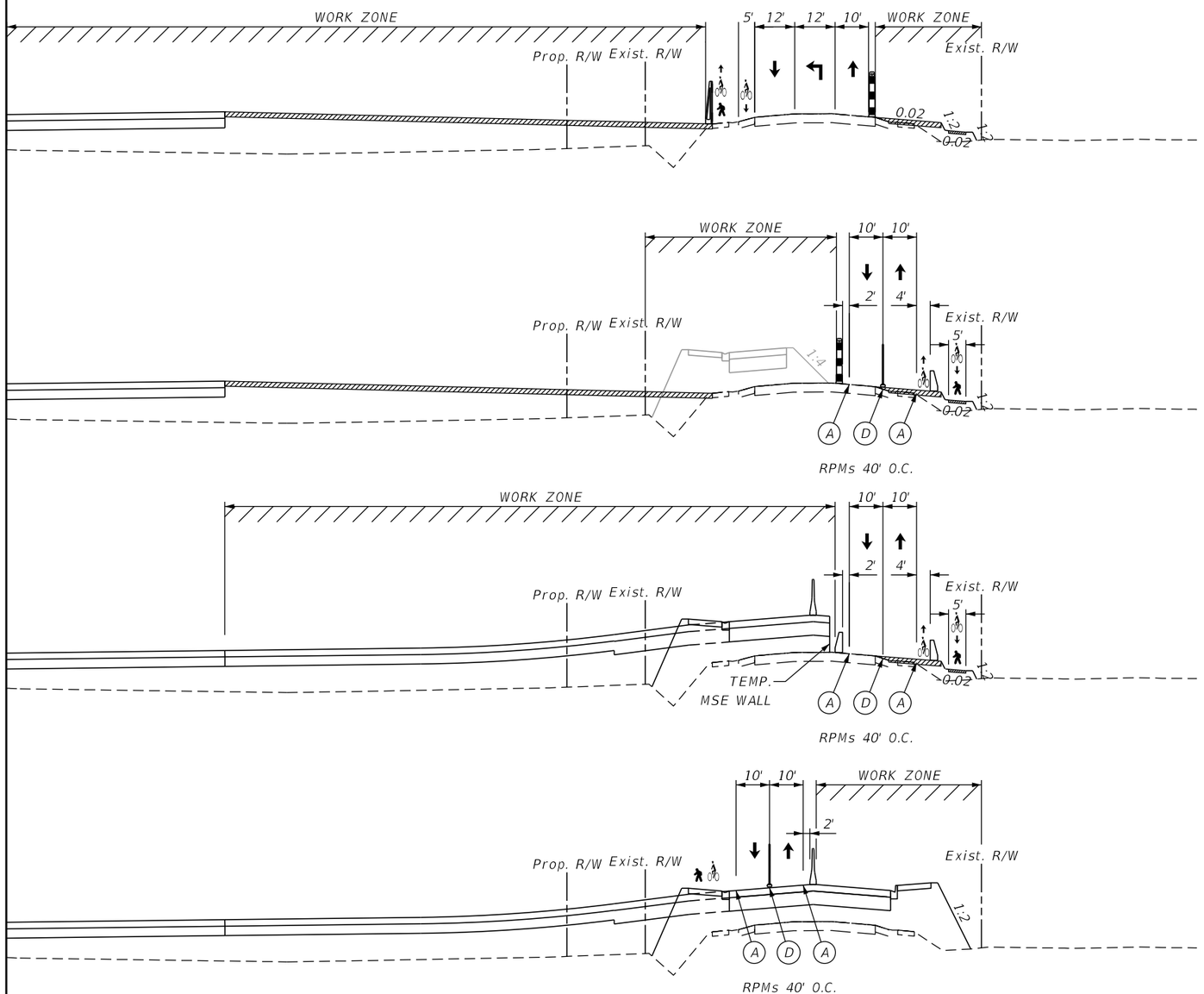
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
CRITICAL SECTIONS

SHEET NO. 212



PHASE 1A

PHASE 1B-1

PHASE 1B-2

PHASE 2

PROP. PAVEMENT STRIPING LEGEND

- (A) 6" WHITE
- (B) 6" WHITE w/ W/R RPMs
- (C) 6" YELLOW
- (D) 6" DBL. YELLOW w/ Y/Y RPMs
- (E) 6" WHITE (10'-30' SKIP) w/ W/R RPMs
- (F) 6" YELLOW (10'-30' SKIP) w/ Y/Y RPMs

LEGEND

- TYPE II BARRICADES
- TEMPORARY BARRIER
- LOW PROFILE BARRIER
- PEDESTRIAN LCD
- TEMPORARY LANE SEPARATOR
- TEMPORARY PAVEMENT
- TEMPORARY 2" MISC. ASPH. PAVEMENT

SR 684
SECTION E-E - STA. 244+00.00

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

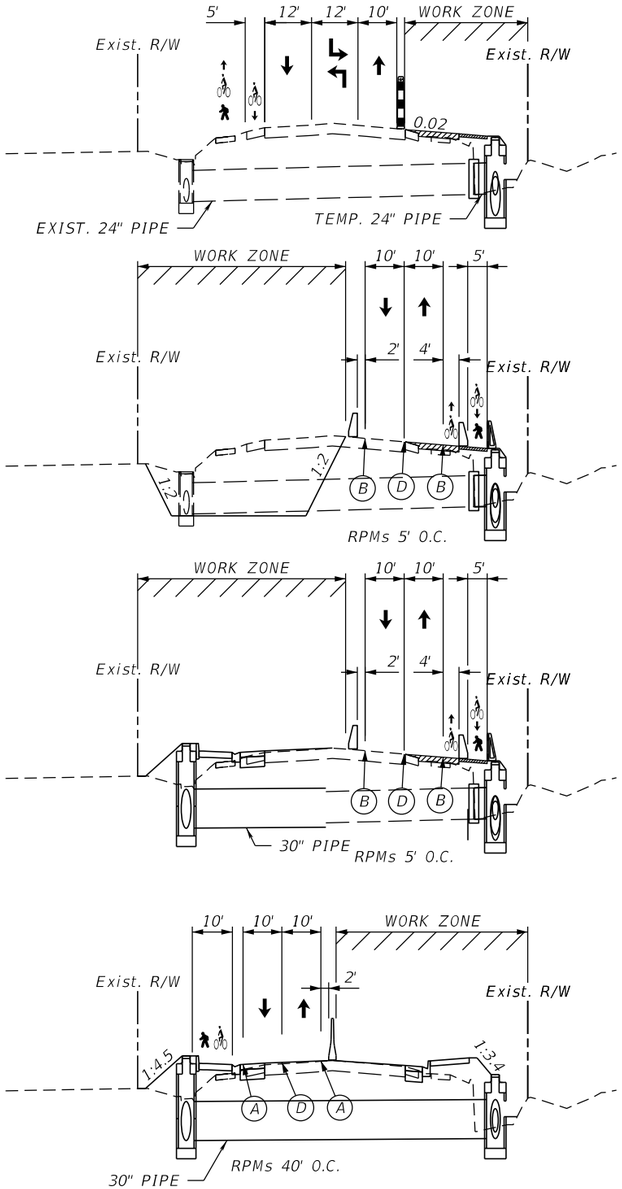
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
CRITICAL SECTIONS

SHEET NO. 213



PHASE 1A

PHASE 1B-1

PHASE 1B-2

PHASE 2

PROP. PAVEMENT STRIPING LEGEND

- (A) 6" WHITE
- (B) 6" WHITE w/ W/R RPMs
- (C) 6" YELLOW
- (D) 6" DBL. YELLOW w/ Y/Y RPMs
- (E) 6" WHITE (10'-30' SKIP) w/ W/R RPMs
- (F) 6" YELLOW (10'-30' SKIP) w/ Y/Y RPMs

LEGEND

- TYPE II BARRICADES
- TEMPORARY BARRIER
- LOW PROFILE BARRIER
- TEMPORARY PAVEMENT
- TEMPORARY 2" MISC. ASPH. PAVEMENT

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SR 684
SECTION F-F - STA. 246+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

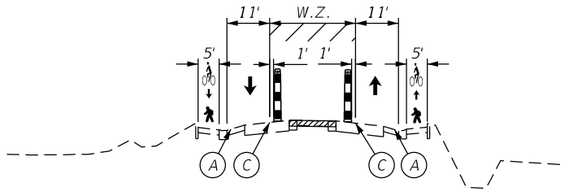
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

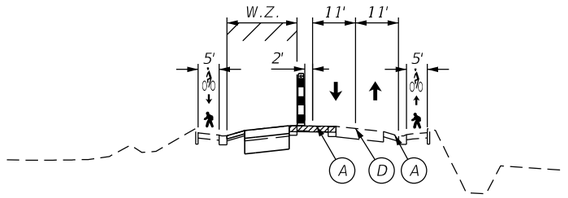
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS CRITICAL SECTIONS

SHEET NO. 214

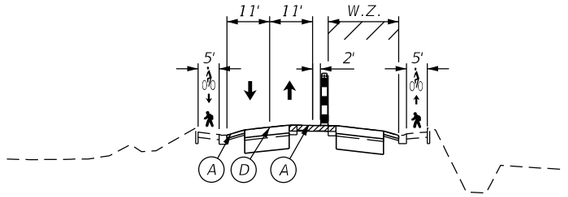


PHASE 3-1



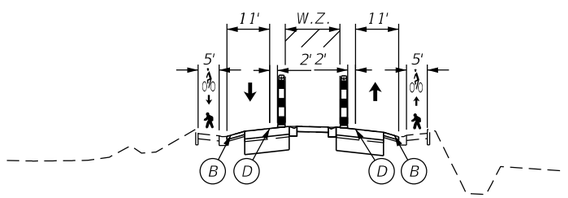
RPMs 40' O.C.

PHASE 3-2



RPMs 40' O.C.

PHASE 3-3



RPMs 5' O.C.

PHASE 3-4

PROP. PAVEMENT STRIPING LEGEND

- (A) 6" WHITE
- (B) 6" WHITE w/ W/R RPMs
- (C) 6" YELLOW
- (D) 6" DBL. YELLOW w/ Y/Y RPMs
- (E) 6" WHITE (10'-30' SKIP) w/ W/R RPMs
- (F) 6" YELLOW (10'-30' SKIP) w/ Y/Y RPMs

LEGEND

- TYPE II BARRICADES
- TEMPORARY BARRIER
- LOW PROFILE BARRIER
- TEMPORARY PAVEMENT

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SR 684
SECTION G-G - STA. 249+60.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

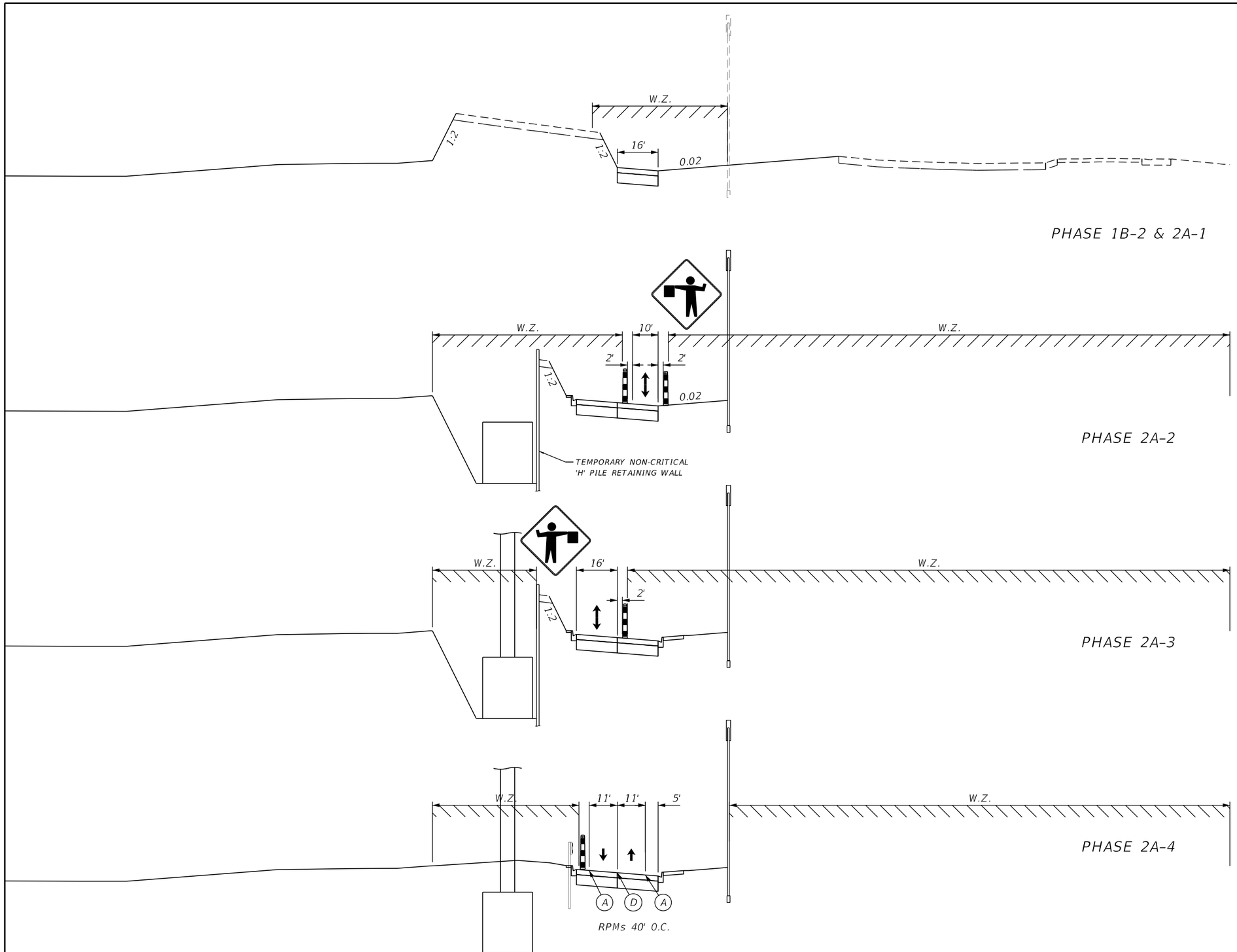
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
CRITICAL SECTIONS

SHEET NO. 215



PROP. PAVEMENT STRIPING LEGEND

- (A) 6" WHITE
- (B) 6" WHITE w/ W/R RPMs
- (C) 6" YELLOW
- (D) 6" DBL. YELLOW w/ Y/Y RPMs
- (E) 6" WHITE (10'-30' SKIP) w/ W/R RPMs
- (F) 6" YELLOW (10'-30' SKIP) w/ Y/Y RPMs

LEGEND

- TYPE II BARRICADES
- TEMPORARY BARRIER
- LOW PROFILE BARRIER
- TEMPORARY PAVEMENT

127TH ST. W.
SECTION H-H - STA. 40+80.00

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REVISIONS			
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TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

TRAFFIC CONTROL PLANS
CRITICAL SECTIONS

SHEET NO. 216

NOTES:
1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED VV, VH, AND VVH) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
2. REFER TO MANATEE COUNTY'S UWHCA PLAN SET FOR EXISTING WATER AND SEWER REMOVAL LIMITS.
3. UTILITY/AGENCY OWNERS:

COMPANY	CONTACT	TELEPHONE NUMBER
SPECTRUM SUNSHINE STATE LLC	PATRICK PISTNER	941-737-5159
FPL - DISTRIBUTION	BRIAN GARVER	239-231-9471
FLORIDA FRONTIER LLC	DENISE HUTTON	941-504-9652
MANATEE COUNTY UTILITIES	SCOTT MAY	941-708-7450
PEOPLES GAS SYSTEMS (TECO)	ALEX MCFARLANE	813-557-6134
MCI METRO ACCESS TRANSMISSION SERVICES LLC	MICHAEL KROL	813-547-4037
MANATEE COUNTY IT DEPT. & SCHOOL DISTRICT MANATEE COUNTY (SDMC)	BILL KERSEY	941-748-4507

NOTES, CONTINUED:
4. SEE UWHCA PLANS FOR PORTIONS OF MANATEE COUNTY'S EXISTING WATER AND/OR SEWER PIPES THAT HAVE BEEN DESIGNATED AS "TO REMAIN" THAT ARE TO BE REMOVED.

1" = 40'

BT / TO REMAIN FRONTIER
2-4" PVC w/ FIBER / TO REMAIN FRONTIER
18" PVC FORCE MAIN / TO REMAIN MANATEE COUNTY
BFOC / TO REMAIN SPECTRUM
OFOT & OTV / TO REMAIN SPECTRUM
16" WATER MAIN / TO REMAIN MANATEE COUNTY
2-2" HDPE BFOC / TO BE ADJUSTED MCI / BY OTHERS
18" DIP FORCE MAIN (INACTIVE) / TO REMAIN MANATEE COUNTY
VVH 72, 73, 74, 75, 76, 77
OE 13Kv / TO REMAIN FPL
BTV / TO REMAIN SPECTRUM
VVH 79
VVH 80
VVH 78
2-2" HDPE / PROPOSED FRONTIER / BY OTHERS
18" FM / PROPOSED MANATEE COUNTY / BY OTHERS
20" UNK WM / TO REMAIN MANATEE COUNTY
BT / TO BE REMOVED FRONTIER / BY OTHERS
VVH 64, 65, 66, 67, 68, 69, 70
2-2" PVC / TO REMAIN SPECTRUM
VVH 61, 62, 63, 71, 137, 138, 139, 140, 141, 142, 143
VVH 15, 16, 17, 18, 19, 20, 21, 22
8" DIP WATER / PROPOSED MANATEE COUNTY / BY OTHERS
AUTOX / TO BE REMOVED FPL / BY OTHERS
VVH 126, 127, 128, 129, 130, 131, 132
18" DIP FM (INACTIVE) / TO BE REMOVED MANATEE CO. / BY OTHERS
BE 13Kv / TO REMAIN FPL
BE 13Kv / TO BE REMOVED FPL / BY OTHERS
2-2" CONDUIT / PROPOSED SPECTRUM / BY OTHERS
20" DIP WM WITHIN 36" STEEL CASING / PROPOSED MANATEE COUNTY / BY OTHERS
18" PVC FM WITHIN 36" STEEL CASING / PROPOSED MANATEE COUNTY / BY OTHERS
16" DIP WM / PROPOSED MANATEE COUNTY / UWHCA
OE 13Kv / TO BE REMOVED FPL / BY OTHERS
BE / PROPOSED FPL / BY OTHERS
BE 13Kv / TO BE REMOVED FPL / BY OTHERS
OE < 240V / TO BE REMOVED FPL / BY OTHERS
2-2" PVC / BFOC TO BE REMOVED SPECTRUM / BY OTHERS
AUTOX / PROPOSED FPL / BY OTHERS
BE / PROPOSED FPL / BY OTHERS
BE 13Kv / TO BE REMOVED FPL / BY OTHERS
EXIST. R/W
2-2" HDPE / PROPOSED FRONTIER / BY OTHERS
BE / PROPOSED FPL / BY OTHERS
6" PVC FORCE MAIN MANATEE COUNTY / UWHCA
VAULT / TO BE REMOVED SPECTRUM / BY OTHERS
GEAR PAD / PROPOSED FPL / BY OTHERS
BE / PROPOSED FPL / BY OTHERS
OE < 240V / TO BE REMOVED FPL / BY OTHERS
OE < 240V / TO REMAIN FPL
EXIST. R/W
OFOT & OTV / TO REMAIN SPECTRUM
2-4" PVC w/ FIBER / TO REMAIN FRONTIER
2-2" HDPE BFOC / TO BE ADJUSTED MCI
STUB OUT FOR FUTURE USE CONDUIT STA. 207+80 (+/-)
OE < 240V / TO BE REMOVED FPL / BY OTHERS
8" HDPE / PROPOSED SPECTRUM / BY OTHERS
OE 13Kv / PROPOSED FPL / BY OTHERS
OE 13Kv / TO BE REMOVED FPL / BY OTHERS
OE 13Kv / TO REMAIN FPL
OE < 240V / TO BE REMOVED FPL / BY OTHERS
PROPOSED CONCRETE ITS POLE
BE / PROPOSED FPL / BY OTHERS
BE 13Kv / TO BE REMOVED FPL / BY OTHERS
PROPOSED 1.50" DIA. FUTURE USE CONDUIT
VVH 23
VVH 83
VVH 82
VVH 84
VVH 87
VVH 114
VVH 85
VVH 86
2-2" HDPE / TO BE REMOVED MCI / BY OTHERS
2-2" HDPE / PROPOSED MCI / BY OTHERS
OE < 240V / TO BE REMOVED FPL / BY OTHERS
8" HDPE / TO REMAIN MCI
6" PVC FM / PROPOSED MANATEE COUNTY / BY OTHERS
8" DIP WM / PROPOSED MANATEE COUNTY / BY OTHERS
20" HDPE FM / PROPOSED MANATEE COUNTY / BY OTHERS
20" DIP WM / PROPOSED MANATEE COUNTY / BY OTHERS
BT COPPER / TO BE REMOVED FRONTIER / BY OTHERS
EXIST. R/W
BT COPPER / TO REMAIN FRONTIER
4" PE GAS MAIN / TO REMAIN TECO PEOPLES GAS
℄ CONST. SR 789
℄ CONST. SR 684
℄ SURVEY SR 684
MATCHLINE STA. 210+20.00
SR 789
SR 684
S 89° 40' 37" E
N 16° 57' 06" W
N 17° 05' 06" W

LEGEND
- CONCRETE I.T.S. POLE
- PROPOSED LIGHT POLES
- EXISTING LIGHT POLES
- SINGLE POST SIGN STRUCTURE
- MULTIPOST SIGN STRUCTURE
- BRIDGE PILE
- SHEET PILE
- SPECIAL DETOUR TEMP. PAVT.
- △ 20" DIP WM / PROPOSED / MANATEE CO. / UWHCA
- □ 20" DIP WM / TO BE REMOVED / MANATEE CO. / BY OTHERS
- ▽ 18" PVC FM / TO BE PLACED OUT OF SERVICE MANATEE COUNTY / BY OTHERS
- ▽▽ 18" PVC FM / TO BE REMOVED MANATEE COUNTY / BY OTHERS

0 10 40
Feet

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

UTILITY ADJUSTMENTS
SR 684 (CORTEZ ROAD W)

SHEET NO. 217

LEGEND

- PROPOSED LIGHT POLES
- EXISTING LIGHT POLES
- SINGLE POST SIGN STRUCTURE
- MULTIPOST SIGN STRUCTURE
- BRIDGE PILE
- SHEET PILE
- SPECIAL DETOUR TEMP. PAVT.

- △ 8" PVC WM / TO BE REMOVED / MANATEE COUNTY / BY OTHERS
- □ BT COPPER / TO BE REMOVED WITH 4" PVC TO BE GROUTED / FRONTIER / BY OTHERS
- ⊕ PROPOSED 1.50" DIA. FUTURE USE CONDUIT
- ◇ FEEDER SPLICE BOX / PROPOSED / FPL / BY OTHERS

1" = 40'

2-2" HDPE / PROPOSED FRONTIER / BY OTHERS
BE / PROPOSED FPL / BY OTHERS
EXIST. R/W
6" PVC FM / TO BE REMOVED MANATEE COUNTY / BY OTHERS
OE < 240V / TO BE REMOVED FPL / BY OTHERS
BT COPPER / TO BE REMOVED FRONTIER / BY OTHERS
BTV / TO BE REMOVED SPECTRUM / BY OTHERS
2" PVC / BFOC TO BE REMOVED SPECTRUM / BY OTHERS
BE 13Kv / TO BE REMOVED FPL / BY OTHERS
20" UNK WM / TO BE REMOVED MANATEE COUNTY / BY OTHERS
EXIST. R/W
PROPOSED PERPETUAL EASEMENT
20" DIP WATER MAIN / TO BE PLACED OUT OF SERVICE MANATEE COUNTY / BY OTHERS
BE / PROPOSED FPL / BY OTHERS
20" PVC FORCE MAIN (INACTIVE) / TO REMAIN MANATEE COUNTY
PROPOSED SOVEREIGN SUBMERGED LAND EASEMENT
20" HDPE FORCE MAIN / TO BE PLACED OUT OF SERVICE MANATEE COUNTY / BY OTHERS
8" PVC / TO BE PLACED OUT OF SERVICE SPECTRUM / BY OTHERS
EXIST. EASEMENT
BE 23Kv / TO BE PLACED OUT OF SERVICE FPL / BY OTHERS
℄ CONST. SR 684
TEMP. CRITICAL SHEET PILE WALL
NON-CRITICAL TEMP. SHEET PILE WALL
℄ SURVEY SR 684
N 83° 56' 34" E
EXIST. SR 684
SR 684
8" HDPE BFOC / TO REMAIN MCI
TEMPORARY WORK TRESTLE FOUNDATION (TYP.)
8" HDPE / PROPOSED SPECTRUM / BY OTHERS
20" HDPE FM / PROPOSED MANATEE COUNTY / BY OTHERS
20" DIP WM / PROPOSED MANATEE COUNTY / BY OTHERS
6" PVC FM / PROPOSED MANATEE COUNTY / BY OTHERS
8" DIP WM / PROPOSED MANATEE COUNTY / BY OTHERS
BE 13Kv / TO BE REMOVED FPL / BY OTHERS
BT COPPER / TO REMAIN FRONTIER
6" PVC FM / TO REMAIN MANATEE COUNTY
8" PVC WM / TO REMAIN MANATEE COUNTY
6" PVC FM / TO BE REMOVED MANATEE COUNTY / BY OTHERS
BT COPPER / TO BE REMOVED FRONTIER / BY OTHERS
EXIST. EASEMENT
BT COPPER / TO REMAIN FRONTIER
EXIST. R/W

MATCHLINE STA. 210+20.00
MATCHLINE STA. 215+60.00

0 10 40
Feet

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

UTILITY ADJUSTMENTS
SR 684 (CORTEZ ROAD W)

SHEET NO. 218

LEGEND

PROPOSED LIGHT POLES
EXISTING LIGHT POLES
SINGLE POST SIGN STRUCTURE
MULTIPOST SIGN STRUCTURE
BRIDGE PILE

1" = 40'

N

PROPOSED SOVEREIGN SUBMERGED LAND EASEMENT
20" PVC FORCE MAIN (INACTIVE) / TO REMAIN MANATEE COUNTY
BE / PROPOSED FPL / BY OTHERS
20" DIP WATER MAIN / TO BE PLACED OUT OF SERVICE MANATEE COUNTY / BY OTHERS
8" PVC / TO BE PLACED OUT OF SERVICE SPECTRUM / BY OTHERS
TEMPORARY WORK TRESTLE FOUNDATION (TYP.)
BE 23Kv / TO BE PLACED OUT OF SERVICE FPL
EXIST. EASEMENT
MATCHLINE STA. 215+60.00
MATCHLINE STA. 221+00.00
216
217
218
219
220
℄ CONST. SR 684
N 83° 56' 34" E
SR 684
PROPOSED 1.50" DIA. FUTURE USE CONDUIT
105
106
107
108
109
N 83° 56' 34" E
EXIST. SR 684
℄ SURVEY SR 684
8" HDPE BFOC / TO REMAIN MCI
20" HDPE FORCE MAIN / TO BE PLACED OUT OF SERVICE MANATEE COUNTY / BY OTHERS
20" HDPE FM / PROPOSED MANATEE COUNTY / BY OTHERS
20" DIP WM / PROPOSED MANATEE COUNTY / BY OTHERS
8" HDPE / PROPOSED SPECTRUM / BY OTHERS
EXIST. EASEMENT

0 10 40
Feet

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REVISIONS			
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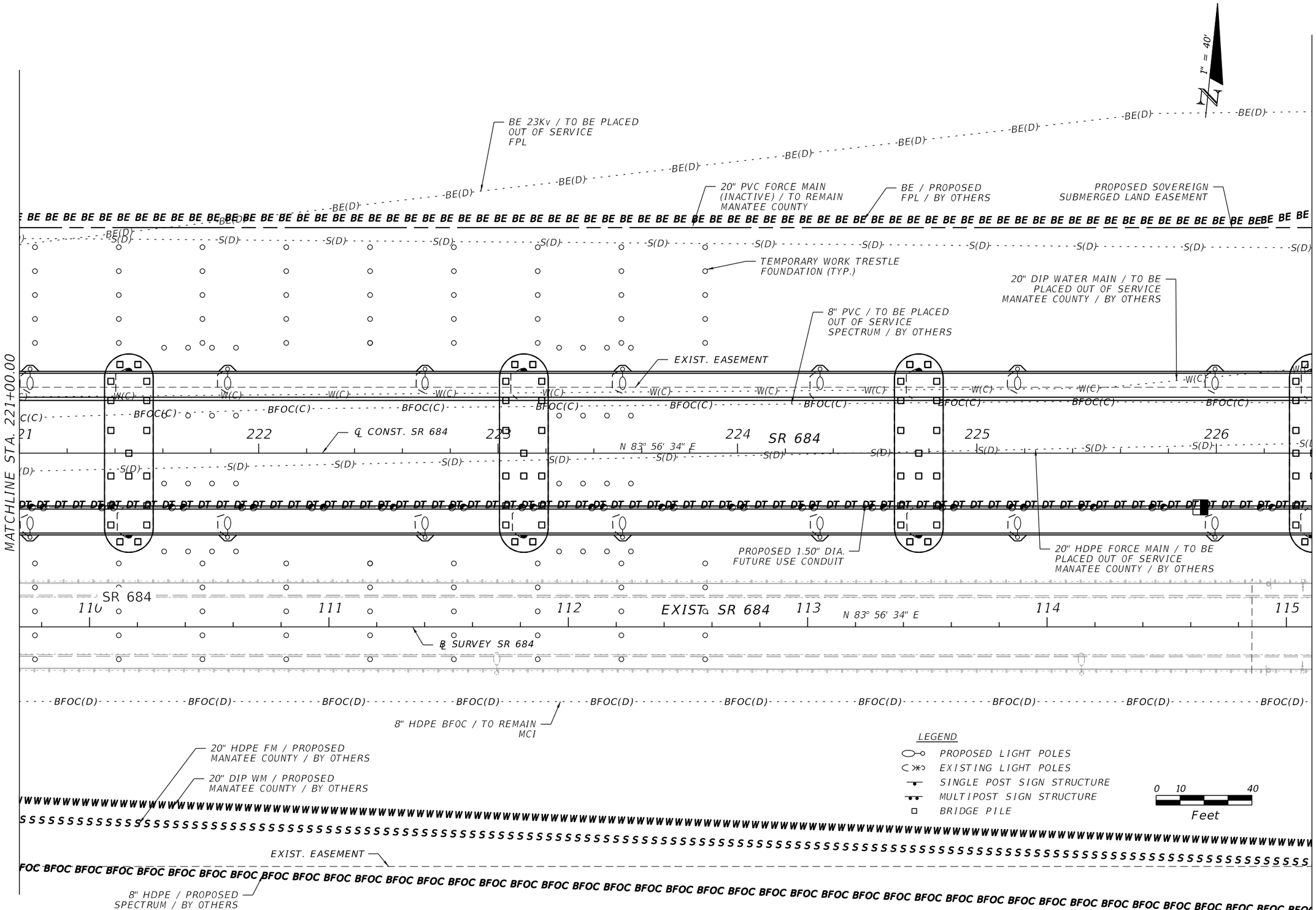
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

UTILITY ADJUSTMENTS
SR 684 (CORTEZ ROAD W)

SHEET NO. 219



REVISIONS			
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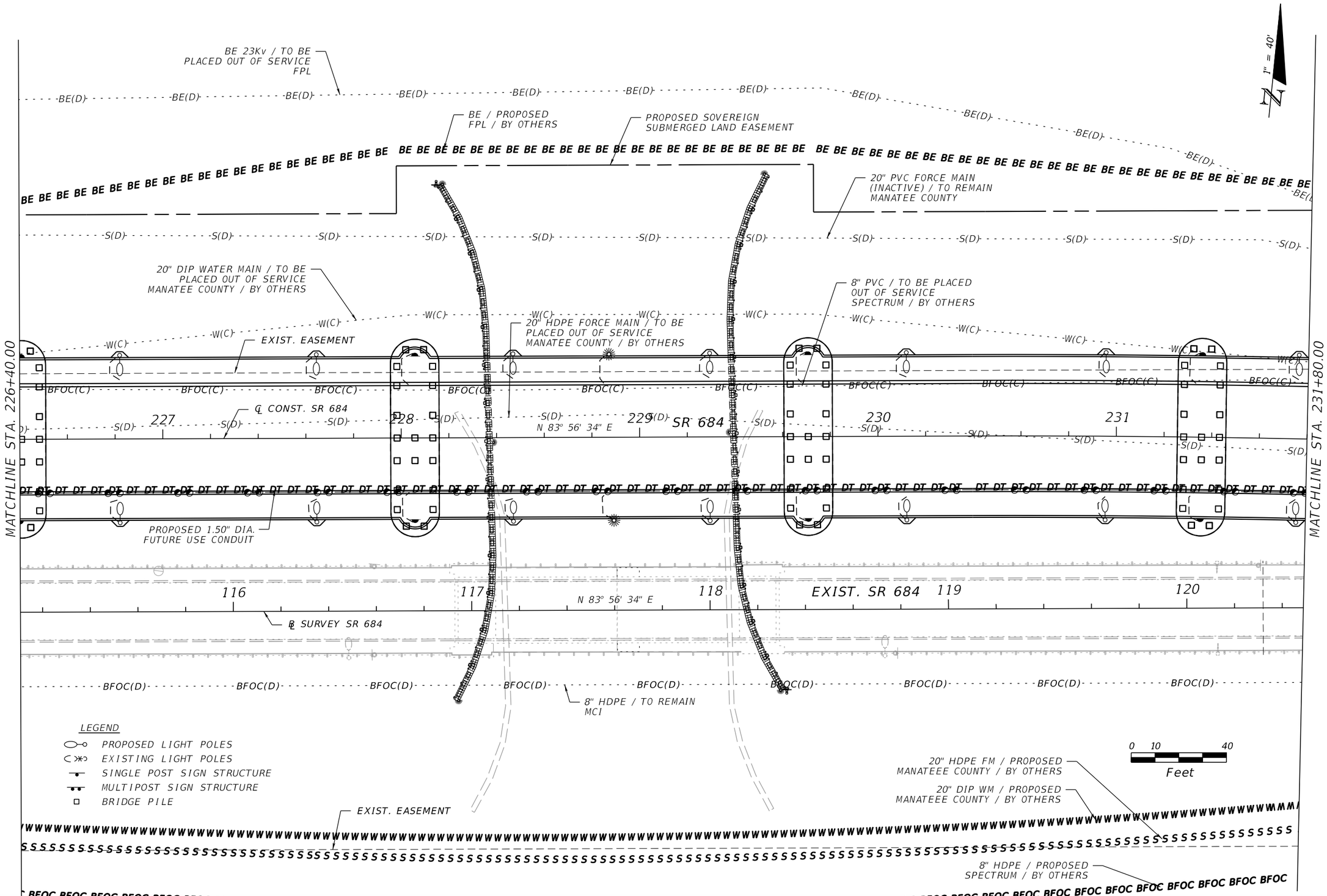
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

UTILITY ADJUSTMENTS
SR 684 (CORTEZ ROAD W)

SHEET NO. 220

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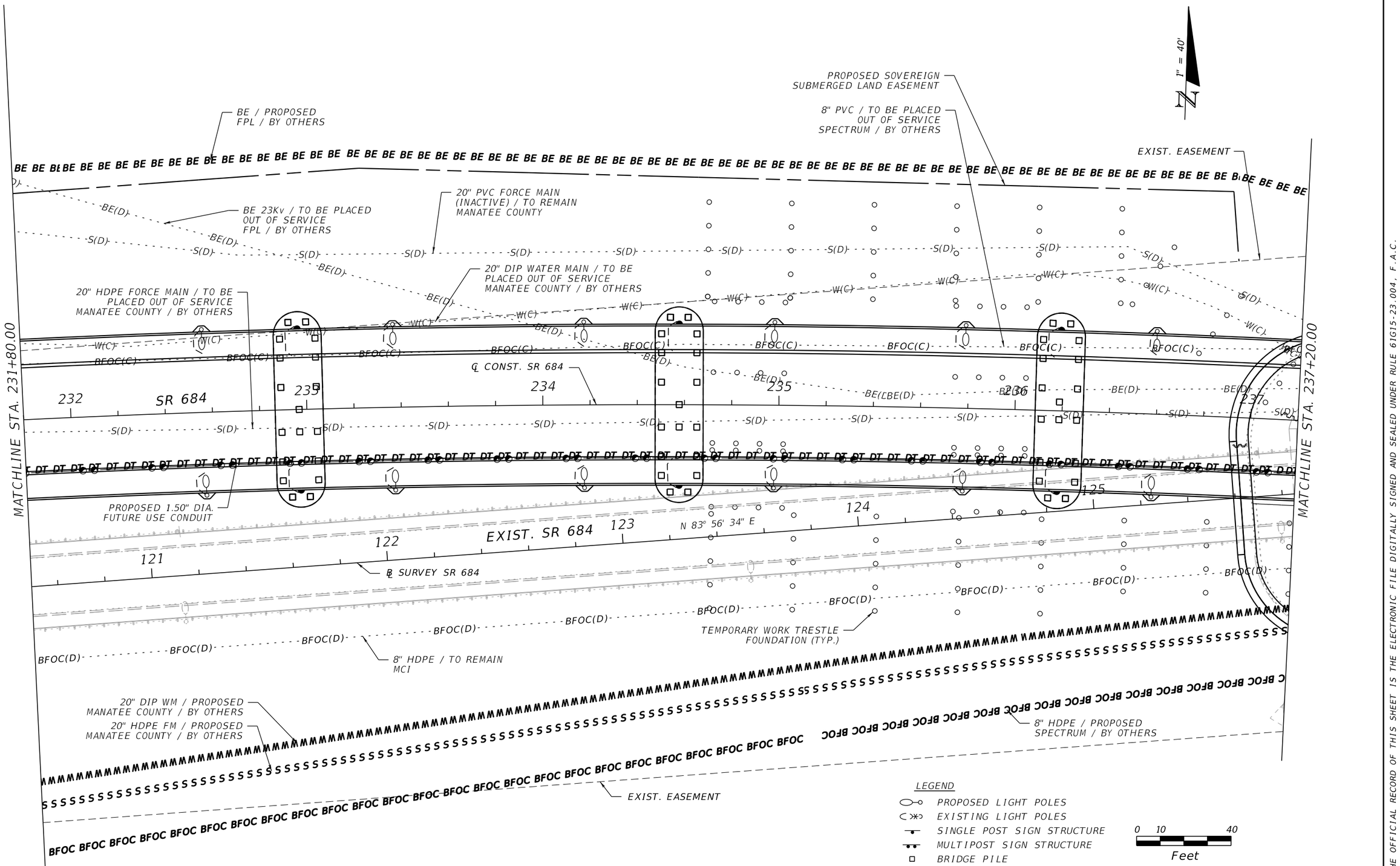
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

UTILITY ADJUSTMENTS
SR 684 (CORTEZ ROAD W)

SHEET NO. 221

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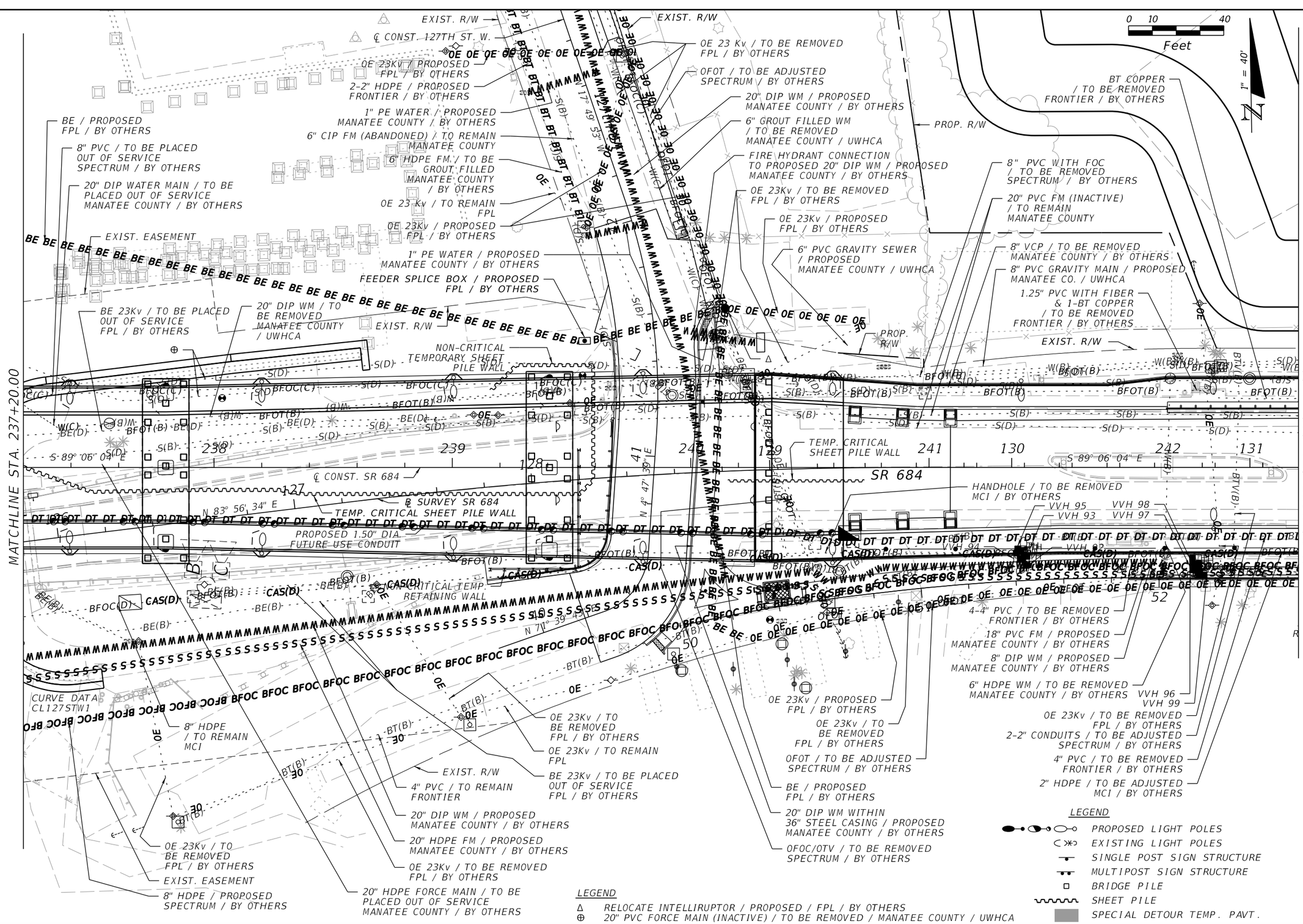
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

UTILITY ADJUSTMENTS
SR 684 (CORTEZ ROAD W)

SHEET NO. 222

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REVISIONS			
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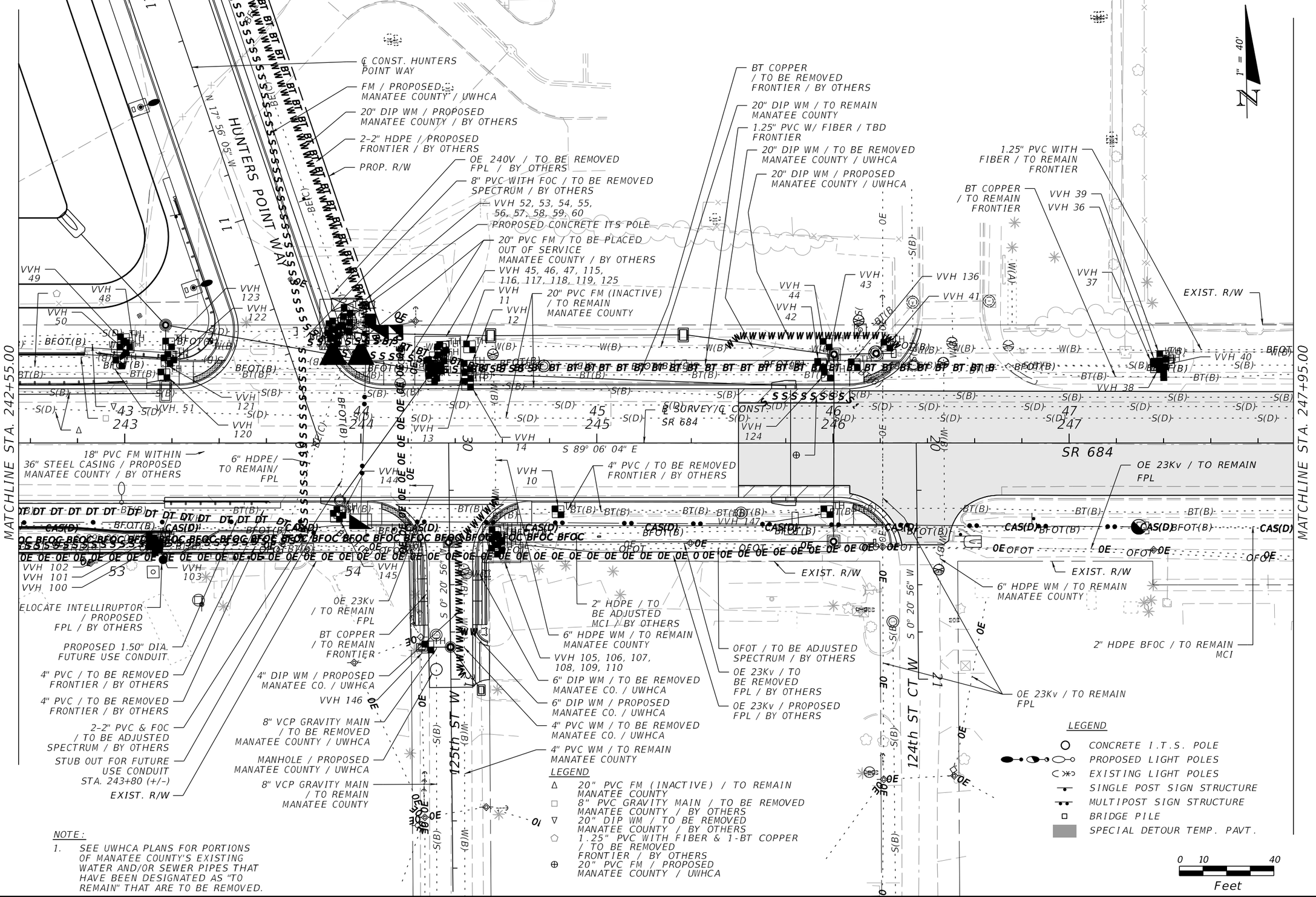
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

UTILITY ADJUSTMENTS
SR 684 (CORTEZ ROAD W)

SHEET NO. 223



NOTE:

1. SEE UWHCA PLANS FOR PORTIONS OF MANATEE COUNTY'S EXISTING WATER AND/OR SEWER PIPES THAT HAVE BEEN DESIGNATED AS "TO REMAIN" THAT ARE TO BE REMOVED.

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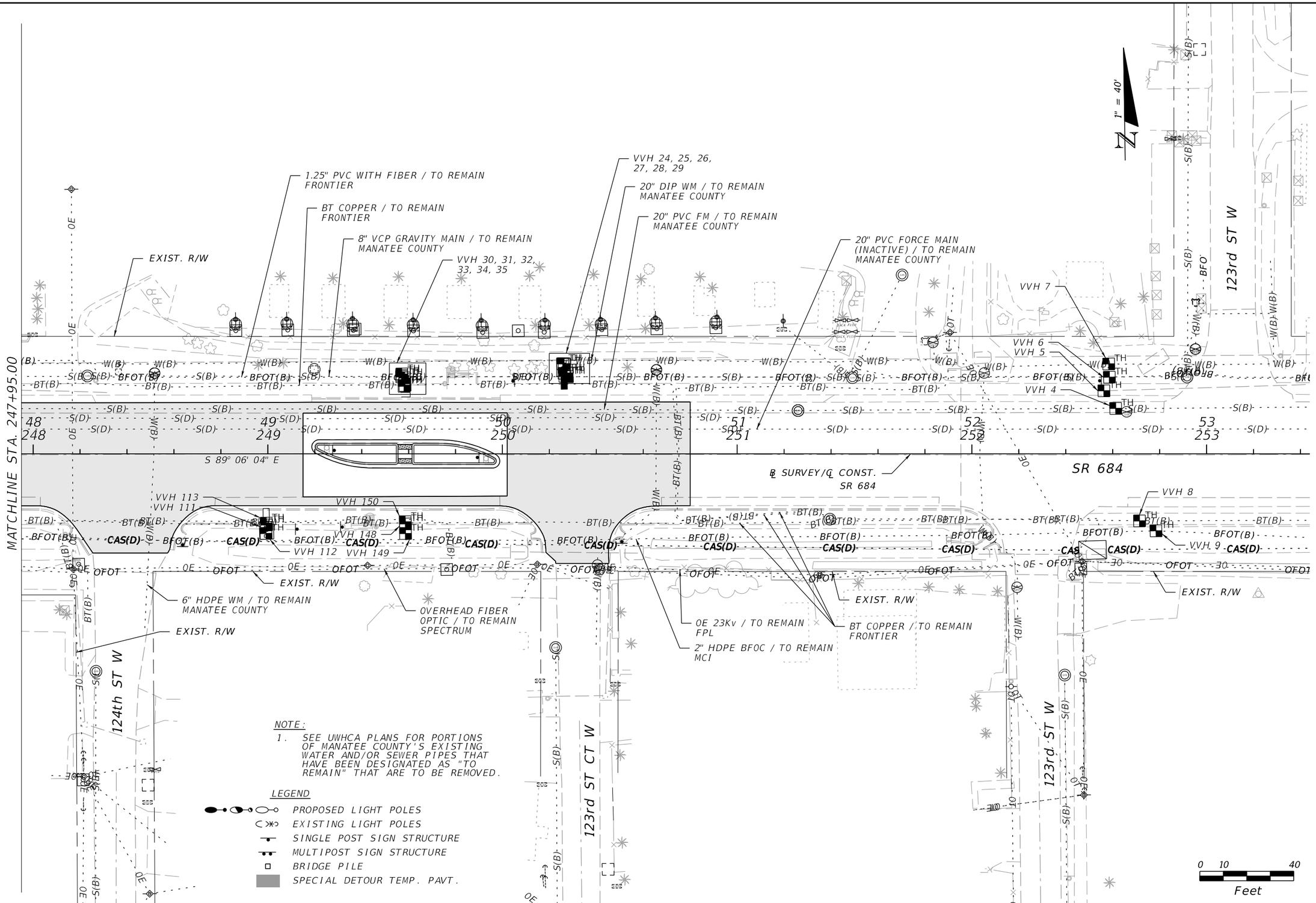
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

UTILITY ADJUSTMENTS
SR 684 (CORTEZ ROAD W)

SHEET NO. 224

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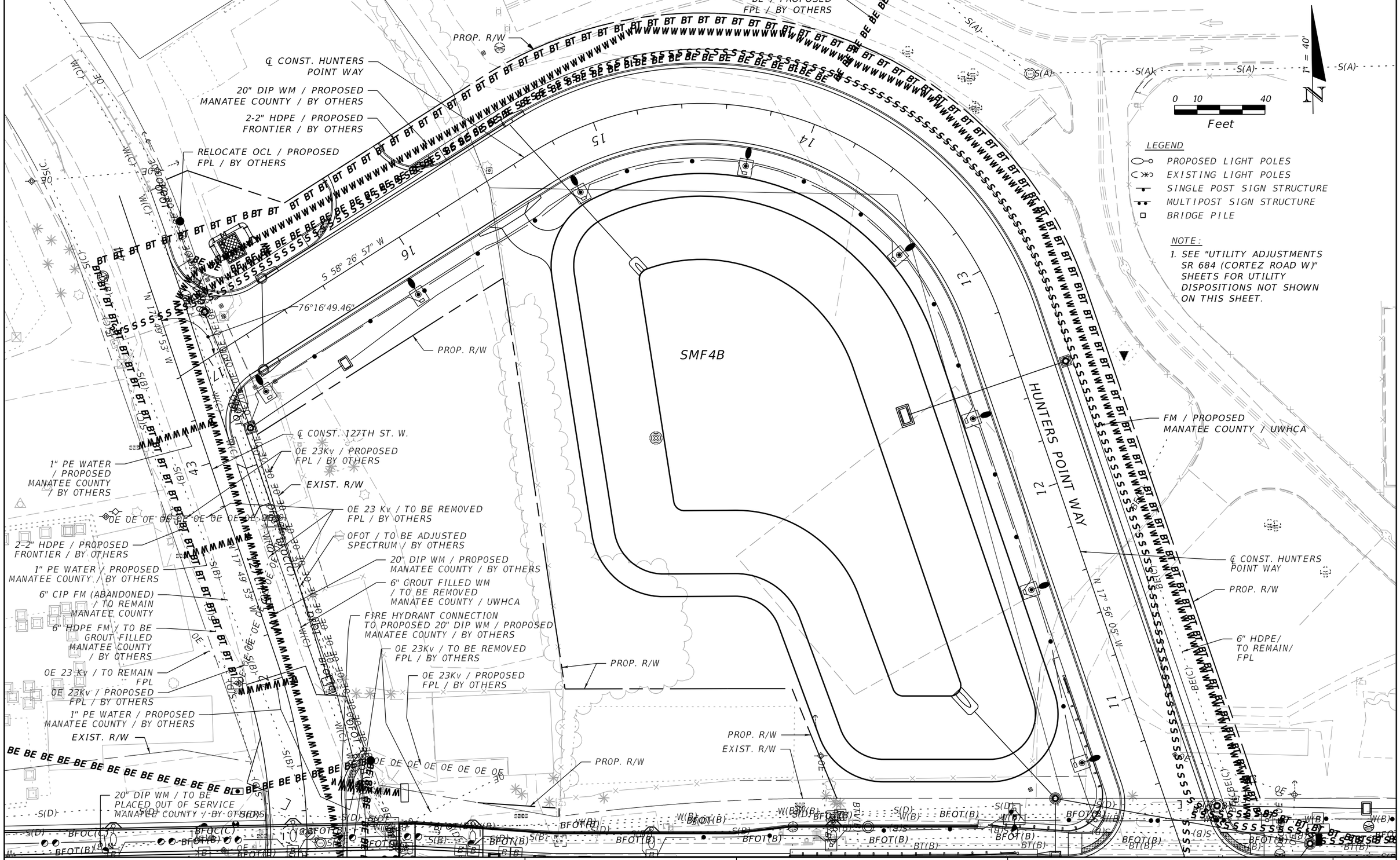
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

UTILITY ADJUSTMENTS
SR 684 (CORTEZ ROAD W)

SHEET NO. 225

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REVISIONS

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TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

UTILITY ADJUSTMENTS HUNTERS POINT WAY

SHEET NO. 226

SUMMARY OF VERIFIED UTILITIES

Vvh #	UTILITY DESCRIPTION (Owner, type)	SIZE	MATERIALS	℄ SURVEY SR 684			EXISTING GROUND ELEVATION	TOP ELEVATION	COMMENTS
				STATION	OFFSET	LT/RT			
VVH 01	FRONTIER, FIBER OPTIC CABLE	(4) 4"	PVC	OFF CHAIN	OFF CHAIN	RT	5.03'	0.47'	THE LOCATION FALLS PAST THE LIMITS OF THE ALIGNMENT
VVH 02	MANATEE COUNTY/ITS, TRAFFIC SIGNAL	(2) 1 1/4"	POLYETHYLENE	OFF CHAIN	OFF CHAIN	RT	5.02'	1.22'	THE LOCATION FALLS PAST THE LIMITS OF THE ALIGNMENT
VVH 03	MANATEE COUNTY/ITS, TRAFFIC SIGNAL	UNKNOWN	STEEL	OFF CHAIN	OFF CHAIN	RT	5.03'	-0.11'	THE LOCATION FALLS PAST THE LIMITS OF THE ALIGNMENT UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION AND CAVE IN
VVH 04	MANATEE COUNTY, FORCE MAIN	20"	COATED STEEL	52+61.28	19.38'	LT	5.00'	0.72'	
VVH 05	FDOT, STORM	16"	RCP	52+56.24	26.86'	LT	4.63'	-0.15'	
VVH 06	FRONTIER, FIBER OPTIC CABLE	1 1/4"	POLYETHYLENE	52+58.60	32.66'	LT	4.48'	1.62'	
VVH 07	MANATEE COUNTY, WATER	6"	STEEL	52+58.30	38.30'	LT	4.12'	-1.78'	
VVH 08	FRONTIER, TELEPHONE	(2) 4"	PVC	52+71.42	28.52'	RT	4.61'	1.61'	
VVH 09	MANATEE COUNTY/ITS, TRAFFIC SIGNAL	1 1/4"	PVC	52+78.46	32.74'	RT	3.94'	0.78'	
VVH 10	FRONTIER, TELEPHONE	(3) 4"	PVC	44+83.52	29.09'	RT	4.52'	2.12'	
VVH 11	MANATEE COUNTY, WATER	24"	STEEL	44+46.05	40.76'	LT	1.40'	-2.14'	
VVH 12	FRONTIER, FIBER OPTIC CABLE	1/2"	POLYETHYLENE	44+45.05	32.46'	LT	3.91'	1.39'	
VVH 13	FRONTIER, TELEPHONE	4"	PVC	44+45.25	28.61'	LT	4.19'	1.09'	
VVH 14	MANATEE COUNTY, FORCE MAIN	20"	COATED STEEL	44+45.18	24.92'	LT	4.36'	-2.14'	
VVH 15	FPL, ELECTRIC	(3) 1 1/4"	POLYETHYLENE	94+76.38	64.45'	LT	3.67'	0.95'	
VVH 16	MANATEE COUNTY, FORCE MAIN	18"	D.I.	94+77.10	56.24'	LT	3.65'	0.80'	
VVH 17	SPECTRUM, CABLE TV	6"	PVC	94+77.49	54.48'	LT	3.66'	1.46'	
VVH 18	SPECTRUM, CABLE TV	2"	POLYETHYLENE	94+76.60	46.52'	LT	3.68'	1.13'	
VVH 19	FRONTIER, TELEPHONE	(2) 2"	PVC	94+78.24	45.60'	LT	3.77'	0.79'	
VVH 20	FRONTIER, TELEPHONE	2"	POLYETHYLENE	94+78.23	42.05'	LT	4.50'	1.90'	
VVH 21	MANATEE COUNTY, WATER	20"	STEEL	94+77.50	48.95'	LT	3.63'	-2.03'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION AND CAVE IN
VVH 22	FPL, ELECTRIC	4"	PVC	94+76.40	65.54'	LT	3.76'	1.08'	
VVH 23	FDOT, ELECTRIC STREET LIGHT	1 1/2"	PVC	96+86.49	37.98'	RT	8.68'	6.88'	
VVH 24	EXPLORATORY - TRENCH LIMIT	N/A	N/A	50+26.24	38.41'	LT	4.00'		EDGE OF TRENCH, DUG TO 3.5' DUE TO WATER INTRUSION, PROBED TO 10'
VVH 25	EXPLORATORY - TRENCH LIMIT	N/A	N/A	50+26.19	34.36'	LT	3.93'		EDGE OF TRENCH, DUG TO 3.5' DUE TO WATER INTRUSION, PROBED TO 10'
VVH 26	MANATEE COUNTY, WATER	20"	C.I.	50+25.64	38.38'	LT	3.99'	-1.13'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 27	MCI, FIBER OPTIC CABLE	(2) 2"	POLYETHYLENE	50+27.50	34.43'	LT	3.85'	-0.95'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 28	MANATEE COUNTY, SANITARY	8"	VCP	50+26.56	33.08'	LT	4.03'	-6.39'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 29	FRONTIER, FIBER OPTIC CABLE	1 1/2"	POLYETHYLENE	50+27.59	32.86'	LT	4.03'	1.56'	
VVH 30	MCI, FIBER OPTIC CABLE	(2) 2"	POLYETHYLENE	49+57.14	34.03'	LT	4.78'	-0.82'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 31	MANATEE COUNTY, SANITARY	8"	VCP	49+57.09	33.38'	LT	4.86'	-6.71'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 32	FRONTIER, FIBER OPTIC CABLE	1 1/2"	POLYETHYLENE	49+57.02	32.85'	LT	4.86'	2.79'	
VVH 33	FRONTIER, TELEPHONE	(2) 4"	PVC	49+58.06	28.86'	LT	4.82'	2.04'	
VVH 34	EXPLORATORY - TRENCH LIMIT	N/A	N/A	49+58.33	32.37'	LT	4.90'		EDGE OF TRENCH, DUG TO 4' PROBED TO 10'
VVH 35	EXPLORATORY - TRENCH LIMIT	N/A	N/A	49+58.43	29.18'	LT	4.86'		EDGE OF TRENCH, DUG TO 4' PROBED TO 10'
VVH 36	MANATEE COUNTY, SANITARY	8"	VCP	47+37.14	33.45'	LT	4.06'	-7.56'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 37	FRONTIER, FIBER OPTIC CABLE	1 1/2"	POLYETHYLENE	47+36.90	33.17'	LT	4.06'	1.12'	
VVH 38	FRONTIER, TELEPHONE	(2) 4"	PVC	47+36.99	32.33'	LT	4.13'	0.99'	
VVH 39	EXPLORATORY - TRENCH LIMIT	N/A	N/A	47+39.69	36.64'	LT	3.79'		EDGE OF TRENCH, DUG TO 4' PROBED TO 10'
VVH 40	EXPLORATORY - TRENCH LIMIT	N/A	N/A	47+39.53	33.54'	LT	3.91'		EDGE OF TRENCH, DUG TO 4' PROBED TO 10'
VVH 41	FRONTIER, FIBER OPTIC CABLE	1 1/2"	POLYETHYLENE	46+22.82	41.44'	LT	4.91'	0.77'	
VVH 42	MANATEE COUNTY, SANITARY	8"	VCP	45+94.73	33.36'	LT	3.63'	-2.84'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 43	FRONTIER, FIBER OPTIC CABLE	1 1/2"	POLYETHYLENE	45+94.84	32.85'	LT	3.66'	0.66'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 44	MANATEE COUNTY, WATER	20"	C.I.	45+97.08	41.82'	LT	3.21'	-1.07'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 45	MANATEE COUNTY, WATER	20"	C.I.	44+34.70	40.54'	LT	2.05'	-1.85'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 46	EXPLORATORY - TRENCH LIMIT	N/A	N/A	44+33.79	39.52'	LT	2.21'		EDGE OF TRENCH, DUG TO 2' DUE TO WATER INTRUSION PROBED TO 10'
VVH 47	EXPLORATORY - TRENCH LIMIT	N/A	N/A	44+33.94	35.99'	LT	3.30'		EDGE OF TRENCH, DUG TO 2' DUE TO WATER INTRUSION PROBED TO 10'
VVH 48	MANATEE COUNTY, WATER	20"	C.I.	43+00.81	42.02'	LT	4.71'	1.04'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 49	EXPLORATORY - TRENCH LIMIT	N/A	N/A	42+99.46	43.79'	LT	4.65'		EDGE OF TRENCH, DUG TO 2.5' DUE TO WATER INTRUSION PROBED TO 10'
VVH 50	EXPLORATORY - TRENCH LIMIT	N/A	N/A	42+99.20	39.46'	LT	4.75'		EDGE OF TRENCH, DUG TO 2.5' DUE TO WATER INTRUSION PROBED TO 10'

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

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

VERIFIED UTILITY LOCATES

SHEET NO. 227

SUMMARY OF VERIFIED UTILITIES

Vvh #	UTILITY DESCRIPTION (Owner, type)	SIZE	MATERIALS	℄ SURVEY SR 684			EXISTING GROUND ELEVATION	TOP ELEVATION	COMMENTS
				STATION	OFFSET	LT/RT			
VVH 51	FRONTIER, FIBER OPTIC CABLE	1 1/2"	POLYETHYLENE	42+97.49	33.87'	LT	4.87'	2.37'	
VVH 52	EXPLORATORY - TRENCH LIMIT	N/A	N/A	43+94.19	56.24'	LT	3.48'		EDGE OF TRENCH, DUG TO 3' DUE TO WATER INTRUSION PROBED TO 10' - ALSO FOUND 2 CATV 3/8" SERVICE CABLES ABOUT 1" BELOW THE SURFACE
VVH 53	EXPLORATORY - TRENCH LIMIT	N/A	N/A	43+93.89	52.39'	LT	3.64'		CENTER OF TRENCH, DUG TO 3' DUE TO WATER INTRUSION PROBED TO 10' - ALSO FOUND 2 CATV 3/8" SERVICE CABLES ABOUT 1" BELOW THE SURFACE
VVH 54	EXPLORATORY - TRENCH LIMIT	N/A	N/A	43+93.78	48.26'	LT	3.07'		EDGE OF TRENCH, DUG TO 3' DUE TO WATER INTRUSION PROBED TO 10' - ALSO FOUND 2 CATV 3/8" SERVICE CABLES ABOUT 1" BELOW THE SURFACE
VVH 55	EXPLORATORY - TRENCH LIMIT	N/A	N/A	43+89.30	50.45'	LT	3.44'		EDGE OF TRENCH, DUG TO 2.5' DUE TO WATER INTRUSION PROBED TO 10'
VVH 56	EXPLORATORY - TRENCH LIMIT	N/A	N/A	43+89.03	46.83'	LT	2.82'		CENTER OF TRENCH, DUG TO 2.5' DUE TO WATER INTRUSION PROBED TO 10'
VVH 57	EXPLORATORY - TRENCH LIMIT	N/A	N/A	43+88.55	43.19'	LT	1.97'		EDGE OF TRENCH, DUG TO 2.5' DUE TO WATER INTRUSION PROBED TO 10'
VVH 58	SPECTRUM, FIBER OPTIC CABLE	2"	PVC	43+87.38	45.52'	LT	2.36'	-1.39'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 59	MANATEE COUNTY, FORCE MAIN	20"	HDPE	43+92.88	48.68'	LT	3.12'	-2.34'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 60	MANATEE COUNTY, FORCE MAIN	20"	HDPE	43+87.75	49.34'	LT	3.34'	-2.14'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 61	EXPLORATORY - TRENCH LIMIT	N/A	N/A	95+12.48	57.21'	LT	3.91'		EDGE OF TRENCH, DUG TO 2' DUE TO WATER INTRUSION PROBED TO 10'
VVH 62	EXPLORATORY - TRENCH LIMIT	N/A	N/A	95+12.58	53.63'	LT	3.98'		EDGE OF TRENCH, DUG TO 2' DUE TO WATER INTRUSION PROBED TO 10'
VVH 63	SPECTRUM, CABLE TV	6"	PVC	95+13.73	55.60'	LT	3.83'	2.07'	
VVH 64	FRONTIER, TELEPHONE	2"	POLYETHYLENE	94+61.18	41.46'	LT	4.84'	2.13'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 65	MANATEE COUNTY, FORCE MAIN	6"	PVC	94+60.98	32.68'	LT	5.42'	-0.20'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 66	MANATEE COUNTY ATMS, TRAFFIC SIGNAL	(2) 2"	PVC	94+60.85	42.28'	LT	4.78'	2.73'	
VVH 67	EXPLORATORY - TRENCH LIMIT	N/A	N/A	94+61.00	40.95'	LT	5.00'		EDGE OF TRENCH, DUG TO 3' DUE TO WATER INTRUSION PROBED TO 10'
VVH 68	EXPLORATORY - TRENCH LIMIT	N/A	N/A	94+60.96	37.90'	LT	5.35'		EDGE OF TRENCH, DUG TO 3' DUE TO WATER INTRUSION PROBED TO 10'
VVH 69	EXPLORATORY - TRENCH LIMIT	N/A	N/A	94+61.00	36.97'	LT	5.40'		EDGE OF TRENCH, DUG TO 3' DUE TO WATER INTRUSION PROBED TO 10'
VVH 70	EXPLORATORY - TRENCH LIMIT	N/A	N/A	94+60.97	33.92'	LT	5.43'		EDGE OF TRENCH, DUG TO 3' DUE TO WATER INTRUSION PROBED TO 10'
VVH 71	MANATEE COUNTY, FORCE MAIN	18"	D.I.	95+13.11	51.76'	LT	4.08'	1.08'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 72	EXPLORATORY - TRENCH LIMIT	N/A	N/A	93+80.60	41.38'	LT	5.25'		EDGE OF TRENCH, DUG TO 3' DUE TO WATER INTRUSION PROBED TO 10'
VVH 73	EXPLORATORY - TRENCH LIMIT	N/A	N/A	93+77.86	36.73'	LT	5.23'		EDGE OF TRENCH, DUG TO 3' DUE TO WATER INTRUSION PROBED TO 10'
VVH 74	MANATEE COUNTY ATMS, TRAFFIC SIGNAL	(4) 2"	PVC	93+79.28	41.39'	LT	5.22'	3.33'	
VVH 75	FRONTIER, FIBER OPTIC CABLE	(2) 2"	POLYETHYLENE	93+76.92	39.01'	LT	4.97'	1.85'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 76	MANATEE COUNTY, FORCE MAIN	6"	PVC	93+77.07	39.92'	LT	5.02'	-1.76'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 77	EXPLORATORY - TRENCH LIMIT	N/A	N/A	93+79.35	38.96'	LT	5.30'		CENTER OF TRENCH, DUG TO 3' DUE TO WATER INTRUSION PROBED TO 10'
VVH 78	MANATEE COUNTY, WATER	20"	C.I.	94+33.24	50.78'	LT	4.52'	-0.68'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 79	SPECTRUM, CABLE TV	6"	PVC	94+33.21	53.83'	LT	4.37'	2.07'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 80	EXPLORATORY - TRENCH LIMIT	N/A	N/A	94+31.89	52.81'	LT	4.61'		EDGE OF TRENCH, DUG TO 2' DUE TO WATER INTRUSION PROBED TO 10'
VVH 81	EXPLORATORY - TRENCH LIMIT	N/A	N/A	94+31.93	49.39'	LT	4.40'		EDGE OF TRENCH, DUG TO 2' DUE TO WATER INTRUSION PROBED TO 10'
VVH 82	EXPLORATORY - TRENCH LIMIT	N/A	N/A	96+84.99	52.12'	RT	8.80'		EDGE OF TRENCH, DUG TO 4' PROBED TO 10'
VVH 83	EXPLORATORY - TRENCH LIMIT	N/A	N/A	96+85.04	47.69'	RT	8.97'		EDGE OF TRENCH, DUG TO 4' PROBED TO 10'
VVH 84	UNKNOWN, UNKNOWN	3"	STEEL	96+86.81	49.81'	RT	8.97'	7.14'	NON TONEABLE
VVH 85	EXPLORATORY - TRENCH LIMIT	N/A	N/A	98+44.14	35.80'	RT	8.36'		EDGE OF TRENCH, DUG TO 4' PROBED TO 10' - SHIFTED TRENCH 2.5' TO WEST DUE TO WALL
VVH 86	EXPLORATORY - TRENCH LIMIT	N/A	N/A	98+44.10	31.12'	RT	9.40'		EDGE OF TRENCH, DUG TO 4' PROBED TO 10' - SHIFTED TRENCH 2.5' TO WEST DUE TO WALL
VVH 87	FDOT , ELECTRIC STREET LIGHTS	1 1/2"	PVC	98+46.30	30.58'	RT	9.40'	6.66'	
VVH 88	EXPLORATORY - TRENCH LIMIT	N/A	N/A	99+05.37	35.43'	RT	9.21'		EDGE OF TRENCH, DUG TO 4' PROBED TO 10'
VVH 89	EXPLORATORY - TRENCH LIMIT	N/A	N/A	99+05.67	31.01'	RT	10.14'		CENTER OF TRENCH, DUG TO 4' PROBED TO 10'
VVH 90	EXPLORATORY - TRENCH LIMIT	N/A	N/A	99+05.69	26.07'	RT	11.34'		EDGE OF TRENCH, DUG TO 4' PROBED TO 10'
VVH 91	FDOT, ELECTRIC STREET LIGHTS	1 1/2"	PVC	99+02.62	29.61'	RT	10.49'	8.06'	FOUND 3/8" CATV CABLE AT 0.2' OVER TOP OF STREET LIGHT
VVH 92	EXPLORATORY - TRENCH LIMIT	N/A	N/A	130+04.88	39.78'	RT	4.39'		EDGE OF TRENCH, DUG TO 3' DUE TO WATER INTRUSION PROBED TO 10'
VVH 93	EXPLORATORY - TRENCH LIMIT	N/A	N/A	130+05.17	36.02'	RT	4.93'		EDGE OF TRENCH, DUG TO 3' DUE TO WATER INTRUSION PROBED TO 10'
VVH 94	MANATEE COUNTY, STORM	18"	CONCRETE	130+03.34	37.06'	RT	4.61'	3.16'	FOUND 3/8" CATV CABLE AT 0.2' OVER TOP OF STORM DRAIN
VVH 95	MCI, FIBER OPTIC CABLE	(2) 2"	POLYETHYLENE	130+03.84	35.40'	RT	4.85'	-2.91'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 96	EXPLORATORY - TRENCH LIMIT	N/A	N/A	130+77.34	44.10'	RT	3.70'		EDGE OF TRENCH, DUG TO 2' DUE TO WATER INTRUSION PROBED TO 10'
VVH 97	EXPLORATORY - TRENCH LIMIT	N/A	N/A	130+77.24	41.65'	RT	3.73'		CENTER OF TRENCH, DUG TO 2' DUE TO WATER INTRUSION PROBED TO 10'
VVH 98	EXPLORATORY - TRENCH LIMIT	N/A	N/A	130+77.15	39.11'	RT	3.76'		EDGE OF TRENCH, DUG TO 2' DUE TO WATER INTRUSION PROBED TO 10'
VVH 99	FRONTIER, TELEPHONE	(4) 4"	PVC	130+79.43	44.19'	RT	3.47'	1.31'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 100	EXPLORATORY - TRENCH LIMIT	N/A	N/A	43+11.57	45.26'	RT	3.12'		EDGE OF TRENCH, DUG TO 2' DUE TO WATER INTRUSION PROBED TO 10'

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

VERIFIED UTILITY LOCATES

SHEET NO. 228

SUMMARY OF VERIFIED UTILITIES

Vvh #	UTILITY DESCRIPTION (Owner, type)	SIZE	MATERIALS	℄ SURVEY SR 684			EXISTING GROUND ELEVATION	TOP ELEVATION	COMMENTS
				STATION	OFFSET	LT/RT			
VVH 100	EXPLORATORY - TRENCH LIMIT	N/A	N/A	43+11.57	45.26'	RT	3.12'		EDGE OF TRENCH, DUG TO 2' DUE TO WATER INTRUSION PROBED TO 10'
VVH 101	EXPLORATORY - TRENCH LIMIT	N/A	N/A	43+11.66	42.63'	RT	3.36'		CENTER OF TRENCH, DUG TO 2' DUE TO WATER INTRUSION PROBED TO 10'
VVH 102	EXPLORATORY - TRENCH LIMIT	N/A	N/A	43+11.65	40.02'	RT	3.37'		EDGE OF TRENCH, DUG TO 2' DUE TO WATER INTRUSION PROBED TO 10'
VVH 103	FRONTIER, TELEPHONE	(4) 4"	PVC	43+13.49	43.85'	RT	3.21'	0.79'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 104	UNKNOWN, UNKNOWN	(2) 4"	PVC	43+13.64	41.37'	RT	3.27'	0.53'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 105	EXPLORATORY - TRENCH LIMIT	N/A	N/A	44+56.63	45.77'	RT	3.89'		EDGE OF TRENCH, DUG TO 2' DUE TO WATER INTRUSION PROBED TO 10'
VVH 106	EXPLORATORY - TRENCH LIMIT	N/A	N/A	44+56.76	41.82'	RT	3.92'		CENTER OF TRENCH, DUG TO 2' DUE TO WATER INTRUSION PROBED TO 10'
VVH 107	EXPLORATORY - TRENCH LIMIT	N/A	N/A	44+56.82	37.90'	RT	3.63'		EDGE OF TRENCH, DUG TO 2' DUE TO WATER INTRUSION PROBED TO 10'
VVH 108	MANATEE COUNTY, STORM	8"	PVC	44+58.31	39.91'	RT	3.55'	1.65'	
VVH 109	MCI, FIBER OPTIC CABLE	2"	POLYETHYLENE	44+58.52	40.51'	RT	3.62'	0.28'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 110	UNKNOWN, UNKNOWN	UNK	UNK	44+58.40	44.31'	RT	3.89'	-3.11'	ENCOUNTERED UNKNOWN OBSTRUCTION, UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 111	EXPLORATORY - TRENCH LIMIT	N/A	N/A	48+99.42	30.24'	RT	5.14'		EDGE OF TRENCH, DUG TO 4' PROBED TO 10'
VVH 112	EXPLORATORY - TRENCH LIMIT	N/A	N/A	48+99.23	33.83'	RT	3.93'		EDGE OF TRENCH, DUG TO 4' PROBED TO 10'
VVH 113	FRONTIER, TELEPHONE	(2) 4"	PVC	48+99.37	29.49'	RT	5.14'	1.34'	
VVH 114	UNKNOWN, UNKNOWN	UNK	UNK	98+46.16	30.95'	RT	9.29'	0.31'	ENCOUNTERED UNKNOWN OBSTRUCTION, UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 115	EXPLORATORY - TRENCH LIMIT	N/A	N/A	44+29.82	30.79'	LT	4.44'		CENTER OF TRENCH, DUG TO 3' DUE TO WATER INTRUSION PROBED TO 10'
VVH 116	EXPLORATORY - TRENCH LIMIT	N/A	N/A	44+30.00	27.33'	LT	4.57'		EDGE OF TRENCH, DUG TO 3' DUE TO WATER INTRUSION PROBED TO 10'
VVH 117	EXPLORATORY - TRENCH LIMIT	N/A	N/A	44+29.93	34.08'	LT	3.88'		EDGE OF TRENCH, DUG TO 3' DUE TO WATER INTRUSION PROBED TO 10'
VVH 118	FRONTIER, TELEPHONE	4"	PVC	44+30.87	28.62'	LT	4.53'	1.63'	
VVH 119	FRONTIER, FIBER OPTIC CABLE	1 1/2"	POLYETHYLENE	44+30.88	32.65'	LT	4.12'	1.52'	
VVH 120	FRONTIER, TELEPHONE	4"	PVC	43+16.60	28.91'	LT	4.72'	1.46'	
VVH 121	FRONTIER, FIBER OPTIC CABLE	1 1/2"	POLYETHYLENE	43+17.87	34.84'	LT	4.67'	1.67'	
VVH 122	MANATEE COUNTY, SANITARY	8"	VCP	43+19.48	36.40'	LT	4.65'	-2.01'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 123	MANATEE COUNTY, WATER	20"	C.I.	43+18.56	41.96'	LT	4.47'	0.93'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 124	FRONTIER, CATV FOC	4"	PVC	45+97.65	28.72'	LT	4.34'	0.76'	
VVH 125	MANATEE COUNTY, SANITARY	8"	VCP	44+29.12	33.65'	LT	3.94'	-2.20'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 126	EXPLORATORY - TRENCH LIMIT	N/A	N/A	96+67.76	52.47'	LT	3.78'		DUG TO 2.5' DUE TO WATER INTRUSION PROBED TO 7' DUE TO HARD PAN/ROCKS ACROSS BOTTOM OF TRENCH
VVH 127	EXPLORATORY - TRENCH LIMIT	N/A	N/A	96+67.61	50.23'	LT	4.15'		VVH-126 TO VVH-127 ENCOUNTERED RCP STORM PIPE AT 1', UNABLE TO PROBE DEEPER
VVH 128	EXPLORATORY - TRENCH LIMIT	N/A	N/A	96+68.39	55.40'	LT	3.58'		VVH-126 TO VVH-128 DUG TO 2.5' DUE TO WATER INTRUSION PROBED TO 7' DUE TO HARD PAN /ROCKS ACROSS BOTTOM OF TRENCH
VVH 129	MANATEE COUNTY, STORM	36" X 24"	RCP	96+66.30	51.12'	LT	3.96'	2.96'	SIZE PER RECORDS - WATER MAIN IS ASSUMED TO BE UNDER THE STORM DRAIN
VVH 130	SPECTRUM, CABLE TV	6"	PVC	96+68.98	55.55'	LT	3.57'	-0.41'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 131	FRONTIER, FIBER OPTIC CABLE	2 1/2"	POLYETHYLENE	96+65.58	49.10'	LT	4.24'	2.10'	
VVH 132	FRONTIER, TELEPHONE	4"	PVC	96+65.25	47.61'	LT	4.36'	2.10'	
VVH 133	MANATEE COUNTY, WATER	8"	PVC	100+05.05	16.99'	LT	2.84'	-0.16'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 134	FRONTIER, TELEPHONE	4"	PVC	100+04.69	16.89'	LT	2.83'	-0.69'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION - BOTH BT LINES ASSUMED TO BE IN CONDUIT
VVH 135	MANATEE COUNTY, FORCE MAIN	6"	C.I.	99+97.29	17.36'	LT	2.92'	-0.70'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 136	MANATEE COUNTY, FORCE MAIN	6"	PVC	46+09.02	33.15'	LT	4.08'	-3.04'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 137	EXPLORATORY - TRENCH LIMIT	N/A	N/A	95+12.16	46.00'	LT	3.78'		CENTER OF TRENCH, DUG TO 2' DUE TO WATER INTRUSION PROBED TO 10'
VVH 138	EXPLORATORY - TRENCH LIMIT	N/A	N/A	95+11.70	42.81'	LT	4.14'		EDGE OF TRENCH, DUG TO 2' DUE TO WATER INTRUSION PROBED TO 10'
VVH 139	EXPLORATORY - TRENCH LIMIT	N/A	N/A	95+11.96	49.49'	LT	3.72'		EDGE OF TRENCH, DUG TO 2' DUE TO WATER INTRUSION PROBED TO 10'
VVH 140	MANATEE COUNTY, WATER	20"	C.I.	95+12.52	47.64'	LT	3.78'	-1.58'	UNABLE TO VISUALLY VERIFY DUE TO WATER INTRUSION
VVH 141	SPECTRUM, CABLE TV	(2) 2"	PVC	95+13.13	45.83'	LT	3.80'	1.04'	
VVH 142	FRONTIER, FIBER OPTIC CABLE	2 1/2"	POLYETHYLENE	95+10.63	44.15'	LT	3.93'	1.03'	
VVH 143	FRONTIER, TELEPHONE	2"	PVC	95+13.14	43.78'	LT	4.00'	3.06'	
VVH 144	SPECTRUM, FIBER OPTIC CABLE	(3) 2"	POLYETHYLENE	43+91.10	29.36'	RT	4.57'	3.03'	
VVH 145	FRONTIER, TELEPHONE	2"	PVC	43+89.61	30.98'	RT	4.48'	2.24'	
VVH 146	FRONTIER, TELEPHONE	2"	DB CABLE	44+28.37	86.36'	RT	3.45'	1.15'	
VVH 147	FRONTIER, TELEPHONE	10" X 40"	CONCRETE DUCT BANK	45+97.42	29.04'	RT	4.30'	3.80'	CONCRETE DUCT BANK, 0.50' TO THE TOP AND 3.76' TO BOTTOM
VVH 148	EXPLORATORY - TRENCH LIMIT	N/A	N/A	49+58.59	29.80'	RT	5.19'		EDGE OF TRENCH, DUG TO 4' PROBED TO 10'
VVH 149	EXPLORATORY - TRENCH LIMIT	N/A	N/A	49+58.64	33.88'	RT	3.86'		EDGE OF TRENCH, DUG TO 4' PROBED TO 10'
VVH 150	FRONTIER, TELEPHONE	(2) 4"	PVC	49+58.57	28.87'	RT	4.87'	1.91'	

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

VERIFIED UTILITY LOCATES

SHEET NO. 229

SUMMARY OF LUMP SUM ITEMS

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

SUMMARY OF GENERAL ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	UNIT	QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0519 78	BOLLARDS	208+66.15 to 208+66.15	RT	EA	1		6		CL684	
		208+67.87 to 208+67.87	RT		1				CL684	
		208+70.09 to 208+70.09	RT		1				CL684	
		208+71.84 to 208+71.84	RT		1				CL684	
		208+74.02 to 208+74.02	RT		1				CL684	
		208+75.82 to 208+75.82	RT		1				CL684	

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE 1A DURATION DAYS	PHASE 1A QUANTITY P	PHASE 1A TOTAL P	PHASE 1B-1 DURATION DAYS	PHASE 1B-1 QUANTITY P	PHASE 1B-1 TOTAL P	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
102 1	MAINTENANCE OF TRAFFIC	LS										
102 14	TRAFFIC CONTROL OFFICER	HR				0.5	5	20	20			
102 60	WORK ZONE SIGN	ED	328	55	18040	109	130	14170	32784		PHASE 1A INCLUDES ADVANCE WARNING SIGNS 14 DAYS PRIOR TO CONST.	
		ED	14	41	574							
102 71 13	TEMPORARY BARRIER, F&I, LOW PROFILE, CONCRETE	LF		322	322		1330	1330	1652			
102 71 15	TEMPORARY BARRIER, F&I, ANCHORED	LF		2152	2152		2323	2323	4475			
102 71 16	TEMPORARY BARRIER, F&I, FREE STANDING	LF										
102 71 23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE, CONCRETE	LF					322	322	322			
102 71 25	TEMPORARY BARRIER, RELOCATE, ANCHORED	LF					25	25	25			
102 74 1	CHANNELIZING DEVICE - TYPES I, II, DI, VP, DRUM, OR LCD	ED	328	99	32472	109	96	10464	43216		INCLUDES PCMS 14 DAYS PRIOR TO CONST.	
		ED	14	12	168	14	8	112				
102 75 1	TEMPORARY LANE SEPARATOR, F&I, REMOVE	LF					209	209	209			
102 76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED				109	1	109	109			
102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	328	3	984	109	5	545	1599		INCLUDES PCMS 14 DAYS PRIOR TO CONST.	
		ED	14	3	42	14	2	28				
102 115	TYPE III BARRICADE	ED	328	7	2296	109	7	763	3059			
706 1 3	RAISED PAVEMENT MARKER, TYPE B	EA		231	231		1928	1928	2159			
710 11 101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM		0.260	0.260		1.108	1.108	1.368			
710 11 123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF					376	376	376			
710 11 125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF					123	123	123			
710 11 141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE / 6-10 DOTTED EXTENSION, 6"	GM					0.037	0.037	0.037			
710 11 160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	EA		5	5		3	3	8			
710 11 170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA		6	6		12	12	18			
710 11 201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM		0.202	0.202		1.136	1.136	1.338			
710 11 224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF					172	172	172			
710 11 231	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	GM										
710 11 241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE / 6-10 DOTTED EXTENSION, 6"	GM					0.064	0.064	0.064			

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO. SQ-1

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

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE 1B-2			PHASE 2			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL				
			DAYS	P	P	DAYS	P	P	P	F		
102 1	MAINTENANCE OF TRAFFIC	LS										
102 14	TRAFFIC CONTROL OFFICER	HR	0.5	5	20	0.5	5	20	40			
102 60	WORK ZONE SIGN	ED	109	160	17440	417	168	70056	87496			
102 71 13	TEMPORARY BARRIER, F&I, LOW PROFILE, CONCRETE	LF		222	222				222			
102 71 15	TEMPORARY BARRIER, F&I, ANCHORED	LF		107	107				107			
102 71 16	TEMPORARY BARRIER, F&I, FREE STANDING	LF										
102 71 23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE, CONCRETE	LF		82	82		24	24	106			
102 71 25	TEMPORARY BARRIER, RELOCATE, ANCHORED	LF					308	308	308			
102 74 1	CHANNELIZING DEVICE - TYPES I, II, DI, VP, DRUM, OR LCD	ED	109	88	9592	417	94	39198	49014		INCLUDES PCMS 14 DAYS PRIOR TO CONST.	
		ED	14	8	112	14	8	112				
102 75 1	TEMPORARY LANE SEPARATOR, F&I, REMOVE	LF					87	87	87			
102 76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	109	1	109				109			
102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	109	7	763	417	7	2919	3738		INCLUDES PCMS 14 DAYS PRIOR TO CONST.	
		ED	14	2	28	14	2	28				
102 115	TYPE III BARRICADE	ED	109	14	1526	417	19	7923	9449			
706 1 3	RAISED PAVEMENT MARKER, TYPE B	EA		20	20		1212	1212	1232			
710 11 101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM		0.033	0.033		2.070	2.070	2.103			
710 11 123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF					268	268	268			
710 11 125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF					109	109	109			
710 11 141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE / 6-10 DOTTED EXTENSION, 6"	GM					0.037	0.037	0.037			
710 11 160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	EA					1	1	1			
710 11 170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA					6	6	6			
710 11 201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM					1.751	1.751	1.751			
710 11 224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF										
710 11 231	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	GM										
710 11 241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE / 6-10 DOTTED EXTENSION, 6"	GM					0.100	0.100	0.100			

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE 3			PHASE 3-1			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL				
			DAYS	P	P	DAYS	P	P	P	F		
102 1	MAINTENANCE OF TRAFFIC	LS										
102 14	TRAFFIC CONTROL OFFICER	HR	0.5	25	100				100			
102 60	WORK ZONE SIGN	ED	132	51	6732	25	12	300	7032			
102 71 13	TEMPORARY BARRIER, F&I, LOW PROFILE, CONCRETE	LF										
102 71 15	TEMPORARY BARRIER, F&I, ANCHORED	LF										
102 71 16	TEMPORARY BARRIER, F&I, FREE STANDING	LF		320	320				320			
102 71 23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE, CONCRETE	LF		24	24				24			
102 71 25	TEMPORARY BARRIER, RELOCATE, ANCHORED	LF										
102 74 1	CHANNELIZING DEVICE - TYPES I, II, DI, VP, DRUM, OR LCD	ED	132	52	6864	25	44	1100	7964			
102 75 1	TEMPORARY LANE SEPARATOR, F&I, REMOVE	LF										
102 76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	132	1	132				132			
102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	132	3	396				396			
102 115	TYPE III BARRICADE	ED										
706 1 3	RAISED PAVEMENT MARKER, TYPE B	EA		752	752		369	369	1121			
710 11 101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM		1.988	1.988		0.172	0.172	2.160			
710 11 123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF		358	358				358			
710 11 125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF		55	55				55			
710 11 141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE / 6-10 DOTTED EXTENSION, 6"	GM					0.027	0.027	0.027			
710 11 160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	EA		3	3				3			
710 11 170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA		13	13		3	3	16			
710 11 201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM		1.913	1.913		0.250	0.250	2.163			
710 11 224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF		128	128				128			
710 11 231	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	GM					0.030	0.030	0.030			
710 11 241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE / 6-10 DOTTED EXTENSION, 6"	GM		0.047	0.047		0.033	0.033	0.080			

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO. SQ-2

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

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE 3-2			PHASE 3-3			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL				
			DAYS	P	P	DAYS	P	P	P	F		
102 1	MAINTENANCE OF TRAFFIC	LS										
102 14	TRAFFIC CONTROL OFFICER	HR										
102 60	WORK ZONE SIGN	ED	25	9	225	25	11	275	500			
102 71 13	TEMPORARY BARRIER, F&I, LOW PROFILE, CONCRETE	LF										
102 71 15	TEMPORARY BARRIER, F&I, ANCHORED	LF										
102 71 16	TEMPORARY BARRIER, F&I, FREE STANDING	LF										
102 71 23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE, CONCRETE	LF										
102 71 25	TEMPORARY BARRIER, RELOCATE, ANCHORED	LF										
102 74 1	CHANNELIZING DEVICE - TYPES I, II, DI, VP, DRUM, OR LCD	ED	25	56	1400	25	70	1750	3150			
102 75 1	TEMPORARY LANE SEPARATOR, F&I, REMOVE	LF										
102 76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED										
102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED										
102 115	TYPE III BARRICADE	ED	25	1	25	25	1	25	50			
706 1 3	RAISED PAVEMENT MARKER, TYPE B	EA		624	624		653	653	1277			
710 11 101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM		0.223	0.223		0.195	0.195	0.418			
710 11 123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF					247	247	247			
710 11 125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF		38	38		112	112	150			
710 11 141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE / 6-10 DOTTED EXTENSION, 6"	GM		0.039	0.039		0.035	0.035	0.074			
710 11 160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	EA										
710 11 170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA										
710 11 201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM		0.344	0.344		0.346	0.346	0.690			
710 11 224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF										
710 11 231	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	GM										
710 11 241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE / 6-10 DOTTED EXTENSION, 6"	GM		0.026	0.026		0.026	0.026	0.052			

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE 3-4			PHASE 3-5			GRAND TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL				
			DAYS	P	P	DAYS	P	P	P	F		
102 1	MAINTENANCE OF TRAFFIC	LS							1		TOTAL CONST. DURATION = 1095 DA	
102 14	TRAFFIC CONTROL OFFICER	HR							160			
102 60	WORK ZONE SIGN	ED	25	8	200	32	2	64	128076			
102 71 13	TEMPORARY BARRIER, F&I, LOW PROFILE, CONCRETE	LF							1874			
102 71 15	TEMPORARY BARRIER, F&I, ANCHORED	LF							4582			
102 71 16	TEMPORARY BARRIER, F&I, FREE STANDING	LF							320			
102 71 23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE, CONCRETE	LF							452			
102 71 25	TEMPORARY BARRIER, RELOCATE, ANCHORED	LF							333			
102 74 1	CHANNELIZING DEVICE - TYPES I, II, DI, VP, DRUM, OR LCD	ED	25	22	550				103894			
102 75 1	TEMPORARY LANE SEPARATOR, F&I, REMOVE	LF							296			
102 76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED							350			
102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED							5733			
102 115	TYPE III BARRICADE	ED							12558			
706 1 3	RAISED PAVEMENT MARKER, TYPE B	EA		401	401		32	32	6222			
710 11 101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM		0.197	0.197		0.083	0.083	6.329			
710 11 123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF		81	81		260	260	1590			
710 11 125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF		45	45		98	98	580			
710 11 141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE / 6-10 DOTTED EXTENSION, 6"	GM		0.027	0.027		0.028	0.028	0.230			
710 11 160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	EA							12			
710 11 170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA		4	4				44			
710 11 201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM		0.419	0.419		0.168	0.168	6.529			
710 11 224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF					99	99	399			
710 11 231	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	GM		0.239	0.239		0.093	0.093	0.362			
710 11 241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE / 6-10 DOTTED EXTENSION, 6"	GM		0.012	0.012				0.308			

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO.
SQ-3

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

SUMMARY OF SPECIAL DETOURS

TTC PHASE	LOCATION	SIDE	AREA ID	LENGTH	WIDTH	UNITS	SPECIAL DETOUR TEMPORARY PAVEMENT 0102 2200			SPECIAL DETOUR TEMPORARY EARTHWORK/BASE 0102 2300			PEDESTRIAN OR BICYCLE SPECIAL DETOUR 0102 4 1			DESIGN NOTES	CONSTRUCTION REMARKS
	STA. TO STA.						P	SY	F	P	CY	F	P	SY	F		
P1A	205+72.58 TO 210+76.58	RT	SD1	504		LS		602.0			200.7					AVG. DEPTH = 1 FT	
P1A	205+72.98 TO 210+76.58	RT	PBSD1	504		LS								444.6			
P1A	205+79.34 TO 206+78.17	LT	SD7	99		LS		57.7			19.2					AVG. DEPTH = 1 FT	
P1A	237+46.96 TO 244+22.02	RT	SD2	675		LS		1865.6			1206.4					AVG. DEPTH = 1.94 FT	
P1A	237+26.24 TO 239+37.34	RT	PBSD2	211		LS								124.2			
P1A	239+83.69 TO 244+28.66	RT	PBSD3	445		LS								249.8			
P1A	244+49.22 TO 246+21.28	RT	PBSD4	172		LS								96.1			
P1A	205+23.60 TO 206+48.58	LT	PBSD5	125		LS								51.5			
P1A	244+54.25 TO 246+19.42	RT	SD3	165		LS		312.0			436.8					AVG. DEPTH = 4.2 FT	
P1A	10+27.45 TO 11+75.00	LT/RT	SD4	148		LS		507.0			169.0					AVG. DEPTH = 1 FT	
P1B-1	205+11.83 TO 205+48.92	RT	SD6	37		LS		9.8			3.3					AVG. DEPTH = 1 FT	
P1B-1	205+21.46 TO 205+30.59	RT	PBSD6	9		LS								3.6			
P3-S1	249+18.68 TO 249+98.79	LT/RT	SD5	80		LS		92.9			31.0					AVG. DEPTH = 1 FT	
						TOTAL:	1	3,447		1	2,066		1	970			

COST OF TEMPORARY ASPHALT CONCRETE CURB IS INCLUDED IN THE COST TO CONSTRUCT PEDESTRIAN SPECIAL DETOUR NO. 1.

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO.
SQ-4

SUMMARY OF PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES

CONST. PHASE	LOCATION STA. TO STA.	SIDE	LENGTH	DAYS	QUANTITY 0102 74 8 FD P	QUANTITY 0102 74 8 FD F	DESIGN NOTES	CONSTRUCTION REMARKS
1A	205+22.65 TO 205+28.72	LT	6	328	1968			
1A	205+22.69 TO 206+86.05	LT	198	328	64944			
1A	205+48.27 TO 205+58.38	RT	60	328	19680			
1A	242+24.88 TO 244+34.88	LT	210	328	68880			
1A	246+16.79 TO 246+20.40	RT	6	328	1968			
1A	249+55.75 TO 249+55.75	RT	6	328	1968			
1A	249+55.75 TO 249+61.75	LT	6	328	1968			
1B-1	204+43.18 TO 204+48.91	LT	6	109	654			
1B-1	204+47.13 TO 204+48.91	LT	6	109	654			
1B-1	204+52.64 TO 204+79.07	LT/RT	84	109	9156			
1B-1	204+74.45 TO 204+80.18	RT	6	109	654			
1B-1	204+80.18 TO 204+81.96	RT	6	109	654			
1B-1	204+85.47 TO 204+91.01	LT	6	109	654			
1B-1	205+22.11 TO 205+28.09	RT	6	109	654			
1B-1	210+89.06 TO 210+94.70	RT	6	109	654			
1B-1	237+27.23 TO 239+36.07	RT	210	109	22890			
1B-1	239+86.42 TO 240+05.79	RT	24	109	2616			
1B-1	239+89.26 TO 240+03.79	RT	18	109	1962			
1B-1	245+86.84 TO 246+10.79	RT	24	109	2616			
1B-1	246+33.18 TO 246+33.21	LT	6	109	654			
1B-1	249+52.94 TO 249+58.94	RT	6	109	654			
1B-1	249+58.91 TO 249+58.94	LT	6	109	654			
1B-2	204+43.18 TO 204+48.91	LT	6	109	654			
1B-2	204+47.13 TO 204+48.91	LT	6	109	654			
1B-2	204+52.64 TO 204+79.07	LT/RT	84	109	9156			
1B-2	204+74.45 TO 204+80.18	RT	6	109	654			
1B-2	204+80.18 TO 204+81.96	RT	6	109	654			
1B-2	204+85.47 TO 204+91.01	LT	6	109	654			
1B-2	205+22.11 TO 205+28.09	RT	6	109	654			
1B-2	210+89.06 TO 210+94.70	RT	6	109	654			
1B-2	237+27.23 TO 239+36.07	RT	210	109	22890			
1B-2	239+86.42 TO 240+05.79	RT	24	109	2616			
1B-2	239+89.26 TO 240+03.79	RT	18	109	1962			
1B-2	245+86.84 TO 246+10.79	RT	24	109	2616			
1B-2	246+33.18 TO 246+33.21	LT	6	109	654			
1B-2	249+52.94 TO 249+58.94	RT	6	109	654			
1B-2	249+58.91 TO 249+58.94	LT	6	109	654			
2	204+71.97 TO 204+77.70	RT	6	417	2502			
2	204+75.90 TO 204+77.70	RT	6	417	2502			
2	204+83.31 TO 205+07.99	RT	78	417	32526			
2	205+01.50 TO 205+07.12	RT	6	417	2502			
2	205+07.12 TO 205+08.87	RT	6	417	2502			
2	205+28.83 TO 205+29.18	RT	6	417	2502			
2	205+29.18 TO 205+34.92	RT	6	417	2502			
2	205+43.67 TO 205+49.35	RT	6	417	2502			
				SUB-TOTAL:	302976			
				TOTAL:	405990			

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REVISIONS DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO. SQ-5

SUMMARY OF PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES

CONST. PHASE	LOCATION STA. TO STA.	SIDE	LENGTH	DAYS	QUANTITY 0102 74 8 FD P	QUANTITY 0102 74 8 FD F	DESIGN NOTES	CONSTRUCTION REMARKS
2	206+63.54 TO 206+63.55	LT	12	417	5004			
2	210+89.06 TO 210+94.70	RT	6	417	2502			
2	246+16.90 TO 246+21.46	RT	6	417	2502			
2	246+73.67 TO 246+73.73	RT	6	417	2502			
2	248+00.01 TO 248+00.07	RT	6	417	2502			
2	249+54.96 TO 249+60.96	LT	6	417	2502			
2	249+58.83 TO 249+58.86	RT	6	417	2502			
3	204+43.18 TO 204+43.18	LT	6	132	792			
3	204+47.13 TO 204+47.13	LT	6	132	792			
3	204+51.52 TO 205+07.99	LT/RT	180	132	23760			
3	204+85.47 TO 204+91.01	LT	6	132	792			
3	205+01.50 TO 205+07.12	RT	6	132	792			
3	205+07.12 TO 205+08.87	RT	6	132	792			
3	205+27.92 TO 205+33.84	LT	6	132	792			
3	210+19.30 TO 212+17.80	LT	198	132	26136			
3-1	244+09.68 TO 244+09.68	LT	6	25	150			
3-1	244+20.68 TO 244+20.68	RT	6	25	150			
3-1	251+36.47 TO 251+36.47	LT	6	25	150			
3-1	251+97.15 TO 251+97.15	RT	6	25	150			
3-2	244+17.63 TO 244+17.63	LT	6	25	150			
3-2	244+20.68 TO 244+20.68	RT	6	25	150			
3-2	245+16.47 TO 246+06.45	LT	90	25	2250			
3-2	246+96.98 TO 247+44.95	LT	48	25	1200			
3-2	248+26.40 TO 251+32.44	LT	306	25	7650			
3-2	251+97.15 TO 251+97.15	RT	6	25	150			
3-2	253+34.10 TO 253+34.10	LT	6	25	150			
3-3	244+15.82 TO 244+15.82	LT	6	25	150			
3-3	244+69.52 TO 244+69.52	RT	6	25	150			
3-3	244+72.88 TO 246+22.16	RT	150	25	3750			
3-3	246+52.08 TO 248+20.08	RT	168	25	4200			
3-3	248+59.49 TO 250+09.48	RT	150	25	3750			
3-3	250+60.32 TO 251+85.80	RT	126	25	3150			
3-3	251+97.15 TO 251+97.15	RT	6	25	150			
3-3	253+34.10 TO 253+34.10	LT	6	25	150			
3-4	245+95.40 TO 245+95.40	RT	6	25	150			
3-4	246+56.94 TO 246+56.94	LT	6	25	150			
3-4	251+91.96 TO 251+91.96	LT	6	25	150			
3-4	252+03.08 TO 252+03.08	RT	6	25	150			
				SUB-TOTAL:	103014			

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REVISIONS DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO. SQ-6

SUMMARY OF TEMPORARY SIGNALIZATION & DETECTION

PHASE	DURATION	0102104 TEMPORARY SIGNALS & MAINTENANCE OF INTERSECTION - EACH DAY						0102107 1 TEMPORARY TRAFFIC DETECTION & MAINTENANCE OF INTERSECTION - EACH DAY						DESIGN NOTES	CONSTRUCTION REMARKS
		EXISTING			TEMPORARY			EXISTING			TEMPORARY/NEW				
	DAYS	#	P	F	#	P	F	#	P	F	#	P	F		
IA	328	1	328					1	328					Maintain existing signal	
IB-1 - IB-2	218				1	218					1	218		Install temp detection and ped signals	
II	417				1	417					1	417		Install temp detection and ped signals	
III	132				1	132					1	132		Install temp detection , ped signals and complete signal work from final design	
SUB-TOTAL:			328			767			328			767			
TOTAL:						1095						1095			

SUMMARY OF TEMPORARY CRASH CUSHIONS

TTC PHASE	STATION	OFFSET (FT)	SIDE	WORK ZONE SPEED (MPH)	TEST LEVEL (TL-2 OR TL-3)	WIDTH OF HAZARD (IN)	LENGTH RESTRICTION (FT)	TEMPORARY CRASH CUSHION 0102 89 1		DESIGN NOTES	CONSTRUCTION REMARKS
								P	F		
1A	205+98.32	18.71	RT	35	TL-2	22.50		1			
1B	206+12.33	24.06	RT	30	TL-2	22.50		1			
1B	210+64.03	36.37	RT	30	TL-2	22.50		1			
1B	240+46.50	9.05	RT	30	TL-2	22.50		1			
2	206+30.82	13.76	RT	35	TL-2	22.50		1			
2	246+04.21	0.06	LT	30	TL-2	22.50		1			
3	213+32.59	20.75	LT	35	TL-2	22.50		1			
SUB-TOTAL:								7			
TOTAL:								7			

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO.
SQ-7

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION	SIDE	SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		SOIL TRACKING PREVENTION DEVICE		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
		0104 10 3		0104 11		0104 15		0104 18			
STA. TO STA.		LF		LF		EA		EA			
		P	F	P	F	P	F	P	F		
204+92.40 TO 211+62.13	LT	684.4								CL684	
205+44.45 TO 210+85.12	RT	648.8								CL684	
210+95.06 TO 211+52.17	RT	66.1								CL684	
239+07.49 TO 239+59.95	LT	53.3								CL684	
237+00.42 TO 239+07.49	LT/RT	281.0								CL684	
237+06.87 TO 239+14.56	RT	228.5								CL684	
239+25.86 TO 244+21.17	RT	502.7								CL684	
240+18.22 TO 242+20.62	LT	360.1								CL684	
244+07.93 TO 246+35.27	LT	227.3								CL684	
244+54.17 TO 246+25.28	RT	171.1								CL684	
31+00.38 TO 31+09.18	LT	8.8								CL125STW	
30+49.84 TO 31+23.45	RT	73.6								CL125STW	
30+50.16 TO 30+86.06	LT	35.9								CL125STW	
10+39.19 TO 15+84.99	RT	618.1								CL HUNTERS POINT WAY	
16+15.01 TO 16+73.16	RT	75.0								CL HUNTERS POINT WAY	
15+70.92 TO 16+99.81	LT	312.6								CL HUNTERS POINT WAY	
41+70.58 TO 42+22.24	LT	49.0								CL127STW	
41+48.29 TO 43+05.23	RT	164.2								CL127STW	
236+72.45 TO 238+01.68	LT/RT			313.5						CL684	
211+62.13 TO 212+00.26	LT/RT			142.8						CL684	
205+05.63 TO 205+05.63	LT/RT					1				CL684	
250+80.00 TO 250+80.00	LT/RT					1				CL684	
204+43.69 TO 204+43.69	LT							1		CL684	
204+83.99 TO 204+83.99	LT							1		CL684	
204+92.47 TO 204+92.47	RT							1		CL684	
205+39.71 TO 205+39.71	RT							1		CL684	
43+62.48 TO 43+62.48	LT							1		CL127STW	
SUB-TOTAL:		4560.5		456.3		2		5			
TOTAL:		4561		456		2		5			

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO.
SQ-8

SUMMARY OF LITTER REMOVAL AND MOWING

CONST. PHASE	LOCATION STA. TO STA.	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL 0107 1 AREA ID	CYCLES	AREA AC/CYCLE	TOTAL (AC) P	TOTAL (AC) F	MOWING 0107 2 AREA ID	CYCLES	AREA AC/CYCLE	TOTAL (AC) P	TOTAL (AC) F	DESIGN NOTES	CONSTRUCTION REMARKS
1-3	205+05.63 to 211+67.64	LT	1095	30	34096	37	0.568	20.732							CL684	
1-3	205+05.63 to 211+67.64	RT	1095	30	34073	37	0.798	29.127							CL684	
1-3	236+99.51 to 250+80.01	LT	1095	30	34111	37	1.192	43.508							CL684	
1-3	236+99.51 to 250+80.01	RT	1095	30	34126	37	1.648	60.152							CL684	
1-3	249+18.76 to 249+98.83	LT/RT	1095	30	34170	37	0.022	0.803							CL684	
1-3	10+52.83 to 17+02.63	LT	1095	30	34159	37	1.487	54.276							CL HUNTERS POINT WAY	
1-3	10+52.83 to 17+02.63	RT	1095	30	34151	37	0.370	13.505							CL HUNTERS POINT WAY	
1-3	40+18.39 to 42+01.66	LT	1095	30	34202	37	0.037	1.351							CL127STW	
1-3	40+18.39 to 42+01.66	RT	1095	30	34211	37	0.099	3.614							CL127STW	
1-3	30+50.00 to 31+03.45	LT	1095	30	34232	37	0.009	0.329							CL125STW	
1-3	30+50.00 to 31+03.45	RT	1095	30	34231	37	0.009	0.329							CL125STW	
1-3	192+11.65 to 194+30.00	LT	1095	30	34247	37	0.022	0.803							SR789	
1-3	192+11.65 to 194+30.00	RT	1095	30	34251	37	0.055	2.008							SR789	
1-3	205+05.63 to 211+67.64	LT	1095	30						34426	37	0.280	10.220		CL684	
1-3	205+05.63 to 211+67.64	RT	1095	30						34402	37	0.518	18.907		CL684	
1-3	236+99.51 to 250+80.01	LT	1095	30						34431	37	0.586	21.389		CL684	
1-3	236+99.51 to 250+80.01	RT	1095	30						34409	37	1.074	39.201		CL684	
1-3	249+18.76 to 249+98.83	LT/RT	1095	30						34441	37	0.014	0.511		CL684	
1-3	10+52.83 to 17+02.63	LT	1095	30						34469	37	1.394	50.881		CL HUNTERS POINT WAY	
1-3	10+52.83 to 17+02.63	RT	1095	30						34452	37	0.244	8.906		CL HUNTERS POINT WAY	
1-3	41+36.01 to 42+01.66	LT	1095	30						34483	37	0.013	0.475		CL127STW	
1-3	41+36.01 to 42+01.66	RT	1095	30						34485	37	0.007	0.256		CL127STW	
1-3	30+50.00 to 31+03.45	LT	1095	30						34495	37	0.006	0.219		CL125STW	
1-3	30+50.00 to 31+03.45	RT	1095	30						34494	37	0.009	0.329		CL125STW	
1-3	192+11.65 to 194+30.00	LT	1095	30						34510	37	0.007	0.256		SR789	
1-3	192+11.65 to 194+30.00	RT	1095	30						34514	37	0.041	1.497		SR789	
							SUB-TOTAL:	230.534				SUB-TOTAL:	153.045			
							TOTAL:	230.53				TOTAL:	153.04			

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REVISIONS DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO. SQ-9

SUMMARY OF MONITOR EXISTING STRUCTURES

SITE NO.	LOCATION ADDRESS AND/OR STA.	STRUCTURE USAGE	INSPECTION & SETTLEMENT MONITORING 0108 1 LS		VIBRATION MONITORING 0108 2 LS		DESIGN NOTES	CONSTRUCTION REMARKS
			P	F	P	F		
			X					
1	EXISTING BRIDGE NO. 130006	EXISTING BRIDGE			X			
2	501 GULF DRIVE NORTH	CONDOMINIUMS			X			
3	402 CHURCH AVENUE	MARINA			X			
4	403 HIGHLAND AVENUE	POLICE DEPARTMENT			X			
5	102 4TH STREET NORTH	HOUSE			X			
6	104 4TH STREET NORTH	HOUSE			X			
7	106 4TH STREET NORTH	HOUSE			X			
8	108 4TH STREET NORTH	HOUSE			X			
9	12507 CORTEZ ROAD WEST	RESTAURANT			X			
10	12507 CORTEZ ROAD WEST	COMMUNITY BUILDING			X			
11	12507 CORTEZ ROAD WEST UNIT 1	RV			X			
12	12507 CORTEZ ROAD WEST UNIT 2	MOBILE HOME			X			
13	12507 CORTEZ ROAD WEST UNIT 3	RV			X			
14	12507 CORTEZ ROAD WEST UNIT 4	MOBILE HOME			X			
15	12507 CORTEZ ROAD WEST UNIT 5	MOBILE HOME			X			
16	12507 CORTEZ ROAD WEST UNIT 6	MOBILE HOME			X			
17	12507 CORTEZ ROAD WEST UNIT 7	MOBILE HOME			X			
18	12507 CORTEZ ROAD WEST UNIT 8A	MOBILE HOME			X			
19	12507 CORTEZ ROAD WEST UNIT 8	MOBILE HOME			X			
20	12507 CORTEZ ROAD WEST UNIT 9	MOBILE HOME			X			
21	4327 127TH STREET WEST	BUILDING			X			
22	12518 CORTEZ ROAD WEST	BUSINESS			X			
23	4334 127TH STREET WEST	BUSINESS			X			
24	601 GULF DRIVE NORTH	CONDOMINIUMS			X			
25	115 6TH STREET NORTH UNIT A	CONDOMINIUMS			X			
		TOTAL:	1		1			

THIS LIST INCLUDES EXISTING STRUCTURES (AS DETERMINED BY THE DEPARTMENT) LOCATED OUTSIDE THE LIMITS SPECIFIED IN ARTICLE 108-2 OF THE FDOT SPECIFICATIONS THAT ARE REQUIRED TO BE MONITORED. THIS LIST SHOULD NOT BE CONSIDERED ALL INCLUSIVE AND DOES NOT CONTAIN EXISTING STRUCTURES TO BE MONITORED THAT ARE LOCATED WITHIN THE DISTANCES SPECIFIED IN ARTICLE 108-2.

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO.
SQ-10

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNITS	SECONDARY UNITS (IF LUMP SUM)	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.				AREA (AC)	P	F	P	F		
0110 1 1	CLEARING & GRUBBING				LS		1.0		1		5.67 TOTAL AC	
		204+85.23 to 204+92.55	LT	15732		0.001					CL684	
		204+89.93 to 207+65.27	LT	15770		0.048					CL684	
		204+93.73 to 205+30.27	LT	44895		0.009					CL684	
		205+09.26 to 205+33.20	RT	34887		0.003					CL684	
		205+21.68 to 206+87.00	LT	15758		0.083					CL684	
		205+30.02 to 205+60.82	RT	34943		0.007					CL684	
		205+36.65 to 205+38.80	RT	42786		0.001					CL684	
		205+45.33 to 207+50.00	RT	50887		0.179					CL684	
		205+80.78 to 205+96.98	RT	43032		0.001					CL684	
		206+00.94 to 206+05.80	RT	43021		0.001					CL684	
		206+83.50 to 207+50.00	LT	15778		0.028					CL684	
		207+50.00 to 208+18.04	LT	15842		0.033					CL684	
		207+50.00 to 211+16.22	RT	16264		0.373					CL684	
		207+50.00 to 209+80.25	LT	16344		0.068					CL684	
		207+50.00 to 209+07.56	RT	16357		0.126					CL684	
		207+95.60 to 208+26.04	LT	15785		0.001					CL684	
		208+02.82 to 208+64.13	RT	32411		0.011					CL684	
		208+17.32 to 208+88.19	LT	15921		0.047					CL684	
		208+20.56 to 208+62.60	RT	16365		0.003					CL684	
		208+22.44 to 211+67.96	LT	16244		0.105					CL684	
		208+75.35 to 209+68.42	RT	32416		0.015					CL684	
		208+75.90 to 209+15.94	RT	16326		0.012					CL684	
		208+86.27 to 211+18.58	LT	15933		0.222					CL684	
		210+96.11 to 211+82.85	RT	16252		0.155					CL684	
		237+00.42 to 239+84.67	RT	44779		0.201					CL684	
		237+01.34 to 239+68.53	LT	44611		0.181					CL684	
		237+03.89 to 239+64.38	RT	44844		0.163					CL684	
		240+19.37 to 243+00.00	LT	16572		0.107					CL684	
		240+30.50 to 243+00.00	RT	16507		0.143					CL684	
		240+30.50 to 243+00.00	RT	16526		0.137					CL684	
		240+30.50 to 243+00.00	LT	16549		0.135					CL684	
		241+51.93 to 241+97.45	LT	32755		0.004					CL684	
		241+56.53 to 241+97.32	RT	32749		0.003					CL684	
		242+02.22 to 242+48.01	RT	32768		0.004					CL684	
		242+02.26 to 242+43.62	LT	32762		0.003					CL684	
		243+00.00 to 245+60.00	LT	16607		0.120					CL684	
		243+00.00 to 245+60.00	LT	16601		0.150					CL684	
		243+00.00 to 245+60.00	RT	16591		0.147					CL684	
		243+00.00 to 244+02.87	RT	16585		0.047					CL684	
		244+72.88 to 245+60.00	RT	16642		0.040					CL684	
		245+60.00 to 246+29.23	RT	16648		0.038					CL684	
		245+60.00 to 246+35.79	LT	31055		0.043					CL684	
		249+15.00 to 250+02.00	LT	16674		0.025					CL684	
		249+15.00 to 250+02.00	RT	16685		0.027					CL684	
		249+20.58 to 249+55.55	LT	32819		0.003					CL684	
		249+25.32 to 249+55.61	RT	32813		0.002					CL684	
		249+61.48 to 249+92.44	LT	32826		0.002					CL684	
		249+61.48 to 249+96.84	RT	32832		0.003					CL684	
		10+25.60 to 17+02.63	RT	16728		0.539					CL HUNTERS POINT WAY	
		10+52.83 to 17+12.29	LT	43918		1.542					CL HUNTERS POINT WAY	

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO. SQ-11

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

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	RT	AREA ID	UNITS	SECONDARY UNITS (IF LUMP SUM)	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.				AREA (AC)	P	F	P	F		
0110 1 1	CLEARING AND GRUBBING (CONT'D)	39+61.55 to 42+01.66	LT	16404		0.061					CL127STW	
		40+18.39 to 40+98.46	RT	40400		0.089					CL127STW	
		40+95.34 to 43+06.76	RT	20261		0.103					CL127STW	
		41+49.70 to 41+75.71	LT	40016		0.003					CL127STW	
		30+22.67 to 31+03.45	RT	22135		0.040					CL125STW	
		30+23.00 to 31+03.45	LT	37451		0.037					CL125STW	
		30+93.67 to 30+95.71	LT	50774		0.001					CL125STW	
		31+00.38 to 31+03.45	LT	37471		0.001					CL125STW	
0110 4 10	REMOVAL OF EXISTING CONCRETE	204+91.09 to 210+79.04	LT/RT	13923	SY		128.3		2919		CL684; CURB AND GUTTER	
		205+09.59 to 205+49.08	RT	13844			8.8				CL684; CURB AND GUTTER	
		205+09.59 to 205+49.08	RT	13860			15.5				CL684; CURB AND GUTTER	
		205+11.44 to 205+47.05	RT	13887			67.8				CL684; PEDESTRIAN ISLAND	
		205+13.76 to 205+26.80	LT	43266			15.9				CL684; SIDEWALK	
		205+28.97 to 211+24.40	LT/RT	43239			391.2				CL684; SIDEWALK	
		205+38.62 to 205+81.03	RT	50829			14.7				CL684; CURB AND GUTTER	
		205+40.34 to 210+96.45	RT	50796			351.3				CL684; SIDEWALK	
		205+96.88 to 210+76.58	RT	43121			104.2				CL684; CURB AND GUTTER	
		206+78.16 to 210+99.55	LT/RT	13965			237.5				CL684; SIDEWALK	
		208+05.86 to 208+25.59	LT	14013			19.2				CL684; CONCRETE SLAB	
		208+39.52 to 208+57.44	RT	22460			9.1				CL684; CURB AND GUTTER	
		208+62.35 to 208+89.21	RT	13790			18.7				CL684; DRIVEWAY	
		208+84.37 to 208+91.04	LT	14016			5.4				CL684; CONCRETE SLAB	
		208+87.16 to 209+08.31	RT	13810			6.1				CL684; CURB AND GUTTER	
		209+12.32 to 209+17.51	RT	14019			3.0				CL684; SANITARY MANHOLE	
		209+68.42 to 210+99.69	RT	32448			287.2				CL684; CONCRETE SLAB	
		237+32.92 to 239+67.13	LT/RT	14074			158.8				CL684; SIDEWALK	
		237+37.36 to 239+64.38	RT	14141			153.0				CL684; SIDEWALK	
		237+43.79 to 239+70.46	LT/RT	14056			53.6				CL684; CURB AND GUTTER	
		237+46.96 to 239+64.38	RT	14096			48.2				CL684; CURB AND GUTTER	
		240+01.90 to 240+45.83	LT	14157			15.1				CL684; CURB AND GUTTER	
		240+21.14 to 244+20.36	RT	14298			226.2				CL684; SIDEWALK	
		240+29.70 to 246+24.50	LT	30365			338.6				CL684; SIDEWALK	
		241+49.65 to 242+49.88	LT	14188			21.0				CL684; CURB AND GUTTER	
		241+50.57 to 242+49.15	LT/RT	14253			22.3				CL684; CURB AND GUTTER	
		241+50.57 to 242+49.15	LT/RT	14273			22.1				CL684; CURB AND GUTTER	
		241+51.05 to 242+49.79	RT	14330			22.9				CL684; CURB AND GUTTER	
		241+74.31 to 241+89.68	RT	14312			1.1				CL684; CURB	
		241+89.67 to 242+11.11	RT	14321			1.2				CL684; CURB	
		241+97.32 to 242+02.26	LT/RT	14293			4.4				CL684; PEDESTRIAN REFUGE	
		244+57.16 to 246+17.33	RT	14399			91.3				CL684; SIDEWALK	
		246+32.71 to 246+37.30	LT	33438			1.6				CL684; CURB AND GUTTER	
		249+19.34 to 249+97.42	LT/RT	14409			16.7				CL684; CURB AND GUTTER	
		249+19.34 to 249+97.42	LT/RT	14423			18.6				CL684; CURB AND GUTTER	
		249+55.50 to 249+61.48	LT/RT	14437			5.3				CL684; PEDESTRIAN REFUGE	
		30+82.22 to 31+03.45	LT	37432			6.7				CL125STW; DRIVEWAY	
		30+85.28 to 31+00.89	LT	37441			6.0				CL125STW; DRIVEWAY	

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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO.
SQ-12

SUMMARY OF EARTHWORK

PAY ITEM NO.	PAY ITEM DESCRIPTION	CY P	CY F	DESIGN NOTES	CONSTRUCTION REMARKS
0120 1	REGULAR EXCAVATION	14449.0		TOTAL	
		8251.00		SR 684	
		5170.00		HUNTERS POINT WAY	
		994.00		127th ST W	
		34.00		125th ST W	
0120 6	EMBANKMENT	23249.0		TOTAL	
		21155.00		SR 684	
		1994.00		HUNTERS POINT WAY	
		58.00		127th ST W	
		42.00		125th ST W	

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REVISIONS			
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WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO.
SQ-13

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		
0160 4	TYPE B STABILIZATION	204+85.23 to 207+50.00		LT	23550			SY	284.7		9965		CL684	
		205+09.26 to 205+50.00		RT	24158				48.2				CL684	
		205+36.65 to 207+50.00		RT	27173				213.0				CL684	
		207+50.00 to 210+73.50		LT	15087				1033.0				CL684	
		207+50.00 to 210+73.76		RT	27253				954.8				CL684	
		210+73.24 to 211+03.50		LT	27939				73.3				CL684	
		210+73.50 to 211+03.50		RT	27944				73.3				CL684	
		240+34.00 to 240+64.00		LT	27951				89.2				CL684	
		240+34.00 to 240+64.00		RT	27956				90.5				CL684	
		240+64.00 to 243+00.00		RT	15119				650.2				CL684	
		240+64.00 to 243+00.00		LT/RT	27318				653.2				CL684	
		243+00.00 to 245+60.00		LT/RT	27328				729.3				CL684	
		243+00.00 to 245+60.00		LT/RT	14995				736.8				CL684	
		245+60.00 to 246+37.30		LT	26382				54.2				CL684	
		245+60.00 to 246+29.23		RT	7975				53.2				CL684	
		249+15.00 to 250+02.00		LT/RT	15052				155.4				CL684	
		249+15.00 to 250+02.00		LT	15038				148.2				CL684	
		10+15.28 to 17+02.63		LT/RT	8043				1541.9				CL HUNTERS POINT WAY	
		10+26.41 to 17+12.29		LT/RT	8076				1380.7				CL HUNTERS POINT WAY	
		39+84.44 to 42+01.66		LT/RT	27293				349.3				CL127STW	
		40+18.39 to 42+01.66		LT/RT	8145				433.9				CL127STW	
		41+49.70 to 41+75.71		LT	27285				12.4				CL127STW	
		30+26.07 to 31+03.45		RT	24173				99.3				CL125STW	
		30+26.33 to 31+03.45		LT	24193				106.8				CL125STW	
285706	OPTIONAL BASE, BASE GROUP 06	204+85.23 to 207+50.00		LT	23681			SY	223.8		9079		CL684	
		205+09.26 to 205+50.00		RT	24696				48.2				CL684	
		205+22.82 to 205+60.82		RT	24707				18.8				CL684	
		205+36.65 to 207+50.00		RT	24573				151.1				CL684	
		207+50.00 to 210+73.50		LT	27728				1033.0				CL684	
		207+50.00 to 210+73.76		RT	27736				897.9				CL684	
		210+73.24 to 211+03.50		LT	27963				73.3				CL684	
		210+73.50 to 211+03.50		RT	27968				73.3				CL684	
		240+34.00 to 240+64.00		LT	27975				89.2				CL684	
		240+34.00 to 240+64.00		RT	27980				90.5				CL684	
		240+64.00 to 243+00.00		LT/RT	16805				626.0				CL684	
		240+64.00 to 243+00.00		RT	16814				650.2				CL684	
		243+00.00 to 245+60.00		LT/RT	9647				680.8				CL684	
		243+00.00 to 245+60.00		LT/RT	9658				666.9				CL684	
		245+60.00 to 246+07.13		LT	27536				31.4				CL684	
		245+60.00 to 246+29.23		RT	9680				33.3				CL684	
		249+15.00 to 250+02.00		LT/RT	15224				129.2				CL684	
		249+15.00 to 250+02.00		LT	15214				122.0				CL684	
		10+18.13 to 17+02.63		LT/RT	9699				1258.7				CL HUNTERS POINT WAY	
		10+26.41 to 17+11.55		LT/RT	9711				1208.3				CL HUNTERS POINT WAY	
		15+75.62 to 16+24.38		RT	15187				72.7				CL HUNTERS POINT WAY	
		40+18.39 to 42+01.66		LT/RT	9749				394.1				CL127STW	
		40+18.39 to 42+01.66		LT/RT	20392				323.7				CL127STW	
		30+26.00 to 31+03.45		LT/RT	20377				91.4				CL125STW	
		30+26.00 to 31+03.45		LT/RT	18991				90.9				CL125STW	
0327 70 1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	245+60.00 to 246+07.13		LT/RT	13202			SY	94.3		183		CL684	
		245+60.00 to 246+07.13		LT/RT	13207				89.0				CL684	

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO.
SQ-14

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		
0327 70 5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	204+50.00 to 207+20.00		LT/RT	21991			SY	887.8		4279		CL684	
		204+70.20 to 207+20.00		LT/RT	24849				765.7				CL684	
		204+75.47 to 205+33.89		LT	20455				128.4				CL684	
		205+23.21 to 205+89.57		RT	24896				125.8				CL684	
		207+20.00 to 207+50.00		LT/RT	20545				65.2				CL684	
		207+20.00 to 207+50.00		LT	20553				77.9				CL684	
		246+07.13 to 250+80.01		RT	25176				1244.7				CL684	
		246+07.13 to 250+80.01		LT	25158				983.8				CL684	
0334 1 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	204+75.47 to 205+33.89		LT	N/A			TN	11.80		978.7		NE RETURN OVERBUILD	
		204+85.23 to 207+50.00		LT	23741				24.61				CL684	
		205+09.26 to 205+50.00		RT	25264				3.04				CL684	
		205+23.21 to 205+71.25		RT	N/A				2.65				SE RETURN OVERBUILD	
		205+36.65 to 207+50.00		RT	25275				16.62				CL684	
		207+20.00 to 207+50.00		LT/RT	N/A				5.78				CL684 OVERBUILD	
		207+50.00 to 210+73.50		LT	27749				113.63				CL684	
		207+50.00 to 210+73.76		RT	27757				98.77				CL684	
		240+64.00 to 243+00.00		RT	11542				71.52				CL684	
		240+64.00 to 243+00.00		LT	11902				68.86				CL684	
		243+00.00 to 245+60.00		RT	11928				73.36				CL684	
		243+00.00 to 245+60.00		LT/RT	11917				74.88				CL684	
		245+60.00 to 246+07.13		LT	25365				3.46				CL684	
		245+60.00 to 246+29.23		RT	25543				3.66				CL684	
		249+15.00 to 250+02.00		LT	15395				13.42				CL684	
		249+15.00 to 250+02.00		LT/RT	15405				14.21				CL684	
		10+18.13 to 17+02.63		LT/RT	11968				138.46				CL HUNTERS POINT WAY	
		10+26.41 to 17+11.55		LT/RT	11980				132.91				CL HUNTERS POINT WAY	
		15+75.62 to 16+24.38		RT	15418				8.00				CL HUNTERS POINT WAY	
		40+18.39 to 42+01.66		LT/RT	12018				43.35				CL127STW	
		40+18.39 to 42+01.66		LT	20610				35.61				CL127STW	
		30+25.78 to 31+03.45		LT/RT	19040				10.00				CL125STW	
		30+26.00 to 31+03.45		LT/RT	19046				10.05				CL125STW	
0337 7 81	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC B, FC-12.5, PG 76-22	204+50.00 to 207+50.00		LT/RT	23801			TN	143.56		1102.6		CL684	
		204+70.20 to 205+42.13		LT/RT	25683				52.71				CL684	
		205+42.13 to 207+50.00		LT/RT	25704				73.59				CL684	
		207+50.00 to 210+73.50		LT	27852				113.63				CL684	
		207+50.00 to 210+73.76		RT	27860				98.77				CL684	
		210+73.24 to 211+01.50		LT	27885				7.53				CL684	
		210+73.50 to 211+01.50		RT	27890				7.53				CL684	
		240+36.00 to 240+64.00		LT	27926				9.14				CL684	
		240+36.00 to 240+64.00		RT	27931				9.28				CL684	
		240+64.00 to 243+00.00		LT	27909				68.86				CL684	
		240+64.00 to 243+00.00		RT	27917				71.52				CL684	
		243+00.00 to 245+60.00		LT/RT	12659				73.09				CL684	
		243+00.00 to 245+60.00		LT/RT	12670				73.36				CL684	
		245+60.00 to 250+80.01		LT/RT	13004				150.95				CL684	
		245+60.00 to 250+80.01		LT/RT	25816				121.46				CL684	
		249+15.00 to 250+02.00		LT/RT	15468				14.21				CL684	
		249+15.00 to 250+02.00		LT	15458				13.42				CL684	

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO.
SQ-15

SUMMARY OF MISCELLANEOUS ASPHALT PAVEMENT

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	THICK (IN)	UNDER GUARDRAIL 0339 1 TN P	UNDER GUARDRAIL 0339 1 TN F	DESIGN NOTES	CONSTRUCTION REMARKS
206+27.94 to 207+10.00	LT	22346				2.11		CL684	
207+22.55 to 208+55.84	RT	21169				4.29		CL684	
208+87.44 to 209+58.65	RT	21182				1.78		CL684	
211+10.65 to 211+38.20	LT/RT	20653				8.43		CL684	
236+99.36 to 237+79.75	RT	16705				31.47		CL684	
236+99.51 to 237+79.75	LT	16696				25.31		CL684	
237+79.75 to 239+40.75	LT	16718				67.34		CL684	
237+79.75 to 239+40.75	RT	16732				68.88		CL684	
239+40.49 to 239+66.63	RT	16754				10.73		CL684	
239+40.75 to 239+67.95	LT	16745				11.64		CL684	
240+09.12 to 240+26.75	LT/RT	28696				14.47		CL684	
242+00.00 to 243+09.38	LT	21201				3.19		CL684	
242+83.00 to 243+39.12	LT	20670				4.92		CL684	
243+16.85 to 243+66.00	RT	21209				1.37		CL684	
30+47.41 to 30+77.06	RT	20635				0.90		CL125STW	
30+48.12 to 30+77.05	LT	20641				0.85		CL125STW	
					SUB-TOTAL:	257.68			
					TOTAL:	257.7			
					GRAND TOTAL:	257.7			

SUMMARY OF RAILING

LOCATION STA. TO STA.	SIDE	PIPE HANDRAIL - GUIDERAIL, ALUMINUM 0515 1 2 LF P	PIPE HANDRAIL - GUIDERAIL, ALUMINUM 0515 1 2 LF F	PEDESTRIAN / BICYCLE RAILING, ALUMINUM, CUSTOM INFILL PANELS 0515 2 720 LF P	PEDESTRIAN / BICYCLE RAILING, ALUMINUM, CUSTOM INFILL PANELS 0515 2 720 LF F	CONDUIT, FURNISH & INSTALL, OPEN TRENCH 0630 2 11 LF P	CONDUIT, FURNISH & INSTALL, OPEN TRENCH 0630 2 11 LF F	DESIGN NOTES	CONSTRUCTION REMARKS
41+89.12 to 41+97.42	RT	9.0						CL127STW	
243+23.51 to 243+63.00	RT			42.1				CL684 - TYPE 1 TO BE MODIFIED TO INCLUDE WAVE PATTERN	
207+80.00 to 210+73.80	RT					303.4		ONE 1.50" DIA. FUTURE USE CONDUIT	
240+64.00 to 243+80.00	RT					317.1		ONE 1.50" DIA. FUTURE USE CONDUIT	
	SUB-TOTAL:	9.0		42.1		620.5			
	TOTAL:	9		42		621			

SUMMARY OF PERMANENT BARRIERS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	UNIT	QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0521 72 40	SHOULDER CONCRETE BARRIER, 38" OR 44" HEIGHT	207+10.00 to 208+00.00	LT	LF	88.8		864		CL684	
		208+00.00 to 210+73.22	LT		270.3				CL684	
		209+58.61 to 210+73.77	RT		116.3				CL684	
		240+64.00 to 240+95.03	LT		31.1				CL684	
		240+64.00 to 241+55.02	RT		91.0				CL684	
		240+95.03 to 242+00.00	LT		105.0				CL684	
		241+55.02 to 243+16.85	RT		161.8				CL684	
0521 72 43	SHOULDER CONCRETE BARRIER, CURB & GUTTER BARRIER	30+47.40 to 30+77.02	RT	LF	29.6		59		CL125STW	
		30+48.11 to 30+77.01	LT		28.9				CL125STW	

REVISIONS DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO. SQ-16

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

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY GROSS LENGTH	QUANTITY DEDUCTIONS TYPE	QUANTITY DEDUCTIONS LENGTH	QUANTITY NET LENGTH P	QUANTITY NET LENGTH F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0520 1 7	CONCRETE CURB & GUTTER, TYPE E	205+14.61 to 205+16.52	RT		LF	3.7			3.7		501		CL684	
		205+14.61 to 205+24.25	RT			33.7			33.7				CL684	
		205+16.52 to 205+59.60	RT			43.2			43.2				CL684	
		205+24.25 to 205+27.01	RT			3.6			3.6				CL684	
		205+27.01 to 205+60.21	RT			47.3			47.3				CL684	
		205+59.60 to 205+60.21	RT			4.1			4.1				CL684	
		207+22.55 to 207+53.52	RT			31.3		1.4	30.0				CL684	
		207+53.51 to 207+72.60	RT			19.3			19.3				CL684	
		208+87.42 to 209+37.52	RT			50.6			50.6				CL684	
		242+58.77 to 243+09.38	LT			50.6		0.1	50.5				CL684	
		249+21.03 to 249+21.76	LT			3.9			3.9				CL684	
		249+21.03 to 249+44.74	LT/RT			24.8			24.8				CL684	
		249+21.76 to 249+54.47	LT			32.7			32.7				CL684	
		249+44.74 to 249+54.47	RT			9.7			9.7				CL684	
		249+54.47 to 249+55.47	LT			1.6			1.6				CL684	
		249+54.47 to 249+55.47	RT			1.6			1.6				CL684	
		249+55.47 to 249+55.47	LT/RT			7.0			7.0				CL684	
		249+61.47 to 249+61.47	LT/RT			7.0			7.0				CL684	
		249+61.47 to 249+62.47	LT			1.6			1.6				CL684	
		249+61.47 to 249+62.47	RT			1.6			1.6				CL684	
		249+62.47 to 249+72.85	LT			10.4			10.4				CL684	
		249+62.47 to 249+95.83	RT			33.4			33.4				CL684	
		249+72.85 to 249+96.56	LT/RT			24.8			24.8				CL684	
		249+95.83 to 249+96.56	RT			3.9			3.9				CL684	
		40+72.83 to 41+08.79	LT			36.0			36.0				CL127STW	
		41+08.79 to 41+24.59	LT			14.7			14.7				CL127STW	
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	204+89.43 to 204+92.21	LT		LF	7.9			7.9		2767		CL684	
		204+92.21 to 205+33.89	LT			49.4			49.4				CL684	
		205+33.89 to 205+90.84	LT			56.6		10.5	46.1				CL684	
		205+40.13 to 207+22.55	RT			207.1		19.6	187.5				CL684	
		205+90.84 to 206+71.10	LT			79.3		10.5	68.8				CL684	
		206+71.10 to 206+71.99	LT			0.9			0.9				CL684	
		206+71.99 to 207+10.00	LT			37.6			37.6				CL684	
		207+72.60 to 208+55.77	RT			84.1			84.1				CL684	
		208+55.77 to 208+61.69	RT			6.0			6.0				CL684	
		208+61.69 to 208+81.48	RT			20.0			20.0				CL684	
		208+81.48 to 208+87.42	RT			6.0			6.0				CL684	
		209+37.52 to 209+58.59	RT			21.3			21.3				CL684	
		242+00.00 to 242+58.77	LT			58.8			58.8				CL684	
		243+09.38 to 243+23.03	LT			13.6		10.4	3.2				CL684	
		243+16.85 to 244+02.87	RT			86.0		10.5	75.5				CL684	
		243+23.03 to 243+45.27	LT			44.6			44.6				CL684	
		243+87.43 to 244+09.67	LT			29.2			29.2				CL684	
		244+09.67 to 245+16.47	LT			106.8			106.8				CL684	
		244+72.88 to 246+02.67	RT			129.8		10.5	119.3				CL684	
		245+16.47 to 246+07.11	LT			90.6		10.5	80.1				CL684	
		246+02.67 to 246+23.97	RT			26.7			26.7				CL684	
		246+07.11 to 246+35.83	RT			40.3			40.3				CL684	

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REVISIONS DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO. SQ-17

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY GROSS LENGTH	DEDUCTIONS TYPE	DEDUCTIONS LENGTH	NET LENGTH P	NET LENGTH F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0520 1 10	CONCRETE CURB & GUTTER, TYPE F (CONT'D)	246+23.97 to 246+24.80	RT			6.0			6.0				CL684	
		10+36.73 to 12+77.38	RT			240.6			240.6				CL HUNTERS POINT WAY	
		10+64.70 to 15+37.58	LT			441.2			441.2				CL HUNTERS POINT WAY	
		12+77.38 to 15+30.56	RT			284.8		6.6	278.2				CL HUNTERS POINT WAY	
		15+30.56 to 15+64.00	RT			33.4		3.9	29.5				CL HUNTERS POINT WAY	
		15+37.58 to 16+87.32	LT			149.8		10.5	139.3				CL HUNTERS POINT WAY	
		15+64.00 to 15+85.70	RT			29.3			29.3				CL HUNTERS POINT WAY	
		15+85.50 to 15+85.70	RT			6.0			6.0				CL HUNTERS POINT WAY	
		16+14.30 to 16+14.50	RT			6.0			6.0				CL HUNTERS POINT WAY	
		16+14.30 to 16+36.00	RT			29.3			29.3				CL HUNTERS POINT WAY	
		16+36.00 to 16+66.41	RT			30.4		10.5	19.9				CL HUNTERS POINT WAY	
		16+66.41 to 16+89.23	RT			42.6			42.6				CL HUNTERS POINT WAY	
		16+86.89 to 16+88.52	RT			7.0			7.0				CL HUNTERS POINT WAY	
		16+87.32 to 17+10.10	LT			31.1			31.1				CL HUNTERS POINT WAY	
		16+88.52 to 16+89.23	RT			3.0			3.0				CL HUNTERS POINT WAY	
		17+10.10 to 17+10.81	LT			3.0			3.0				CL HUNTERS POINT WAY	
		39+84.74 to 40+21.16	LT			37.2			37.2				CL127STW	
		40+21.16 to 40+66.33	LT			21.9			21.9				CL127STW	
		40+33.76 to 40+35.55	RT			3.1			3.1				CL127STW	
		40+35.55 to 40+38.63	RT			5.3			5.3				CL127STW	
		40+38.63 to 40+56.93	RT			30.7			30.7				CL127STW	
		40+56.93 to 41+08.79	RT			53.4			53.4				CL127STW	
		40+66.33 to 40+72.83	LT			6.5			6.5				CL127STW	
		41+08.79 to 41+43.47	RT			37.1			37.1				CL127STW	
		41+24.59 to 41+42.08	LT			16.3			16.3				CL127STW	
		41+42.08 to 41+50.57	LT			7.9			7.9				CL127STW	
		41+43.47 to 41+57.96	RT			17.4			17.4				CL127STW	
		41+57.96 to 41+61.99	RT			6.4			6.4				CL127STW	
		30+24.17 to 30+47.40	RT			36.4			36.4				CL125STW	
		30+24.85 to 30+48.11	LT			37.4			37.4				CL125STW	
		30+77.01 to 30+78.07	LT			1.1			1.1				CL125STW	
		30+77.02 to 30+78.71	RT			1.7			1.7				CL125STW	
		30+78.07 to 30+84.41	LT			8.6			8.6				CL125STW	
		30+78.71 to 30+84.73	RT			6.1			6.1				CL125STW	
0520 3	VALLEY GUTTER - CONCRETE	244+02.87 to 244+10.42	RT		LF	7.6			7.6		166		CL684	
		244+10.42 to 244+65.33	RT			54.9			54.9				CL684	
		244+65.33 to 244+72.88	RT			7.6			7.6				CL684	
		15+64.00 to 15+72.41	RT			8.4			8.4				CL HUNTERS POINT WAY	
		15+72.41 to 16+27.59	RT			55.2			55.2				CL HUNTERS POINT WAY	
		16+27.59 to 16+36.00	RT			8.4			8.4				CL HUNTERS POINT WAY	
		30+78.07 to 30+82.46	LT			4.4			4.4				CL125STW	
		30+82.46 to 31+02.32	LT			19.9			19.9				CL125STW	

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REVISIONS DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO. SQ-18

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DIRECTIONAL INDICATORS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2		0919 528 100			
STA. TO STA.					SY		SY		SF		SF			
					P	F	P	F	P	F	P	F		
205+97.80 to 206+68.26	LT	28965			31.2								CL684	
206+38.68 to 206+65.00	LT	45401			39.2								CL684	
207+32.57 to 207+85.00	RT	45325			56.3								CL684	
240+13.94 to 241+83.84	RT	26504			161.7								CL684	
242+83.00 to 243+23.03	LT	26485			41.7								CL684	
243+25.00 to 244+02.87	RT	26494			96.5								CL684	
244+09.67 to 246+07.10	LT	18519			219.4								CL684	
244+72.36 to 246+02.67	RT	18477			144.8								CL684	
10+35.28 to 15+64.00	RT	18508			377.1								CL HUNTERS POINT WAY	
10+64.70 to 15+47.58	LT	26527			295.2								CL HUNTERS POINT WAY	
15+59.58 to 16+87.32	LT	26518			83.8								CL HUNTERS POINT WAY	
16+36.00 to 16+66.41	RT	18493			20.3								CL HUNTERS POINT WAY	
40+38.64 to 41+43.47	RT	19293			122.8								CL127STW	
41+89.59 to 42+74.72	RT	18533			47.9								CL127STW	
42+92.67 to 43+07.43	RT	18526			8.2								CL127STW	
43+91.86 to 44+22.92	RT	18484			19.4								CL127STW	
205+15.33 to 205+59.91	RT	35003					76.3						CL684	
205+20.00 to 206+38.68	LT	46240					135.6						CL684	
205+40.60 to 205+89.57	RT	34994					45.4						CL684	
205+89.57 to 207+32.57	RT	45294					128.8						CL684	
206+65.00 to 210+73.22	LT	45464					426.7						CL684	
206+65.00 to 211+82.85	LT/RT	45360					703.3						CL684	
207+85.00 to 208+65.98	RT	45304					89.1						CL684	
208+55.79 to 208+87.45	RT	19195					72.8						CL684 (DRIVEWAY)	
208+77.60 to 210+73.89	RT	26390					224.7						CL684	
236+94.39 to 238+61.91	LT/RT	46198					170.5						CL684	
240+64.00 to 242+83.00	LT	26008					230.9						CL684	
240+64.00 to 243+25.00	RT	26021					444.3						CL684	
243+23.03 to 243+44.80	LT	19019					28.7						CL684	
243+87.76 to 244+09.67	LT	19030					19.5						CL684	
244+02.87 to 244+22.73	RT	19043					14.9						CL684	
244+52.50 to 244+72.36	RT	26719					14.9						CL684	
246+02.67 to 246+22.52	RT	19077					14.9						CL684	
246+07.10 to 246+29.27	LT	28894					16.1						CL684	
249+55.34 to 249+61.61	LT	18449					2.7						CL684	
249+55.34 to 249+61.61	RT	18456					2.7						CL684	
15+37.58 to 15+69.58	LT	23140					13.8						CL HUNTERS POINT WAY (DRIVEWAY)	
15+64.00 to 15+79.91	RT	19008					7.0						CL HUNTERS POINT WAY	
16+20.09 to 16+36.00	RT	18996					7.0						CL HUNTERS POINT WAY	
16+66.41 to 16+88.75	RT	18985					24.2						CL HUNTERS POINT WAY	
16+87.32 to 17+09.61	LT	17232					22.6						CL HUNTERS POINT WAY	
40+35.55 to 40+38.84	RT	26679					4.2						CL127STW	
41+43.47 to 41+59.69	RT	18962					10.5						CL127STW	
41+86.19 to 41+89.96	RT	26636					1.7						CL127STW	
42+71.01 to 42+95.84	RT	17245					18.3						CL127STW (DRIVEWAY)	
30+84.33 to 31+01.18	LT	35010					6.9						CL125STW (DRIVEWAY)	
				SUB-TOTAL:	1765.5		2979.0							
				TOTAL:	1766		2979		341		51			

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO.
SQ-19

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4" 0522 1 SY P	CONC SIDEWALK 4" 0522 1 SY F	CONC SIDEWALK 6" 0522 2 SY P	CONC SIDEWALK 6" 0522 2 SY F	DETECTABLE WARNINGS 0527 2 SF P	DETECTABLE WARNINGS 0527 2 SF F	DIRECTIONAL INDICATORS 0919 528 100 SF P	DIRECTIONAL INDICATORS 0919 528 100 SF F	DESIGN NOTES	CONSTRUCTION REMARKS
205+17.81 to 205+21.58	RT	17389							11.1				CL684	
205+26.62 to 205+31.61	RT	35028							10.0				CL684	
205+26.87 to 205+32.07	LT	17406							10.0				CL684	
205+34.52 to 205+39.36	RT	35022							9.9				CL684	
205+51.23 to 205+56.46	RT	35016							11.2				CL684	
243+29.03 to 243+42.00	LT	17457							29.1				CL684	
243+90.69 to 244+03.67	LT	17452							29.1				CL684	
244+08.87 to 244+21.54	RT	17462							27.9				CL684	
244+53.69 to 244+66.36	RT	26690							27.9				CL684	
246+08.67 to 246+21.33	RT	17474							27.9				CL684	
246+13.10 to 246+27.99	LT	28901							31.4				CL684	
249+55.47 to 249+61.47	LT	17486							12.0				CL684	
249+55.47 to 249+61.47	RT	17491							12.0				CL684	
15+70.00 to 15+78.55	RT	17446							15.8				CL HUNTERS POINT WAY	
16+21.45 to 16+30.00	RT	17440							15.8				CL HUNTERS POINT WAY	
16+84.57 to 16+88.33	RT	17435							9.6				CL HUNTERS POINT WAY	
16+98.44 to 17+02.87	LT	17430							8.0				CL HUNTERS POINT WAY	
40+35.56 to 40+36.80	RT	26696							10.9				CL127STW	
41+49.01 to 41+58.53	RT	17418							21.4				CL127STW	
41+87.72 to 41+89.96	RT	17425							10.0				CL127STW	
206+00.01 to 206+33.97	LT	50603									50.5		CL684	
SUB-TOTAL:									341.0		51			

SUMMARY OF DITCH PAVEMENT

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONCRETE DITCH PAVEMENT NON-REINFORCED 0524 1 1 SY P	CONCRETE DITCH PAVEMENT NON-REINFORCED 0524 1 1 SY F	DESIGN NOTES	CONSTRUCTION REMARKS
211+28.38 to 211+50.27	LT	16377			49.40		CS3-2 Conc. Sump	
SUB-TOTAL:					49.40			
TOTAL:					49.4			

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REVISIONS DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO. SQ-20

SUMMARY OF GUARDRAIL

LOCATION	SIDE	GUARDRAIL (W-BEAM, LOW SPEED, TL-2)		GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-001, APPROACH TL-2		GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I-INDEX 536-001, TRAILING		GUARDRAIL REMOVAL		END TREATMENT (TRAILING ANCHORAGE)		END TREATMENT (PARALLEL APPROACH TERMINAL)		END TREATMENT (CRT END TREATMENT)		DESIGN NOTES	CONSTRUCTION REMARKS
		0536 1 0		0536 8111		0536 8113		0536 73		0536 85 20		0536 85 24		0536 85 26			
STA. TO STA.		LF		EA		EA		LF		EA		EA		EA			
		P	F	P	F	P	F	P	F	P	F	P	F	P	F		
206+38.49 to 207+10.61	LT	72.0														CL684	
207+32.57 to 208+49.86	RT	118.8														CL684	
208+97.43 to 209+59.19	RT	62.5														CL684	
241+99.40 to 242+99.36	LT	100.0														CL684	
243+16.25 to 243+60.00	RT	43.8														CL684	
10+65.77 to 11+17.14	LT	112.5														CL HUNTERS POINT WAY	
39+90.91 to 41+13.81	LT	100.0														CL127STW	
206+65.06 to 208+00.61	LT					1										CL684	
209+37.53 to 209+59.19	RT			1												CL684	
241+99.40 to 242+58.77	LT			1												CL684	
243+16.25 to 243+50.63	RT					1										CL684	
208+57.08 to 208+74.03	RT							17.3								CL684	
208+78.29 to 208+88.70	RT							10.6								CL684	
210+32.18 to 210+96.05	RT							65.1								CL684	
210+36.27 to 210+99.65	LT/RT							64.4								CL684	
237+23.37 to 239+51.33	LT/RT							230.7								CL684	
237+27.81 to 239+57.78	RT							230.6								CL684	
208+49.85 to 208+49.85	RT									1						CL684	
242+89.23 to 242+89.23	LT									1						CL684	
243+60.00 to 243+60.00	RT									1						CL684	
39+90.79 to 39+90.79	LT									1						CL127STW	
207+32.57 to 207+32.57	RT											1				CL684	
208+97.43 to 208+97.43	RT											1				CL684	
242+99.36 to 242+99.36	LT											1				CL684	
11+17.14 to 11+17.14	LT											1				CL HUNTERS POINT WAY	
41+13.81 to 41+13.81	LT											1				CL127STW	
206+38.68 to 206+38.68	LT													1		CL684	
SUB-TOTAL:		609.6		2		2		618.7		4		5		1			
TOTAL:		610		2		2		619		4		5		1			

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO.
SQ-21

SUMMARY OF PERFORMANCE TURF

LOCATION	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD) 0570 1 2 SY		PERFORMANCE TURF (SOD & SOIL) 0570 1 3 SY		PLASTIC EROSION MAT, TYPE 1 0571 1 11 SY		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.					P	F	P	F	P	F		
204+89.93 to 205+09.03	LT	47306			2.0						CL684	
204+90.12 to 205+26.82	LT	48836			75.5						CL684	
205+03.70 to 205+28.97	LT	47537			10.4						CL684	
205+17.90 to 207+50.00	LT	47298			25.2						CL684	
205+20.78 to 207+98.14	LT	50160			53.5						CL684	
205+26.76 to 207+50.00	LT	47340			160.8						CL684	
205+32.54 to 206+23.69	LT	49040			83.0						CL684	
205+45.33 to 206+16.21	RT	37201			20.0						CL684	
205+46.45 to 206+21.06	RT	48072			160.0						CL684	
205+47.23 to 205+97.71	RT	47871			108.0						CL684	
205+47.92 to 207+20.00	RT	47484			222.1						CL684	
205+70.01 to 206+27.53	RT	33791			59.4						CL684	
206+28.10 to 207+50.12	RT	20630			25.8						CL684	
207+19.96 to 207+39.52	RT	51263			32.5						CL684	
207+19.99 to 207+50.01	RT	33706			6.8						CL684	
207+39.52 to 207+50.11	RT	51270			21.7						CL684	
207+50.00 to 207+85.04	RT	20674			7.9						CL684	
207+50.00 to 208+76.53	LT	51057			125.2						CL684	
207+50.01 to 208+65.93	RT	20769			232.9						CL684	
207+50.11 to 208+01.82	RT	20684			11.4						CL684	
207+95.65 to 208+64.24	RT	32877			53.7						CL684	
208+00.97 to 211+62.13	LT	50064			66.6						CL684	
208+06.99 to 208+63.88	RT	42347			55.4						CL684	
208+14.56 to 208+63.46	RT	42310			53.0						CL684	
208+75.35 to 210+86.50	RT	47578			131.3						CL684	
208+76.53 to 209+97.54	LT	51155			229.0						CL684	
208+77.10 to 209+46.89	RT	22188			78.8						CL684	
208+77.34 to 209+31.80	RT	20912			60.5						CL684	
208+77.97 to 209+51.88	RT	42375			75.8						CL684	
209+31.49 to 209+43.53	RT	21198			6.6						CL684	
209+33.91 to 209+41.19	RT	21213			3.9						CL684	
209+46.66 to 211+20.32	RT	47637			270.5						CL684	
209+66.67 to 211+25.15	RT	42431			101.0						CL684	
209+66.82 to 211+73.09	RT	42450			157.0						CL684	
209+71.08 to 211+68.94	RT	48224			862.3						CL684	
209+97.54 to 211+24.76	LT	51203			201.6						CL684	
210+12.17 to 210+24.71	RT	21152			2.4						CL684	
210+18.83 to 210+28.50	RT	42513			13.4						CL684	
210+24.35 to 210+28.38	RT	42528			2.9						CL684	
210+28.21 to 210+32.22	RT	42535			2.9						CL684	
210+28.38 to 210+37.72	RT	42543			13.6						CL684	
210+31.43 to 210+44.02	RT	21157			2.4						CL684	
210+54.40 to 210+92.69	RT	21164			6.6						CL684	
210+95.06 to 211+52.17	RT	47568			34.9						CL684	
211+20.75 to 211+57.91	LT	21237			38.5						CL684	
211+24.76 to 211+44.27	LT	51247			13.1						CL684	
211+25.15 to 211+53.49	LT	48200			23.1						CL684	
211+43.50 to 211+58.29	LT	51239			12.4						CL684	
				SUB-TOTAL:	4017.3							
				TOTAL:	14069		68		376			

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
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H. W. LOCHNER, INC.
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO.
SQ-22

SUMMARY OF PERFORMANCE TURF

LOCATION	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD) 0570 1 2 SY		PERFORMANCE TURF (SOD & SOIL) 0570 1 3 SY		PLASTIC EROSION MAT, TYPE 1 0571 1 11 SY		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.					P	F	P	F	P	F		
237+02.56 to 239+14.56	RT	50584			761.0						CL684	
237+98.28 to 239+67.95	LT	50765			74.6						CL684	
239+89.22 to 240+00.57	RT	20315			3.5						CL684	
239+89.41 to 240+26.69	RT	20322			48.4						CL684	
240+01.58 to 240+20.02	RT	20334			13.0						CL684	
240+11.35 to 240+13.95	LT	22286			2.3						CL684	
240+13.34 to 240+64.00	LT	22308			63.7						CL684	
240+14.72 to 240+30.50	RT	20338			9.5						CL684	
240+25.86 to 241+83.84	RT	21357			35.2						CL684	
240+29.58 to 241+83.84	RT	21340			84.3						CL684	
240+61.72 to 242+98.75	LT	21365			292.7						CL684	
242+98.59 to 243+35.43	LT	49543			42.1						CL684	
243+25.00 to 243+63.14	RT	48426			27.2						CL684	
243+36.59 to 244+23.07	RT	48432			18.7						CL684	
243+63.03 to 244+25.69	RT	21417			79.2						CL684	
243+63.16 to 244+22.17	RT	21411			13.0						CL684	
243+91.02 to 246+35.35	LT	48755			53.6						CL684	
243+91.71 to 246+35.23	LT	49374			319.9						CL684	
243+96.71 to 246+30.07	LT	49356			51.2						CL684	
244+22.47 to 244+25.87	RT	20102			0.9						CL684	
244+49.36 to 244+52.82	RT	20112			1.2						CL684	
244+49.57 to 244+56.80	RT	51280			6.9						CL684	
244+52.16 to 246+22.86	RT	21430			37.7						CL684	
244+53.17 to 246+25.49	RT	21439			38.2						CL684	
244+56.80 to 246+00.24	RT	51293			195.1						CL684	
246+00.24 to 246+25.49	RT	51302			32.6						CL684	
249+21.40 to 249+54.72	LT	22319			13.3						CL684	
249+26.19 to 249+54.72	RT	22326			9.4						CL684	
249+62.22 to 249+91.40	LT	22332			9.6						CL684	
249+62.22 to 249+96.20	RT	22338			13.6						CL684	
10+39.19 to 15+85.21	RT	21934			344.7						CL HUNTERS POINT WAY	
10+43.96 to 15+80.97	RT	21499			129.1						CL HUNTERS POINT WAY	
10+50.45 to 15+85.01	RT	21969			130.4						CL HUNTERS POINT WAY	
10+62.59 to 15+38.70	LT	49558			450.4						CL HUNTERS POINT WAY	
10+84.64 to 15+98.74	LT	21691			555.7						CL HUNTERS POINT WAY	
10+94.11 to 15+89.58	LT	51324			942.4						CL HUNTERS POINT WAY	
10+99.65 to 16+45.29	LT	48599			926.0						CL HUNTERS POINT WAY	
12+50.00 to 12+82.86	LT	51316			62.3						CL HUNTERS POINT WAY	
12+75.77 to 15+75.58	LT	21681			300.7						CL HUNTERS POINT WAY	
12+77.38 to 15+66.35	LT	22227			498.6						CL HUNTERS POINT WAY	
15+64.28 to 16+91.22	LT	48623			28.0						CL HUNTERS POINT WAY	
15+65.13 to 16+50.00	LT	51362			121.4						CL HUNTERS POINT WAY	
15+70.03 to 17+01.27	LT	48634			29.0						CL HUNTERS POINT WAY	
16+15.26 to 16+78.43	RT	22060			17.4						CL HUNTERS POINT WAY	
16+16.08 to 16+81.26	RT	22039			41.0						CL HUNTERS POINT WAY	
16+19.03 to 16+82.23	RT	21512			14.9						CL HUNTERS POINT WAY	
16+50.00 to 17+00.78	LT	51348			67.5						CL HUNTERS POINT WAY	
41+44.90 to 41+60.10	RT	22302			10.4						CL127STW	
41+44.97 to 41+63.70	RT	22275			4.6						CL127STW	
SUB-TOTAL:					7026.1							

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WILLIAM C. COGAN, P.E.
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4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA, 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO. SQ-23

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD) 0570 1 2 SY		PERFORMANCE TURF (SOD & SOIL) 0570 1 3 SY		PLASTIC EROSION MAT, TYPE 1 0571 1 11 SY		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F	P	F		
41+85.56 to 43+07.64	RT	49636			9.7						CL127STW	
41+85.59 to 43+11.73	RT	49648			27.9						CL127STW	
41+87.72 to 42+74.67	RT	20181			37.3						CL127STW	
42+92.67 to 43+07.43	RT	20296			4.0						CL127STW	
30+49.84 to 30+77.01	RT	20092			3.0						CL125STW	
30+50.16 to 30+77.00	LT	20097			3.0						CL125STW	
30+76.99 to 30+86.06	LT	20133			3.3						CL125STW	
30+77.00 to 31+03.45	RT	37316			18.00						CL125STW	
31+00.38 to 31+03.45	LT	37360			1.4						CL125STW	
31+03.45 to 31+09.18	LT	48704			2.6						CL125STW	
SOD FOR DRAINAGE STRUCTURES					189.0							
SOD FOR TEMPORARY USE					2726.5							
246+85.70 to 247+49.12	LT	41676					16.4				CL684	
248+25.38 to 249+18.73	LT	41484					27.5				CL684	
249+99.05 to 250+80.01	LT	41492					24.0				CL684	
244+56.80 to 246+02.90	RT	52603							238.7		CL684	
15+69.58 to 16+47.29	LT	52604							137.0		CL HUNTERS POINT WAY	
				SUB-TOTAL:	3025.7		67.9		375.7			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

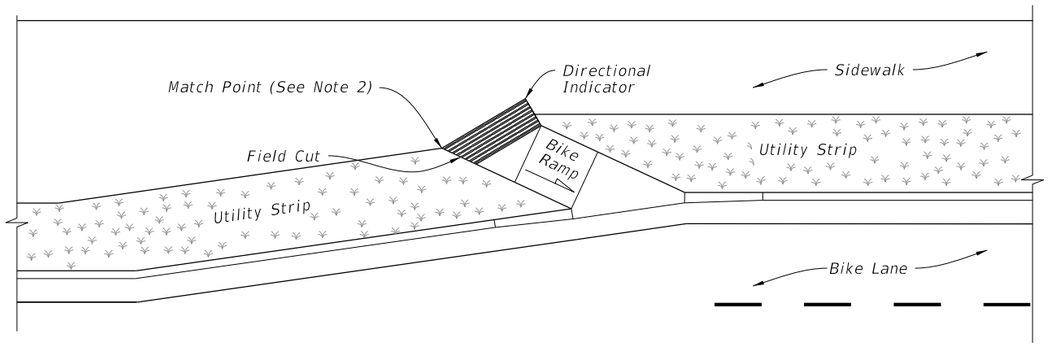
WILLIAM C. COGAN, P.E.
P.E. LICENSE NUMBER 66438
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4300 W. CYPRESS STREET, SUITE 500
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STATE OF FLORIDA
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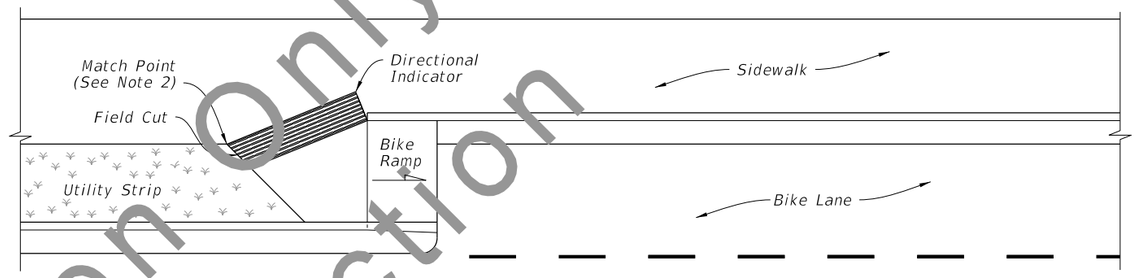
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	430204-2-52-01

SUMMARY OF QUANTITIES

SHEET NO.
SQ-24



ANGLED BICYCLE RAMP



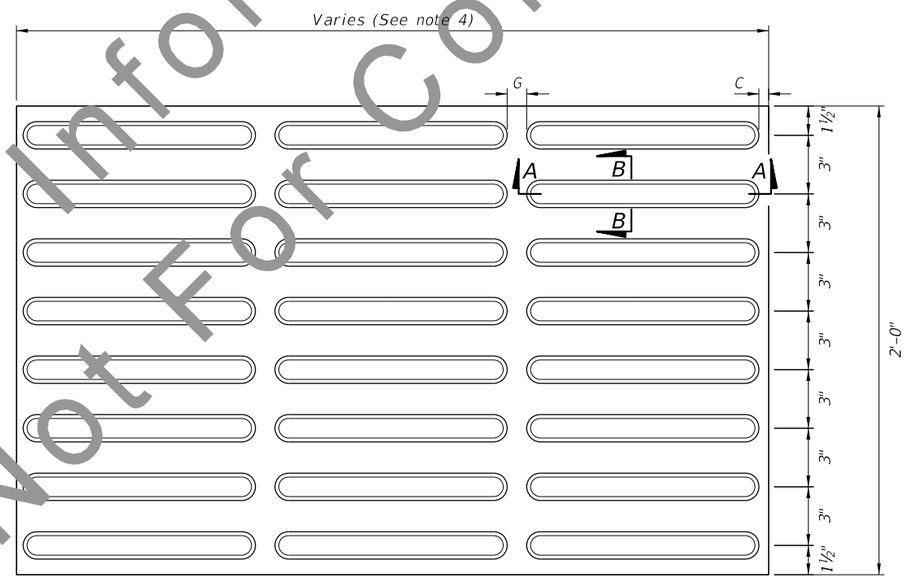
STRAIGHT BICYCLE RAMP

TYPICAL PLACEMENT ON BICYCLE RAMPS

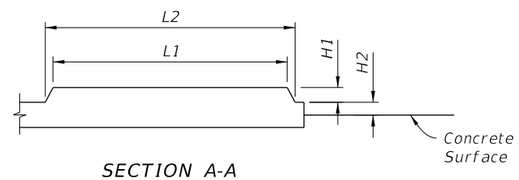
NOTES:

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

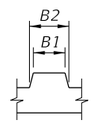
Dimension	Range (in.)
B1	0.70 to 1.00
B2	B1 + 0.40
C	0.35 to 0.60
G	0.45 to 1.20
H1	0.18 to 0.20
H2	0.12 Max.
L1	10.70 to 12.00
L2	L1 + 0.40



PLAN



SECTION A-A



SECTION B-B

DIRECTIONAL INDICATOR DETAILS

For Information Only
Not For Construction

12/15/2020 9:12:25 AM

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