

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

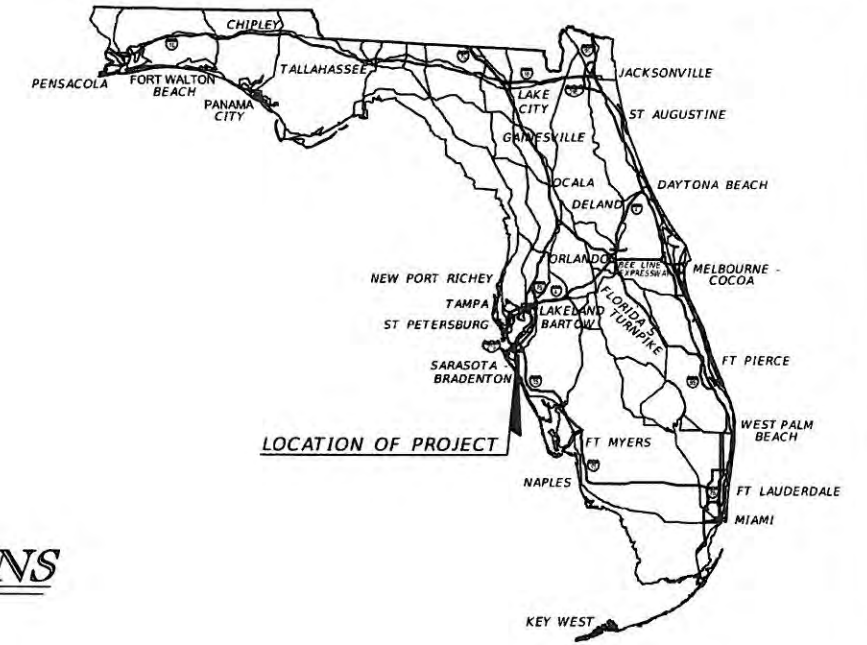
CONTRACT PLANS

FINANCIAL PROJECT ID 431373-1-52-01

MANATEE COUNTY (13160)

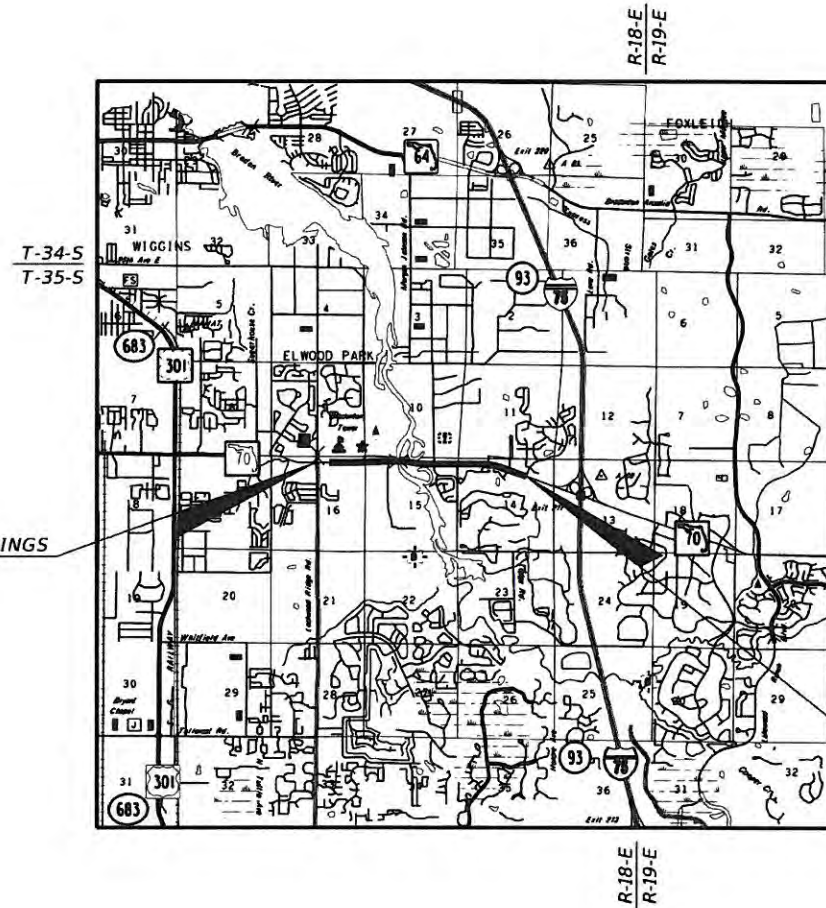
STATE ROAD NO. 70

SIGNING AND PAVEMENT MARKING PLANS



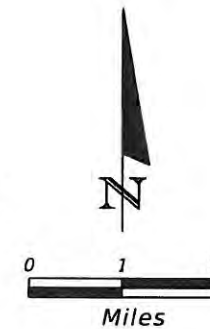
INDEX OF SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
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S-2 - S-3	TABULATION OF QUANTITIES
S-4	SIGNING AND MARKING GENERAL NOTES
S-5 - S-23	SIGNING AND PAVEMENT MARKING PLANS



BEGIN SIGNING AND PAVEMENT MARKINGS  
STA. 151+75.00  
MP 2.495

END SIGNING AND PAVEMENT MARKINGS  
STA. 272+90.24  
MP 4.792



SIGNING AND PAVEMENT MARKING SHOP DRAWINGS TO BE SUBMITTED TO:  
SCOTT P. SECK, P.E.  
HORIZON ENGINEERING GROUP, INC.  
2603 MAITLAND CENTER PARKWAY, SUITE B  
MAITLAND, FL 32751  
PHONE: 407-644-7755  
FAX: 407-644-7855

PLANS PREPARED BY:  
HORIZON ENGINEERING GROUP, INC.  
2603 Maitland Center Parkway, Suite B  
Maitland, Florida 32751  
CONTRACT NO. C9527  
VENDOR NO. 43-1994849  
Certificate of Authorization No.: 00009544

NOTE: THIS PROJECT TO BE LET TO CONTRACT WITH FINANCIAL PROJECT ID 431207-1-52-01

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

SIGNING AND PAVEMENT MARKING PLANS  
ENGINEER OF RECORD: SCOTT P. SECK, P.E.

P.E. NO.: 53215

KEY SHEET REVISIONS	
DATE	DESCRIPTION

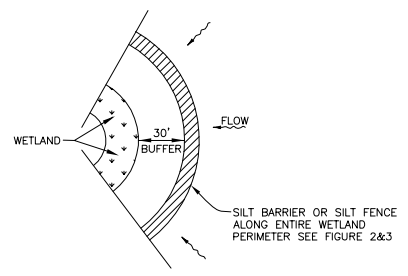
FISCAL YEAR	SHEET NO.
16	S-1



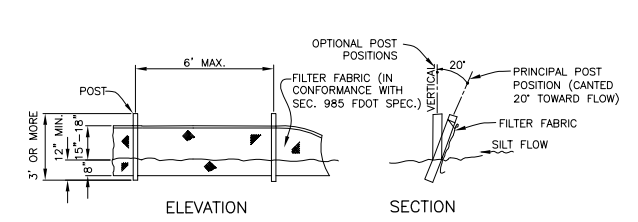
FDOT PROJECT MANAGER: CHRISTOPHER ZEIGLER, CPM, TOPS

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

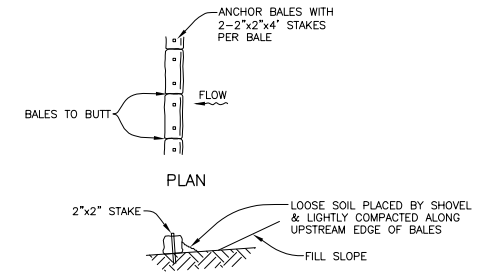




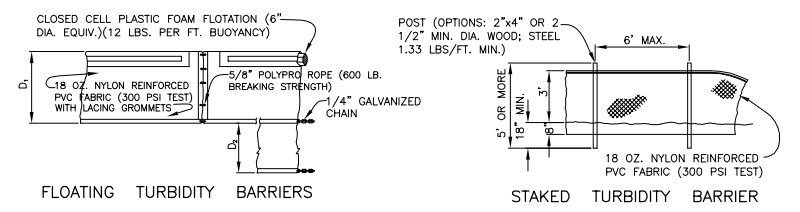
**WETLAND BUFFER**  
FIGURE 1



**TYPICAL SILT FENCE**  
FIGURE 2



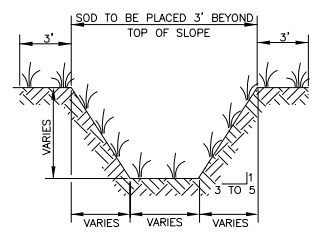
**TYPICAL BALE SILT BARRIER**  
FIGURE 3



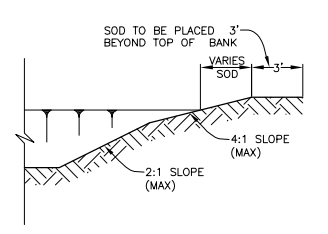
**STAKED TURBIDITY BARRIER**

NOTE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

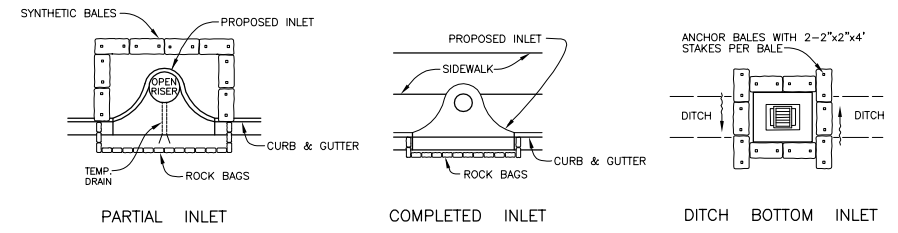
**TURBIDITY BARRIERS**  
FIGURE 4



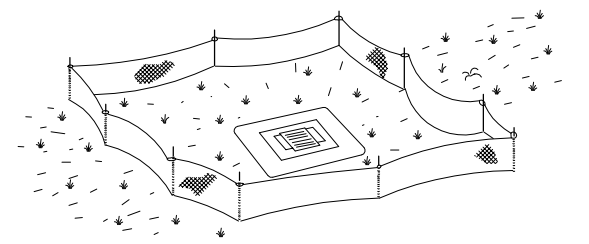
**TYPICAL SWALE SECTION**  
FIGURE 5



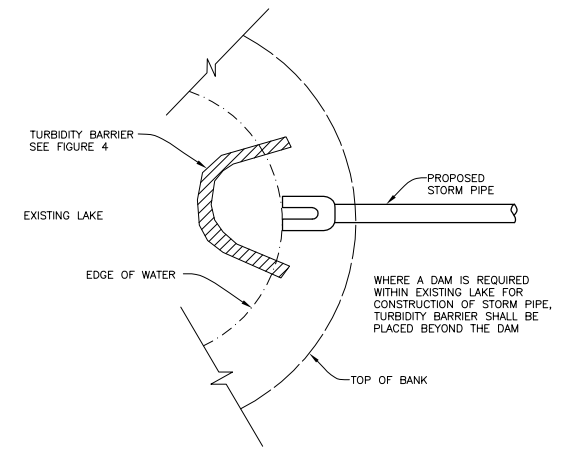
**TYPICAL RETENTION/DETENTION POND SECTION**  
FIGURE 6



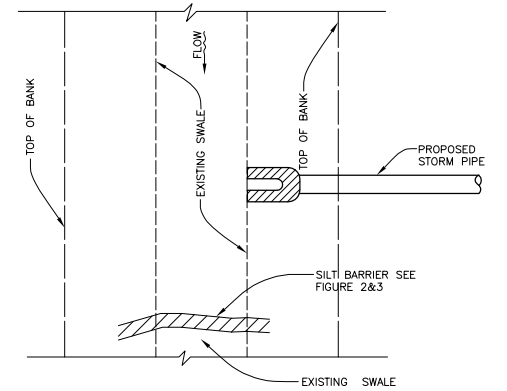
**SYNTHETIC BALE PROTECTION AROUND INLETS OR SIMILAR STRUCTURES**  
FIGURE 7



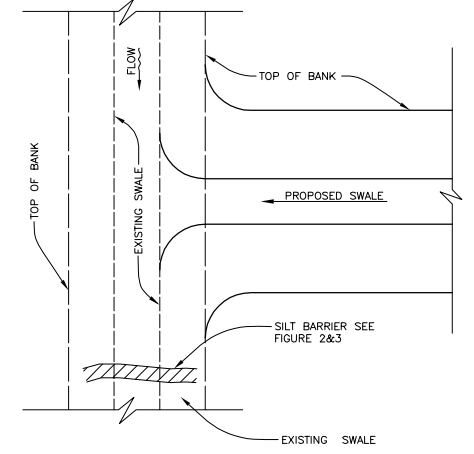
**TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS**  
**STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS**  
FIGURE 8



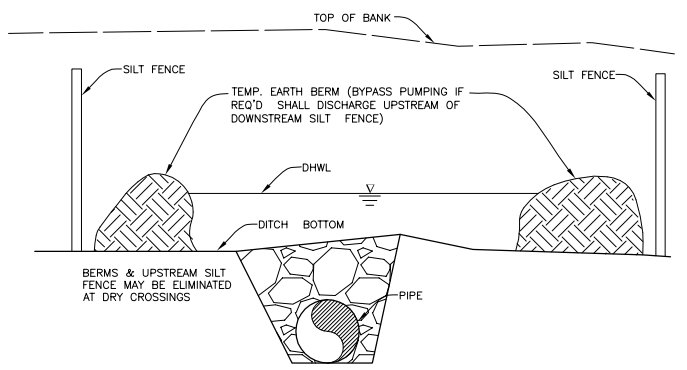
**TURBIDITY BARRIER AT CONNECTION OF STORM PIPE TO EXISTING LAKE**  
FIGURE 9



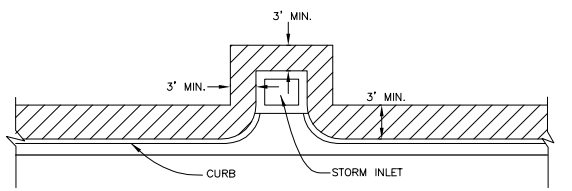
**SILT BARRIER AT CONNECTION OF STORM PIPE TO EXISTING SWALE**  
FIGURE 10



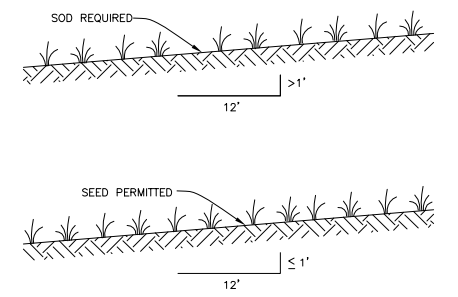
**SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE**  
FIGURE 11



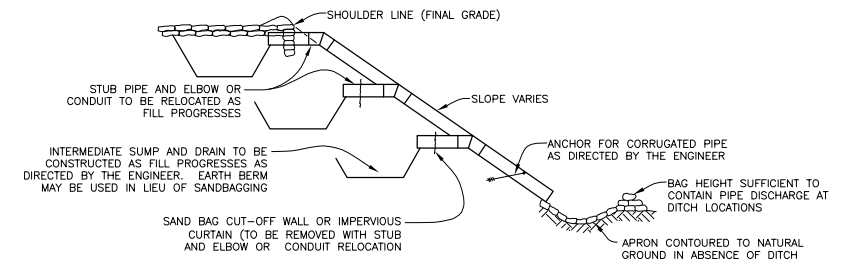
**UNDERGROUND PIPE CROSSING**  
FIGURE 12



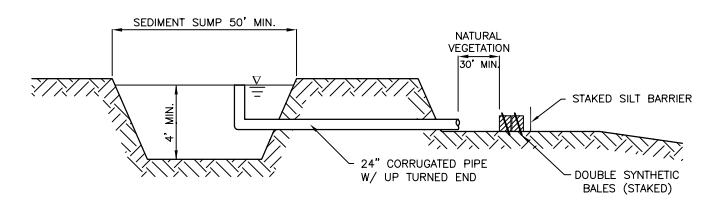
**SOD ALONG CURB AND AROUND INLET**  
FIGURE 14



**GRASS SLOPES**  
FIGURE 13



**SECTION AA**  
**TEMPORARY SLOPE DRAIN**  
FIGURE 15



**SEDIMENT SUMP SECTION**  
FIGURE 16

NOTE: REFERENCE THE FDOT DESIGN STANDARDS LATEST EDITION FOR ALL TEMPORARY EROSION CONTROL MEASURES.

NO.	REVISION DESCRIPTION	BY	DATE
PROJECT #	431373-1-52-01		
SURVEY #	14.061		
SEC./TWN./RGE	N/A		
SCALE	NTS		
		BY	DATE
		MC	12/2013
		JKP	06/2014
		JKP	08/2014
		MS	08/2014

# S.R. 70

BEGIN PROJECT  
 BEGIN CONSTRUCTION  
 BEGIN MILLING & RESURFACING  
 STA. 151+75.00 Q CONSTRUCTION  
 STA. 151+77.45 Q SURVEY

EXISTING PRIVATE  
 1" Ø HDPE WATERMAIN  
 REC# 01309.001  
 TO REMAIN

EXISTING MANATEE COUNTY  
 4" Ø PVC SAN FM  
 REC# : 1309.001 TO REMAIN

EXISTING MANATEE COUNTY  
 8" Ø PVC GRAVITY SEWER  
 REC# : 02210.012 TO REMAIN

EXISTING MANATEE COUNTY  
 8" Ø PVC GRAVITY SEWER  
 REC# : 02210.012 TO REMAIN

STA: 153+42 26.4 L  
 Replace MH Ring & Cover,  
 Adjust to Finished Grade

EXIST  
 8" Ø F  
 REC#

EXISTING MANATEE COUNTY  
 30" Ø UNKN WATERMAIN  
 REC# 02232.040  
 TO REMAIN

EXISTING MANATEE COUNTY  
 10" Ø PVC GRAVITY SEWER  
 REC# : 02573.003 TO REMAIN

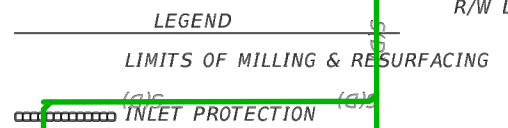
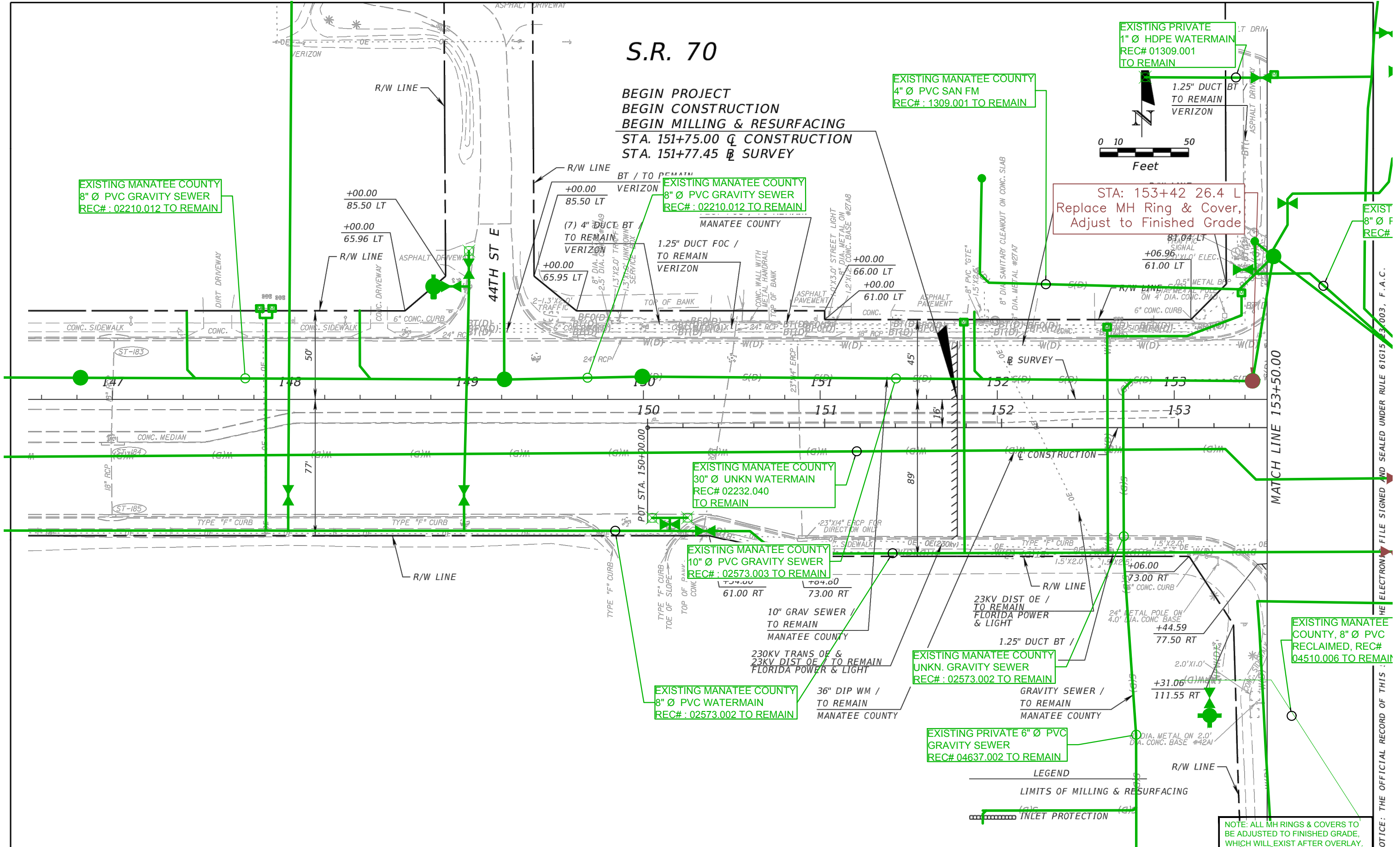
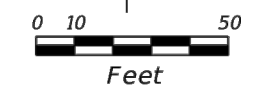
EXISTING MANATEE COUNTY  
 8" Ø PVC WATERMAIN  
 REC# : 02573.002 TO REMAIN

EXISTING MANATEE COUNTY  
 UNKN. GRAVITY SEWER  
 REC# : 02573.002 TO REMAIN

EXISTING PRIVATE 6" Ø PVC  
 GRAVITY SEWER  
 REC# 04637.002 TO REMAIN

EXISTING MANATEE COUNTY,  
 8" Ø PVC  
 RECLAIMED, REC#  
 04510.006 TO REMAIN

NOTE: ALL MH RINGS & COVERS TO  
 BE ADJUSTED TO FINISHED GRADE,  
 WHICH WILL EXIST AFTER OVERLAY.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HORIZON ENGINEERING GROUP, INC.  
 2603 Maitland Center Pkwy., Suite B  
 Maitland, Florida 32751  
 Phone: 407-644-7755  
 Certificate of Authorization No.: 00009544  
 SCOTT P. SECK, P.E. NO. 53215

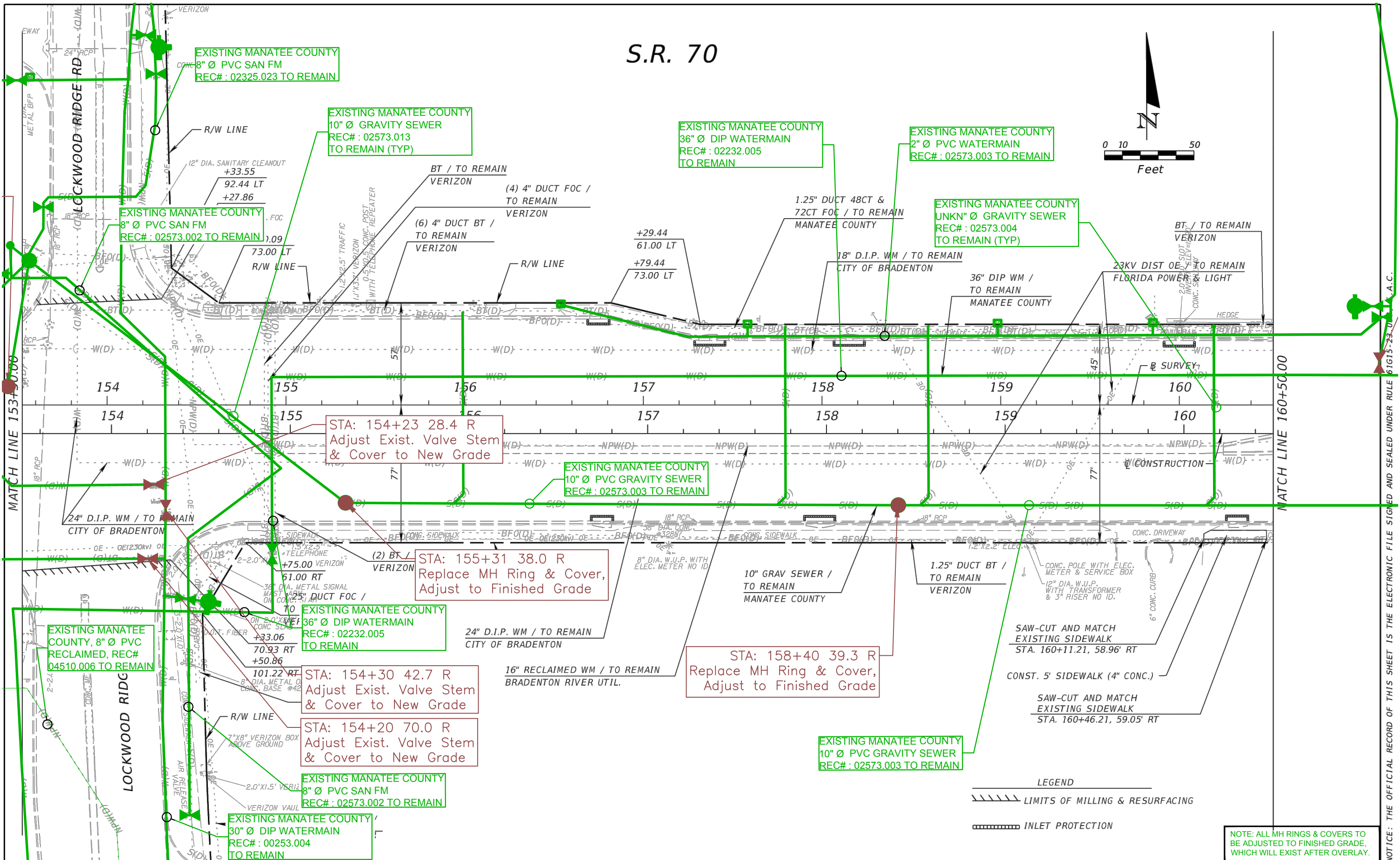
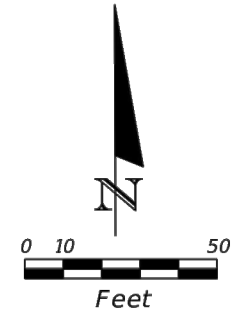
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
70	MANATEE	431373-1-52-01

**ROADWAY PLAN**

SHEET NO.
15

NOTICE: THE OFFICIAL RECORD OF THIS PROJECT SHALL BE THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-2.003, F.A.C.

# S.R. 70



REVISIONS	
DATE	DESCRIPTION

HORIZON ENGINEERING GROUP, INC.  
 2603 Maitland Center Pkwy., Suite B  
 Maitland, Florida 32751  
 Phone: 407-644-7755  
 Certificate of Authorization No.: 00009544  
 SCOTT P. SECK, P.E. NO. 53215

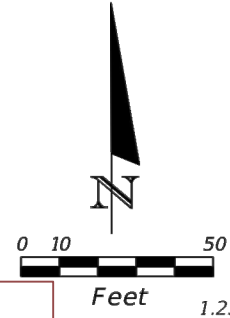
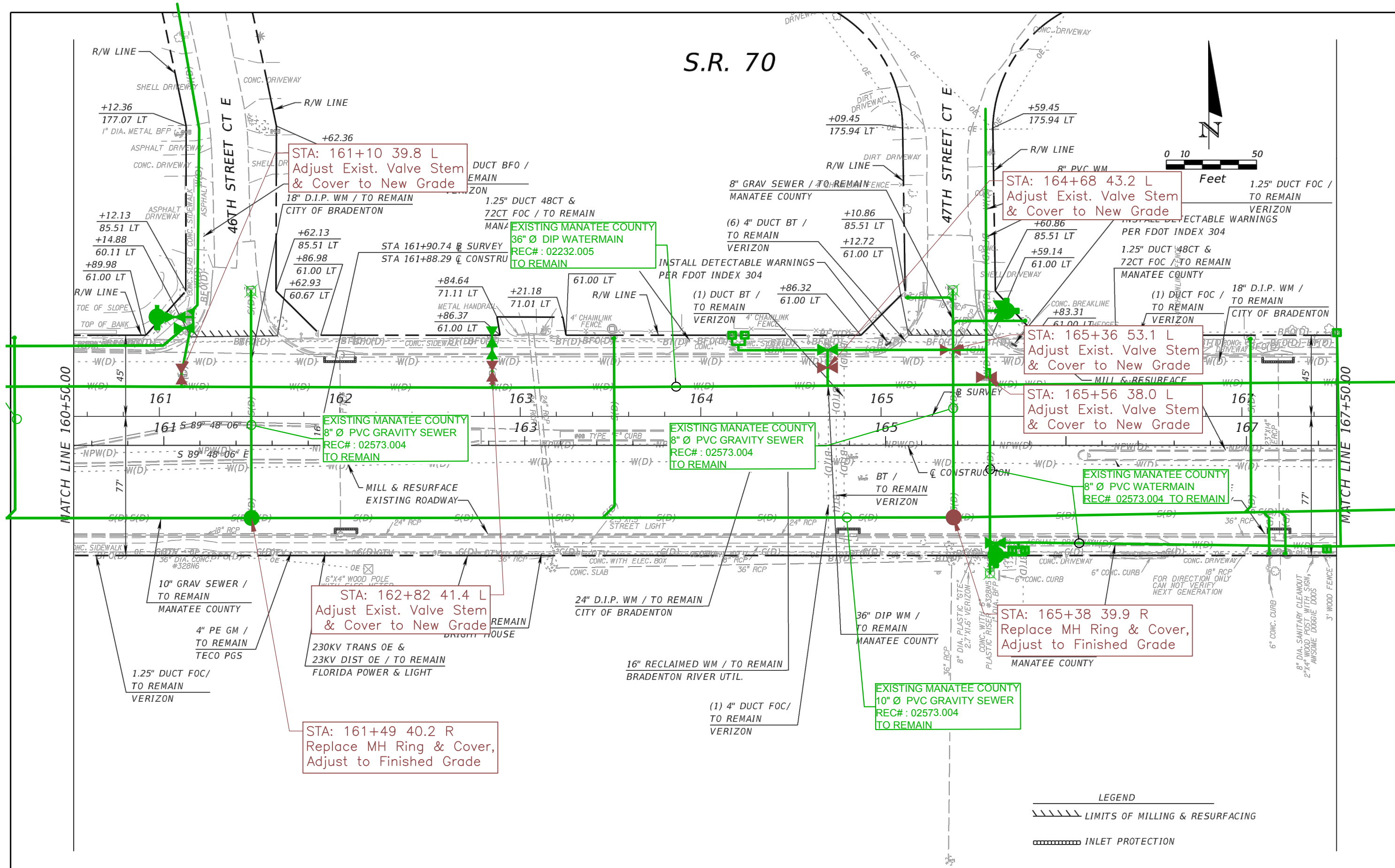
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
70	MANATEE	431373-1-52-01

**ROADWAY PLAN**

SHEET NO.  
16

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.001, F.S.

# S.R. 70



STA: 164+68 43.2 L  
Adjust Exist. Valve Stem  
& Cover to New Grade

STA: 161+10 39.8 L  
Adjust Exist. Valve Stem  
& Cover to New Grade

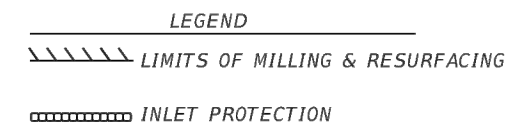
STA: 165+36 53.1 L  
Adjust Exist. Valve Stem  
& Cover to New Grade

STA: 165+56 38.0 L  
Adjust Exist. Valve Stem  
& Cover to New Grade

STA: 162+82 41.4 L  
Adjust Exist. Valve Stem  
& Cover to New Grade

STA: 161+49 40.2 R  
Replace MH Ring & Cover,  
Adjust to Finished Grade

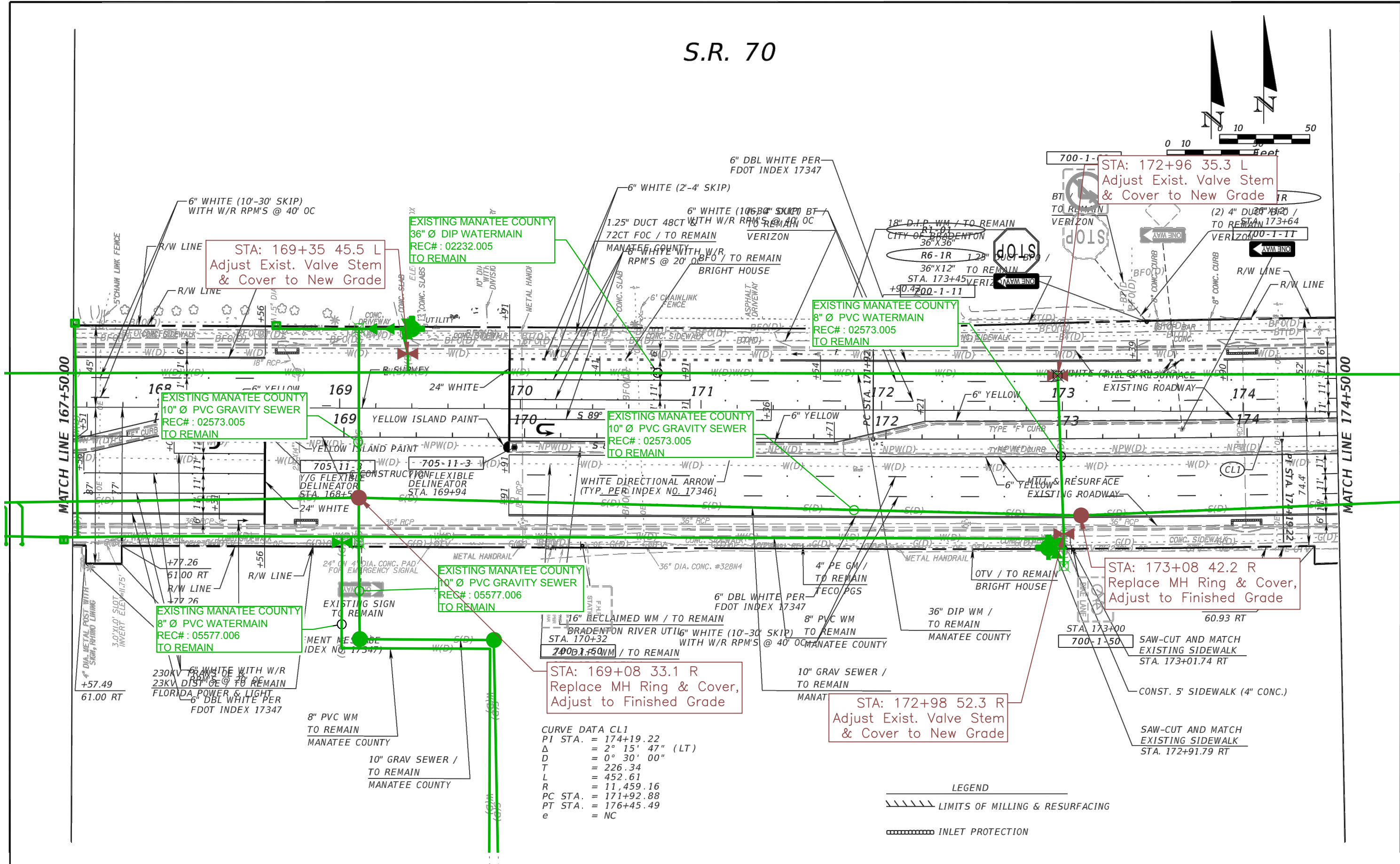
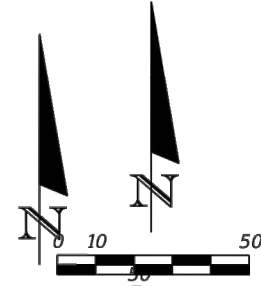
STA: 165+38 39.9 R  
Replace MH Ring & Cover,  
Adjust to Finished Grade



REVISIONS				HORIZON ENGINEERING GROUP, INC. 2603 Maitland Center Pkwy., Suite B Maitland, Florida 32751 Phone: 407-644-7755 Certificate of Authorization No.: 00009544 SCOTT P. SECK, P.E. NO. 53215	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  17
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					70	MANATEE	431373-1-52-01	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 1G15-23-.003, F.A.C.

# S.R. 70

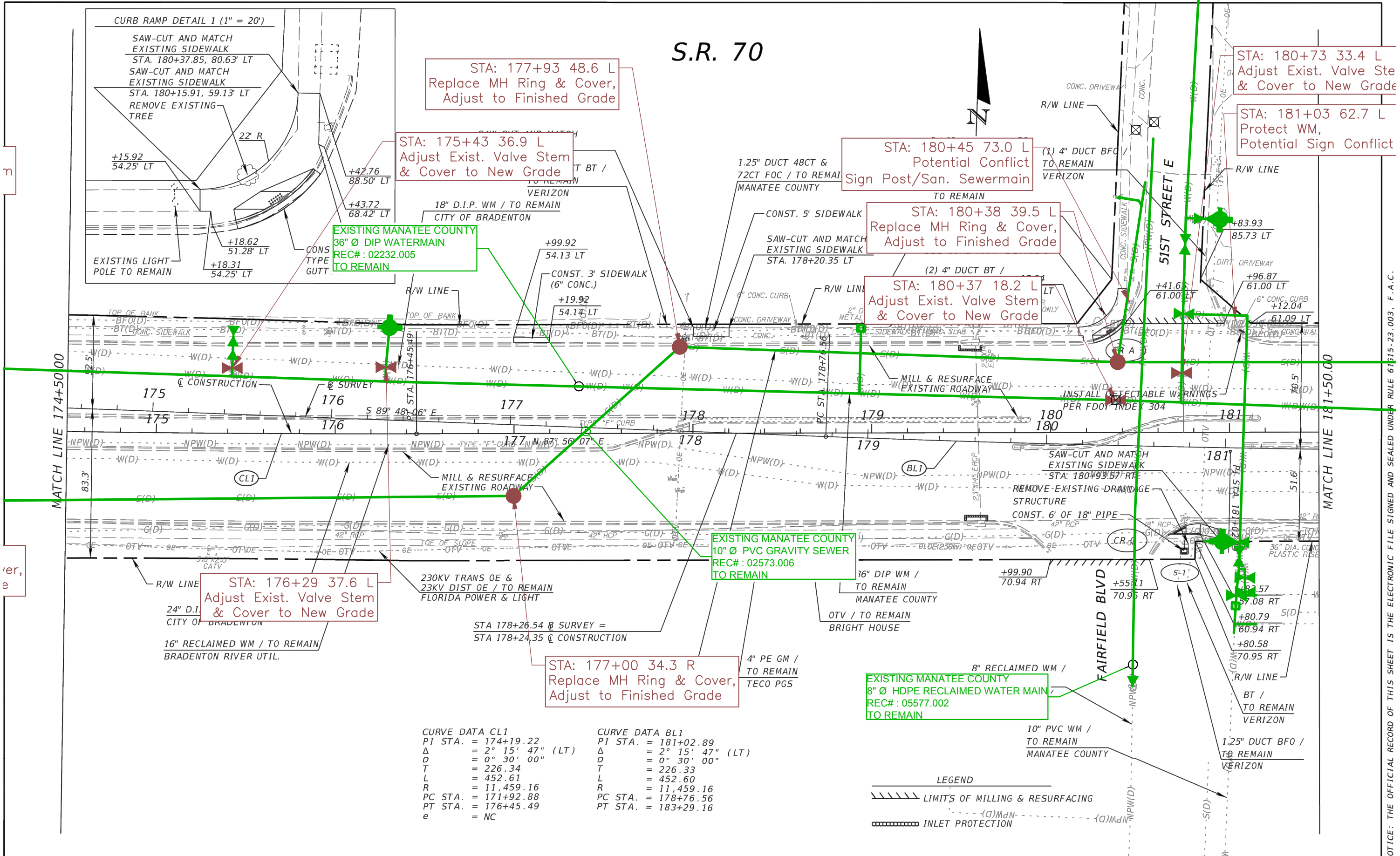


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REVISIONS				HORIZON ENGINEERING GROUP, INC. 2603 Maitland Center Pkwy., Suite B Maitland, Florida 32751 Phone: 407-644-7755 Certificate of Authorization No.: 00009544 SCOTT P. SECK, P.E. NO. 53215	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  18
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					70	MANATEE	431373-1-52-01	

## ROADWAY PLAN

# S.R. 70



CURVE DATA CL1		CURVE DATA BL1	
PI STA.	= 174+19.22	PI STA.	= 181+02.89
Δ	= 2° 15' 47" (LT)	Δ	= 2° 15' 47" (LT)
D	= 0° 30' 00"	D	= 0° 30' 00"
T	= 226.34	T	= 226.33
L	= 452.61	L	= 452.60
R	= 11,459.16	R	= 11,459.16
PC STA.	= 171+92.88	PC STA.	= 178+76.56
PT STA.	= 176+45.49	PT STA.	= 183+29.16
e	= NC		

LEGEND

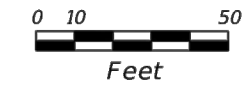
	LIMITS OF MILLING & RESURFACING
	INLET PROTECTION

REVISIONS				HORIZON ENGINEERING GROUP, INC. 2603 Maitland Center Pkwy., Suite B Maitland, Florida 32751 Phone: 407-644-7755 Certificate of Authorization No.: 00009544 SCOTT P. SECK, P.E. NO. 53215	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN	SHEET NO. 19
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					70	MANATEE	431373-1-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61E15-23.003, F.A.C.



# S.R. 70



A: 180+73 33.4 L  
just Exist. Valve Stem  
Cover to New Grade

A: 181+03 62.7 L  
Protect WM,  
Potential Sign Conflict

STA: 182+99 38.9 L  
Replace MH Ring & Cover,  
Adjust to Finished Grade

STA: 186+98 39.2 L  
Replace MH Ring & Cover,  
Adjust to Finished Grade

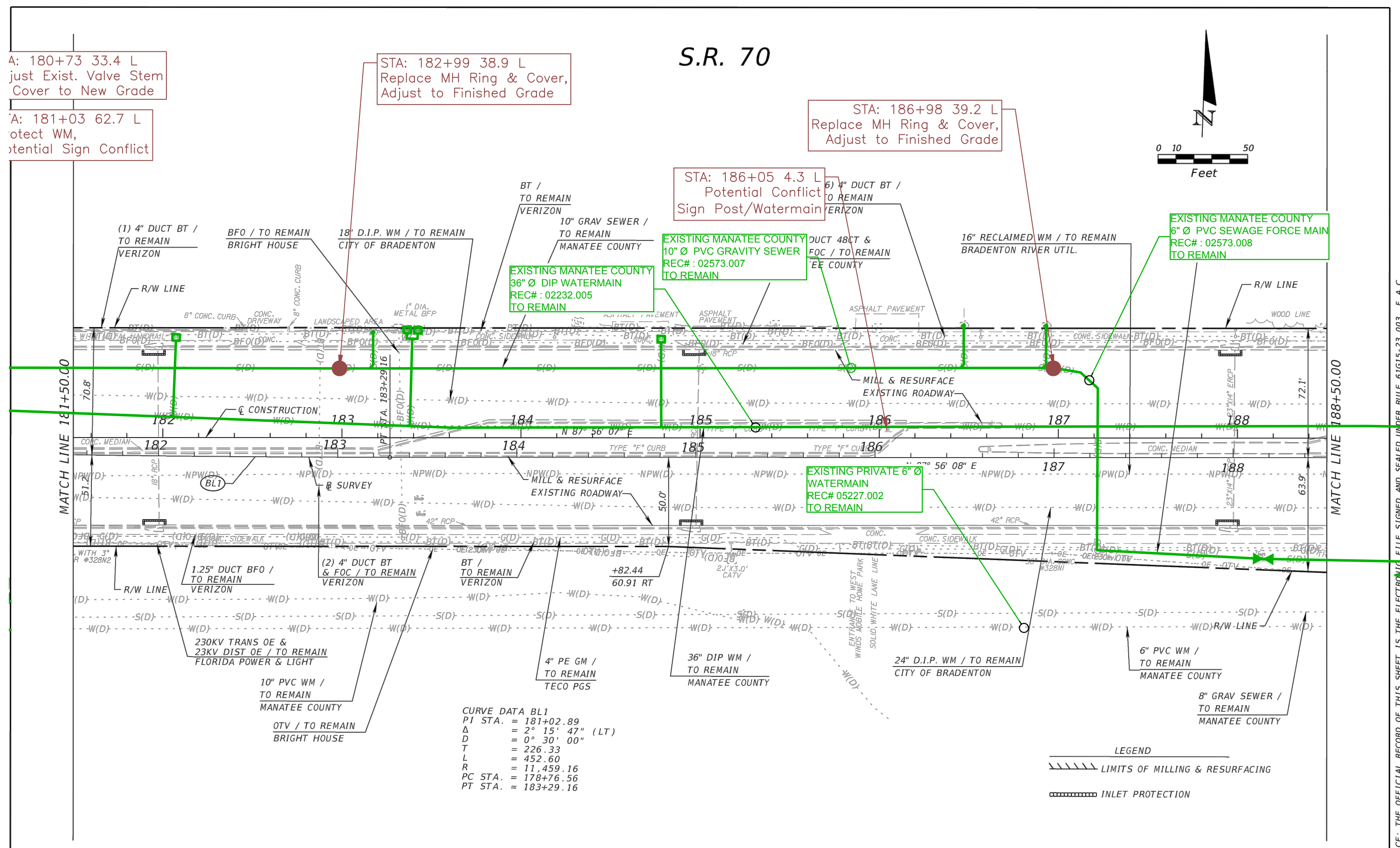
STA: 186+05 4.3 L  
Potential Conflict  
Sign Post/Watermain

EXISTING MANATEE COUNTY  
6" Ø PVC SEWAGE FORCE MAIN  
REC# : 02573.008  
TO REMAIN

EXISTING MANATEE COUNTY  
10" Ø PVC GRAVITY SEWER  
REC# : 02573.007  
TO REMAIN

EXISTING MANATEE COUNTY  
36" Ø DIP WATERMAIN  
REC# : 02232.005  
TO REMAIN

EXISTING PRIVATE 6" Ø  
WATERMAIN  
REC# 05227.002  
TO REMAIN



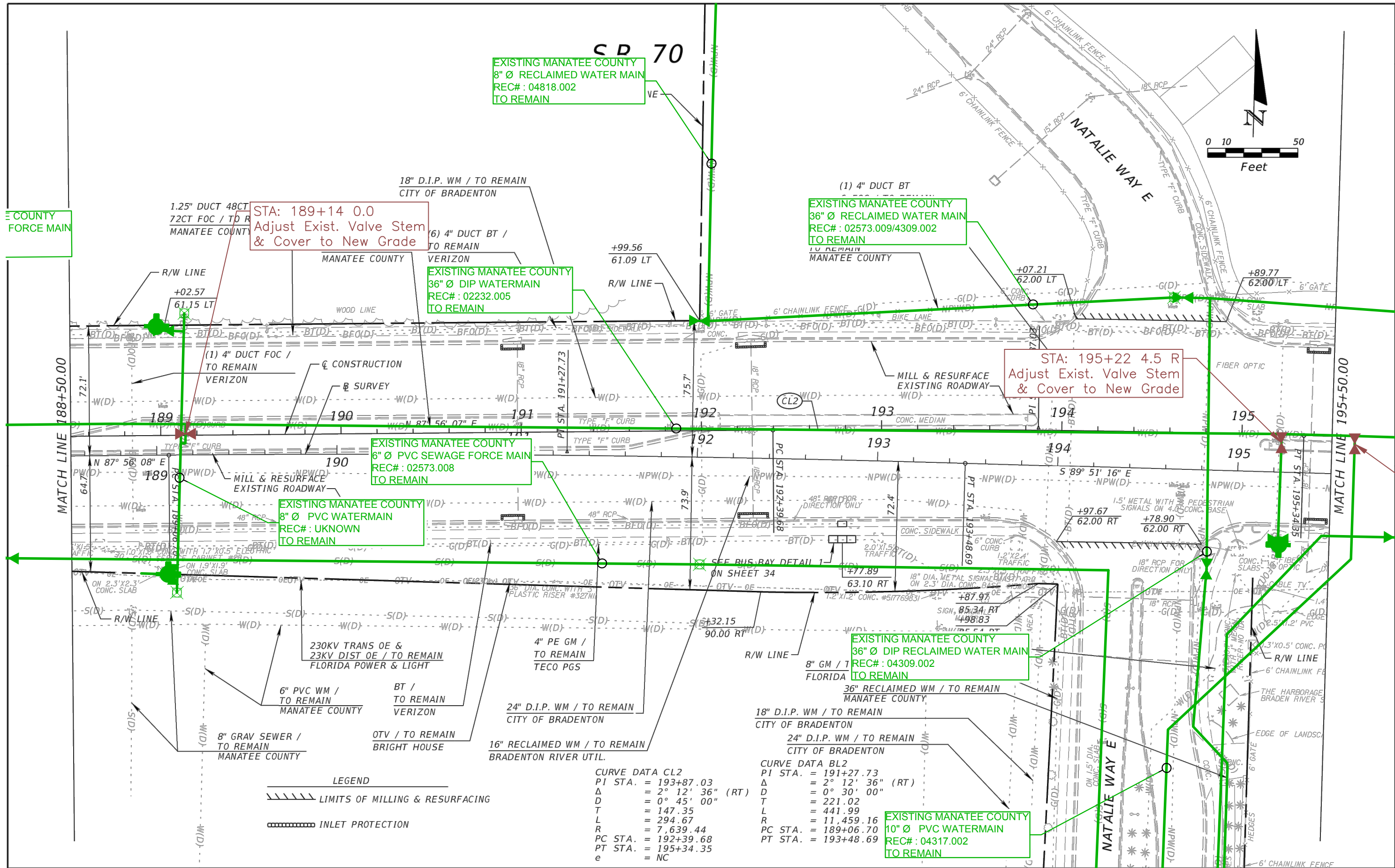
**CURVE DATA BL1**  
 PI STA. = 181+02.89  
 Δ = 2° 15' 47" (LT)  
 D = 0° 30' 00"  
 T = 226.33  
 L = 452.60  
 R = 11,459.16  
 PC STA. = 178+76.56  
 PT STA. = 183+29.16

**LEGEND**  
 LIMITS OF MILLING & RESURFACING  
 INLET PROTECTION

REVISIONS				HORIZON ENGINEERING GROUP, INC. 2603 Maitland Center Pkwy., Suite B Maitland, Florida 32751 Phone: 407-644-7755 Certificate of Authorization No.: 00009544 SCOTT P. SECK, P.E. NO. 53215	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  20
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					70	MANATEE	431373-1-52-01	

## ROADWAY PLAN

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HORIZON ENGINEERING GROUP, INC.  
 2603 Maitland Center Pkwy., Suite B  
 Maitland, Florida 32751  
 Phone: 407-644-7755  
 Certificate of Authorization No.: 00009544  
 SCOTT P. SECK, P.E. NO. 53215

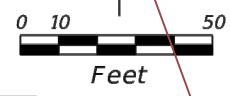
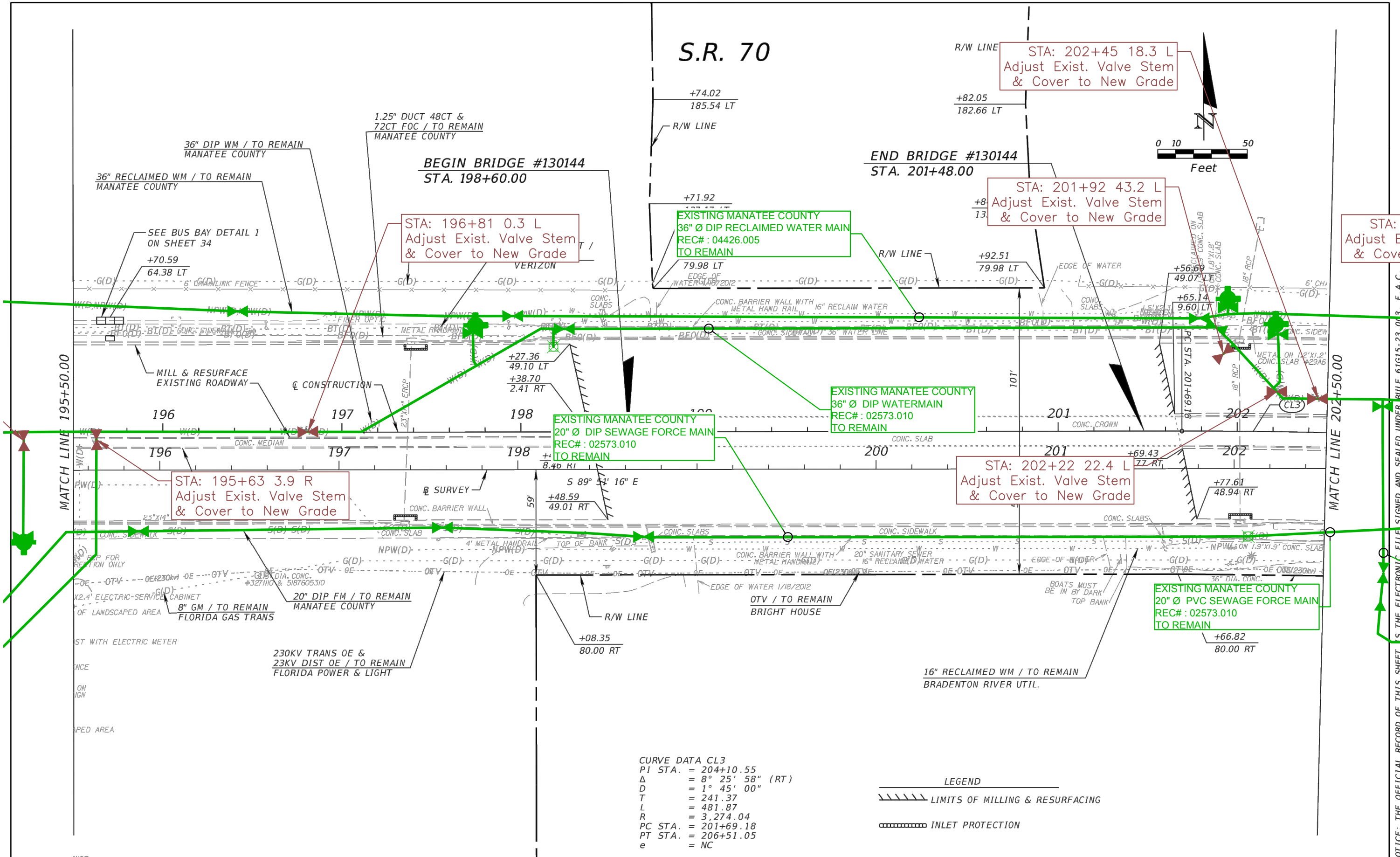
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
70	MANATEE	431373-1-52-01

**ROADWAY PLAN**

SHEET NO. 21

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE. SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

# S.R. 70



**CURVE DATA CL3**  
 PI STA. = 204+10.55  
 Δ = 8° 25' 58" (RT)  
 D = 1° 45' 00"  
 T = 241.37  
 L = 481.87  
 R = 3,274.04  
 PC STA. = 201+69.18  
 PT STA. = 206+51.05  
 e = NC

**LEGEND**  
 LIMITS OF MILLING & RESURFACING  
 INLET PROTECTION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HORIZON ENGINEERING GROUP, INC.  
 2603 Maitland Center Pkwy., Suite B  
 Maitland, Florida 32751  
 Phone: 407-644-7755  
 Certificate of Authorization No.: 00009544  
 SCOTT P. SECK, P.E. NO. 53215

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
70	MANATEE	431373-1-52-01

**ROADWAY PLAN**

SHEET NO.  
**22**

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.