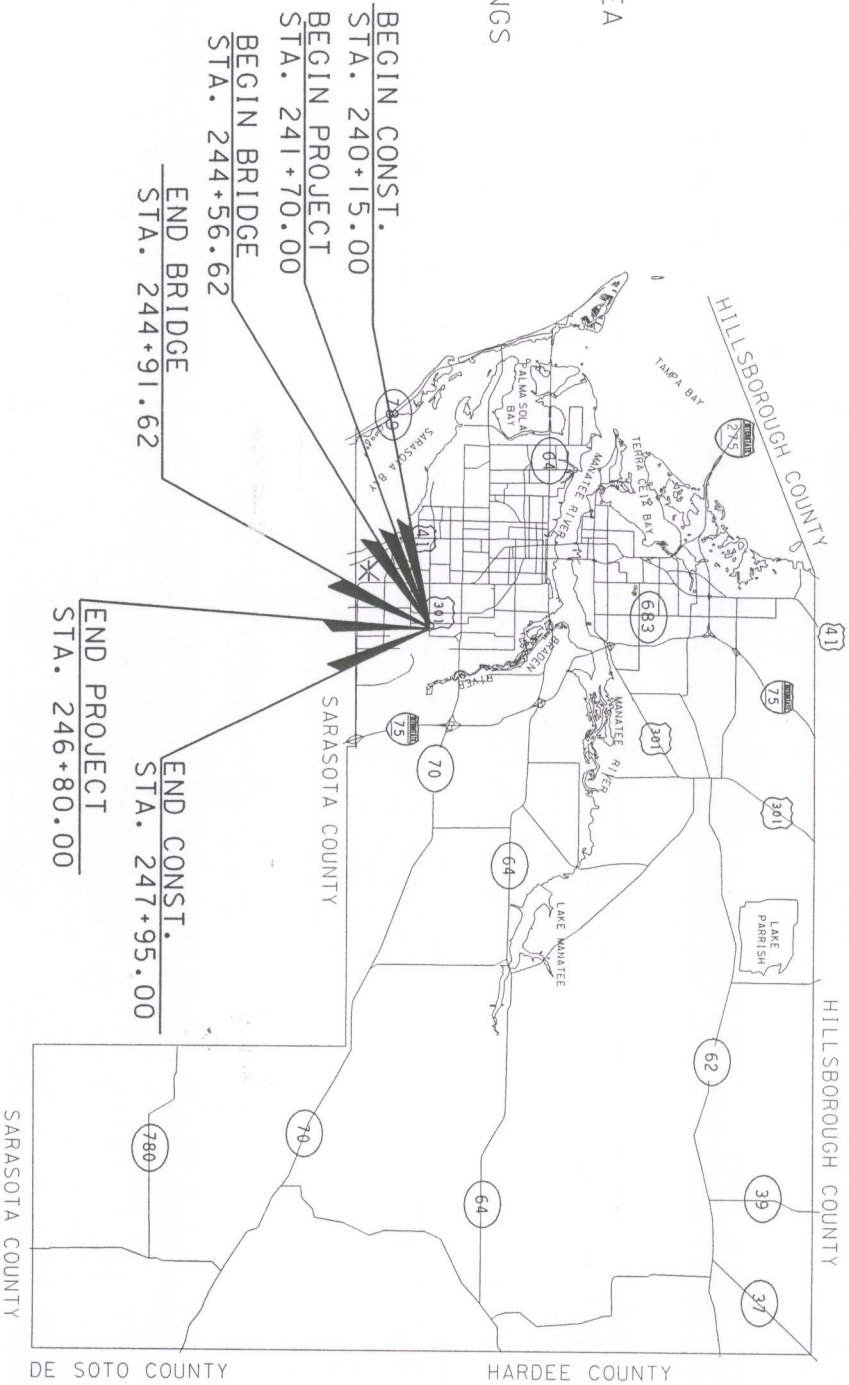


THIS CONTRACT PLANS SET INCLUDES  
ROADWAY PLANS  
STRUCTURE PLANS



MANATEE COUNTY, FLORIDA  
BRIDGE REPLACEMENT - BRIDGE NO. 134042  
63RD AVE EAST (SAUNDERS RD.) OVER PEARCE CANAL  
MANATEE COUNTY PROJECT NO. 3196

NO.	INDEX OF SHEETS
1	KEY SHEET
2	SUMMARY OF PAY ITEMS
3	TYPICAL SECTION
4	SUMMARY OF QUANTITIES
5 - 6	ROADWAY PLAN - PROFILES
7	FLOODPLAIN COMPENSATION AREA
8 - 15	ROADWAY CROSS SECTIONS
16 - 18	DRIVE WAY CROSS SECTIONS
19	SIGNING AND PAVEMENT MARKINGS
20 - 21	UTILITY ADJUSTMENTS
22 - 24	WATER MAIN DETAILS
25	EROSION CONTROL DETAILS
26	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)



GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS DATED JANUARY 2008  
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE  
CONSTRUCTION DATED 2007, AS AMENDED BY  
CONTRACT DOCUMENTS  
MANATEE COUNTY UTILITY STANDARDS AND SPECIFICATIONS  
DATED MARCH 1997, REVISED NOVEMBER 1999, REVISED JUNE 2007

LENGTH OF PROJECT	
	FEET
ROADWAY	745.00
BRIDGES	35.00
NET LENGTH OF PROJ.	780.00
EXCEPTIONS	0.00
GROSS LENGTH OF PROJ.	780.00



PLANS PREPARED BY:  
**WADETRIM**

8745 HENDERSON ROAD, SUITE 220  
TAMPA, FLORIDA 33634  
813.882.8366 FAX 813.884.5990  
CERTIFICATE OF AUTHORIZATION NO. 3952  
ENGINEER OF RECORD: JEFFREY D. TRIM, P.E.  
NOTE: THE SCALE OF THESE PLANS MAY  
HAVE CHANGED DUE TO REPRODUCTION.

MANATEE COUNTY PROJECT MANAGER : MR. WALTER SOWA

ROADWAY PLANS  
ENGINEER OF RECORD: JEFFREY D. TRIM, PE

P. E. NO. 42106

SUMMARY OF PAY ITEMS

SUMMARY OF PAY ITEMS

ITEM NO.	FDOT PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	101-1	MOBILIZATION	LS	1
2	102-1	MAINTENANCE OF TRAFFIC UTILITY COORDINATION	LS	1
3	104-10-2	SYNTHETIC BALE	LF	180
4	104-11	TURBIDITY BARRIER FLOATING	LF	675
5	104-13-1	SILT FENCE STAKED	LF	2050
6	110-1-1	CLEARING AND GRUBBING	LS	1
7	110-3	STRUCTURES, REMOVAL OF EXISTING PAVEMENT, REMOVAL OF EXISTING CONCRETE	LS	1
8	110-4	MAILBOX (F&I)(SINGLE)	EA	85
9	110-7-1	EXCAVATION REGULAR	EA	3
10	120-1	EXCAVATION BORROW (TRUCK MEASURE)	CY	4603
11	120-2-2	STABILIZATION TYPE B	CY	9653
12	121-70	FLOWABLE FILL	CY	19
13	160-4	BASE (OPTIONAL GROUP 6)	SY	4029
14	285-706	MILLING EXISTING ASPHALT PAVEMENT (3/4" AVG. DEPTH)	SY	3753
15	327-70-19	ASPHALTIC CONCRETE TYPE S-III (OR SP 9.5)	TN	636
16	334-1-13	ASPHALT PAVEMENT MISCELLANEOUS	TN	502.1
17	339-1	CONCRETE APPROACH SLABS WITH REINFORCEMENT	EA	2.4
18	360-1	CONCRETE CLASS I (MISCELLANEOUS)	EA	2
19	400-1-15	CONCRETE CLASS IV (SUPERSTRUCTURE)	CY	5
20	400-4-4	CONCRETE CLASS I (SUPERSTRUCTURE)	CY	61
21	400-4-5	CONCRETE CLASS IV (SUPERSTRUCTURE)	CY	130
22	400-7	BRIDGE DECK GROOVING, LESS THAN 8.5"	SY	446
23	400-128	GROUTING PRECAST DECK PANELS (NON SHRINK GROUT)	LF	731
24	415-1-4	REINFORCING STEEL (SUPERSTRUCTURE)	LB	3957
25	415-1-5	REINFORCING STEEL (SUBSTRUCTURE)	LB	25993
26	425-1-521	INLET (DT BOT) (TYPE C) (< 10')	EA	1
27	425-1-541	INLET (DT BOT) (TYPE D) (< 10')	EA	1
28	425-2-41	MANHOLES (J-7) (<10') (CONFLICT STRUCTURE) (INC. DIP & FITTINGS)	EA	1
29	425-2-91	MANHOLES (J-8) (<10')	EA	2
30	425-5	MANHOLE (ADJUST)	EA	3
31	425-6	VALVE BOX (ADJUST)	EA	5
32	425-10	YARD DRAINS	EA	2
33	430-1-75-101	PIPE CONCRETE CULVERT (CLASS II) (18" SS)	LF	14
34	430-1-75-102	PIPE CONCRETE CULVERT (CLASS II) (36" SS)	LF	81
35	430-1-75-103	PIPE CONCRETE CULVERT (CLASS II) (42" SS)	LF	881
36	430-963-01	PIPE PVC (BACK OF SIDEWALK DRAINAGE) (4")	LF	432
37	430-963-01	PIPE PVC (BACK OF SIDEWALK DRAINAGE) (4")	LF	50
38	430-963-01	PIPE PVC (BACK OF SIDEWALK DRAINAGE) (4")	LF	27
39	430-984-138	MITERED END SECTION (CONC. PIPE ROUND) (36" SD)	EA	3
40	450-88-15	PRESTRESSED SLAB UNITS TRANSVERSELY POST TENSIONED	SF	3033
41	455-14-5	PRECAST CONCRETE CORNER PILE (MK-CP1) (4 PIECES)	LF	80
42	455-14-5	PRECAST CONCRETE SHEET PILE (MK-SP-1) (53 PIECES)	LF	1060
43	455-34-3	CONCRETE PILING PRESTRESSED (18" SQUARE)	LF	810
44	455-143-3	TEST PILES (PREST CONCRETE) (18" SQUARE)	LF	90
45	520-1-10	CURB AND GUTTER CONCRETE (TYPE F)	LF	992
46	521-5-1	CONCRETE TRAFFIC RAILING (32" VERTICAL FACE)	LF	70
47	522-1	SIDEWALK CONCRETE (4" THICK)	SY	527
48	522-2	SIDEWALK CONCRETE (6" THICK)	SY	282
49	530-3-3	RIPRAP (RUBBLE) (BANK AND SHORE)	TN	119
50	536-73	GUARDRAIL (REMOVAL)	LF	11
51	570-1-2	PERFORMANCE TURF	SY	6192
52	706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA	62
53	710-11-221	TRAFFIC STRIPE SOLID (PAINT)(WHITE)(8")	LF	1420
54	710-11-124	TRAFFIC STRIPE SOLID (PAINT)(WHITE)(18")	LF	1120
55	711-11-121	TRAFFIC STRIPE SOLID (THERMOPLASTIC)(WHITE)(6")	LF	480
56	711-11-121	TRAFFIC STRIPE SOLID (THERMOPLASTIC)(YELLOW)(6")	LF	1500
57	1050-11-224	UTILITY PVC PIPE (F&I) (C-900) (MR) (DR 18, CLASS 150) (8")	LF	51
58	1050-11-224	UTILITY PVC PIPE (F&I) (C-905) (MR) (DR 18) (16")	LF	470
59	1050-11-324	UTILITY HDPE PIPE (F&I) (SR-9 CLASS 200) (16")	LF	125
60	1050-11-424	UTILITY HDPE PIPE (F&I) (SR-9 CLASS 200) (16")	LF	20
61	1050-16-004	UTILITY PIPE (8" TRANSITE AC)(REMOVE AND DISPOSE)	LF	531
62	1050-18-004	UTILITY PIPE (8" TRANSITE AC)(PLUG & PLACE OUT OF SERVICE)	LF	75
63	1055-11-214	UTILITY PVC FITTINGS (F&I) WATER 8" ELBOW (90°)	EA	2

ITEM NO.	FDOT PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
64	1055-11-214	UTILITY PVC FITTINGS (F&I) WATER 16" ELBOW (45°)	EA	2
65	1055-11-224	UTILITY PVC FITTINGS (F&I) WATER 16"x8" TEE	EA	2
66	1055-11-254	UTILITY PVC FITTINGS (F&I) WATER 16" PLUG	EA	2
67	1055-11-314	UTILITY HDPE FITTINGS (F&I) WATER 16" ELBOW (45°)	EA	3
68	1080-11-404	VALVE ASSEMBLY GATE (F&I) (8")	EA	2
69	1080-11-404	VALVE ASSEMBLY BUTTERFLY (F&I) (16")	EA	2
70	1080-11-406	AIR RELEASE VALVE ASSEMBLY (F&I) (16")	EA	2
71	1644-133-08	FIRE HYDRANT (F&I) (TRAFFIC) (2 HOSE) (1 PUMP) (6")	AS	2
72	1698-199	SERVICE CONNECTIONS	EA	1
73		MISCELLANEOUS WORK AND CLEANUP	EA	1

PAY ITEM NOTES:

110-3 STRUCTURES, REMOVAL OF EXISTING STRUCTURES, REMOVAL OF EXISTING CONCRETE BRIDGE, INCLUDING BUT NOT LIMITED TO, PILES, ABUTMENTS, RETAINING WALLS AND RIP RAP.

110-4 PAVEMENT, REMOVAL OF EXISTING PAVEMENT, ESTIMATED 85 SY OF SIDEWALK REMOVAL.

334-1-13 ASPHALTIC CONCRETE TYPE S-III TYPE SP-9.5 (TRAFFIC LEVEL C) CAN BE SUBSTITUTED AT NO ADDITIONAL COST. INCLUDES 89.6 TONS FOR OVERBUILD.

400-1-15 CONCRETE CLASS I (MISCELLANEOUS) INCLUDES 5 CY FOR MISCELLANEOUS CONSTRUCTION AS DIRECTED BY THE ENGINEER.

450-88-15 PRESTRESSED SLAB UNITS TRANSVERSELY POST TENSIONED PRESTRESSED SLAB UNITS SHALL INCLUDE THE COST OF THE POST TENSIONING SYSTEM AND THE NON-SHRINK GROUT REQUIRED FOR ASSEMBLY.

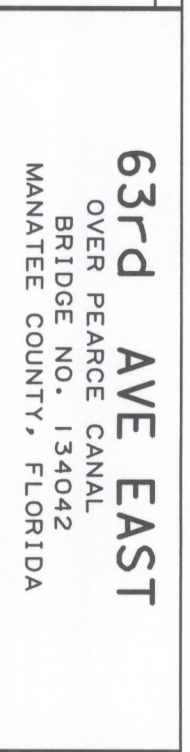
455-34-3 CONCRETE PILING (18") ALL PILES WILL BE PAID FOR BASED ON THE LENGTH OF PILING FURNISHED AND DRIVEN (MEASURED FROM TIP TO CUT-OFF), THE COUNTY WILL INCUR THE COST OF THE PDA TESTING REQUIRED TO DEVELOP THE DRIVING CRITERIA. ANY REQUIRED PILE SPLICES SHALL BE INCIDENTAL.

522-2 SIDEWALK CONCRETE (6" THICK) SHALL INCLUDE THE COST OF WELDED WIRE FABRIC REINFORCEMENT

530-3-3 RIPRAP (RUBBLE) (BANK AND SHORE) SHALL INCLUDE THE COST TO DIP FILTER FABRIC.

DESIGNED BY	DMS	DATE	5/98
CHECKED BY	KLM	DATE	5/98
DRAWN BY	RLS	DATE	5/98
CHECKED BY	KLM	DATE	5/98
SUPERVISED BY	JEFFREY D. TRIM, P.E. #42106		

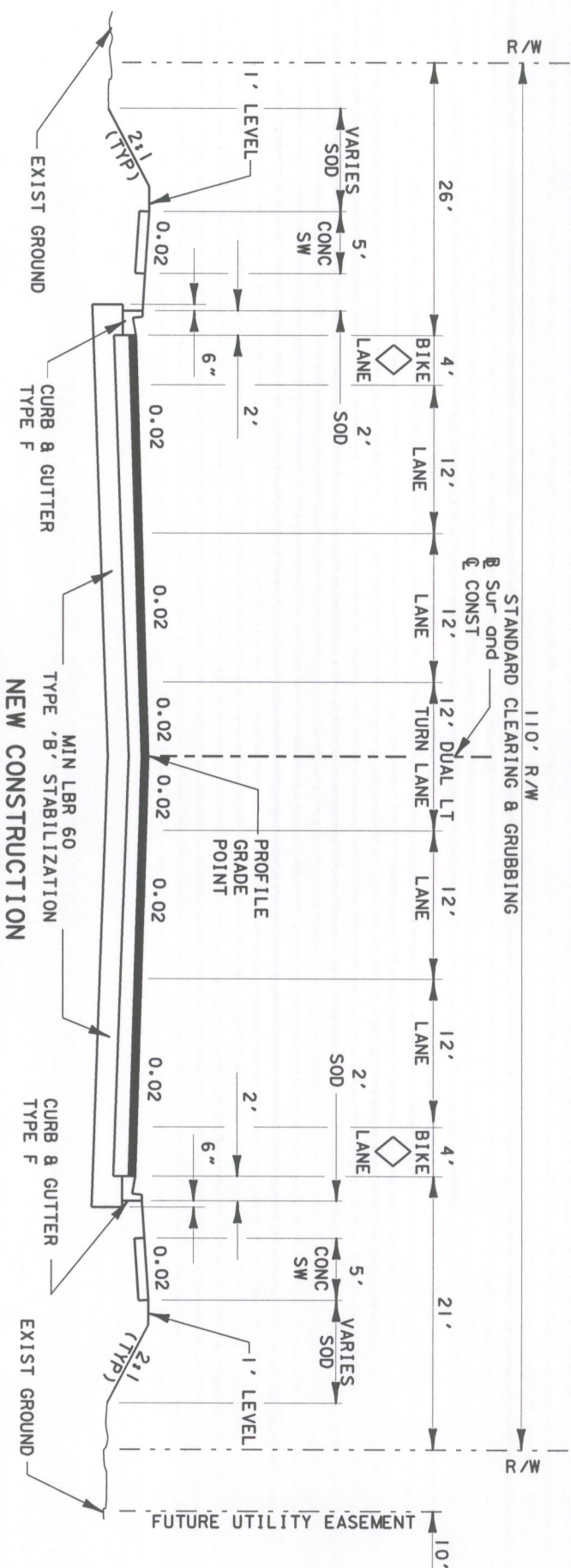
REVISION DESCRIPTION & DATE	BY NO.	PUBLIC WORKS DEPT
ADDED ARV'S. TO WM CRG C-900 TO C-905	ALS	



63rd AVE EAST  
OVER PEARCE CANAL  
BRIDGE NO. 134042  
MANATEE COUNTY, FLORIDA

ENGINEER OF RECORD	JEFFREY D. TRIM, P.E. NO. 42106
Proj. No.	3196
Dwg. Date	

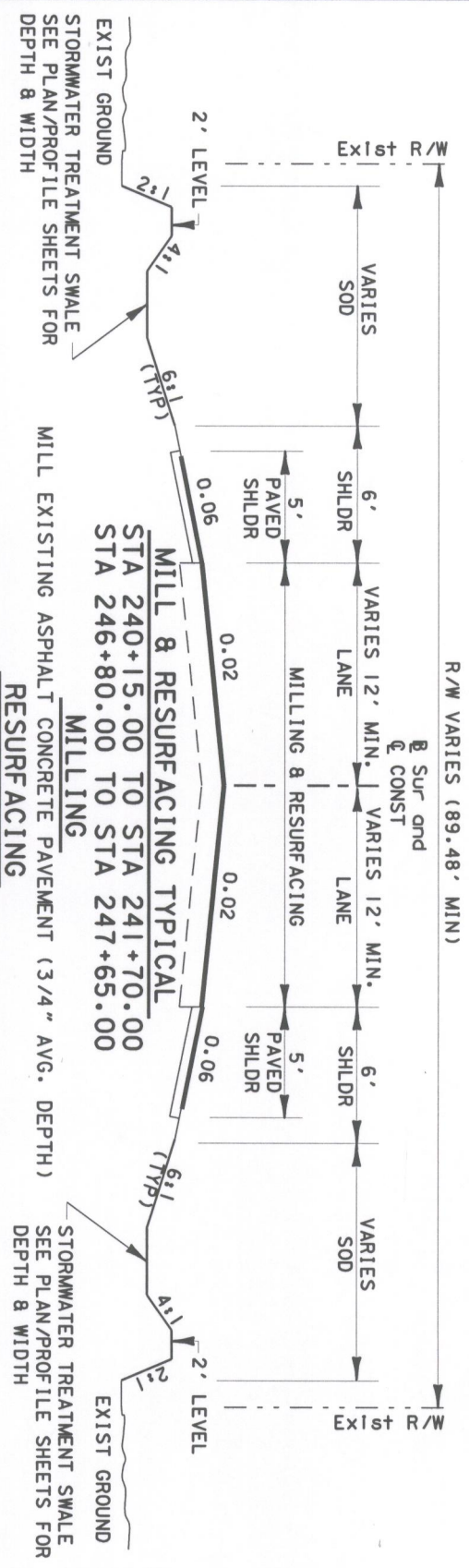
SUMMARY OF PAY ITEMS



STA 241+70.00 TO STA 244+56.62  
 STA 244+91.62 TO STA 246+80.00  
 CONSTRUCT OPTIONAL BASE GROUP 6  
 TYPE S-111 (OR SP-9.5) ASPH. CONC. (2 IN. AVG.)

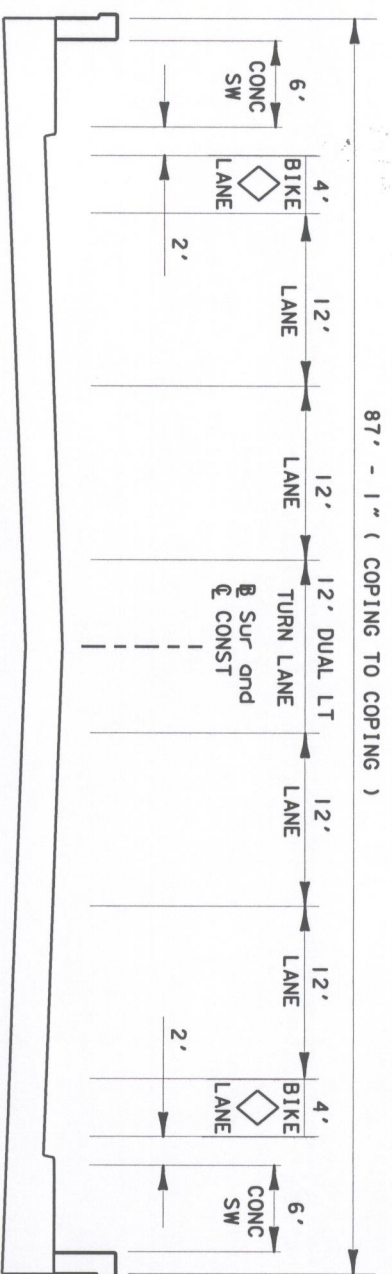
**TYPICAL SECTION NOTES**

1. CONSTRUCT TYPE S-111 (OR SP-9.5) OVERBUILD FROM STA. 240+15 TO STA. 241+70 AND FROM STA. 246+80 TO STA. 247+65 TO ACHIEVE AN 0.02 CROSS SLOPE PER THE ROADWAY PLAN/PROFILE AND CROSS SECTION SHEETS.
2. PAVED SHOULDER CROSS-SLOPE SHALL TRANSITION FROM 0.06 TO 0.02 AT THE LIMITS OF NEW CONSTRUCTION.



CONSTRUCT TYPE S-111 (OR SP-9.5) OVERBUILD COURSE (280 LBS/S.Y. AVG.)  
 AND CONSTRUCT TYPE S-111 (OR SP-9.5) ASPH. CONC. (75 LBS/S.Y. AVG.)

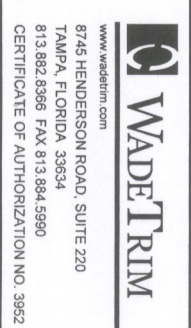
BRIDGE TYPICAL SECTION  
 STA 244+56.62 TO STA 244+91.62



DESIGNED BY	DMS	DATE	5/98	REVISION DESCRIPTION & DATE	BY NO.	PUBLIC WORKS DEPT
CHECKED BY	KLM	DATE	5/98			
DRAWN BY	RLS	DATE	5/98			
CHECKED BY	KLM	DATE	5/98			
SUPERVISED BY	JEFFREY D. TRIM, P.E. #42106					



**63rd AVE EAST**  
 OVER PEARCE CANAL  
 BRIDGE NO. 134042  
 MANATEE COUNTY, FLORIDA



ENGINEER OF RECORD  
 Jeffrey D. Trim, PE No. 42106

Proj. No. 3196  
 Dwg. Date  
**TYPICAL SECTION**

### SUMMARY OF DRAINAGE STRUCTURES

QUANTITY	STR. NO.	INDEX NO.	STATION	SIZE	DESCRIPTION	LENGTH	STORM SEWER PIPE	STORM SEWER PIPE	STORM SEWER PIPE	STORM SEWER PIPE	STORM SEWER PIPE	DBI TYPE	DBI TYPE	MH	MH	SD	YARD	REMARKS	
							4" PVC	15" PVC	18" RCP	36" RCP	42" RCP			J-7	J-8	36" MES	DRAIN		
P	S-1	232	241+00.00	LT	DBI, PIPE	36"	137'												CONNECT EXISTING 30" AND 8" PIPES
F	S-2	273	240+58.56	RT	MES, PIPE	36"	176'												
F	S-3		241+51.50	LT	PIPE	4"	50'												
F	S-4	280,282	241+80.00	LT	YARD DRAIN	15"	15'												
F	S-5	200,201,280	242+40.00	LT	MH, PIPE	42"	222'												42" PIPE GOES THROUGH WEST BRIDGE ABUTMENT
F	S-6	200,201	242+40.00	RT	MH, PIPE	42"	210'												42" PIPE GOES THROUGH WEST BRIDGE ABUTMENT
F	S-7	280,282	242+55.00	LT	YARD DRAIN	15"	12'												
F	S-8	232,280	243+50.00	LT	DBI, PIPE	18"	14'												
F	S-9	273	247+79.75	LT	MES, PIPE	36"	280'												36" PIPE GOES THROUGH EAST BRIDGE ABUTMENT
F	S-10	273	247+76.60	RT	MES, PIPE	36"	288'												36" PIPE GOES THROUGH EAST BRIDGE ABUTMENT
F	S-11	200, 201	245+55.45	RT	MH	36"	288'												CONFLICT STRUCTURE W/20 LF DIP CLASS 50
<b>TOTALS</b>																			
<b>P-PLAN QUANTITY</b>																			
<b>F-FINAL QUANTITY</b>																			

#### SUMMARY OF SODDING

LOCATION STA. TO STA.	SIDE	P SQ.YD.	F SQ.YD.	FIELD BOOK REFERENCE
240+15.00 TO 247+65	LT	1,219		
240+15.00 TO 247+95	RT	1,569		
FLOODPLAIN COMP. AREA	LT	2,841		
<b>TOTALS :</b>		5,629		
<b>+10% CONTINGENCY</b>		6,192		

#### SUMMARY OF MAILBOXES

LOCATION STATION	SIDE	P EA.	F EA.
240+30.00	LT	1	
242+50.00	LT	1	
244+20.00	LT	1	
<b>TOTALS</b>		3	

#### SUMMARY OF MANHOLE ADJUSTMENTS

LOCATION STATION	SIDE	P EA.	F EA.
240+40.00	RT	1	
244+00.00	RT	1	
245+60.00	RT	1	
<b>TOTALS</b>		3	



#### SUMMARY OF VALVE BOX ADJUSTMENTS

LOCATION STATION	SIDE	P EA.	F EA.
245+91.00	RT	1	
<b>TOTALS</b>		1	

#### SUMMARY OF EARTHWORK

DESCRIPTION	P CU.YD.	F CU.YD.
ROADWAY EXCAVATION	6	
EXCAV FROM FLOODPLAIN COMPENSATION	4,547	
CHANNEL EXCAVATION	50	
<b>TOTAL REGULAR EXCAVATION</b>	<b>4,603</b>	
ROADWAY FILL		5,720
FILL ADJUSTMENT (35%)		2,002
<b>TOTAL FILL</b>		<b>7,722</b>
EXCAVATION BORROW (TRUCK MEASURE)		7,722
TRUCK ADJUSTMENT (25%)		1,931
<b>TOTALS</b>		<b>9,653</b>

EARTHWORK HAS BEEN CALCULATED USING THE LIMEROCK BASE OPTION. IF ANOTHER OPTION IS CONSTRUCTED, THERE SHALL BE NO REVISION TO EARTHWORK QUANTITIES FOR WHICH PAYMENT IS MADE BY PLAN QUANTITY.

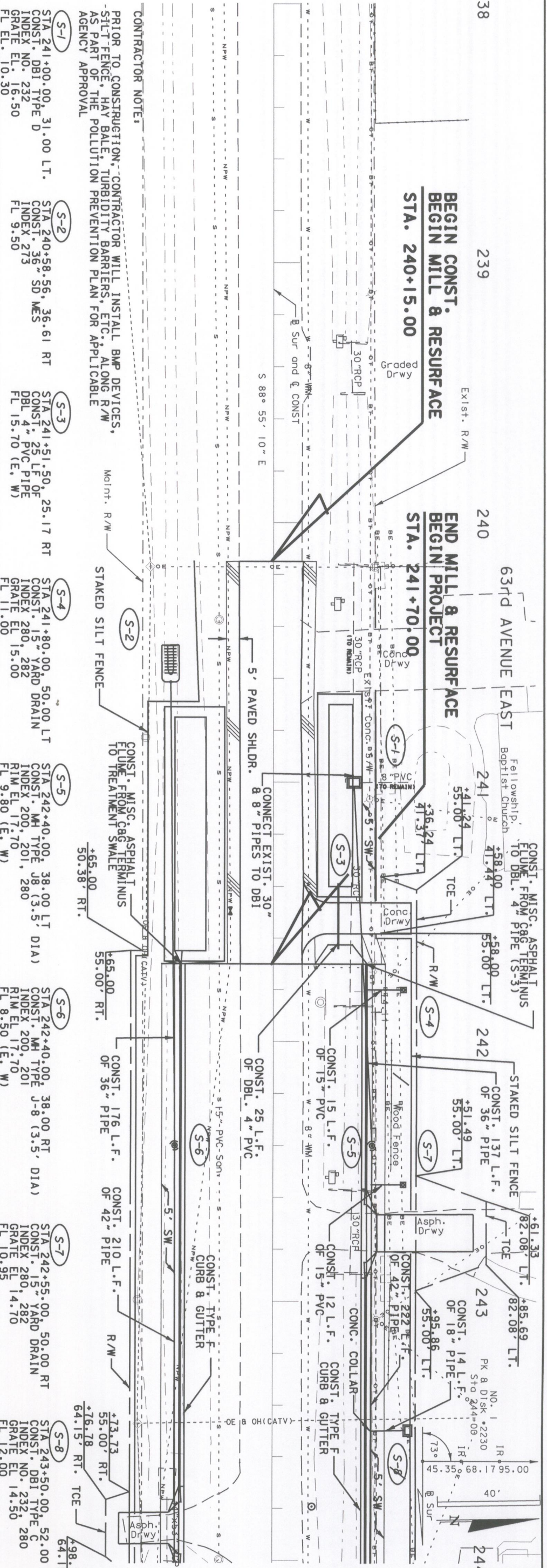
DESIGNED BY DMG	DATE 5/98	REVISION DESCRIPTION & DATE	BY NO.	PUBLIC WORKS DEPT	 <b>63rd AVE EAST</b> OVER PEARCE CANAL BRIDGE NO. 134042 MANATEE COUNTY, FLORIDA	 <b>WAADTRIM</b> 8745 HENDERSON ROAD, SUITE 220 TAMPA, FLORIDA 33634 813.862.8396 FAX 813.884.5990 CERTIFICATE OF AUTHORIZATION NO. 3952	ENGINEER OF RECORD Jeffrey D. Trim, P.E. No. 42106	Proj. No. 3196	<b>SUMMARY OF QUANTITIES</b>
CHECKED BY KLM	DATE 5/98			Dwg. Date					
DRAWN BY RLS	DATE 5/98								
CHECKED BY KLM	DATE 5/98								
SUPERVISED BY JEFFREY D. TRIM, P.E. #42106									

238 239 240 241 242 243 244

BEGIN CONST. & RESURFACE  
STA. 240+15.00

END MILL & RESURFACE  
STA. 241+70.00

63rd AVENUE EAST  
Fellowship Baptist Church



**CONTRACTOR NOTE:**  
PRIOR TO CONSTRUCTION, CONTRACTOR WILL INSTALL BMP DEVICES, SILT FENCE, HAY BALE, TURBIDITY BARRIERS, ETC., ALONG R/W AS PART OF THE POLLUTION PREVENTION PLAN FOR APPLICABLE AGENCY APPROVAL

- (S-1) STA 241+00.00 - 31.00 LT. CONST. DBI TYPE D INDEX NO. 232 GRATE EL. 16.50 FL EL. 10.30
- (S-2) STA 240+58.56 - 36.61 RT. CONST. 25 L.F. OF DBL 4" PVC PIPE FL 15.70 (E. W)
- (S-3) STA 241+51.50 - 25.17 RT. CONST. 15 YARD DRAIN INDEX 280, 282 RIM EL 17.70 FL 9.80 (E. W)
- (S-4) STA 241+80.00 - 50.00 LT. CONST. 15 YARD DRAIN INDEX 280, 282 RIM EL 17.70 FL 9.80 (E. W)
- (S-5) STA 242+40.00 - 38.00 LT DIA) CONST. 176 L.F. OF 36" PIPE OF 42" PIPE
- (S-6) STA 242+40.00 - 38.00 RT DIA) CONST. 15 L.F. OF 15" PVC OF DBL. 4" PVC
- (S-7) STA 242+55.00 - 50.00 RT CONST. 15 YARD DRAIN INDEX 280, 282 GRATE EL 14.70 FL 10.95
- (S-8) STA 243+50.00 - 52.00 LT CONST. DBI TYPE C INDEX NO. 232 GRATE EL 14.50 FL 12.00

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL BE REMOVED, UNLESS OTHERWISE NOTED.			2	ANY PUBLIC LAND CORNER 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 PROJECT ENGINEER SHOULD NOTIFY THE MANATEE COUNTY SURVEY MANAGER, WITHOUT DELAY, BY TELEPHONE.		
2	EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH (MINIMUM 12" AT R/W LINE), UNLESS OTHERWISE SHOWN IN THE PLANS.			3	THE CONTRACTOR SHALL NOTIFY "SUNSHINE STATE ONE-CALL" AT 1-800-432-4770 48 HOURS PRIOR TO ANY EXCAVATION.		
3	THE CONTRACTORS ATTENTION IS DIRECTED TO THE SPECIAL PROVISIONS OF THIS CONTRACT WHICH REQUIRE THE PREPARATION AND APPROVAL OF AN EROSION CONTROL PLAN THAT ADDRESSES THE PREVENTION, CONTROL, AND ABATEMENT OF WATER POLLUTION.			4	THIS CONTRACT WHICH ADDRESSES THE PREVENTION, CONTROL, AND ABATEMENT OF WATER POLLUTION.		
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DESIGNED BY: DMS DATE: 5/98  
 CHECKED BY: KLM DATE: 5/98  
 DRAWN BY: RLS DATE: 5/98  
 CHECKED BY: KLM DATE: 5/98  
 SUPERVISED BY: JEFFREY D. TRIM, P.E. #42106

REVISION DESCRIPTION & DATE

BY NO. PUBLIC WORKS DEPT

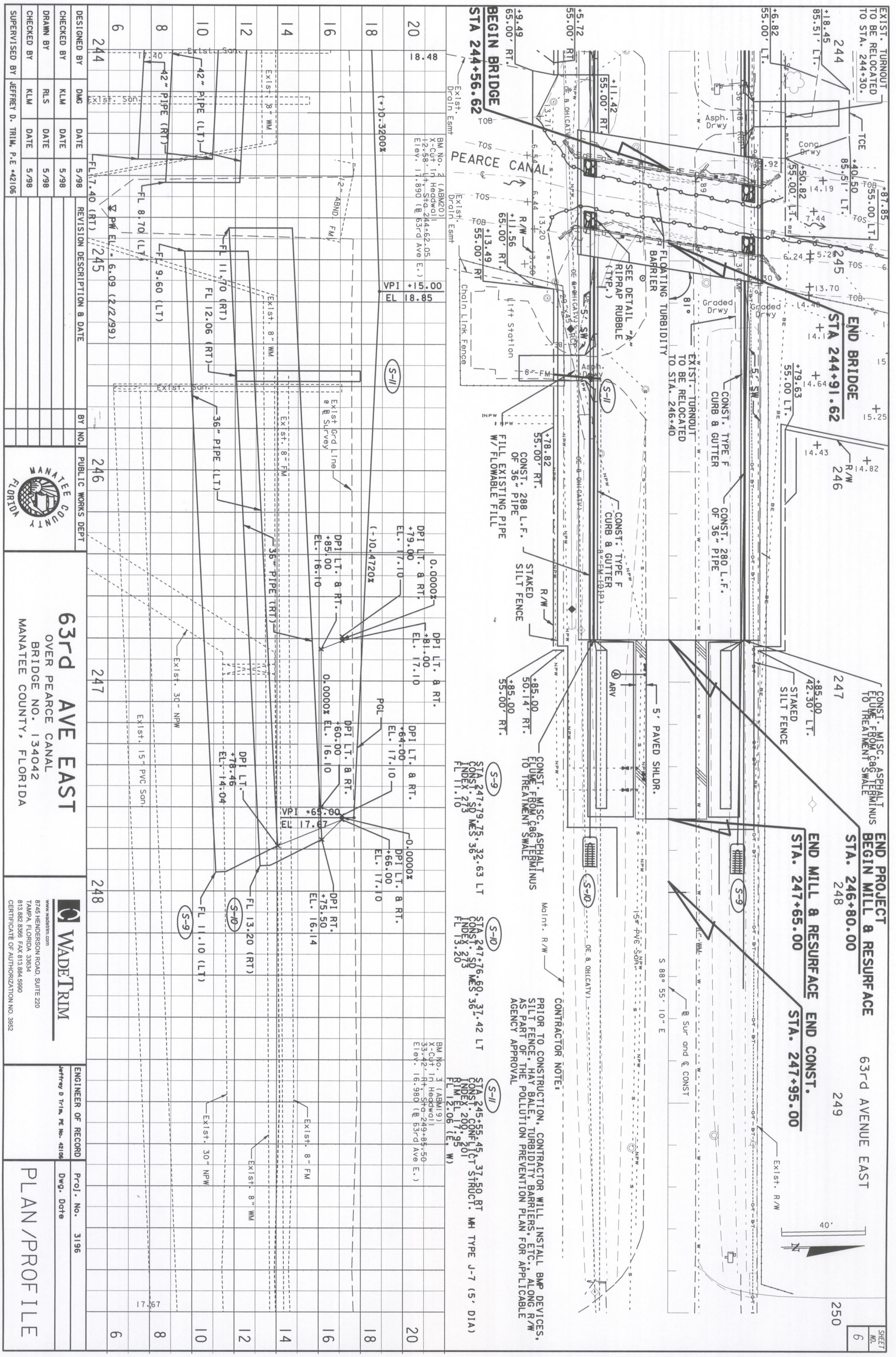
63rd AVE EAST  
 OVER PEARCE CANAL  
 BRIDGE NO. 134042  
 MANATEE COUNTY, FLORIDA

WADETRIM  
 8745 HENDERSON ROAD, SUITE 220  
 TAMPA, FLORIDA 33634  
 813 882 8368 FAX 813 884 5990  
 CERTIFICATE OF AUTHORIZATION NO. 3852

ENGINEER OF RECORD: Jeffrey D. Trim, P.E. No. 42106  
 Proj. No. 3196  
 Dwg. Date

PLAN/PROFILE





DESIGNED BY	DWG	DATE	5/98	REVISION DESCRIPTION & DATE	BY NO.	246	PUBLIC WORKS DEPT	<p><b>63rd AVE EAST</b> OVER PEARCE CANAL BRIDGE NO. 134042 MANATEE COUNTY, FLORIDA</p>	<p>8745 HENDERSON ROAD, SUITE 220 TAMPA, FLORIDA 33634 813 882 8566 FAX 813 884 5990 CERTIFICATE OF AUTHORIZATION NO. 3982</p>	ENGINEER OF RECORD	JEFFREY D. TRIM, P.E. No. 42106	Proj. No.	3196
CHECKED BY	KLM	DATE	5/98				DWG. Date						
DRAWN BY	RLS	DATE	5/98										
CHECKED BY	KLM	DATE	5/98										
SUPERVISED BY	JEFFREY D. TRIM, P.E.		42106					PLAN/PROFILE					

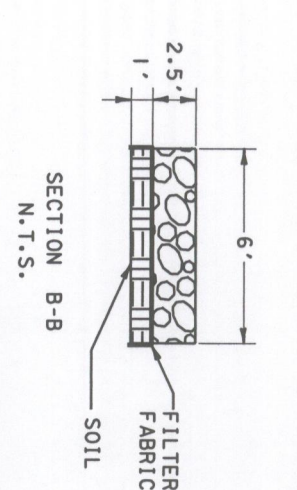
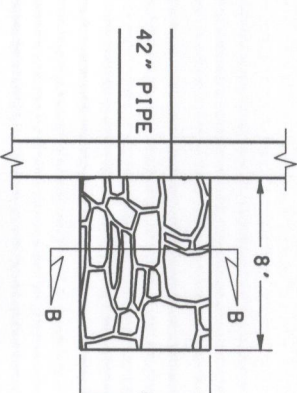
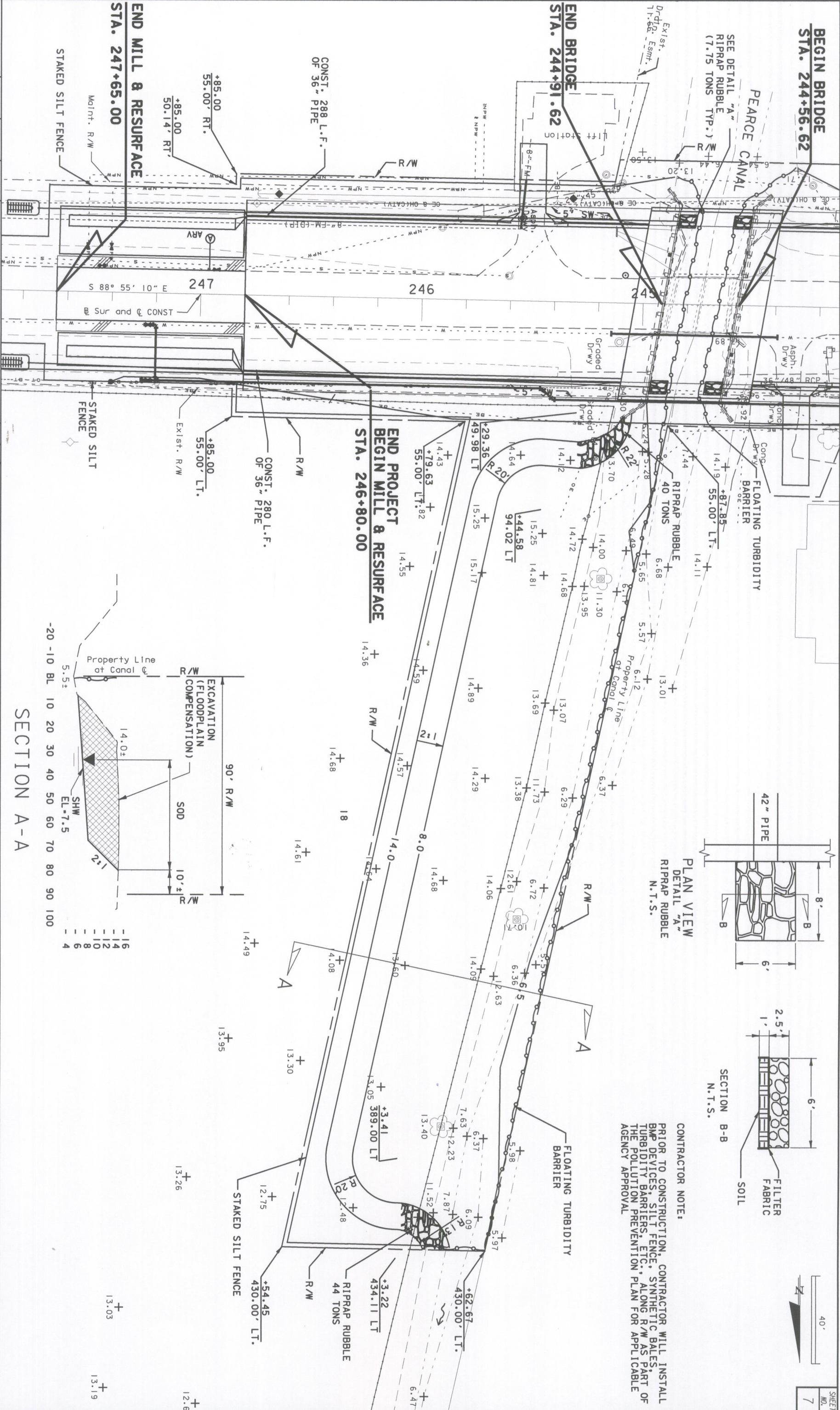
**BEGIN BRIDGE**  
**STA. 244+56.62**

SEE DETAIL "A"  
RIPRAP RUBBLE  
(7.75 TONS TYP.)

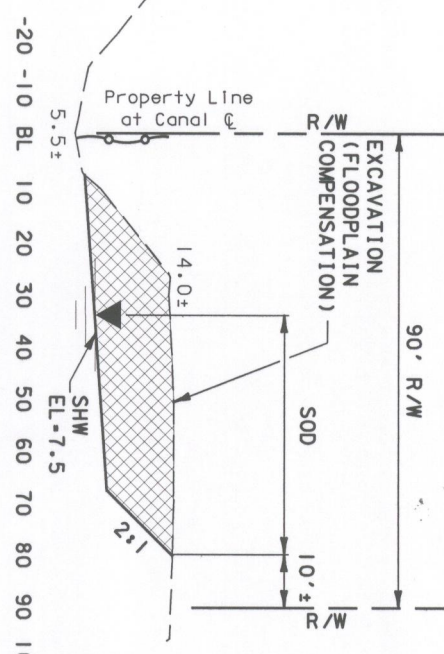
**END BRIDGE**  
**STA. 244+91.62**

**END MILL & RESURFACE**  
**STA. 247+65.00**

**END PROJECT**  
**BEGIN MILL & RESURFACE**  
**STA. 246+80.00**



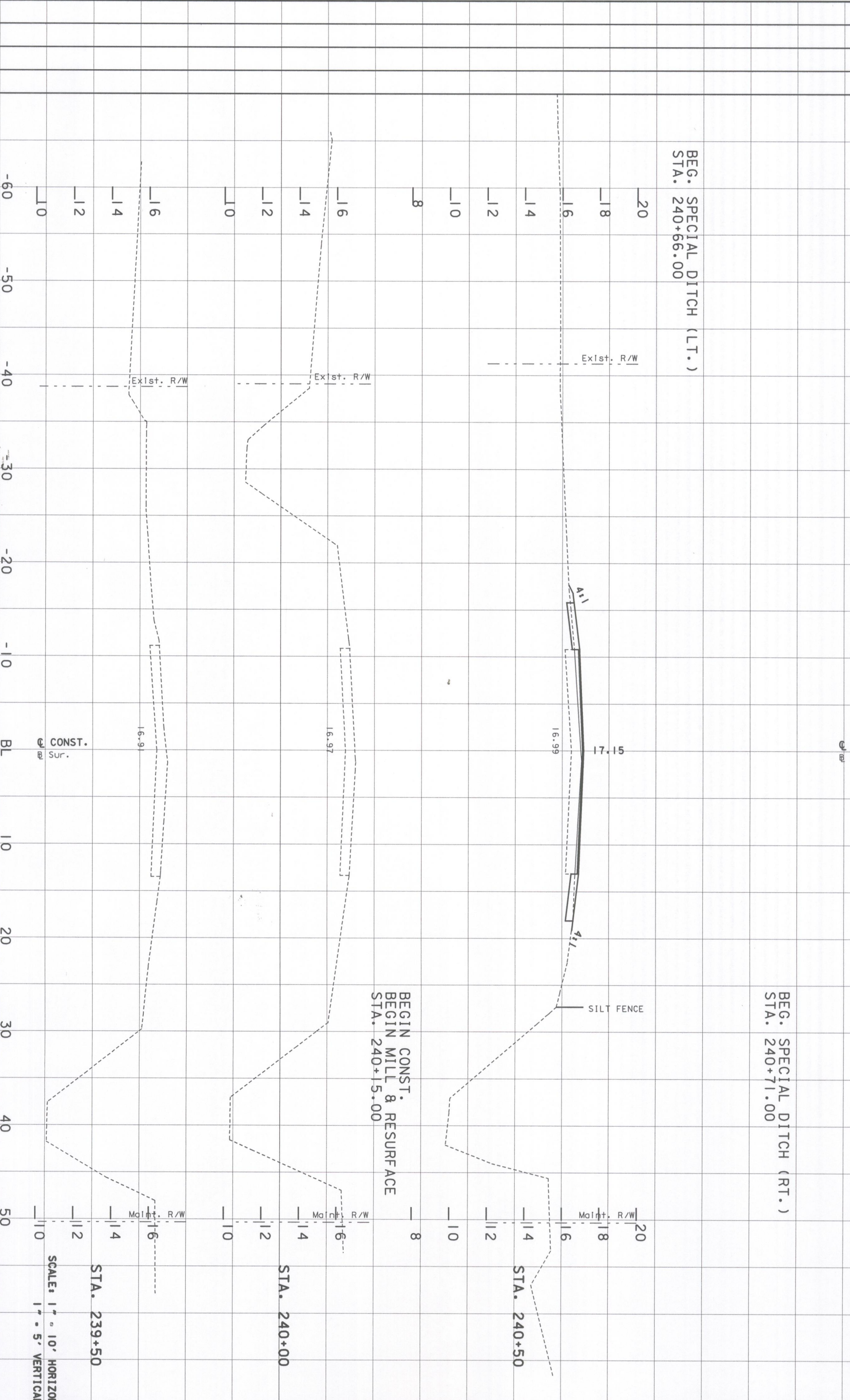
**CONTRACTOR NOTE:**  
PRIOR TO CONSTRUCTION, CONTRACTOR WILL INSTALL BMP DEVICES, SILT FENCE, SYNTHETIC BALES, TURBIDITY BARRIERS, ETC., ALONG R/W AS PART OF THE POLLUTION PREVENTION PLAN FOR APPLICABLE AGENCY APPROVAL



SECTION A-A

DESIGNED BY	DMS	DATE	5/98	REVISION DESCRIPTION & DATE	BY NO.	PUBLIC WORKS DEPT		<p><b>63rd AVE EAST</b> OVER PEARCE CANAL BRIDGE NO. 134042 MANATEE COUNTY, FLORIDA</p>	ENGINEER OF RECORD	Proj. No.	3196	<p><b>FLOODPLAIN COMPENSATION AREA</b></p>
CHECKED BY	KLM	DATE	5/98	I/13/06 - ADDED MITIGATION LANDSCAPING	ALS I				Jeffrey D Trim, PE No. 42106	Dwg. Date		
DRAWN BY	RLS	DATE	5/98									
CHECKED BY	KLM	DATE	5/98									
SUPERVISED BY	JEFFREY D. TRIM, P.E. #42106											

A-7 MATL	
SUBS EXC	RDWY EXC
A	V
A	V



SHEET NO. 8	
UNCLASS. MATL.	A-2, A-3
RDWY EXC	FILL
A	V
A	V

DESIGNED BY	DWG	DATE	5/98
CHECKED BY	KLM	DATE	5/98
DRAWN BY	RLS	DATE	5/98
CHECKED BY	KLM	DATE	5/98
SUPERVISED BY	JEFFREY D. TRIM, P.E. #42106		

REVISION DESCRIPTION & DATE	BY NO.



**63rd AVE. EAST**  
 OVER PEARCE CANAL  
 BRIDGE NO. 134042  
 MANATEE COUNTY, FLORIDA

**WADETRIM**  
 www.wadetrin.com  
 8745 HENDERSON ROAD, SUITE 220  
 TAMPA, FLORIDA 33634  
 813.882.8366 FAX 813.984.6990  
 CERTIFICATE OF AUTHORIZATION NO. 3952

ENGINEER OF RECORD	Jeffrey D. Trim, PE No. 42106
Proj. No.	134042
Dwg. Date	

**CROSS SECTIONS**

SCALE: 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

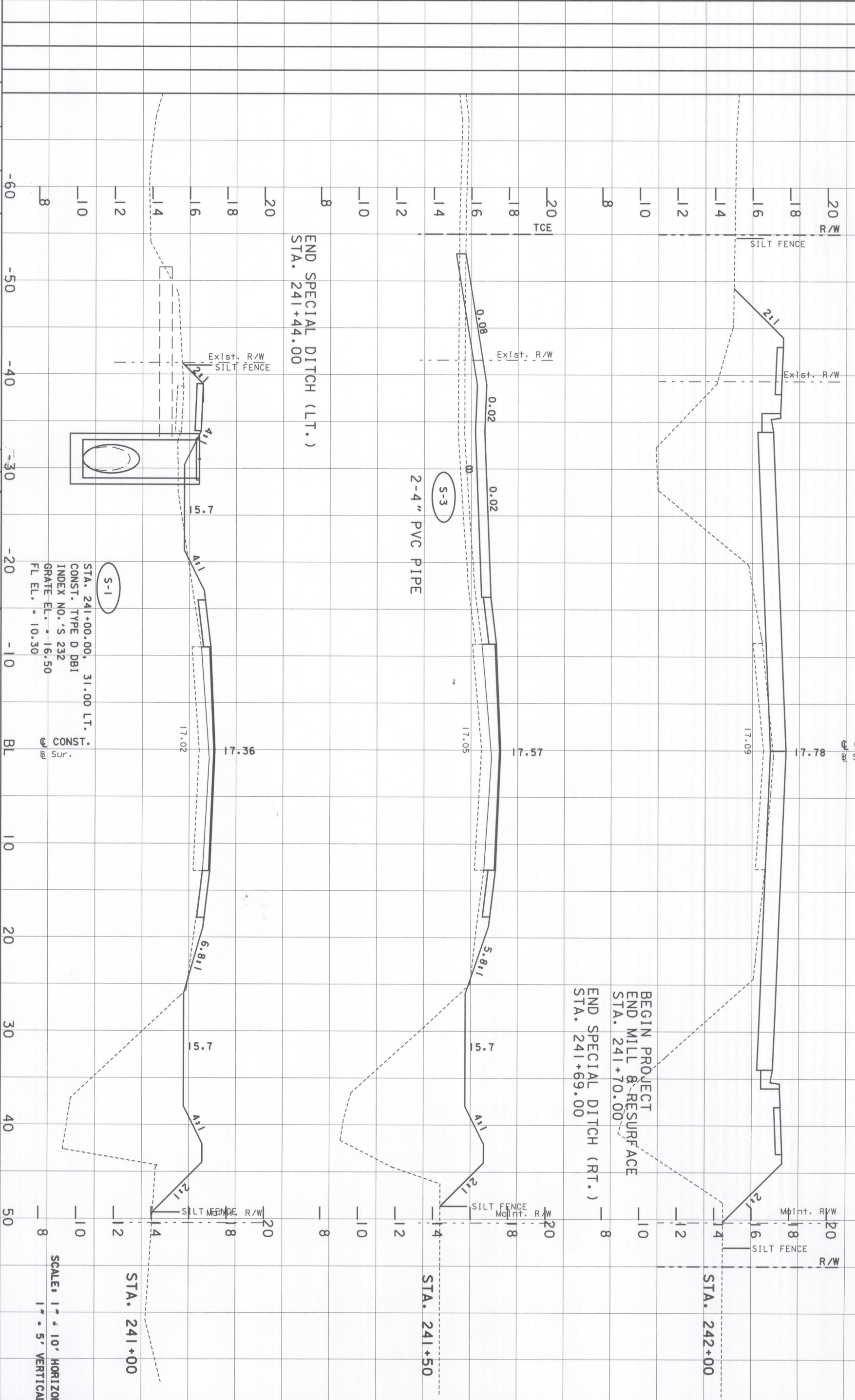
STA. 239+50

STA. 240+00

STA. 240+50



A-7	MATL
SUBS	EXC
ROW	EXC
A	V
A	V



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DESIGNED BY	DMS	DATE	5/98	REVISION DESCRIPTION & DATE	BY NO.	PUBLIC WORKS DEPT
CHECKED BY	KLM	DATE	5/98			
DRAWN BY	RLS	DATE	5/98			
CHECKED BY	KLM	DATE	5/98			
SUPERVISED BY	JEFFREY D. TRIM, P.E.	DATE	4/21/06			



**63rd AVE. EAST**  
 OVER PEARCE CANAL  
 BRIDGE NO. 134042  
 MANATEE COUNTY, FLORIDA



ENGINEER OF RECORD  
 Jeffrey D. Trim, P.E. No. 42106

**CROSS SECTIONS**

STA. 241+00.00, 31.00 LT.  
 CONST. TYPE D DBI  
 INDEX NO. 'S 232  
 GRATE EL. - 16.50  
 FL EL. - 10.30

STA. 241+00.00, 31.00 LT.  
 CONST. TYPE D DBI  
 INDEX NO. 'S 232  
 GRATE EL. - 16.50  
 FL EL. - 10.30

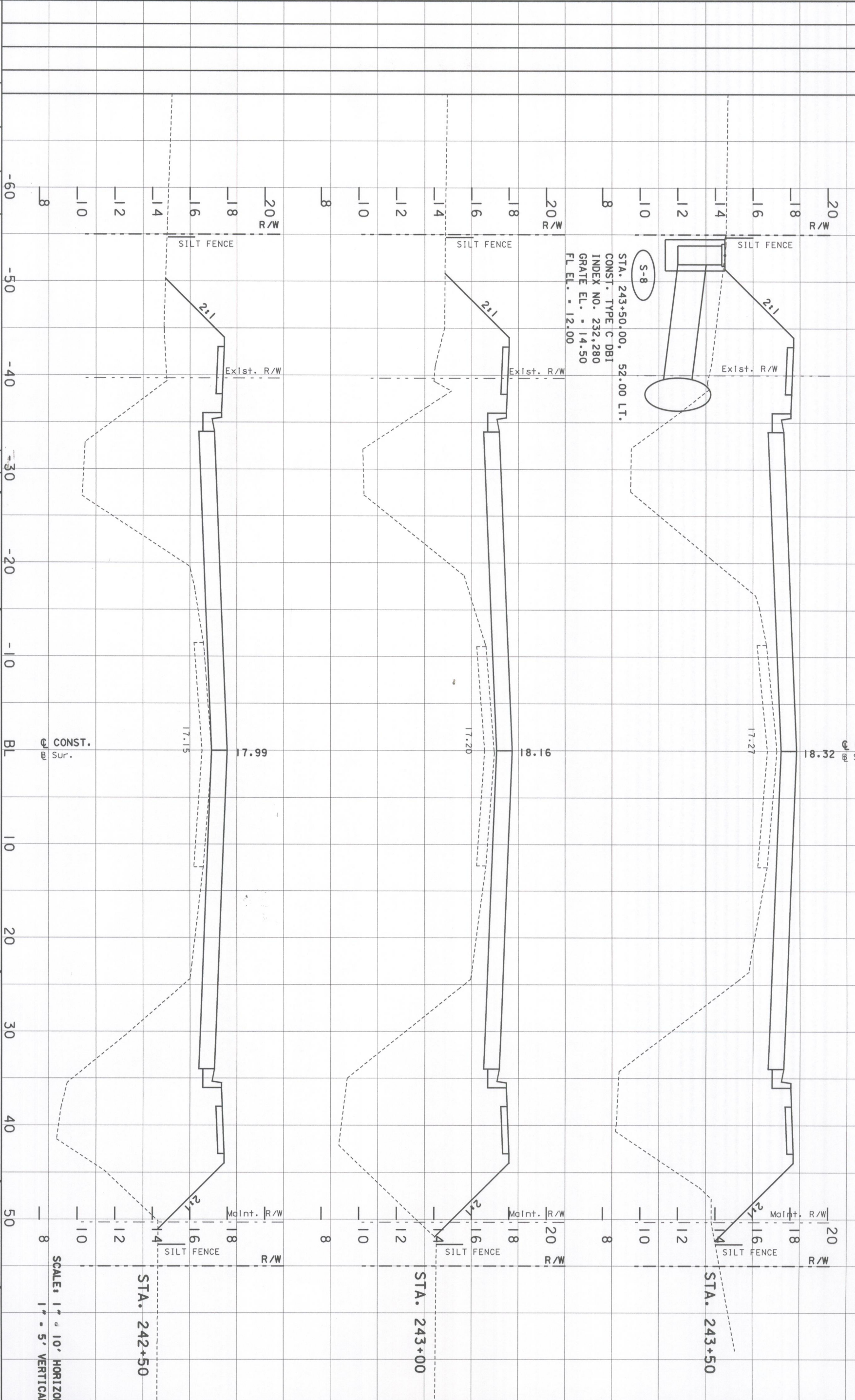
SCALE: 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

UNCLASS. MATL.	A-2-A-3
ROW EXC	FILL
A	V
A	V

SHEET NO. 9

0	239	1	331
0	99	0	201
0	118	0	201

A-7	MATL
SUBS	EXC
R/W	EXC
A	V
A	V



DESIGNED BY	DMS	DATE	5/98
CHECKED BY	KLM	DATE	5/98
DRAWN BY	RLS	DATE	5/98
CHECKED BY	KLM	DATE	5/98
SUPERVISED BY	JEFFREY D. TRIM, P.E. #42106		

REVISION DESCRIPTION & DATE	BY NO.

MANATEE COUNTY FLORIDA	PUBLIC WORKS DEPT.
---------------------------	--------------------

**63rd AVE. EAST**  
OVER PEARCE CANAL  
BRIDGE NO. 134042  
MANATEE COUNTY, FLORIDA

WADELTRIM	8745 HENDERSON ROAD, SUITE 220 TAMPA, FLORIDA 33634 813.882.8396 FAX 813.984.5990 CERTIFICATE OF AUTHORIZATION NO. 3952
-----------	--

ENGINEER OF RECORD	Jeffrey D Trim, PE No. 42106
--------------------	------------------------------

Proj. No.	134042
Dwg. Date	

SCALE: 1" = 10' HORIZONTAL  
1" = 5' VERTICAL

**CROSS SECTIONS**

UNCLASS. MATL.	A-2-A-3
ROWY EXC	FILL
A	V
A	V

536

307

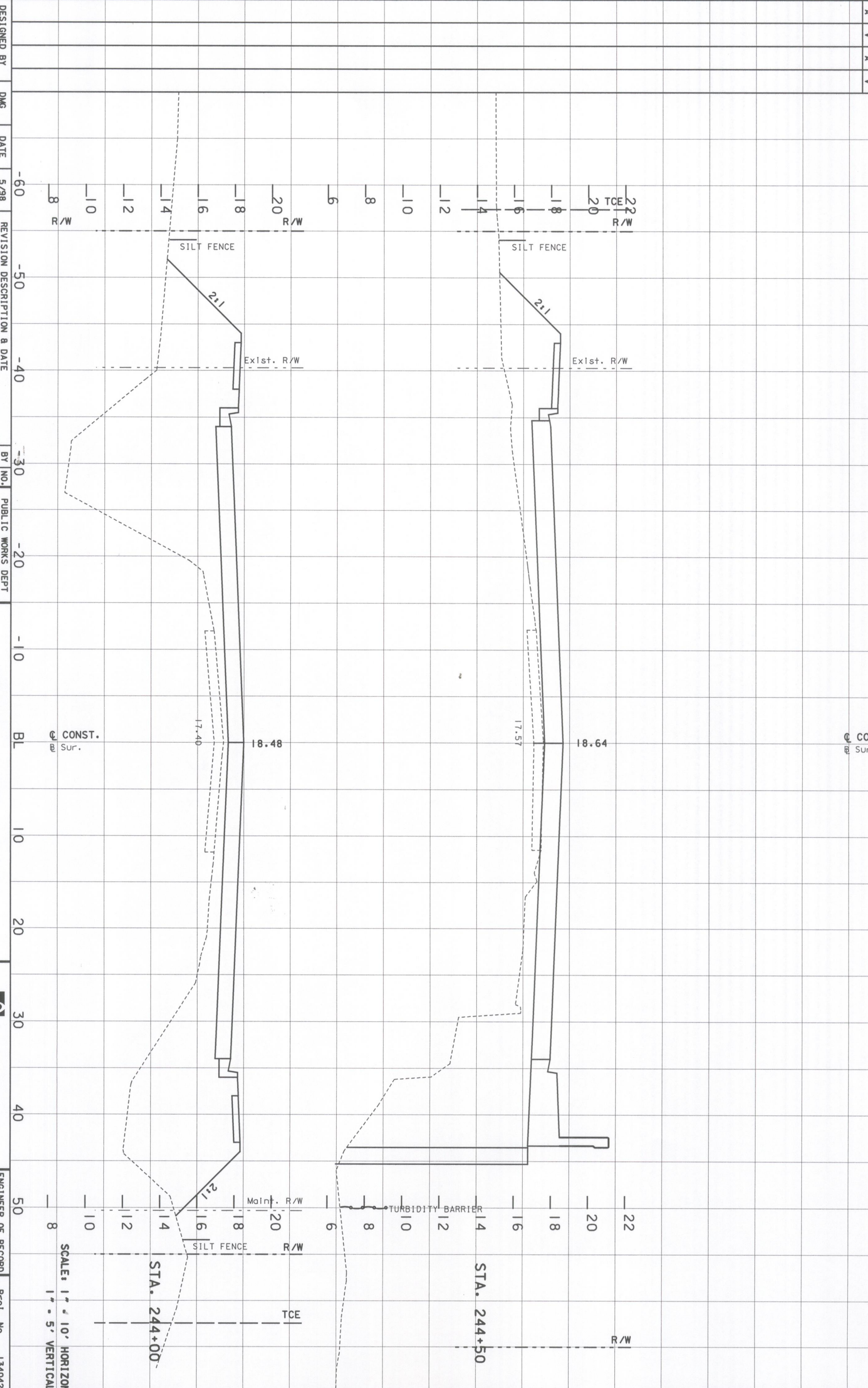
603

344

591

272

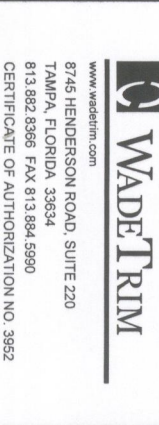
A-7 MATL  
SUBS EXC RDWY EXC  
A V A V



DESIGNED BY	DMS	DATE	5/98
CHECKED BY	KLM	DATE	5/98
DRAWN BY	RLS	DATE	5/98
CHECKED BY	KLM	DATE	5/98
SUPERVISED BY	JEFFREY D. TRIM, P.E.	DATE	4/21/06

REVISION DESCRIPTION & DATE

BY NO.		



**63rd AVE. EAST**  
OVER PEARCE CANAL  
BRIDGE NO. 134042  
MANATEE COUNTY, FLORIDA

**WADETRIM**  
www.wadefirm.com  
8745 HENDERSON ROAD, SUITE 220  
TAMPA, FLORIDA 33634  
813.882.8386 FAX 813.884.5990  
CERTIFICATE OF AUTHORIZATION NO. 3952

ENGINEER OF RECORD	Jeffrey D. Trim, PE No. 42106	Proj. No.	134042
Dwg. Date			

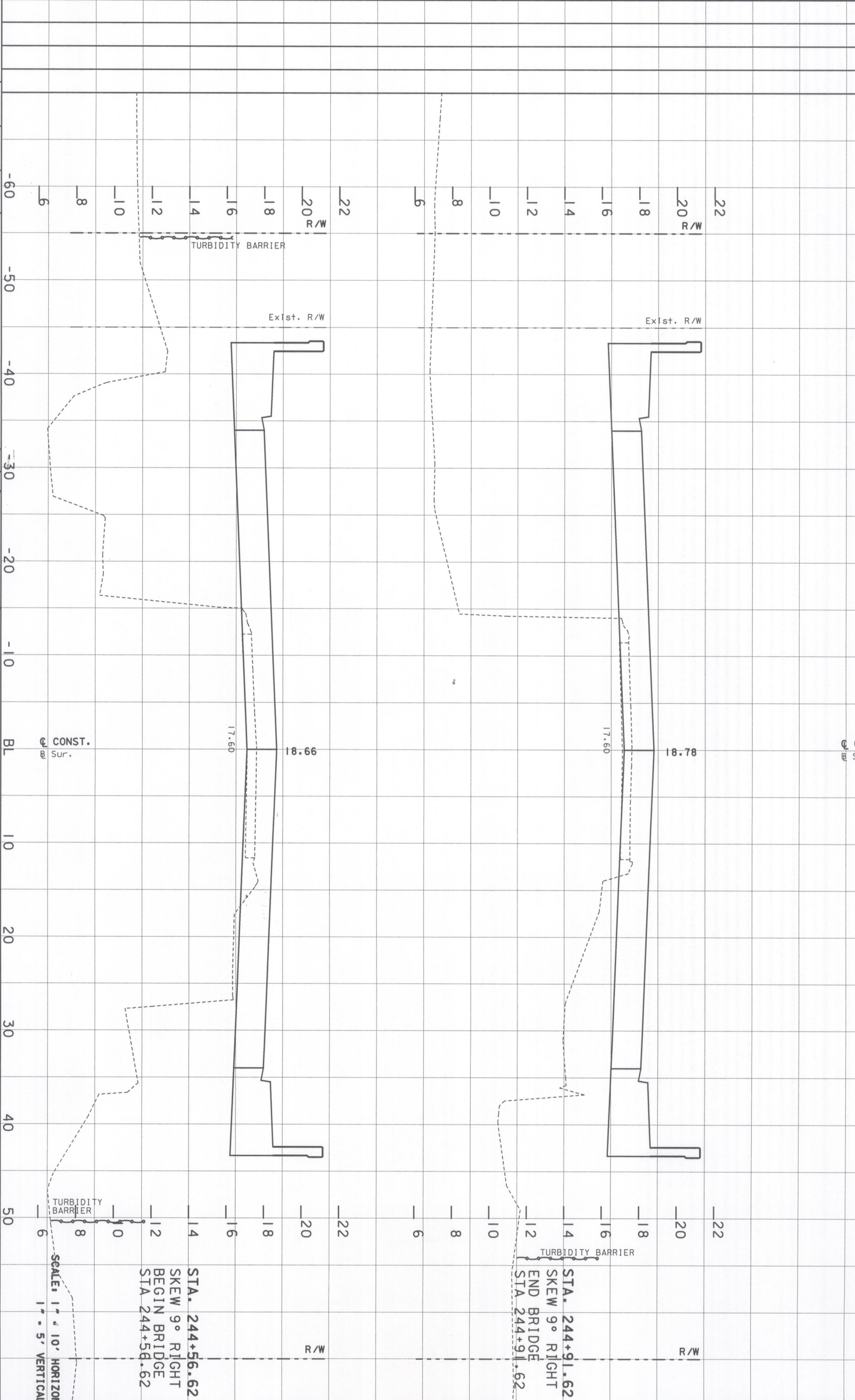
**CROSS SECTIONS**

SHEET NO. //

UNCLASS. MATL. A-2-A-3  
RDWY EXC FILL  
A V A V

1 95  
0 155  
0 294  
0 416

A-7 MATL			
SUBS	EXC	RDWY	EXC
A	V	A	V



DESIGNED BY	DMS	DATE	5/98
CHECKED BY	KLM	DATE	5/98
DRAWN BY	RLS	DATE	5/98
CHECKED BY	KLM	DATE	5/98
SUPERVISED BY	JEFFREY D. TRIM, P.E.	DATE	4/21/06

REVISION DESCRIPTION & DATE	BY NO.

**MANATEE COUNTY**  
FLORIDA

**63rd AVE. EAST**  
OVER PEARCE CANAL  
BRIDGE NO. 134042  
MANATEE COUNTY, FLORIDA

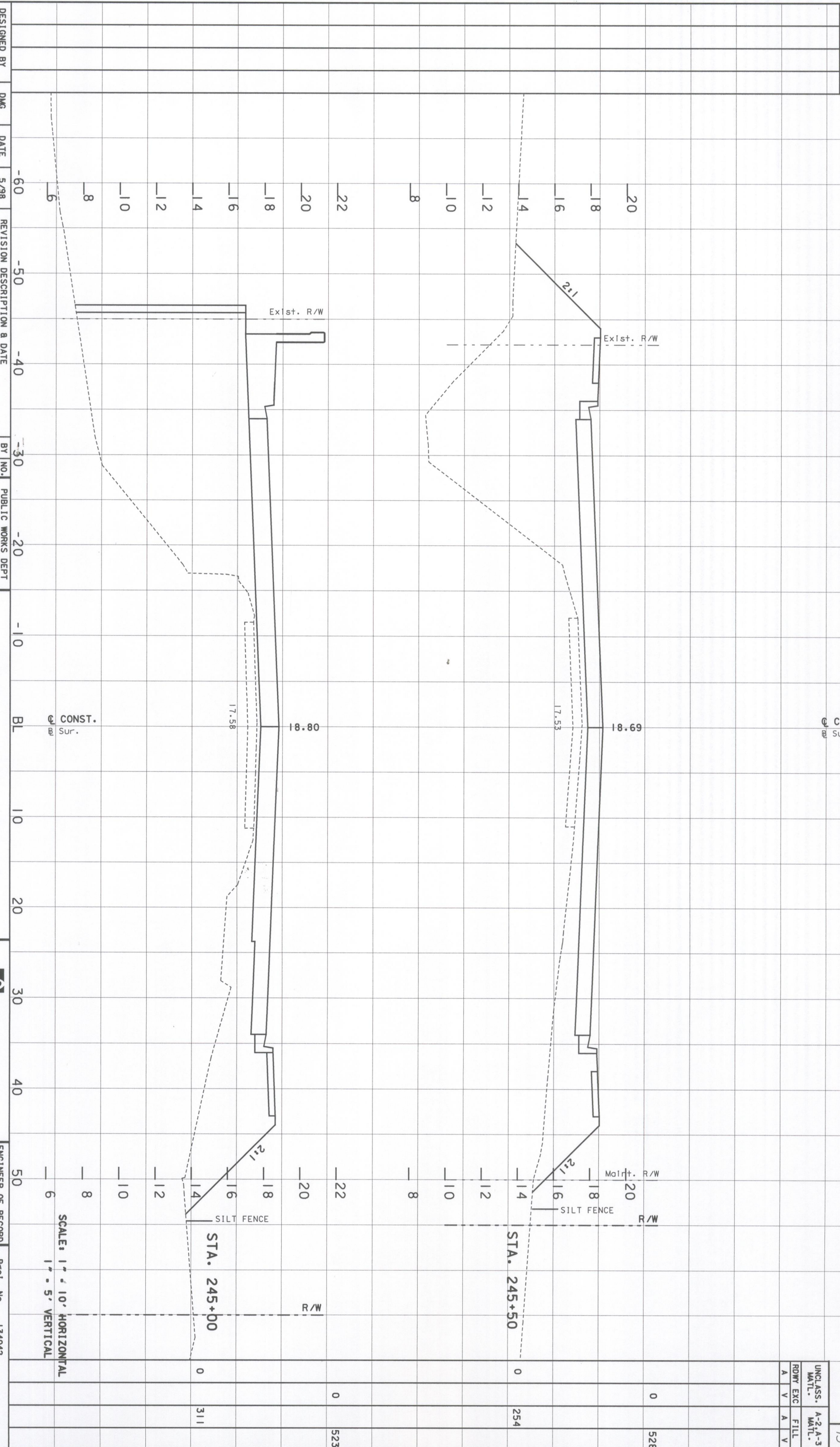
**WADETRIM**  
www.wadefirm.com  
8745 HENDERSON ROAD, SUITE 220  
TAMPA, FLORIDA 33634  
813.882.8366 FAX 813.884.5990  
CERTIFICATE OF AUTHORIZATION NO. 3952

ENGINEER OF RECORD	JEFFREY D. TRIM, P.E. No. 42106
Proj. No.	134042
Dwg. Date	

**CROSS SECTIONS**

UNCLASS. MATL.			
A-2-A-3 MATL.			
RDWY	EXC	FILL	
A	V	A	V

A-7 MATL			
SUBS	EXC	RDWY	EXC
A	V	A	V



DESIGNED BY	DMS	DATE	5/98	REVISION DESCRIPTION & DATE	BY NO.
CHECKED BY	KLM	DATE	5/98		
DRAWN BY	RLS	DATE	5/98		
CHECKED BY	KLM	DATE	5/98		
SUPERVISED BY	JEFFREY D. TRIM, P.E. #42106				



**63rd AVE. EAST**  
 OVER PEARCE CANAL  
 BRIDGE NO. 134042  
 MANATEE COUNTY, FLORIDA

**WADETRIM**  
 8745 HENDERSON ROAD, SUITE 220  
 TAMPA, FLORIDA 33634  
 813.862.8366 FAX 813.864.5990  
 CERTIFICATE OF AUTHORIZATION NO. 3952

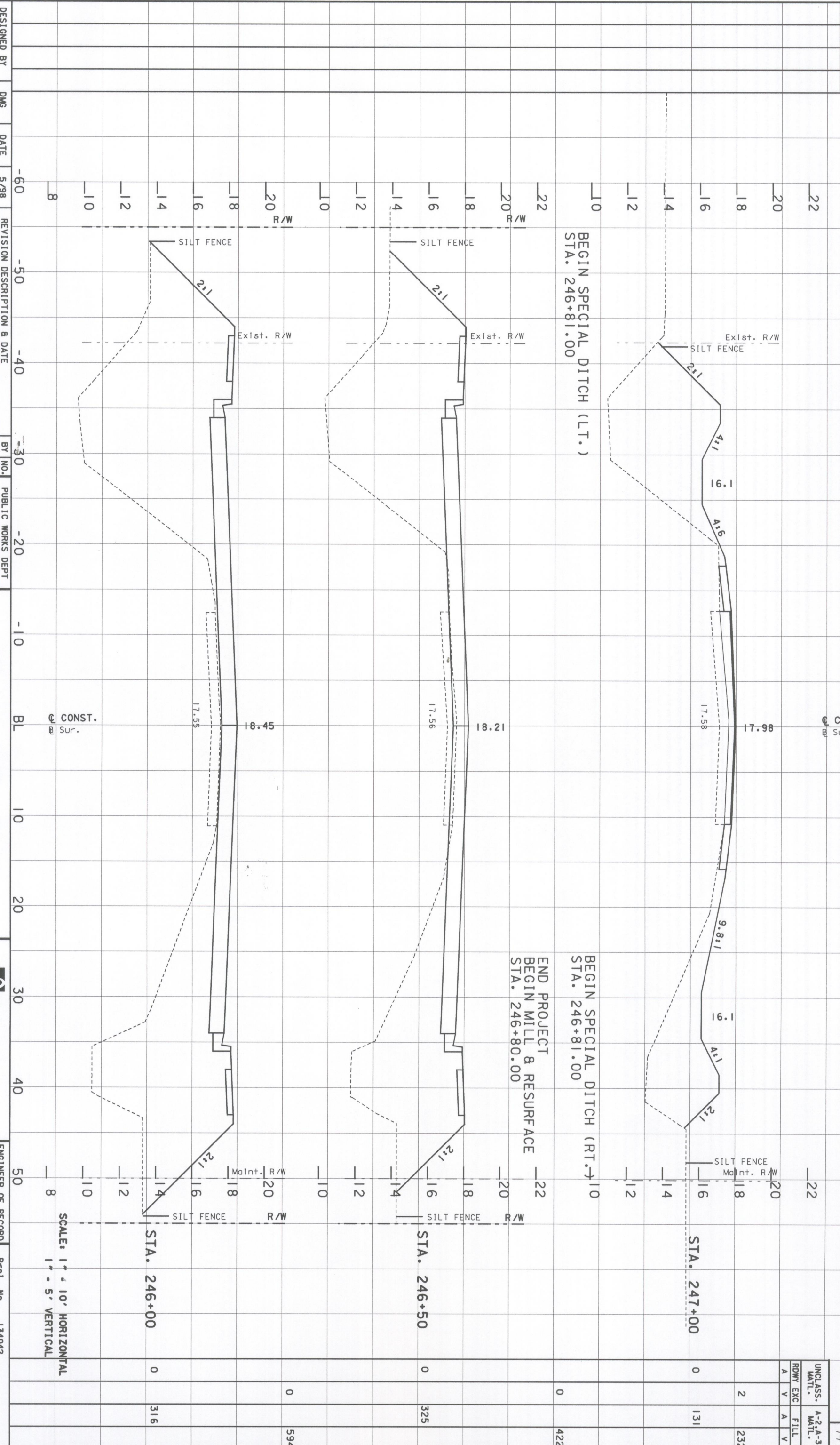
ENGINEER OF RECORD	Jeffrey D. Trim, PE No. 42106
Proj. No.	134042
Dwg. Date	

**CROSS SECTIONS**

SCALE: 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

UNCLASS. MATL.	A-2-A-3
RDWY EXC	FILL
A	V
A	V

A-7 MATL  
SUBS EXC ROW EXC  
A V A V



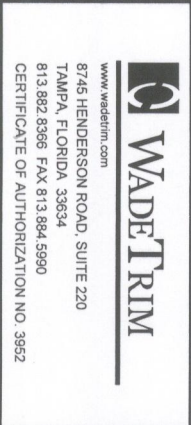
SCALE: 1" = 10' HORIZONTAL  
1" = 5' VERTICAL

DESIGNED BY	DKS	DATE	5/98
CHECKED BY	KLM	DATE	5/98
DRAWN BY	RLS	DATE	5/98
CHECKED BY	KLM	DATE	5/98
SUPERVISED BY	JEFFREY D. TRIM, P.E.	DATE	5/98

REVISION DESCRIPTION & DATE	BY NO.



**63rd AVE. EAST**  
 OVER PEARCE CANAL  
 BRIDGE NO. 134042  
 MANATEE COUNTY, FLORIDA

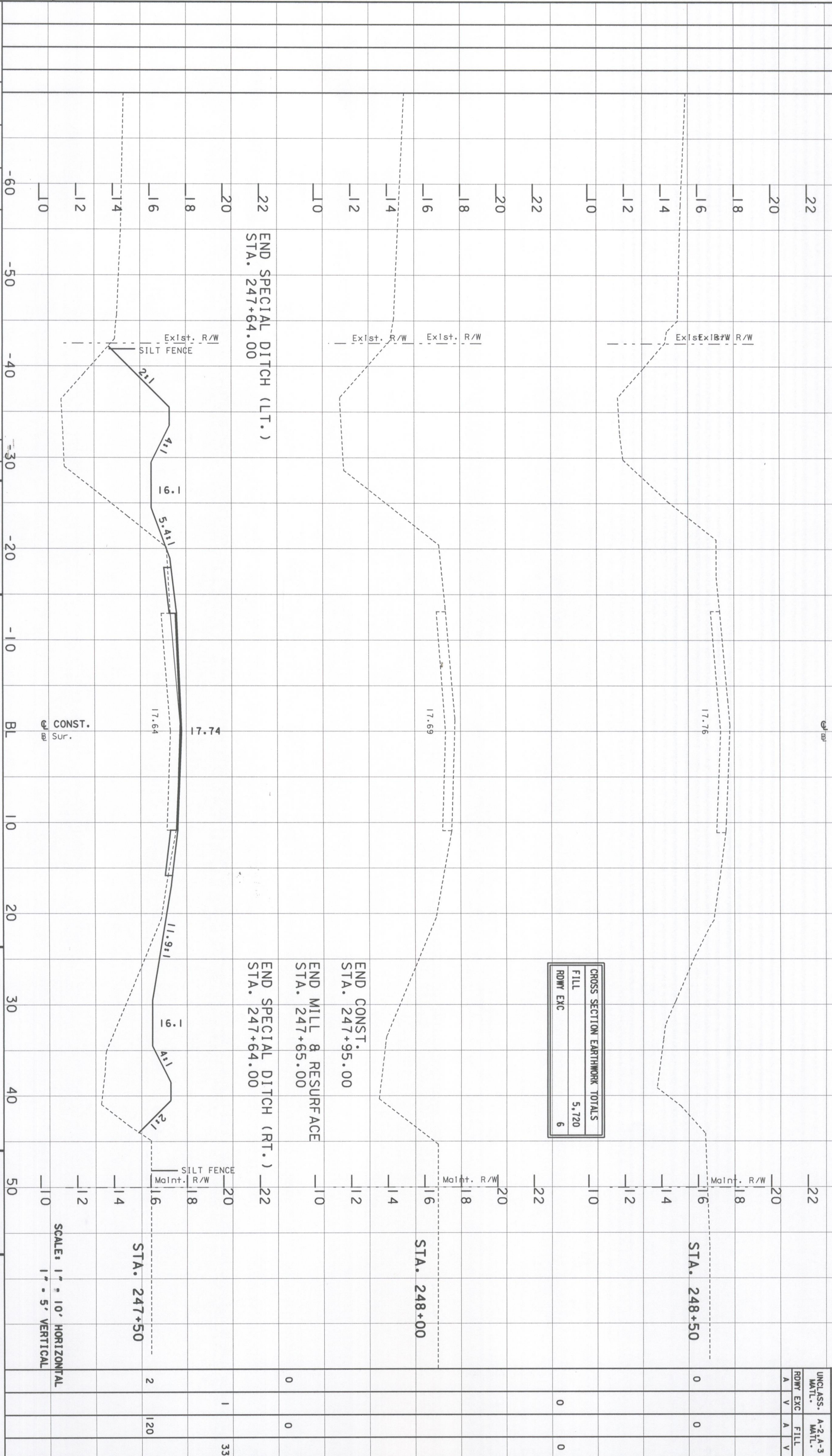


ENGINEER OF RECORD	Jeffrey D. Trim, P.E. No. 42106
Proj. No.	134042
Dwg. Dctg	

**CROSS SECTIONS**

UNCLASS. MATL.	A-2-A-3
ROW EXC	FILL
A V	A V
2	232
0	131
0	422
0	594

A-7 MATL	
SUBS EXC	ROW EXC
A	V
A	V



DESIGNED BY	DMS	DATE	5/98	REVISION DESCRIPTION & DATE	BY NO.	PUBLIC WORKS DEPT
CHECKED BY	KLM	DATE	5/98			
DRAWN BY	RLS	DATE	5/98			
CHECKED BY	KLM	DATE	5/98			
SUPERVISED BY	JEFFREY D. TRIM, P.E. #42106					

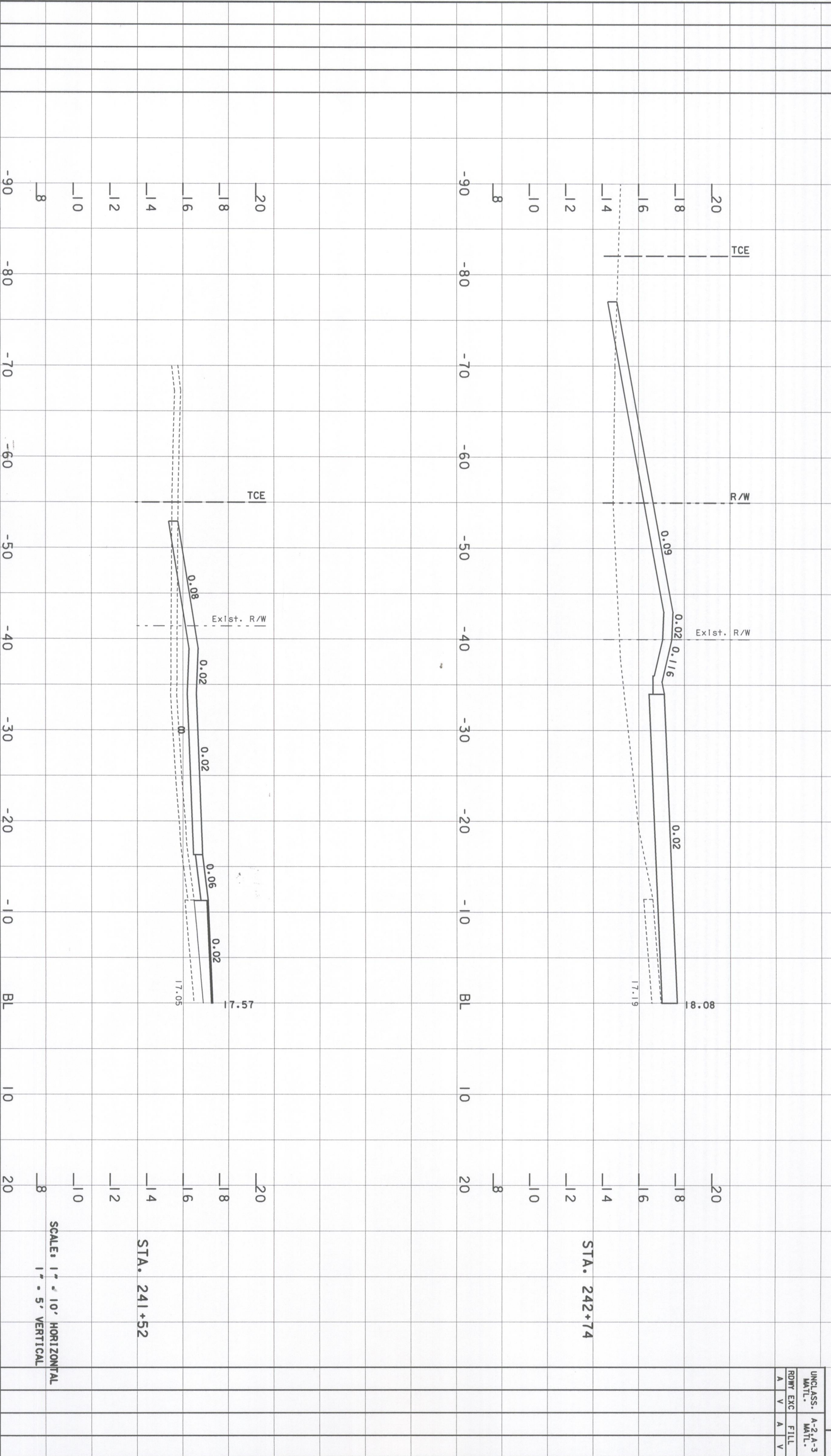
**63rd AVE. EAST**  
 OVER PEARCE CANAL  
 BRIDGE NO. 134042  
 MANATEE COUNTY, FLORIDA

**WADETRIM**  
 www.wadetr.com  
 8745 HENDERSON ROAD, SUITE 220  
 TAMPA, FLORIDA 33634  
 813.882.8366 FAX 813.884.5990  
 CERTIFICATE OF AUTHORIZATION NO. 3962

ENGINEER OF RECORD	Jeffrey D Trim, PE No. 42106	Proj. No.	134042
Dwg. Date		<b>CROSS SECTIONS</b>	

SCALE: 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

A-7 MATL  
SUBS EXC RDWY EXC  
A V A V

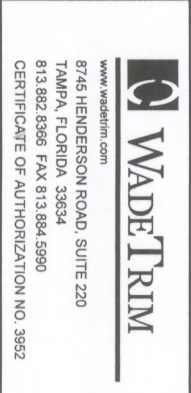


DESIGNED BY	DMG	DATE	5/98
CHECKED BY	KLM	DATE	5/98
DRAWN BY	RLS	DATE	5/98
CHECKED BY	KLM	DATE	5/98
SUPERVISED BY	JEFFREY D. TRIM, P.E. #42106		

REVISION DESCRIPTION & DATE	BY NO.



**63rd AVE. EAST**  
 OVER PEARCE CANAL  
 BRIDGE NO. 134042  
 MANATEE COUNTY, FLORIDA



ENGINEER OF RECORD  
 Jeffrey D. Trim, PE No. 42106

**DRIVE WAY CROSS SECTIONS**

SCALE: 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

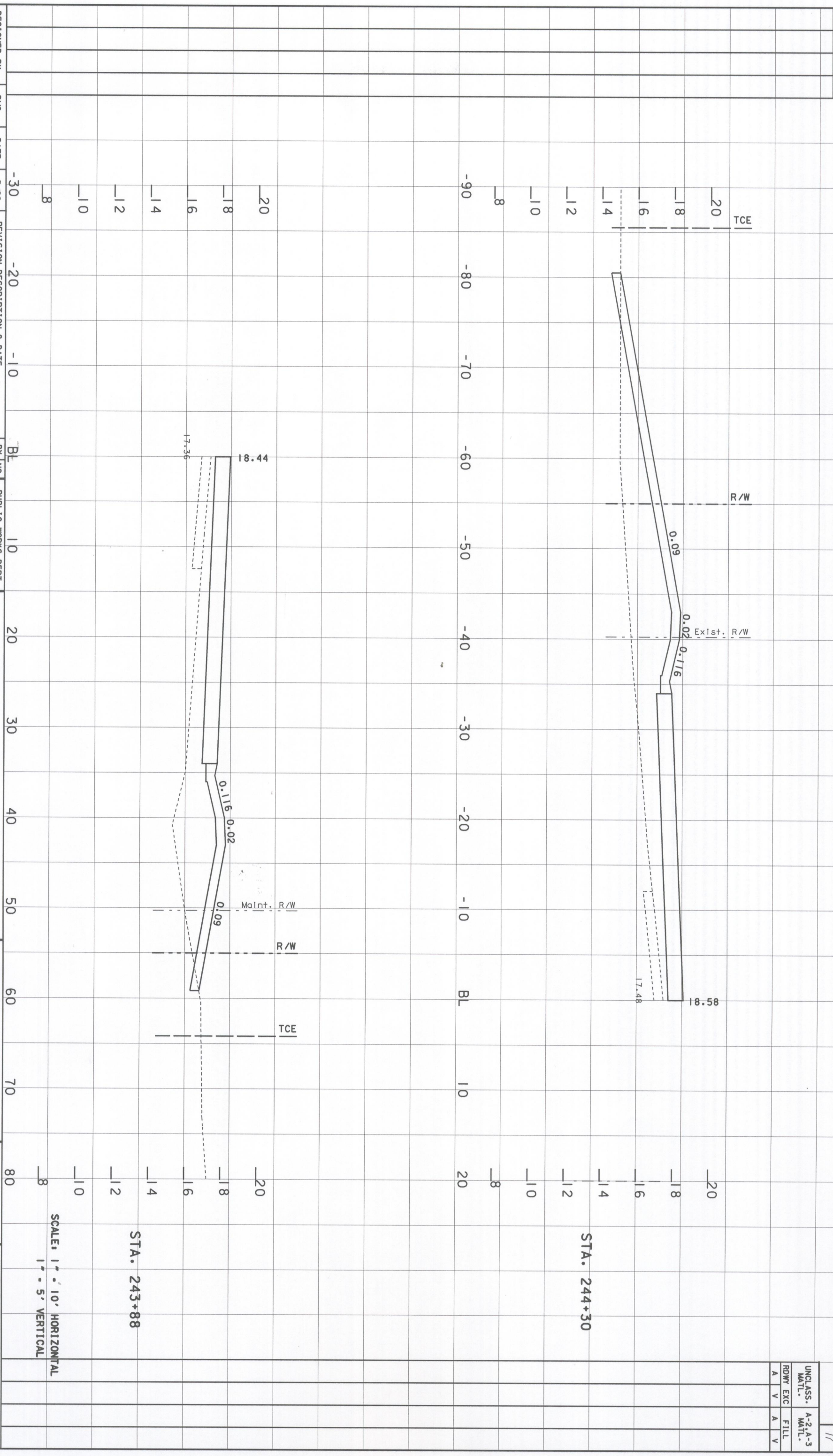
STA. 241+52

STA. 242+74

UNCLASS. MATL.	A-2-A-3 MATL.
RDWY EXC	FILL
A V	A V



A-7 MATL			
SUBS	EXC	RDWY	EXC
A	V	A	V

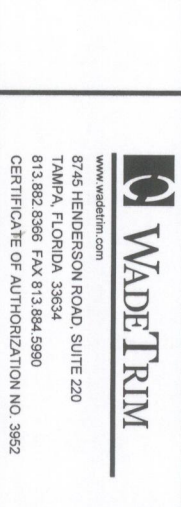


DESIGNED BY	DWG	DATE	5/98
CHECKED BY	KLM	DATE	5/98
DRAWN BY	RLS	DATE	5/98
CHECKED BY	KLM	DATE	5/98
SUPERVISED BY	JEFFREY D. TRIM, P.E.		*42106

REVISION DESCRIPTION & DATE	BY NO.



**63rd AVE. EAST**  
 OVER PEARCE CANAL  
 BRIDGE NO. 134042  
 MANATEE COUNTY, FLORIDA



ENGINEER OF RECORD  
 Jeffrey D. Trim, PE No. 42106

**DRIVE WAY CROSS SECTIONS**

SCALE: 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

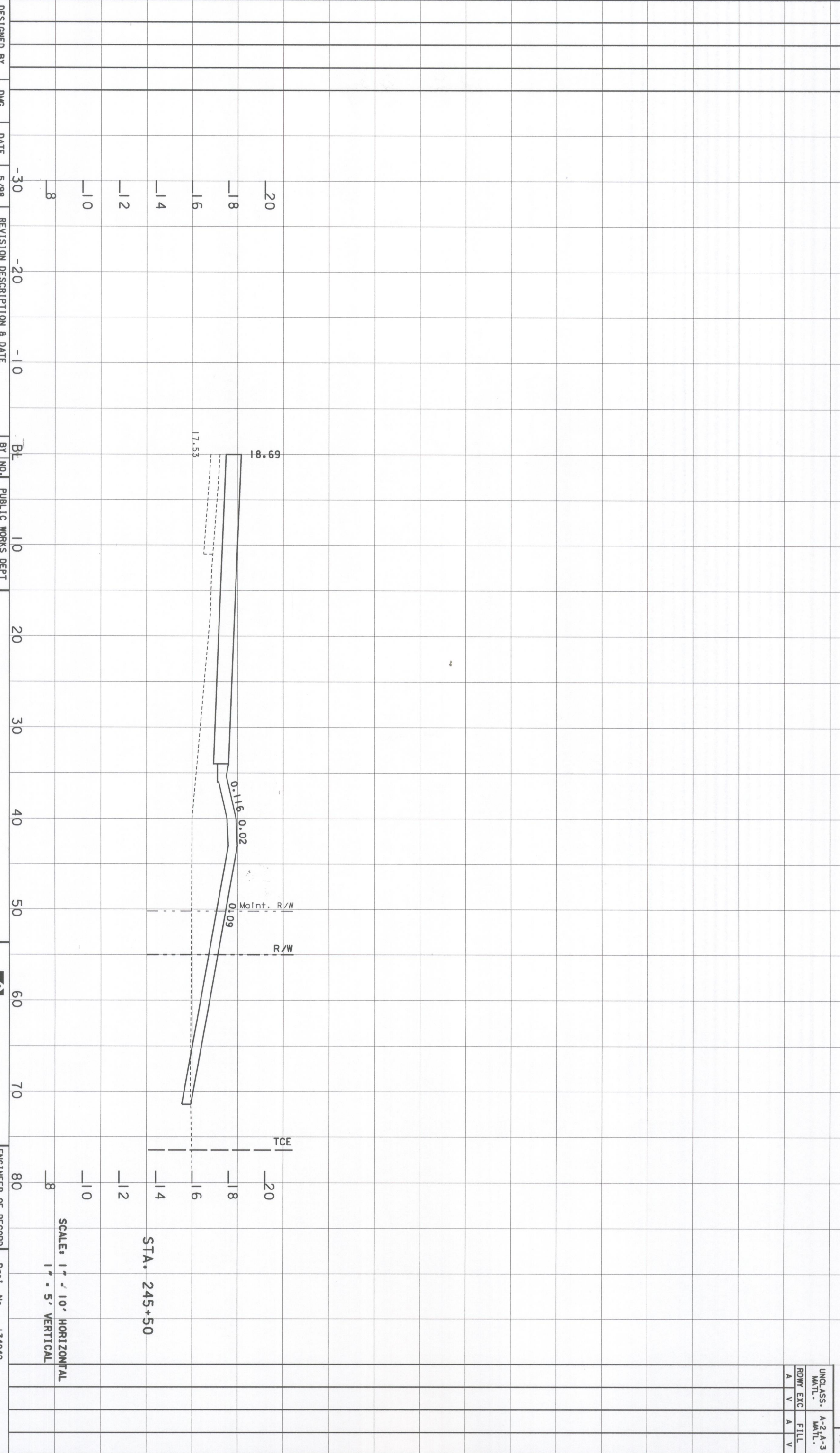
STA. 243+88

STA. 244+30

UNCLASS. MATL.	A-2, A-3
RDWY EXC	FILL
A	V
A	V

A-7 MATL  
SUBS EXC RDWY EXC  
A V A V

SHEET NO. 18  
UNCLASS. MATL. A-2, A-3  
RDWY EXC FILL  
A V A V



STA. 245+50

SCALE: 1" = 10' HORIZONTAL  
1" = 5' VERTICAL

DESIGNED BY	DMG	DATE	5/98
CHECKED BY	KLM	DATE	5/98
DRAWN BY	RLS	DATE	5/98
CHECKED BY	KLM	DATE	5/98
SUPERVISED BY	JEFFREY D. TRIM, P.E.		42106

REVISION DESCRIPTION & DATE	BY NO.

MANATEE COUNTY  
FLORIDA  
PUBLIC WORKS DEPT

**63rd AVE. EAST**  
OVER PEARCE CANAL  
BRIDGE NO. 134042  
MANATEE COUNTY, FLORIDA

www.wadeftrim.com  
**WADEFTRIM**  
8745 HENDERSON ROAD, SUITE 220  
TAMPA, FLORIDA 33634  
813.882.8986 FAX 813.884.5990  
CERTIFICATE OF AUTHORIZATION NO. 3952

ENGINEER OF RECORD  
Jeffrey D. Trim, PE No. 42106

Proj. No. 134042  
Dwg. Date  
**DRIVE WAY  
CROSS SECTIONS**

238

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243

244

63rd AVENUE EAST  
Fellowship Baptist Church

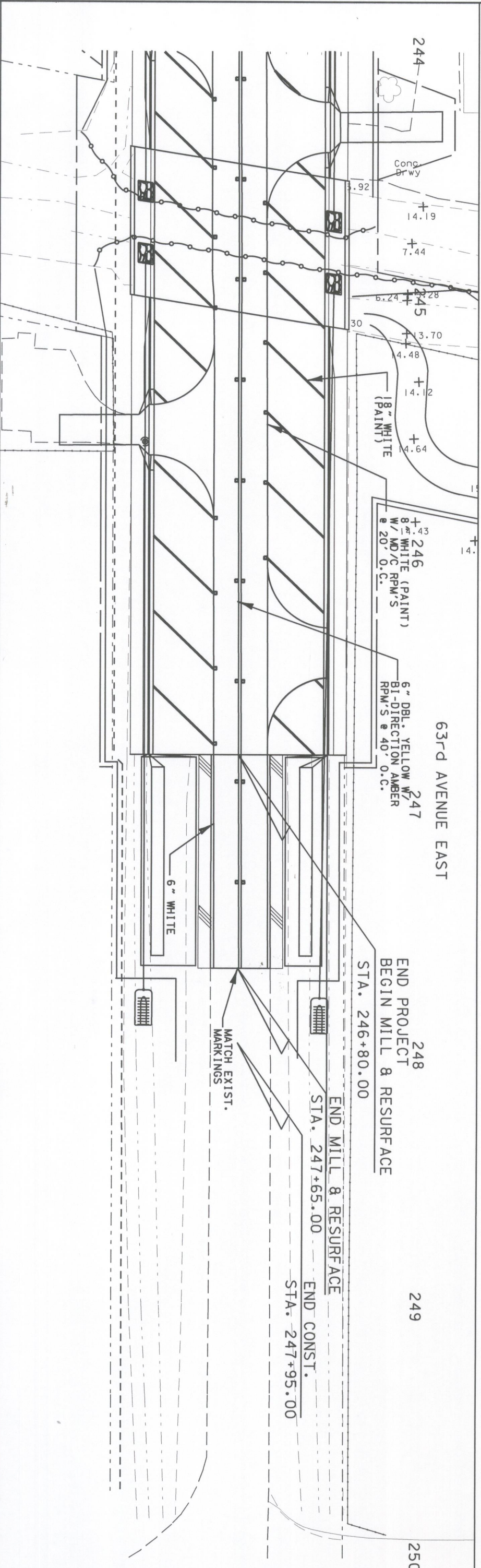
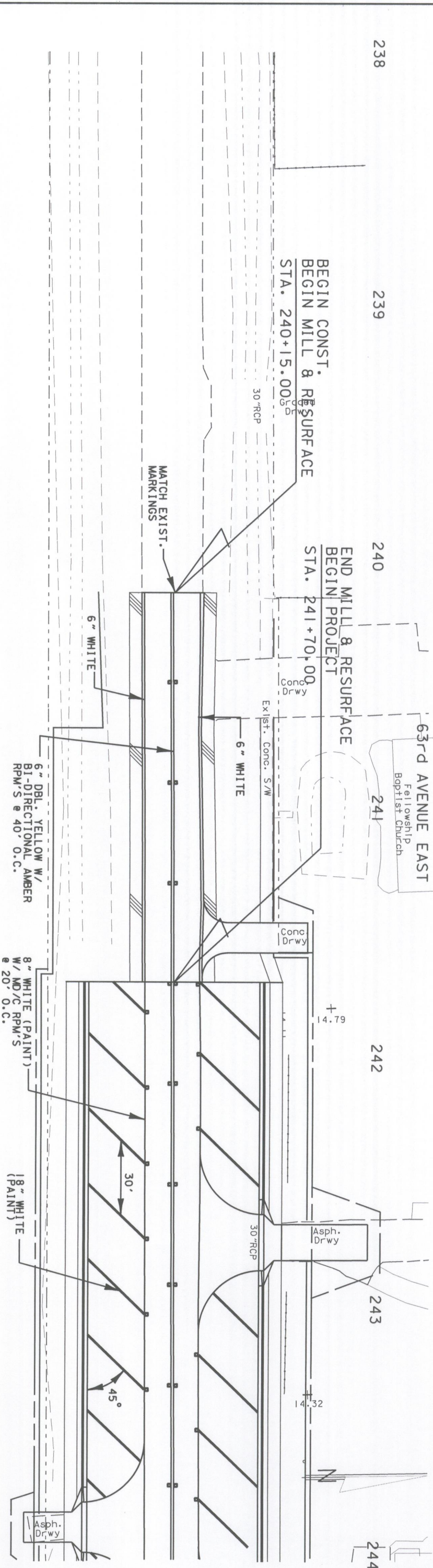
BEGIN CONST. & RESURFACE  
STA. 240+15.00

END MILL & RESURFACE  
BEGIN PROJECT  
STA. 241+70.00

END PROJECT  
BEGIN MILL & RESURFACE  
STA. 246+80.00

END MILL & RESURFACE  
STA. 247+65.00

END CONST.  
STA. 247+95.00



DESIGNED BY DKM	DATE 5/98	REVISION DESCRIPTION & DATE	BY NO.	PUBLIC WORKS DEPT	<p><b>63rd AVE EAST</b> OVER PEARCE CANAL BRIDGE NO. 134042 MANATEE COUNTY, FLORIDA</p>	<p><b>WAADTRIM</b> 8745 HENDERSON ROAD, SUITE 220 TAMPA, FLORIDA 33634 813.882.8386 FAX 813.884.5990 CERTIFICATE OF AUTHORIZATION NO. 3952</p>	ENGINEER OF RECORD Jeffrey D. Trim, P.E. No. 42106	Proj. No. 3196
CHECKED BY KLM	DATE 5/98						Dwg. Date	
DRAWN BY RLS	DATE 5/98						SIGNING AND PAVT. MARKING	
CHECKED BY KLM	DATE 5/98							
SUPERVISED BY JEFFREY D. TRIM, P.E. #42106								

① VZ PROPOSED DIRECTIONAL  
34 LF 2-4" HDPE

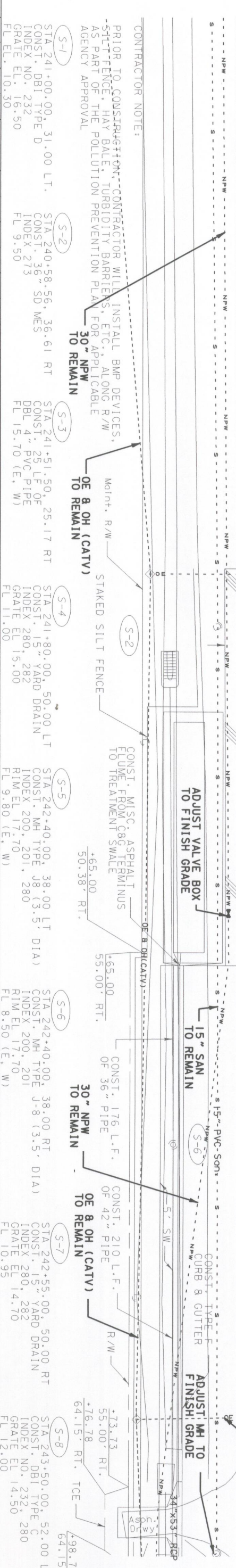
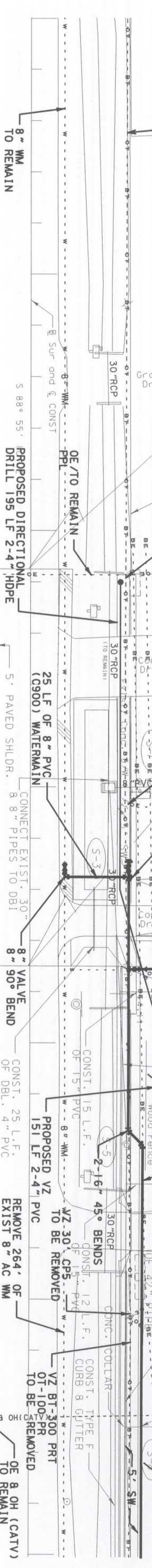
238  
239  
240

PROPOSED VZ  
30" CP5 • 3321  
BEGIN CONST.  
BEGIN MILL & RESURFACE  
STA. 240+15.00

END MILL & RESURFACE  
BEGIN PROJECT  
STA. 241+70.00

241  
242  
243  
244

PROPOSED VZ  
30" CP5 • 3415  
O/E/T/O RELOCATE  
NO. 1  
PK 8 DISK 2230  
STA. 244+00



CONTRACTOR NOTE:  
PRIOR TO CONSTRUCTION CONTRACTOR WILL INSTALL BMP DEVICES, STIFFNESS, HAY BALE, TURBIDITY BARRIERS, ETC., ALONG R/W AS PART OF THE POLLUTION PREVENTION PLAN FOR APPLICABLE AGENCY APPROVAL

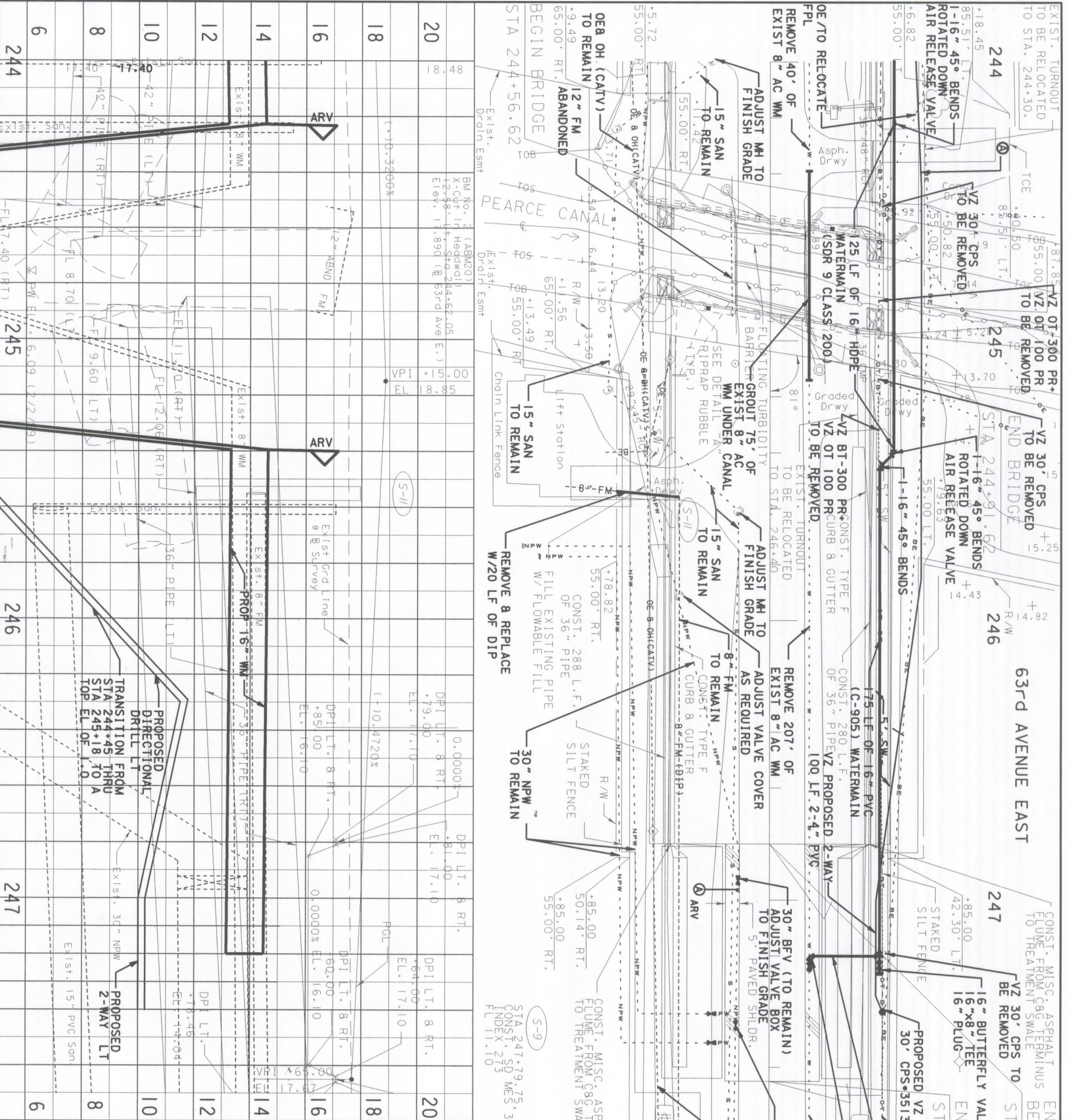
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INDEX NO. 232 INDEX NO. 273 INDEX NO. 282 INDEX NO. 280 INDEX NO. 282 INDEX NO. 282 INDEX NO. 280 INDEX NO. 282 INDEX NO. 280  
GRAVE EL. 16.50 FL 9.50 FL 15.70 (E, W) FL 11.00 FL 9.80 (E, W) FL 8.50 (E, W) FL 10.95 FL 12.00

NO.	UTILITY OWNERS	CONTACT	PHONE NUMBER
20	FLORIDA POWER AND LIGHT 1253 12th AVENUE EAST PALMETTO, FLORIDA 34221	MR. GREG COKER	(941) 723-4430
18	VERIZON (TELEPHONE) 1701 RINGLING BLVD. MC FLESS 4113 SARASOTA, FLORIDA 34236	MS. DENISE HUTTON	(941) 906-6722
16	MANATEE COUNTY PUBLIC WORKS 1026 26th AVENUE EAST BRADENTON, FLORIDA 34208	MR. TOD PHINNEY	(941) 708-7450
14	BRIGHTHOUSE NETWORKS 4597 15th STREET EAST BRADENTON, FLORIDA 34203	MR. DAN BARBER	(941) 748-3816
12	TECO - PEOPLES GAS 5101 NW 21ST AVE, FT. LAUDERDALE, FLORIDA 33309	MR. TED PELEGY	(941) 342-4026
10	UTILITY ADJUSTMENTS NOTES		
8	THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.		
6	UTILITIES TO BE ADJUSTED BY OTHERS, AS DIRECTED BY THE PROJECT ENGINEER. FOR UTILITY ADJUSTMENT SYMBOLS, SEE STANDARD INDEX NO. 002.		
238	DESIGNED BY DMG DATE 5/98	REVISION DESCRIPTION & DATE	BY NO. PUBLIC WORKS DEPT
239	CHECKED BY KLM DATE 5/98	16" WM CHG C-900 TO C-905	ALS 1
240	DRAWN BY RLS DATE 5/98		
241	CHECKED BY KLM DATE 5/98		
242	SUPERVISED BY JEFFREY D. TRIM, P.E. #42106		

**63rd AVE EAST**  
OVER PEARCE CANAL  
BRIDGE NO. 134042  
MANATEE COUNTY, FLORIDA

**WADETRIM**  
8745 HENDERSON ROAD, SUITE 220  
TAMPA, FLORIDA 33634  
813.882.8396 FAX 813.884.9990  
CERTIFICATE OF AUTHORIZATION NO. 3952

**UTILITY ADJUSTMENTS**



NO.	DATE	BY	DESCRIPTION
244	5/98	KLM	DESIGNED BY
245	5/98	RLS	CHECKED BY
246	5/98	KLM	DRAWN BY
247	5/98	JEFFREY D. TRIM	CHECKED BY
248	5/98	JEFFREY D. TRIM	SUPERVISED BY

NO.	DATE	DESCRIPTION
245	5/98	ADDED ARV'S, 16" WM CHG C-900 TO C-905
246	5/98	BY NO. 1
247	5/98	PUBLIC WORKS DEPT

<p><b>MANATEE COUNTY</b> FLORIDA</p>	<p><b>63rd AVE EAST</b> OVER PEARCE CANAL BRIDGE NO. 134042 MANATEE COUNTY, FLORIDA</p>
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<p><b>WAADTRIM</b> 8745 HENDERSON ROAD, SUITE 220 TAMPA, FLORIDA 33634 813.882.8396 FAX 813.884.9590 CERTIFICATE OF AUTHORIZATION NO. 3952</p>	<p>ENGINEER OF RECORD Jeffrey D. Trim, P.E. No. 42106</p>
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<p>PROJECT NO. 3196</p>	<p>DATE 5/98</p>
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<p>UTILITY ADJUSTMENTS</p>	<p>DATE 5/98</p>
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**UTILITY WORK**

- CONTRACTOR SHALL PROVIDE BYPASS WATER SERVICE DURING CONSTRUCTION AND RECONNECT ALL WATER SERVICES TO THE PROPOSED 16" WATERMAIN.
- THE CONTRACTOR SHALL REMOVE 8" TRANSITE (AC) WM AND REPLACE WITH 8" PVC (DR 18 CLASS 150) PIPE, 16" PVC (DR 18) PIPE AND 16" HDPE (SDR 9, CLASS 200). THE 8" TRANSITE (AC) PIPE UNDER THE CREEK SHALL BE GROUTED FULL AND ABANDONED. THE PRICE FOR INSTALLATION INCLUDES RESTORATION, TESTING, DEWATERING, EXCAVATION INCLUDING ROCK AND ANY WORK INFERRED OR SPECIFICALLY CALLED FOR IN THE DRAWINGS OR SPECIFICATIONS.
- THE REMOVAL OF THE EXISTING 8" TRANSITE (AC) WM SHALL BE PERFORMED BY A LICENSED HAZARDOUS MATERIAL CONTRACTOR.
- PROVIDE AN ID STIFFENER AND EXTERNAL MECHANICAL RESTRAINT BUTT FUSED TO THE HDPE WHERE THE HDPE PLAIN END PIPE IS CONNECTED TO THE DIP MECHANICAL JOINT PIPE.
- THE CONTRACTOR SHALL SEQUENCE THE UTILITY WORK TO MINIMIZE INTERRUPTIONS AND THE INCONVENIENCE TO UTILITY CUSTOMERS.
- ALL WORK SHALL CONFORM TO CURRENT MANATEE COUNTY STANDARDS.
- RECORD DRAWINGS SHALL BE PREPARED AND CERTIFIED BY AN ENGINEER OR LAND SURVEYOR, REGISTERED IN THE STATE OF FLORIDA.
- ALL REQ'D. TESTING OF THE 8" AND 16" WM SHALL BE COMPLETED PRIOR TO CUT-IN. ALL TEMPORARY PLUGS AND FITTINGS REQUIRED FOR TESTING SHALL BE INCLUDED IN THE UNIT PRICE OF THE PIPE.
- THE CONTRACTOR SHALL CONNECT EXISTING WATER METERS TO THE 16" WM WITHIN 4 HOURS OF CUT-IN TO THE EXISTING 8" WM.

CONTRACTOR NOTE:  
PRIOR TO CONSTRUCTION, CONTRACTOR WILL INSTALL BMP DEVICES, SILT FENCE, HAY BALE, TURBIDITY BARRIERS, ETC., ALONG R/W AS PART OF THE POLLUTION PREVENTION PLAN FOR APPLICABLE AGENCY APPROVAL

DESIGNED BY	DMG	DATE	5/98	REVISION DESCRIPTION & DATE	BY NO.
CHECKED BY	KLM	DATE	5/98		
DRAWN BY	RLS	DATE	5/98		
CHECKED BY	KLM	DATE	5/98		
SUPERVISED BY	JEFFREY D. TRIM, P.E. #42106				

MANATEE COUNTY  
FLORIDA

63rd AVE EAST  
OVER PEARCE CANAL  
BRIDGE NO. 134042  
MANATEE COUNTY, FLORIDA

WADETRIM  
www.wadeftrim.com  
8745 HENDERSON ROAD, SUITE 220  
TAMPA, FLORIDA 33634  
813.862.8366 FAX 813.864.5990  
CERTIFICATE OF AUTHORIZATION NO. 3952

ENGINEER OF RECORD  
Jeffrey D. Trim, PE No. 42106

Proj. No. 3196  
Dwg. Date

WATER MAIN  
DETAILS

PIPE DIAMETER "D" IN INCHES	MIN. RADIUS "R" FOR SDR-11	MIN. RADIUS "R" FOR SDR-9
2	4	5.5
3	6	8.3
4	8	11.0
6	12	16.5
8	16	22.0
10	20	27.5
12	24	33.0
16	32	44.0
18	36	49.5
20	40	55.0

DIRECTIONAL BORE  
CANAL CROSSING

ALL POLYETHYLENE PIPING SHALL MEET MANATEE COUNTY STANDARDS AND SPECIFICATIONS

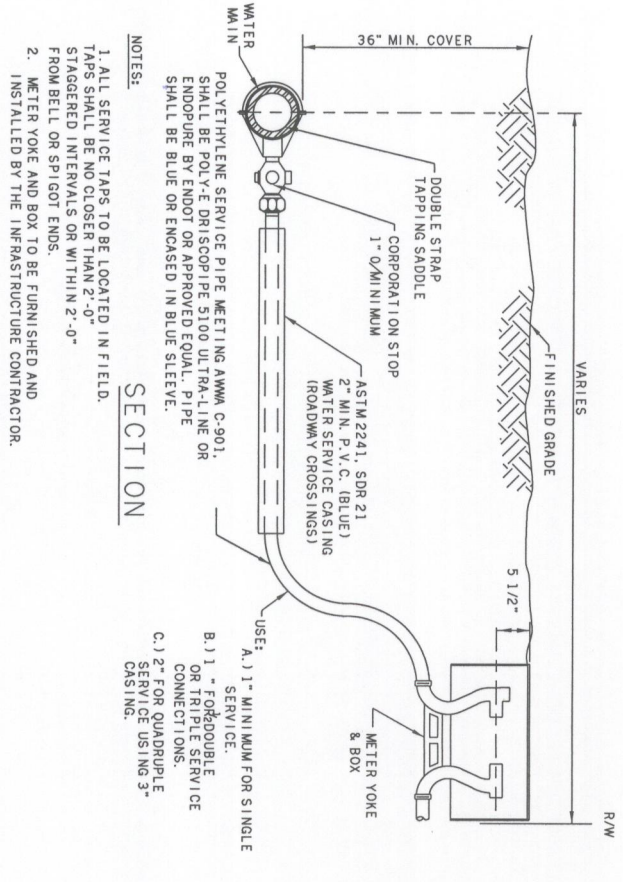
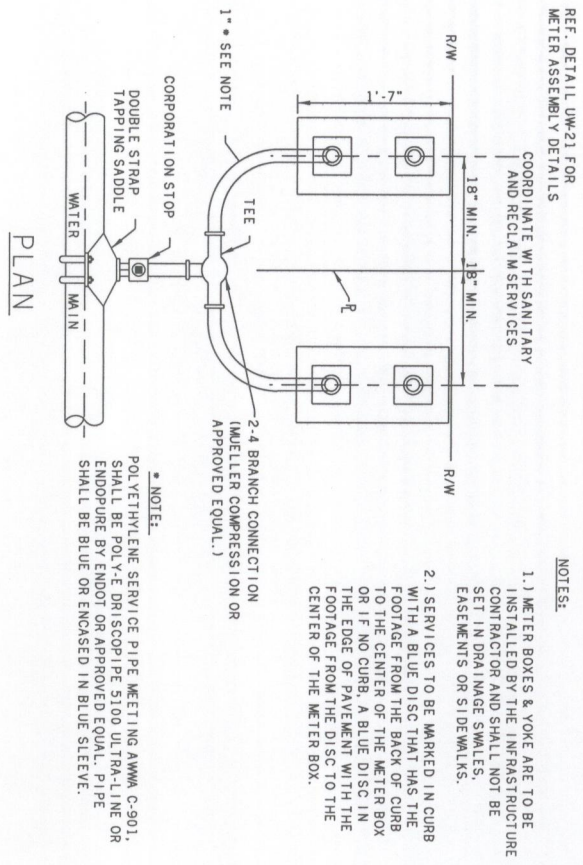
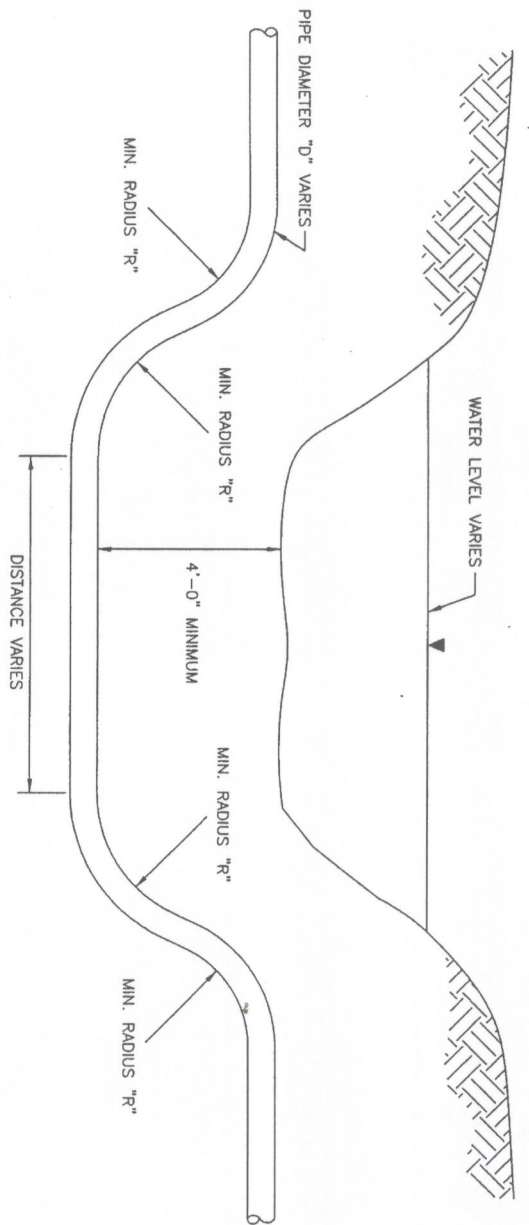
SDR-9, CLASS 200 FOR POTABLE WATER & RECLAIMED WATER

SDR-11, CLASS 180 FOR SANITARY FORCE MAINS

COLOR CODED BLUE FOR POTABLE WATER

COLOR CODED PURPLE FOR RECLAIMED WATER


COLOR CODED GREEN FOR SANITARY FORCE MAIN



TYPICAL WATER  
SERVICE CONNECTION

DESIGNED BY	DATE	REVISION DESCRIPTION & DATE	BY NO.	PUBLIC WORKS DEPT
DMS	5/98			
CHECKED BY	DATE			
KLM	5/98			
DRAWN BY	DATE			
RLS	5/98			
CHECKED BY	DATE			
KLM	5/98			
SUPERVISED BY	DATE			
JEFFREY D. TRIM, P.E. #2106				

**63rd AVE EAST**  
 OVER PEARCE CANAL  
 BRIDGE NO. 134042  
 MANATEE COUNTY, FLORIDA



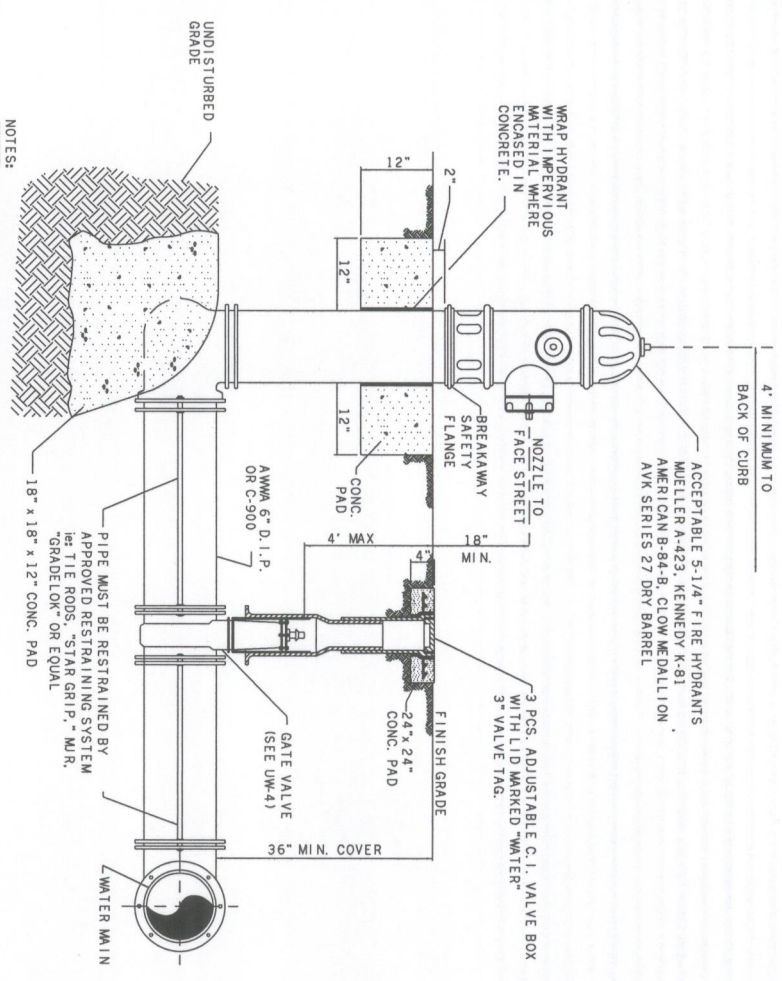
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 8745 HENDERSON ROAD, SUITE 220  
 TAMPA, FLORIDA 33634  
 813.882.8386 FAX 813.894.5990  
 CERTIFICATE OF AUTHORIZATION NO. 3952

ENGINEER OF RECORD  
 Jeffrey D Trim, PE No. 42106

Proj. No. 3196  
 Date  
**WATER MAIN  
 DETAILS**

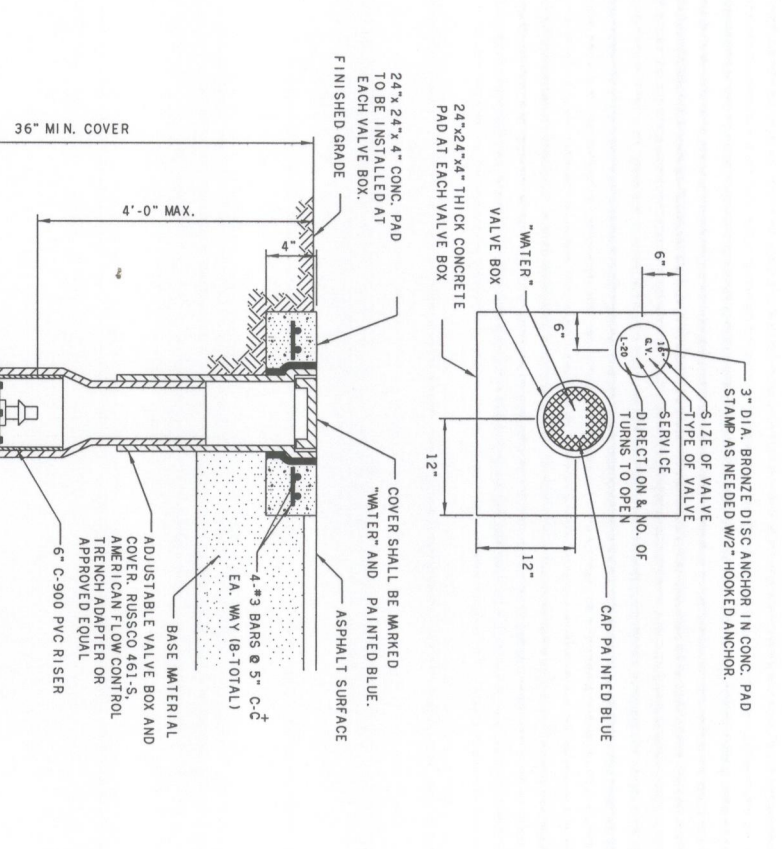
TYPICAL FIRE  
 HYDRANT ASSEMBLY

1. WEEPHOLES TO BE PLUGGED WITH BRASS PLUGS.
2. FIRE HYDRANTS SHALL BE A MINIMUM OF 6'-0" OFF EDGE OF PAVEMENT AND 10'-0" MAX. FROM BACK OF CURB WHERE POSSIBLE AND WHERE THE SIDEWALK IS TO BE INSTALLED, SHALL BE LOCATED BETWEEN THE SIDEWALK AND EDGE OF ROAD.
3. HYDRANTS SHALL BE PAINTED SAFETY YELLOW. HYDRANT SHALL BE ALL CAST IRON CONSTRUCTION.
4. PAY ITEMS FOR FIRE HYDRANT ASSEMBLIES SHALL INCLUDE HYDRANT, VALVE, PIPING, MAIN LINE TEE & HARNESSING, VALVE BOX & CONCRETE ENGAGEMENTS.
5. FIRE HYDRANTS SHALL BE PREFERABLY PLACED SO THAT STORM WATER FLOWS AWAY FROM & NOT TOWARDS THE HYDRANT.
6. FIRE HYDRANTS SHALL BE CONSTRUCTED WITH "GROUND LINE" SET TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NORMAL BURY IS 3 FEET OF COVER FOR WATER LINES. IF EXTENSIONS ARE REQUIRED, THE COST SHALL BE INCLUDED IN THE PRICE BID.
7. FIRE HYDRANTS MAY BE CONSTRUCTED WITH "GRADELOW" OFFSET FITTING.
8. RAISED REFLECTIVE PAVEMENT MARKER (BLUE) SHALL BE INSTALLED AT CENTERLINE OF PAVEMENT ADJACENT TO EACH HYDRANT.
9. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1/2" CHAMFER.

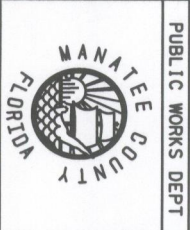


GATE VALVE, BOX,  
 COVER AND TAG

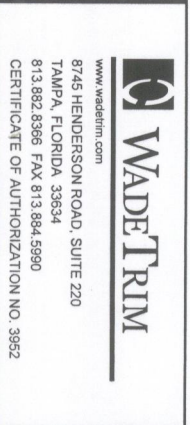
1. GATE VALVE TO BE MARKED IN CURB WITH A "W" WITH A FOOTAGE FROM THE BACK OF CURB TO THE VALVE OR IF NO CURB, A BLUE DISC WITH "W" IN THE EDGE OF PAVEMENT WITH THE FOOTAGE FROM THE DISC TO THE VALVE.
2. ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS ESTABLISHED IN THE FIELD.
3. WATER VALVES SHALL NOT BE PLACED IN HANDICAPPED RAMPS.
4. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2\"/>



DESIGNED BY	DMS	DATE	5/98	REVISION DESCRIPTION & DATE	BY NO.
CHECKED BY	KLM	DATE	5/98		
DRAWN BY	RLS	DATE	5/98		
CHECKED BY	KLM	DATE	5/98		
SUPERVISED BY	JEFFREY D. TRIM, P.E. #42106				



**63rd AVE EAST**  
 OVER PEARCE CANAL  
 BRIDGE NO. 134042  
 MANATEE COUNTY, FLORIDA



**ENGINEER OF RECORD**  
 Jeffrey D. Trim, P.E. No. 42106  
 Proj. No. 3196  
**WATER MAIN DETAILS**

**REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DR-18 PVC PIPE**

MAIN PIPE SIZE	HORIZ. BENDS		TEES		REDUCERS		PLUGS
	90°	45°	90°	45°	90°	45°	
24	90	38	18	18	18	18	214
20	78	32	15	15	15	15	184
16	66	27	13	13	13	13	151
12	51	22	10	10	10	10	118
10	44	18	9	9	9	9	100
8	37	15	7	7	7	7	83
6	29	12	5	5	5	5	63
4	21	8	4	4	4	4	45

- NOTES:  
 1.) RESTRAIN TO NEXT FULL JOINT BEYOND GIVEN LENGTH.  
 2.) RESTRAIN 11.25° BENDS 50% OF LENGTH FOR 22.5° BENDS.  
 3.) ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.  
 4.) ALL VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 180 PSI TEST PRESSURE IN EITHER DIRECTION.  
 5.) PIPE SIZES ARE GIVEN IN INCHES.  
 6.) PIPE LENGTHS ARE GIVEN IN FEET.  
 7.) LENGTHS SHOWN ARE FOR A TEST PRESSURE OF 180 PSI.  
 8.) THE RESTRAINED LENGTHS SHOWN IN THESE TABLES ARE BASED ON THE USE OF LIGHTLY COMPACTED CLEAN SAND WITH AT LEAST A 95% COARSE PARTICLE CONTENT. ACTUAL SOIL CONDITIONS MUST BE DETERMINED BY THE ENGINEER OF RECORD AND THE RESTRAINED LENGTHS MODIFIED ACCORDINGLY.

**REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DIP (NON-WRAPPED)**

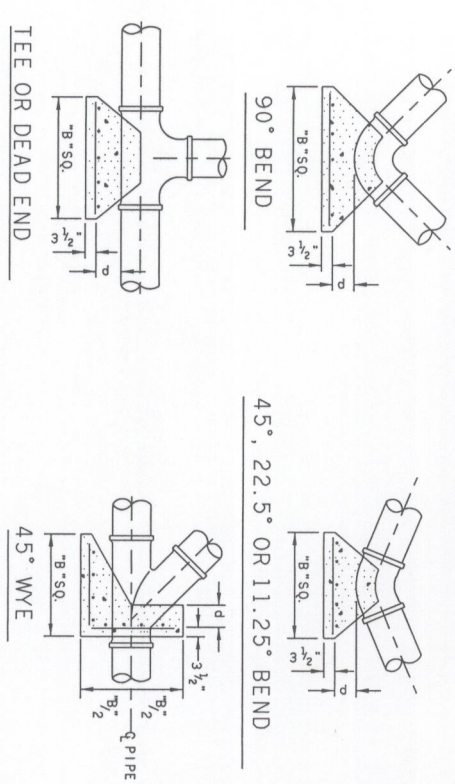
MAIN PIPE SIZE	HORIZ. BENDS		TEES		REDUCERS		PLUGS
	90°	45°	90°	45°	90°	45°	
36	100	42	20	20	20	20	222
30	88	37	18	18	18	18	192
24	75	31	15	15	15	15	161
20	65	27	13	13	13	13	138
16	54	22	11	11	11	11	114
12	43	18	8	8	8	8	89
10	37	15	7	7	7	7	76
8	30	13	6	6	6	6	63
6	24	10	5	5	5	5	49
4	17	7	3	3	3	3	34

- NOTE:  
 SEE DETAIL UW-14A FOR NOTES 1 THRU 8

PIPE SIZE (IN.)	THRUST BLOCK DIMENSIONS						B ft. x d inches	
	90° BEND	45° BEND	22.5° BEND	11.25° BEND	DEAD END & TEE	45° WYE		
4	1.3	3 1/2	1.0	3 1/2	0.6	3 1/2	1.1	3 1/2
6	1.9	4 1/2	1.5	3 3/4	1.1	3 1/2	1.6	4
8	2.6	6 1/4	1.9	4 3/4	1.4	3 1/2	2.2	5 1/2
10	3.2	7 3/4	2.4	6	1.7	4 1/4	2.7	6 1/2
12	3.8	9 1/4	2.8	6 3/4	2.0	5	3.2	7 3/4
14	4.5	11	3.3	8	2.4	6	3.8	9 1/4
16	5.1	12 1/4	3.8	9 1/4	2.7	6 1/2	4.3	10 1/2
18	5.7	13 3/4	4.2	10 1/4	3.0	7 1/4	4.8	11 3/4
20	6.4	15 1/2	4.7	11 1/2	3.4	8 1/4	5.4	13
24	7.6	18 1/4	5.6	13 1/2	4.0	9 3/4	6.4	15 1/2
30	9.5	23	7.0	17	5.0	12	8.0	19 1/4
36	11.4	27 1/2	8.4	20 1/4	6.0	14 1/2	9.6	23

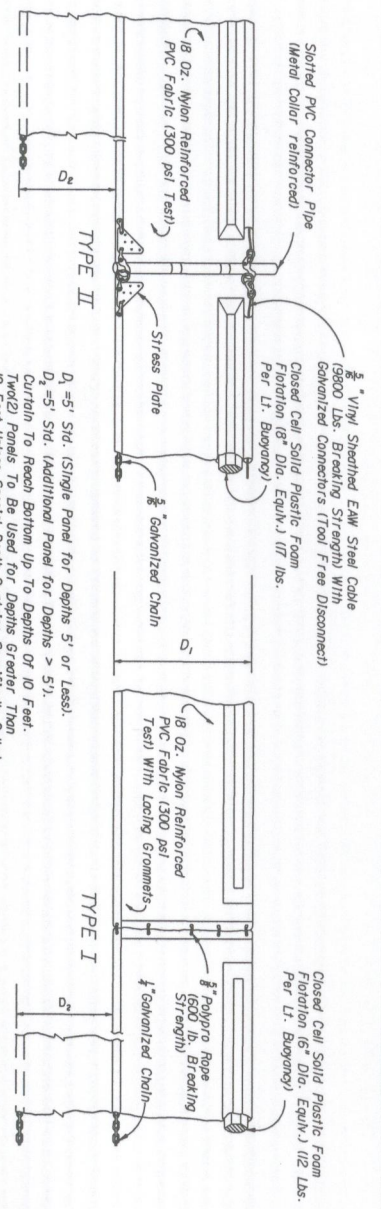
NOTES:

1. THIS TABLE IS BASED ON WATER PRESSURE=180 PSI WITH AN ALLOWABLE SOIL BEARING PRESSURE=2000 PSF. CONCRETE STRENGTH f=3000 PSI. REINFORCEMENT f=60,000 PSI. THRUST BLOCK CAST AGAINST FIRM UNDISTURBED OR COMPACTED SOIL.  
 2. FOR LARGER DIMENSIONS IT IS NECESSARY TO CHECK THAT PIPE IS SUFFICIENTLY DEEP TO ALLOW 15" MIN. SOIL COVER OVER TOP EDGE OF THRUST BLOCK.



THRUST BLOCK DETAILS



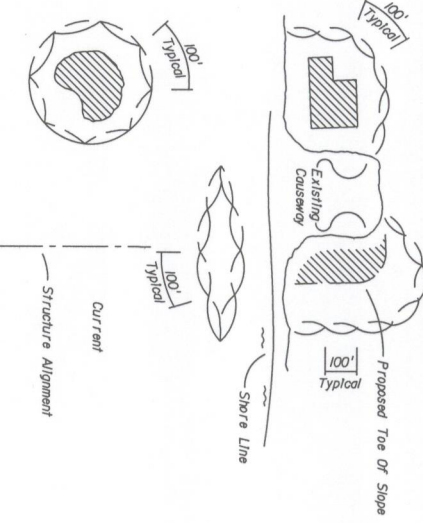


NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

**FLOATING TURBIDITY BARRIERS**

**LEGEND**

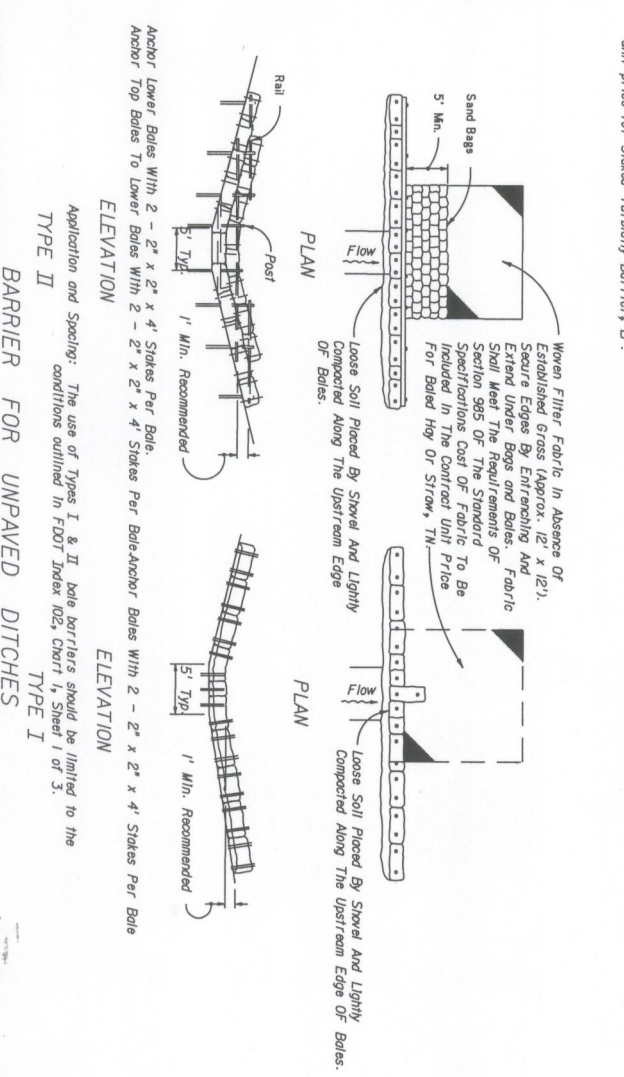
- Pile Locations
- Dredge Or Fill Area
- Moorings Buoys w/Anchor
- Anchor
- Barrier Movement Due To Current Action



**TURBIDITY BARRIER APPLICATIONS**

**SILTATION BARRIERS**

(FDOT INDEX #102 & #103) N.T.S.



Application and Spacing: The use of Types I & II bale barriers should be limited to the conditions outlined in FOOT Index 102, Chart 1, Sheet 1 of 3.

**TYPE II**

**TYPE I**

TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

**63rd AVE EAST**

OVER PEARCE CANAL

BRIDGE NO. 134042

MANATEE COUNTY, FLORIDA

**WADELTRIM**

www.wadelttrim.com

8745 HENDERSON ROAD, SUITE 220

TAMPA, FLORIDA 33634

813.882.8396 FAX 813.984.5990

CERTIFICATE OF AUTHORIZATION NO. 3952

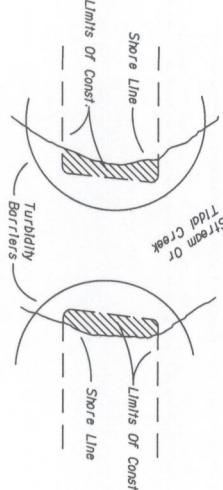
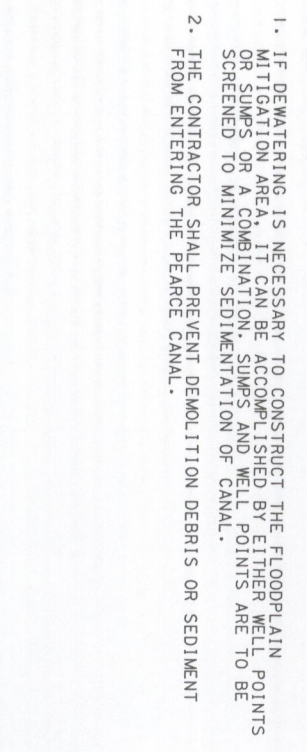
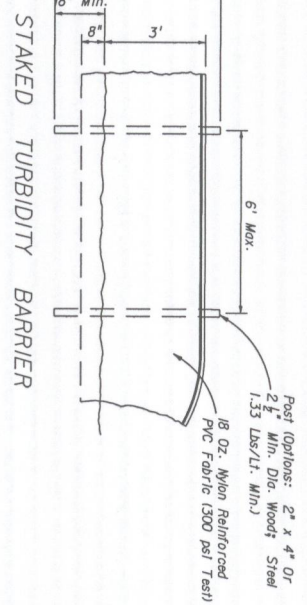
ENGINEER

JEFFREY D. TRIM, PE No. 42106

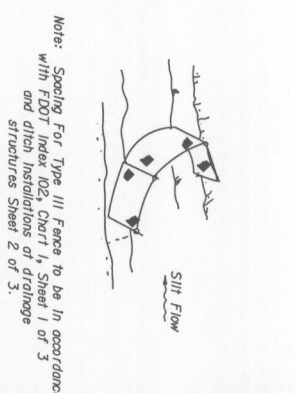
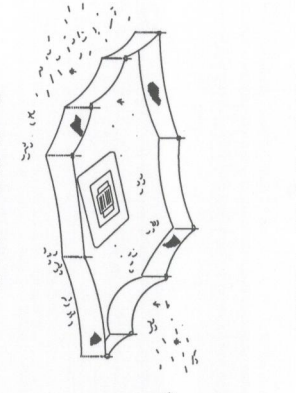
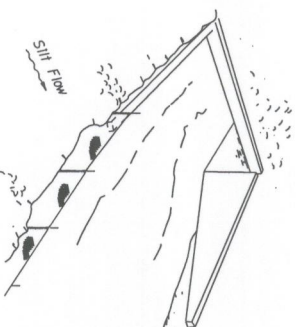
PROJ. NO. 3196

DWG. DATE

**EROSION CONTROL DETAILS**



Note: Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combination of types that will suit site conditions and meet erosion control and water quality requirements. The barrier types will be at the Contractor's option unless otherwise specified in the plans, however payment will be under the pay item(s) established in the plans for Floating Turbidity Barrier and/or Staked Turbidity Barrier. Posts in staked position unless otherwise directed by the Engineer.

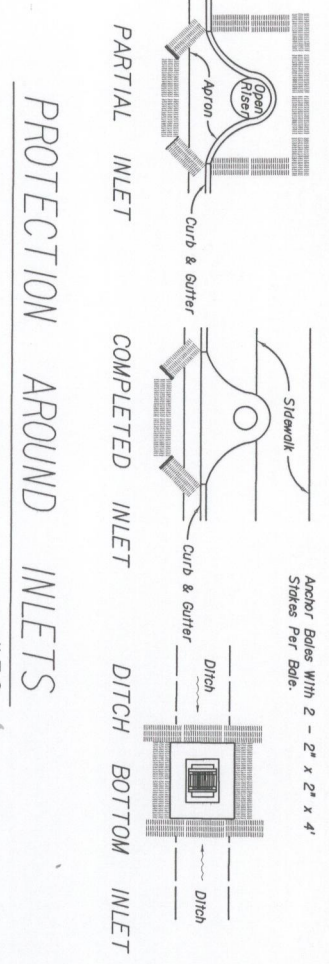


**SILT FENCE APPLICATIONS**

N.T.S.

**PROTECTION AROUND INLETS**

N.T.S.



DESIGNED BY	ALS	DATE	11/04	REVISION DESCRIPTION & DATE	BY	NO.	PUBLIC WORKS DEPT
CHECKED BY	JDI	DATE	11/04				
DRAWN BY	ALS	DATE	11/04				
CHECKED BY	JDI	DATE	11/04				
SUPERVISED BY	JEFFREY D. TRIM, P.E.						

**BARRIERS FOR UNPAVED DITCHES**

**BARRIERS FOR FILL SLOPES**

**EROSION CONTROL DETAILS**

STORM WATER POLLUTION PREVENTION PLAN

OWNER'S REQUIREMENTS

SITE DESCRIPTION	
PROJECT NAME AND LOCATION:	63 RD AVENUE EAST (SAUNDERS RD) OVER PEARCE CANAL, SCT'S 20 & 29, TWP 35 S, RGE 18 E
OWNER NAME AND ADDRESS:	MANATEE COUNTY GOVERNMENT PROJECTS MANAGEMENT DEPARTMENT 1026 26 TH AVENUE EAST BRADENTON, FLORIDA 34208-3926 TEL (941) 708-7450
DESCRIPTION:	THIS PROJECT WILL CONSIST OF: BRIDGE REPLACEMENT, ROADWAY WIDENING AT BRIDGE, DRAINAGE IMPROVEMENTS, FLOODPLAIN COMPENSATION AREA CONSTRUCTION, UTILITY WORK  SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING AND GRUBBING, INSTALLING SILT FENCING AND OTHER EROSION AND SEDIMENT CONTROLS, BRIDGE REMOVAL AND REPLACEMENT INCL. SHEET PILING, ROADWAY RECONSTRUCTION, STORM SEWER IMPROVEMENTS, UTILITY ADJUSTMENTS, CONSTRUCTION OF CURB AND SOD.  TOTAL AREA OF WORK IN, ON, OR OVER WETLANDS OR OTHER SURFACE WATERS: SURFACE WATERS (ROADSIDE DITCHES) = 0.575 ACRES WETLANDS = 0.066 ACRES TOTAL = 0.641 ACRES  SOILS: 5-BRADENTON FINE SAND, 15-DELRAY MUCKY LOAMY FINE SAND 22-FELDA FINE SAND, 25-FLORIDANA FINE SAND  SITE MAPS: * SEE ATTACHED CONSTRUCTION PLANS  GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS.  * SEE ATTACHED CONSTRUCTION PLANS FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS  SITE AREA: 1. TOTAL AREA OF PROJECT SITE = 2.590 ACRES 2. TOTAL AREA TO BE DISTURBED = VARIES 3. TOTAL IMPERVIOUS AREA = 1.094 ACRES  NAME OF RECEIVING WATERS: PEARCE CANAL

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

IN AN EFFORT TO ENSURE COMPLIANCE WITH FEDERAL, STATE AND LOCAL LAWS REGARDING EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED.	
FL. DEPT. OF HEALTH (NMI)	# 0133068-689 DSGP (Expires 10/3/10)
U.S.A.C.O.E. PERMIT	# SAJ-1999-02463-NM14 (Expires 3/18/2012)
S.W.F.W.M.D. E.R.P. PERMIT	# 44019387.002 (Expires 2/2/10)
IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER NPDES PERMIT(S) PRIOR TO STARTING CONSTRUCTION ACTIVITIES.	
GENERAL	

STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.

INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.

OTHER CONTROLS

PETROLEUM PRODUCTS

ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAG OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

SPILL CONTROL PRACTICES

THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON-SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.E. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILLS IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

- ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT. THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.
- ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
- BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
- SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.
- TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMITS THAT AUTHORIZES THE STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNATURE

BUSINESS NAME AND ADDRESS OF CONTRACTOR

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENT OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. PENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM, PRIOR TO PLACING THE SYSTEM INTO OPERATION.

SEQUENCE OF MAJOR ACTIVITIES:

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE, IF NECESSARY
2. INSTALL SILT FENCES, SYNTHETIC BALES, FLOATING AND/OR STAKED TURBIDITY BARRIERS, AS REQUIRED
3. CLEARING AND GRUBBING
4. STOCK PILE TOP SOIL, IF REQUIRED
5. REMOVAL AND REPLACEMENT OF EXISTING BRIDGE
6. STORM DRAIN IMPROVEMENTS AND FLOODPLAIN MITIGATION AREA CONSTRUCTION
7. UTILITY IMPROVEMENTS AND ADJUSTMENTS
8. STABILIZE DENuded AREAS AND STOCKPILES AS SOON AS PRACTICABLE
9. ROADWAY WIDENING AND RECONSTRUCTION
10. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD
11. COMPLETE FINAL PAVING, SIGNING, MARKING AND STRIPING
12. REMOVE ACCUMULATED SEDIMENT
13. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY EROSION CONTROL DEVICES AND SOD AS REQUIRED

EROSION CONTROL MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES, SYNTHETIC BALES, STAKED AND FLOATING TURBIDITY CONTROL DEVICES, STABILIZED CONSTRUCTION ENTRANCE WILL BE CONSTRUCTED PRIOR TO CLEARING AND GRUBBING. UTILITIES OR GRADING OF ANY OTHER PORTIONS OF THE SITE, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED AND THE AREA STABILIZED IN ACCORDANCE WITH THE SEDIMENT AND EROSION CONTROL PLAN.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN IN THE SEDIMENT AND EROSION CONTROL PLAN. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

HAZARDOUS WASTE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES BY THE SITE SUPERINTENDENT. THE INDIVIDUAL, WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

OFF-SITE VEHICLE TRACKING

IF NECESSARY, A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP/PAULIN.

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ON SITE DURING CONSTRUCTION:

CONCRETE	TAR	FERTILIZERS
ASPHALT	DETERGENTS	PETROLEUM BASED PRODUCTS
		CLEANING SOLVENTS

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

- AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
- ALL MATERIALS STORED ON-SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
- PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
- SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
- THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ON-SITE RECEIVE PROPER USE AND DISPOSAL.

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMITS THAT AUTHORIZES THE STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNATURE

BUSINESS NAME AND ADDRESS OF CONTRACTOR

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES (BMP'S) TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. THE CONSTRUCTION PLANS HAVE BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS AS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL STATE AND LOCAL LAWS. REFER TO "CONTRACTOR'S REQUIREMENTS" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.

STORM WATER MANAGEMENT

STORM WATER DRAINAGE WILL BE PROVIDED BY STORM SEWER, INLETS AND CATCH BASINS FOR THE DEVELOPED AREAS. AREAS WHICH ARE NOT DEVELOPED BUT WILL BE REGRADED SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE. WHEN CONSTRUCTION IS COMPLETE, WHERE PRACTICAL, WHEN UPSLOPE AREAS ARE STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED AND THE AREA WILL BE SODDED.


EROSION CONTROL MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES, SYNTHETIC BALES, STAKED AND FLOATING TURBIDITY CONTROL DEVICES, STABILIZED CONSTRUCTION ENTRANCE WILL BE CONSTRUCTED PRIOR TO CLEARING AND GRUBBING. UTILITIES OR GRADING OF ANY OTHER PORTIONS OF THE SITE, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED AND THE AREA STABILIZED IN ACCORDANCE WITH THE SEDIMENT AND EROSION CONTROL PLAN.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN IN THE SEDIMENT AND EROSION CONTROL PLAN. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

DESIGNED BY	ALS	DATE	11/04	REVISION DESCRIPTION & DATE	
CHECKED BY	JDI	DATE	11/04		
DRAWN BY	ALS	DATE	11/04		
CHECKED BY	JDI	DATE	11/04		
SUPERVISED BY	JEEBERRY, D., TRIM, P.E.				

MANATEE COUNTY FLORIDA



63rd AVE EAST  
OVER PEARCE CANAL  
BRIDGE NO. 134042  
MANATEE COUNTY, FLORIDA

WADETRIM

www.wadetrim.com  
8745 HENDERSON ROAD, SUITE 220  
TAMPA, FLORIDA 33634  
813.882.8396 FAX 813.884.5990  
CERTIFICATE OF AUTHORIZATION NO. 3952

ENGINEER	Jeffrey D. Trim, P.E. No. 42106
Proj. No.	3196
Dwg. Date	
STORMWATER POLLUTION PREVENTION PLAN	



**GENERAL NOTES**

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE STARTING WORK.
2. CONSTRUCTION DEBRIS SHALL BE KEPT OUT OF THE CANAL AT ALL TIMES. A FLOATING SILT BARRIER SHALL BE INSTALLED DOWNSTREAM FROM THE CONSTRUCTION SITE AND MAINTAINED FOR THE LIFE OF THE PROJECT. SILT BARRIER TO BE PAID FOR AS ITEM 104-11.
3. CHANNEL IMPROVEMENTS SHALL BE PAID FOR UNDER ITEM 120-1 REGULAR EXCAVATION.
4. FOLLOWING DESIGN STANDARD INDEXES SHALL BE REFERRED AND FOLLOWED ACCORDINGLY:
  - PRESTRESSED CONC PILES (INDEX NO. 20600)
  - PRESTRESSED CONC PILES (INDEX NO. 20618)
  - TRAFFIC RAILING BARRIER (INDEX NO. 423)
  - ALUMINUM PEDESTRIAN/BICYCLE RAILING (INDEX NO. 821)
  - ALUMINUM PEDESTRIAN/BICYCLE DETAILS (INDEX NO. 822, PAGE 1 OF 2)
  - ALUMINUM PEDESTRIAN/BICYCLE DETAILS (INDEX NO. 822, PAGE 2 OF 2)
  - APPROACH SLABS (INDEX NO. 20910, PAGE 1 OF 2)
  - APPROACH SLABS (INDEX NO. 20910, PAGE 2 OF 2)
  - STANDARD BAR BENDING DETAILS (INDEX NO. 21300)
5. CONTRACTOR WILL COORDINATE WITH FPL, GREG COKER (941-723-4430). A MINIMAL OF 2 WEEKS PRIOR TO CONSTRUCTION TO FACILITATE THE DE-ENERGIZATION OF THE FPL FACILITIES NORTH OF THE PROPOSED BRIDGE.

**STRUCTURAL SPECIFICATIONS & DESIGN CRITERIA**

**STANDARD SPECIFICATIONS:**

FLORIDA DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", 2007 EDITION, AND SUPPLEMENT THERETO, WITH MODIFICATIONS AS CONTAINED HEREIN. WHEREVER IN THE STANDARD SPECIFICATIONS THE TERM SECRETARY OR DIRECTOR OF ENGINEERING IS USED, THE MEANING SHALL BE THE COUNTY ENGINEER OR HIS APPOINTED REPRESENTATIVE.

FLORIDA DEPARTMENT OF TRANSPORTATION, "DESIGN STANDARDS", 2008 EDITION

DESIGN VEHICLE: HL-93

**FOUNDATION:**

FOUNDATION DESIGN IS BASED UPON SUBSURFACE SOILS INVESTIGATION, PROJECT NO 97-1625, DATED 9/8/98, BY ARDAMAN & ASSOCIATES, INC.. THE PILING SHALL BE INSTALLED ACCORDING TO THIS REPORT AND SECTION 455 OF THE FDOT STANDARD SPECIFICATIONS. A PILE DRIVING ANALYZER SHALL BE USED TO DETERMINE THE PILE DRIVING CRITERIA AND CAPACITY. THE COUNTY WILL PROVIDE THE MONITORING.

**PILE DESIGN CAPACITIES:**

18" SQUARE PRESTRESSED PILES SHALL BE DRIVEN TO ACHIEVE THE FOLLOWING MINIMUM CAPACITIES:  
 VERTICAL: 80 TONS  
 LATERAL: 4 TONS

**PRESTRESSED PILES:**

THE PILES SHALL BE 18" SQUARE AND DRIVEN TO A MINIMUM TIP ELEVATION OF APPROXIMATELY -30 FT. THEY SHALL ALSO CONFORM TO ALL FDOT SPECIFICATIONS FOR 18" SQUARE PRE-STRESSED PILING.

**PRECAST SLAB UNITS:**

THE PRECAST PRESTRESSED CONCRETE SLAB UNITS SHALL CONFORM TO SECTION 450 OF THE FDOT STANDARD SPECIFICATIONS.

**REINFORCING STEEL:**

REINFORCING STEEL SHALL CONFORM TO ASTM 615, GRADE 60.

**CONCRETE:**

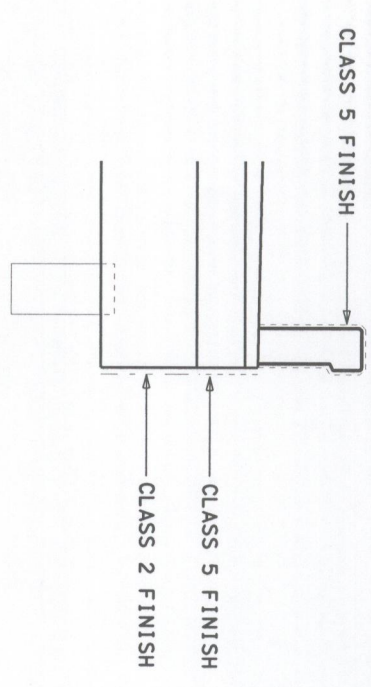
CLASS	LOCATION	MINIMUM 28 DAY COMPRESSION STRENGTH (psi)
IV	PRESTRESSED SLAB UNITS	5500
IV	CAST-IN-PLACE ( SUPERSTRUCTURE )	5500
IV	CAST-IN-PLACE ( SUBSTRUCTURE )	5500
V	PRESTRESSED PILES	6000
II	BARRIER RAIL	3400

**CONCRETE NOTES:**

1. CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 346 OF THE FDOT STANDARD SPECIFICATIONS.

**FINISHES:**

SHEET PILE AND PILE CAPS SHALL RECEIVE A CLASS 2 APPLIED FINISH. PARAPET BARRIER, WING POSTS AND DECK EDGE SHALL RECEIVE A ALGAE RESISTANT CLASS 5 APPLIED FINISH AS MANUFACTURED BY THORO OR AN APPROVED EQUAL APPROACH SLABS SHALL RECEIVE A CLASS 4 APPLIED FINISH.



**SURFACE FINISH DETAIL**

THE COST TO APPLY THE CLASS 2 FINISH SHALL BE INCIDENTAL TO PAY ITEM 400-4-5

**SUBMITTALS:**

CONTRACTOR SHALL SUBMIT THE FOLLOWING SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL:

- CONCRETE MIX DESIGNS
- CLASS 5 FINISH
- SHEET PILES
- PRESTRESSED SLAB UNITS
- POST TENSION SYSTEM
- JOINT SEAL

**CONSTRUCTION:**

ALL SHEET PILE JOINTS AND WEEP HOLES SHALL BE BACKED WITH FILTER CLOTH. THE CONTRACTOR SHALL PLACE SOD OVER ALL DAMAGED OR IMPROVED AREAS AFFECTED BY THE WORK. THE SOD SHALL MATCH THE TYPE OF SURROUNDING GRASS TO THE GREATEST EXTENT POSSIBLE.

**LEGEND:**

FFAS - FRONT FACE OF APPROACH SLAB

DESIGNED BY	DMS	DATE	5/98	REVISION DESCRIPTION & DATE	BY NO.	PUBLIC WORKS DEPT	<p><b>63rd AVE EAST</b>                  OVER PEARCE CANAL                  BRIDGE NO. 134042                  MANATEE COUNTY, FLORIDA</p>	<p>www.wadeftrim.com                  8745 HENDERSON ROAD, SUITE 220                  TAMPA, FLORIDA 33634                  813.882.8366 FAX 813.884.5990                  CERTIFICATE OF AUTHORIZATION NO. 3952</p>	ENGINEER OF RECORD	PROJ. No.	3196
CHECKED BY	KLM	DATE	5/98			JEFFREY D. TRIM, P.E. No. 42106			DWG. DATE		
DRAWN BY	RLS	DATE	5/98								
CHECKED BY	KLM	DATE	5/98								
SUPERVISED BY	JEFFREY D. TRIM, P.E.	DATE	4/21/06								
<b>GENERAL NOTES</b>											

BEGIN CONST.  
BEGIN MILL & RESURFACE  
STA. 240+15.00

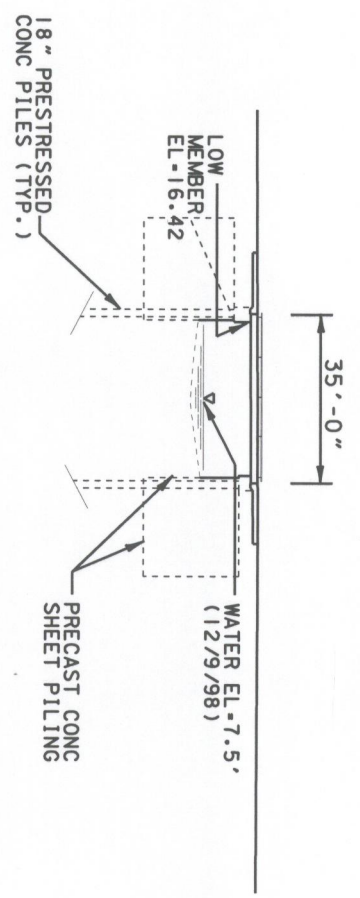
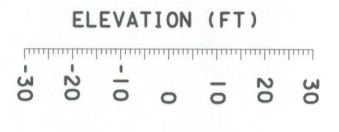
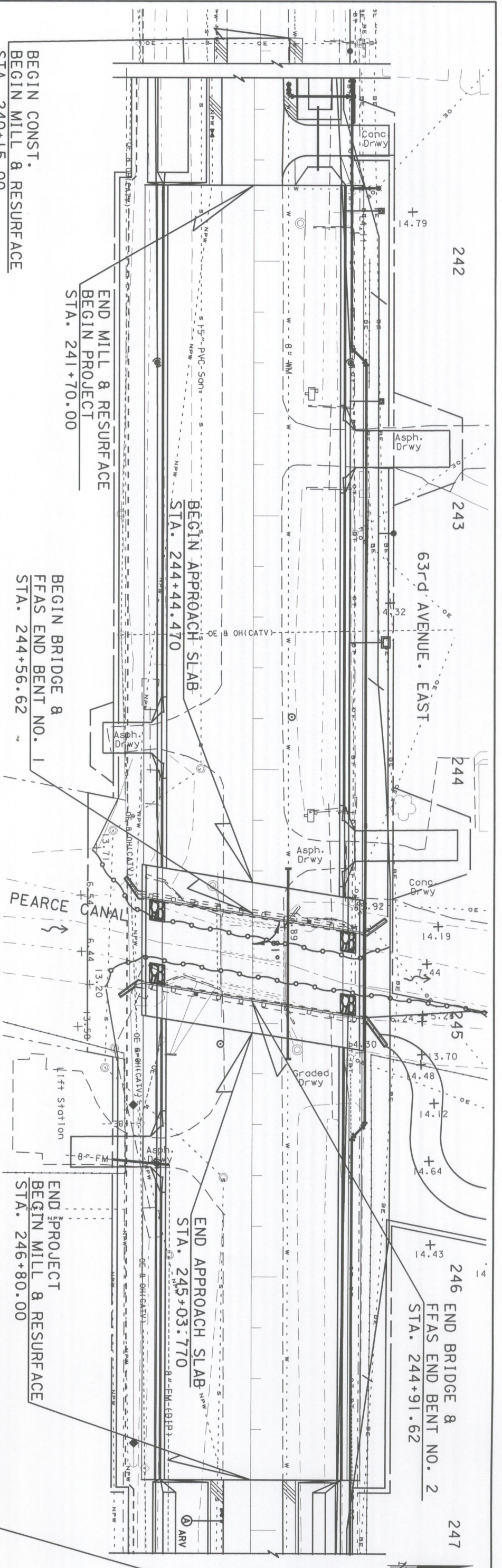
END MILL & RESURFACE  
BEGIN PROJECT  
STA. 241+70.00

BEGIN BRIDGE &  
FFAS END BENT NO. 1  
STA. 244+56.62

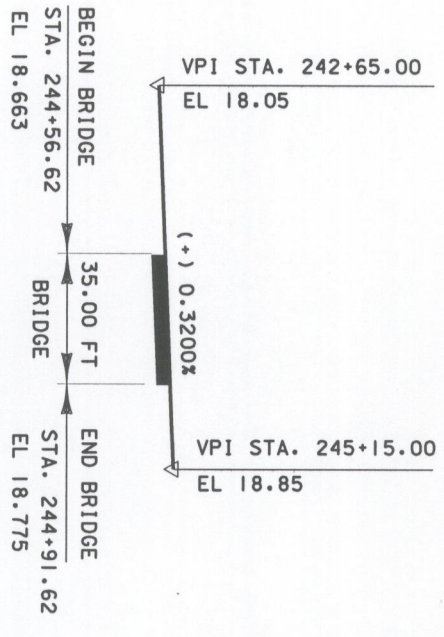
BEGIN APPROACH SLAB  
STA. 244+44.470

END PROJECT  
BEGIN MILL & RESURFACE  
STA. 246+80.00

END MILL & RESURFACE  
END CONST.  
STA. 247+65.00



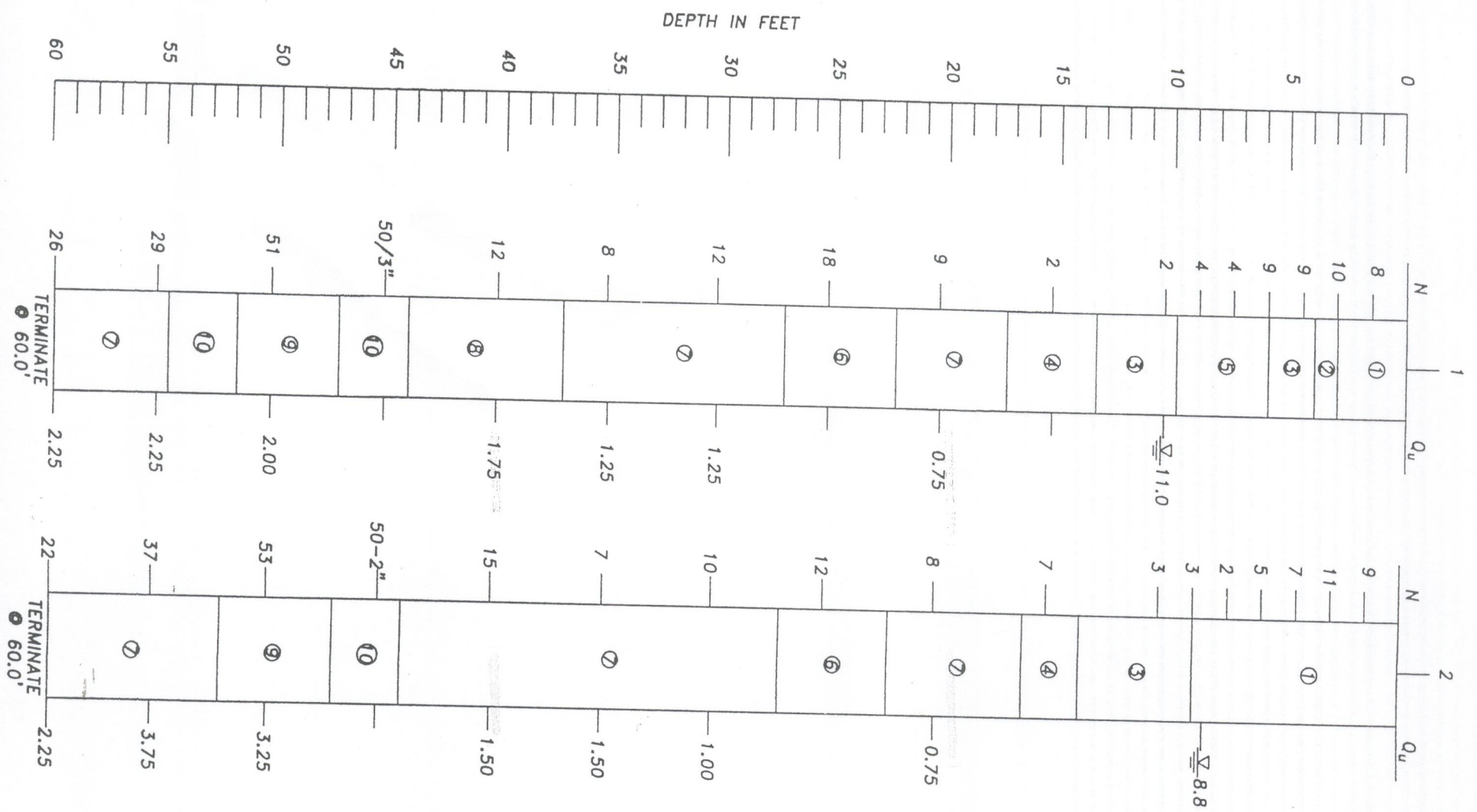
ELEVATION



DESIGNED BY	DMG	DATE	5/98	REVISION DESCRIPTION & DATE	BY NO.	PUBLIC WORKS DEPT
CHECKED BY	KLM	DATE	5/98			
DRAWN BY	RLS	DATE	5/98			
CHECKED BY	KLM	DATE	5/98			
SUPERVISED BY	JEFFREY D. TRIM, P.E. #42106					

	<b>63rd AVE EAST</b> OVER PEARCE CANAL BRIDGE NO. 134042 MANATEE COUNTY, FLORIDA	WADETRIM 8745 HENDERSON ROAD, SUITE 220 TAMPA, FLORIDA 33634 813.882.8386 FAX 813.884.5990 CERTIFICATE OF AUTHORIZATION NO. 3952
	ENGINEER OF RECORD Jeffrey D. Trim, PE No. 42106	
Proj. No. 3196 Dwg. Date		PLAN AND ELEVATION



**LEGEND**

- ① - BROWN TO GRAY FINE SAND (SP)
  - ② - GRAY FINE SAND (SP)
  - ③ - BROWN FINE SAND WITH SILT (SP-SM)
  - ④ - GRAY FINE SAND WITH SILT (SP-SM)
  - ⑤ - GRAY SILTY FINE SAND (SM)
  - ⑥ - GRAY VERY CLAYEY FINE SAND WITH PHOSPHATE (SC)
  - ⑦ - GRAY CLAY (CH,CL)
  - ⑧ - GRAY CLAY WITH PHOSPHATE (CH)
  - ⑨ - GRAY SILT WITH PHOSPHATE (ML)
  - ⑩ - GRAY SILT AND CEMENTED SILT (LIMEROCK) (ML)
- N - STANDARD PENETRATION RESISTANCE (BLOWS PER FOOT)  
 Qu - UNCONFINED COMPRESSIVE STRENGTH (TSF)  
 ∇ - WATER TABLE LEVEL, AUGUST 24-26, 1998

**ENGINEERING CLASSIFICATION**

--COHESIONLESS SOILS--

DESCRIPTION:	BLOW COUNT:
VERY LOOSE	0 TO 4
LOOSE	4 TO 10
MEDIUM DENSE	10 TO 30
DENSE	30 TO 50
VERY DENSE	ABOVE 50

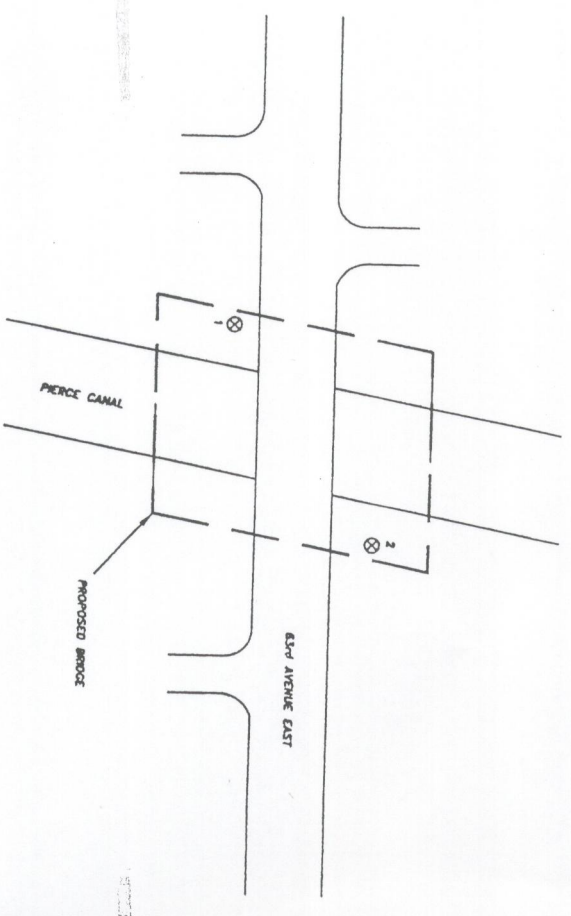
---COHESIVE SOILS---

DESCRIPTION:	UNCONFINED COMPRESSIVE STRENGTH, TSF	BLOW COUNT
VERY SOFT	BELOW .25	0 TO 2
SOFT	.25 TO .50	2 TO 4
MEDIUM STIFF	.50 TO 1.0	4 TO 8
STIFF	1 TO 2	8 TO 15
VERY STIFF	2 TO 4	15 TO 30
HARD	ABOVE 4	ABOVE 30

**NOTE:**  
 THE BORING LOGS AND RELATED INFORMATION REPRESENT OUR INTERPRETATION OF THE SUBSURFACE CONDITIONS AT THE DESIGNATED BORING LOCATION ONLY AND ON THE PARTICULAR DATE DRILLED.

**DRILL RIG:** CME45  
**SPLIT SPOON SAMPLER:** 1.375" INSIDE DIAMETER  
 2.0" OUTSIDE DIAMETER  
 1.5" LENGTH  
**HAMMER:** 140 LB WEIGHT  
 30 INCH DROP  
**CATHEAD:** 2.25 ROPE TURNS

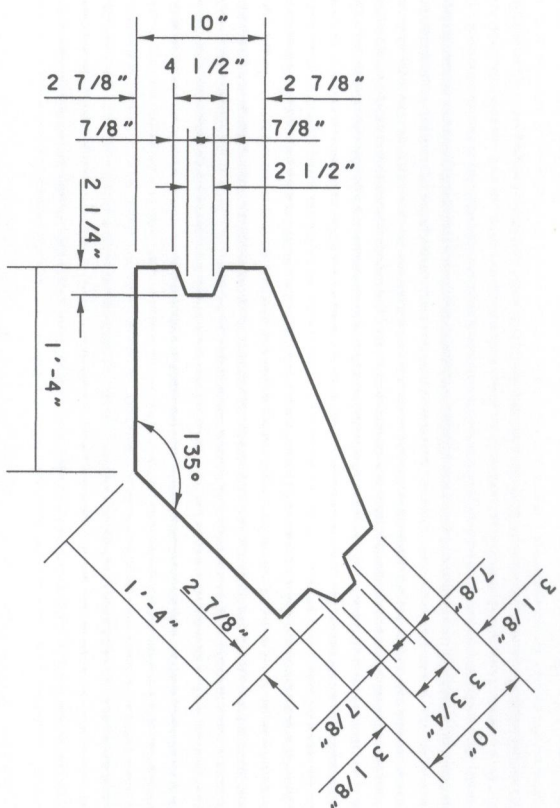
SCALE: 1" = 30'  
 ⊗ - TEST BORING LOCATION



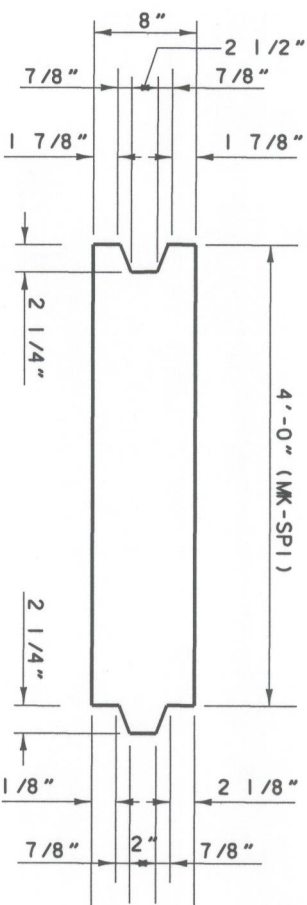
**Ardamon & Associates, Inc.**  
 Geotechnical, Environmental and  
 Materials Consultants

**63rd AVENUE BRIDGE  
 OVER PIERCE CANAL  
 MANATEE COUNTY, FLORIDA**

DRAWN BY: MEO	CHECKED BY:	DATE: 9/29/98
PLC NO. 97-7625	APPROVED BY:	FOUR: 8-4



CORNER PILE MK-CPI (4 REQ'D.)



SHEET PILE MK-SPI (53 REQ'D.)

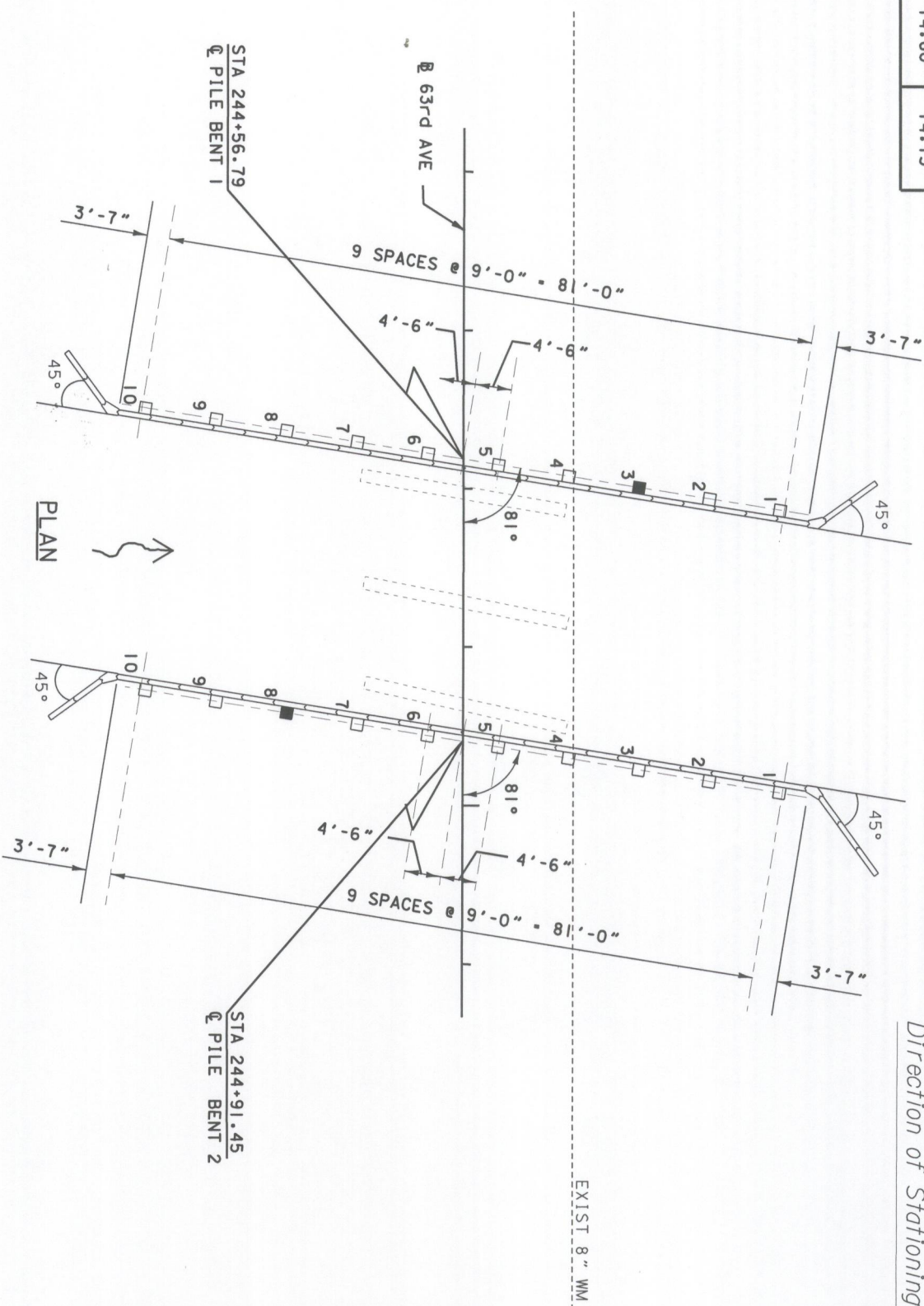
**SHEET PILING NOTES:**

SHEET PILING TO BE 20 FOOT IN LENGTH.  
 SHEET PILING SHOULD HAVE A MOMENT CAPACITY OF 11,000 FT-LBS/FT  
 PRESTRESSING SHALL EXTEND 6" FROM THE TOP OF THE SHEET PILE.  
 ALL SHEET PILE JOINTS AND WEEP HOLES SHALL BE BACKED  
 WITH FILTER CLOTH.  
 SHOP DRAWINGS FOR SHEET PILING SHOULD INCLUDE AN INSTALLATION PLAN.  
 SEE SHEET B-14 FOR TIE-BACK DETAIL.

DESIGNED BY	DMS	DATE	5/98	REVISION DESCRIPTION & DATE	BY NO.
CHECKED BY	KLM	DATE	5/98		
DRAWN BY	RLS	DATE	5/98		
CHECKED BY	KLM	DATE	5/98		
SUPERVISED BY	JEFFREY D. TRIM, P.E. #42106				

PILE NUMBER	EB-1	EB-2
1-10	14.60	14.75

LOCATION	PILE NUMBER	LENGTH FT
EB-1	3	55
EB-2	8	55



**LEGEND**

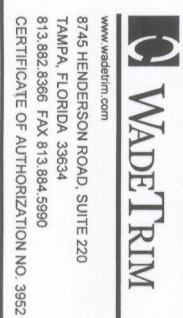
- TEST PILE
- NEW PILE

**PILING NOTES:**

ALL PILES SHALL BE 18" SQUARE PRESTRESSED CONCRETE PILES PER FDOT STANDARD STRUCTURES INDEX 600.  
 THE PILES SHALL BE DRIVEN TO A MINIMUM TIP ELEVATION OF APPROXIMATELY -30 FT.  
 ALL PILES UNLESS NOTED OTHERWISE ARE 45 FOOT IN LENGTH.  
 TEST PILES SHALL BE DYNAMICALLY MONITORED IN ACCORDANCE WITH FDOT SPECIFICATION 455-5.13

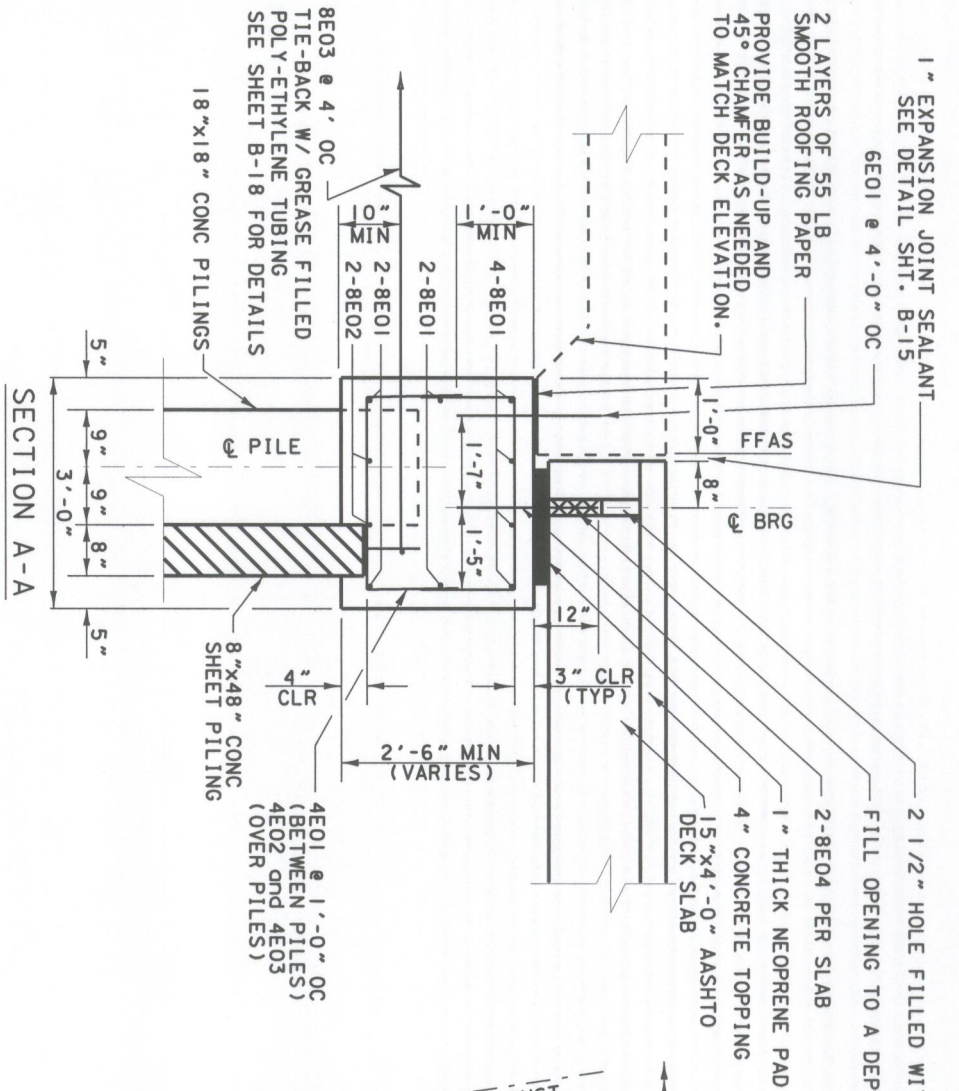


**63rd AVE EAST**  
 OVER PEARCE CANAL  
 BRIDGE NO. 134042  
 MANATEE COUNTY, FLORIDA



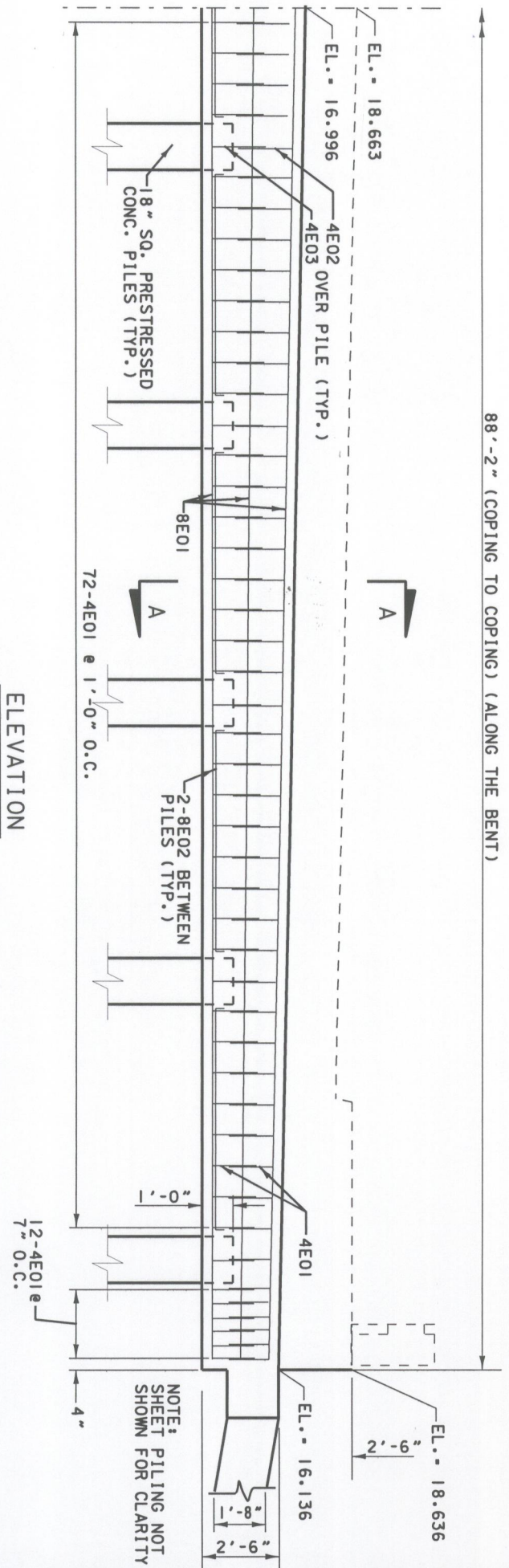
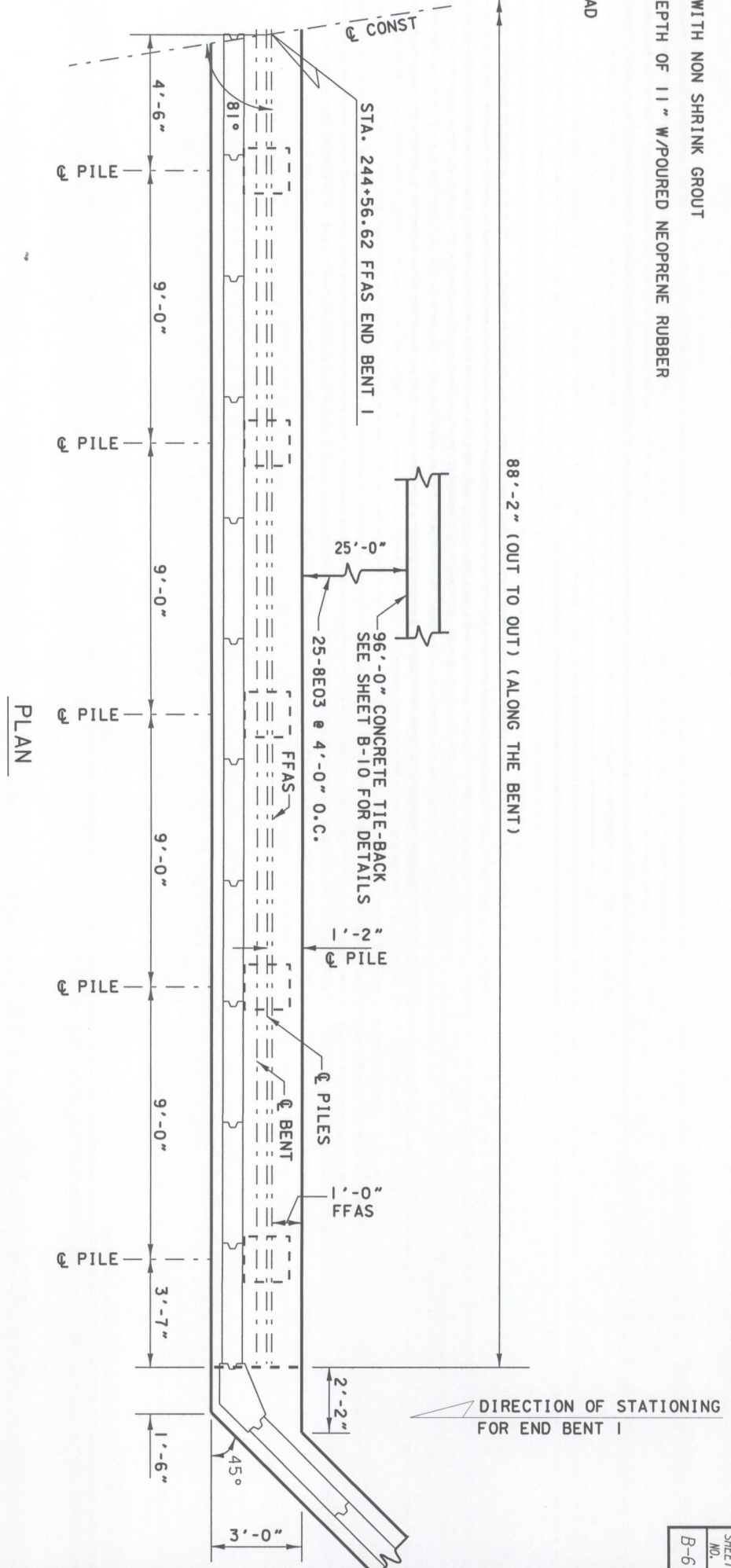
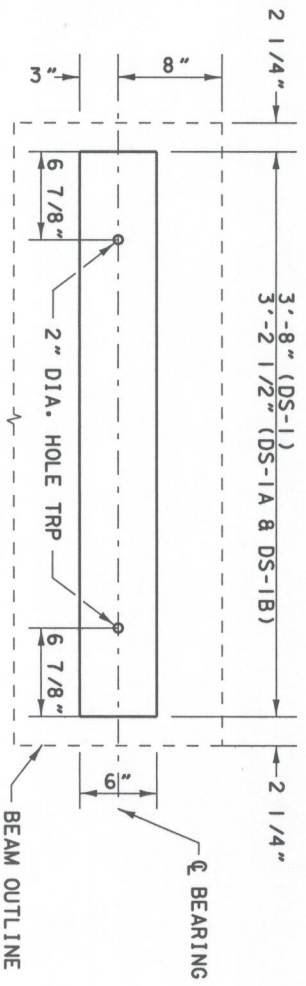
ENGINEER OF RECORD  
 Jeffrey D. Trim, P.E. No. 42106

Proj. No. 3196  
 Dwg. Date  
**FOUNDATION LAYOUT**



**ESTIMATED QUANTITIES**

ITEM	UNIT	QUANTITY
CLASS IV CONCRETE (SUBSTRUCTURE)	CY	130
REINFORCING STEEL (SUBSTRUCTURE)	LB	14,619



DESIGNED BY	DATE	REVISION DESCRIPTION & DATE	BY NO.
DMS	5/98		
CHECKED BY	DATE <td></td> <td></td>		
KLM	5/98		
DRAWN BY	DATE <td></td> <td></td>		
RLS	5/98		
CHECKED BY	DATE <td></td> <td></td>		
KLM	5/98		
SUPERVISED BY	DATE <td></td> <td></td>		
JEFFREY D. TRIM, P.E. #42106	5/98		

MANATEE COUNTY  
FLORIDA

**63rd AVE EAST**  
OVER PEARCE CANAL  
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WADETRIM  
www.wadetrin.com  
8745 HENDERSON ROAD, SUITE 220  
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CERTIFICATE OF AUTHORIZATION NO. 3952

ENGINEER OF RECORD  
Jeffrey D. Trim, PE No. 42106

Prj. No. 3196  
Dwg. Date  
**END BENT I**

NOTE: PILING NOT SHOWN FOR CLARITY



DESIGNED BY	DWG	DATE	5/98
CHECKED BY	KLM	DATE	5/98
DRAWN BY	RLS	DATE	5/98
CHECKED BY	KLM	DATE	5/98
SUPERVISED BY	JEFFREY D. TRIM, P.E. #42106		

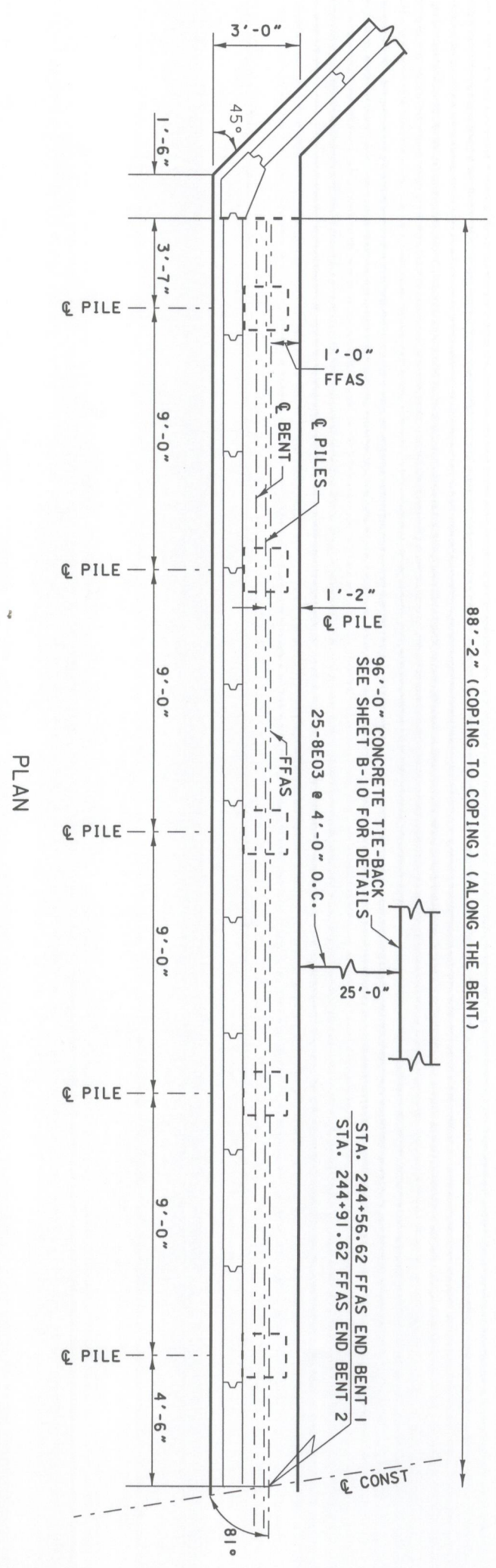
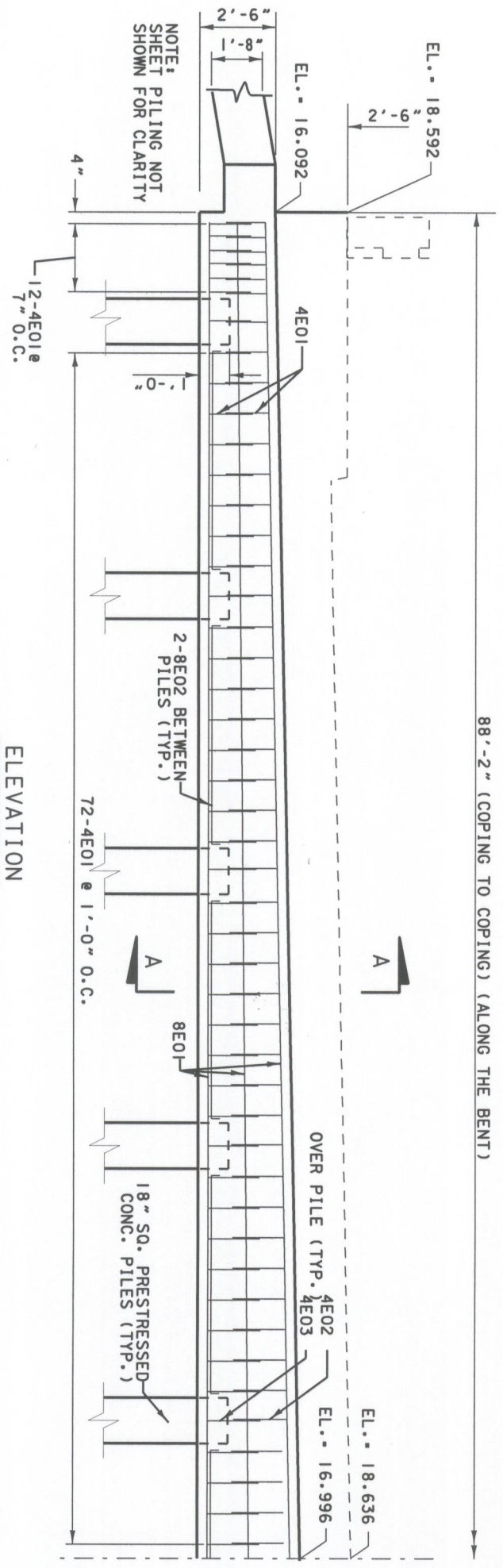
REVISION DESCRIPTION & DATE	BY NO.	PUBLIC WORKS DEPT

**63rd AVE EAST**  
 OVER PEARCE CANAL  
 BRIDGE NO. 134042  
 MANATEE COUNTY, FLORIDA

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 CERTIFICATE OF AUTHORIZATION NO. 3952

ENGINEER OF RECORD  
 Jeffrey D. Trim, PE No. 42106


Proj. No. 3196  
 Dwg. Date  
**END BENT 1**




DIRECTION OF STATIONING FOR END BENT 2

DESIGNED BY	DWG	DATE	5/98
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DRAWN BY	RLS	DATE	5/98
CHECKED BY	KLM	DATE	5/98
SUPERVISED BY	JEFFREY D. TRIM, P.E. #42106		

REVISION DESCRIPTION & DATE	BY	NO.

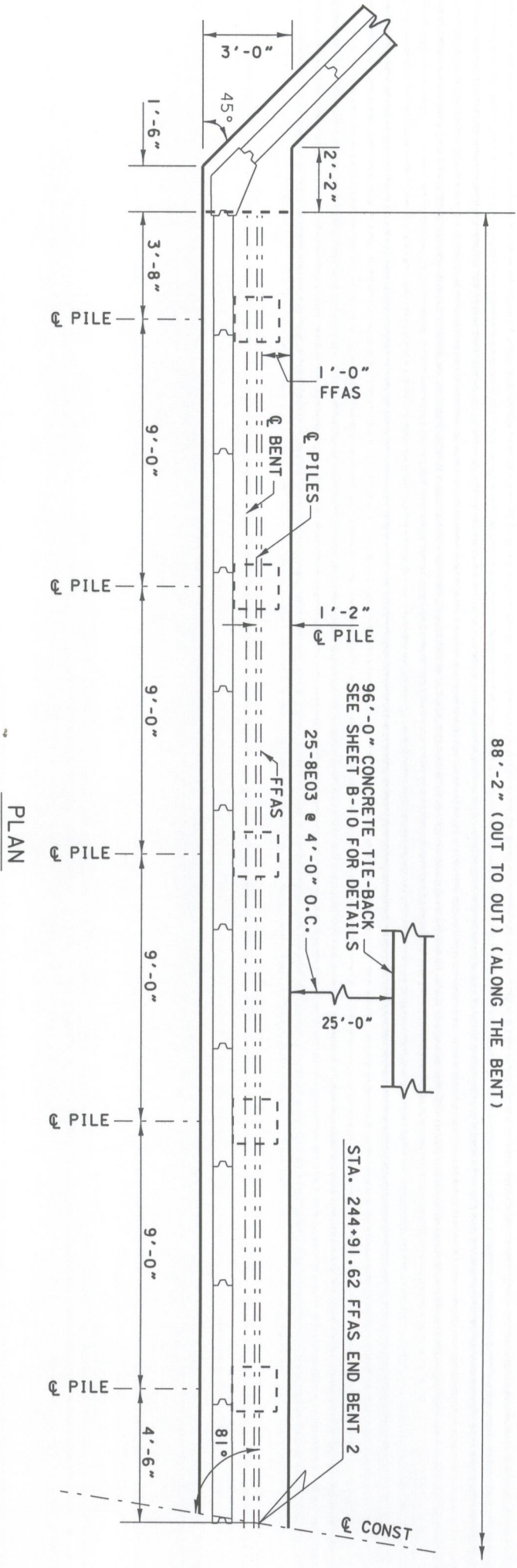
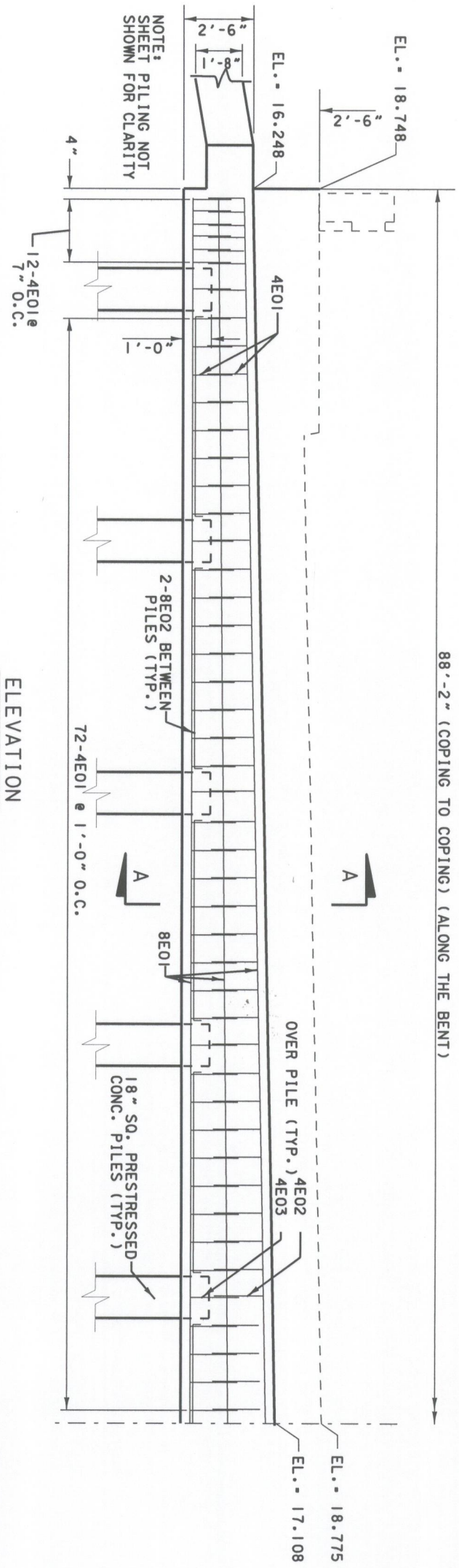
PUBLIC WORKS DEPT  


**63rd AVE EAST**  
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 BRIDGE NO. 134042  
 MANATEE COUNTY, FLORIDA

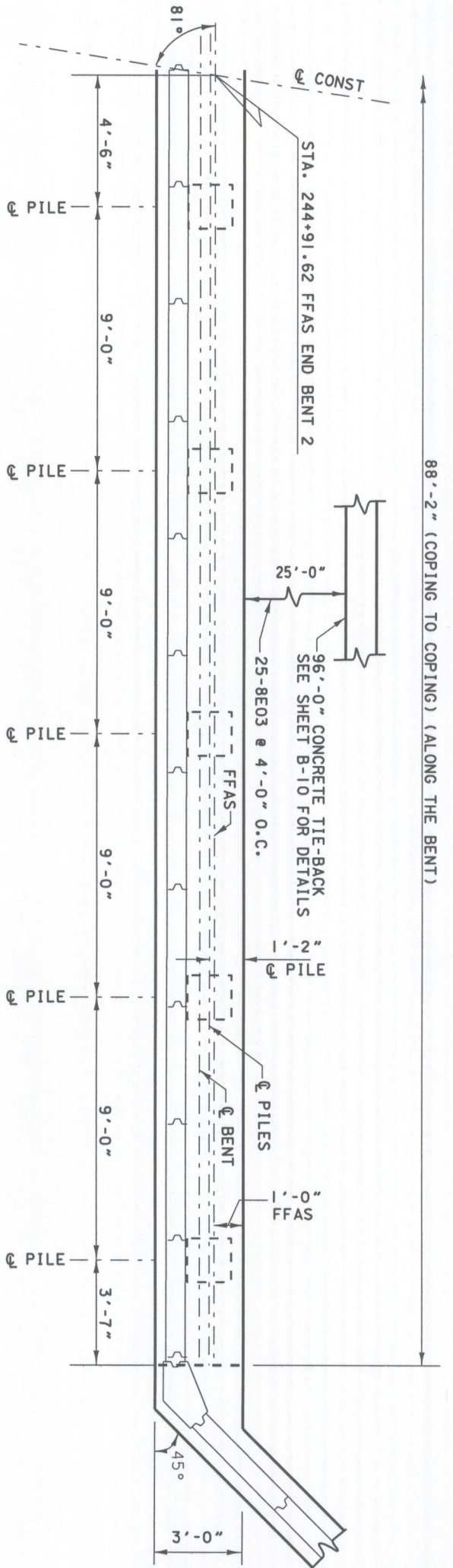
  
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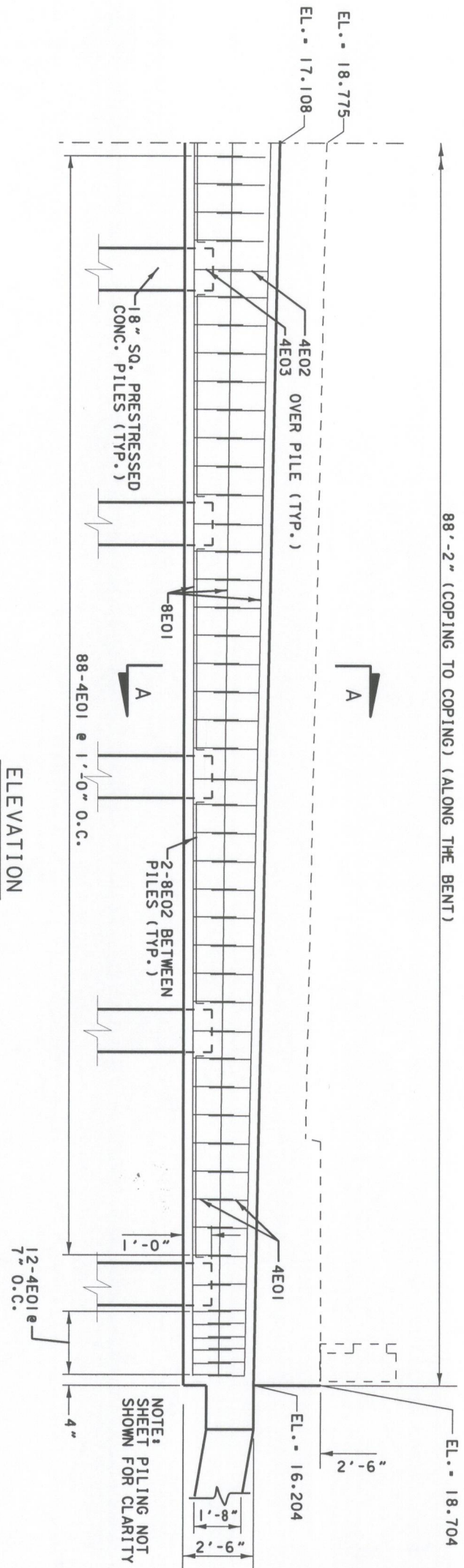
Proj. No. 3196  
 Date  
**END BENT 2**



DIRECTION OF STATIONING FOR END BENT 2



DIRECTION OF STATIONING FOR END BENT 2



ELEVATION

DESIGNED BY	DWG	DATE	5/98
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REVISION DESCRIPTION & DATE	BY NO.	PUBLIC WORKS DEPT

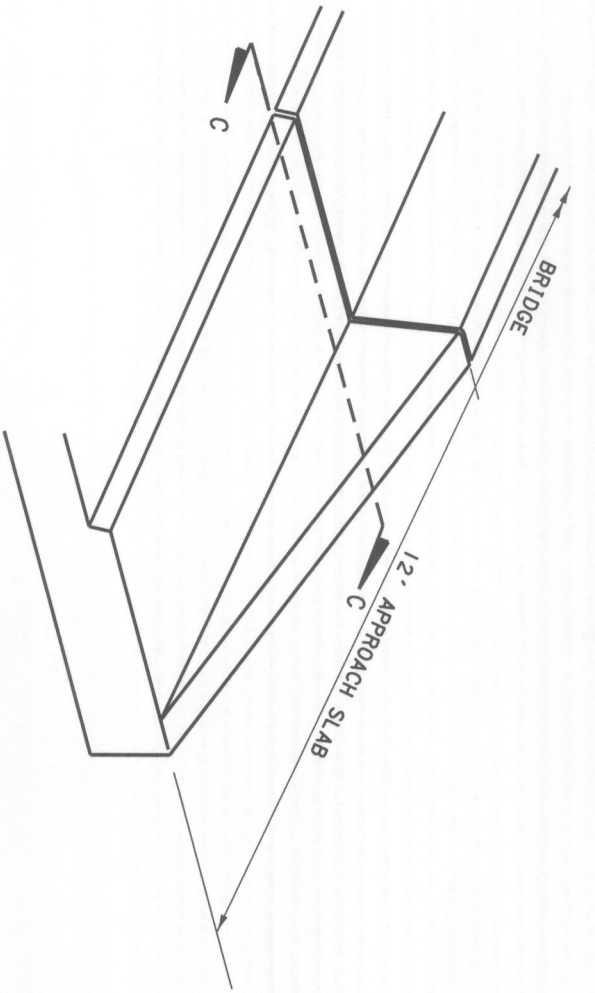


**63rd AVE EAST**  
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 MANATEE COUNTY, FLORIDA

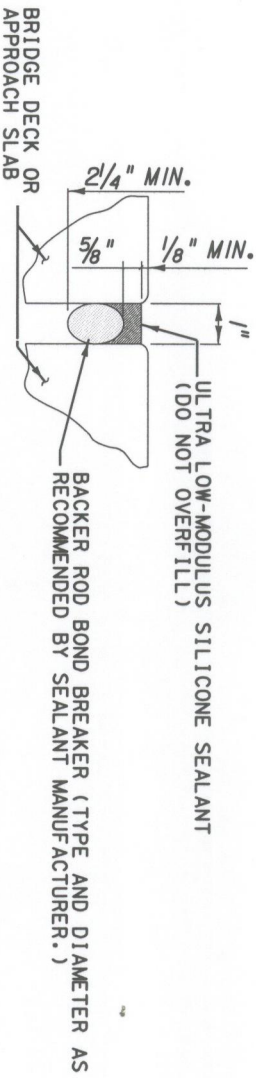
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 Jeffrey D Trim, PE No. 42106

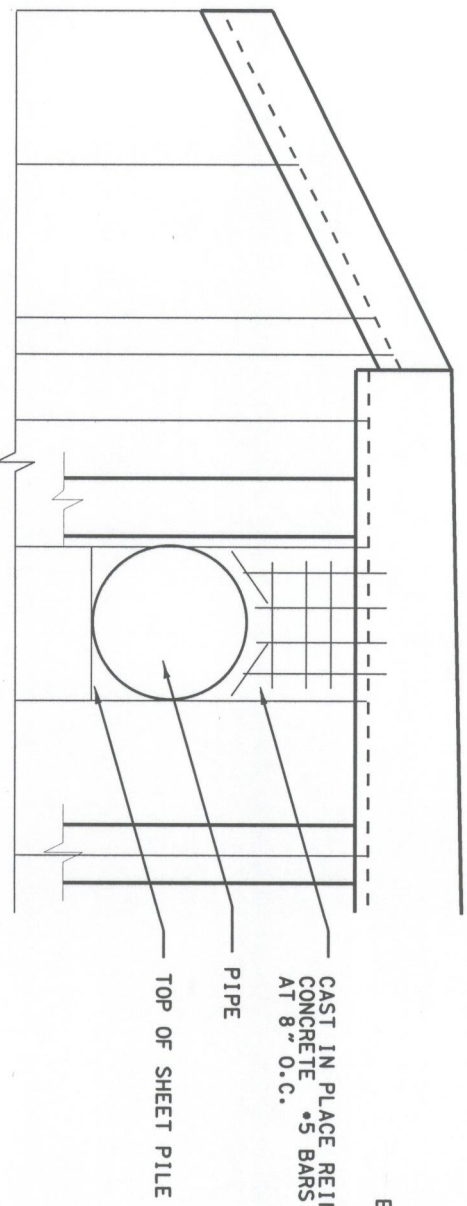
Proj. No. 3196  
 Dwg. Date  
 END BENT 2



**BARRIER TRANSITION**

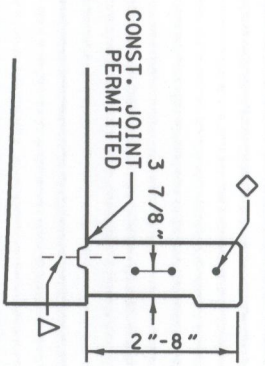


**EXPANSION JOINT DETAIL**

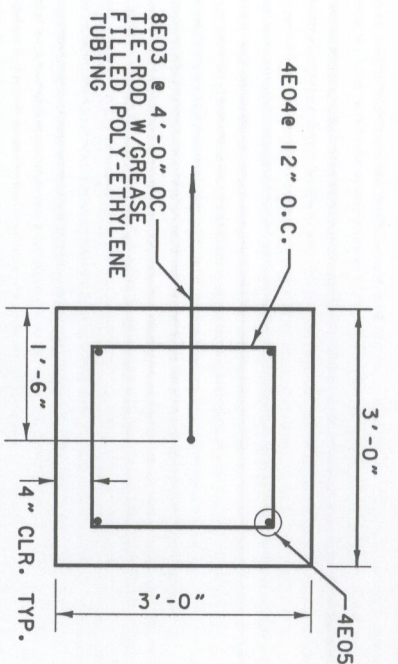


**DRAINAGE PIPE OUTLET DETAIL**

NOTE: THE COST OF THE REINFORCING STEEL AND CONCRETE REQUIRED TO ACCOMMODATE THE PIPE SHALL BE INCIDENTAL TO THE COST OF THE SHEET PILE WALL  
THE CONTRACTOR SHALL PLACE ADDITIONAL FILTER FABRIC BEHIND THE WALL AT THE PIPE OUTLET LOCATION.



**SECTION C-C**



**TIE-BACK DETAIL**

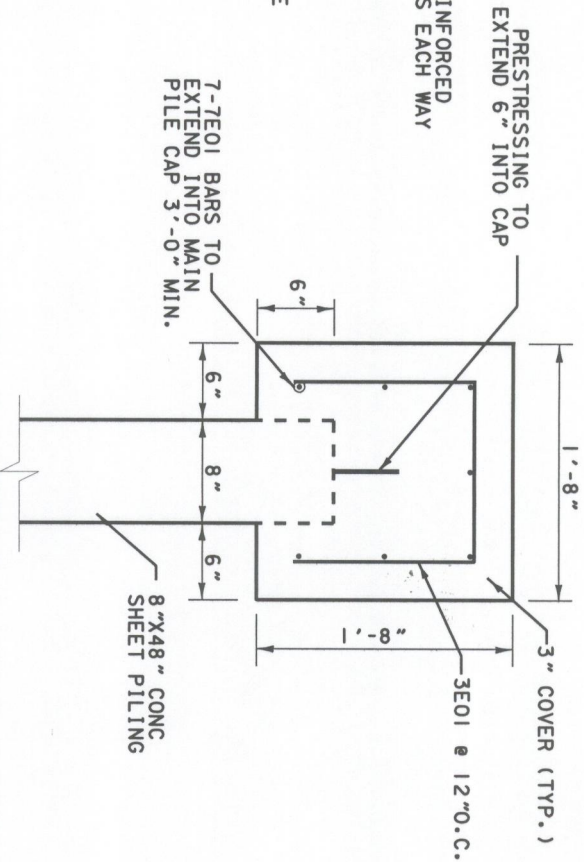
THE COST OF THE GREASE FILLED POLY ETHYLENE TUBING SHALL BE INCLUDED IN THE COST OF THE SUBSTRUCTURE CONCRETE.

**NOTES:**

TRANSITION SEGMENTS SHALL BE DOWELED INTO THE END OF THE BARRIER WALL. IN THE FOLLOWING MANNER: FOUR 1 1/4" DIAMETER HOLES 6" DEEP ON 6" CENTERS SHALL BE DRILLED IN THE BARRIER AND NO. 6 BARS 15" LONG SET IN EPOXY MORTAR. THE ENDS OF THE DOWELS EXTENDING INTO THE TRANSITION SEGMENT SHALL BE WRAPPED WITH ONE LAYER OF 15 LB. ASPHALT FELT WITH THE ENDS CRIMPED.

WHEN CONSTRUCTION JOINTS ARE UTILIZED FOR TRANSITION SEGMENT CONSTRUCTION THE STEM SHALL BE DOWELED TO THE FOOTING IN THE FOLLOWING MANNER: FIVE NO. 4 BARS 15" LONG SHALL BE EMBEDDED 7" INTO THE FOOTING. THE DOWELS SHALL BE SPACED 15" ON CENTERS WITH THE FIRST DOWEL LOCATED 12" FROM THE BARRIER WALL. DOWELS MAY BE PLACED WITHIN OR ADJACENT TO THE KEYWAY. THE COST OF CONCRETE AND STEEL REQUIRED TO CONSTRUCT THE BARRIER TRANSITION SHALL IN INCLUDED IN PAY ITEM 360-1 - CONCRETE APPROACH SLAB W/ REINFORCING.

THE CONCRETE AND STEEL REQUIRED TO CONSTRUCT THE BARRIER TRANSITION AND THE PORTION OF THE SIDE WALK ON THE APPROACH SLAB SHALL BE INCLUDED IN THE PAY ITEM 360-1 CONCRETE APPROACH SLAB.

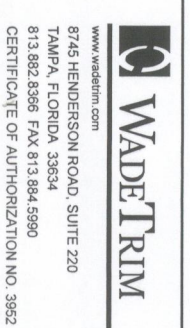


**SECTION B-B**

DESIGNED BY	DMG	DATE	5/98	REVISION DESCRIPTION & DATE	BY NO.	PUBLIC WORKS DEPT
CHECKED BY	KLM	DATE	5/98			
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**63rd AVE EAST**  
OVER PEARCE CANAL  
BRIDGE NO. 134042  
MANATEE COUNTY, FLORIDA



ENGINEER OF RECORD	Jeffrey D Trim, PE No. 42106	Proj. No.	3196
		Dwg. Date	

**END BENTS DETAILS**

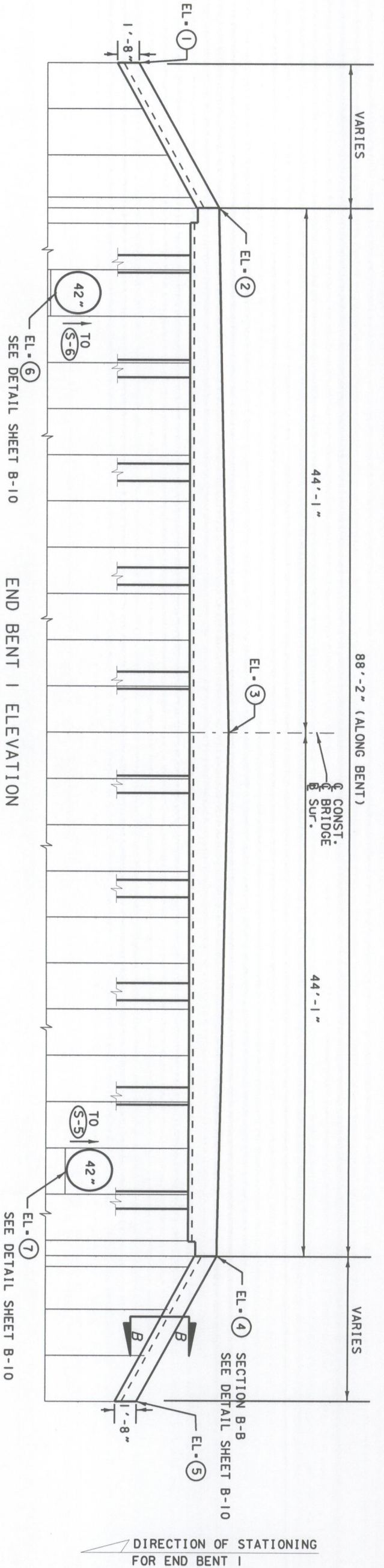
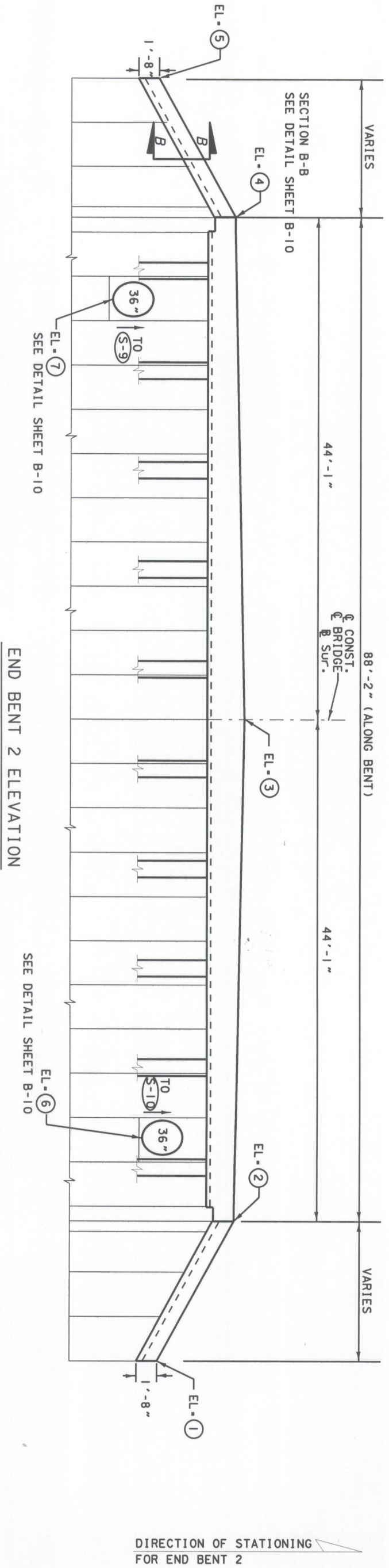


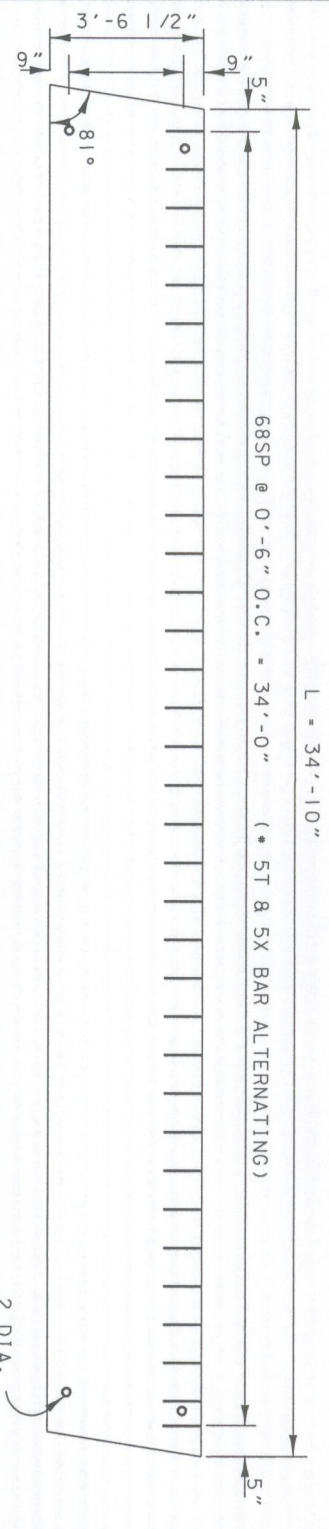
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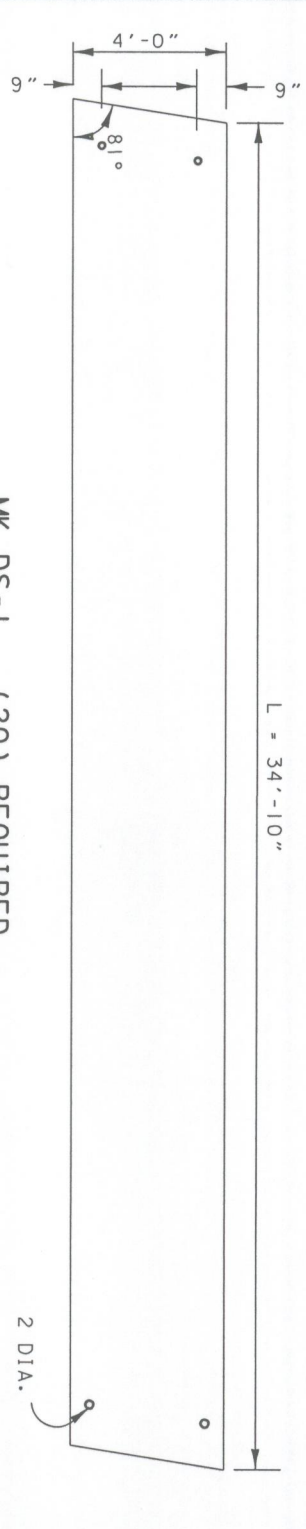


DESIGNED BY	DWG	DATE	5/98	REVISION DESCRIPTION & DATE	BY NO.	PUBLIC WORKS DEPT	<p><b>63rd AVE EAST</b> OVER PEARCE CANAL BRIDGE NO. 134042 MANATEE COUNTY, FLORIDA</p>	<p>www.waadtrim.com 8745 HENDERSON ROAD, SUITE 220 TAMPA, FLORIDA 33634 813.882.8386 FAX 813.894.5990 CERTIFICATE OF AUTHORIZATION NO. 3952</p>	ENGINEER OF RECORD	Proj. No.	3196
CHECKED BY	KLM	DATE	5/98			ENGINEER OF RECORD			Dwg. Date		
DRAWN BY	RLS	DATE	5/98								
CHECKED BY	KLM	DATE	5/98								
SUPERVISED BY	JEFFREY D. TRIM, P.E. #42106										

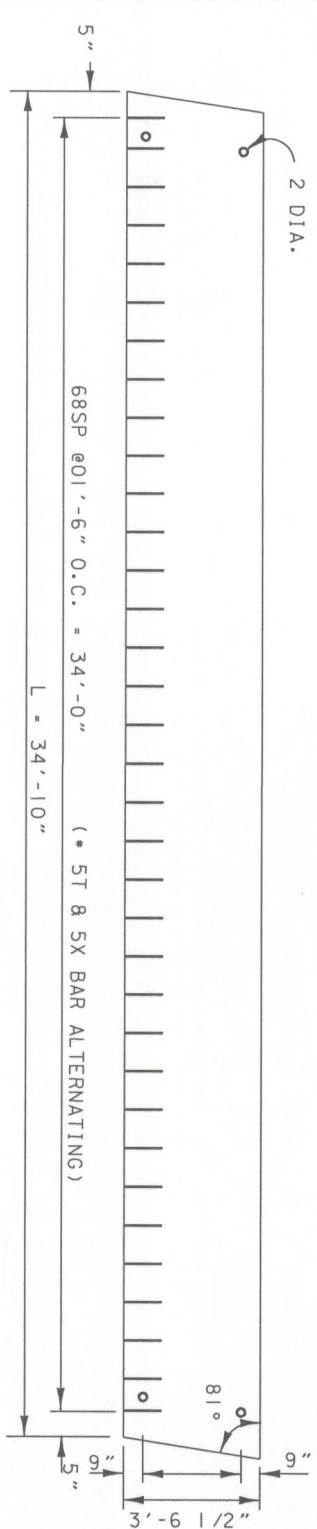
END BENT DETAILS



MK DS-1A (1) REQUIRED



MK DS-1 (20) REQUIRED



MK DS-1B (1) REQUIRED

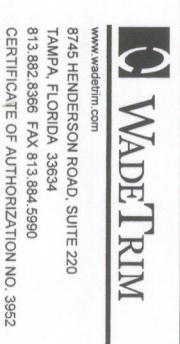
DECK SLAB NOTES

1. DECK SLAB UNITS SHALL BE DESIGNED BY THE CONTRACTOR FOR HL-93 LIVELoad, FUTURE WEARING SURFACE (15 LB/SF) AND ALL DEAD LOADS AS SHOWN IN THE PLANS. PERFORM DESIGN AND LOAD RATING ACCORDING TO FDOT STRUCTURES MANUAL DATED JANUARY 2007.
2. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF THE DECK SLAB UNITS FOR THE ENGINEERS APPROVAL.
3. 5T AND 5X BARS SHALL BE OF SUFFICIENT LENGTH TO ACCOMMODATE THE SIDEWALK AND EMBED 6" MIN. INTO SLAB UNITS.
4. THE COST OF (88) BEARING PADS, Poured NEOPRENE RUBBER AND 180 LF OF EXPANSION JOINT SEALANT SHALL BE INCLUDED IN THE UNIT PRICE FOR PRESTRESSED SLAB UNITS.
5. THE BEARING PADS SHALL HAVE A HARDNESS OF 70 DUROMETER. THE MINIMUM TRANSVERSE POST TENSIONING FORCE SHALL BE 82.5 KIPS PER LOCATION.

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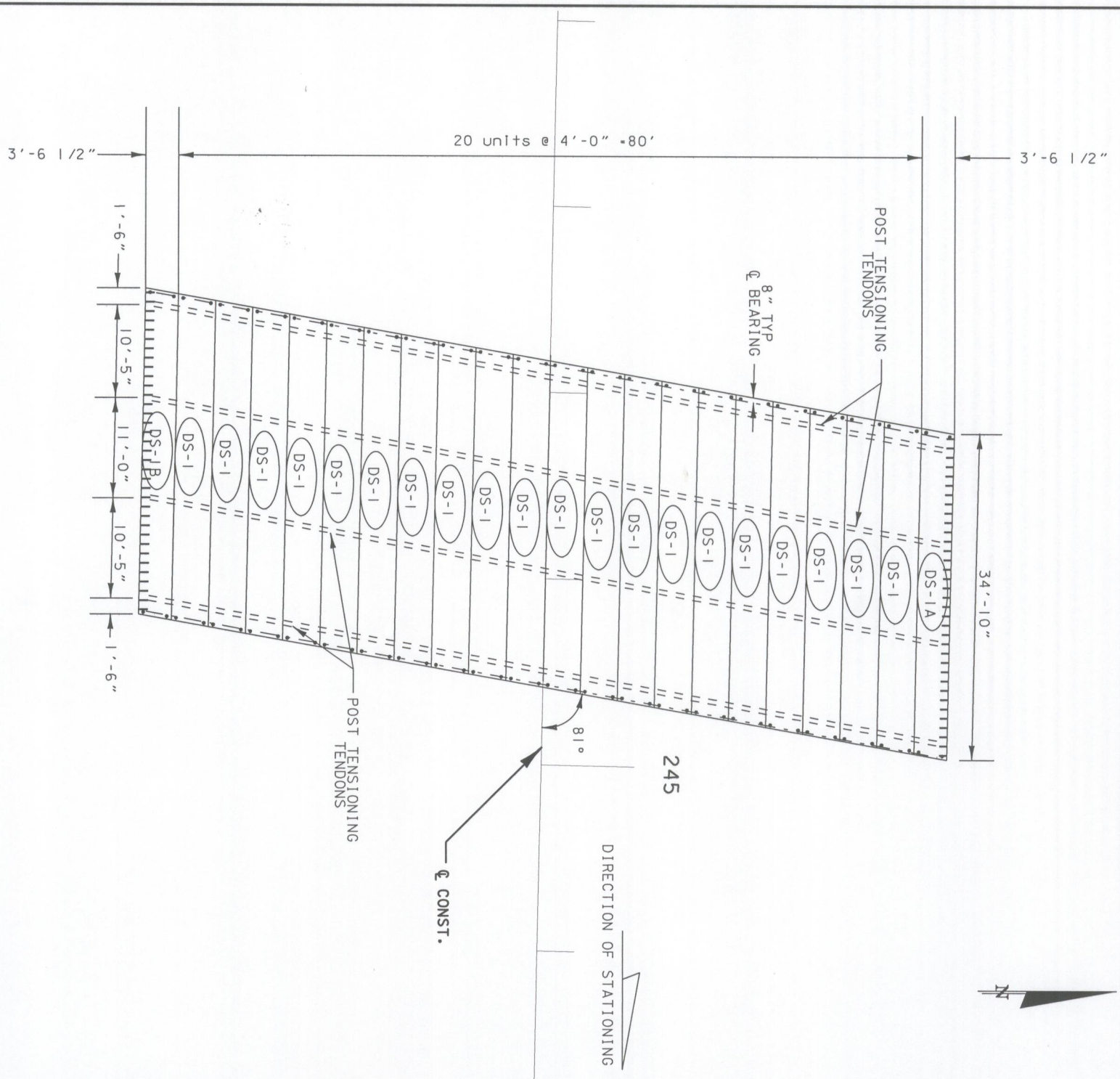
**63rd AVE EAST**  
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 BRIDGE NO. 134042  
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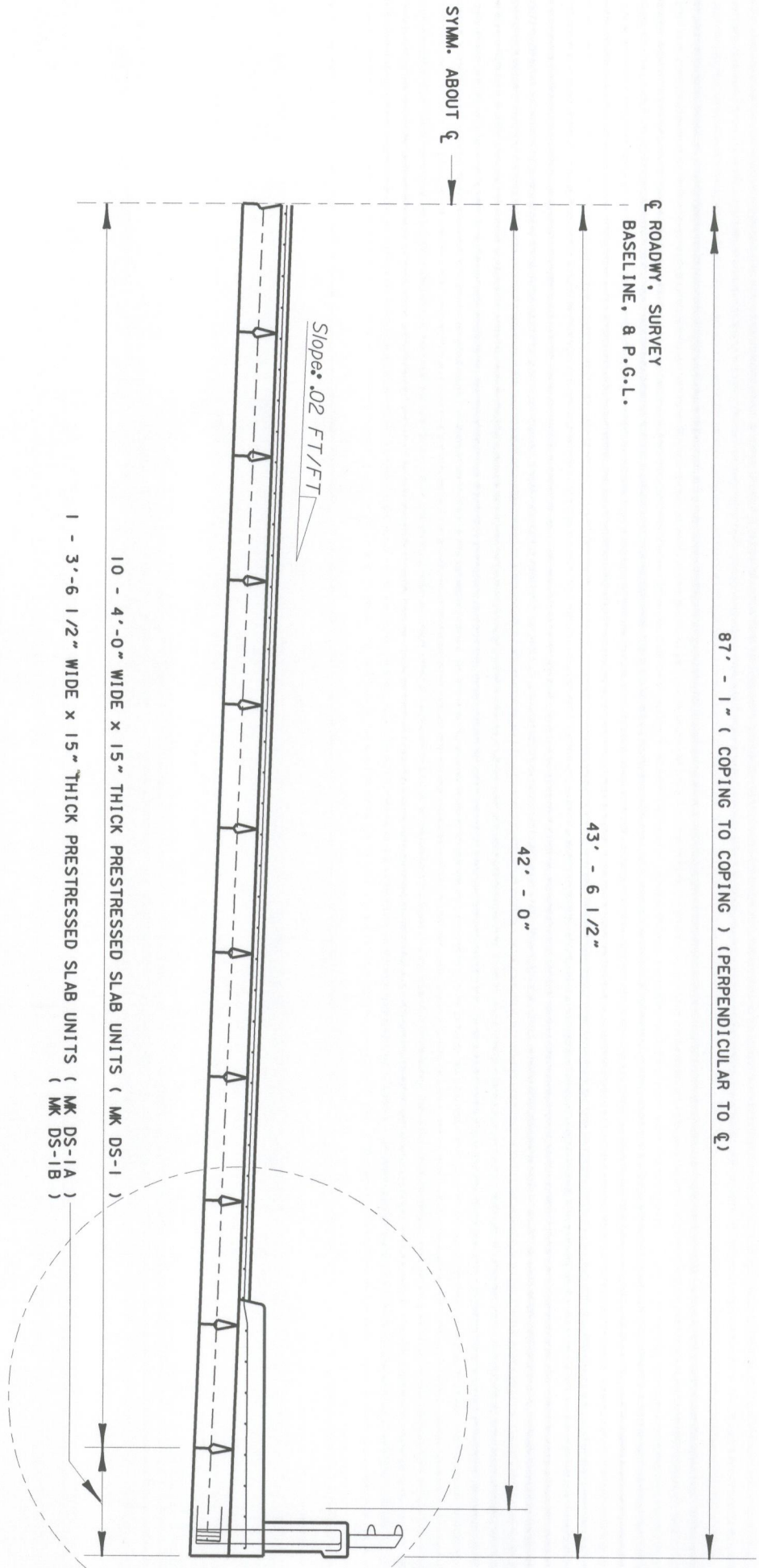


ENGINEER OF RECORD  
 Jeffrey D. Trim, PE No. 42106

Proj. No. 3196  
 Dwg. Date

FRAMING PLAN



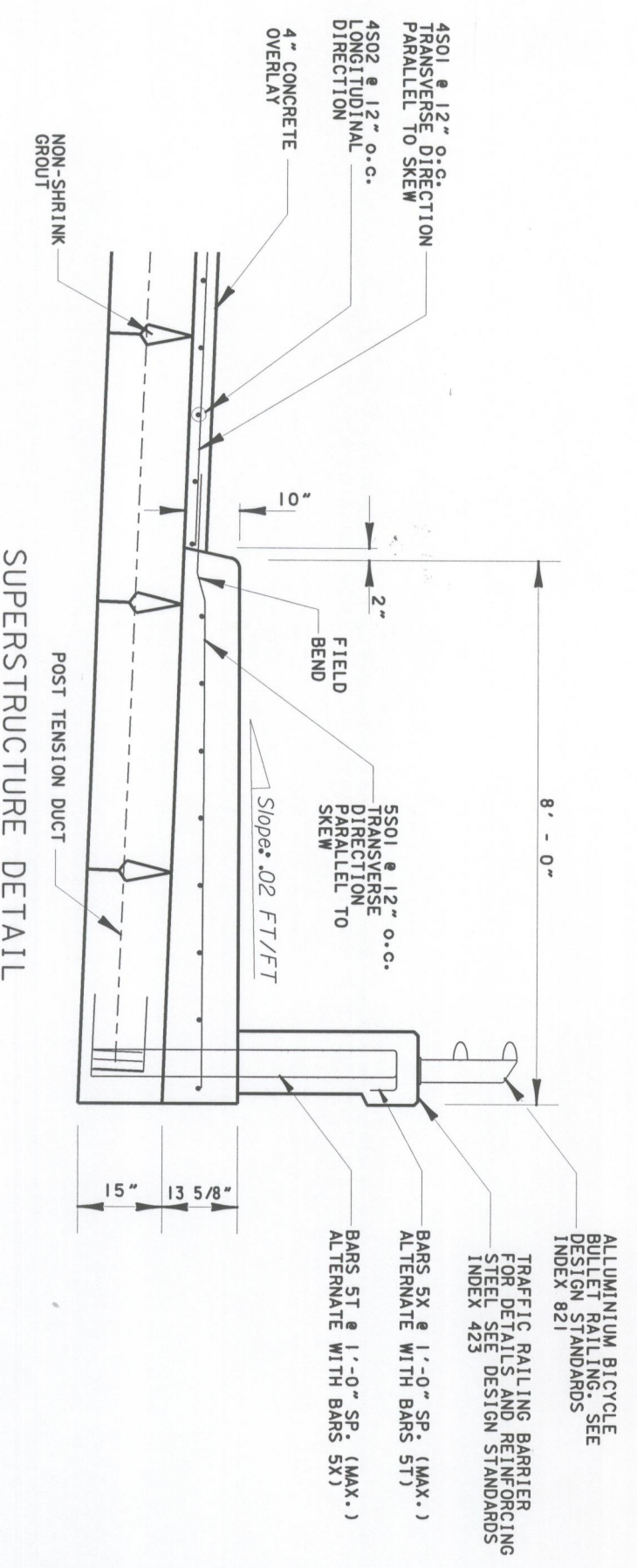


HALF SECTION OF SUPERSTRUCTURE

**SUPER STRUCTURE NOTES:**

CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR THE PRESTRESSED SLAB UNITS AND POST TENSION SYSTEM TO THE ENGINEER OF RECORD FOR HIS APPROVAL.  
 A 4" CONCRETE OVERLAY SHALL BE PLACED ON TOP OF THE PRESTRESSED SLAB UNITS.  
 10 CY OF CONCRETE HAVE BEEN INCLUDED IN PAY ITEM 400-4-4 CONCRETE CLASS IV (SUPERSTRUCTURE) FOR APPROACH SLAB SIDEWALK OVERLAY.

ESTIMATED QUANTITIES			
ITEM	UNIT	QUANTITY	
CLASS IV CONCRETE (SUPERSTRUCTURE)	CY	61	
REINFORCING STEEL (SUPERSTRUCTURE)	LB	3,957	



SUPERSTRUCTURE DETAIL

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CHECKED BY	KLM	DATE	5/98				
SUPERVISED BY	JEFFREY D. TRIM, P.E. #42106						

**63rd AVE EAST**  
 OVER PEARCE CANAL  
 BRIDGE NO. 134042  
 MANATEE COUNTY, FLORIDA

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ENGINEER OF RECORD	Proj. No.	3196
Jeffrey D Trim, PE No. 42106	Dwg. Date	
<b>SUPERSTRUCTURE SECTION</b>		

SUBSTRUCTURE

END BENT 1

MARK	DESCR	LENGTH		NO	TYP	STY	B		C		D		E		F		H		J		K		N	O
		FT	IN				FT	IN	FT	IN	FR	FR	FT	IN	FR	FR	FT	IN	FR	FR	FT	IN		
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4	4E02	6	4	11	11		2	6	1	11	1	11												
4	4E03	1	11	22	1		1	11																
4	4E04	10	0	88	4	4	2	4	2	4	2	4	2	4	87	7							3	
4	4E05	94	0	4	2		2	2																
6	6E01	2	0	22	1		2	0																
7	7E01	19	0	14	1		19	0																
8	8E01	94	0	8	2		2	2	87	7	1	0											3	
8	8E02	9	2	20	11		7	2	1	0	1	0												
8	8E03	30	0	25	11		28	0	1	0	1	0												
8	8E04	2	0	44	1		2	0																

END BENT 2

MARK	DESCR	LENGTH		NO	TYP	STY	B		C		D		E		F		H		J		K		N	O
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8	8E02	9	2	20	11		7	2	1	0	1	0												
8	8E03	30	0	25	11		28	0	1	0	1	0												
8	8E04	2	0	44	1		2	0																

SUPERSTRUCTURE

DECK TOPPING

MARK	DESCR	LENGTH		NO	TYP	STY	B		C		D		E		F		H		J		K		N	O
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4	4S02	34	6	88	1		34	6															2	
4	4S01	9	6	35	1		9	6																

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	REINFORCING BAR LIST	