

MANATEE COUNTY  
PUBLIC WORKS  
DEPARTMENT

44TH AVENUE EAST IMPROVEMENTS  
FROM US 41 TO 19TH STREET COURT EAST  
QUANTITY SHEET

LINE NO.	ITEM NO.	DESCRIPTION	EST. QTY	U/M
1.	101-1	Mobilization	1.00	LS
2.	102-1	Maintenance of Traffic	1.00	LS
3.	104-10-3	Staked Silt Fence (Type III)	21,111.00	LF
4.	104-11	Floating Turbidity Barrier	126.00	LF
5.	104-15	Soil Tracking Prevention Device	2.00	EA
5A	104-MC	Dewatering and Water Pollution Control for Pond "A"	1.00	LS
6.	104-18	Inlet Protection System	123.00	EA
7.	110-1-1	Clearing & Grubbing	38.48	AC
8.	110-4	Removal of Exist. Conc. Pmnt.	335.00	SY
9.	110-7-1	Mailbox (Furnish & Install)	14.00	EA
10.	120-1	Regular Excavation	130,103.00	CY
11.	120-4	Excavation, Subsoil (Roadway)	5,027.00	CY
12.	120-6	Embankment (Regular)	14,702.00	CY
13.	145-1	Geosynthetic Reinforced Soil Slope	3,184.00	SF
14.	160-4	6" Stabilized Sub-base	2,129.00	SY
15.	160-4	12" Stabilized Sub-base	50,038.00	SY
16.	285-701	Optional Base Group 1:(Paved Shoulder)	243.00	SY
17.	285-704	Optional Base Group 4: 8th St Ct E	2,023.00	SY
18.	285-709	Optional Base Group 9:	47,448.00	SY
18A	285-MC	6" Crushed Concrete Base for Rail Road Crossing	302.00	SY
19.	286-1	Turnout Construction (15th St E Driveways)	76.00	SY
20.	327-70-4	Milling Exist. Asph. Pavement (3" Avg. Depth), 15th St E	2,744.00	SY
21.	327-70-6	Milling Exist. Asph. Pavement (1" Avg. Depth), 9th St E	1,762.00	SY
22.	334-1-13	2" SP12.5 Structural Course, Traffic C (15th St E resurfacing)	420.00	TN
22A	334-1-13	3" SP12.5 Structural Course, Traffic C (15th St E widening)	245.00	TN
22B	334-MC	8" Asphalt Underlayment for Rail Road Crossing	110.00	TN
23.	334-1-MC1	2" Type S-1 Asphalt Concrete (Incl Tack Coat)	4,631.00	TN
24.	334-1-MC1	1" Type S-1 Asphalt Concrete (Incl Tack Coat)	96.00	TN
25.	334-1-MC2	1" Type S-III Asphalt Concrete	2,497.00	TN
26.	337-7-42	1-1/2" asphaltic Friction Course (FC-9.5) (Paved Shoulder)	20.00	TN
27.	337-7-42	1" Asphaltic Friction Course (FC 9.5) (Traffic C)	296.00	TN
28.	400-1-2	Class I Concrete (Endwalls and Pipe Support), Including Reinforcing Steel	6.26	CY
29.	400-1-2	Class I Concrete (Misc. Swale Crossing, Concrete Spillway), Including Reinforcing Steel	103.00	CY
30.	400-3-1	Class III Concrete (Concrete Encasement), Including Reinforcing Steel and Bearing Pad	152.12	CY
31.	410-70-MC	Triple Barrel Box Culvert ,3(8' x 4')	192.00	LF
32.	425-1-351	Inlets (Curb) (Type P-5) (<10')	4.00	EA
33.	425-1-352	Inlets (Curb) (Type P-5) (>10')	6.00	EA
34.	425-1-361	Inlets (Curb) (Type P-6) (<10')	5.00	EA
35.	425-1-451	Inlets (Curb) (Type J-5) (<10')	1.00	EA
36.	425-1-MC1	Curb Inlet/ Conflict Box	33.00	EA
37.	425-1-MC2	Grate Inlets	27.00	EA
38.	425-1-MC3	Drop Inlet	12.00	EA
39.	425-1-MC4	Outfall Control Structure, Including Reinforcing Steel and Skimmer	3.00	EA
40.	425-1-MC5	Junction Box/Conflict Box	12.00	EA
41.	425-1-MC6	Adjust/Reconstruct Existing Inlet	3.00	EA
42.	425-1-529	Inlet (Dt Bot) (Type C Modified) (<10')	5.00	EA
43.	425-1-583	Inlet (Dt Bot) (Type H Modified) (<10')	1.00	EA
44.	425-1-701	Gutter Inlet (modified Type S) (<10')	1.00	EA
45.	425-1-711	Gutter Inlet (Type V) (<10')	2.00	EA
46.	425-2-41	Manholes (P-7) (<10')	1.00	EA
47.	425-2-61	Manholes (P-8) (<10')	7.00	EA
48.	425-2-62	Manholes (P-8) (>10')	1.00	EA
49.	425-2-71	Manholes (J-7) (<10')	3.00	EA
50.	425-2-91	Manholes (J-8) (<10')	3.00	EA
51.	430-175-115	Pipe Storm Sewer Culv (RCP)(15")	2,421.00	LF
52.	430-175-115	Pipe Storm Sewer Culv (A2000,PVC)(15")	228.00	LF
53.	430-175-118	Pipe Storm Sewer Culv (RCP)(18")	2,263.00	LF
54.	430-175-118	Pipe Storm Sewer Culv (A2000)(18")	972.00	LF
55.	430-175-121	Pipe Storm Sewer Culv (A2000)(21")	632.00	LF
56.	430-175-124	Pipe Storm Sewer Culv (RCP)(24")	4,307.00	LF
57.	430-175-124	Pipe Storm Sewer Culv (A2000)(24")	398.00	LF
58.	430-175-130	Pipe Storm Sewer Culv (RCP)(30")	741.00	LF
59.	430-175-130	Pipe Storm Sewer Culv (A2000)(30")	944.00	LF
60.	430-175-136	Pipe Storm Sewer Culv (RCP)(36")	63.00	LF
61.	430-175-136	Pipe Storm Sewer Culv (A2000)(36")	833.00	LF
62.	430-175-142	Pipe Storm Sewer Culv (RCP)(42")	1,040.00	LF
63.	430-175-148	Pipe Storm Sewer Culv (RCP)(48")	1,096.00	LF
64.	430-175-215	Pipe Cross Drain Culv (ERCP) (12"x18")	2,014.00	LF
65.	430-175-218	Pipe Storm Sewer Culv (ERCP) (14"x23")	398.00	LF
66.	430-175-224	Pipe Cross Drain Culv (ERCP) (19"x30")	612.00	LF
67.	430-175-230	Pipe Storm Sewer Culv (ERCP)(24"x38")	587.00	LF
68.	430-175-242	Pipe Storm Sewer Culv (ERCP)(34"x53")	96.00	LF
69.	430-175-250	Pipe Storm Sewer Culv (ERCP) (38"x60")	254.00	LF
70.	430-982-125	18" MES (Cross Drain)	1.00	EA
71.	430-982-633	24x38" MES (Cross Drain)	6.00	EA
72.	430-984-125	MES (Round)(18"SD)	2.00	EA
73.	430-984-138	MES (Round) (36" SD)	1.00	EA
74.	430-984-625	MES (Conc Pipe Ellip) (12"x18") (SD)	2.00	EA
75.	430-984-625	MES (Conc Pipe Ellip) (14"x23") (SD)	5.00	EA
76.	440-1-10	6" Underdrain and Clean out	2,615.00	LF
77.	455-133-2	Steel Sheet Piling (Temporary)	4,000.00	SF
78.	515-1-2	Pipe Handrail (Aluminum)	99.00	LF
79.	520-1-MC1	Type AB Curb & Gutter	1,736.00	LF
80.	520-1-MC2	Miami Curb&Gutter	1,986.00	LF
81.	520-1-10	Type F Curb & Gutter	13,463.00	LF
82.	520-3-	Valley Crossing Gutter, Concrete	482.00	LF
83.	520-70	Concrete Traffic Separator (Special)	110.00	SY
84.	520-70	Concrete Traffic Separator (Type IV, 4' wide)	145.00	SY
85.	522-1	4" Concrete Sidewalk	5,296.00	SY
86.	522-2	6" Concrete Sidewalk, Reinforced Driveway	2,131.00	SY
87.	522-2	6" Concrete Pedestrian Landing Pad	98.00	SY
88.	522-4	8" Concrete Bus Shelter Pad, Including Reinforcing Steel	51.00	SY
89.	530-3-4	Rip-Rap (Rubble) (Ditch Lining)	90.60	TN
90.	550-10-222	Fencing, Type B, 6' Height w/Vinyl Coating, Green	2,710.00	LF
91.	550-10-228	Fence Removal and Reinstallation	2,116.00	LF
92.	550-MC	Auto Gate Removal and Reinstallation	1.00	EA
93.	550-60-233	Fence Gate, Type B, Sliding, 15' opening, w/Vinyl Coating, Green	1.00	EA
94.	556-1-5	Jack and Bore (32" Steel Casing)	115.00	LF
95.	556-1-7	Jack & Bore (46" Steel Casing)	120.00	LF
96.	570-1-2	Sodding (Performance Turf, Bahia) (Includes Mowing)	73,222.00	SY
97.	570-MC	Wetland creation, mitigation and enhancement at NE corner of 44th at 15th	1.00	LS

QUANTITIES REVISED AND ADDED 5/08/13

REVISION DATE  
BY DATE

SURVEYED  
DESIGNED  
DRAWN MRJ 2/10  
CHECKED

SCALE: N.T.S.

SEAL

APPROVED BY:

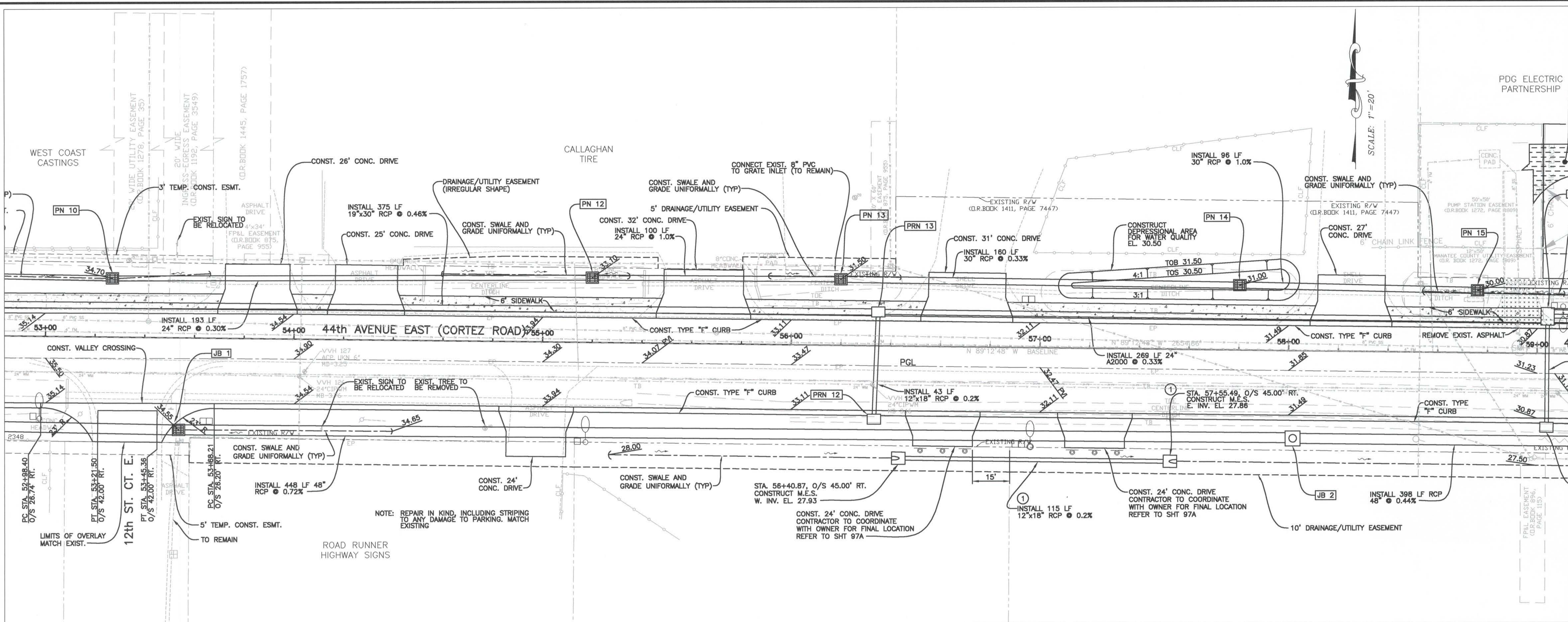
CHRISTOPHER LEE MOWBRAY  
FLORIDA P.E.# 46777  
MANATEE COUNTY GOVERNMENT  
PUBLIC WORKS DEPARTMENT  
1022 26TH AVENUE EAST  
BRADENTON, FL. 34206

DATE 5/8/13

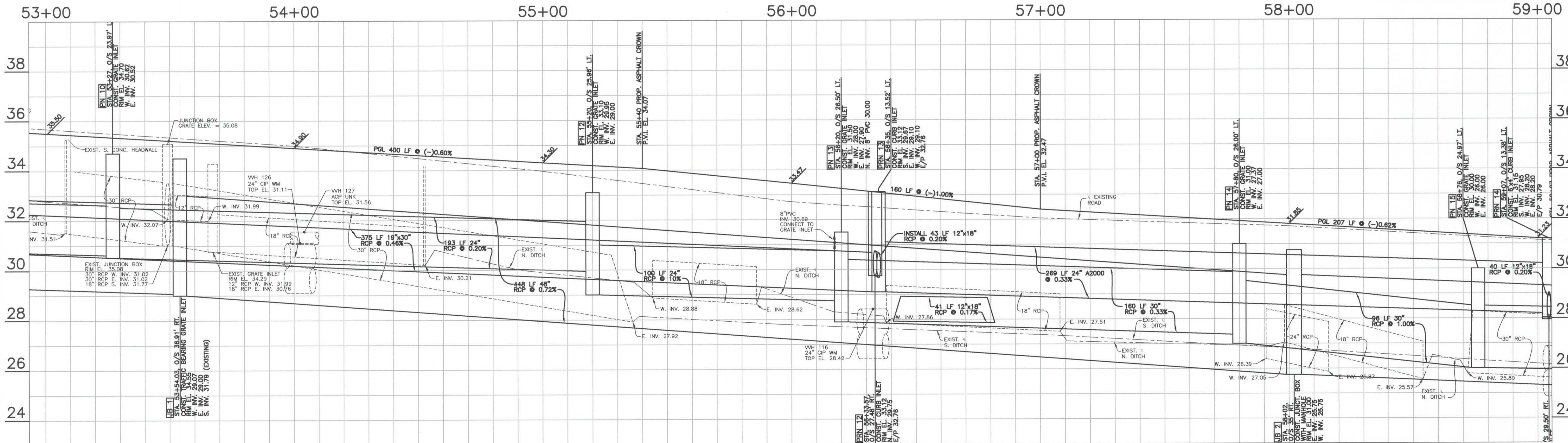
SHEET 15 OF 115



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**CALL THE SUNSHINE STATE ONE CALL**  
 1-800-432-4770  
 48 HOURS BEFORE DIGGING FOR THE LOCATION OF UNDERGROUND UTILITIES

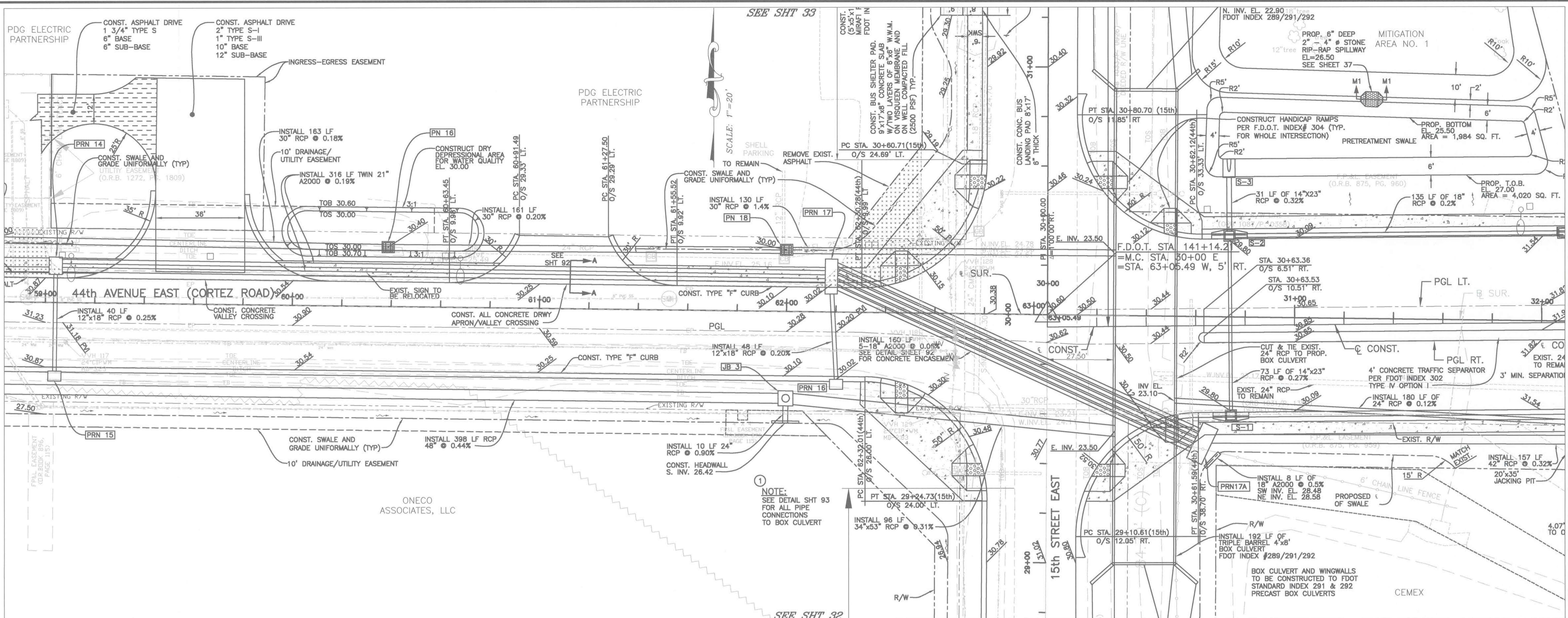


PDG ELECTRIC PARTNERSHIP  
**MANATEE COUNTY PUBLIC WORKS DEPARTMENT**

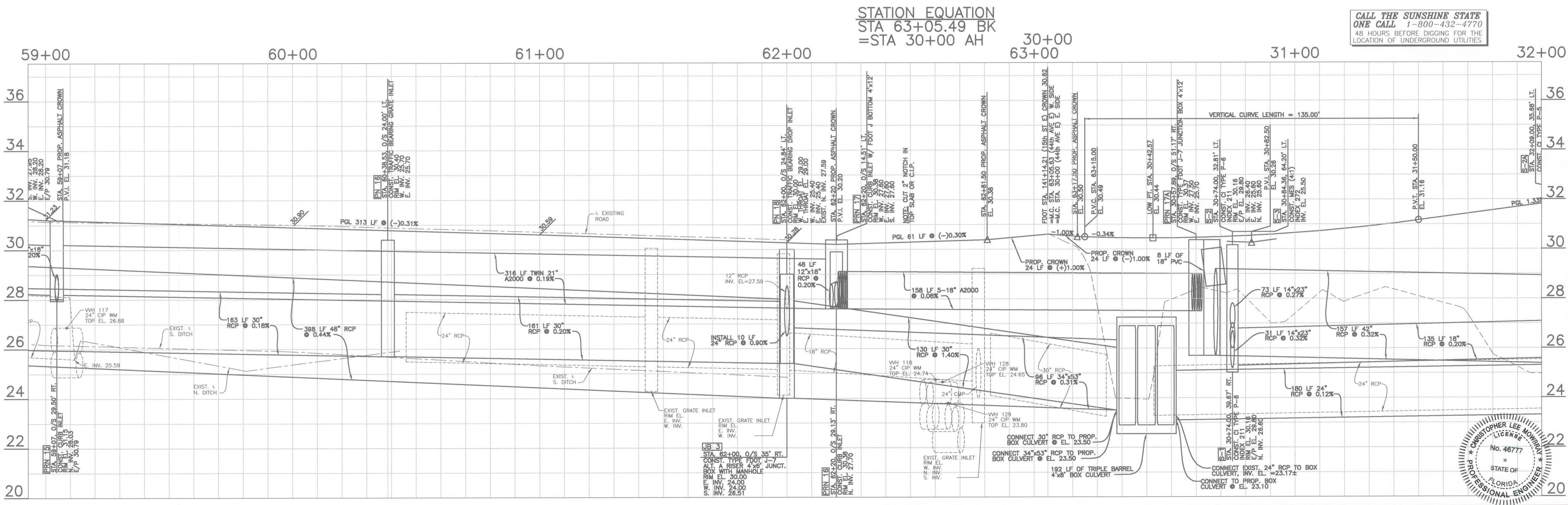
**44TH AVENUE EAST IMPROVEMENTS**  
**FROM US 41 TO 19TH STREET COURT EAST**  
**PLAN & PROFILE**  
**STA. 53+00 TO STA. 59+00**

① STA. AND LENGTH REVISED	5/08/13
REVISION	DATE
	BY DATE
SURVEYED	MSL 5/20/08
DESIGNED	CM/SF 7/08
DRAWN	DF/MRJ 7/08
CHECKED	CZ
SCALE:	1"=20'
APPROVED BY: <i>[Signature]</i> CHRISTOPHER LEE MOORE FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 46777 MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT 1822 26TH AVENUE EAST BRADENTON, FL 34208	
DATE	5/8/13
SHEET	24 OF 115

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**MANATEE COUNTY  
PUBLIC WORKS  
DEPARTMENT**  
  
**44TH AVENUE EAST IMPROVEMENTS  
FROM US 41 TO 19TH STREET EAST  
PLAN & PROFILE  
STA. 59+00 TO STA. 32+00**



① NOTE ADDED FOR CLARITY 5/08/13

REVISION	BY	DATE
SURVEYED	MSL	5/20/08
DESIGNED	CM/SF	7/08
DRAWN	DF/MRJ	7/08
CHECKED	CZ	

SCALE: 1"=20'

SEAL

APPROVED BY:  
  
**CHRISTOPHER LEE MOWBRAY**  
 FLORIDA P.E. #46777  
 MANATEE COUNTY GOVERNMENT  
 PUBLIC WORKS DEPARTMENT  
 1022 26TH AVENUE EAST  
 BRADENTON, FL. 34208

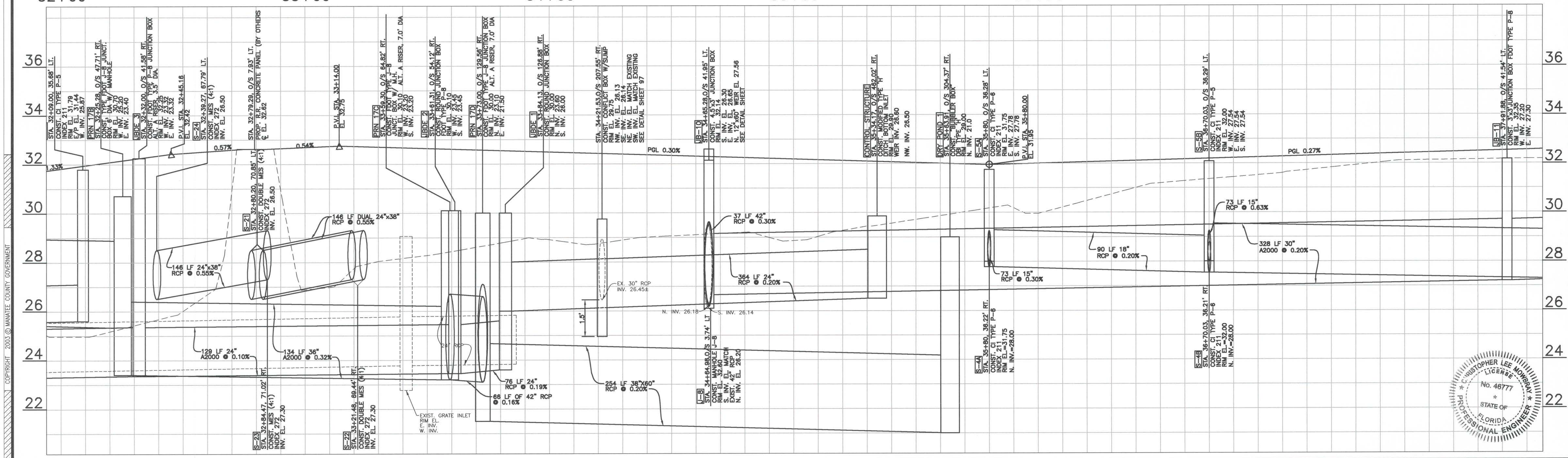
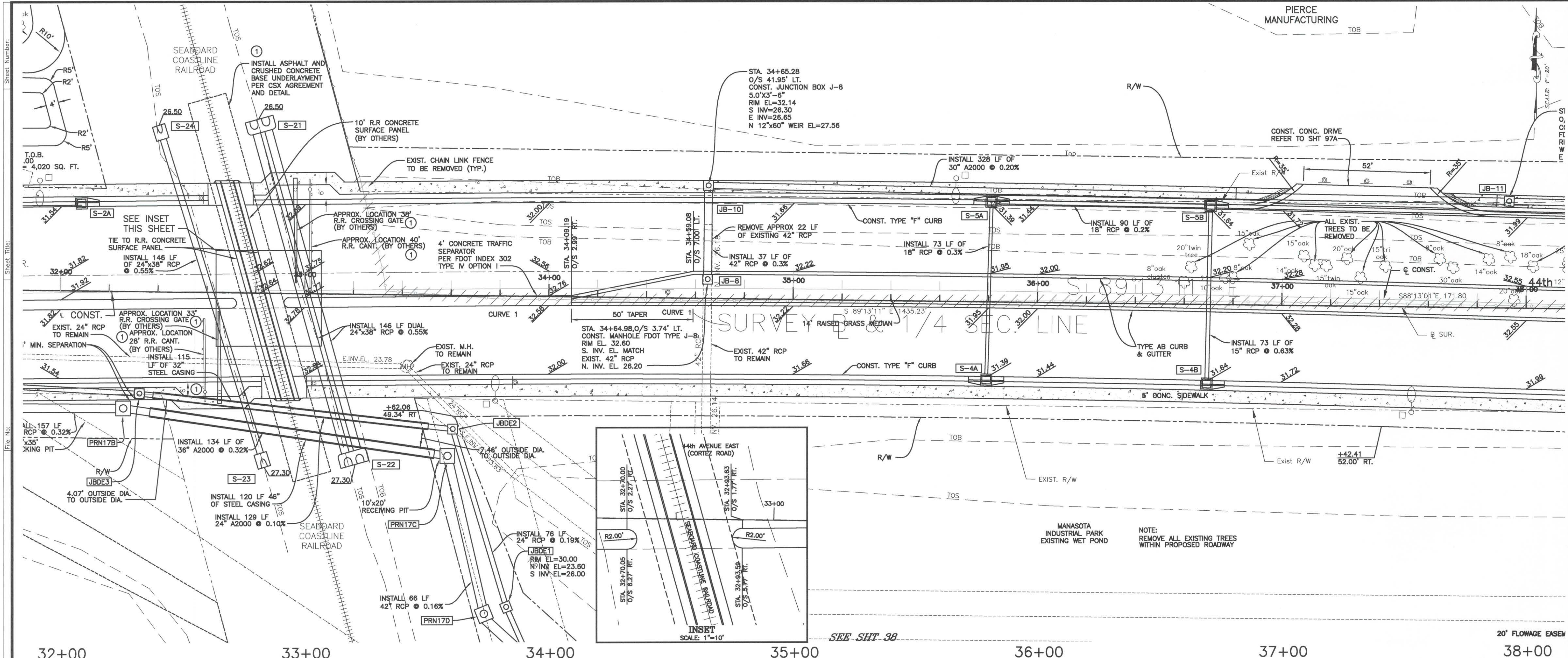
DATE: 5/8/13

SHEET 25 OF 115



MANATEE COUNTY  
PUBLIC WORKS  
DEPARTMENT

**44TH AVENUE EAST IMPROVEMENTS  
FROM US 41 TO 19TH STREET COURT EAST  
PLAN & PROFILE  
STA. 32+00 TO STA. 38+00**



REVISION	BY	DATE
DESIGNED	CM/SF	7/08
DRAWN	DF/MRJ	7/08
CHECKED	CZ	

SCALE: 1"=20'

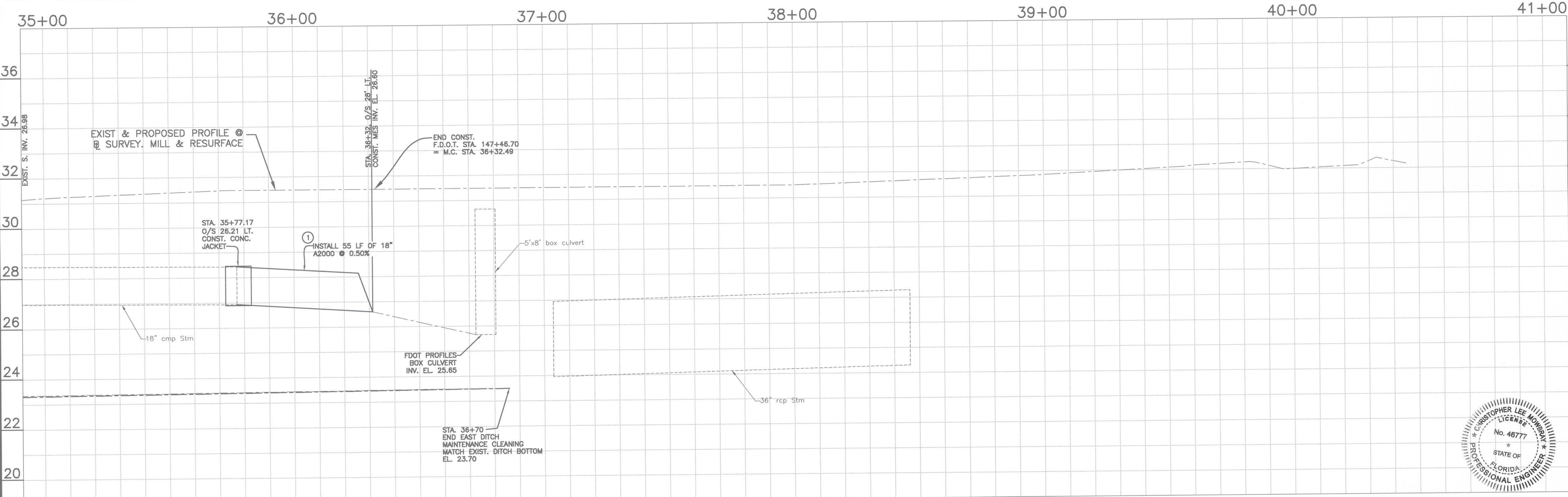
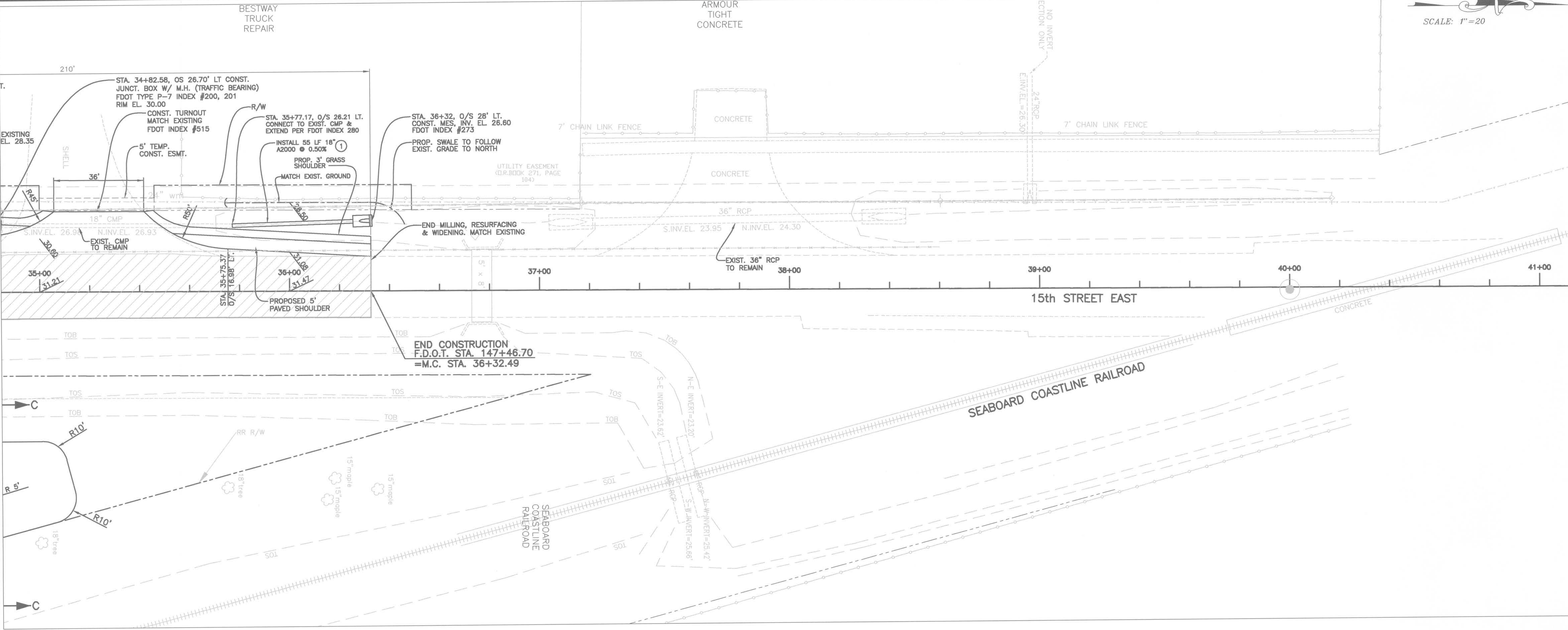
APPROVED BY:  
*Christopher Lee Mowbray*  
CHRISTOPHER LEE MOWBRAY  
FLORIDA P.E. #46777  
MANATEE COUNTY GOVERNMENT  
PUBLIC WORKS DEPARTMENT  
1822 26TH AVENUE EAST  
BRADENTON, FL. 34208

DATE: 5/8/13

SHEET 26 OF 115

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SCALE: 1"=20'



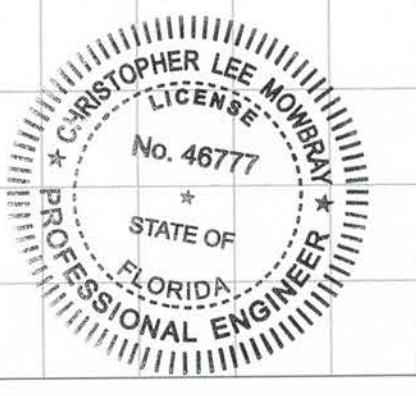
**MANATEE COUNTY  
PUBLIC WORKS  
DEPARTMENT**

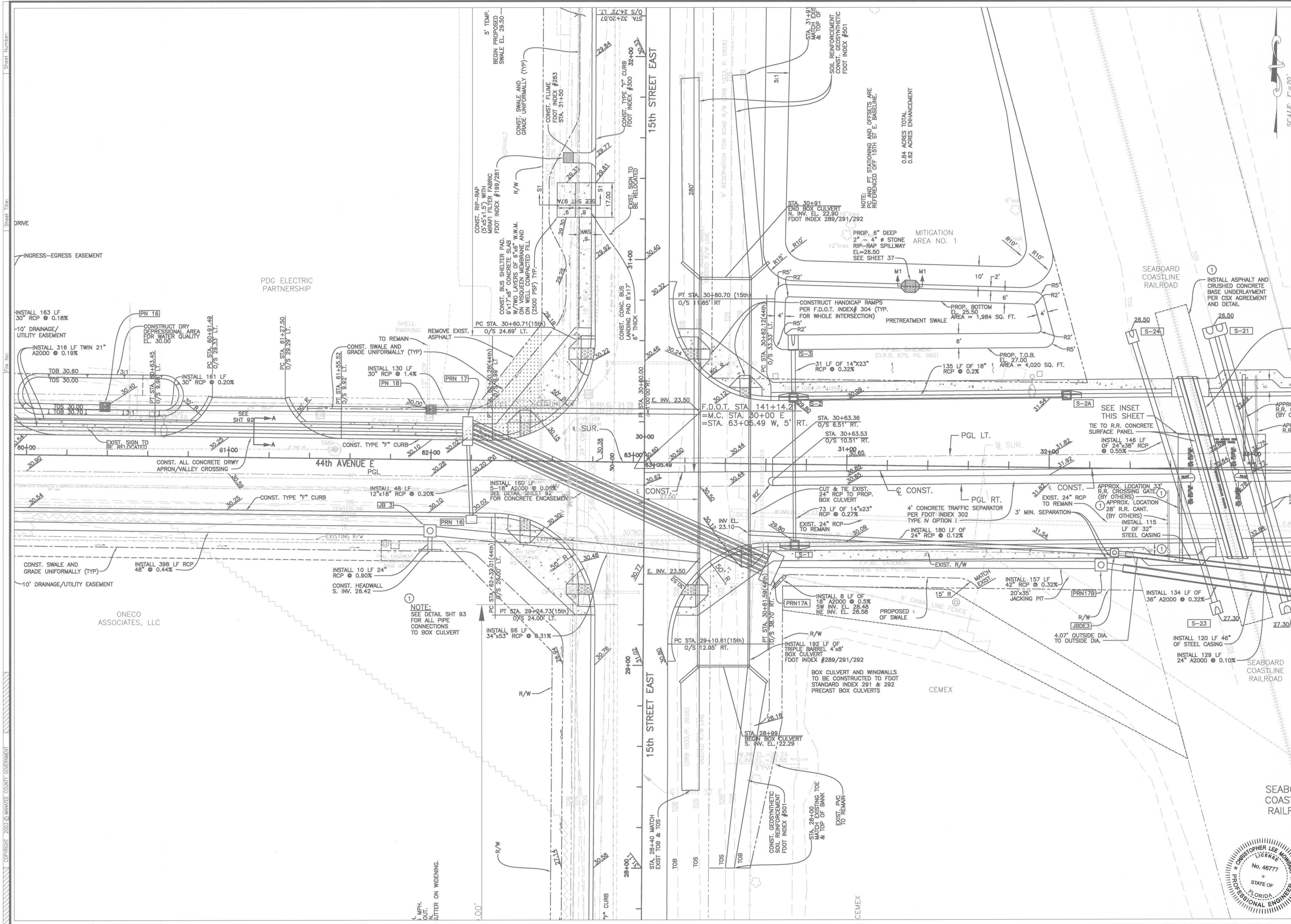
**44TH AVENUE EAST IMPROVEMENTS  
15th STREET EAST  
PLAN & PROFILE  
STA. 35+00 TO STA. 41+00**

① PIPE MATERIAL REVISED	5/08/13
REVISION	DATE
SURVEYED	MSL 5/20/08
DESIGNED	CLM 3/09
DRAWN	DF/MRJ 3/09
CHECKED	CZ

SCALE: 1"=20'

SEAL  
 APPROVED BY:  
  
 CHRISTOPHER LEE MOWBRAY  
 FLORIDA P.E. # 46777  
 MANATEE COUNTY GOVERNMENT  
 PUBLIC WORKS DEPARTMENT  
 1022 26TH AVENUE EAST  
 BRADENTON, FL. 34208  
 DATE: 5/13/13





MANATEE COUNTY  
PUBLIC WORKS  
DEPARTMENT

**44TH AVENUE EAST  
@ 15TH STREET EAST  
INTERSECTION**

SCALE: 1"=20'

REVISION	DATE
BY	DATE
SURVEYED	
DESIGNED	
DRAWN	
CHECKED	

SCALE: 1"=20'

SEAL

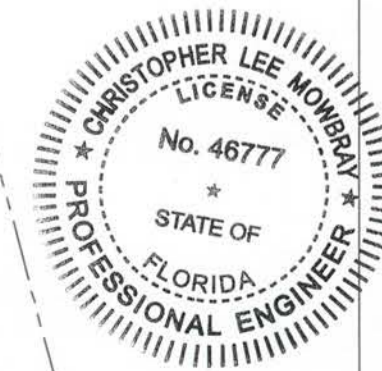
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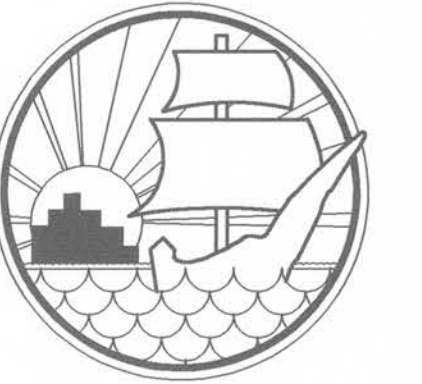
CHRISTOPHER LEE MOWBRAY  
FLORIDA P.E. # 46777  
MANATEE COUNTY GOVERNMENT  
PUBLIC WORKS DEPARTMENT  
1022 26TH AVENUE EAST  
BRADENTON, FL. 34208

DATE: 5/8/13

SHEET 41 OF 115

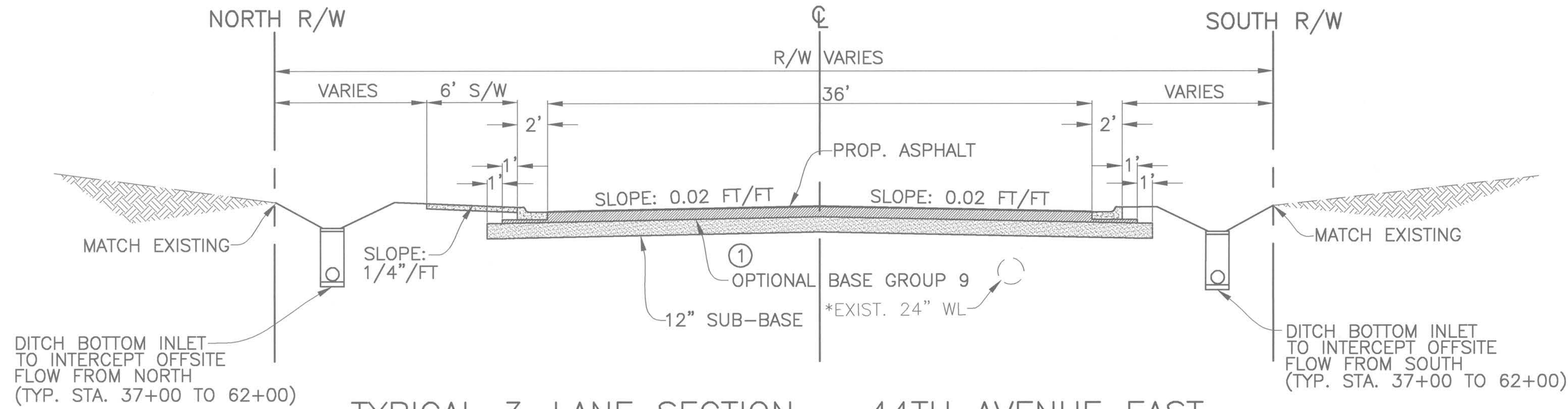
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 INGRESS-EGRESS EASEMENT: \_\_\_\_\_  
 PDG ELECTRIC PARTNERSHIP: \_\_\_\_\_  
 ONECO ASSOCIATES, LLC: \_\_\_\_\_  
 5 MPH. CUT. SLOTTED ON WIDENING.





MANATEE COUNTY  
PUBLIC WORKS  
DEPARTMENT

44TH AVENUE EAST IMPROVEMENTS  
US 41 TO 19TH STREET COURT EAST  
TYPICAL 3-LANE ROAD SECTION  
TYPICAL SECTION - BEALL'S ENTRANCE

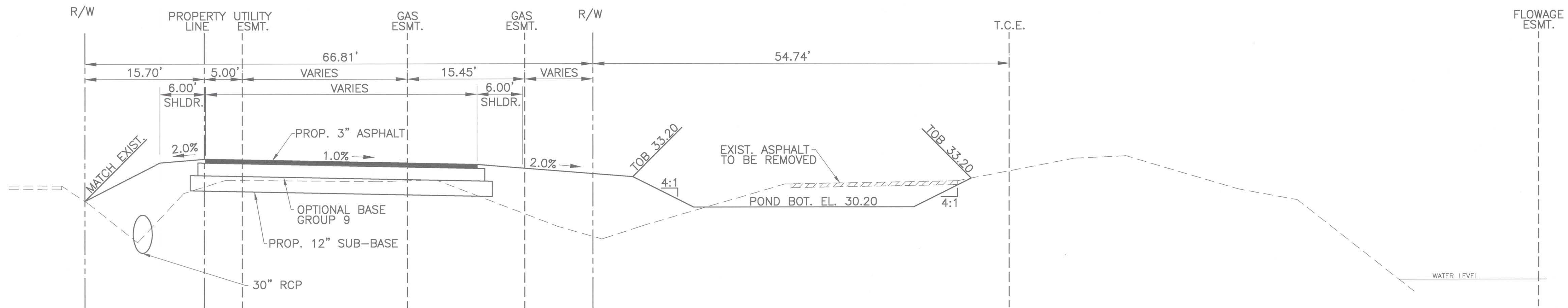


TYPICAL 3-LANE SECTION - 44TH AVENUE EAST

N.T.S.

GENERAL NOTES:

- 1" OF S-III ASPHALTIC CONCRETE.
- 2" OF S-I ASPHALTIC CONCRETE.
- OPTIONAL BASE GROUP 9
- 12" OF STABILIZED SUB BASE COMPACTED TO 98% OF MAX. DENSITY, LBR 60.
- 2' FLAT AREA BEHIND ALL SW OR CURB. 1' MINIMUM
- ALL DISTURBED AREAS TO BE SODDED.
- ALL DITCH SLOPES DESIGNED FOR 4:1, UNLESS OTHERWISE NOTED
- \* CONTRACTOR SHALL EXERCISE CAUTION & FIELD VERIFY LOCATION.



TYPICAL SECTION 'C-C' - 44TH AVE. E. BEALL'S ENTRANCE

N.T.S.


① REVISOR TO OPTIONAL BASE GROUP 9		5/06/13
REVISION	BY	DATE
SURVEYED	MSL	5/08
DESIGNED	CM/SF	10/09
DRAWN	DF/MRJ	10/09
CHECKED	CM/SF	11/09
SCALE: N.T.S.		

SEAL

APPROVED BY:

CHRISTOPHER LEE MOWBRAY  
FLORIDA P.E. # 46777  
MANATEE COUNTY GOVERNMENT  
PUBLIC WORKS DEPARTMENT  
1022 26TH AVENUE EAST  
BRADENTON, FL 34208

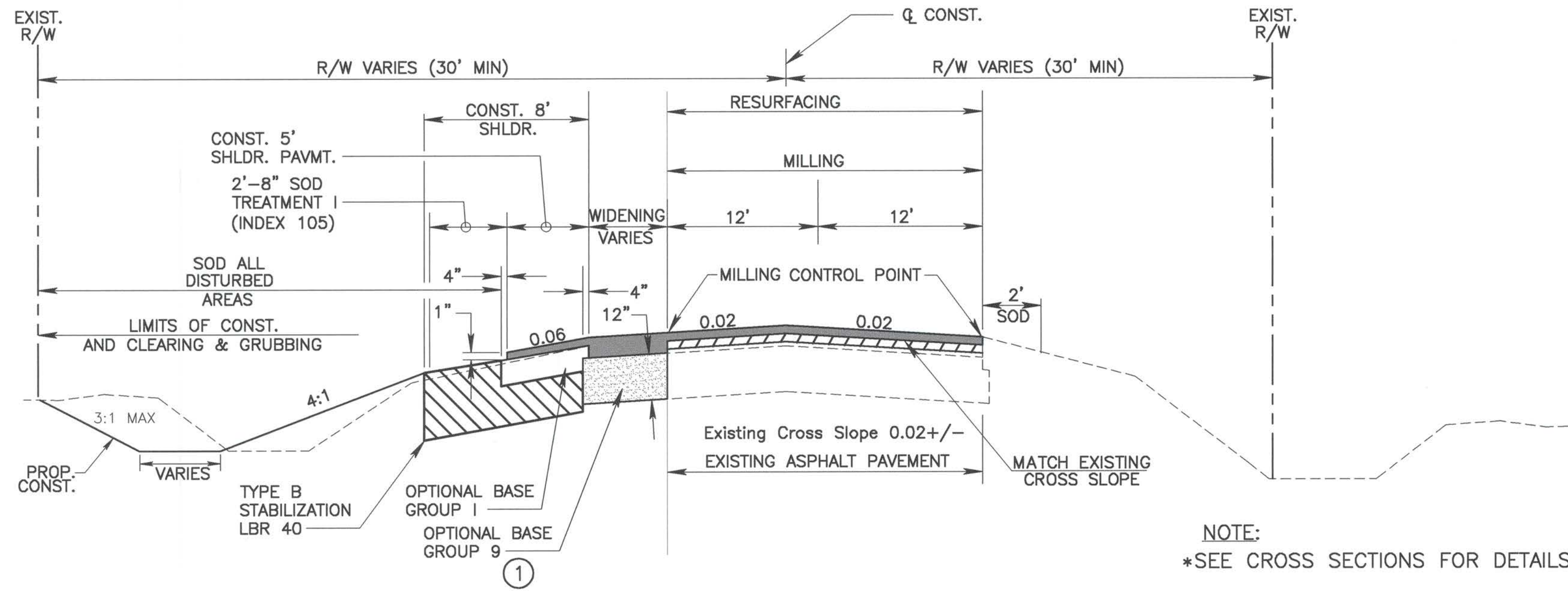


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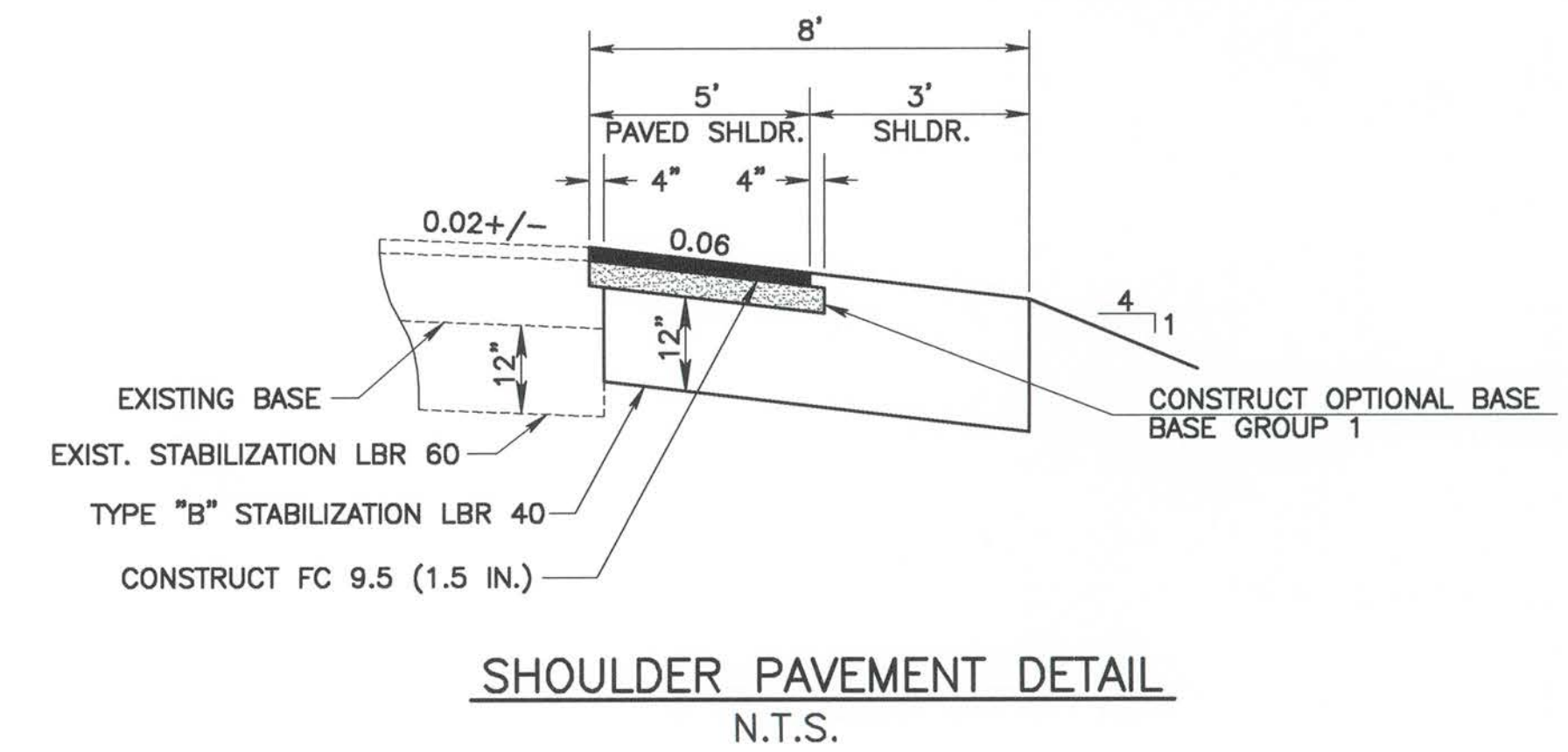


MANATEE COUNTY  
PUBLIC WORKS  
DEPARTMENT

44TH AVENUE EAST IMPROVEMENTS  
15TH STREET EAST  
IMPROVEMENTS  
TYPICAL SECTION

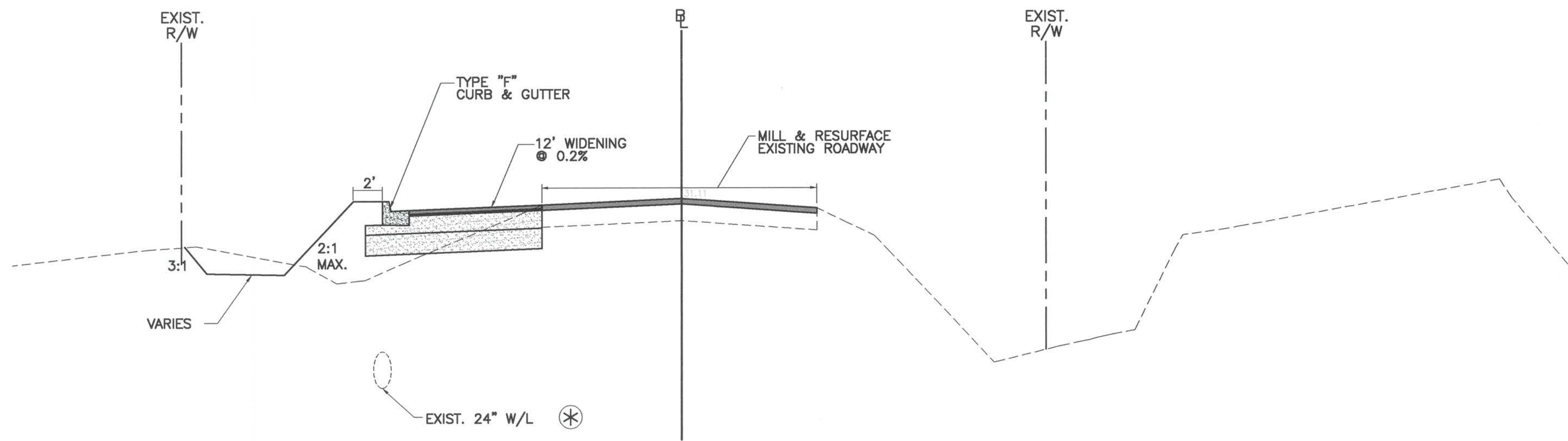


TYPICAL SECTION - 15TH STREET EAST  
STA. 23+20 TO 26+20 & STA. 34+22.58 TO END  
N.T.S.



SHOULDER PAVEMENT DETAIL  
N.T.S.

NOTE:  
\*SEE CROSS SECTIONS FOR DETAILS



TYPICAL SECTION - 15TH STREET EAST  
STA. 26+20 TO STA. 34+22.58  
N.T.S.

\*CONTRACTOR SHALL EXERCISE CAUTION  
AND FIELD VERIFY LOCATION.

NOTES:

EXISTING ROADWAY:

MILL EXISTING ASPHALT PAVEMENT (3" AVG. DEPTH)  
STRUCTURAL COURSE SP 12.5 (TRAFFIC C) (2")  
FRICTION COURSE FC 9.5 (TRAFFIC C) (1")

NEW SHOULDER PAVEMENT:

OPTIONAL BASE GROUP 1 WITH FRICTION COURSE  
FC 9.5 (TRAFFIC C) (1.5")  
STABILIZED SUB GRADE COMPACTED TO 98% OF MAX. DENSITY, LBR 60.

WIDENING:

- 1" OF FC 9.5 ASPHALTIC CONCRETE
- 3" OF SP 12.5 ASPHALTIC CONCRETE (MATCHING EXISTING ROADWAY)
- OPTION BASE GROUP 9;
- 10" OF SHELL BASE OR LIMEROCK BASE COMPACTED TO 98% OF MAX DENSITY, LBR 100 OR 5-1/2" OF ABC-III ASPHALTIC CONCRETE.
- 12" OF STABILIZED SUB GRADE COMPACTED TO 98% OF MAX. DENSITY, LBR 40.

TRAFFIC DATA:

CURRENT YEAR = 2006 AADT = 8400  
ESTIMATED OPENING YEAR = 2014 AADT = N/A  
ESTIMATED DESIGN YEAR = 2029 AADT = 21500  
K = 10.1% D = 51.5% T = 10.3% (24 HOUR)  
DESIGN HOUR T = 5.2 %  
DESIGN SPEED = 45  
POSTED SPEED = 45

ADDENDUM 1	5/08/13
REVISION	DATE
	BY DATE
SURVEYED	ML
DESIGNED	CM/SF
DRAWN	DF/MRJ
CHECKED	C.Z.

SCALE: N.T.S.

SEAL

APPROVED BY:

*Christopher Lee Mowbray*

CHRISTOPHER LEE MOWBRAY  
FLORIDA P.E. # 46777  
MANATEE COUNTY GOVERNMENT  
PUBLIC WORKS DEPARTMENT  
1022 26TH AVENUE EAST  
BRADENTON, FL 34208

DATE

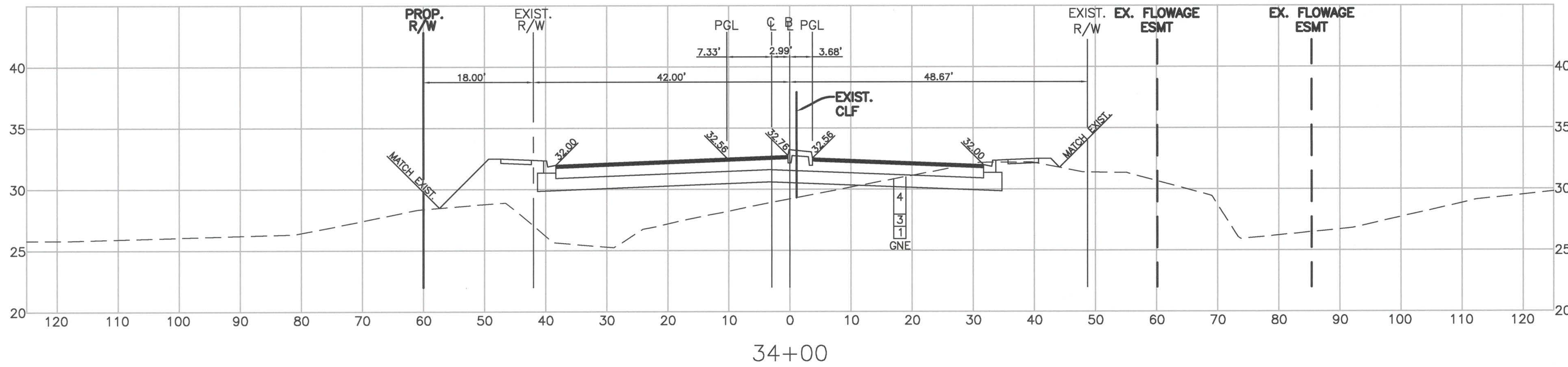
SHEET 43 OF 115



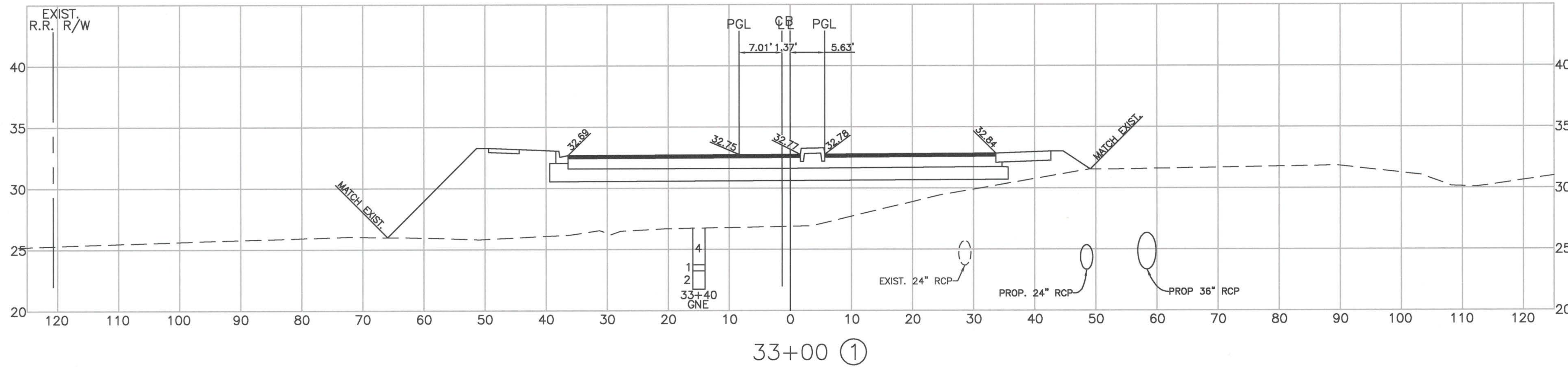
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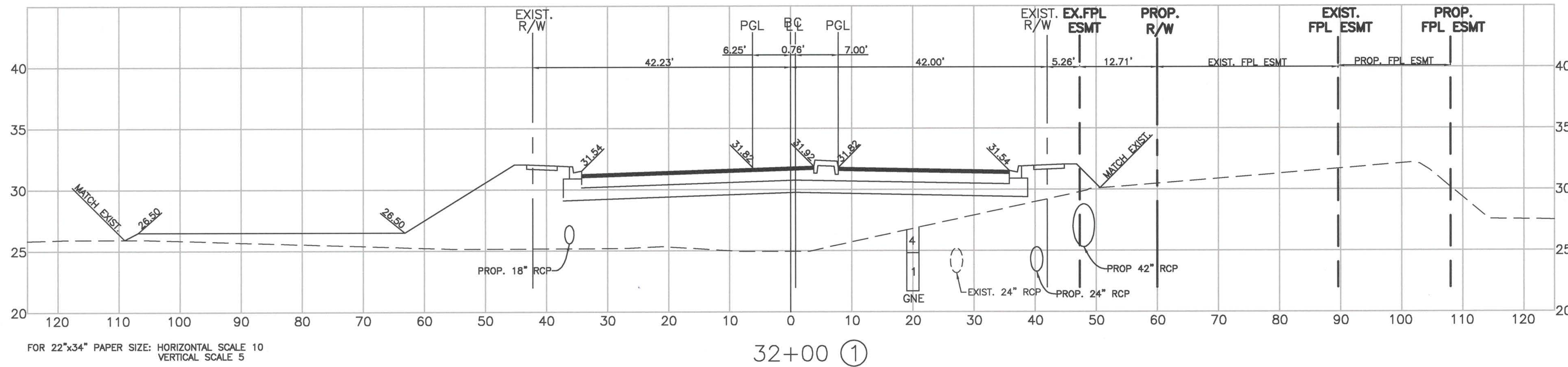
P:\44th Ave E - US41 to 19th St - E\GMD\Cross Sections\Cross Sections 44th - 19th to 19th - NEW\ang73 X-SE5 44th 32+00-34+00 - 5/9/2013 2:19 PM Thom Forrester, T.D.S., ARCH expand D (36.00 x 24.00 inches)



34+00



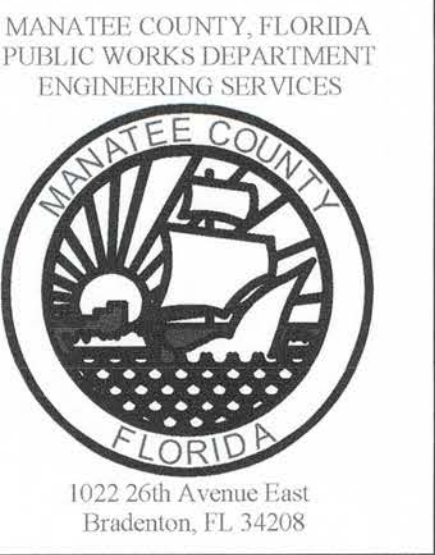
33+00 ①



32+00 ①

FOR 22"x34" PAPER SIZE: HORIZONTAL SCALE 10  
VERTICAL SCALE 5

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	30	57	189	1005
0	0	1	1	353	1487
0	0	57	0	450	1174



**44th AVENUE EAST**  
**US 41 (1st ST.) TO 19th ST. CT. E.**  
**CROSS SECTIONS**  
**44th AVE. E. - STA. 32+00 TO STA. 34+00**

NO.	REVISION DESCRIPTION	DATE	BY
1	S. SWK AND ELEVATIONS REV. UNDERLAYMENT ADDED PER CSX	5/08/13	TMF

PROJECT #	319-6045661
SURVEY #	
SEC./TWN./RGE	6,7/35S/18E
SCALE	H 1:10, V 1:5
	BY DATE
SURVEYED	ZNS 4/10/08
DESIGNED	SF
DRAWN	MRJ
CHECKED	SF 2/16/12

C. MOWBRAY P.E.  
FLORIDA P.E. # 46777

  
 Signature & Date

