

CONTRACT PLAN COMPONENTS

- 63RD ROADWAY PLANS
- 63RD SIGNING AND PAVEMENT MARKING PLANS
- 63RD SIGNALIZATION PLANS
- 63RD LIGHTING PLANS
- 63RD UTILITY RELOCATION PLANS

A DETAILED INDEX APPEARS ON THE KEYSHEET OF EACH COMPONENT

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*THESE SHEETS TO BE INCLUDED FOR INFORMATION ONLY.

**THIS SHEET IS INCLUDED IN THE INDEX OF ROADWAY PLANS ONLY TO INDICATE THAT IS PART OF THE ROADWAY PLANS. THIS SHEET IS CONTAINED IN A SEPARATE DIGITALLY SIGNED AND SEALED DOCUMENT.

PERMITS

- FDOT
- SWFWMD

GOVERNING DESIGN STANDARDS:

FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2023-24 DESIGN STANDARDS eBOOK (DSeB) AND APPLICABLE DESIGN STANDARDS REVISIONS (DSRs) AT THE FOLLOWING WEBSITE:
<https://www.fdot.gov/design/standardplans/current/default.shtm>

GOVERNING STANDARD SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2023-24 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE FOLLOWING WEBSITE:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

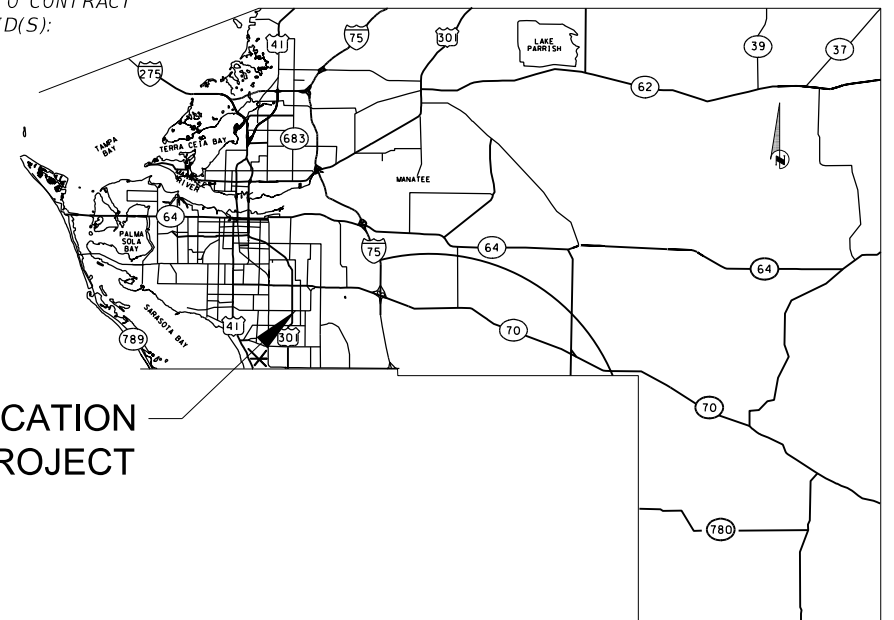


STATE OF FLORIDA
MANATEE COUNTY

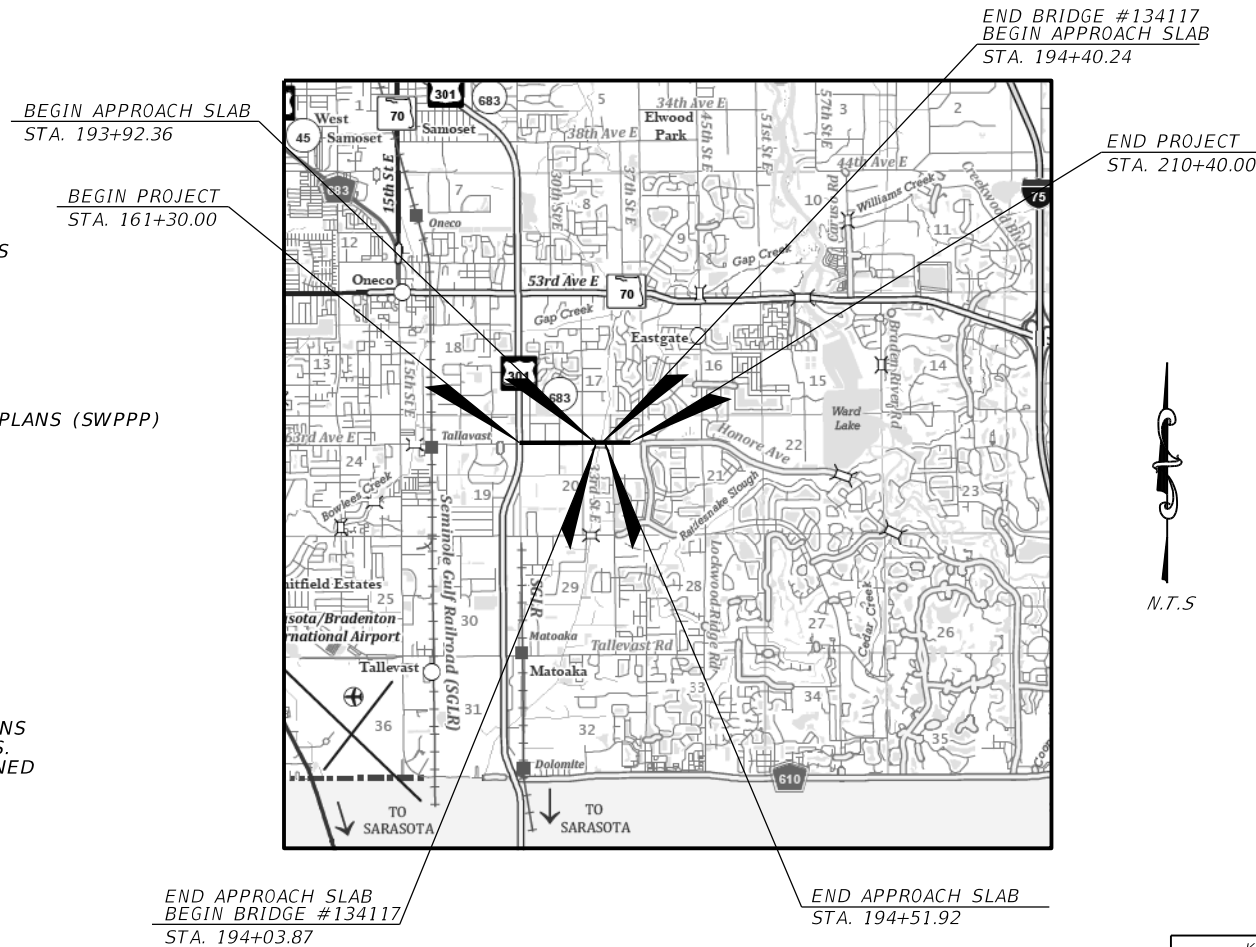
PROPOSED ROADWAY PLANS FOR
63RD AVENUE EAST
FROM US 301 TO TUTTLE AVE.
BRADENTON, FLORIDA

MANATEE COUNTY PROJECT No: 6107860

THIS PROJECT TO BE LET TO CONTRACT
WITH FINANCIAL PROJECT ID(S):
6065961, 6115800



LOCATION OF PROJECT



90% PLANS
DECEMBER 2023



ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ENLARGED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

MANATEE COUNTY PROJECT MANAGER:
ANTHONY RUSSO, P.E.

ROADWAY PLANS
PROFESSIONAL OF RECORD: ADAM S. PEREZ, P.E.

FLORIDA P.E. # 56066

PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637
PHONE: (813) 978-3100

PROJECT LENGTH IS BASED ON C/L OF CONSTRUCTION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	4910.00	0.930
EXCEPTIONS	0.00	0.00
GROSS LENGTH OF PROJECT	4910.00	0.930



KEY SHEET REVISIONS	
DATE	DESCRIPTION

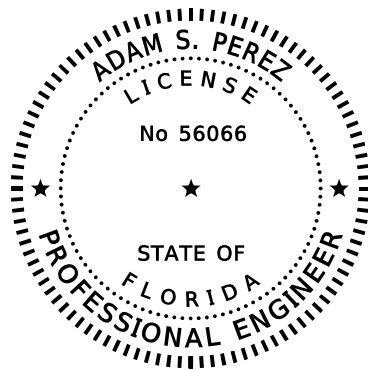
SHEET NO.

NOTES TO REVIEWER

1. UTILITY COORDINATION IS ON-GOING. THE EXISTING AND PROPOSED UTILITIES SHOWN IN THIS SUBMITTAL REFLECT THE INFORMATION PROVIDED BY THE UAO'S DURING THE INITIAL UTILITY SUBMITTAL.
2. THE PAVEMENT DESIGN HAS BEEN SUBMITTED WITH THIS 90% PLAN SET FOR REVIEW. BASE WATER CLEARANCE ELEVATION IS ONE FOOT FOR THE LENGTH OF THE PROJECT.
3. THE TYPICAL SECTION HAS BEEN REVISED FROM THE CORRIDOR STUDY TO PROVIDE A 6-FT SIDEWALK AT THE BACK OF CURB IN ORDER TO MINIMIZE GRAVITY WALL NEEDS AND MAINTAIN THE PROPOSED R/W SHOWN IN THE CORRIDOR STUDY PLANS.
4. THE HORIZONTAL ALIGNMENT AT THE END OF THIS PROJECT HAS BEEN UPDATED FROM THE CORRIDOR STUDY PLANS IN ORDER TO MATCH WITH CIP 6065961. THE PROPOSED R/W HAS ALSO BEEN UPDATED FOR THIS CHANGE.
5. AT US 301, THIS PROJECT WILL BE MATCHING FDOT PROJECT 444211-1-52-01. THE DESIGN OF THE FDOT PROJECT IS BEING REFERENCED AS AN EXISTING CONDITION SINCE IT WILL BE CONSTRUCTED PRIOR TO THIS PROJECT ON 63RD AVENUE.
6. THE PROPOSED R/W FOR THE INTERSECTION AT TUTTLE AVENUE WILL BE ACQUIRED UNDER THIS PROJECT. PROJECT CIP 6065961 (TUTTLE AVENUE INTERSECTION RECONSTRUCTION) HAS BEEN ADDED TO THIS PROJECT AS A COMPONENT SET.

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

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	 ADAM S. PEREZ, P.E. LICENSE NUMBER 56066 PATEL, GREENE & ASSOCIATES, LLC 12570 TELECOM DRIVE TEMPLE TERRACE, FL 33637	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	<i>NOTES TO REVIEWER</i>	SHEET NO.
			DESIGNED BY	ASP	03/2023				
			DRAWN BY	JM	PROJECT NO.				
			CHECKED BY	JPH	6107860				



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY



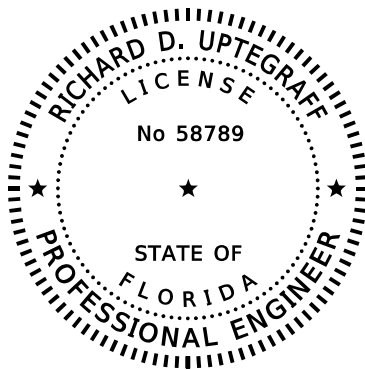
ON THE DATE ADJACENT TO THE SEAL

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PATEL, GREENE AND ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637
ADAM S. PEREZ, P.E. NO.: 56066

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

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12-14	TYPICAL SECTION DETAIL
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33-46	ROADWAY PLAN
61-71	ROADWAY PROFILE
72-76	INTERSECTION LAYOUT/DETAILS
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171-181	DRIVEWAY HALF SECTIONS
201-254	TEMPORARY TRAFFIC CONTROL PLANS
255-268	UTILITY ADJUSTMENTS



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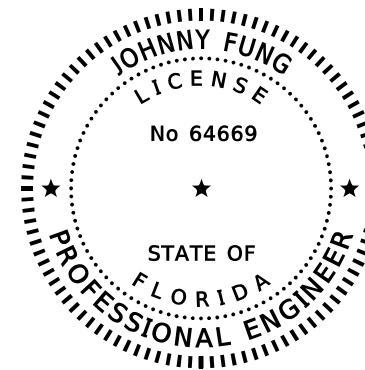
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PATEL, GREENE AND ASSOCIATES, LLC
7020 PROFESSIONAL PARKWAY E., SUITE 104
SARASOTA, FL 34240
RICHARD D. UPTGRAFF, P.E. NO.: 58789

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

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
5-8	DRAINAGE MAP
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PATEL, GREENE AND ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637
JOHNNY FUNG, P.E. NO.: 64669

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SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
77	APPROACH SLAB MODIFICATION DETAILS
78	GRAVITY WALL PIPE OPENING DETAILS

NUMBER	DESCRIPTION	DATE	PROJECT #	6107860	SURVEYED	----	___/___/___
			SURVEY #	----	DESIGNED	----	___/___/___
			SEC./TWN./RGE	00/00/00	DRAWN	----	___/___/___
			SCALE	AS NOTED	CHECKED	----	___/___/___

PGA
ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

Manatee County
FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

SIGNATURE SHEET

SHEET NO.

STRUCTURES				
ITEM NO.	FDOT PAY ITEM NO. REFERENCE	DESCRIPTION	UNIT	QUANTITY
1	110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	SF	49
2	400-2-10	CONC CLASS II, APPROACH SLABS	CY	3.3
3	515-4-2	BULLET RAIL, DOUBLE RAIL	LF	25
4	521-5-4	CONC TRAF RAIL-BRG, 32" VERT FACE	LF	25

ROADWAY				
ITEM NO.	FDOT PAY ITEM NO. REFERENCE	DESCRIPTION	UNIT	QUANTITY
5	101-1	MOBILIZATION	LS	1
6	102-1	MAINTENANCE OF TRAFFIC	LS	1
7	102-2-200	SPECIAL DETOUR-TEMPORARY PAVEMENT	SY	3644
8	102-3	COMMERCIAL MATL FOR TEMP DRIVEWAY MAINT	CY	447
9	102-14	TRAFFIC CONTROL OFFICER	HR	404
10	102-60	WORK ZONE SIGN	ED	38824
11	102-61	BUSINESS SIGN	EA	26
12	102-74-1	CHANNEL DEVICE-TYPS I, II, DI, VP, DRUM, LC	ED	180715
13	102-76	ARROW BOARD/ADVANCE WARNING ARROW PANEL	ED	42
14	102-78-1	TEMPORARY RAISED/RETROREFLECTIVE PAVEMENT MARKER, TYPE D	EA	260
15	102-99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	3514
16	102-115	TYPE III BARRICADE	ED	12068
17	102-913-21	REMOVABLE TAPE, WHITE, SOLID, 6"	GM	0.056
18	102-913-31	REMOVABLE TAPE, YELLOW, SOLID, 6"	GM	0.050
19	104-10-3	SEDIMENT BARRIER	LF	20220
20	104-11	FLOATING TURBIDITY BARRIER	LF	929
21	104-15	SOIL TRACKING PREVENTION DEVICE	EA	3
22	104-18	INLET PROTECTION SYSTEM	EA	19
23	107-1	LITTER REMOVAL	AC	101.90
24	107-2	MOWING	AC	115.09
25	110-1-1	CLEARING AND GRUBBING	LS (AC)	25.76
26	110-4-10	REMOVAL OF EXISTING CONCRETE	SY	4158
27	110-7-1	MAILBOX, F&I SINGLE	EA	18
28	110-23	TREE REMOVAL	EA	1
29	120-1	REGULAR EXCAVATION	CY	124944
30	120-4	SUBSOIL EXCAVATION	CY	21849
31	120-6	EMBANKMENT	CY	28820
32	160-4	TYPE B STABILIZATION	SY	42308
33	285-709	OPTIONAL BASE, BASE GROUP 09	SY	39103
34	327-70-4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	SY	2108
35	327-70-6	MILLING EXIST ASPH PAVT, 1 1/2" AVG DEPTH	SY	5015
36	334-1-13	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C	TN	6773.2
37	337-7-83	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22	TN	3783.0
38	339-1	MISCELLANEOUS ASPHALT PAVEMENT	TN	5.4
39	400-0-11	CONCRETE CLASS NS, GRAVITY WALL	CY	278
40	425-1-351	INLETS, CURB, TYPE P-5, <10'	EA	10
41	425-1-361	INLETS, CURB, TYPE P-6, <10'	EA	12
42	425-1-451	INLETS, CURB, TYPE J-5, <10'	EA	7
43	425-1-461	INLETS, CURB, TYPE J-6, <10'	EA	6
44	425-1-521	INLETS, DT BOT, TYPE C, <10'	EA	2
45	425-1-531	INLETS, DT BOT, TYPE C, MOD-BACK, <10'	EA	3
46	425-1-533	INLETS, DT BOT, TYPE C, MOD, J BOT, <10'	EA	8
47	425-1-541	INLETS, DT BOT, TYPE D, <10'	EA	5

ROADWAY				
ITEM NO.	FDOT PAY ITEM NO. REFERENCE	DESCRIPTION	UNIT	QUANTITY
48	425-1-551	INLETS, DT BOT, TYPE E, <10'	EA	4
49	425-1-910	INLETS, CLOSED FLUME	EA	4
50	425-2-41	MANHOLES, P-7, <10'	EA	2
51	425-2-61	MANHOLES, P-8, <10'	EA	7
52	425-2-71	MANHOLES, J-7, <10'	EA	2
53	425-2-91	MANHOLES, J-8, <10'	EA	42
55	430-174-218	PIPE CULV, OPT MATL, OTHER, 18" SD	LF	36
56	430-175-112	PIPE CULV, OPT MATL, ROUND,12"S/CD	LF	13
57	430-175-115	PIPE CULV, OPT MATL, ROUND, 15" S/CD	LF	79
58	430-175-118	PIPE CULV, OPT MATL, ROUND,18"S/CD	LF	1761
59	430-175-124	PIPE CULV, OPT MATL, ROUND,24"S/CD	LF	1226
60	430-175-130	PIPE CULV, OPT MATL, ROUND,30"S/CD	LF	488
61	430-175-136	PIPE CULV, OPT MATL, ROUND,36"S/CD	LF	3881
62	430-175-142	PIPE CULV, OPT MATL, ROUND,42"S/CD	LF	5566
63	430-175-215	PIPE CULV, OPT MATL, OTHER,15"S/CD	LF	19
64	430-175-218	PIPE CULV, OPT MATL, OTHER,18"S/CD	LF	71
66	430-175-236	PIPE CULV, OPT MATL, OTHER,36"S/CD	LF	1124
67	430-518-100	STRAIGHT CONC ENDW 18", SINGLE, 0 ROUND	EA	10
68	430-524-130	STRAIGHT CONC ENDW 24", SINGLE, 45 ROUND	EA	1
69	430-982-125	MITERED END SECT, OPTIONAL RD, 18" CD	EA	1
70	430-982-129	MITERED END SECT, OPTIONAL RD, 24" CD	EA	2
71	430-982-133	MITERED END SECT, OPTIONAL RD, 30" CD	EA	2
72	430-982-138	MITERED END SECT, OPTIONAL RD, 36" CD	EA	1
73	430-982-140	MITERED END SECT, OPTIONAL RD, 42" CD	EA	1
74	430-984-625	MITERED END SECT, OPT/OTHER, 18" SD	EA	2
75	515-1-1	PIPE HANDRAIL-GUIDERAIL, STEEL	LF	1637
76	520-1-7	CONCRETE CURB & GUTTER, TYPE E	LF	56
77	520-1-10	CONCRETE CURB & GUTTER, TYPE F	LF	10919
78	520-2-1	CONCRETE CURB, TYPE A	LF	1642
79	520-2-4	CONCRETE CURB, TYPE D	LF	61
80	520-3	VALLEY GUTTER - CONCRETE	LF	24
81	520-5-41	TRAFFIC SEPARTOR CONCRETE-TYPE IV, 4' WIDE	LF	39
82	520-70	CONCRETE TRAFFIC SEPARATOR, SPECIAL-VARIABLE WIDTH	SY	15144
83	521-5-4	CONCRETE TRAFFIC RAILING-BRIDGE, 32" VERTICAL FACE	LF	25
84	522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	5666
85	522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	2850
86	524-1-29	CONCRETE DITCH PAVT, 4", REINFORCED	SY	64
87	527-2	DETECTABLE WARNINGS	SF	244
88	536-1-0	GUARDRAIL-ROADWAY, GENERAL/LOW SPEED TL-2	LF	38824
89	536-8-111	GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-001, TL-2	EA	2
90	536-73	GUARDRAIL REMOVAL	LF	33
91	536-85-24	GUARDRAIL END TREATMENT (PARALLEL APPROACH TERMINAL)	EA	2
92	570-1-2	PERFORMANCE TURF, SOD	SY	38961
93	710-11-101	PAINTED PAVT. MARKINGS, STD., WHITE, SOLID, 6"	GM	5.992
94	710-11-123	PAINTED PAVT. MARKINGS, STD., WHITE, SOLID, 12"	LF	1743
95	710-11-125	PAINTED PAVT. MARKINGS, STD., WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	512
96	710-11-141	PAINTED PAVT. MARKINGS, STD., WHITE, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXT, 6"	GM	0.097
97	710-11-201	PAINTED PAVT. MARKINGS, STD., YELLOW, SOLID, 6"	GM	5.303
98	710-11-224	PAINTED PAVT. MARKINGS, STD., YELLOW, SOLID, 18"	LF	510
99	1050-31-208	UTILITY PIPE-PVC, F&I 8"	LF	14

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

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Manatee County PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

SUMMARY OF PAY ITEMS (1)

SHEET NO.



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

SIGNALIZATION				
ITEM NO.	FDOT PAY ITEM NO. REFERENCE	DESCRIPTION	UNIT	QUANTITY
101	630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	3535
102	630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	2665
103	630-2-14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF	40
104	632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	1
105	633-1-121	FIBER OPTIC CABLE, F&I, UG, 2-12	LF	90
106	633-1-122	FIBER OPTIC CABLE, F&I, UG, 13-48	LF	6587
107	633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	20
109	633-3-11	FIBER OPTIC CONN HDWR, SPLICE ENCLOSURE	EA	2
110	633-3-12	FIBER OPTIC CONN HDWR, SPLICE TRAY	EA	2
112	633-3-15	FIBER OPTIC CONN HDWR, PRETERM PATCH PAN	EA	1
117	633-8-1	MULTI-CONDUCTOR COMMUNICATION CABLE, F&I	LF	3914
119	635-2-12	PULL & SPLICE BOX, F&I, 24" X 36"	EA	24
120	635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" OR 36"	EA	2
121	635-2-14	PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE	EA	9
122	639-1-122	ELECTRICAL POWER SERVICE, F&I, UG, PURCHASED BY CONTRACTOR	AS	1
123	639-2-1	ELECTRICAL SERVICE WIRE, F&I	LF	100
124	639-4-6	EMERGENCY GENERATOR-PORTABLE, HO (F&I, HOUSING ONLY)	EA	1
125	641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1
126	641-2-13	PRESTRESSED CONCRETE POLE, F&I, TYPE P-III	EA	4
127	646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	8
128	649-21-3	STEEL MAST ARM ASSEMBLY, F&I (40')	EA	1
129	649-21-6	STEEL MAST ARM ASSEMBLY, F&I (50')	EA	1
131	649-21-14	STEEL MAST ARM ASSEMBLY, F&I (60'/60')	EA	1
133	650-1-14	VEHICULAR TRAFFIC SIGNAL, F&I ALUMINUM, 3 SECTION, 1 WAY	AS	8
134	650-1-16	VEHICULAR TRAFFIC SIGNAL, F&I ALUMINUM, 4 SECTION, 1 WAY	AS	6
138	653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNTDOWN, 1 WAY	AS	8
139	660-3-11	VEHICLE DETECTION SYSTEM - MICROWAVE, F&I, CABINET EQUIPMENT	EA	3
140	660-3-12	VEHICLE DETECTION SYSTEM - MICROWAVE, F&I, ABOVE GROUND EQUIPMENT	EA	10
142	665-1-12	PEDESTRIAN DETECTOR, F&I, ACCESSIBLE	EA	8
143	670-5-110	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS	1
146	682-1-113	ITS CCTV CAMERA, F&I, DOME ENCL-PRESS	EA	1
147	684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	EA	1
149	685-1-13	UNINTERRUPTIBLE POWER SUPPLY, F&I, LINE INTERACTIVE W CAB	EA	1
151	700-3-201	SIGN PANEL, F&I OM, UP TO 12 SF	EA	8
152	700-5-22	INTERNALLY ILLUMINATED SIGN, F&I	EA	4

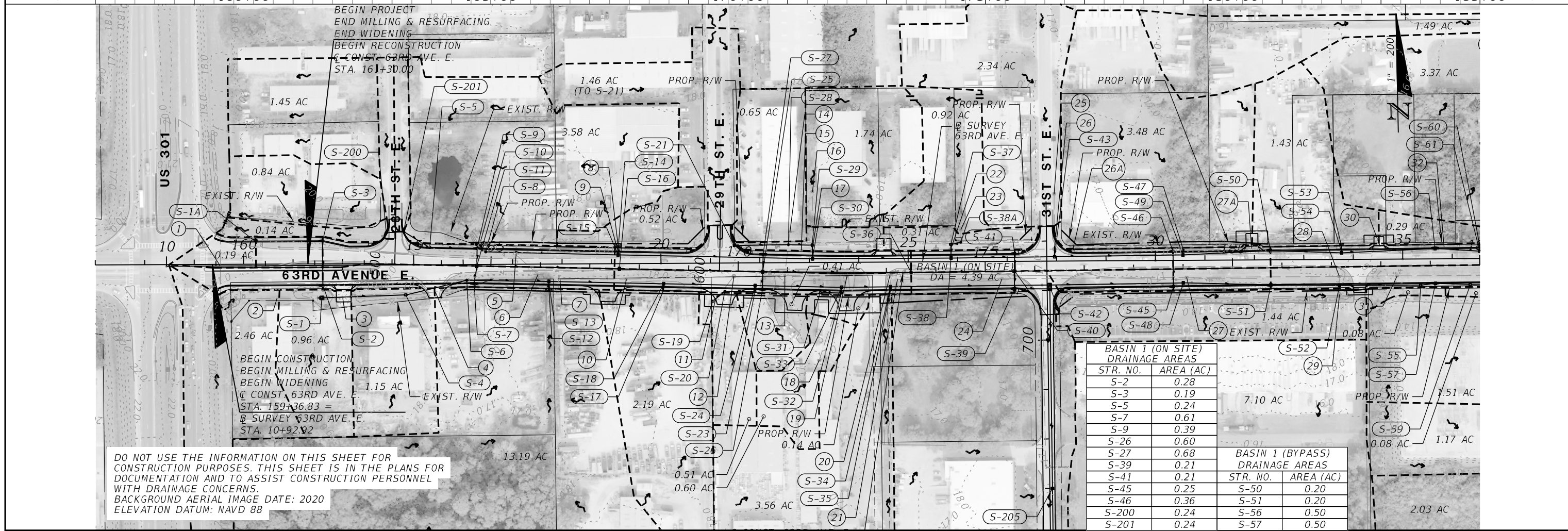
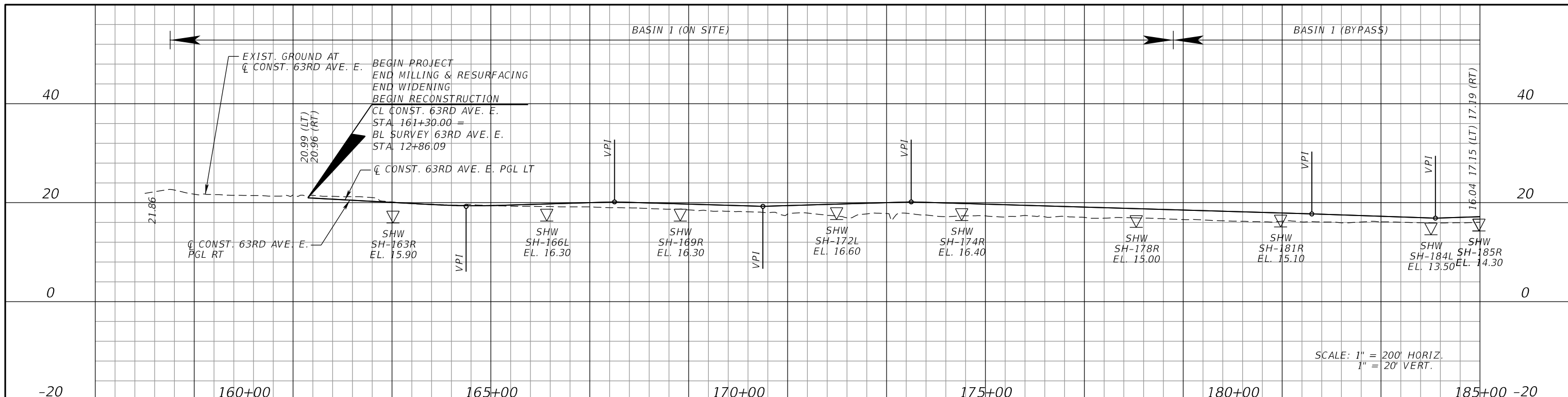
LIGHTING				
ITEM NO.	FDOT PAY ITEM NO. REFERENCE	DESCRIPTION	UNIT	QUANTITY
154	630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	4700
155	630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	5536
156	635-2-11	PULL & SPLICE BOX, F&I, 13" X 24"	EA	57
157	639-1-121	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER FURNISHED BY POWER COMPANY	AS	1
158	715-1-12	LIGHTING CONDUCTORS, F&I, INSUL, NO. 8-6	LF	35066
159	715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO. 4-2	LF	18
161	715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	1
162	715-61-111	LIGHT POLE COMPLETE, F&I, STANDARD POLE STANDARD FOUNDATION, 30' MOUNTING HEIGHT, 8' ARM LENGTH	EA	2
163	715-61-211	LIGHT POLE COMPLETE, F&I, STANDARD POLE STANDARD FOUNDATION, 35' MOUNTING HEIGHT, 8' ARM LENGTH	EA	24
166	715-65-266	LIGHT POLE COMPLETE, F&I, UTILITY CONFLICT POLE STANDARD FOUNDATION, 35' MOUNTING HEIGHT, 16' ARM LENGTH	EA	30
167	715-500-1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA	57

SIGNING AND PAVEMENT MARKING				
ITEM NO.	FDOT PAY ITEM NO. REFERENCE	DESCRIPTION	UNIT	QUANTITY
168	523-3	PATTERNED PAVEMENT	SY	381
169	700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	31
170	700-1-50	SINGLE POST SIGN, RELOCATE	AS	1
171	700-1-60	SINGLE POST SIGN, REMOVE	AS	35
173	700-2-12	MULTI-POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	2
174	700-2-13	MULTI-POST SIGN, F&I GROUND MOUNT, 21-30 SF	AS	2
175	700-2-14	MULTI-POST SIGN, F&I GROUND MOUNT, 31-50 SF	AS	1
177	700-3-501	SIGN PANEL, RELOCATE, UP TO 12 SF	EA	10
180	705-10-1	OBJECT MARKER, TYPE I	EA	4
181	706-1-3	RAISED PAVEMENT MARKER, TYPE B	EA	855
182	710-11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	73
183	710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS	1
	*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	
	*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF	
	*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	
	*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM	
	*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXTENSION, 6"	GM	
	*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	
	*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	
	*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	
	*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6", 10-30 SKIP	GM	
	*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION, 6"	GM	
185	711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	1471
187	711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	471
188	711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM	0.511
189	711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	53
190	711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	367
191	711-11-241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM	0.102
192	711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	465
193	711-14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	19
194	711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA	19
195	711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES WHITE, SOLID, 6"	GM	3,923
196	711-16-131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6", 10-30 SKIP	GM	1,822
197	711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.212
198	711-16-231	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SKIP, 6", 10-30 SKIP	GM	0.876
199	713-103-101	PERMANENT TAPE, WHITE, SOLID, 6" CONC BR	GM	0.045
200	713-103-131	PERMANENT TAPE, WHITE, SKIP/D, 6" FOR CONC	GM	0.023
201	713-103-201	PERMANENT TAPE, YELLOW, SOLID, 6" CONC BR	GM	0.023
202	713-103-231	PERMANENT TAPE, YELLOW, SKIP, 6" FOR CONC	GM	0.030
203	713-103-331	PERMANENT TAPE, BLACK, SKIP/D, 6" FOR CONC	GM	0.030

1. 120-4 PAY ITEM INCLUDES 81, 023 CY OF MATERIAL FROM THE FLOODPLAIN COMPENSATION SITE (FPC). THIS MATERIAL WAS CLASSIFIED BY MINIMAL GEOTECHNICAL INVESTIGATION TO BE DISTURBED BY EXCAVATION FOR BURYING OF DEBRIS AND ARE NOT IN THEIR NATURAL STATE. DEBRIS INCLUDES SOIL MIXED WITH VARIABLE AMOUNTS OF CONCRETE, BRICK, PLASTIC, ASPHALT, AND/OR WOOD. PETROLEUM RELATED CONSTITUENTS WERE ALSO DETECTED IN THE NON-HAZARDOUS RANGE. UTILIZATION OF THIS MATERIAL FOR EMBANKMENT MATERIAL WOULD REQUIRE THE MATERIAL TO BE MECHANICALLY SCREENED AND TESTED TO MEET PROJECT SPECIFICATIONS.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	 ADAM S. PEREZ, P.E. LICENSE NUMBER 56066 PATEL, GREENE & ASSOCIATES, LLC 12570 TELECOM DRIVE TEMPLE TERRACE, FL 33637	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	SUMMARY OF PAY ITEMS (2)	SHEET NO.
			DESIGNED BY	ASP	03/2023				
			DRAWN BY	JM	PROJECT NO.				
			CHECKED BY	JPH	6107860				

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



NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				RDU	03/2023
				ZK	PROJECT NO.
				TAP	6107860

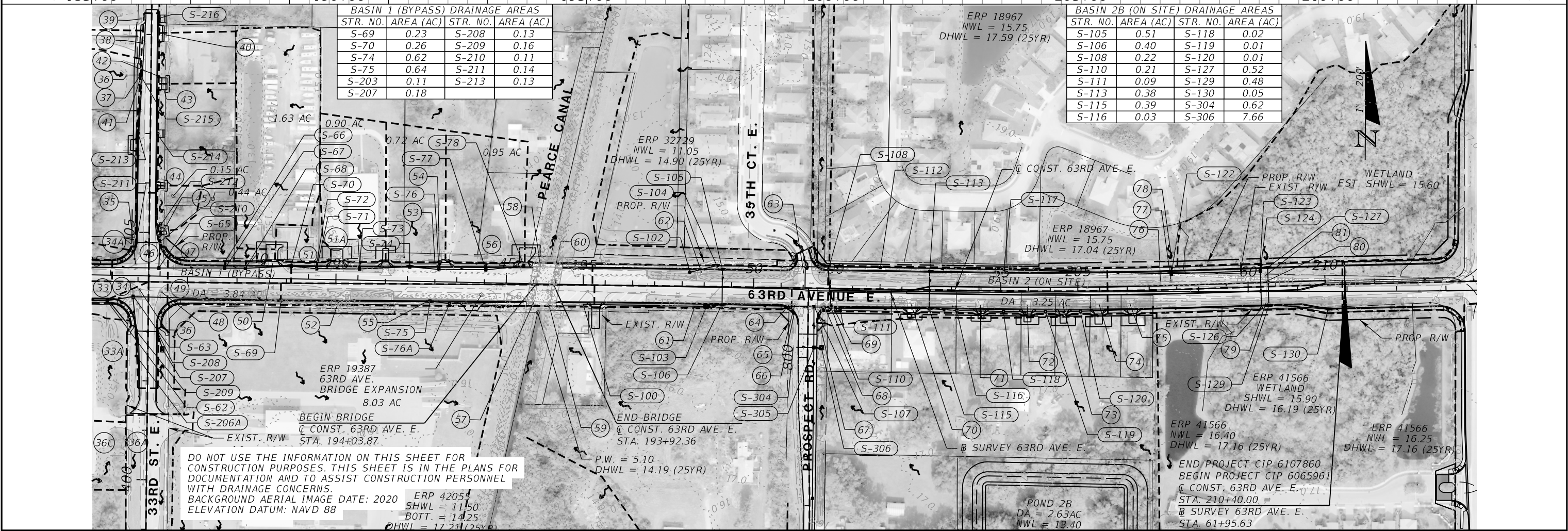
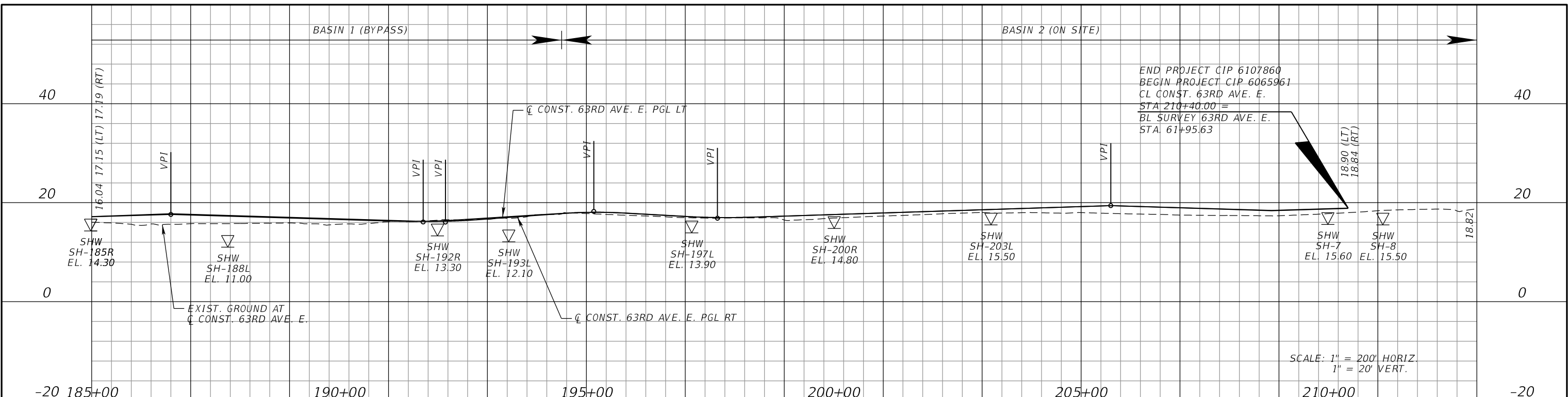
RICHARD D. UPTGRAFF, P.E.
LICENSE NUMBER 58789
PATEL, GREENE & ASSOCIATES, LLC
7020 PROFESSIONAL PARKWAY E
SUITE 104
SARASOTA, FL 34240

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

DRAINAGE MAP (1)

SHEET NO.

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RICHARD D. UPTGRAFF, P.E.
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 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

DRAINAGE MAP (2)

SHEET NO.

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DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS. BACKGROUND AERIAL IMAGE DATE: 2020 ELEVATION DATUM: NAVD 88

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	03/2023
			DRAWN BY	ZK	PROJECT NO.
			CHECKED BY	TAP	6107860

PGA
 RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
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 SARASOTA, FL 34240

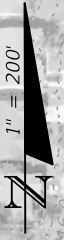
Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

DRAINAGE MAP (3)

SHEET NO.

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 BACKGROUND AERIAL IMAGE DATE: 2020
 ELEVATION DATUM: NAVD 88



NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			DRAWN BY	ZK	PROJECT NO.
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RICHARD D. UPTGRAFF, P.E.
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PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

DRAINAGE MAP (4)

SHEET NO.

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

- 1 CROSSDRAIN
S INV. 18" RCP = 16.20
N INV. 18" RCP = 15.91
- 2 SIDEDRAIN
W INV. 18" RCP = 15.94
E INV. 18" RCP = 15.80
- 3 SIDEDRAIN
W INV. 18" RCP = 15.61
E INV. 18" RCP = 15.67
- 4 SIDEDRAIN
W INV. 18" RCP = 15.48
E INV. 18" RCP = 15.51
- 5 CATCH BASIN
TOP EL. = 18.18
N INLET EL. = 15.89
E/W INV. N/A
- 6 ENDWALL
NW INV. 18"x24" ERCP = 14.51
- 7 ENDWALL
E INV. 24" CLAY = 14.93
- 8 ENDWALL
S INV. 16" RCP = 13.33
- 9 GRATE INLET
GRATE EL. = 18.36
N INV. 16" RCP = 15.23
W INV. 16" RCP = 15.04
E INV. 16" RCP = 14.93
- 10 CATCH BASIN
TOP EL. = 16.95
INLET EL. = N/A
E/W INV. N/A
- 11 GRATE INLET
GRATE EL. = 16.76
NE INV. N/A
- 12 MANHOLE
TOP EL. = 17.90
E INV. N/A = 13.70
W INV. N/A = 13.68
SW INV. N/A = 13.98
- 13 CATCH BASIN
TOP EL. = 16.31
INLET EL. = N/A
N/E/W INV. N/A
- 14 GRATE INLET
GRATE EL. = 16.91
WEIR EL. = 16.31
S INV. 6" PVC = 14.91
E INV. 4" PVC = 14.31
- 15 GRATE INLET
GRATE EL. = 17.45
E INV. 18" RCP = 14.40
NE INV. 12" RCP = 14.53
W INV. 18" RCP = 14.39
- 16 GRATE INLET
GRATE EL. = 16.97
S INV. 12" RCP = 15.45
- 17 GRATE INLET
GRATE EL. = 17.47
W INV. 18" RCP = 14.19
N INV. 12"x16" ERCP = 15.32
E INV. 24" RCP = 14.17
- 18 GRATE INLET
GRATE EL. = 16.94
N INV. 15" CLAY = 14.87

- 19 CATCH BASIN
TOP EL. = 17.01
S INLET EL. = 14.06
W INV. 24" PP = 13.90
E INV. 24" PP = 13.83
SW INV. = 13.76
- 20 PIPE END
W INV. 24" PP = N/A
- 21 PIPE END
E INV. 30" RCP = N/A
- 22 MANHOLE
TOP EL. = 17.06
W INV. 24" RCP = 13.56
E INV. 24" RCP = 13.46
NE INV. 24" RCP = 14.80
- 23 GRATE INLET
GRATE EL. = 16.82
SW INV. 24" RCP = 13.95
- 24 GRATE INLET
GRATE EL. = 17.50
W INV. = 11.94
E INV. = 11.82
- 25 CATCH BASIN
TOP EL. = 16.88
INLET EL. = N/A
S INV. = 14.54
- 26 MANHOLE
TOP EL. = 16.57
W INV. 12"x18" ERCP = 12.89
E INV. 12"x18" ERCP = 12.97
N INV. 12"x18" ERCP = 13.85
- 26A PIPE END
N/A
- 27 GRATE INLET
GRATE EL. = 17.07
E INV. = 11.67
W INV. = 11.72
- 27A SIDEDRAIN
E INV. 12"x18" ERCP = 12.81
W INV. 12"x18" ERCP = 12.51
- 28 GRATE INLET
GRATE EL. = 16.30
W INV. = 11.42
E INV. = 11.10
S INV. 15" RCP = 12.42
- 29 MANHOLE
TOP EL. = 17.60
N INV. 15" RCP = 14.23
- 30 SIDEDRAIN
E INV. 24" RCP = 11.20
W INV. 24" RCP = 11.52
- 31 GRATE INLET
GRATE EL. = 14.96
W INV. = 11.18
E INV. = 11.21
- 32 SIDEDRAIN
E INV. = 11.46
W INV. = 11.32
- 33 GRATE INLET
GRATE EL. = 15.01
W INV. 24" RCP = 11.15
E INV. 24" RCP = 11.04

- 34 GRATE INLET
GRATE EL. = 14.88
W INV. = 11.08
E INV. = 10.88
- 34A ENDWALL
E INV. 24" RCP = 11.02
- 35 GRATE INLET
GRATE EL. = 15.20
W INV. = 11.32
E INV. = 11.05
- 36 GRATE INLET
GRATE EL. = 15.08
W INV. 24" RCP = 10.98
E INV. 24" RCP = 11.02
- 37 CATCH BASIN
TOP EL. = 15.62
INLET EL. = N/A
N INV. = 13.61
S INV. = 13.80
E INV. = 13.77
- 38 CATCH BASIN
TOP EL. = 15.61
INLET EL. = N/A
N INV. = 13.33
S INV. = 13.34
E INV. = 13.49
- 39 MES
S INV. = 13.31
- 40 SIDEDRAIN
S INV. = 13.55
N INV. = 13.45
- 41 MES
N INV. = 14.06
- 42 MANHOLE
TOP EL. = N/A
W/S INV. = 10.61
- 43 ENDWALL
N INV. = N/A
- 44 SIDEDRAIN
S INV. = 13.30
N INV. = 13.64
- 45 SIDEDRAIN
S INV. 24" RCP = 13.26
N INV. 24" RCP = 13.23
- 46 ENDWALL
S INV. 18" RCP = 13.05
- 47 ENDWALL
W INV. 24" RCP = 10.78
- 48 GRATE INLET
GRATE EL. = 15.07
E INV. = 10.80
W INV. = 10.99
- 49 ENDWALL
W INV. = 10.67
- 50 SIDEDRAIN
E INV. 14"x18" ERCP = 10.44
W INV. 14"x18" ERCP = 9.29
- 51 MES
E INV. 36" RCP = 9.96

- 51A GRATE INLET
GRATE EL. = 15.29
N INV. 8" PVC = 13.16
W INV. 36" RCP = 9.07
E INV. 36" RCP = 9.04
- 52 MES
E INV. 36" RCP = 8.54
- 53 MANHOLE
TOP EL. = 16.70
W INV. 36" RCP = 8.60
E INV. 36" RCP = 8.57
- 54 GRATE INLET
GRATE EL. = 13.86
S INV. 18" PVC = 12.53
- 55 MANHOLE
TOP EL. = 16.66
W INV. 36" RCP = 7.43
E INV. 42" RCP = 7.41
- 56 GRATE INLET
GRATE EL. = 13.32
S INV. 18" RCP = 10.72
- 57 PIPE END
W INV. 42" RCP = 5.14
- 58 PIPE END
W INV. 42" RCP = 6.34
- 59 PIPE END
E INV. 36" RCP = 9.07
- 60 PIPE END
E INV. 36" RCP = 8.31
- 61 MES
W INV. 36" RCP = 12.04
- 62 MES
W INV. 36" RCP = 9.85
- 63 SIDEDRAIN
E INV. = 11.46
W INV. = 12.20
- 64 MES
E INV. 36" RCP = 12.70
- 65 MANHOLE
TOP EL. = 15.95
W INV. 36" RCP = 12.79
E INV. 36" RCP = 12.95
N INV. 36" RCP = 12.68
- 66 GRATE INLET
GRATE EL. = 15.78
N INV. 36" RCP = 13.23
- 67 MES
N INV. 36" RCP = 13.69
- 68 MANHOLE
TOP EL. = 16.50
W INV. 36" RCP = 12.92
E INV. 36" RCP = 12.97
S INV. 36" RCP = 13.02
- 69 MES
W INV. 36" RCP = 13.18
- 70 SIDEDRAIN
E INV. = 13.54
W INV. = 14.34
- 71 SIDEDRAIN
E INV. 18" RCP = 14.77
W INV. 18" RCP = 14.85

- 72 SIDEDRAIN
E INV. 12" RCP = 15.01
W INV. 12" RCP = 15.05
- 73 SIDEDRAIN
E INV. 12" RCP = 15.12
W INV. 12" RCP = 15.00
- 74 SIDEDRAIN
E INV. 24" RCP = 15.02
W INV. 24" RCP = 15.26
- 75 SIDEDRAIN
E INV. 18" RCP = 15.25
W INV. 18" RCP = 15.21
- 76 PIPE END
E INV. 12" RCP = 14.13
- 77 GRATE INLET
GRATE EL. = 17.13
N INV. = 13.28
W INV. = 13.38
E INV. = 13.38
- 78 PIPE END
S INV. = N/A
- 79 PIPE END
N INV. = N/A
- 80 GRATE INLET
GRATE EL. = 17.13
WEIR EL. = 15.76
N INV. = 14.40
W INV. = 13.38
S INV. = 13.28
- 81 PIPE END
S INV. = N/A
- 33A GRATE INLET
GRATE EL. = 15.45
N TOP OF PIPE 15" RCP = 13.66
- 36A GRATE INLET
GRATE EL. = 14.75
N INV. 18" RCP = 11.61
S INV. 18" RCP = 12.38
W INV. 15" RCP = 11.66
- 36B GRATE INLET
GRATE EL. = N/A
INV. 18" RCP = N/A
- 36C GRATE INLET
GRATE EL. = 15.44
E TOP OF PIPE 15" RCP = 13.6

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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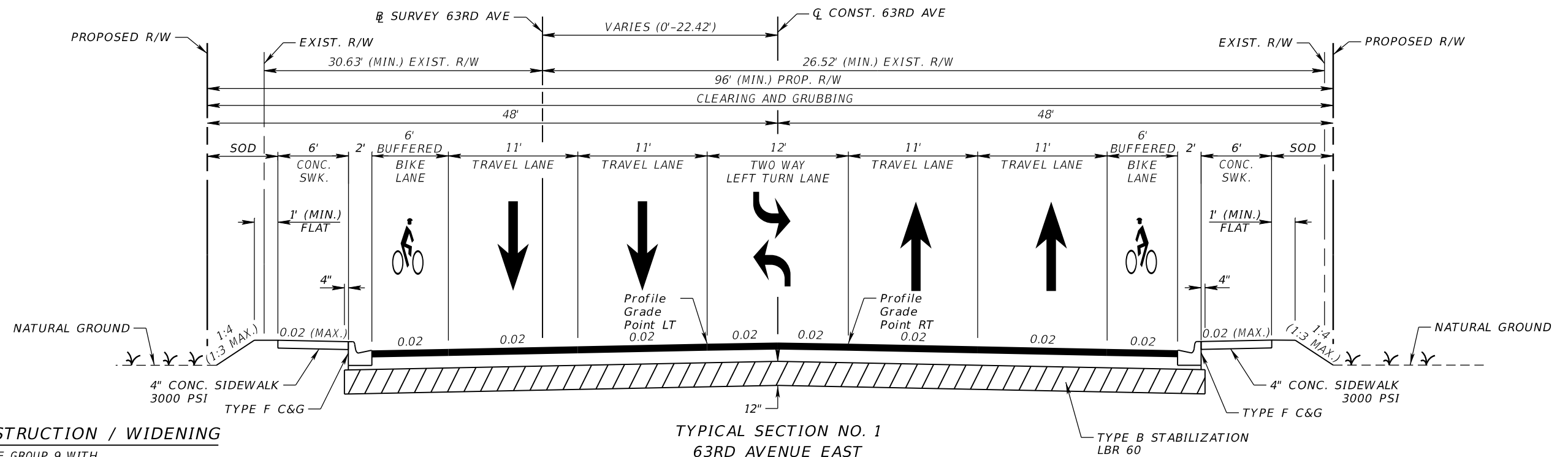
RICHARD D. UPTGRAFF, P.E.
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1022 26th Avenue East
Bradenton, FL 34208

*EXISTING
DRAINAGE STRUCTURES*

SHEET NO.

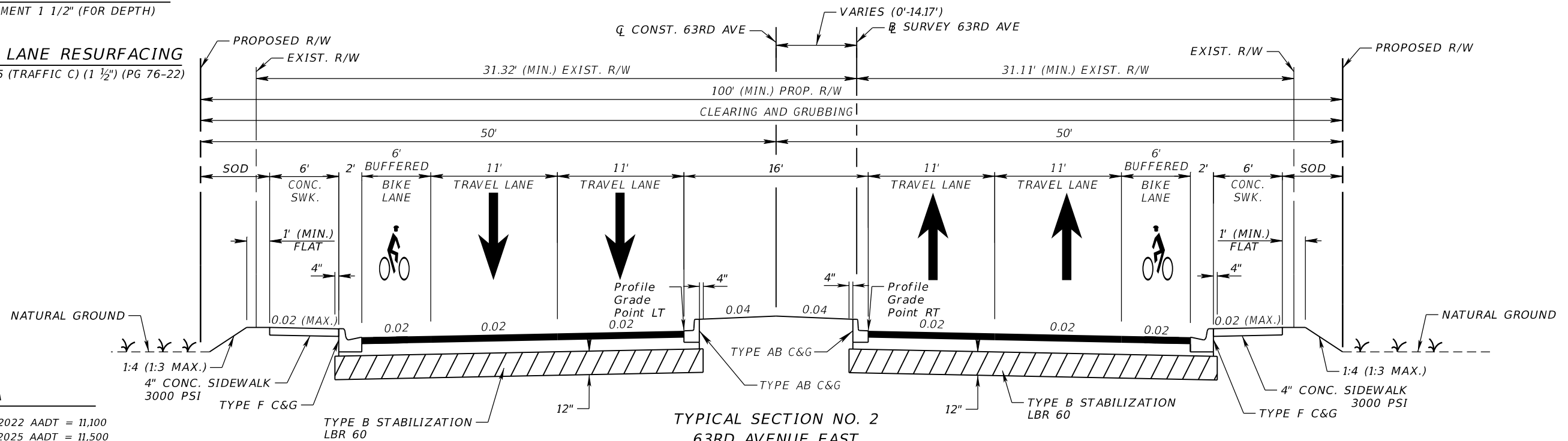


TYPICAL SECTION NO. 1
 63RD AVENUE EAST
 FROM STA. 161+30.00 TO STA. 193+92.36
 EXISTING BRIDGE STA. 193+92.36 TO STA. 194+51.92

TRAVEL LANES RECONSTRUCTION / WIDENING
 OPTIONAL BASE GROUP 9 WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (3")
 AND FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

TRAVEL / TURN LANE MILLING
 MILL EXISTING PAVEMENT 1 1/2" (FOR DEPTH)

TRAVEL / TURN LANE RESURFACING
 FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)



TYPICAL SECTION NO. 2
 63RD AVENUE EAST
 FROM STA. 194+51.92 TO STA. 210+40.00

TRAFFIC DATA

CURRENT YEAR = 2022 AADT = 11,100
 ESTIMATED OPENING YEAR = 2025 AADT = 11,500
 ESTIMATED DESIGN YEAR = 2045 AADT = 15,000
 K = 9% D = 55% T = 8.2% (24 HOUR)
 DESIGN HOUR T = 4.1%

DESIGN SPEED = 40 MPH
 POSTED SPEED = 40 MPH

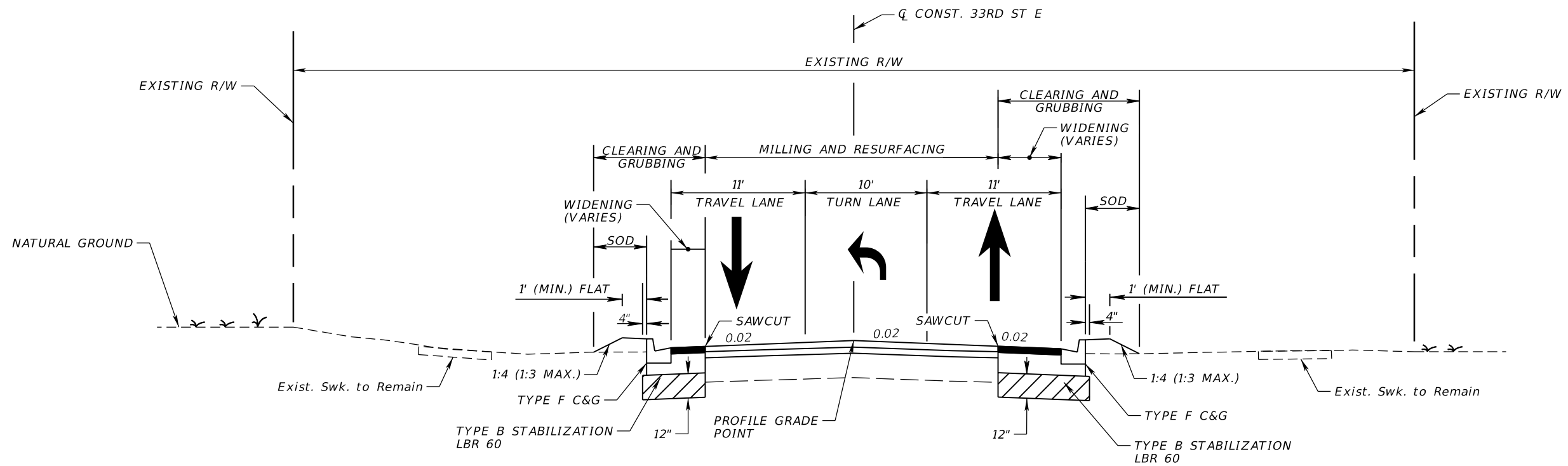
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
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PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

TYPICAL SECTION (1)

SHEET NO.



TYPICAL SECTION NO. 3
33RD STREET EAST
FROM STA. 401+34.00 TO STA. 403+66.00

TRAVEL / TURN LANE WIDENING

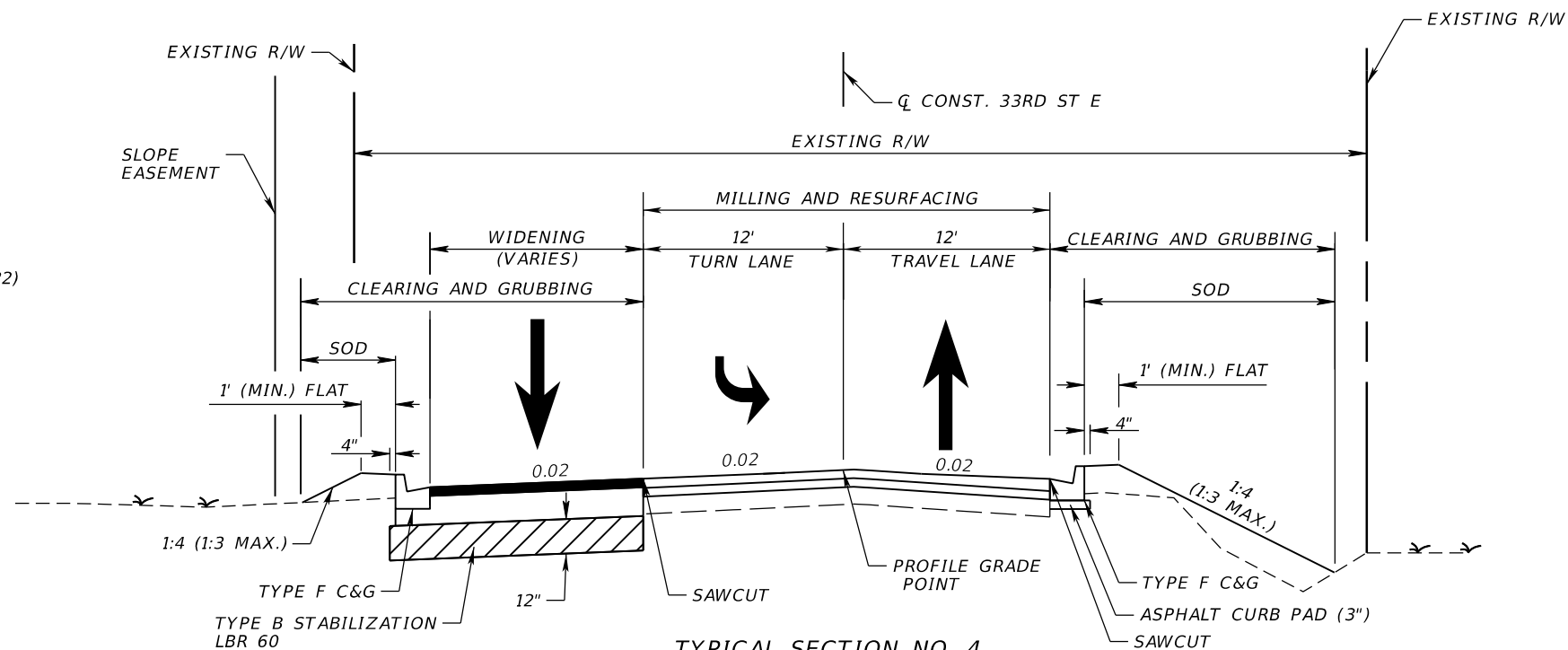
OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (3")
AND FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

TRAVEL/TURN LANE MILLING

MILL EXISTING ASPHALT PAVEMENT (3")

TRAVEL/TURN LANE RESURFACING

TYPE SP OVERBUILD (TRAFFIC C) (THICKNESS VARIES)
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (3")
AND FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)



TYPICAL SECTION NO. 4
33RD STREET EAST
FROM STA. 404+34.00 TO STA. 409+31.26*

DESIGN SPEED = 45 MPH
POSTED SPEED = 40 MPH
*NOTE: MILLING AND RESURFACING ENDS AT STA. 409+50.04.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

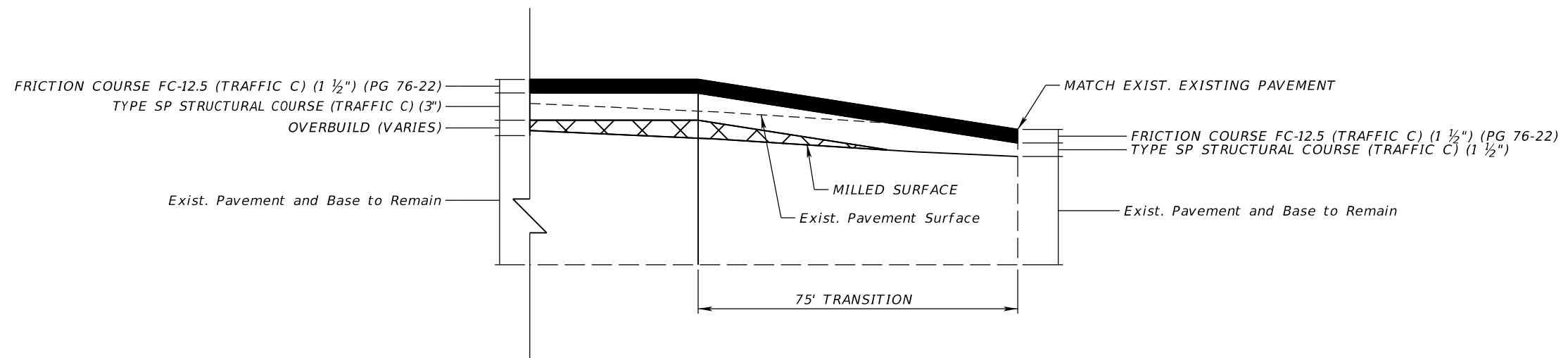
PGA ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208



TYPICAL SECTION (2)

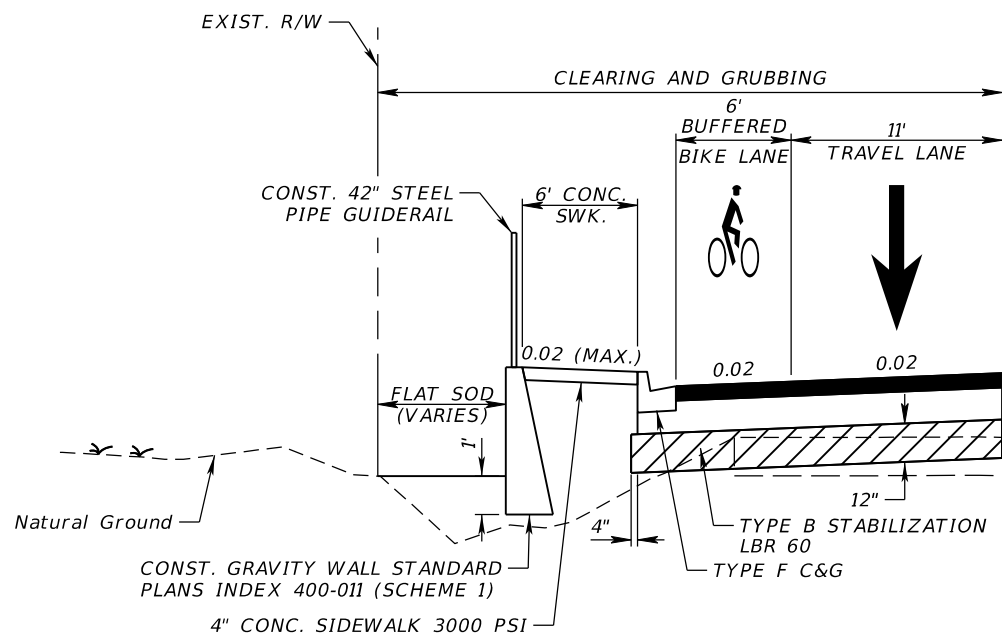
SHEET NO.

33RD AVENUE EAST OVERBUILD CALCS									
STATION	EXIST. SLOPE (%)	PROP. SLOPE (%)	MAX. DEPTH OF OVERBUILD AT OUTSIDE WIDENING POINT (IN.)	WIDTH OF OVERBUILD (FT)	MAX. DEPTH OF OVERBUILD AT PROFILE GRADE POINT (IN.)	EXIST. SLOPE (%)	PROP. SLOPE (%)	MAX. DEPTH OF OVERBUILD AT INSIDE WIDENING POINT (IN.)	WIDTH OF OVERBUILD (FT)
401+34.00	1.57	MATCH EXIST.	0.000	-	0.000	0.84	MATCH EXIST.	0.000	-
401+50.00	1.32	2.00	0.000	-	0.000	1.85	2.00	0.000	-
402+00.00	1.54	2.00	1.116	12.2	1.794	1.62	2.00	1.254	11.8
402+50.00	2.17	2.00	0.900	12.1	0.678	1.86	2.00	0.438	12.2
403+00.00	2.27	2.00	0.600	12.0	0.198	1.74	2.00	0.060	12.3
403+50.00	2.69	2.00	15.678	12.0	14.730	1.01	2.00	13.338	13.4
403+66.00	4.05	MATCH 63RD CROSS SLOPE	24.990	12.2	19.728	1.00	MATCH 63RD CROSS SLOPE	22.314	18
404+34.00	3.12	MATCH 63RD CROSS SLOPE	21.066	29.9	14.514	1.28	MATCH 63RD CROSS SLOPE	14.718	33.4
404+50.00	2.31	2.00	10.338	19.7	3.534	2.16	2.00	6.588	21.0
405+00.00	2.72	2.00	1.566	12.0	0.576	2.21	2.00	0.636	12.0
405+50.00	3.5	2.00	3.462	11.9	1.302	3.47	2.00	3.084	12.0
406+00.00	2.24	2.00	2.508	11.6	2.262	3.18	2.00	3.558	12.0
406+50.00	2.36	2.00	1.680	11.6	1.212	3.36	2.00	2.646	12.0
407+00.00	2.00	2.00	0.000	11.8	0.840	3.05	2.00	2.016	12.0
407+50.00	0.64	2.00	0.000	11.8	1.890	3.49	2.00	3.582	12.0
408+00.00	1.02	2.00	7.200	11.4	3.792	2.07	2.00	3.552	12.0
408+50.00	2.72	2.00	4.434	11.3	3.450	1.66	2.00	2.622	12.0
409+00.00	2.61	2.00	3.546	11.4	1.128	1.45	2.00	0.000	-
409+31.26	1.22	MATCH EXIST.	0.000	-	0.000	2.31	MATCH EXIST.	0.000	-



TYPICAL SECTION DETAIL NO. 1
33RD STREET EAST PAVEMENT FEATHERING

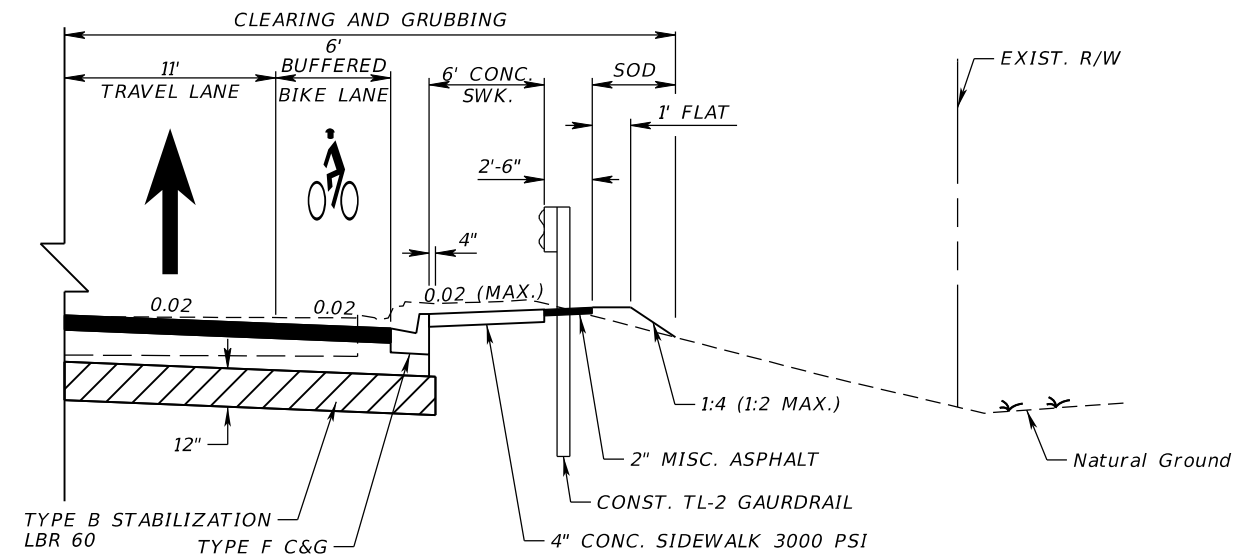
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	 ADAM S. PEREZ, P.E. LICENSE NUMBER 56066 PATEL, GREENE & ASSOCIATES, LLC 12570 TELECOM DRIVE TEMPLE TERRACE, FL 33637	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	TYPICAL SECTION DETAIL (1)		SHEET NO.	
			DESIGNED BY	ASP	03/2023						
			DRAWN BY	JM	PROJECT NO.						
			CHECKED BY	JPH	6107860						



TYPICAL SECTION DETAIL NO. 2
GRAVITY WALL*

- STA. 164+32.96 TO STA. 166+87.86 RT
- STA. 166+10.00 TO STA. 168+65.00 LT
- STA. 167+82.50 TO STA. 169+19.94 RT
- STA. 176+81.79 TO STA. 179+57.00 LT
- STA. 180+63.02 TO STA. 182+62.18 LT
- STA. 183+00.19 TO STA. 184+60.00 LT
- STA. 186+86.10 TO STA. 187+50.00 RT
- STA. 187+00.00 TO STA. 188+53.49 LT
- STA. 188+99.51 TO STA. 189+78.74 LT

*TYPICAL IS TO BE MIRRORED FOR THE EASTBOUND GRAVITY WALL CONSTRUCTION.



TYPICAL SECTION DETAIL NO. 3
GUARDRAIL*

- STA. 193+09.94 TO STA. 193+85.54 RT
- STA. 194+58.68 TO STA. 195+34.27 LT

*TYPICAL IS TO BE MIRRORED FOR THE WESTBOUND GUARDRAIL CONSTRUCTION.

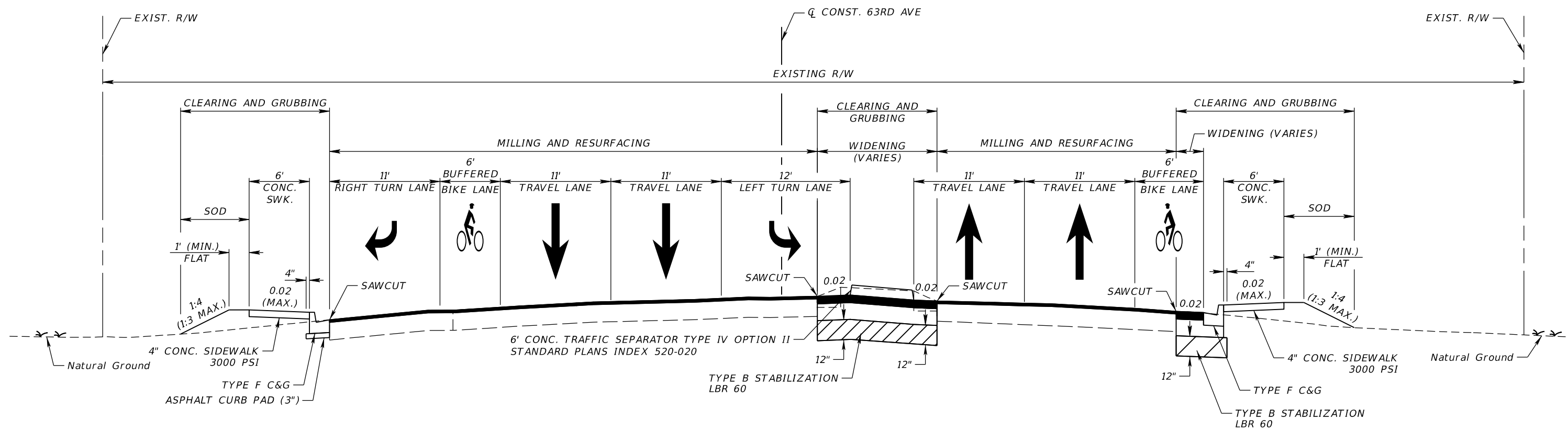
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

TYPICAL SECTION
 DETAIL (2)

SHEET
 NO.





TYPICAL SECTION DETAIL NO. 4
 TRAFFIC SEPARATOR WIDENING
 STA. 159+36.83 TO STA. 161+30.00

TRAVEL / TURN LANE WIDENING
 OPTIONAL BASE GROUP 9 WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (3")
 AND FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

TRAVEL / TURN LANE MILLING
 MILL EXISTING PAVEMENT 1 1/2" (FOR DEPTH)

TRAVEL / TURN LANE RESURFACING
 FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)


DESIGN SPEED = 40 MPH
 POSTED SPEED = 40 MPH

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	 ADAM S. PEREZ, P.E. LICENSE NUMBER 56066 PATEL, GREENE & ASSOCIATES, LLC 12570 TELECOM DRIVE TEMPLE TERRACE, FL 33637	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	TYPICAL SECTION DETAIL (3)	SHEET NO.
	DESIGNED BY		ASP		03/2023				
	DRAWN BY		JM		PROJECT NO.				
	CHECKED BY		JPH		6107860				

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

QUANTITY	STR. NO.	CHAIN	STATION	SIDE	DESCRIPTION	BARRELS	MANHOLES				STRAIGHT CONC. ENDWALL		MITERED END SECTION					REMARKS
							P-7	J-7	P-8	J-8	ROUND SHAPE		ROUND SHAPE					
							<10'	<10'	<10'	<10'	0 DEG 18"	45 DEG 24"	CD 18"	CD 24"	CD 30"	CD 36"	CD 42"	
P	S-1A	Q CONST. 63RD AVE. E	160+25.00	LT	INLET													TYPE I
F																		
P	S-1	Q CONST. 63RD AVE. E	161+57.74	RT	PIPE, INLET, PIPE	1												W/ PAVT., CONC. JACKET
F																		
P	S-2	Q CONST. 63RD AVE. E	161+59.92	RT	INLET, PIPE	1												
F																		
P	S-3	Q CONST. 63RD AVE. E	161+59.92	LT	INLET, PIPE	1												
F																		
P	S-4	Q CONST. 63RD AVE. E	163+29.00	RT	INLET, PIPE	1												
F																		
P	S-5	Q CONST. 63RD AVE. E	163+75.50	LT	INLET, PIPE	1												
F																		
P	S-10	Q CONST. 63RD AVE. E	164+76.10	LT	ENDWALL, PIPE	1					1							
F																		
P	S-6	Q CONST. 63RD AVE. E	164+52.00	RT	MH, PIPE	1												BOT. OFFSET LT
F																		
P	S-11	Q CONST. 63RD AVE. E	164+89.00	LT	MH, PIPE	1												
F																		
P	S-7	Q CONST. 63RD AVE. E	164+66.77	RT	INLET, PIPE	1												
F																		
P	S-9	Q CONST. 63RD AVE. E	164+71.57	LT	INLET, PIPE	1												
F																		
P	S-8	Q CONST. 63RD AVE. E	164+71.57	LT/RT	MH, PIPE	1					1							6'X4' J-BOT.
F																		
P	S-12	Q CONST. 63RD AVE. E	166+18.00	RT	ENDWALL, PIPE	1												SEE GRAVITY WALL PIPE OPENING DETAILS
F																		
P	S-13	Q CONST. 63RD AVE. E	166+18.00	RT	MH, PIPE	1					1							5'X4' J-BOT. OFFSET LT
F																		
P	S-14	Q CONST. 63RD AVE. E	164+56.76	LT	ENDWALL, PIPE	1												SEE GRAVITY WALL PIPE OPENING DETAILS
F																		
P	S-15	Q CONST. 63RD AVE. E	167+56.76	LT	MH, PIPE	1					1							4'X4' J-BOT. OFFSET RT
F																		
P	S-16	Q CONST. 63RD AVE. E	167+60.00	LT/RT	MH, PIPE	1					1							6'X4' J-BOT.
F																		
P	S-17	Q CONST. 63RD AVE. E	168+50.00	RT	ENDWALL, PIPE	1												SEE GRAVITY WALL PIPE OPENING DETAILS
F																		
P	S-18	Q CONST. 63RD AVE. E	168+50.00	RT	MH, PIPE	1					1							5'X4' J-BOT. OFFSET LT
F																		
P	S-19	Q CONST. 63RD AVE. E	169+50.00	RT	INLET, PIPE	1												
F																		
P	S-20	Q CONST. 63RD AVE. E	164+52.00	RT	MH, PIPE	1					1							
F																		
P	S-21	Q CONST. 63RD AVE. E	169+91.15	LT	MH, PIPE	1					1							
F																		
P	S-22	NOT USED																
F																		
P	S-23	Q CONST. 63RD AVE. E	170+35.00	RT	INLET, PIPE	1												
F																		
P	S-24	Q CONST. 63RD AVE. E	170+35.00	RT	MH, PIPE	1					1							5'X4' J-BOT. OFFSET LT
F																		
P	S-25	Q CONST. 63RD AVE. E	170+50.00	LT/RT	MH, PIPE	1					1							6'X4' J-BOT.
F																		
P	S-26	Q CONST. 63RD AVE. E	170+50.00	RT	INLET, PIPE	1												
F																		
P	S-27	Q CONST. 63RD AVE. E	170+50.00	LT	INLET, PIPE	1												
F																		
P	S-28	Q CONST. 63RD AVE. E	171+00.64	LT	MH, PIPE	1					1							
F																		
P	S-29	Q CONST. 63RD AVE. E	171+48.91	LT	INLET, PIPE	1												
F																		
P	S-30	Q CONST. 63RD AVE. E	171+50.00	LT	MH, PIPE	1					1							5'X4' J-BOT. OFFSET RT
F																		
SHEET TOTALS -						PLAN QUANTITY												
						FINAL QUANTITY			5	8		1						

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				RDU	03/2023
				ZK	PROJECT NO.
				TAP	6107860



RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240



PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208


*SUMMARY OF
 DRAINAGE STRUCTURES (1B)*

SHEET NO.

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

QUANTITY	STR. NO.	CHAIN	STATION	SIDE	DESCRIPTION	BARRELS	MANHOLES				STRAIGHT CONC. ENDWALL		MITERED END SECTION					REMARKS	
							P-7	J-7	P-8	J-8	ROUND SHAPE		ROUND SHAPE						
							<10'	<10'	<10'	<10'	0 DEG 18"	45 DEG 24"	CD 18"	CD 24"	CD 30"	CD 36"	CD 42"		
P	S-31	Q CONST. 63RD AVE. E	171+67.00	RT	INLET, PIPE	1													
F																			
P	S-32	Q CONST. 63RD AVE. E	172+09.61	RT	MH, PIPE	1	1												
F																			
P	S-33	Q CONST. 63RD AVE. E	172+10.16	RT	MH, PIPE	1												5'X4' J-BOT. OFFSET LT	
F																			
P	S-34	Q CONST. 63RD AVE. E	173+08.00	RT	MH, PIPE	1												5'X4' J-BOT. OFFSET LT	
F																			
P	S-35	Q CONST. 63RD AVE. E	173+06.65	RT	MES, PIPE	1							1					1:2 SLOPE	
F																			
P	S-36	Q CONST. 63RD AVE. E	173+50.00	LT/RT	MH, PIPE	1												4'X4' J-BOT.	
F																			
P	S-37	Q CONST. 63RD AVE. E	174+31.20	LT	INLET, PIPE	1													
F																			
P	S-38	Q CONST. 63RD AVE. E	174+31.20	LT	MH, PIPE	1												5'X4' J-BOT. OFFSET RT	
F																			
P	S-38A	Q CONST. 63RD AVE. E	174+51.30	LT	MH, PIPE	1	1												
F																			
P	S-39	Q CONST. 63RD AVE. E	175+59.08	RT	INLET, PIPE	1												5'X5' J-BOT. OFFSET BK/RT	
F																			
P	S-40	Q CONST. 63RD AVE. E	175+59.53	LT/RT	MH, PIPE	1												5'X5' J-BOT. OFFSET BK	
F																			
P	S-41	Q CONST. 63RD AVE. E	175+59.97	LT	INLET, PIPE	1													
F																			
P	S-42	Q CONST. 63RD AVE. E	176+30.00	RT	MH, PIPES	1		1										13'X6' J-BOT. CONTROL STRUCT.	
F																			
P	S-43	Q CONST. 63RD AVE. E	176+40.50	LT	PIPE, MH, PIPE	1												5'X4' J-BOT. OFFSET RT, CONC. JACKET	
F																			
P	S-44	NOT USED																	
F																			
P	S-45	Q CONST. 63RD AVE. E	178+80.00	RT	INLET, PIPE	1													
F																			
P	S-46	Q CONST. 63RD AVE. E	178+80.00	LT	INLET, PIPE	1													
F																			
P	S-47	Q CONST. 63RD AVE. E	179+00.00	LT	ENDWALL, PIPE	1												SEE GRAVITY WALL PIPE OPENING DETAILS	
F																			
P	S-48	Q CONST. 63RD AVE. E	179+00.00	RT	MH, PIPE	1												5'X4' J-BOT. OFFSET LT	
F																			
P	S-49	Q CONST. 63RD AVE. E	179+00.00	LT	MH, PIPE	1												5'X4' J-BOT. OFFSET RT	
F																			
P	S-50	Q CONST. 63RD AVE. E	180+77.00	LT	INLET, PIPE	1												5'X4' J-BOT. OFFSET RT	
F																			
P	S-51	Q CONST. 63RD AVE. E	180+77.00	RT	INLET, PIPE	1												5'X4' J-BOT. OFFSET LT	
F																			
P	S-52	Q CONST. 63RD AVE. E	182+15.49	RT	MH, PIPE	1												5'X4' J-BOT. OFFSET LT	
F																			
P	S-53	Q CONST. 63RD AVE. E	182+21.00	LT	ENDWALL, PIPE	1												SEE GRAVITY WALL PIPE OPENING DETAILS	
F																			
P	S-54	Q CONST. 63RD AVE. E	182+21.00	LT	MH, PIPE	1												5'X4' J-BOT. OFFSET RT	
F																			
P	S-55	Q CONST. 63RD AVE. E	183+80.00	RT	INLET, PIPE	1												5'X4' J-BOT. OFFSET LT	
F																			
P	S-56	Q CONST. 63RD AVE. E	184+10.00	LT	INLET, PIPE	1												5'X4' J-BOT. OFFSET RT	
F																			
P	S-57	Q CONST. 63RD AVE. E	184+10.00	LT	INLET, PIPE	1												5'X4' J-BOT. OFFSET LT	
F																			
P	S-58	NOT USED																	
F																			
P	S-59	Q CONST. 63RD AVE. E	184+80.00	RT	INLET, PIPE	1												5'X4' J-BOT. OFFSET LT	
F																			
P	S-60	Q CONST. 63RD AVE. E	185+00.00	LT	ENDWALL, PIPE	1													
F																			
SHEET TOTALS -						PLAN QUANTITY	2	1		10	1								
						FINAL QUANTITY													

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				RDU	03/2023
				ZK	PROJECT NO.
				TAP	6107860



RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240



PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208


**SUMMARY OF
DRAINAGE STRUCTURES (2B)**

SHEET NO.

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

QUANTITY	STR. NO.	CHAIN	STATION	SIDE	DESCRIPTION	BARRELS	MANHOLES				STRAIGHT CONC. ENDWALL		MITERED END SECTION					REMARKS	
							P-7	J-7	P-8	J-8	ROUND SHAPE		ROUND SHAPE						
							<10'	<10'	<10'	<10'	0 DEG 18"	45 DEG 24"	CD 18"	CD 24"	CD 30"	CD 36"	CD 42"		
P	S-61	Q CONST. 63RD AVE. E	185+00.00	LT	MH, PIPE	1				1									5' X4' J-BOT. OFFSET RT
F																			
P	S-62	Q CONST. 63RD AVE. E	185+38.18	RT	MH, PIPE	1				1									5' X4' J-BOT. OFFSET LT
F																			
P	S-63	Q CONST. 63RD AVE. E	185+90.46	RT	MH, PIPE	1				1									5' X4' J-BOT. OFFSET RT
F																			
P		S-64 NOT USED																	
F																			
P	S-65	Q CONST. 63RD AVE. E	186+42.00	LT	MH, PIPE	1				1									5' X4' J-BOT. OFFSET RT
F																			
P	S-66	Q CONST. 63RD AVE. E	187+75.00	LT	ENDWALL, PIPE	1													SEE GRAVITY WALL PIPE OPENING DETAILS
F																			
P	S-67	Q CONST. 63RD AVE. E	187+75.00	LT	MH, PIPE	1				1									5' X4' J-BOT. OFFSET RT
F																			
P	S-68	Q CONST. 63RD AVE. E	188+16.96	LT	PIPE, MH, PIPE	1				1									5' X4' J-BOT. OFFSET RT
F																			
P	S-69	Q CONST. 63RD AVE. E	188+89.00	RT	INLET, PIPE	1													5' X4' J-BOT. OFFSET LT
F																			
P	S-70	Q CONST. 63RD AVE. E	189+09.50	LT	INLET, PIPE	1													5' X4' J-BOT. OFFSET RT
F																			
P	S-71	Q CONST. 63RD AVE. E	189+60.98	LT	MH, PIPE	1				1									5' X4' J-BOT. OFFSET LT
F																			
P	S-72	Q CONST. 63RD AVE. E	189+60.98	LT	ENDWALL, PIPE	1													SEE GRAVITY WALL PIPE OPENING DETAILS
F																			
P	S-73	Q CONST. 63RD AVE. E	190+47.40	LT	PIPE, MH, PIPE	1				1									5' X4' J-BOT. OFFSET LT
F																			
P	S-74	Q CONST. 63RD AVE. E	191+49.13	LT	INLET, PIPE	1													5' X4' J-BOT. OFFSET RT
F																			
P	S-75	Q CONST. 63RD AVE. E	191+90.25	RT	INLET, PIPE	1													5' X4' J-BOT. OFFSET LT
F																			
P	S-76	Q CONST. 63RD AVE. E	192+08.17	LT	PIPE, MH, PIPE	1				1									5' X4' J-BOT. OFFSET LT, CONC. JACKET
F																			
P	S-76A	Q CONST. 63RD AVE. E	192+30.00	RT	INLET, PIPE	1													5' X4' J-BOT. OFFSET LT, CONC. JACKET
F																			
P	S-77	Q CONST. 63RD AVE. E	193+03.19	RT	PIPE, MH, PIPE	1				1									5' X4' J-BOT. OFFSET LT, CONC. JACKET
F																			
P	S-78	Q CONST. 63RD AVE. E	193+79.60	LT	MH					1									5' X4' J-BOT. OFFSET RT
F																			
P		S-79 THRU S-101 NOT USED																	
F																			
P	S-102	Q CONST. 63RD AVE. E	197+15.00	LT	MH					1									5' DIA. J-BOT. OFFSET RT
F																			
P	S-103	Q CONST. 63RD AVE. E	197+50.00	RT	MH, PIPES	1		1											6' X10' J-BOT. CONTROL STRUCT.
F																			
P	S-104	Q CONST. 63RD AVE. E	197+70.00	LT	MH, PIPE	1				1									5' DIA. J-BOT. OFFSET LT
F																			
P	S-105	Q CONST. 63RD AVE. E	197+80.79	LT	INLET, PIPE	1													
F																			
P	S-106	Q CONST. 63RD AVE. E	197+81.23	RT	INLET, PIPE	1													5' X4' J-BOT. OFFSET RT
F																			
P	S-107	Q CONST. 63RD AVE. E	199+67.55	RT	MH, PIPE	1				1									5' X5' J-BOT. OFFSET BK
F																			
P	S-108	Q CONST. 63RD AVE. E	199+94.84	LT	INLET, PIPE	1													
F																			
P		S-109 NOT USED																	
F																			
P	S-110	Q CONST. 63RD AVE. E	200+01.15	RT	INLET, PIPE	1													5' X4' J-BOT. OFFSET RT
F																			
P	S-111	Q CONST. 63RD AVE. E	200+20.00	RT	INLET, PIPE	1													5' X4' J-BOT. OFFSET LT
F																			
P	S-112	Q CONST. 63RD AVE. E	201+00.00	LT	MH, PIPE	1				1									4' X4' J-BOT. OFFSET LT
F																			
SHEET TOTALS -						PLAN QUANTITY													
						FINAL QUANTITY		1		15									

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				RDU	03/2023
				ZK	PROJECT NO.
				TAP	6107860



RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240



PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208


**SUMMARY OF
 DRAINAGE STRUCTURES (3B)**

SHEET NO.

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

QUANTITY	STR. NO.	CHAIN	STATION	SIDE	DESCRIPTION	BARRELS	MANHOLES				STRAIGHT CONC. ENDWALL		MITERED END SECTION					REMARKS
							P-7	J-7	P-8	J-8	ROUND SHAPE		ROUND SHAPE					
							<10'	<10'	<10'	<10'	0 DEG 18"	45 DEG 24"	CD 18"	CD 24"	CD 30"	CD 36"	CD 42"	
P	S-113	Q CONST. 63RD AVE. E	202+00.00	LT	INLET, PIPE	1												
F																		
P		S-114 NOT USED																
F																		
P	S-115	Q CONST. 63RD AVE. E	202+00.00	RT	INLET, PIPE	1												5' X4' J-BOT. OFFSET LT
F																		
P	S-116	Q CONST. 63RD AVE. E	202+50.00	RT	INLET, PIPE	1												5' X4' J-BOT. OFFSET LT
F																		
P	S-117	Q CONST. 63RD AVE. E	203+50.00	LT	MH, PIPE	1												4' X4' J-BOT. OFFSET LT
F																		
P	S-118	Q CONST. 63RD AVE. E	203+50.00	RT	INLET, PIPE	1												4' X4' J-BOT. OFFSET LT
F																		
P	S-119	Q CONST. 63RD AVE. E	204+34.70	RT	INLET, PIPE	1												4' X4' J-BOT. OFFSET LT
F																		
P	S-120	Q CONST. 63RD AVE. E	205+05.00	RT	INLET, PIPE	1												6' X4' J-BOT. OFFSET LT
F																		
P		S-121 NOT USED																
F																		
P	S-122	Q CONST. 63RD AVE. E	206+90.00	LT	PIPE, MH, PIPE	1												6' X4' J-BOT.
F																		
P	S-123	Q CONST. 63RD AVE. E	208+70.00	LT	ENDWALL, PIPE	1												
F																		
P	S-124	Q CONST. 63RD AVE. E	208+70.00	LT	MH, PIPE	1												6' X4' J-BOT.
F																		
P		S-125 NOT USED																
F																		
P	S-126	Q CONST. 63RD AVE. E	208+70.00	RT	INLET, PIPE	1												
F																		
P	S-127	Q CONST. 63RD AVE. E	208+85.00	LT	INLET, PIPE	1												
F																		
P		S-128 NOT USED																
F																		
P	S-129	Q CONST. 63RD AVE. E	208+85.00	RT	INLET, PIPE	1												6' X4' J-BOT. OFFSET LT
F																		
P	S-130	Q CONST. 63RD AVE. E	210+04.42	RT	INLET, PIPE	1												
F																		
P		S-131 THRU S-199 NOT USED																
F																		
P	S-200	Q CONST. 28TH ST. E	500+63.41	LT	INLET, PIPE	1												
F																		
P	S-201	Q CONST. 28TH ST. E	500+66.77	RT	INLET, PIPE	1												
F																		
P	S-202	Q CONST. 31ST ST. E	689+01.67	RT	INLET, PIPE	1												CONTROL STR. WIERS, ORIFICE & SKIMMER
F																		
P	S-202A	Q CONST. 31ST ST. E	688+33.84	RT	MES								1					1:2 SLOPE
F																		
P	S-203	Q CONST. 31ST ST. E	694+16.65	RT	MES												1	1:2 SLOPE
F																		
P	S-204	Q CONST. 31ST ST. E	694+91.36	RT	MH, PIPE	1												5' DIA. J-BOT. OFFSET BK
F																		
P	S-205	Q CONST. 31ST ST. E	697+00.00	RT	MH, PIPE	1												5' X4' J-BOT.
F																		
P		S-206 NOT USED																
F																		
P	S-206A	Q CONST. 33RD ST. E	402+50.00	LT	INLET, PIPE	1												
F																		
P	S-207	Q CONST. 33RD ST. E	402+65.00	RT	INLET, PIPE	1												W/ PAVT. AND SLOT
F																		
P	S-208	Q CONST. 33RD ST. E	403+00.00	RT	INLET, PIPE	1												
F																		
P	S-209	Q CONST. 33RD ST. E	403+00.00	LT	INLET, PIPE	1												
F																		
SHEET TOTALS -						PLAN QUANTITY												
						FINAL QUANTITY				5	1			1				1

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	03/2023
			DRAWN BY	ZK	PROJECT NO.
			CHECKED BY	TAP	6107860



RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240



PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

**SUMMARY OF
 DRAINAGE STRUCTURES (4B)**


SHEET NO.

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

QUANTITY	STR. NO.	CHAIN	STATION	SIDE	DESCRIPTION	BARRELS	MANHOLES				STRAIGHT CONC. ENDWALL		MITERED END SECTION					REMARKS	
							P-7	J-7	P-8	J-8	ROUND SHAPE		ROUND SHAPE						
							<10'	<10'	<10'	<10'	0 DEG	45 DEG	CD	CD	CD	CD	CD		
											18"	24"	18"	24"	30"	36"	42"		
P	S-210	Q CONST. 33RD ST. E	404+80.00	RT	INLET, PIPE	1													
F																			
P	S-211	Q CONST. 33RD ST. E	404+80.00	LT	INLET, PIPE	1													
F																			
P	S-212	Q CONST. 33RD ST. E	405+14.76	RT	MES, PIPE	1						1							1:2 SLOPE
F																			
P	S-213	Q CONST. 33RD ST. E	407+00.00	LT	INLET, PIPE	1													
F																			
P	S-214	Q CONST. 33RD ST. E	407+00.00	RT	INLET														TYPE II
F																			
P	S-215	Q CONST. 33RD ST. E	408+18.00	LT	INLET, PIPE	1													CONC. JACKET
F																			
P	S-216	Q CONST. 33RD ST. E	409+32.00	RT	INLET														TYPE II
F																			
P	S-217	THRU S-299 NOT USED																	
F																			
P	S-300	Q CONST. SMF 2B	1003+51.17	LT	MES									1					1:2 SLOPE
F																			
P	S-301	Q CONST. SMF 2B	1003+00.91	LT/RT	MH, PIPE	1													5' DIA. J-BOT. OFFSET AH
F																			
P	S-302	Q CONST. PROSPECT RD.	794+79.17	RT	MH, PIPE	1													5'X5' J-BOT.
F																			
P	S-303	Q CONST. PROSPECT RD.	797+15.00	RT	MH, PIPE	1													4'X4' J-BOT.
F																			
P	S-304	Q CONST. PROSPECT RD.	800+20.00	LT	INLET, PIPE	1													W. PAVT. AND DBL. SLOT
F																			
P	S-305	Q CONST. PROSPECT RD.	800+20.00	RT	MH, PIPE	1													5'X5' J-BOT.
F																			
P	S-306	Q CONST. PROSPECT RD.	800+20.00	RT	INLET, PIPE	1													W. PAVT. AND DBL. SLOT
F																			
P	S-307	Q CONST. FPC	303+86.00	RT	MES, PIPE	1								1					1:4 SLOPE
F																			
P	S-308	Q CONST. FPC	304+07.00	RT	MANHOLE, PIPE	1													1
F																			
P	S-309	Q CONST. FPC	306+87.00	RT	MANHOLE, PIPE	1													1
F																			
P	S-310	Q CONST. FPC	307+24.29	RT	MES									1					1:4 SLOPE
F																			
P																			
F																			
P																			
F																			
P																			
F																			
P																			
F																			
P																			
F																			
P																			
F																			
P																			
F																			
SHEET TOTALS -						PLAN QUANTITY								1		2		1	
						FINAL QUANTITY													
GRAND TOTALS -						PLAN QUANTITY	2	2	7	42	2	1	1	2	2	1	1		
						FINAL QUANTITY													

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NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	03/2023
			DRAWN BY	ZK	PROJECT NO.
			CHECKED BY	TAP	6107860



RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240





PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

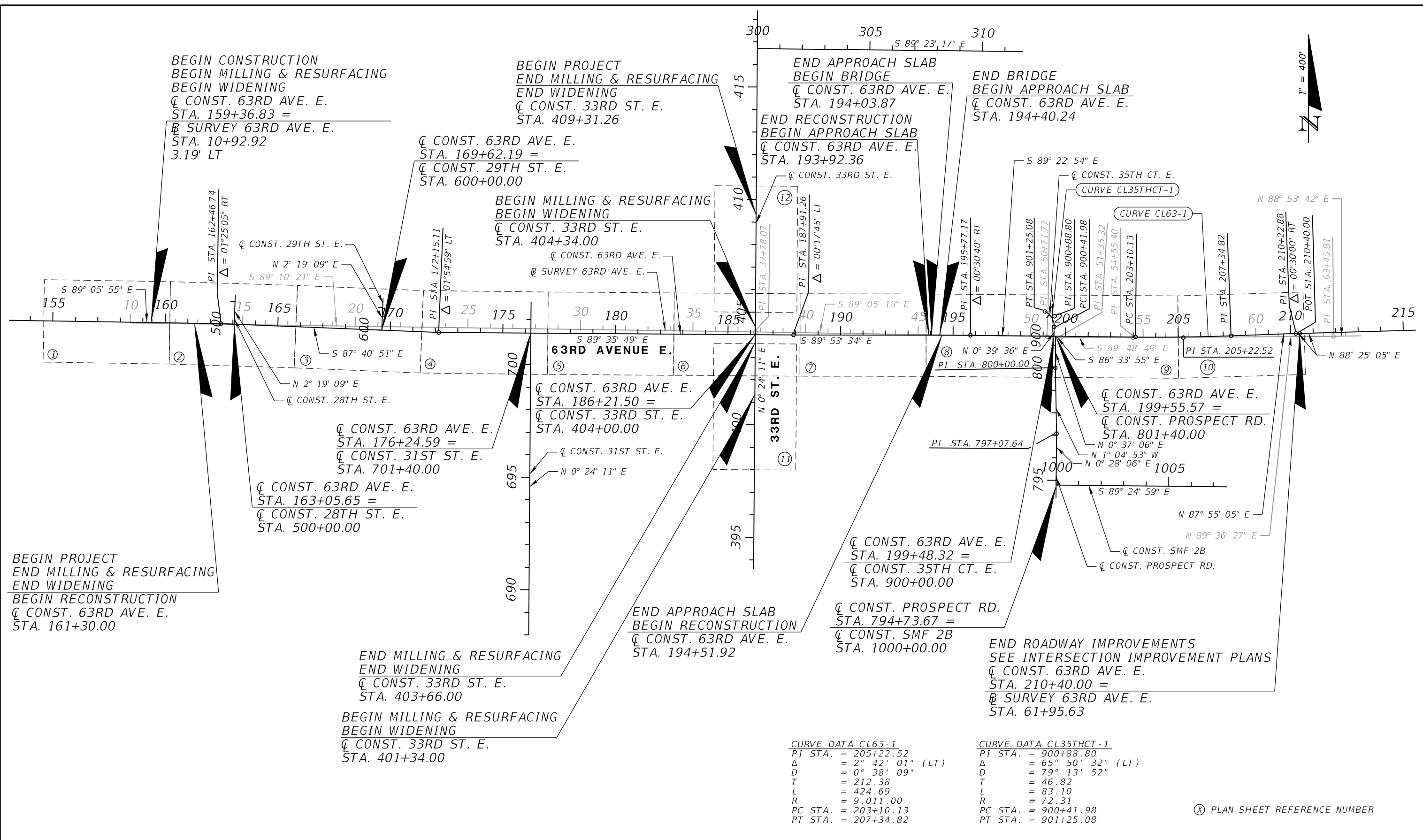
**SUMMARY OF
 DRAINAGE STRUCTURES (5B)**

SHEET NO.

STRUCTURE	SIZE (inches)	MATERIALS	PLOTTED	AS BUILT	REMARKS
ALL PIPES	12"	PVC, ASTM F-949	X		100-YEAR DSL
ALL PIPES	15"	RCP, CLASS II	X		100-YEAR DSL
ALL PIPES	12" X 18"	ERCP, CLASS II	X		100-YEAR DSL
ALL PIPES	14" X 23"	ERCP, CLASS II	X		100-YEAR DSL
ALL PIPES	18"	RCP, CLASS II	X		100-YEAR DSL
ALL PIPES	24"	RCP, CLASS II	X		100-YEAR DSL
ALL PIPES	29" X 45"	ERCP, CLASS II	X		100-YEAR DSL
ALL PIPES	30"	RCP, CLASS II	X		100-YEAR DSL
ALL PIPES	36"	RCP, CLASS II	X		100-YEAR DSL
ALL PIPES	42"	RCP, CLASS II	X		100-YEAR DSL

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

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	 RICHARD D. UPTGRAFF, P.E. LICENSE NUMBER 58789 PATEL, GREENE & ASSOCIATES, LLC 7020 PROFESSIONAL PARKWAY E SUITE 104 SARASOTA, FL 34240	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	<i>OPTIONAL MATERIALS TABULATION</i>	SHEET NO.
			DESIGNED BY	RDU	03/2023				
			DRAWN BY	ZK	PROJECT NO.				
			CHECKED BY	TAP	6107860				



CURVE DATA CL63-1
 PI STA. = 205+22.52
 Δ = 2° 42' 01" (LT)
 D = 0° 38' 09"
 T = 212.38
 L = 424.69
 R = 9,011.00
 PC STA. = 203+10.13
 PT STA. = 207+34.82

CURVE DATA CL35THCT-1
 PI STA. = 900+88.80
 Δ = 65° 50' 32" (LT)
 D = 79° 13' 52"
 T = 46.82
 L = 83.10
 R = 72.31
 PC STA. = 900+41.98
 PT STA. = 901+25.08

⊗ PLAN SHEET REFERENCE NUMBER

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
	DESIGNED BY			ASP	03/2023
	DRAWN BY			JM	PROJECT NO.
	CHECKED BY			JPH	6107860

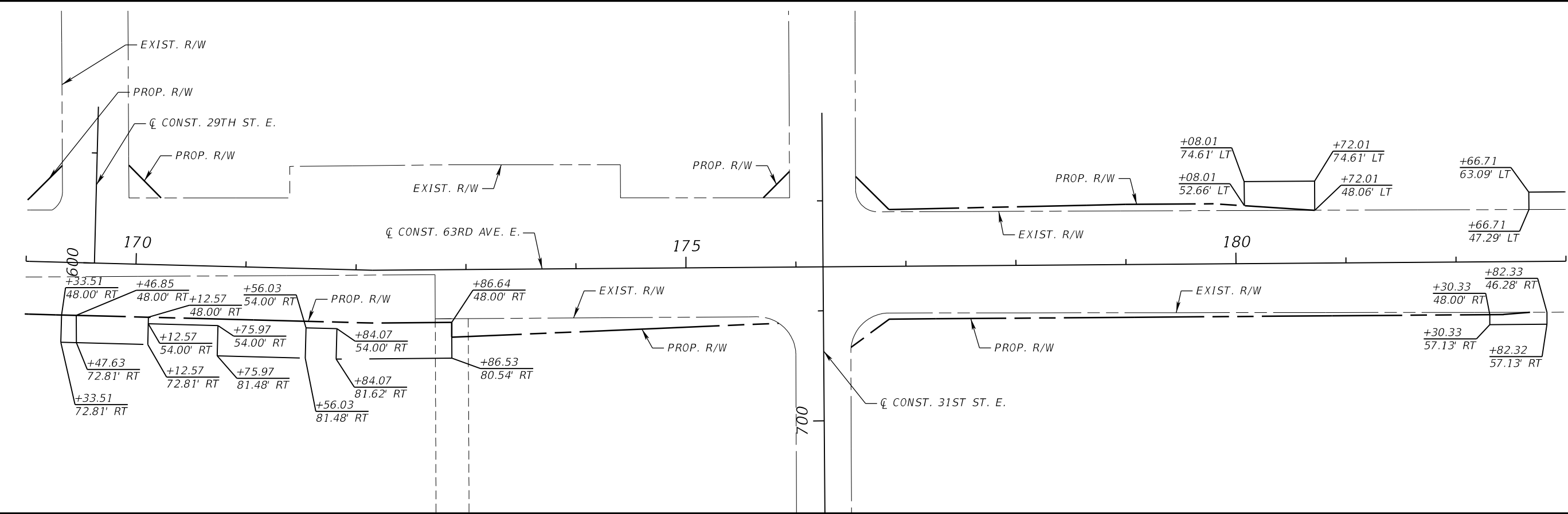
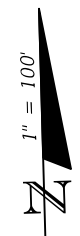
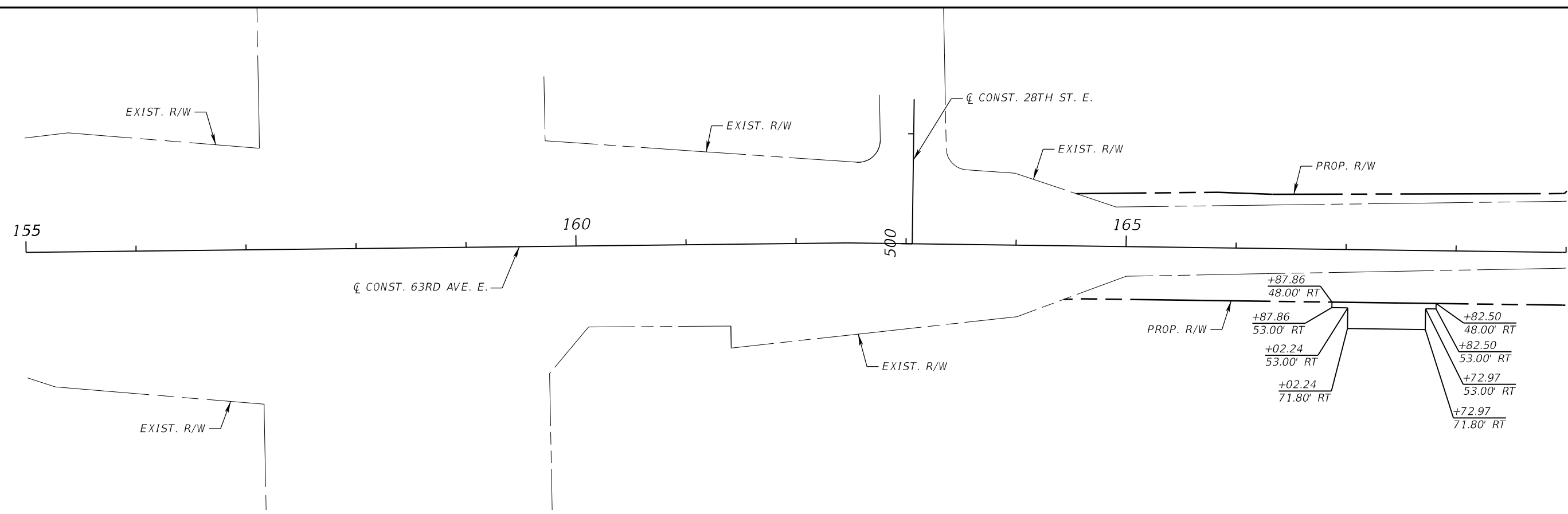
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

PROJECT LAYOUT

SHEET NO.

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NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

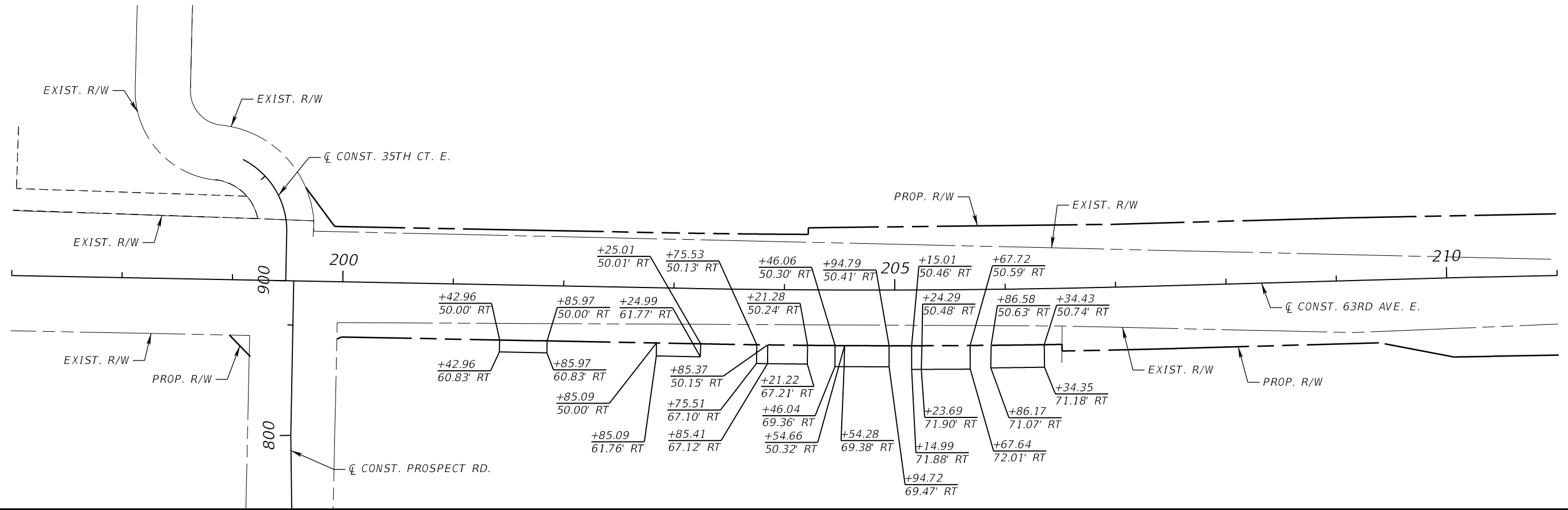
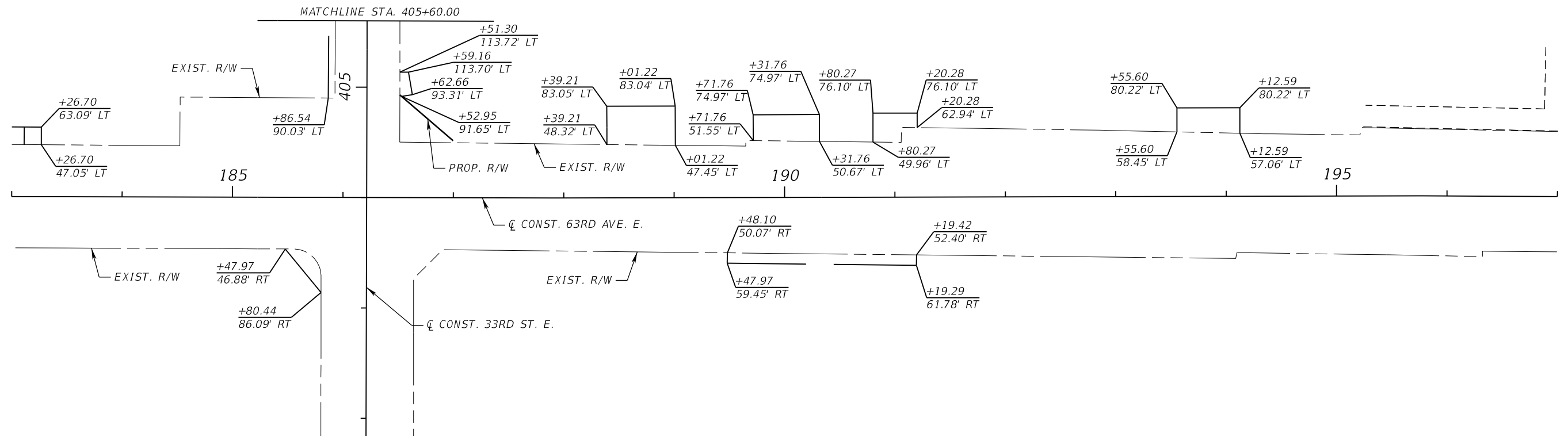
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
 FLORIDA ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

EASEMENT LAYOUT (1)

SHEET NO.

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NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

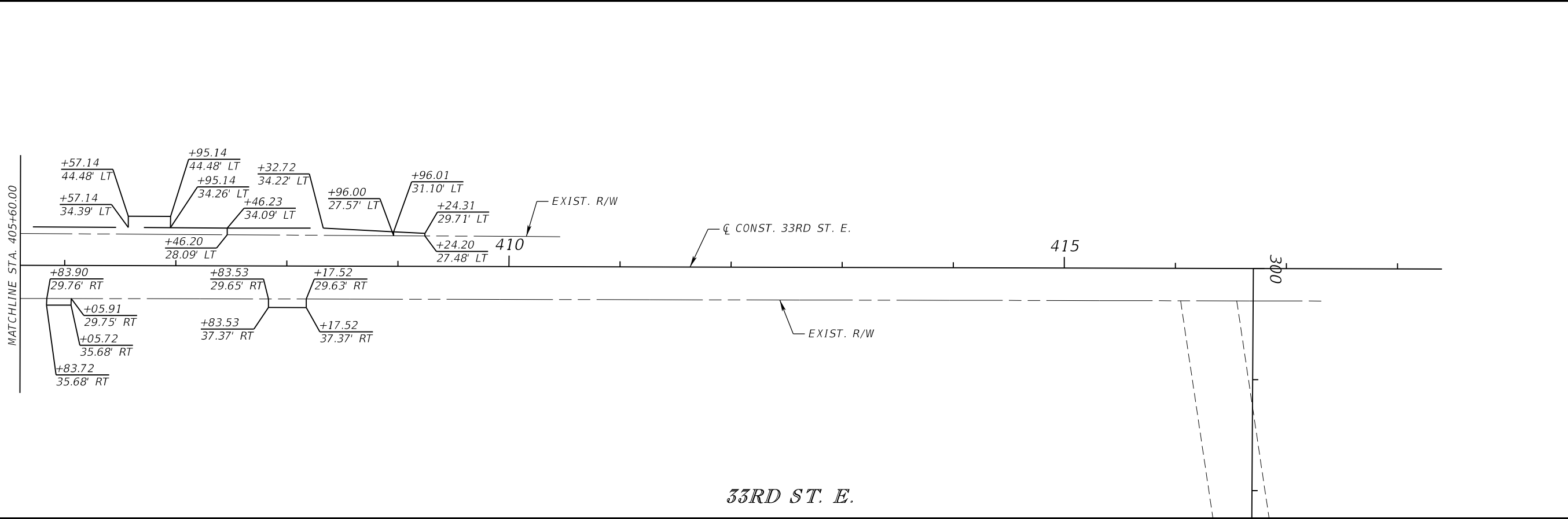
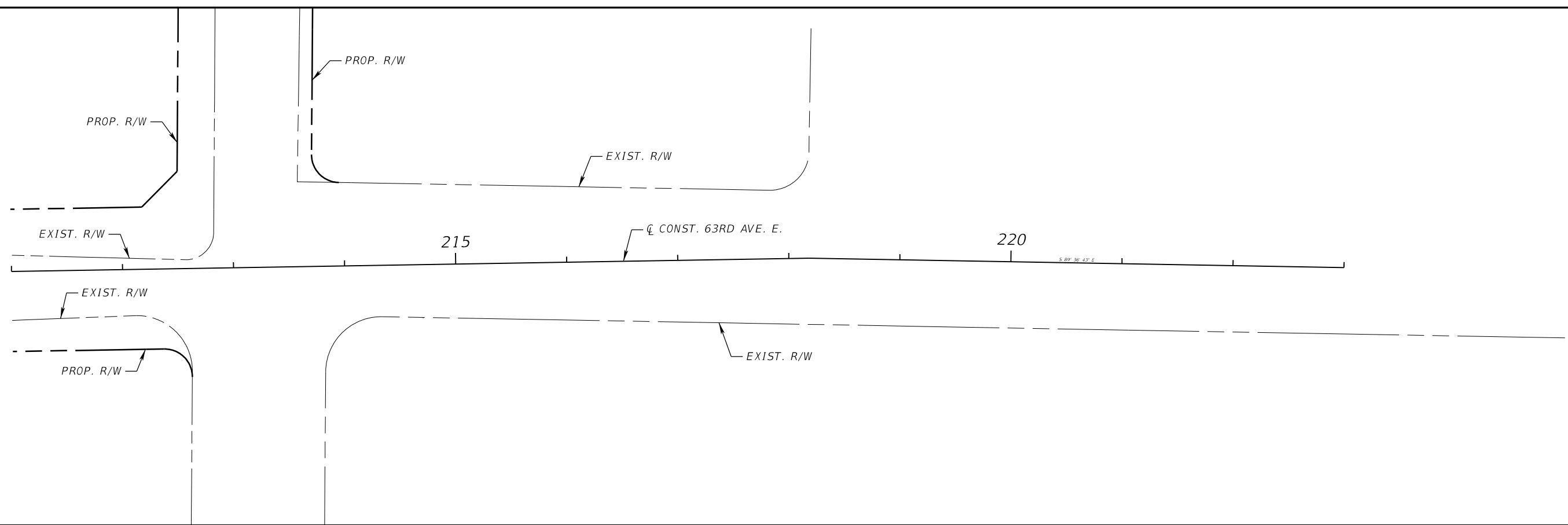
PGA ADAM S. PEREZ, P.E.
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 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

EASEMENT LAYOUT (2)

SHEET NO.

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33RD ST. E.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860



ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637



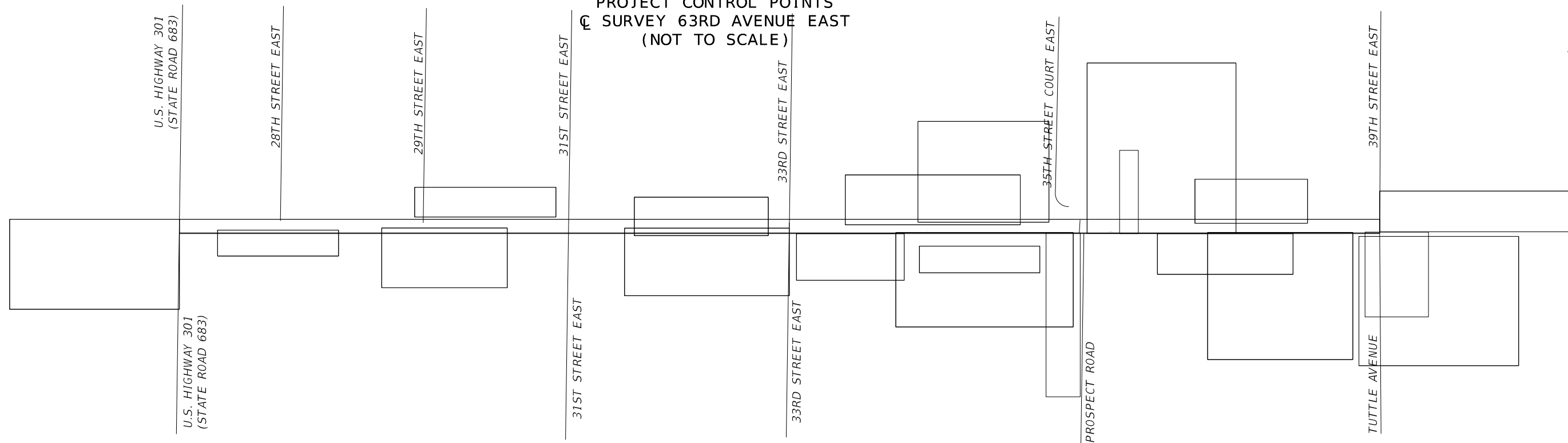
PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

EASEMENT LAYOUT (3)

SHEET NO.

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

PROJECT CONTROL POINTS
 C SURVEY 63RD AVENUE EAST
 (NOT TO SCALE)



VERTICAL CONTROL

CONTROL POINTS	CL STATION	OFFSET	ELEVATION (Z)	DESCRIPTION	NORTHING (Y)	EASTING (X)	LATITUDE	LONGITUDE	SCALE FACTOR
CP-A	11+74.29	46.89' RT	20.08'	IRON ROD AND CAP SET LB#7915	1125486.80'	484277.63'	27°25'44.4012	82°31'47.6554"	0.99997505
CP-B	20+71.14	26.13' RT	18.32'	IRON ROD AND CAP SET LB#7915	1125546.85	485175.43'	27°25'45.0337"	82°31'37.6946"	0.99997469
CP-C	24+93.34	18.13' RT	17.86'	IRON ROD AND CAP SET LB#7915	1125496.50'	485596.96'	27°25'44.5528"	82°31'33.0142"	0.99997453
CP-D	30+73.11	44.34' RT	17.04'	IRON ROD AND CAP SET LB#7915	1125461.91'	486176.28'	27°25'44.2345"	82°31'26.5833"	0.99997430
CP-E	38+11.42	24.76' RT	15.63'	IRON ROD AND CAP SET LB#7915	1125470.78'	486914.76'	27°25'44.3530"	82°31'18.3882"	0.99997402
CP-F	43+72.09	72.69' RT	15.77'	IRON ROD AND CAP SET LB#7915	1125413.94'	487474.60'	27°25'43.8133"	82°31'12.1726"	0.99997380
CP-G	48+30.25	32.10' LT	15.99'	IRON ROD AND CAP SET LB#7915	1125511.64'	487934.37'	27°25'44.7999"	82°31'07.0747"	0.99997362
CP-H	49+60.84	46.00' LT	14.93'	IRON ROD AND CAP SET LB#7915	1125523.24'	488065.16'	27°25'44.9201"	82°31'05.6237"	0.99997357
CP-I	56+26.96	46.40' LT	17.84'	IRON ROD AND CAP SET LB#7915	1125518.21'	488730.10'	27°25'44.8977"	82°30'58.2441"	0.99997331
CP-J	63+73.12	18.99' RT	18.04'	IRON ROD AND CAP SET LB#7915	1125458.28'	489476.92'	27°25'44.3348"	82°30'49.9533"	0.99997303



LEGEND

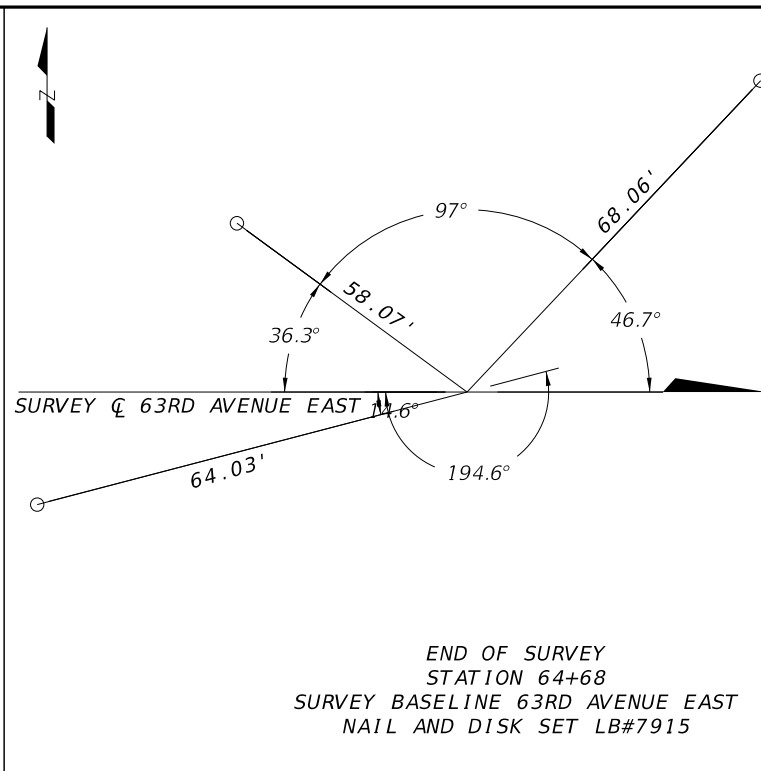
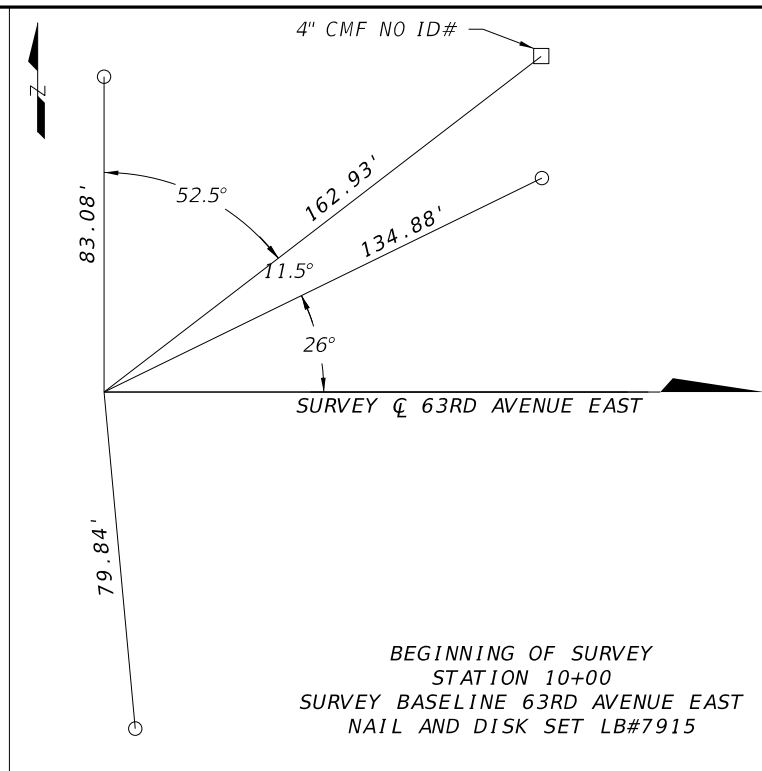
- CP - CONTROL POINT
- C - CENTERLINE
- LB# - LICENSE BUSINESS NUMBER
- NDS - NAIL AND DISK SET LB#7915
- N - NORTHING
- E - EASTING
- RT - RIGHT
- LT - LEFT
- PI - POINT OF INTERSECTION
- STA. - STATION

PROJECT CONTROL NOTES:

1. BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON GRID NORTH OF THE NORTH AMERICAN DATUM OF 1983 (2011) FLORIDA WEST ZONE, AS PER THE FLORIDA PERMANENT REFERENCE NETWORK (FPRN).
2. ELEVATIONS SHOWN HERE ON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) PER THE NATIONAL GEODETIC SURVEY (NGS) BENCHMARKS "GAINESVILLE" PID D05118 PUBLISHED ELEVATION=17.75' AND "26253 B" PID DP6843 PUBLISHED ELEVATION=15.11'.

3. PROJECT UNITS: US FEET

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	 ADAM S. PEREZ, P.E. LICENSE NUMBER 56066 PATEL, GREENE & ASSOCIATES, LLC 12570 TELECOM DRIVE TEMPLE TERRACE, FL 33637	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	PROJECT CONTROL (1)	SHEET NO.
			DESIGNED BY	ASP	03/2023				
			DRAWN BY	JM	PROJECT NO.				
			CHECKED BY	JPH	6107860				



LEGEND

- BM - BENCHMARK
 - C - CENTERLINE
 - LB# - LICENSE BUSINESS NUMBER
 - NDS - NAIL AND DISK SET LB#7915
 - N - NORTHING
 - E - EASTING
 - RT - RIGHT
 - LT - LEFT
 - PI - POINT OF INTERSECTION
 - STA. - STATION
- NAIL AND DISK SET LB#7915 (UNLESS NOTED OTHERWISE)
 - IRON ROD AND CAP SET LB#7915 (UNLESS NOTED OTHERWISE)
 - CONCRETE MONUMENT FOUND

PROJECT CONTROL NOTES:

1. BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON GRID NORTH OF THE NORTH AMERICAN DATUM OF 1983 (2011) FLORIDA WEST ZONE, AS PER THE FLORIDA PERMANENT REFERENCE NETWORK (FPRN).
2. ELEVATIONS SHOWN HERE ON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) PER THE NATIONAL GEODETIC SURVEY (NGS) BENCHMARKS "GAINESVILLE" PID D05118 PUBLISHED ELEVATION=17.75' AND "26253 B" PID DP6843 PUBLISHED ELEVATION=15.11'.
3. PROJECT UNITS: US FEET

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
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PGA ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
FLORIDA ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

PROJECT CONTROL (2)



SHEET NO.

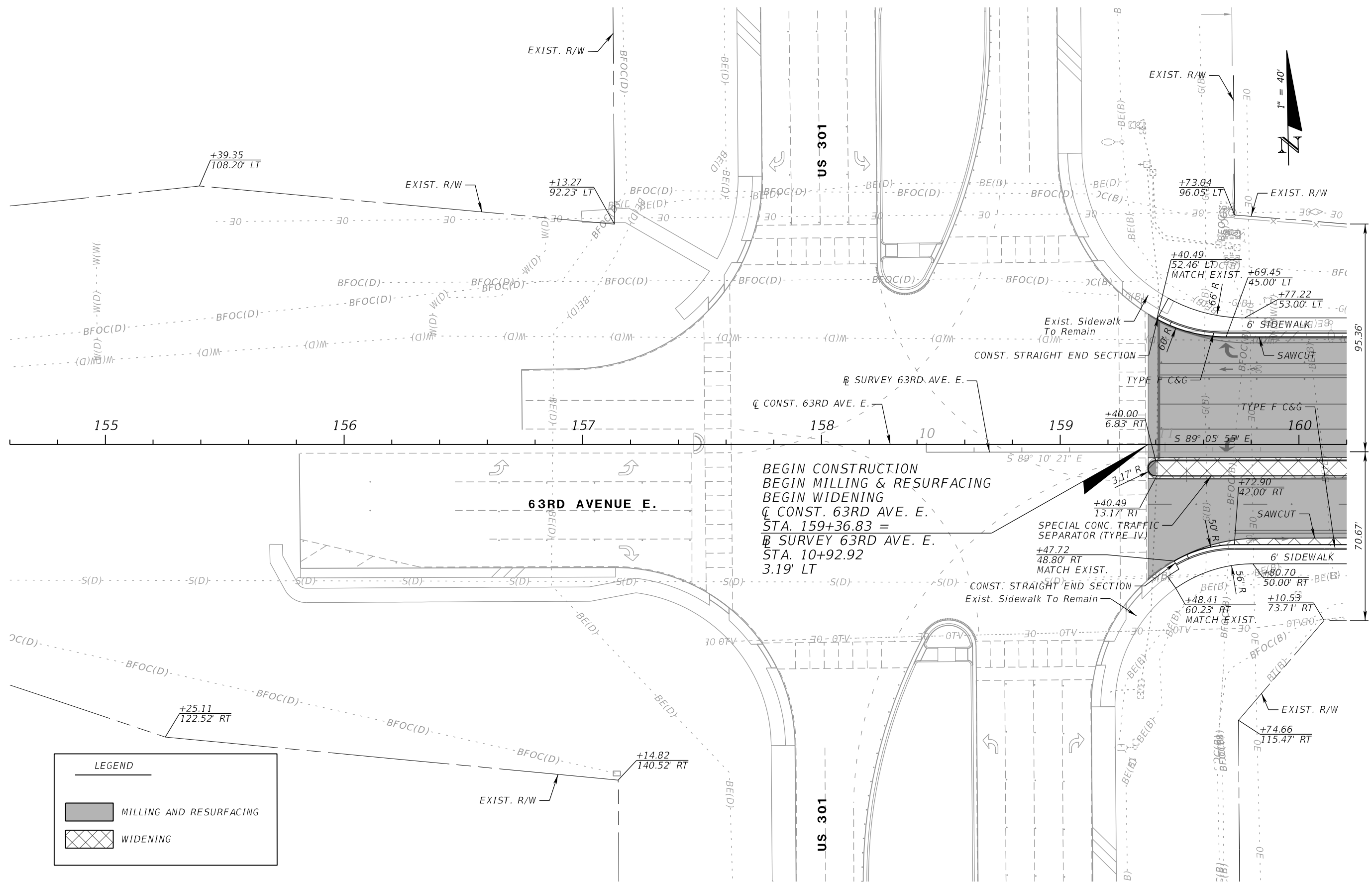
GENERAL NOTES

1. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED.
2. THE REMOVAL OF ANY DRAINAGE STRUCTURE OR PIPE WITHIN 5 FEET OF ANY UTILITY THAT IS IN SERVICE SHALL BE ACCOMPLISHED SO AS NOT TO DAMAGE THE UTILITY.
3. ANY PORTION OF THE EXISTING RIGHT OF WAY THAT IS DISTURBED OUTSIDE THE LIMITS OF CONSTRUCTION SHALL BE REDRESSED AND SODDED AT THE CONTRACTOR'S EXPENSE.
4. NO STOCKPILE OF MATERIAL IS PERMITTED WITHIN THE PROJECT LIMITS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
5. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY EXISTING DRAINAGE INVERT ELEVATIONS THAT WILL REMAIN PART OF THE PROPOSED DRAINAGE SYSTEM. ANY DIFFERENCE FROM PLAN ELEVATION SHALL BE REPORTED TO THE ENGINEER.
6. EXISTING SIDEWALK, CURB & GUTTER, TRAFFIC SEPARATOR, FENCE, DRAINAGE STRUCTURES, AND PIPES WITHIN CONSTRUCTION LIMITS SHALL BE REMOVED, UNLESS OTHERWISE NOTED.
7. THE COUNTY RESERVES THE RIGHT TO PERFORM QUALITY ASSURANCE TESTING ON ALL MATERIAL DELIVERED TO THE PROJECT AND TO REJECT ALL MATERIALS NO MEETING ACCEPTABLE STANDARDS.
8. ANY DAMAGE TO COUNTY, OR LOCAL ROADS CAUSED BY THE CONTRACTOR'S HAULING OR EXCAVATION EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY, PAYMENT SHALL NOT BE MADE FOR THIS WORK.
9. OVERALL CLEANUP SHALL BE ACCOMPLISHED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY. ANY AND ALL EXPENSES INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR MOBILIZATION.
10. SEE COUNTY HIGHWAY & TRAFFIC STANDARD MANUAL ROAD CONNECTION DETAIL 403.3 AT ALL WIDENING AND CONNECTIONS TO EXISTING PAVEMENT.
11. THE CONTRACTOR IS TO FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF ALL DRAINAGE STRUCTURES AND PIPES PRIOR TO ORDERING, CASTING OR PLACING PROPOSED DRAINAGE STRUCTURES AND PIPES.
12. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
14. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
15. AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 OR THE NATIONAL 811 ONE CALL NUMBER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-OF-WAY.
16. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
17. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.
18. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEEPED DAILY AS PART OF DAILY CLEAN UP.
19. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
20. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
21. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR OT SHOWN ON THE PLANS) THAT MAY EFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.
22. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
23. IF THERE IS A DISCREPANCY OR CONFLICT BETWEEN PLAN NOTES AND MANUFACTURER RECOMMENDATIONS WHEN INSTALLING COMPONENTS, CONTACT THE ENGINEER FOR DIRECTION BEFORE PRECEDING.
24. ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM, 1988 ADJUSTMENT (NAVD 88).
25. ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEY AND MAPPER OF RECORD IS:

TRAVIS D. PARK, P.S.M.
P.S.M. NO.: 6731
PARK COASTAL SURVEYING, LLC.
1329 10TH STREET EAST
PALMETTO, FL 34221
26. SP STANDS FOR SPECIAL. ANY DRIVEWAYS WITH THIS CLASSIFICATION REFER TO DRIVEWAY HALF SECTIONS FOR ADDITIONAL INFORMATION ON GRADES.
27. TEMPORARY SHORING TO FACILITATE SUBSOIL EXCAVATION MAY BE REQUIRED TO PREVENT EXCAVATION OUTSIDE OF THE RIGHT-OF-WAY. THE DESIGN AND ALL MATERIALS AND LABOR FOR THE INSTALLATION AND EXTRACTION OF THE TEMPORARY SHORING SHALL BE INCLUDED IN THE PRICE OF SUBSOIL EXCAVATION.
28. DEBRIS MATERIAL CONSISTING OF ASPHALT, CONCRETE, BRICK, PLASTIC AND/OR WOOD WAS ENCOUNTERED WITH THE FPC SITE. THE DEBRIS MATERIAL VARIED IN DEPTH AND CONSISTENCY. THE CONTAMINATION REPORT CONDUCTED FOR THE FPC SITE IS AVAILABLE FOR REVIEW.

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NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	 ADAM S. PEREZ, P.E. LICENSE NUMBER 56066 PATEL, GREENE & ASSOCIATES, LLC 12570 TELECOM DRIVE TEMPLE TERRACE, FL 33637	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	GENERAL NOTES	SHEET NO.
			DESIGNED BY	ASP	03/2023				
			DRAWN BY	JM	PROJECT NO.				
			CHECKED BY	JPH	6107860				



LEGEND

- MILLING AND RESURFACING
- WIDENING

**BEGIN CONSTRUCTION
 BEGIN MILLING & RESURFACING
 BEGIN WIDENING
 C CONST. 63RD AVE. E.
 STA. 159+36.83 =
 B SURVEY 63RD AVE. E.
 STA. 10+92.92
 3.19' LT**

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

ROADWAY PLAN (1)

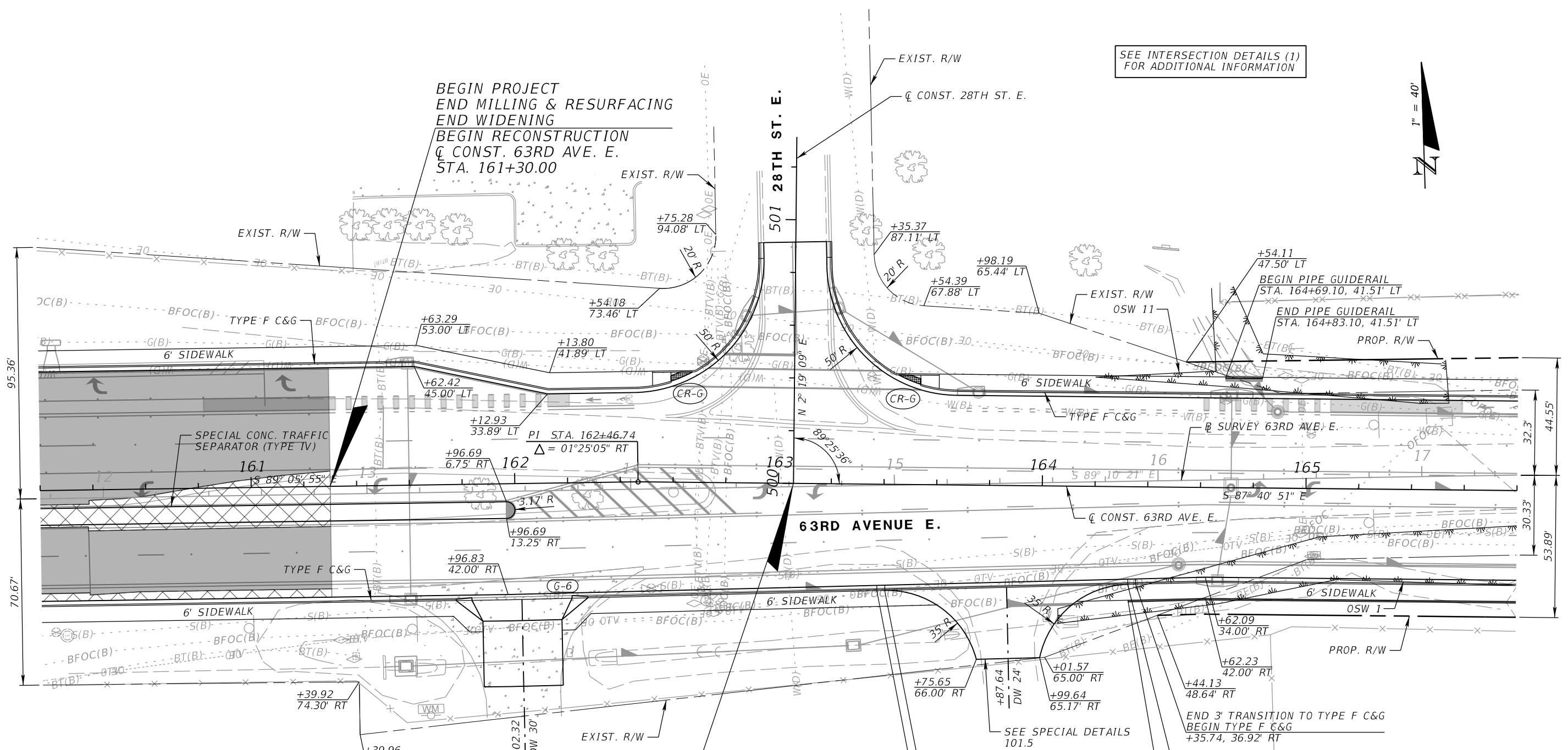
SHEET NO.

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SEE INTERSECTION DETAILS (1)
FOR ADDITIONAL INFORMATION



BEGIN PROJECT
END MILLING & RESURFACING
END WIDENING
BEGIN RECONSTRUCTION
CONST. 63RD AVE. E.
STA. 161+30.00



LEGEND

- MILLING AND RESURFACING
- WIDENING
- G-x FDOT STANDARD PLANS 522-003 DESIGNATION
- CR- FDOT STANDARD PLANS 522-002 DESIGNATION
- OTHER SURFACE WATER

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

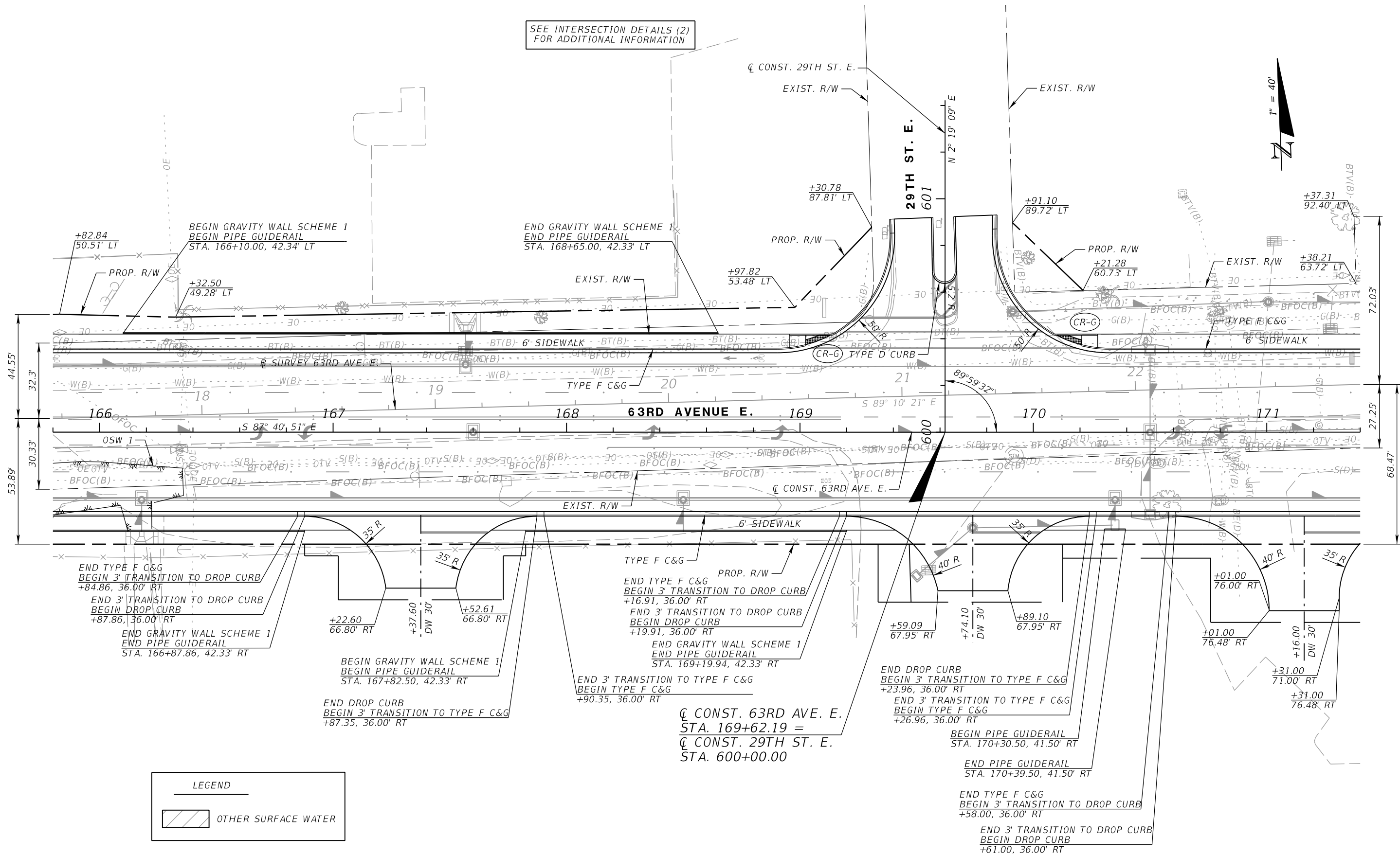
Manatee County PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

ROADWAY PLAN (2)

SHEET NO.

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SEE INTERSECTION DETAILS (2)
FOR ADDITIONAL INFORMATION



LEGEND

OTHER SURFACE WATER

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

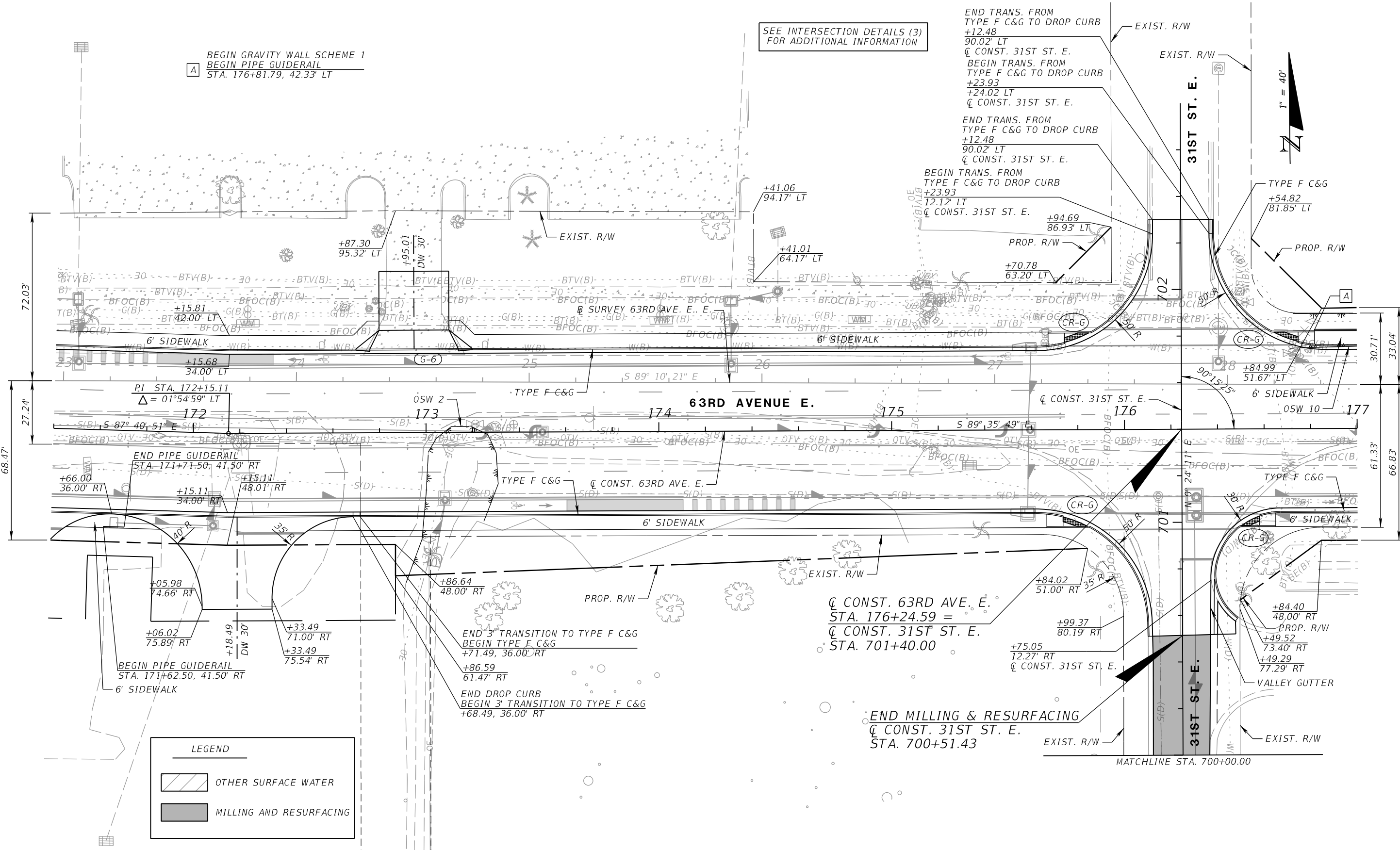
PGA ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

ROADWAY PLAN (3)

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BEGIN GRAVITY WALL SCHEME 1
 BEGIN PIPE GUIDERAIL
 STA. 176+81.79, 42.33' LT

SEE INTERSECTION DETAILS (3)
 FOR ADDITIONAL INFORMATION

END TRANS. FROM
 TYPE F C&G TO DROP CURB
 +12.48
 90.02' LT
 Q CONST. 31ST ST. E.
 BEGIN TRANS. FROM
 TYPE F C&G TO DROP CURB
 +23.93
 +24.02 LT
 Q CONST. 31ST ST. E.
 END TRANS. FROM
 TYPE F C&G TO DROP CURB
 +12.48
 90.02' LT
 Q CONST. 31ST ST. E.
 BEGIN TRANS. FROM
 TYPE F C&G TO DROP CURB
 +23.93
 12.12' LT
 Q CONST. 31ST ST. E.

LEGEND

	OTHER SURFACE WATER
	MILLING AND RESURFACING

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

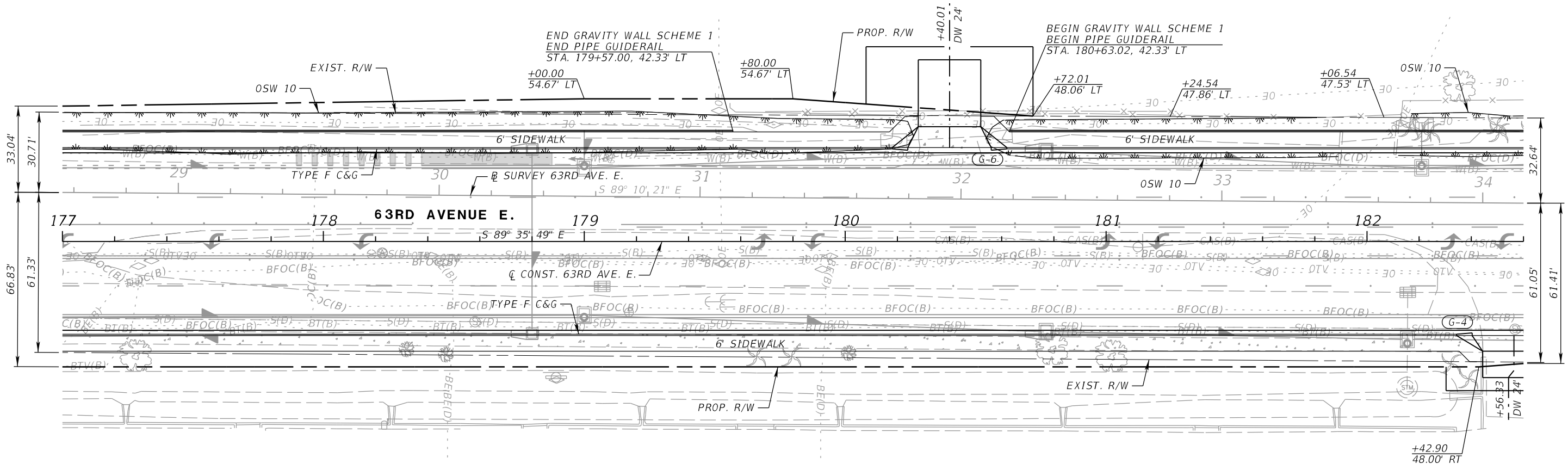
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

ROADWAY PLAN (4)

SHEET NO.

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LEGEND	
	OTHER SURFACE WATER

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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PGA
 ADAM S. PEREZ, P.E.
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 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

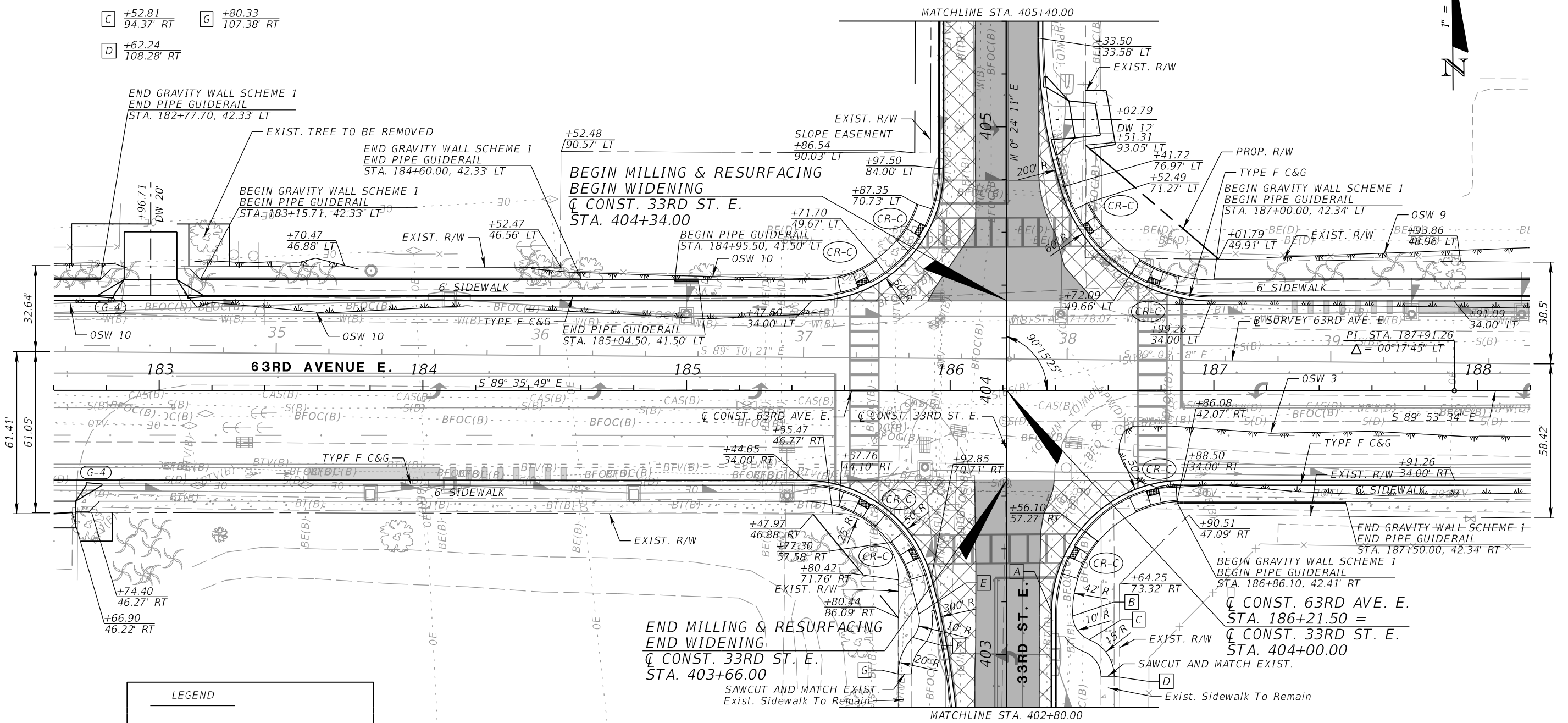
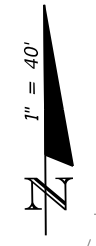
Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
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ROADWAY PLAN (5)

SHEET NO.

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A	+38.50 84.00' RT	E	+88.13 84.64' RT
B	+46.52 85.42' RT	F	+85.86 93.54' RT
C	+52.81 94.37' RT	G	+80.33 107.38' RT
D	+62.24 108.28' RT		



LEGEND	
	MILLING AND RESURFACING
	WIDENING
	OTHER SURFACE WATER

NOTE: THE RIGHT OF WAY ON THE NORTHWEST AND SOUTHEAST QUADRANT ARE BEING INVESTIGATED. MORE INFORMATION WILL BE INCLUDED WITH PHASE II SUBMITTAL.

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			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

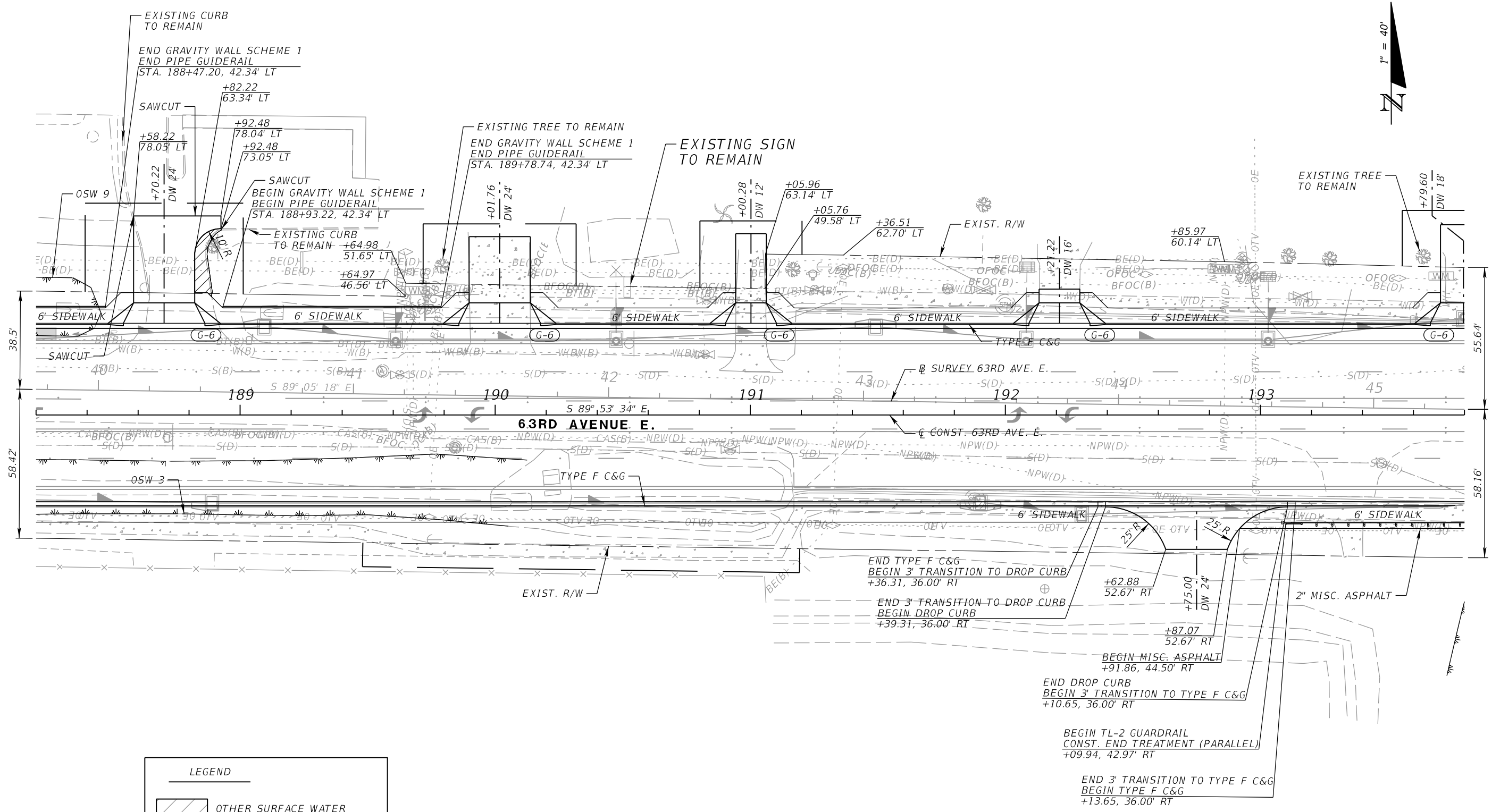
PGA ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

ROADWAY PLAN (6)

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LEGEND	
	OTHER SURFACE WATER
	ASPHALT/CONCRETE REMOVAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 FLORIDA
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 1022 26th Avenue East
 Bradenton, FL 34208

ROADWAY PLAN (7)

SHEET NO.

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SAWCUT AND MATCH EXISTING
+99.55, 44.00' LT

OSW 4
END APPROACH SLAB
BEGIN BRIDGE 134117
C CONST. 63RD AVE. E.
STA. 194+03.87

BEGIN 32" TRAFFIC RAILING
+47.79, 42.00' LT
MATCH EXIST.
BEGIN MISC. ASPHALT
+59.28, 45.00' LT
SAWCUT AND MATCH EXISTING
+58.23, 42.00' LT
BEGIN TL-2 GUARDRAIL
+58.68, 42.00' RT
END 32" TRAFFIC RAILING
CONST. TRANSITION CONNECTION
TO RIGID BARRIER PER STANDARD
PLANS INDEX 536-001 SHEET 15 OF 24
+59.28, 42.00' LT
END TL-2 GUARDRAIL
CONST. END TREATMENT (PARALLEL)
+34.27, 42.97' LT

SEE INTERSECTION DETAILS (4)
FOR ADDITIONAL INFORMATION

C CONST. 35TH CT. E.
CURVE CL35THCT-1

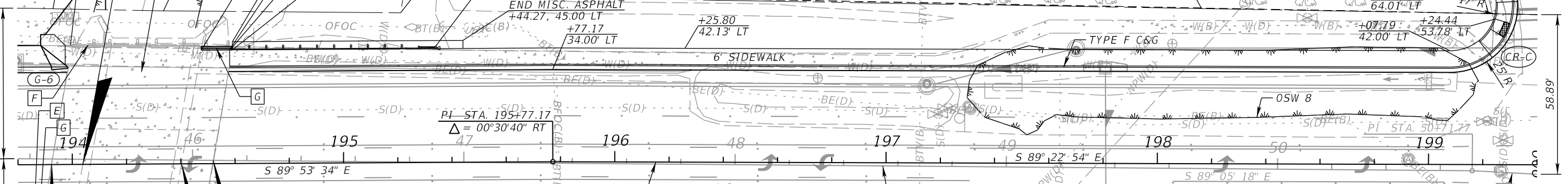


35TH CT. E.

SAWCUT AND MATCH EXIST.
Exist. Sidewalk To Remain
+83.23
23.09' LT
C CONST. 35TH CT. E.
+19.67
66.63' LT
+23.99
64.07' LT

+93.22
57.53' LT
+33.92
56.55' LT

+22.51
61.93' LT
+21.35
55.29' LT
END MISC. ASPHALT
+44.27, 45.00' LT
+77.17
34.00' LT
+25.80
42.13' LT



55.63'

58.89'

58.16'

CURVE DATA CL35THCT-1
PI STA. = 900+88.80
 Δ = 65° 50' 32" (LT)
D = 79° 13' 52"
T = 46.82
L = 83.10
R = 72.31
PC STA. = 900+41.98
PT STA. = 901+25.08

END RECONSTRUCTION
BEGIN APPROACH SLAB
C CONST. 63RD AVE. E.
STA. 193+92.36

END APPROACH SLAB
BEGIN RECONSTRUCTION
C CONST. 63RD AVE. E.
STA. 194+51.92

END BRIDGE 134117
BEGIN APPROACH SLAB
C CONST. 63RD AVE. E.
STA. 194+40.24

SAWCUT AND MATCH EXISTING
+45.39, 42.00' RT

- A END 32" TRAFFIC RAILING
STA. +96.01, 42.00' RT
MATCH EXIST.
- B NO PROP. WORK ACROSS BRIDGE
- C BEGIN 32" TRAFFIC RAILING
CONST. TRANSITION CONNECTION
TO RIGID BARRIER PER STANDARD
PLANS INDEX 536-001 SHEET 15 OF 24
STA. +84.94, 42.00' RT
- D END MISC. ASPHALT
STA. +84.94, 44.50' RT
- E SAWCUT AND MATCH EXISTING
+85.05, 34.94' RT
- F Exist. Tapered Walls With
Railing to Remain
- G EXIST. TAPERED WALLS WITH
RAILING TO BE REMOVED
- H END TL-2 GUARDRAIL
+85.54, 42.00' RT

LEGEND

- OTHER SURFACE WATER
- MILLING AND RESURFACING

MATCHLINE 799+80.00

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			CHECKED BY	JPH	6107860

ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

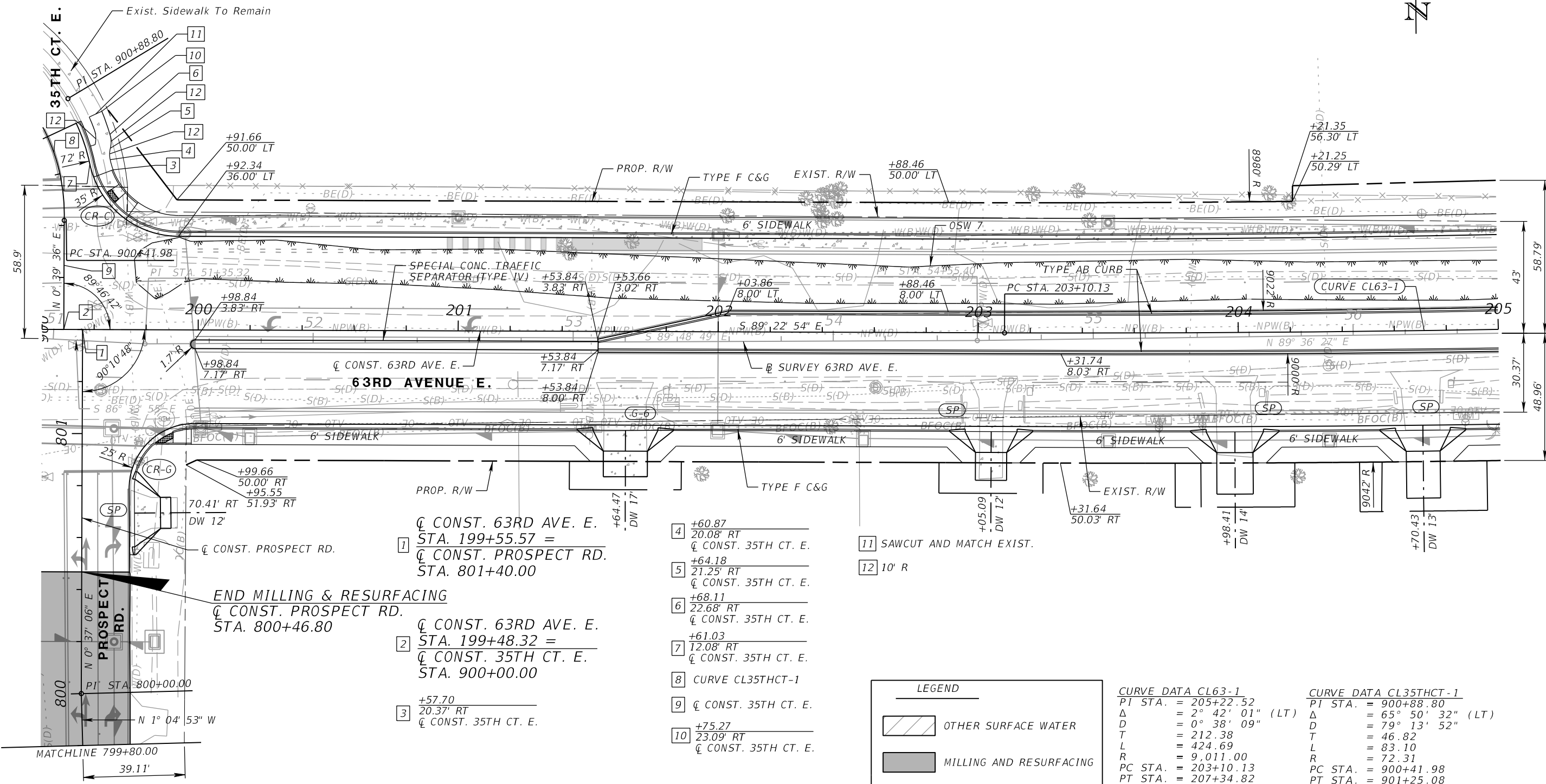
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

ROADWAY PLAN (8)

SHEET NO.

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SEE INTERSECTION DETAILS (4)
FOR ADDITIONAL INFORMATION



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	DRAWN BY			JM	PROJECT NO.
	CHECKED BY			JPH	6107860

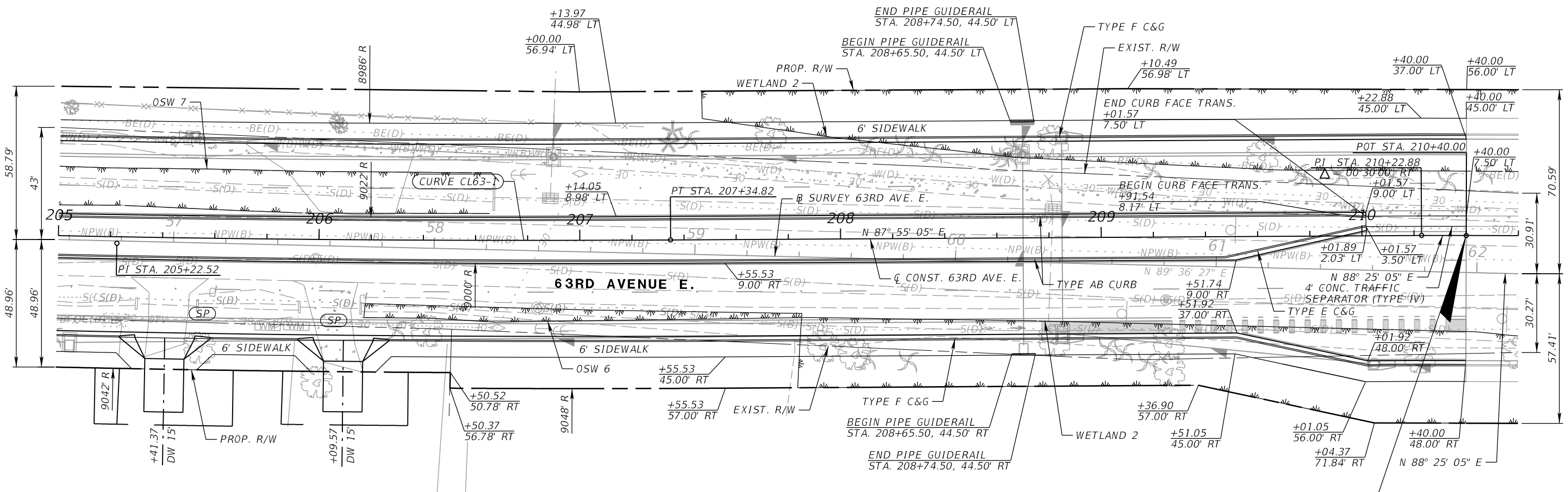
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

ROADWAY PLAN (9)

SHEET NO.

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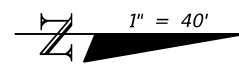
CURVE DATA CL63-1
 PI STA. = 205+22.52
 Δ = 2° 42' 01" (LT)
 D = 0° 38' 09"
 T = 212.38
 L = 424.69
 R = 9,011.00
 PC STA. = 203+10.13
 PT STA. = 207+34.82



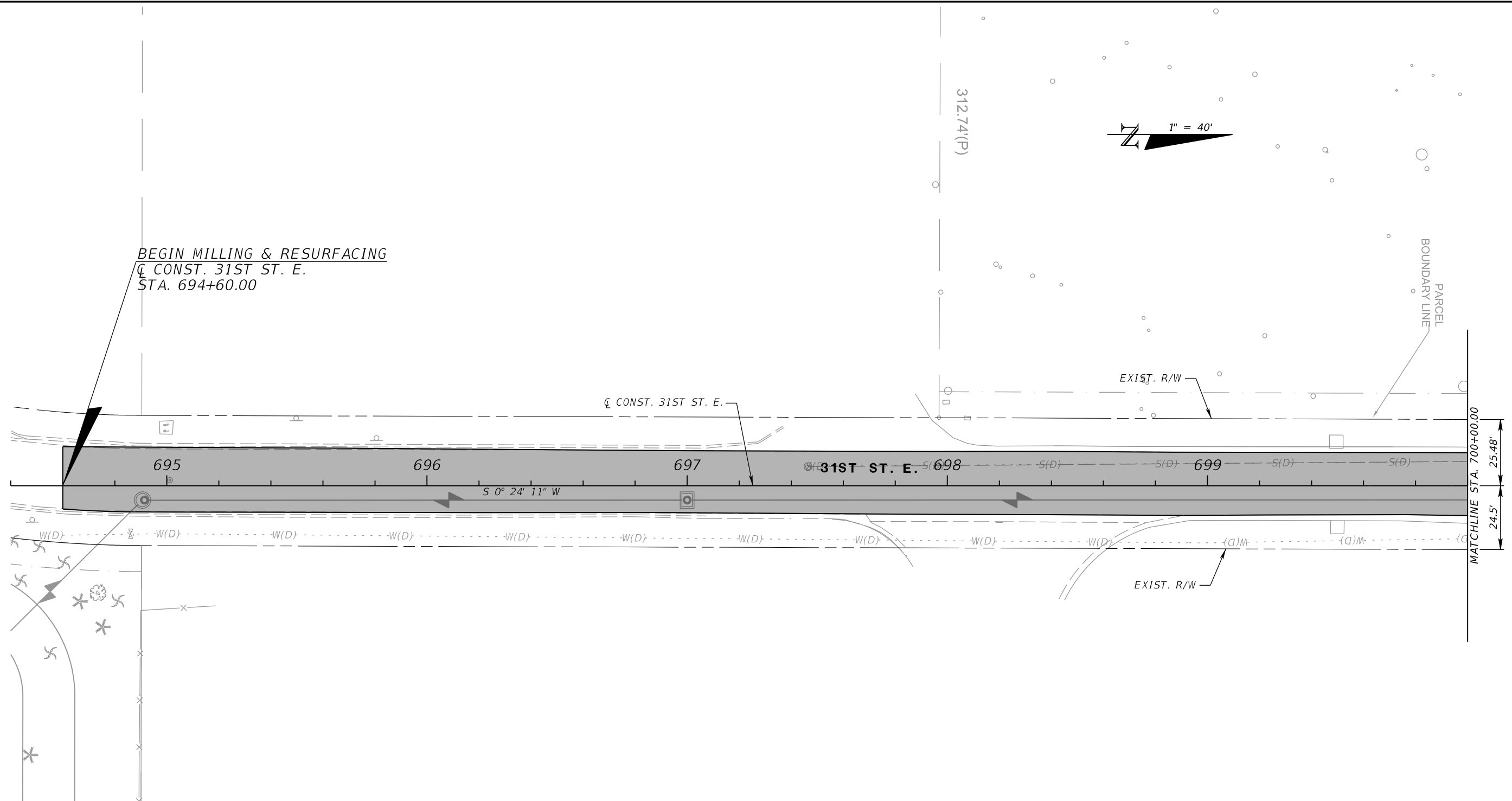
END ROADWAY IMPROVEMENTS
 SEE INTERSECTION IMPROVEMENT PLANS
 @ CONST. 63RD AVE. E.
 STA. 210+40.00 =
 @ SURVEY 63RD AVE. E.
 STA. 61+95.63

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	ADAM S. PEREZ, P.E. LICENSE NUMBER 56066 PATEL, GREENE & ASSOCIATES, LLC 12570 TELECOM DRIVE TEMPLE TERRACE, FL 33637	PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	ROADWAY PLAN (10)	SHEET NO.
			DESIGNED BY	ASP	03/2023				
			DRAWN BY	JM	PROJECT NO.				
			CHECKED BY	JPH	6107860				

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BEGIN MILLING & RESURFACING
 @ CONST. 31ST ST. E.
 STA. 694+60.00



LEGEND	
	MILLING AND RESURFACING

TRAVEL LANE MILLING

MILL EXISTING PAVEMENT (1 1/2") (FOR DEPTH)

TRAVEL LANE RESURFACING

FRICITION COURSE FC-12.5 (1 1/2") (PG 76-22)

31ST STREET E.

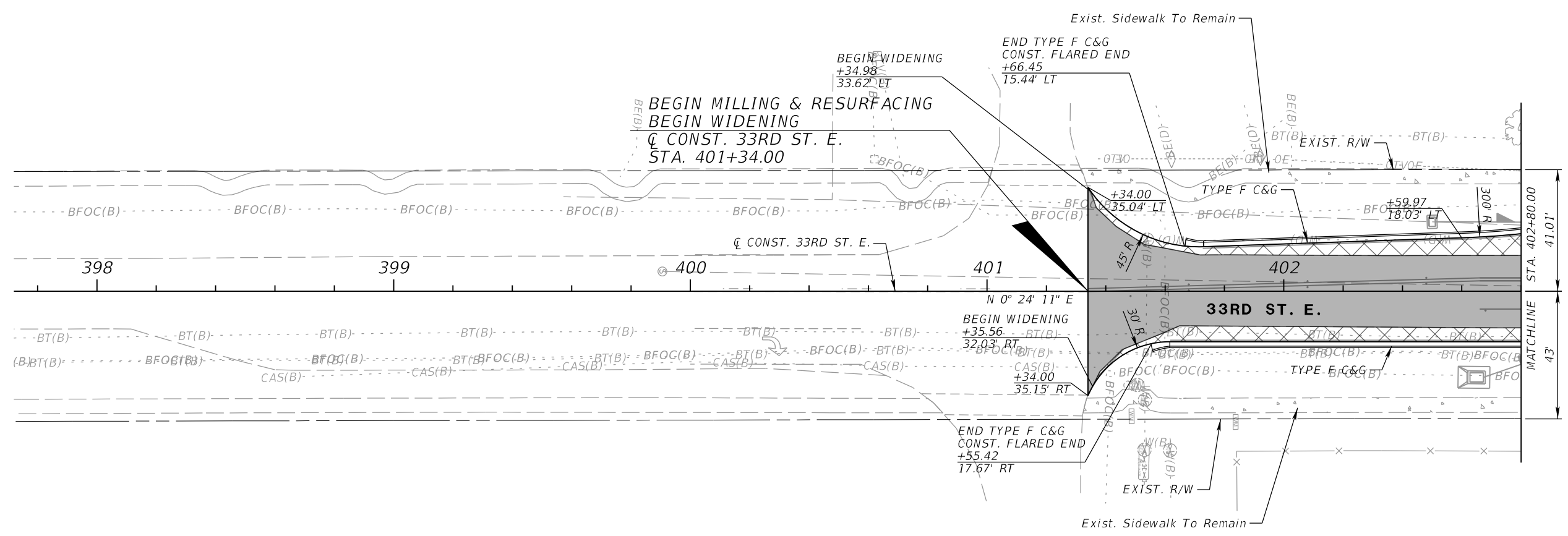
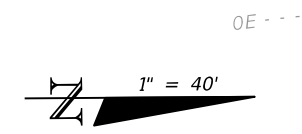
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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PGA
 ADAM S. PEREZ, P.E.
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 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

ROADWAY PLAN (11)		SHEET NO.

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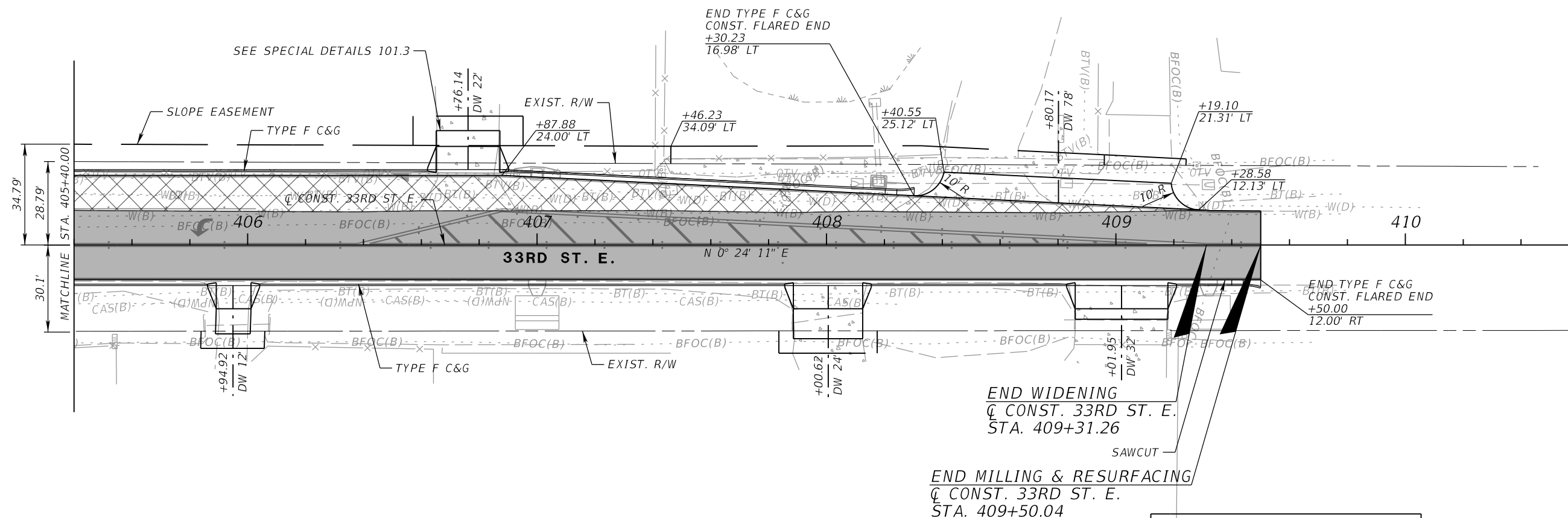
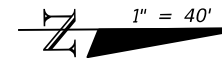
LEGEND

	MILLING AND RESURFACING
	WIDENING

33RD STREET E.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	ADAM S. PEREZ, P.E. LICENSE NUMBER 56066 PATEL, GREENE & ASSOCIATES, LLC 12570 TELECOM DRIVE TEMPLE TERRACE, FL 33637	PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	ROADWAY PLAN (12)	SHEET NO.
			DESIGNED BY	ASP	03/2023				
			DRAWN BY	JM	PROJECT NO.				
			CHECKED BY	JPH	6107860				

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LEGEND

- MILLING AND RESURFACING
- WIDENING

33RD STREET E.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

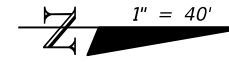
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 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

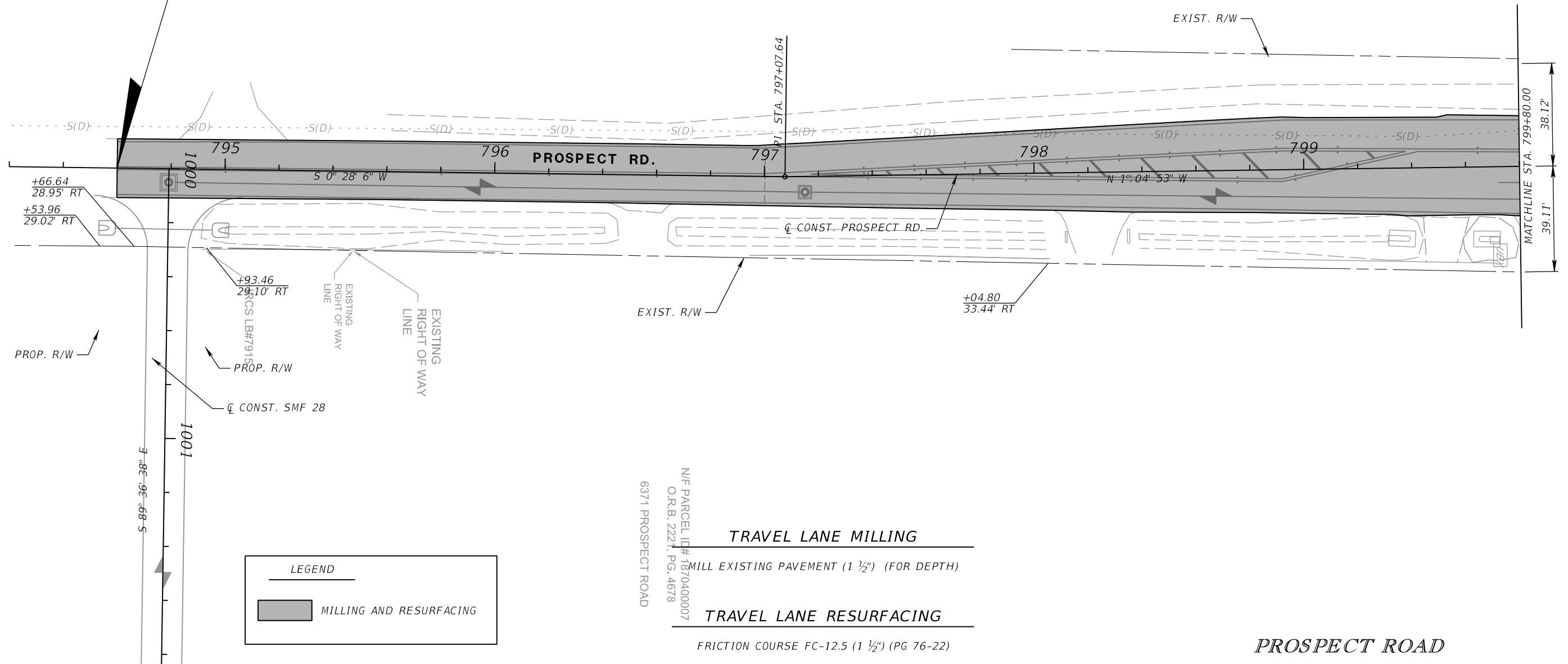
ROADWAY PLAN (13)

SHEET NO.

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BEGIN MILLING & RESURFACING
 C CONST. PROSPECT RD.
 STA. 794+60.00



LEGEND

— EXISTING RIGHT OF WAY LINE

— PROP. R/W

█ MILLING AND RESURFACING

N/F PARCEL ID# 1870400007
 O.R.B. 2221, PG. 4678
 6371 PROSPECT ROAD

TRAVEL LANE MILLING
 MILL EXISTING PAVEMENT (1 1/2") (FOR DEPTH)

TRAVEL LANE RESURFACING
 FRICTION COURSE FC-12.5 (1 1/2") (PG 76-22)

PROSPECT ROAD

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

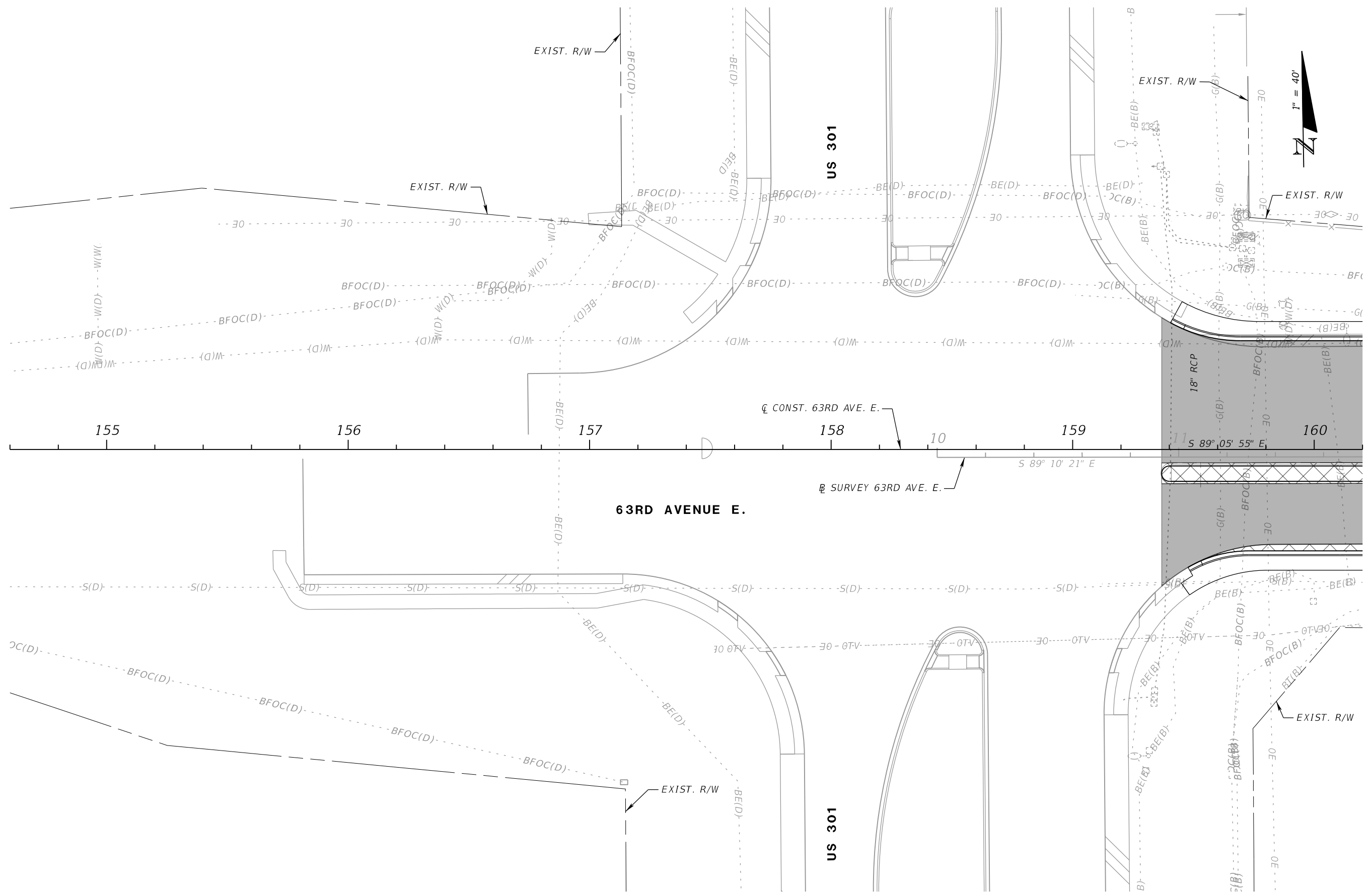
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
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 1022 26th Avenue East
 Bradenton, FL 34208

ROADWAY PLAN (14)

SHEET NO.

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			DRAWN BY	ZK	PROJECT NO.
			CHECKED BY	TAP	6107860

PGA

RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

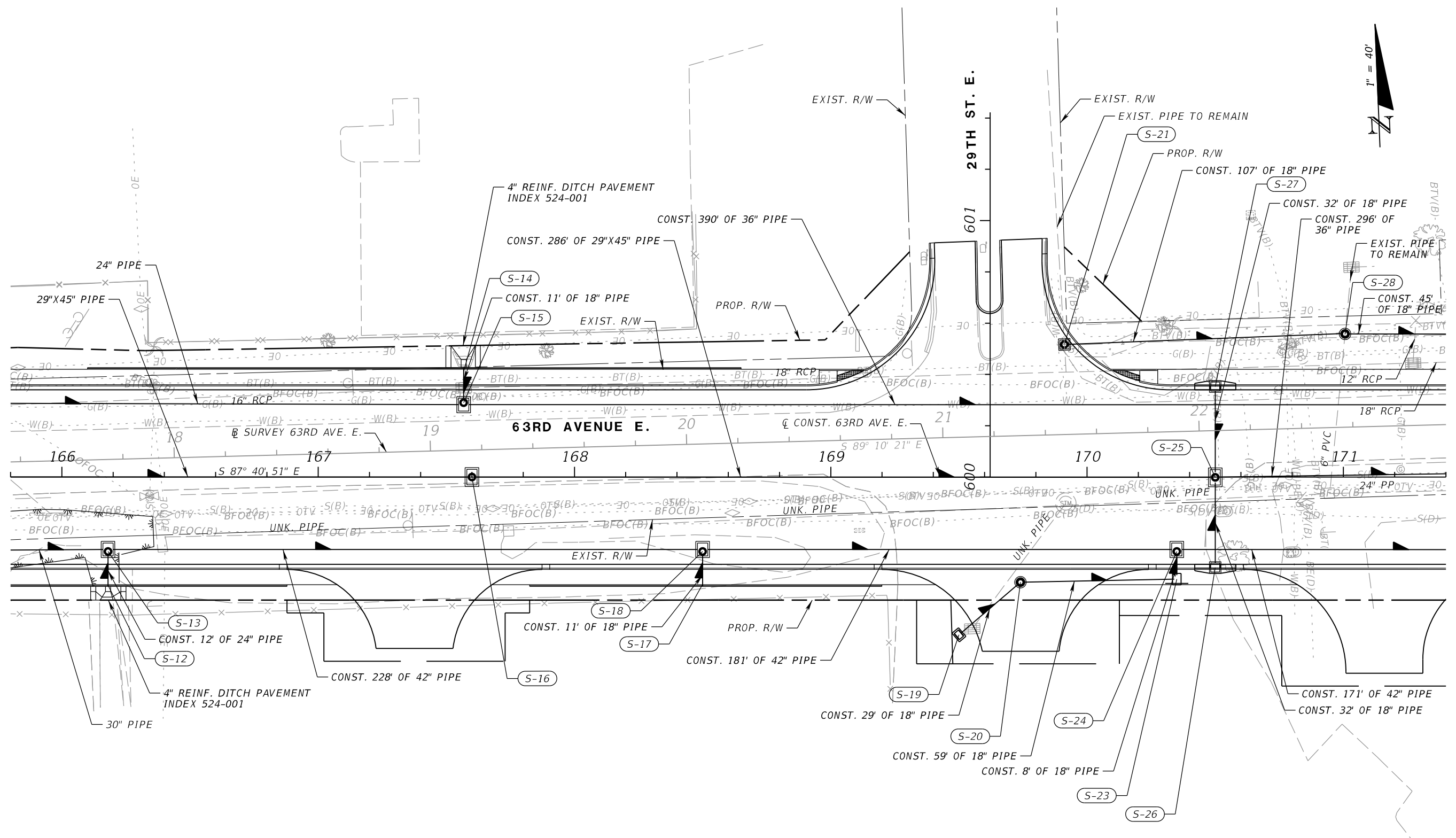
Manatee County
 FLORIDA

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 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

DRAINAGE PLAN (1)

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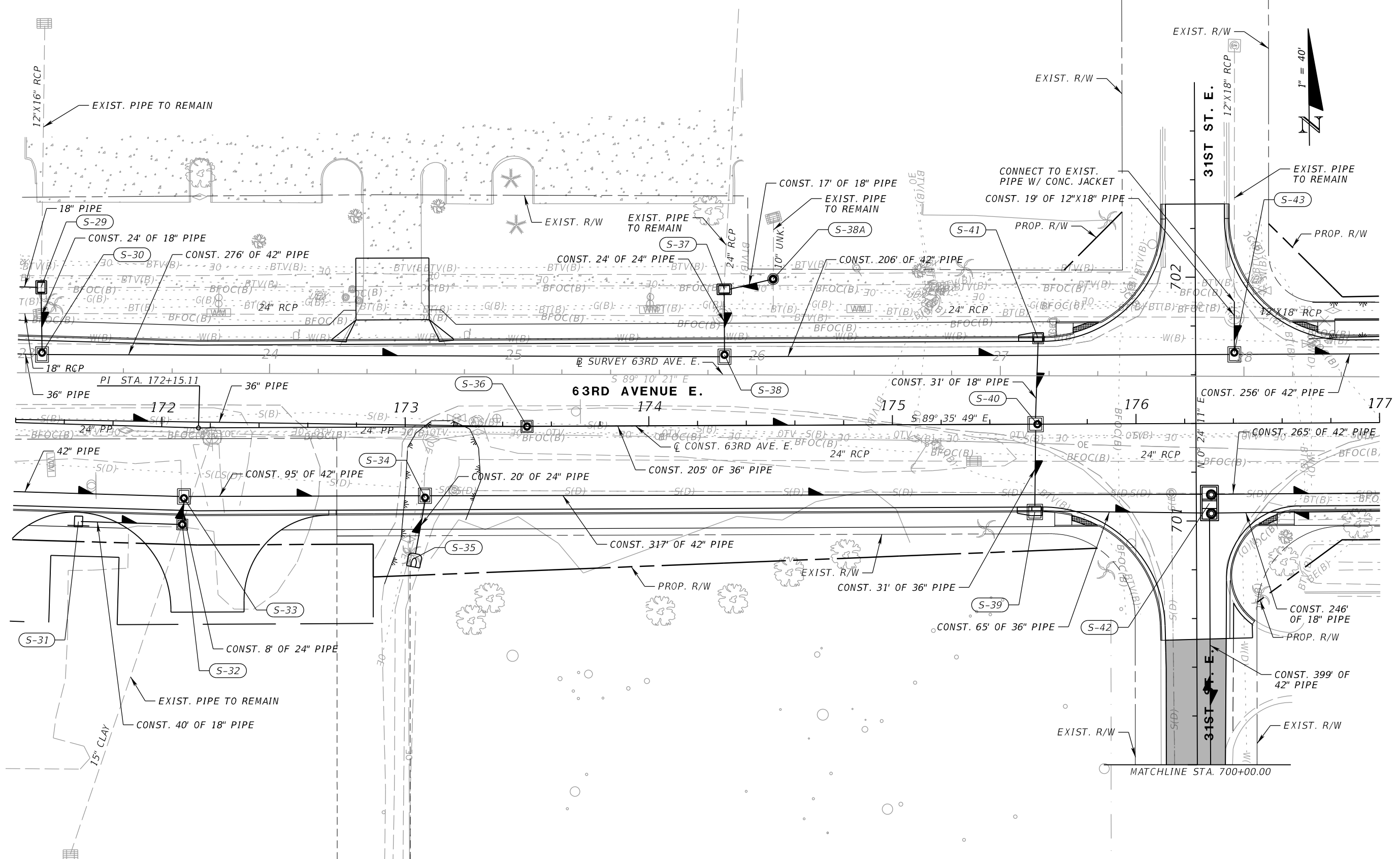
PGA
 RICHARD D. UPTGRAFF, P.E.
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 SUITE 104
 SARASOTA, FL 34240

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DRAINAGE PLAN (3)

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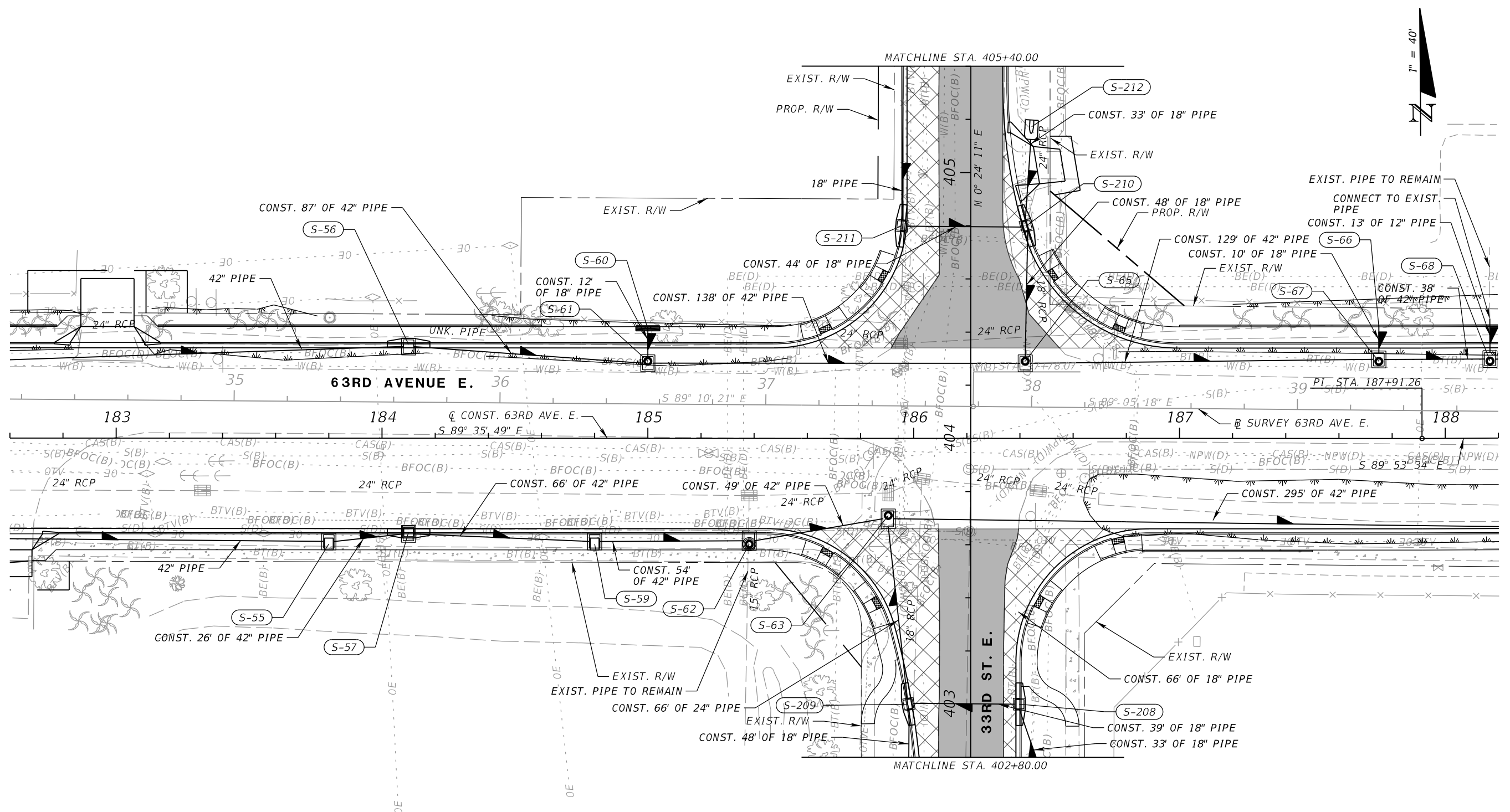
RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240



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DRAINAGE PLAN (4)

SHEET NO.



NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	03/2023
			DRAWN BY	ZK	PROJECT NO.
			CHECKED BY	TAP	6107860

PGA

RICHARD D. UPTGRAFF, P.E.
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 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

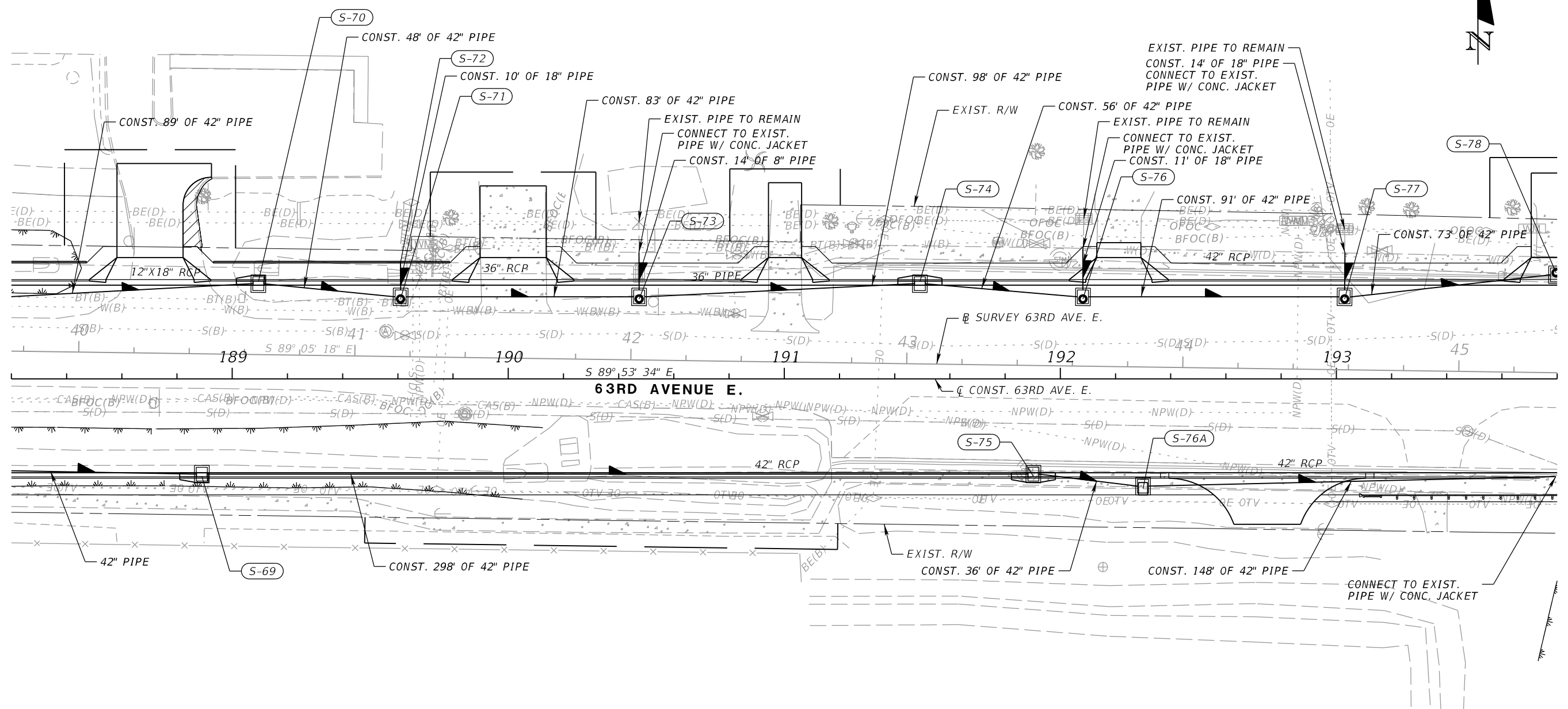
Manatee County
 FLORIDA

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DRAINAGE PLAN (6)

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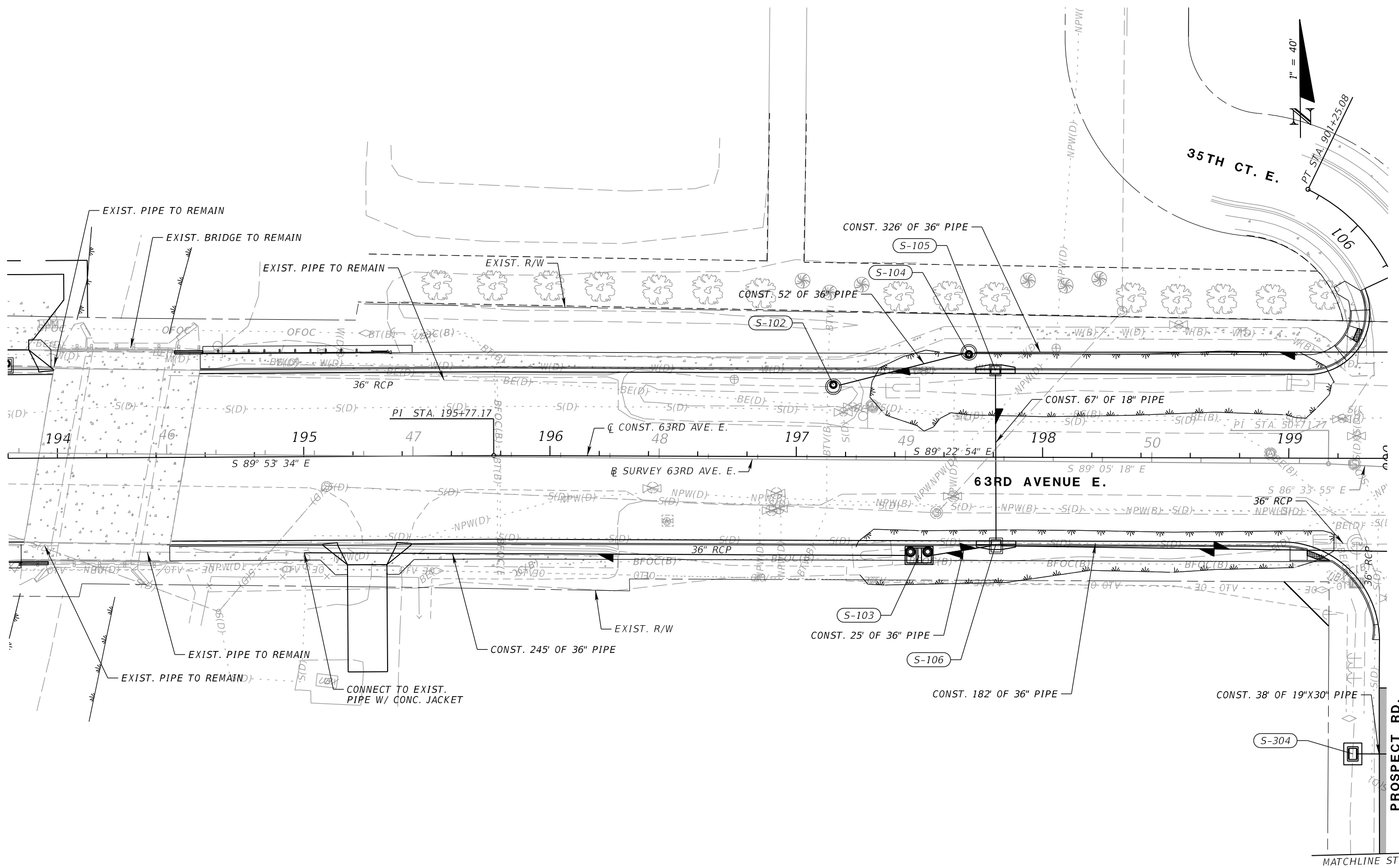
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	03/2023
			DRAWN BY	ZK	PROJECT NO.
			CHECKED BY	TAP	6107860

PGA RICHARD D. UPTGRAFF, P.E.
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 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

Manatee County PUBLIC WORKS DEPARTMENT
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DRAINAGE PLAN (7)

SHEET NO.



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			CHECKED BY	TAP	6107860



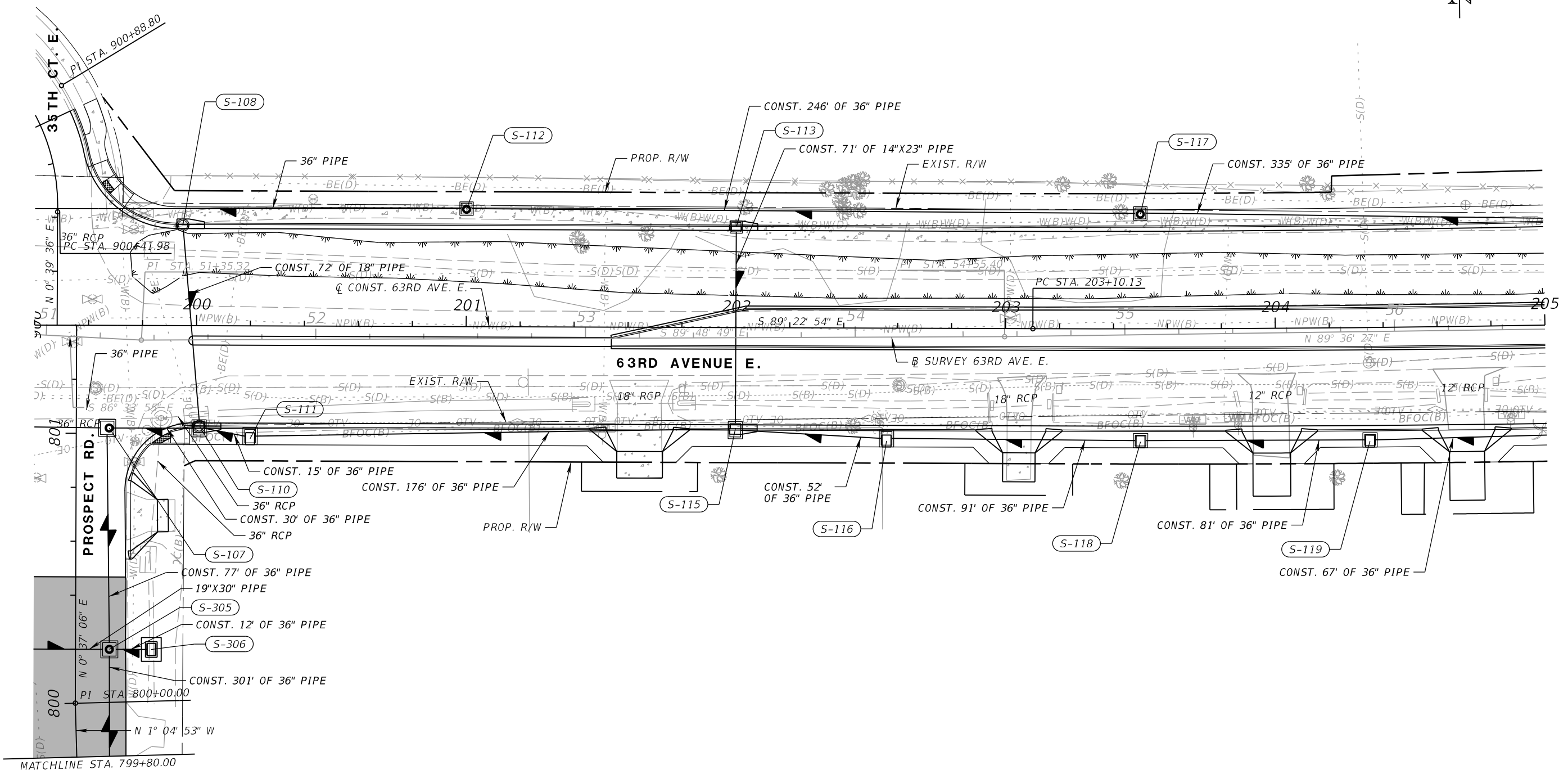
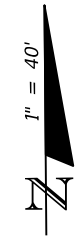
RICHARD D. UPTGRAFF, P.E.
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DRAINAGE PLAN (8)

SHEET NO.



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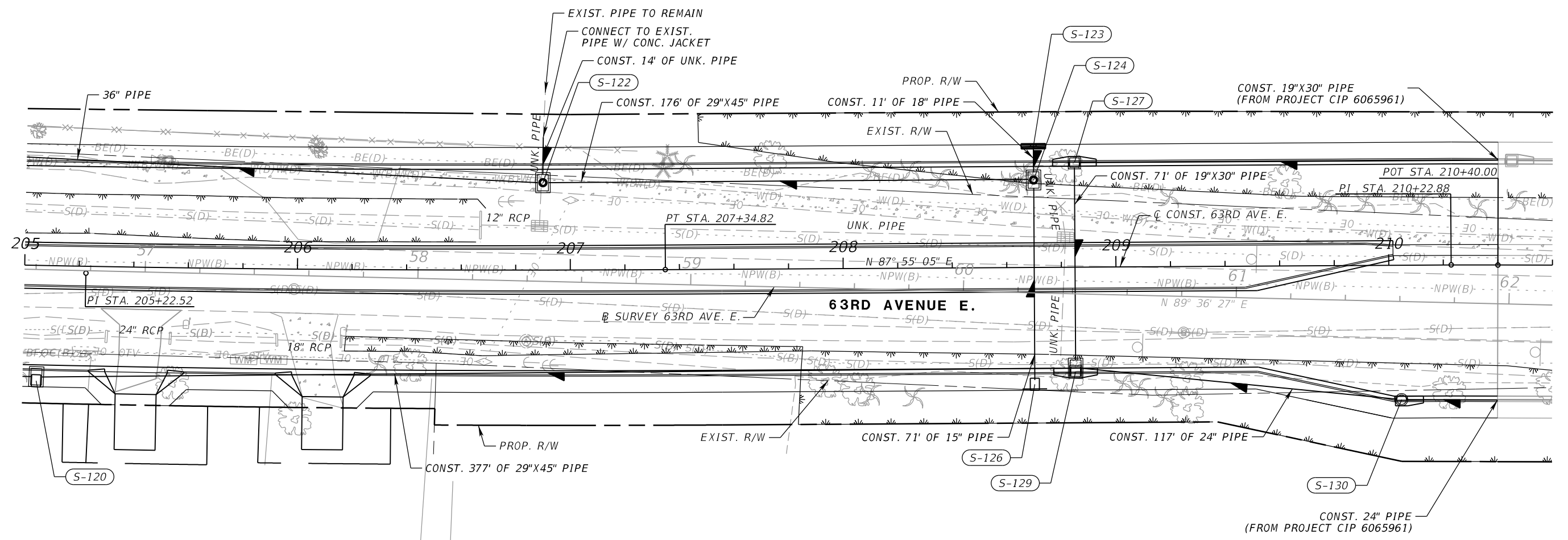
Manatee County
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DRAINAGE PLAN (9)

SHEET NO.

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 SUITE 104
 SARASOTA, FL 34240

Manatee County
 FLORIDA

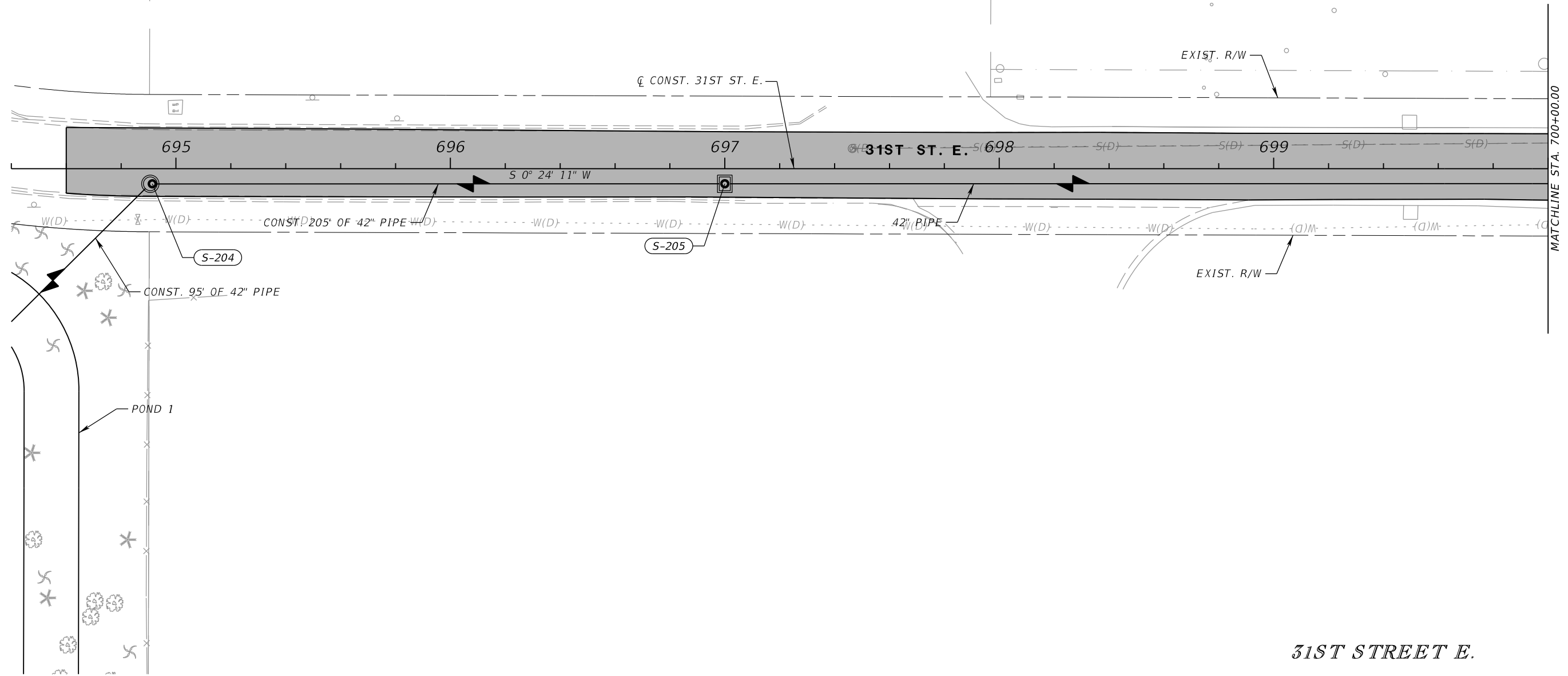
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DRAINAGE PLAN (10)

SHEET NO.

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1" = 40'



31ST STREET E.

DRAINAGE PLAN (11)

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			DRAWN BY	ZK	PROJECT NO.
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RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

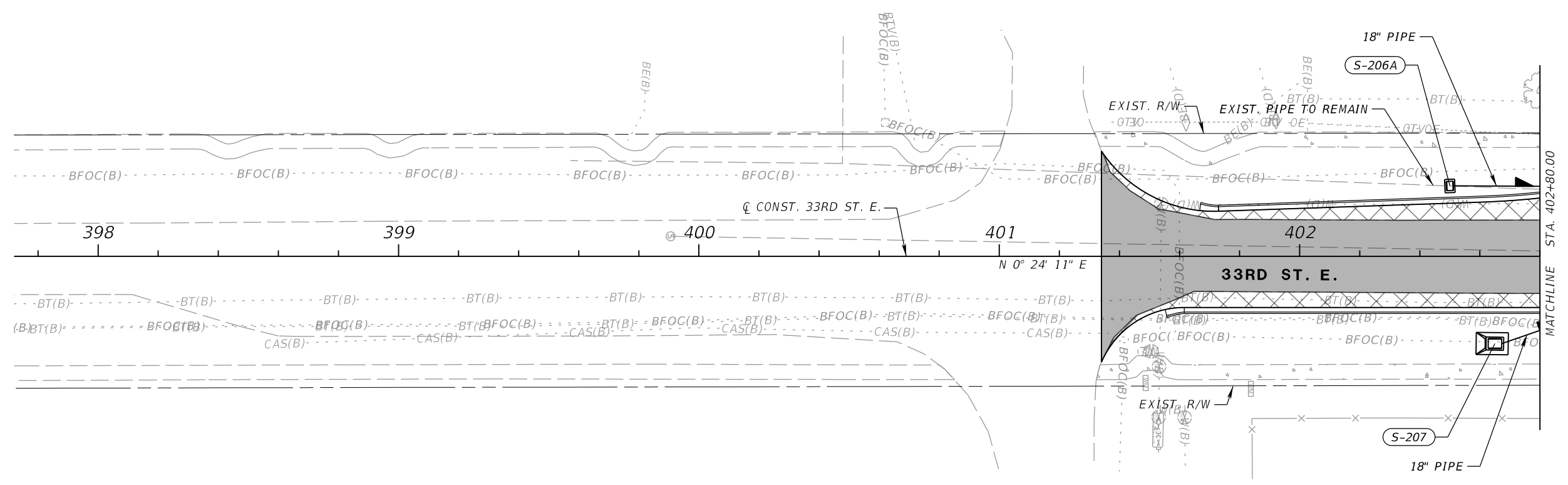
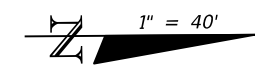


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SHEET NO.

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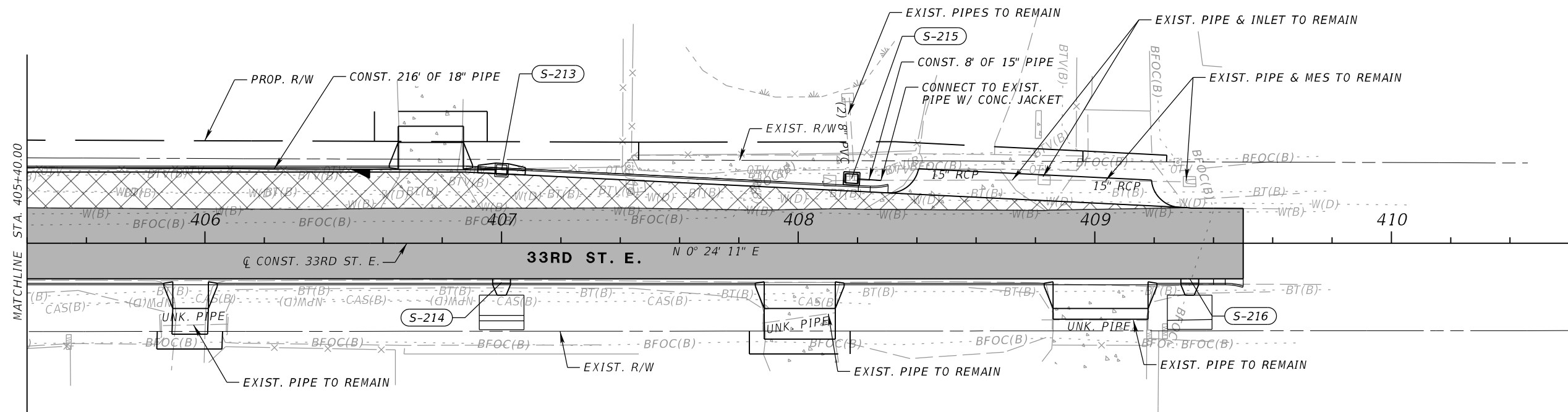
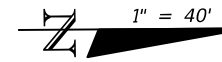
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33RD STREET E.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	 RICHARD D. UPTGRAFF, P.E. LICENSE NUMBER 58789 PATEL, GREENE & ASSOCIATES, LLC 7020 PROFESSIONAL PARKWAY E SUITE 104 SARASOTA, FL 34240	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	DRAINAGE PLAN (12)	SHEET NO.
			DESIGNED BY	RDU	03/2023				
			DRAWN BY	ZK	PROJECT NO.				
			CHECKED BY	TAP	6107860				

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33RD STREET E.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	03/2023
			DRAWN BY	ZK	PROJECT NO.
			CHECKED BY	TAP	6107860



RICHARD D. UPTGRAFF, P.E.
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 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

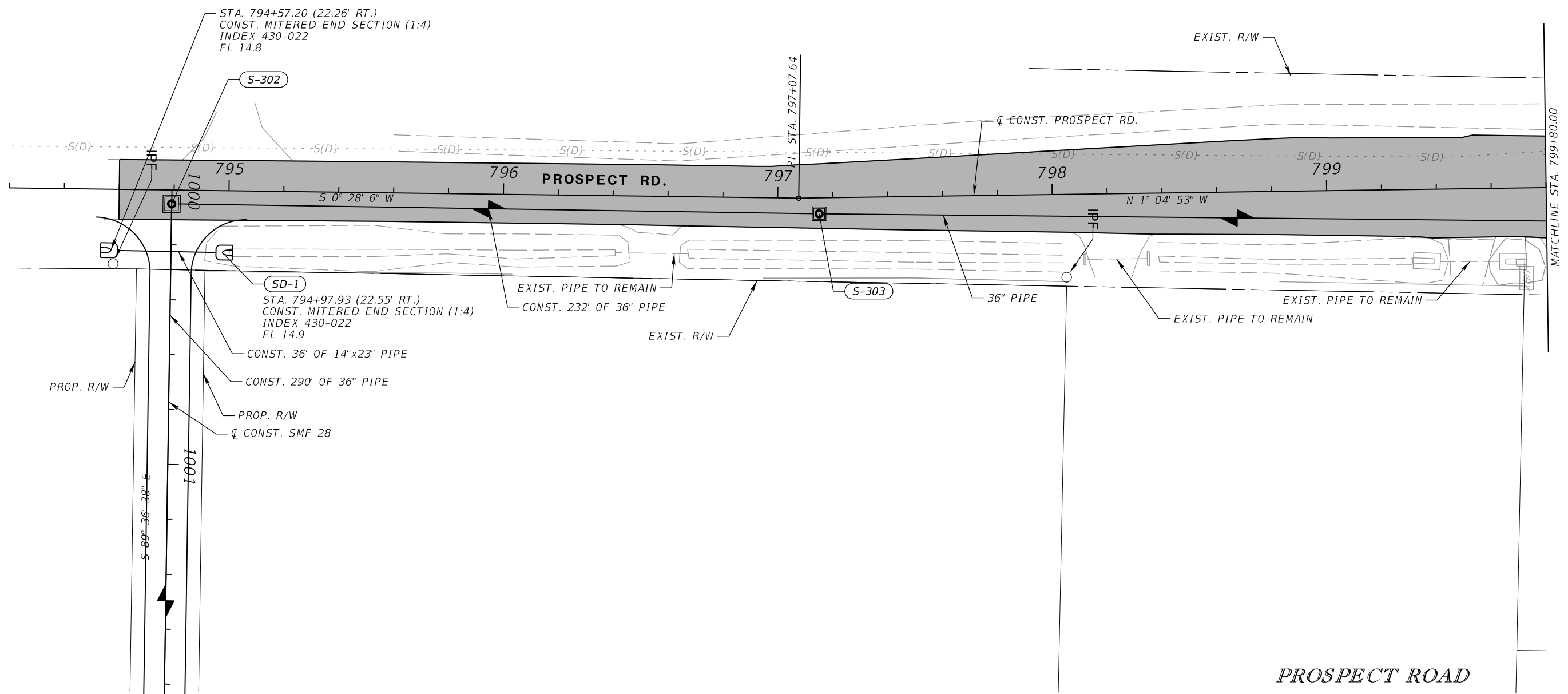
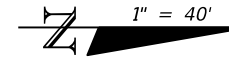


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DRAINAGE PLAN (13)

SHEET NO.

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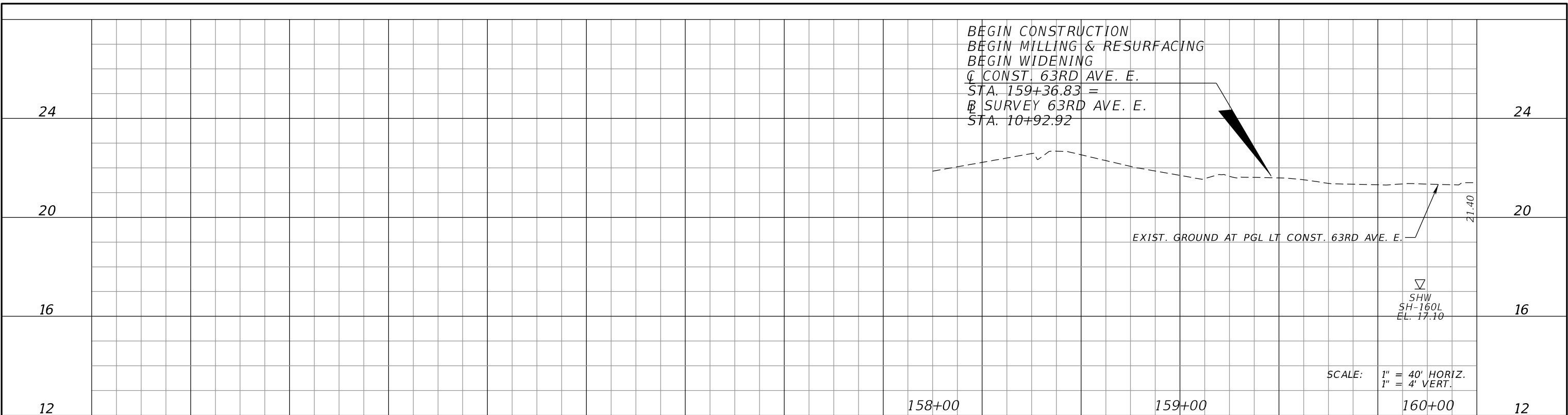
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			CHECKED BY	JPH	6107860

PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

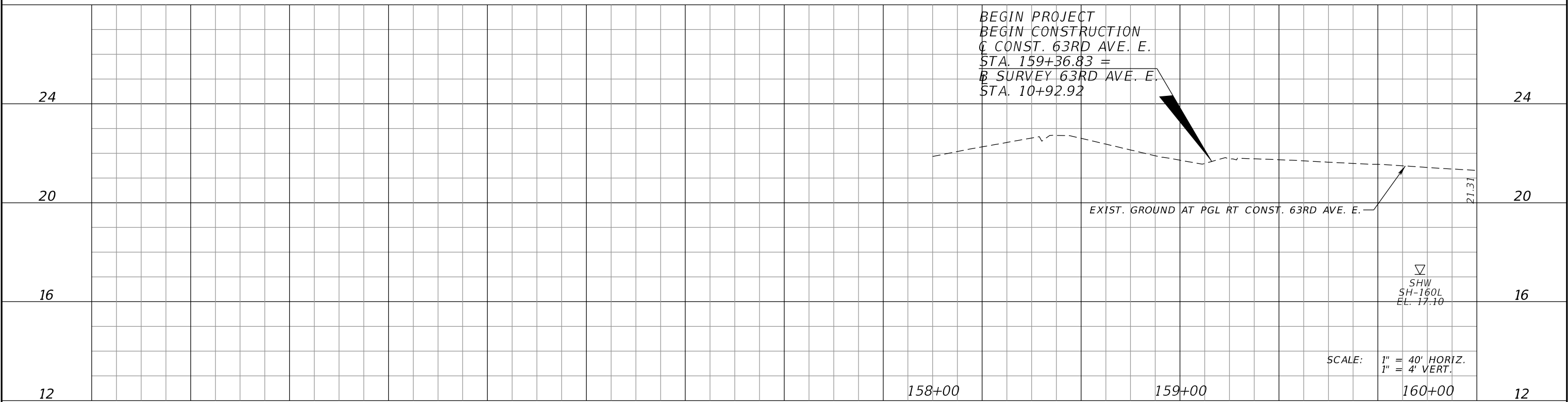
DRAINAGE PLAN (14)

SHEET NO.



LEFT PROFILE GRADE LINE

RIGHT PROFILE GRADE LINE



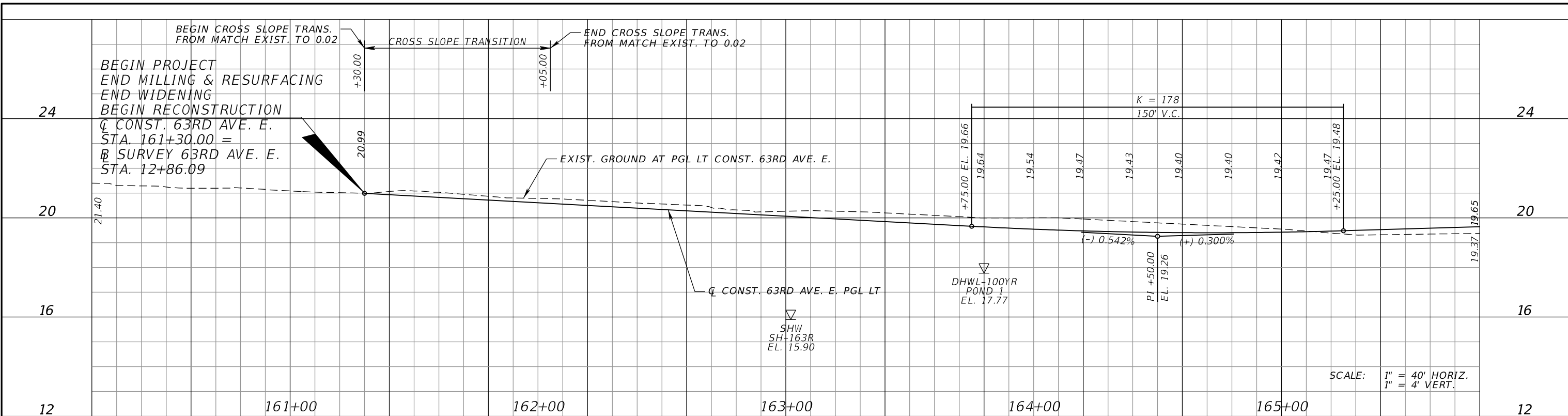
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 ADAM S. PEREZ, P.E.
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 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

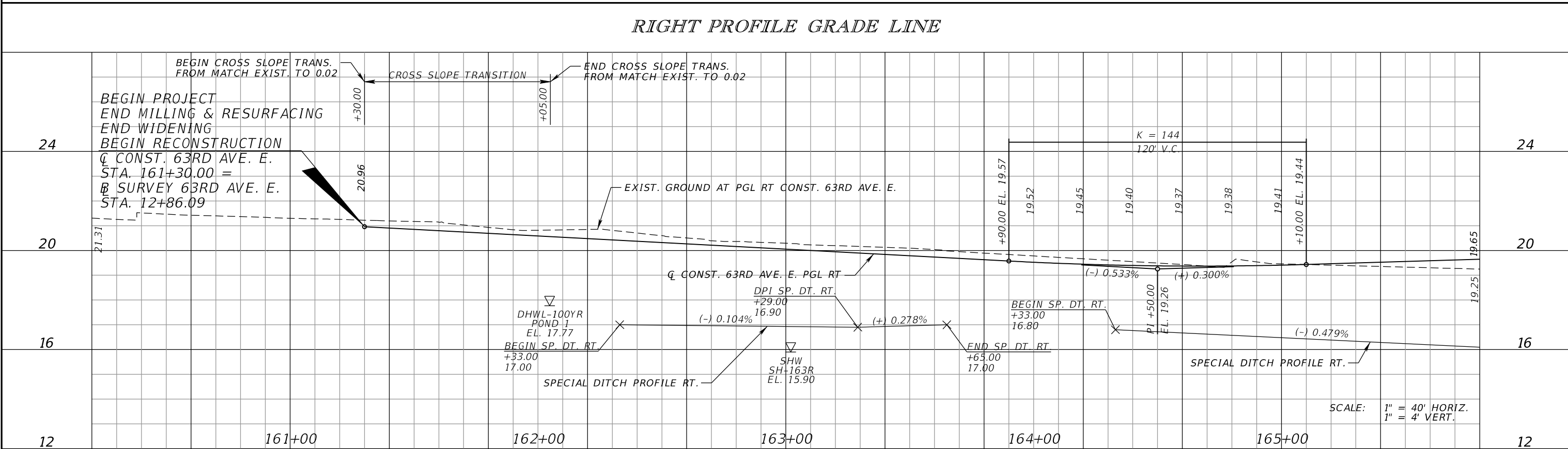
Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
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ROADWAY PROFILE (1)

SHEET NO.



LEFT PROFILE GRADE LINE



RIGHT PROFILE GRADE LINE

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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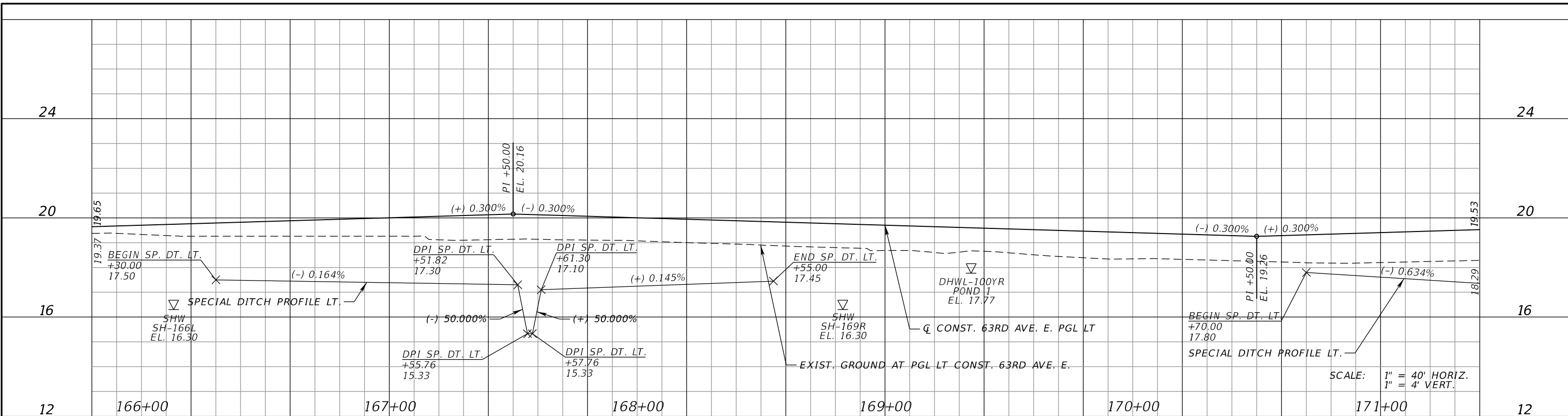
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 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

ROADWAY PROFILE (2)

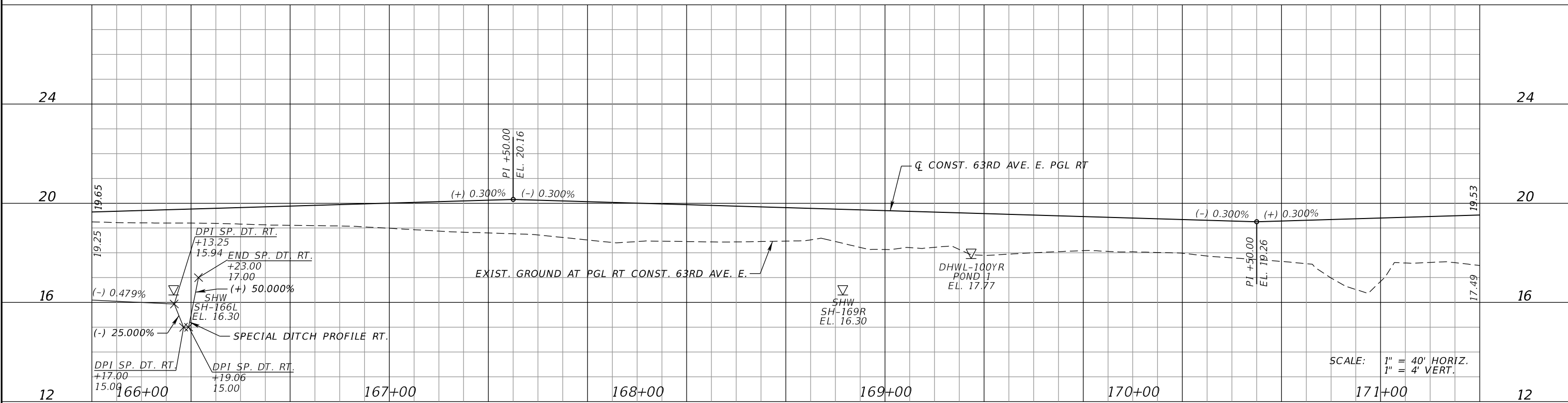
SHEET NO.

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LEFT PROFILE GRADE LINE

RIGHT PROFILE GRADE LINE



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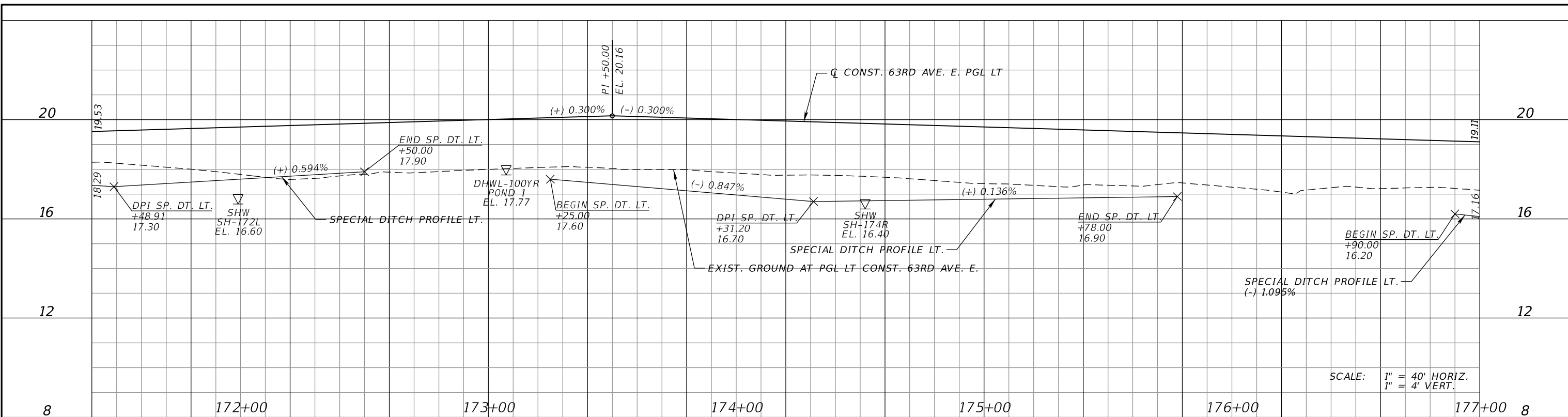
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 FLORIDA
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 1022 26th Avenue East
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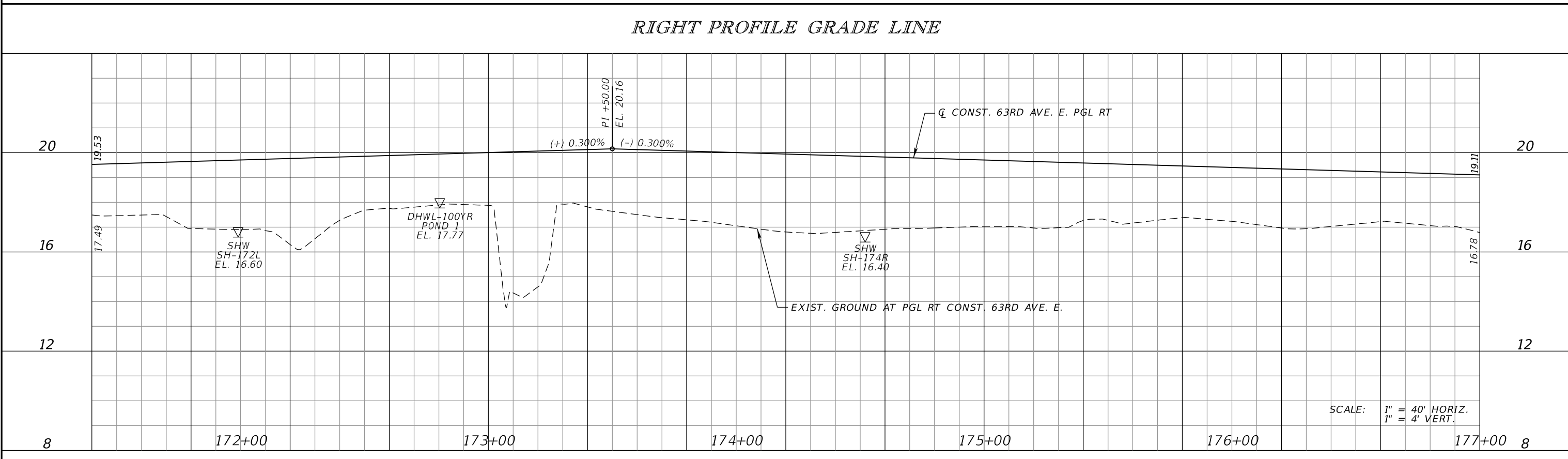
ROADWAY PROFILE (3)

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LEFT PROFILE GRADE LINE



RIGHT PROFILE GRADE LINE

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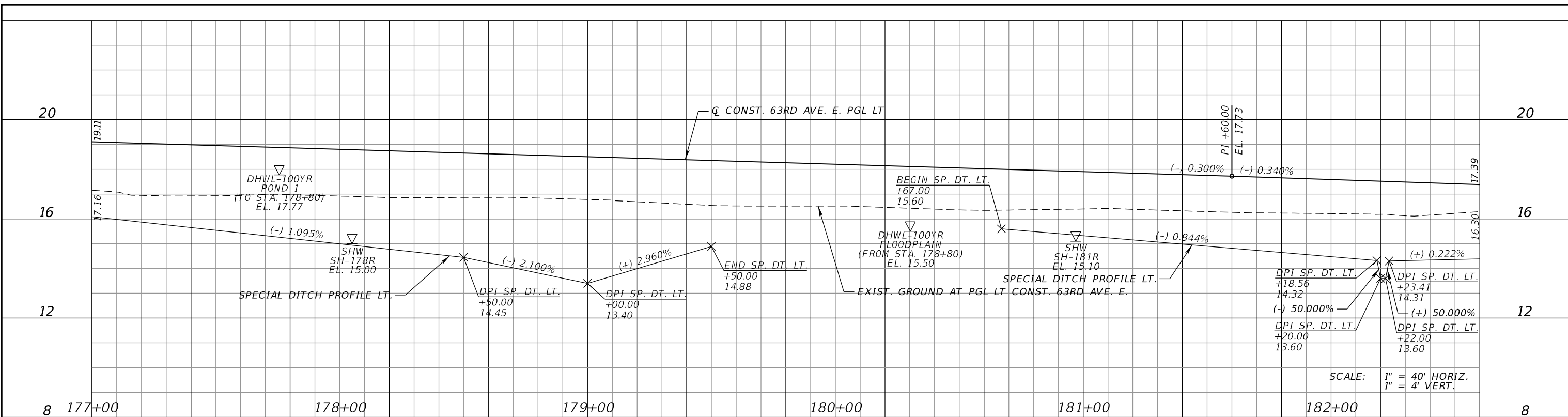
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Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

ROADWAY PROFILE (4)

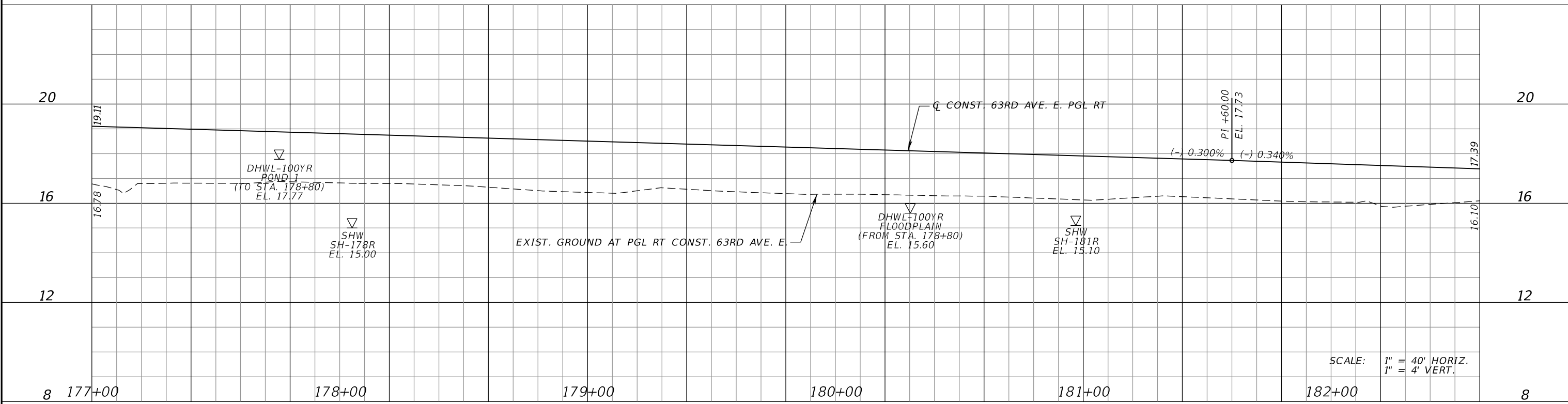
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LEFT PROFILE GRADE LINE

RIGHT PROFILE GRADE LINE



NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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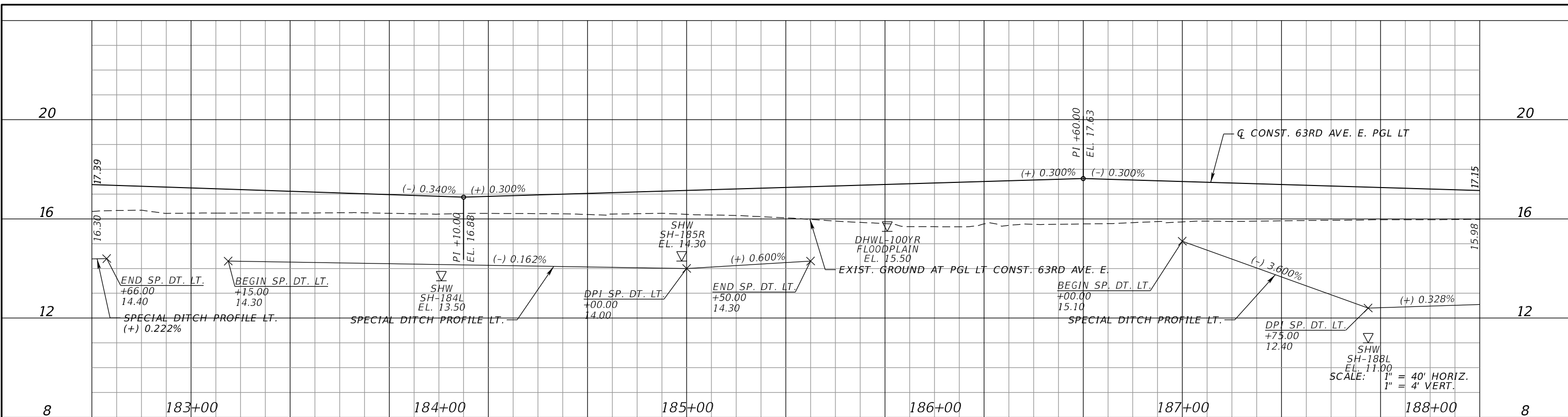
PGA
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Manatee County
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 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
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ROADWAY PROFILE (5)

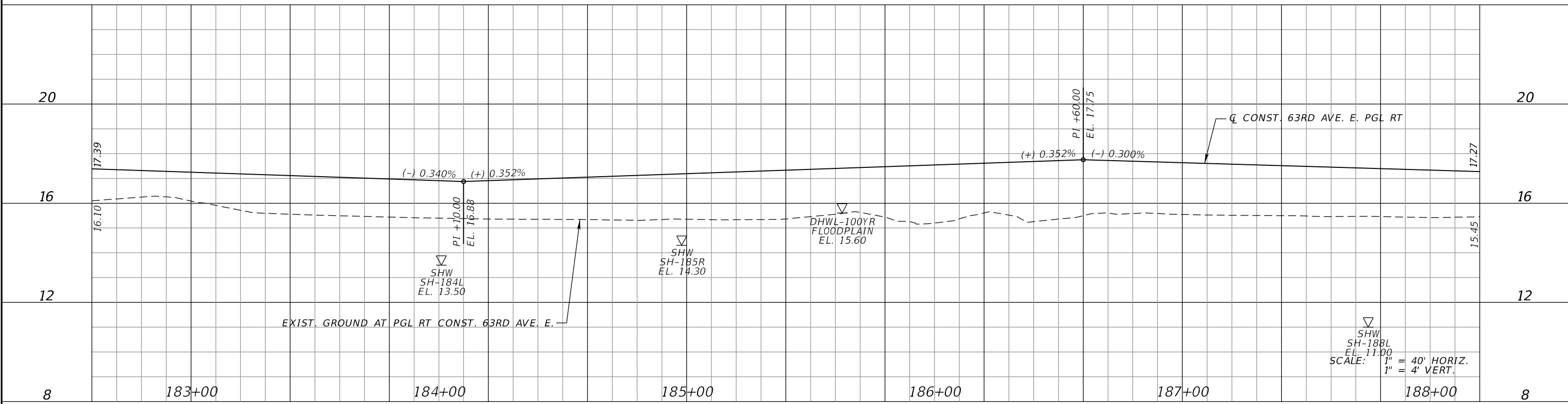
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LEFT PROFILE GRADE LINE

RIGHT PROFILE GRADE LINE



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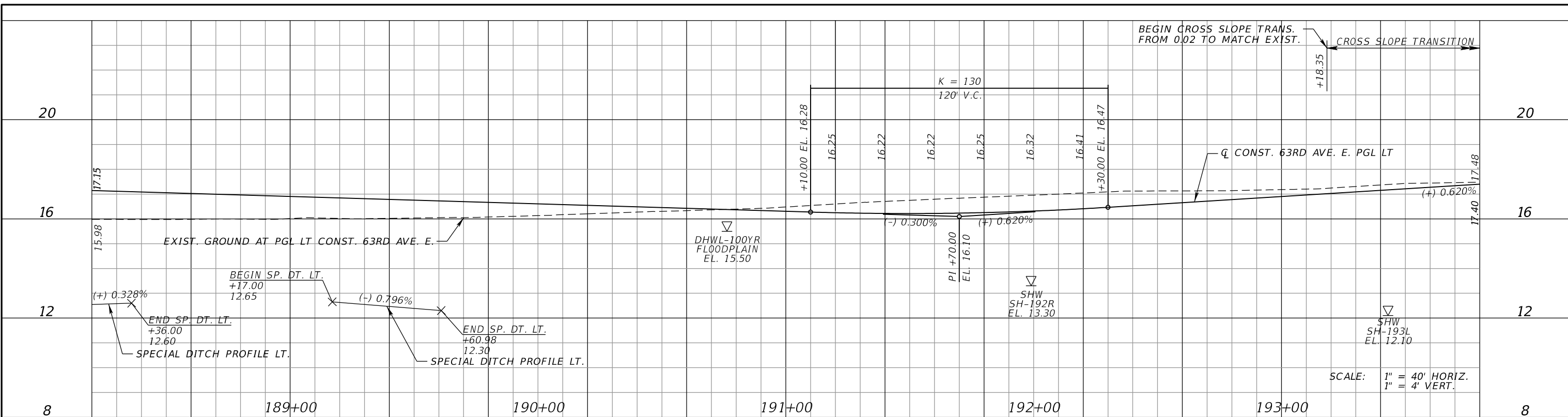
PGA
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 1022 26th Avenue East
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ROADWAY PROFILE (6)

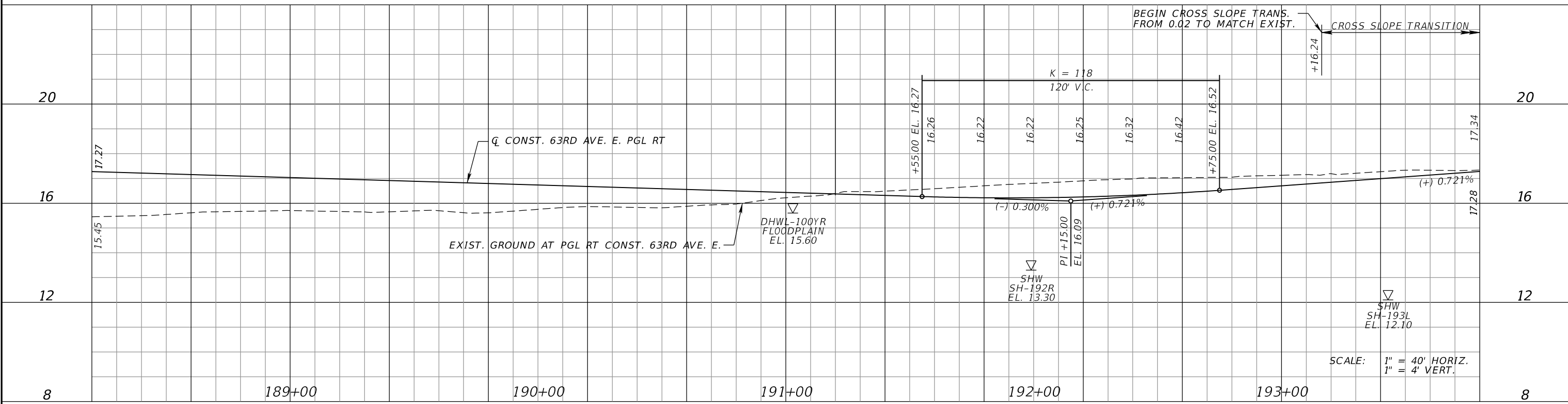
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LEFT PROFILE GRADE LINE

RIGHT PROFILE GRADE LINE



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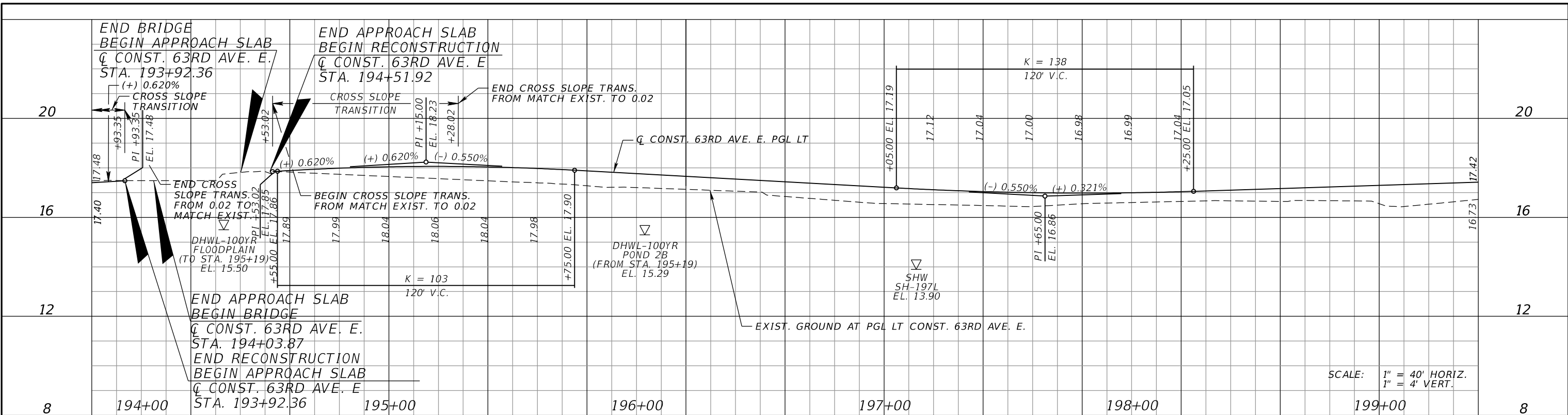
PGA
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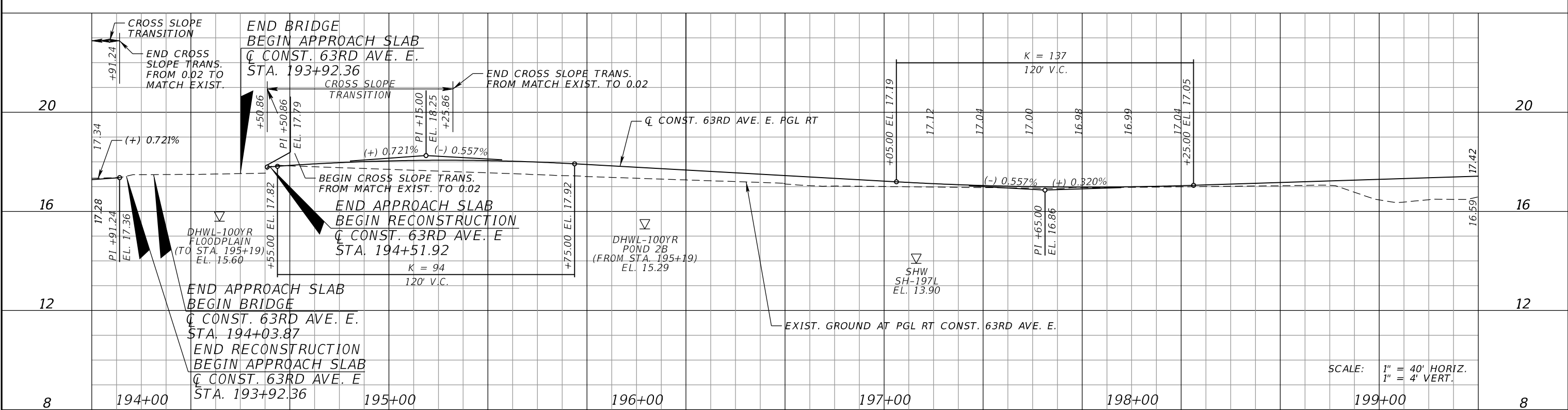
ROADWAY PROFILE (7)

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RIGHT PROFILE GRADE LINE



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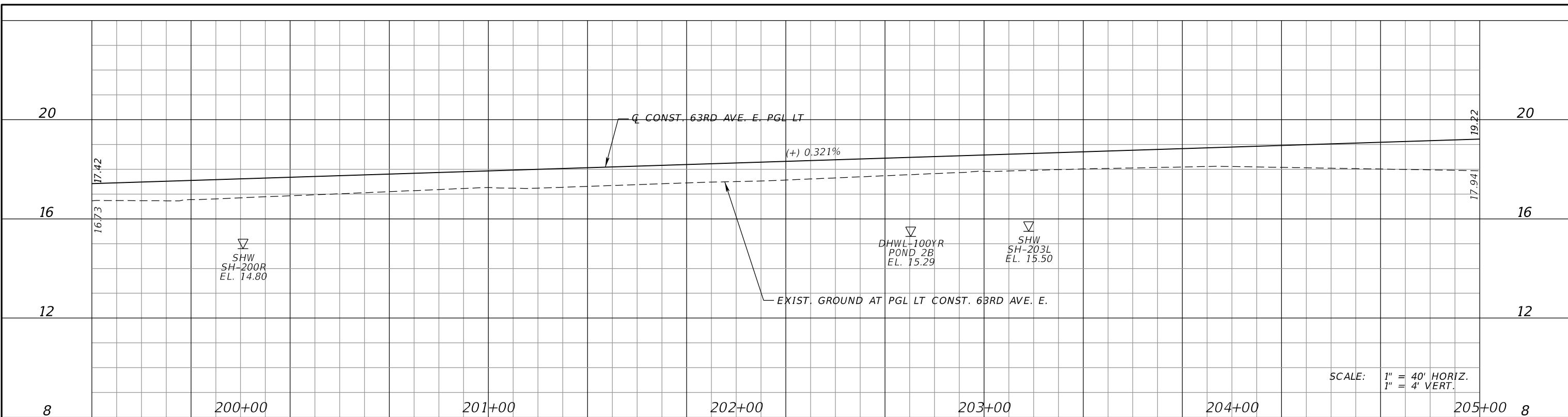
PGA ADAM S. PEREZ, P.E.
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Manatee County PUBLIC WORKS DEPARTMENT
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 1022 26th Avenue East
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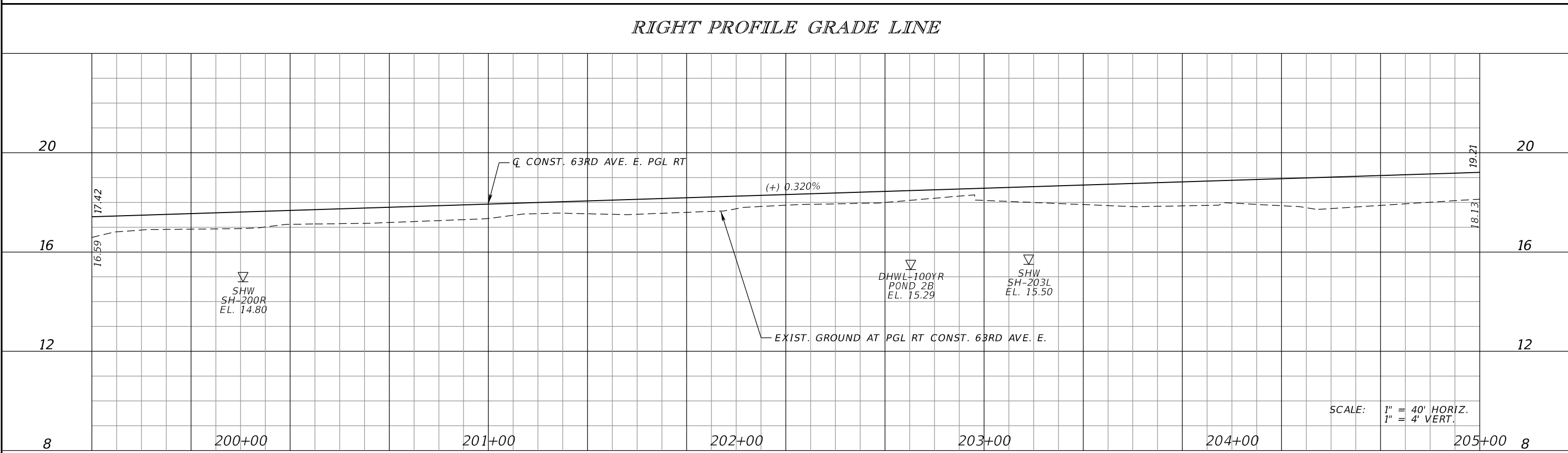
ROADWAY PROFILE (8)

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LEFT PROFILE GRADE LINE



RIGHT PROFILE GRADE LINE

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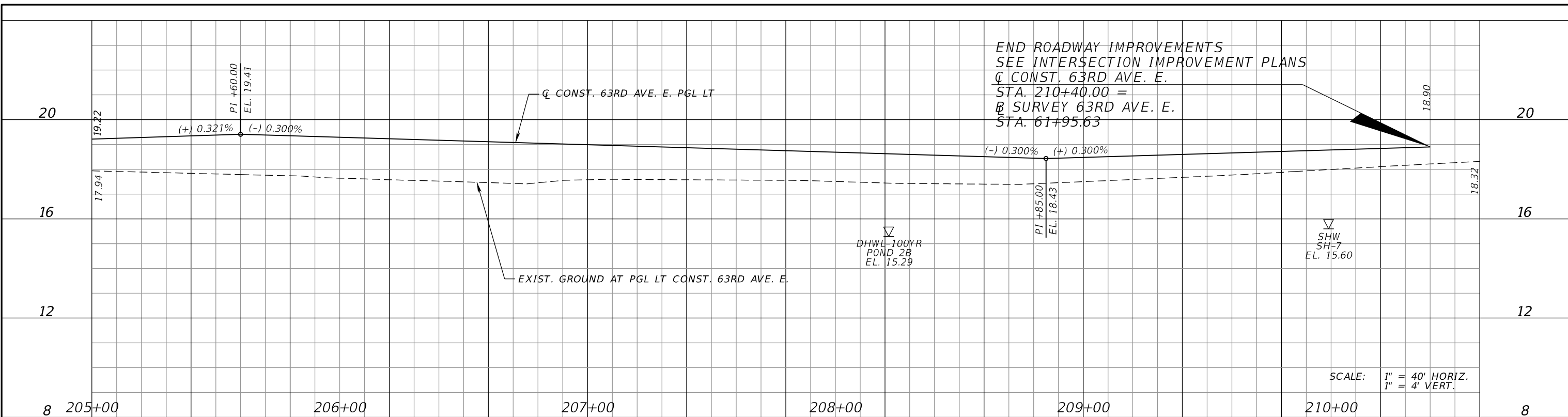
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 Bradenton, FL 34208

ROADWAY PROFILE (9)

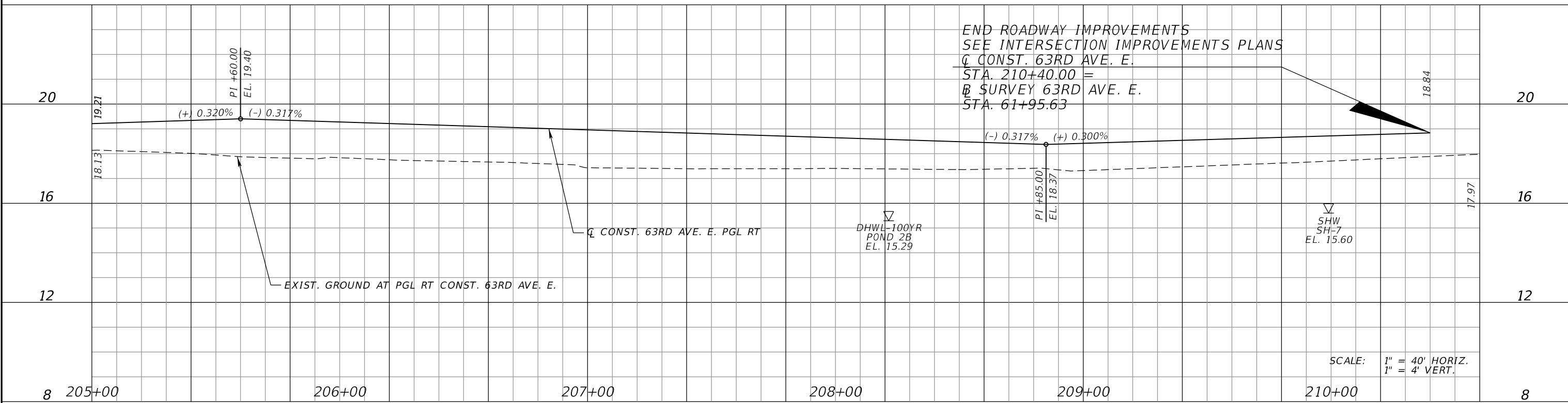
SHEET NO.

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LEFT PROFILE GRADE LINE

RIGHT PROFILE GRADE LINE



NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	DP	PROJECT NO.
			CHECKED BY	JPH	6107860

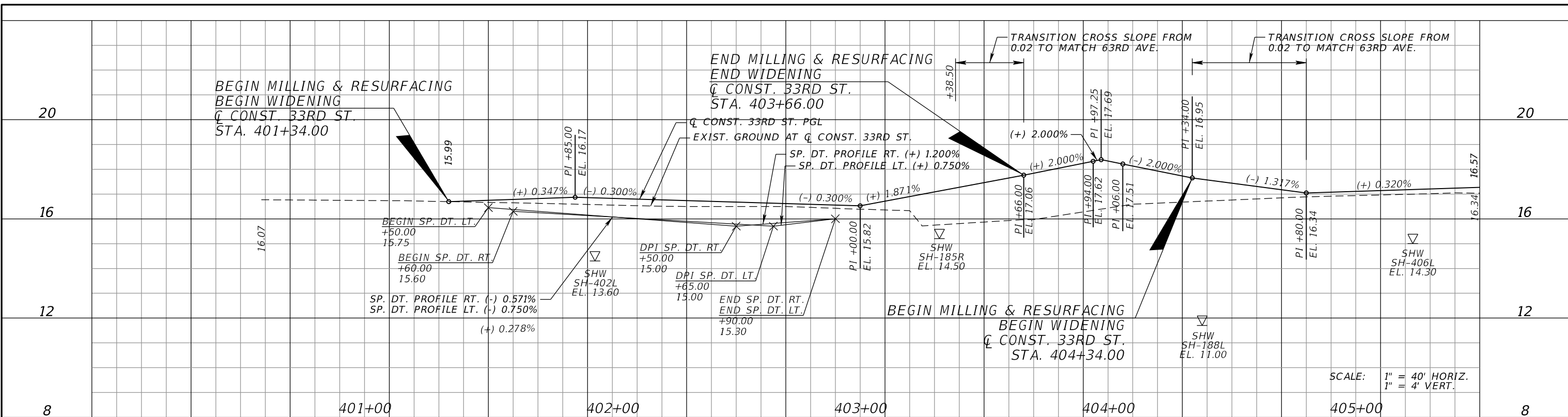
PGA ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

ROADWAY PROFILE (10)

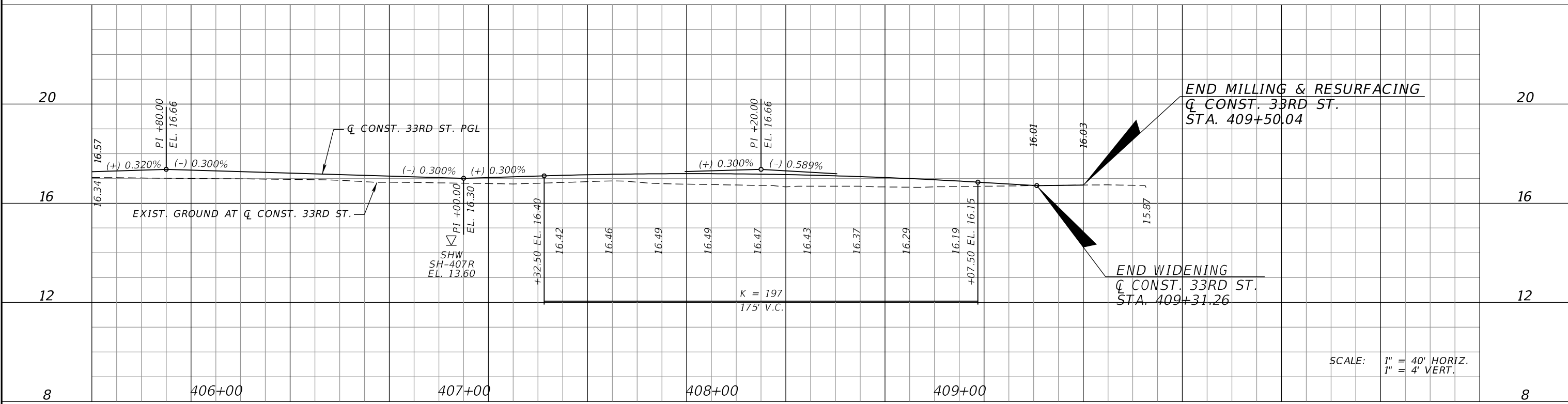
SHEET NO.

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



33RD STREET PROFILE GRADE LINE

33RD STREET PROFILE GRADE LINE



NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	DP	PROJECT NO.
			CHECKED BY	JPH	6107860

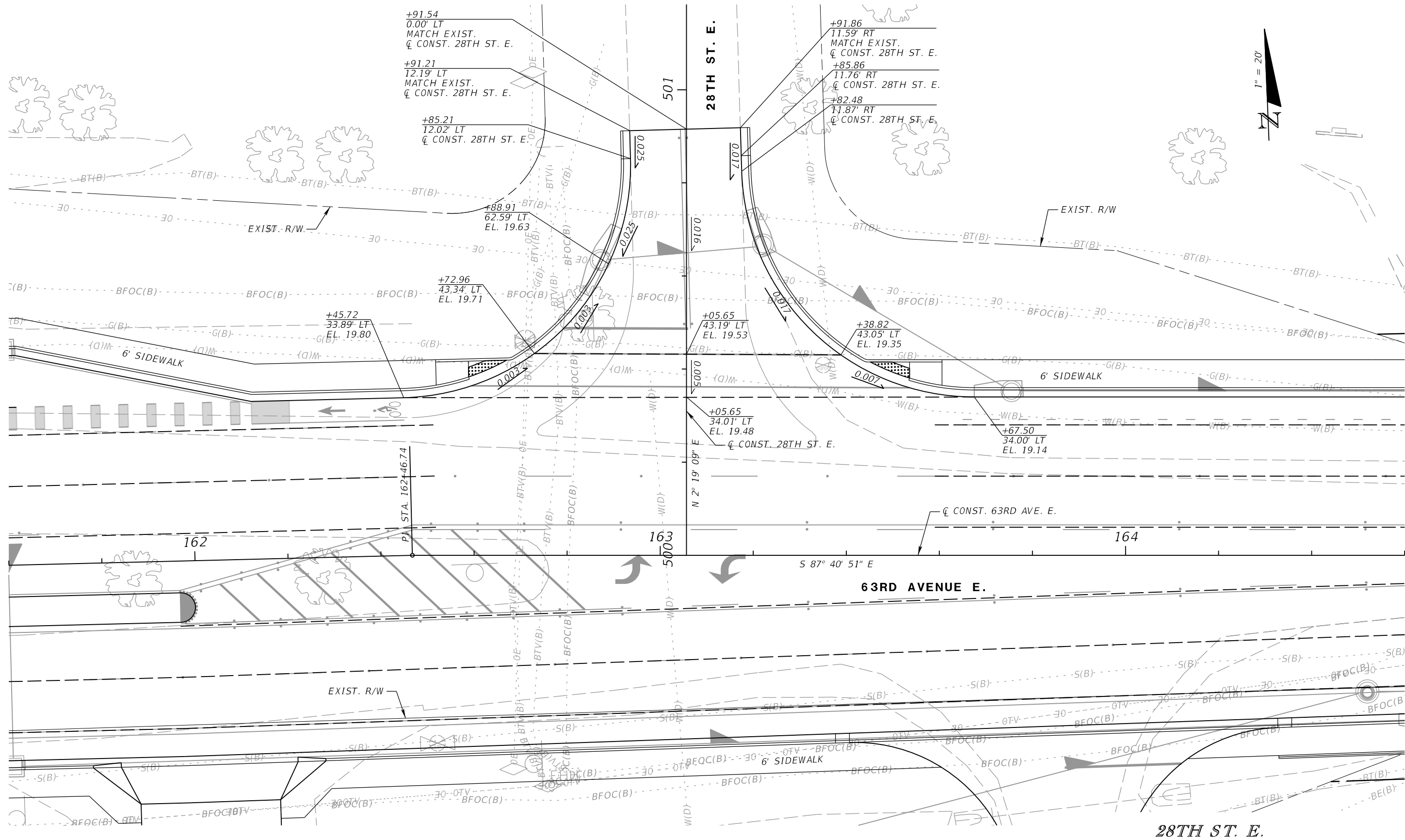
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

ROADWAY PROFILE (11)

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NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860



ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

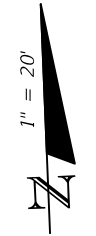
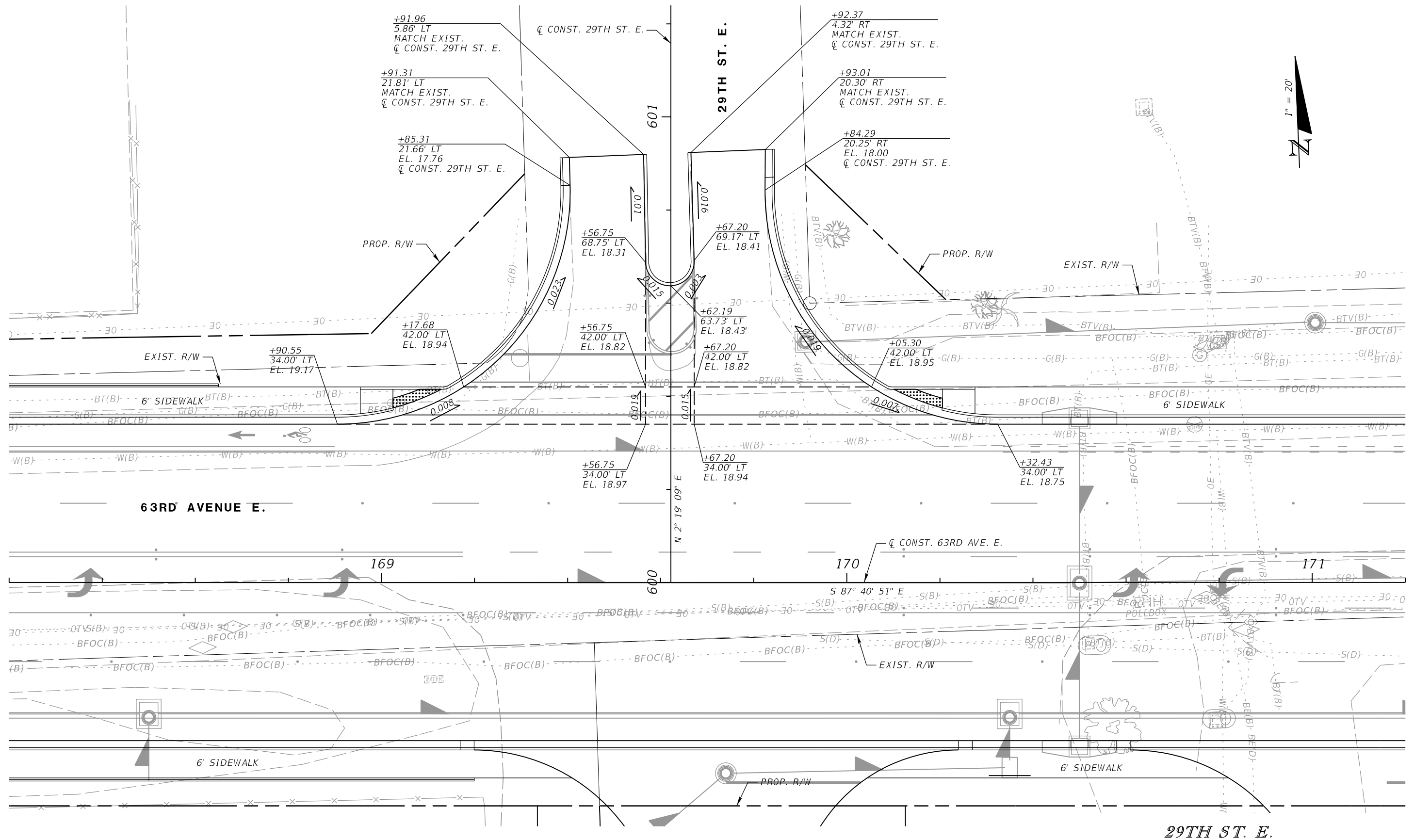


PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

INTERSECTION DETAILS (1)

SHEET NO.

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NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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	DRAWN BY			JM	PROJECT NO.
	CHECKED BY			JPH	6107860

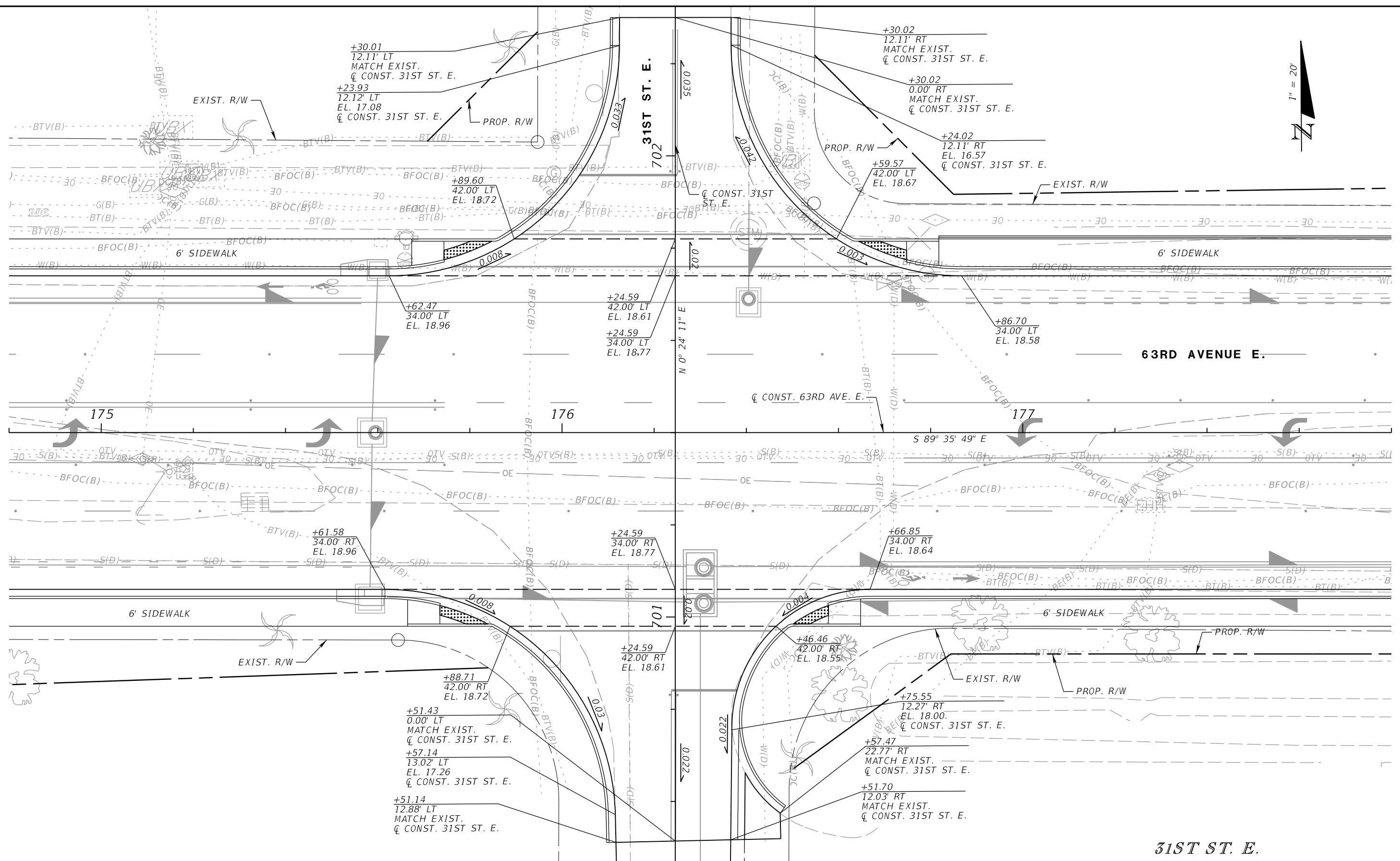
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
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 1022 26th Avenue East
 Bradenton, FL 34208

INTERSECTION DETAILS (2)

SHEET NO.

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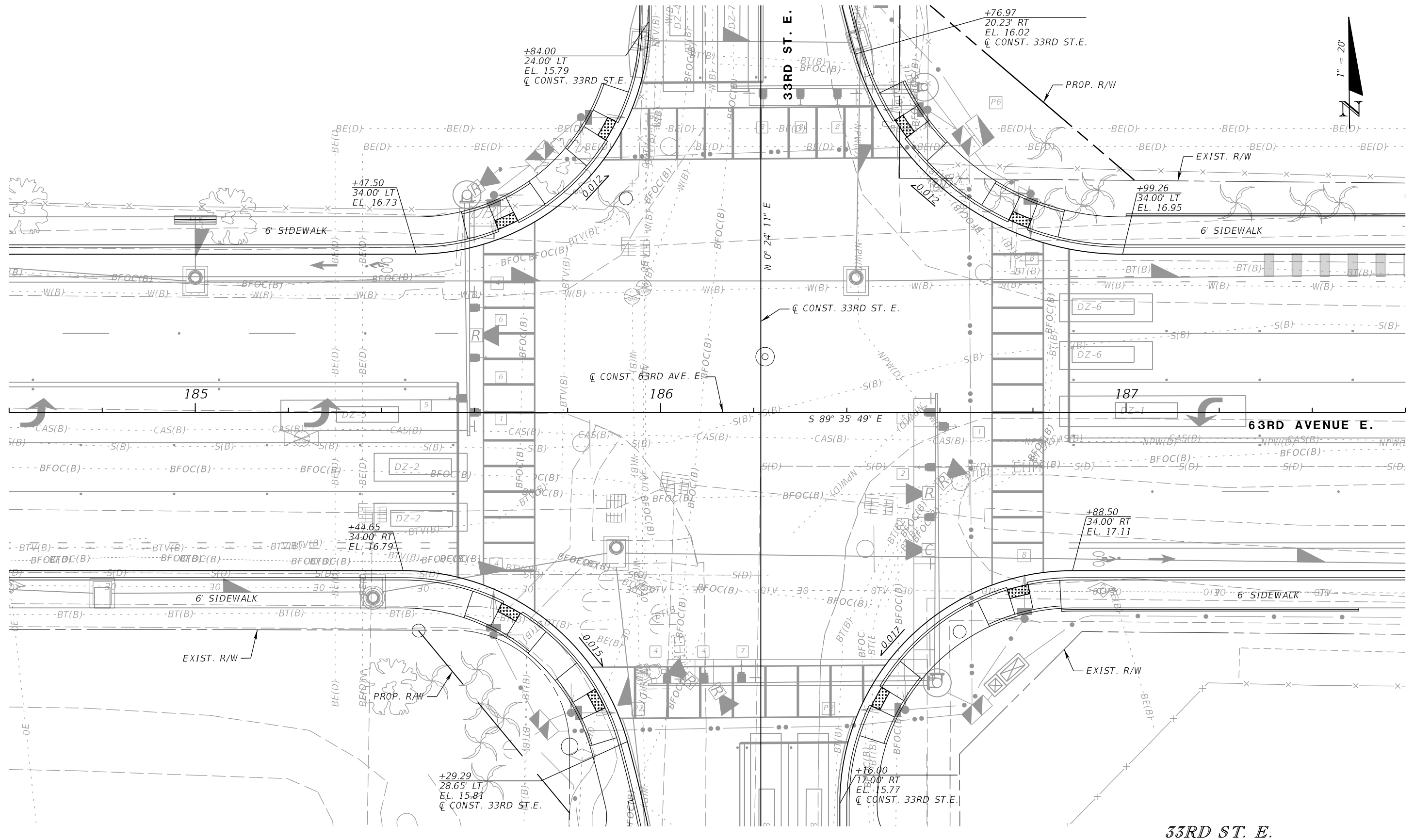
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
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PGA ADAM S. PEREZ, P.E.
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INTERSECTION DETAILS (3)

SHEET NO.



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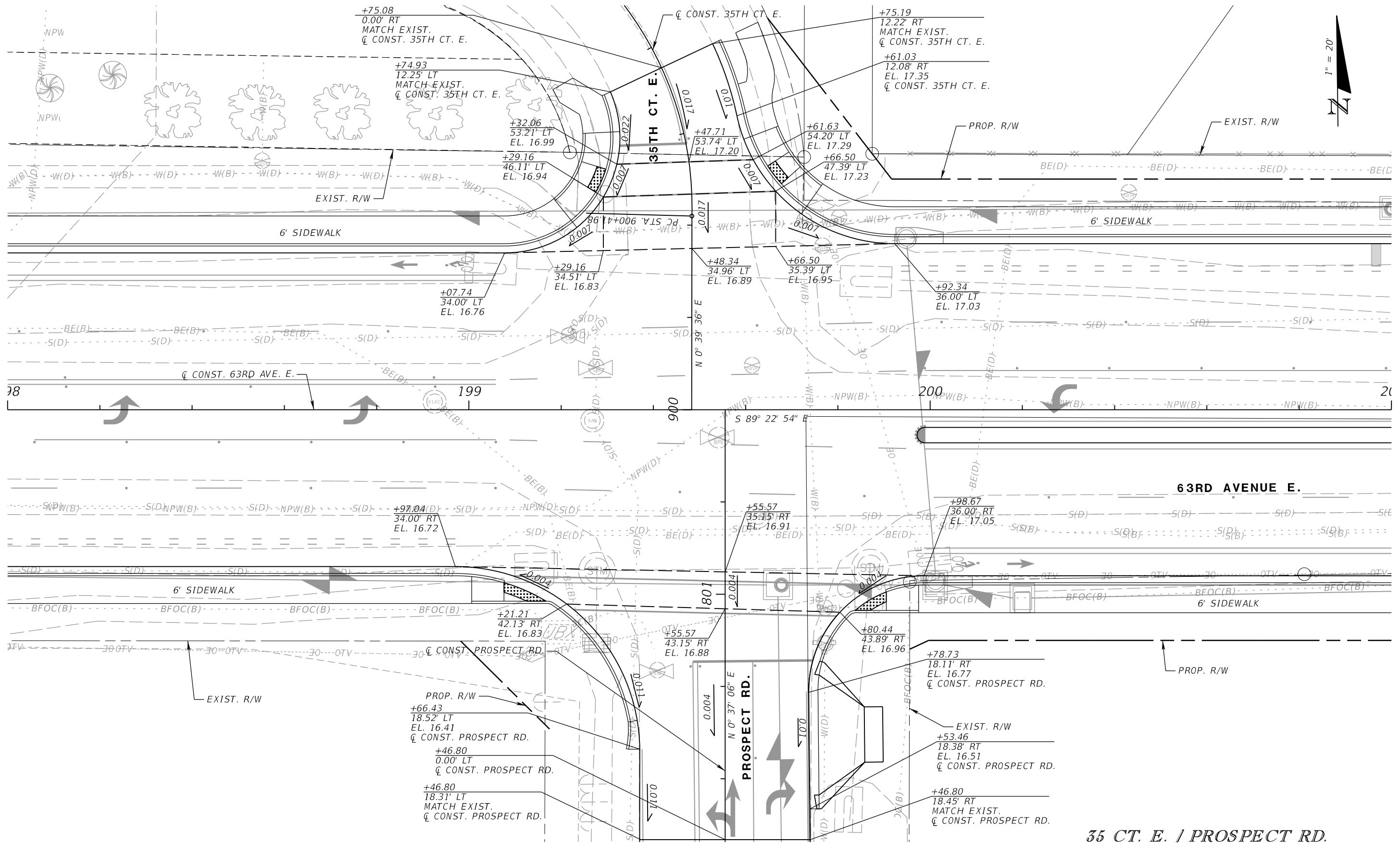
ADAM S. PEREZ, P.E.
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 PATEL, GREENE & ASSOCIATES, LLC
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INTERSECTION DETAILS (4)

SHEET NO.



35 CT. E. / PROSPECT RD.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

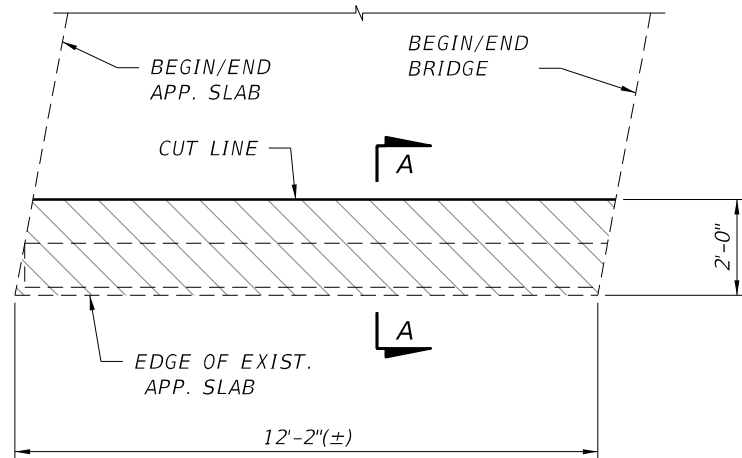
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
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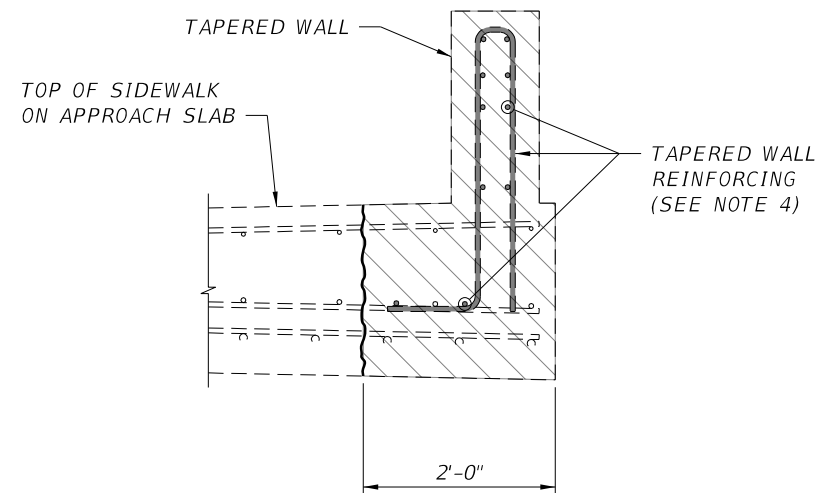
INTERSECTION DETAILS (5)

SHEET NO.

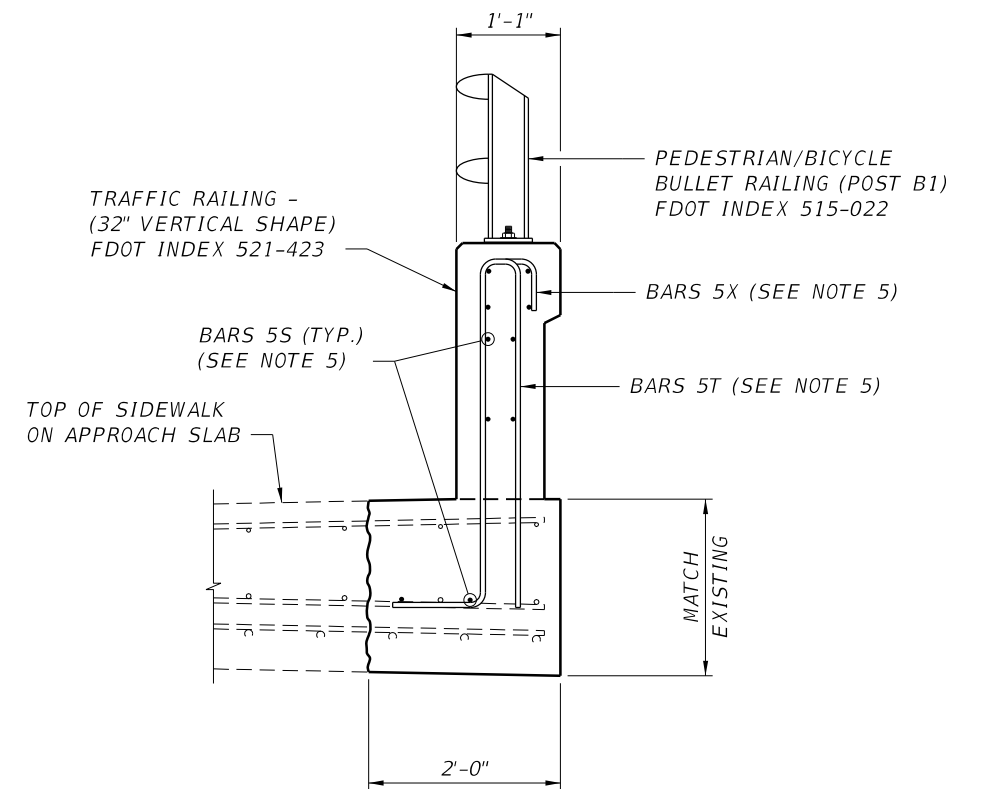
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



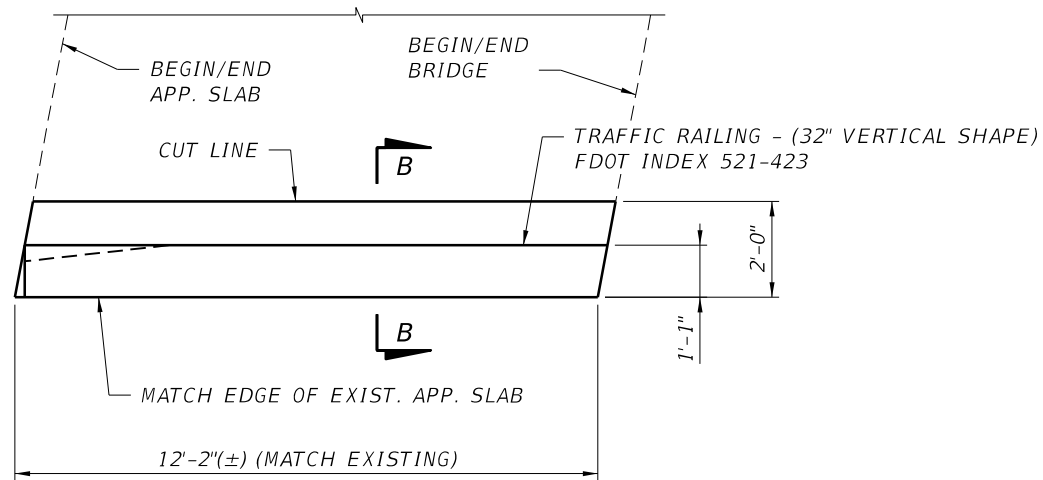
PARTIAL APPROACH SLAB PLAN - EXISTING
 (APPROACH SLAB AT BEGIN BRIDGE SHOWN;
 APPROACH SLAB AT END BRIDGE SIMILAR)
 (REINFORCING STEEL NOT SHOWN FOR CLARITY)



SECTION A-A



SECTION B-B



PARTIAL APPROACH SLAB PLAN - MODIFIED
 (APPROACH SLAB AT BEGIN BRIDGE SHOWN;
 APPROACH SLAB AT END BRIDGE SIMILAR)
 (REINFORCING STEEL NOT SHOWN FOR CLARITY)

LEGEND:

INDICATES PORTION OF EXISTING APPROACH SLAB AND TAPERED WALL WITH RAILING TO BE REMOVED.

NOTES:

1. FOR APPROACH SLAB MODIFICATION LOCATIONS, SEE ROADWAY PLAN (8).
2. CONCRETE: CLASS II
REINFORCING STEEL: GRADE 60 CARBON STEEL IN ACCORDANCE WITH SPECIFICATION 931.
3. MATCH EXISTING SIDEWALK SURFACE FINISH.
4. EXISTING TAPERED WALL REINFORCING TO BE REMOVED. EXISTING APPROACH SLAB REINFORCING TO REMAIN IN PLACE. CLEAN BARS, STRAIGHTEN AND EMBED INTO THE APPROACH SLAB MODIFICATION.
5. BARS 5S, 5T AND 5X ARE INCIDENTAL TO TRAFFIC RAILING BARRIER. FOR DETAILS SEE FDOT INDEX 521-423.
6. REPLACE EXPANSION JOINT WITHIN LIMITS OF RECONSTRUCTION OF APPROACH SLAB PER FDOT INDEX 458-110. SIDEWALK COVER PLATES ARE NOT REQUIRED.

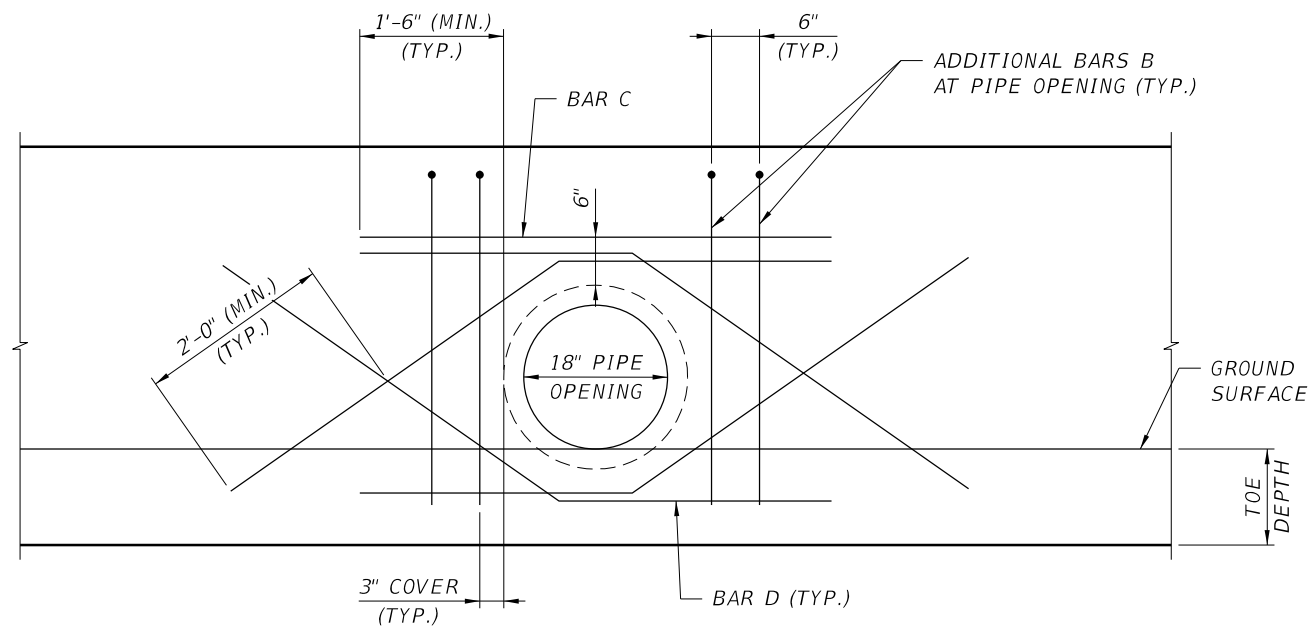
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	JF	11/2022
			DRAWN BY	DET	PROJECT NO.
			CHECKED BY	MSL	6107860

PGA JOHNNY FUNG, P.E.
 LICENSE NUMBER 64669
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

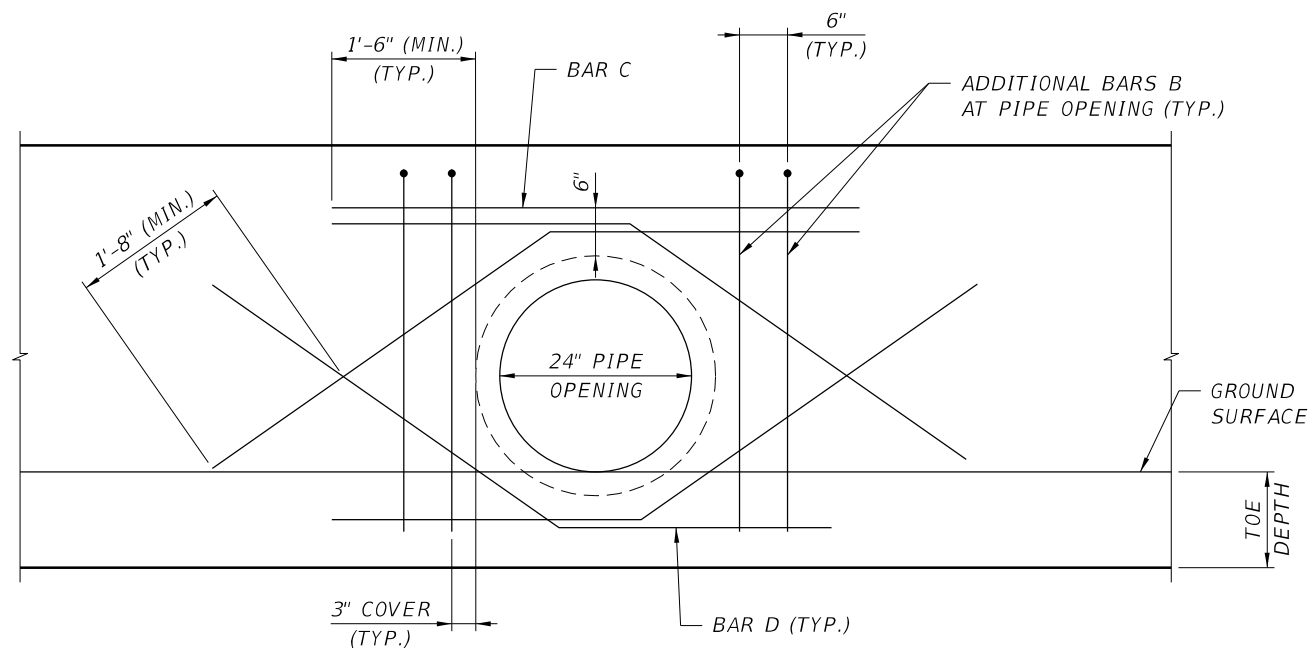
Manatee County PUBLIC WORKS DEPARTMENT
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 1022 26th Avenue East
 Bradenton, FL 34208

**APPROACH SLAB
 MODIFICATION DETAILS**

SHEET NO.



ADDITIONAL REINFORCING AT 18" PIPE OPENING
 (DETAIL APPLIES AT STRUCTURES S-14, S-17, S-47, S-53, S-66 AND S-72)



ADDITIONAL REINFORCING AT 24" PIPE OPENING
 (DETAIL APPLIES AT STRUCTURE S-12)

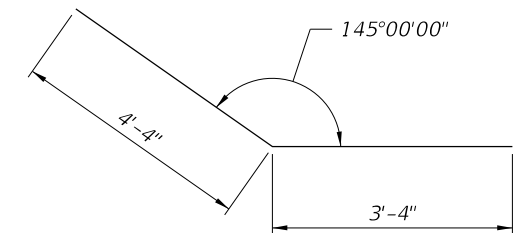
**BILL OF REINFORCING STEEL
 AT 18" PIPE OPENING (6 REQUIRED)**

SIZE	MARK	NO. REQUIRED	LENGTH
4	C	1	5'-0"
4	D	4	SEE DIAGRAM

**BILL OF REINFORCING STEEL
 AT 24" PIPE OPENING (1 REQUIRED)**

SIZE	MARK	NO. REQUIRED	LENGTH
4	C	1	5'-6"
4	D	4	SEE DIAGRAM

BAR BENDING DIAGRAM



BAR D

NOTE:

1. ALL BAR DIMENSIONS ARE OUT-TO-OUT.

NOTES:

1. WORK THIS SHEET WITH FDOT INDEX 400-011, CROSS SECTION SHEETS IN THE VICINITY OF THE DRAINAGE STRUCTURES AND DRAINAGE STRUCTURE SHEETS FOR THE APPLICABLE DRAINAGE STRUCTURES.
2. CUT GRAVITY WALL REINFORCING IN CONFLICT WITH PIPE OPENING TO MAINTAIN 3" MINIMUM CLEARANCE FROM EXTERIOR PIPE WALL.
3. GRAVITY WALL JOINTS SHALL BE NO CLOSER THAN 5'-0" FROM THE ϕ OF PIPE OPENING.

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 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

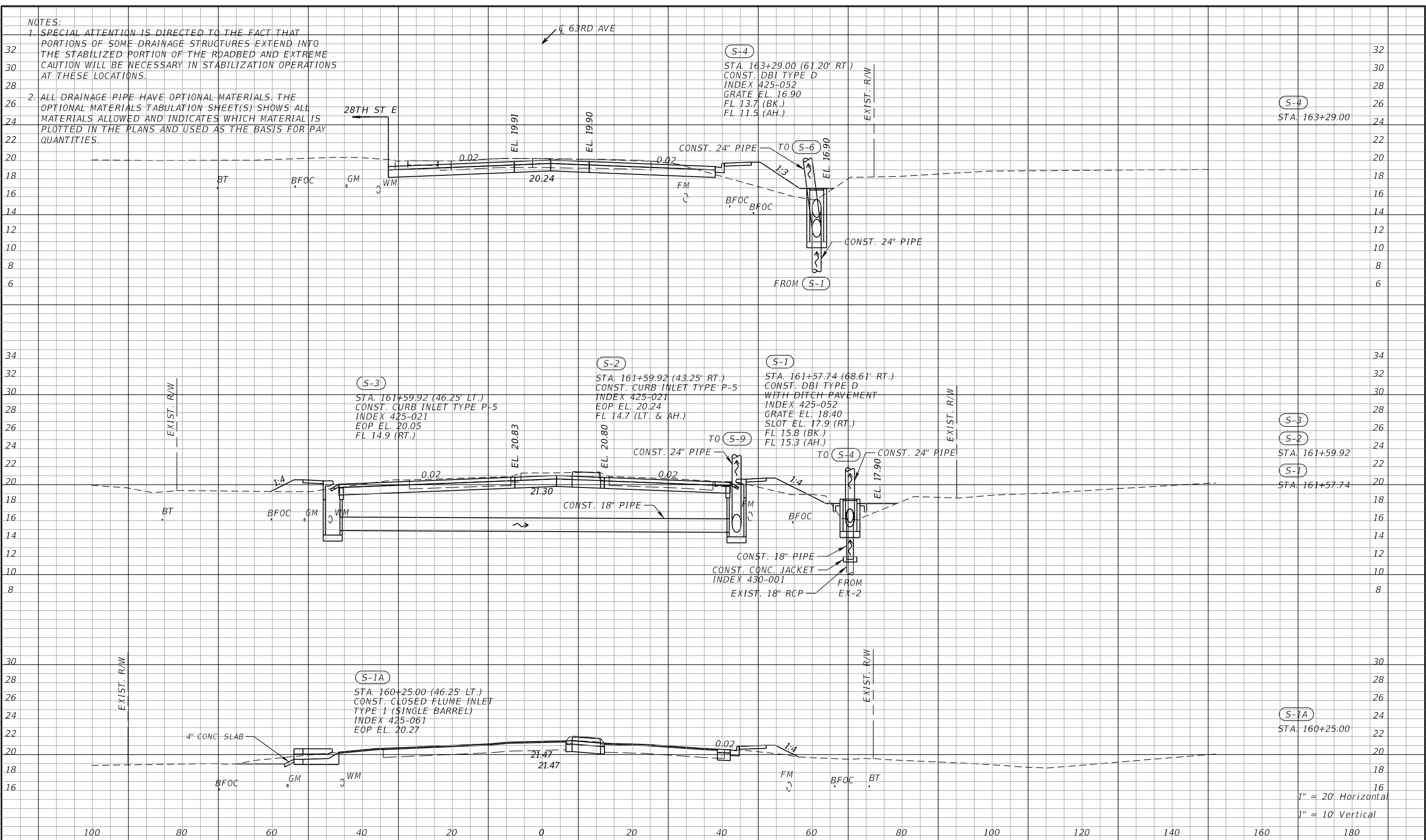
Manatee County PUBLIC WORKS DEPARTMENT
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 1022 26th Avenue East
 Bradenton, FL 34208

**GRAVITY WALL
 PIPE OPENING DETAILS**

SHEET NO.

NOTES:
 1. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THESE LOCATIONS.
 2. ALL DRAINAGE PIPE HAVE OPTIONAL MATERIALS. THE OPTIONAL MATERIALS TABULATION SHEET(S) SHOWS ALL MATERIALS ALLOWED AND INDICATES WHICH MATERIAL IS PLOTTED IN THE PLANS AND USED AS THE BASIS FOR PAY QUANTITIES.

63RD AVE



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

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	09/2022
			DRAWN BY	DKA	PROJECT NO.
			CHECKED BY	TAP	6107860

RCA
 RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

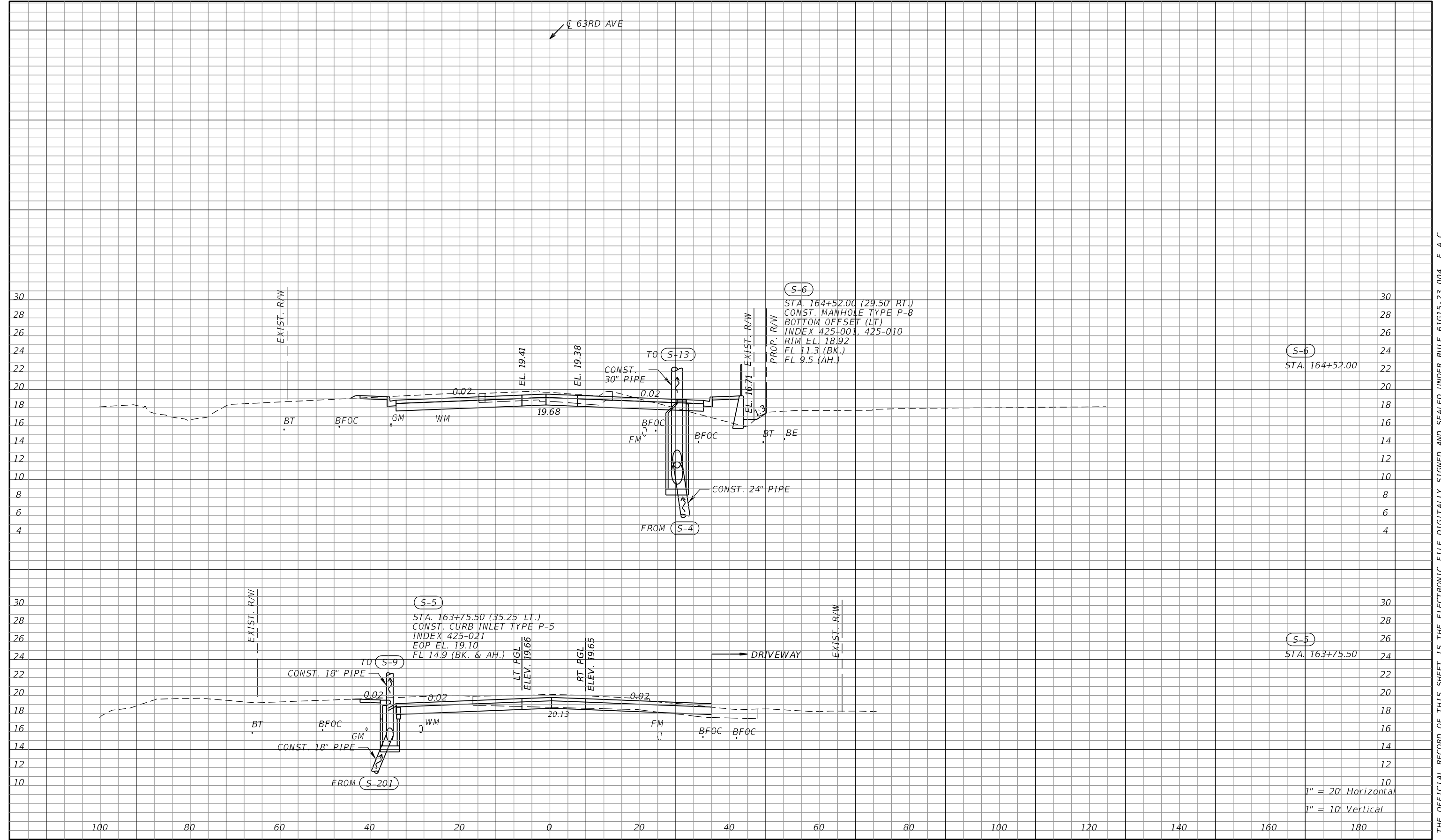
Manatee County
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 1022 26th Avenue East
 Bradenton, FL 34208

DRAINAGE STRUCTURES (1)
63RD AVE E

SHEET NO.

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← 63RD AVE



(S-6)
STA. 164+52.00

(S-6)
STA. 164+52.00 (29.50' RT.)
CONST. MANHOLE TYPE P-8
BOTTOM OFFSET (LT)
INDEX 425-001, 425-010
RIM EL. 18.92
FL 11.3 (BK.)
FL 9.5 (AH.)

(S-5)
STA. 163+75.50 (35.25' LT.)
CONST. CURB INLET TYPE P-5
INDEX 425-021
EOP EL. 19.10
FL 14.9 (BK. & AH.)

(S-5)
STA. 163+75.50

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

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			CHECKED BY	TAP	6107860

RGA
RICHARD D. UPTGRAFF, P.E.
LICENSE NUMBER 58789
PATEL, GREENE & ASSOCIATES, LLC
7020 PROFESSIONAL PARKWAY E
SUITE 104
SARASOTA, FL 34240

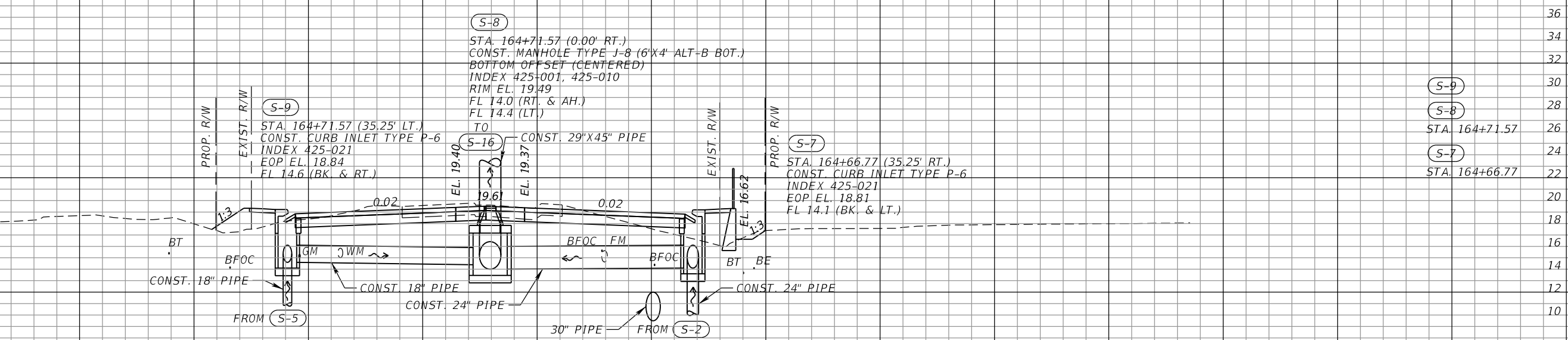
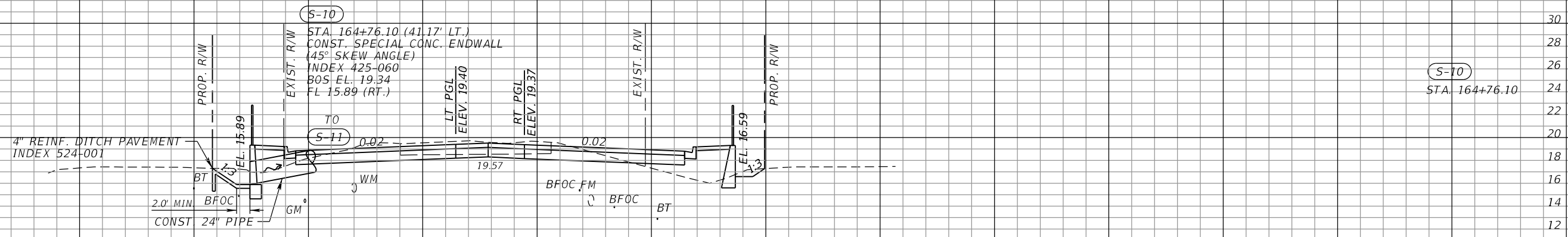
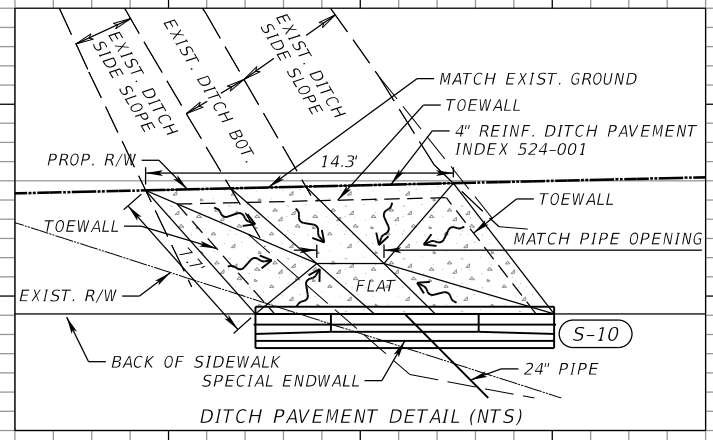
Manatee County
FLORIDA
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ENGINEERING SERVICES
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DRAINAGE STRUCTURES (2)
63RD AVE E

SHEET NO.

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63RD AVE



S-10
STA. 164+76.10

S-9
STA. 164+71.57
S-8
S-7
STA. 164+66.77

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

100 80 60 40 20 0 20 40 60 80 100 120 140 160 180

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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7020 PROFESSIONAL PARKWAY E
SUITE 104
SARASOTA, FL 34240

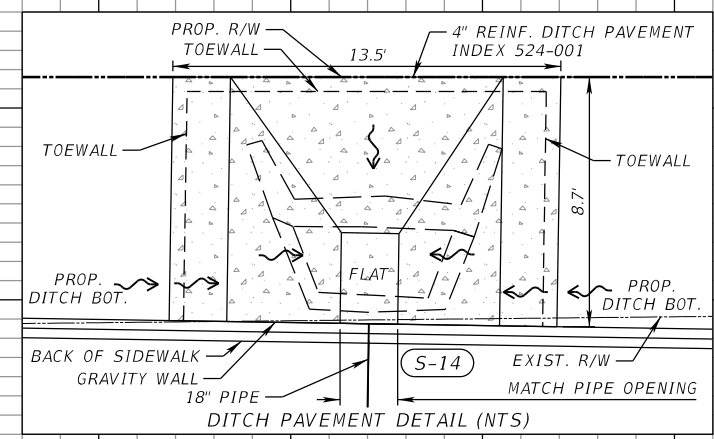
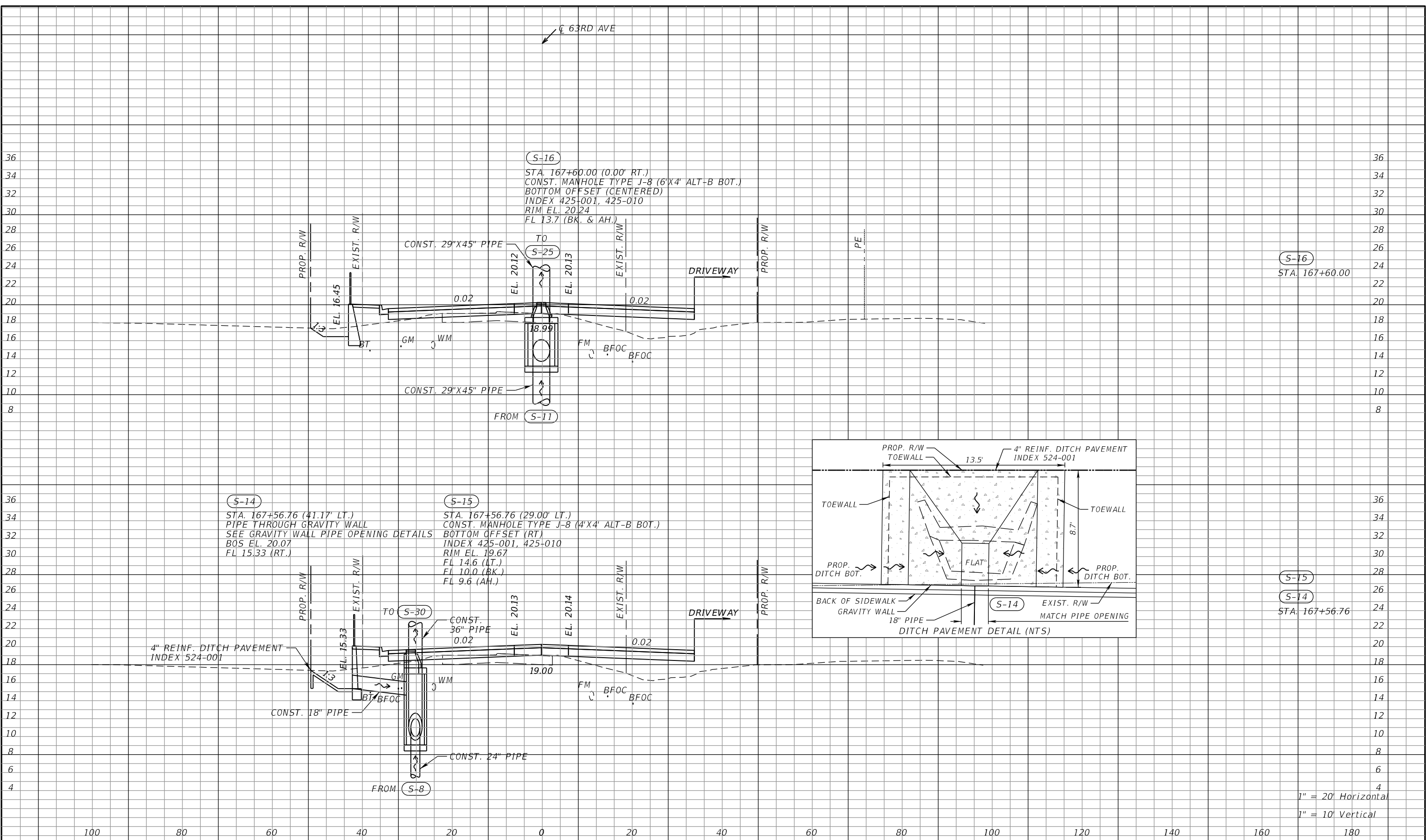
Manatee County
PUBLIC WORKS DEPARTMENT
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DRAINAGE STRUCTURES (3)
63RD AVE E

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63RD AVE



S-16
STA. 167+60.00

S-15
S-14
STA. 167+56.76

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

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				RDU	09/2022
				DKA	PROJECT NO.
				TAP	6107860

PC&A
 RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

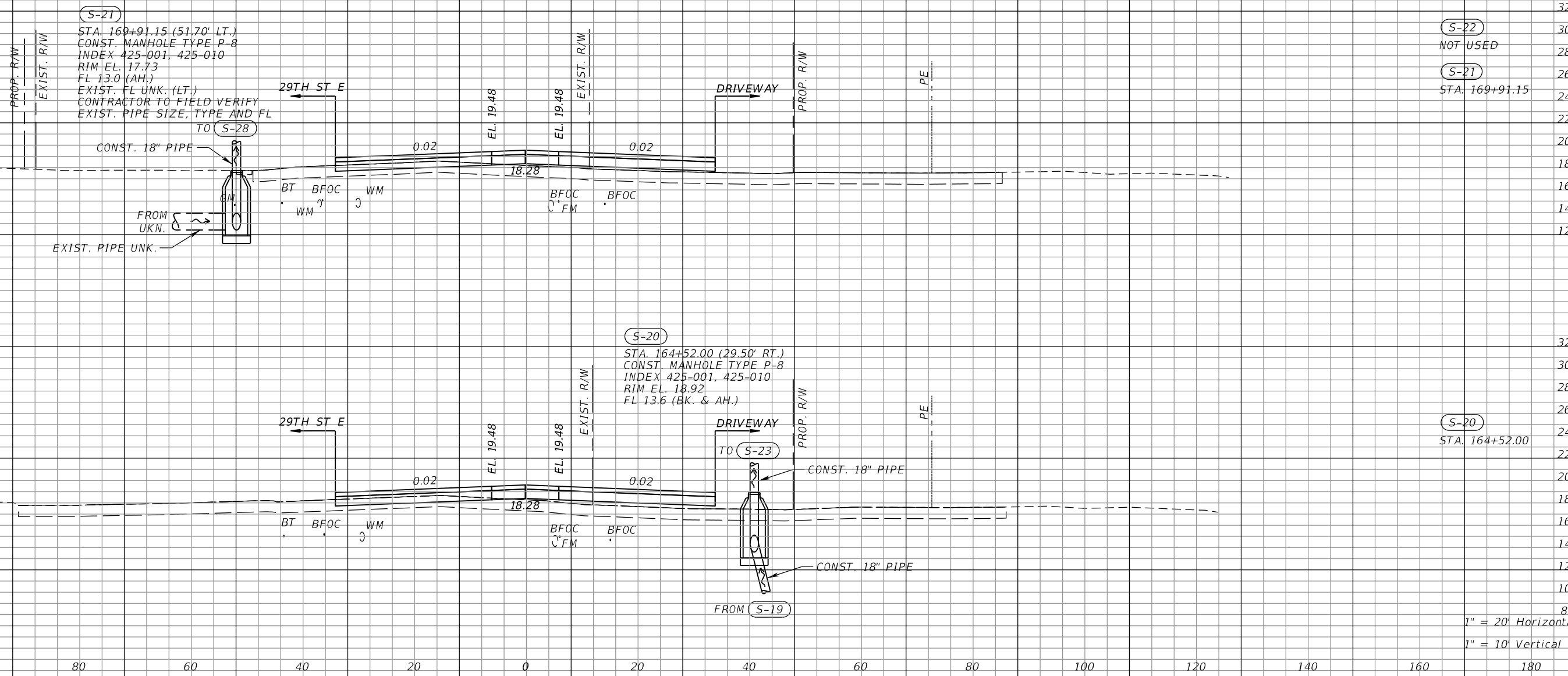
Manatee County
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DRAINAGE STRUCTURES (5)
63RD AVE E

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63RD AVE



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

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			CHECKED BY	TAP	6107860

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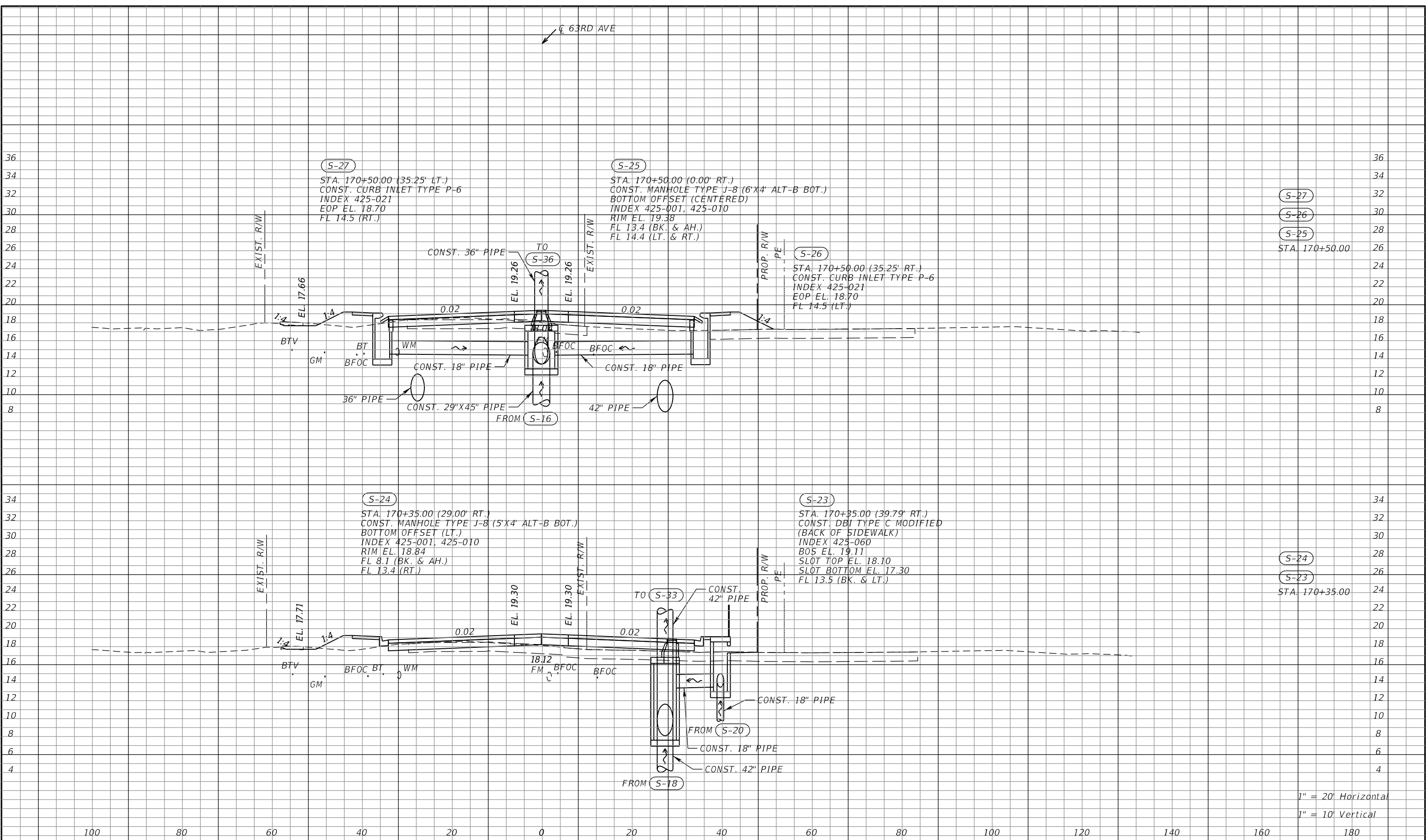
Manatee County
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DRAINAGE STRUCTURES (7)
63RD AVE E

SHEET NO.

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63RD AVE



S-27
S-26
S-25
STA. 170+50.00

S-24
S-23
STA. 170+35.00

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

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				RDU	09/2022
				DKA	PROJECT NO.
				TAP	6107860

RGA
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 SARASOTA, FL 34240

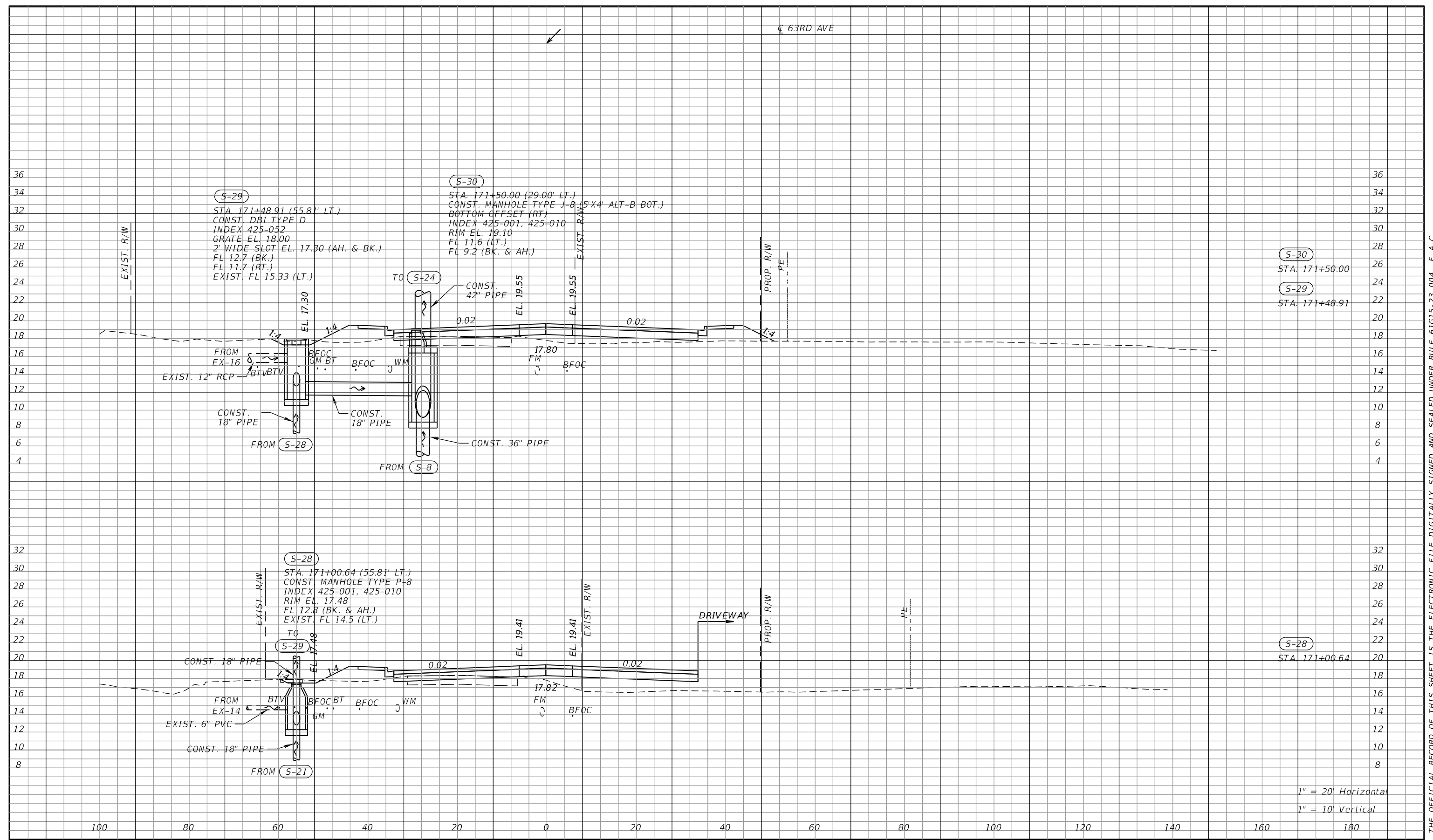
Manatee County
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DRAINAGE STRUCTURES (8)
63RD AVE E

SHEET NO.

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CL 63RD AVE



S-30
STA. 171+50.00
S-29
STA. 171+48.91

S-28
STA. 171+00.64

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

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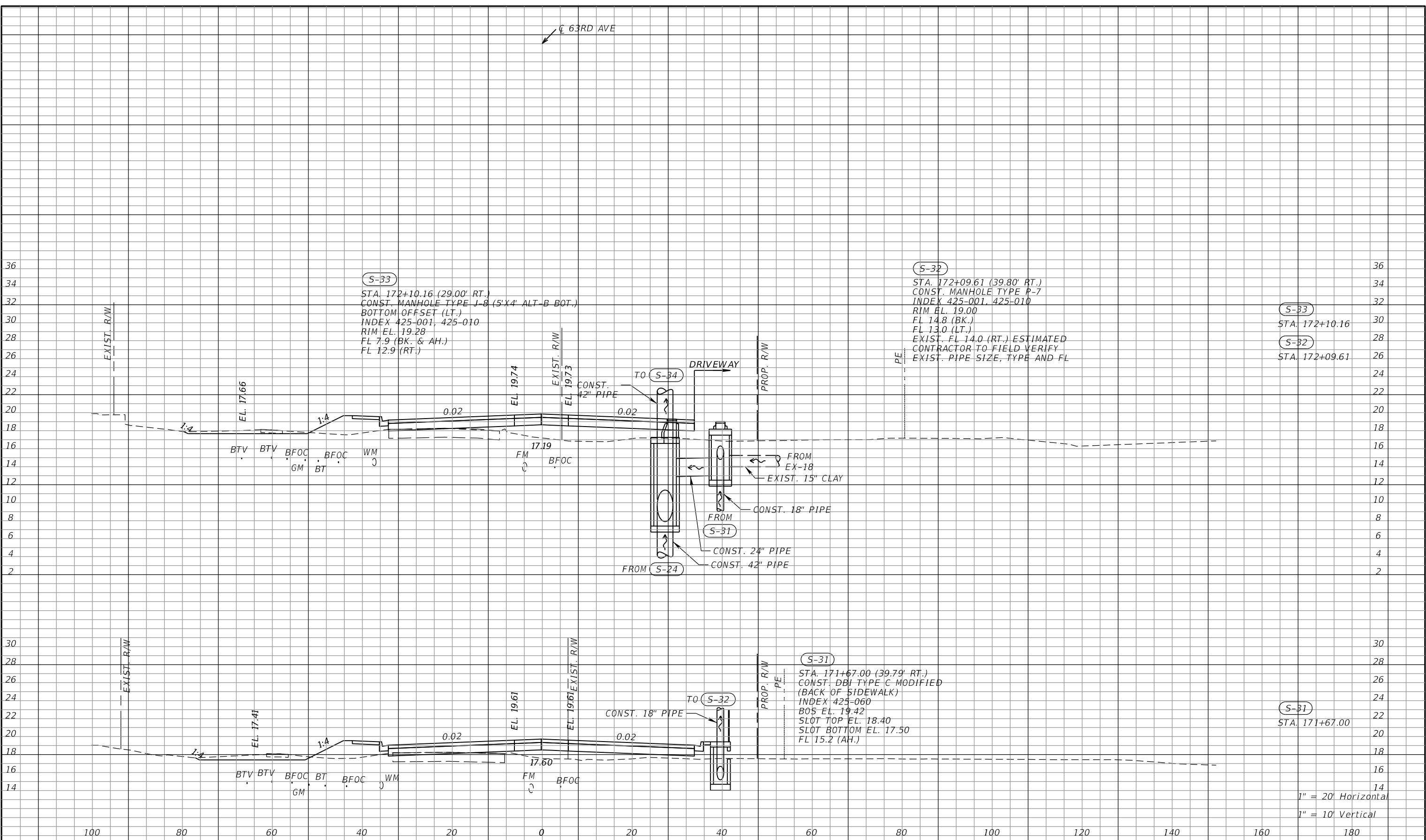
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

DRAINAGE STRUCTURES (9)
63RD AVE E

SHEET NO.

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63RD AVE



(S-33)
 STA. 172+10.16 (29.00' RT.)
 CONST. MANHOLE TYPE J-8 (5'X4' ALT-B BOT.)
 BOTTOM OFFSET (LT.)
 INDEX 425-001, 425-010
 RIM EL. 19.28
 FL 7.9 (BK. & AH.)
 FL 12.9 (RT.)

(S-32)
 STA. 172+09.61 (39.80' RT.)
 CONST. MANHOLE TYPE P-7
 INDEX 425-001, 425-010
 RIM EL. 19.00
 FL 14.8 (BK.)
 FL 13.0 (LT.)
 EXIST. FL 14.0 (RT.) ESTIMATED
 CONTRACTOR TO FIELD VERIFY
 EXIST. PIPE SIZE, TYPE AND FL

(S-33)
 STA. 172+10.16

(S-32)
 STA. 172+09.61

(S-31)
 STA. 171+67.00 (39.79' RT.)
 CONST. DBI TYPE C MODIFIED
 (BACK OF SIDEWALK)
 INDEX 425-060
 B05 EL. 19.42
 SLOT TOP EL. 18.40
 SLOT BOTTOM EL. 17.50
 FL 15.2 (AH.)

(S-31)
 STA. 171+67.00

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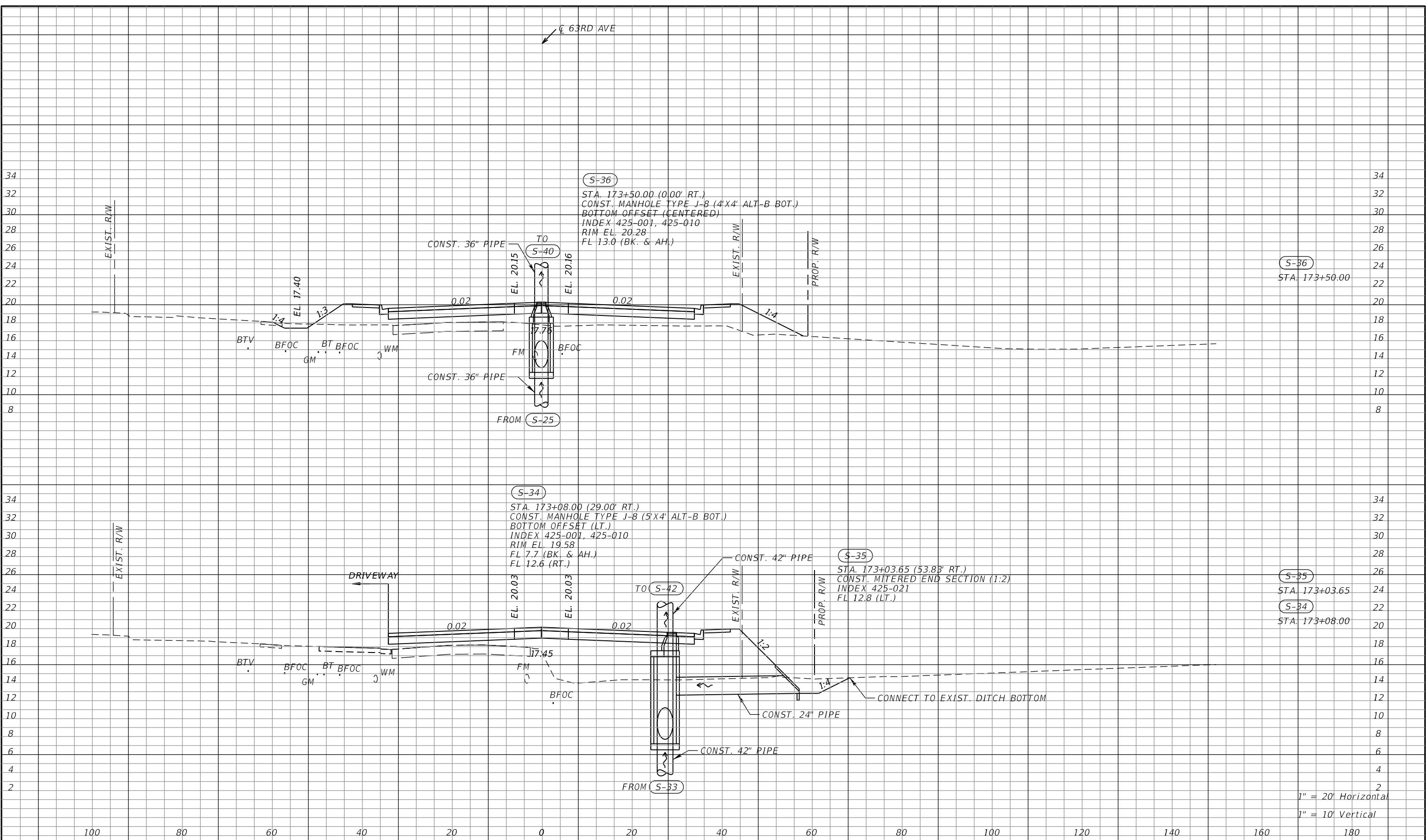
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DRAINAGE STRUCTURES (10)
63RD AVE E

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63RD AVE



S-36
STA. 173+50.00

S-34
STA. 173+08.00 (29.00' RT.)
CONST. MANHOLE TYPE J-8 (5'X4' ALT-B BOT.)
BOTTOM OFFSET (LT.)
INDEX 425-001, 425-010
RIM EL. 19.58
FL 7.7 (BK. & AH.)
FL 12.6 (RT.)

S-35
STA. 173+03.65 (53.88' RT.)
CONST. MITERED END SECTION (1:2)
INDEX 425-021
FL 12.8 (LT.)

S-35
STA. 173+03.65
S-34
STA. 173+08.00

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

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	09/2022
			DRAWN BY	DKA	PROJECT NO.
			CHECKED BY	TAP	6107860

RCA
RICHARD D. UPTGRAFF, P.E.
LICENSE NUMBER 58789
PATEL, GREENE & ASSOCIATES, LLC
7020 PROFESSIONAL PARKWAY E
SUITE 104
SARASOTA, FL 34240

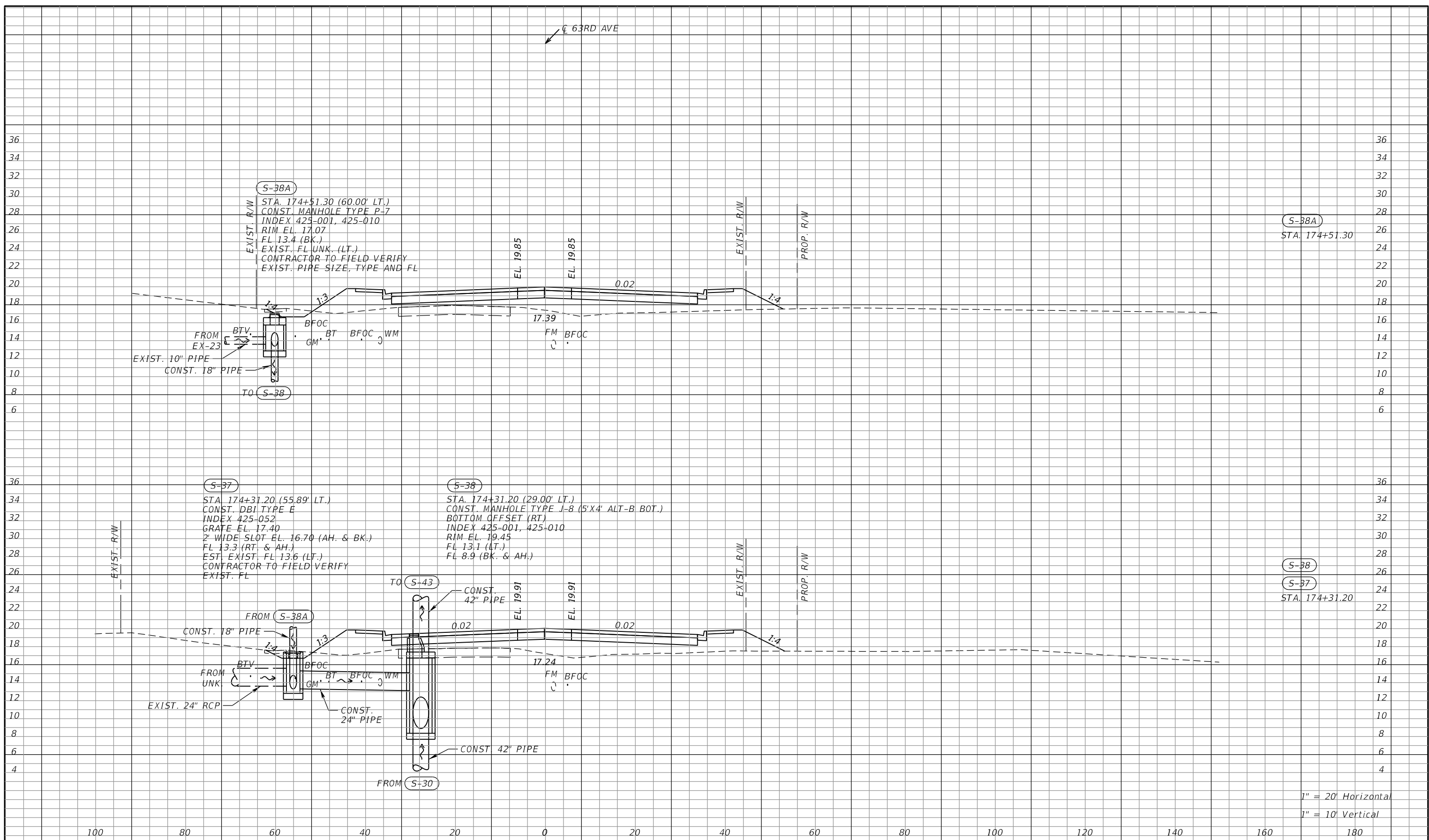
Manatee County
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

DRAINAGE STRUCTURES (11)
63RD AVE E

SHEET NO.

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

63RD AVE



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

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			DRAWN BY	DKA	PROJECT NO.
			CHECKED BY	TAP	6107860

RCA
RICHARD D. UPTGRAFF, P.E.
LICENSE NUMBER 58789
PATEL, GREENE & ASSOCIATES, LLC
7020 PROFESSIONAL PARKWAY E
SUITE 104
SARASOTA, FL 34240

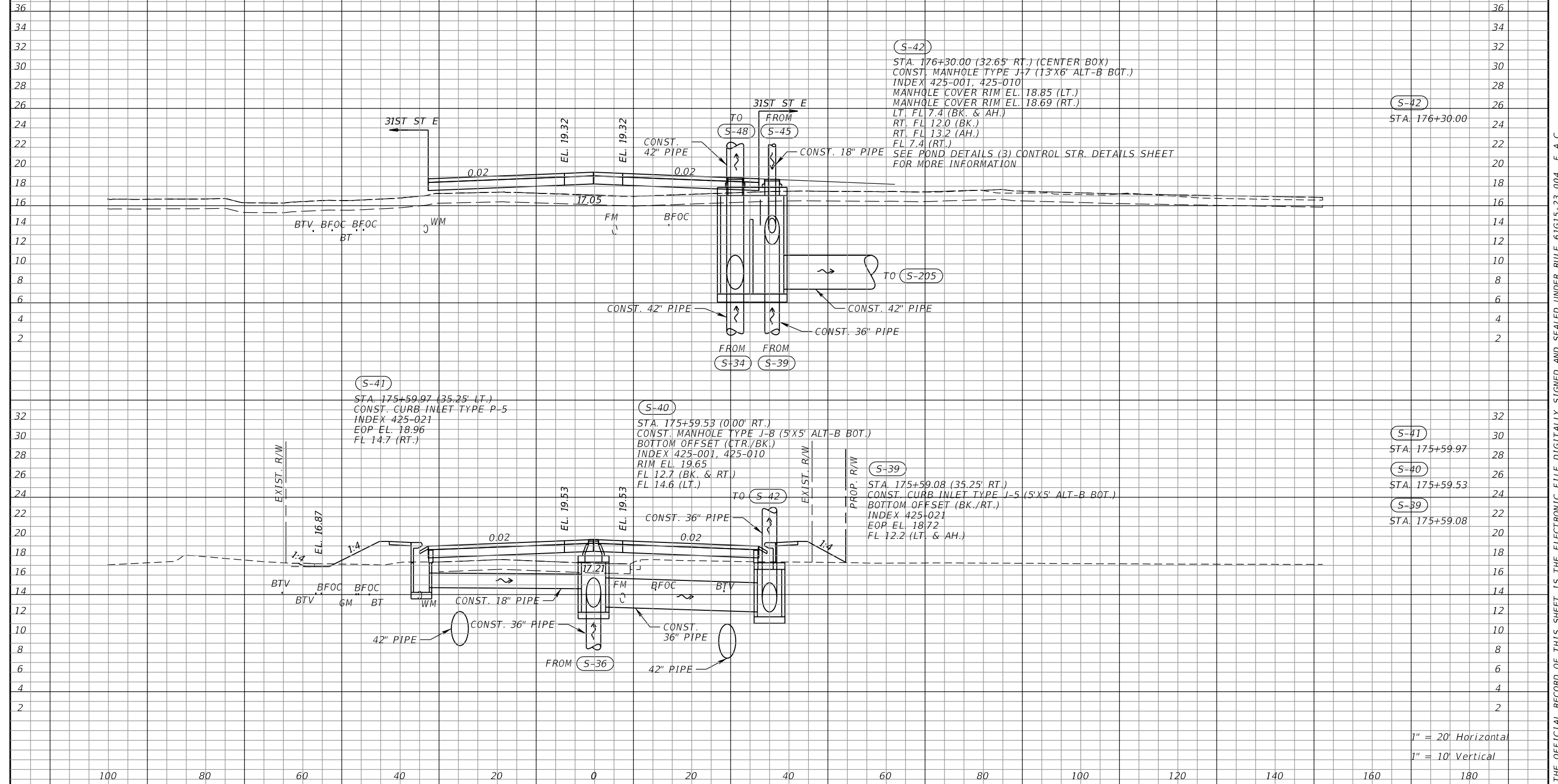
Manatee County
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

DRAINAGE STRUCTURES (12)
63RD AVE E

SHEET NO.

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63RD AVE



(S-42)
 STA. 176+30.00 (32.65' RT.) (CENTER BOX)
 CONST. MANHOLE TYPE J-7 (13'X6' ALT-B BOT.)
 INDEX 425-001, 425-010
 MANHOLE COVER RIM EL. 18.85 (LT.)
 MANHOLE COVER RIM EL. 18.69 (RT.)
 LT. FL 7.4 (BK. & AH.)
 RT. FL 12.0 (BK.)
 RT. FL 13.2 (AH.)
 FL 7.4 (RT.)
 SEE POND DETAILS (3) CONTROL STR. DETAILS SHEET
 FOR MORE INFORMATION

(S-41)
 STA. 175+59.97 (35.25' LT.)
 CONST. CURB INLET TYPE P-5
 INDEX 425-021
 EOP EL. 18.96
 FL 14.7 (RT.)

(S-40)
 STA. 175+59.53 (0'00' RT.)
 CONST. MANHOLE TYPE J-8 (5'X5' ALT-B BOT.)
 BOTTOM OFFSET (CTR./BK.)
 INDEX 425-001, 425-010
 RIM EL. 19.65
 FL 12.7 (BK. & RT.)
 FL 14.6 (LT.)

(S-39)
 STA. 175+59.08 (35.25' RT.)
 CONST. CURB INLET TYPE J-5 (5'X5' ALT-B BOT.)
 BOTTOM OFFSET (BK./RT.)
 INDEX 425-021
 EOP EL. 18.72
 FL 12.2 (LT. & AH.)

(S-41)
 STA. 175+59.97
 (S-40)
 STA. 175+59.53
 (S-39)
 STA. 175+59.08

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

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	09/2022
			DRAWN BY	DKA	PROJECT NO.
			CHECKED BY	TAP	6107860

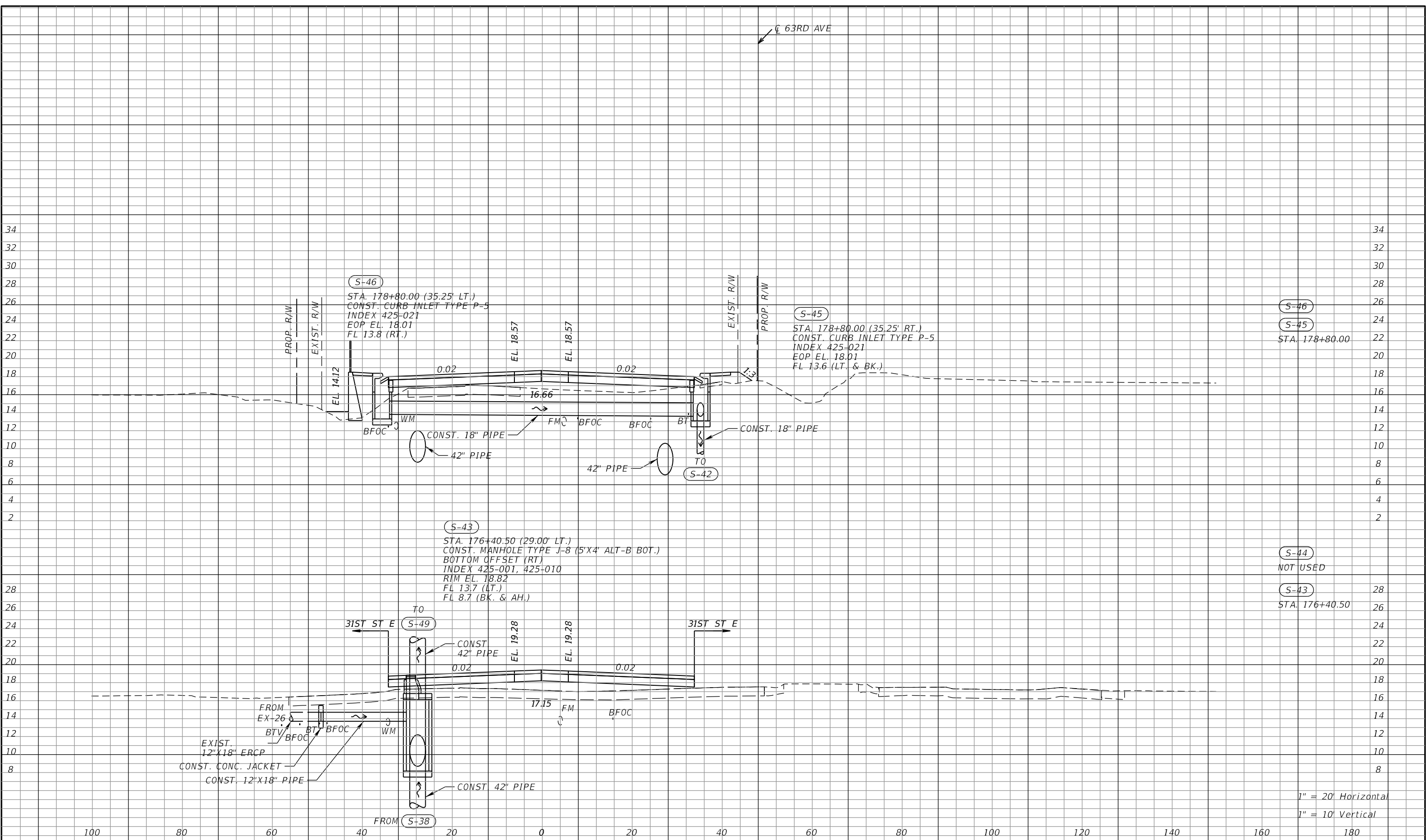
RCA
 RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

Manatee County
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

DRAINAGE STRUCTURES (13)
63RD AVE E

SHEET NO.

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S-46
 STA. 178+80.00
 S-45
 STA. 178+80.00

S-44
 NOT USED
 S-43
 STA. 176+40.50

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

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			CHECKED BY	TAP	6107860



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 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240



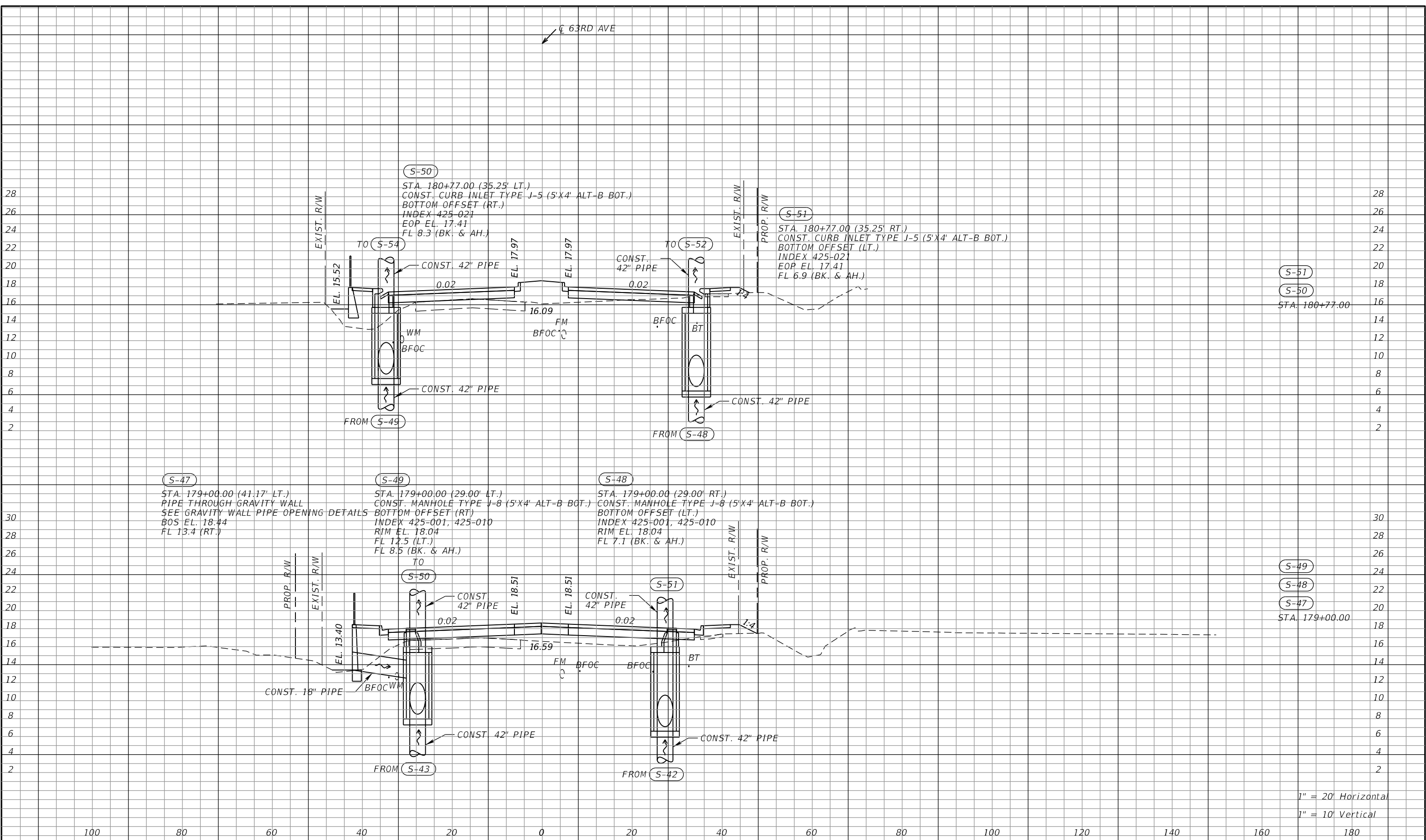
PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

DRAINAGE STRUCTURES (14)
63RD AVE E

SHEET NO.

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63RD AVE



S-51
S-50
STA. 180+77.00

S-49
S-48
S-47
STA. 179+00.00

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

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	09/2022
			DRAWN BY	DKA	PROJECT NO.
			CHECKED BY	TAP	6107860

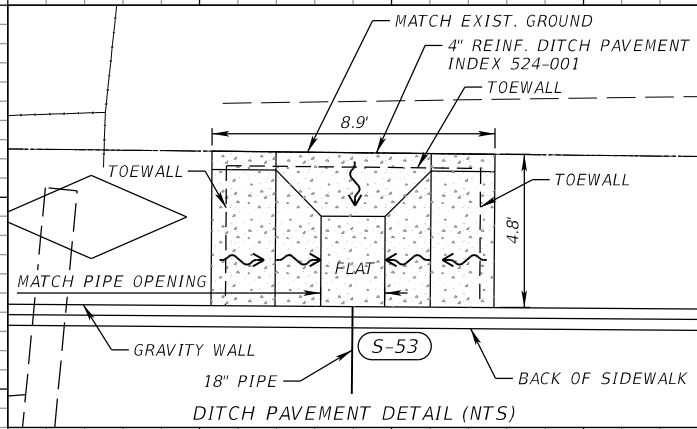
RGA
 RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

Manatee County
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

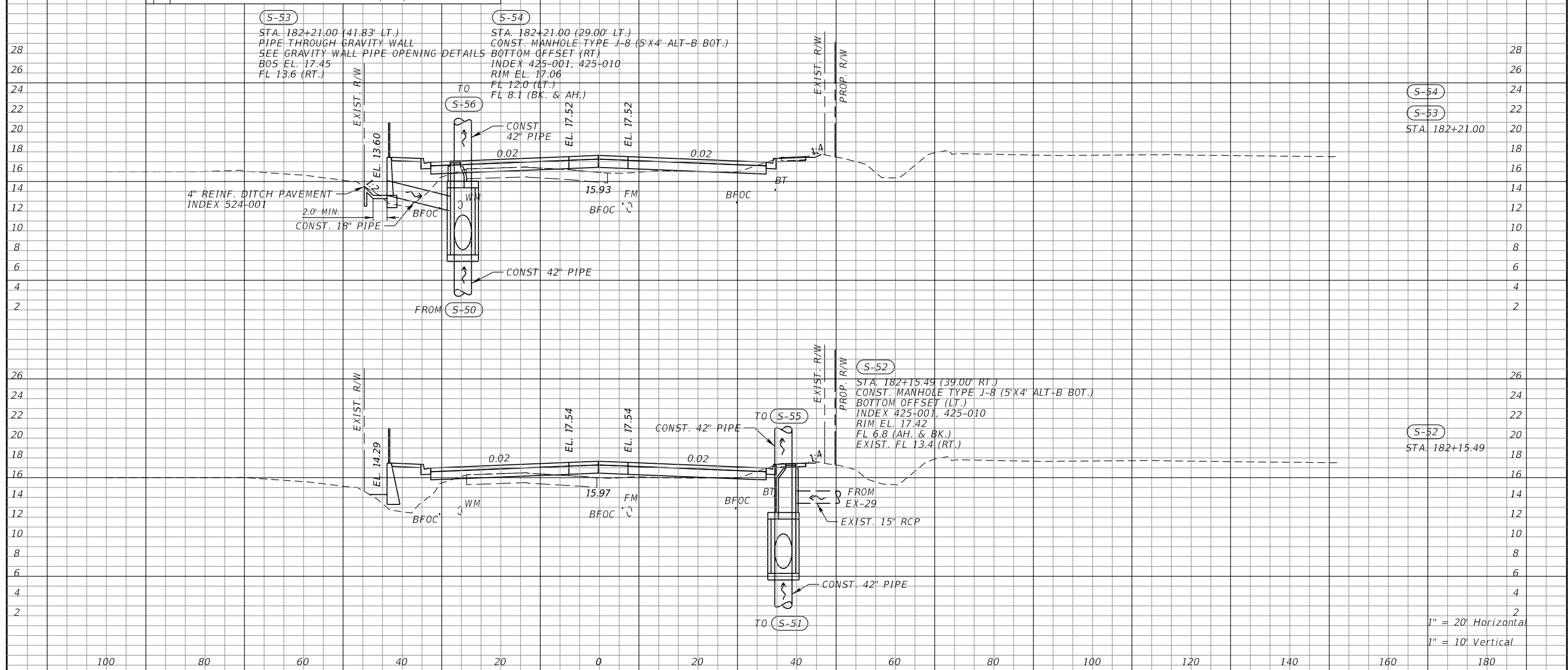
DRAINAGE STRUCTURES (15)
63RD AVE E

SHEET NO.

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63RD AVE



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			CHECKED BY	TAP	6107860

RCA

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LICENSE NUMBER 58789
PATEL, GREENE & ASSOCIATES, LLC
7020 PROFESSIONAL PARKWAY E
SUITE 104
SARASOTA, FL 34240

Manatee County
FLORIDA

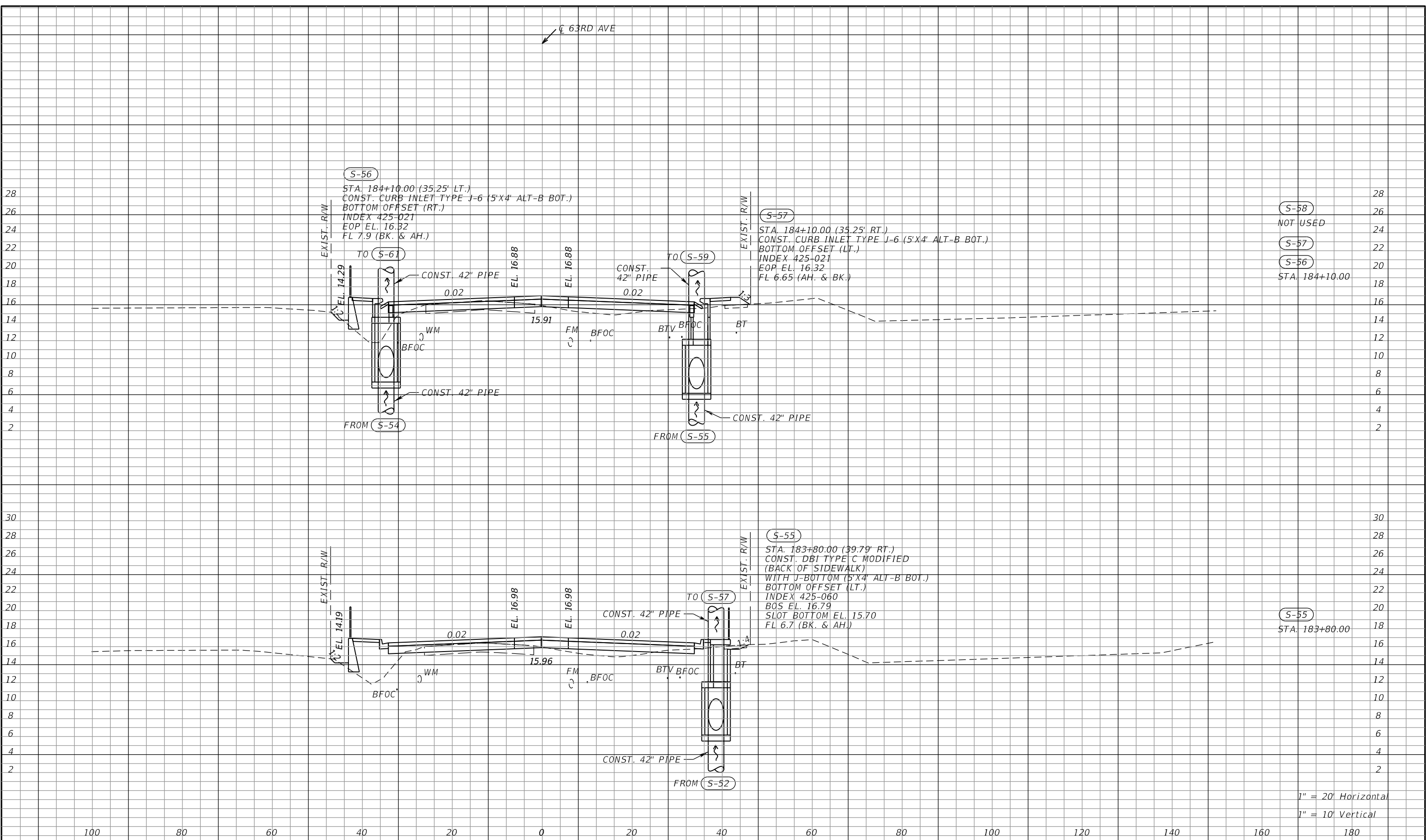
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

DRAINAGE STRUCTURES (16)
63RD AVE E

SHEET NO.

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63RD AVE



28
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2

100 80 60 40 20 0 20 40 60 80 100 120 140 160 180

S-58
NOT USED
S-57
S-56
STA. 184+10.00

S-55
STA. 183+80.00

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

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	09/2022
			DRAWN BY	DKA	PROJECT NO.
			CHECKED BY	TAP	6107860

RGA
 RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

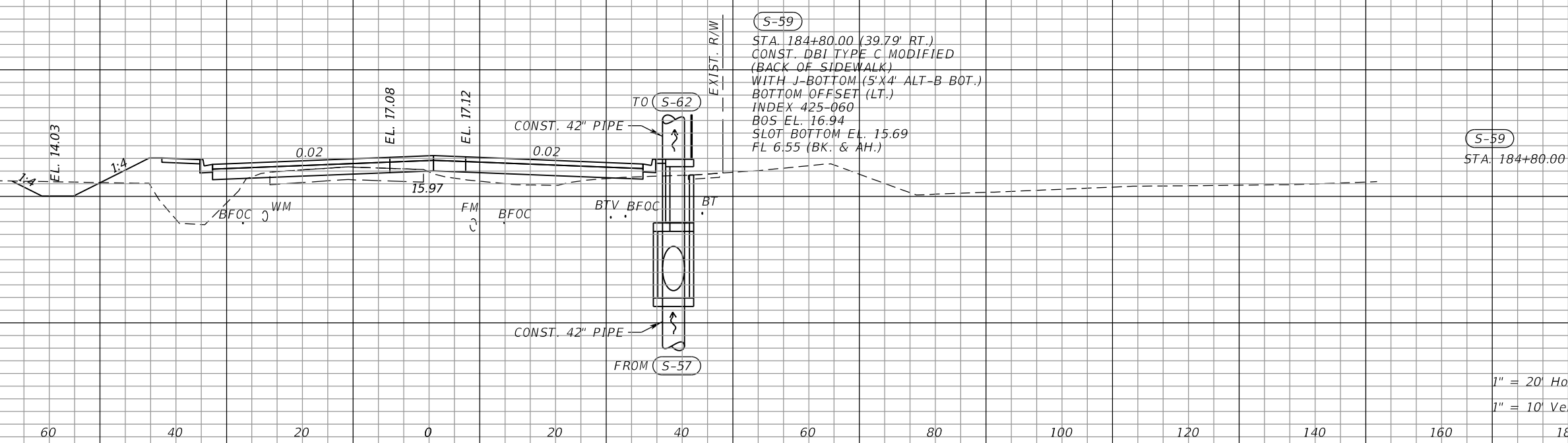
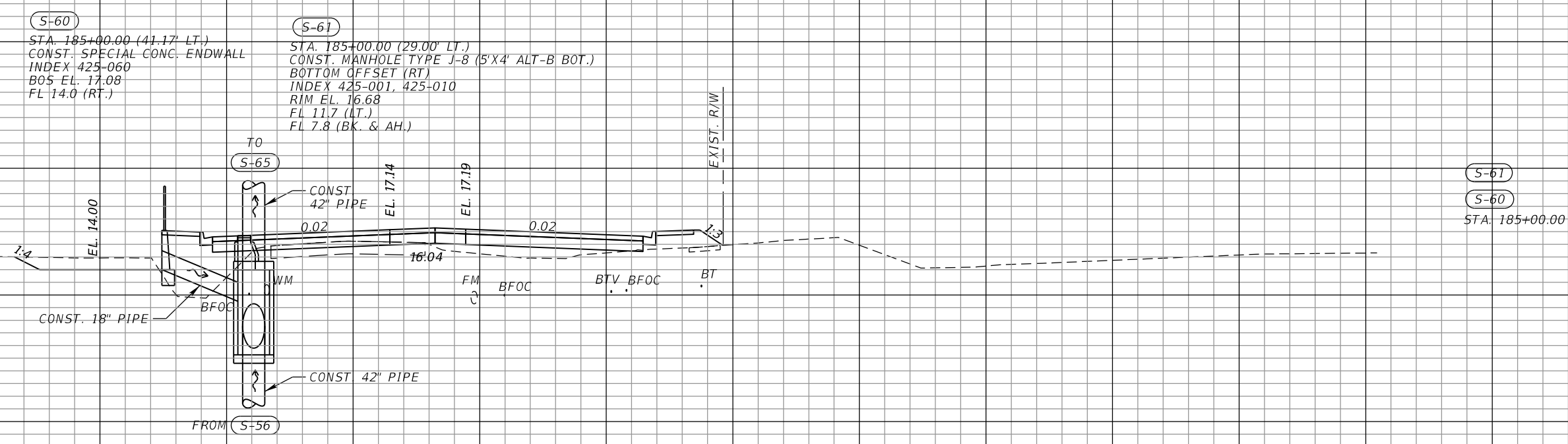
Manatee County
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DRAINAGE STRUCTURES (17)
63RD AVE E

SHEET NO.

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63RD AVE



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

28
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18
16
14
12
10
8
6
4
2

100 80 60 40 20 0 20 40 60 80 100 120 140 160 180

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			CHECKED BY	TAP	6107860

RCA
RICHARD D. UPTGRAFF, P.E.
LICENSE NUMBER 58789
PATEL, GREENE & ASSOCIATES, LLC
7020 PROFESSIONAL PARKWAY E
SUITE 104
SARASOTA, FL 34240

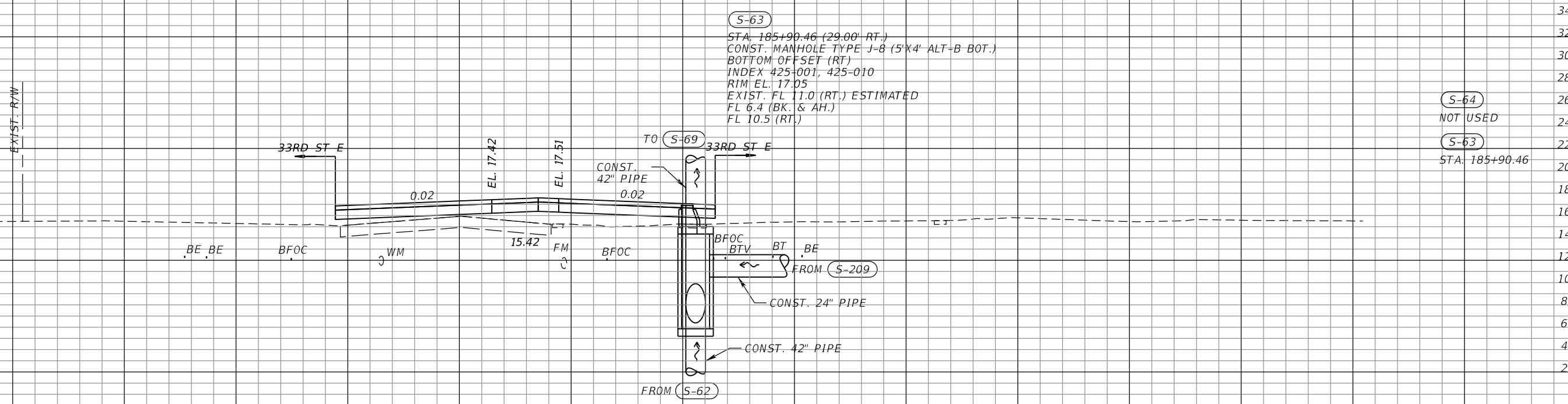
Manatee County
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

DRAINAGE STRUCTURES (18)
63RD AVE E

SHEET NO.

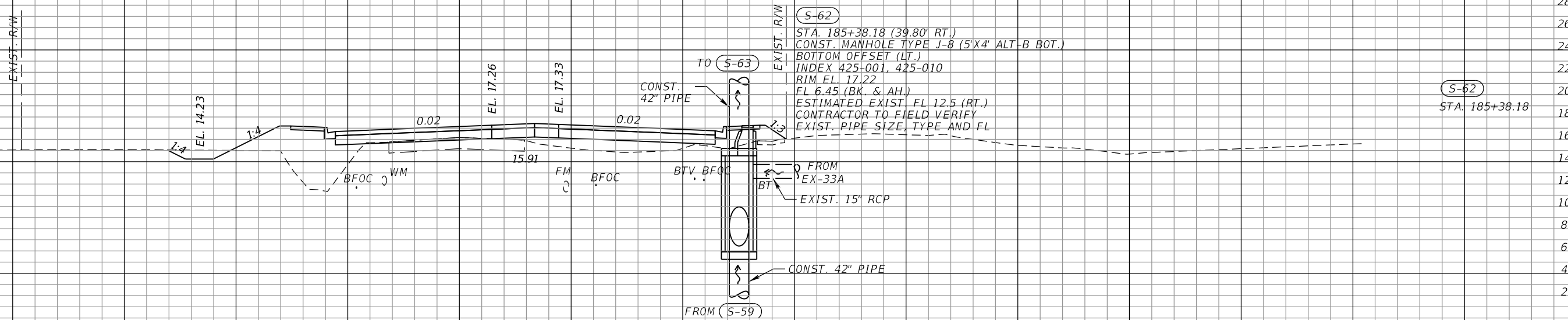
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

63RD AVE



S-63
 STA. 185+90.46 (29.00' RT.)
 CONST. MANHOLE TYPE J-8 (5'X4' ALT-B BOT.)
 BOTTOM OFFSET (RT)
 INDEX 425-001, 425-010
 RIM EL. 17.05
 EXIST. FL 11.0 (RT.) ESTIMATED
 FL 6.4 (BK. & AH.)
 FL 10.5 (RT.)

S-64
 NOT USED
S-63
 STA. 185+90.46



S-62
 STA. 185+38.18 (39.80' RT.)
 CONST. MANHOLE TYPE J-8 (5'X4' ALT-B BOT.)
 BOTTOM OFFSET (LT.)
 INDEX 425-001, 425-010
 RIM EL. 17.22
 FL 6.45 (BK. & AH.)
 ESTIMATED EXIST. FL 12.5 (RT.)
 CONTRACTOR TO FIELD VERIFY
 EXIST. PIPE SIZE, TYPE AND FL

S-62
 STA. 185+38.18

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

100 80 60 40 20 0 20 40 60 80 100 120 140 160 180

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	09/2022
			DRAWN BY	DKA	PROJECT NO.
			CHECKED BY	TAP	6107860

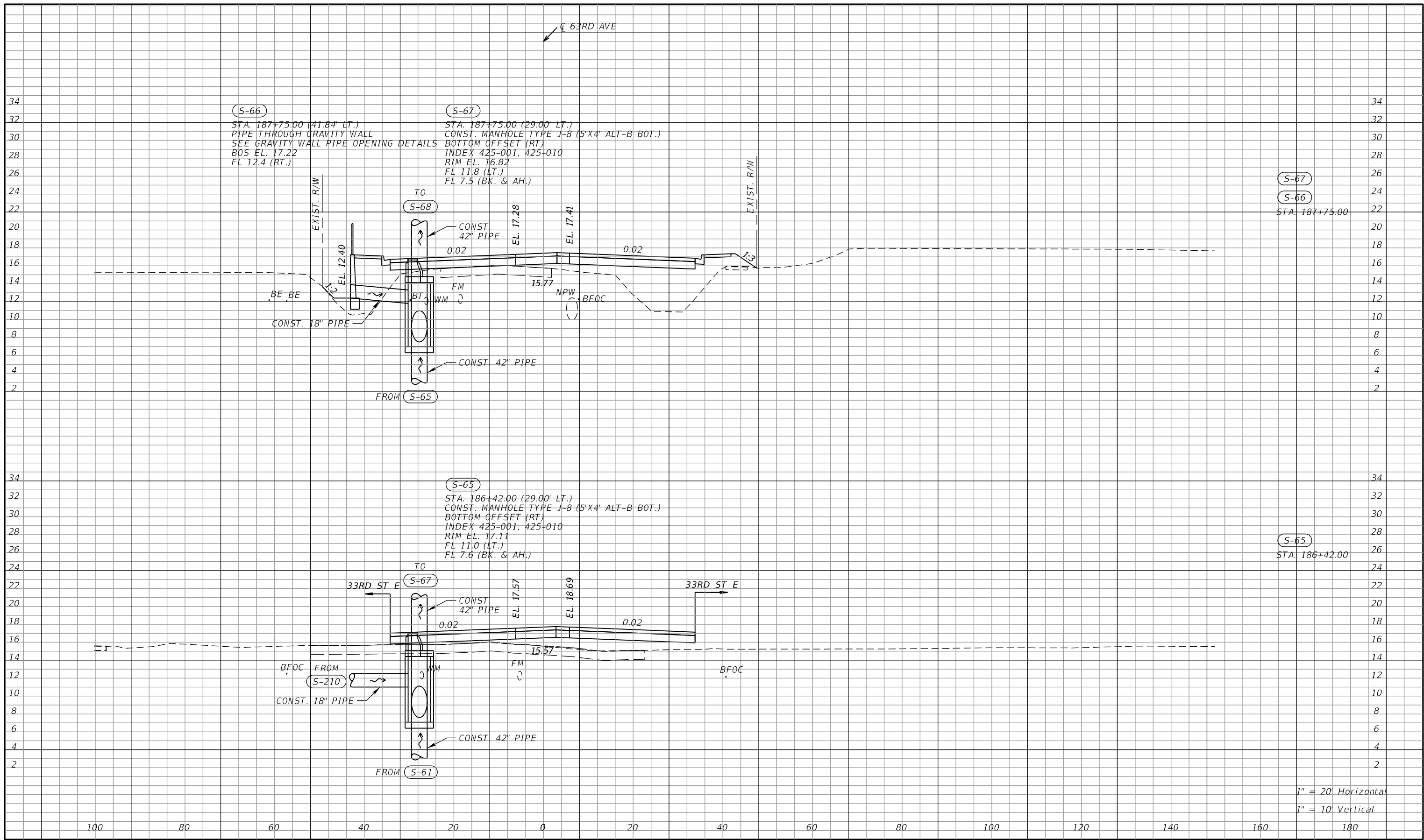
RGA
 RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

Manatee County
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 Bradenton, FL 34208

DRAINAGE STRUCTURES (19)
63RD AVE E

SHEET NO.

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

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			CHECKED BY	TAP	6107860

RCA
 RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

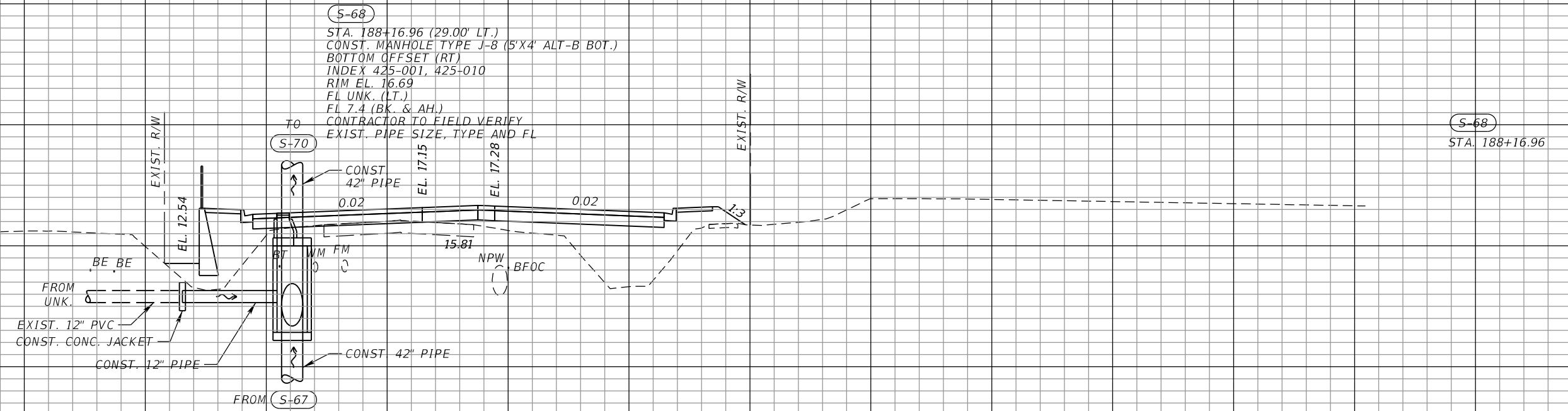
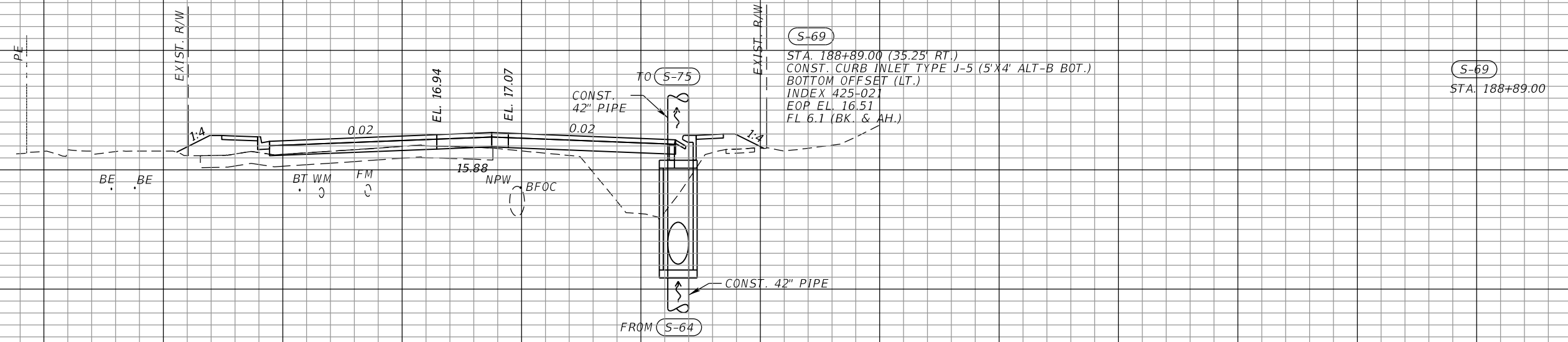
Manatee County
 PUBLIC WORKS DEPARTMENT
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DRAINAGE STRUCTURES (20)
63RD AVE E

SHEET NO.

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63RD AVE



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

100 80 60 40 20 0 20 40 60 80 100 120 140 160 180

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			DRAWN BY	DKA	PROJECT NO.
			CHECKED BY	TAP	6107860

PGA RICHARD D. UPTGRAFF, P.E.
LICENSE NUMBER 58789
PATEL, GREENE & ASSOCIATES, LLC
7020 PROFESSIONAL PARKWAY E
SUITE 104
SARASOTA, FL 34240

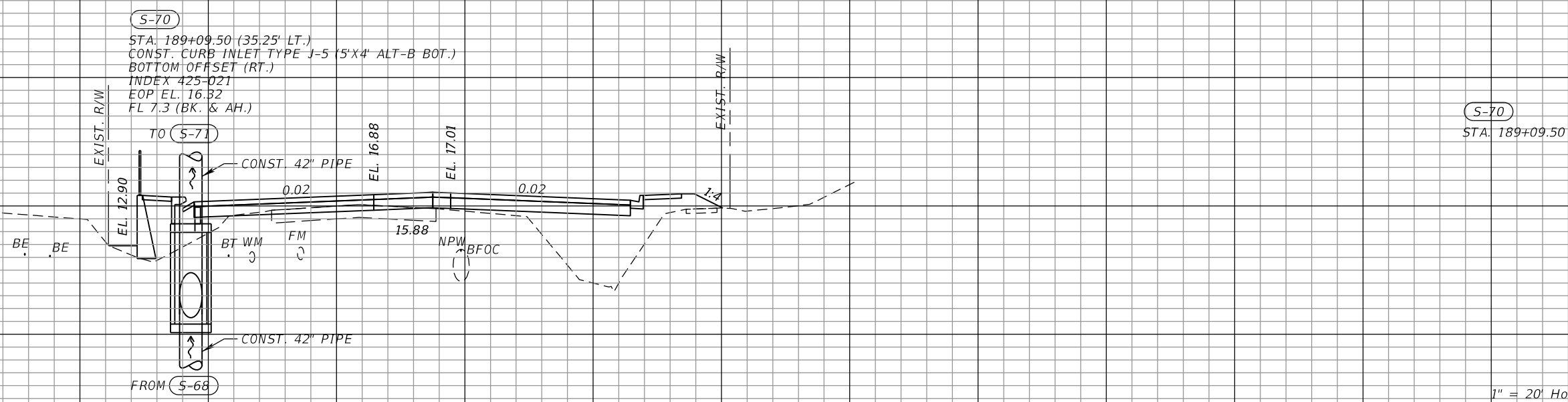
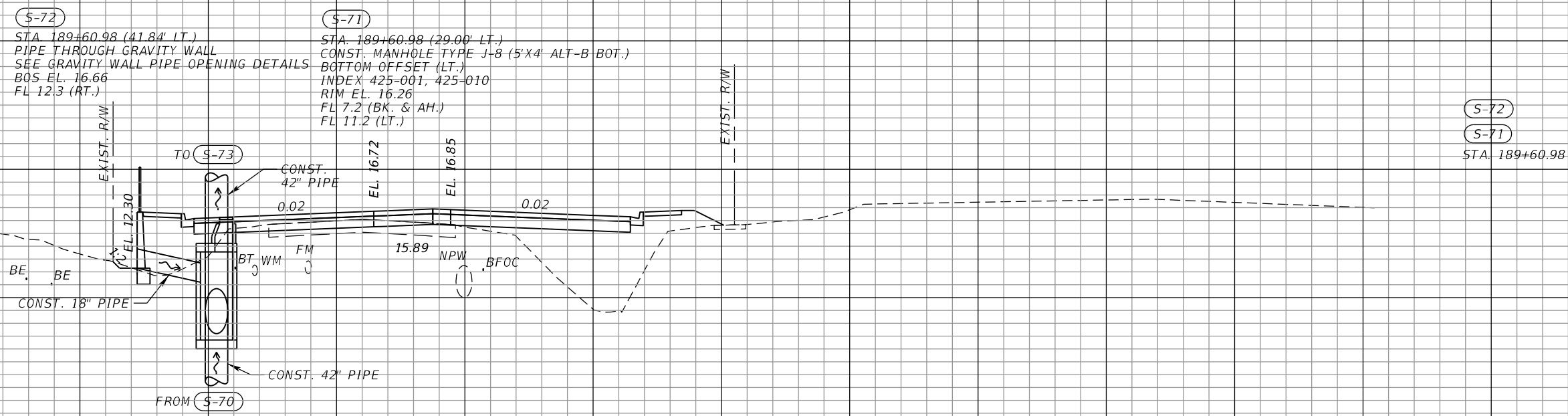
Manatee County PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

DRAINAGE STRUCTURES (21)
63RD AVE E

SHEET NO.

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63RD AVE



S-72
S-71
STA. 189+60.98

S-70
STA. 189+09.50

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

100 80 60 40 20 0 20 40 60 80 100 120 140 160 180

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				RDU	09/2022
				DKA	PROJECT NO.
				TAP	6107860

RCA
 RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

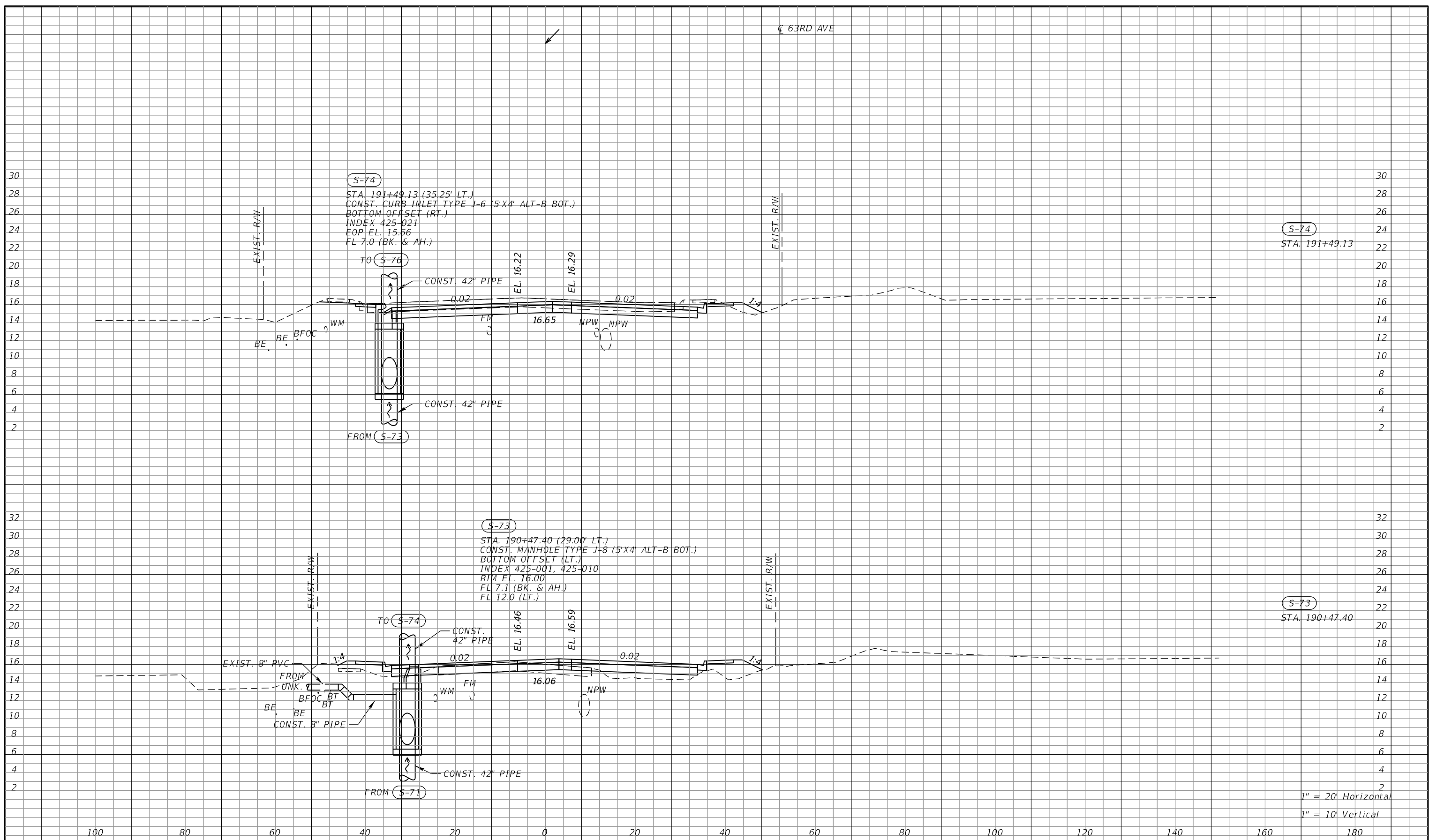
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DRAINAGE STRUCTURES (22)
63RD AVE E

SHEET NO.

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CL 63RD AVE



S-74
STA. 191+49.13

S-73
STA. 190+47.40

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

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 SARASOTA, FL 34240



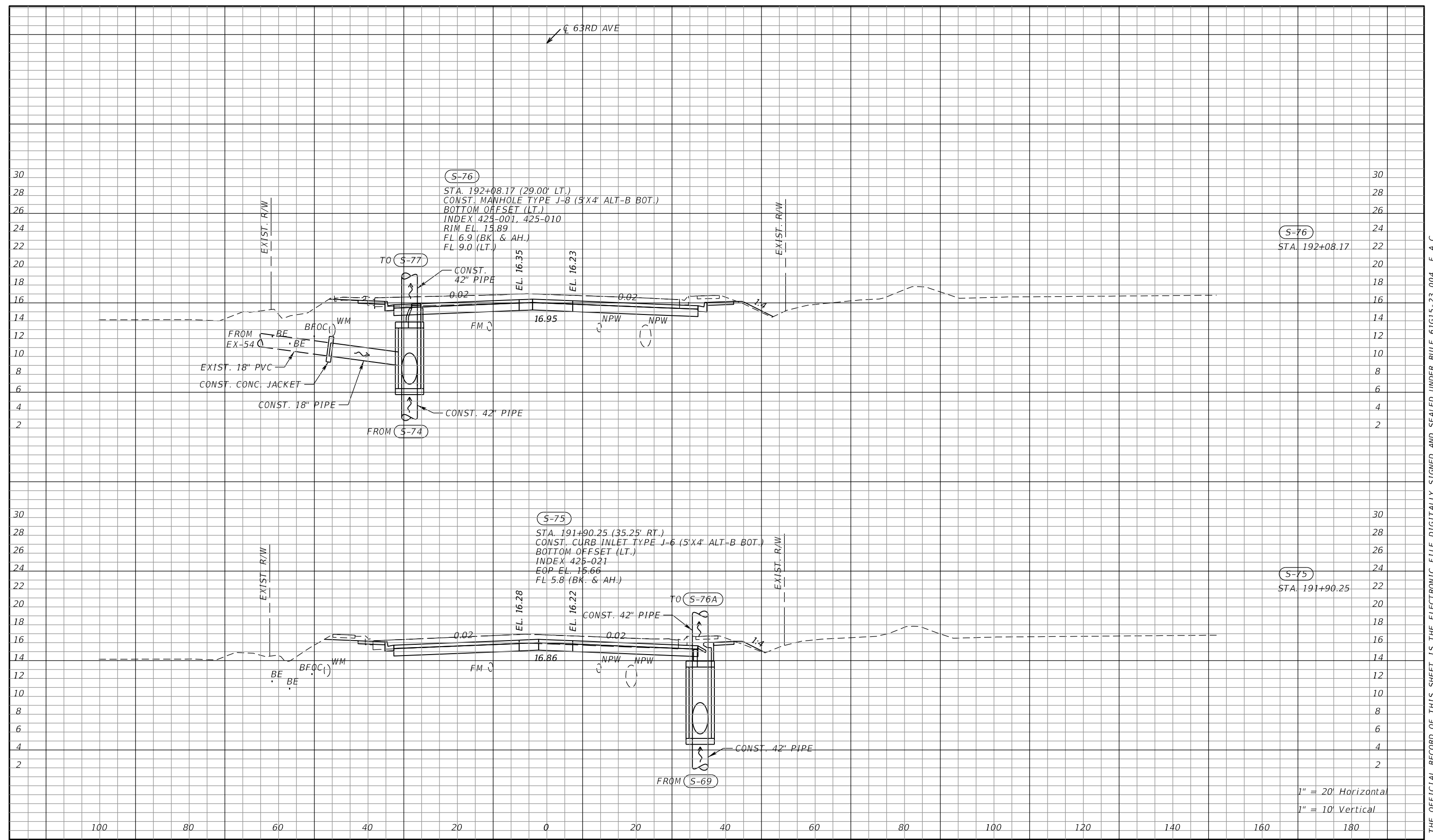
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DRAINAGE STRUCTURES (23)
63RD AVE E

SHEET NO.

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63RD AVE



S-76
STA. 192+08.17

S-75
STA. 191+90.25

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

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			CHECKED BY	TAP	6107860

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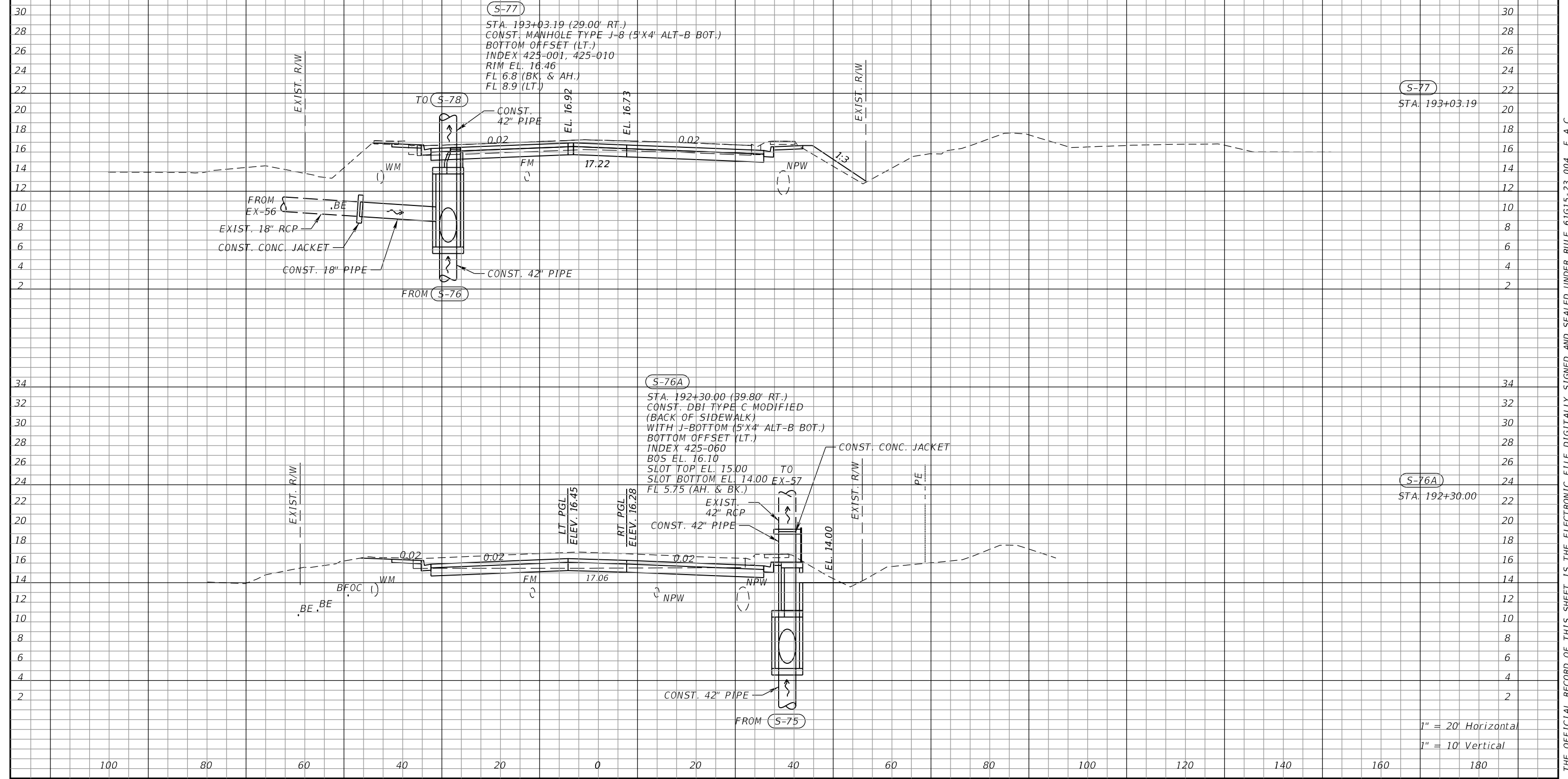
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DRAINAGE STRUCTURES (24)
63RD AVE E

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63RD AVE



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

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			CHECKED BY	TAP	6107860

RC&A
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 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

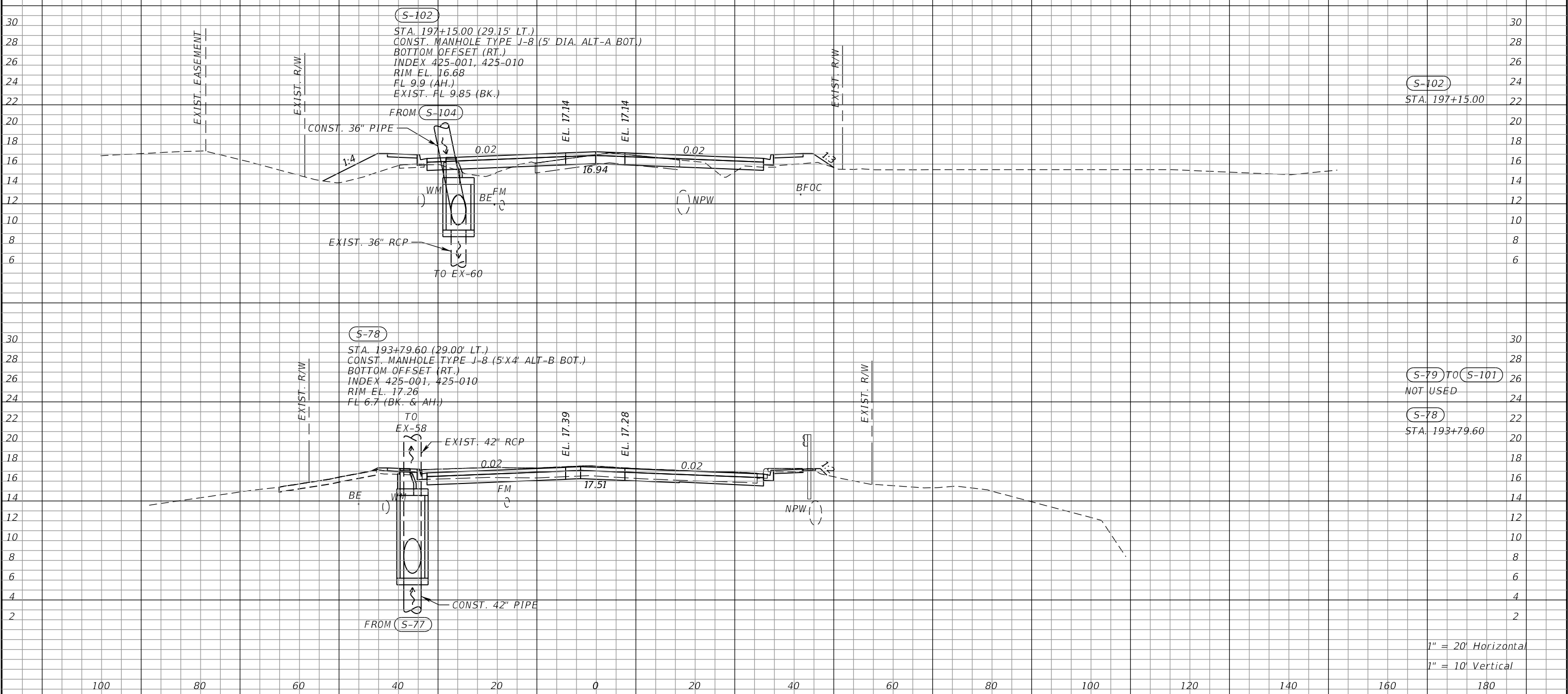
Manatee County
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DRAINAGE STRUCTURES (25)
63RD AVE E

SHEET NO.

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63RD AVE



S-102
 STA. 197+15.00

S-79 TO **S-101**
 NOT USED

S-78
 STA. 193+79.60

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

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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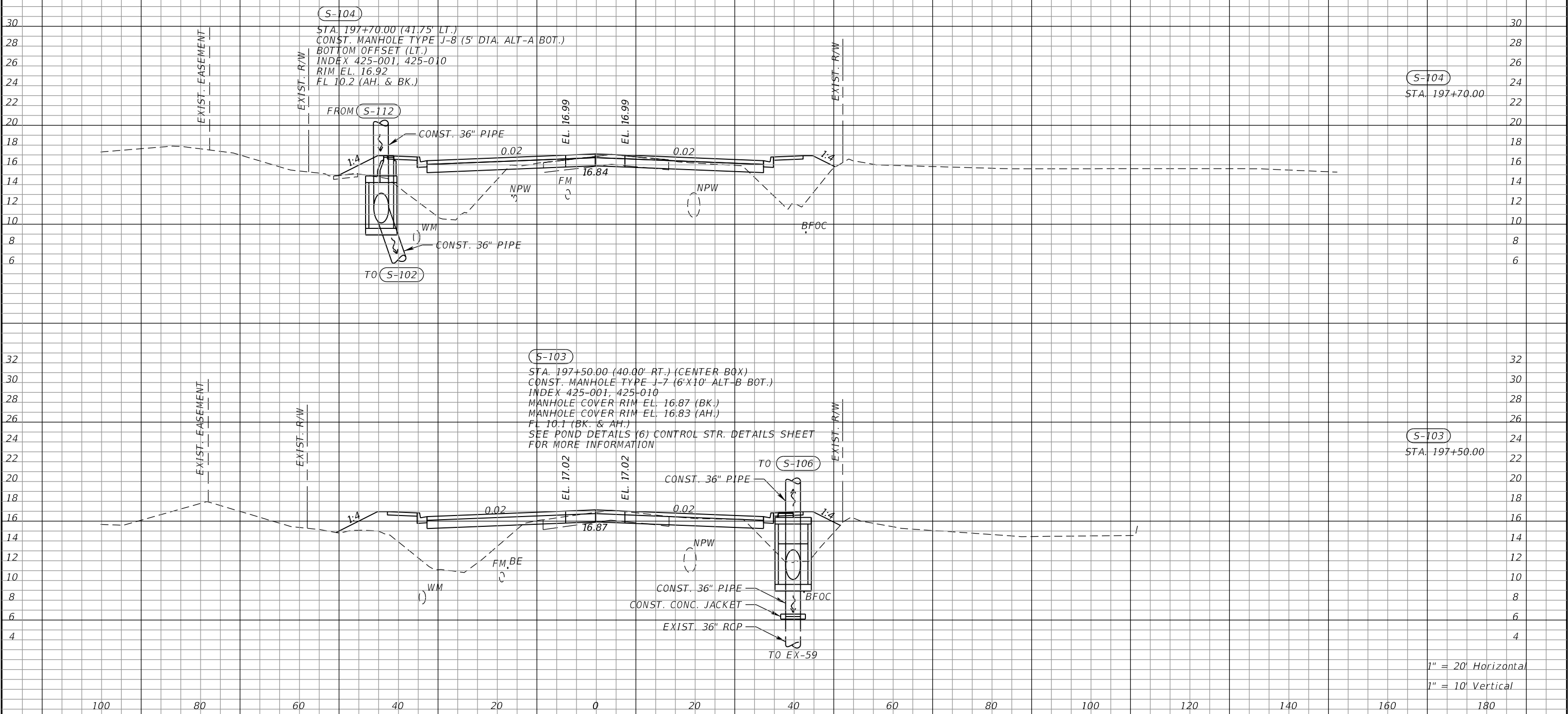
Manatee County
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DRAINAGE STRUCTURES (26)
63RD AVE E

SHEET NO.

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63RD AVE



S-104
STA. 197+70.00

S-103
STA. 197+50.00 (40.00' RT.) (CENTER BOX)
CONST. MANHOLE TYPE J-7 (6'X10' ALT-B BOT.)
INDEX 425-001, 425-010
MANHOLE COVER RIM EL. 16.87 (BK.)
MANHOLE COVER RIM EL. 16.83 (AH.)
FL 10.1 (BK. & AH.)
SEE POND DETAILS (6) CONTROL STR. DETAILS SHEET
FOR MORE INFORMATION

S-103
STA. 197+50.00

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

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			CHECKED BY	TAP	6107860

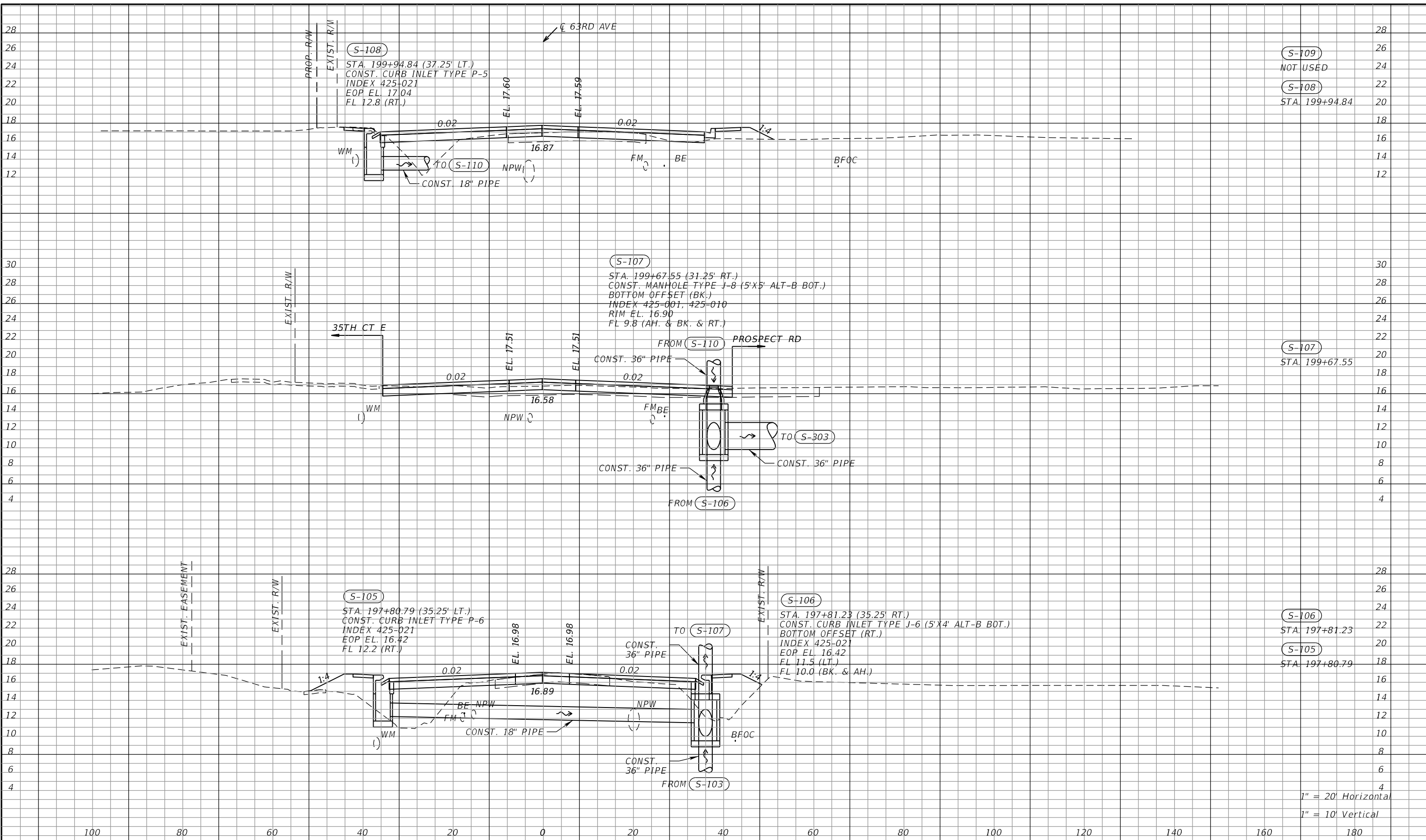
RCA
 RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

Manatee County
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

DRAINAGE STRUCTURES (27)
63RD AVE E

SHEET NO.

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S-109
NOT USED
S-108
STA. 199+94.84

S-107
STA. 199+67.55

S-106
STA. 197+81.23
S-105
STA. 197+80.79

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

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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				DKA	PROJECT NO.
				TAP	6107860

RGA
RICHARD D. UPTGRAFF, P.E.
LICENSE NUMBER 58789
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SARASOTA, FL 34240

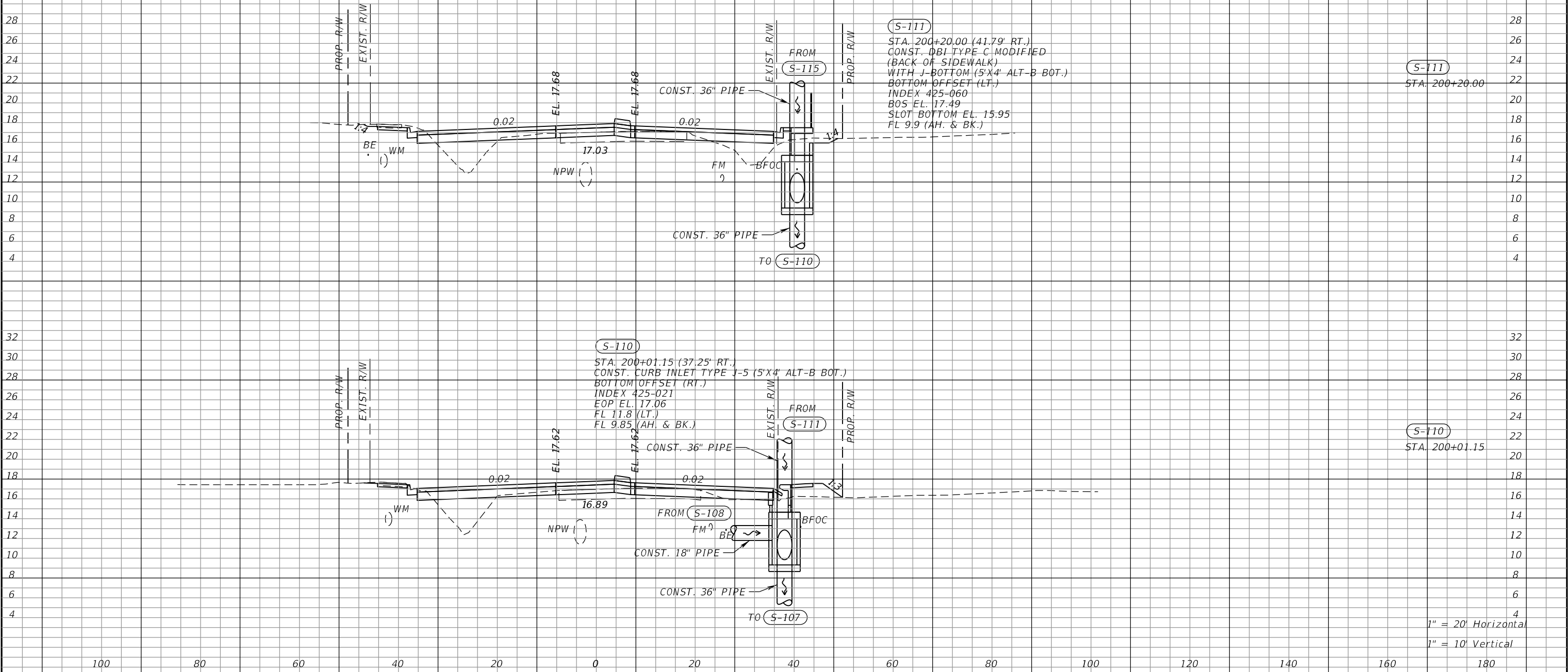
Manatee County
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Bradenton, FL 34208

DRAINAGE STRUCTURES (28)
63RD AVE E

SHEET NO.

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

← 63RD AVE



S-111
STA. 200+20.00

S-110
STA. 200+01.15 (37.25' RT.)
CONST. CURB INLET TYPE J-5 (5'X4' ALT-B BOT.)
BOTTOM OFFSET (RT.)
INDEX 425-021
EOP EL. 17.06
FL 11.8 (LT.)
FL 9.85 (AH. & BK.)

S-110
STA. 200+01.15

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

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	09/2022
			DRAWN BY	DKA	PROJECT NO.
			CHECKED BY	TAP	6107860

RCA
 RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

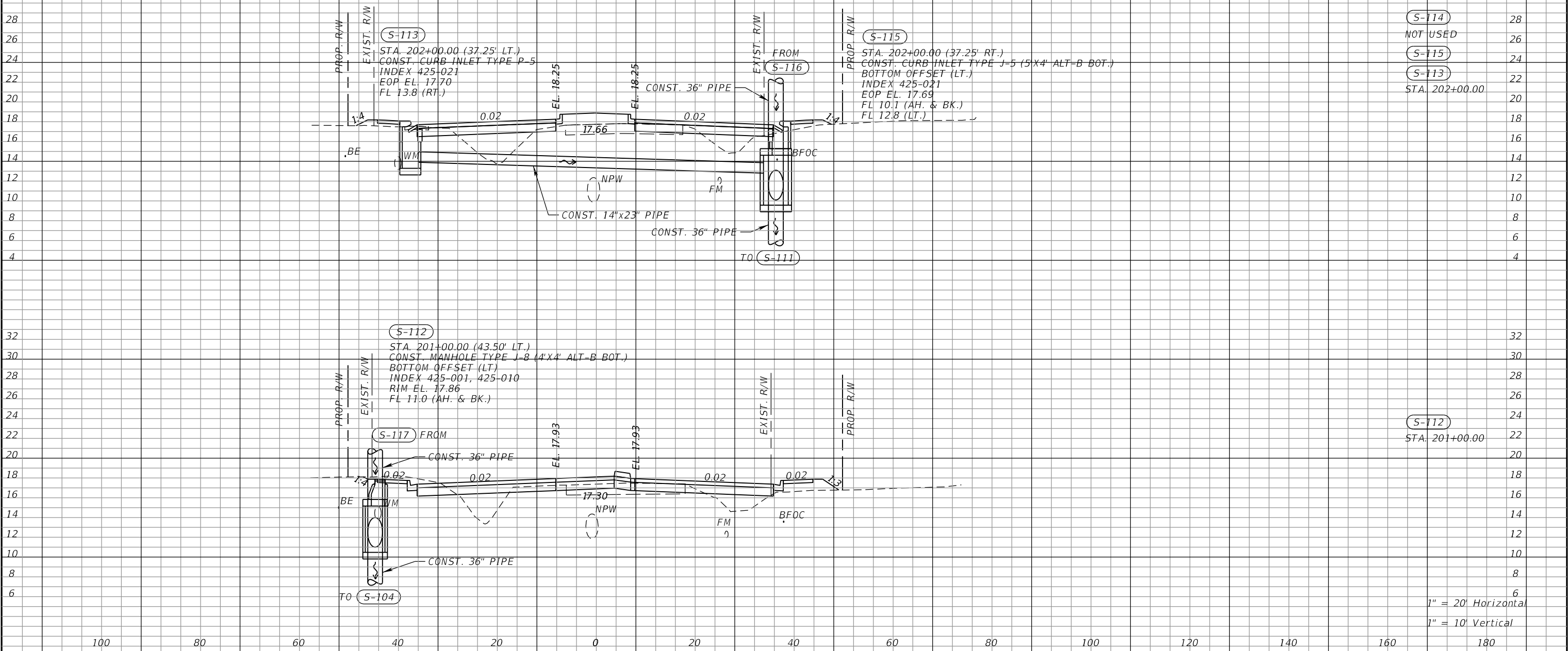
Manatee County
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

DRAINAGE STRUCTURES (29)
63RD AVE E

SHEET NO.

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63RD AVE



S-114	28
NOT USED	26
S-115	24
S-113	22
STA. 202+00.00	20

S-112	24
STA. 201+00.00	22

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

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	09/2022
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			CHECKED BY	TAP	6107860

RGA
 RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

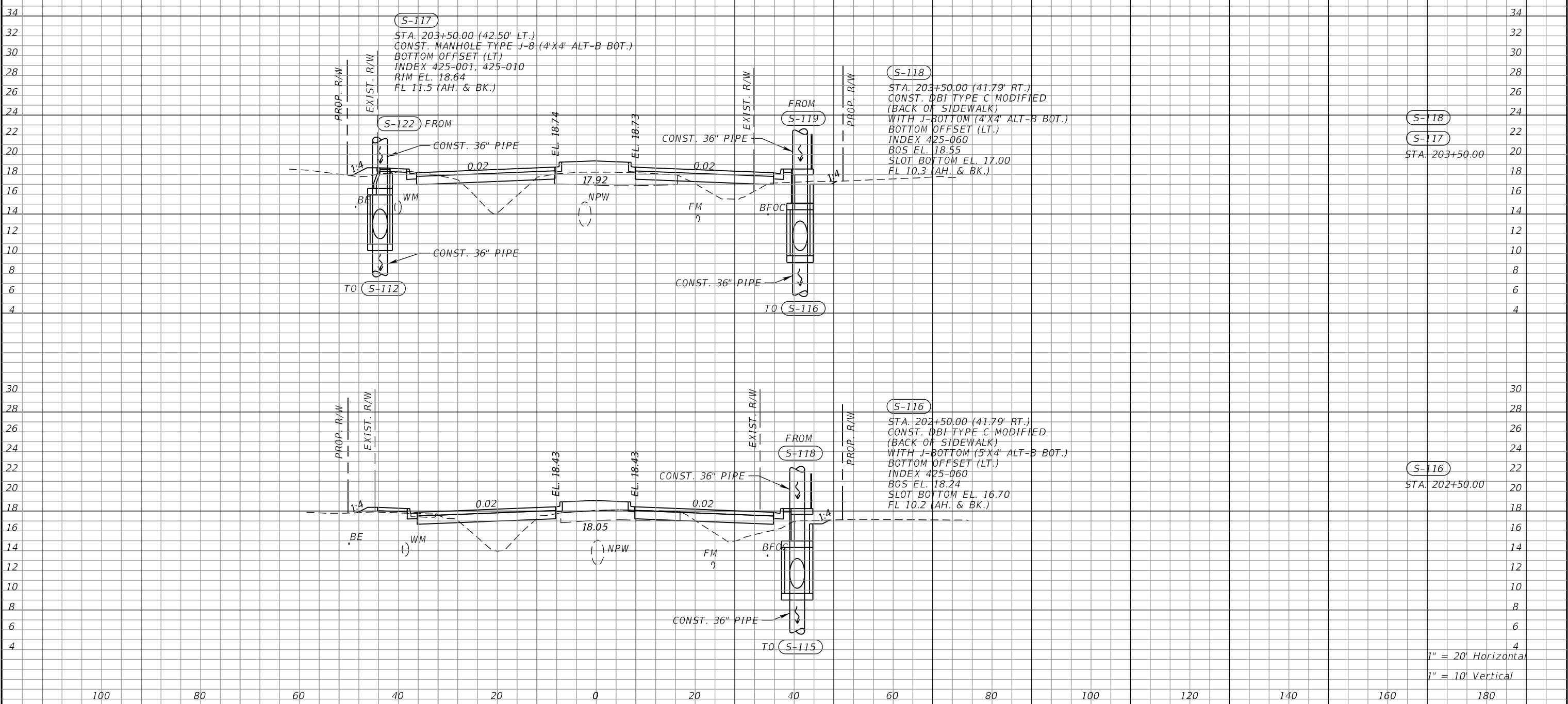
Manatee County
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

DRAINAGE STRUCTURES (30)
63RD AVE E

SHEET NO.	
-----------	--

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← 63RD AVE



34
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100 80 60 40 20 0 20 40 60 80 100 120 140 160 180

S-118
S-117
STA. 203+50.00

S-116
STA. 202+50.00

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

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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RCA
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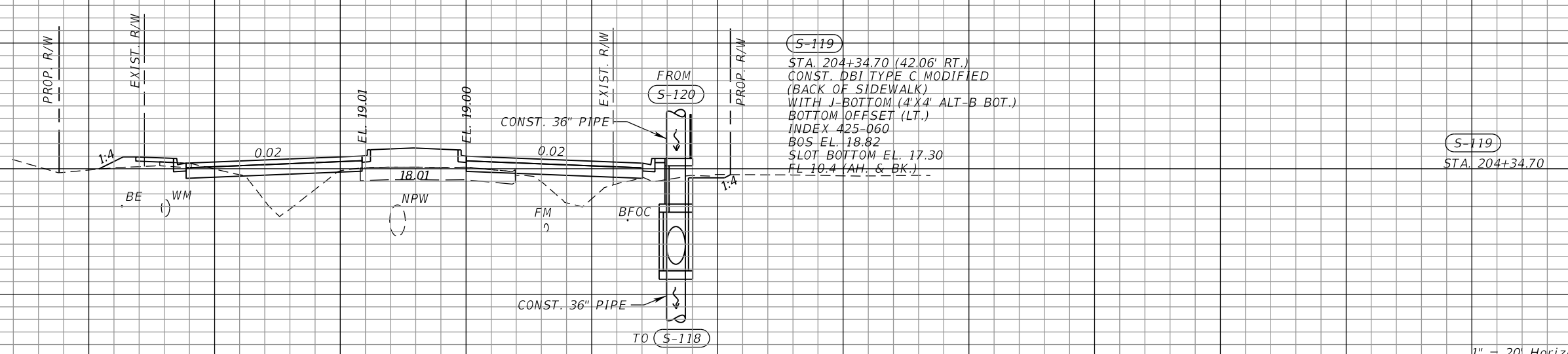
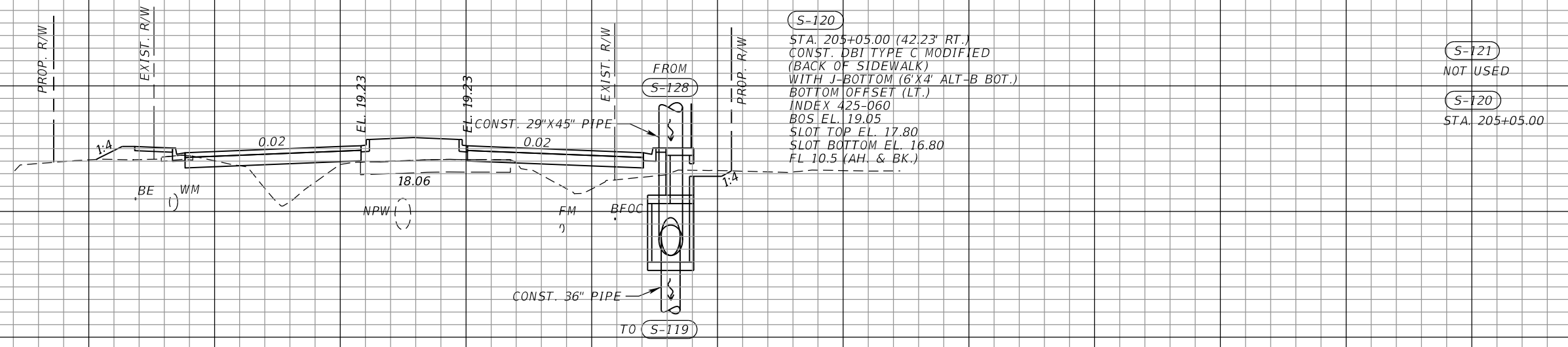
Manatee County
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

DRAINAGE STRUCTURES (31)
63RD AVE E

SHEET NO.

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← 63RD AVE



S-121
 NOT USED

S-120
 STA. 205+05.00

S-119
 STA. 204+34.70

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

100 80 60 40 20 0 20 40 60 80 100 120 140 160 180

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			DRAWN BY	DKA	PROJECT NO.
			CHECKED BY	TAP	6107860

RGA
 RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

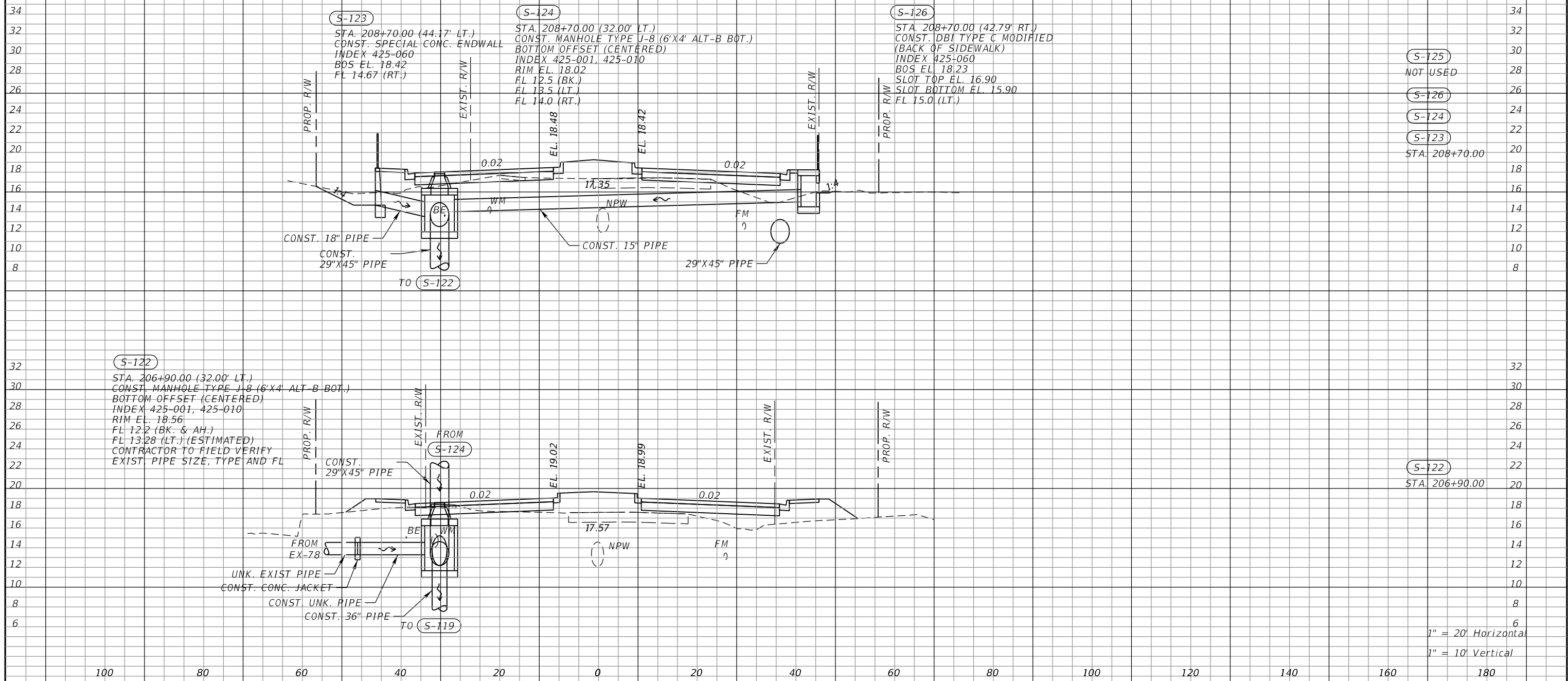
Manatee County
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 1022 26th Avenue East
 Bradenton, FL 34208

DRAINAGE STRUCTURES (32)
63RD AVE E

SHEET NO.

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63RD AVE



S-125
NOT USED

S-126

S-124

S-123

STA. 208+70.00

S-122

STA. 206+90.00

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

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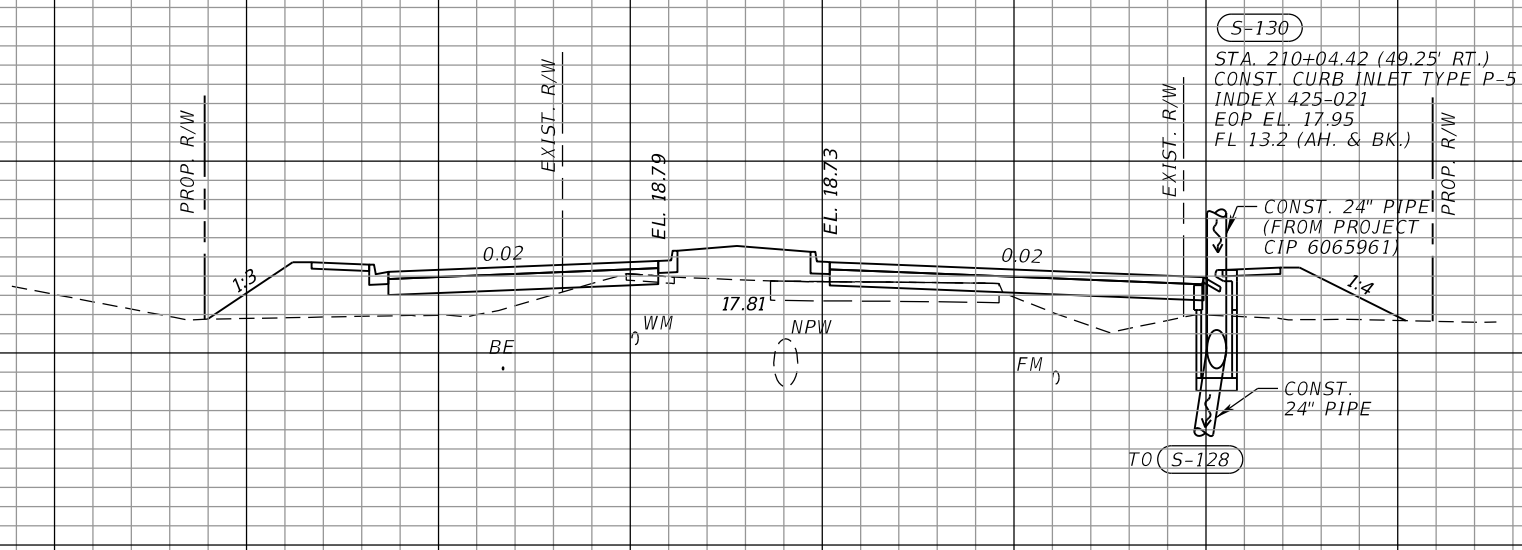
Manatee County
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 Bradenton, FL 34208

DRAINAGE STRUCTURES (33)
63RD AVE E

SHEET NO.

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63RD AVE



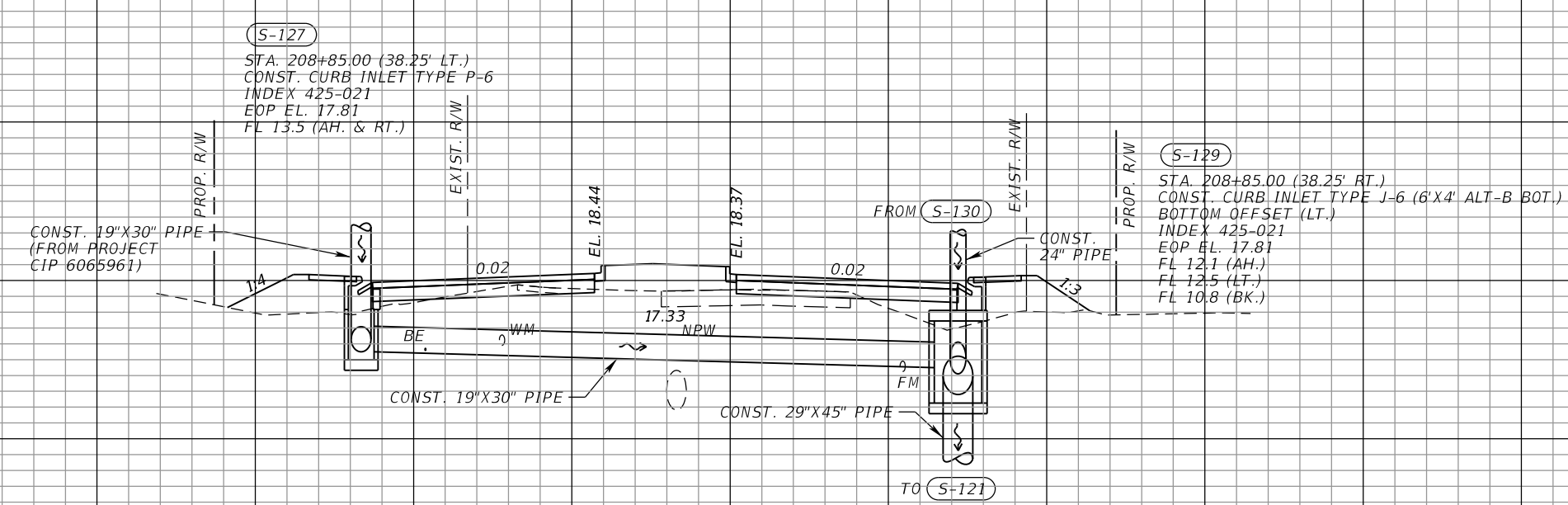
(S-131) TO (S-199)
NOT USED
(S-130)
STA. 210+04.42

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(S-128)
NOT USED
(S-129)
(S-127)
STA. 208+85.00

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

100 80 60 40 20 0 20 40 60 80 100 120 140 160 180

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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RCA
 RICHARD D. UPTGRAFF, P.E.
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 SARASOTA, FL 34240

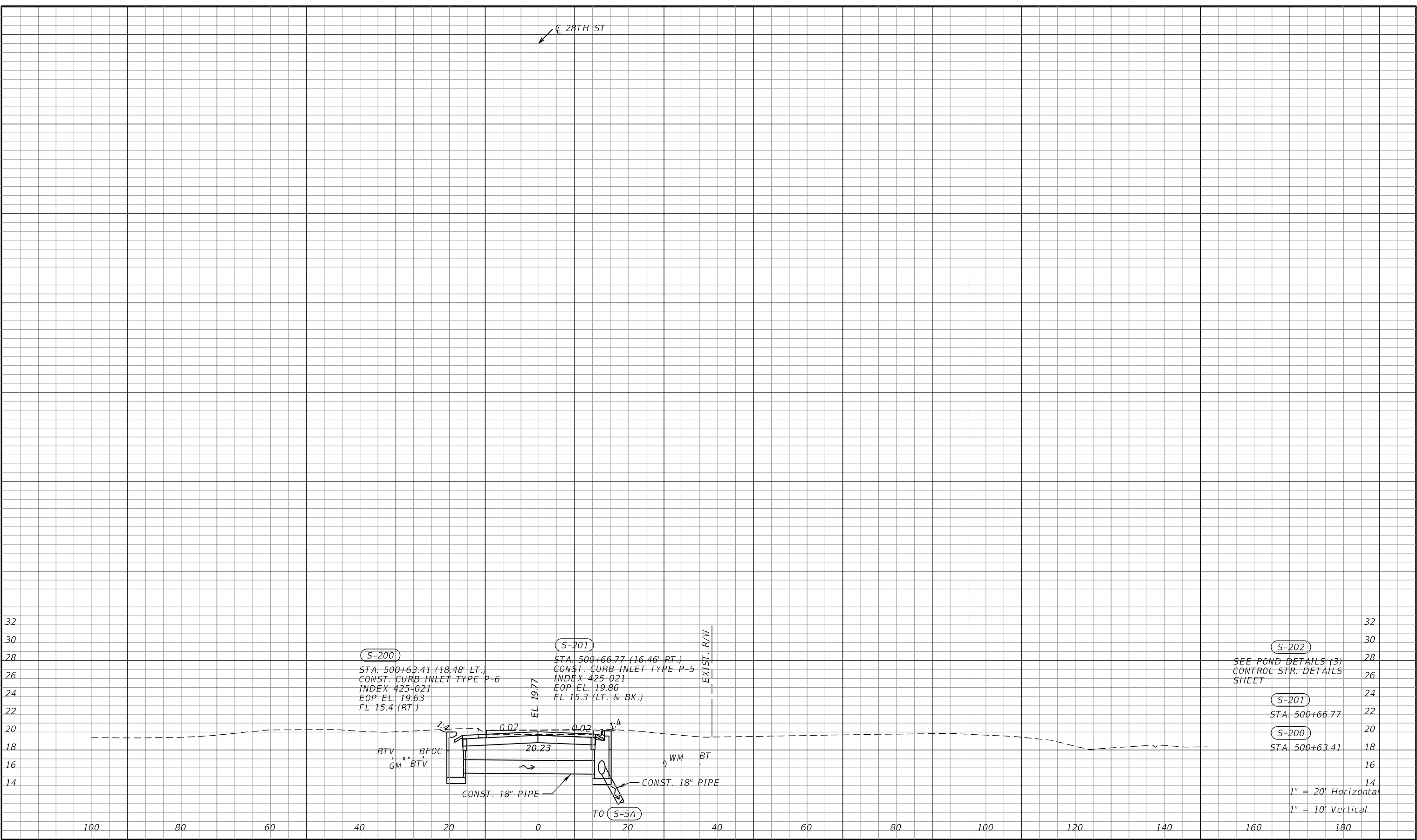
Manatee County
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 1022 26th Avenue East
 Bradenton, FL 34208

DRAINAGE STRUCTURES (34)
63RD AVE E

SHEET NO.

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CL 28TH ST



S-200
 STA: 500+63.41 (18.48' LT.)
 CONST. CURB INLET TYPE P-6
 INDEX 425-021
 EOP EL. 19.63
 FL 15.4 (RT.)

S-201
 STA: 500+66.77 (16.46' RT.)
 CONST. CURB INLET TYPE P-5
 INDEX 425-021
 EOP EL. 19.86
 FL 15.3 (LT. & BK.)

S-202
 SEE POND DETAILS (3)
 CONTROL STR. DETAILS
 SHEET

S-201
 STA: 500+66.77

S-200
 STA: 500+63.41

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

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	09/2022
			DRAWN BY	DKA	PROJECT NO.
			CHECKED BY	TAP	6107860

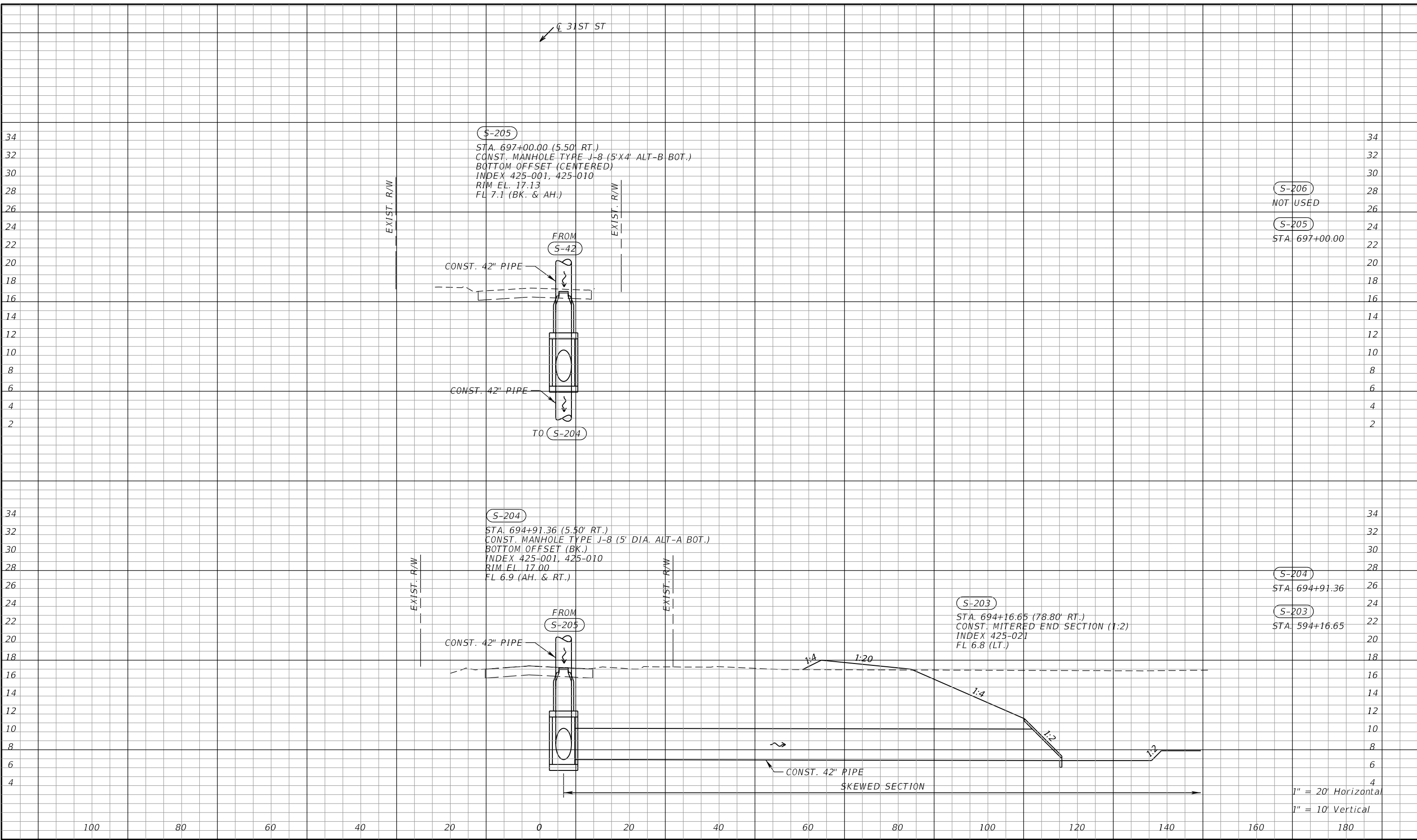
RGA
 RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
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 SARASOTA, FL 34240

Manatee County FLORIDA
 PUBLIC WORKS DEPARTMENT
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DRAINAGE STRUCTURES (1)
28TH ST

SHEET NO.

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			DESIGNED BY	RDU	09/2022
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			CHECKED BY	TAP	6107860

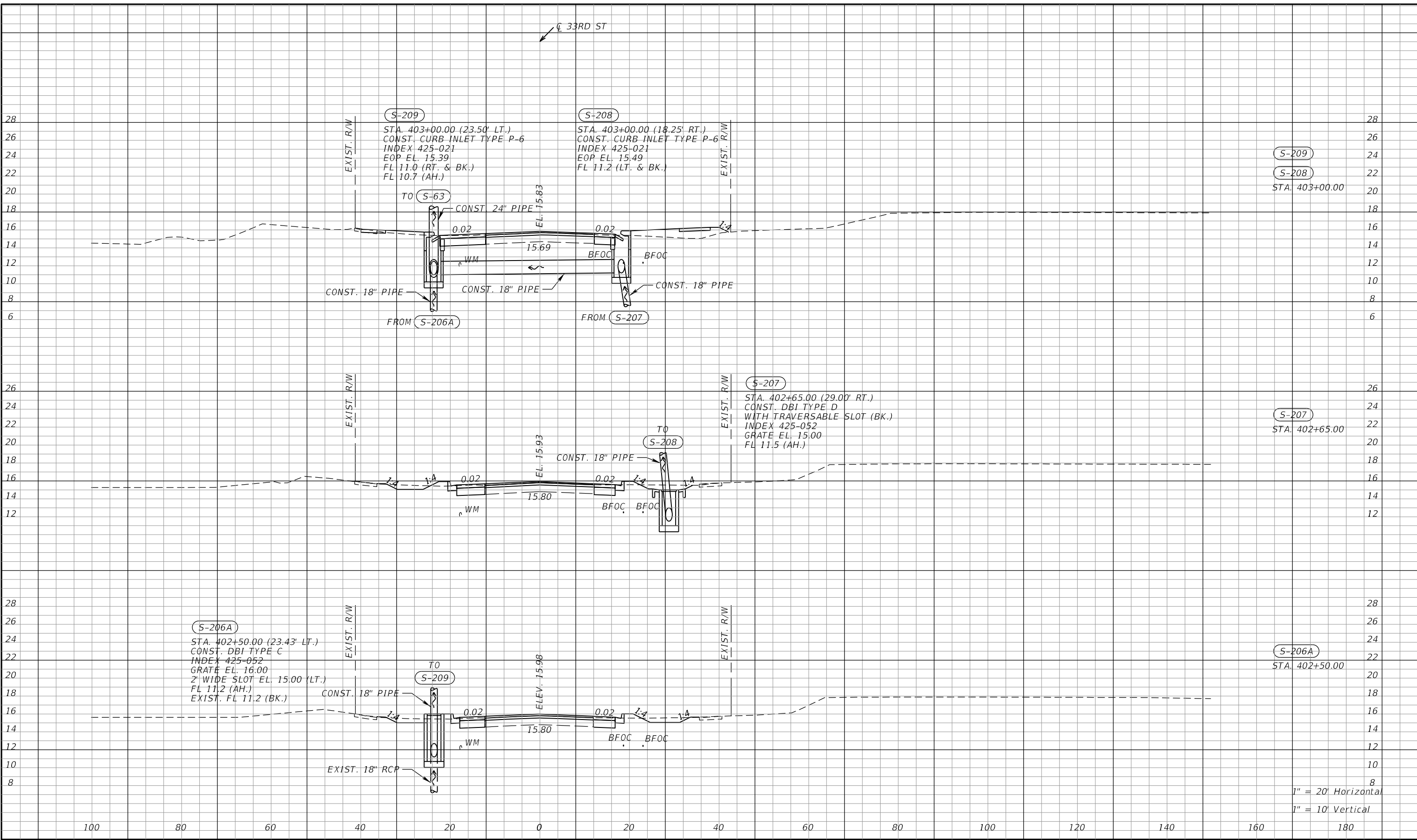
RCA
 RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
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 SUITE 104
 SARASOTA, FL 34240

Manatee County
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DRAINAGE STRUCTURES (1)
31ST ST

SHEET NO.

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

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			CHECKED BY	TAP	6107860



RICHARD D. UPTGRAFF, P.E.
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7020 PROFESSIONAL PARKWAY E
SUITE 104
SARASOTA, FL 34240

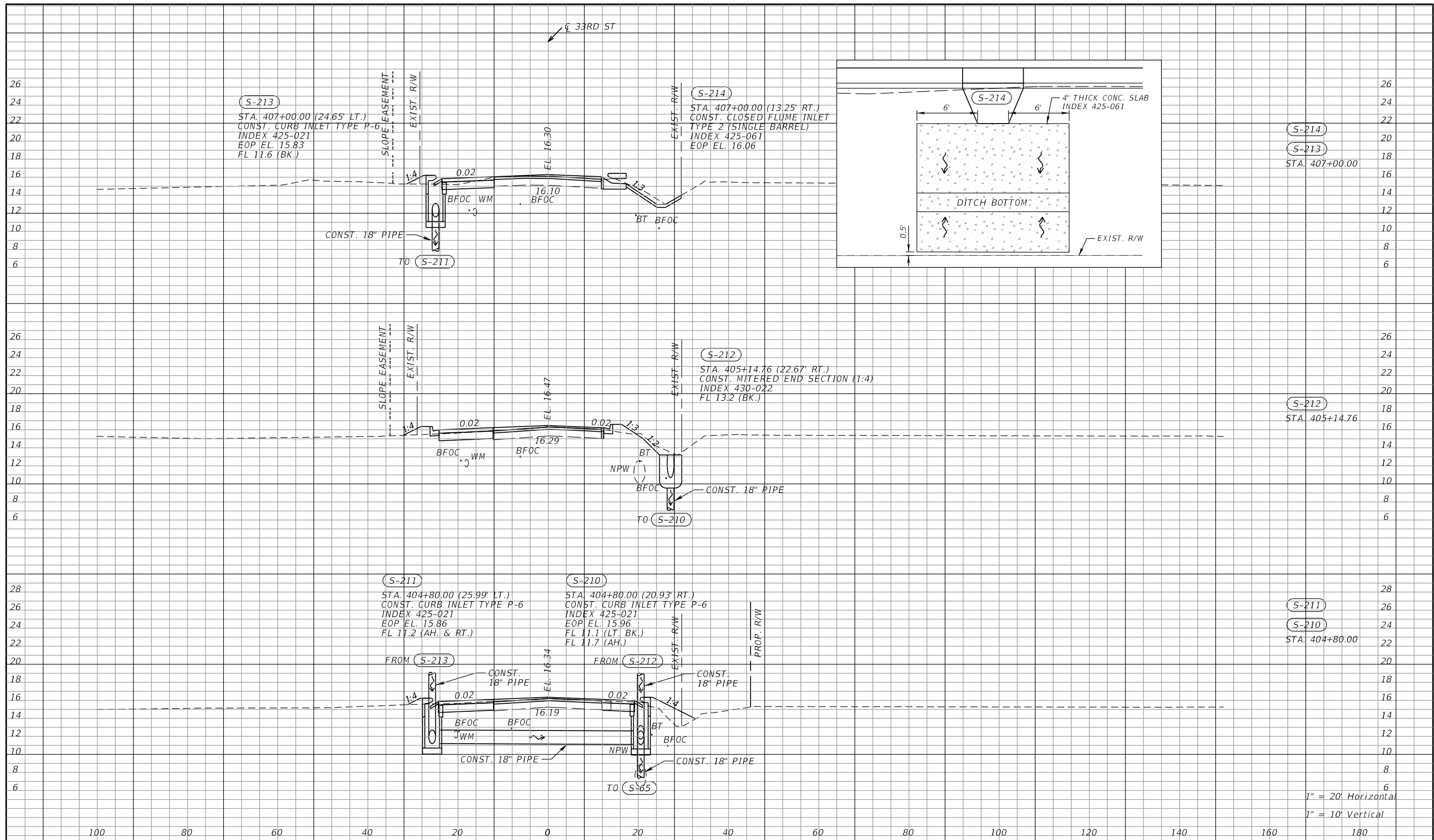


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ENGINEERING SERVICES
1022 26th Avenue East
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DRAINAGE STRUCTURES (1)
33RD ST

SHEET NO.

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1" = 10' Vertical

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 RICHARD D. UPTGRAFF, P.E.
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 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

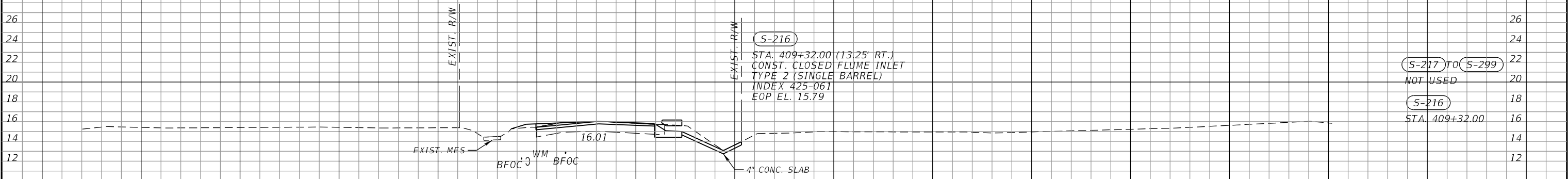
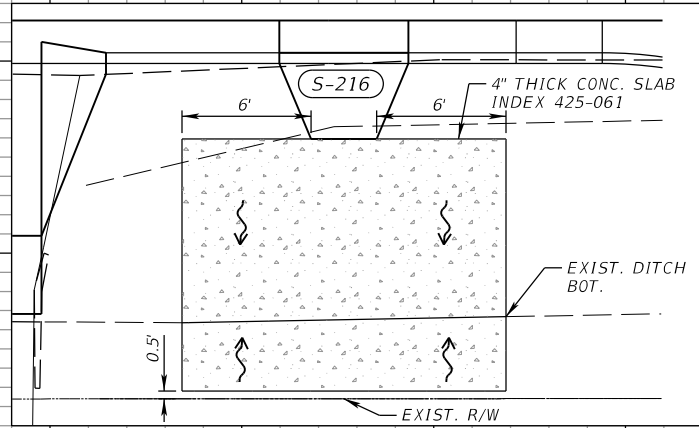
Manatee County
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

DRAINAGE STRUCTURES (2)
33RD ST

SHEET NO.

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

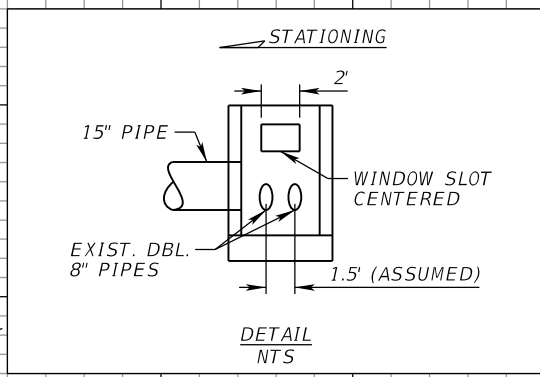
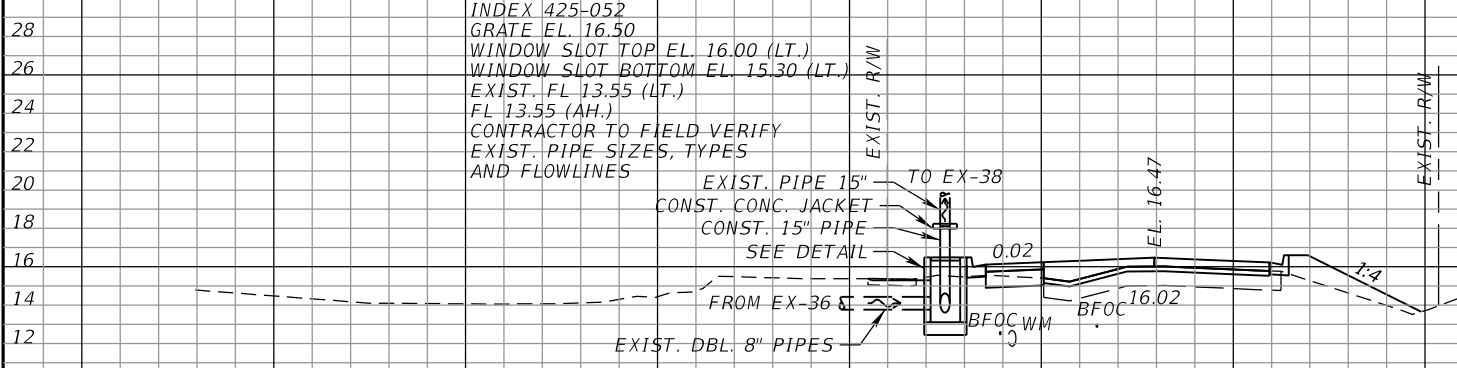
CL 33RD ST



S-217 TO S-299
NOT USED

S-216
STA. 409+32.00

S-215
STA. 408+18.00 (21.80' LT.)
CONST. DBI TYPE D
INDEX 425-052
GRATE EL. 16.50
WINDOW SLOT TOP EL. 16.00 (LT.)
WINDOW SLOT BOTTOM EL. 15.30 (LT.)
EXIST. FL 13.55 (LT.)
FL 13.55 (AH.)
CONTRACTOR TO FIELD VERIFY
EXIST. PIPE SIZES, TYPES
AND FLOWLINES



S-215
STA. 408+18.00

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

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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RCA
RICHARD D. UPTGRAFF, P.E.
LICENSE NUMBER 58789
PATEL, GREENE & ASSOCIATES, LLC
7020 PROFESSIONAL PARKWAY E
SUITE 104
SARASOTA, FL 34240

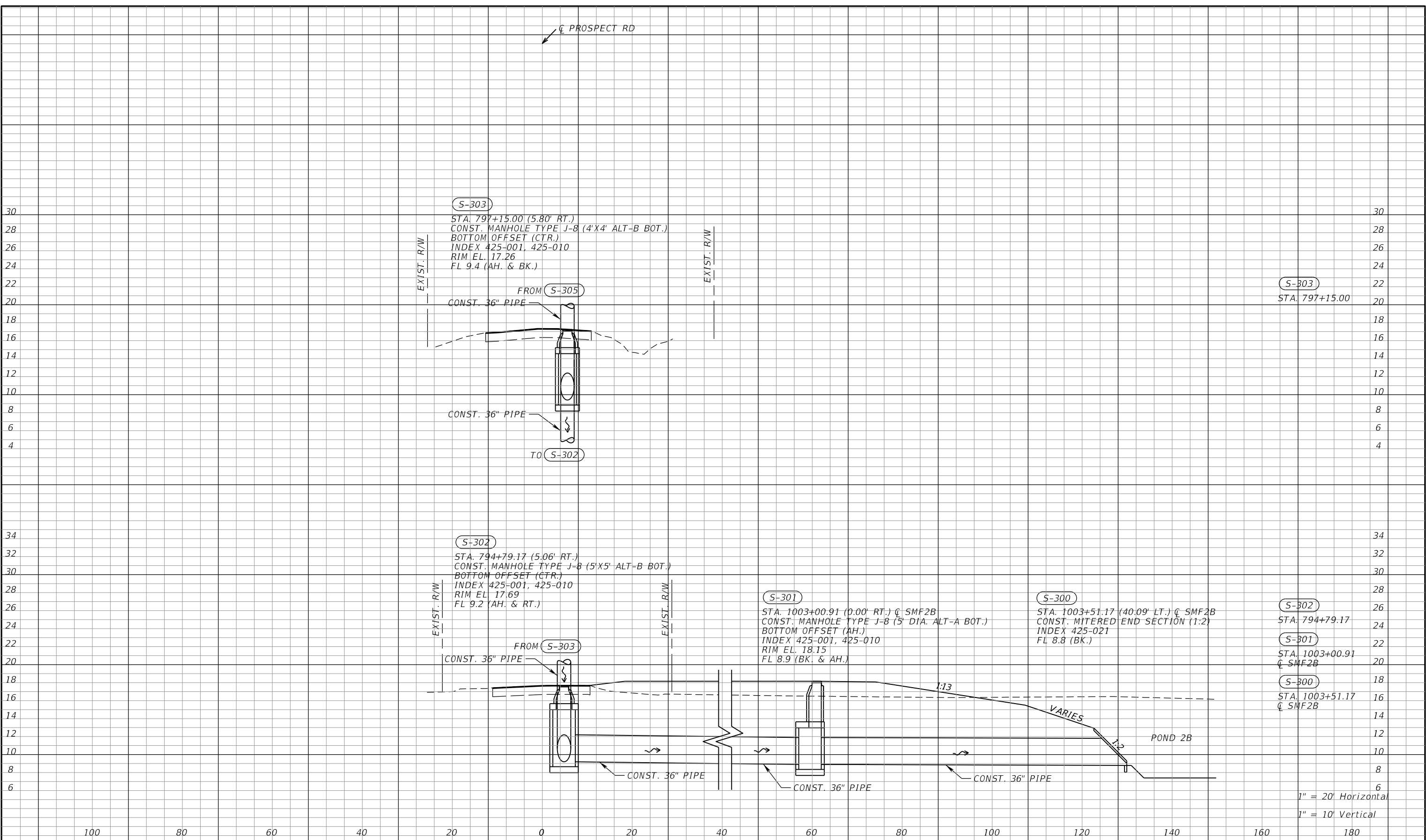
Manatee County
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

DRAINAGE STRUCTURES (3)
33RD ST

SHEET NO.

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☐ PROSPECT RD



S-303
 STA. 797+15.00 (5.80' RT.)
 CONST. MANHOLE TYPE J-8 (4'X4' ALT-B BOT.)
 BOTTOM OFFSET (CTR.)
 INDEX 425-001, 425-010
 RIM EL. 17.26
 FL 9.4 (AH. & BK.)

S-302
 STA. 794+79.17 (5.06' RT.)
 CONST. MANHOLE TYPE J-8 (5'X5' ALT-B BOT.)
 BOTTOM OFFSET (CTR.)
 INDEX 425-001, 425-010
 RIM EL. 17.69
 FL 9.2 (AH. & RT.)

S-301
 STA. 1003+00.91 (0.00' RT.) ☐ SMF2B
 CONST. MANHOLE TYPE J-8 (5' DIA. ALT-A BOT.)
 BOTTOM OFFSET (AH.)
 INDEX 425-001, 425-010
 RIM EL. 18.15
 FL 8.9 (BK. & AH.)

S-300
 STA. 1003+51.17 (40.09' LT.) ☐ SMF2B
 CONST. MITERED END SECTION (1:2)
 INDEX 425-021
 FL 8.8 (BK.)

S-302
 STA. 794+79.17

S-301
 STA. 1003+00.91
 ☐ SMF2B

S-300
 STA. 1003+51.17
 ☐ SMF2B

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

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 SARASOTA, FL 34240

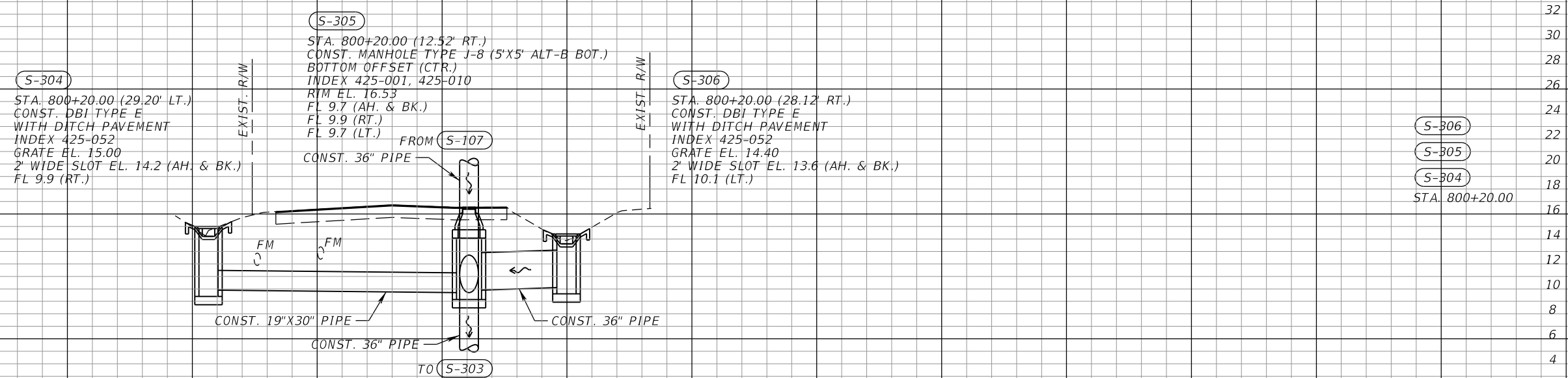
Manatee County
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 Bradenton, FL 34208

DRAINAGE STRUCTURES (1)
PROSPECT RD

SHEET NO.

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↙ PROSPECT RD



S-306
S-305
S-304
STA. 800+20.00

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

100 80 60 40 20 0 20 40 60 80 100 120 140 160 180

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	09/2022
			DRAWN BY	DKA	PROJECT NO.
			CHECKED BY	TAP	6107860

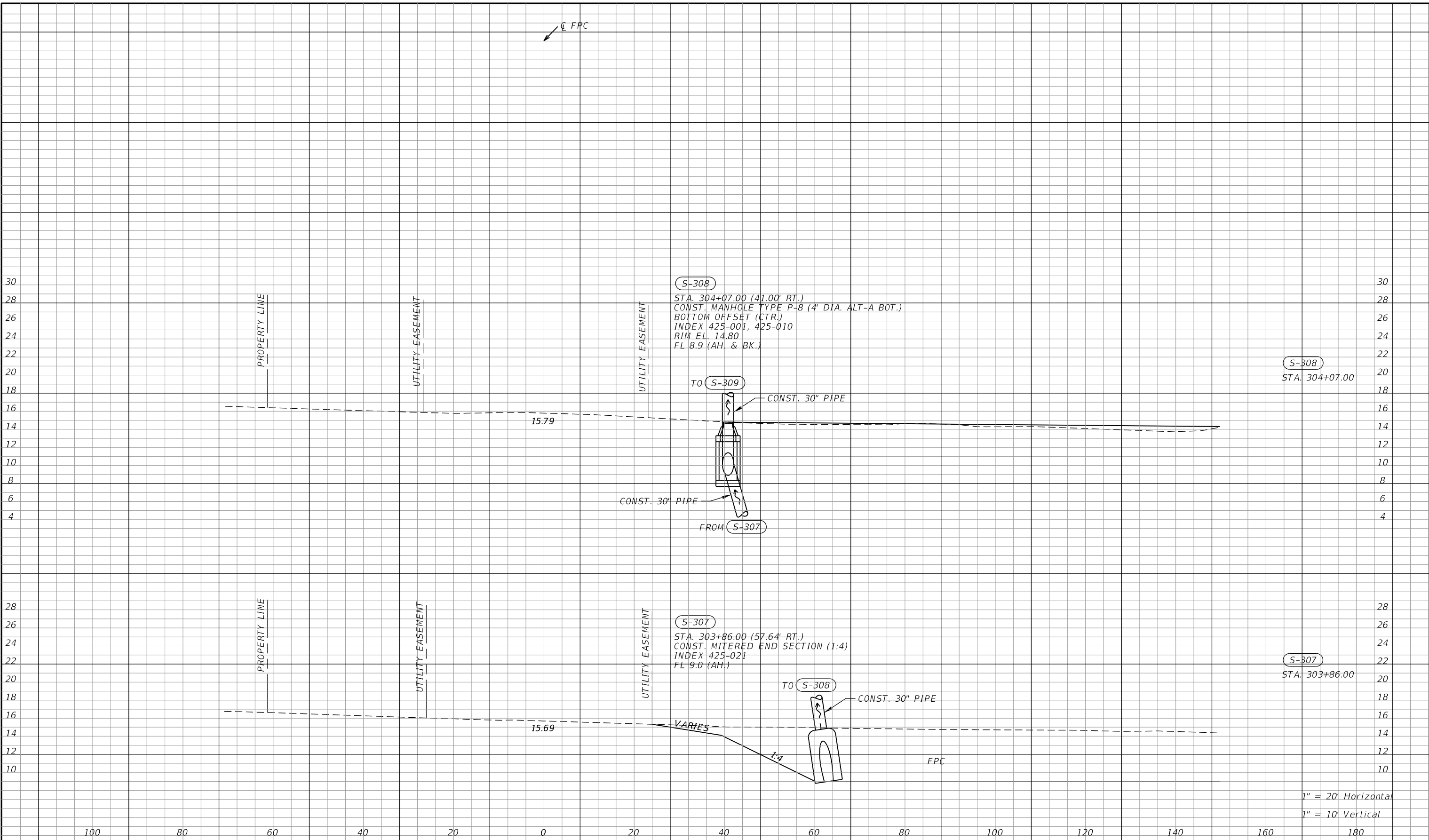
RCA RICHARD D. UPTGRAFF, P.E.
LICENSE NUMBER 58789
PATEL, GREENE & ASSOCIATES, LLC
7020 PROFESSIONAL PARKWAY E
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SARASOTA, FL 34240

Manatee County FLORIDA PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
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DRAINAGE STRUCTURES (2)
PROSPECT RD

SHEET NO.

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

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			CHECKED BY	TAP	6107860

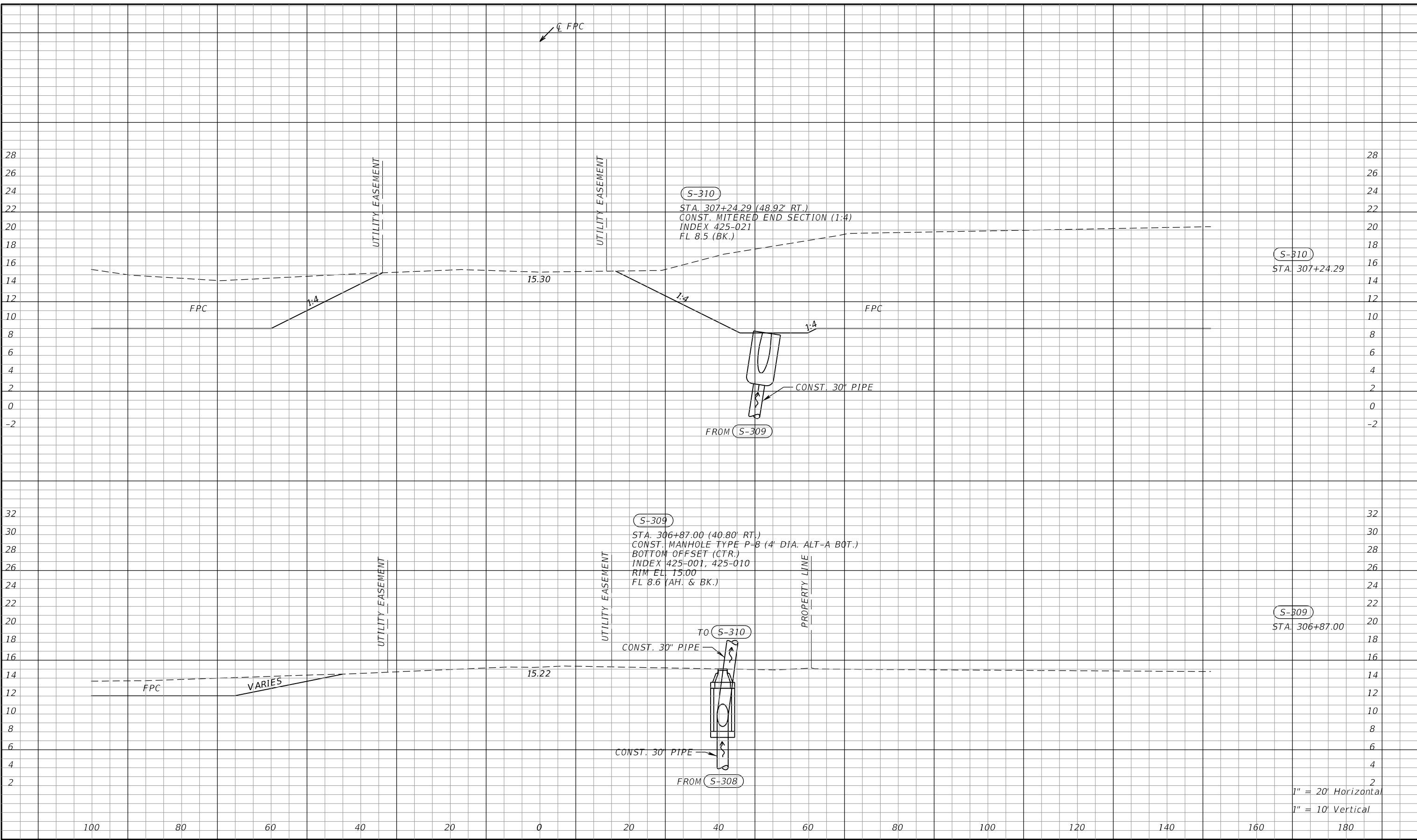
RGA
 RICHARD D. UPTGRAFF, P.E.
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DRAINAGE STRUCTURES (1)
 FPC

SHEET NO.

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1" = 10' Vertical

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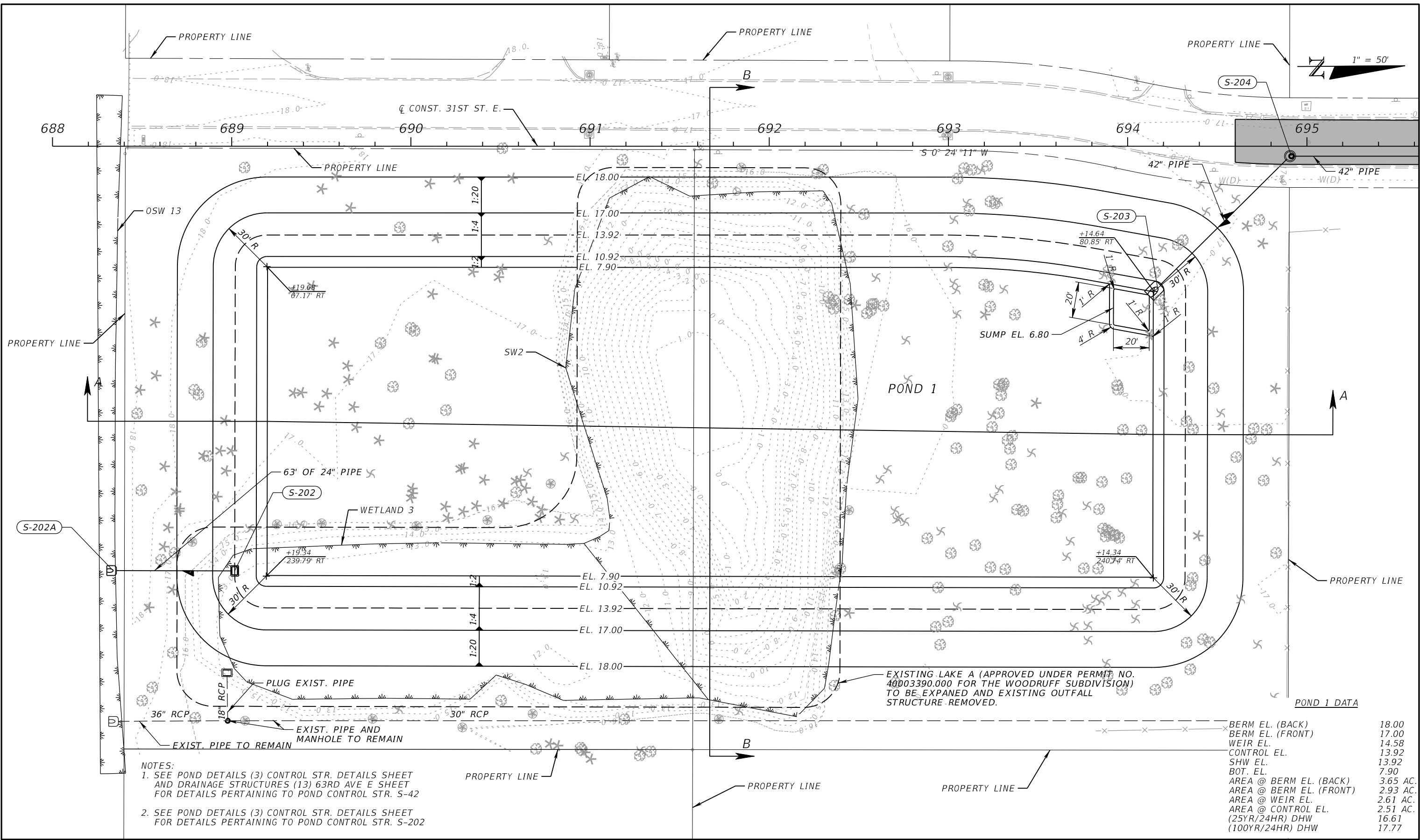


PUBLIC WORKS DEPARTMENT
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 1022 26th Avenue East
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DRAINAGE STRUCTURES (2)
FPC

SHEET NO.

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NOTES:
 1. SEE POND DETAILS (3) CONTROL STR. DETAILS SHEET AND DRAINAGE STRUCTURES (13) 63RD AVE E SHEET FOR DETAILS PERTAINING TO POND CONTROL STR. S-42
 2. SEE POND DETAILS (3) CONTROL STR. DETAILS SHEET FOR DETAILS PERTAINING TO POND CONTROL STR. S-202

EXISTING LAKE A (APPROVED UNDER PERMIT NO. 40003390.000 FOR THE WOODRUFF SUBDIVISION) TO BE EXPANDED AND EXISTING OUTFALL STRUCTURE REMOVED.

POND 1 DATA

BERM EL. (BACK)	18.00
BERM EL. (FRONT)	17.00
WEIR EL.	14.58
CONTROL EL.	13.92
SHW EL.	13.92
BOT. EL.	7.90
AREA @ BERM EL. (BACK)	3.65 AC.
AREA @ BERM EL. (FRONT)	2.93 AC.
AREA @ WEIR EL.	2.61 AC.
AREA @ CONTROL EL.	2.51 AC.
(25YR/24HR) DHW	16.61
(100YR/24HR) DHW	17.77

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	03/2023
			DRAWN BY	ZK	PROJECT NO.
			CHECKED BY	TAP	6107860

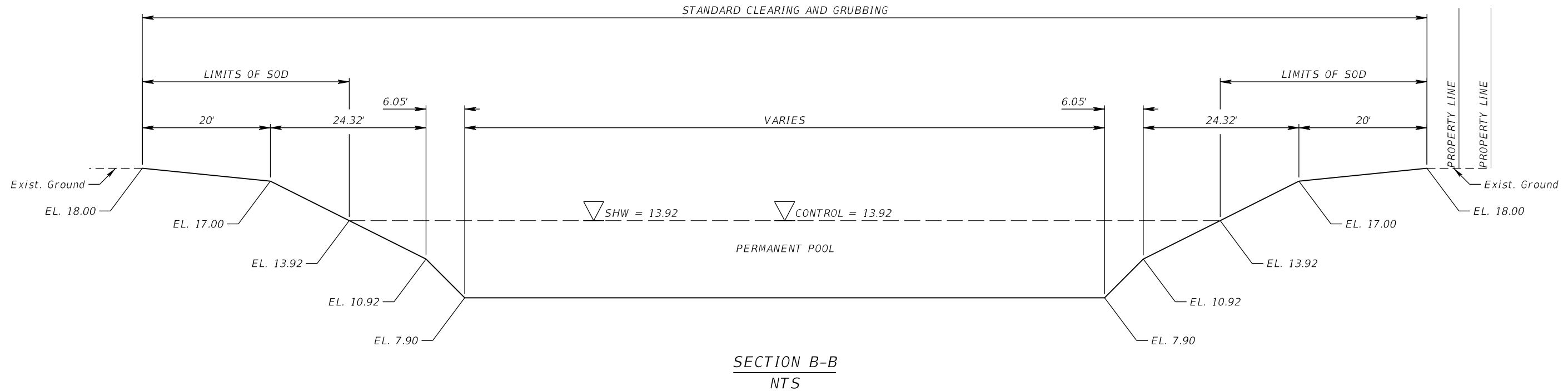
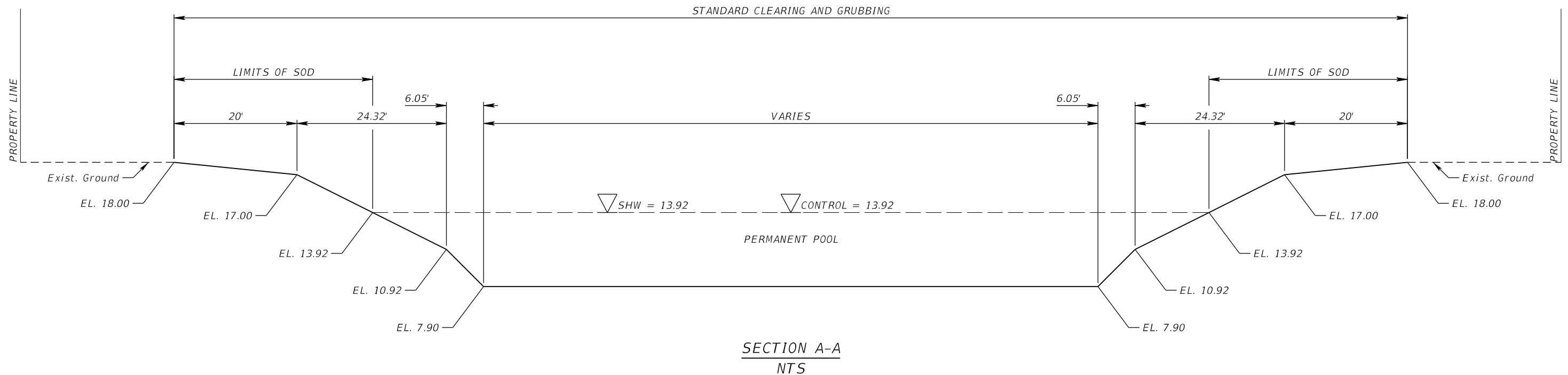
RGA
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POND DETAILS (1)
POND 1 PLAN LAYOUT

SHEET NO.

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PGA
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 SARASOTA, FL 34240

Manatee County
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 1022 26th Avenue East
 Bradenton, FL 34208

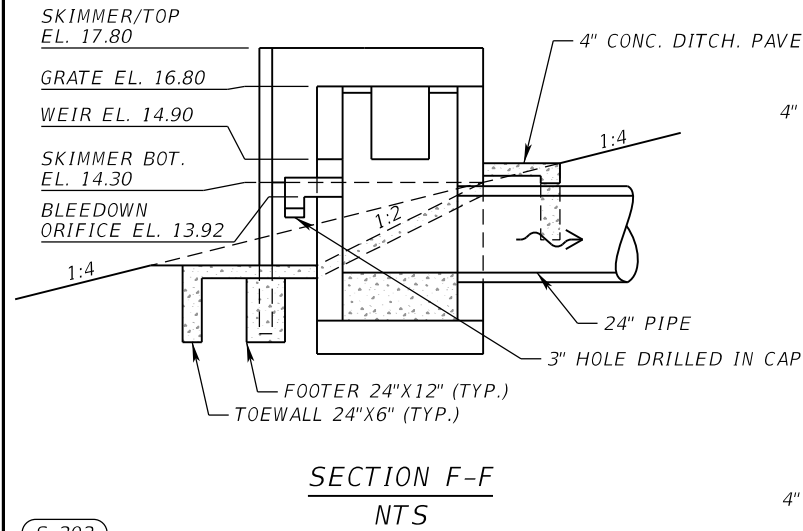
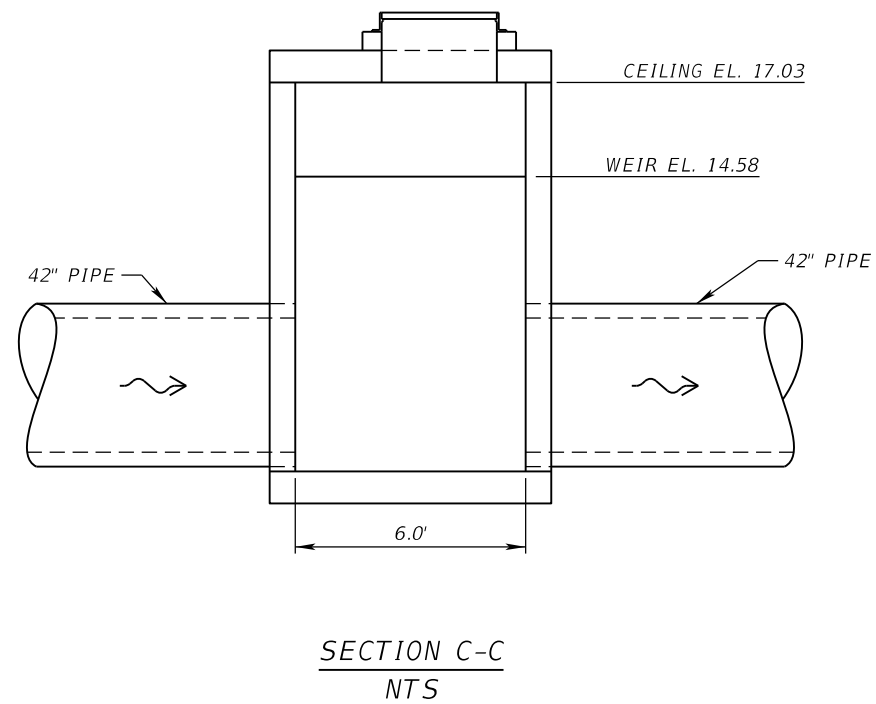
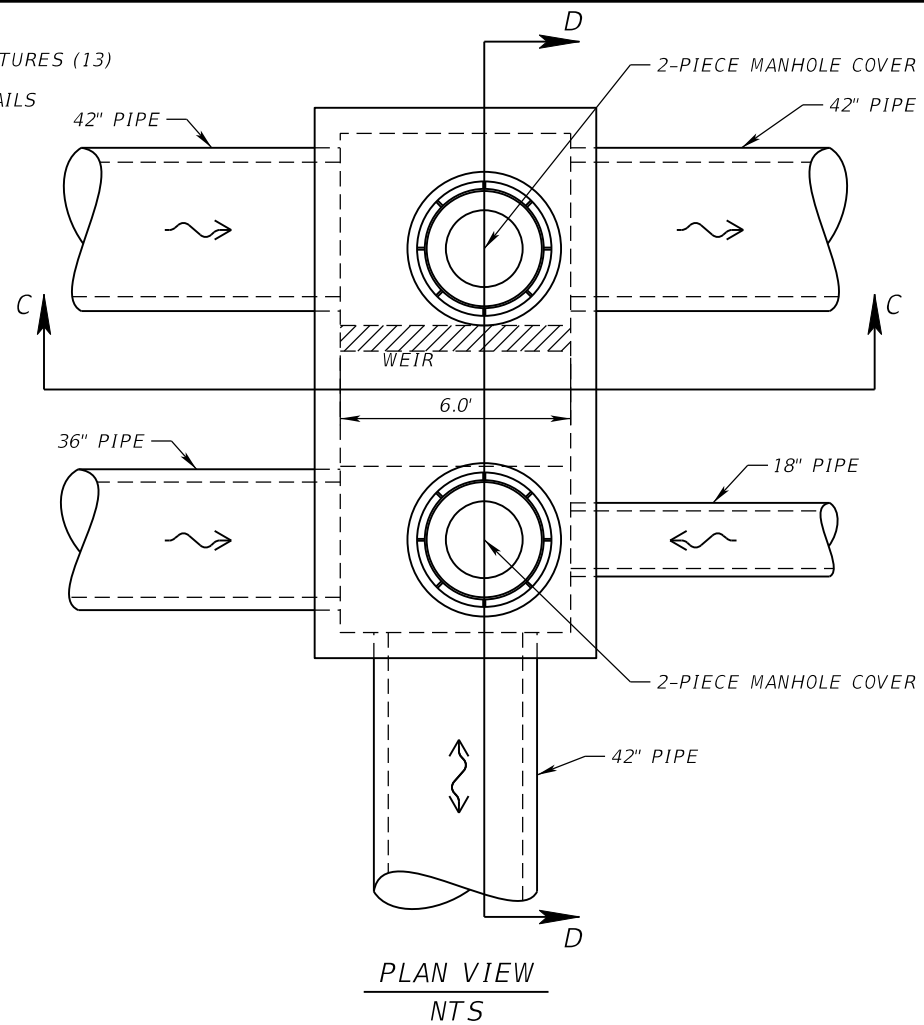
POND DETAILS (2)
POND 1 TYPICAL SECTION

SHEET NO.

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

S-42

SEE DRAINAGE STRUCTURES (13)
63RD AVE E SHEET
FOR ADDITIONAL DETAILS

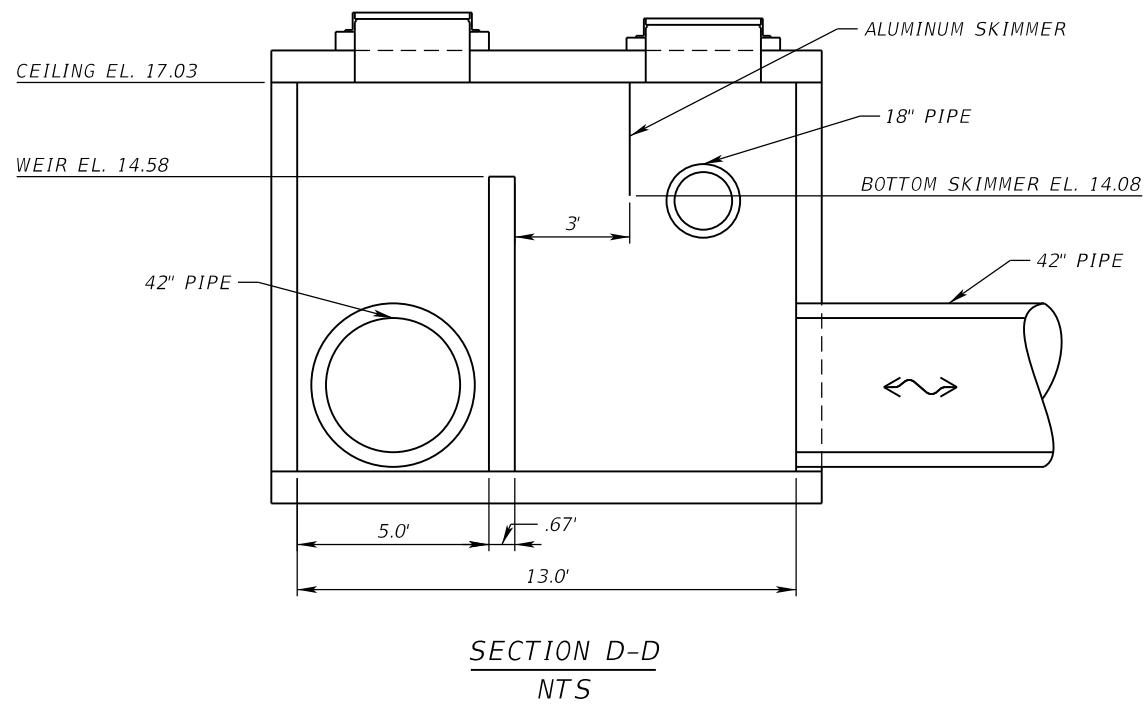
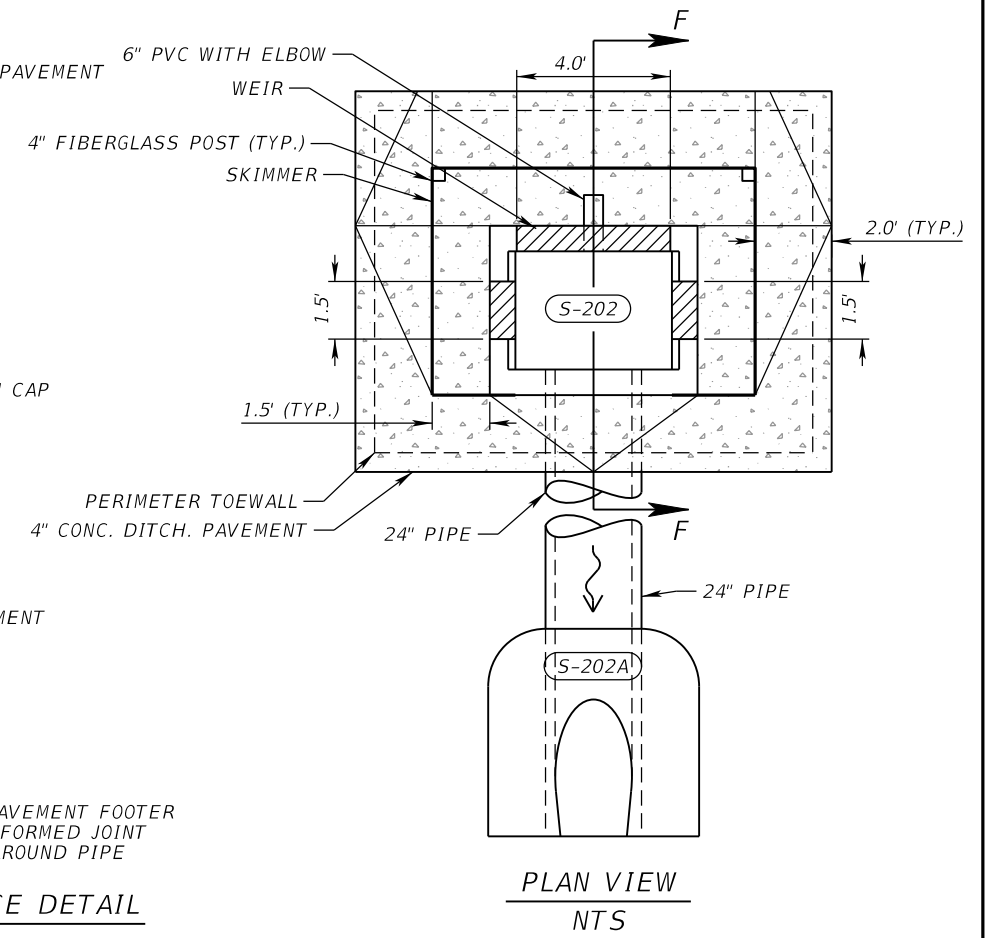
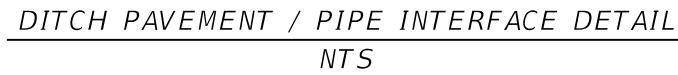


S-202

STA. 689+01.67 (236.83 RT.)
CONST DBI TYPE D
INDEX 425-052
GRATE EL. 16.80
WEIR EL. 14.90 (LT., AH. & RT.)
ORIFICE EL. 13.92
FL 11.7 (BK.)

S-202A

STA. 688+33.84 (236.69 RT.)
CONST MES (1:2)
INDEX 430-021
FL 11.5 (AH.)



NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	03/2023
			DRAWN BY	ZK	PROJECT NO.
			CHECKED BY	TAP	6107860



RICHARD D. UPTGRAFF, P.E.
LICENSE NUMBER 58789
PATEL, GREENE & ASSOCIATES, LLC
7020 PROFESSIONAL PARKWAY E
SUITE 104
SARASOTA, FL 34240



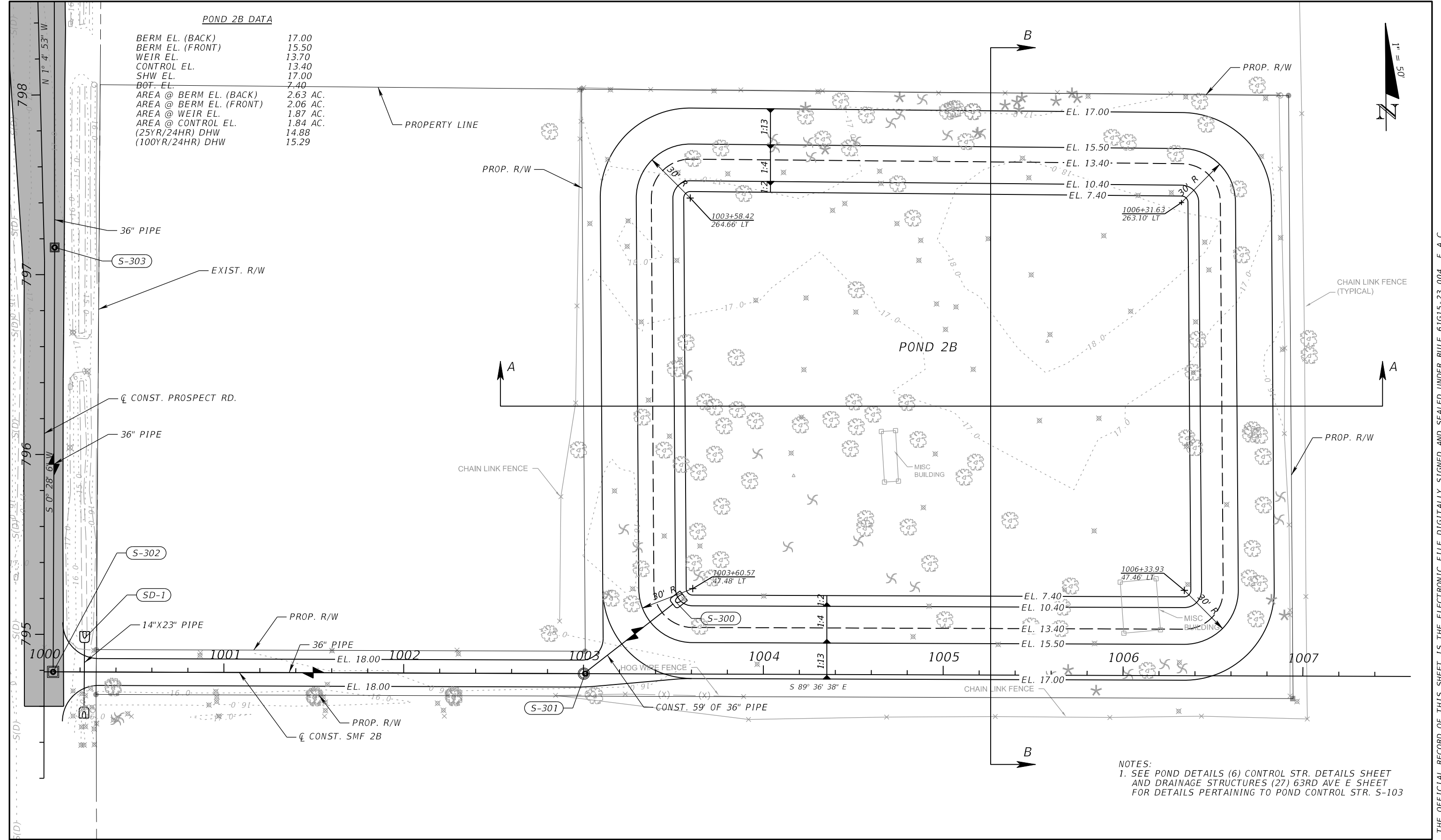
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

POND DETAILS (3)
CONTROL STR. DETAILS

SHEET NO.

POND 2B DATA

BERM EL. (BACK)	17.00
BERM EL. (FRONT)	15.50
WEIR EL.	13.70
CONTROL EL.	13.40
SHW EL.	17.00
BOT. EL.	7.40
AREA @ BERM EL. (BACK)	2.63 AC.
AREA @ BERM EL. (FRONT)	2.06 AC.
AREA @ WEIR EL.	1.87 AC.
AREA @ CONTROL EL.	1.84 AC.
(25YR/24HR) DHW	14.88
(100YR/24HR) DHW	15.29



NOTES:
 1. SEE POND DETAILS (6) CONTROL STR. DETAILS SHEET AND DRAINAGE STRUCTURES (27) 63RD AVE E SHEET FOR DETAILS PERTAINING TO POND CONTROL STR. S-103

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	03/2023
			DRAWN BY	ZK	PROJECT NO.
			CHECKED BY	TAP	6107860

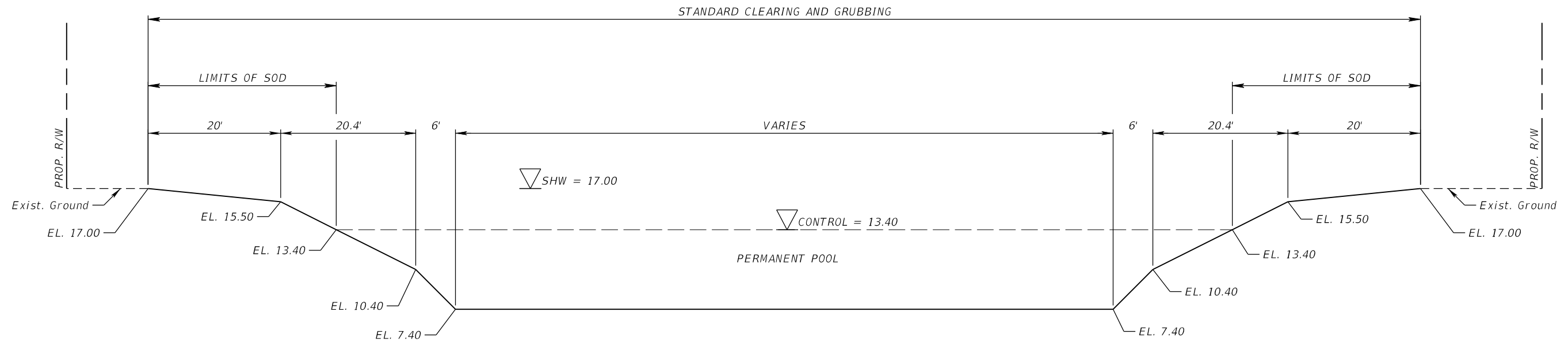
Richard D. Uptegraff, P.E.
 License Number 58789
Patel, Greene & Associates, LLC
 7020 Professional Parkway E
 Suite 104
 Sarasota, FL 34208

Manatee County Florida
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

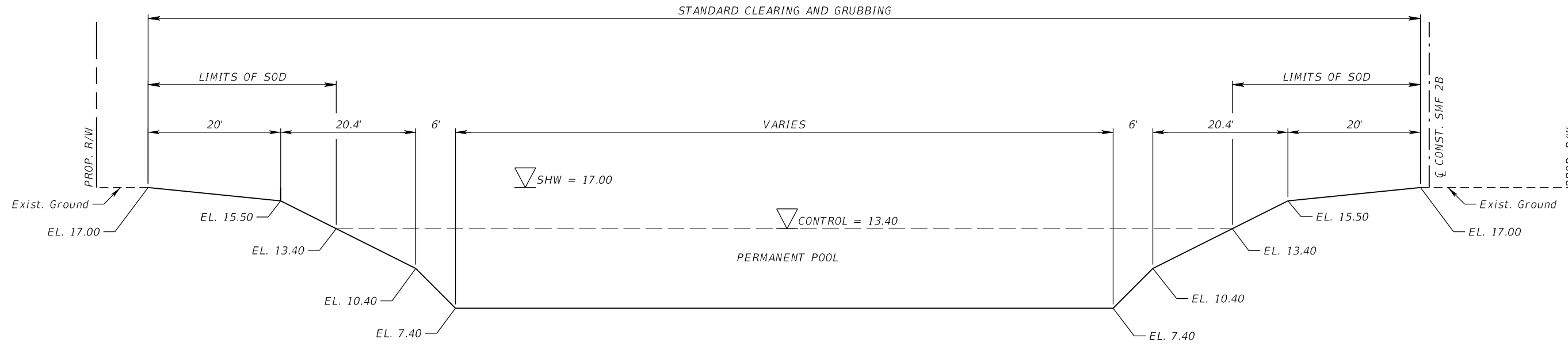
**POND DETAILS (4)
 POND 2B PLAN LAYOUT**

SHEET NO.

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SECTION A-A
NTS



SECTION B-B
NTS

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	03/2023
			DRAWN BY	ZK	PROJECT NO.
			CHECKED BY	TAP	6107860

PGA
 RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

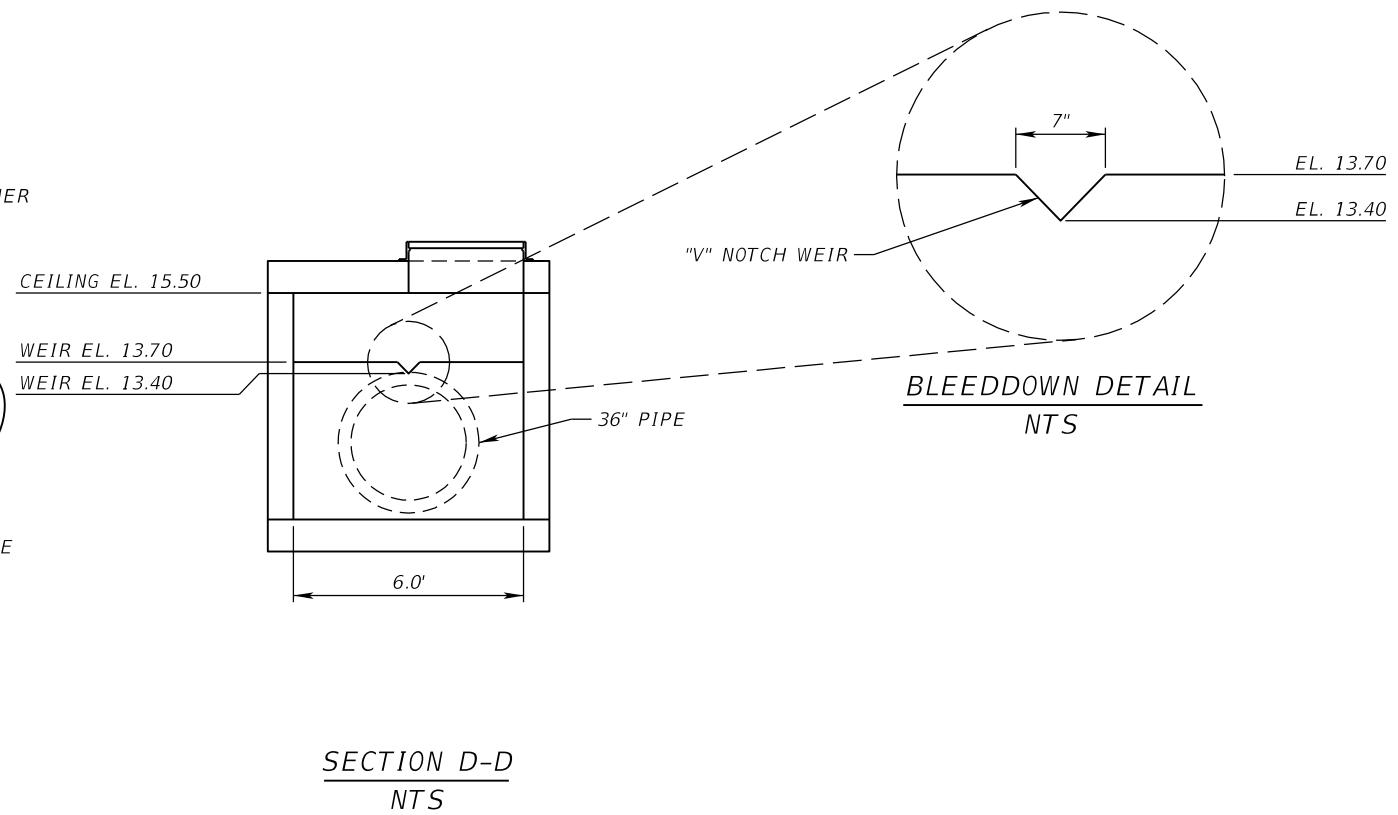
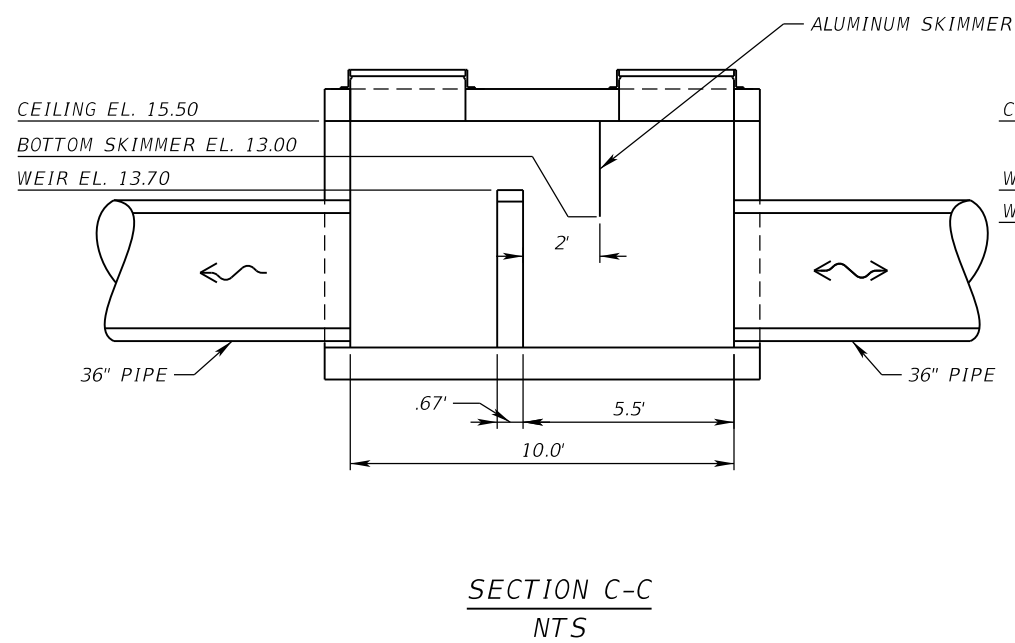
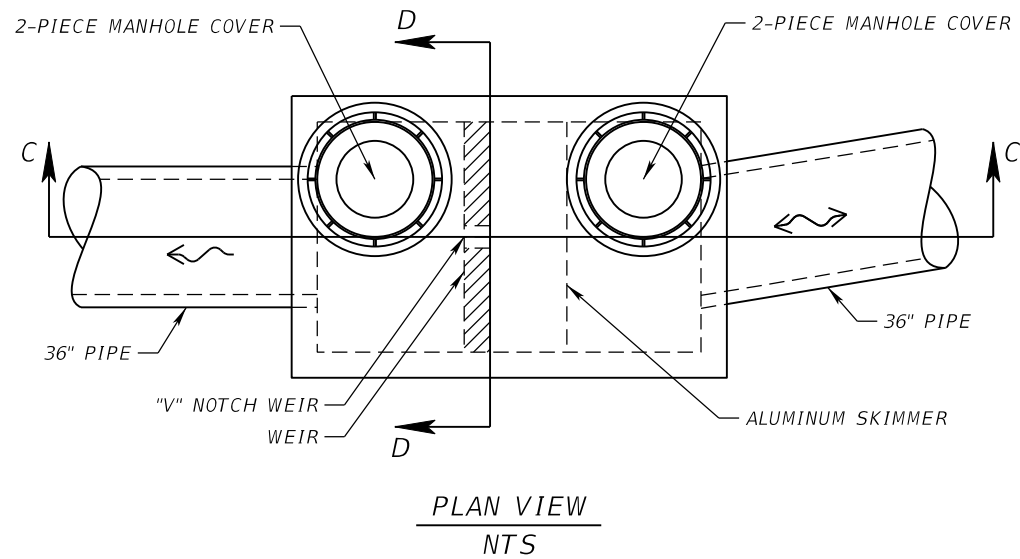
Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

POND DETAILS (5)
POND 2B TYPICAL SECTION

SHEET NO.

S-103

SEE DRAINAGE STRUCTURES (27)
63RD AVE E SHEET
FOR ADDITIONAL DETAILS



NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	03/2023
			DRAWN BY	ZK	PROJECT NO.
			CHECKED BY	TAP	6107860



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LICENSE NUMBER 58789
PATEL, GREENE & ASSOCIATES, LLC
7020 PROFESSIONAL PARKWAY E
SUITE 104
SARASOTA, FL 34240

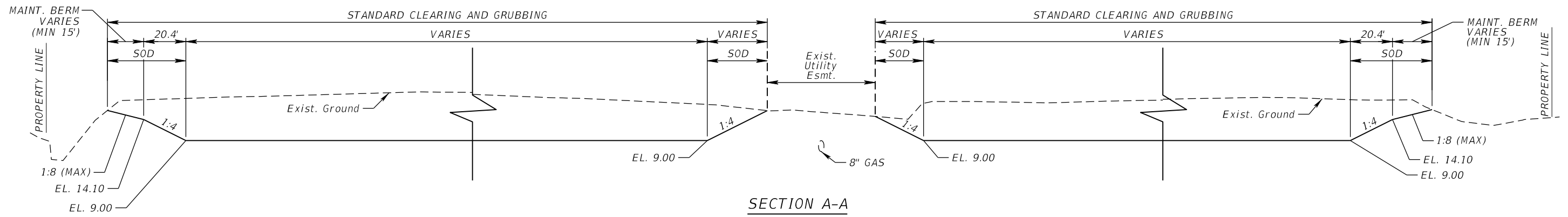


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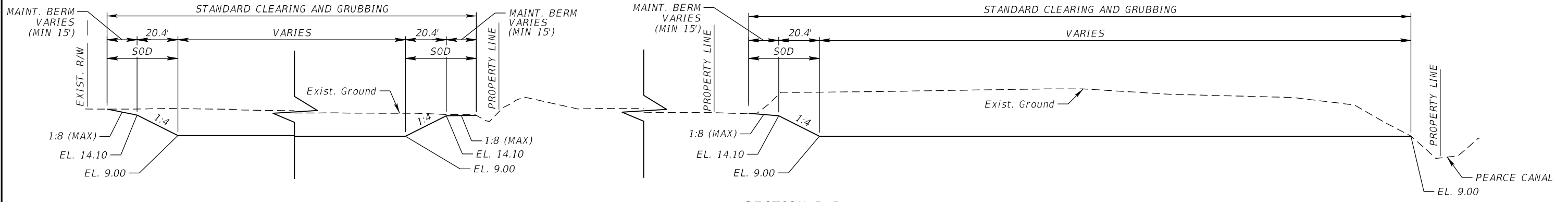
POND DETAILS (6)
CONTROL STR. DETAILS

SHEET NO.

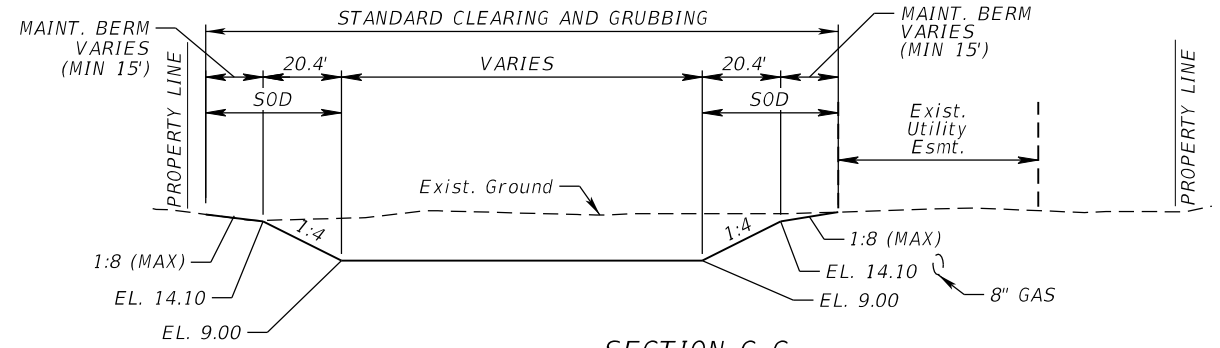
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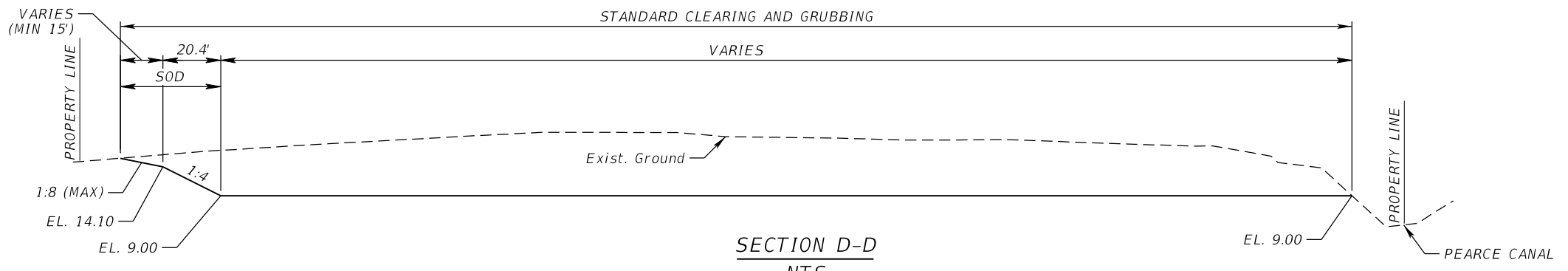
SECTION A-A
NTS



SECTION B-B
NTS



SECTION C-C
NTS



SECTION D-D
NTS

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	03/2023
			DRAWN BY	ZK	PROJECT NO.
			CHECKED BY	TAP	6107860

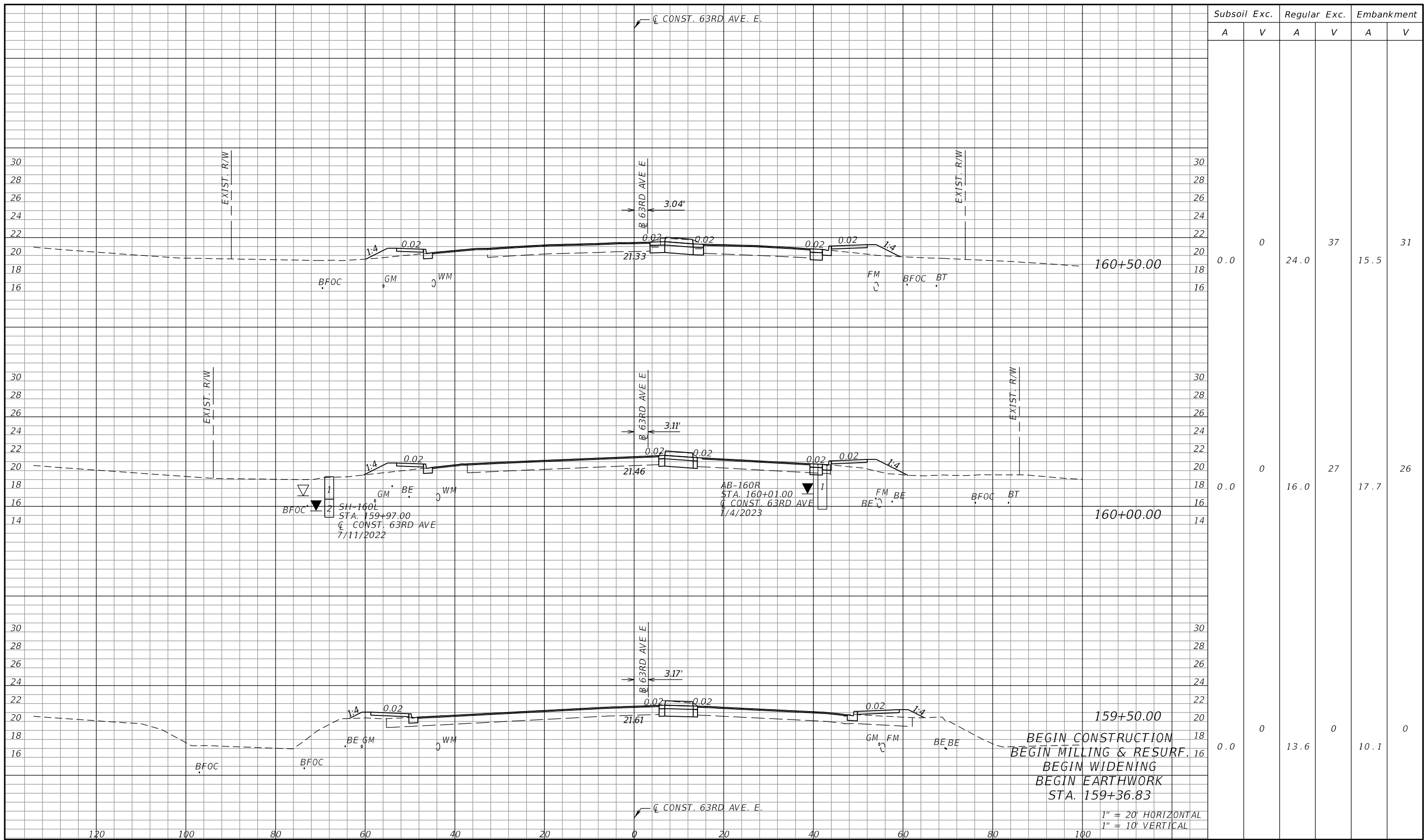
PGA
 RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

Manatee County
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POND DETAILS (8)
FPC SITE TYPICAL SECTION

SHEET NO.

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	24.0	37	15.5	31
0.0	0	16.0	27	17.7	26
0.0	0	13.6	0	10.1	0

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				DP	PROJECT NO.
				JPH	6107860

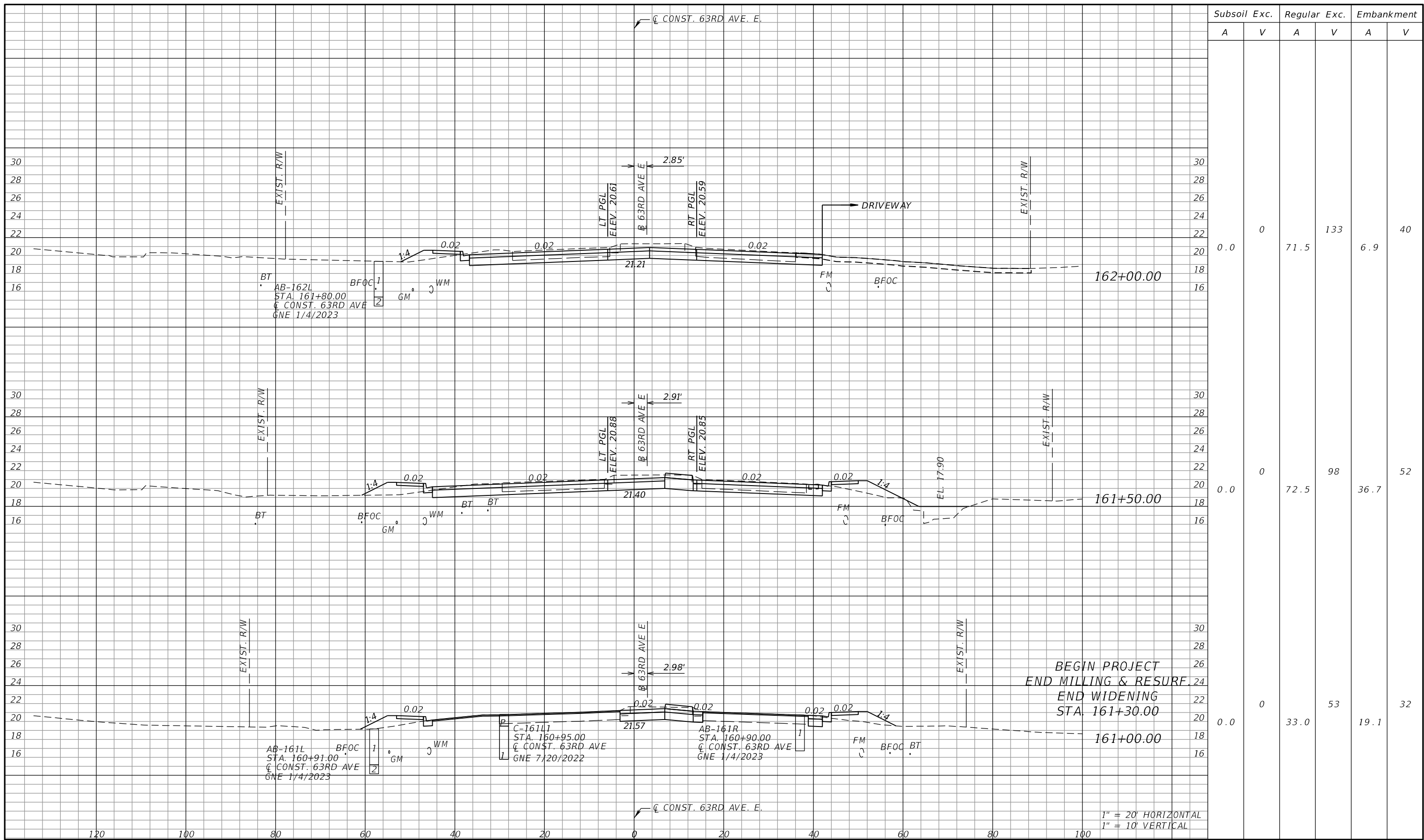
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
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CROSS SECTIONS (1)

SHEET NO.

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	71.5	133	6.9	40
0.0	0	72.5	98	36.7	52
0.0	0	33.0	53	19.1	32

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	DP	PROJECT NO.
			CHECKED BY	JPH	6107860

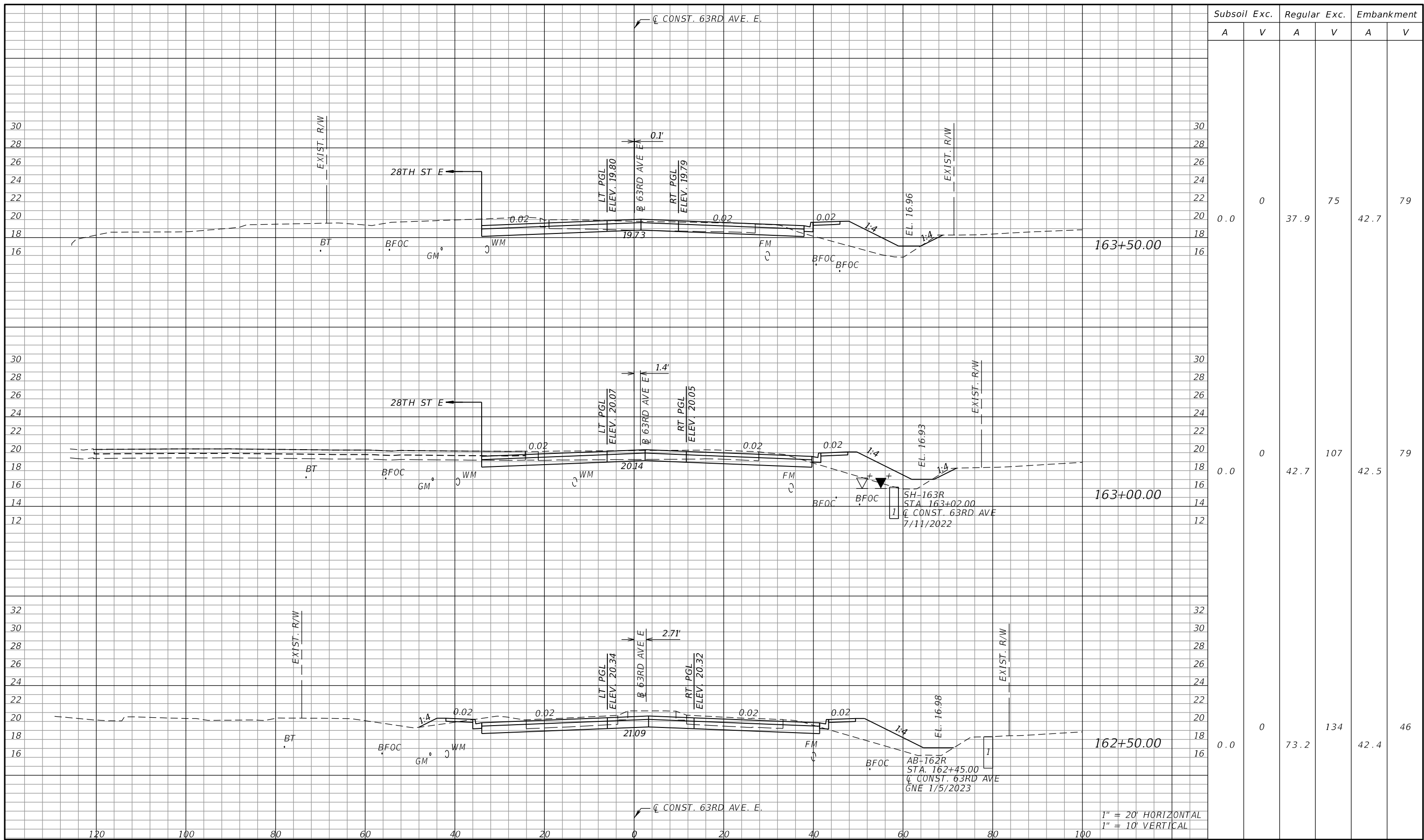
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

CROSS SECTIONS (2)

SHEET NO.

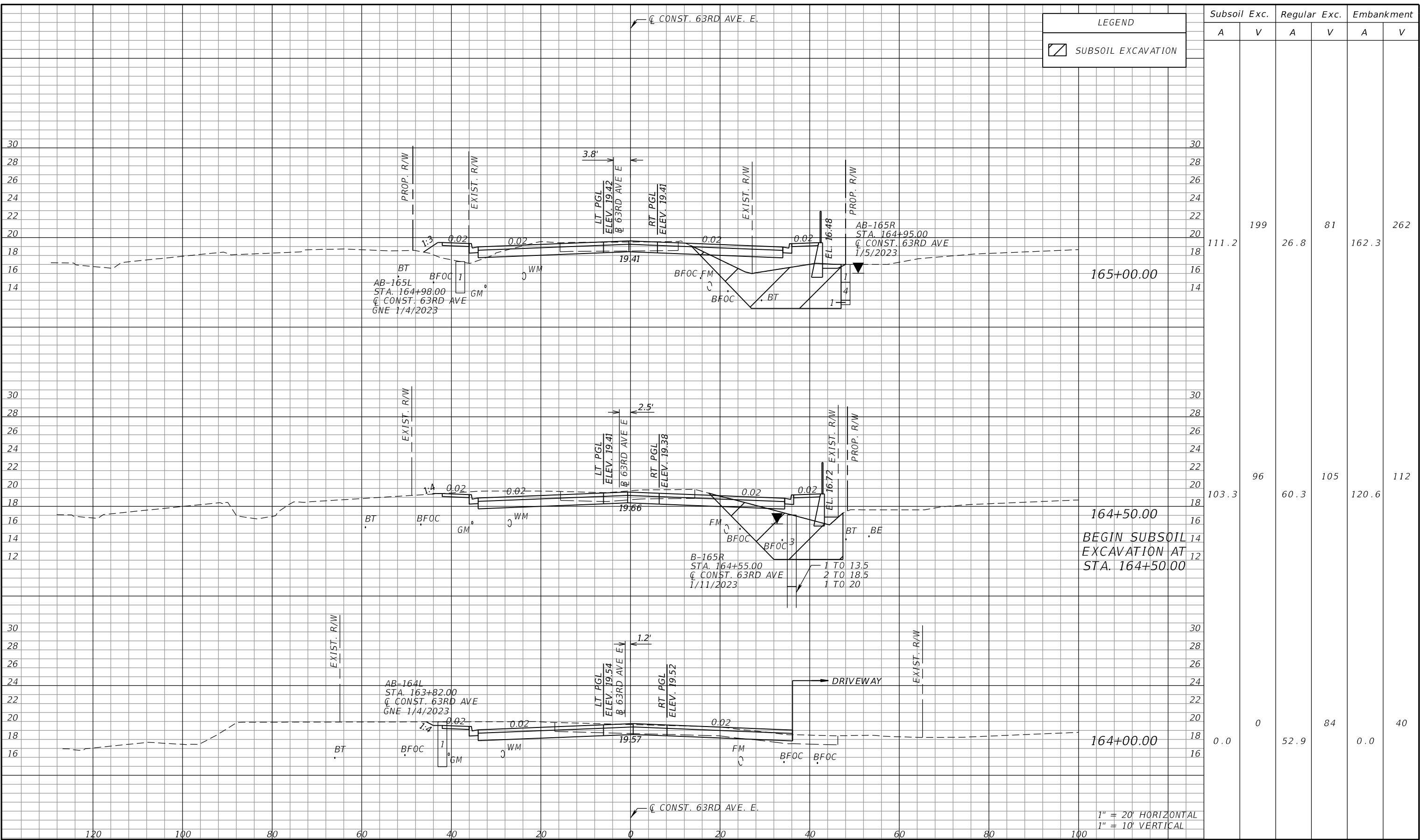
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	37.9	75	42.7	79
0.0	0	42.7	107	42.5	79
0.0	0	73.2	134	42.4	46

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	ADAM S. PEREZ, P.E. LICENSE NUMBER 56066 PATEL, GREENE & ASSOCIATES, LLC 12570 TELECOM DRIVE TEMPLE TERRACE, FL 33637	PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	CROSS SECTIONS (3)	SHEET NO.
			DESIGNED BY	ASP	03/2023				
			DRAWN BY	DP	PROJECT NO.				
			CHECKED BY	JPH	6107860				

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



NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				DP	PROJECT NO.
				JPH	6107860

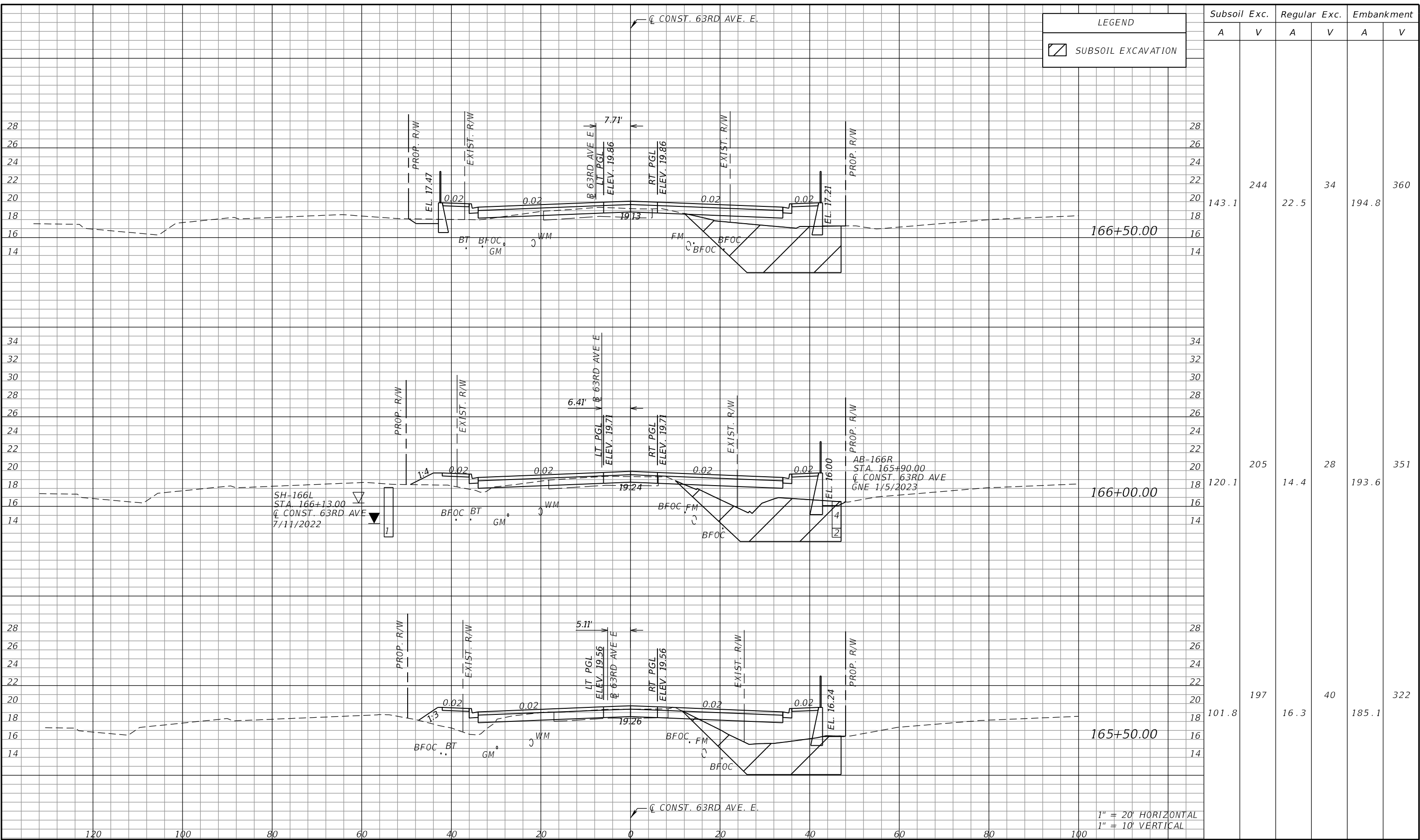
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
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CROSS SECTIONS (4)

SHEET NO.

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LEGEND	
	SUBSOIL EXCAVATION

	Subsoil Exc.		Regular Exc.		Embankment	
	A	V	A	V	A	V
166+50.00	143.1	244	22.5	34	194.8	360
166+00.00	120.1	205	14.4	28	193.6	351
165+50.00	101.8	197	16.3	40	185.1	322

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
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				JPH	6107860

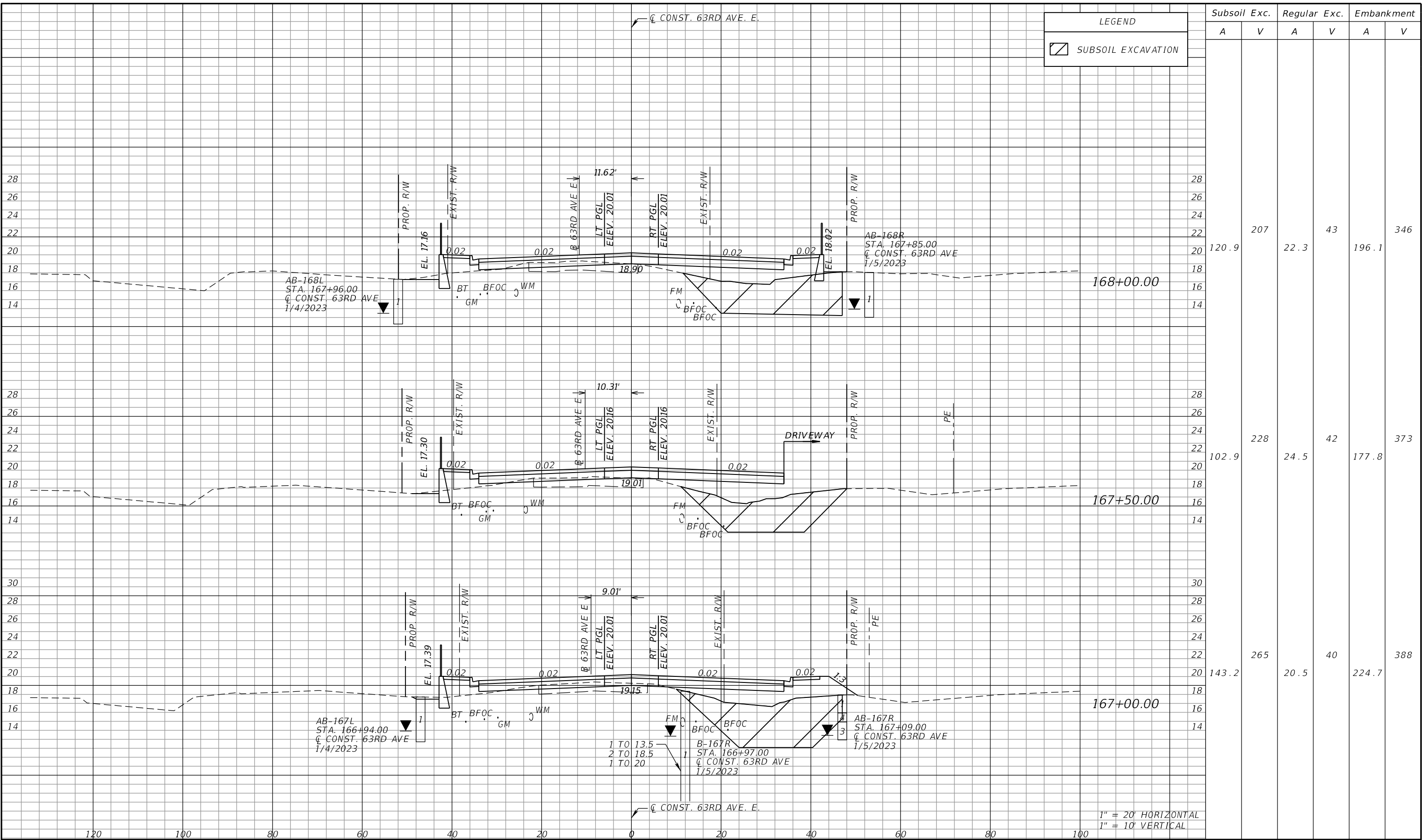
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
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CROSS SECTIONS (5)

SHEET NO.

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LEGEND	
	SUBSOIL EXCAVATION

Subsoil Exc.	Regular Exc.	Embankment					
			A	V	A	V	A
120.9	207	43	196.1	346			
102.9	228	42	177.8	373			
143.2	265	40	224.7	388			

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	DP	PROJECT NO.
			CHECKED BY	JPH	6107860

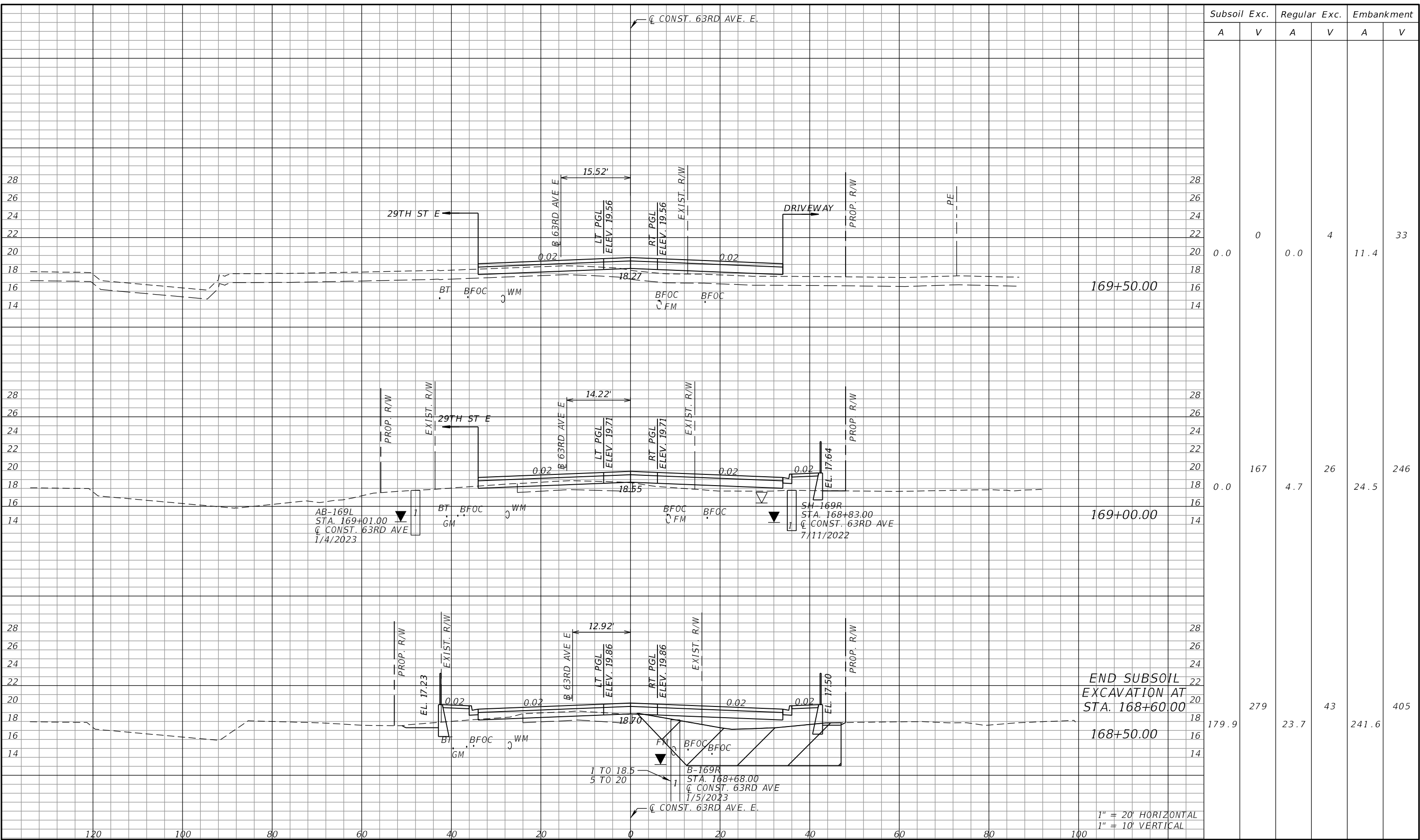
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

CROSS SECTIONS (6)

SHEET NO.

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	0.0	4	11.4	33
0.0	167	4.7	26	24.5	246
179.9	279	23.7	43	241.6	405

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	DP	PROJECT NO.
			CHECKED BY	JPH	6107860

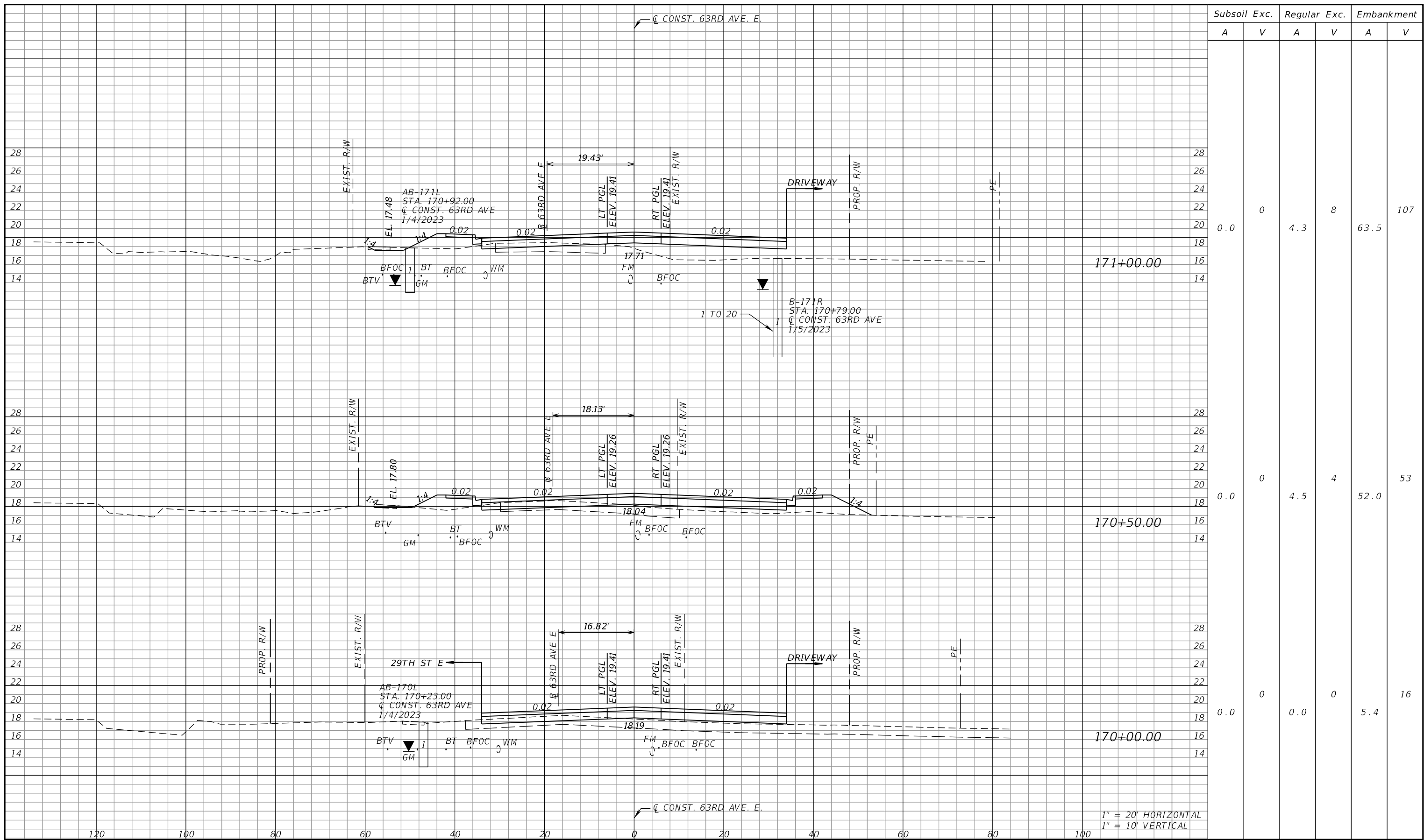
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

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CROSS SECTIONS (7)

SHEET NO.

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	4.3	8	63.5	107
0.0	0	4.5	4	52.0	53
0.0	0	0.0	0	5.4	16

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				DP	PROJECT NO.
				JPH	6107860

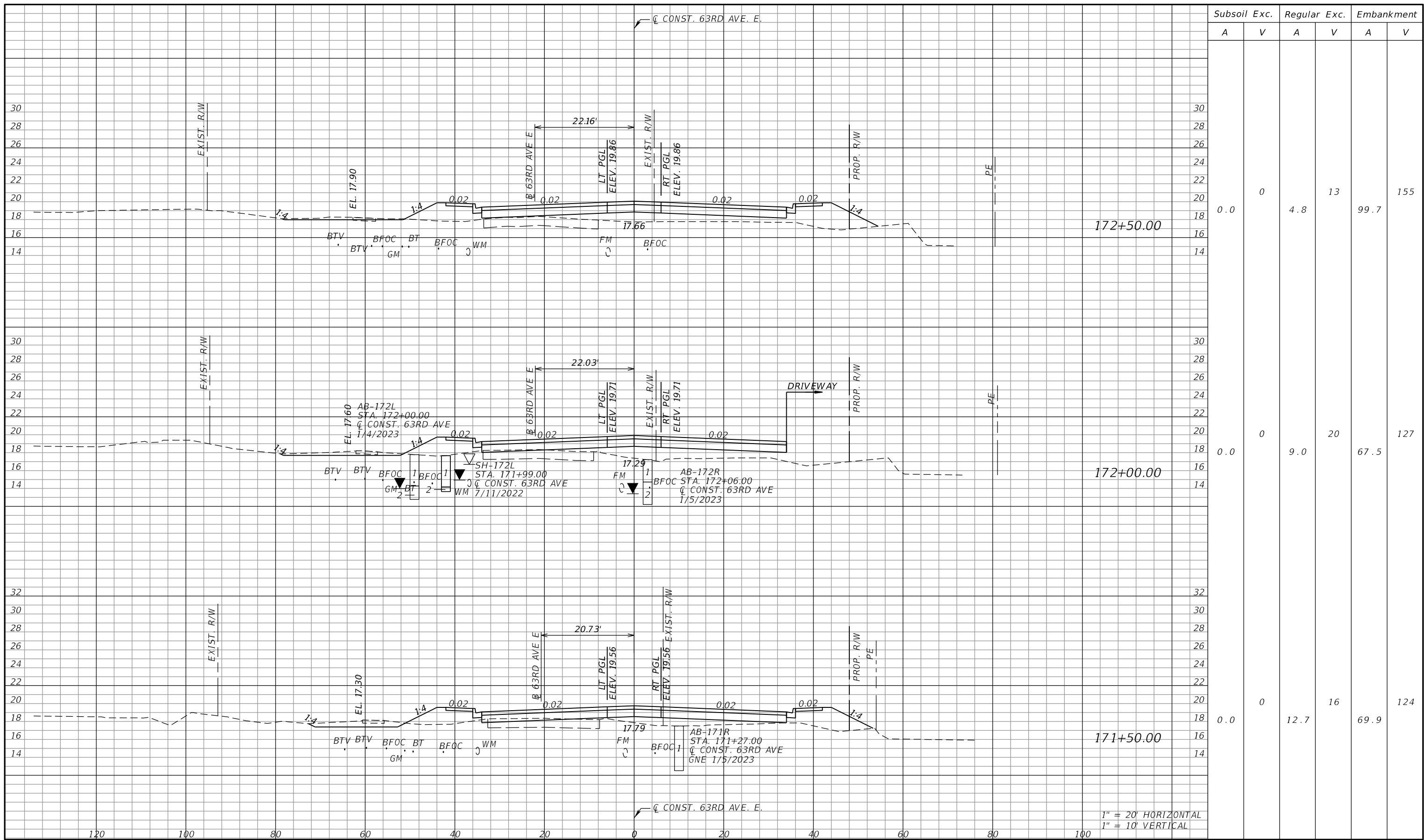
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CROSS SECTIONS (8)

SHEET NO.

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	4.8	13	99.7	155
0.0	0	9.0	20	67.5	127
0.0	0	12.7	16	69.9	124

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
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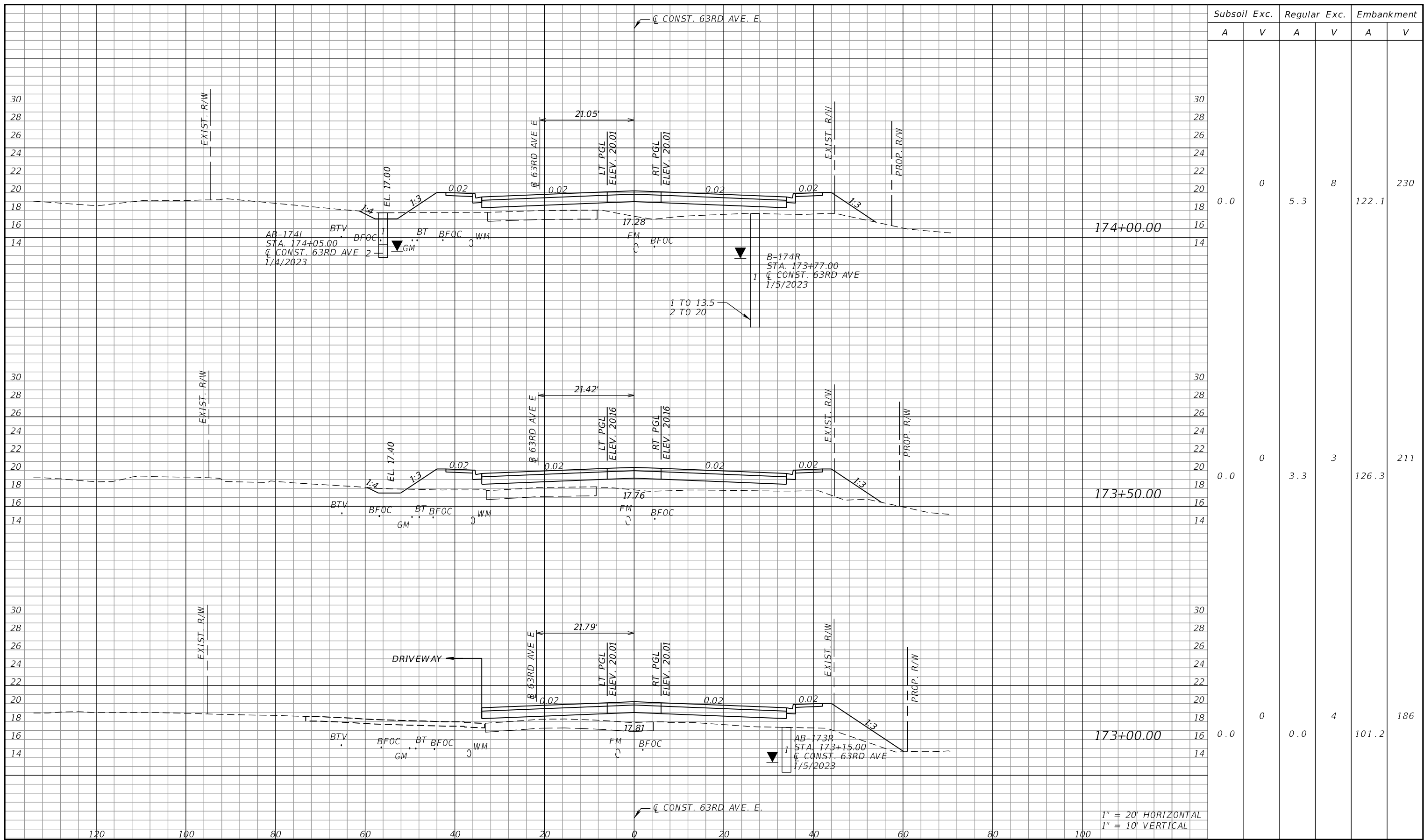
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CROSS SECTIONS (9)

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	5.3	8	122.1	230
0.0	0	3.3	3	126.3	211
0.0	0	0.0	4	101.2	186

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
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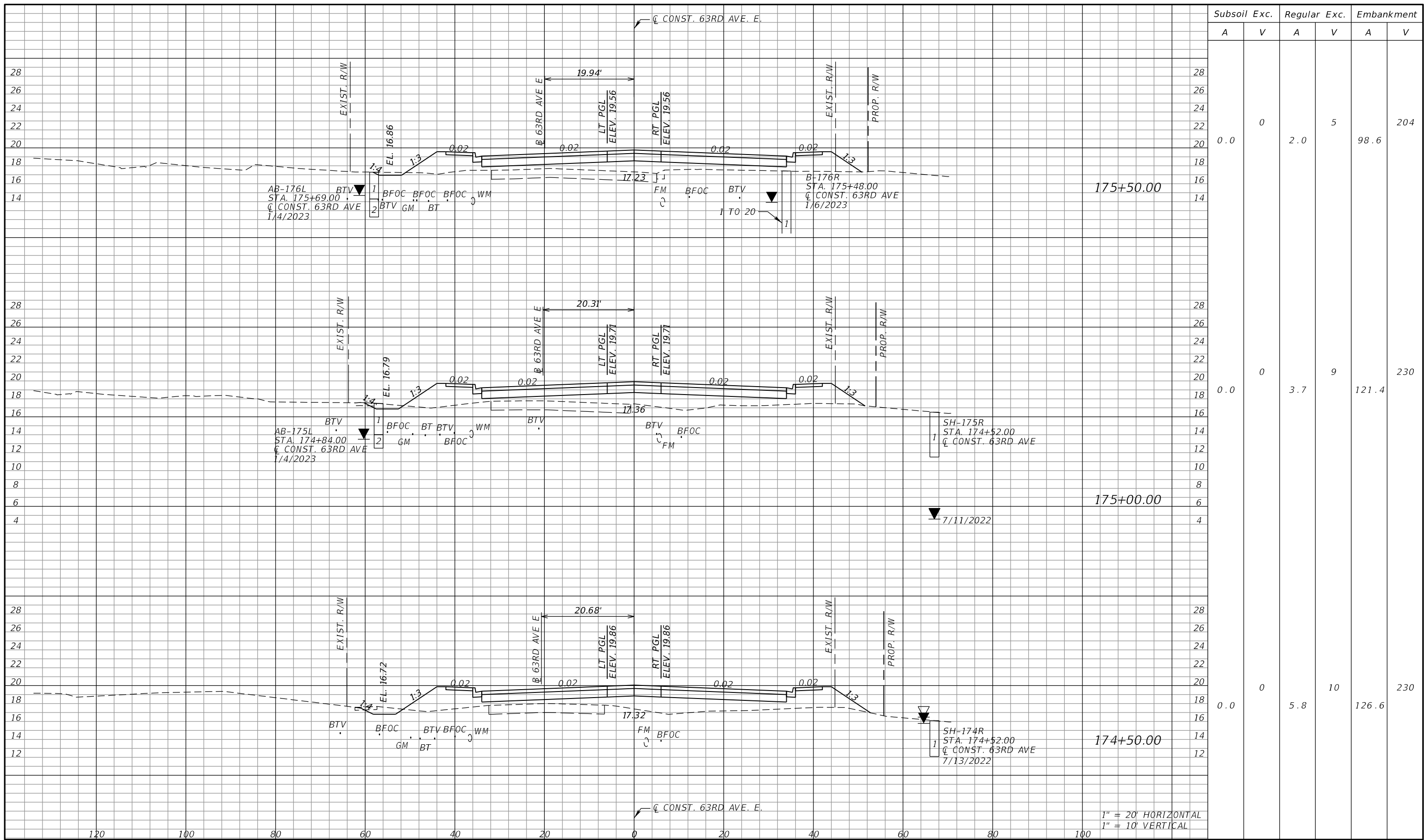
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CROSS SECTIONS (10)

SHEET NO.

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	2.0	5	98.6	204
0.0	0	3.7	9	121.4	230
0.0	0	5.8	10	126.6	230

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				DP	PROJECT NO.
				JPH	6107860

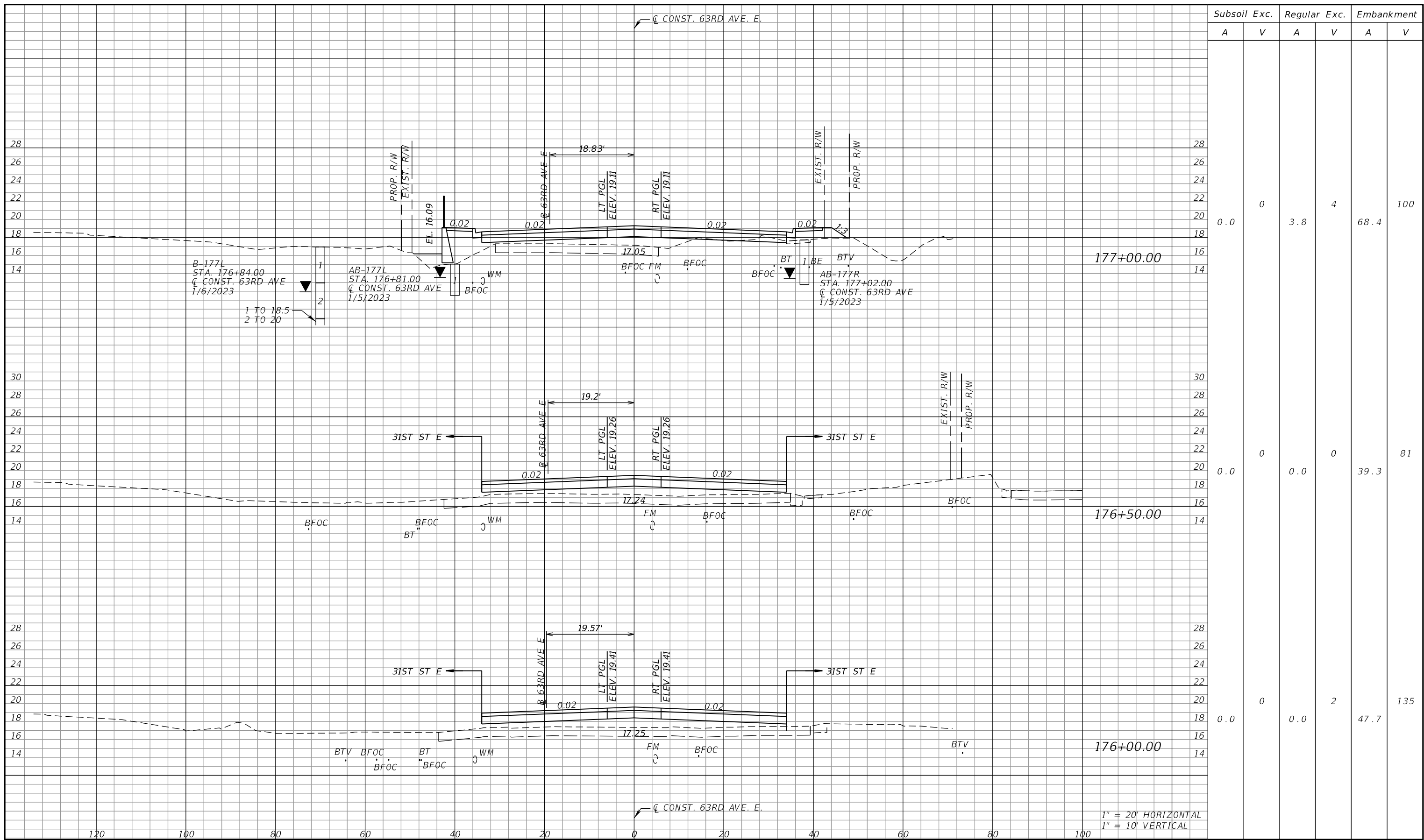
PGA
 ADAM S. PEREZ, P.E.
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CROSS SECTIONS (11)

SHEET NO.

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	3.8	4	68.4	100
0.0	0	0.0	0	39.3	81
0.0	0	0.0	2	47.7	135

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
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				JPH	6107860

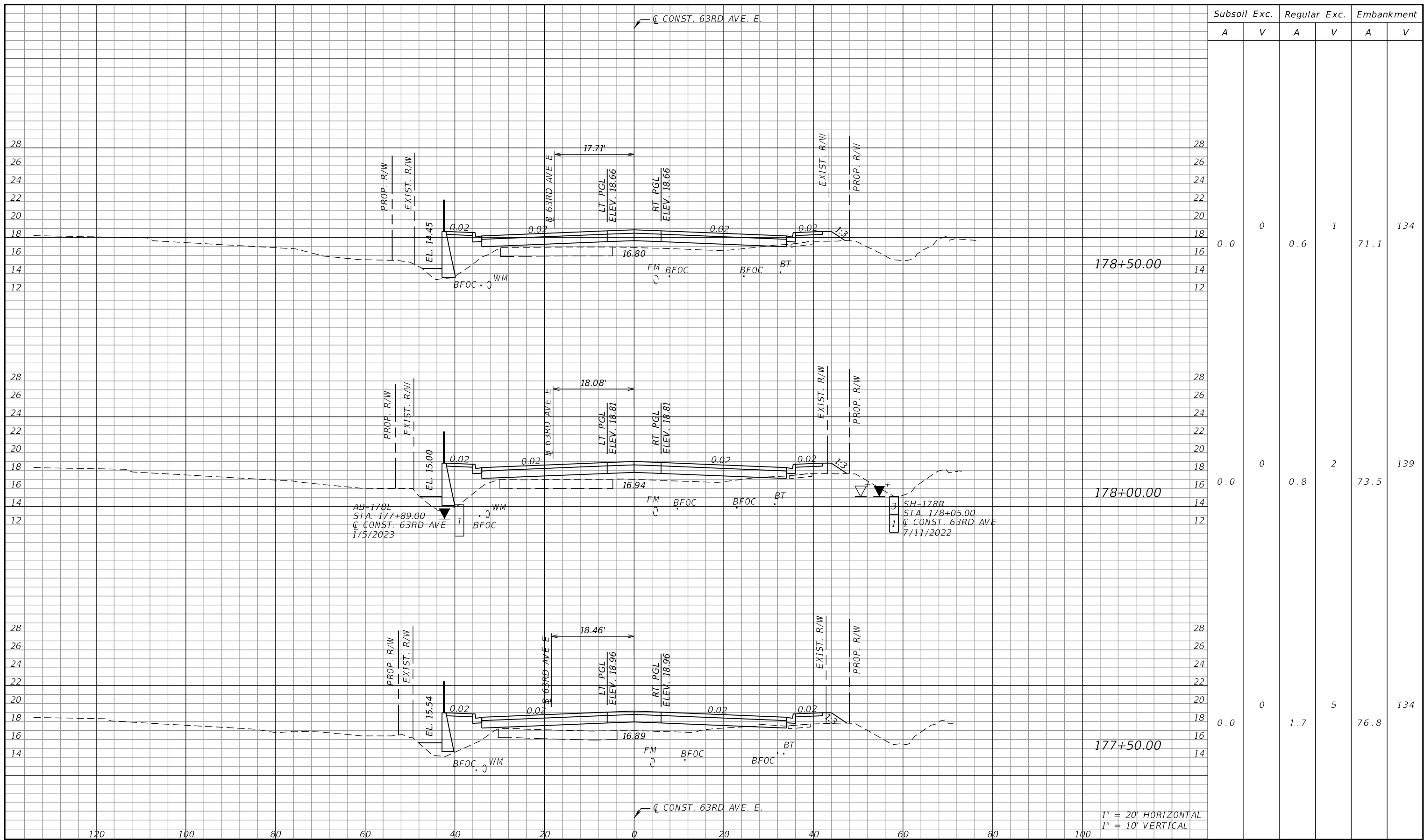
PGA
 ADAM S. PEREZ, P.E.
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 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

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CROSS SECTIONS (12)

SHEET NO.

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	0.6	1	71.1	134
0.0	0	0.8	2	73.5	139
0.0	0	1.7	5	76.8	134

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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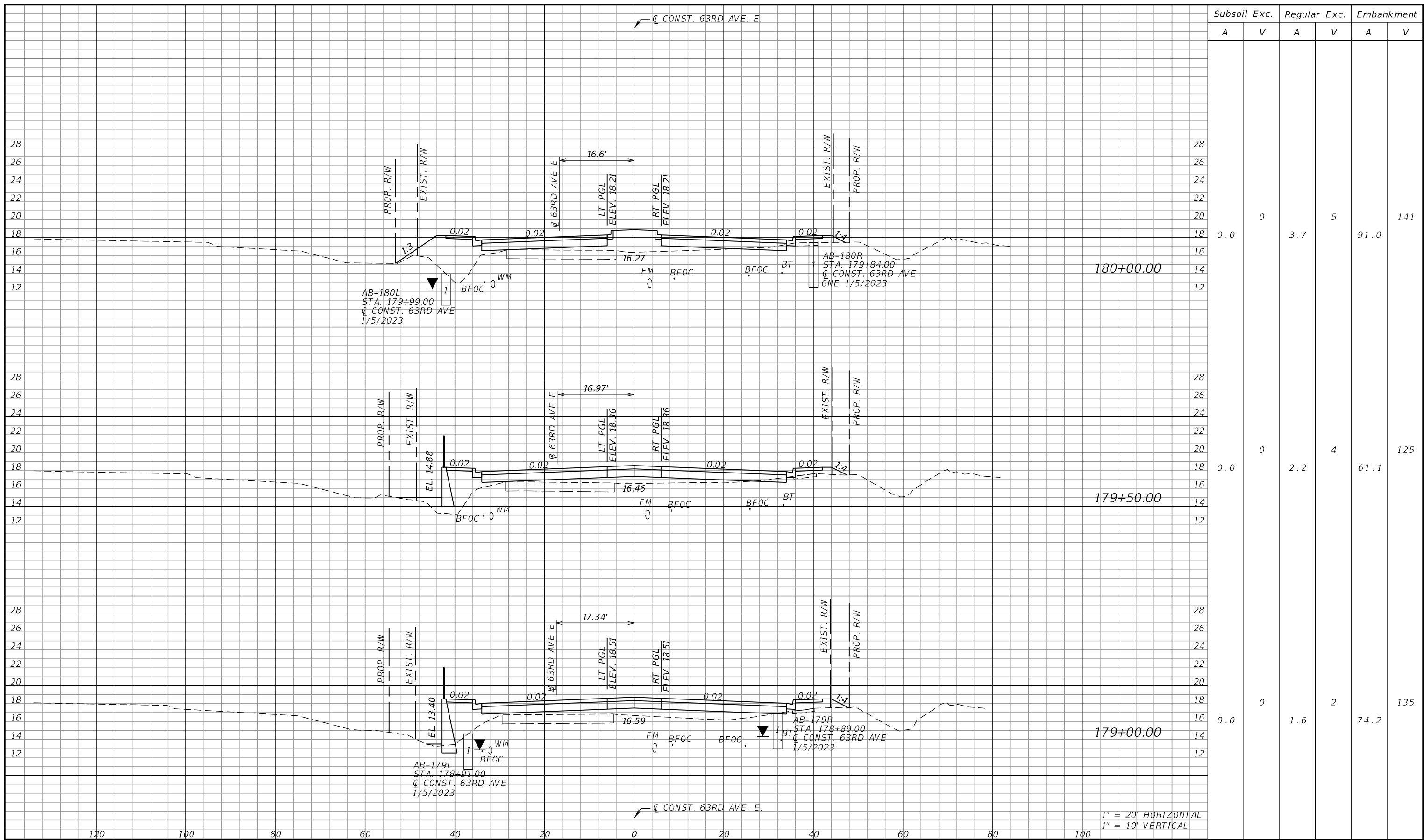
PGA
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 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
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 TEMPLE TERRACE, FL 33637

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CROSS SECTIONS (13)

SHEET NO.

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	3.7	5	91.0	141
0.0	0	2.2	4	61.1	125
0.0	0	1.6	2	74.2	135

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				DP	PROJECT NO.
				JPH	6107860

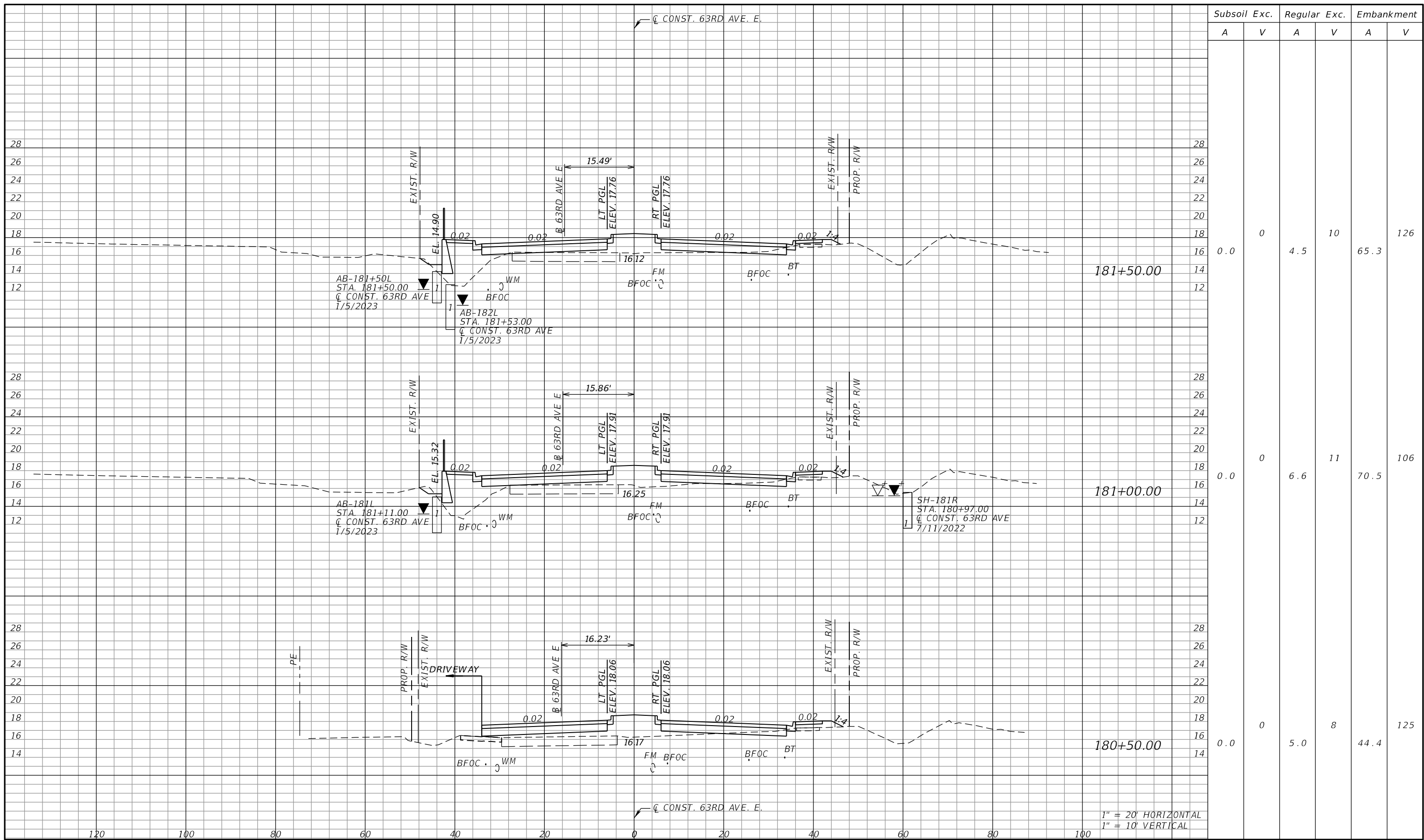
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

CROSS SECTIONS (14)

SHEET NO.

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NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				DP	PROJECT NO.
				JPH	6107860

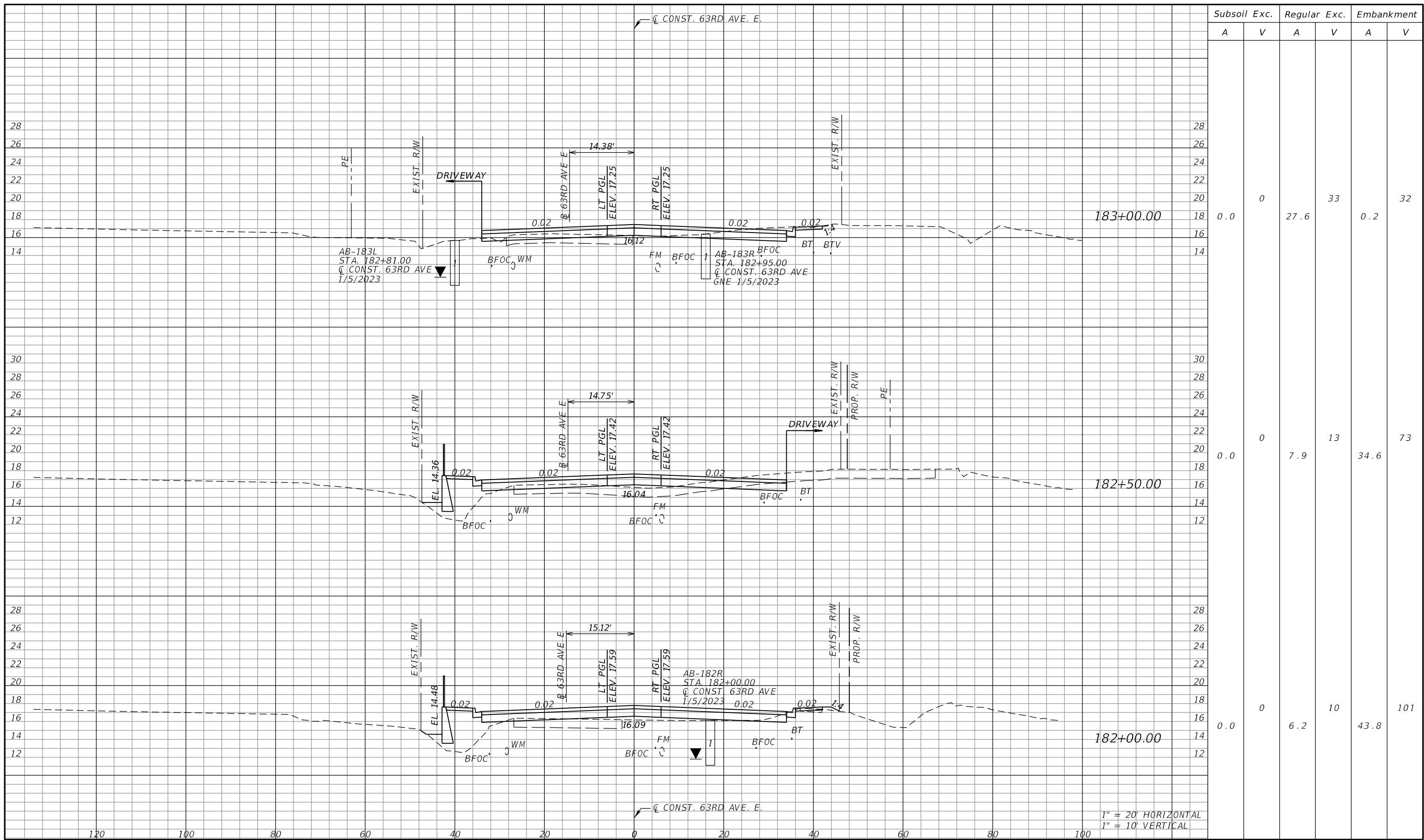
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
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CROSS SECTIONS (15)

SHEET NO.

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	27.6	33	0.2	32
0.0	0	7.9	13	34.6	73
0.0	0	6.2	10	43.8	101

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				DP	PROJECT NO.
				JPH	6107860

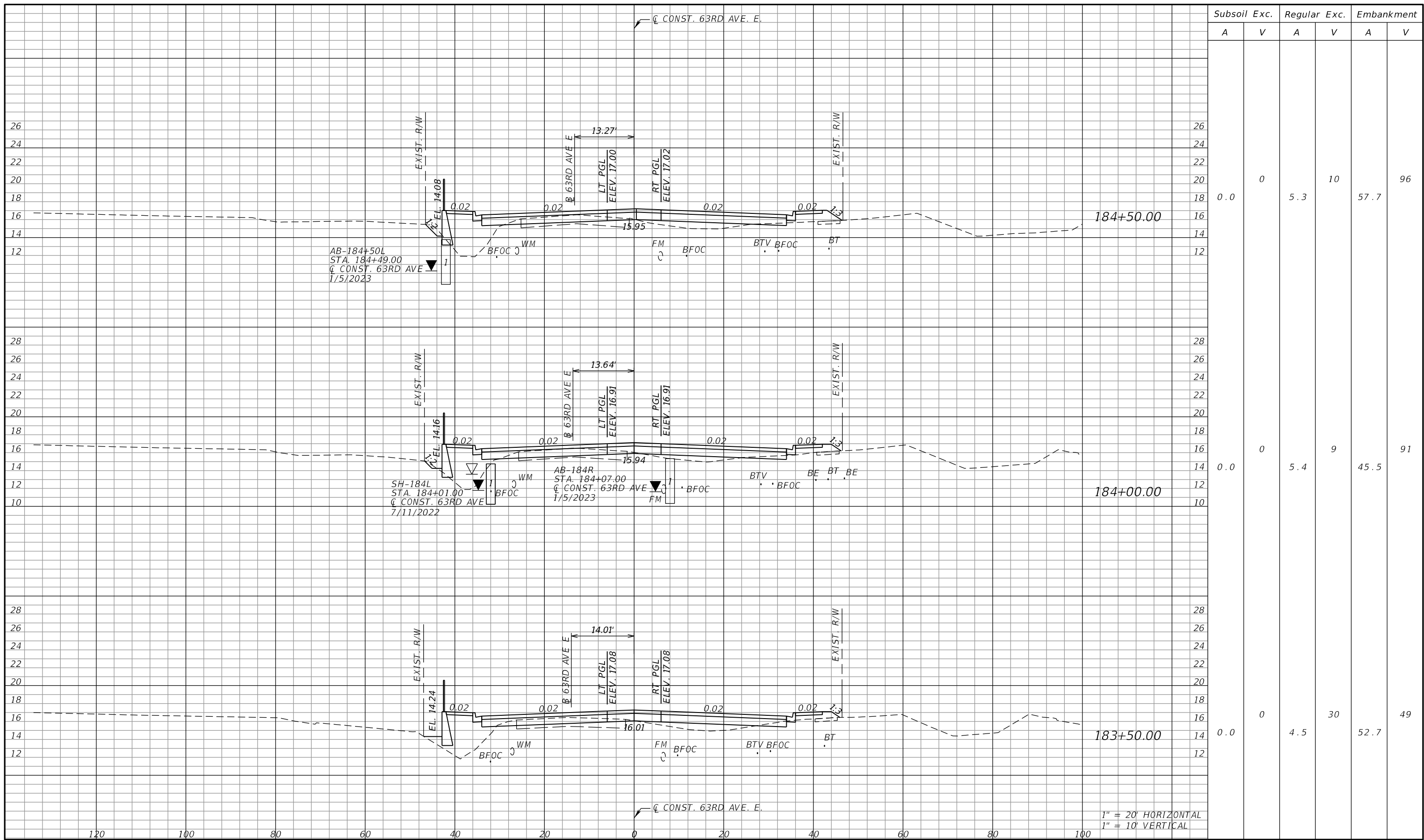
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
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 PUBLIC WORKS DEPARTMENT
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 1022 26th Avenue East
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CROSS SECTIONS (16)



SHEET NO.

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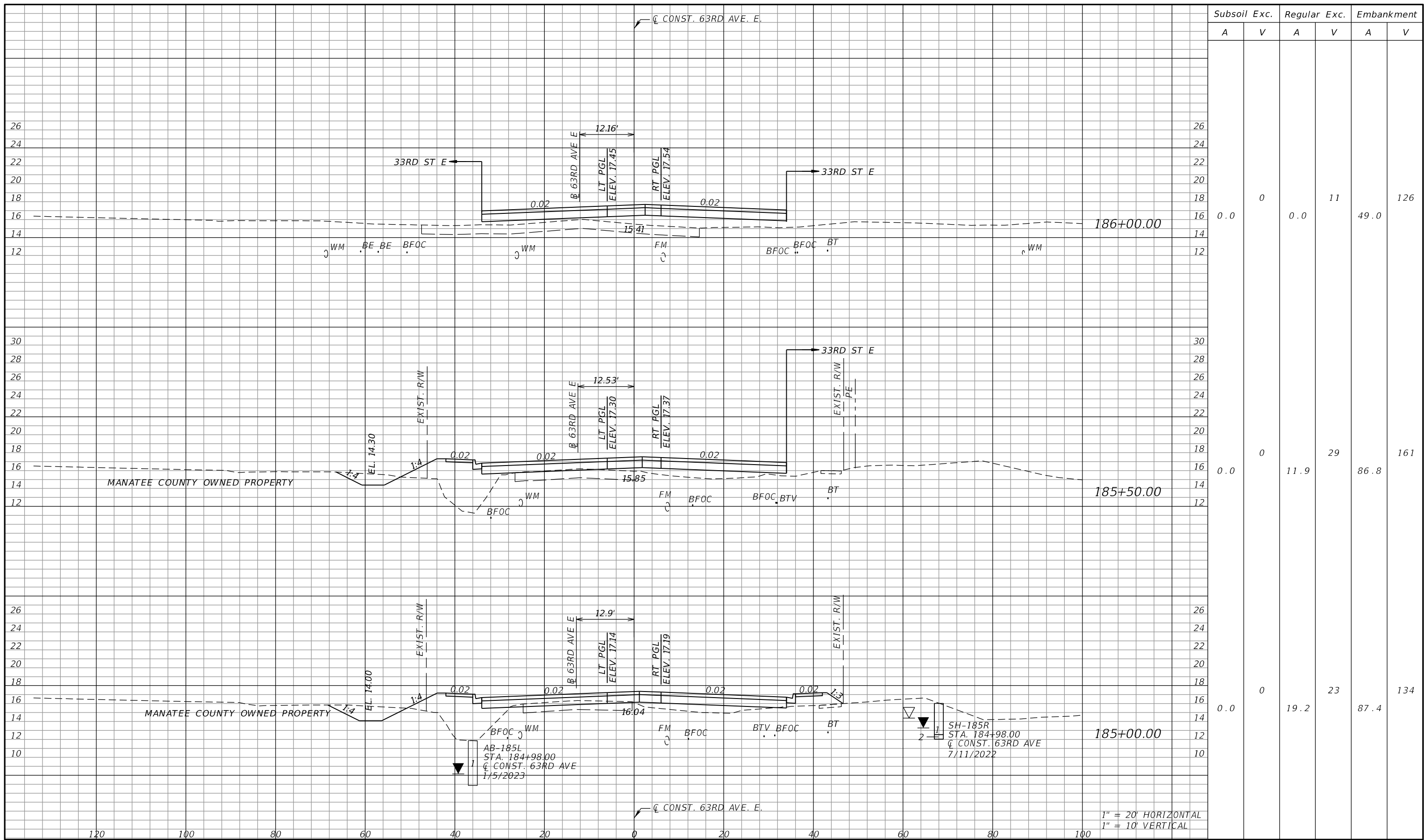


Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	5.3	10	57.7	96
0.0	0	5.4	9	45.5	91
0.0	0	4.5	30	52.7	49

1" = 20' HORIZONTAL
 1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	 ADAM S. PEREZ, P.E. LICENSE NUMBER 56066 PATEL, GREENE & ASSOCIATES, LLC 12570 TELECOM DRIVE TEMPLE TERRACE, FL 33637	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	CROSS SECTIONS (17)	SHEET NO.
			DESIGNED BY	ASP	03/2023				
			DRAWN BY	DP	PROJECT NO.				
			CHECKED BY	JPH	6107860				

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	0.0	11	49.0	126
0.0	0	11.9	29	86.8	161
0.0	0	19.2	23	87.4	134

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				DP	PROJECT NO.
				JPH	6107860

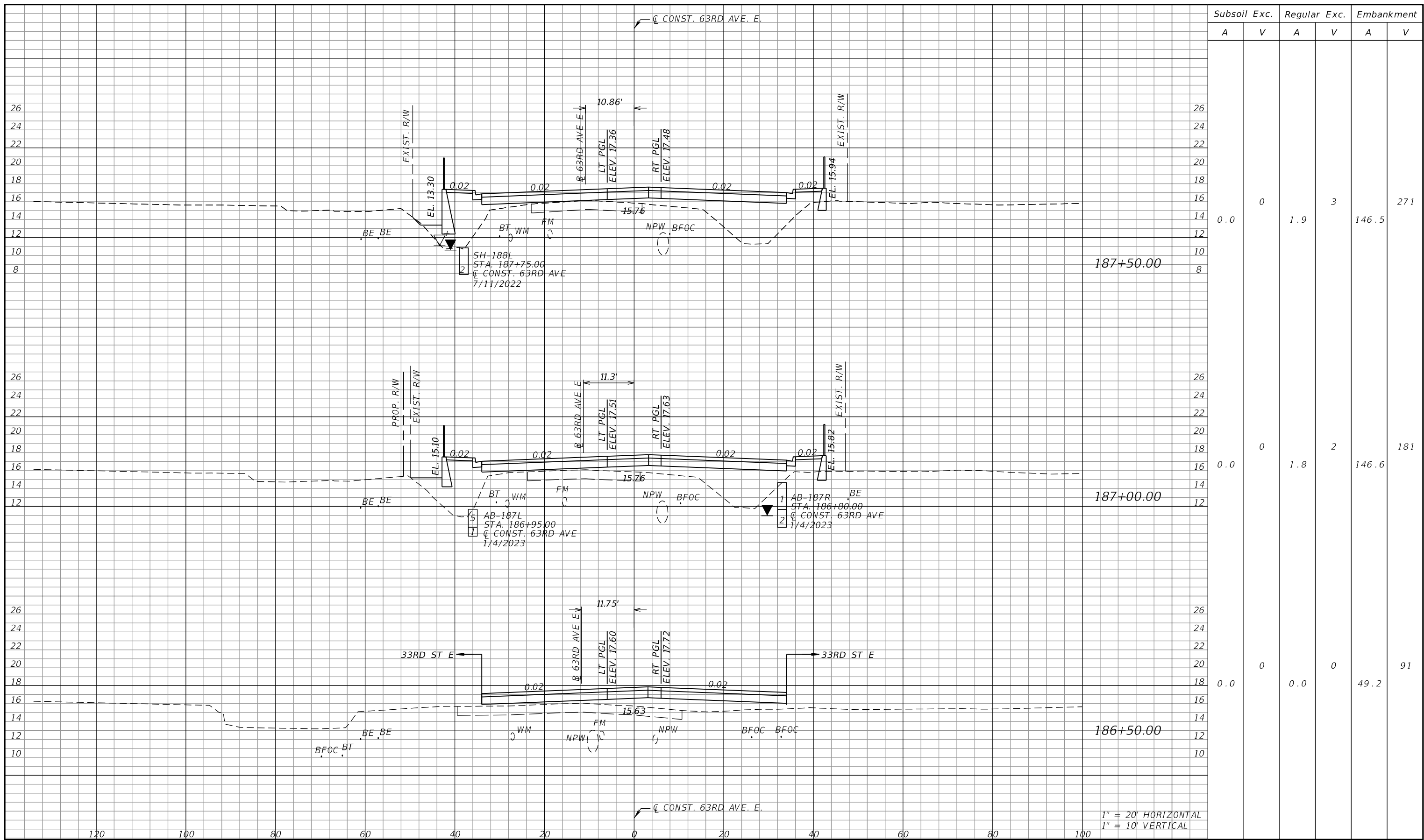
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

CROSS SECTIONS (18)

SHEET NO.

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	1.9	3	146.5	271
0.0	0	1.8	2	146.6	181
0.0	0	0.0	0	49.2	91

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				DP	PROJECT NO.
				JPH	6107860

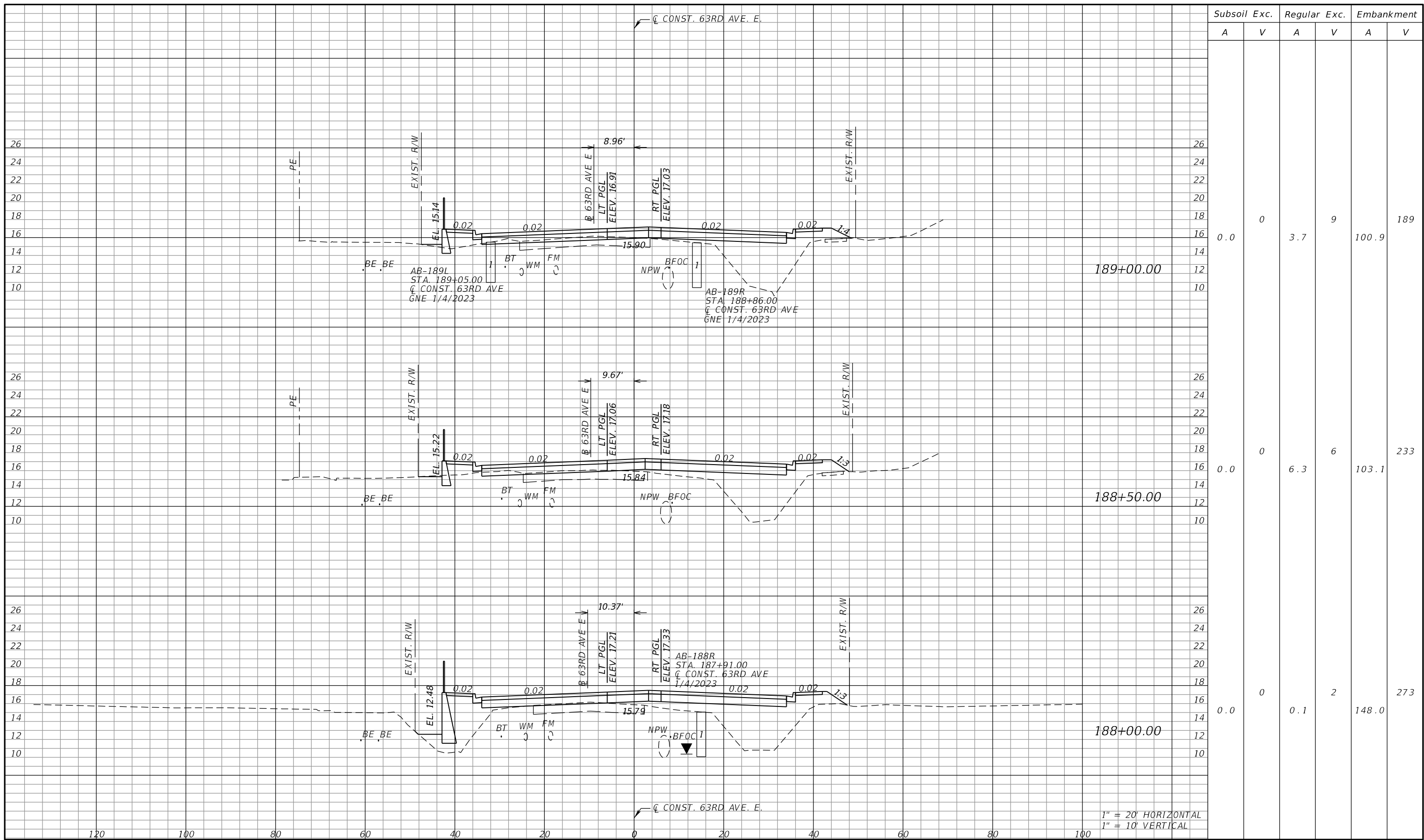
PGA ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

CROSS SECTIONS (19)



SHEET NO.

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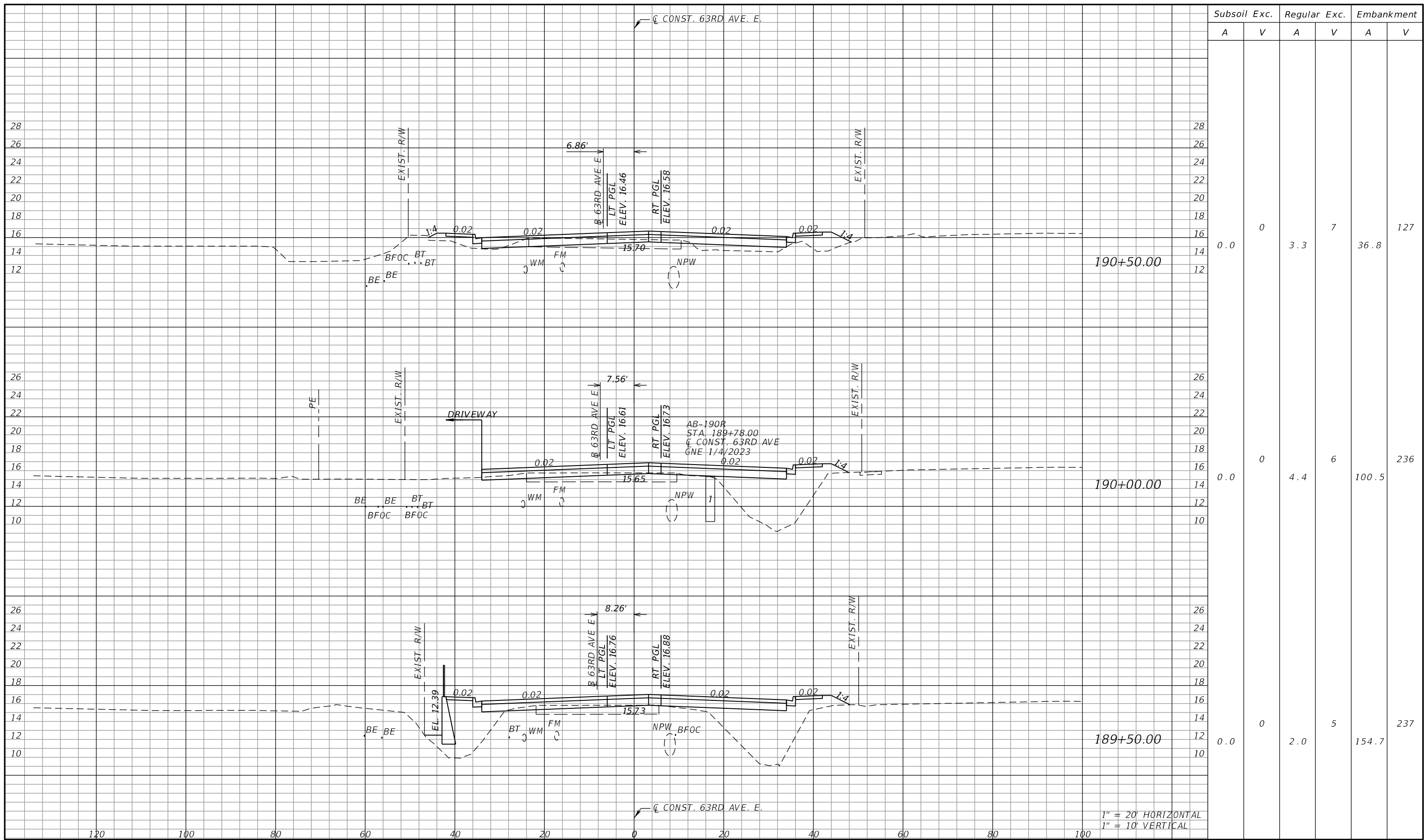


Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	3.7	9	100.9	189
0.0	0	6.3	6	103.1	233
0.0	0	0.1	2	148.0	273

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	 ADAM S. PEREZ, P.E. LICENSE NUMBER 56066 PATEL, GREENE & ASSOCIATES, LLC 12570 TELECOM DRIVE TEMPLE TERRACE, FL 33637	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	CROSS SECTIONS (20)	SHEET NO.
			DESIGNED BY	ASP	03/2023				
			DRAWN BY	DP	PROJECT NO.				
			CHECKED BY	JPH	6107860				

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	3.3	7	36.8	127
0.0	0	4.4	6	100.5	236
0.0	0	2.0	5	154.7	237

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				DP	PROJECT NO.
				JPH	6107860

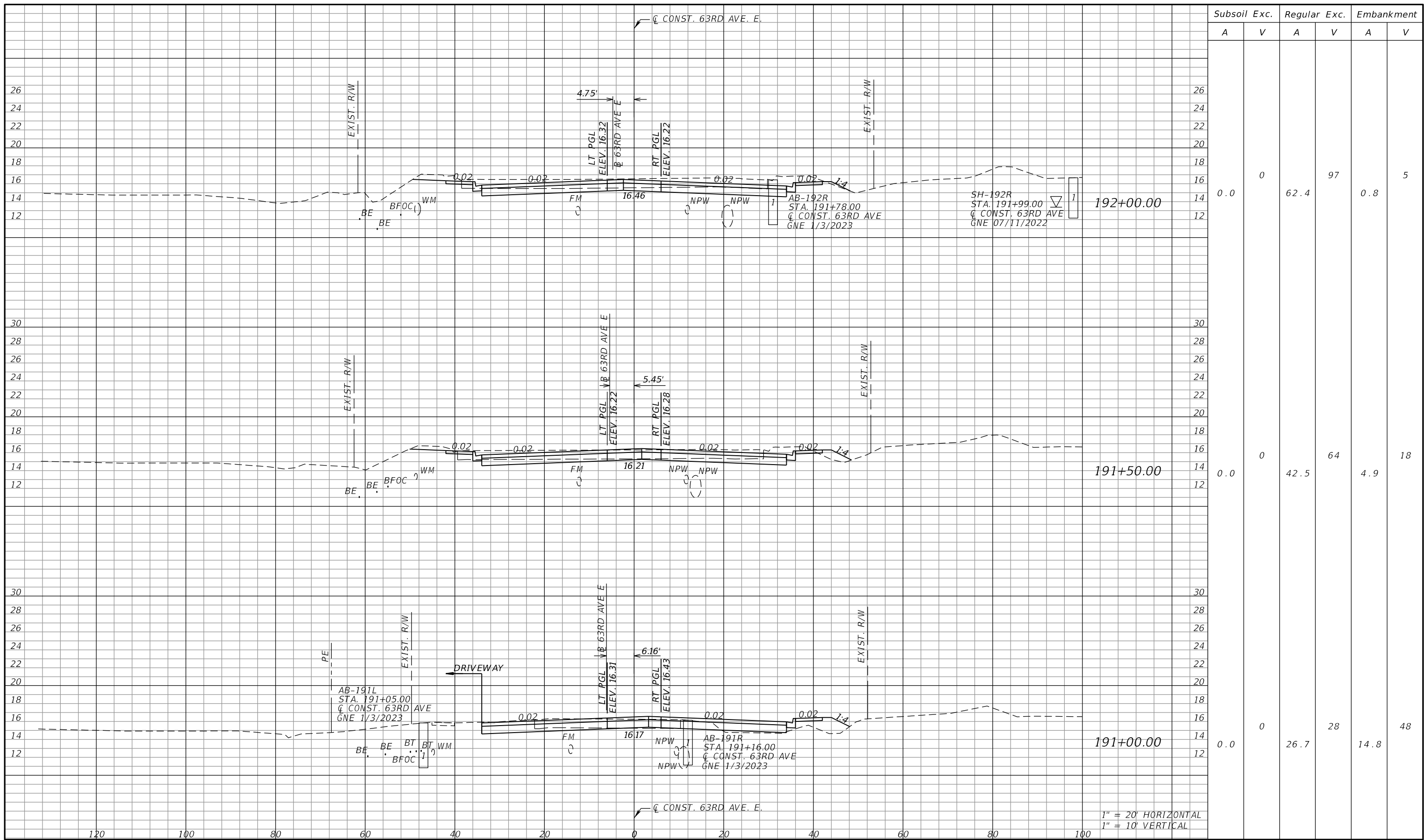
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
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 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

CROSS SECTIONS (21)

SHEET NO.

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	62.4	97	0.8	5
0.0	0	42.5	64	4.9	18
0.0	0	26.7	28	14.8	48

1" = 20' HORIZONTAL
 1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				DP	PROJECT NO.
				JPH	6107860

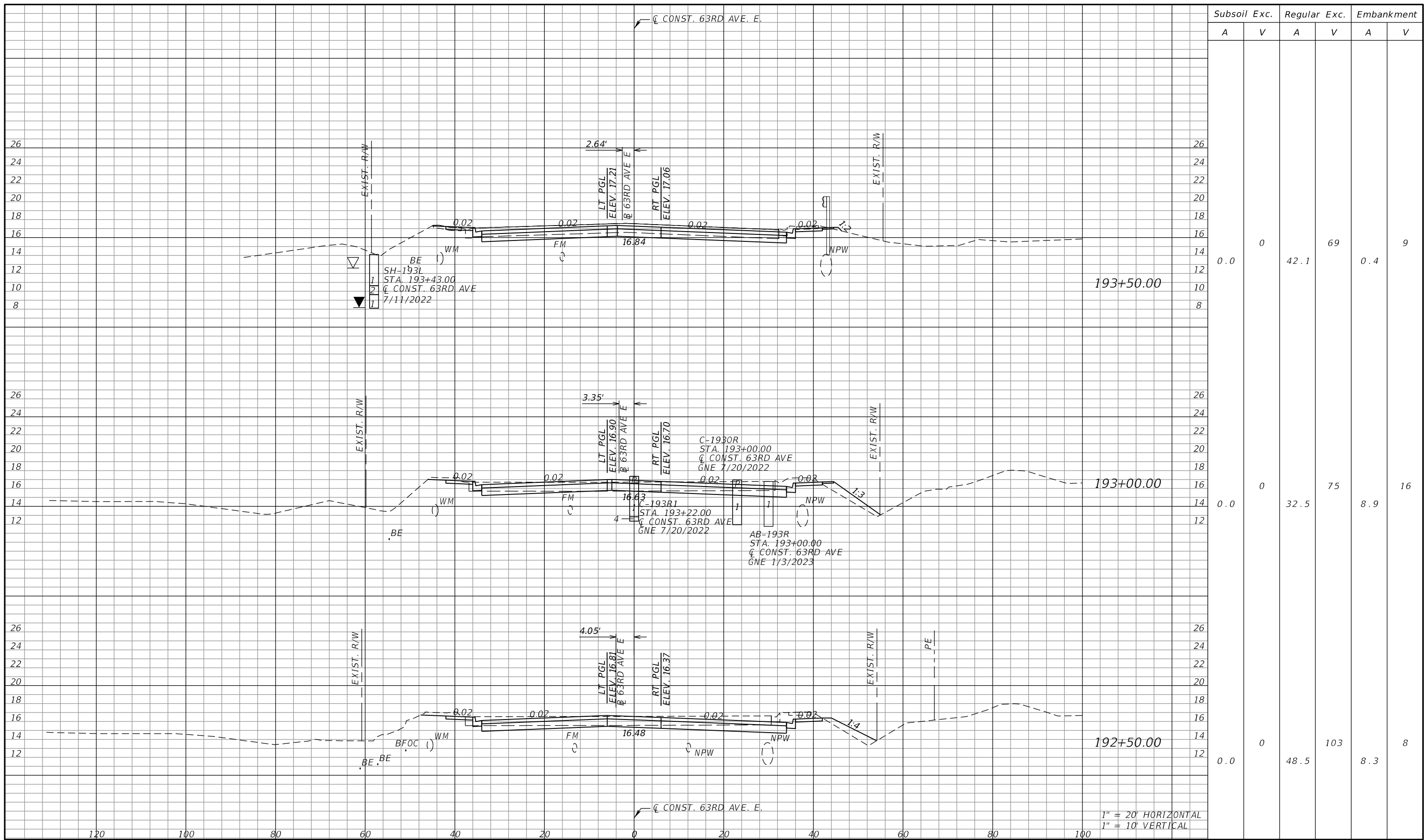
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
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 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

CROSS SECTIONS (22)

SHEET NO.

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	42.1	69	0.4	9
0.0	0	32.5	75	8.9	16
0.0	0	48.5	103	8.3	8

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				DP	PROJECT NO.
				JPH	6107860

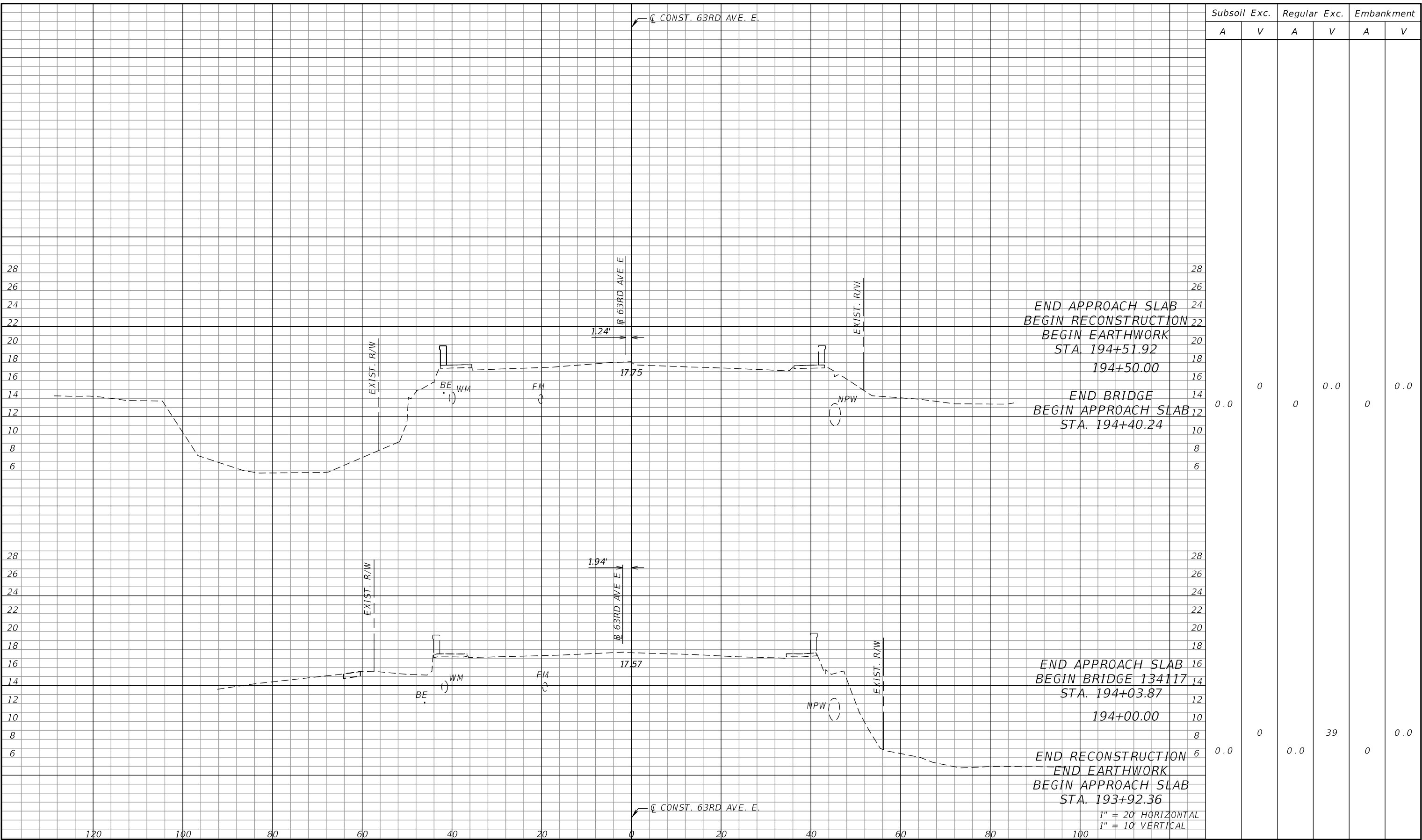
PGA ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

CROSS SECTIONS (23)

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	0	0.0	0	0.0
0.0	0	0.0	39	0	0.0

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	DP	PROJECT NO.
			CHECKED BY	JPH	6107860

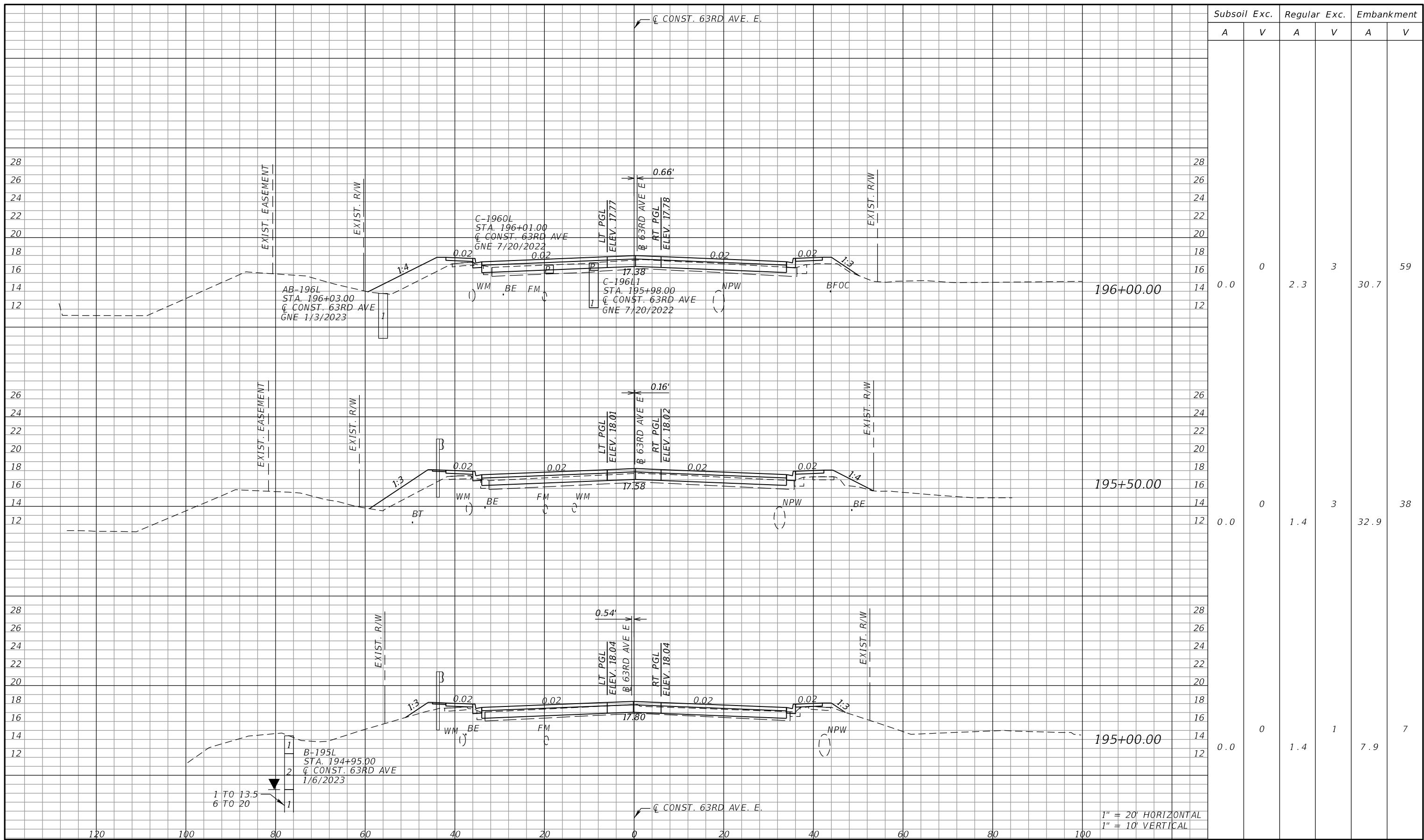
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

CROSS SECTIONS (24)

SHEET NO.

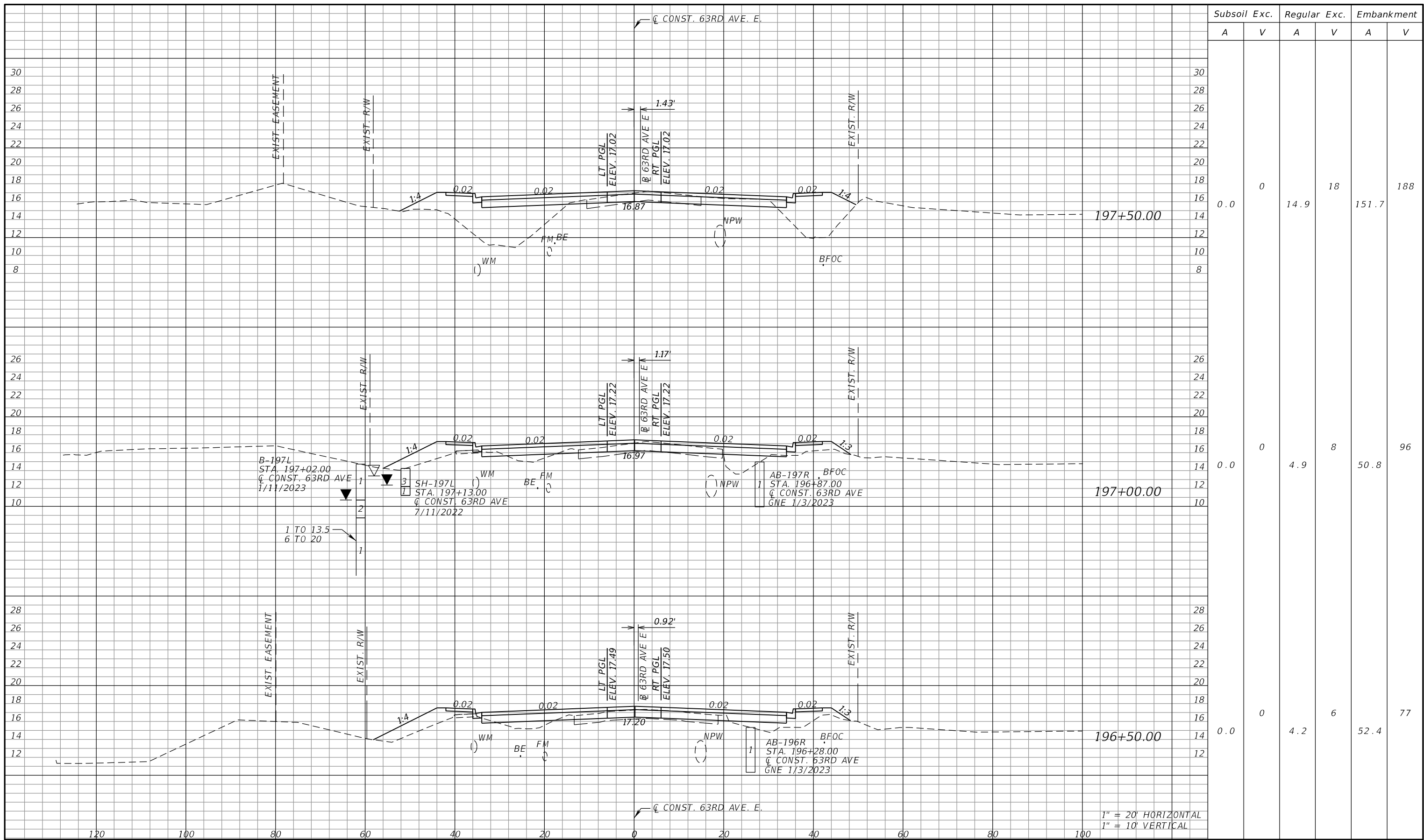
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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	2.3	3	30.7	59
0.0	0	1.4	3	32.9	38
0.0	0	1.4	1	7.9	7

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	<p>ADAM S. PEREZ, P.E. LICENSE NUMBER 56066 PATEL, GREENE & ASSOCIATES, LLC 12570 TELECOM DRIVE TEMPLE TERRACE, FL 33637</p> <p>PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208</p>	SHEET NO.
			DESIGNED BY	ASP	03/2023		
			DRAWN BY	DP	PROJECT NO.		
			CHECKED BY	JPH	6107860		
						CROSS SECTIONS (25)	

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	14.9	18	151.7	188
0.0	0	4.9	8	50.8	96
0.0	0	4.2	6	52.4	77

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				DP	PROJECT NO.
				JPH	6107860

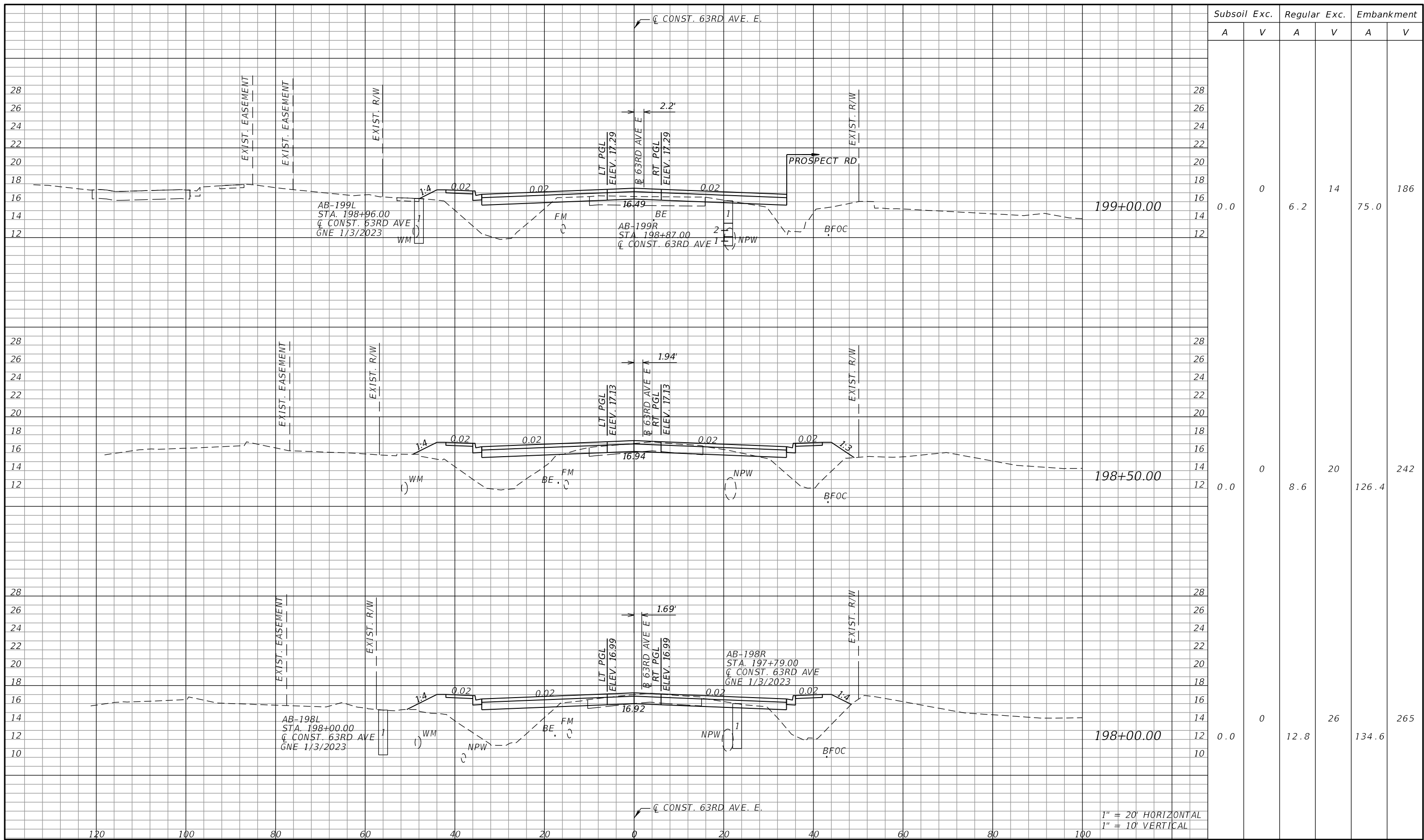
PGA ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

CROSS SECTIONS (26)

SHEET NO.

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	6.2	14	75.0	186
0.0	0	8.6	20	126.4	242
0.0	0	12.8	26	134.6	265

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				DP	PROJECT NO.
				JPH	6107860

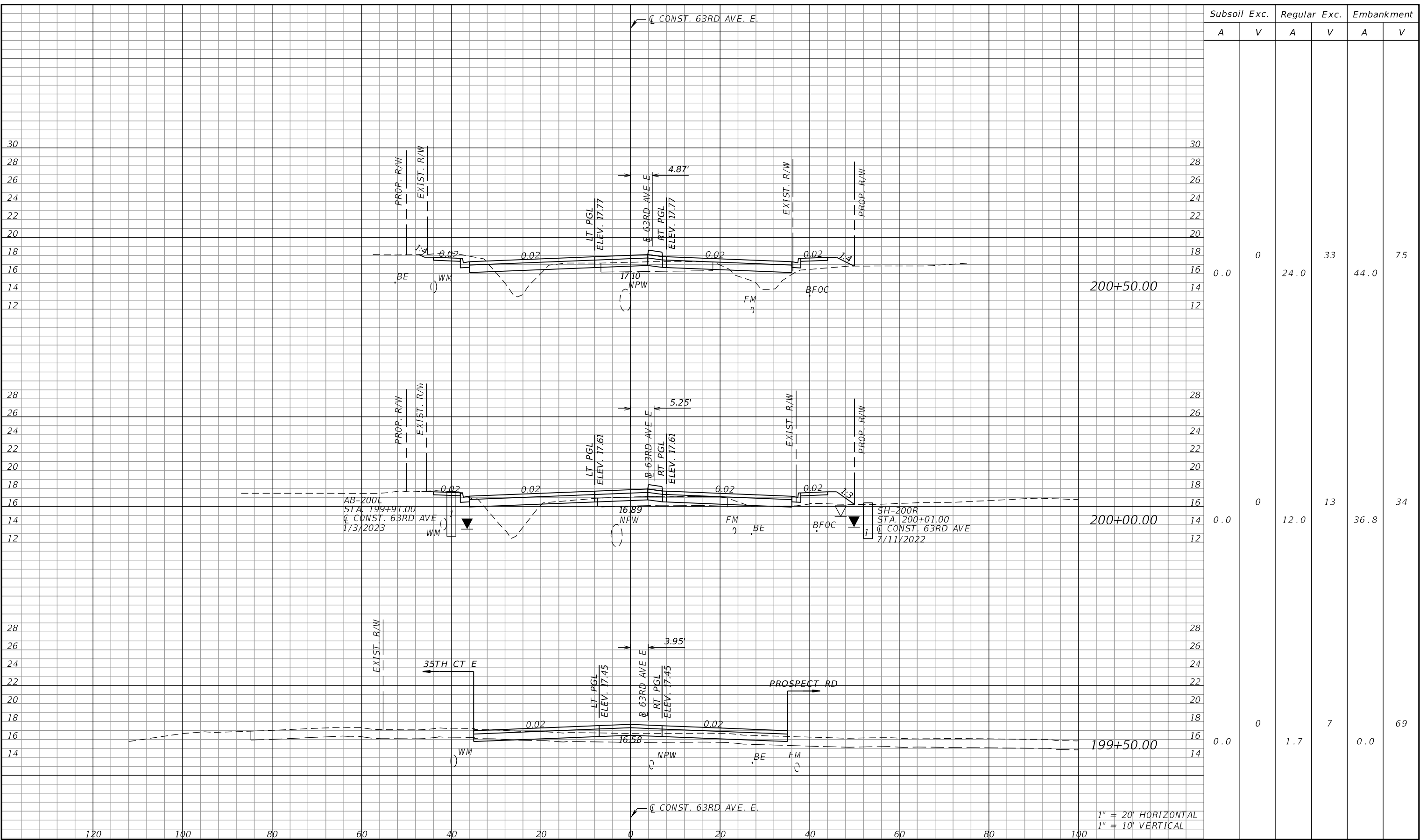
PGA ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
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1022 26th Avenue East
Bradenton, FL 34208

CROSS SECTIONS (27)

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	24.0	33	44.0	75
0.0	0	12.0	13	36.8	34
0.0	0	1.7	7	0.0	69

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				DP	PROJECT NO.
				JPH	6107860

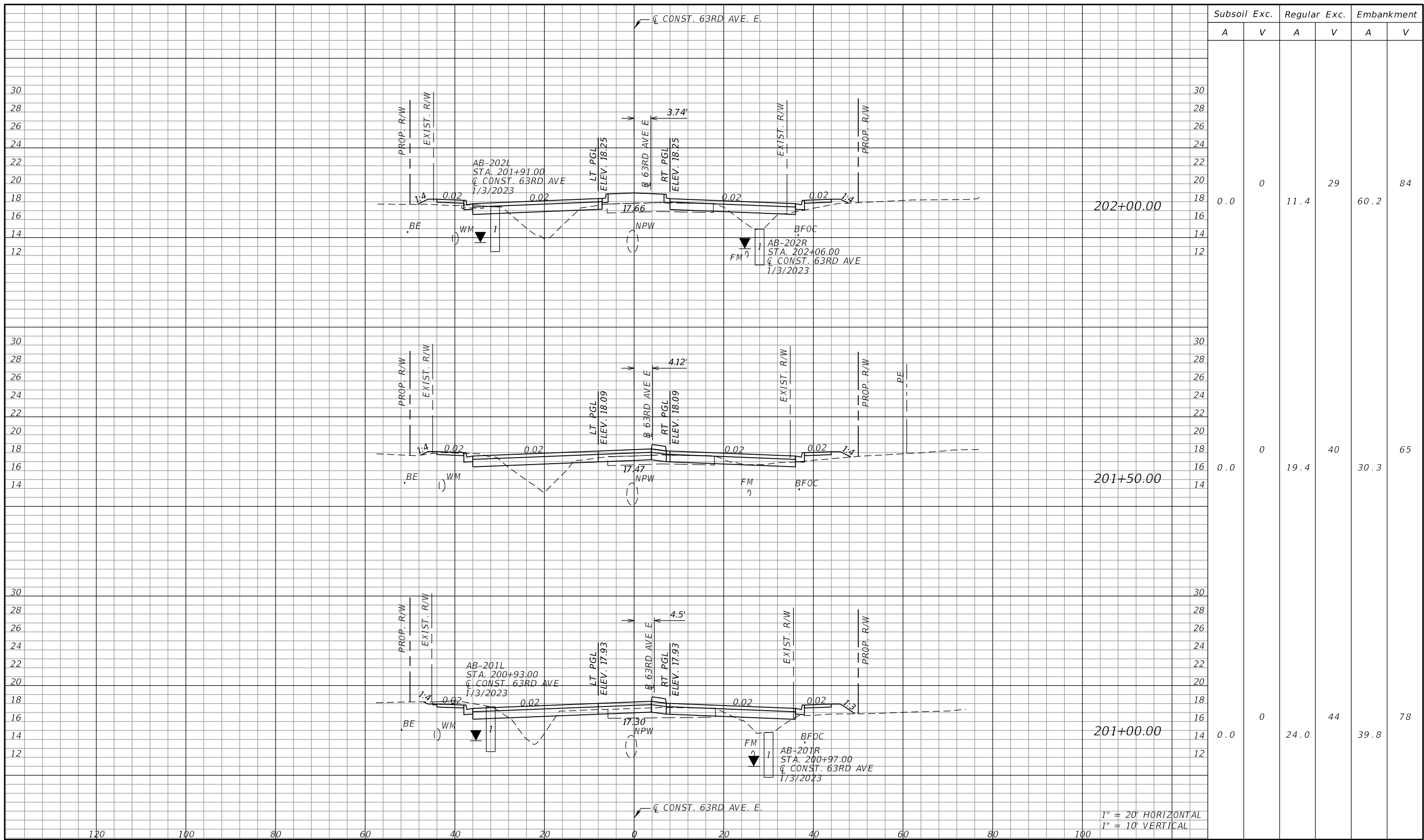
PGA ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
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Manatee County PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
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CROSS SECTIONS (28)

SHEET NO.

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	11.4	29	60.2	84
0.0	0	19.4	40	30.3	65
0.0	0	24.0	44	39.8	78

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	DP	PROJECT NO.
			CHECKED BY	JPH	6107860

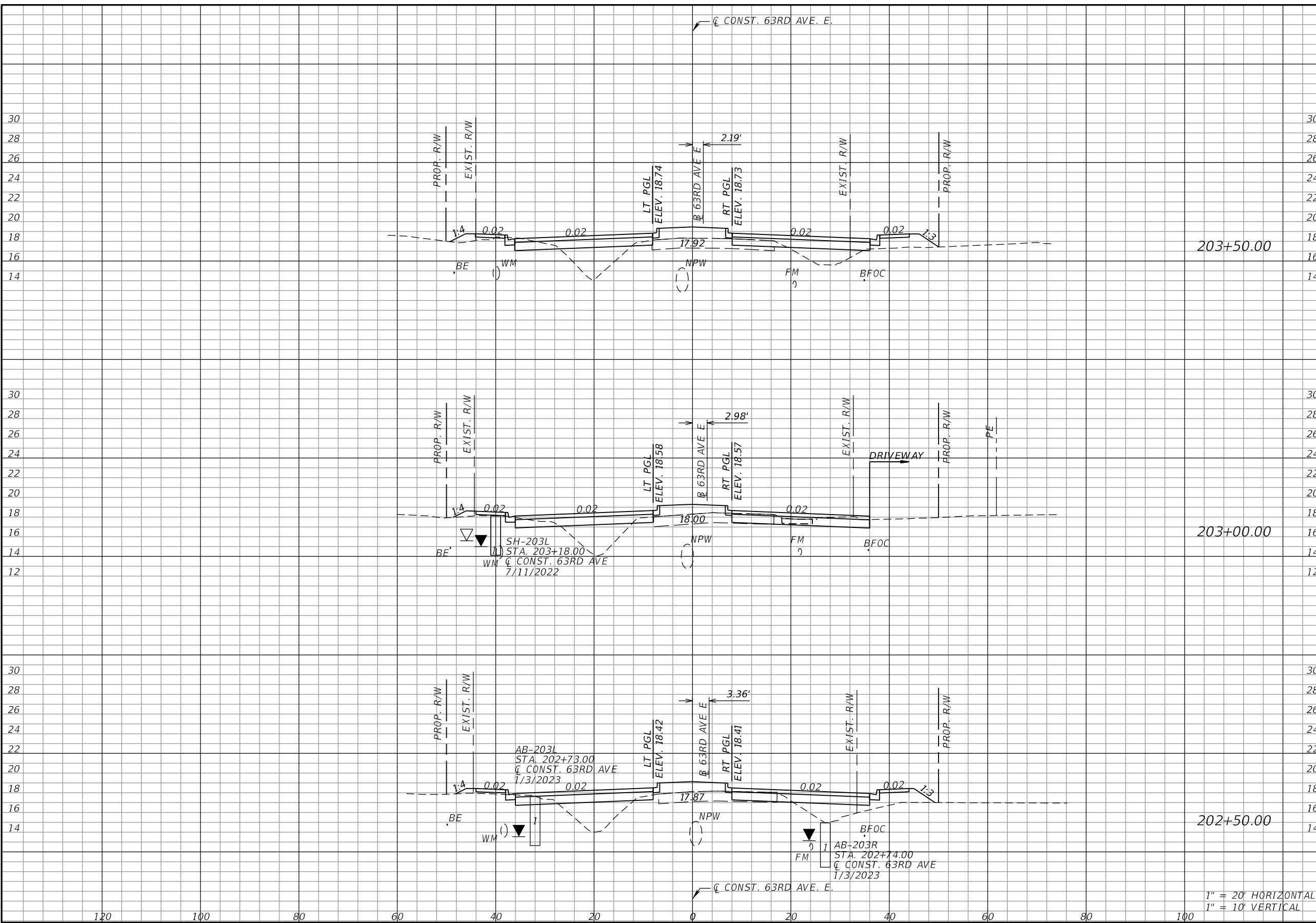
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
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 1022 26th Avenue East
 Bradenton, FL 34208

CROSS SECTIONS (29)

SHEET NO.

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	11.3	33	72.2	104
0.0	0	24.6	32	40.4	105
0.0	0	10.2	20	72.7	123

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				DP	PROJECT NO.
				JPH	6107860

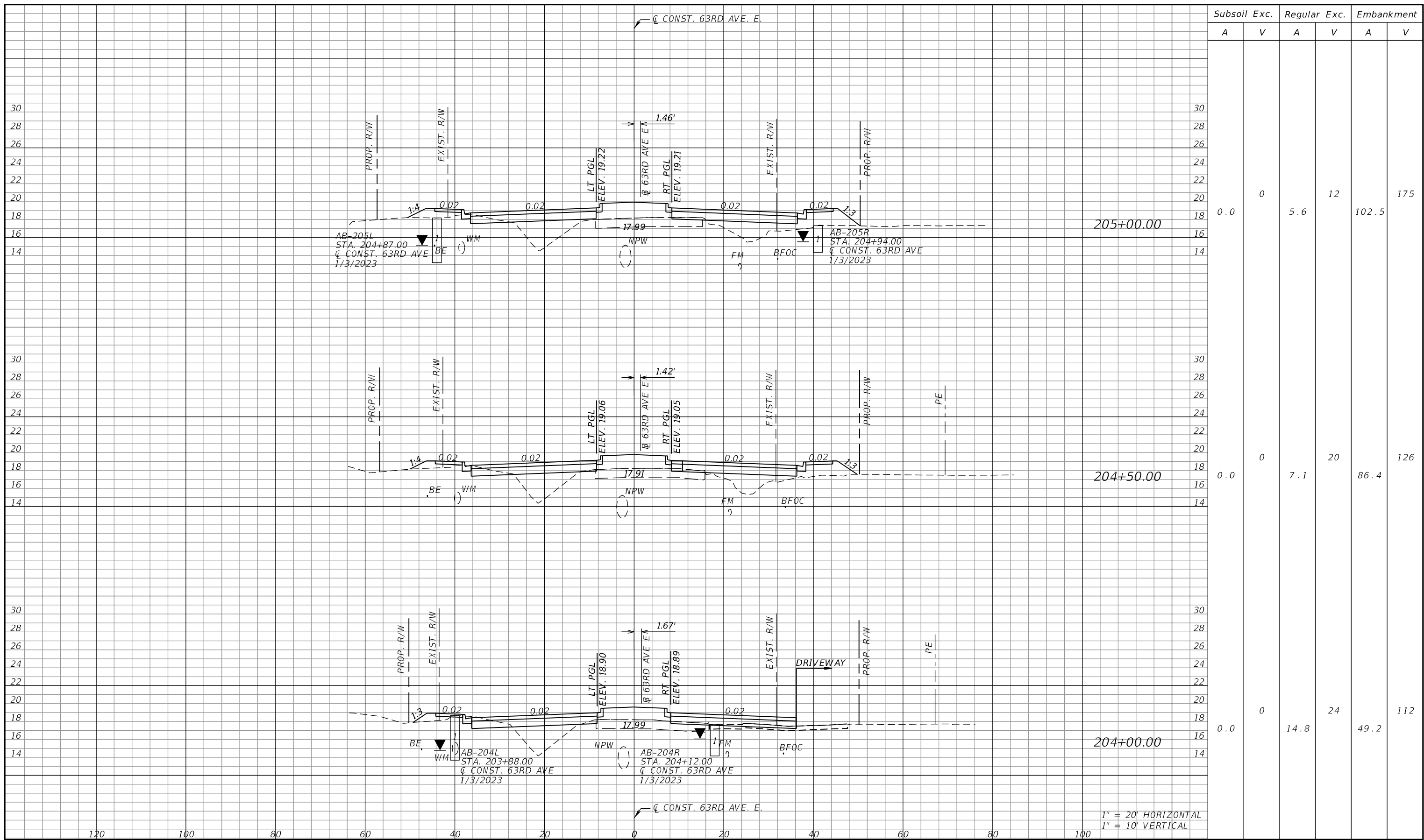
PGA
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 PATEL, GREENE & ASSOCIATES, LLC
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 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
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CROSS SECTIONS (30)

SHEET NO.

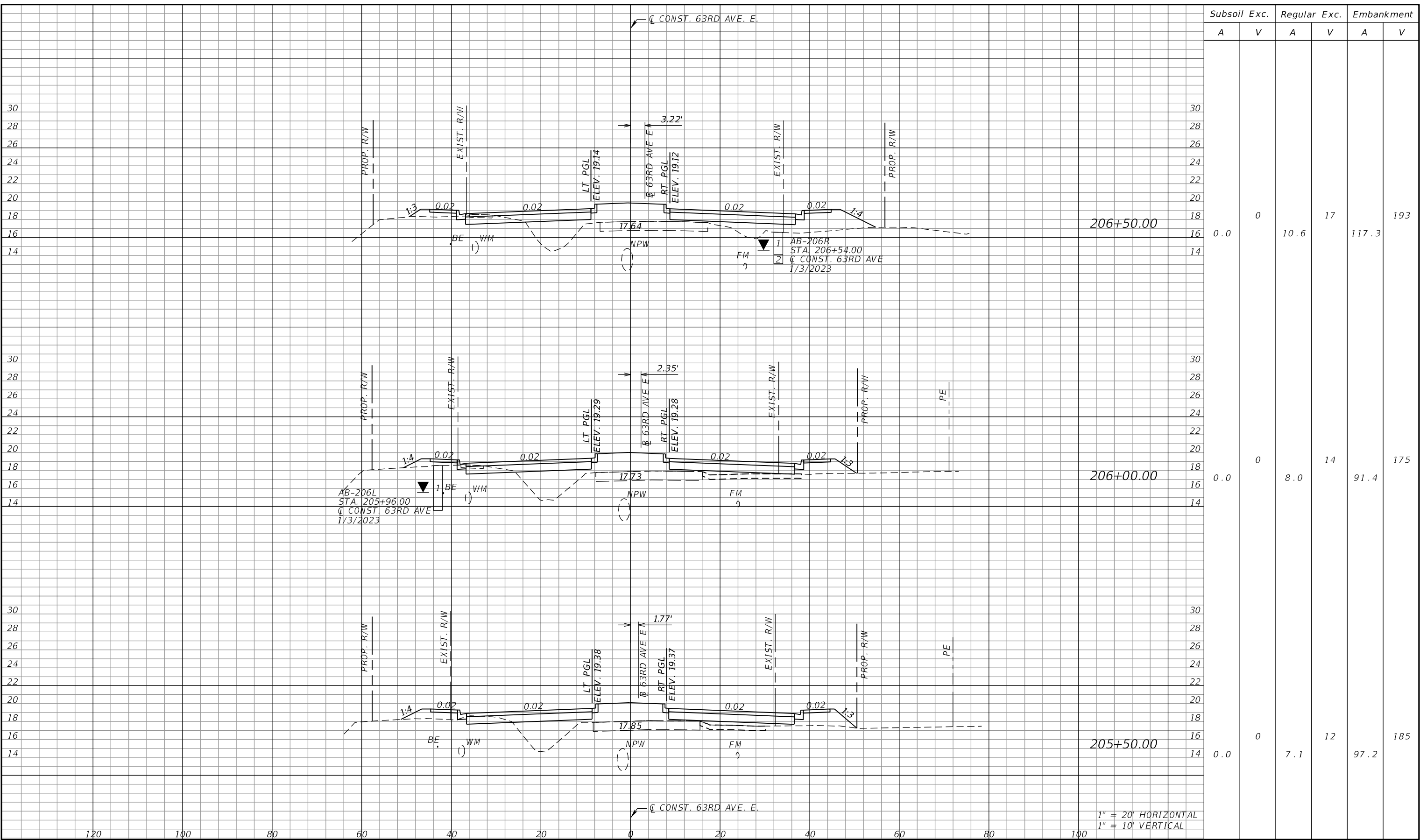
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	5.6	12	102.5	175
0.0	0	7.1	20	86.4	126
0.0	0	14.8	24	49.2	112

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	<p>ADAM S. PEREZ, P.E. LICENSE NUMBER 56066 PATEL, GREENE & ASSOCIATES, LLC 12570 TELECOM DRIVE TEMPLE TERRACE, FL 33637</p> <p>PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208</p>	SHEET NO.
			DESIGNED BY	ASP	03/2023		
			DRAWN BY	DP	PROJECT NO.		
			CHECKED BY	JPH	6107860		
CROSS SECTIONS (31)							

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	10.6	17	117.3	193
0.0	0	8.0	14	91.4	175
0.0	0	7.1	12	97.2	185

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				DP	PROJECT NO.
				JPH	6107860

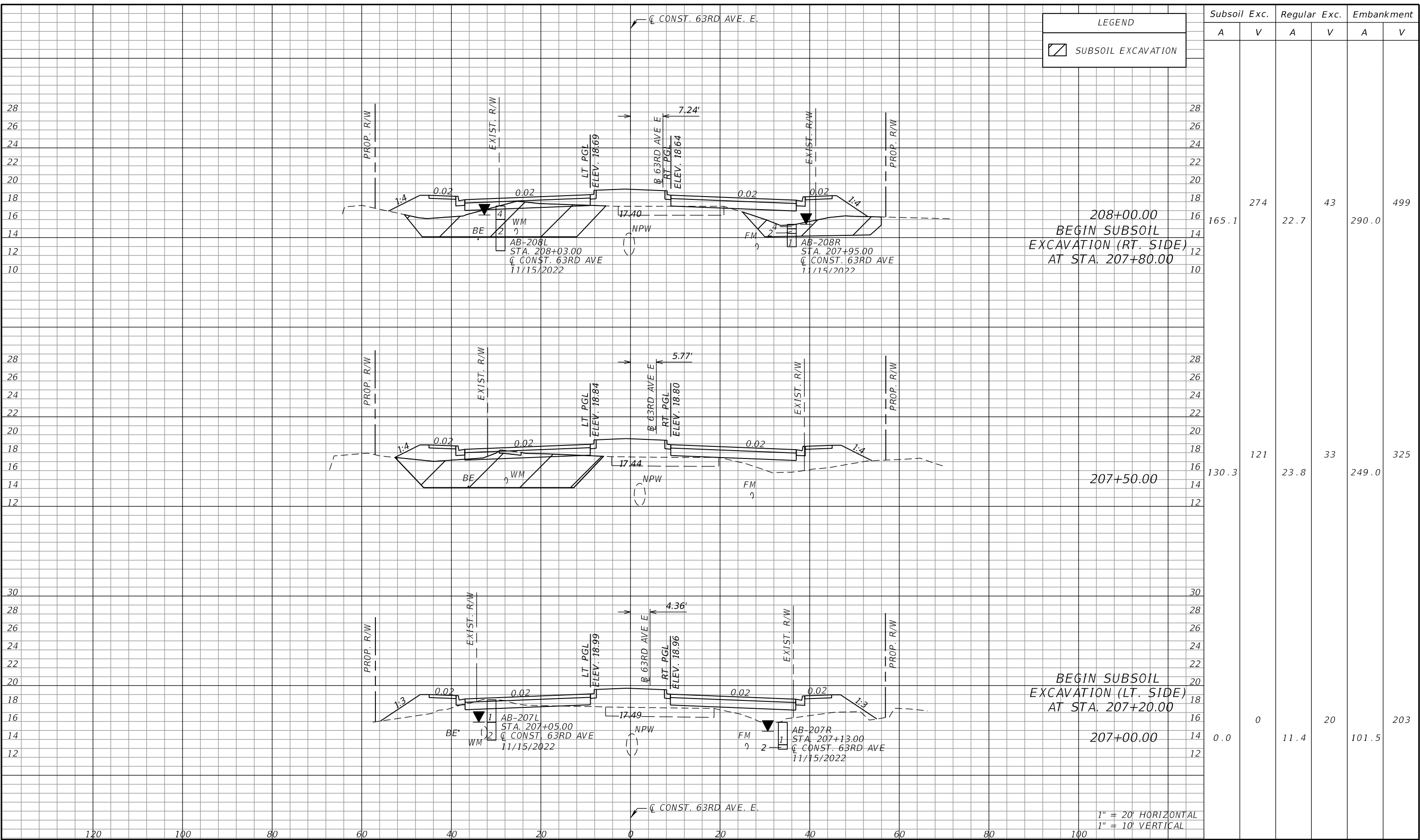
PGA ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
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Bradenton, FL 34208

CROSS SECTIONS (32)

SHEET NO.

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LEGEND	
	SUBSOIL EXCAVATION

	Subsoil Exc.		Regular Exc.		Embankment	
	A	V	A	V	A	V
208+00.00 BEGIN SUBSOIL EXCAVATION (RT. SIDE) AT STA. 207+80.00	165.1	274	22.7	43	290.0	499
207+50.00	130.3	121	23.8	33	249.0	325
207+00.00 BEGIN SUBSOIL EXCAVATION (LT. SIDE) AT STA. 207+20.00	0.0	0	11.4	20	101.5	203

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				DP	PROJECT NO.
				JPH	6107860

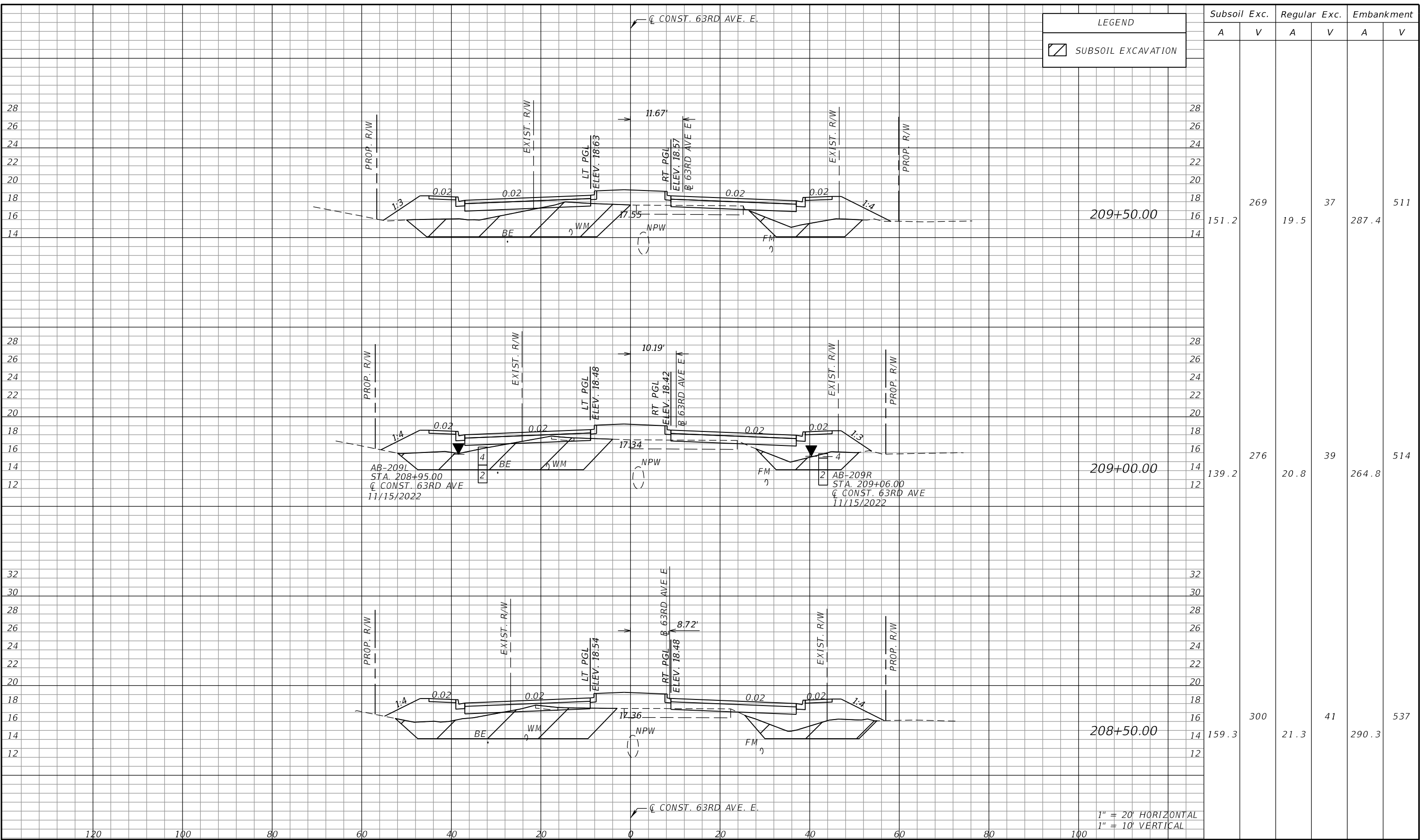
ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

CROSS SECTIONS (33)

SHEET NO.

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
151.2	269	19.5	37	287.4	511
139.2	276	20.8	39	264.8	514
159.3	300	21.3	41	290.3	537

LEGEND

SUBSOIL EXCAVATION

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
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				JPH	6107860

PGA ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
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Manatee County PUBLIC WORKS DEPARTMENT
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Bradenton, FL 34208

CROSS SECTIONS (34)

SHEET NO.

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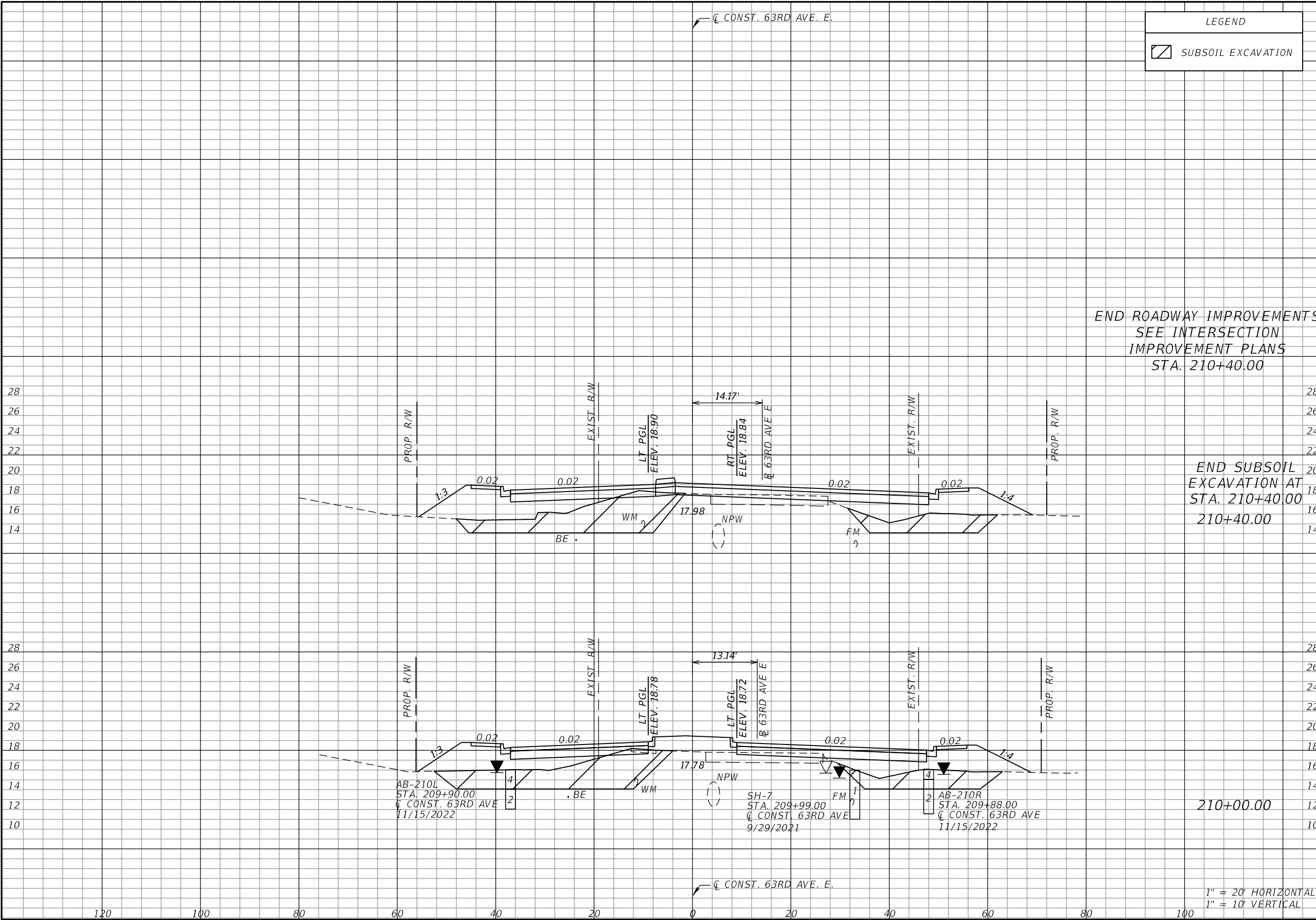
CL CONST. 63RD AVE. E.

LEGEND	
	SUBSOIL EXCAVATION

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
144.5	219	16.9	26	288.9	441
151.5	280	18.2	35	306.7	550

END ROADWAY IMPROVEMENTS
SEE INTERSECTION
IMPROVEMENT PLANS
STA. 210+40.00

END SUBSOIL
EXCAVATION AT
STA. 210+40.00



1" = 20' HORIZONTAL
1" = 10' VERTICAL

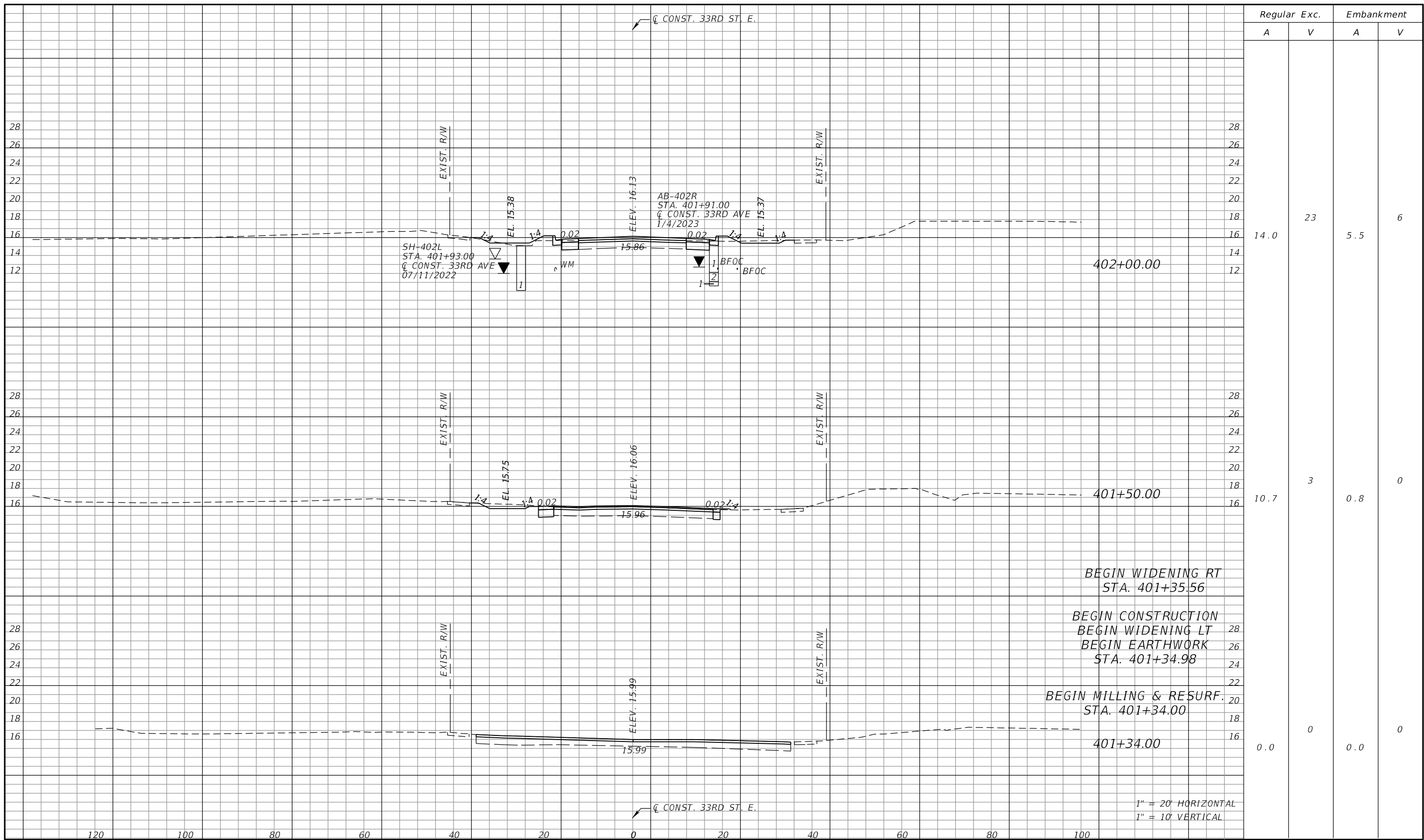
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	DP	PROJECT NO.
			CHECKED BY	JPH	6107860

PGA ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

CROSS SECTIONS (35)

SHEET NO.



Regular		Exc.		Embankment	
A	V	A	V	A	V
14.0	23	5.5	6		
10.7	3	0.8	0		
0.0	0	0.0	0		

BEGIN WIDENING RT
STA. 401+35.56

BEGIN CONSTRUCTION
BEGIN WIDENING LT
BEGIN EARTHWORK
STA. 401+34.98

BEGIN MILLING & RESURF.
STA. 401+34.00

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

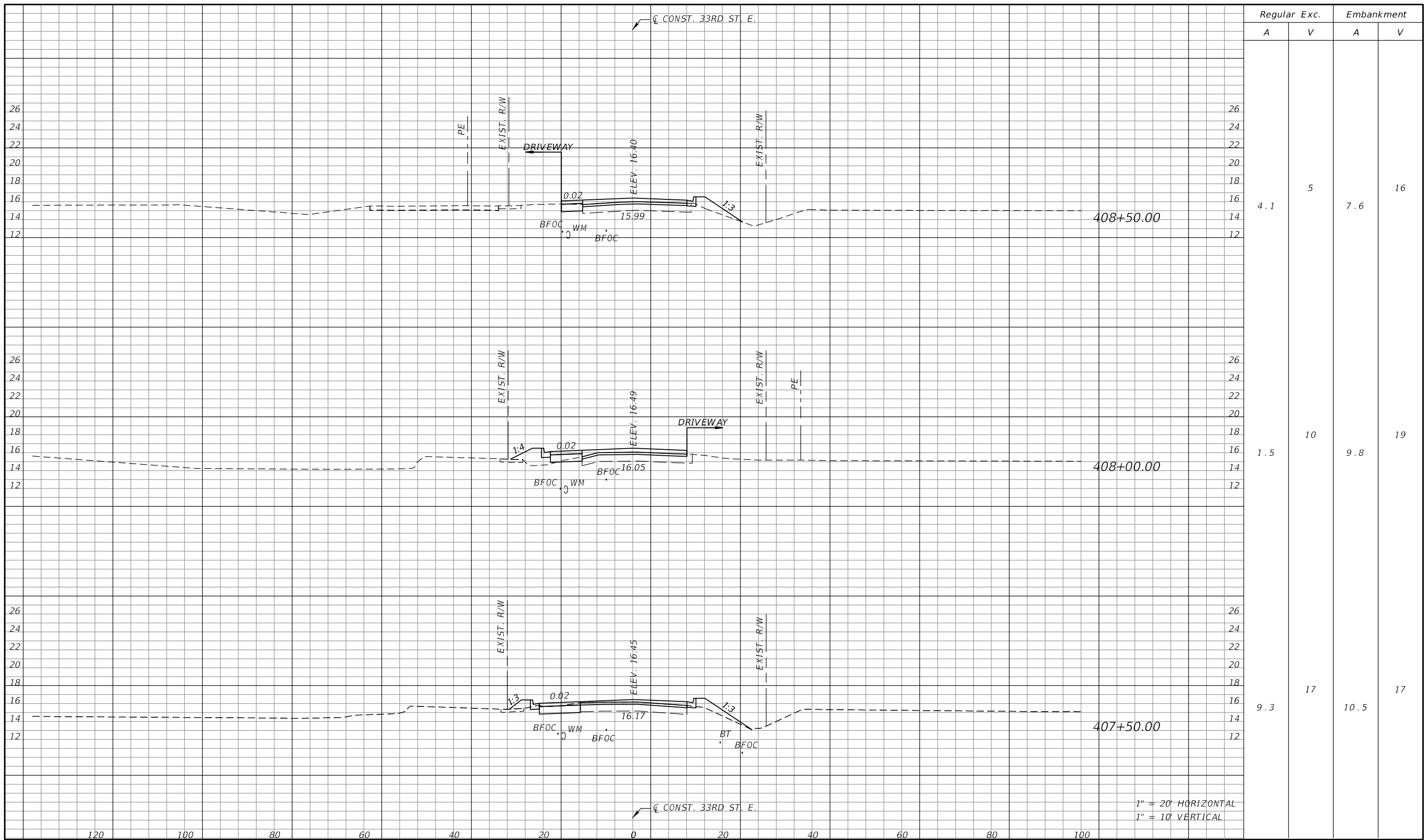
PGA ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
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CROSS SECTIONS (36)

SHEET NO.

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Regular		Exc.		Embankment	
A	V	A	V	A	V
4.1	5	7.6	16		
1.5	10	9.8	19		
9.3	17	10.5	17		

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				JM	PROJECT NO.
				JPH	6107860

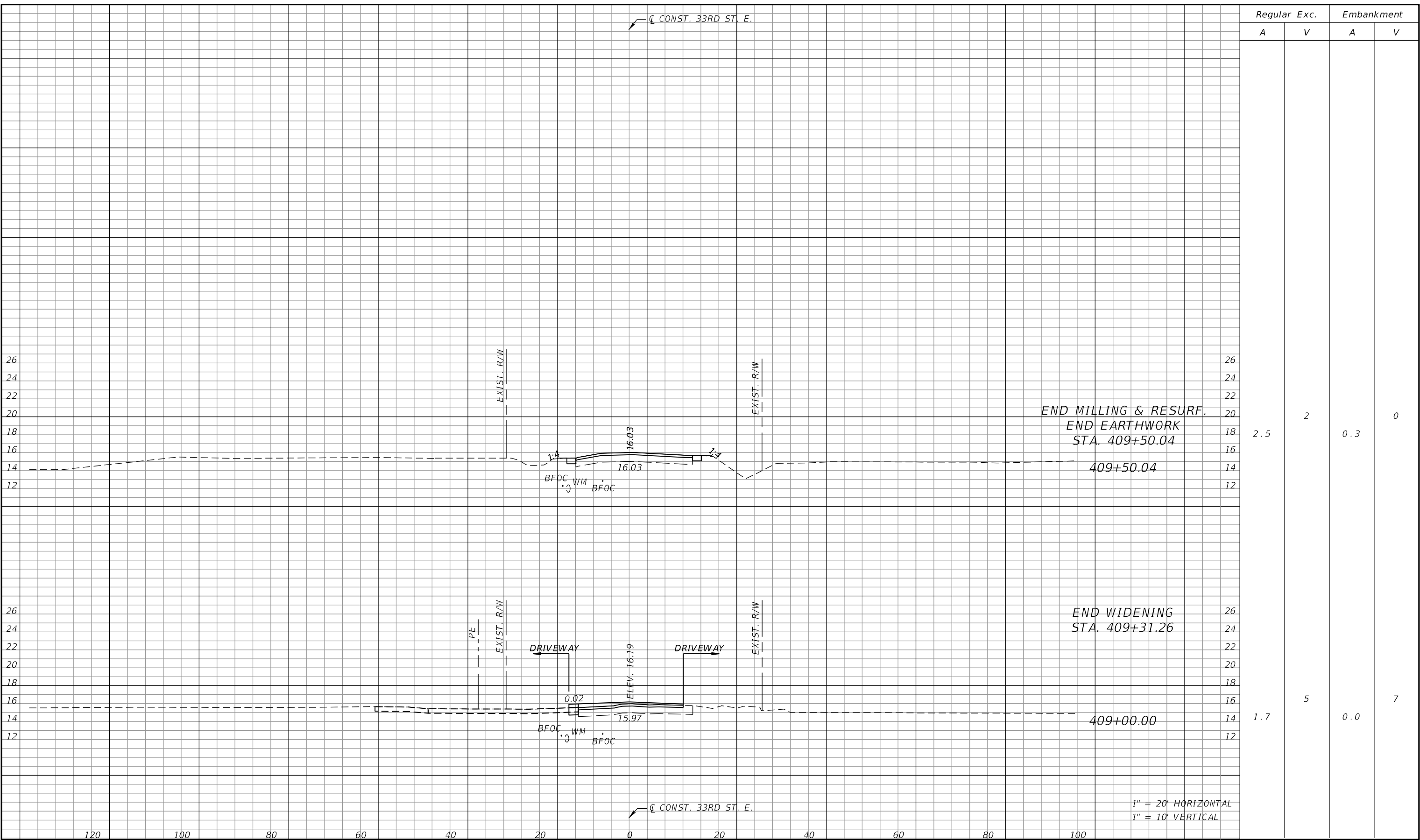
PGA ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
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12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
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CROSS SECTIONS (40)

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Regular		Exc.		Embankment	
A	V	A	V	A	V
2.5	2	0.3	0		
1.7	5	0.0	7		

1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				JM	PROJECT NO.
				JPH	6107860

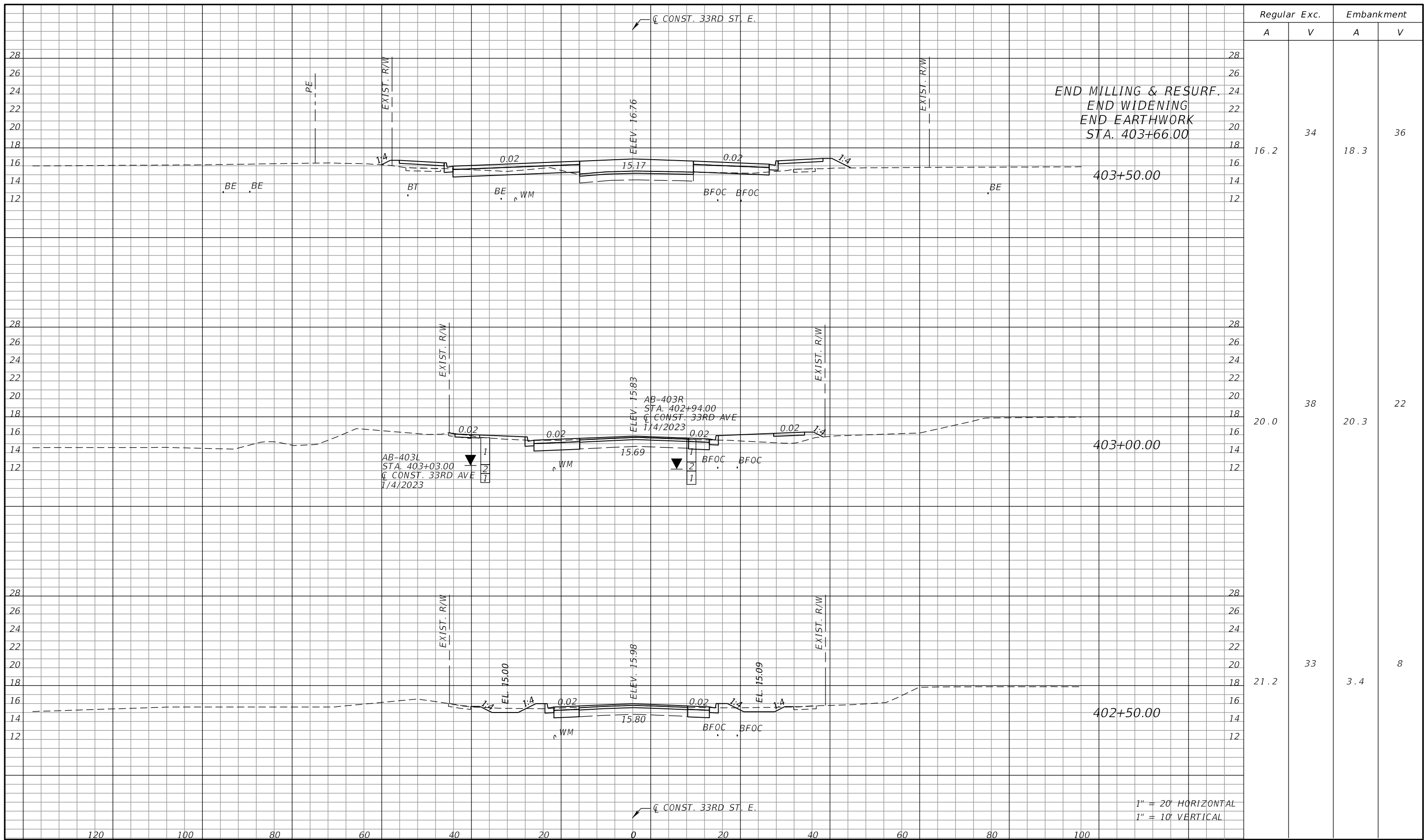
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
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CROSS SECTIONS (41)

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END MILLING & RESURF.
 END WIDENING
 END EARTHWORK
 STA. 403+66.00

Regular		Exc.		Embankment	
A	V	A	V	A	V
16.2	34	18.3	36		
20.0	38	20.3	22		
21.2	33	3.4	8		

1" = 20' HORIZONTAL
 1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				JM	PROJECT NO.
				JPH	6107860

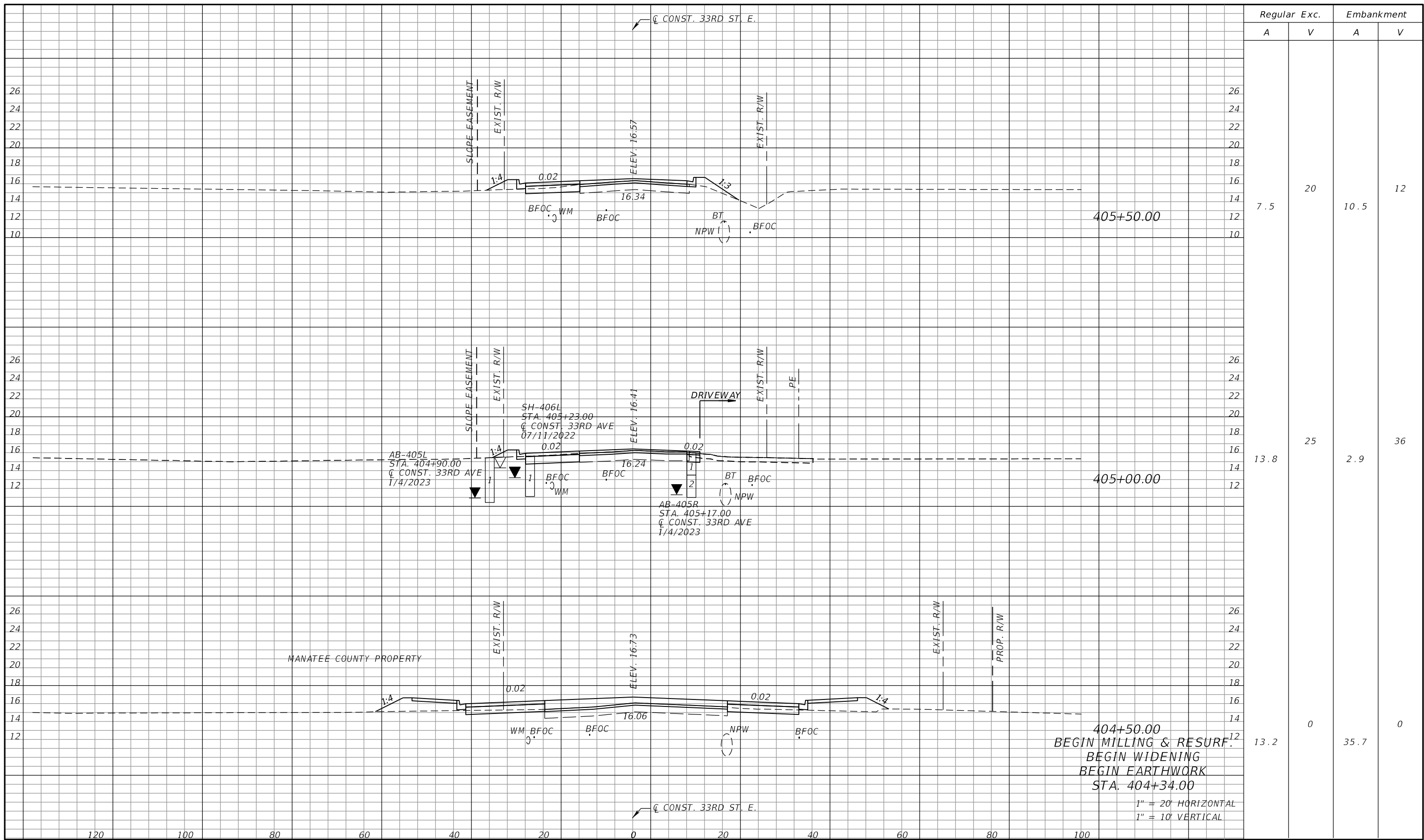
RGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
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CROSS SECTIONS (37)

SHEET NO.

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Regular		Exc.		Embankment	
A	V	A	V	A	V
7.5	20	10.5	12		
13.8	25	2.9	36		
13.2	0	35.7	0		

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				JM	PROJECT NO.
				JPH	6107860

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 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

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CROSS SECTIONS (38)

SHEET NO.

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Regular		Exc.		Embankment	
A	V	A	V	A	V
9.2	20	8.0	14		
12.7	19	6.8	10		
8.3	15	4.5	14		

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				JM	PROJECT NO.
				JPH	6107860

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 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

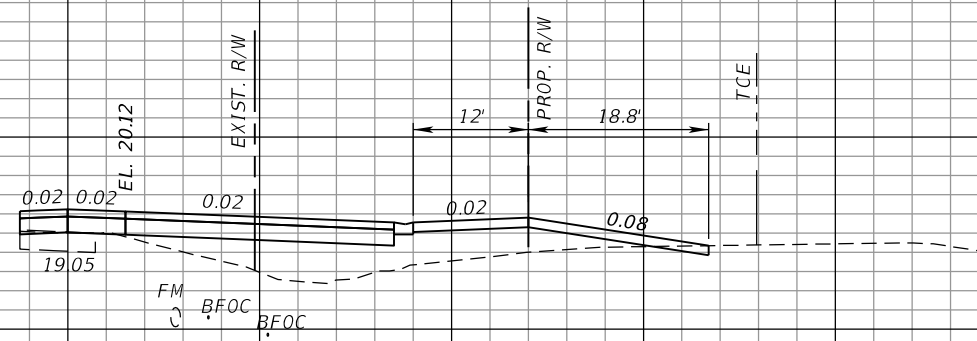
Manatee County
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

CROSS SECTIONS (39)

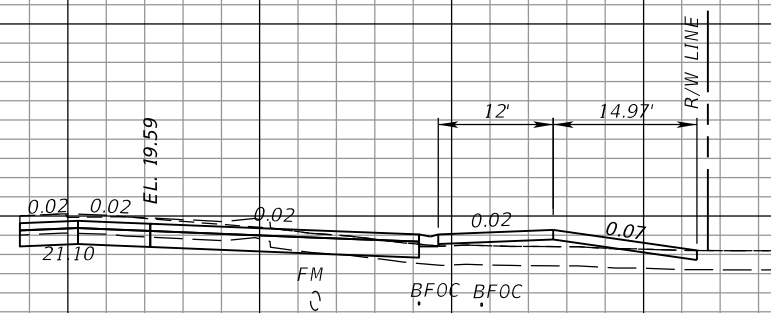
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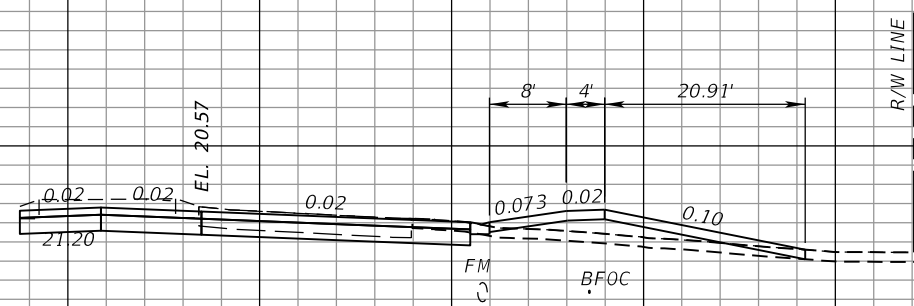
Q CONST. 63RD AVE. E.



167+37.60



163+87.64



162+02.32

Q CONST. 63RD AVE. E.

120 100 80 60 40 20 0 20 40 60 80 100 120

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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			CHECKED BY	JPH	6107860



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12570 TELECOM DRIVE
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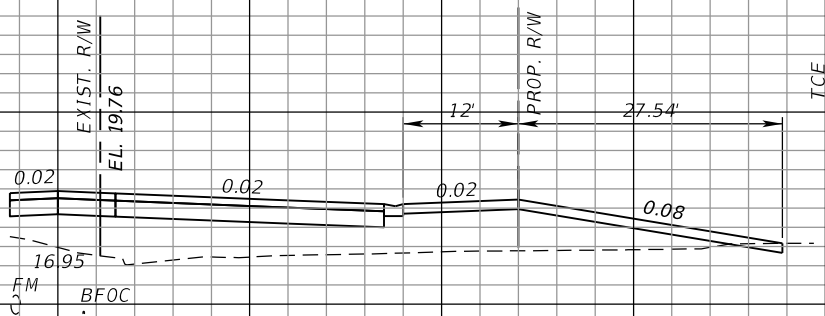
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

**DRIVEWAY HALF
SECTIONS (1)**

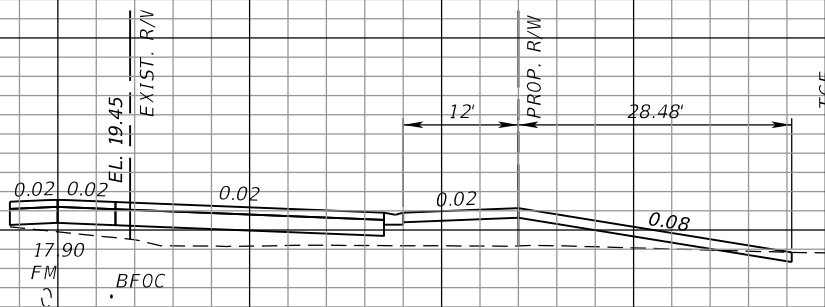
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

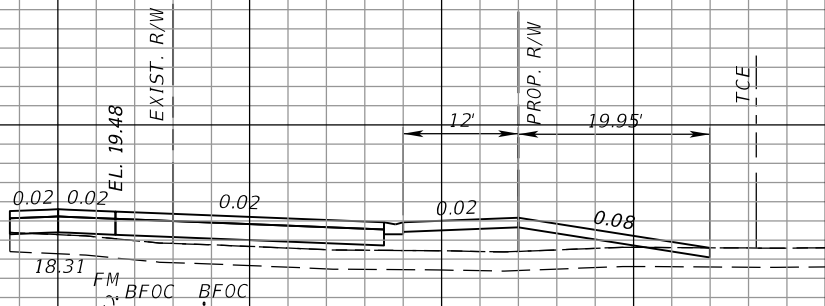
Q CONST. 63RD AVE. E.



172+18.49



171+16.00



169+74.10

Q CONST. 63RD AVE. E.

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

120 100 80 60 40 20 0 20 40 60 80 100 120

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 ADAM S. PEREZ, P.E.
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 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

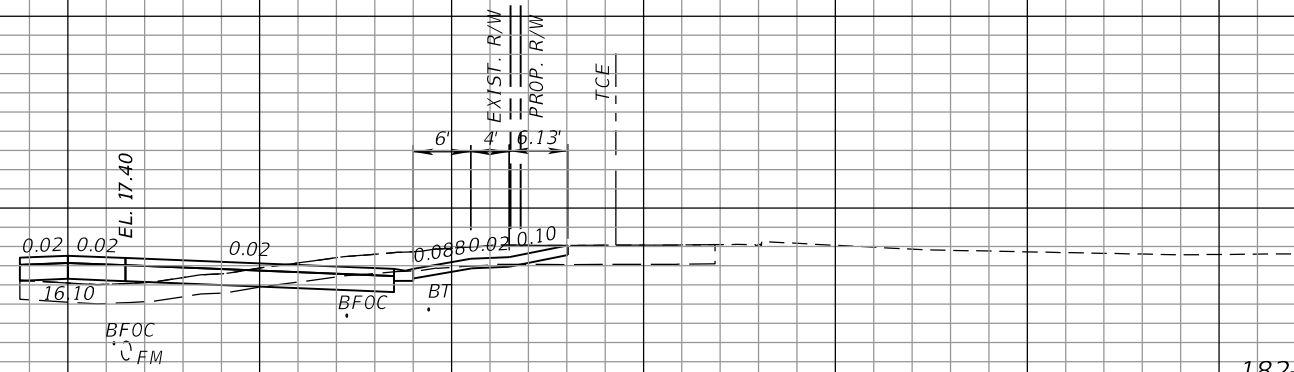
Manatee County
 FLORIDA
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 1022 26th Avenue East
 Bradenton, FL 34208

**DRIVEWAY HALF
 SECTIONS (2)**

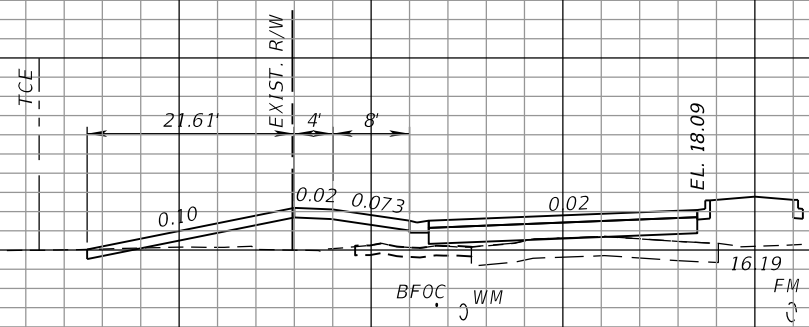
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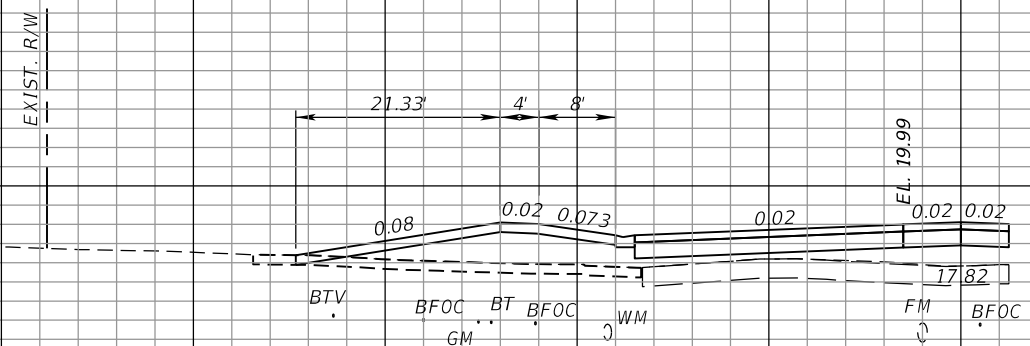
CONST. 63RD AVE. E.



182+56.33



180+40.01



172+95.01

CONST. 63RD AVE. E.

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

120 100 80 60 40 20 0 20 40 60 80 100 120

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			CHECKED BY	JPH	6107860

RGA ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

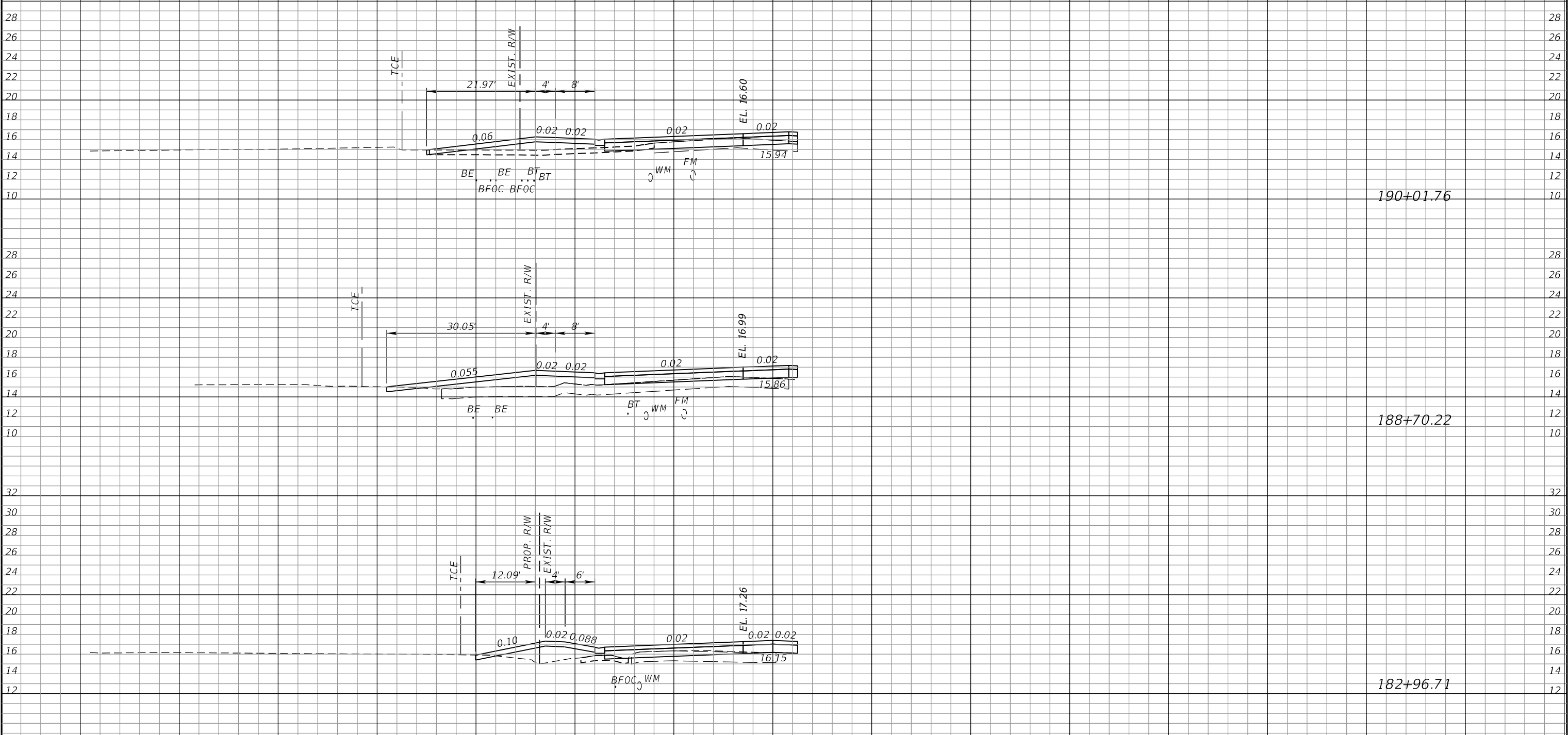
Manatee County PUBLIC WORKS DEPARTMENT
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Bradenton, FL 34208

DRIVEWAY HALF SECTIONS (3)

SHEET NO.

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Q CONST. 63RD AVE. E.



Q CONST. 63RD AVE. E.

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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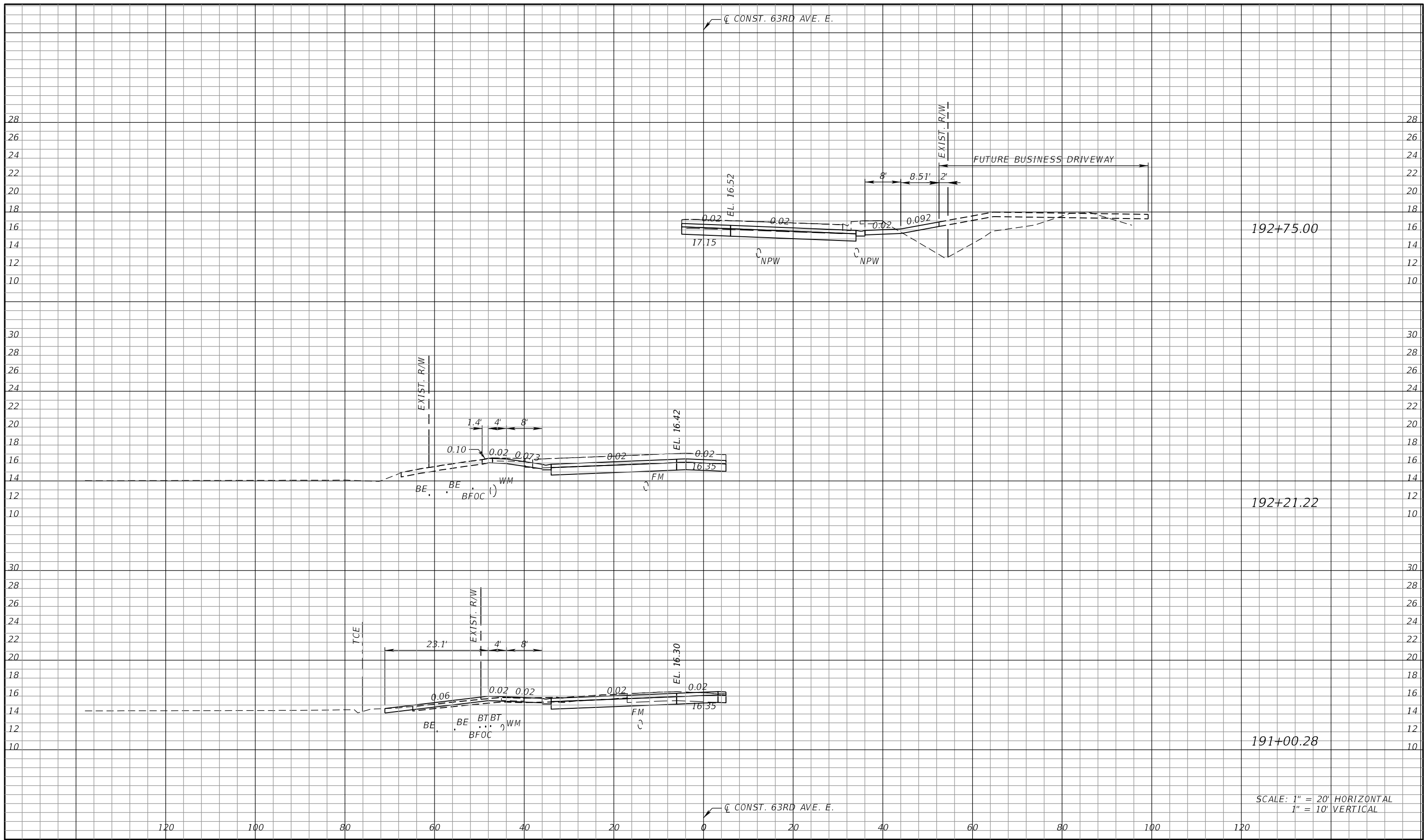
RGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
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**DRIVEWAY HALF
 SECTIONS (4)**

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SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

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 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

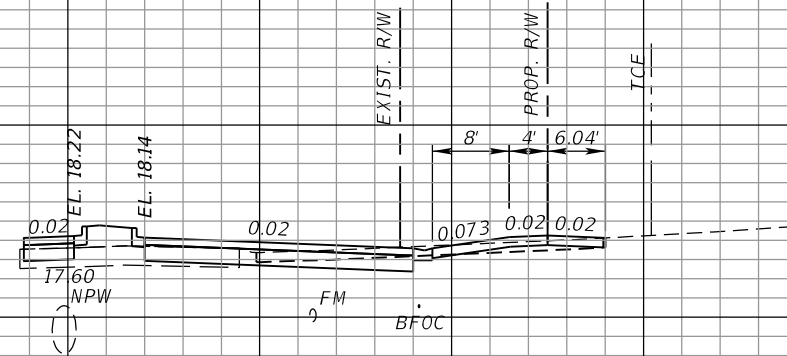
Manatee County
 FLORIDA
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 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

**DRIVEWAY HALF
 SECTIONS (5)**

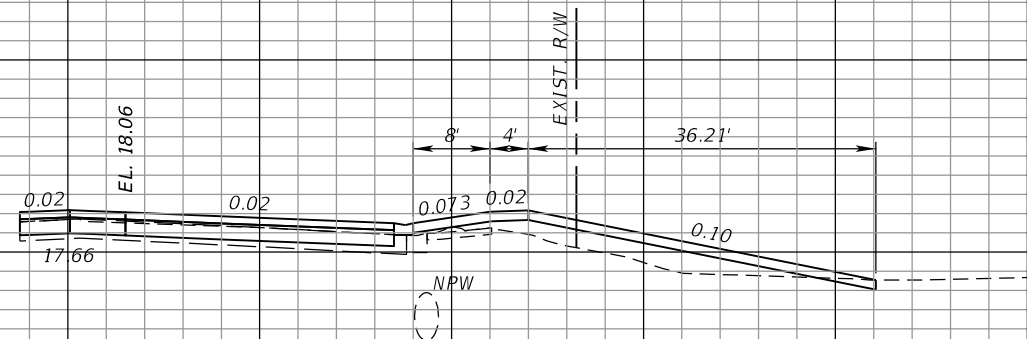
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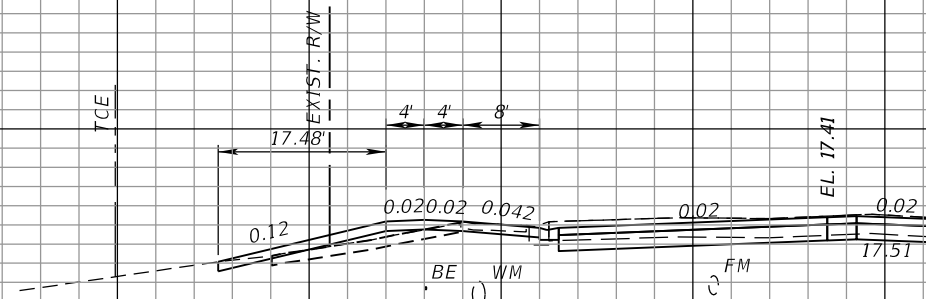
☐ CONST. 63RD AVE. E.



201+64.47



195+25.55



193+79.60

☐ CONST. 63RD AVE. E.

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

120

100

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NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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RGA
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PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

Manatee County
FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

DRIVEWAY HALF
SECTIONS (6)

SHEET
NO.

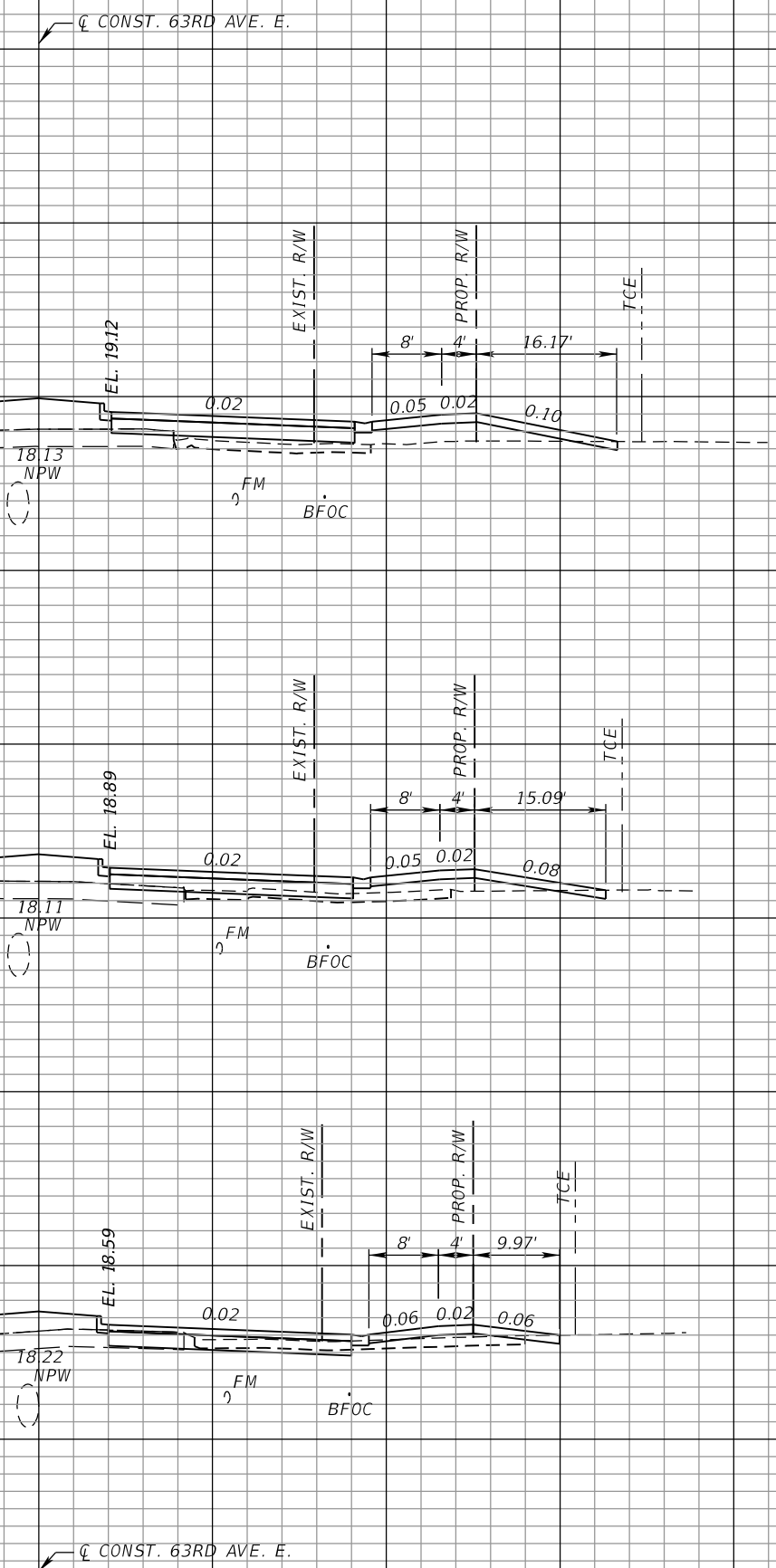
USER: joanna.martinez

12/14/2023

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204+70.43

203+98.41

203+05.09

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

120 100 80 60 40 20 0 20 40 60 80 100 120

Q CONST. 63RD AVE. E.

Q CONST. 63RD AVE. E.

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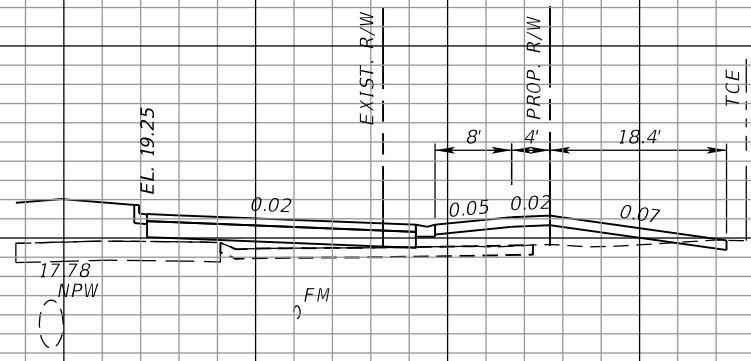
RGA
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 TEMPLE TERRACE, FL 33637

Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

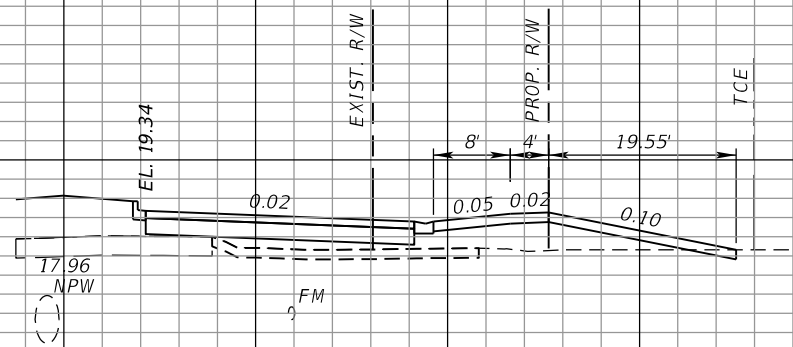
**DRIVEWAY HALF
 SECTIONS (7)**

SHEET NO.

Q CONST. 63RD AVE. E.



206+09.57



205+41.37

Q CONST. 63RD AVE. E.

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

120 100 80 60 40 20 0 20 40 60 80 100 120

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
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RGA
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 TEMPLE TERRACE, FL 33637

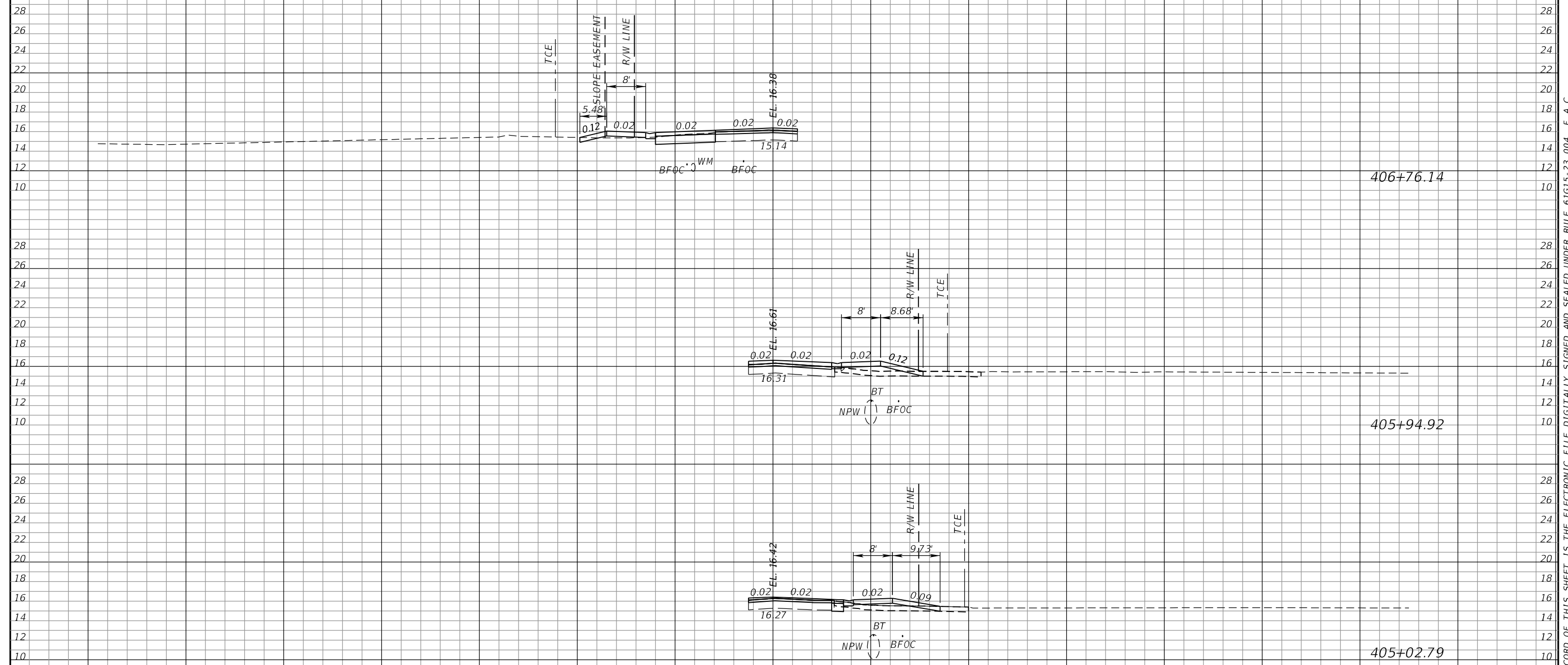
Manatee County
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DRIVEWAY HALF
SECTIONS (8)

SHEET NO.

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Q CONST. 33RD ST. E.



Q CONST. 33RD ST. E.

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
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RGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

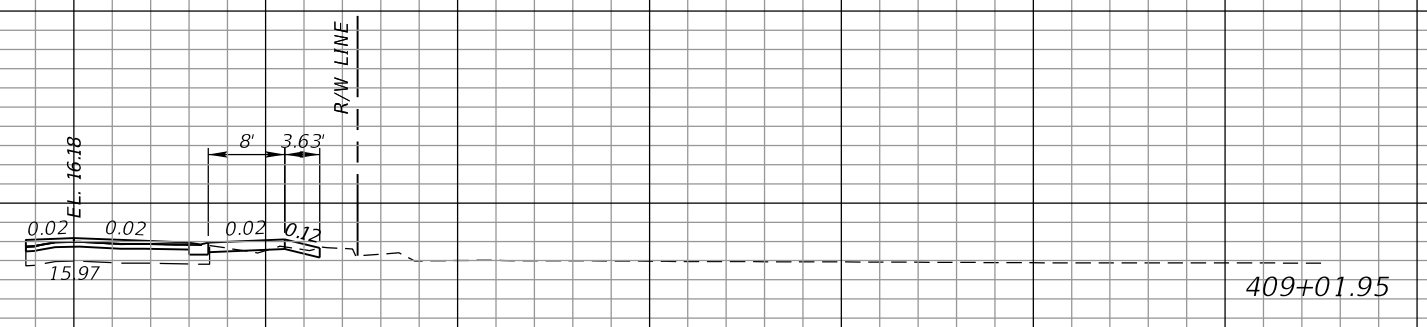
Manatee County
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

DRIVEWAY HALFS
SECTIONS (9)

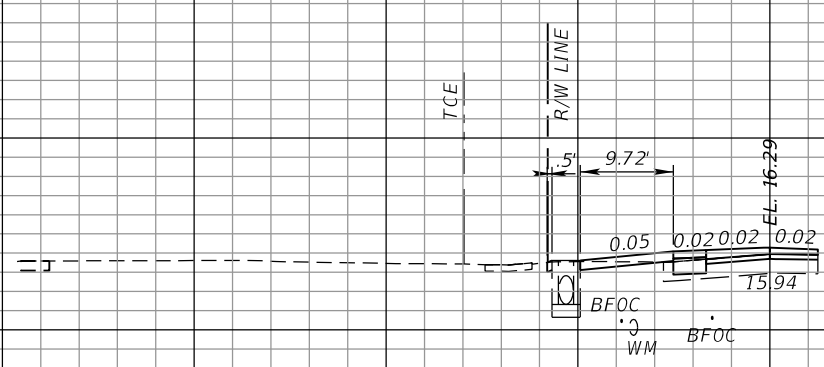
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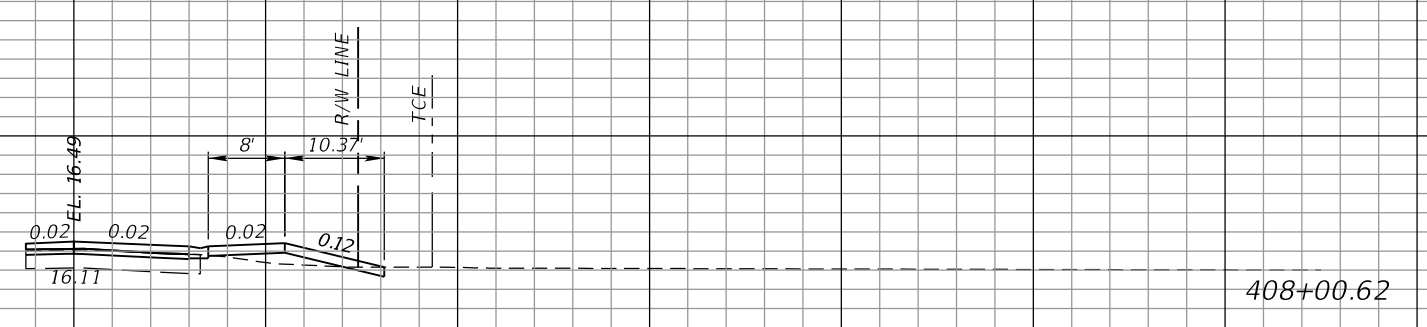
Q CONST. 33RD ST. E.



409+01.95



408+80.17



408+00.62

Q CONST. 33RD ST. E.

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

120 100 80 60 40 20 0 20 40 60 80 100 120

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

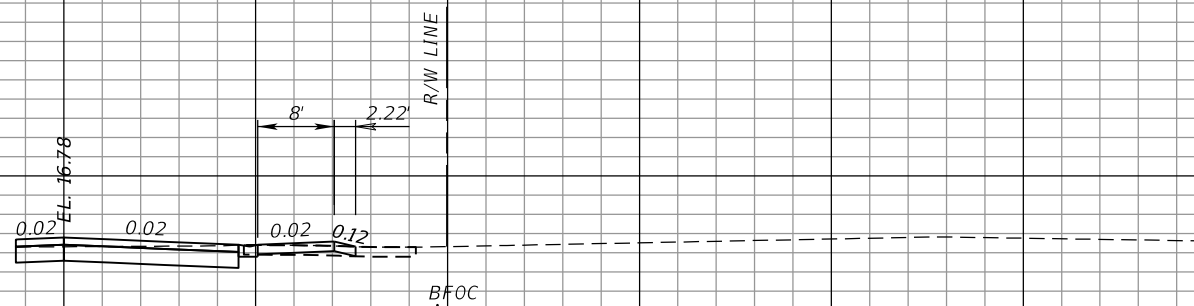
Manatee County
 PUBLIC WORKS DEPARTMENT
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 1022 26th Avenue East
 Bradenton, FL 34208

DRIVEWAY HALF SECTIONS (10)

SHEET NO.

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CONST. PROSPECT RD.



800+70.41

SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

CONST. PROSPECT RD.

120 100 80 60 40 20 0 20 40 60 80 100 120

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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RGA
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 12570 TELECOM DRIVE
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Manatee County
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 1022 26th Avenue East
 Bradenton, FL 34208

**DRIVEWAY HALF
 SECTIONS (11)**

SHEET NO.

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THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE STANDARD PLANS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1.0 SITE DESCRIPTION:

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT INVOLVES RECONSTRUCTION OF 63RD AVE FROM US 301 TO TUTTLE AVE. TO AN URBAN 4-LANE ROADWAY WITH BICYCLE LANES AND SIDEWALKS. THERE ARE TWO STORMWATER MANAGEMENT FACILITIES (SMF), FLOODPLAIN COMPENSATION SITE (FPC) AND STORM DRAIN SYSTEMS WHICH COLLECT BOTH ONSITE AND OFFSITE WATER. THE PROJECT LENGTH IS APPROXIMATELY 0.97 MILES.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS A SEQUENCE IS PROPOSED THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

1. CLEARING AND GRUBBING, EARTHWORK, AND STORM DRAIN CONSTRUCTION FOR THE OUTFALL FROM THE PONDS.
2. CLEARING AND GRUBBING, EARTHWORK FOR POND CONSTRUCTION.
3. STORM DRAIN CONSTRUCTION. CONSTRUCT THE STORM DRAIN PIPE FROM THE SMF TO ROADSIDE DITCH IN THE UPSTREAM DIRECTION.
4. EARTHWORK ASSOCIATED WITH THE CONSTRUCTION OF THE ROAD, STORM DRAIN SYSTEMS, PONDS AND FPC SITE.

1.C. AREA ESTIMATES:

TOTAL SITE AREA: 33.74 ACRES
 TOTAL AREA TO BE DISTURBED: 33.74 ACRES

1.D. RUNOFF DATA:

RUNOFF COEFFICIENTS:

BEFORE: 0.35
 DURING: VARIES FROM 0.35 TO 0.50
 AFTER: 0.38

SOILS DATA: THE RESULTS OF THE SOIL BORINGS ALONG THE ROADWAY ARE SHOWN IN THE ROADWAY SOIL SURVEY SHEET(S). THE RESULTS OF SOIL BORINGS DONE IN THE PONDS ARE SHOWN ON THE STORMWATER FACILITIES SHEETS. THE NUMBERS FOR THESE ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS. IN GENERAL, THE SOILS ARE POORLY DRAINED FINE SANDY SOILS.

OUTFALL INFORMATION:

THERE ARE 5 OUTFALLS.

#1-4 DESCRIPTION: 63RD AVE. MAIN OUTFALL, 2-42" PIPES WEST SIDE AND 2-36" PIPES EAST SIDE LOCATED UNDER BRIDGE.

LOCATION: LATITUDE 27°25'44" N, LONGITUDE, 82°31'10" W.
 EST. DRAINAGE AREA SIZE: 118.9 ACRES
 RECEIVING WATER NAME: PEARCE CANAL

#5 DESCRIPTION: POND 1 SECONDARY OUTFALL, LOCATED ON SOUTHEAST SIDE OF POND, CONTROL STRUCTURE WITH 24" PIPE TO DITCH.

LOCATION: LATITUDE 27°35'32" N, LONGITUDE, 81°31'27" W.
 EST. DRAINAGE AREA SIZE: 34.2 ACRES
 RECEIVING WATER NAME: PEARCE CANAL

1.E. SITE MAP:

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

* DRAINAGE PATTERNS: DRAINAGE PATTERNS WITHIN THE AREA OF THIS PROJECT DRAINS TOWARD PEARCE CANAL.

*APPROXIMATE SLOPES: THE SLOPES OF THE PROJECT CAN BE SEEN IN THE CROSS SECTIONS SHEETS AND POND CROSS SECTIONS.

*AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE PLAN SHEETS AND THE STORMWATER FACILITIES SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.

*AREAS NOT TO BE DISTURBED: ESSENTIALLY THE WHOLE PROJECT WILL BE DISTURBED DURING CONSTRUCTION.

*LOCATIONS OF TEMPORARY CONTROLS: THESE ARE SHOWN ON THE EROSION CONTROL SHEETS AND SUMMARY OF QUANTITIES SHEETS.

* LOCATIONS OF PERMANENT CONTROLS: THE STORMWATER POND IS THE PRIMARY PERMANENT STORMWATER MANAGEMENT CONTROL. THESE ARE SHOWN ON THE STORMWATER FACILITIES SHEETS.

* AREAS TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON THE TYPICAL SECTION SHEETS, PLAN SHEETS, AND STORMWATER FACILITIES SHEETS.

* SURFACE WATERS: NONE.

* DISCHARGE POINTS TO SURFACE WATERS: THERE ARE NO DIRECT DISCHARGE POINTS TO SURFACE WATERS.

1.F. RECEIVING WATERS:

SEE ITEM 1.D. FOR THE OUTFALL LOCATIONS AND RECEIVING WATER NAMES. THERE ARE NO WETLAND AREAS ON THIS PROJECT SITE.

2.0 CONTROLS:

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TEMPORARY TRAFFIC CONTROL (TTC) PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THE CONSTRUCTION PLANS. WHERE FOLLOWING THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THESE CONSTRUCTION PLANS, THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SEDIMENT AND EROSION CONTROL PLAN, SUBJECT TO APPROVAL BY THE ENGINEER. AS WORK PROGRESSES, MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT

BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

2.A1 STABILIZATION PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

- * ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATION SECTION 104.
- * TURF AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.

PERMANENT:

- * ASPHALT OR CONCRETE SURFACE.
- * SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

2.A.2 STRUCTURAL PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

TEMPORARY:



- * SEDIMENT BARRIERS IN ACCORDANCE WITH SPECIFICATION SECTION 104 AND FDEP EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL.
- * INLET PROTECTION IN ACCORDANCE WITH FDEP EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL AND SPECIAL DETAILS SHOWN IN THE TTC PLAN.
- * SEDIMENT CONTAINMENT SYSTEM: THE PERMANENT STORMWATER PONDS WILL BE TEMPORARILY MODIFIED ACCORDING TO THE DETAILS IN THE TTC PLAN.

PERMANENT:

- * STORMWATER PONDS.
- * SOD.

2.B STORMWATER MANAGEMENT:

A STORM DRAIN SYSTEM WILL BE CONSTRUCTED TO CONVEY RUNOFF TO THE STORMWATER MANAGEMENT FACILITY WHICH HAS BEEN PERMITTED BY THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) AND COMPLY WITH APPLICABLE STANDARD PLANS.

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			DRAWN BY	ZK	PROJECT NO.				
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2.C OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

- * PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.
- * DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
- * DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS OR WETLANDS.

2.C.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. INCLUDE IN THE PROPOSED METHODS AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- * COVERING LOADED HAUL TRUCKS WITH TARPAULINS.
- * REMOVING EXCESS DIRT FROM ROADS DAILY.
- * STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO DESIGN STANDARD 106.
- * USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:

IN THE SECTION 104 EROSION CONTROL PLAN, DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF SECTION 570 OF THE SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

2.D APPROVED STATE AND LOCAL PLANS AND PERMITS:

- * SWFWMD PERMIT NO.: TO BE DETERMINED

3.0 MAINTENANCE:

IN THE SEDIMENT AND EROSION CONTROL PLAN, PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL, AT A MINIMUM, COMPLY WITH THE FOLLOWING:

- * SILT FENCE: MAINTAIN PER SECTION 104. ANTICIPATE REPLACING SILT FENCE ON 12-MONTH INTERVALS.
- * SEDIMENT BARRIERS: REMOVE SEDIMENT AS PER MANUFACTURER'S

RECOMMENDATIONS OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.

* STORMWATER MANAGEMENT FACILITIES: THE STORMWATER MANAGEMENT FACILITIES ARE TEMPORARY SEDIMENT BASINS UNTIL THE AREAS THAT DRAIN TO THEM ARE STABILIZED, SO UNTIL THEN, REMOVE SEDIMENT FROM THE STORMWATER MANAGEMENT FACILITIES WHEN IT BECOMES 1.5' DEEP AT ANY POINT.

4.0 INSPECTIONS:

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER.

TO COMPLY, INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, CONDUCT INSPECTION AT LEAST ONCE EVERY MONTH. ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.



- * POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
- * POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.
- * DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- * AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- * STRUCTURAL CONTROLS.
- * STORMWATER MANAGEMENT SYSTEMS.
- * LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.





INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

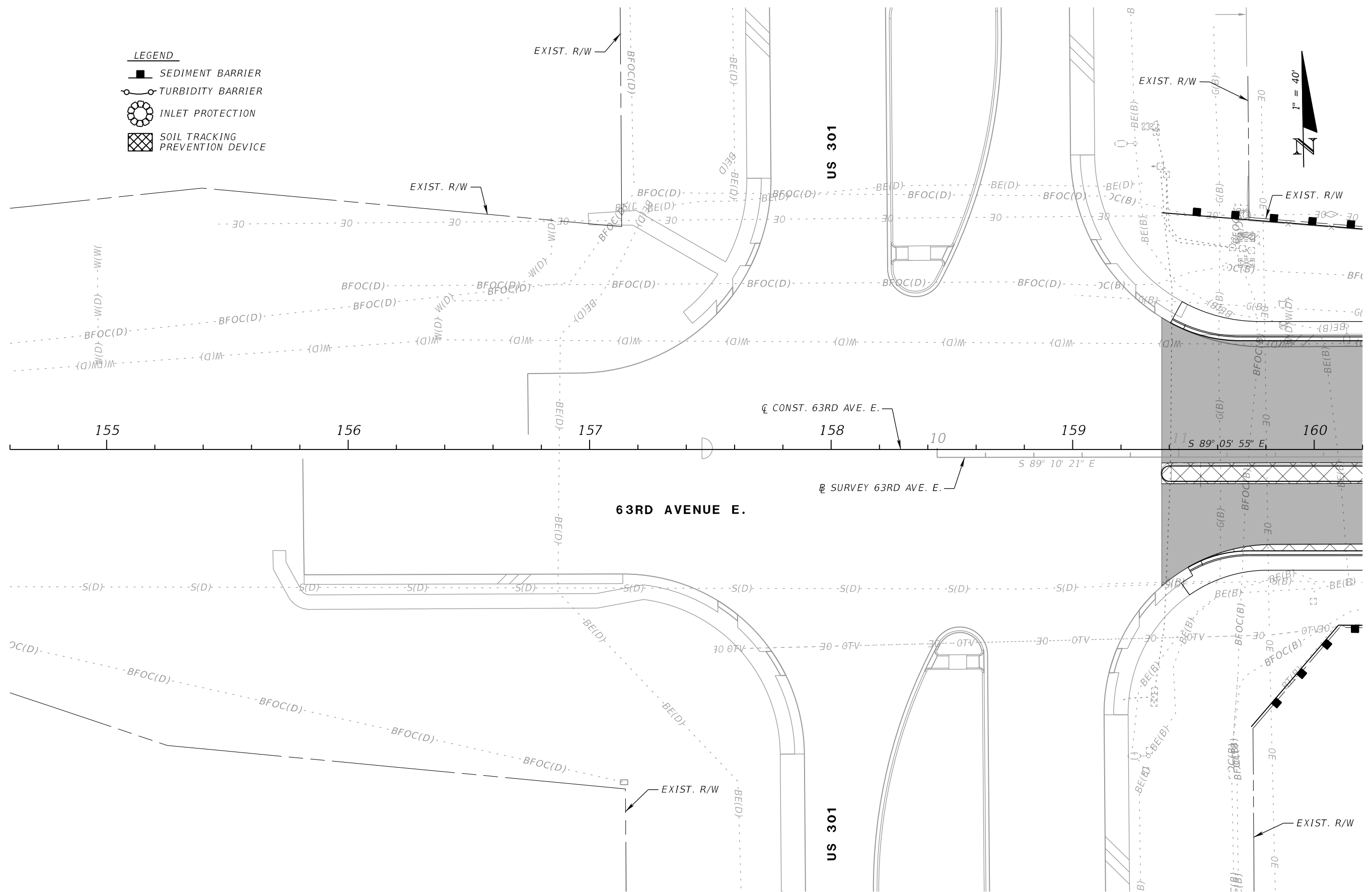
IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

5.0 NON-STORMWATER DISCHARGES:

IN THE SECTION 104 EROSION CONTROL PLAN, IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT THE DISTRICT CONTAMINATION IMPACT COORDINATOR EDUARDO SAINTEN AT (407) 264-3408.

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- LEGEND**
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
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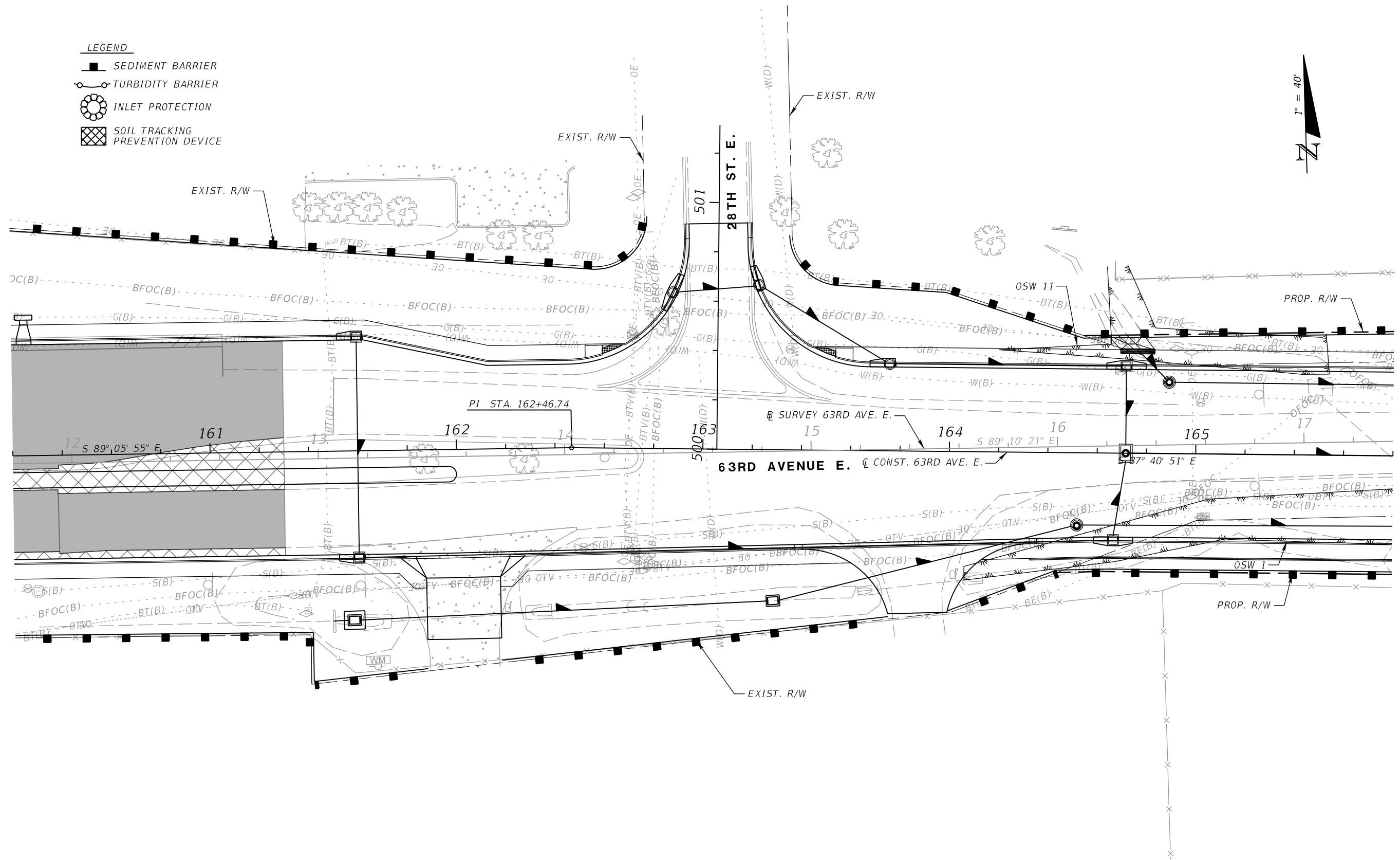
EROSION CONTROL PLAN (1)

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


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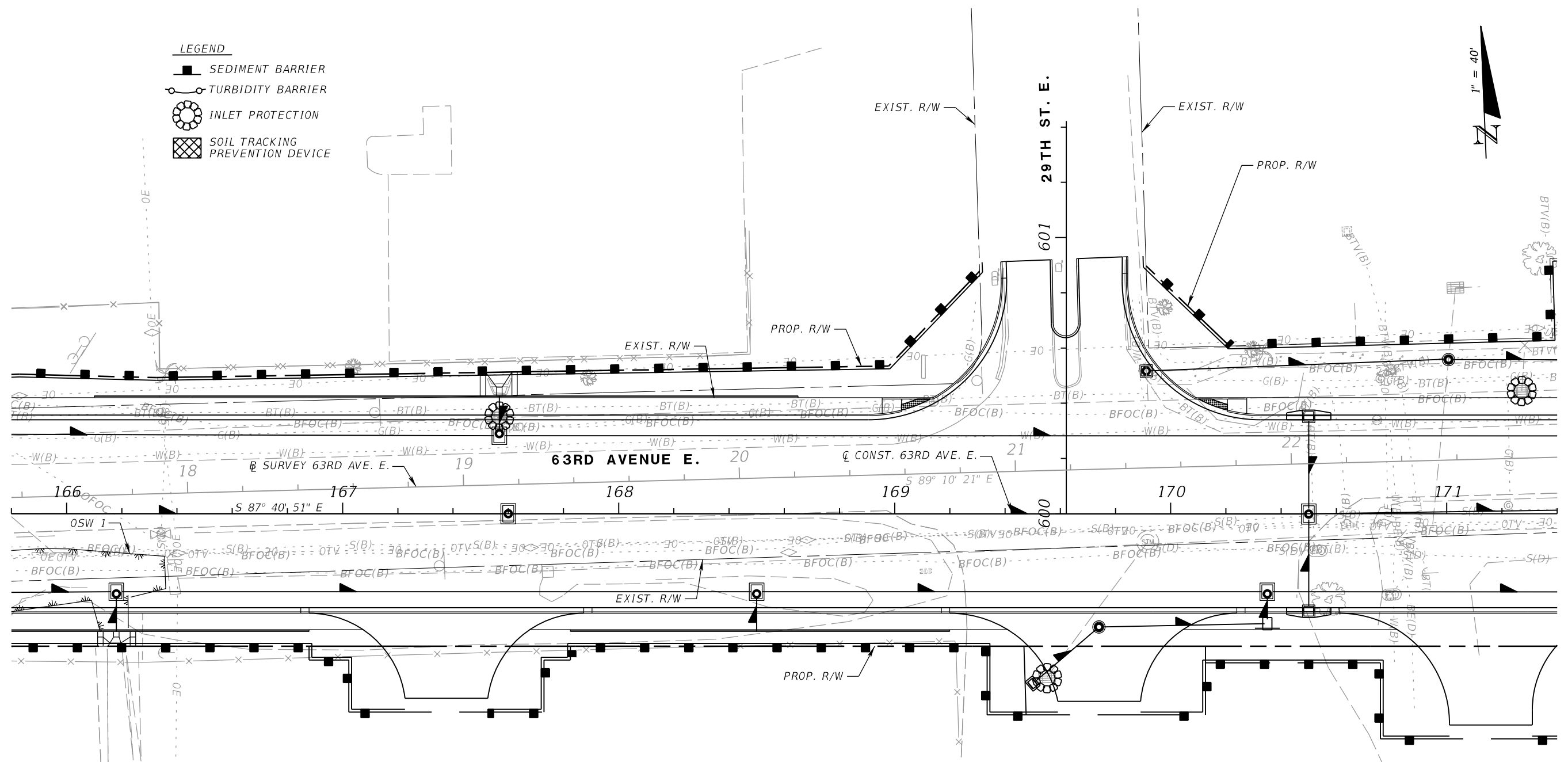
EROSION CONTROL PLAN (2)

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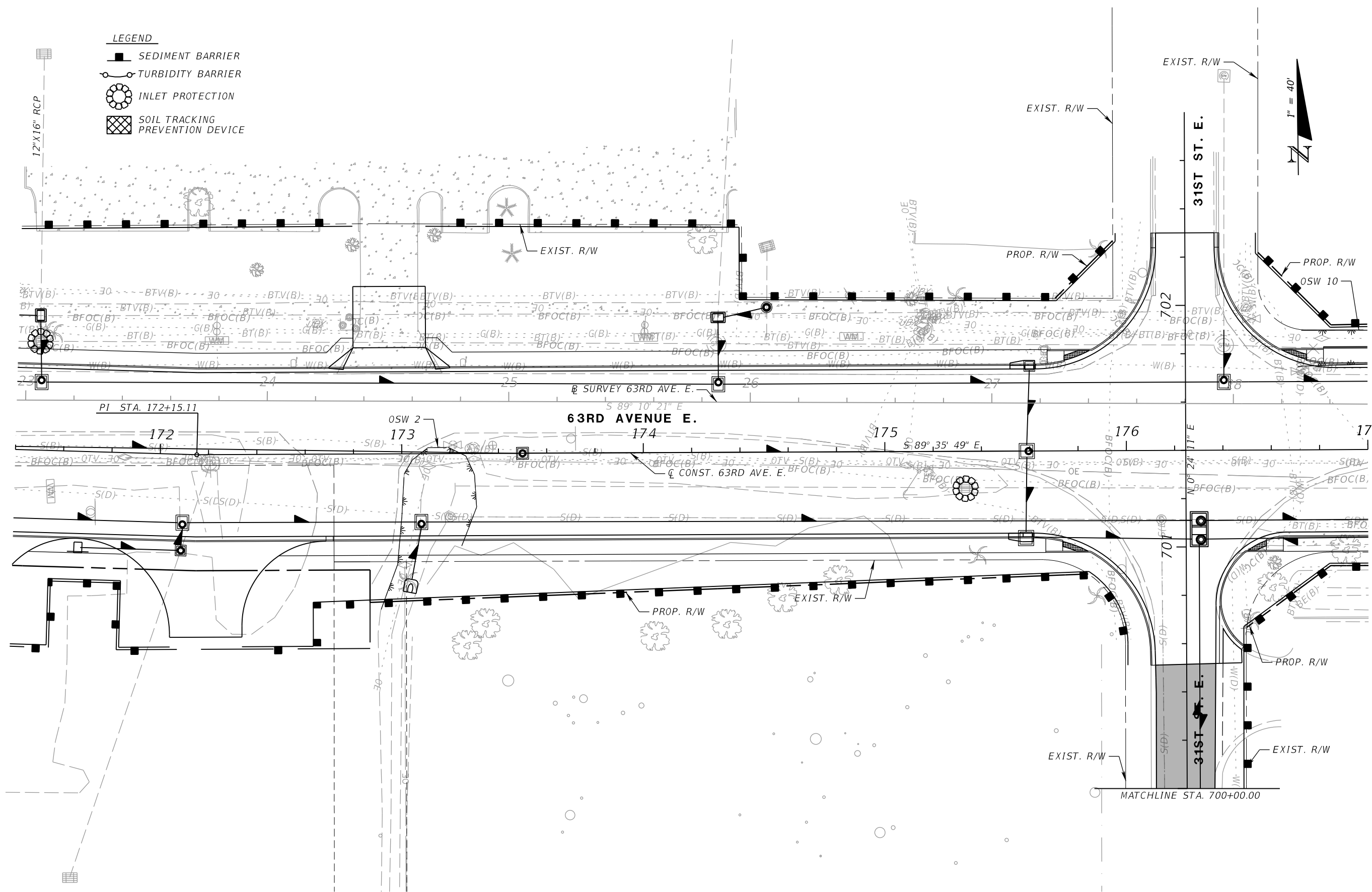
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EROSION CONTROL PLAN (3)

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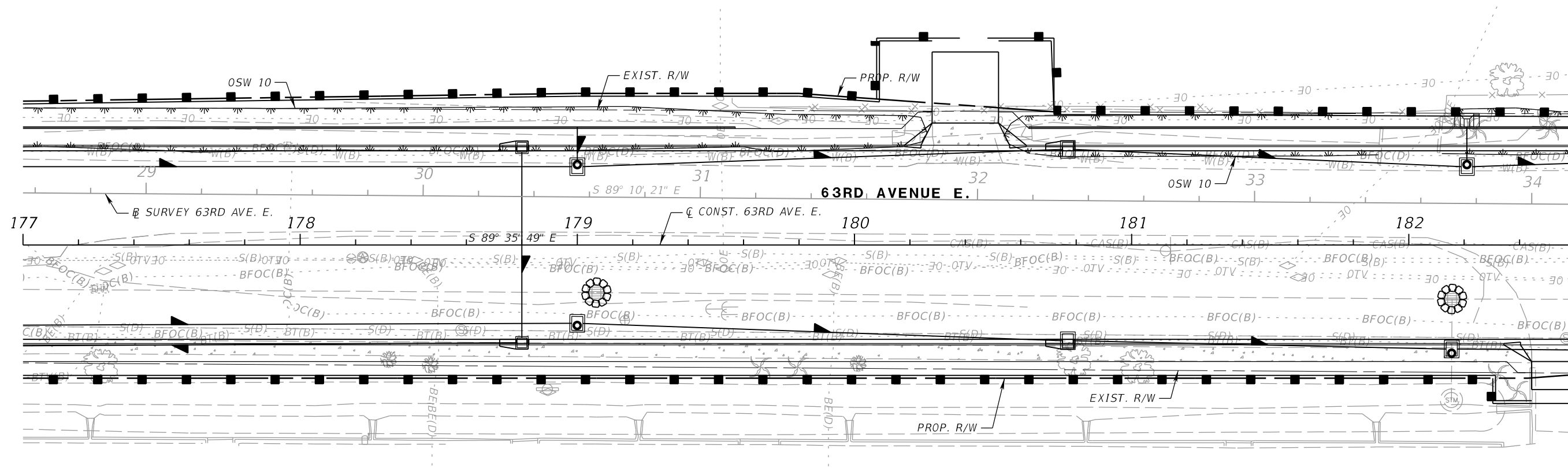
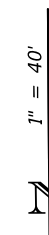
EROSION CONTROL PLAN (4)

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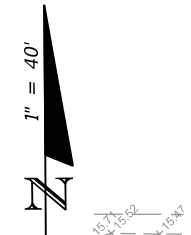
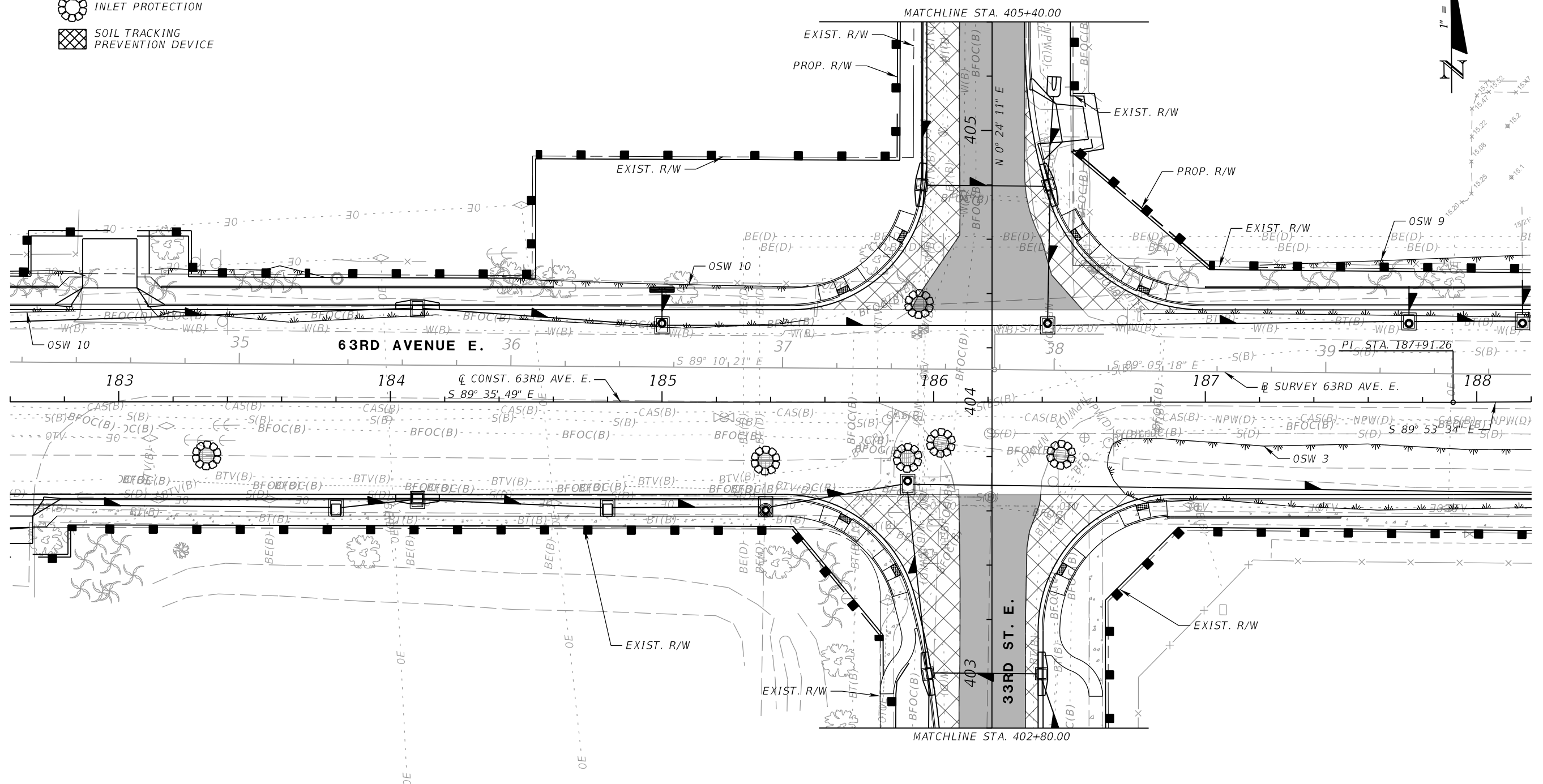
EROSION CONTROL PLAN (5)

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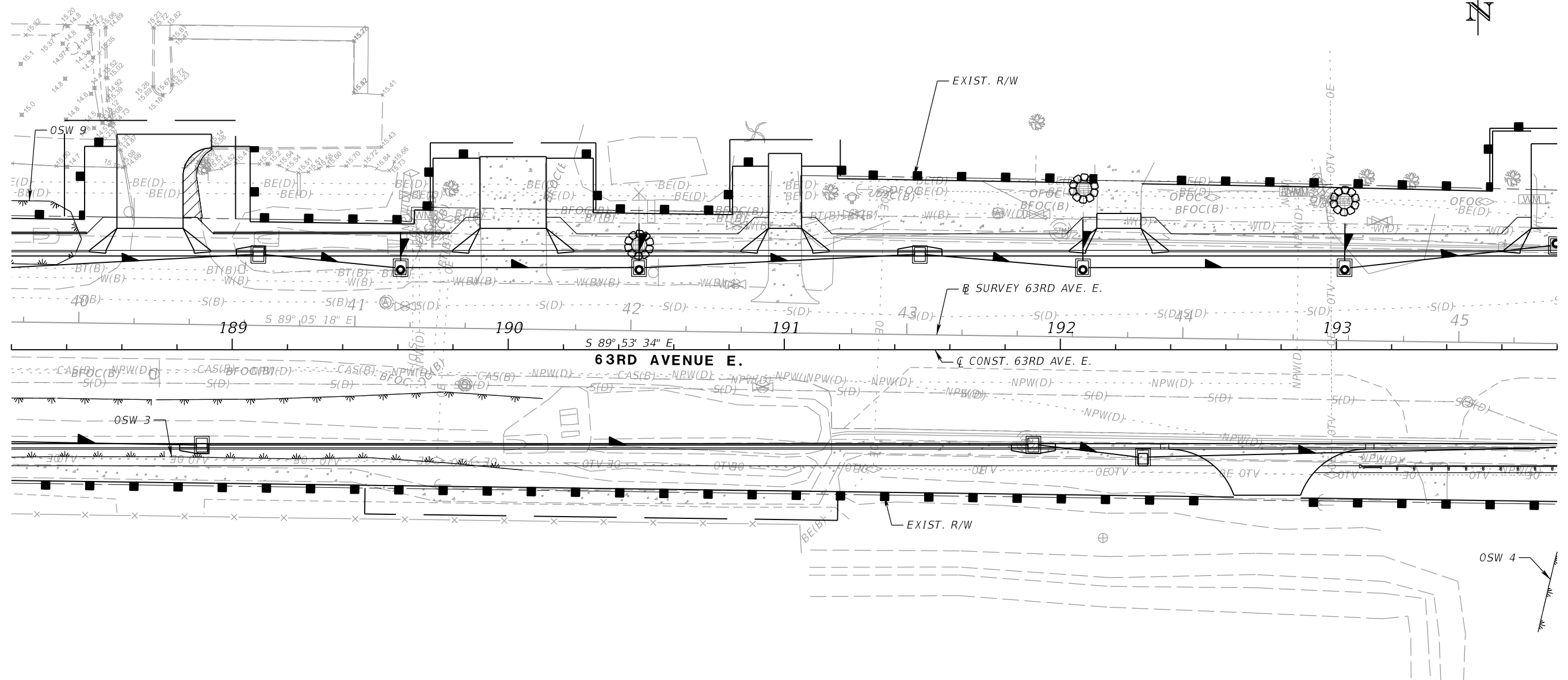
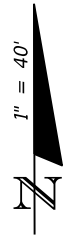
EROSION CONTROL PLAN (6)

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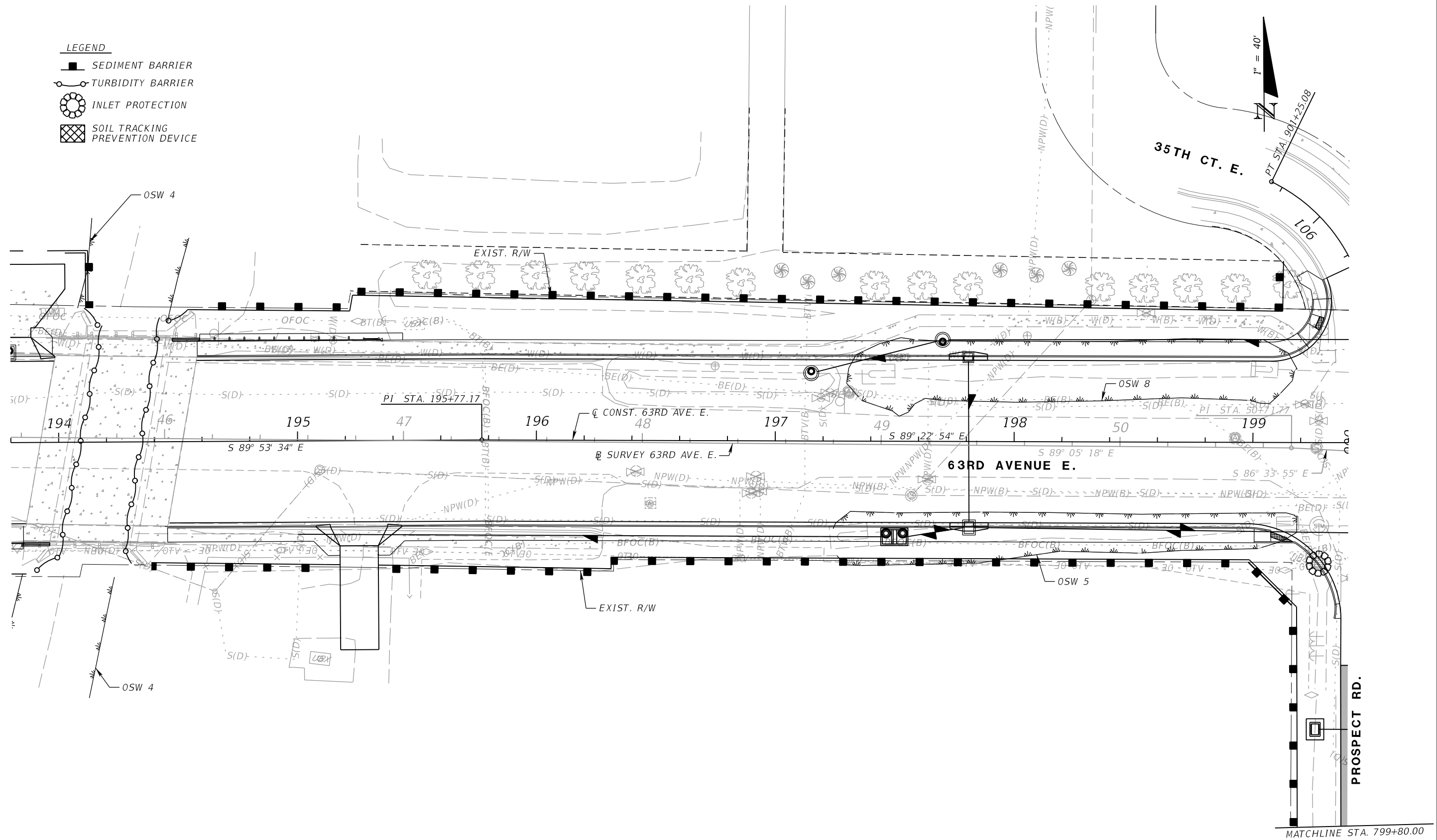
EROSION CONTROL PLAN (7)

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



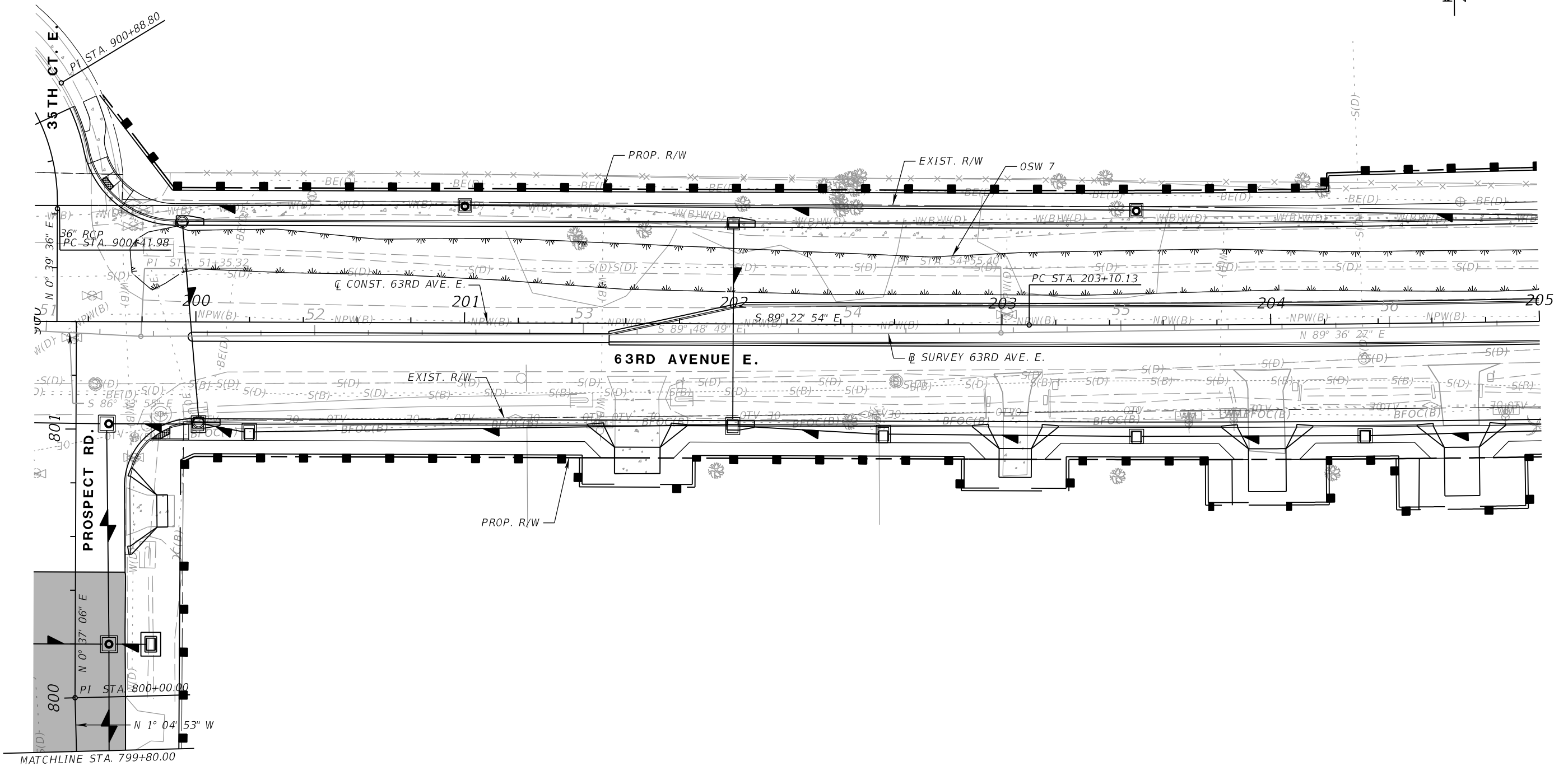
PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

EROSION CONTROL PLAN (8)

SHEET NO.

LEGEND

-  SEDIMENT BARRIER
-  TURBIDITY BARRIER
-  INLET PROTECTION
-  SOIL TRACKING PREVENTION DEVICE



NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	03/2023
			DRAWN BY	ZK	PROJECT NO.
			CHECKED BY	TAP	6107860



RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240







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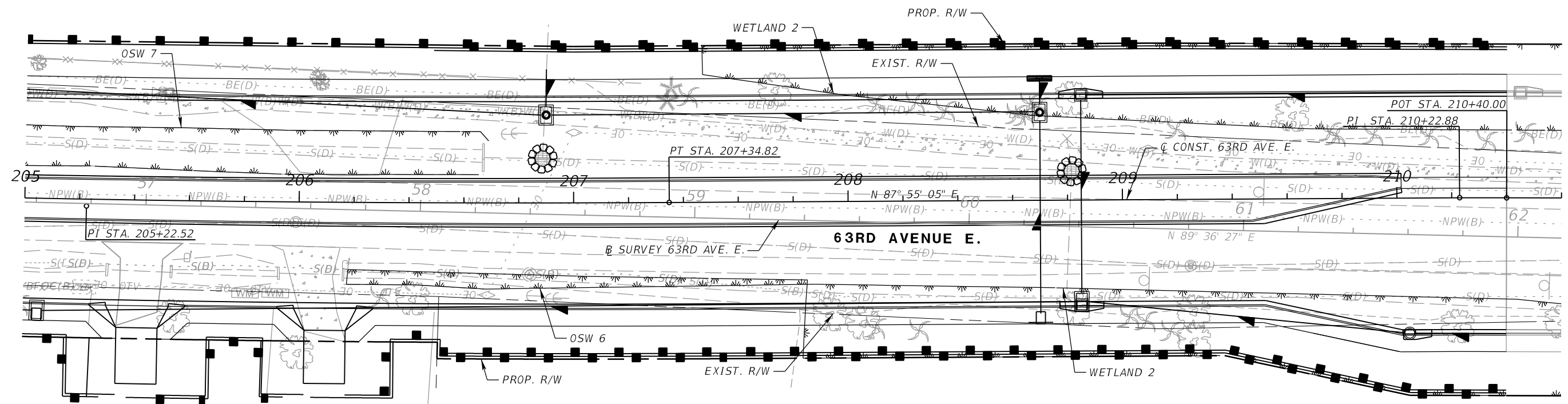
EROSION CONTROL PLAN (9)

SHEET NO.

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LEGEND

-  SEDIMENT BARRIER
-  TURBIDITY BARRIER
-  INLET PROTECTION
-  SOIL TRACKING PREVENTION DEVICE



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





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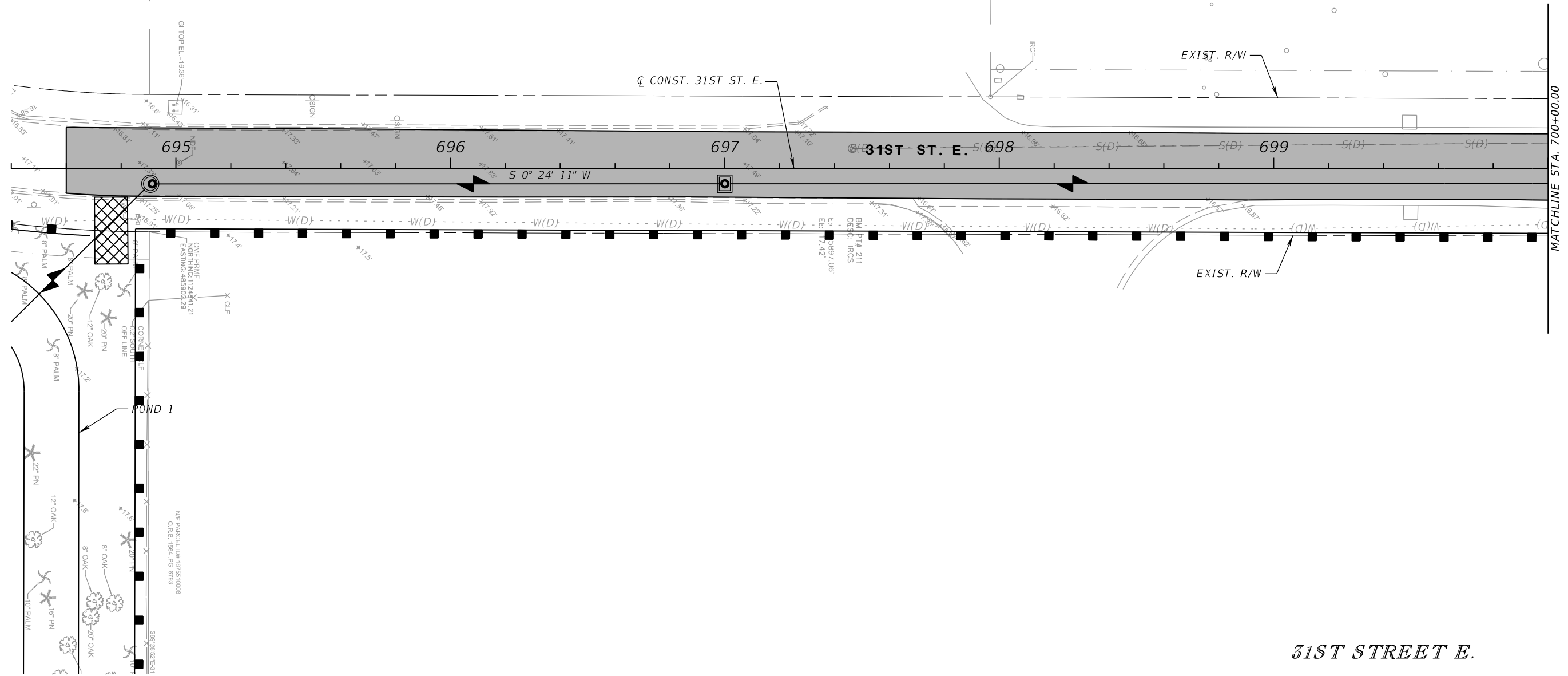
EROSION CONTROL PLAN (10)

SHEET NO.

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- LEGEND**
-  SEDIMENT BARRIER
 -  TURBIDITY BARRIER
 -  INLET PROTECTION
 -  SOIL TRACKING PREVENTION DEVICE

 1" = 40'



31ST STREET E.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860





PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

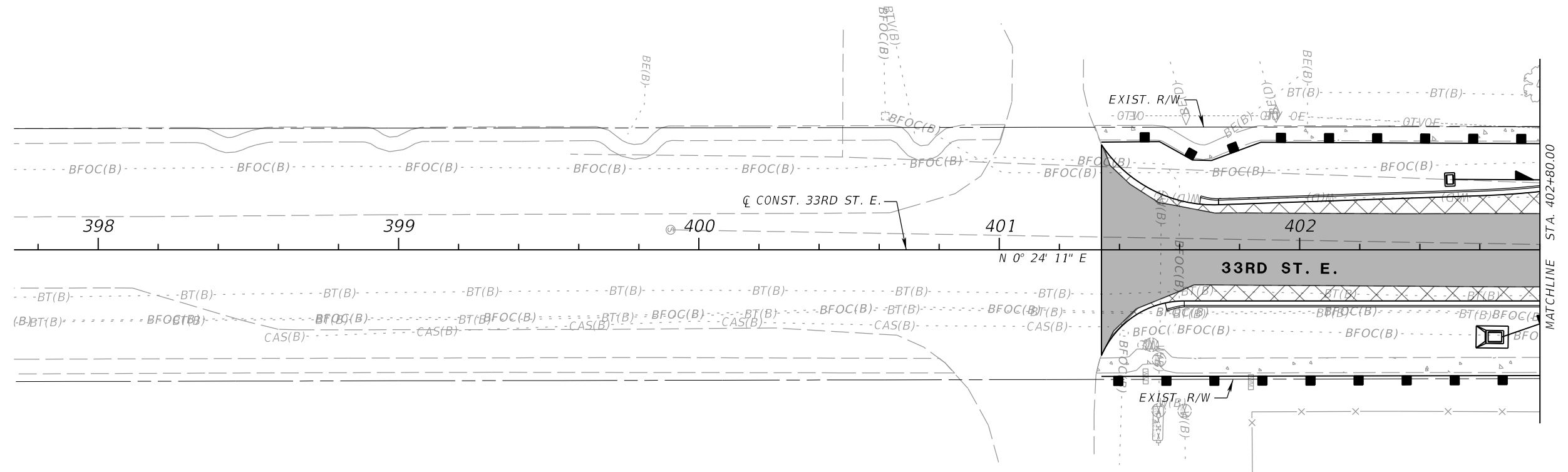
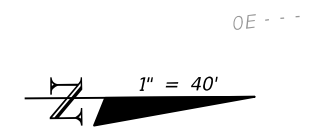
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EROSION CONTROL PLAN (11)

SHEET NO.


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- LEGEND**
-  SEDIMENT BARRIER
 -  TURBIDITY BARRIER
 -  INLET PROTECTION
 -  SOIL TRACKING PREVENTION DEVICE



33RD STREET E.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	03/2023
			DRAWN BY	ZK	PROJECT NO.
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 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240







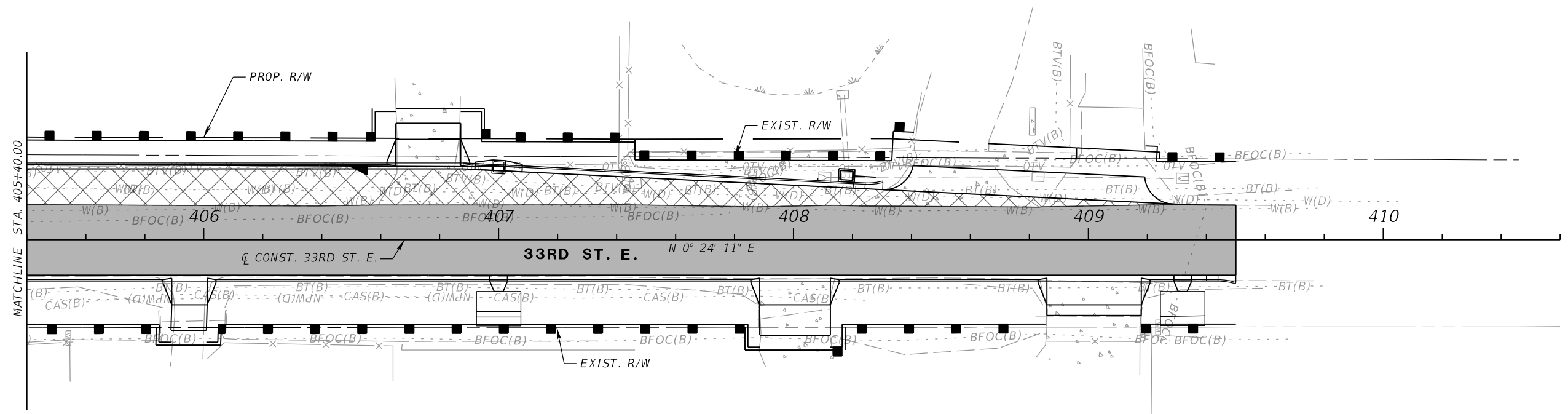
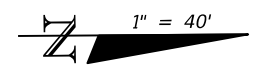
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EROSION CONTROL PLAN (12)

SHEET NO.

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- LEGEND**
-  SEDIMENT BARRIER
 -  TURBIDITY BARRIER
 -  INLET PROTECTION
 -  SOIL TRACKING PREVENTION DEVICE



33RD STREET E.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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PGA

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 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

Manatee County
 FLORIDA

PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

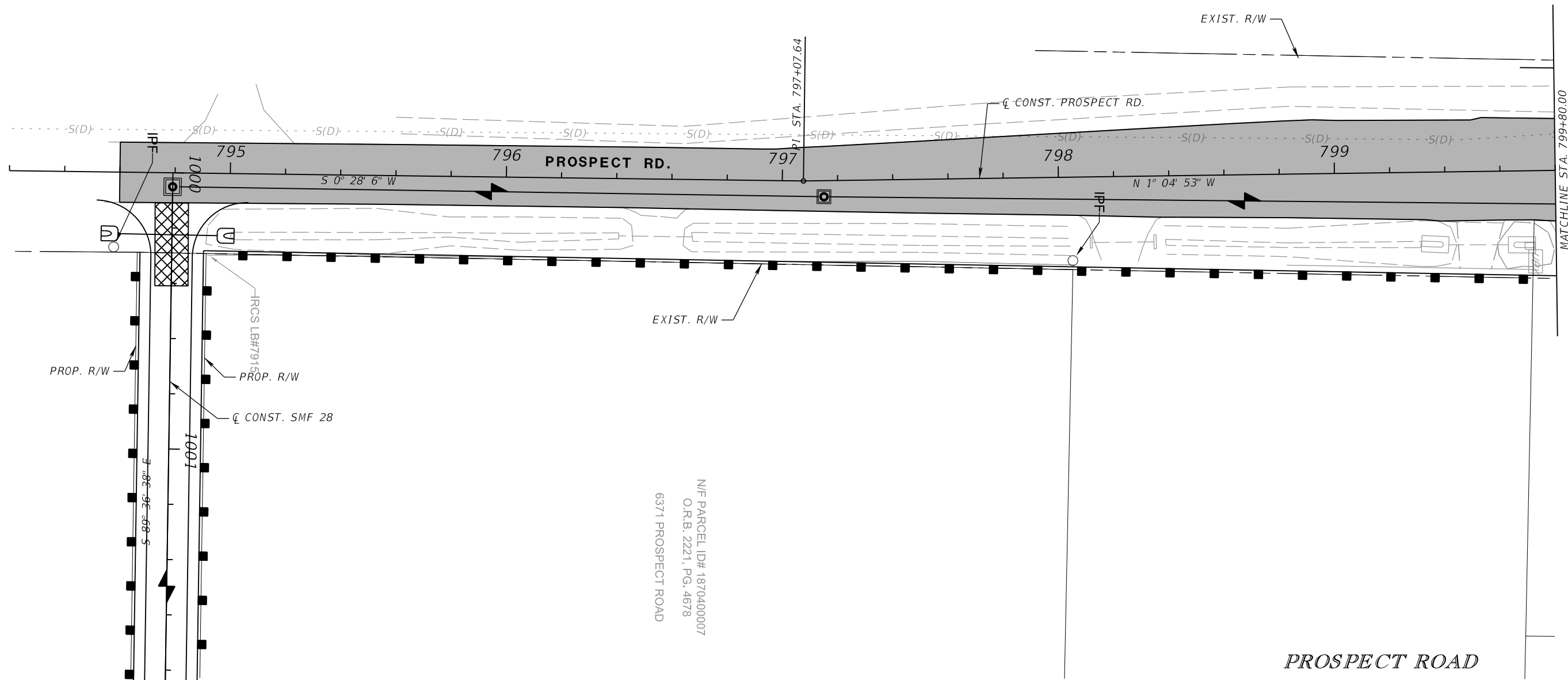
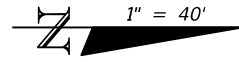
EROSION CONTROL PLAN (13)

SHEET NO.

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LEGEND

-  SEDIMENT BARRIER
-  TURBIDITY BARRIER
-  INLET PROTECTION
-  SOIL TRACKING PREVENTION DEVICE



N/F PARCEL ID# 1870400007
 O.R.B. 2221, PG. 4678
 6371 PROSPECT ROAD

PROSPECT ROAD

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637





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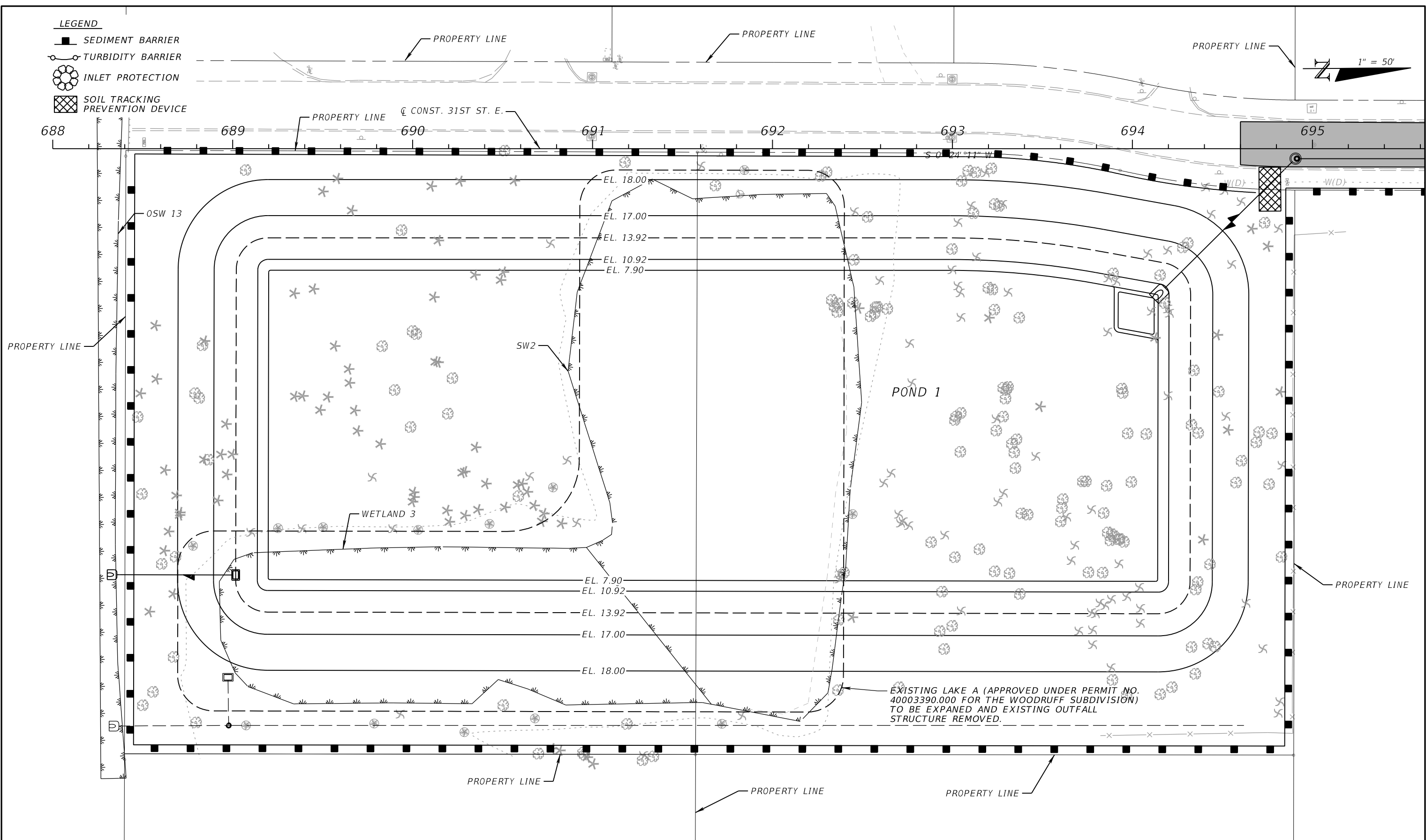
EROSION CONTROL PLAN (14)

SHEET NO.

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LEGEND

-  SEDIMENT BARRIER
-  TURBIDITY BARRIER
-  INLET PROTECTION
-  SOIL TRACKING PREVENTION DEVICE



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NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	RDU	03/2023
			DRAWN BY	ZK	PROJECT NO.
			CHECKED BY	TAP	6107860

PGA





RICHARD D. UPTGRAFF, P.E.
 LICENSE NUMBER 58789
 PATEL, GREENE & ASSOCIATES, LLC
 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

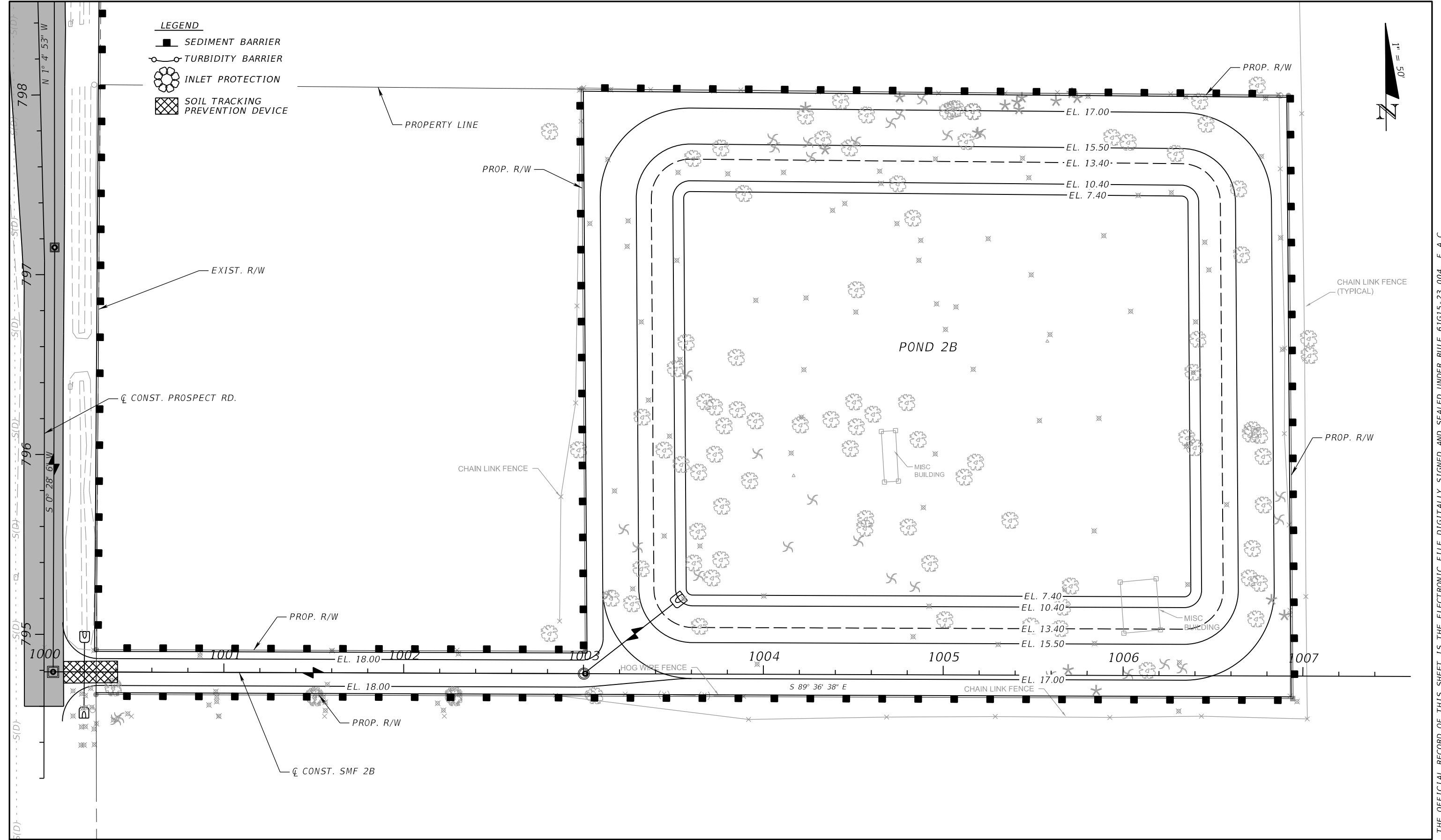
Manatee County
 FLORIDA

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 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

EROSION CONTROL PLAN
POND 1

SHEET NO.

- LEGEND**
-  SEDIMENT BARRIER
 -  TURBIDITY BARRIER
 -  INLET PROTECTION
 -  SOIL TRACKING PREVENTION DEVICE



NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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PC&A

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
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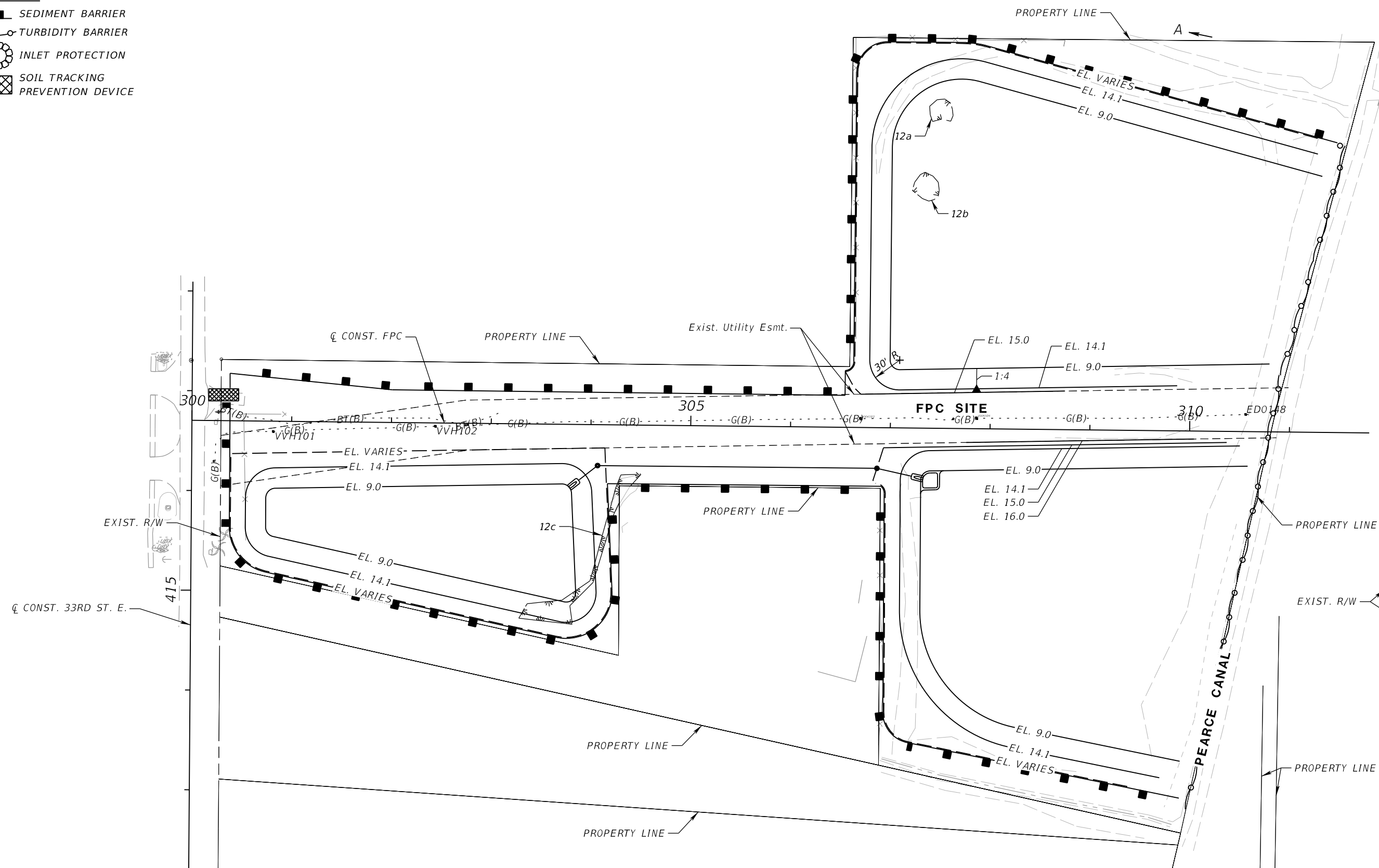
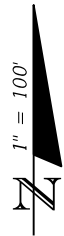
EROSION CONTROL PLAN
POND 2B

SHEET NO.

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LEGEND

-  SEDIMENT BARRIER
-  TURBIDITY BARRIER
-  INLET PROTECTION
-  SOIL TRACKING PREVENTION DEVICE



NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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PC&A

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 7020 PROFESSIONAL PARKWAY E
 SUITE 104
 SARASOTA, FL 34240

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EROSION CONTROL PLAN
FPC SITE



SHEET NO.

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TEMPORARY TRAFFIC CONTROL PLAN GENERAL NOTES:

1. FOR GENERAL TRAFFIC CONTROL REQUIREMENTS AND ADDITIONAL INFORMATION, REFER TO THE STANDARD PLANS INDEX 102-600. ALL CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE STANDARD PLANS 102-600 SERIES UNLESS OTHERWISE NOTED BELOW.
2. THE POSTED SPEED LIMIT FOR 63RD AVE E SHALL BE REDUCED TO 35 MPH PRIOR TO ANY MAINTENANCE OF TRAFFIC OPERATIONS (SEE ADVANCED WARNING DETAIL).
3. THE USE OF PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE REQUIRED AS INDICATED IN THE ADVANCE WARNING DETAILS.
4. DRAINAGE STRUCTURES SHOWN IN THE TTCP PLANS ARE PERMANENT STRUCTURES UNLESS OTHERWISE NOTED.
5. ARROWS ON THE TEMPORARY TCP DENOTE THE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS UNLESS SPECIFICALLY NOTED.
6. MAINTAIN ACCESS TO ALL BUSINESSES. WHEN MORE THAN ONE DRIVEWAY IS PRESENT FOR A BUSINESS, ONLY CLOSE ONE AT A TIME FOR RECONSTRUCTION. COORDINATE TIMES TO RECONSTRUCT DRIVEWAY WHERE ONLY ONE PER BUSINESS OR RESIDENCE EXISTS.
7. NO LANE CLOSURE WITHIN 600 FT OF SIGNALIZED INTERSECTIONS WILL BE ALLOWED BETWEEN 5:30 AM AND 10:00 PM. NO OPEN ROAD LANE CLOSURES WILL BE ALLOWED BETWEEN 6:30 AM AND 7:00 PM.
8. ONLY ONE DETOUR MAY BE IN USE AT A TIME.
9. WHEN DRAINAGE STRUCTURES ARE PLACED FOR PIPE INSTALLATION IN AREAS WHERE PROPOSED GRADE ELEVATIONS ARE NOT YET CONSTRUCTED, COVER STRUCTURES AT AN ELEVATION THAT MEETS DROP OFF REQUIREMENTS PER INDEX 102-600 UNTIL THE STRUCTURE CAN BE EXTENDED TO THE PROPOSED GRADE ELEVATION.
10. USE COMMERCIAL MATERIAL TO MITIGATE DROPOFFS AND MAINTAIN DRIVEWAYS.
11. DETOURS CAN ONLY BE EMPLOYED WHEN THERE IS NOT A LANE CLOSURE ON 63RD.
12. USE WATERBLASTING TO REMOVE ALL THE CONFLICTING STRIPING.

GENERAL NOTES

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	 ADAM S. PEREZ, P.E. LICENSE NUMBER 56066 PATEL, GREENE & ASSOCIATES, LLC 12570 TELECOM DRIVE TEMPLE TERRACE, FL 33637	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	TEMPORARY TRAFFIC CONTROL PLANS (1)	SHEET NO.
			DESIGNED BY	ASP	03/2023				
			DRAWN BY	JM	PROJECT NO.				
			CHECKED BY	JPH	6107860				

TRAFFIC CONTROL PLANS PHASING NOTES

PHASE I - MAINTAIN TRAFFIC ON EXISTING PAVEMENT IN ITS EXISTING CONFIGURATION.

1. INSTALL ADVANCE WARNING SIGNS PER THE ADVANCE WARNING DETAIL. CONSTRUCT TEMPORARY PAVEMENT BETWEEN US 301 AND 29TH ST E AND AT PEARCE CANAL. REMOVE CONFLICTING PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN IN THE PHASE I TTCP PLANS. PLACE TEMPORARY STRIPING AS SHOWN IN THE TTCP PLANS AND SHIFT TRAFFIC.
2. CONSTRUCT THE DRAINAGE PONDS, NEW EB LANES (NO FRICTION COURSE), SIDEWALK AND DRAINAGE FROM EAST OF US 301 TO WEST OF PEARCE CANAL. CONSTRUCT THE SOUTH LEG OF 33RD STREET E (INCLUDING DRAINAGE PIPE CROSSING, NO FRICTION COURSE) USING INDEX 102-603 AND THE SOUTH INTERSECTION LEG DETOUR FOR 33RD STREET E. THIS DETOUR SHALL BE NO LONGER THAN 5 CONSECUTIVE WORKING DAYS. CONSTRUCT DRAINAGE ON THE SOUTH SIDE OF 63RD STREET FROM PEARCE CANAL TO THE END OF PROJECT, INCLUDING LATERALS ACROSS THE EXISTING ROADWAY USING INDEX 102-603 AS SHOWN IN THE TTCP PLANS. CONSTRUCT DRAINAGE ALONG PROSPECT ROAD USING THE PROSPECT ROAD DETOUR. THIS DETOUR SHALL BE NO LONGER THAN 7 CONSECUTIVE WORKING DAYS.
3. CONSTRUCT THE NEW WB LANES (NO FRICTION COURSE), SIDEWALK AND DRAINAGE FROM EAST OF PEARCE CANAL TO WEST OF TUTTLE AVENUE. USE THE 35TH COURT E DETOUR TO CONSTRUCT THE CONNECTION WITH 63RD AVENUE (NO FRICTION COURSE). THIS DETOUR SHALL BE NO LONGER THAN 5 CONSECUTIVE WORKING DAYS.
4. USE INDEX 102-603 FOR PIPE INSTALLATION ON 31ST ST. DO NOT CONSTRUCT MORE PIPE THAN WHAT WILL ALLOW RESTORATION OF DROP OFFS IN ONE WORK PERIOD PER INDEX 102-600.

PHASE II - CONSTRUCTION OF REMAINING ROADWAY (EXCEPT MEDIANS), SIDEWALK AND DRAINAGE.

1. REMOVE CONFLICTING PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN IN THE PHASE II TTCP PLANS. SHIFT TRAFFIC AS SHOWN IN THE PHASE II TTCP PLANS.
2. CONSTRUCT THE REMAINING NEW EASTBOUND LANES (NO FRICTION COURSE) FROM EAST OF PEARCE CANAL TO WEST OF TUTTLE AVENUE. CONSTRUCT THE PROSPECT ROAD CONNECTION (NO FRICTION COURSE) TO 63RD AVENUE USING THE PROSPECT ROAD DETOUR AND INDEX 102-603. THIS DETOUR SHALL BE NO LONGER THAN 5 CONSECUTIVE WORKING DAYS.
3. USE THE 33RD STREET E NORTH INTERSECTION LEG DETOUR TO CONSTRUCT THE DRAINAGE ON 33RD STREET E AS SHOWN IN THE TTCP PLANS. THIS DETOUR SHALL BE NO LONGER THAN 5 CONSECUTIVE WORKING DAYS.
4. CONSTRUCT THE REMAINING WB LANES (NO FRICTION COURSE) FROM EAST OF US 301 TO WEST OF PEARCE CANAL. CONSTRUCT THE 33RD STREET E ROADWAY AND WIDENING (NO FRICTION COURSE) USING INDEX 102-603 AND THE 33RD STREET E NORTH INTERSECTION LEG DETOUR. THIS DETOUR SHALL BE NO LONGER THAN 14 CONSECUTIVE WORKING DAYS.
5. USE THE TTCP DETOURS TO CONSTRUCT CONNECTIONS TO 63RD AVENUE FOR 28TH ST E, 29TH ST E, AND 31ST ST E (NO FRICTION COURSE AT ANY LOCATION). THESE DETOURS SHALL BE NO LONGER THAN 5 CONSECUTIVE WORKING DAYS EACH.

PHASE III - CONSTRUCT THE MEDIAN



1. REMOVE CONFLICTING PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN IN THE TTCP PLANS. SHIFT TRAFFIC TO ONE LANE IN THE EASTBOUND DIRECTION AND ONE LANE IN THE WESTBOUND DIRECTION ON THE NEW PAVEMENT AND CONSTRUCT THE MEDIAN IMPROVEMENTS. DO NOT CLOSE MORE THAN ONE MEDIAN OPENING AT A TIME TO CONSTRUCT FINAL MEDIAN IMPROVEMENTS.

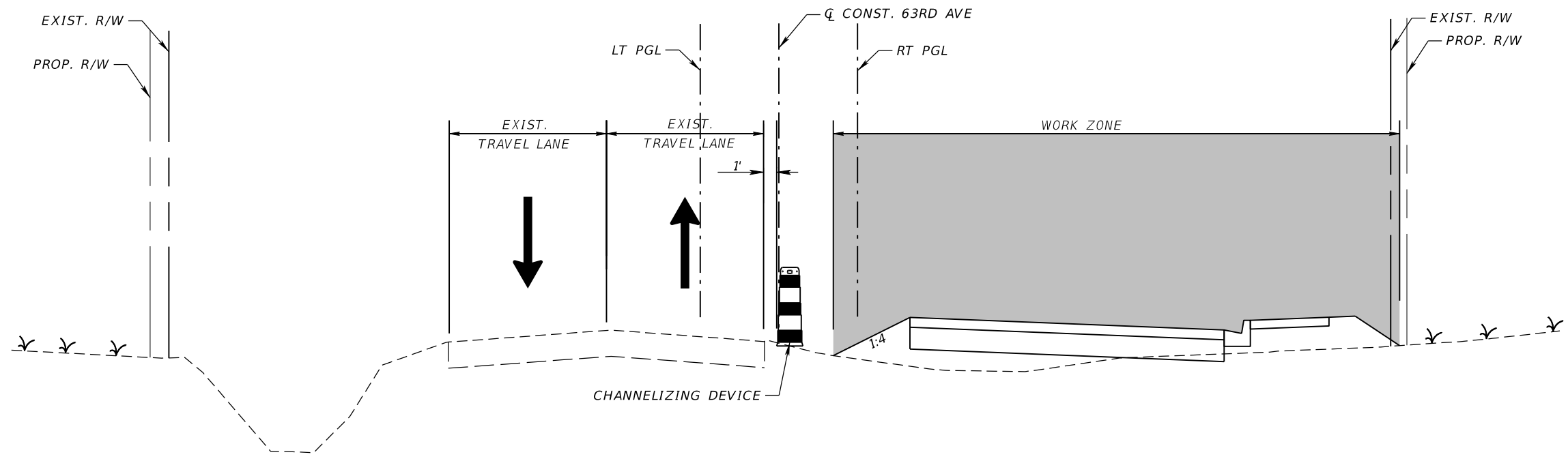
PHASE IV - CONSTRUCT FRICTION COURSE AND FINAL PAVEMENT MARKINGS

1. MILL AND RESURFACE FROM US301 TO BEGIN PROJECT, 31ST STREET AND PROSPECT ROAD USING INDEX 102-603 AND 102-613. PLACE FRICTION COURSE AND FINAL PAVEMENT MARKINGS. OPEN ALL LANES TO TRAFFIC IN FINAL CONFIGURATION.

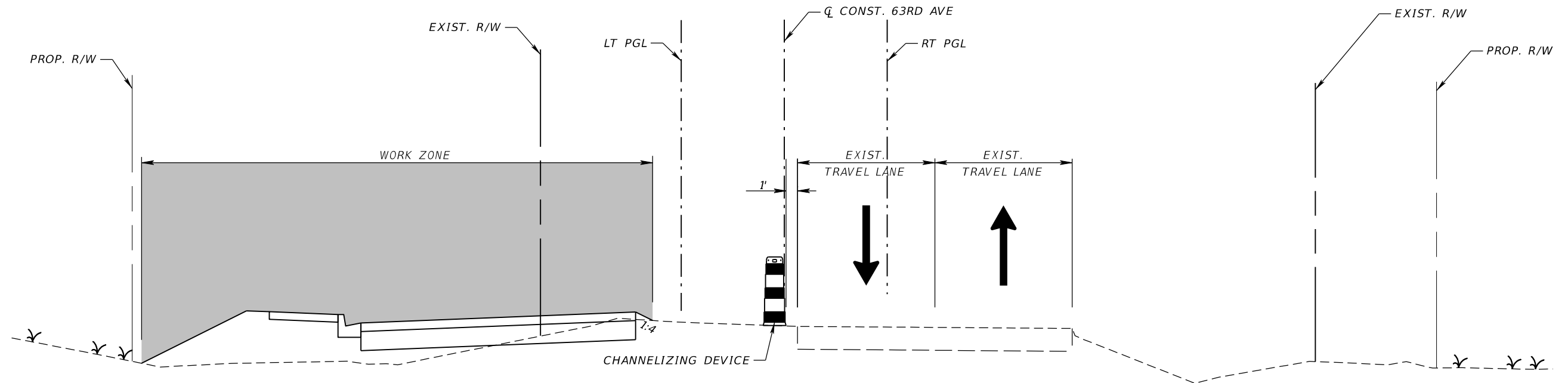
PHASING NOTES

TEMPORARY TRAFFIC CONTROL PLANS (2)

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	 ADAM S. PEREZ, P.E. LICENSE NUMBER 56066 PATEL, GREENE & ASSOCIATES, LLC 12570 TELECOM DRIVE TEMPLE TERRACE, FL 33637	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	SHEET NO.
			DESIGNED BY	ASP	03/2023			
			DRAWN BY	JM	PROJECT NO.			
			CHECKED BY	JPH	6107860			



PHASE I
FROM EAST OF US 301 TO WEST OF PEARCE CANAL.



PHASE I
FROM EAST OF PEARCE CANAL TO WEST OF TUTTLE AVENUE.

PHASE I

TYPICAL SECTION

LEGEND	
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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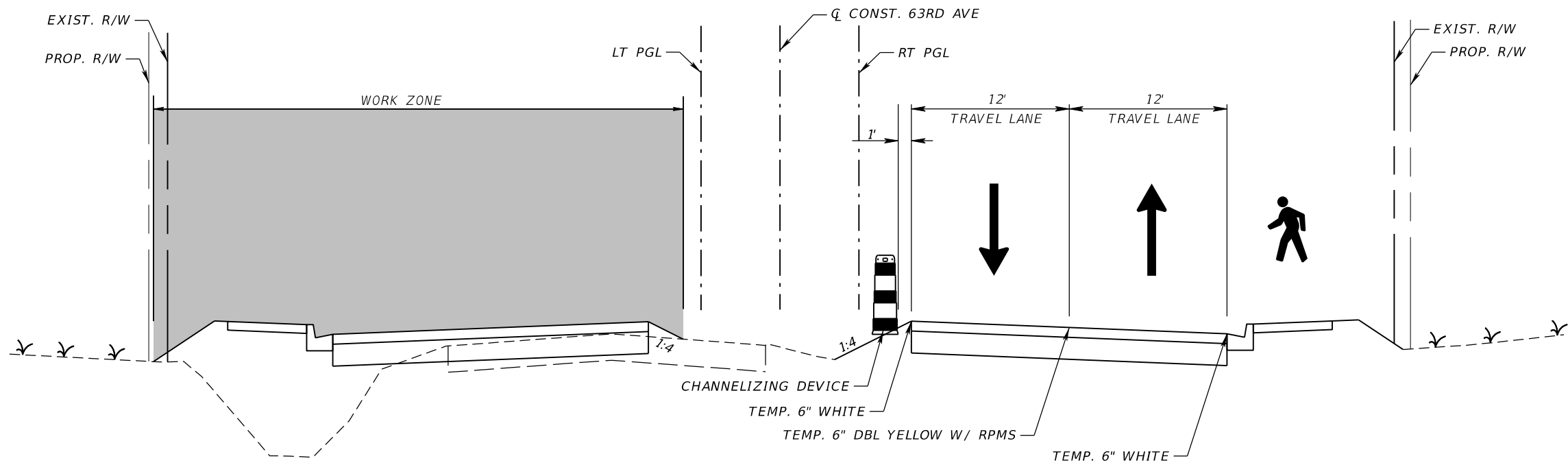
PGA
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 PATEL, GREENE & ASSOCIATES, LLC
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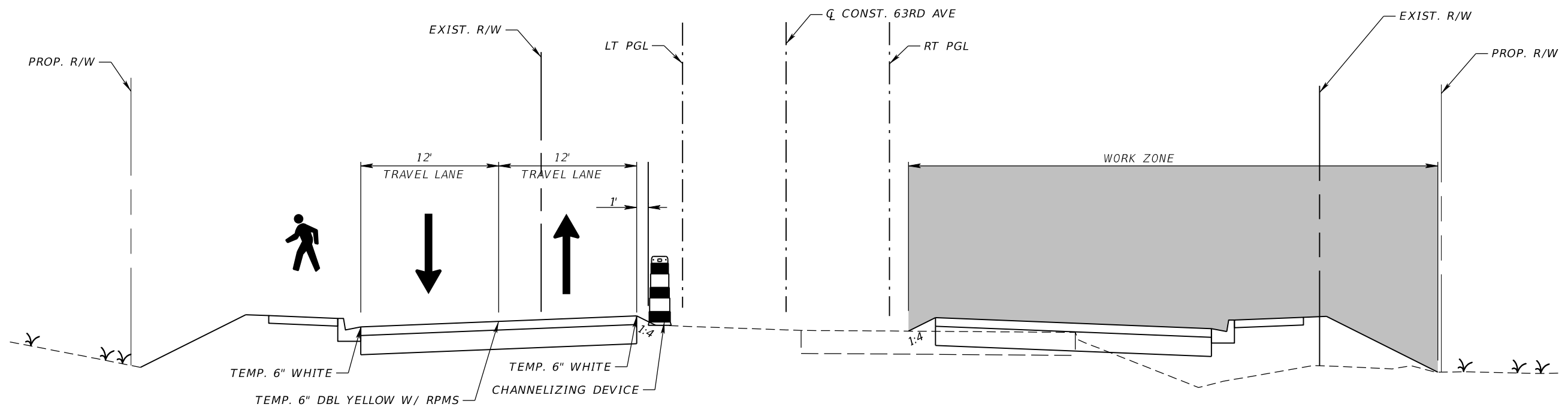
TEMPORARY TRAFFIC CONTROL PLANS (3)

SHEET NO.

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PHASE II
FROM EAST OF US 301 TO WEST OF PEARCE CANAL.



PHASE II
FROM EAST OF PEARCE CANAL TO WEST OF TUTTLE AVENUE.

PHASE II

TYPICAL SECTION

LEGEND	
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE

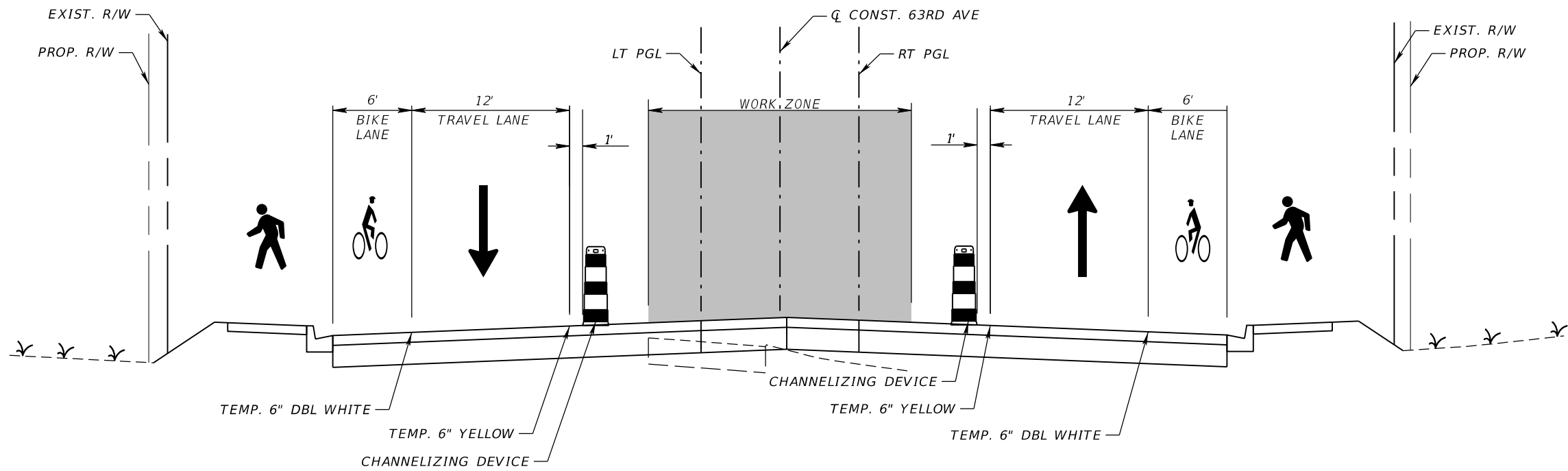
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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PGA
ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

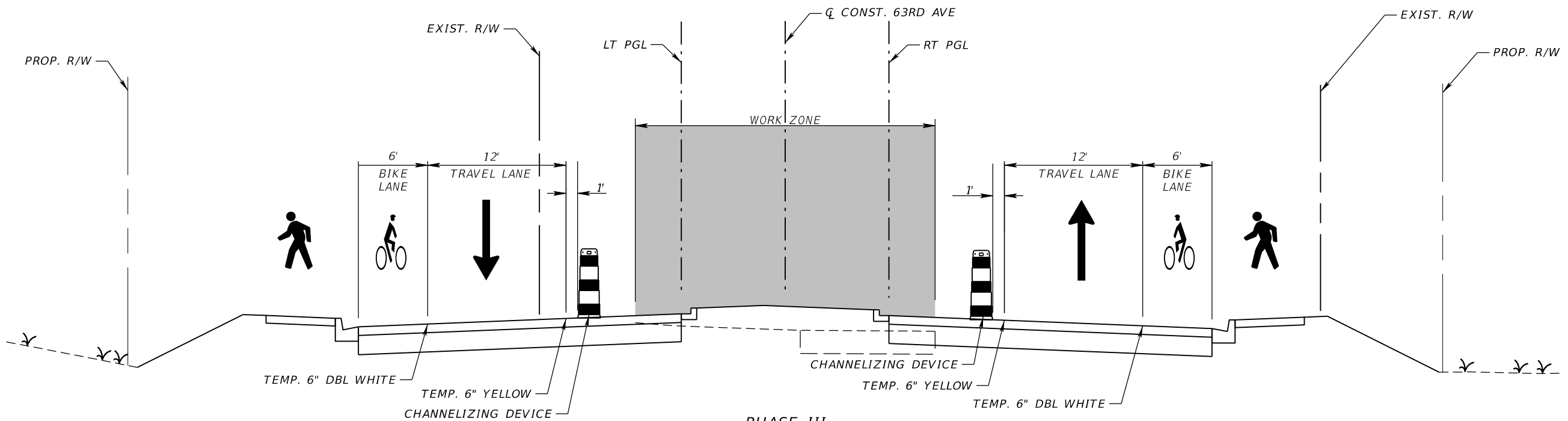
Manatee County
FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

**TEMPORARY TRAFFIC
CONTROL PLANS (4)**

SHEET
NO.



PHASE III
FROM EAST OF US 301 TO PROSPECT ROAD



PHASE III
FROM PROSPECT ROAD TO WEST OF TUTTLE AVENUE.

PHASE III

TYPICAL SECTION

LEGEND	
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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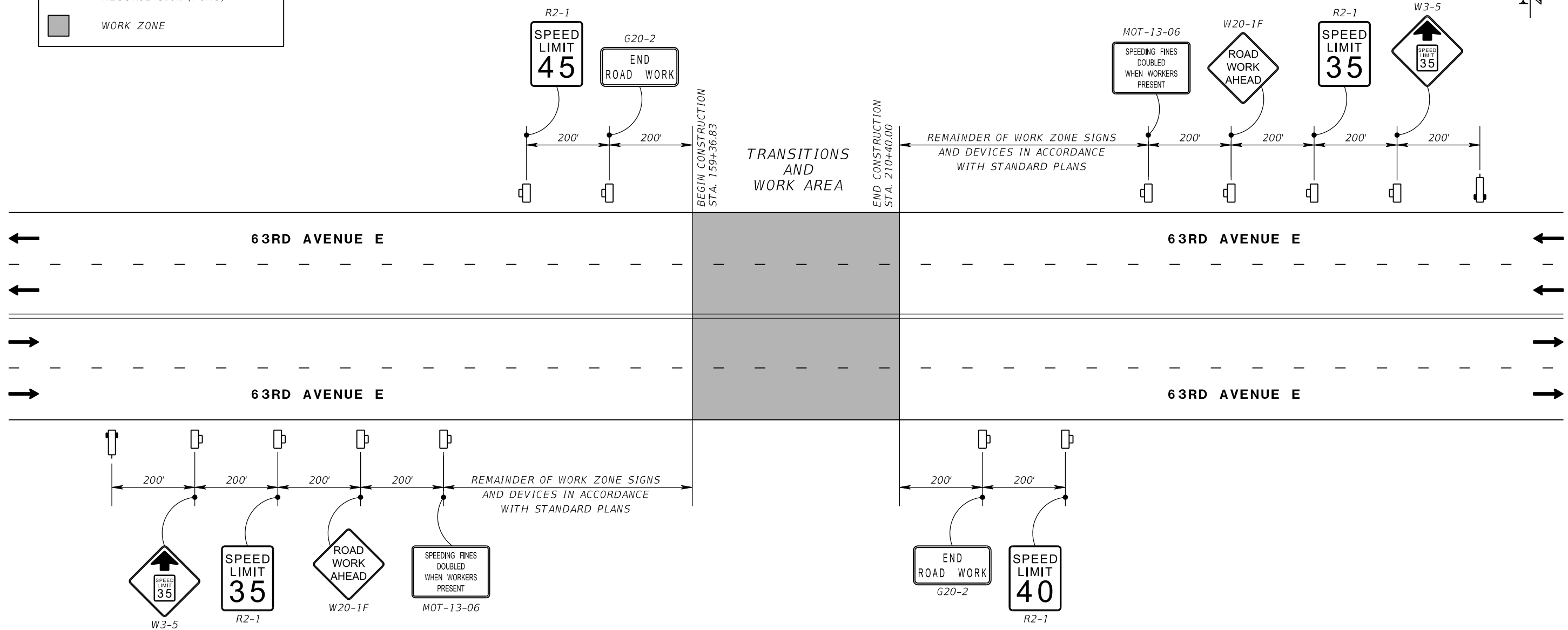
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

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 Bradenton, FL 34208

TEMPORARY TRAFFIC
 CONTROL PLANS (5)

SHEET NO.

LEGEND	
	DIRECTION OF TRAFFIC
	WORK ZONE SIGN
	PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
	WORK ZONE



PCMS DISPLAY NO. 1
USE 14 DAYS PRIOR TO CONSTRUCTION
ALONG 63RD AVENUE E

ROAD WORK BEGINS	(DATE) EXPECT DELAYS
------------------------	----------------------------

PCMS DISPLAY NO. 2
USE DURING LANE CLOSURES
ALONG 63RD AVENUE E

LANE CLOSURE AHEAD	EXPECT DELAYS
--------------------------	------------------

PCMS DISPLAY NO. 3
USE 7 DAYS IN ADVANCE
TCP PHASING SHIFT

NEW TRAFFIC PATTERN	MM/DD
---------------------------	-------

PROVIDE PORTABLE CHANGEABLE MESSAGE SIGN (PCMS), AS SHOWN IN ADVANCE SIGNING LAYOUT DETAIL FOR THE DURATION OF CONSTRUCTION. THE PURPOSE OF THESE SIGNS IS TO PROVIDE ADVANCE NOTIFICATION OF UPCOMING LANE CLOSURES, TEMP. SIGNALS AND NEW TRAFFIC PATTERNS.

DURING MAINLINE LANE CLOSURES, PCMS SHALL NOT BE PLACED MORE THAN 24 HOURS IN ADVANCE OF THE LANE CLOSURE AND SHALL BE REMOVED WITHIN 24 HOURS OF REOPENING THE ROAD.

**63RD AVENUE E
ADVANCE WARNING DETAIL**

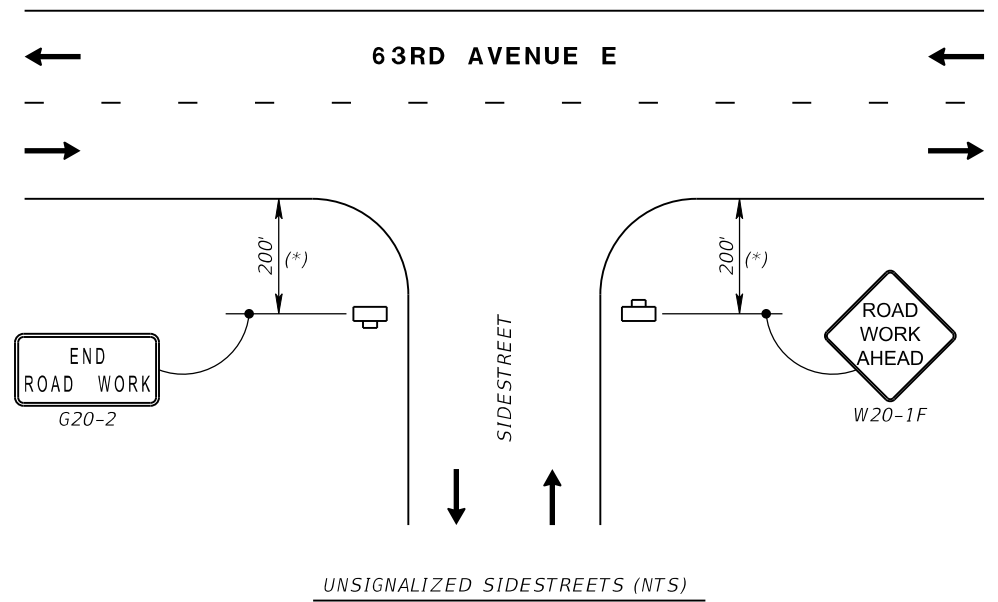
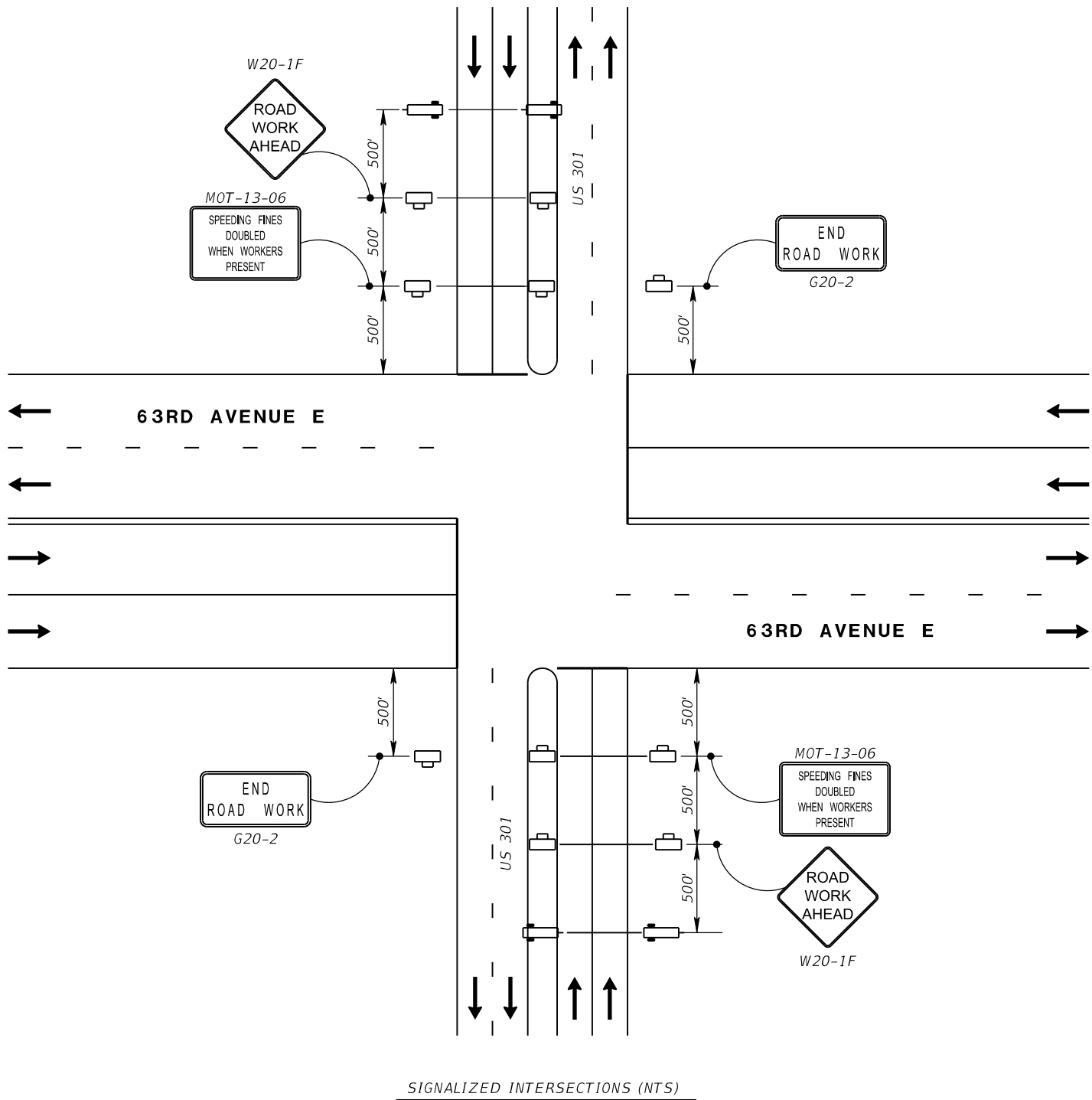
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

**TEMPORARY TRAFFIC
CONTROL PLANS (6)**

SHEET NO.

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LEGEND	
	DIRECTION OF TRAFFIC
	WORK ZONE SIGN
	PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)



- UNSIGNALIZED SIDESTREETS (NTS)
- 28TH ST E.
 - 29TH ST E.
 - 31ST ST E.
 - 33RD ST E. *(PLACE SIGNS 500' BEYOND BEGIN/END CONSTRUCTION LIMITS)
 - PROSPECT RD.
 - 35TH CT E.
 - TUTTLE AVE.
 - 39TH ST E.

PCMS DISPLAY NO. 1 USE 14 DAYS PRIOR TO CONSTRUCTION ALONG SIGNALIZED SIDESTREETS		PCMS DISPLAY NO. 2 USE DURING LANE CLOSURES ALONG SIGNALIZED SIDESTREETS		PCMS DISPLAY NO. 3 USE 7 DAYS IN ADVANCE TCP PHASING SHIFT	
ROAD WORK BEGINS	(DATE) EXPECT DELAYS	LANE CLOSURE AHEAD	EXPECT DELAYS	NEW TRAFFIC PATTERN	MMM/DD

PROVIDE PORTABLE CHANGEABLE MESSAGE SIGN (PCMS), AS SHOWN IN ADVANCE SIGNING LAYOUT DETAIL FOR THE DURATION OF CONSTRUCTION. THE PURPOSE OF THESE SIGNS IS TO PROVIDE ADVANCE NOTIFICATION OF UPCOMING LANE CLOSURES, TEMP. SIGNALS AND NEW TRAFFIC PATTERNS.

DURING MAINLINE LANE CLOSURES, PCMS SHALL NOT BE PLACED MORE THAN 24 HOURS IN ADVANCE OF THE LANE CLOSURE AND SHALL BE REMOVED WITHIN 24 HOURS OF REOPENING THE ROAD.

**SIDESTREET ADVANCE
WARNING DETAIL**

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

PGA ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

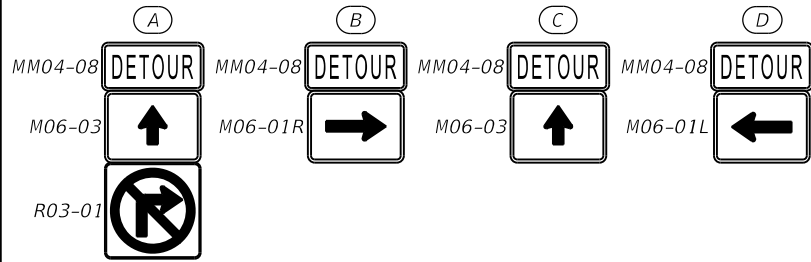
Manatee County PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

**TEMPORARY TRAFFIC
CONTROL PLANS (7)**

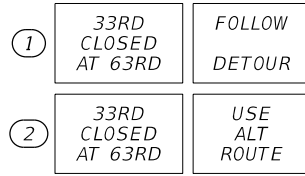
SHEET NO.

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

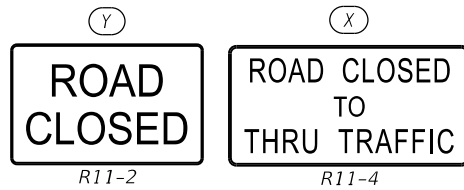
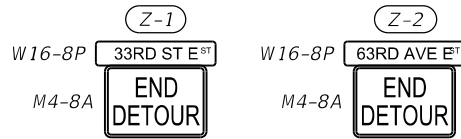
WORK ZONE SIGN SCHEMES



PCMS MESSAGES
(DURING CLOSURE)



PCMS MESSAGES
(14 DAYS PRIOR TO CLOSURE)



LEGEND	
	WORK ZONE SIGN
	PCMS
	DETOUR ROUTE
	TYPE III BARRICADE
	WORK ZONE

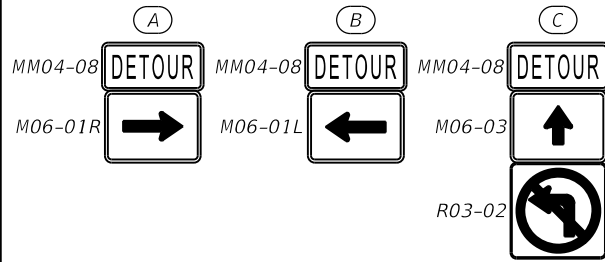


DETOUR 33RD ST E
SOUTH INTERSECTION LEG

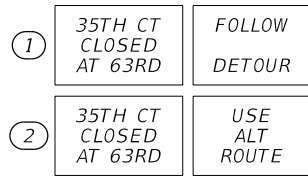
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	<p>ADAM S. PEREZ, P.E. LICENSE NUMBER 56066 PATEL, GREENE & ASSOCIATES, LLC 12570 TELECOM DRIVE TEMPLE TERRACE, FL 33637</p>	<p>PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208</p>	<p>TEMPORARY TRAFFIC CONTROL PLANS (8)</p>	SHEET NO.

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

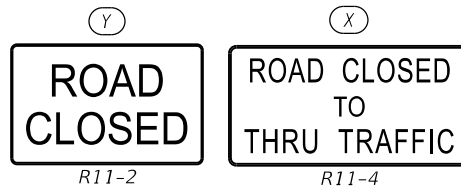
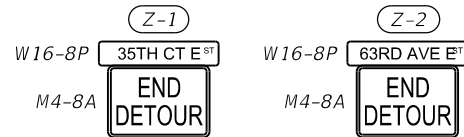
WORK ZONE SIGN SCHEMES



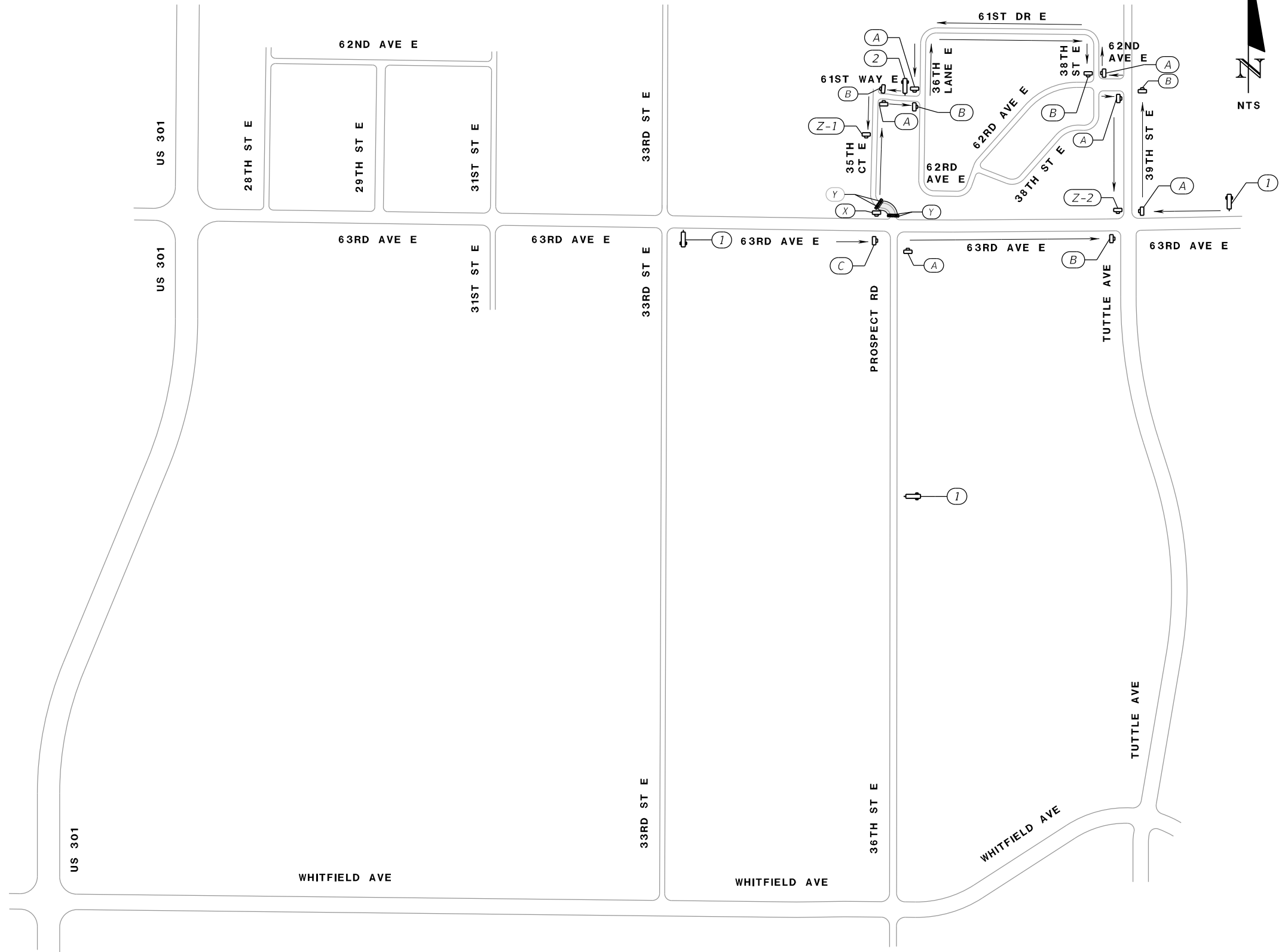
PCMS MESSAGES (DURING CLOSURE)



PCMS MESSAGES (14 DAYS PRIOR TO CLOSURE)



LEGEND	
	WORK ZONE SIGN
	PCMS
	DETOUR ROUTE
	TYPE III BARRICADE
	WORK ZONE



DETOUR 35TH CT E

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

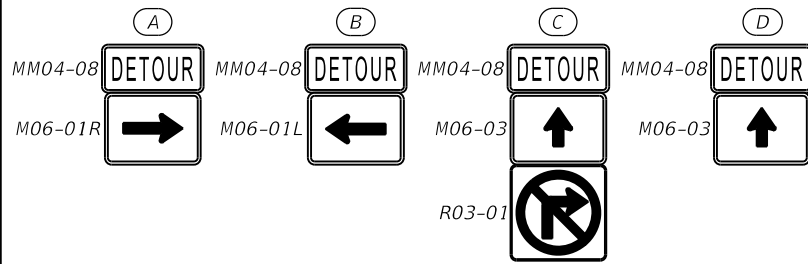
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

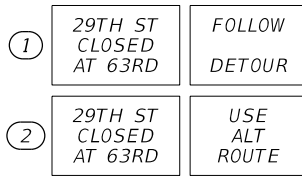
TEMPORARY TRAFFIC CONTROL PLANS (9)

SHEET NO.

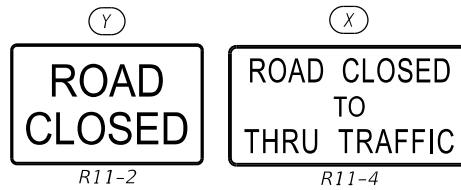
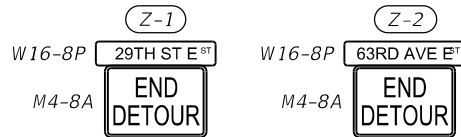
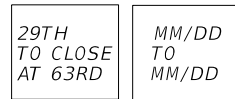
WORK ZONE SIGN SCHEMES



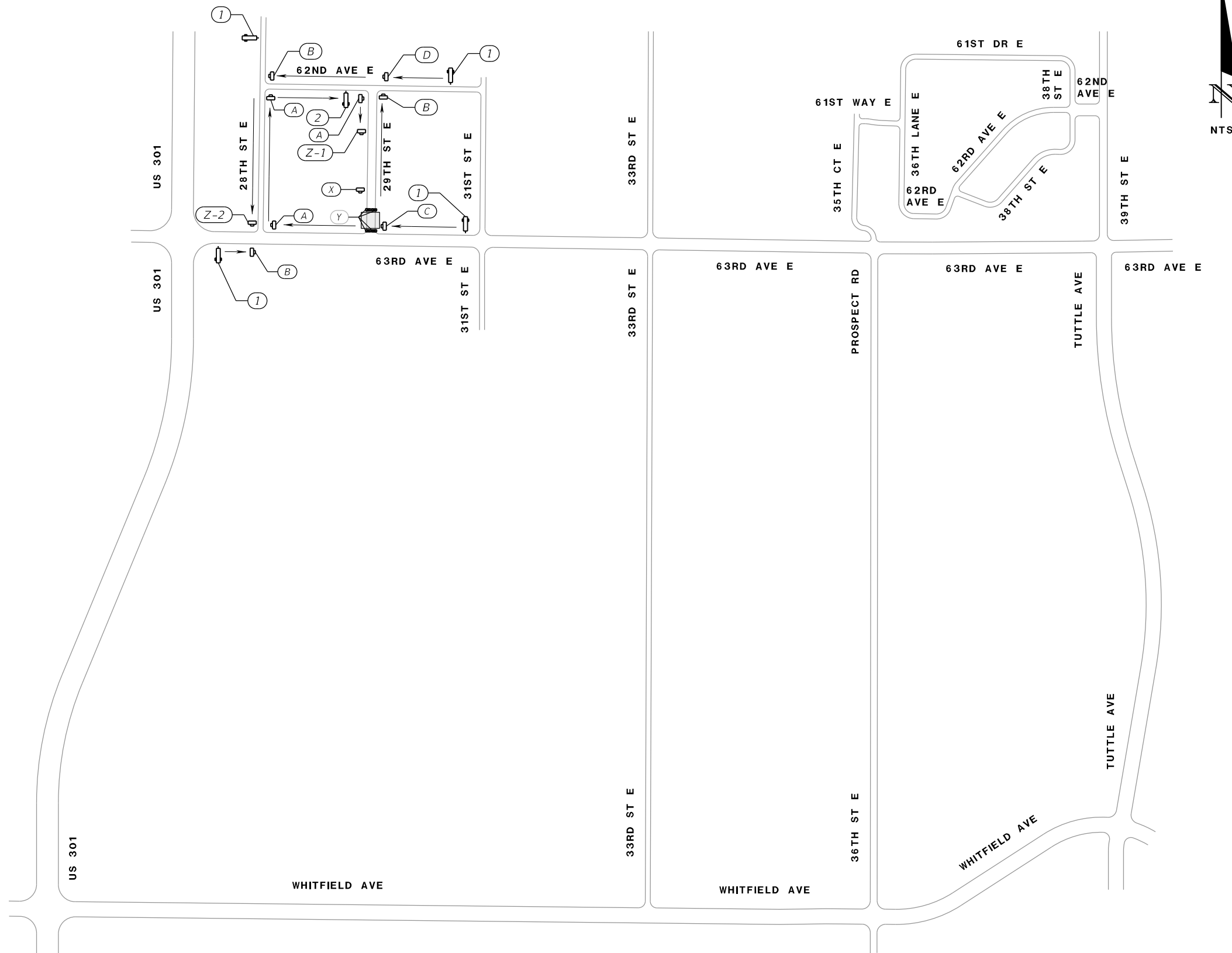
PCMS MESSAGES (DURING CLOSURE)



PCMS MESSAGES (14 DAYS PRIOR TO CLOSURE)



LEGEND	
	WORK ZONE SIGN
	PCMS
	DETOUR ROUTE
	TYPE III BARRICADE
	WORK ZONE



DETOUR 29TH ST E

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

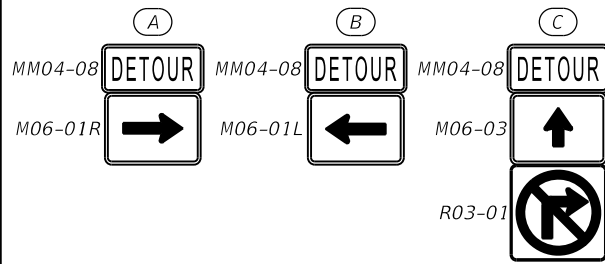
Manatee County PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

TEMPORARY TRAFFIC CONTROL PLANS (11)

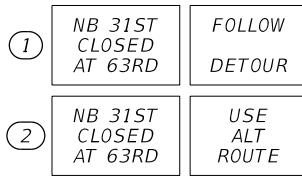
SHEET NO.

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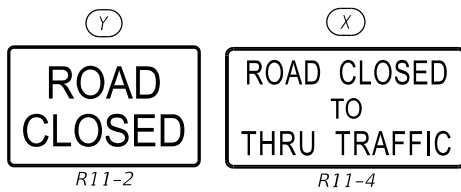
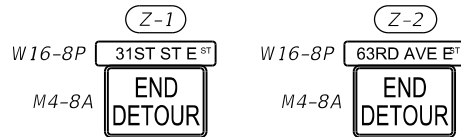
WORK ZONE SIGN SCHEMES



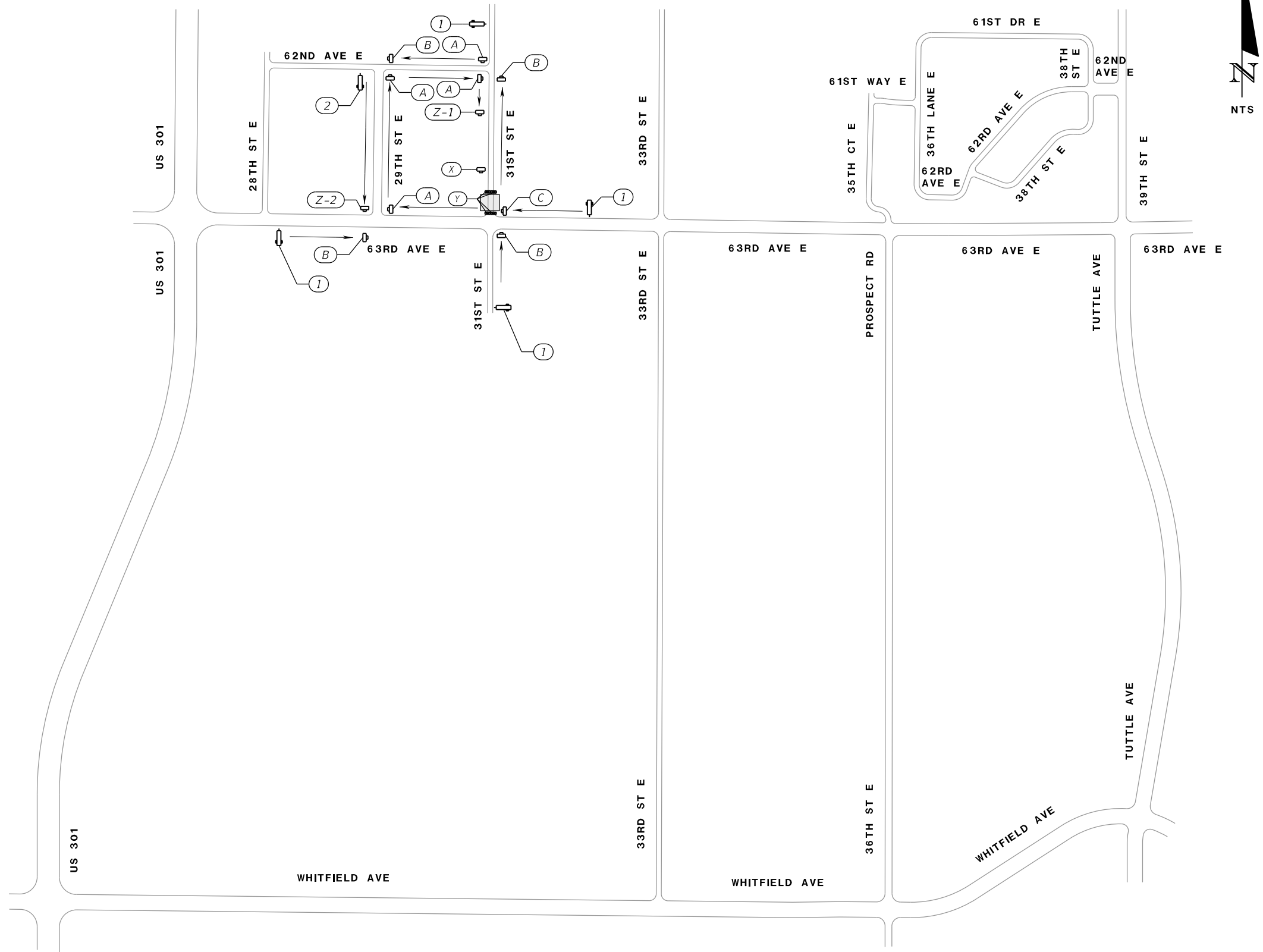
PCMS MESSAGES (DURING CLOSURE)



PCMS MESSAGES (14 DAYS PRIOR TO CLOSURE)



LEGEND	
	WORK ZONE SIGN
	PCMS
	DETOUR ROUTE
	TYPE III BARRICADE
	WORK ZONE



DETOUR 31ST ST E

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

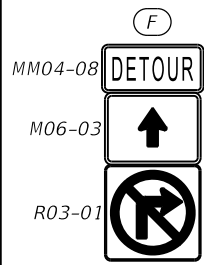
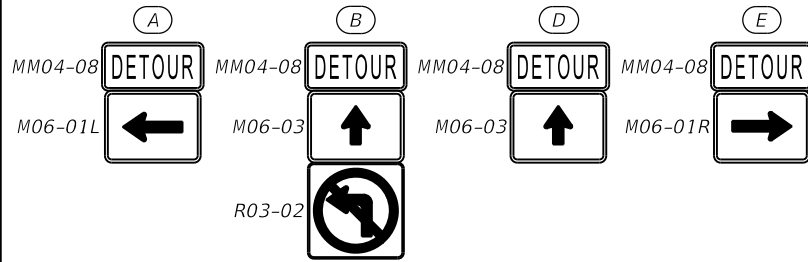
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

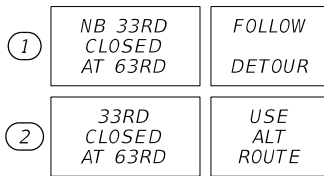
TEMPORARY TRAFFIC CONTROL PLANS (12)

SHEET NO.

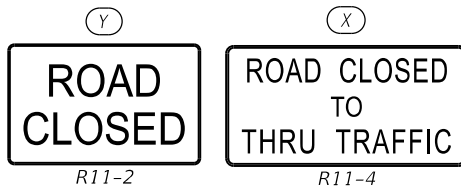
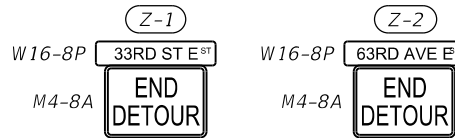
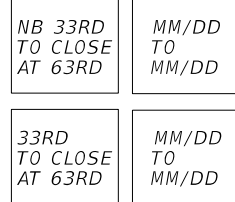
WORK ZONE SIGN SCHEMES



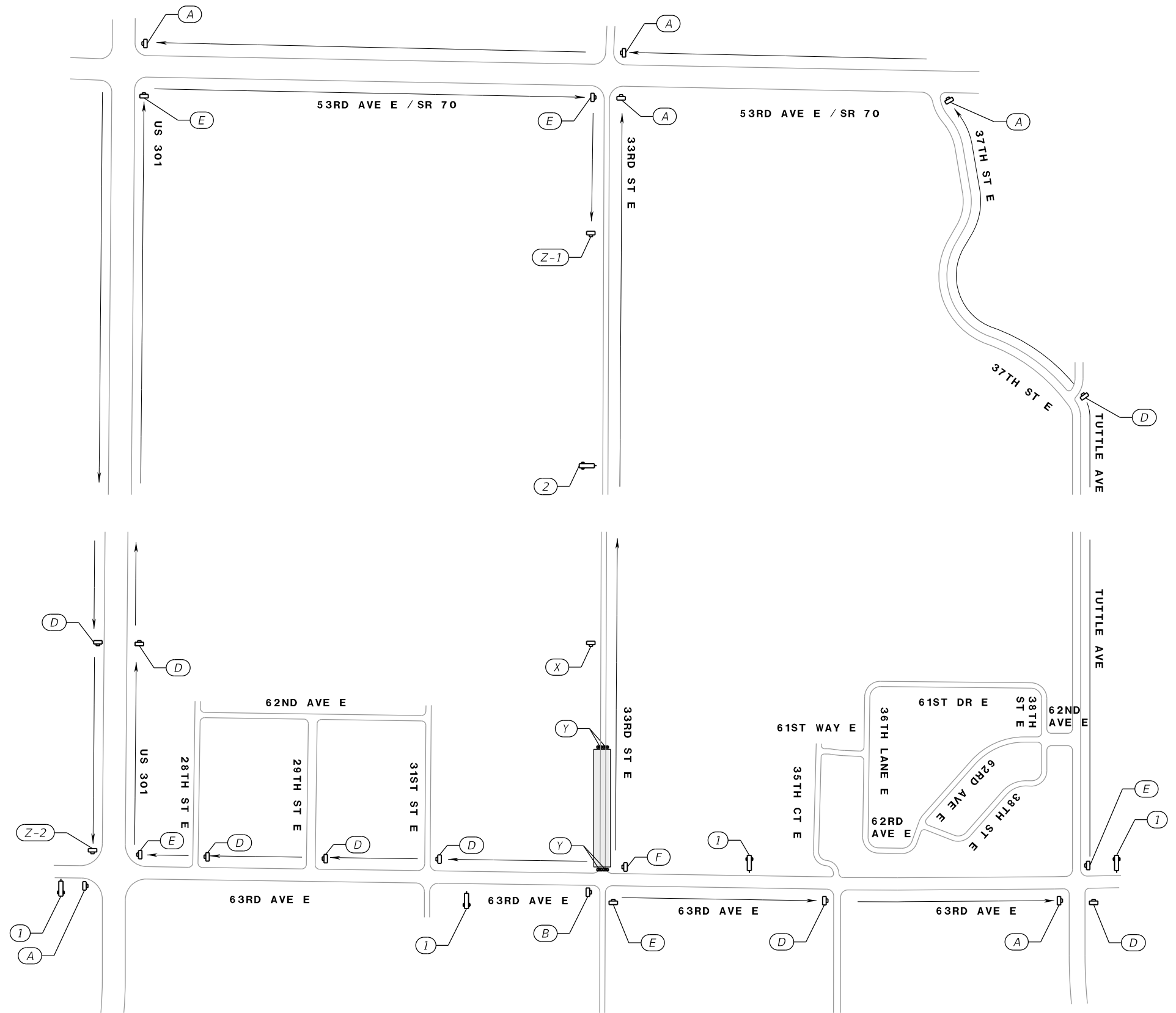
PCMS MESSAGES (DURING CLOSURE)



PCMS MESSAGES (14 DAYS PRIOR TO CLOSURE)



LEGEND	
	WORK ZONE SIGN
	PCMS
	DETOUR ROUTE
	TYPE III BARRICADE
	WORK ZONE



DETOUR 33RD ST E
NORTH INTERSECTION LEG

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

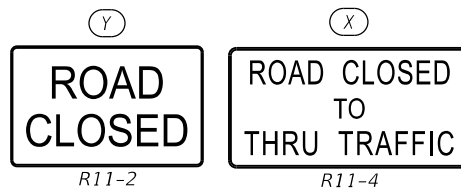
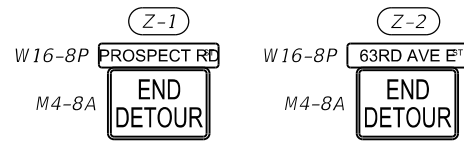
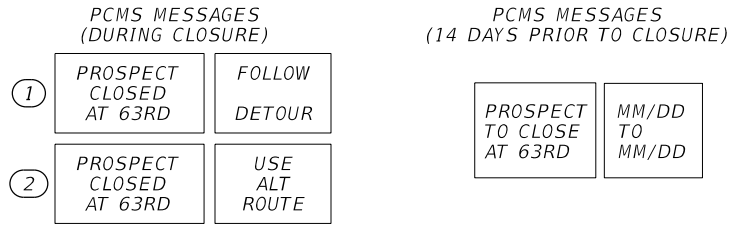
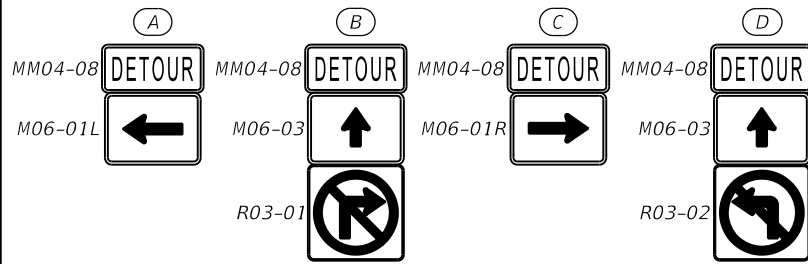
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

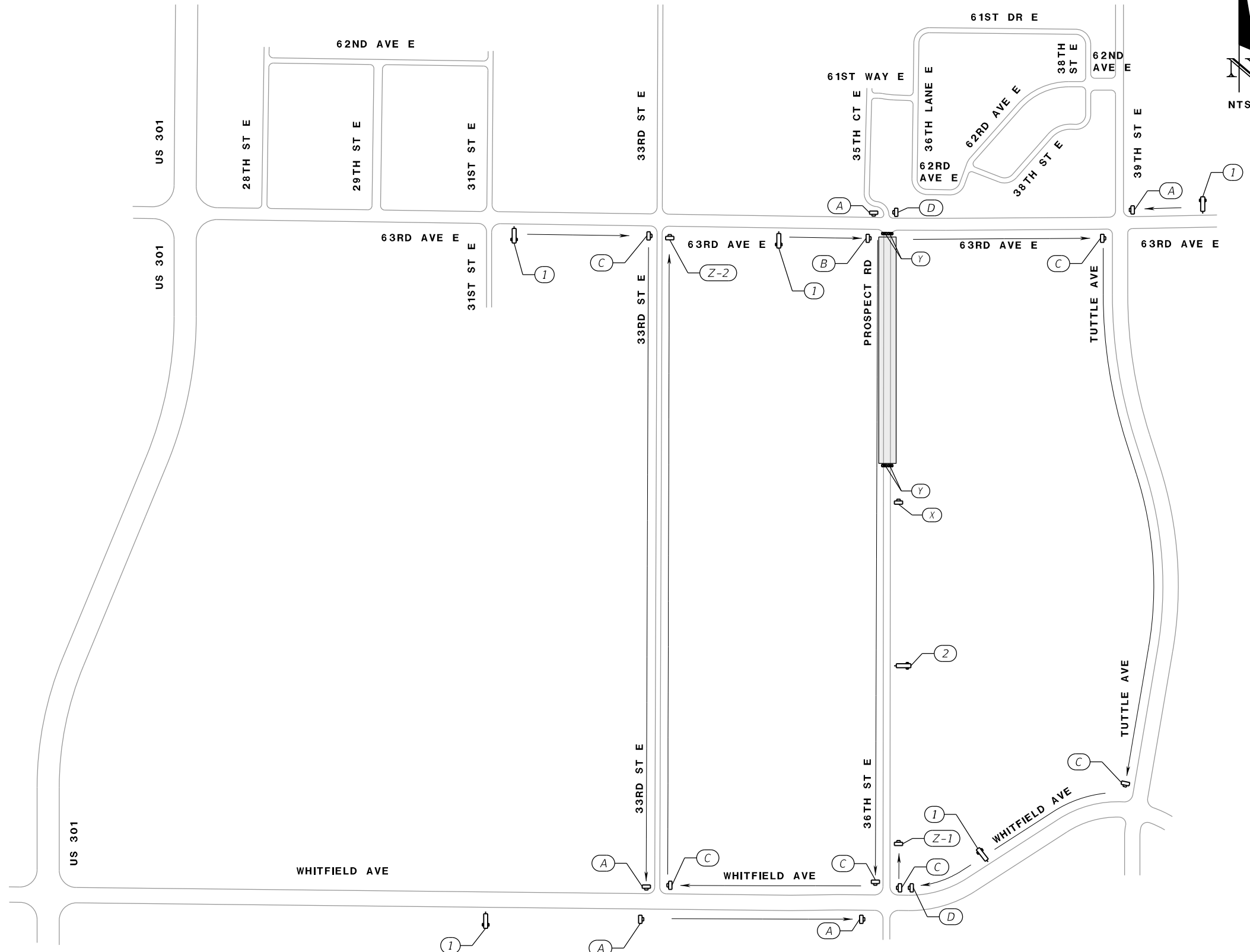
TEMPORARY TRAFFIC
CONTROL PLANS (13)

SHEET NO.

WORK ZONE SIGN SCHEMES



LEGEND	
	WORK ZONE SIGN
	PCMS
	DETOUR ROUTE
	TYPE III BARRICADE
	WORK ZONE



DETOUR PROSPECT RD / 36TH ST E

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

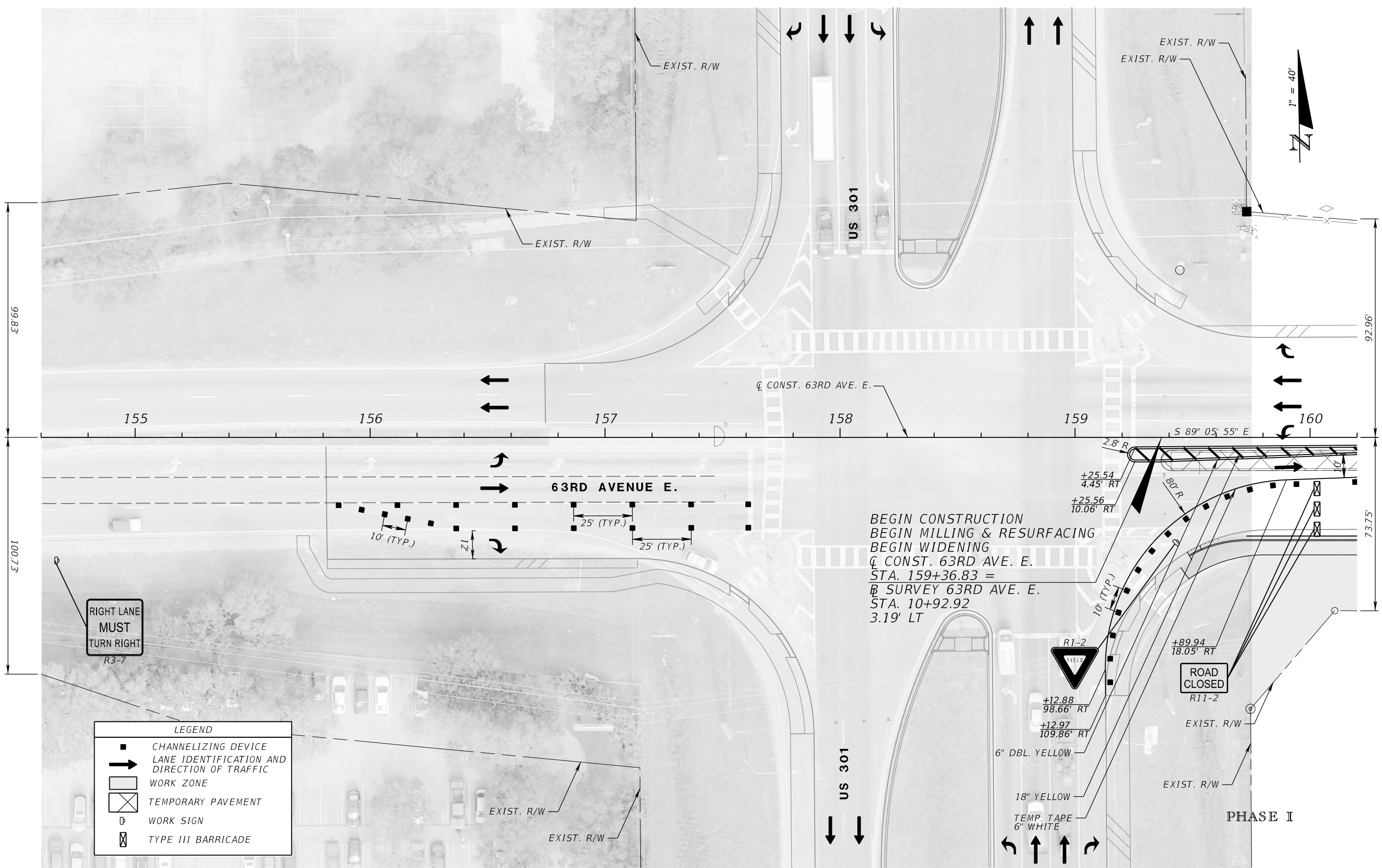
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

TEMPORARY TRAFFIC CONTROL PLANS (14)

SHEET NO.

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RIGHT LANE
MUST
TURN RIGHT
R3-7

LEGEND

	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVEMENT
	WORK SIGN
	TYPE III BARRICADE

BEGIN CONSTRUCTION
 BEGIN MILLING & RESURFACING
 BEGIN WIDENING
 C CONST. 63RD AVE. E.
 STA. 159+36.83 =
 B SURVEY 63RD AVE. E.
 STA. 10+92.92
 3.19' LT

PHASE I

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

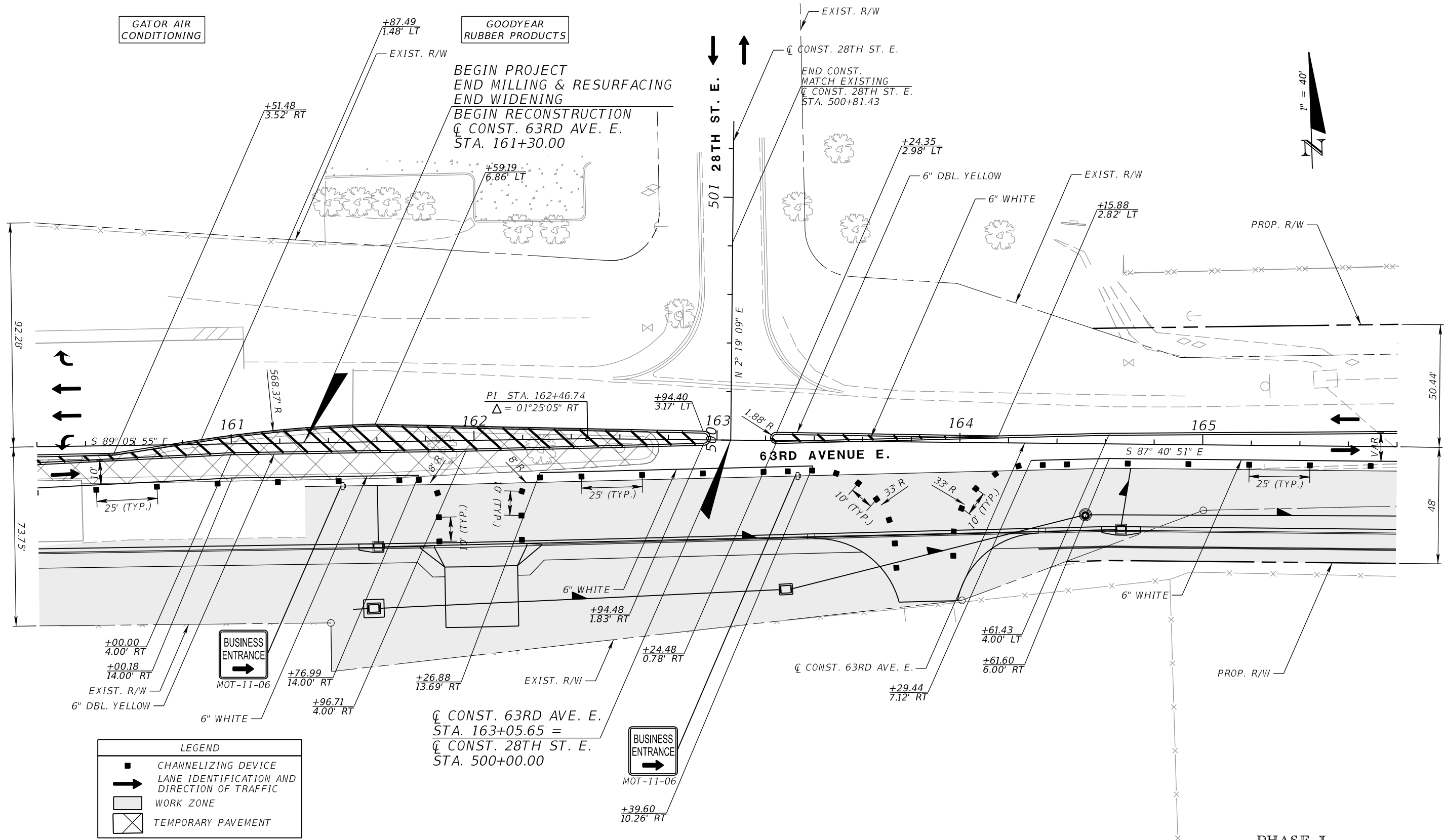
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

TEMPORARY TRAFFIC CONTROL PLANS (15)

SHEET NO.

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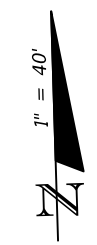


GATOR AIR
CONDITIONING

GOODYEAR
RUBBER PRODUCTS

BEGIN PROJECT
END MILLING & RESURFACING
END WIDENING
BEGIN RECONSTRUCTION
C CONST. 63RD AVE. E.
STA. 161+30.00

END CONST.
MATCH EXISTING
C CONST. 28TH ST. E.
STA. 500+81.43



LEGEND

	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVEMENT

THE PARTS HOUSE

FORRISTALL ENTERPRISES, INC

PHASE I

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

PGA ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

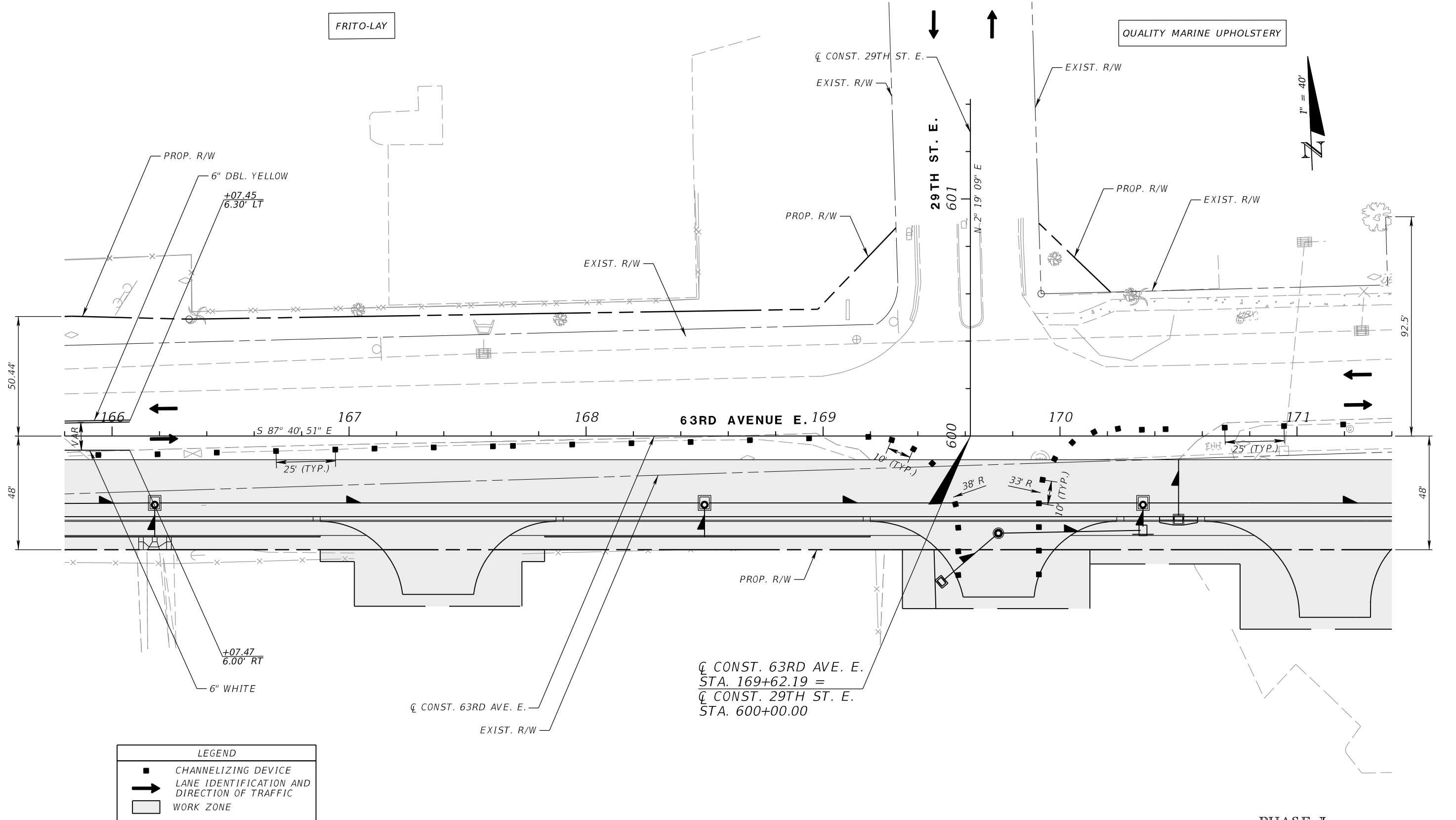
**TEMPORARY TRAFFIC
CONTROL PLANS (16)**

SHEET NO.

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

FRITO-LAY

QUALITY MARINE UPHOLSTERY



LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE

SUPERIOR POOL PRODUCTS

PHASE I

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

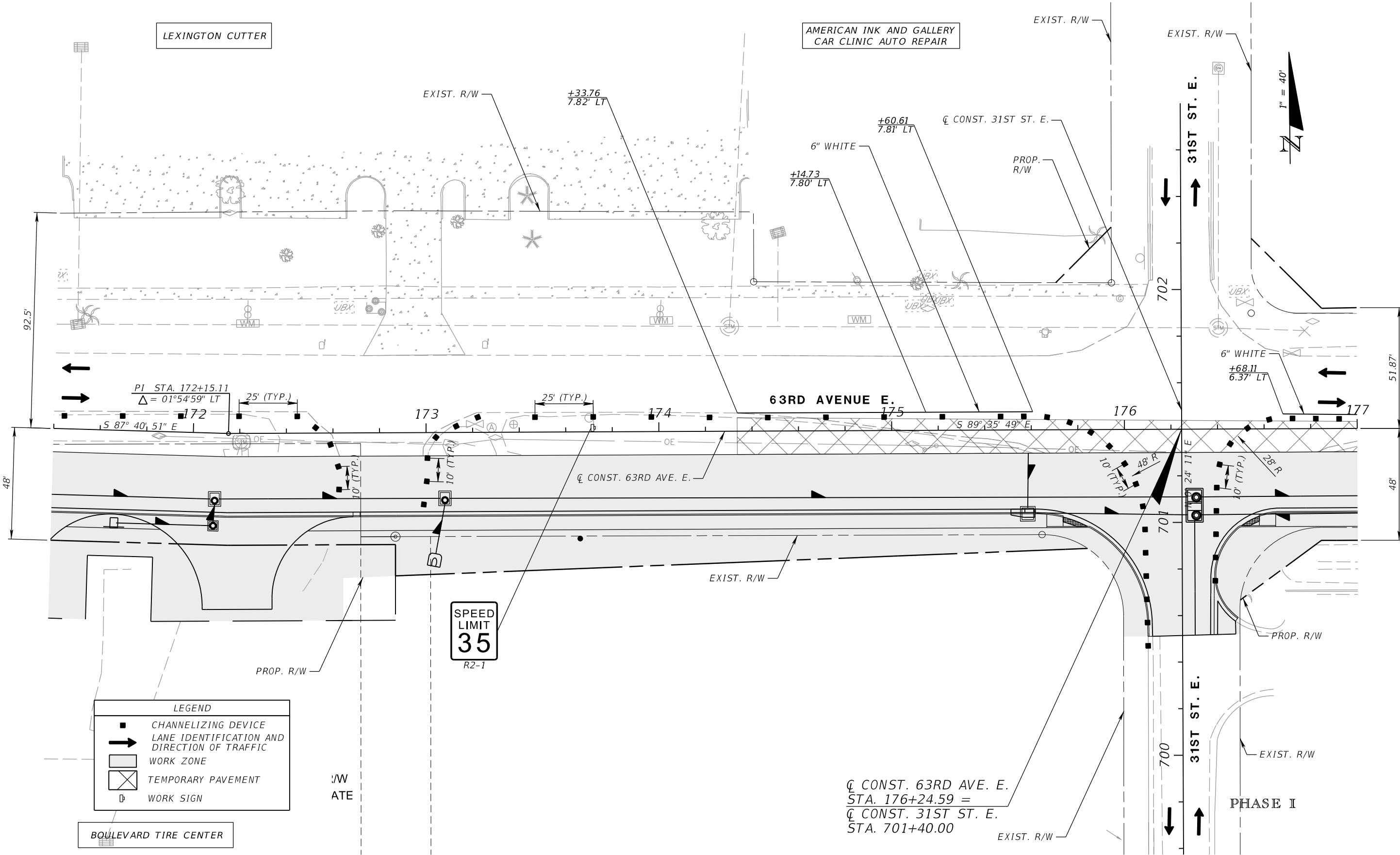
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
 FLORIDA ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

TEMPORARY TRAFFIC CONTROL PLANS (17)

SHEET NO.

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LEGEND

	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVEMENT
	WORK SIGN

$\text{C} \text{ CONST. 63RD AVE. E.}$
 $\text{STA. 176+24.59} =$
 $\text{C} \text{ CONST. 31ST ST. E.}$
 STA. 701+40.00

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

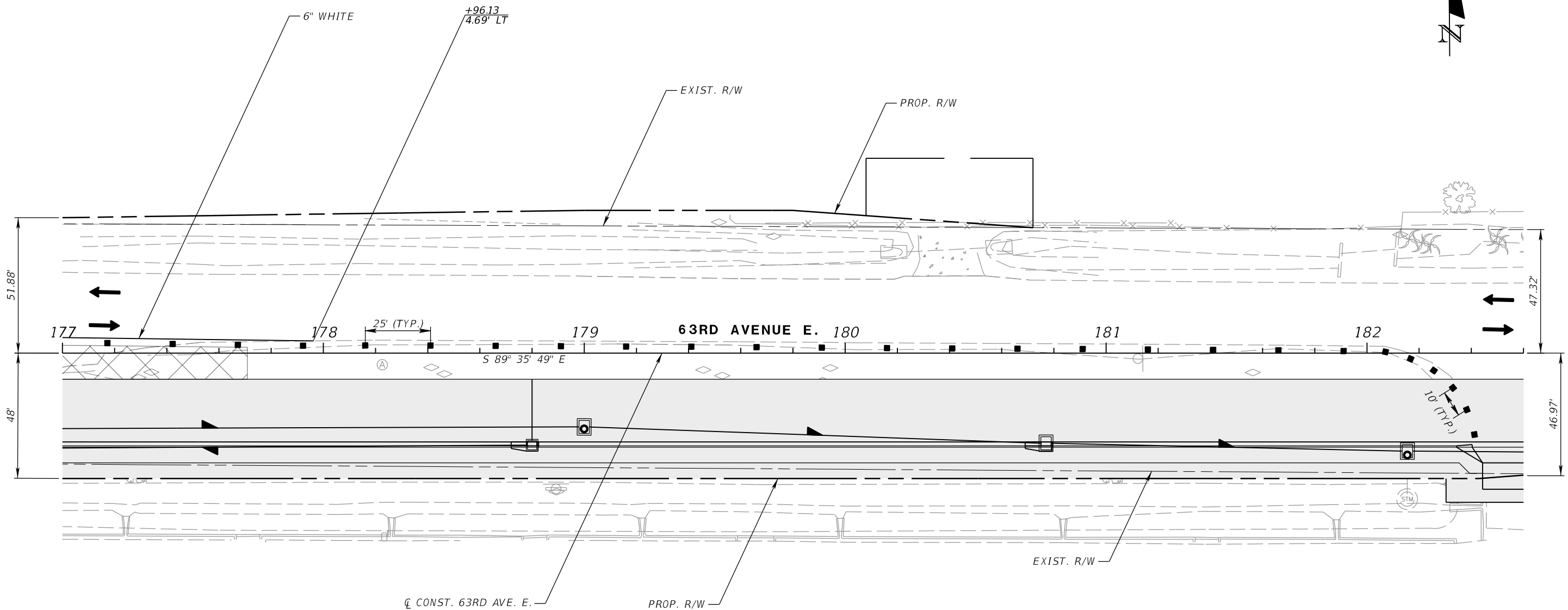
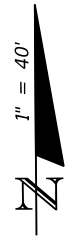
ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

TEMPORARY TRAFFIC CONTROL PLANS (18)

SHEET NO.

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LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVEMENT

TRULITE BRADENTON

PHASE I

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

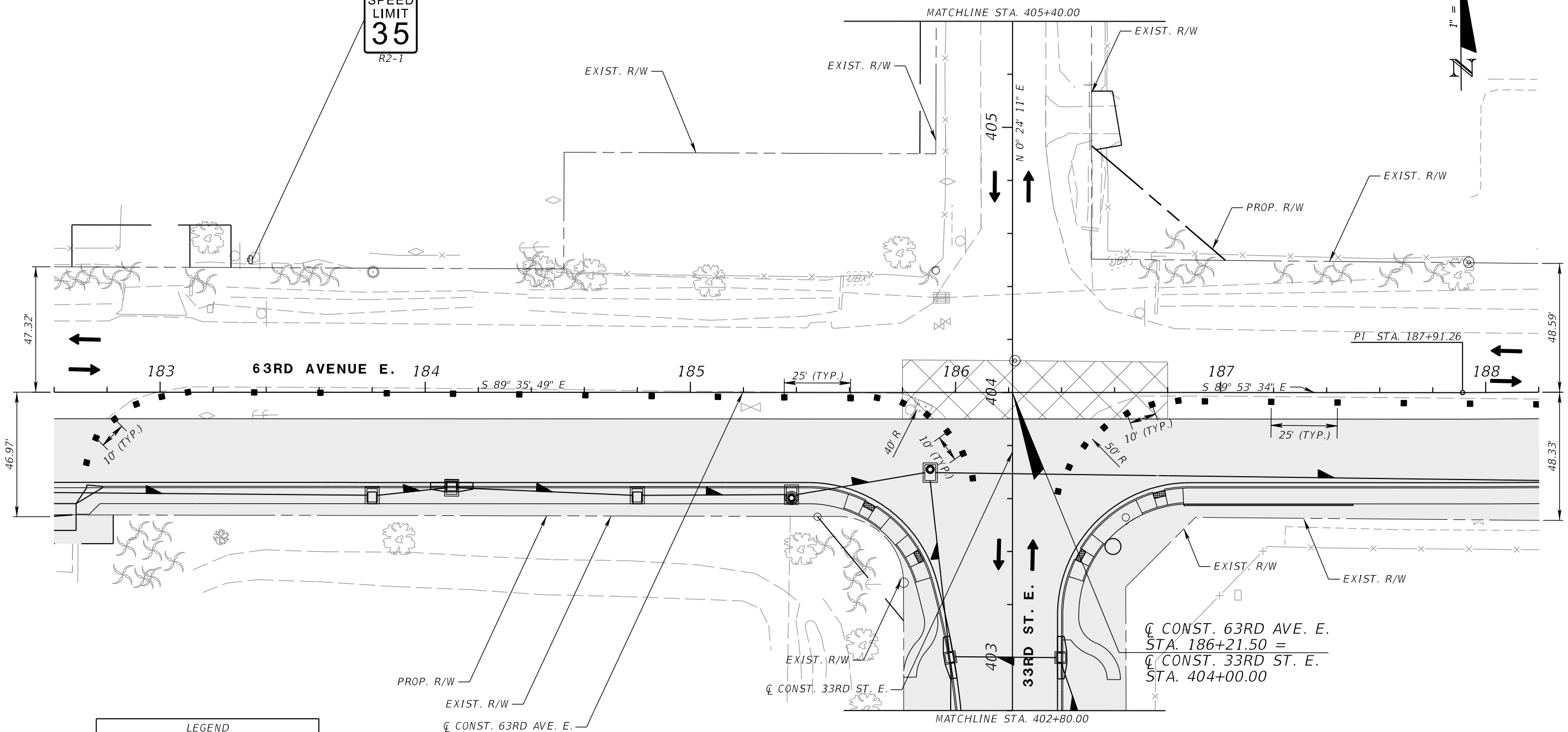
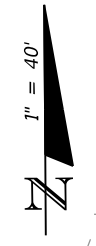
TEMPORARY TRAFFIC CONTROL PLANS (19)

SHEET NO.

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GULFSIDE ROOFING INC

SPEED LIMIT 35 R2-1



LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVEMENT
	WORK SIGN

PHASE I

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

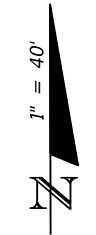
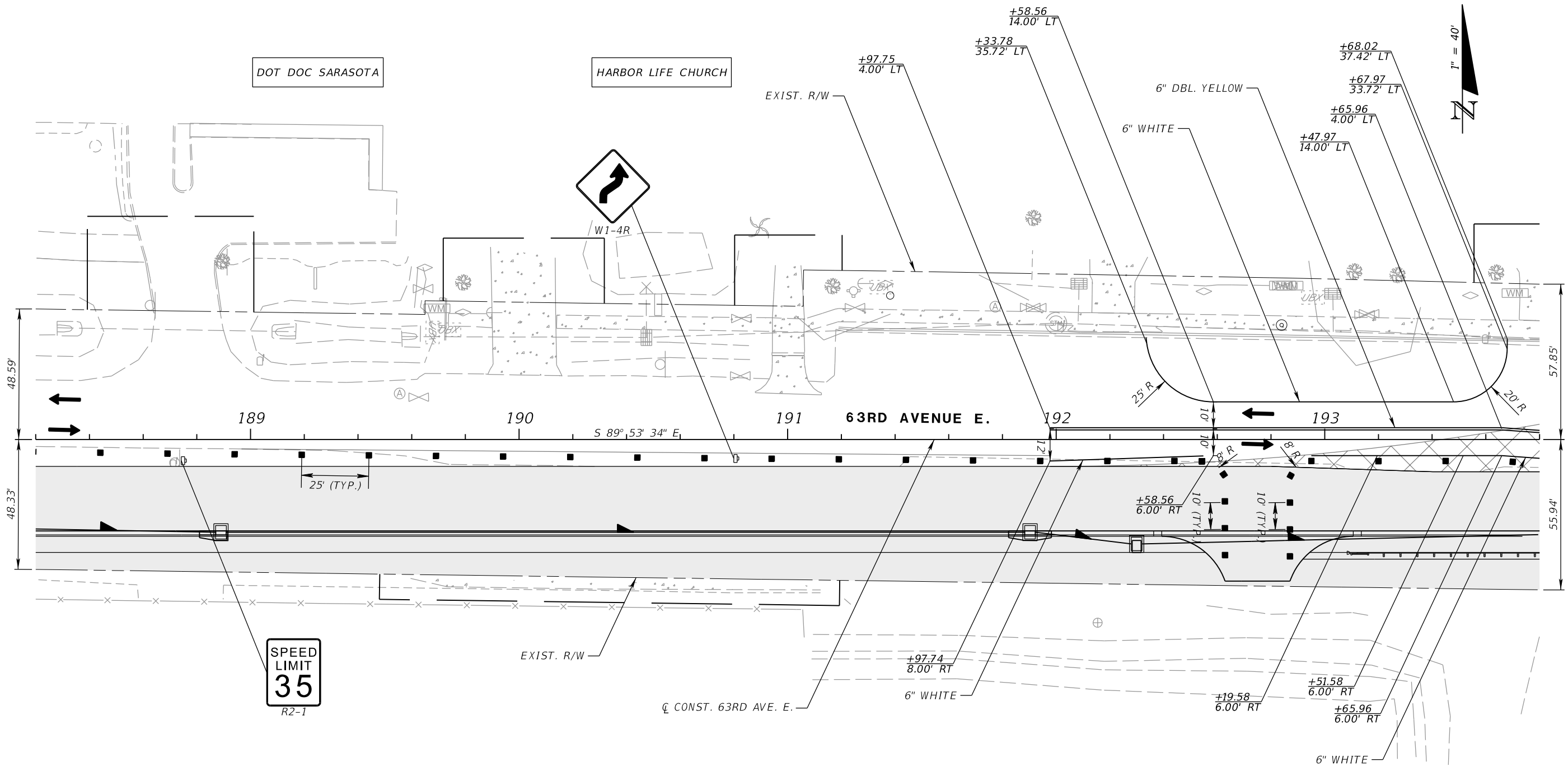
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
 FLORIDA ENGINEERING SERVICES
 1022 26th Avenue East
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TEMPORARY TRAFFIC CONTROL PLANS (20)

SHEET NO.

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DOT DOC SARASOTA

HARBOR LIFE CHURCH



W1-4R

SPEED LIMIT
35
R2-1

LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVEMENT
	WORK SIGN

NOTE: AFTER THE NEW DRIVEWAY IS CONSTRUCTED AT 192+75.00 (RT) DIVERT TRAFFIC FROM OLD DRIVEWAY AT 193+35.00 (RT) TO NEW DRIVEWAY CONSTRUCTED.

PHASE I

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

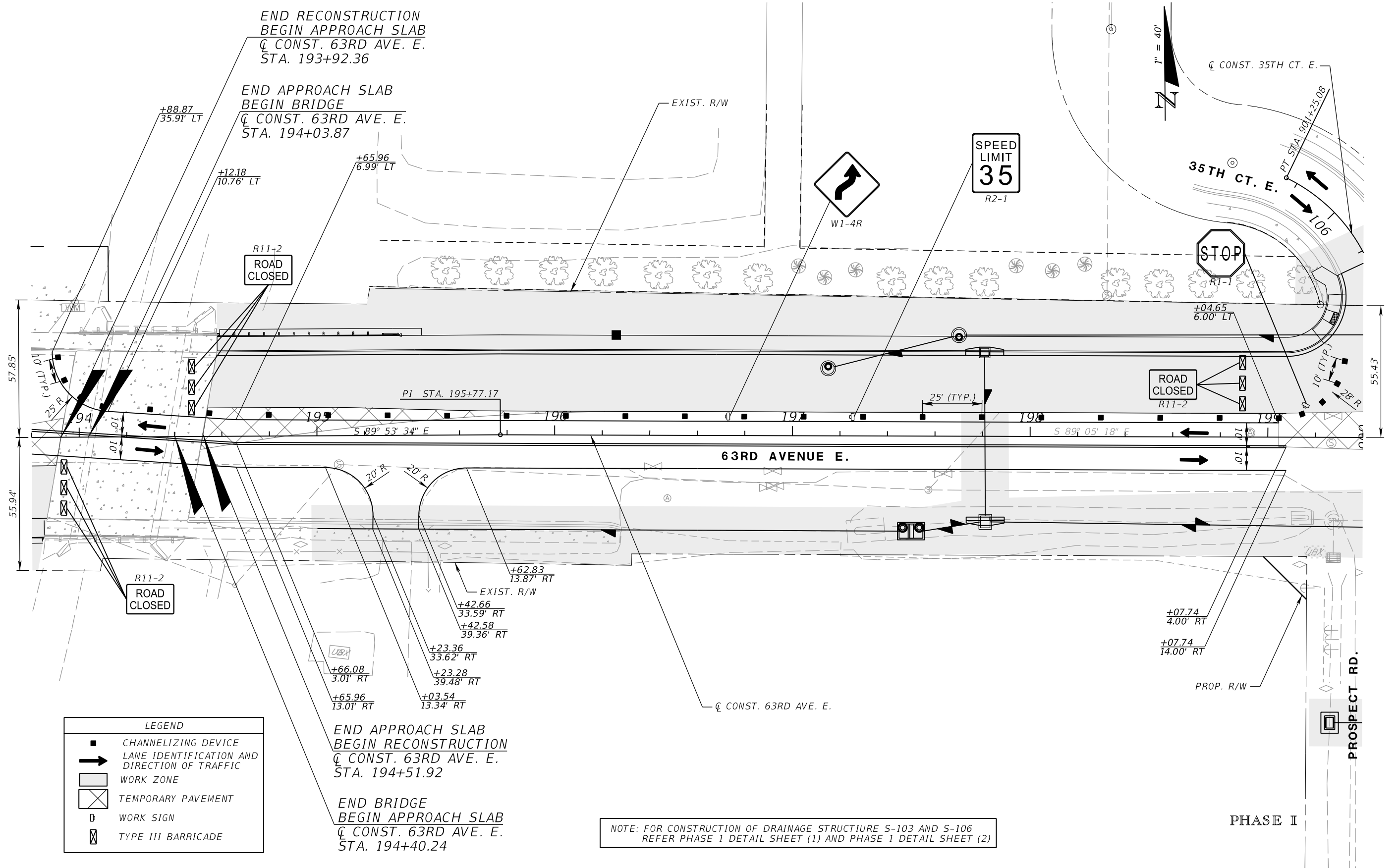
PGA ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
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TEMPORARY TRAFFIC CONTROL PLANS (21)

SHEET NO.

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LEGEND

- CHANNELIZING DEVICE
- ➔ LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- ▨ WORK ZONE
- ⊠ TEMPORARY PAVEMENT
- Ⓧ WORK SIGN
- Ⓧ TYPE III BARRICADE

NOTE: FOR CONSTRUCTION OF DRAINAGE STRUCTURE S-103 AND S-106 REFER PHASE 1 DETAIL SHEET (1) AND PHASE 1 DETAIL SHEET (2)

PHASE I

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

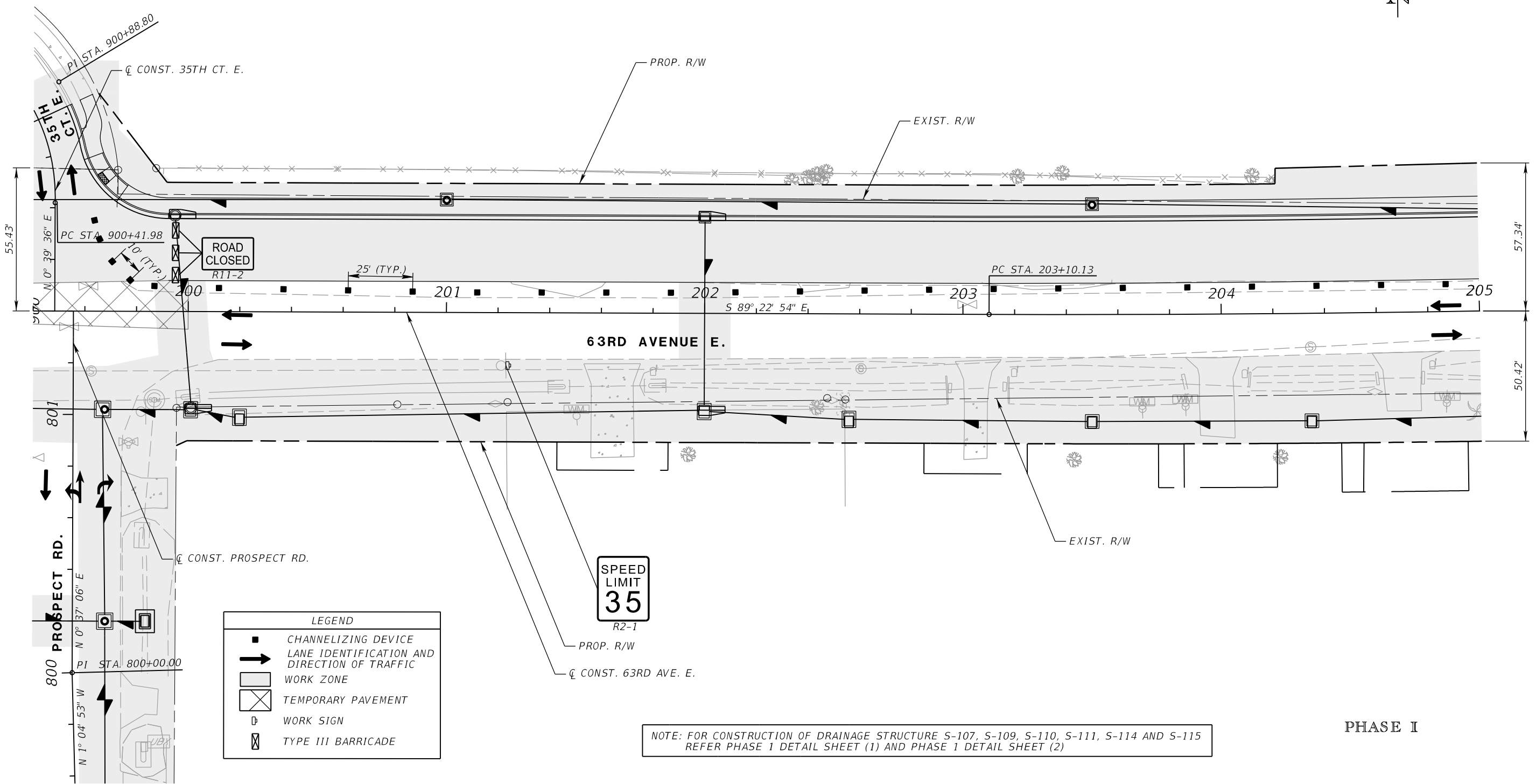
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
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TEMPORARY TRAFFIC CONTROL PLANS (22)

SHEET NO.

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LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVEMENT
	WORK SIGN
	TYPE III BARRICADE

SPEED LIMIT 35
R2-1

NOTE: FOR CONSTRUCTION OF DRAINAGE STRUCTURE S-107, S-109, S-110, S-111, S-114 AND S-115 REFER PHASE 1 DETAIL SHEET (1) AND PHASE 1 DETAIL SHEET (2)

PHASE I

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

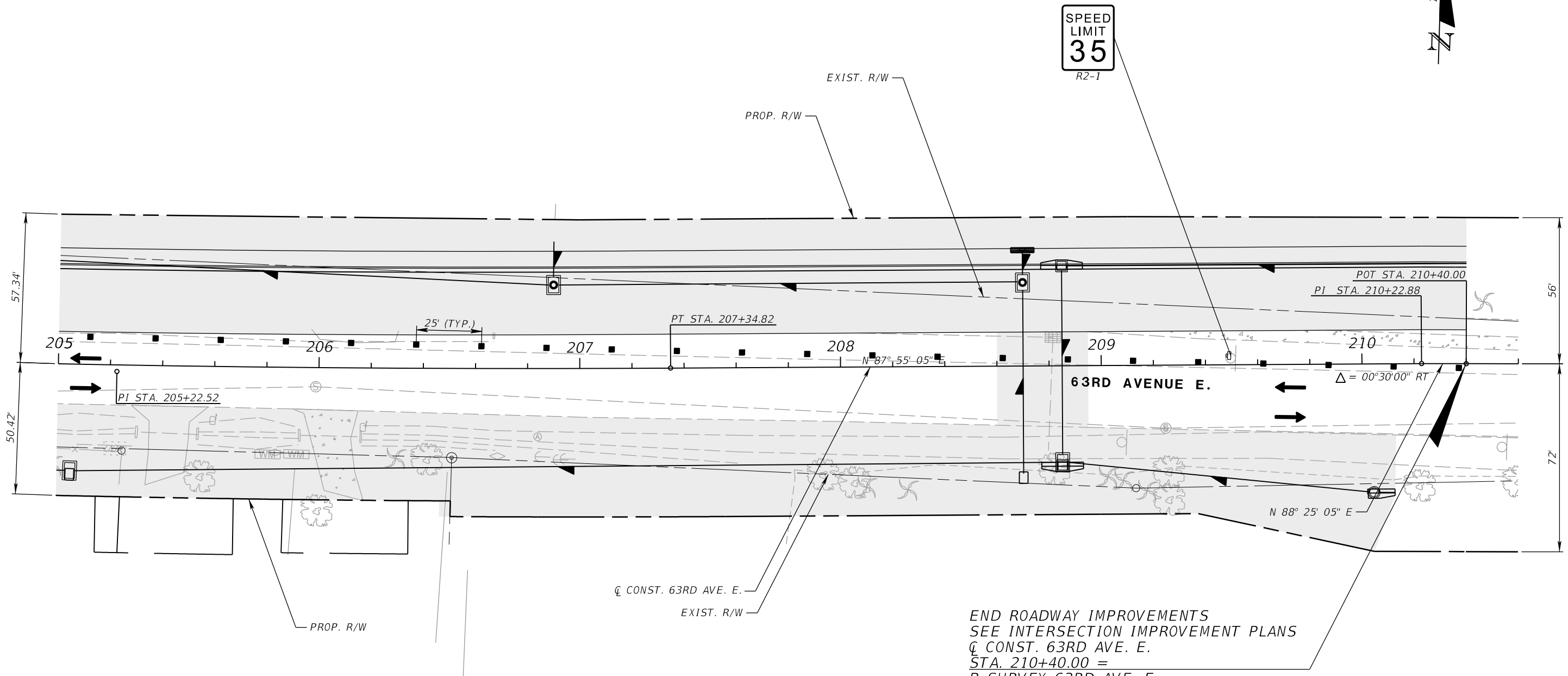
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

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TEMPORARY TRAFFIC CONTROL PLANS (23)

SHEET NO.

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SPEED
LIMIT
35
R2-1

LEGEND	
■	CHANNELIZING DEVICE
➔	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
▭	WORK ZONE
Ⓛ	WORK SIGN

NOTE: FOR CONSTRUCTION OF DRAINAGE STRUCTURE S-128 REFER PHASE 1 DETAIL SHEET (3)

END ROADWAY IMPROVEMENTS
SEE INTERSECTION IMPROVEMENT PLANS
☐ CONST. 63RD AVE. E.
STA. 210+40.00 =
Ⓛ SURVEY 63RD AVE. E.
STA. 61+95.63

PHASE I

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

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ADAM S. PEREZ, P.E.
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TEMPLE TERRACE, FL 33637

Manatee County
FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

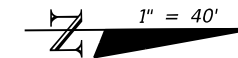
**TEMPORARY TRAFFIC
CONTROL PLANS (24)**

SHEET
NO.

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

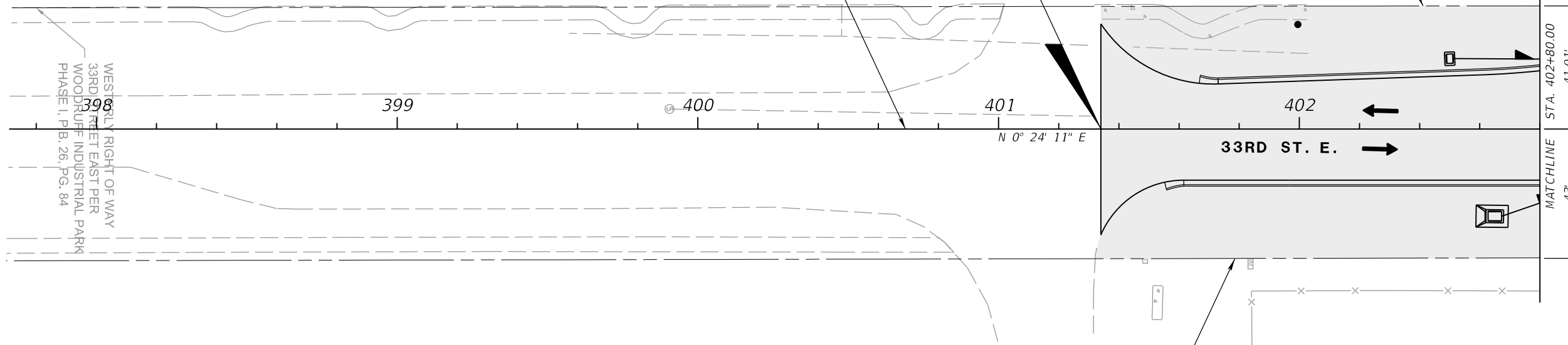
WOODS SUBSTATION

EXIST. R/W



BEGIN MILLING & RESURFACING
 BEGIN WIDENING
 C CONST. 33RD ST. E.
 STA. 401+34.00

C CONST. 33RD ST. E.



WESTERLY RIGHT OF WAY
 33RD STREET EAST PER
 WOODRUFF INDUSTRIAL PARK
 PHASE I, P.B. 26, PG. 84

LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE

RENOVO RESOURCE SOLUTIONS

PHASE I

33RD STREET E.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

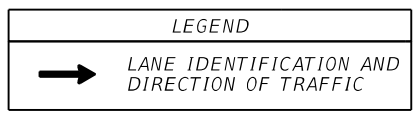
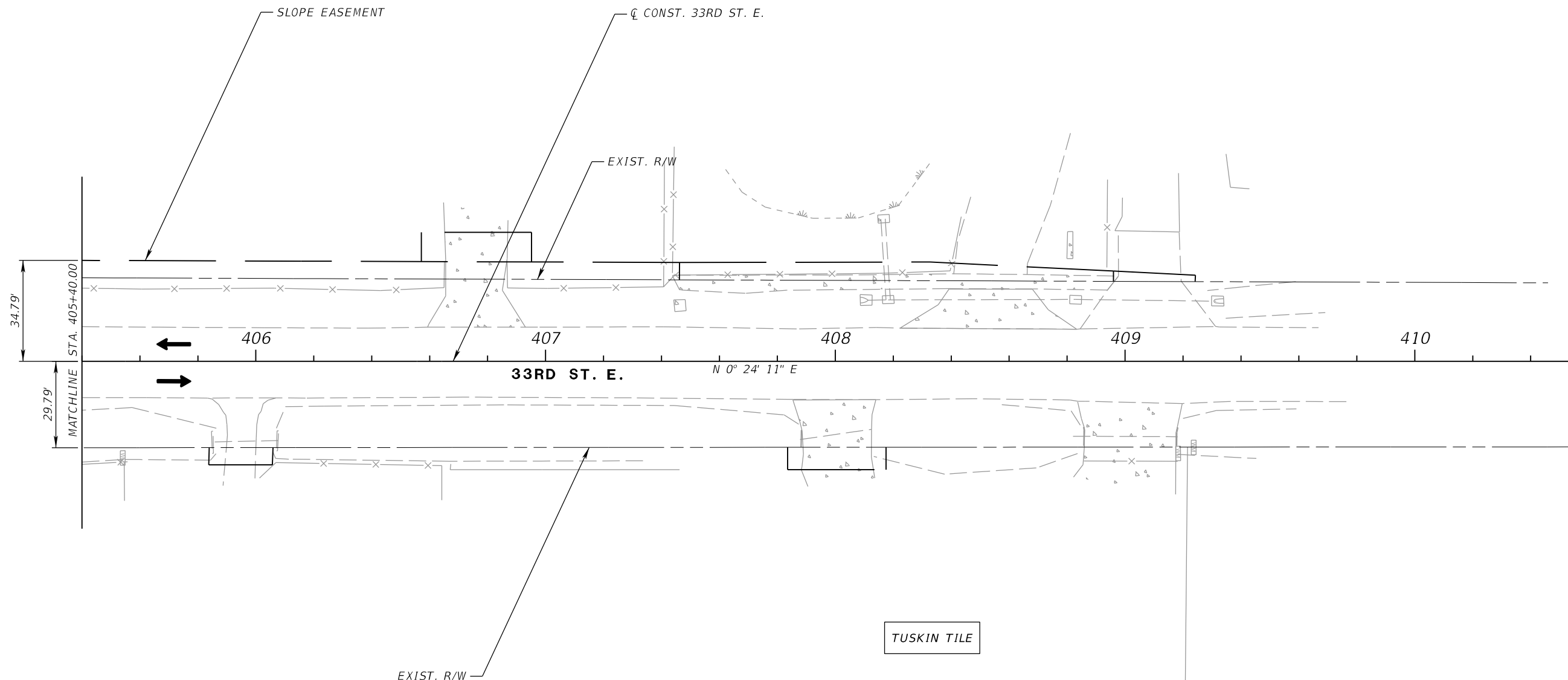
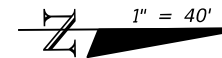
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
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 1022 26th Avenue East
 Bradenton, FL 34208

TEMPORARY TRAFFIC
 CONTROL PLANS (25)


SHEET NO.

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PHASE I
33RD STREET E.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860



ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637



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ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

*TEMPORARY TRAFFIC
CONTROL PLANS (26)*

SHEET NO.

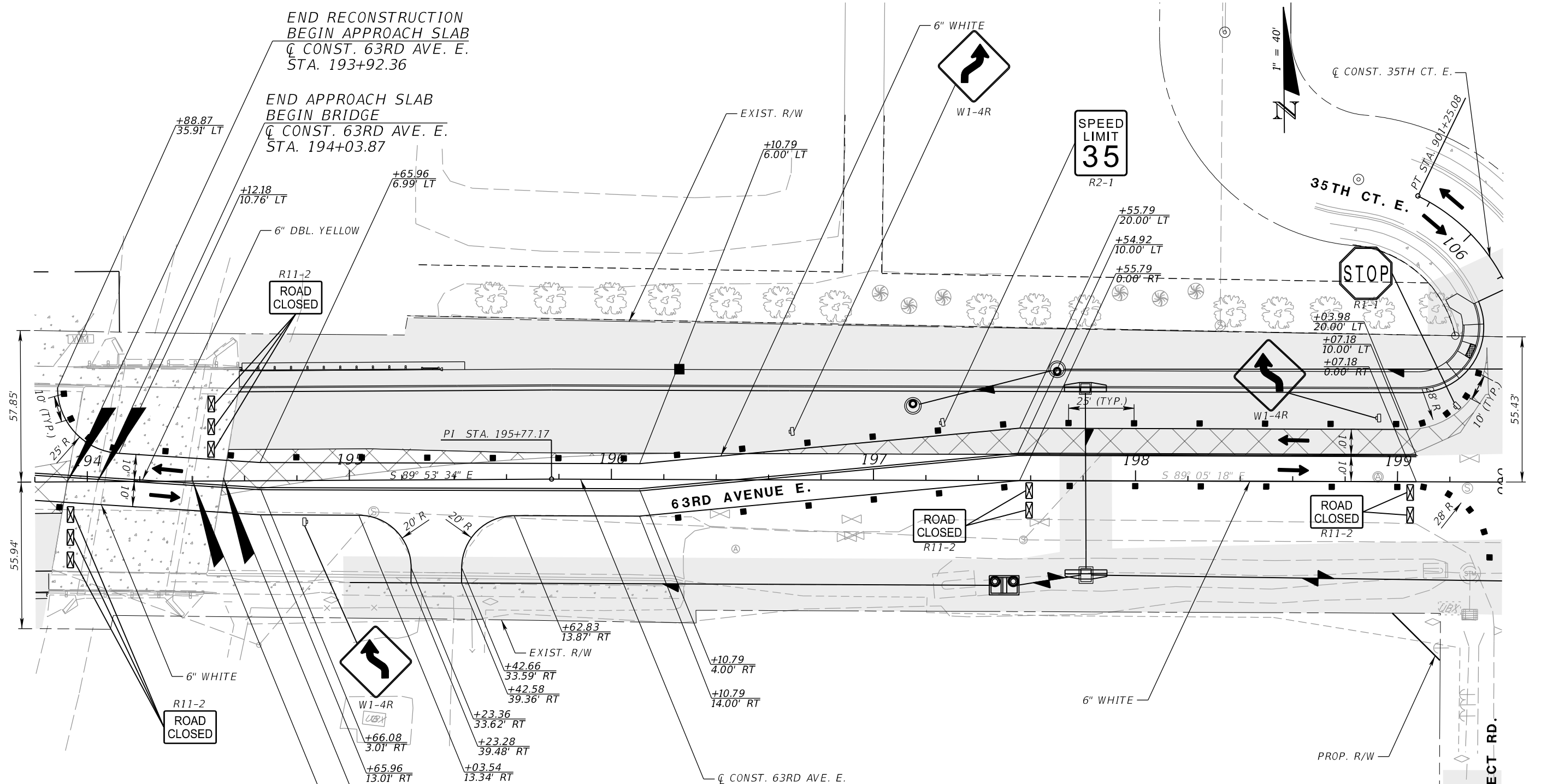
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

END RECONSTRUCTION
BEGIN APPROACH SLAB
C CONST. 63RD AVE. E.
STA. 193+92.36

END APPROACH SLAB
BEGIN BRIDGE
C CONST. 63RD AVE. E.
STA. 194+03.87

END APPROACH SLAB
BEGIN RECONSTRUCTION
C CONST. 63RD AVE. E.
STA. 194+51.92

END BRIDGE
BEGIN APPROACH SLAB
C CONST. 63RD AVE. E.
STA. 194+40.24



LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVEMENT
	WORK SIGN
	TYPE III BARRICADE

PHASE I DETAIL SHEET (1)

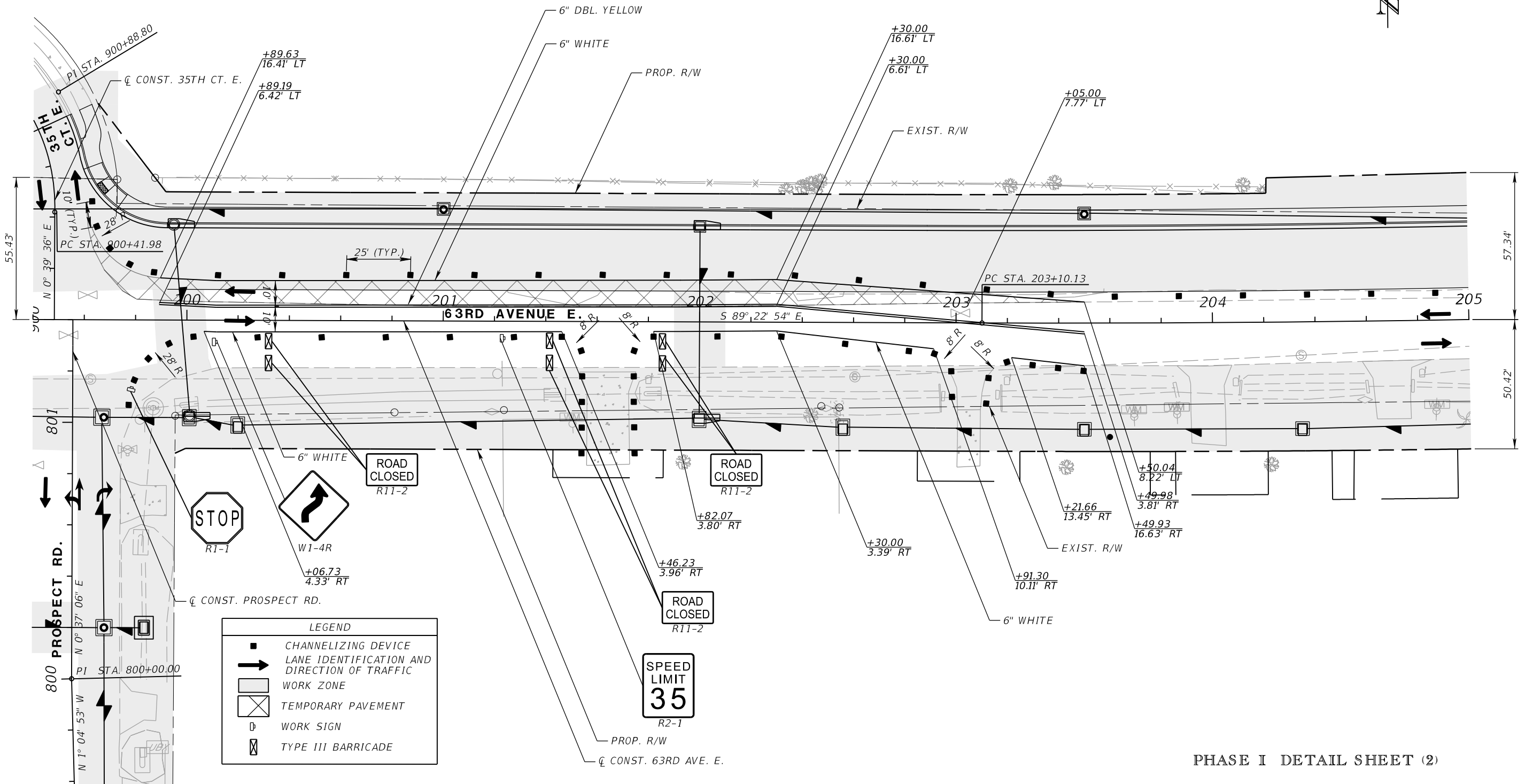
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

PGA
ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

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FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

**TEMPORARY TRAFFIC
CONTROL PLANS (27)**

SHEET NO.



PHASE I DETAIL SHEET (2)

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

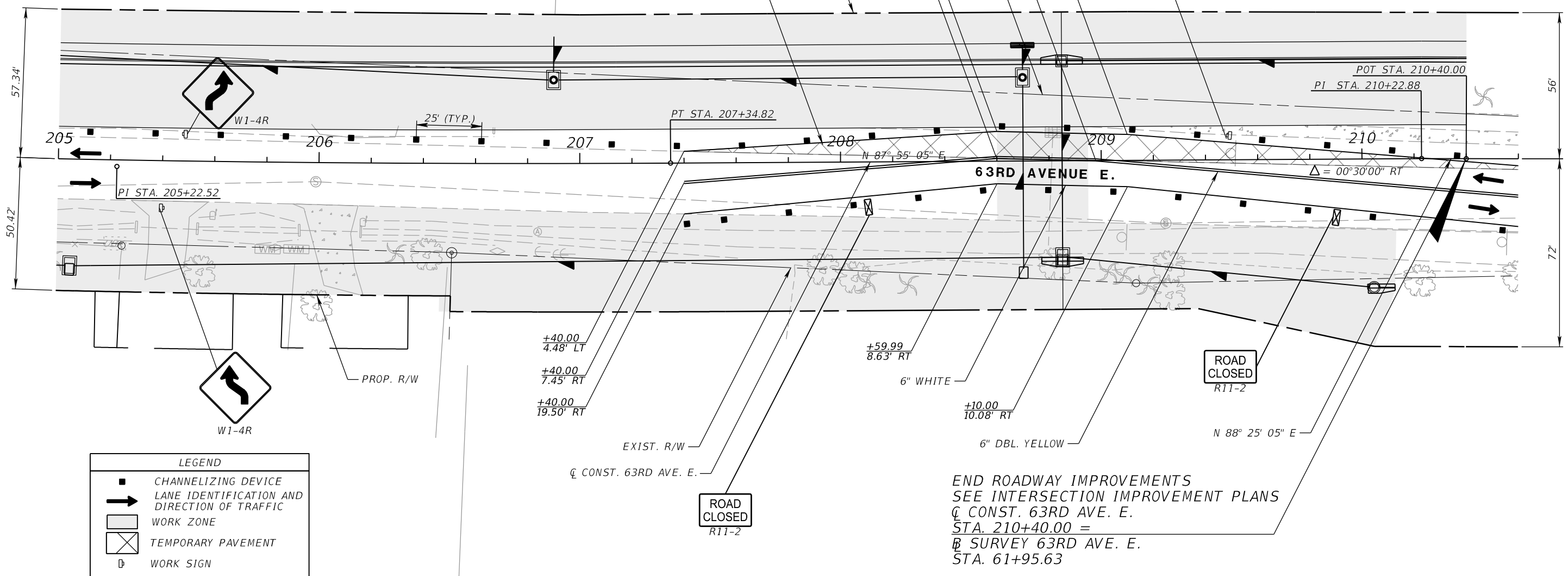
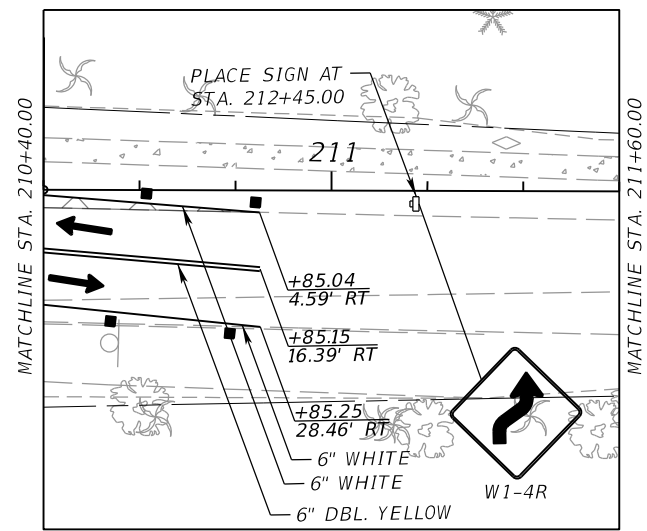
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
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TEMPORARY TRAFFIC CONTROL PLANS (28)

SHEET NO.

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LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVEMENT
	WORK SIGN
	TYPE III BARRICADE

END ROADWAY IMPROVEMENTS
 SEE INTERSECTION IMPROVEMENT PLANS
 Q CONST. 63RD AVE. E.
 STA. 210+40.00 =
 B SURVEY 63RD AVE. E.
 STA. 61+95.63

PHASE I DETAIL SHEET (3)

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

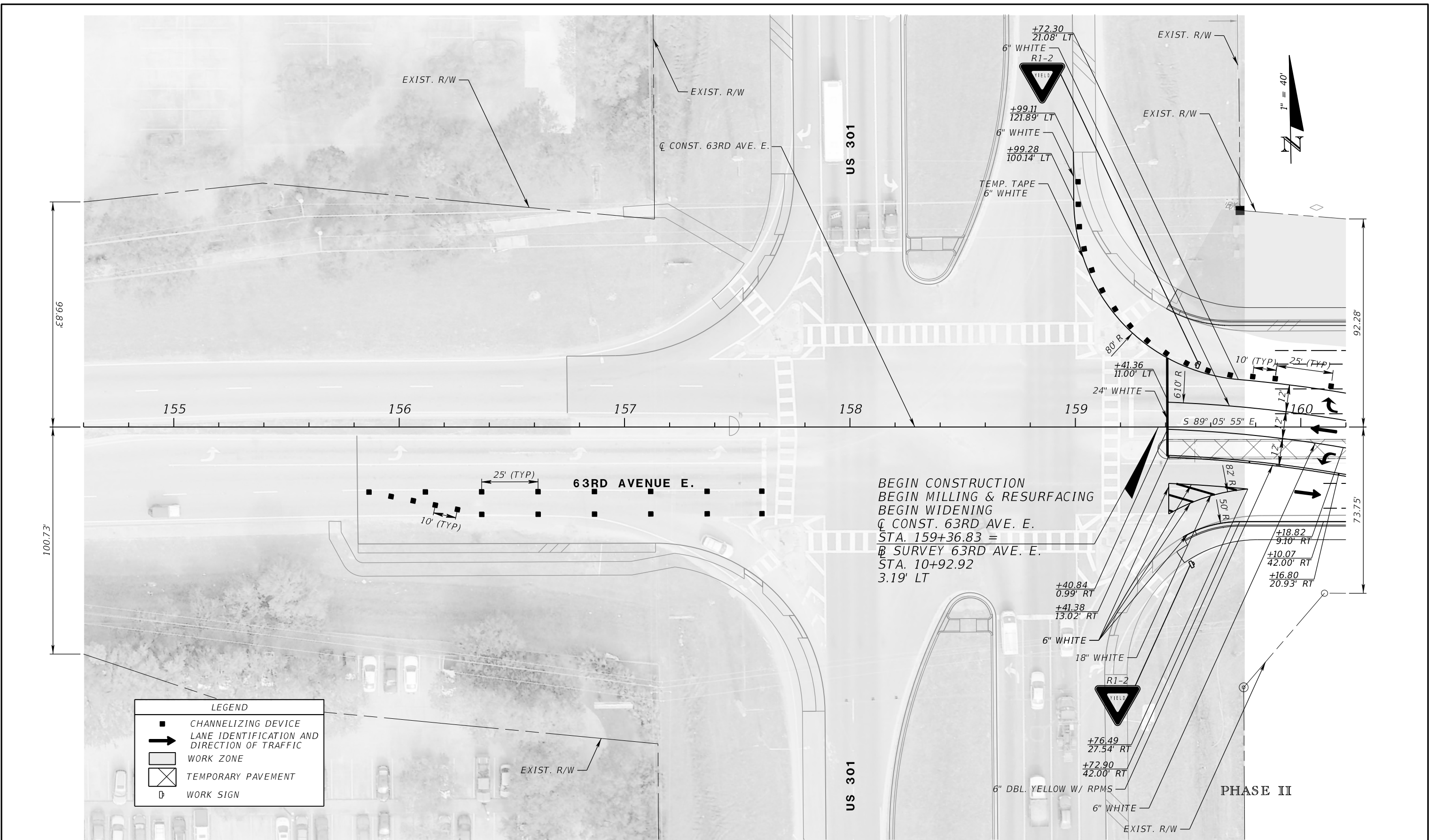
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
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 PUBLIC WORKS DEPARTMENT
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 1022 26th Avenue East
 Bradenton, FL 34208

TEMPORARY TRAFFIC CONTROL PLANS (29)

SHEET NO.

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LEGEND

	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVEMENT
	WORK SIGN

BEGIN CONSTRUCTION
 BEGIN MILLING & RESURFACING
 BEGIN WIDENING
 Q CONST. 63RD AVE. E.
 STA. 159+36.83 =
 B SURVEY 63RD AVE. E.
 STA. 10+92.92
 3.19' LT

TEMPORARY TRAFFIC CONTROL PLANS (30)

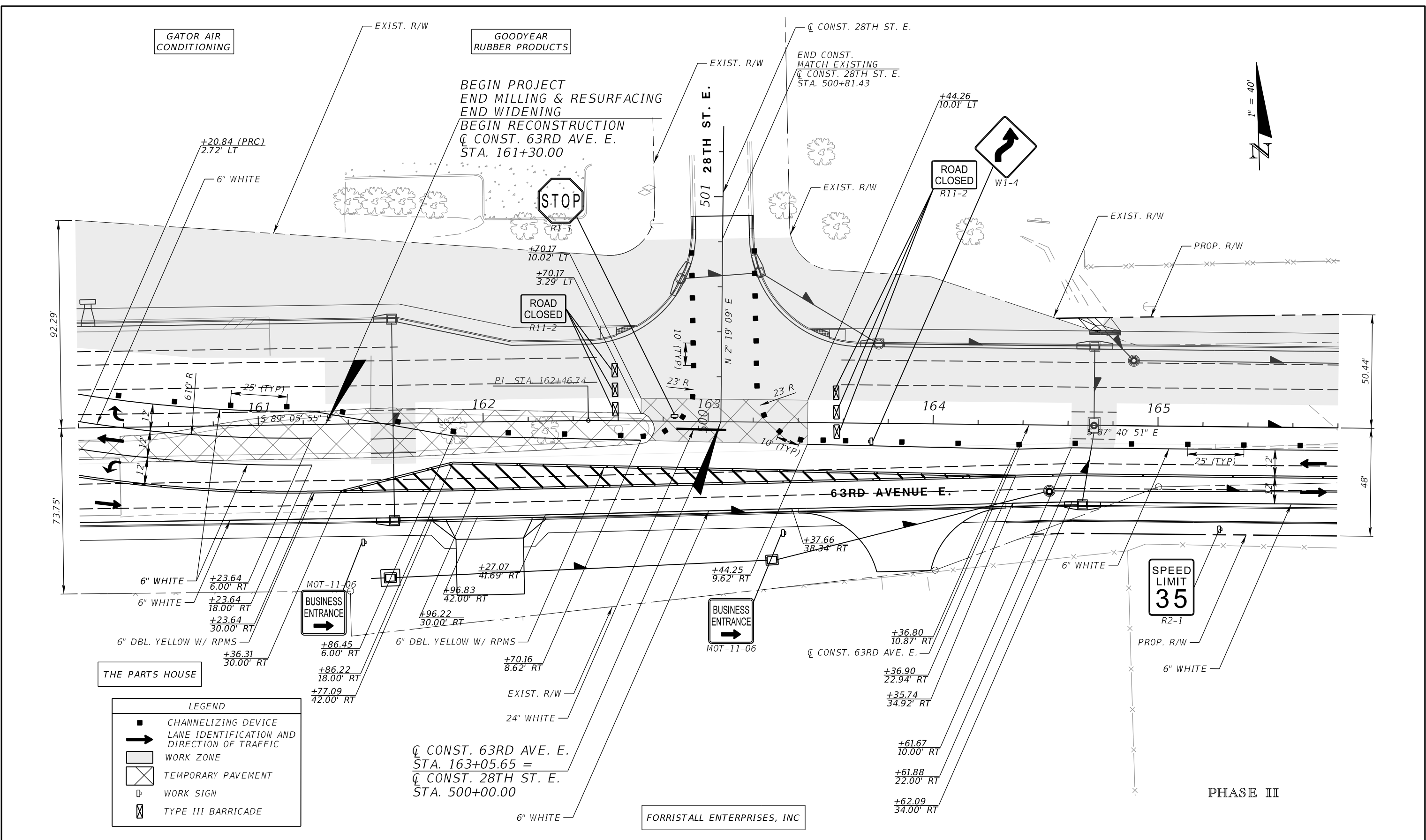
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

SHEET NO.

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LEGEND

- CHANNELIZING DEVICE
- ➔ LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- ▨ WORK ZONE
- ▧ TEMPORARY PAVEMENT
- Ⓢ WORK SIGN
- ⓧ TYPE III BARRICADE

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

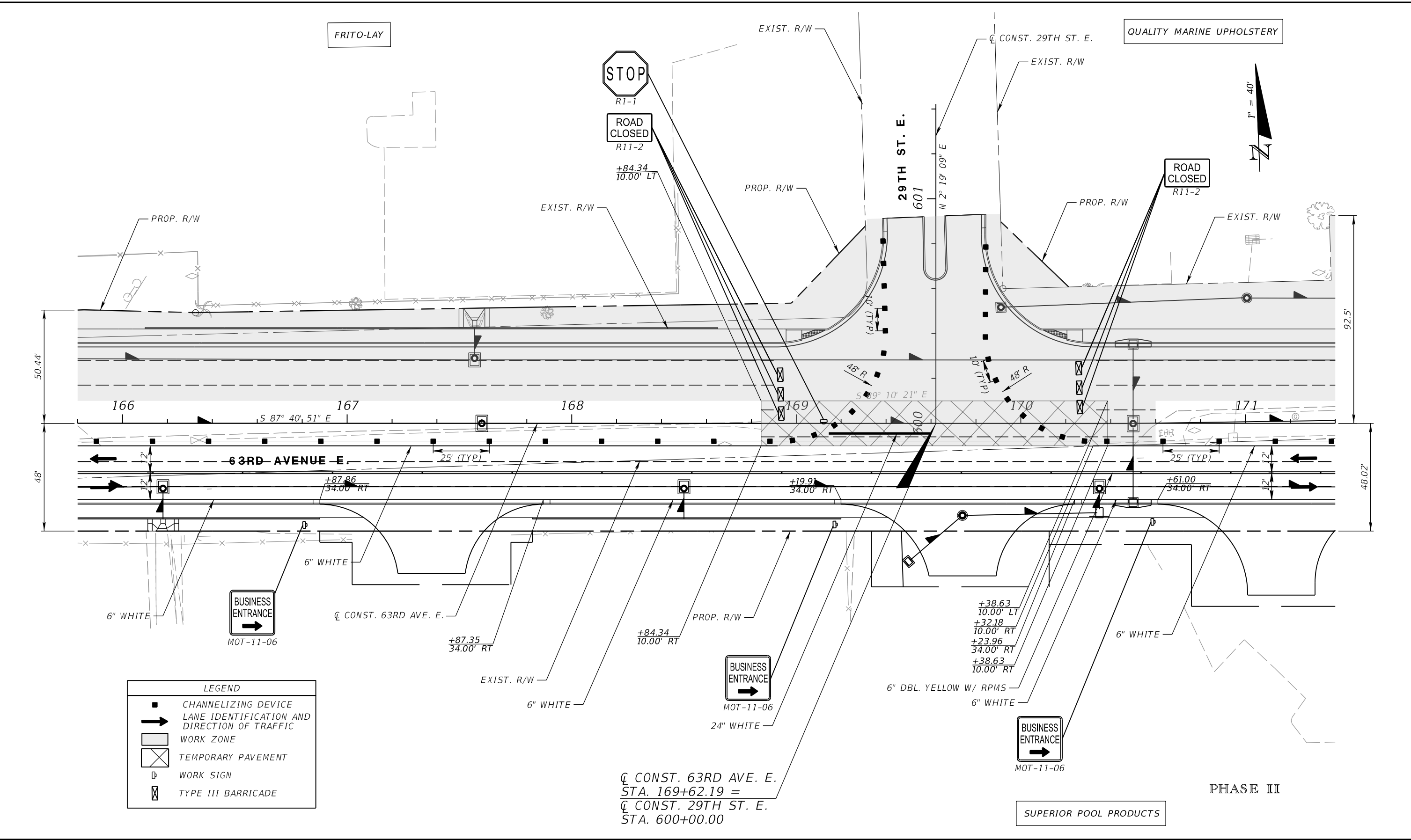
PGA ADAM S. PEREZ, P.E.
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 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
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 1022 26th Avenue East
 Bradenton, FL 34208

TEMPORARY TRAFFIC CONTROL PLANS (31)

SHEET NO.

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LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVEMENT
	WORK SIGN
	TYPE III BARRICADE

Q CONST. 63RD AVE. E.
 STA. 169+62.19 =
 Q CONST. 29TH ST. E.
 STA. 600+00.00

SUPERIOR POOL PRODUCTS

PHASE II

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

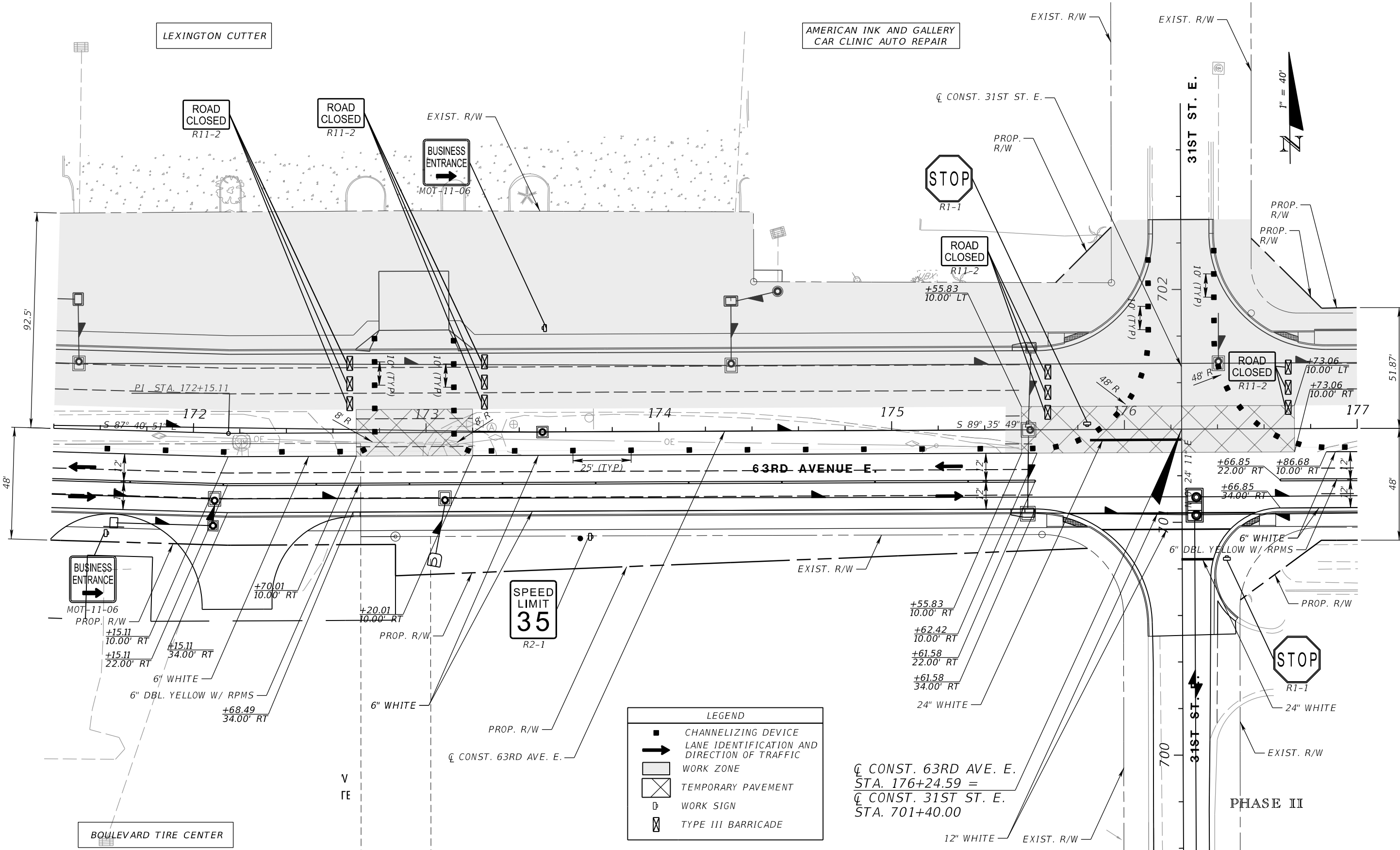
ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

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TEMPORARY TRAFFIC CONTROL PLANS (32)

SHEET NO.

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LEGEND

- CHANNELIZING DEVICE
- ➔ LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- ▨ WORK ZONE
- ▧ TEMPORARY PAVEMENT
- Ⓧ WORK SIGN
- ⓧ TYPE III BARRICADE

Q CONST. 63RD AVE. E.
 STA. 176+24.59 =
 Q CONST. 31ST ST. E.
 STA. 701+40.00

PHASE II

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

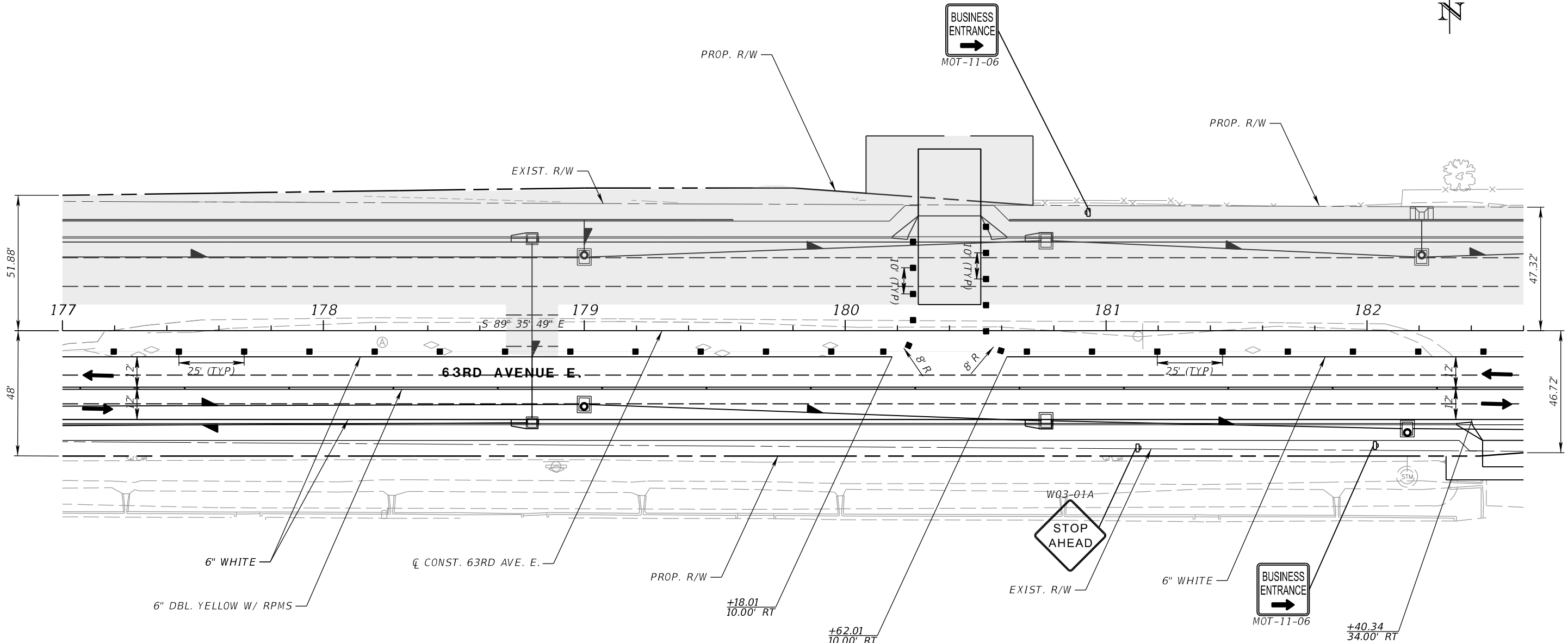
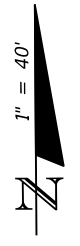
ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

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TEMPORARY TRAFFIC CONTROL PLANS (33)

SHEET NO.

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LEGEND	
■	CHANNELIZING DEVICE
➔	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
▭	WORK ZONE
⊕	WORK SIGN

TRULITE BRADENTON

PHASE II

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

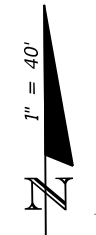
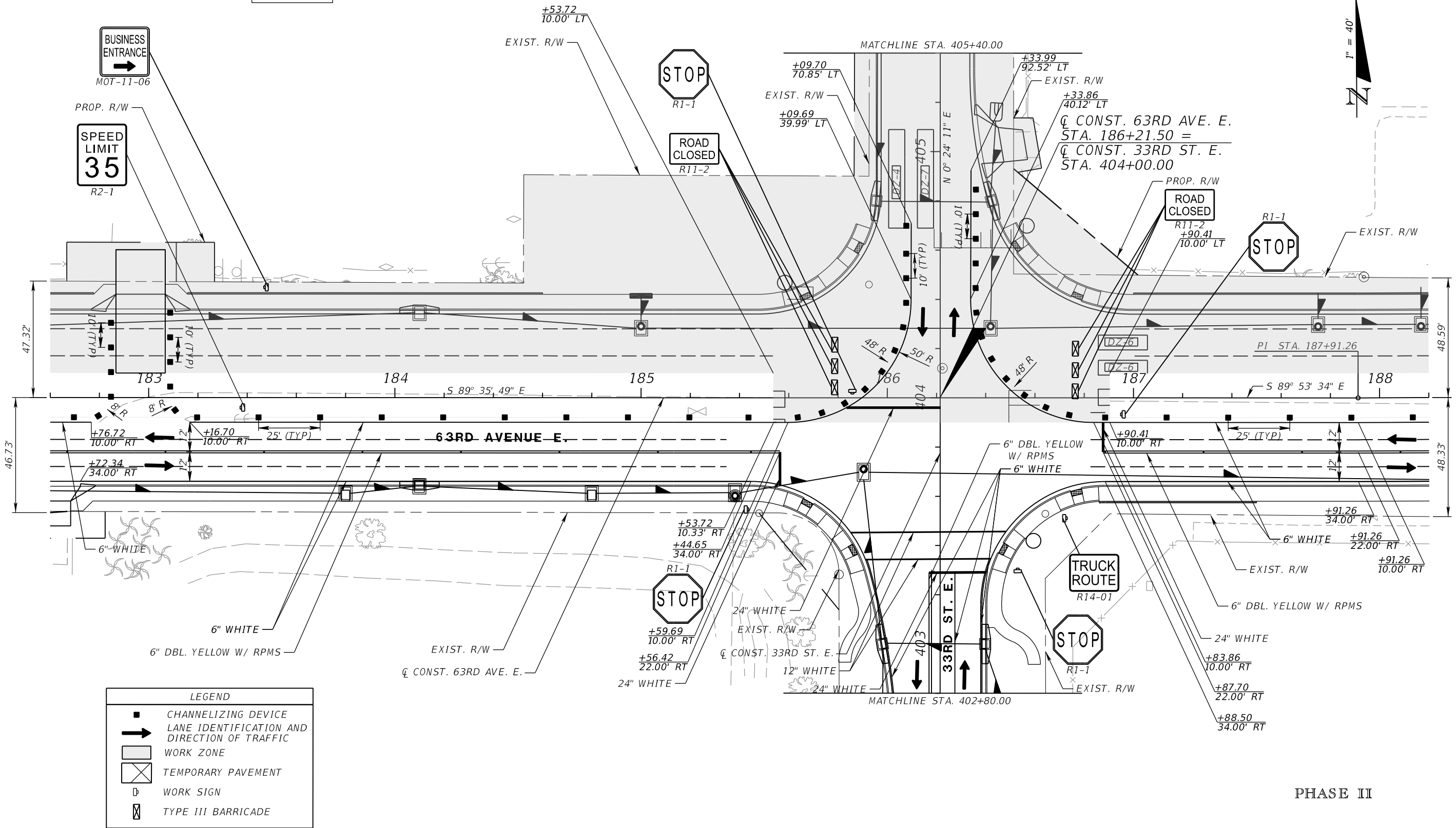
Manatee County PUBLIC WORKS DEPARTMENT
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 1022 26th Avenue East
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TEMPORARY TRAFFIC CONTROL PLANS (34)

SHEET NO.

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GULFSIDE ROOFING INC



LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVEMENT
	WORK SIGN
	TYPE III BARRICADE

PHASE II

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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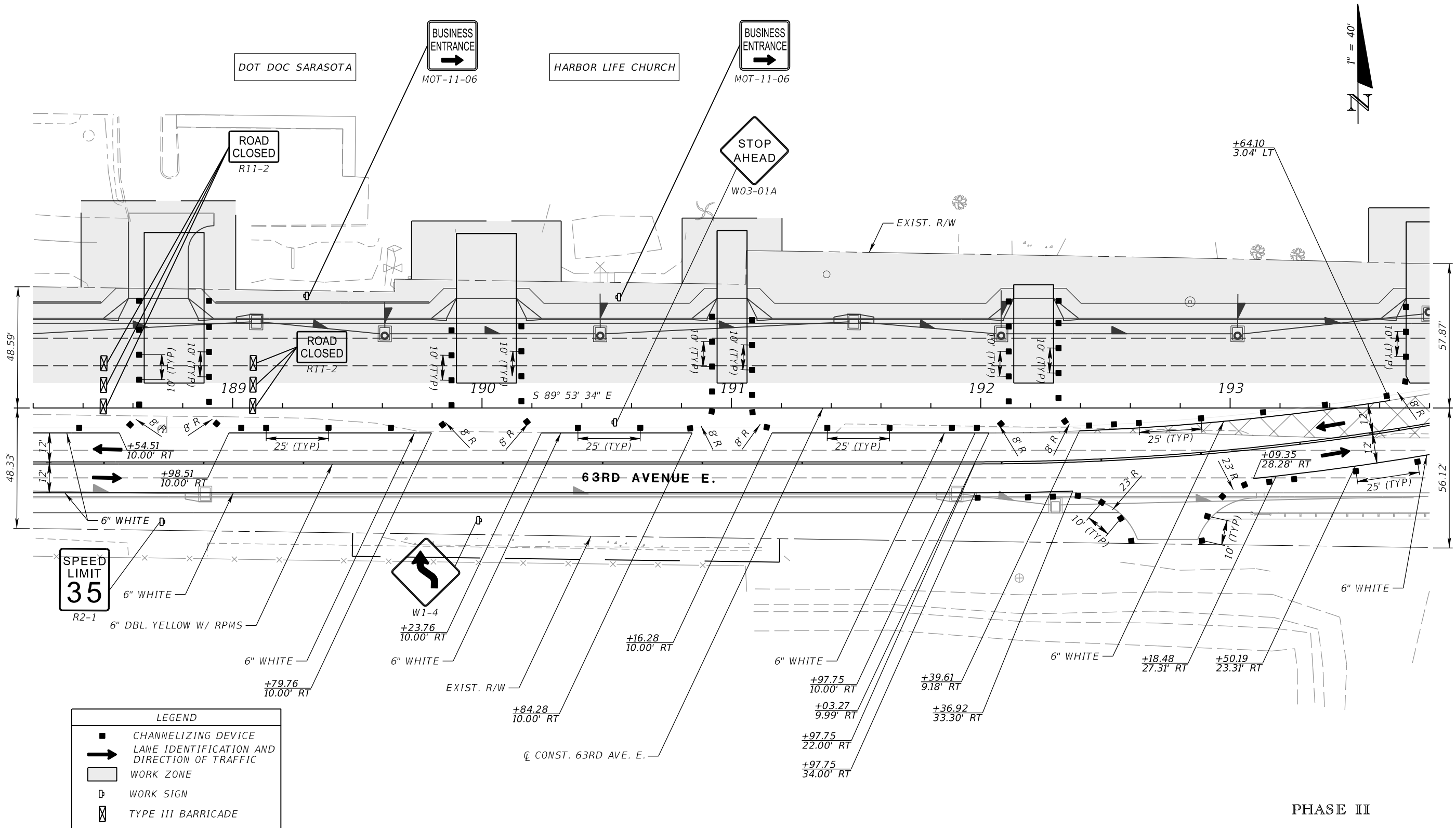
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

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TEMPORARY TRAFFIC CONTROL PLANS (35)

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LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	WORK SIGN
	TYPE III BARRICADE

PHASE II

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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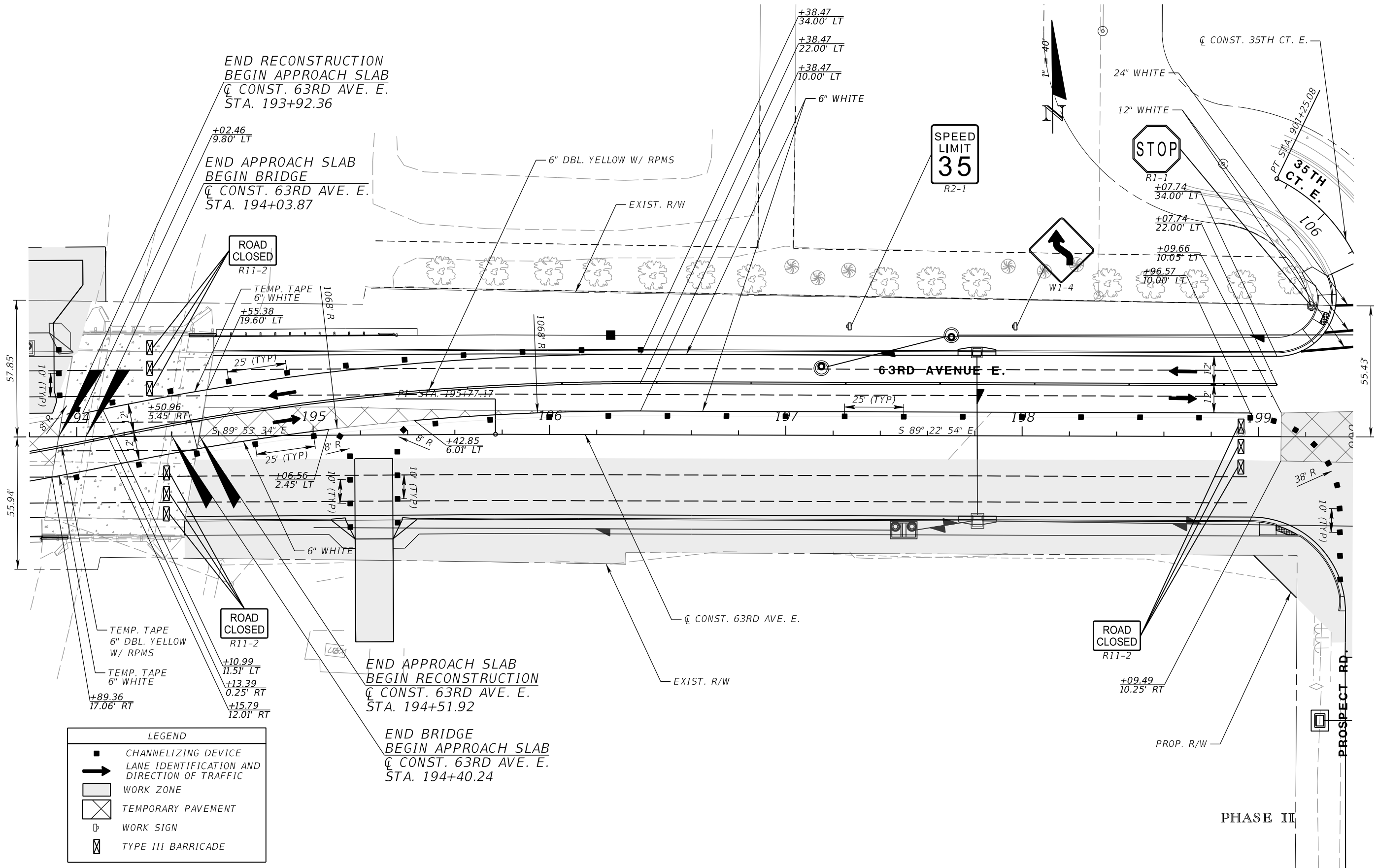
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
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TEMPORARY TRAFFIC CONTROL PLANS (36)

SHEET NO.

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LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVEMENT
	WORK SIGN
	TYPE III BARRICADE

END BRIDGE
BEGIN APPROACH SLAB
Q CONST. 63RD AVE. E.
STA. 194+40.24

END APPROACH SLAB
BEGIN BRIDGE
Q CONST. 63RD AVE. E.
STA. 194+03.87

END RECONSTRUCTION
BEGIN APPROACH SLAB
Q CONST. 63RD AVE. E.
STA. 193+92.36

ROAD CLOSED
R11-2

ROAD CLOSED
R11-2

SPEED LIMIT
35
R2-1

STOP
R1-1

PHASE II

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

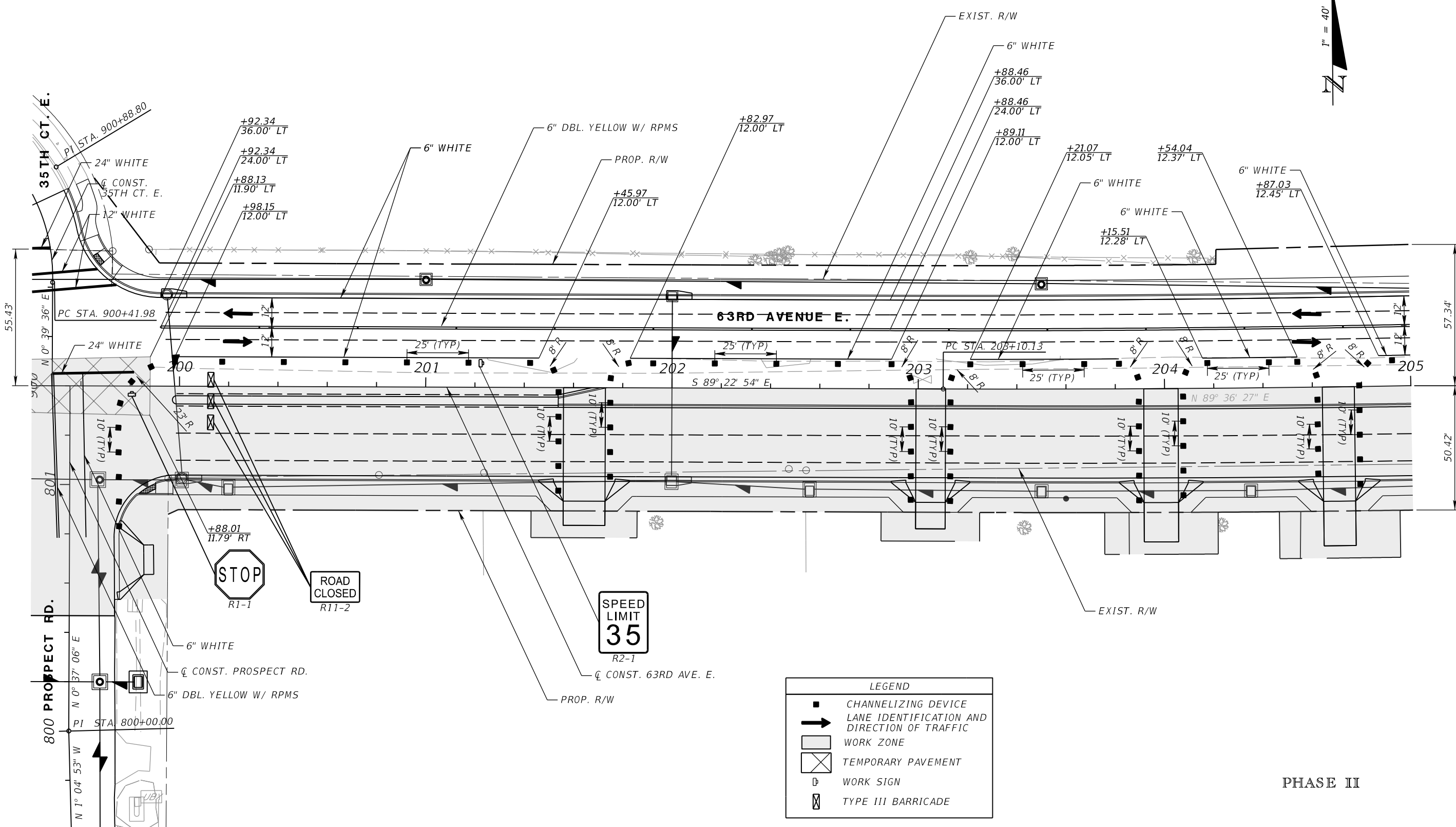
PGA ADAM S. PEREZ, P.E.
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PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
FLORIDA ENGINEERING SERVICES
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TEMPORARY TRAFFIC CONTROL PLANS (37)

SHEET NO.

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LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVEMENT
	WORK SIGN
	TYPE III BARRICADE

PHASE II

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

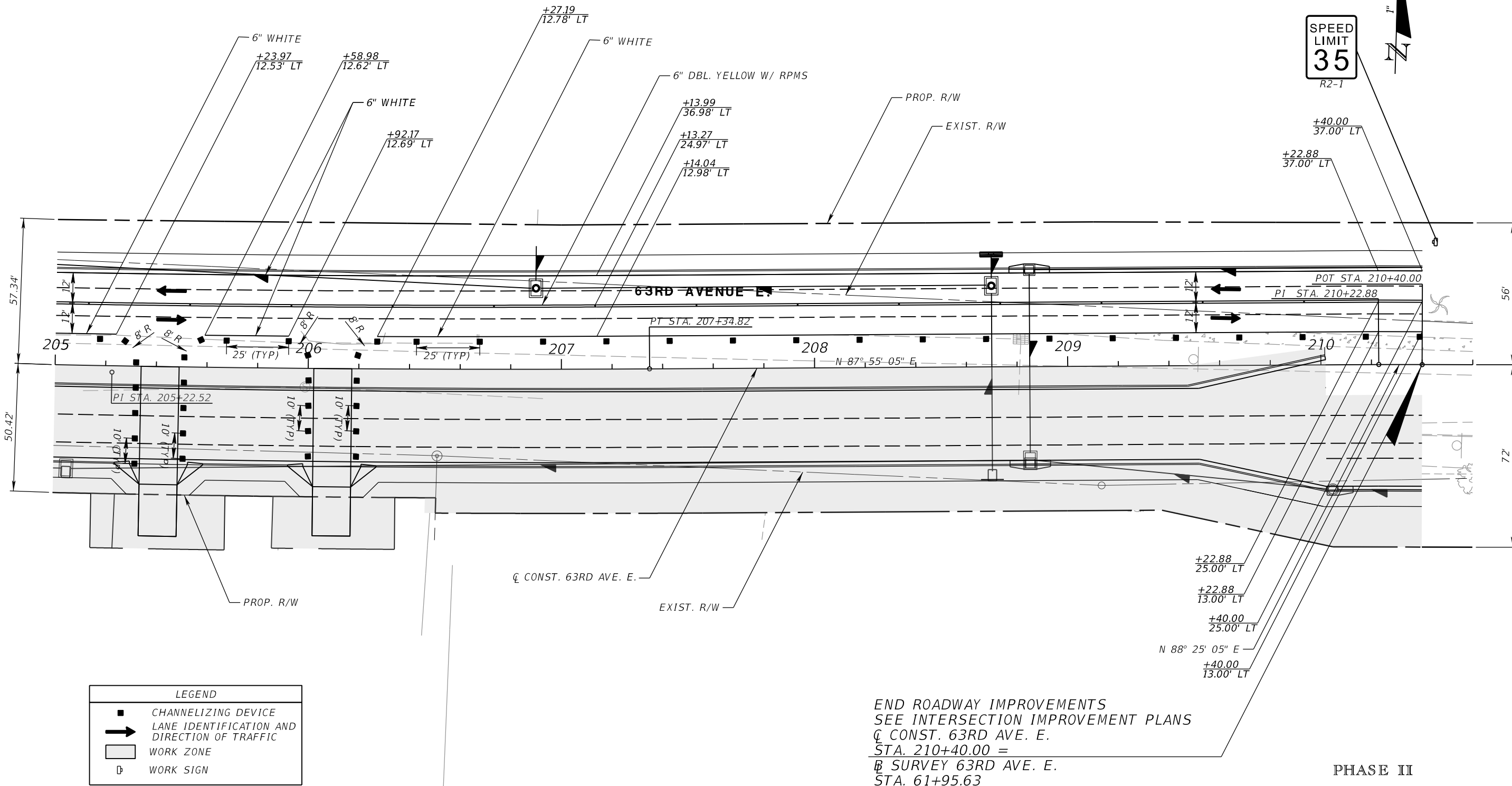
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

TEMPORARY TRAFFIC CONTROL PLANS (38)

SHEET NO.

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SPEED LIMIT
35
R2-1



LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	WORK SIGN

END ROADWAY IMPROVEMENTS
SEE INTERSECTION IMPROVEMENT PLANS
 C CONST. 63RD AVE. E.
 STA. 210+40.00 =
 B SURVEY 63RD AVE. E.
 STA. 61+95.63

PHASE II

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

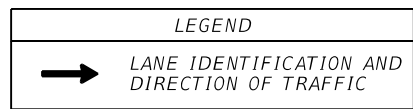
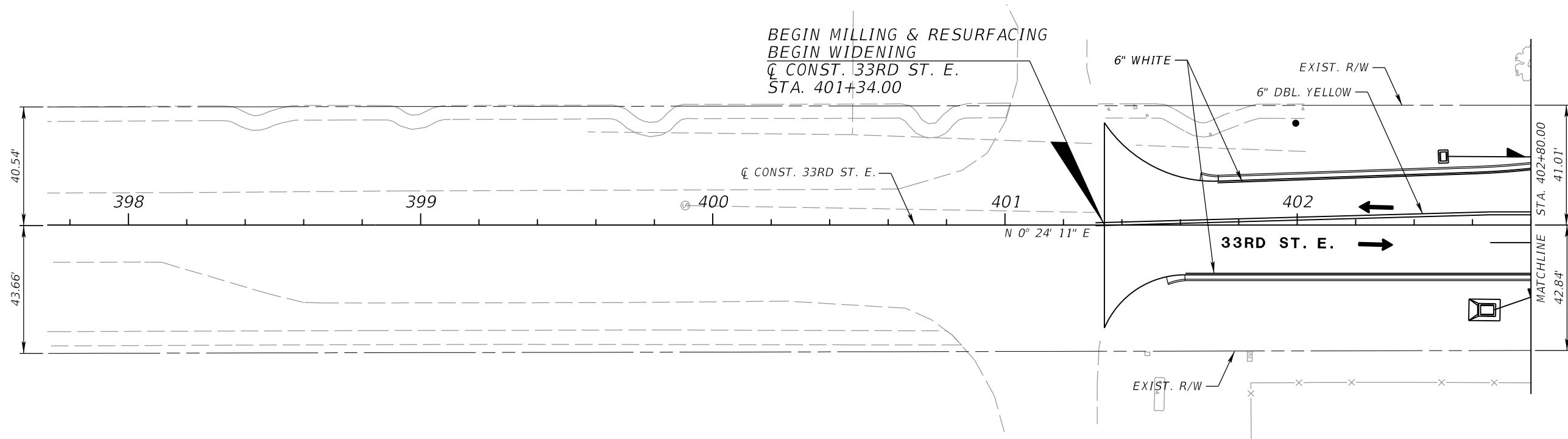
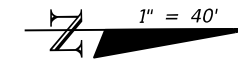
Manatee County PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

TEMPORARY TRAFFIC CONTROL PLANS (39)

SHEET NO.

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

WOODS SUBSTATION



RENOVO RESOURCE SOLUTIONS

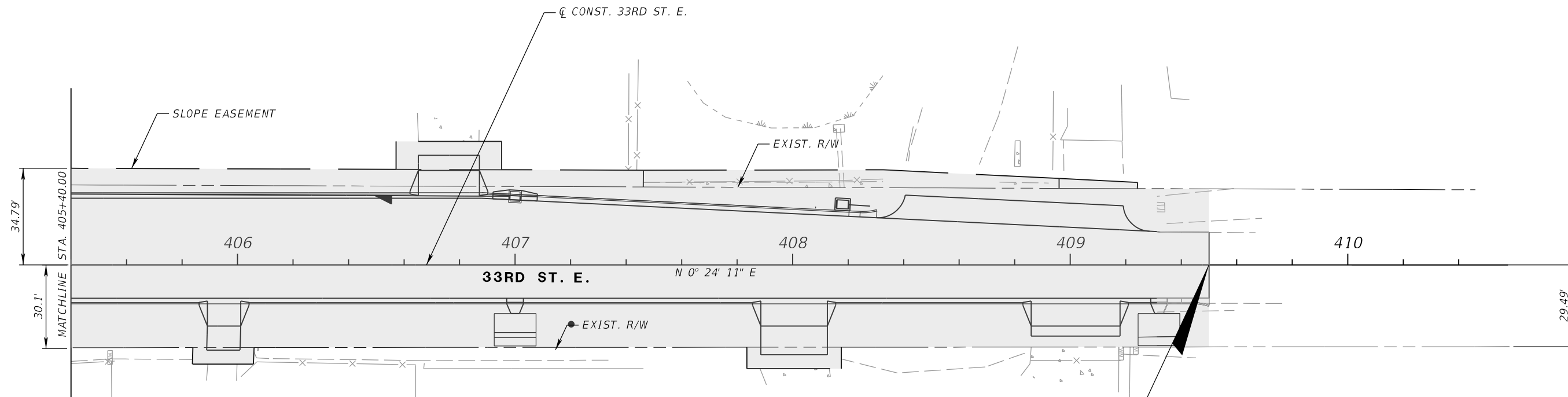
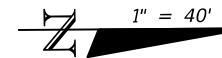
PHASE II
 33RD STREET E.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

TEMPORARY TRAFFIC
 CONTROL PLANS (40)

SHEET NO.

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END MILLING & RESURFACING
 END WIDENING
 Q CONST. 33RD ST. E.
 STA. 409+50.04

TUSKIN TILE

LEGEND	
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE

PHASE II

33RD STREET E.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 FLORIDA PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

**TEMPORARY TRAFFIC
 CONTROL PLANS (41)**

SHEET NO.



LEGEND	
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK SIGN

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

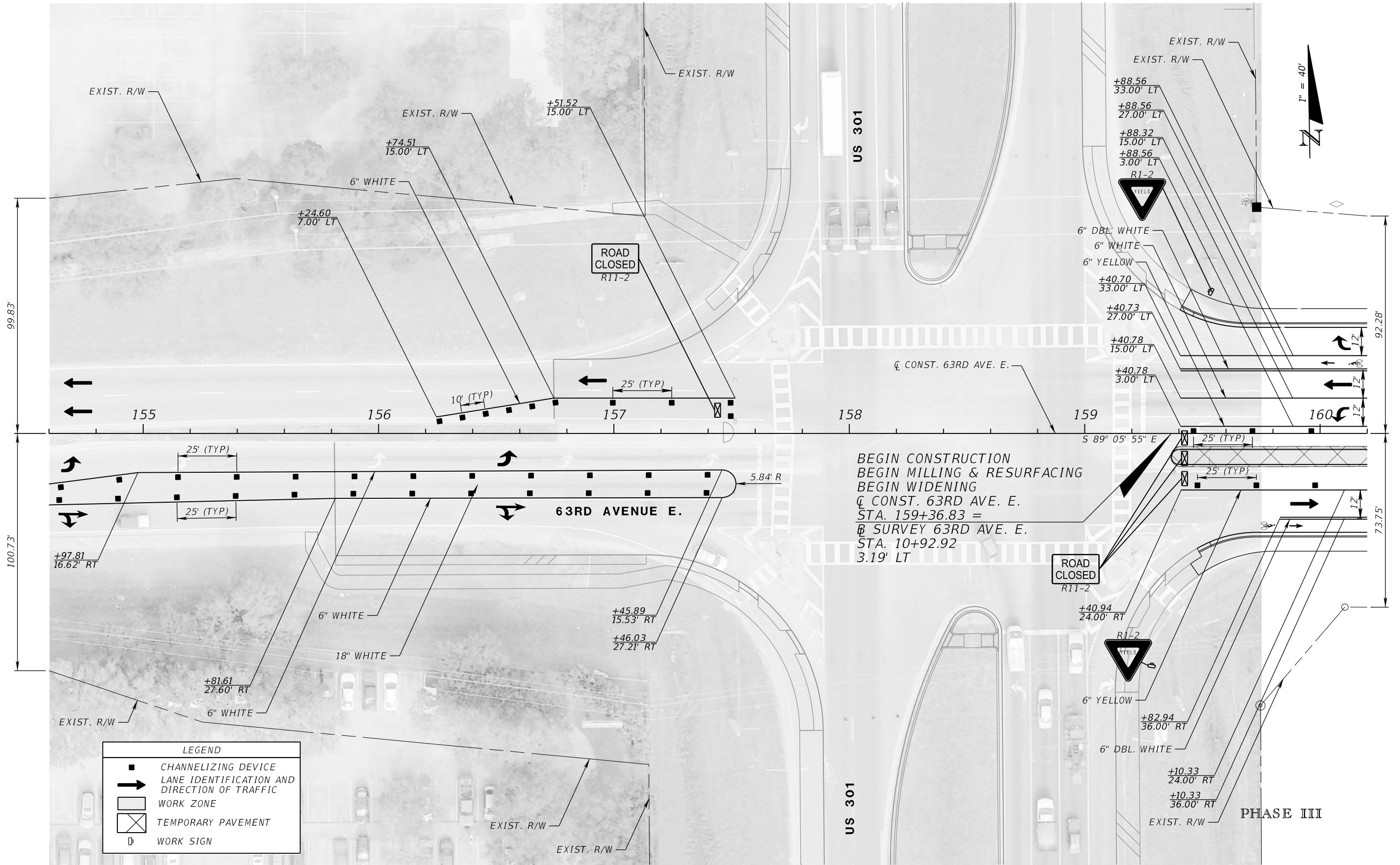
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
 FLORIDA ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

TEMPORARY TRAFFIC CONTROL PLANS (42)

SHEET NO.

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BEGIN CONSTRUCTION
 BEGIN MILLING & RESURFACING
 BEGIN WIDENING
 C CONST. 63RD AVE. E.
 STA. 159+36.83 =
 B SURVEY 63RD AVE. E.
 STA. 10+92.92
 3.19' LT

LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVEMENT
	WORK SIGN

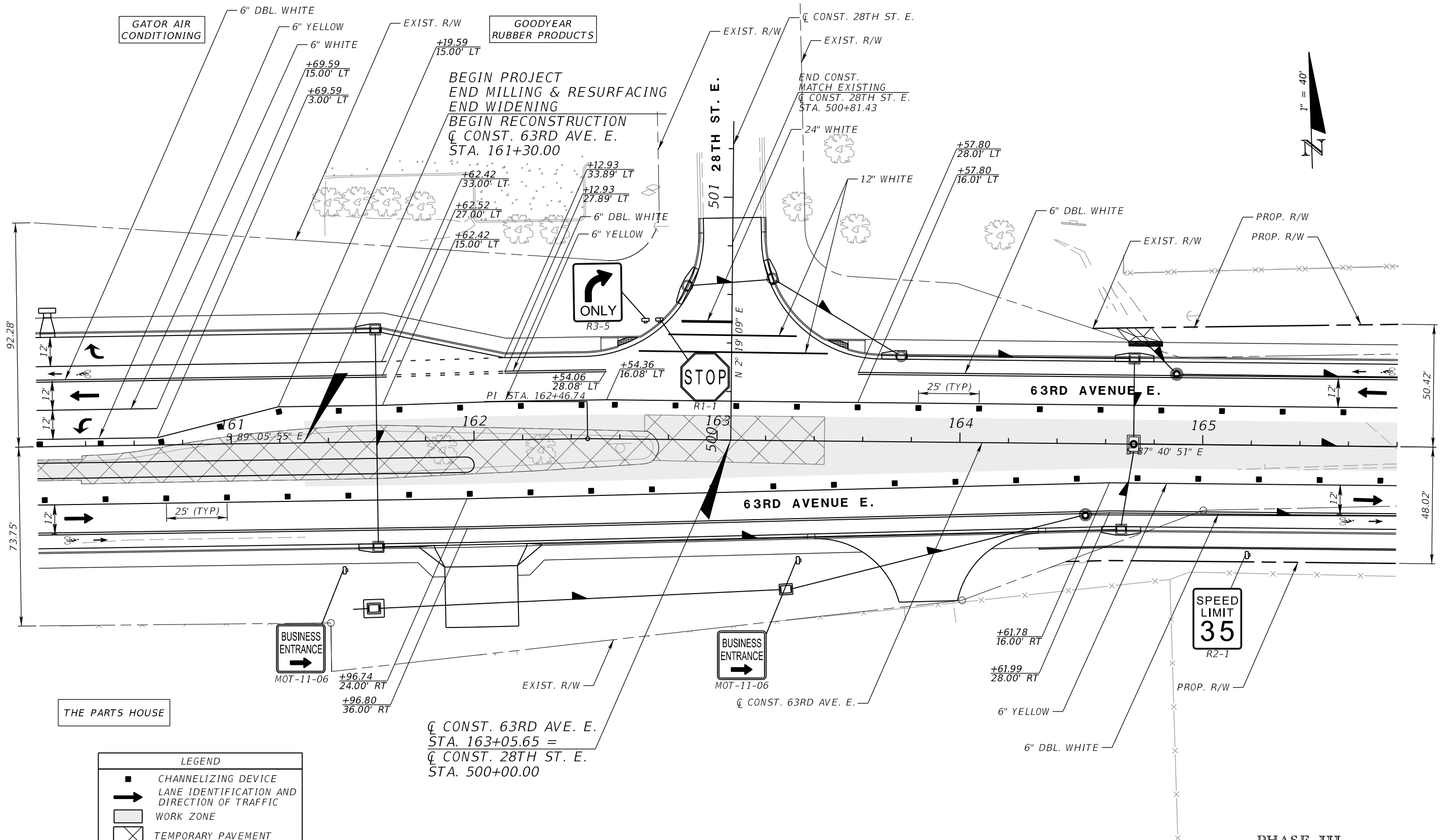
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
 FLORIDA ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

TEMPORARY TRAFFIC CONTROL PLANS (43)

SHEET NO.

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LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVEMENT
	WORK SIGN

FORRISTALL ENTERPRISES, INC

PHASE III

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

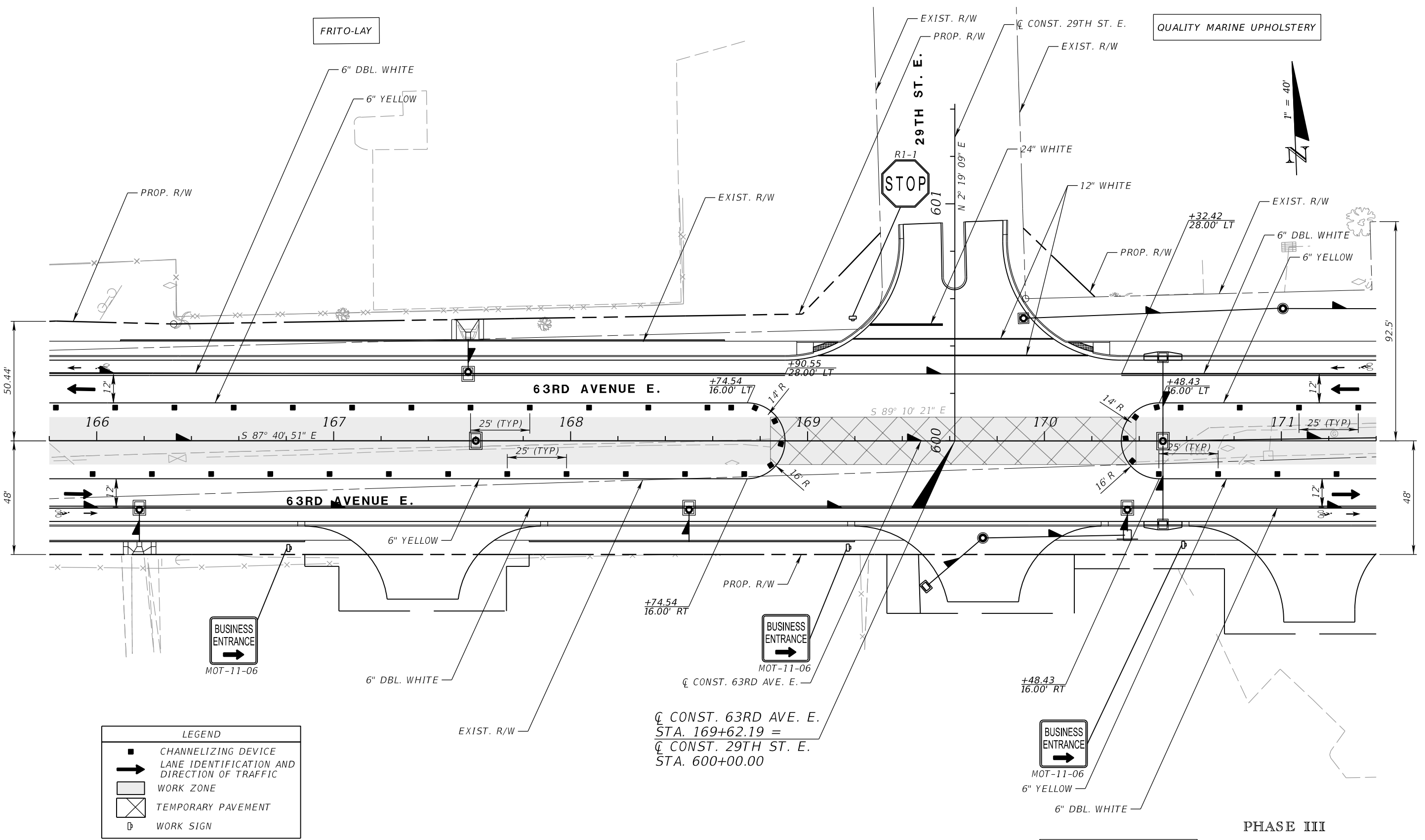
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

TEMPORARY TRAFFIC CONTROL PLANS (44)

SHEET NO.

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LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVEMENT
	WORK SIGN

BUSINESS ENTRANCE
MOT-11-06

BUSINESS ENTRANCE
MOT-11-06

BUSINESS ENTRANCE
MOT-11-06

SUPERIOR POOL PRODUCTS

PHASE III

CL CONST. 63RD AVE. E.
STA. 169+62.19 =
CL CONST. 29TH ST. E.
STA. 600+00.00

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

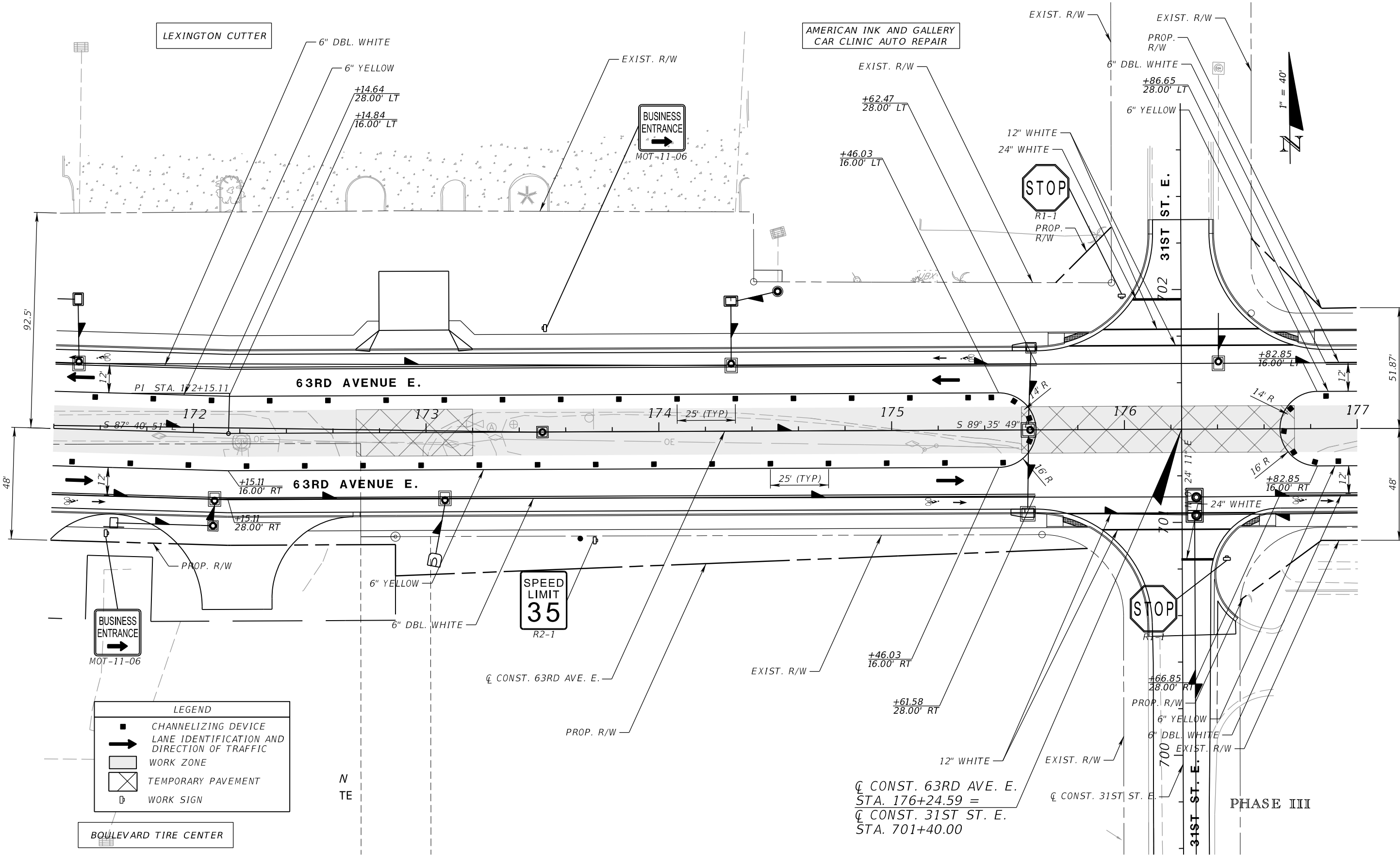
PGA
ADAM S. PEREZ, P.E.
LICENSE NUMBER 56066
PATEL, GREENE & ASSOCIATES, LLC
12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637

Manatee County
FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

TEMPORARY TRAFFIC CONTROL PLANS (45)

SHEET NO.

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LEGEND

- CHANNELIZING DEVICE
- ➔ LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- ▨ WORK ZONE
- ▧ TEMPORARY PAVEMENT
- Ⓧ WORK SIGN

Q CONST. 63RD AVE. E.
 STA. 176+24.59 =
 Q CONST. 31ST ST. E.
 STA. 701+40.00

PHASE III

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

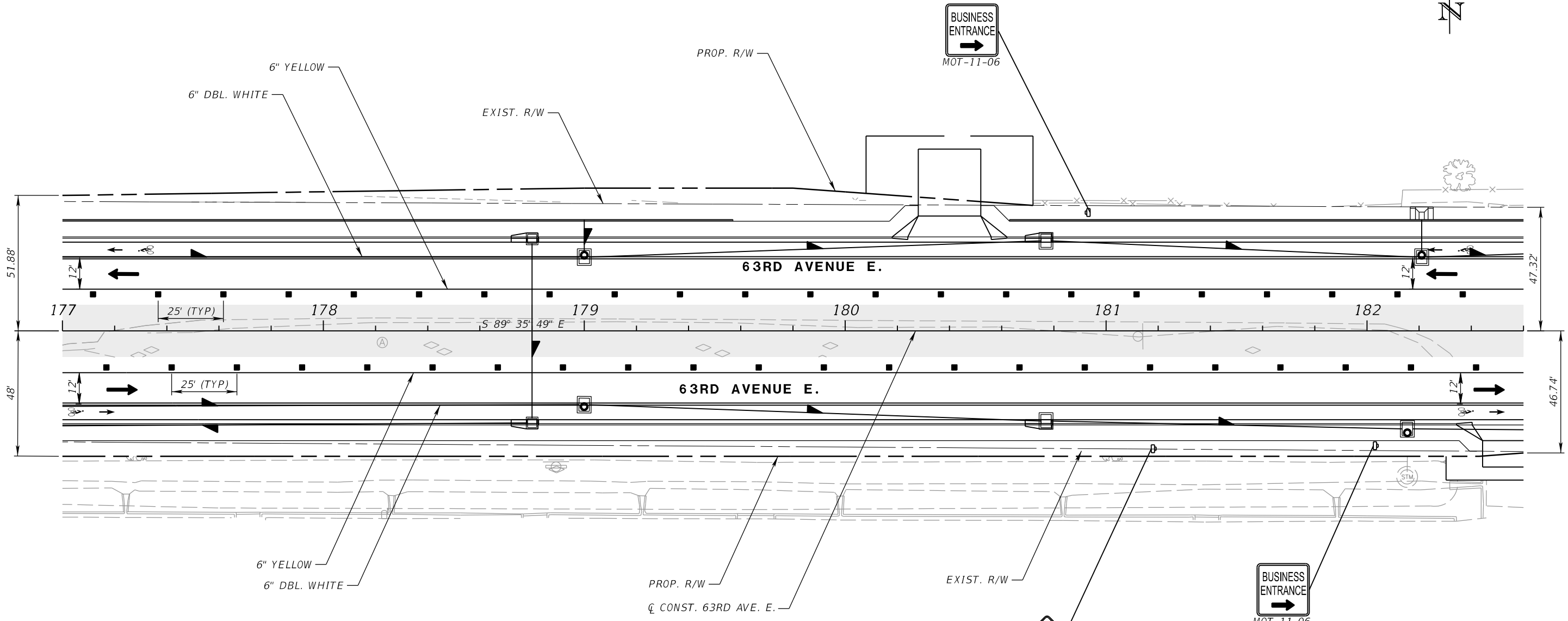
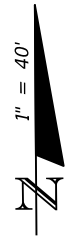

ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637


PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

TEMPORARY TRAFFIC CONTROL PLANS (46)

SHEET NO.

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LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	WORK SIGN

TRULITE BRADENTON

PHASE III

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

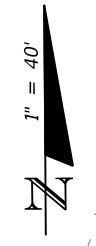
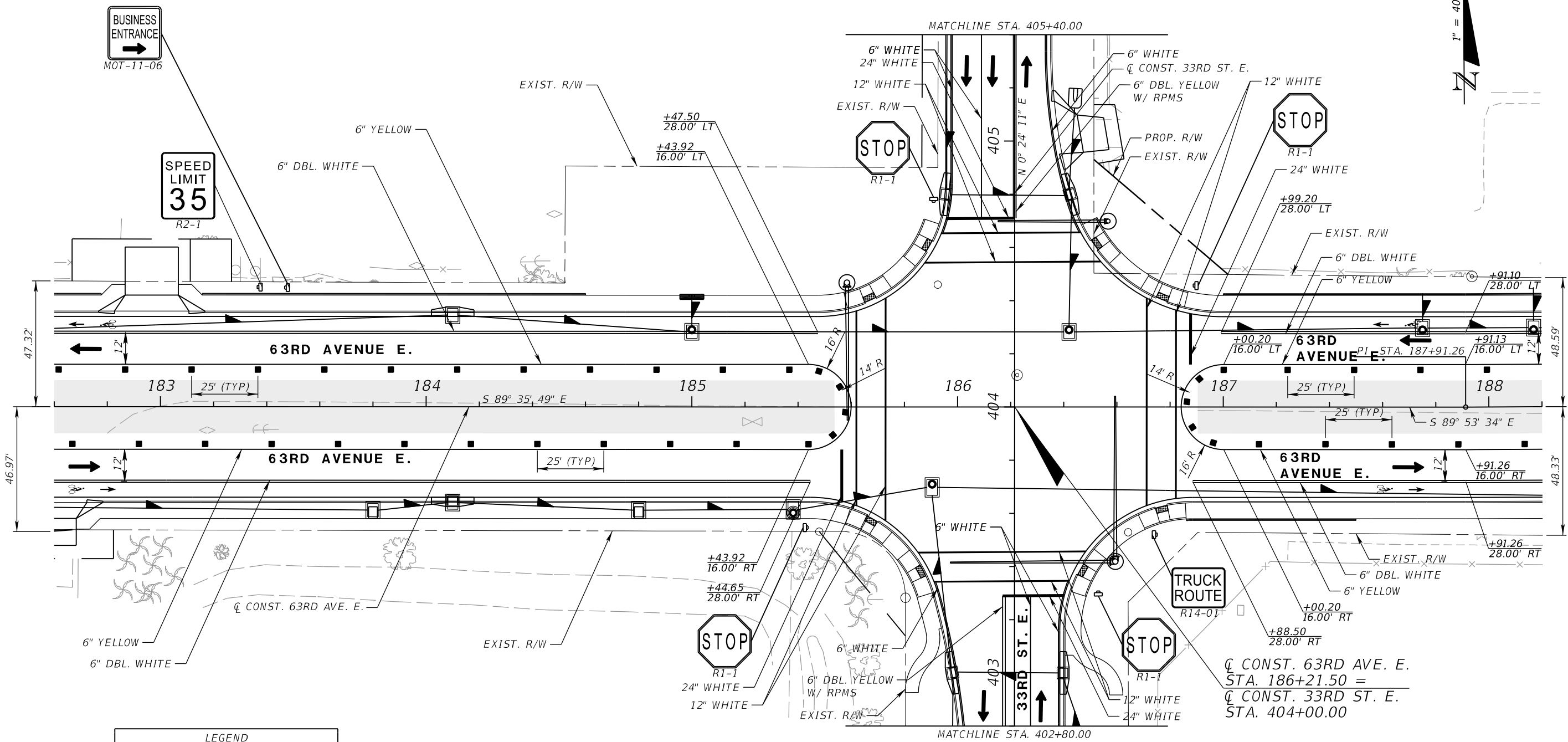
Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

TEMPORARY TRAFFIC CONTROL PLANS (47)

SHEET NO.

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GULFSIDE
ROOFING INC



LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	WORK SIGN

PHASE III

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

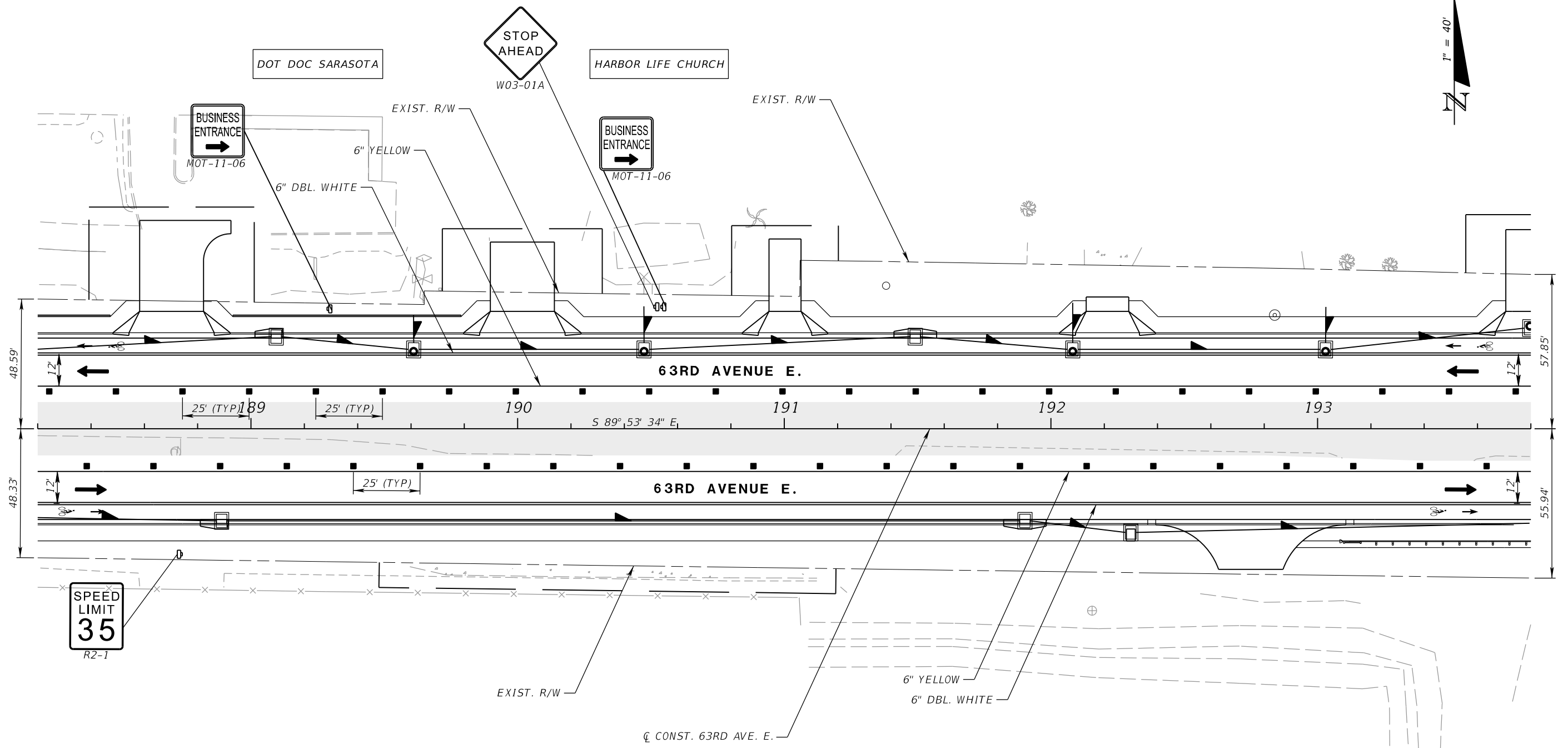
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
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 1022 26th Avenue East
 Bradenton, FL 34208

**TEMPORARY TRAFFIC
 CONTROL PLANS (48)**

SHEET NO.

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LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	WORK SIGN

PHASE III

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

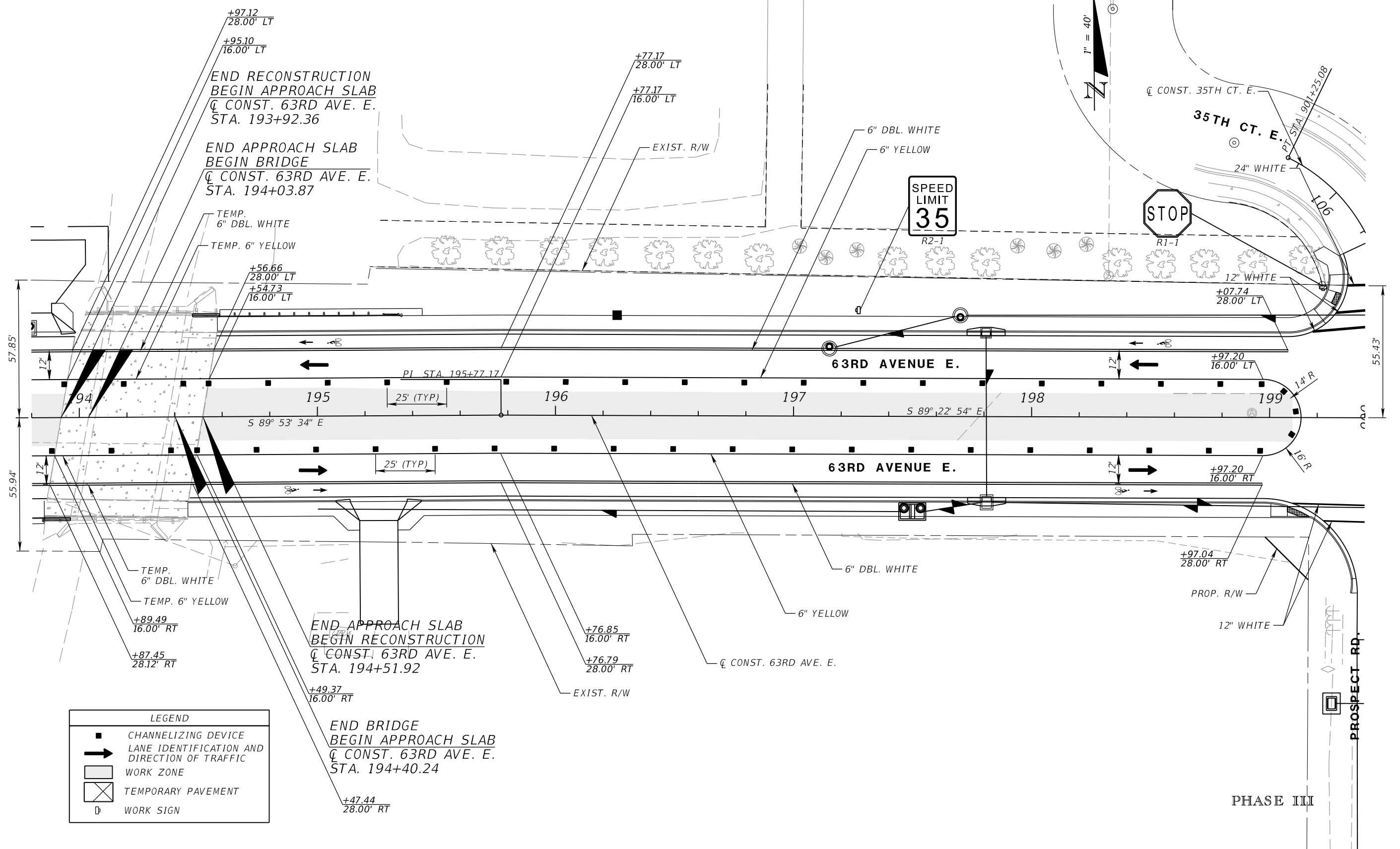
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
 FLORIDA ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

TEMPORARY TRAFFIC CONTROL PLANS (49)

SHEET NO.

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LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVEMENT
	WORK SIGN

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				JM	PROJECT NO.
				JPH	6107860

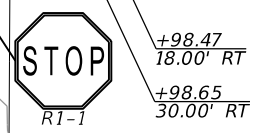
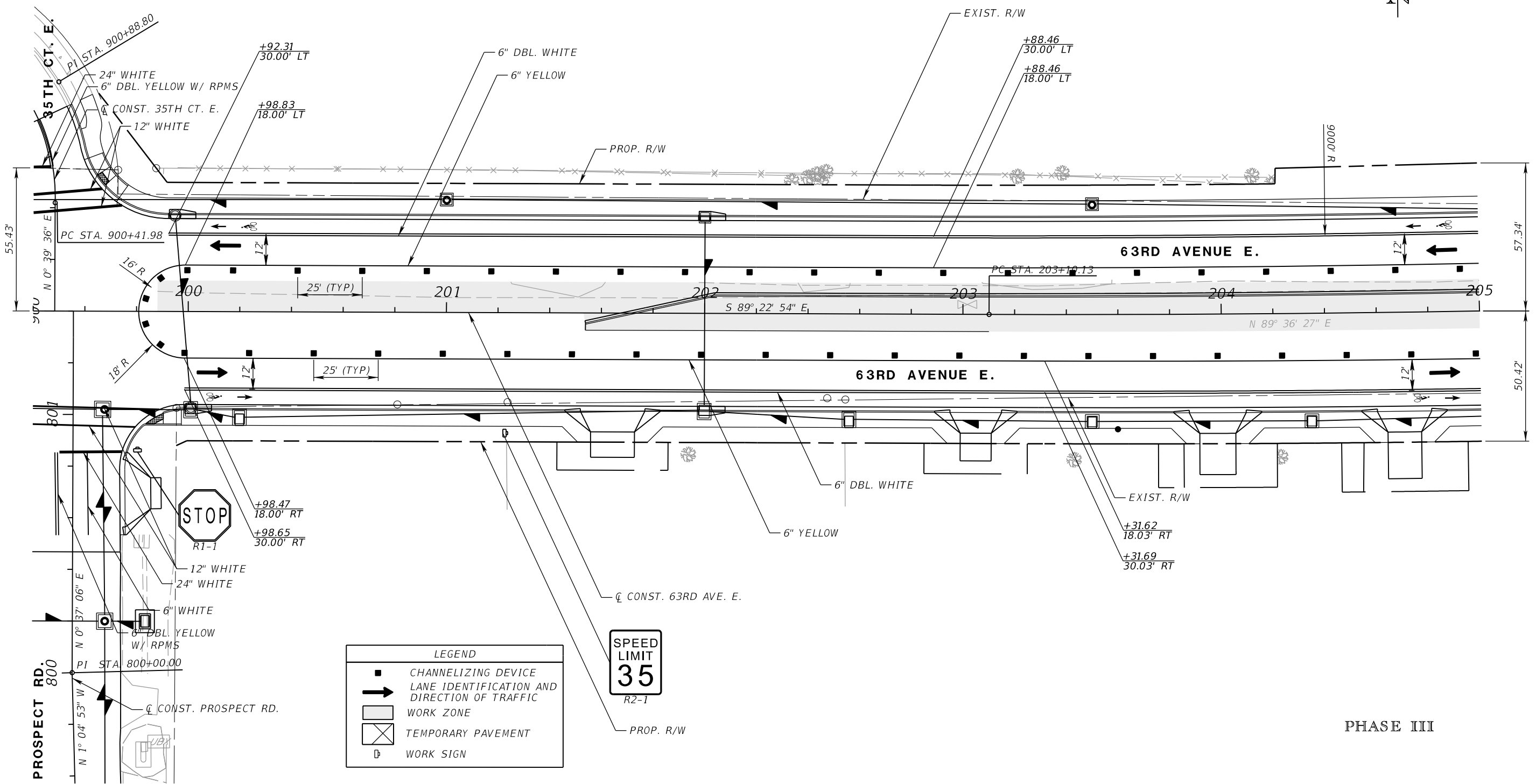
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County PUBLIC WORKS DEPARTMENT
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 Bradenton, FL 34208

TEMPORARY TRAFFIC CONTROL PLANS (50)

SHEET NO.

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LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVEMENT
	WORK SIGN

PHASE III

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				JM	PROJECT NO.
				JPH	6107860

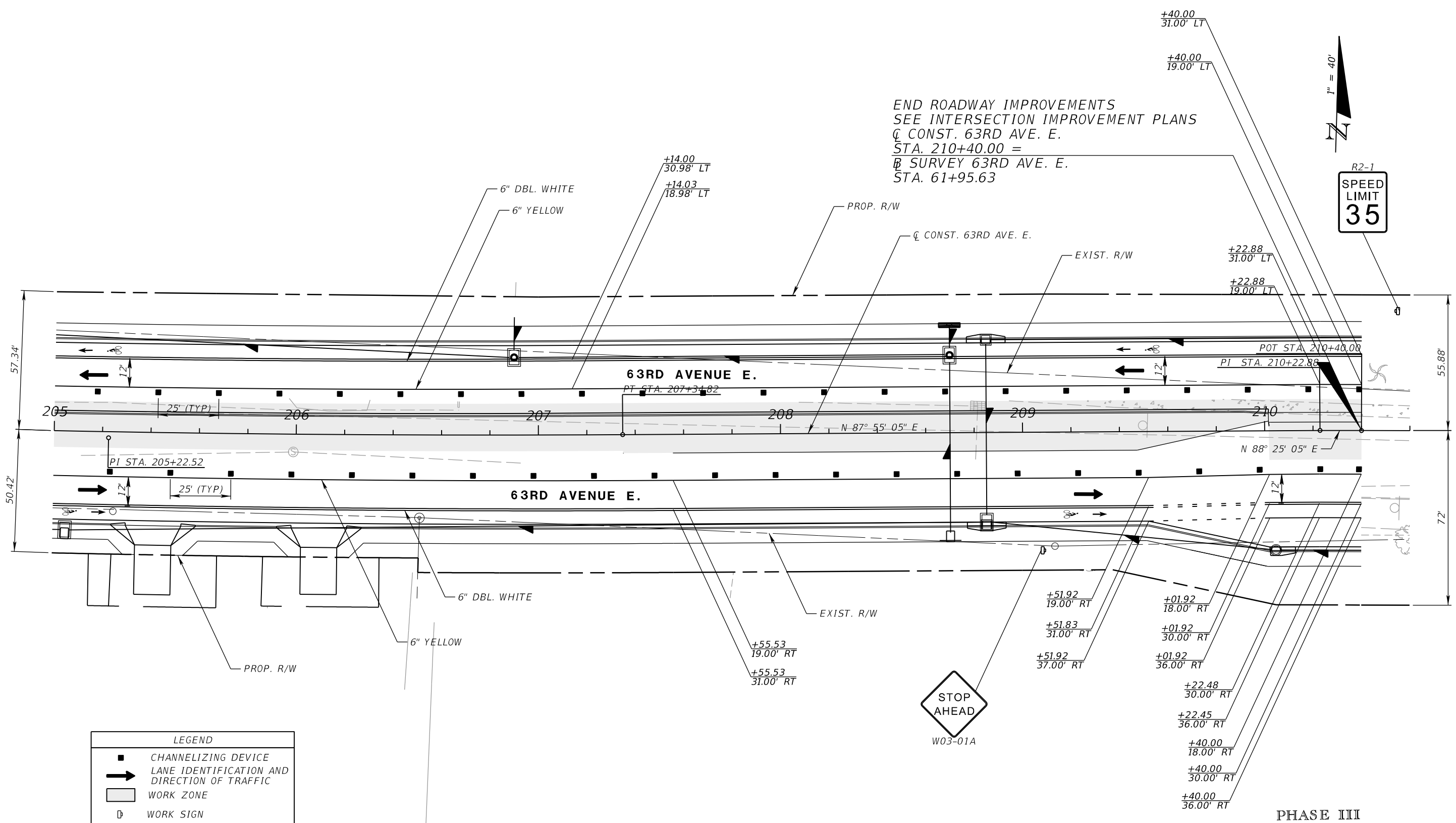
PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

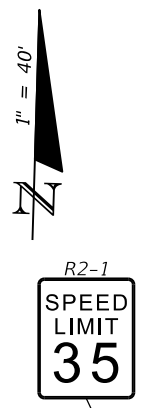
TEMPORARY TRAFFIC CONTROL PLANS (51)

SHEET NO.

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END ROADWAY IMPROVEMENTS
 SEE INTERSECTION IMPROVEMENT PLANS
 @ CONST. 63RD AVE. E.
 STA. 210+40.00 =
 @ SURVEY 63RD AVE. E.
 STA. 61+95.63



LEGEND	
	CHANNELIZING DEVICE
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
	WORK ZONE
	WORK SIGN

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

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 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

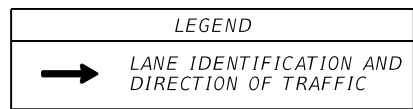
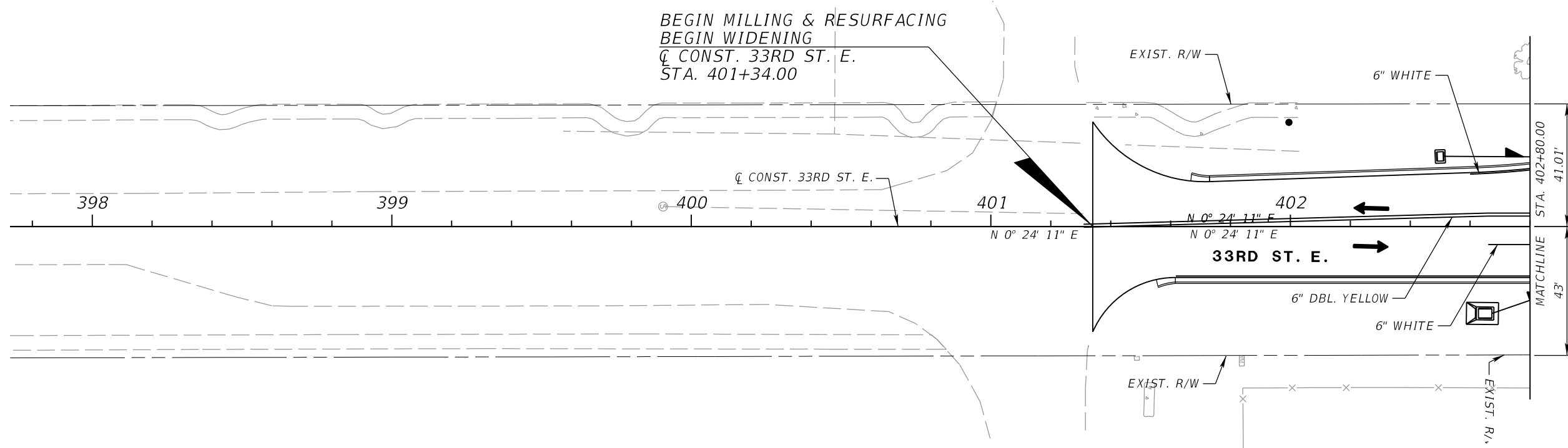
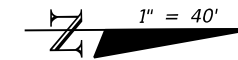
Manatee County PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

TEMPORARY TRAFFIC CONTROL PLANS (52)

SHEET NO.

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WOODS SUBSTATION



RENOVO RESOURCE SOLUTIONS

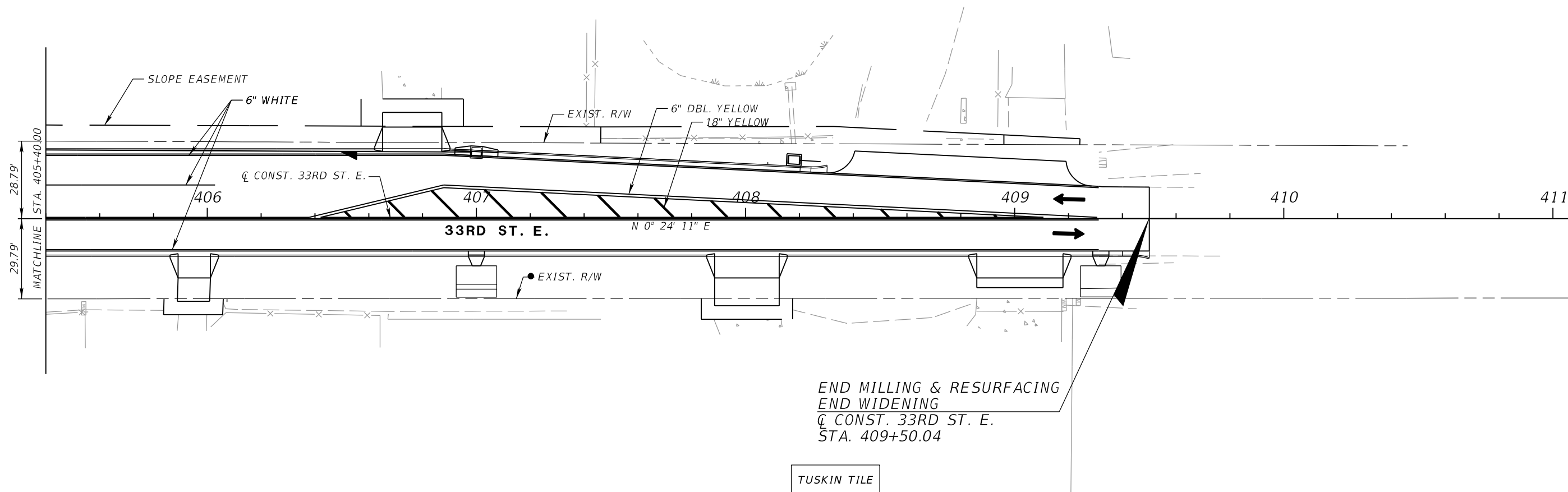
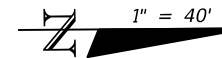
PHASE III
33RD STREET E.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

TEMPORARY TRAFFIC
CONTROL PLANS (53)

SHEET NO.

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END MILLING & RESURFACING
 END WIDENING
 C.C. CONST. 33RD ST. E.
 STA. 409+50.04

TUSKIN TILE

LEGEND	
	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC

PHASE III
 33RD STREET E.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

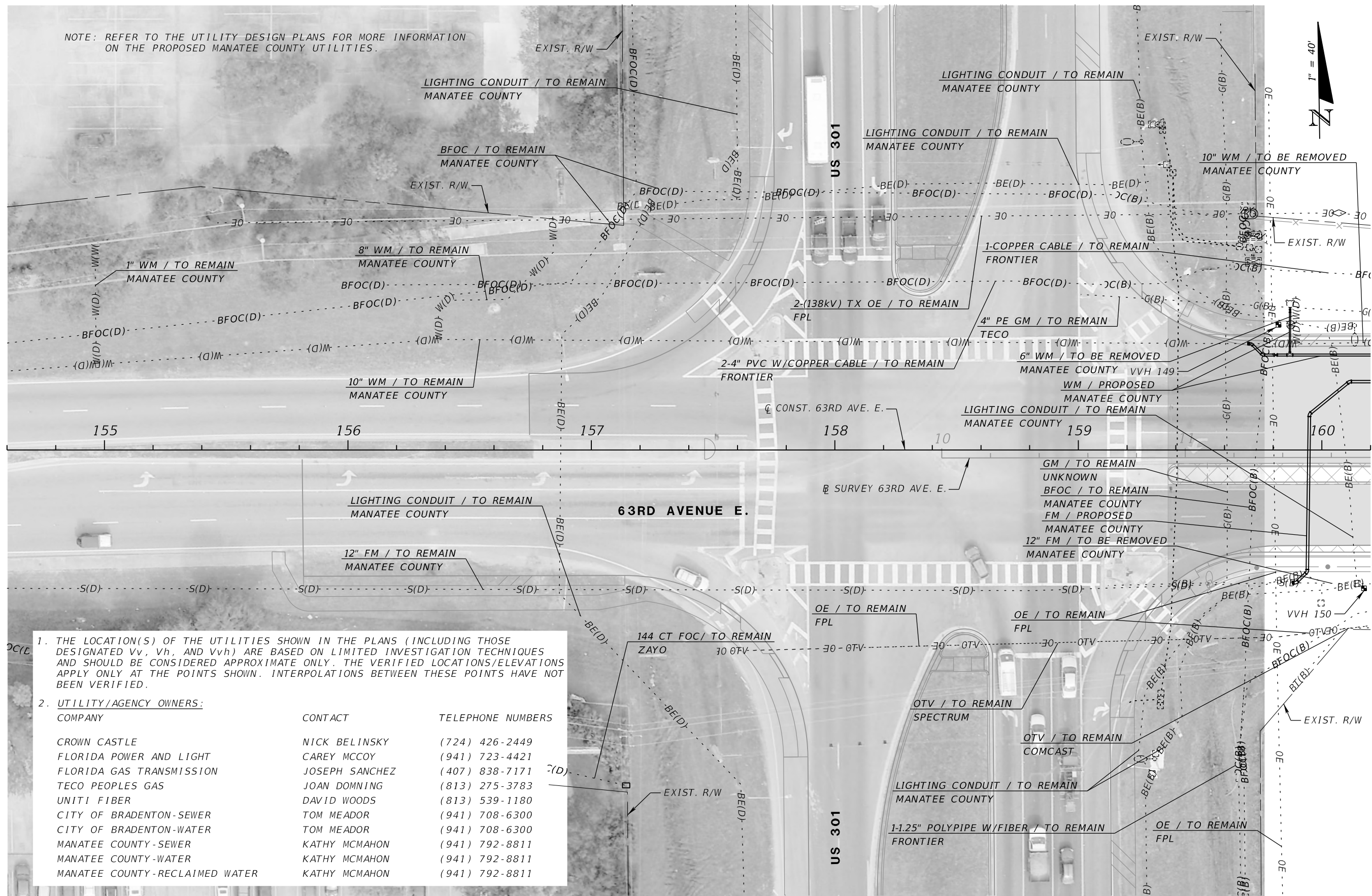
Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

TEMPORARY TRAFFIC
 CONTROL PLANS (54)

SHEET NO.


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NOTE: REFER TO THE UTILITY DESIGN PLANS FOR MORE INFORMATION ON THE PROPOSED MANATEE COUNTY UTILITIES.



- THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
 - UTILITY/AGENCY OWNERS:
- | COMPANY | CONTACT | TELEPHONE NUMBERS |
|--------------------------------|----------------|-------------------|
| CROWN CASTLE | NICK BELINSKY | (724) 426-2449 |
| FLORIDA POWER AND LIGHT | CAREY MCCOY | (941) 723-4421 |
| FLORIDA GAS TRANSMISSION | JOSEPH SANCHEZ | (407) 838-7171 |
| TECO PEOPLES GAS | JOAN DOMNING | (813) 275-3783 |
| UNITI FIBER | DAVID WOODS | (813) 539-1180 |
| CITY OF BRADENTON-SEWER | TOM MEADOR | (941) 708-6300 |
| CITY OF BRADENTON-WATER | TOM MEADOR | (941) 708-6300 |
| MANATEE COUNTY-SEWER | KATHY MCMAHON | (941) 792-8811 |
| MANATEE COUNTY-WATER | KATHY MCMAHON | (941) 792-8811 |
| MANATEE COUNTY-RECLAIMED WATER | KATHY MCMAHON | (941) 792-8811 |

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				JM	PROJECT NO.
				JPH	6107860



ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

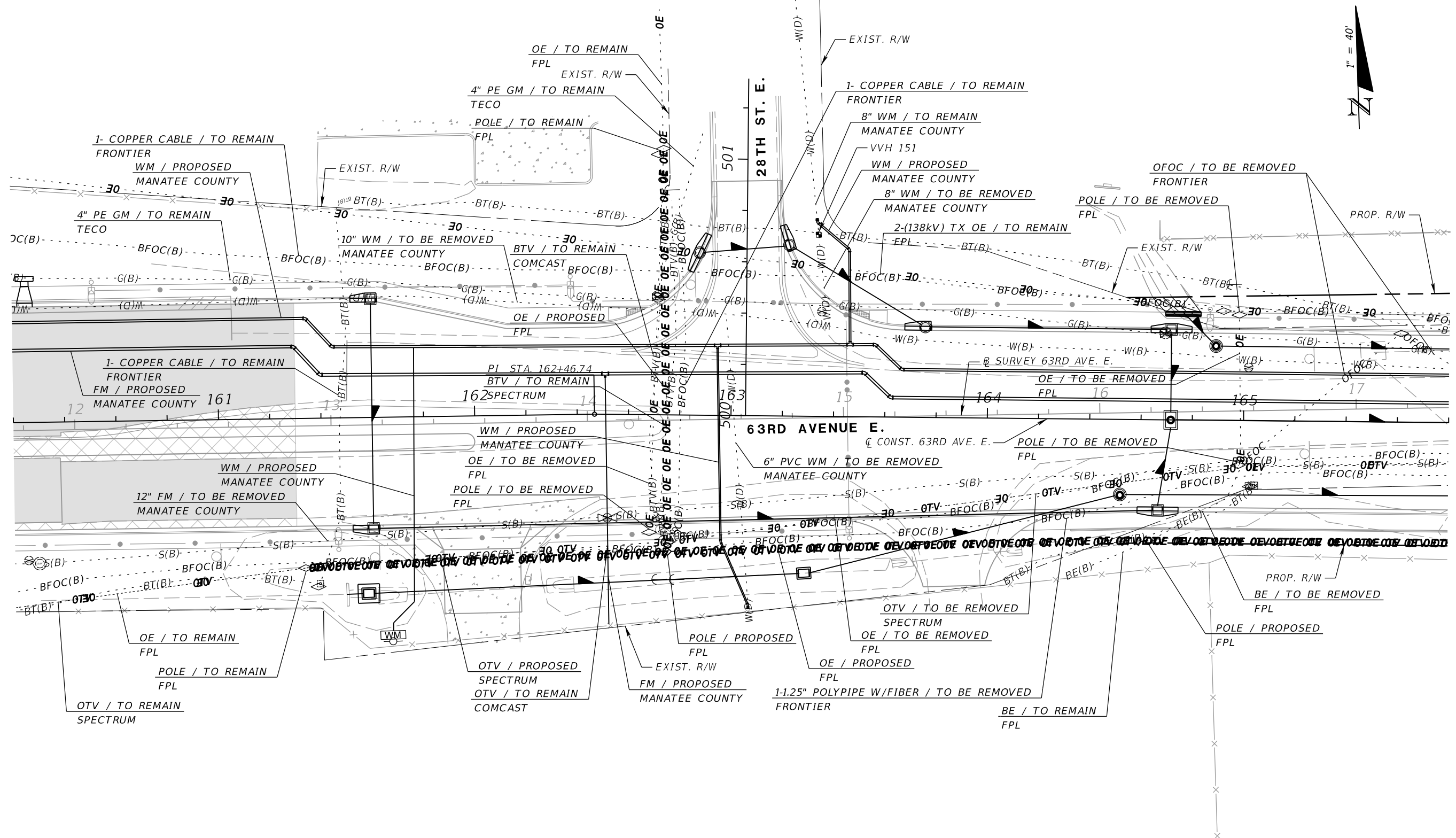


PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

UTILITY ADJUSTMENTS (1)

SHEET NO.

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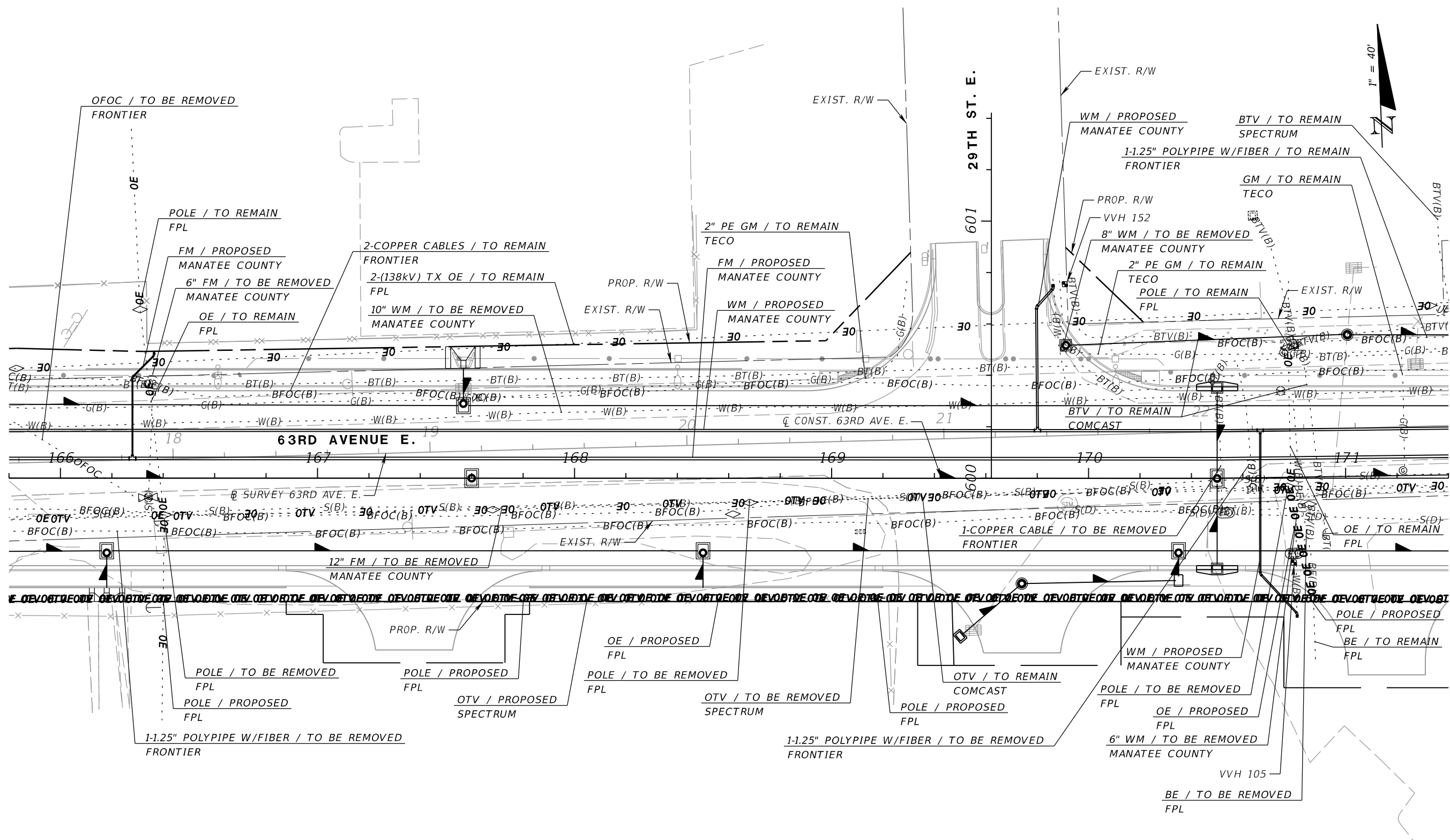
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

UTILITY ADJUSTMENTS (2)

SHEET NO.



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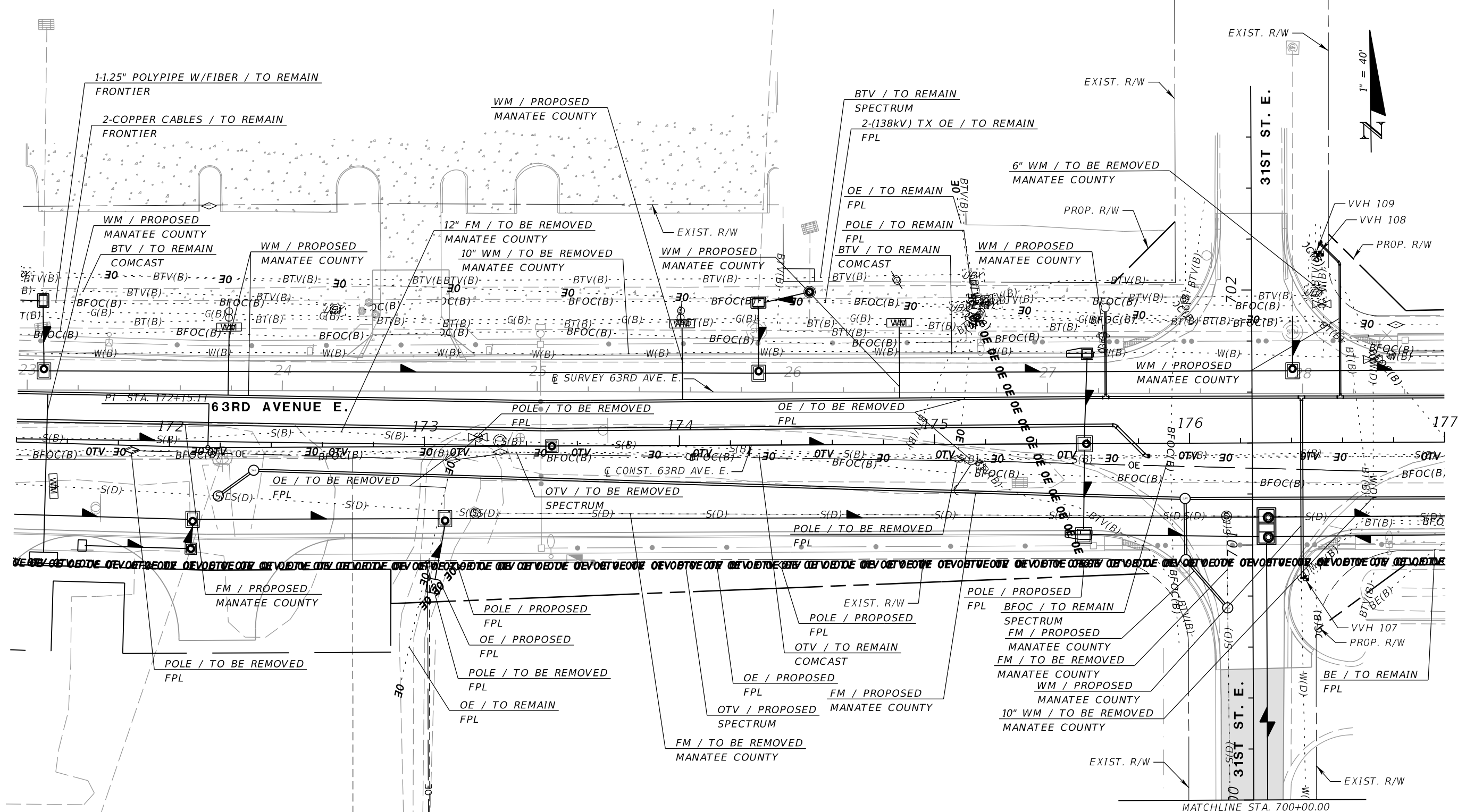
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

PGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

UTILITY ADJUSTMENTS (3)

SHEET NO.



NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

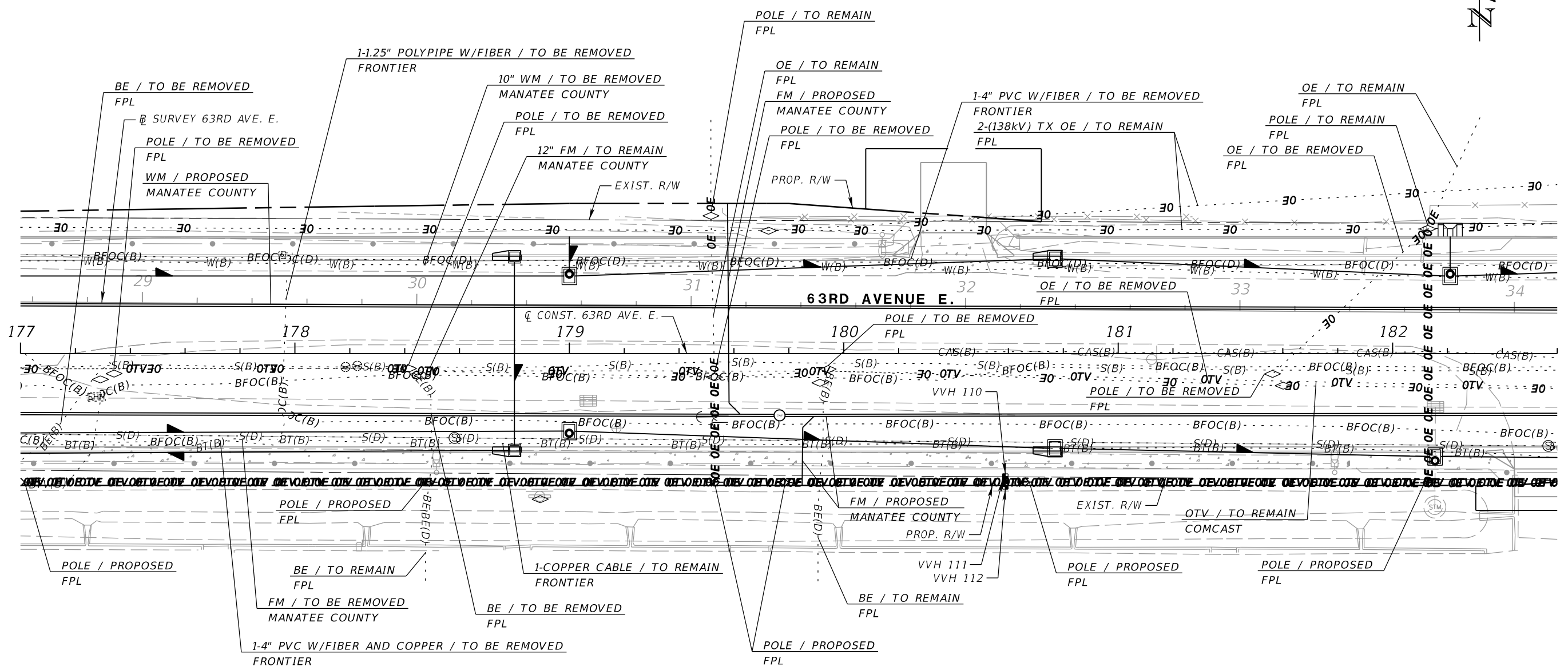
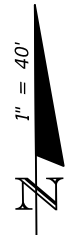
PGA ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

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UTILITY ADJUSTMENTS (4)

SHEET NO.

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NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			CHECKED BY	JPH	6107860

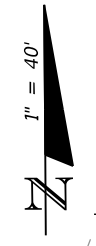
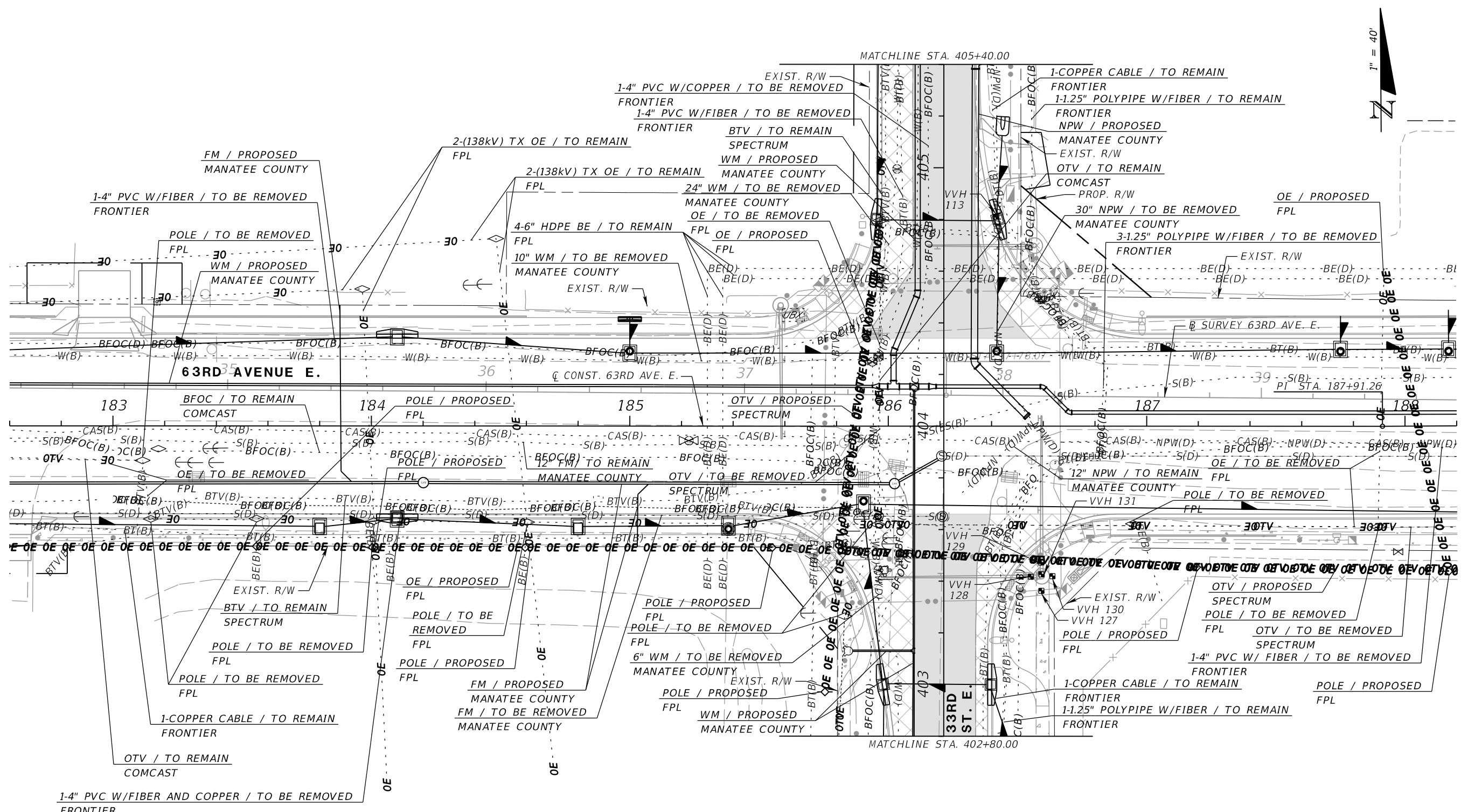
PGA
 ADAM S. PEREZ, P.E.
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UTILITY ADJUSTMENTS (5)

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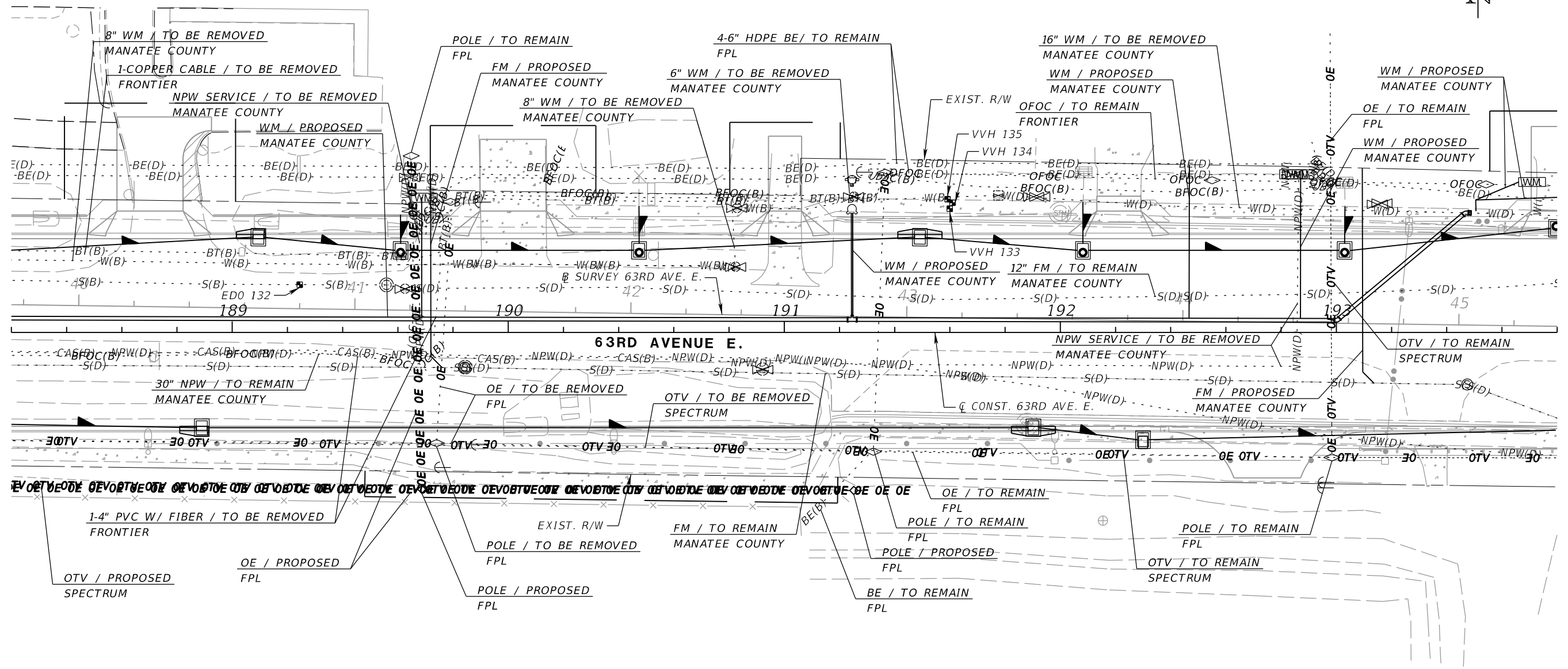
RGA
 ADAM S. PEREZ, P.E.
 LICENSE NUMBER 56066
 PATEL, GREENE & ASSOCIATES, LLC
 12570 TELECOM DRIVE
 TEMPLE TERRACE, FL 33637

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UTILITY ADJUSTMENTS (6)

SHEET NO.

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			CHECKED BY	JPH	6107860

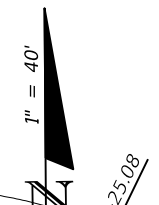
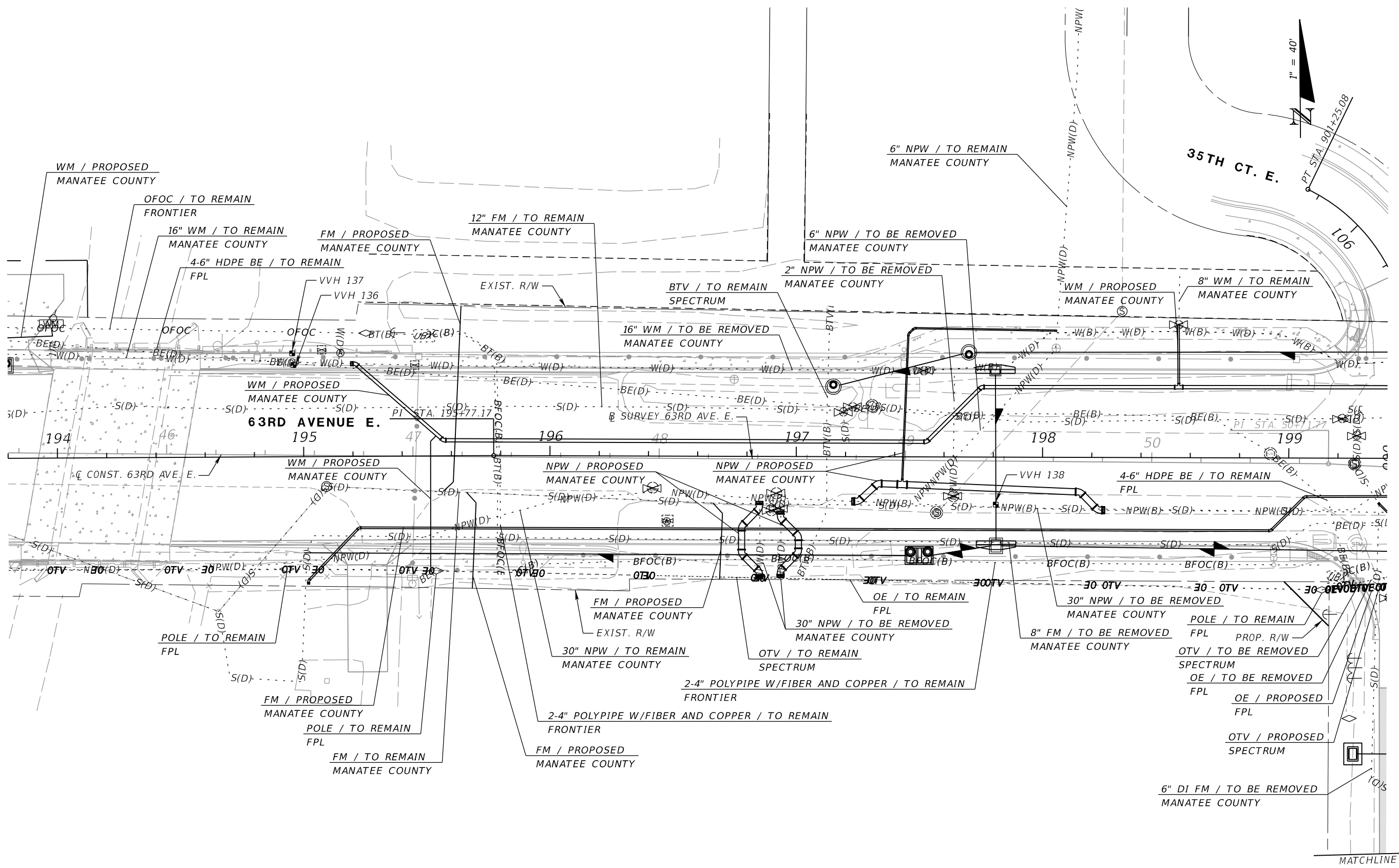
PGA
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 PATEL, GREENE & ASSOCIATES, LLC
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 Bradenton, FL 34208

UTILITY ADJUSTMENTS (7)

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			CHECKED BY	JPH	6107860

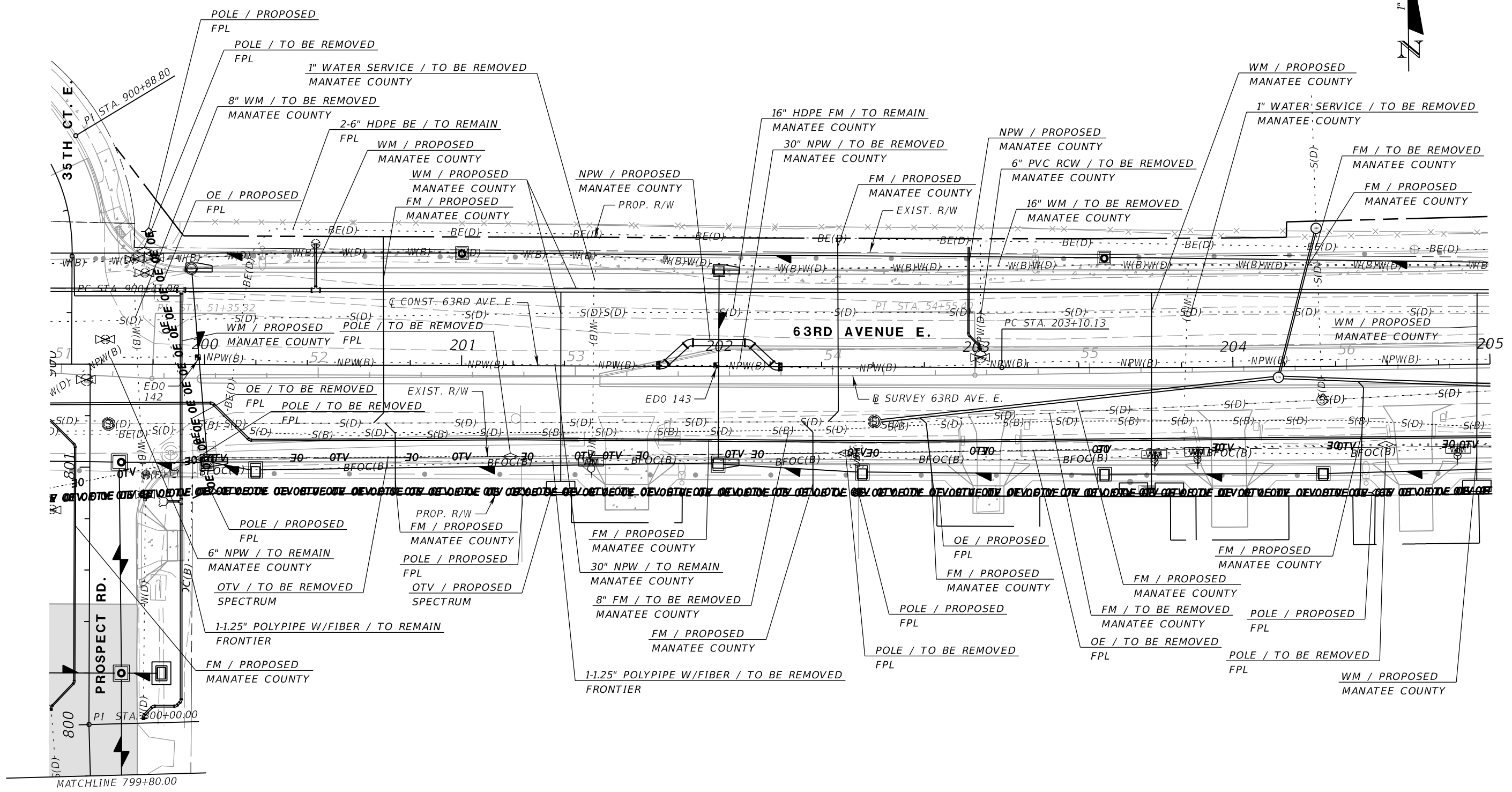
RGA
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 PATEL, GREENE & ASSOCIATES, LLC
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 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

UTILITY ADJUSTMENTS (8)

SHEET NO.

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			CHECKED BY	JPH	6107860

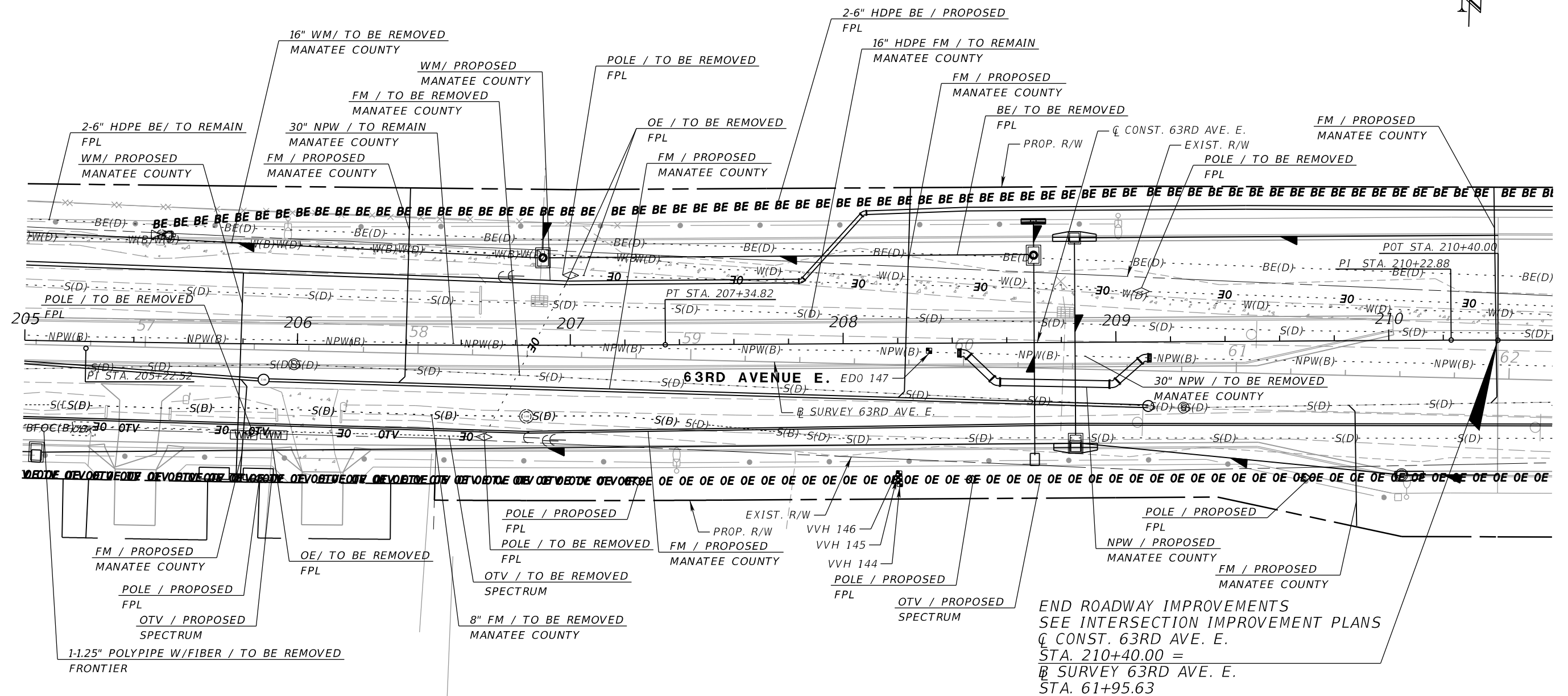
PGA ADAM S. PEREZ, P.E.
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 PATEL, GREENE & ASSOCIATES, LLC
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Manatee County PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
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UTILITY ADJUSTMENTS (9)

SHEET NO.

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END ROADWAY IMPROVEMENTS
 SEE INTERSECTION IMPROVEMENT PLANS
 C CONST. 63RD AVE. E.
 STA. 210+40.00 =
 B SURVEY 63RD AVE. E.
 STA. 61+95.63

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			DRAWN BY	JM	PROJECT NO.
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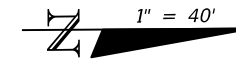
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UTILITY ADJUSTMENTS (10)

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312.74(P)

EXIST. R/W

EXIST. R/W

MATCHLINE STA. 700+00.00

695

696

697

698

699

700

SANITARY MANHOLE

VVH 106

10" PVC WM / TO BE REMOVED
MANATEE COUNTY
WM / PROPOSED
MANATEE COUNTY

10" PVC WM / TO REMAIN
MANATEE COUNTY

31ST STREET E.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
				JM	PROJECT NO.
				JPH	6107860



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12570 TELECOM DRIVE
TEMPLE TERRACE, FL 33637



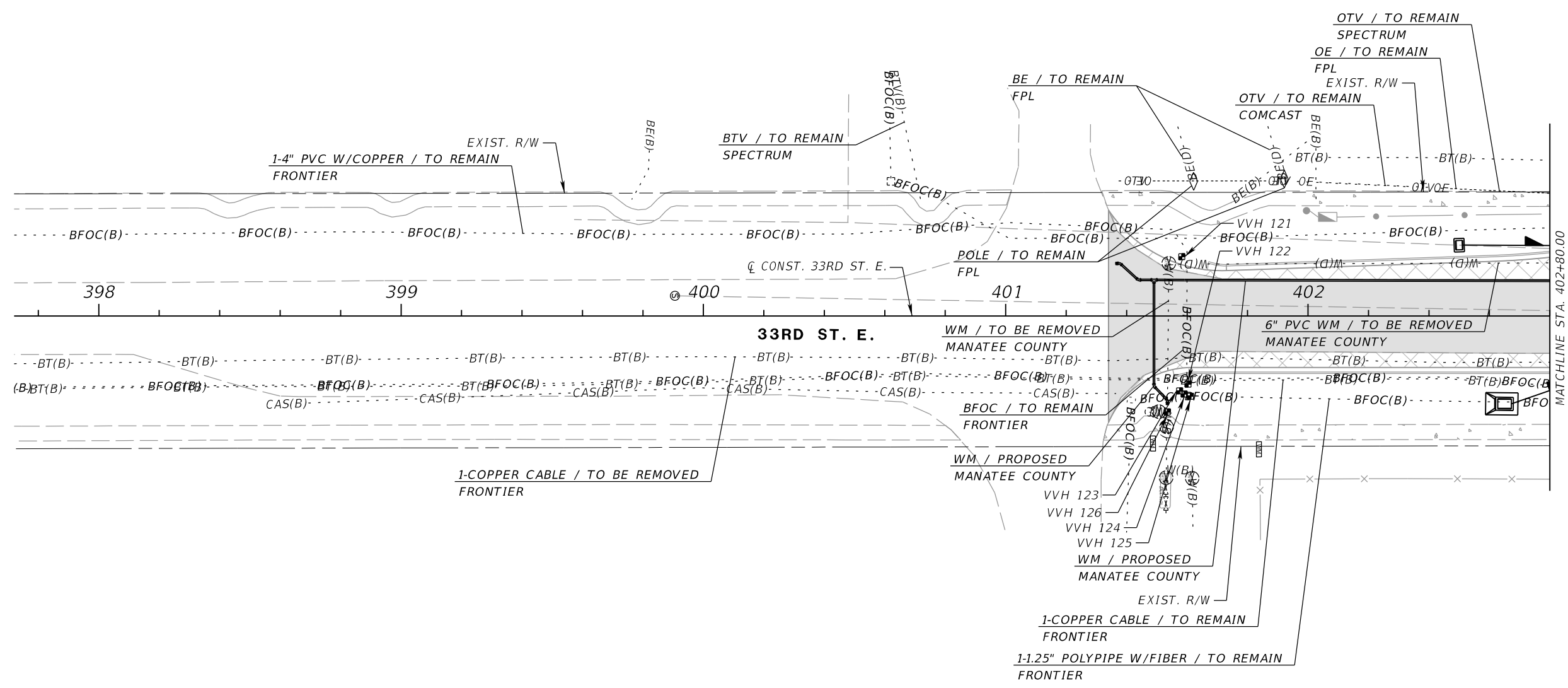
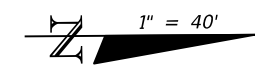
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

UTILITY ADJUSTMENTS (11)

SHEET NO.

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0E - - -



33RD STREET E.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

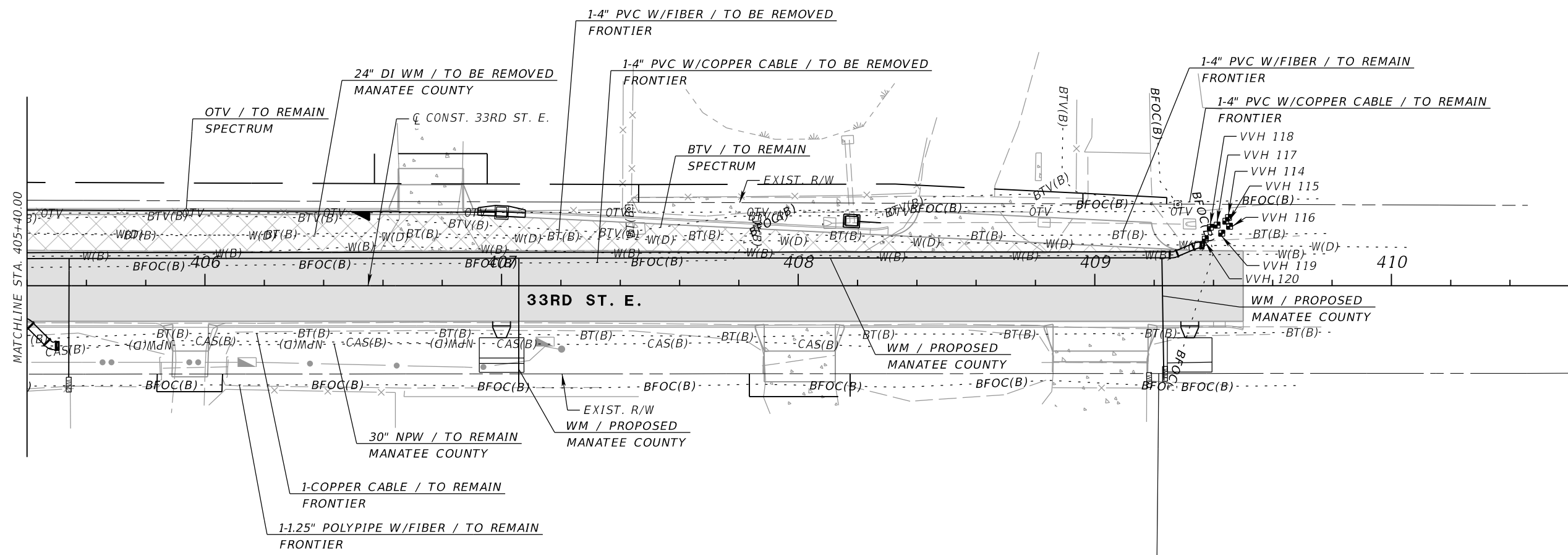
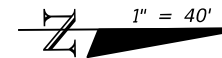
PGA
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 PATEL, GREENE & ASSOCIATES, LLC
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 TEMPLE TERRACE, FL 33637

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 Bradenton, FL 34208

UTILITY ADJUSTMENTS (12)

SHEET NO.

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33RD STREET E.

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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			CHECKED BY	JPH	6107860

PGA ADAM S. PEREZ, P.E.
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 TEMPLE TERRACE, FL 33637

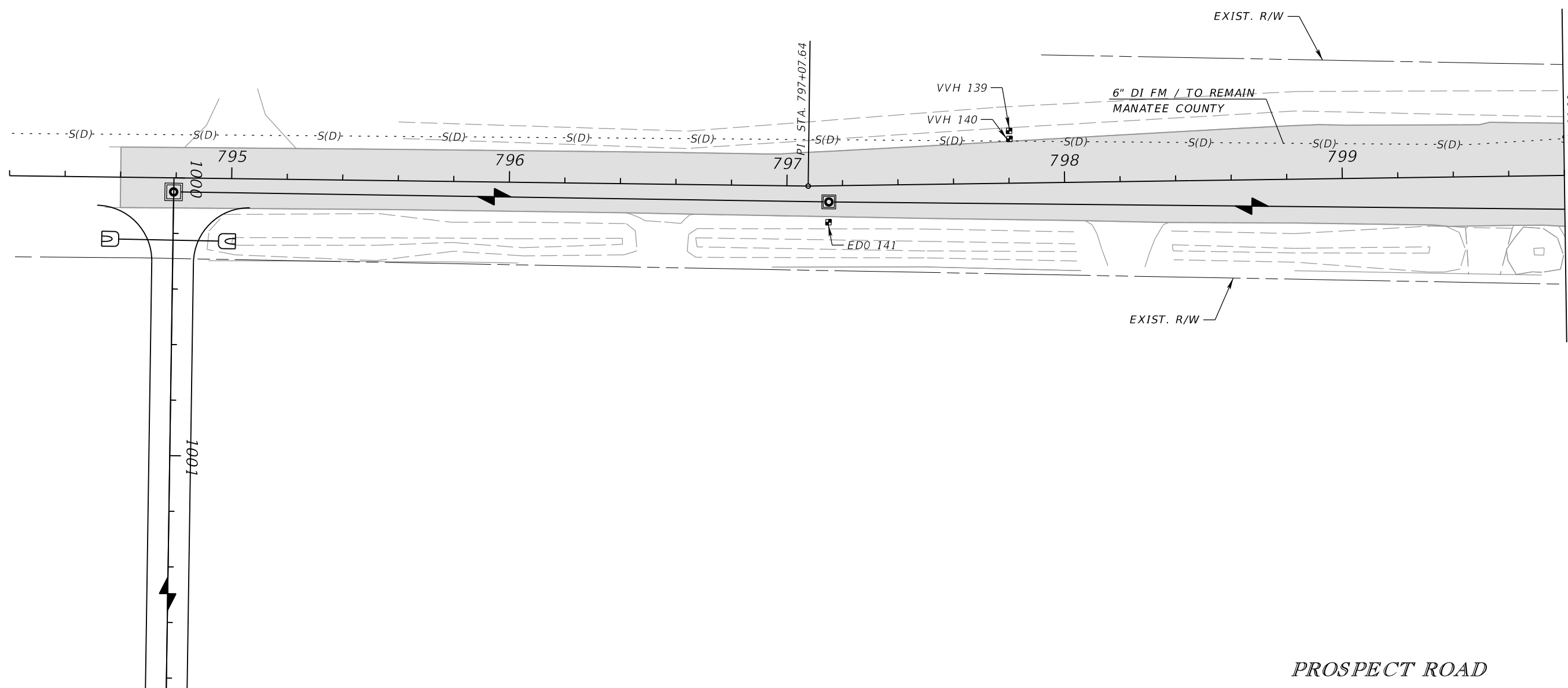
Manatee County PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

UTILITY ADJUSTMENTS (13)

SHEET NO.

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N 1" = 40'



PROSPECT ROAD

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

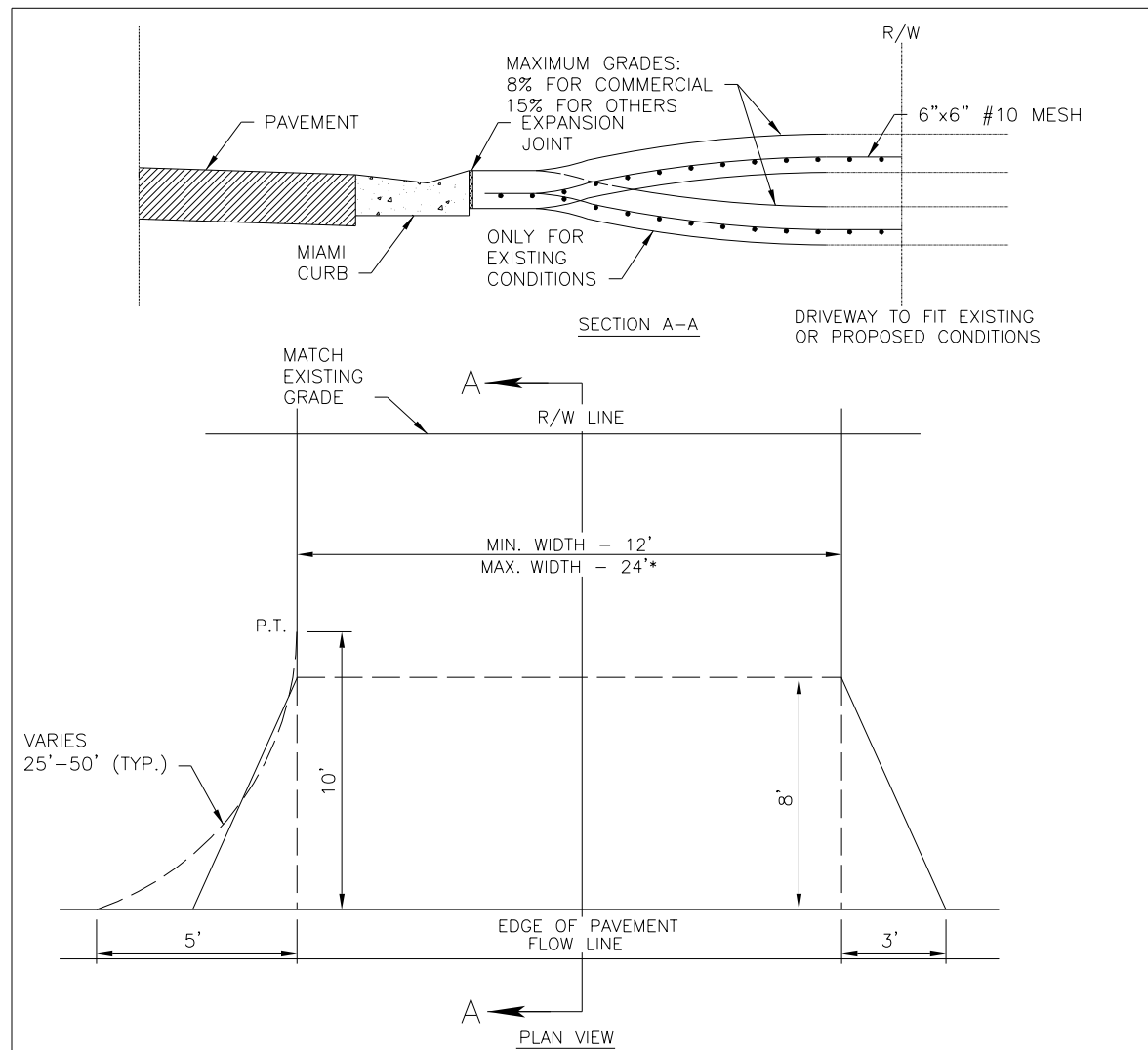
PGA
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 TEMPLE TERRACE, FL 33637

Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

UTILITY ADJUSTMENTS (14)

SHEET NO.

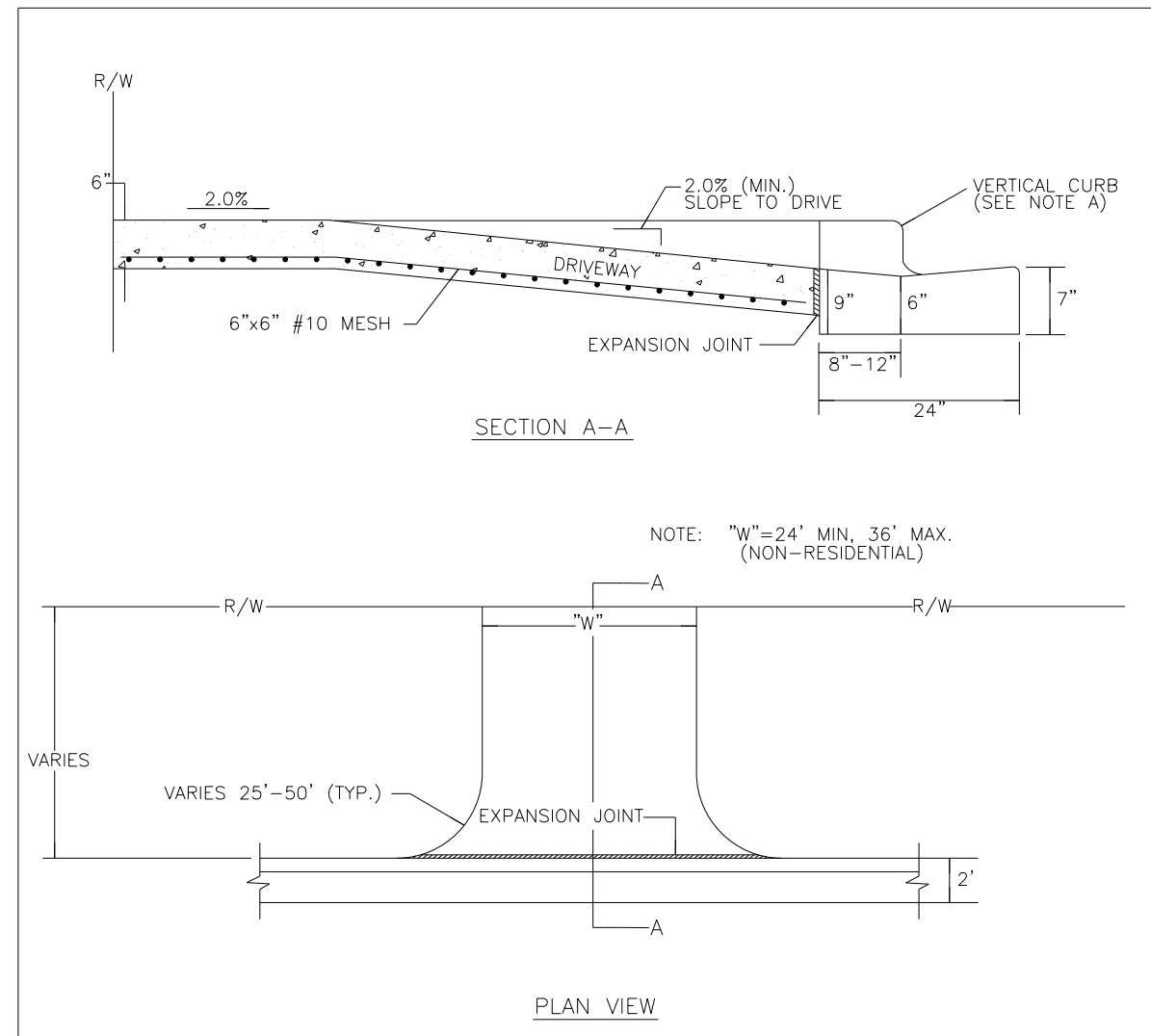
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



* FOR DRIVEWAYS THAT CAN DEMONSTRATE THE NEED FOR ADDITIONAL WIDTH, THE WIDTH MAY NOT BE GREATER THAN THE LESSER OF:
 A) 30' TOTAL AT THE RIGHT-OF-WAY LINE.
 B) 30% OF THE FRONT FOOTAGE AS DEFINED ON THE SURVEY (OR FIELD MEASUREMENTS, 36' MAX).

- NOTES:
- A. DRIVEWAYS ADJACENT TO A PAVED ROADWAY MUST HAVE THE APRON CONSTRUCTED.
 - B. DRIVEWAY SHALL BE 6" REINFORCED CONCRETE (3000 PSI AT 28 DAYS) WITH 6"x6" #10 WIRE MESH FROM BACK OF CURB TO RIGHT-OF-WAY LINE.
 - C. MAINTAIN EXISTING DRAINAGE FLOWLINE.
 - D. USE 3'x8' FLARE OR 18' RADIUS WITH CURB TRANSITION (TRANSITION FROM TYPE F CURB TO MIAMI CURB). SEE DETAIL 101.4. NO CHANGE WITH 3' VALLEY CROSSINGS.
 - E. EXPANSION JOINT SHALL BE 1/2" PREFORMED JOINT FILLER OR APPROVED ALTERNATE.
 - F. SAWCUT (1/4" THICKNESS MINIMUM) ON 10' CENTERS. IF DRIVE IS WIDER THAN 12', ADD JOINTS AT 10' CENTERS.
 - G. LATERAL ALIGNMENT 45 DEGREES FOR DOUBLE DRIVE PER LOT, 90 DEGREES FOR SINGLE DRIVE, OFF CENTER LINE.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		URBAN DRIVES	101.3
REV. BY	DATE		
	4/26/22		
	DATE OF B.O.C.C. APPROVAL		



NOTE: "W"=24' MIN, 36' MAX. (NON-RESIDENTIAL)

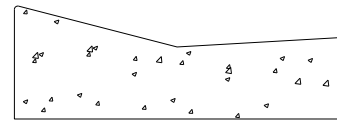
- NOTES:
- A. IF REPLACING VERTICAL CURB AND GUTTER, REPLACE WITH MIAMI CURB AND GUTTER. NO CHANGE WITH 3' VALLEY CROSSING.
 - B. DRIVEWAY SHALL BE 6" CONCRETE (3000 PSI AT 28 DAYS) WITH 6"x6" #10 MESH.
 - C. EXPANSION JOINT SHALL BE 1/2" PREFORMED JOINT FILLER OR APPROVED ALTERNATE.
 - D. SAWCUT (1/4" THICKNESS MINIMUM) ON 10' CENTERS. IF DRIVE IS WIDER THAN 12', ADD JOINTS AT 10' CENTERS.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		URBAN COMMERCIAL & INDUSTRIAL DRIVES	101.5
REV. BY	DATE		
	4/26/22		
	DATE OF B.O.C.C. APPROVAL		

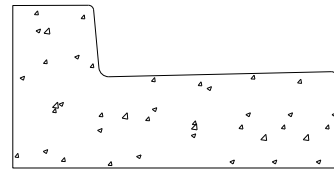
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	SPECIAL DETAILS	SHEET NO.
		DET-1

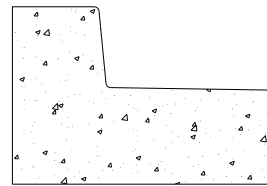
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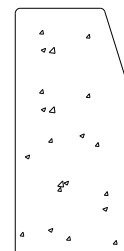
TYPE A
MIAMI CURB & GUTTER
DETAIL 201.1



TYPE F
CURB & GUTTER
DETAIL 201.2



TYPE AB
MODIFIED CURB & GUTTER
DETAIL 201.3

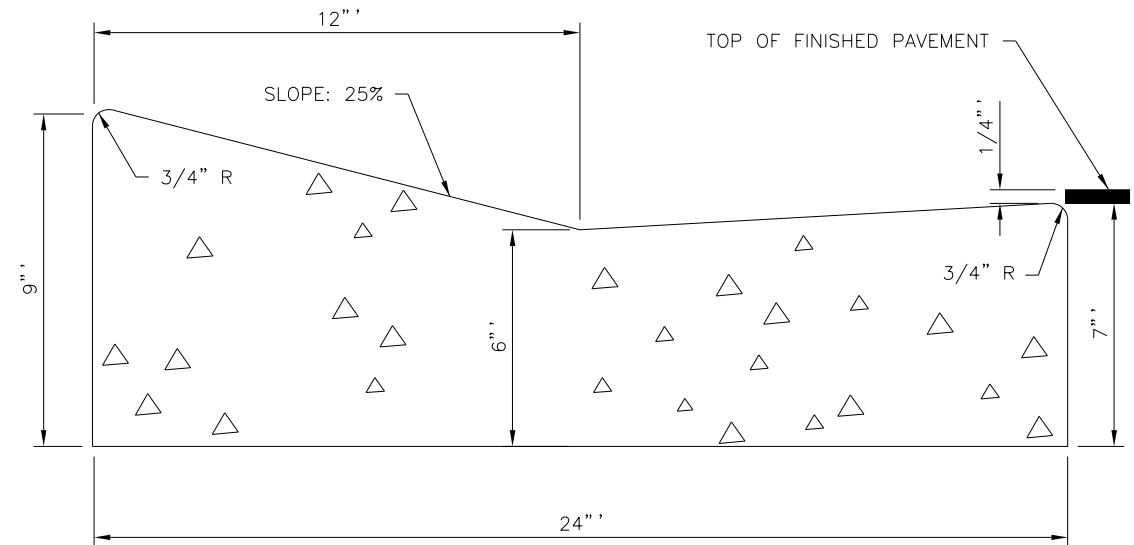


TYPE D
CURB
DETAIL 201.4

NOTES:

- A. ALL CURB AND GUTTER SHALL HAVE A 1/8" TO 1/4" CONTRACTION JOINT AT 10' CENTERS.
- B. ALL CURB AND GUTTER SHALL BE CONSTRUCTED IN COMPLIANCE WITH FDOT STANDARD PLANS, INDEX NO. 520-001, LATEST EDITION.
- C. TOP OF FINISHED PAVEMENT SHALL BE 1/4" ABOVE LIP OF GUTTER ON THE LOW SIDE.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		CURB & GUTTER CONTROL SHEET	201.0
REV. BY	DATE		
	4/26/22		
	DATE OF APPROVAL		



TYPE A
MIAMI CURB & GUTTER

NOTES:

- A. CLASS 1 CONCRETE 3,000 PSI AT 28 DAYS.
- B. CURB AND GUTTER SHALL MEET FDOT STANDARD SPECIFICATIONS AND FDOT STANDARD PLANS, INDEX 520-001, LATEST EDITION.

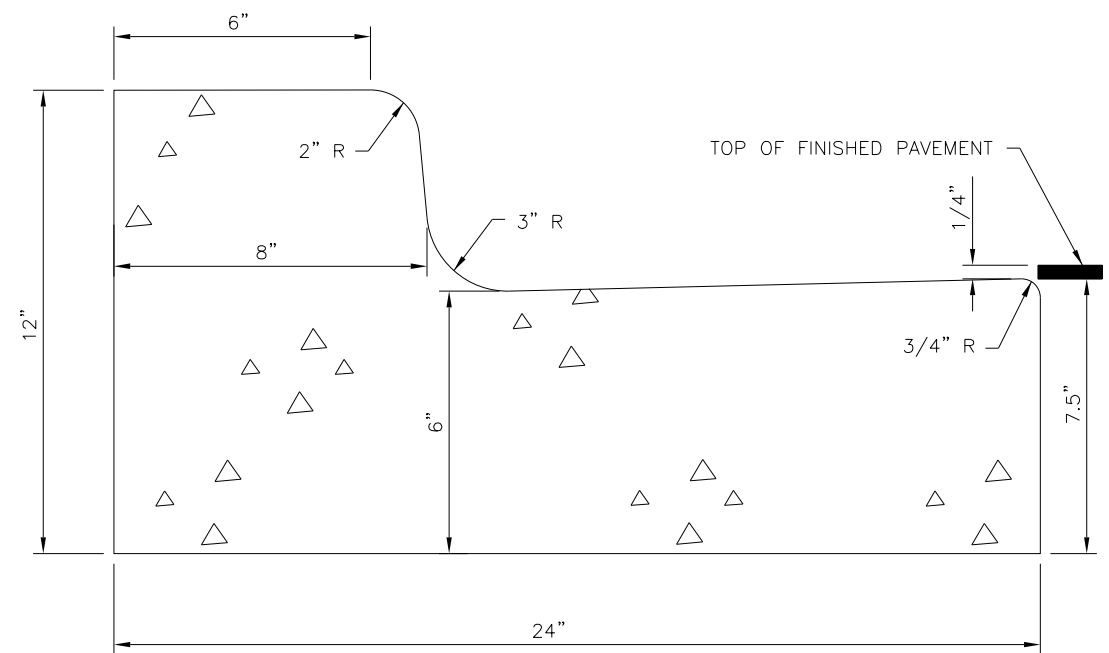
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TYPE A MIAMI CURB & GUTTER	201.1
REV. BY	DATE		
	4/26/22		
	DATE OF B.O.C.C. APPROVAL		

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
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			CHECKED BY	JPH	6107860

**PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES**
1022 26th Avenue East
Bradenton, FL 34208

SPECIAL DETAILS

SHEET NO.
DET-2

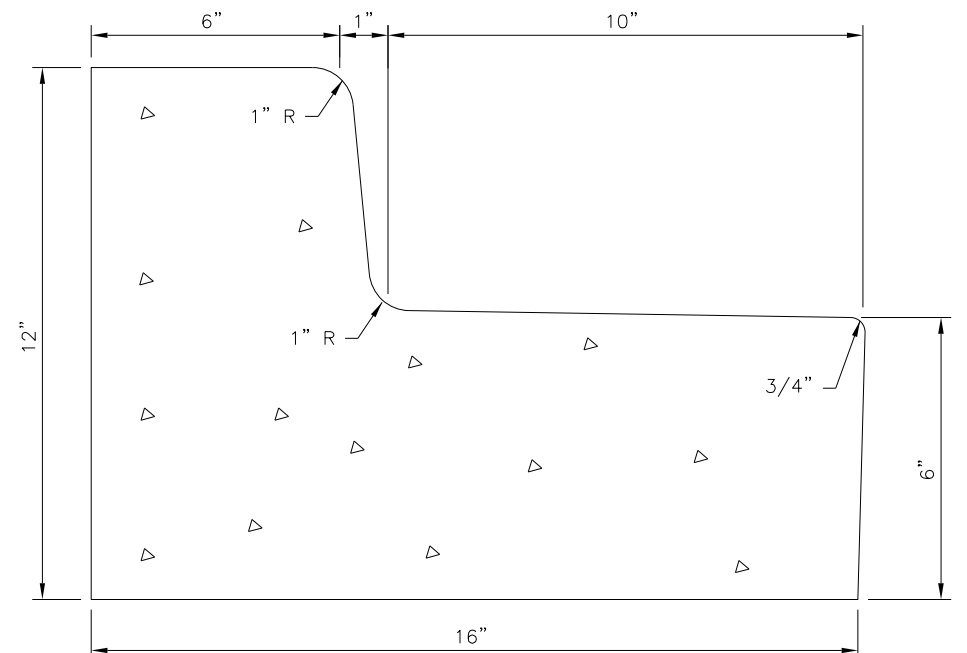


TYPE F
CURB & GUTTER

NOTES:

- A. CLASS 1 CONCRETE 3,000 PSI AT 28 DAYS.
- B. CURB AND GUTTER SHALL MEET FDOT STANDARD SPECIFICATIONS AND FDOT STANDARD PLANS, INDEX 520-001, LATEST EDITION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TYPE F CURB & GUTTER	201.2
REV. BY	DATE		
	4/26/22		
	DATE OF B.O.C.C. APPROVAL		



TYPE AB
MODIFIED CURB & GUTTER

NOTES:

- A. CLASS 1 CONCRETE 3,000 PSI AT 28 DAYS.
- B. CURB AND GUTTER SHALL MEET FDOT STANDARD SPECIFICATIONS AND FDOT STANDARD PLANS, INDEX 520-001, LATEST EDITION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TYPE AB MODIFIED CURB & GUTTER	201.3
REV. BY	DATE		
	4/26/22		
	DATE OF B.O.C.C. APPROVAL		

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	ASP	03/2023
			DRAWN BY	JM	PROJECT NO.
			CHECKED BY	JPH	6107860

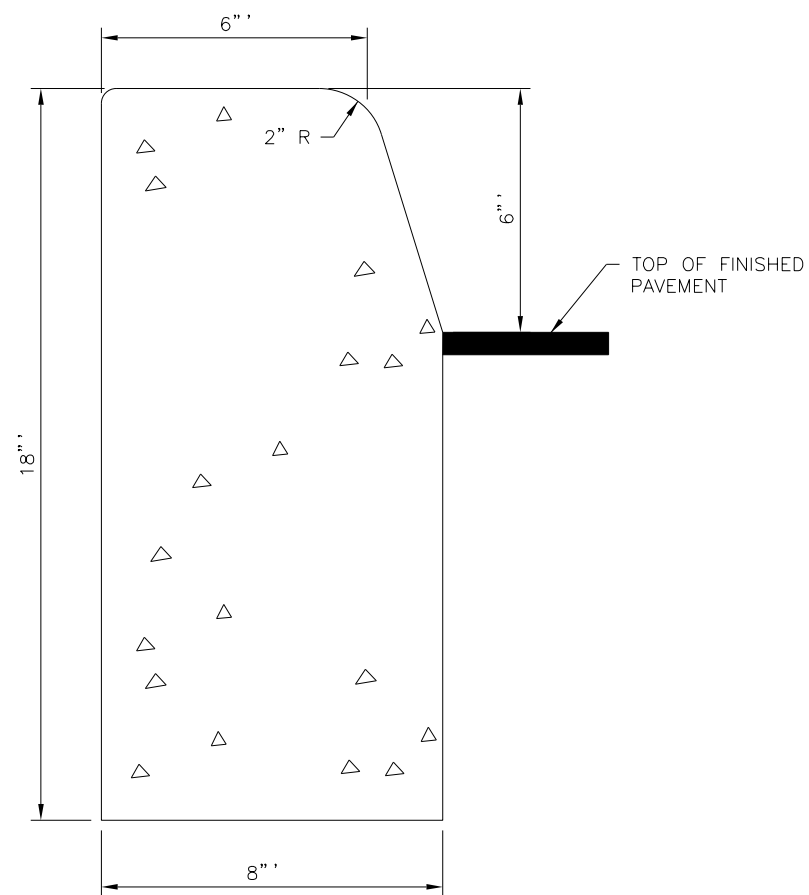


**PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES**
1022 26th Avenue East
Bradenton, FL 34208

SPECIAL DETAILS

SHEET NO.
DET-3

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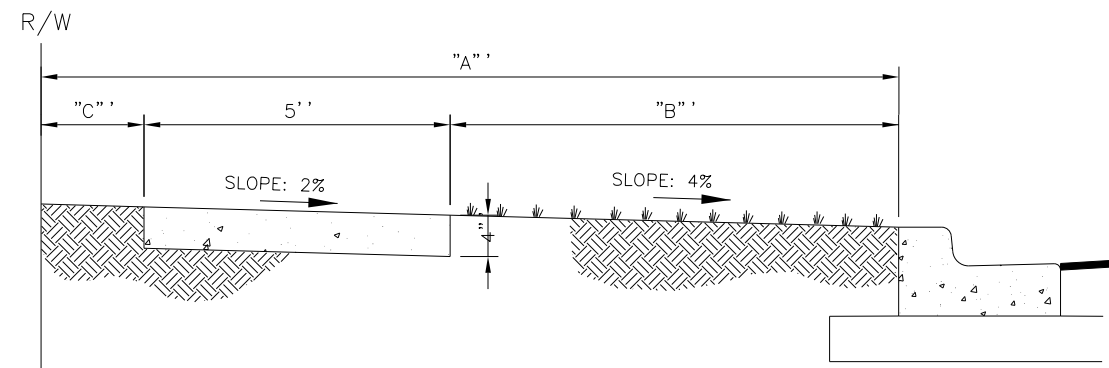


TYPE D CURB

NOTES:

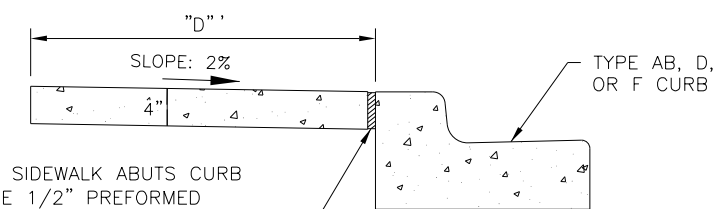
- A. CLASS 1 CONCRETE 3,000 PSI AT 28 DAYS.
- B. CURB AND GUTTER SHALL MEET FDOT STANDARD SPECIFICATIONS AND FDOT STANDARD PLANS, INDEX 520-001, LATEST EDITION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TYPE D CURB	201.4
REV. BY	DATE		
	4/26/22		
	DATE OF B.O.C.C. APPROVAL		



"A" = BACK OF CURB TO RIGHT-OF-WAY (VARIES)
 "B" = UNPAVED AREA (VARIES)
 "C" = VARIES, SEE DETAILS 401.1-401.10

TYPICAL SIDEWALK LOCATION

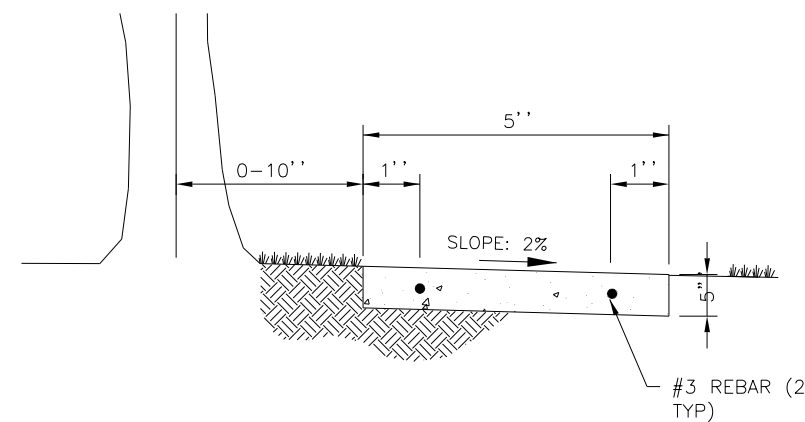


WHERE SIDEWALK ABUTS CURB
 PROVIDE 1/2" PREFORMED
 JOINT
 FILLER. SEE SECTION 3.8
 MANATEE COUNTY PUBLIC
 WORKS STANDARDS MANUAL

"D" = SIDEWALK WIDTH SHALL BE 6' STANDARD, WHERE SIDEWALK ABUTS TYPE AB, D, OR F CURB.

SEE SECTION 3.8 SIDEWALKS, MANATEE COUNTY
 PUBLIC WORKS STANDARDS MANUAL, FOR FURTHER INFORMATION.

ALTERNATE SIDEWALK LOCATION



SIDEWALK LOCATION CLOSE TO TREES

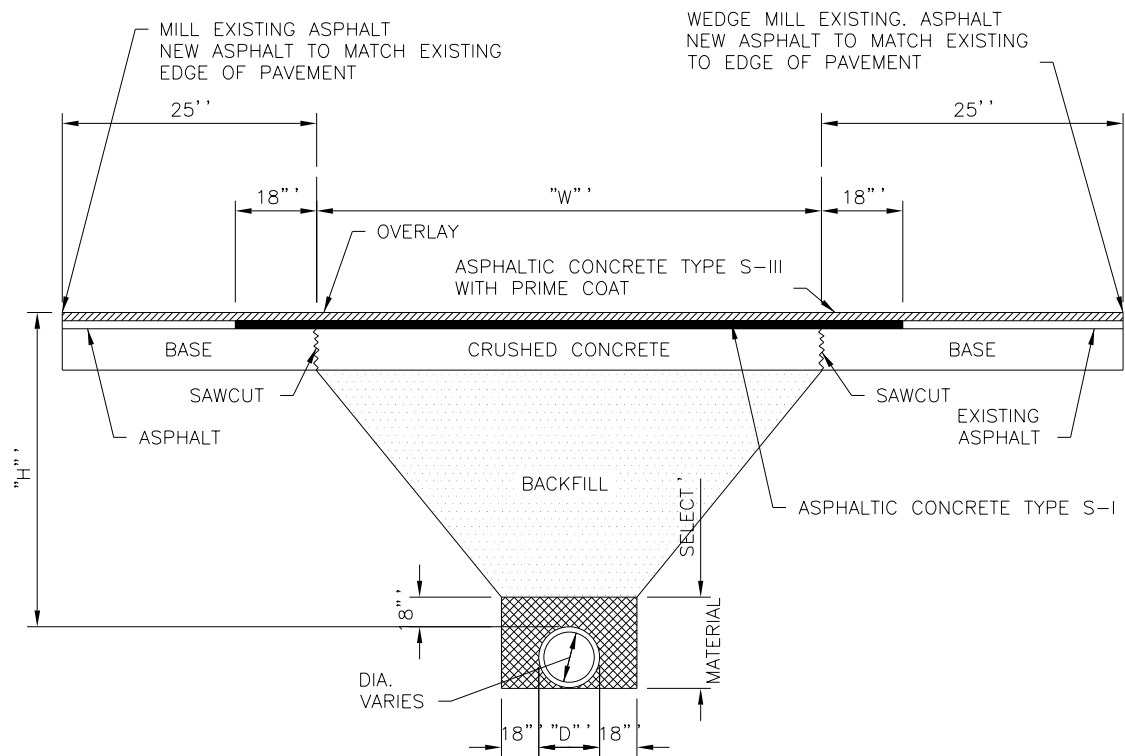
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		SIDEWALK REQUIREMENTS	301.0
REV. BY	DATE		
	4/26/22		
	DATE OF B.O.C.C. APPROVAL		

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
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				JM	PROJECT NO.
				JPH	6107860


MANATEE COUNTY
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

SPECIAL DETAILS

SHEET NO.
DET-4



- A. CRUSHED CONCRETE BASE SHALL BE A MINIMUM OF 8" OR MATCH EXISTING, WHICH EVER IS GREATER. AND A MINIMUM OF "W" IN WIDTH, OR GREATER, WHERE DISTURBED AREA IS GREATER THAN "W" FROM EQUATION: $W = (2 \times H) + D + (2 \times 18)$. ASPHALTIC BASE COURSE III WILL BE AN ACCEPTABLE ALTERNATE.
- B. BACKFILL, AASHTO M145-66 SHALL BE PLACED IN LAYERS NOT TO EXCEED 6", EACH LAYER WILL BE THOROUGHLY TAMPED AND/OR ROLLED TO 98% OF MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T-180). NON-SHRINK, HIGH SLUMP, 1,500 PSI CONCRETE. BACKFILL MAY BE USED AS AN ALTERNATIVE IF APPROVED BY MANATEE COUNTY TRANSPORTATION DEPARTMENT.
- C. SELECT MATERIAL, AASHTO M-146-70, SHALL MEET FDOT CURRENT STANDARD SPECIFICATIONS AND BE PLACED ON BOTH SIDES OF THE PIPE SIMUTANEOUSLY, COMPACT AREA UNDER HAUNCHES OF THE PIPE W/ MECHANICAL TAMPERS, AND THROUGHOUT THE REMAINDER OF THE SELECT MATERIAL.
- D. ASPHALTIC CONCRETE STRUCTURAL COURSE, SHALL BE THE SAME DEPTH AND TYPE AS EXISTING OR A MINIMUM OF 1 1/4", WHICHEVER IS GREATER.
- E. "H" = THE DEPTH FROM TOP OF PIPE TO THE CENTERLINE OF THE ROAD (MINIMUM OF 36") MINIMUM OF 30" UNDER FLOWLINE OF SIDE DITCHES.
- F. RESTORE EXISTING SIGNAGE & MARKING WITH THERMOPLASTIC PER FDOT STANDARDS, LATEST EDITION.
- G. OVERLAY LIMITS AT DESCRETION OF PAVEMENT MANAGER.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		UTILITY ROAD CUT REPLACEMENT	403.2
REV. BY	DATE		
	4/26/22		
	DATE OF B.O.C.C. APPROVAL		

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
				ASP	03/2023
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PGA
 ADAM S. PEREZ, P.E.
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 1022 26th Avenue East
 Bradenton, FL 34208

SPECIAL DETAILS

SHEET NO.
 DET-5

DATE OF SURVEY: JULY 2022 TO JUNE 2023
 SURVEY MADE BY: TIERRA, INC.
 SUBMITTED BY: MARC E. NOVAK, Ph.D., P.E.

MANATEE COUNTY PUBLIC WORKS

CIP NO. : 6107860
 PROJECT NAME: 63RD AVE. E. FROM U.S. 301 TO TUTTLE AVENUE
 CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA. : 161+30.00 SURVEY ENDS STA. : 210+40.00 REFERENCE: BASELINE SURVEY 63RD AVE.

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)					ATTERBERG LIMITS (%)			DESCRIPTION	CORROSION TEST RESULTS						
	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX		AASHTO GROUP	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH	
1	1	1	1	26	28	100	94-95	78-95	39-42	2-10	--	--	--	A-3	GRAY TO BROWN SAND TO SAND WITH SILT	5	3,300-29,000	15	<5-183	6.7-7.7
2	--	--	14	10-37	24	100	95	82	49	11-22	14	NP-23	NP-5	A-2-4	GRAY TO LIGHT BROWN SILTY SAND	--	--	--	--	--
3	5	2-4	5	21-36	5	--	--	--	--	3-15	--	--	--	A-3/A-2-4	DARK GRAY TO DARK BROWN SAND TO SAND WITH SILT TO SILTY SAND WITH TRACE ORGANICS	--	--	--	--	--
4	11	5-11	11	26-94	11	--	--	--	--	7-20	--	--	--	A-8	DARK GRAY TO DARK BROWN ORGANIC SAND TO SAND WITH SILT TO SILTY SAND	--	--	--	--	--
5	--	--	5	19-48	5	--	--	--	--	21-35	5	26-32	13-15	A-2-6	GRAY TO BROWN CLAYEY SAND	--	--	--	--	--
6	--	--	4	34-53	4	--	--	--	--	38-43	4	24-39	7-22	A-4/A-6/A-7-5	GRAY TO BROWN TO GREEN CLAY TO SILT	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	DEBRIS: SOIL MIXED VARIABLE AMOUNTS OF CONCRETE, BRICK, METAL, PLASTIC, ASPHALT, AND/OR WOOD	--	--	--	--	--
8	--	--	--	--	1	--	--	--	--	10	--	--	--	A-3	GRAY TO BROWN SAND TO SAND WITH SILT (DISTURBED)	--	--	--	--	--
9	1	2	1	19	4	--	--	--	--	11-21	--	--	--	A-2-4	GRAY TO LIGHT BROWN SILTY SAND (DISTURBED)	--	--	--	--	--
10	1	6	1	32	1	--	--	--	--	20	--	--	--	A-8	DARK GRAY TO DARK BROWN ORGANIC SILTY SAND (DISTURBED)	--	--	--	--	--
11	--	--	1	23-25	2	--	--	--	--	26-31	2	32-39	11-25	A-2-6	GRAY TO BROWN CLAYEY SAND (DISTURBED)	--	--	--	--	--
12	--	--	1	54-60	2	--	--	--	--	55-80	2	50-84	41-54	A-7-5/A-7-6	GRAY TO BROWN TO GREEN CLAY (DISTURBED)	--	--	--	--	--
13	--	--	4	50-87	4	--	--	--	--	72-97	4	50-66	29-40	A-7-6	GRAY TO BROWN TO GREEN CLAY	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	WEATHERED LIMESTONE TO CALCAEOUS CLAY	--	--	--	--	--

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

▼ - WATER TABLE ENCOUNTERED

▽ - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE


GNE - GROUNDWATER NOT ENCOUNTERED

NP - NON-PLASTIC

NOTES:

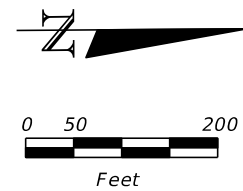
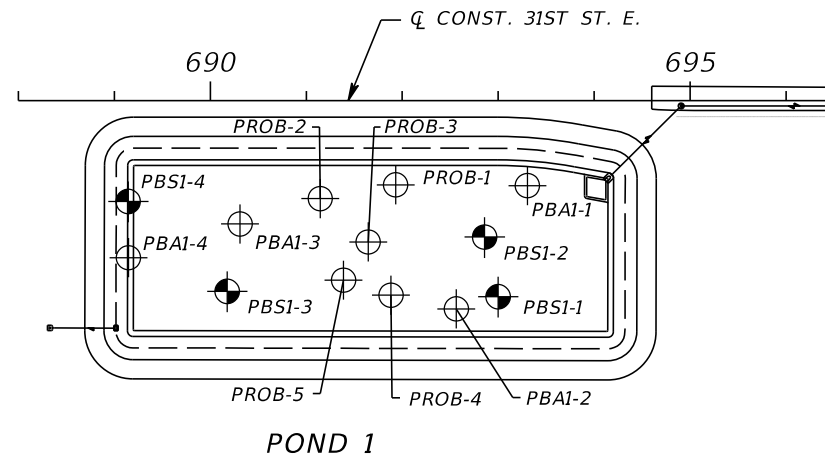
- STRATA 1 THROUGH 6 AND STRATUM 13 ARE SOILS IN THEIR NATURAL INSITU STATE. STRATA 8 THROUGH 12 ARE SOILS THAT WERE ENCOUNTERED IN THE FPC SITE AND APPEAR TO BE DISTURBED AS PART OF THE EXCAVATION OF THE BURYING OF DEBRIS AND ARE NOT IN THEIR NATURAL STATE. STRATA 8 THROUGH 12 CAN BE HIGHLY VARIABLE AND MIXED AND DIFFICULT TO SEPARATE. THEIR ABILITY FOR UTILIZATION FOR EMBANKMENT MATERIALS SHALL BE VERIFIED DURING CONSTRUCTION AND SUBJECT TO MANATEE COUNTY SPECIFICATIONS.
- THE MATERIAL FROM STRATUM 1 (A-3) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
- THE MATERIAL FROM STRATUM 2 (A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
- THE MATERIAL FROM STRATUM 3 (A-3/A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001. HOWEVER, THIS MATERIAL MAY NOT BE USED IN THE SUBGRADE PORTION OF THE ROADBED DUE TO ITS ORGANIC CONTENT.

- THE MATERIAL FROM STRATUM 4 (A-8) IS MUCK MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001. THE REMOVAL LIMITS ARE DEPICTED ON THE ROADWAY CROSS-SECTIONS AND ON THE MUCK DELINEATION SHEETS.
- THE MATERIAL FROM STRATA 5&6 (A-2-6/A-6/A-4) IS PLASTIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
- THE MATERIAL FROM STRATUM 13 (A-7-6) IS HIGH PLASTIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
- THE MATERIAL FROM STRATUM 7 IS CONSTRUCTION DEBRIS INCLUDING SOIL MIXED WITH VARIABLE AMOUNTS OF CONCRETE, BRICK, METAL, PLASTIC, ASPHALT, AND/OR WOOD. THIS MATERIAL WAS ENCOUNTERED WITHIN THE FPC SITE. IF ENCOUNTERED, THESE MATERIALS SHALL BE REMOVED AND DISPOSED OF OFFSITE AND NOT USED WITHIN THE PROJECT LIMITS.
- THE MATERIAL FROM STRATUM 14 (LIMESTONE) IS ROCK. EXCAVATION INTO OR THROUGH THIS MATERIAL MAY BE DIFFICULT. THE CONTRACTOR SHOULD BE PREPARED TO USE SPECIALIZED EQUIPMENT TO EXCAVATE INTO OR THROUGH LIMESTONE. LIMESTONE IS ALSO POROUS AND WILL BE DIFFICULT DEWATERING.

NUMBER	DESCRIPTION	DATE	PROJECT #	6107860	SURVEYED	----	DESIGNED	BJS	7/2023	 Manatee County PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	<h3 style="margin: 0;">ROADWAY SOIL SURVEY</h3>	SHEET NO.
			SURVEY #	----	DESIGNED	BJS	7/2023					
			SEC./TWN./RGE	00/00/00	DRAWN	BJS	7/2023					
			SCALE	AS NOTED	CHECKED	KH	7/2023					
			MARC E. NOVAK, Ph.D., P.E. P.E. LICENSE NUMBER 67431 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637									GR-1

LEGEND

- | | | |
|--|---------|--|
| 1. GRAY TO BROWN SAND TO SAND WITH SILT (A-3) | A-3 | AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW. |
| 2. GRAY TO LIGHT BROWN SILTY SAND (A-2-4) | N | NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED). |
| 3. DARK GRAY TO DARK BROWN SAND TO SAND WITH SILT WITH TRACE ORGANICS (A-3) | 50/4 | NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION |
| 4. DARK GRAY TO DARK BROWN ORGANIC SAND TO SAND WITH SILT (A-8) | HA | HAND AUGERED TO VERIFY UTILITY CLEARANCE |
| 5. GRAY TO BROWN CLAYEY SAND (A-2-6) | WH | SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER |
| 6. GRAY TO BROWN TO GREEN CLAY TO SILT (A-4/A-6/A-7-5) | -200 | PERCENT PASSING #200 SIEVE |
| 7. DEBRIS: SOIL MIXED WITH VARIABLE AMOUNTS OF CONCRETE, BRICK, METAL, PLASTIC, ASPHALT, AND/OR WOOD | NMC | NATURAL MOISTURE CONTENT (%) |
| | LL | LIQUID LIMIT (%) |
| | PI | PLASTICITY INDEX (%) |
| | OC | ORGANIC CONTENT (%) |
| | NP | NON-PLASTIC |
| 8. GRAY TO BROWN SAND TO SAND WITH SILT (DISTURBED) (A-3) | NAVD 88 | NORTH AMERICAN VERTICAL DATUM OF 1988 |
| 9. GRAY TO LIGHT BROWN SILTY SAND (DISTURBED) (A-2-4) | ⊕ | APPROXIMATE AUGER BORING LOCATION |
| 10. DARK GRAY TO DARK BROWN ORGANIC SILTY SAND (DISTURBED) (A-8) | ⊗ | APPROXIMATE SPT BORING LOCATION |
| 11. GRAY TO BROWN CLAYEY SAND (DISTURBED) (A-2-6) | ⊠ | APPROXIMATE TEST PIT LOCATION |
| 12. GRAY TO BROWN TO GREEN CLAY (DISTURBED) (A-7-5/A-7-6) | ▽ | ESTIMATED SEASONAL HIGH GROUNDWATER TABLE |
| 13. GRAY TO BROWN TO GREEN CLAY (A-7-6) | ▼ | GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS |
| 14. WEATHERED LIMESTONE TO CALCAREOUS CLAY | GNA | GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID AT A DEPTH OF 10 FEET. |
| | GNE | GROUNDWATER NOT ENCOUNTERED |
| | R | HAND AUGER OR MECHANICAL BACK-HOE REFUSAL ON DEBRIS MATERIALS PREVENTING DEEPER EXPLORATION |
| | ↓ | TEST PIT TERMINATED IN DEBRIS MATERIAL; DEBRIS CONTINUES DEEPER |
| | ↙100 | LOSS OF CIRCULATION OF DRILLING FLUID (%) |
| | | CASING |



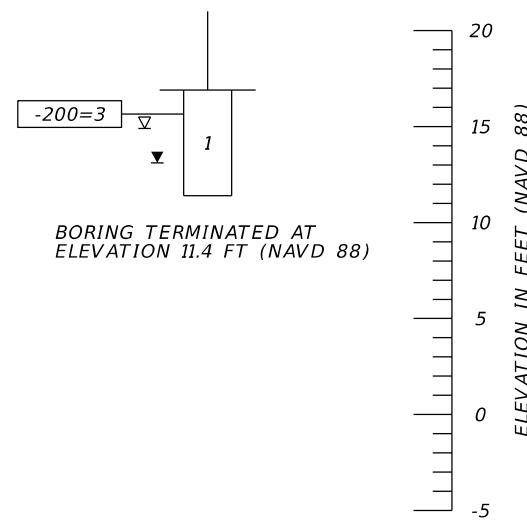
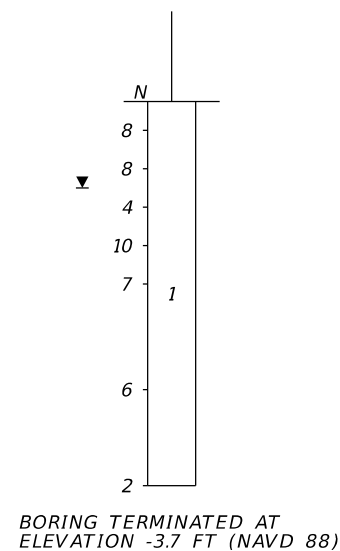
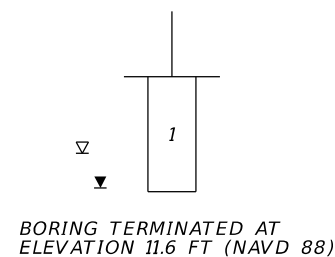
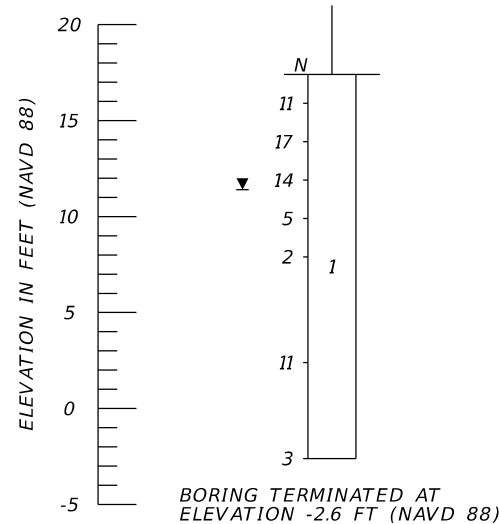
BORING LOCATION PLAN

BOR # PBSI-4
 STA. 689+14
 REF. Q CONST. 31ST AVE
 OFF. 105' RT.
 ELEV. 17.4
 DATE 2/7/2023
 DRILLER J. SHAW
 HAMMER AUTOMATIC
 RIG D-25

BOR # PBAI-4*
 STA. 689+15
 REF. Q CONST. 31ST AVE
 OFF. 164' RT.
 ELEV. 17.6
 DATE 1/24/2023

BOR # PBSI-3
 STA. 690+18
 REF. Q CONST. 31ST AVE
 OFF. 199' RT.
 ELEV. 16.3
 DATE 2/7/2023
 DRILLER J. SHAW
 HAMMER AUTOMATIC
 RIG D-25


BOR # PBAI-3*
 STA. 690+31
 REF. Q CONST. 31ST AVE
 OFF. 128' RT.
 ELEV. 16.9
 DATE 1/24/2023

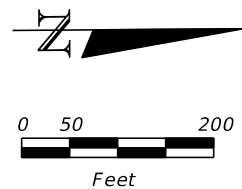
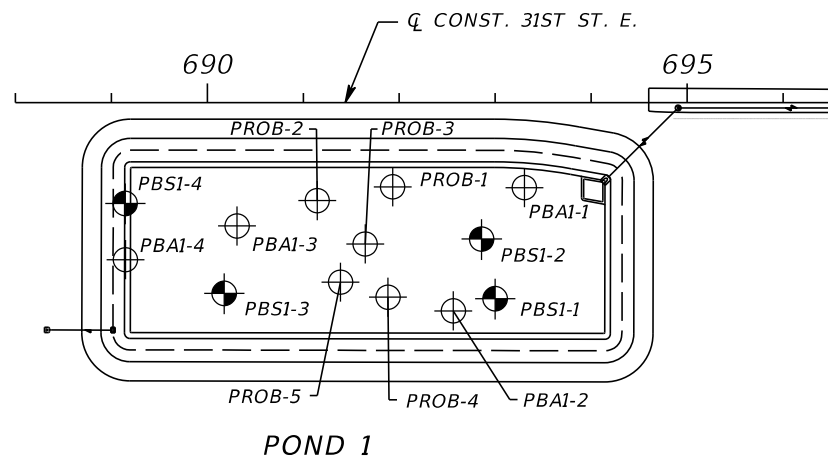


NOTES:
 1. THE LOCATIONS OF THE BORINGS WERE RECORDED IN THE FIELD BY TIERRA, INC. USING GARMIN ETREX HANDHELD GPS EQUIPMENT WITH A REPORTED ACCURACY OF ± 10 FEET. THE GPS COORDINATES RECORDED BY TIERRA WERE UTILIZED IN CONJUNCTION WITH DESIGN FILES TO OBTAIN STATION AND OFFSET. THEREFORE, THE BORING LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. BORINGS DENOTED BY AN ASTERISK (*) WERE LOCATED BY THE PROJECT SURVEYOR.
 2. STRATA 8 THROUGH 11 THROUGHOUT THE FPC AREA ARE NOT IN THEIR NATURAL STATE AND LIKELY WERE DEPOSITED WHEN THE DEBRIS MATERIALS WERE BURIED.

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

POND 1

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	MARC E. NOVAK, Ph.D., P.E. P.E. LICENSE NUMBER 67431 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	POND SOIL SURVEY (1)	SHEET NO.
			DESIGNED BY	BMG	06/2023				GR-2
			DRAWN BY	BMG	PROJECT NO.				
			CHECKED BY	MEN	6107860				



BORING LOCATION PLAN

LEGEND

- | | | |
|--|---------|--|
| 1. GRAY TO BROWN SAND TO SAND WITH SILT (A-3) | A-3 | AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW. |
| 2. GRAY TO LIGHT BROWN SILTY SAND (A-2-4) | N | NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED). |
| 3. DARK GRAY TO DARK BROWN SAND TO SAND WITH SILT WITH TRACE ORGANICS (A-3) | 50/4 | NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION |
| 4. DARK GRAY TO DARK BROWN ORGANIC SAND TO SAND WITH SILT (A-8) | HA | HAND AUGERED TO VERIFY UTILITY CLEARANCE |
| 5. GRAY TO BROWN CLAYEY SAND (A-2-6) | WH | SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER |
| 6. GRAY TO BROWN TO GREEN CLAY TO SILT (A-4/A-6/A-7-5) | -200 | PERCENT PASSING #200 SIEVE |
| 7. DEBRIS: SOIL MIXED WITH VARIABLE AMOUNTS OF CONCRETE, BRICK, METAL, PLASTIC, ASPHALT, AND/OR WOOD | NMC | NATURAL MOISTURE CONTENT (%) |
| 8. GRAY TO BROWN SAND TO SAND WITH SILT (DISTURBED) (A-3) | LL | LIQUID LIMIT (%) |
| 9. GRAY TO LIGHT BROWN SILTY SAND (DISTURBED) (A-2-4) | PI | PLASTICITY INDEX (%) |
| 10. DARK GRAY TO DARK BROWN ORGANIC SILTY SAND (DISTURBED) (A-8) | OC | ORGANIC CONTENT (%) |
| 11. GRAY TO BROWN CLAYEY SAND (DISTURBED) (A-2-6) | NP | NON-PLASTIC |
| 12. GRAY TO BROWN TO GREEN CLAY (DISTURBED) (A-7-5/A-7-6) | NAVD 88 | NORTH AMERICAN VERTICAL DATUM OF 1988 |
| 13. GRAY TO BROWN TO GREEN CLAY (A-7-6) | ⊕ | APPROXIMATE AUGER BORING LOCATION |
| 14. WEATHERED LIMESTONE TO CALCAREOUS CLAY | ⊙ | APPROXIMATE SPT BORING LOCATION |
| | ■ | APPROXIMATE TEST PIT LOCATION |
| | ▽ | ESTIMATED SEASONAL HIGH GROUNDWATER TABLE |
| | ▼ | GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS |
| | GNA | GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID AT A DEPTH OF 10 FEET. |
| | GNE | GROUNDWATER NOT ENCOUNTERED |
| | R | HAND AUGER OR MECHANICAL BACK-HOE REFUSAL ON DEBRIS MATERIALS PREVENTING DEEPER EXPLORATION |
| | ⬇ | TEST PIT TERMINATED IN DEBRIS MATERIAL; DEBRIS CONTINUES DEEPER |
| | ⬅700 | LOSS OF CIRCULATION OF DRILLING FLUID (%) |
| | | CASING |

BOR # PROBE-2
STA. 691+15
REF. Q CONST. 31ST AVE
OFF. 102' RT.
ELEV. 13.4
DATE 1/24/2023

BOR # PROBE-5
STA. 691+39
REF. Q CONST. 31ST AVE
OFF. 187' RT.
ELEV. 13.4
DATE 1/24/2023

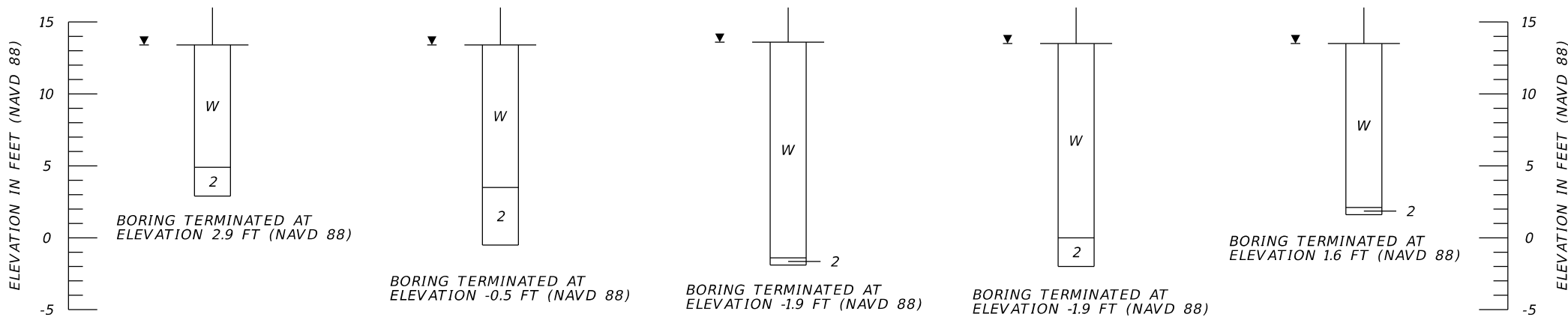
BOR # PROBE-3
STA. 691+64
REF. Q CONST. 31ST AVE
OFF. 147' RT.
ELEV. 13.6
DATE 1/24/2023

BOR # PROBE-4
STA. 691+88
REF. Q CONST. 31ST AVE
OFF. 203' RT.
ELEV. 13.5
DATE 1/24/2023

BOR # PROBE-1
STA. 691+93
REF. Q CONST. 31ST AVE
OFF. 88' RT.
ELEV. 13.5
DATE 1/24/2023


NOTES:

- THE LOCATIONS OF THE BORINGS WERE RECORDED IN THE FIELD BY TIERRA, INC. USING GARMIN ETREX HANDHELD GPS EQUIPMENT WITH A REPORTED ACCURACY OF ± 10 FEET. THE GPS COORDINATES RECORDED BY TIERRA WERE UTILIZED IN CONJUNCTION WITH DESIGN FILES TO OBTAIN STATION AND OFFSET. THEREFORE, THE BORING LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. BORINGS DENOTED BY AN ASTERISK (*) WERE LOCATED BY THE PROJECT SURVEYOR.
- STRATA 8 THROUGH 11 THROUGHOUT THE FPC AREA ARE NOT IN THEIR NATURAL STATE AND LIKELY WERE DEPOSITED WHEN THE DEBRIS MATERIALS WERE BURIED.



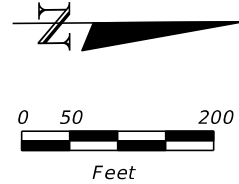
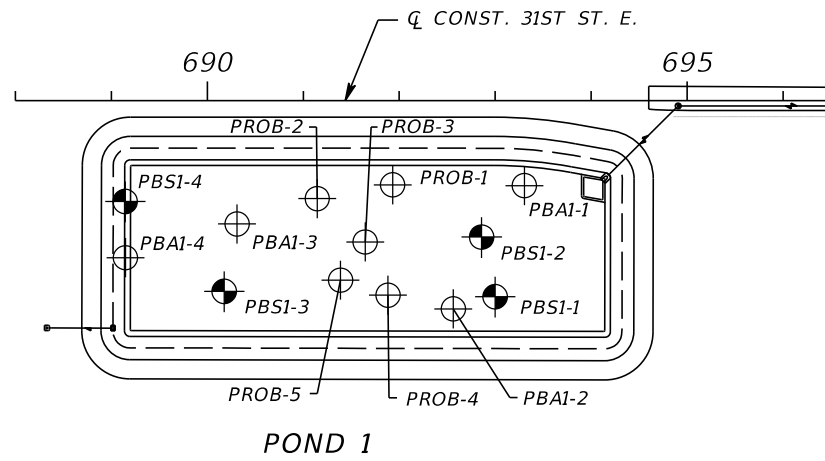
	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

POND 1

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	MARC E. NOVAK, Ph.D., P.E. P.E. LICENSE NUMBER 67431 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	POND SOIL SURVEY (2)	SHEET NO.	
			DESIGNED BY	BMG	06/2023					
			DRAWN BY	BMG	PROJECT NO.					
			CHECKED BY	MEN	6107860					GR-3

LEGEND

- | | | |
|--|---------|--|
| 1. GRAY TO BROWN SAND TO SAND WITH SILT (A-3) | A-3 | AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW. |
| 2. GRAY TO LIGHT BROWN SILTY SAND (A-2-4) | N | NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED). |
| 3. DARK GRAY TO DARK BROWN SAND TO SAND WITH SILT WITH TRACE ORGANICS (A-3) | 50/4 | NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION |
| 4. DARK GRAY TO DARK BROWN ORGANIC SAND TO SAND WITH SILT (A-8) | HA | HAND AUGERED TO VERIFY UTILITY CLEARANCE |
| 5. GRAY TO BROWN CLAYEY SAND (A-2-6) | WH | SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER |
| 6. GRAY TO BROWN TO GREEN CLAY TO SILT (A-4/A-6/A-7-5) | -200 | PERCENT PASSING #200 SIEVE |
| 7. DEBRIS: SOIL MIXED WITH VARIABLE AMOUNTS OF CONCRETE, BRICK, METAL, PLASTIC, ASPHALT, AND/OR WOOD | NMC | NATURAL MOISTURE CONTENT (%) |
| | LL | LIQUID LIMIT (%) |
| | PI | PLASTICITY INDEX (%) |
| | OC | ORGANIC CONTENT (%) |
| | NP | NON-PLASTIC |
| 8. GRAY TO BROWN SAND TO SAND WITH SILT (DISTURBED) (A-3) | NAVD 88 | NORTH AMERICAN VERTICAL DATUM OF 1988 |
| 9. GRAY TO LIGHT BROWN SILTY SAND (DISTURBED) (A-2-4) | ⊕ | APPROXIMATE AUGER BORING LOCATION |
| 10. DARK GRAY TO DARK BROWN ORGANIC SILTY SAND (DISTURBED) (A-8) | ⊗ | APPROXIMATE SPT BORING LOCATION |
| 11. GRAY TO BROWN CLAYEY SAND (DISTURBED) (A-2-6) | ■ | APPROXIMATE TEST PIT LOCATION |
| 12. GRAY TO BROWN TO GREEN CLAY (DISTURBED) (A-7-5/A-7-6) | ▽ | ESTIMATED SEASONAL HIGH GROUNDWATER TABLE |
| 13. GRAY TO BROWN TO GREEN CLAY (A-7-6) | ▼ | GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS |
| 14. WEATHERED LIMESTONE TO CALCAREOUS CLAY | GNA | GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID AT A DEPTH OF 10 FEET. |
| | GNE | GROUNDWATER NOT ENCOUNTERED |
| | R | HAND AUGER OR MECHANICAL BACK-HOE REFUSAL ON DEBRIS MATERIALS PREVENTING DEEPER EXPLORATION |
| | ↓ | TEST PIT TERMINATED IN DEBRIS MATERIAL; DEBRIS CONTINUES DEEPER |
| | ↙100 | LOSS OF CIRCULATION OF DRILLING FLUID (%) |
| | | CASING |



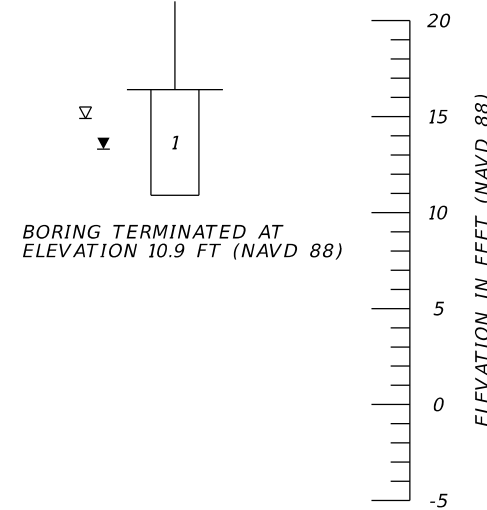
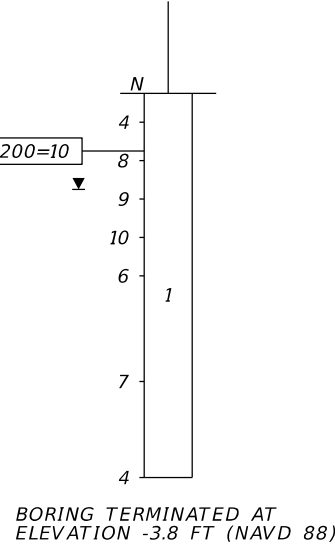
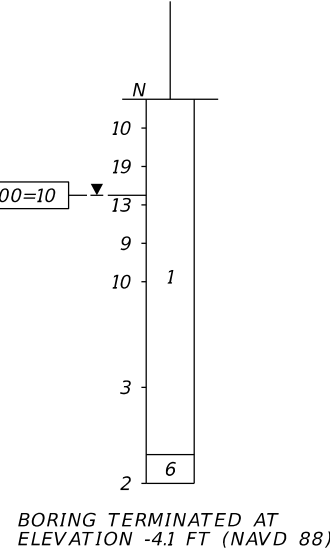
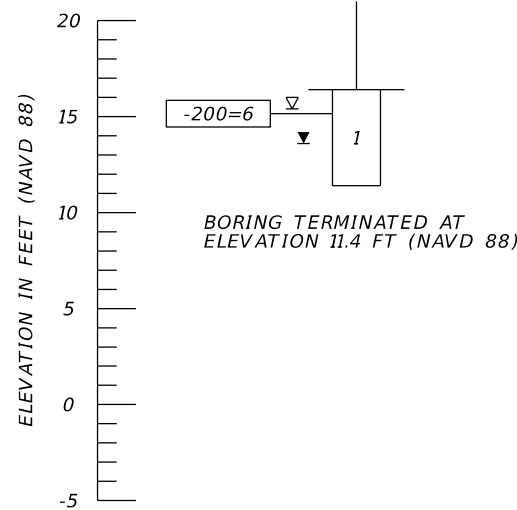
BORING LOCATION PLAN

BOR # PBAI-2*
 STA. 692+56
 REF. Q CONST. 31ST AVE
 OFF. 217' RT.
 ELEV. 16.4
 DATE 1/24/2023

BOR # PBSI-2
 STA. 692+86
 REF. Q CONST. 31ST AVE
 OFF. 142' RT.
 ELEV. 15.9
 DATE 2/7/2023
 DRILLER J. SHAW
 HAMMER AUTOMATIC RIG D-25

BOR # PBSI-1
 STA. 693+00
 REF. Q CONST. 31ST AVE
 OFF. 204' RT.
 ELEV. 16.2
 DATE 2/7/2023
 DRILLER J. SHAW
 HAMMER AUTOMATIC RIG D-25

BOR # PBAI-1*
 STA. 693+30
 REF. Q CONST. 31ST AVE
 OFF. 88' RT.
 ELEV. 16.4
 DATE 1/24/2023

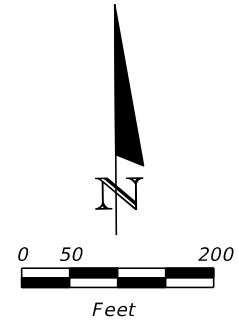
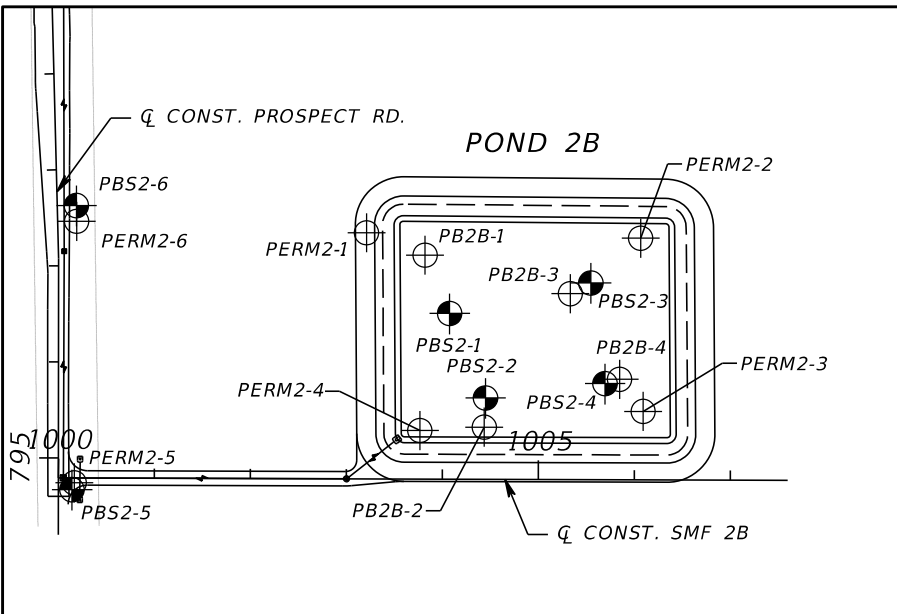


- NOTES:**
- THE LOCATIONS OF THE BORINGS WERE RECORDED IN THE FIELD BY TIERRA, INC. USING GARMIN ETREX HANDHELD GPS EQUIPMENT WITH A REPORTED ACCURACY OF ± 10 FEET. THE GPS COORDINATES RECORDED BY TIERRA WERE UTILIZED IN CONJUNCTION WITH DESIGN FILES TO OBTAIN STATION AND OFFSET. THEREFORE, THE BORING LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. BORINGS DENOTED BY AN ASTERISK (*) WERE LOCATED BY THE PROJECT SURVEYOR.
 - STRATA 8 THROUGH 11 THROUGHOUT THE FPC AREA ARE NOT IN THEIR NATURAL STATE AND LIKELY WERE DEPOSITED WHEN THE DEBRIS MATERIALS WERE BURIED.

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

POND 1

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	MARC E. NOVAK, Ph.D., P.E. P.E. LICENSE NUMBER 67431 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	POND SOIL SURVEY (3)	SHEET NO.	
			DESIGNED BY	BMG	06/2023					
			DRAWN BY	BMG	PROJECT NO.					
			CHECKED BY	MEN	6107860					GR-4



LEGEND

- | | | |
|--|---------|--|
| 1. GRAY TO BROWN SAND TO SAND WITH SILT (A-3) | A-3 | AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW. |
| 2. GRAY TO LIGHT BROWN SILTY SAND (A-2-4) | N | NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED). |
| 3. DARK GRAY TO DARK BROWN SAND TO SAND WITH SILT WITH TRACE ORGANICS (A-3) | 50/4 | NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION |
| 4. DARK GRAY TO DARK BROWN ORGANIC SAND TO SAND WITH SILT (A-8) | HA | HAND AUGERED TO VERIFY UTILITY CLEARANCE |
| 5. GRAY TO BROWN CLAYEY SAND (A-2-6) | WH | SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER |
| 6. GRAY TO BROWN TO GREEN CLAY TO SILT (A-4/A-6/A-7-5) | -200 | PERCENT PASSING #200 SIEVE |
| 7. DEBRIS: SOIL MIXED WITH VARIABLE AMOUNTS OF CONCRETE, BRICK, METAL, PLASTIC, ASPHALT, AND/OR WOOD | NMC | NATURAL MOISTURE CONTENT (%) |
| | LL | LIQUID LIMIT (%) |
| | PI | PLASTICITY INDEX (%) |
| | OC | ORGANIC CONTENT (%) |
| | NP | NON-PLASTIC |
| 8. GRAY TO BROWN SAND TO SAND WITH SILT (DISTURBED) (A-3) | NAVD 88 | NORTH AMERICAN VERTICAL DATUM OF 1988 |
| 9. GRAY TO LIGHT BROWN SILTY SAND (DISTURBED) (A-2-4) | ⊕ | APPROXIMATE AUGER BORING LOCATION |
| 10. DARK GRAY TO DARK BROWN ORGANIC SILTY SAND (DISTURBED) (A-8) | ⊙ | APPROXIMATE SPT BORING LOCATION |
| 11. GRAY TO BROWN CLAYEY SAND (DISTURBED) (A-2-6) | ■ | APPROXIMATE TEST PIT LOCATION |
| 12. GRAY TO BROWN TO GREEN CLAY (DISTURBED) (A-7-5/A-7-6) | ▽ | ESTIMATED SEASONAL HIGH GROUNDWATER TABLE |
| 13. GRAY TO BROWN TO GREEN CLAY (A-7-6) | ▼ | GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS |
| 14. WEATHERED LIMESTONE TO CALCAREOUS CLAY | GNA | GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID AT A DEPTH OF 10 FEET. |
| | GNE | GROUNDWATER NOT ENCOUNTERED |
| | R | HAND AUGER OR MECHANICAL BACK-HOE REFUSAL ON DEBRIS MATERIALS PREVENTING DEEPER EXPLORATION |
| | ⬇ | TEST PIT TERMINATED IN DEBRIS MATERIAL; DEBRIS CONTINUES DEEPER |
| | ⬅700 | LOSS OF CIRCULATION OF DRILLING FLUID (%) |
| | | CASING |

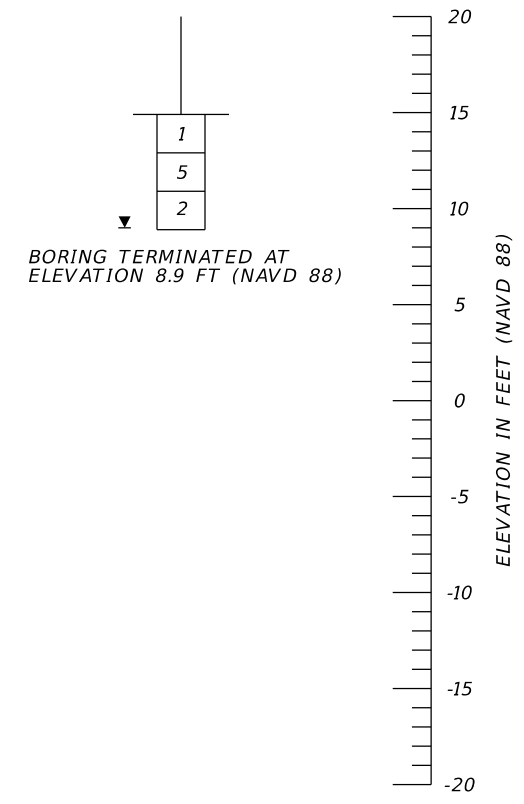
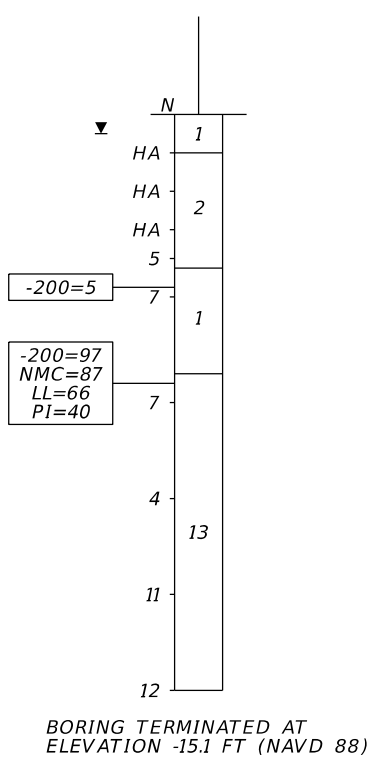
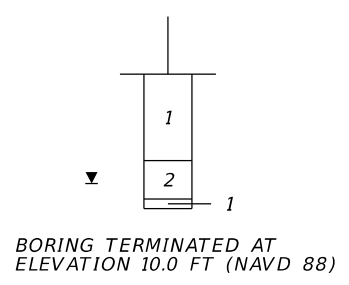
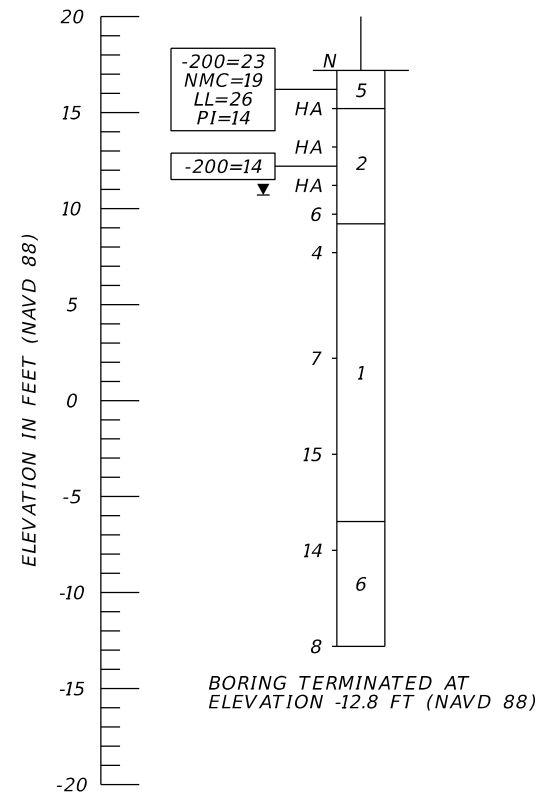
BORING LOCATION PLAN

BOR # PBS2-5
 STA. 1000+14
 REF. Q CONST. SMF 2B
 OFF. 12' RT.
 ELEV. 17.2
 DATE 5/1/2023
 DRILLER C. VIRGEN
 HAMMER AUTOMATIC
 RIG D-25

BOR # PERM2-5
 STA. 1000+16
 REF. Q CONST. SMF 2B
 OFF. 5' RT.
 ELEV. 17.0
 DATE 3/21/2023

BOR # PBS2-6
 STA. 1000+18
 REF. Q CONST. SMF 2B
 OFF. 284' LT.
 ELEV. 14.9
 DATE 5/1/2023
 DRILLER C. VIRGEN
 HAMMER AUTOMATIC
 RIG D-25

BOR # PERM2-6
 STA. 1000+18
 REF. Q CONST. SMF 2B
 OFF. 267' LT.
 ELEV. 14.9
 DATE 3/21/2023



NOTES:
 1. THE LOCATIONS OF THE BORINGS WERE RECORDED IN THE FIELD BY TIERRA, INC. USING GARMIN ETREX HANDHELD GPS EQUIPMENT WITH A REPORTED ACCURACY OF ± 10 FEET. THE GPS COORDINATES RECORDED BY TIERRA WERE UTILIZED IN CONJUNCTION WITH DESIGN FILES TO OBTAIN STATION AND OFFSET. THEREFORE, THE BORING LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. BORINGS DENOTED BY AN ASTERISK (*) WERE LOCATED BY THE PROJECT SURVEYOR.
 2. STRATA 8 THROUGH 11 THROUGHOUT THE FPC AREA ARE NOT IN THEIR NATURAL STATE AND LIKELY WERE DEPOSITED WHEN THE DEBRIS MATERIALS WERE BURIED.

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

POND 2B

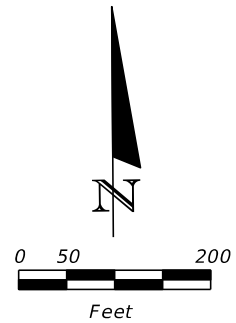
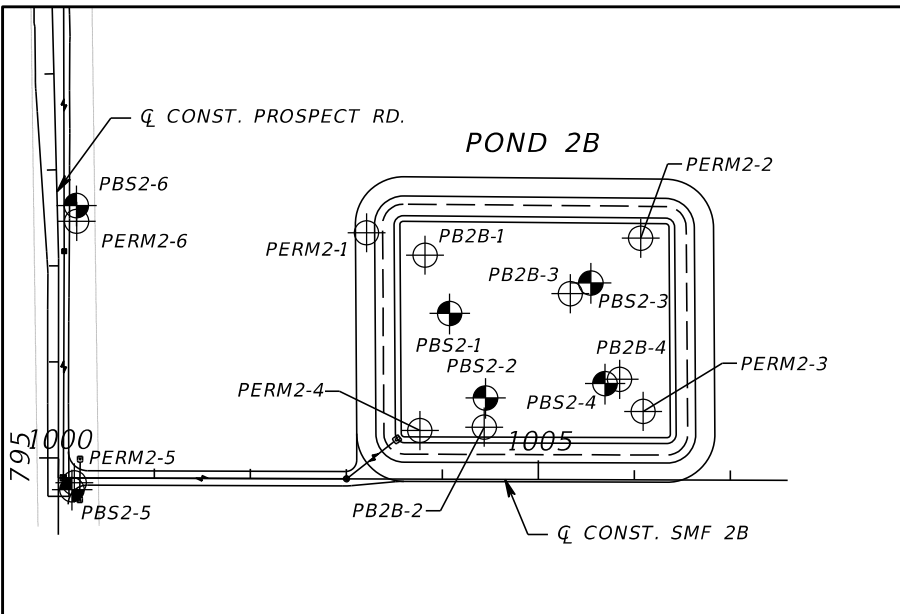
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	BMG	06/2023
			DRAWN BY	BMG	PROJECT NO.
			CHECKED BY	MEN	6107860

MARC E. NOVAK, Ph.D., P.E.
 P.E. LICENSE NUMBER 67431
 TIERRA, INC.
 7351 TEMPLE TERRACE HIGHWAY
 TAMPA, FLORIDA 33637

PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

POND SOIL SURVEY (4)

SHEET NO.
 GR-5



LEGEND

- | | | |
|--|---------|--|
| 1. GRAY TO BROWN SAND TO SAND WITH SILT (A-3) | A-3 | AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW. |
| 2. GRAY TO LIGHT BROWN SILTY SAND (A-2-4) | N | NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED). |
| 3. DARK GRAY TO DARK BROWN SAND TO SAND WITH SILT WITH TRACE ORGANICS (A-3) | 50/4 | NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION |
| 4. DARK GRAY TO DARK BROWN ORGANIC SAND TO SAND WITH SILT (A-8) | HA | HAND AUGERED TO VERIFY UTILITY CLEARANCE |
| 5. GRAY TO BROWN CLAYEY SAND (A-2-6) | WH | SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER |
| 6. GRAY TO BROWN TO GREEN CLAY TO SILT (A-4/A-6/A-7-5) | -200 | PERCENT PASSING #200 SIEVE |
| 7. DEBRIS: SOIL MIXED WITH VARIABLE AMOUNTS OF CONCRETE, BRICK, METAL, PLASTIC, ASPHALT, AND/OR WOOD | NMC | NATURAL MOISTURE CONTENT (%) |
| 8. GRAY TO BROWN SAND TO SAND WITH SILT (DISTURBED) (A-3) | LL | LIQUID LIMIT (%) |
| 9. GRAY TO LIGHT BROWN SILTY SAND (DISTURBED) (A-2-4) | PI | PLASTICITY INDEX (%) |
| 10. DARK GRAY TO DARK BROWN ORGANIC SILTY SAND (DISTURBED) (A-8) | OC | ORGANIC CONTENT (%) |
| 11. GRAY TO BROWN CLAYEY SAND (DISTURBED) (A-2-6) | NP | NON-PLASTIC |
| 12. GRAY TO BROWN TO GREEN CLAY (DISTURBED) (A-7-5/A-7-6) | NAVD 88 | NORTH AMERICAN VERTICAL DATUM OF 1988 |
| 13. GRAY TO BROWN TO GREEN CLAY (A-7-6) | ⊕ | APPROXIMATE AUGER BORING LOCATION |
| 14. WEATHERED LIMESTONE TO CALCAREOUS CLAY | ⊗ | APPROXIMATE SPT BORING LOCATION |
| | ■ | APPROXIMATE TEST PIT LOCATION |
| | ▽ | ESTIMATED SEASONAL HIGH GROUNDWATER TABLE |
| | ▼ | GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS |
| | GNA | GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID AT A DEPTH OF 10 FEET. |
| | GNE | GROUNDWATER NOT ENCOUNTERED |
| | R | HAND AUGER OR MECHANICAL BACK-HOE REFUSAL ON DEBRIS MATERIALS PREVENTING DEEPER EXPLORATION |
| | ⬇ | TEST PIT TERMINATED IN DEBRIS MATERIAL; DEBRIS CONTINUES DEEPER |
| | ⬅700 | LOSS OF CIRCULATION OF DRILLING FLUID (%) |
| | | CASING |

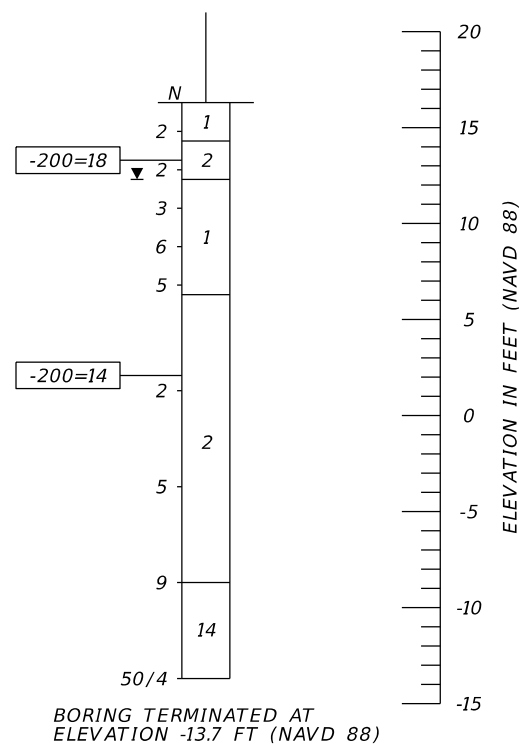
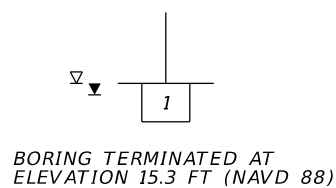
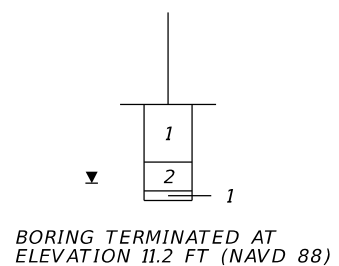
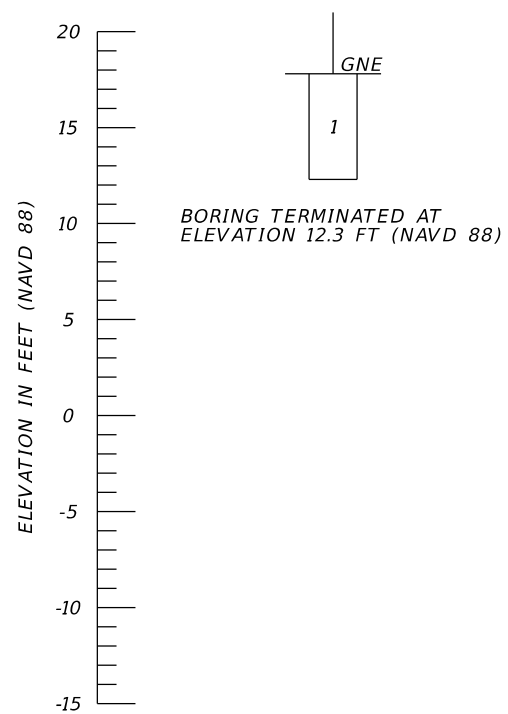
BORING LOCATION PLAN

BOR # PERM2-1
 STA. 1003+20
 REF. Q CONST. SMF 2B
 OFF. 256' LT.
 ELEV. 17.8
 DATE 3/20/2023

BOR # PERM2-4
 STA. 1003+76
 REF. Q CONST. SMF 2B
 OFF. 51' LT.
 ELEV. 16.2
 DATE 3/20/2023

BOR # PB2B-1*
 STA. 1003+81
 REF. Q CONST. SMF 2B
 OFF. 233' LT.
 ELEV. 17.3
 DATE 9/22/2022

BOR # PBS2-1
 STA. 1004+07
 REF. Q CONST. SMF 2B
 OFF. 173' LT.
 ELEV. 16.3
 DATE 3/10/2023
 DRILLER M. ATKINSON
 HAMMER AUTOMATIC
 RIG D-25



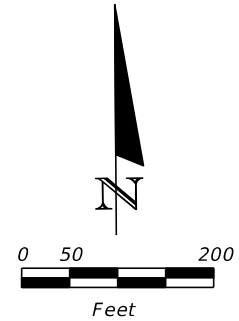
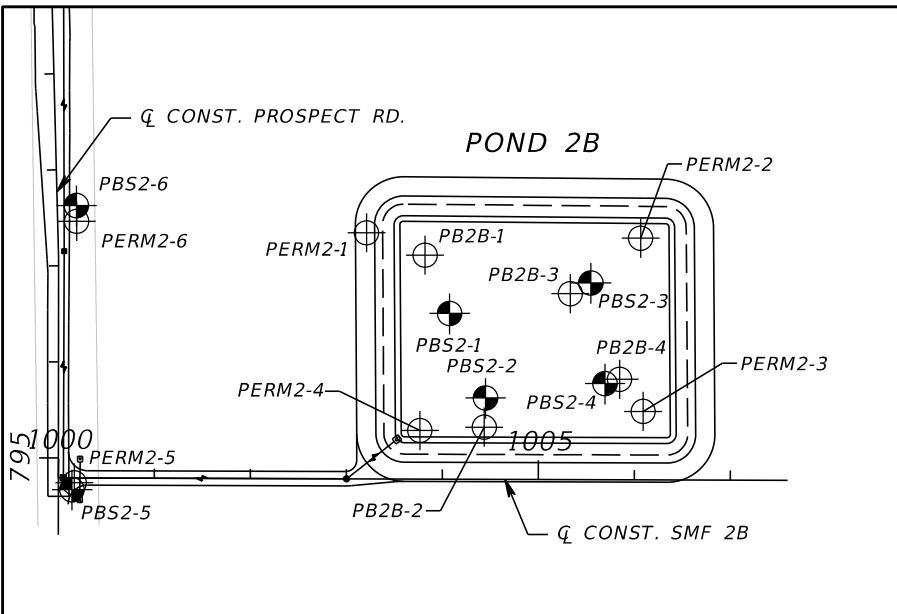
- NOTES:**
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 - STRATA 8 THROUGH 11 THROUGHOUT THE FPC AREA ARE NOT IN THEIR NATURAL STATE AND LIKELY WERE DEPOSITED WHEN THE DEBRIS MATERIALS WERE BURIED.

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

POND 2B

POND SOIL SURVEY (5)

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	MARC E. NOVAK, Ph.D., P.E. P.E. LICENSE NUMBER 67431 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	SHEET NO.
			DESIGNED BY	BMG	06/2023			
			DRAWN BY	BMG	PROJECT NO.			
			CHECKED BY	MEN	6107860			GR-6



LEGEND

- | | | |
|--|---------|--|
| 1. GRAY TO BROWN SAND TO SAND WITH SILT (A-3) | A-3 | AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW. |
| 2. GRAY TO LIGHT BROWN SILTY SAND (A-2-4) | N | NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED). |
| 3. DARK GRAY TO DARK BROWN SAND TO SAND WITH SILT WITH TRACE ORGANICS (A-3) | 50/4 | NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION |
| 4. DARK GRAY TO DARK BROWN ORGANIC SAND TO SAND WITH SILT (A-8) | HA | HAND AUGERED TO VERIFY UTILITY CLEARANCE |
| 5. GRAY TO BROWN CLAYEY SAND (A-2-6) | WH | SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER |
| 6. GRAY TO BROWN TO GREEN CLAY TO SILT (A-4/A-6/A-7-5) | -200 | PERCENT PASSING #200 SIEVE |
| 7. DEBRIS: SOIL MIXED WITH VARIABLE AMOUNTS OF CONCRETE, BRICK, METAL, PLASTIC, ASPHALT, AND/OR WOOD | NMC | NATURAL MOISTURE CONTENT (%) |
| 8. GRAY TO BROWN SAND TO SAND WITH SILT (DISTURBED) (A-3) | LL | LIQUID LIMIT (%) |
| 9. GRAY TO LIGHT BROWN SILTY SAND (DISTURBED) (A-2-4) | PI | PLASTICITY INDEX (%) |
| 10. DARK GRAY TO DARK BROWN ORGANIC SILTY SAND (DISTURBED) (A-8) | OC | ORGANIC CONTENT (%) |
| 11. GRAY TO BROWN CLAYEY SAND (DISTURBED) (A-2-6) | NP | NON-PLASTIC |
| 12. GRAY TO BROWN TO GREEN CLAY (DISTURBED) (A-7-5/A-7-6) | NAVD 88 | NORTH AMERICAN VERTICAL DATUM OF 1988 |
| 13. GRAY TO BROWN TO GREEN CLAY (A-7-6) | ⊕ | APPROXIMATE AUGER BORING LOCATION |
| 14. WEATHERED LIMESTONE TO CALCAREOUS CLAY | ⊙ | APPROXIMATE SPT BORING LOCATION |
| | ■ | APPROXIMATE TEST PIT LOCATION |
| | ▽ | ESTIMATED SEASONAL HIGH GROUNDWATER TABLE |
| | ▼ | GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS |
| | GNA | GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID AT A DEPTH OF 10 FEET. |
| | GNE | GROUNDWATER NOT ENCOUNTERED |
| | R | HAND AUGER OR MECHANICAL BACK-HOE REFUSAL ON DEBRIS MATERIALS PREVENTING DEEPER EXPLORATION |
| | ⬇ | TEST PIT TERMINATED IN DEBRIS MATERIAL; DEBRIS CONTINUES DEEPER |
| | ⬇100 | LOSS OF CIRCULATION OF DRILLING FLUID (%) |
| | | CASING |

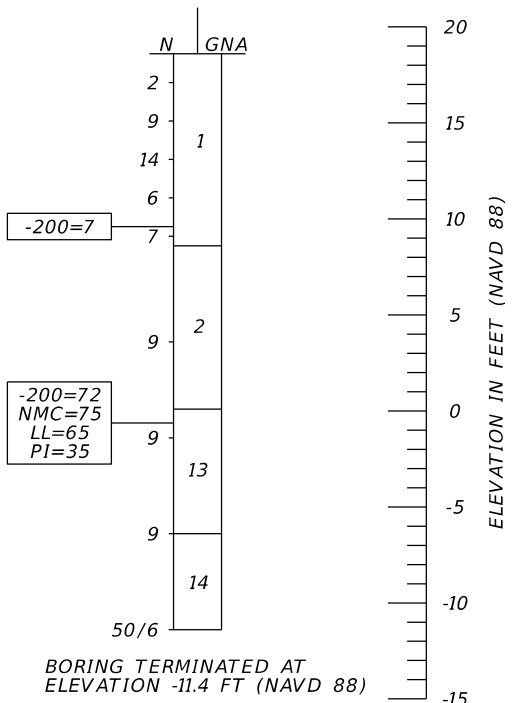
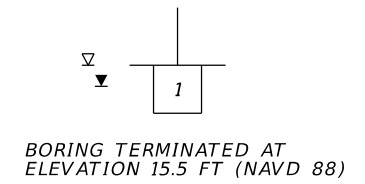
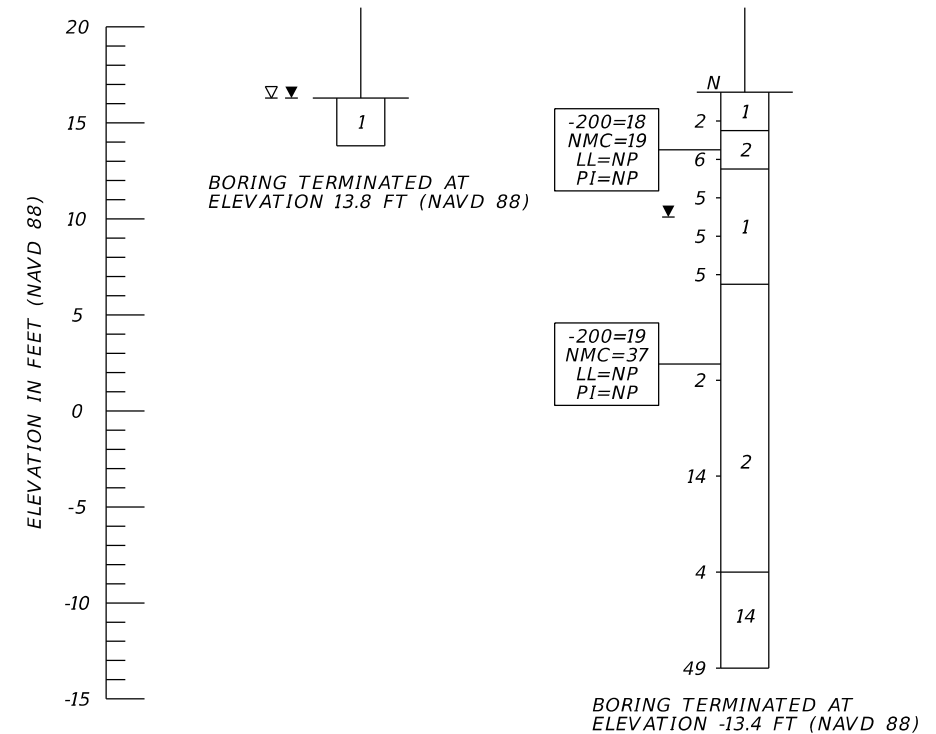
BORING LOCATION PLAN

BOR # PB2B-2*
 STA. 1004+44
 REF. CL CONST. SMF 2B
 OFF. 54' LT.
 ELEV. 16.3
 DATE 9/22/2022

BOR # PBS2-2
 STA. 1004+45
 REF. CL CONST. SMF 2B
 OFF. 85' LT.
 ELEV. 16.6
 DATE 3/10/2023
 DRILLER M. ATKINSON
 HAMMER AUTOMATIC
 RIG D-25

BOR # PB2B-3*
 STA. 1005+33
 REF. CL CONST. SMF 2B
 OFF. 194' LT.
 ELEV. 18.0
 DATE 9/22/2022

BOR # PBS2-3
 STA. 1005+54
 REF. CL CONST. SMF 2B
 OFF. 205' LT.
 ELEV. 18.6
 DATE 3/10/2023
 DRILLER M. ATKINSON
 HAMMER AUTOMATIC
 RIG D-25



NOTES:
 1. THE LOCATIONS OF THE BORINGS WERE RECORDED IN THE FIELD BY TIERRA, INC. USING GARMIN ETREX HANDHELD GPS EQUIPMENT WITH A REPORTED ACCURACY OF ± 10 FEET. THE GPS COORDINATES RECORDED BY TIERRA WERE UTILIZED IN CONJUNCTION WITH DESIGN FILES TO OBTAIN STATION AND OFFSET. THEREFORE, THE BORING LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. BORINGS DENOTED BY AN ASTERISK (*) WERE LOCATED BY THE PROJECT SURVEYOR.
 2. STRATA 8 THROUGH 11 THROUGHOUT THE FPC AREA ARE NOT IN THEIR NATURAL STATE AND LIKELY WERE DEPOSITED WHEN THE DEBRIS MATERIALS WERE BURIED.

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

POND 2B

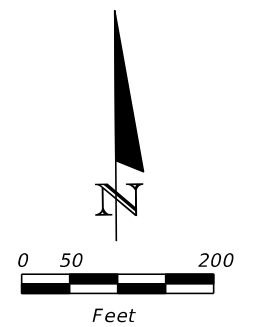
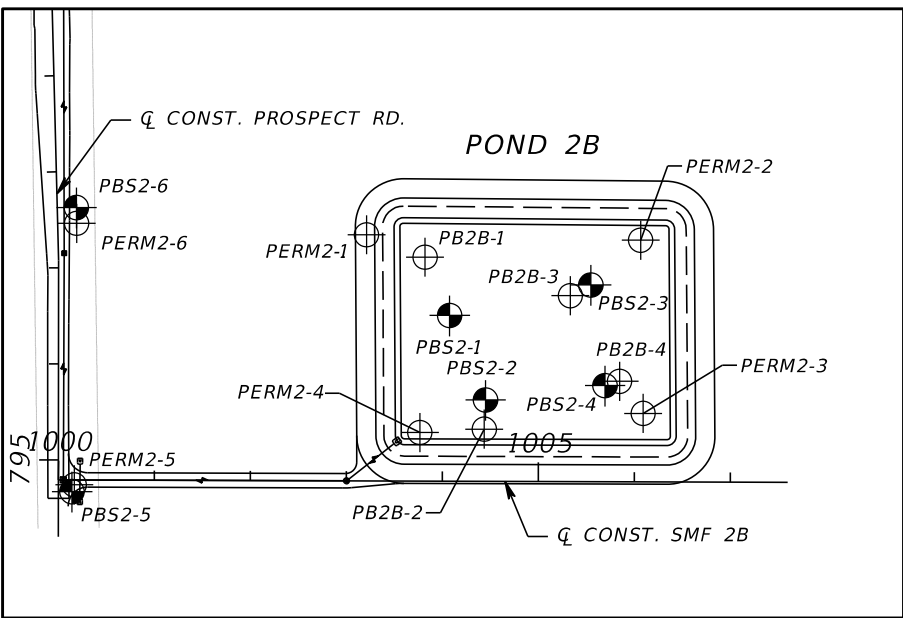
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	BMG	06/2023
			DRAWN BY	BMG	PROJECT NO.
			CHECKED BY	MEN	6107860

MARC E. NOVAK, Ph.D., P.E.
 P.E. LICENSE NUMBER 67431
 TIERRA, INC.
 7351 TEMPLE TERRACE HIGHWAY
 TAMPA, FLORIDA 33637

PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

POND SOIL SURVEY (6)

SHEET NO.
 GR-7



LEGEND

- | | | |
|--|---------|--|
| 1. GRAY TO BROWN SAND TO SAND WITH SILT (A-3) | A-3 | AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW. |
| 2. GRAY TO LIGHT BROWN SILTY SAND (A-2-4) | N | NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED). |
| 3. DARK GRAY TO DARK BROWN SAND TO SAND WITH SILT WITH TRACE ORGANICS (A-3) | 50/4 | NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION |
| 4. DARK GRAY TO DARK BROWN ORGANIC SAND TO SAND WITH SILT (A-8) | HA | HAND AUGERED TO VERIFY UTILITY CLEARANCE |
| 5. GRAY TO BROWN CLAYEY SAND (A-2-6) | WH | SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER |
| 6. GRAY TO BROWN TO GREEN CLAY TO SILT (A-4/A-6/A-7-5) | -200 | PERCENT PASSING #200 SIEVE |
| 7. DEBRIS: SOIL MIXED WITH VARIABLE AMOUNTS OF CONCRETE, BRICK, METAL, PLASTIC, ASPHALT, AND/OR WOOD | NMC | NATURAL MOISTURE CONTENT (%) |
| | LL | LIQUID LIMIT (%) |
| | PI | PLASTICITY INDEX (%) |
| | OC | ORGANIC CONTENT (%) |
| | NP | NON-PLASTIC |
| 8. GRAY TO BROWN SAND TO SAND WITH SILT (DISTURBED) (A-3) | NAVD 88 | NORTH AMERICAN VERTICAL DATUM OF 1988 |
| 9. GRAY TO LIGHT BROWN SILTY SAND (DISTURBED) (A-2-4) | ⊕ | APPROXIMATE AUGER BORING LOCATION |
| 10. DARK GRAY TO DARK BROWN ORGANIC SILTY SAND (DISTURBED) (A-8) | ⊙ | APPROXIMATE SPT BORING LOCATION |
| 11. GRAY TO BROWN CLAYEY SAND (DISTURBED) (A-2-6) | ■ | APPROXIMATE TEST PIT LOCATION |
| 12. GRAY TO BROWN TO GREEN CLAY (DISTURBED) (A-7-5/A-7-6) | ▽ | ESTIMATED SEASONAL HIGH GROUNDWATER TABLE |
| 13. GRAY TO BROWN TO GREEN CLAY (A-7-6) | ▼ | GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS |
| 14. WEATHERED LIMESTONE TO CALCAREOUS CLAY | GNA | GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID AT A DEPTH OF 10 FEET. |
| | GNE | GROUNDWATER NOT ENCOUNTERED |
| | R | HAND AUGER OR MECHANICAL BACK-HOE REFUSAL ON DEBRIS MATERIALS PREVENTING DEEPER EXPLORATION |
| | ⬇ | TEST PIT TERMINATED IN DEBRIS MATERIAL; DEBRIS CONTINUES DEEPER |
| | ⬅100 | LOSS OF CIRCULATION OF DRILLING FLUID (%) |
| | | CASING |

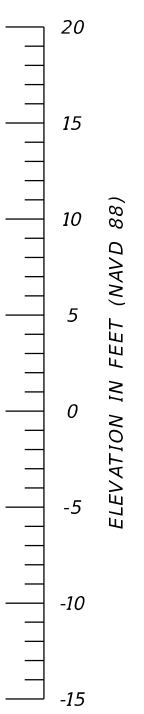
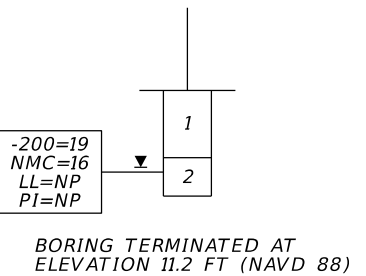
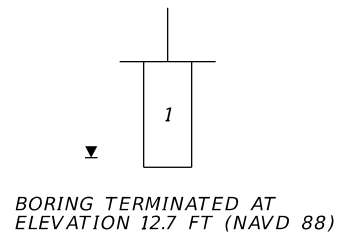
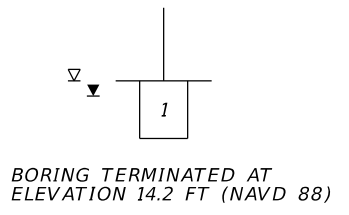
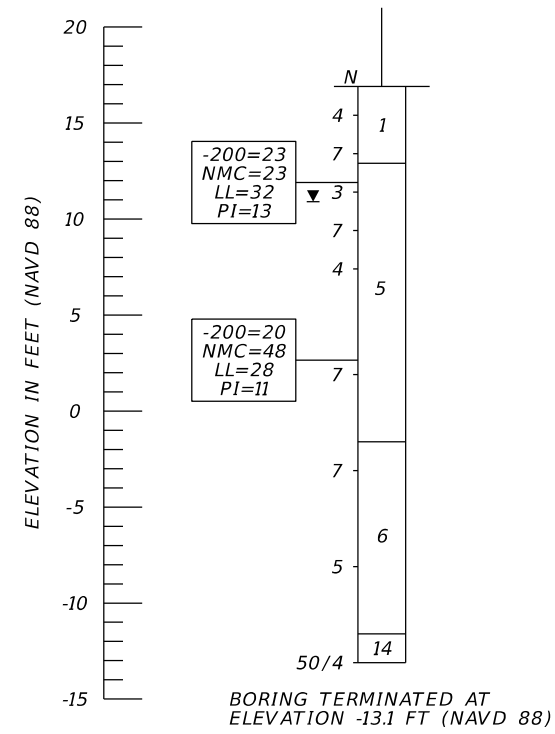
BORING LOCATION PLAN

BOR # PBS2-4
 STA. 1005+69
 REF. Q CONST. SMF 2B
 OFF. 100' LT.
 ELEV. 16.9
 DATE 3/10/2023
 DRILLER M. ATKINSON
 HAMMER AUTOMATIC
 RIG D-25

BOR # PB2B-4*
 STA. 1005+84
 REF. Q CONST. SMF 2B
 OFF. 104' LT.
 ELEV. 17.2
 DATE 9/22/2022

BOR # PERM2-2
 STA. 1006+06
 REF. Q CONST. SMF 2B
 OFF. 252' LT.
 ELEV. 18.2
 DATE 3/20/2023

BOR # PERM2-3
 STA. 1006+09
 REF. Q CONST. SMF 2B
 OFF. 71' LT.
 ELEV. 16.7
 DATE 3/20/2023



NOTES:
 1. THE LOCATIONS OF THE BORINGS WERE RECORDED IN THE FIELD BY TIERRA, INC. USING GARMIN ETREX HANDHELD GPS EQUIPMENT WITH A REPORTED ACCURACY OF ± 10 FEET. THE GPS COORDINATES RECORDED BY TIERRA WERE UTILIZED IN CONJUNCTION WITH DESIGN FILES TO OBTAIN STATION AND OFFSET. THEREFORE, THE BORING LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. BORINGS DENOTED BY AN ASTERISK (*) WERE LOCATED BY THE PROJECT SURVEYOR.
 2. STRATA 8 THROUGH 11 THROUGHOUT THE FPC AREA ARE NOT IN THEIR NATURAL STATE AND LIKELY WERE DEPOSITED WHEN THE DEBRIS MATERIALS WERE BURIED.

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

POND 2B

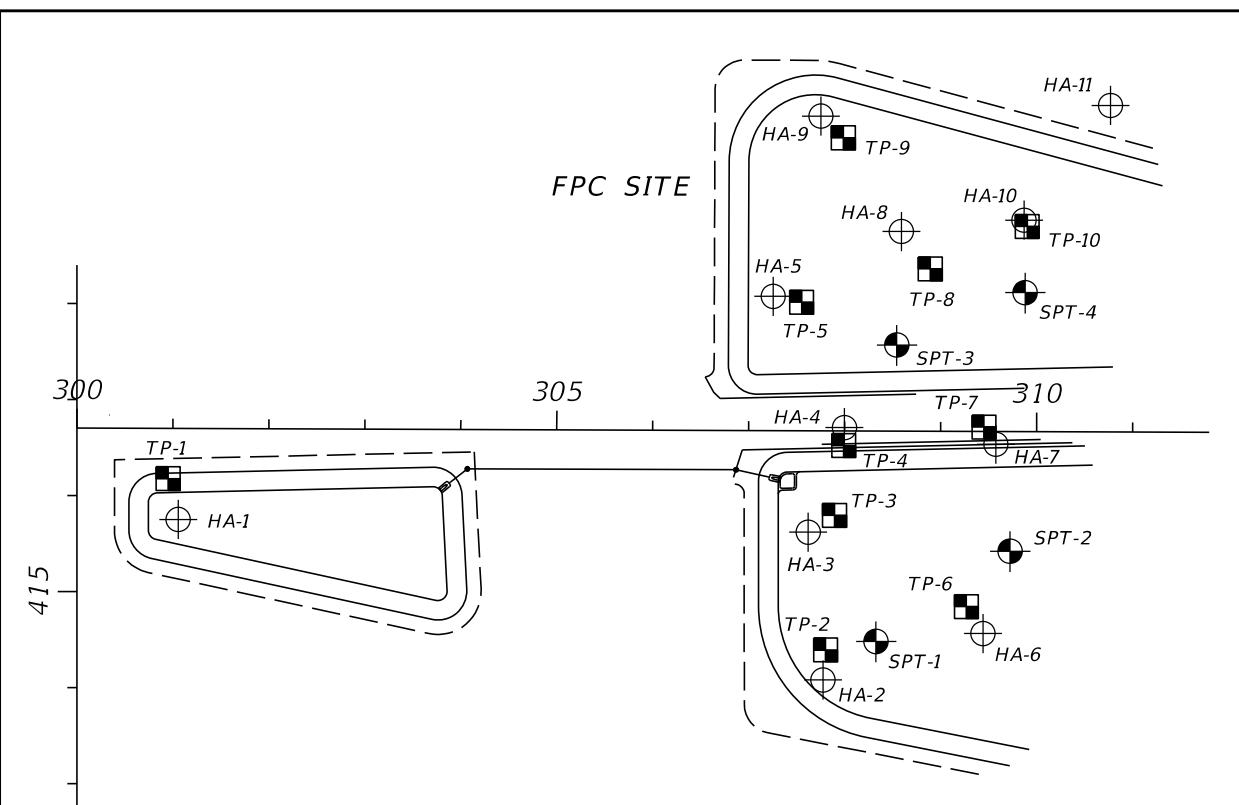
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	BMG	06/2023
			DRAWN BY	BMG	PROJECT NO.
			CHECKED BY	MEN	6107860

MARC E. NOVAK, Ph.D., P.E.
 P.E. LICENSE NUMBER 67431
 TIERRA, INC.
 7351 TEMPLE TERRACE HIGHWAY
 TAMPA, FLORIDA 33637

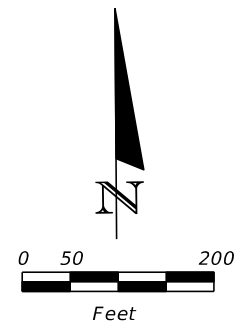
PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

POND SOIL SURVEY (7)

SHEET NO.
 GR-8



BORING LOCATION PLAN



- LEGEND**
- GRAY TO BROWN SAND TO SAND WITH SILT (A-3)
 - GRAY TO LIGHT BROWN SILTY SAND (A-2-4)
 - DARK GRAY TO DARK BROWN SAND TO SAND WITH SILT WITH TRACE ORGANICS (A-3)
 - DARK GRAY TO DARK BROWN ORGANIC SAND TO SAND WITH SILT (A-8)
 - GRAY TO BROWN CLAYEY SAND (A-2-6)
 - GRAY TO BROWN TO GREEN CLAY TO SILT (A-4/A-6/A-7-5)
 - DEBRIS: SOIL MIXED WITH VARIABLE AMOUNTS OF CONCRETE, BRICK, METAL, PLASTIC, ASPHALT, AND/OR WOOD
 - GRAY TO BROWN SAND TO SAND WITH SILT (DISTURBED) (A-3)
 - GRAY TO LIGHT BROWN SILTY SAND (DISTURBED) (A-2-4)
 - DARK GRAY TO DARK BROWN ORGANIC SILTY SAND (DISTURBED) (A-8)
 - GRAY TO BROWN CLAYEY SAND (DISTURBED) (A-2-6)
 - GRAY TO BROWN TO GREEN CLAY (DISTURBED) (A-7-5/A-7-6)
 - GRAY TO BROWN TO GREEN CLAY (A-7-6)
 - WEATHERED LIMESTONE TO CALCAREOUS CLAY

- | | |
|---------|--|
| A-3 | AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW. |
| N | NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED). |
| 50/4 | NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION |
| HA | HAND AUGERED TO VERIFY UTILITY CLEARANCE |
| WH | SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER |
| -200 | PERCENT PASSING #200 SIEVE |
| NMC | NATURAL MOISTURE CONTENT (%) |
| LL | LIQUID LIMIT (%) |
| PI | PLASTICITY INDEX (%) |
| OC | ORGANIC CONTENT (%) |
| NP | NON-PLASTIC |
| NAVD 88 | NORTH AMERICAN VERTICAL DATUM OF 1988 |
| ⊕ | APPROXIMATE AUGER BORING LOCATION |
| ⊙ | APPROXIMATE SPT BORING LOCATION |
| ■ | APPROXIMATE TEST PIT LOCATION |
| ▽ | ESTIMATED SEASONAL HIGH GROUNDWATER TABLE |
| ▼ | GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS |
| GNA | GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID AT A DEPTH OF 10 FEET. |
| GNE | GROUNDWATER NOT ENCOUNTERED |
| R | HAND AUGER OR MECHANICAL BACK-HOE REFUSAL ON DEBRIS MATERIALS PREVENTING DEEPER EXPLORATION |
| ⬇ | TEST PIT TERMINATED IN DEBRIS MATERIAL; DEBRIS CONTINUES DEEPER |
| ⬅700 | LOSS OF CIRCULATION OF DRILLING FLUID (%) |
| | CASING |

NOTES:

- THE LOCATIONS OF THE BORINGS WERE RECORDED IN THE FIELD BY TIERRA, INC. USING GARMIN ETREX HANDHELD GPS EQUIPMENT WITH A REPORTED ACCURACY OF ± 10 FEET. THE GPS COORDINATES RECORDED BY TIERRA WERE UTILIZED IN CONJUNCTION WITH DESIGN FILES TO OBTAIN STATION AND OFFSET. THEREFORE, THE BORING LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. BORINGS DENOTED BY AN ASTERISK (*) WERE LOCATED BY THE PROJECT SURVEYOR.
- STRATA 8 THROUGH 11 THROUGHOUT THE FPC AREA ARE NOT IN THEIR NATURAL STATE AND LIKELY WERE DEPOSITED WHEN THE DEBRIS MATERIALS WERE BURIED.

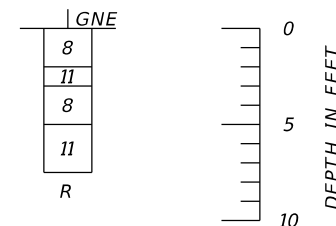
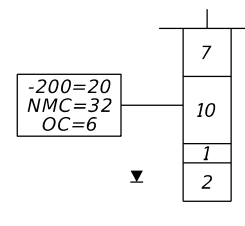
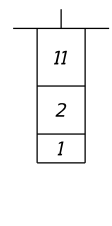
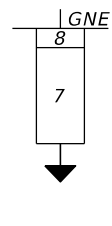
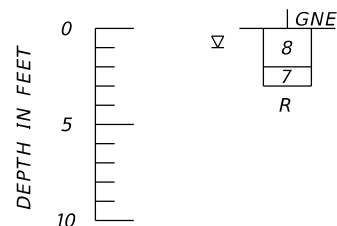
BOR # HA-1
STA. 301+06
REF. Q CONST. FPC
OFF. 52' RT.
DATE 2/2/2023

BOR # TP-1
STA. 300+95
REF. Q CONST. FPC
OFF. 52' RT.
DATE 2/1/2023

BOR # HA-5
STA. 307+25
REF. Q CONST. FPC
OFF. 140' LT.
DATE 2/1/2023

BOR # TP-5
STA. 307+55
REF. Q CONST. FPC
OFF. 134' LT.
DATE 2/1/2023

BOR # HA-3
STA. 307+62
REF. Q CONST. FPC
OFF. 105' RT.
DATE 2/1/2023



	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

FPC SITE

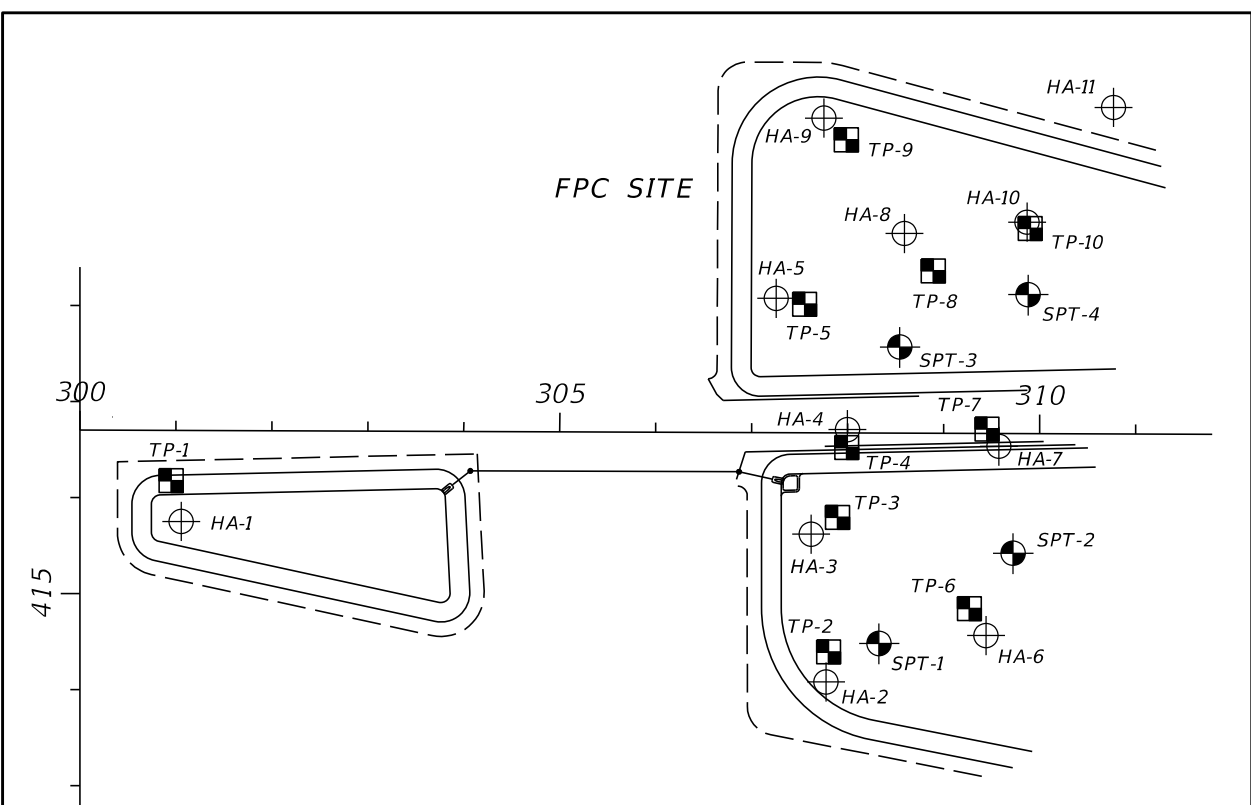
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	BMG	06/2023
			DRAWN BY	BMG	PROJECT NO.
			CHECKED BY	MEN	6107860

MARC E. NOVAK, Ph.D., P.E.
P.E. LICENSE NUMBER 67431
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

POND SOIL SURVEY (8)

SHEET NO.
GR-9



BORING LOCATION PLAN

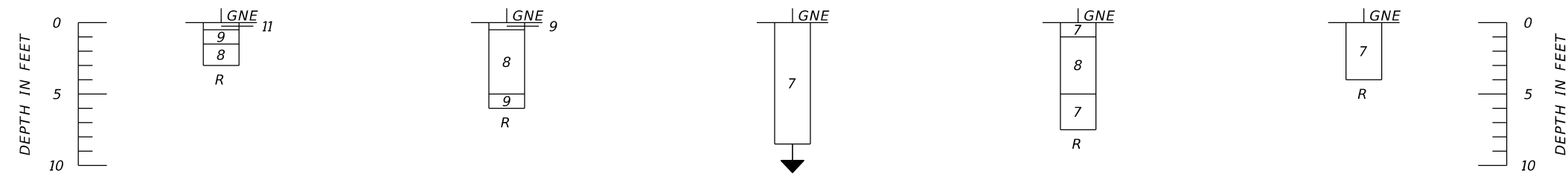
LEGEND

- | | | |
|--|---------|--|
| 1. GRAY TO BROWN SAND TO SAND WITH SILT (A-3) | A-3 | AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW. |
| 2. GRAY TO LIGHT BROWN SILTY SAND (A-2-4) | N | NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED). |
| 3. DARK GRAY TO DARK BROWN SAND TO SAND WITH SILT WITH TRACE ORGANICS (A-3) | 50/4 | NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION |
| 4. DARK GRAY TO DARK BROWN ORGANIC SAND TO SAND WITH SILT (A-8) | HA | HAND AUGERED TO VERIFY UTILITY CLEARANCE |
| 5. GRAY TO BROWN CLAYEY SAND (A-2-6) | WH | SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER |
| 6. GRAY TO BROWN TO GREEN CLAY TO SILT (A-4/A-6/A-7-5) | -200 | PERCENT PASSING #200 SIEVE |
| 7. DEBRIS: SOIL MIXED WITH VARIABLE AMOUNTS OF CONCRETE, BRICK, METAL, PLASTIC, ASPHALT, AND/OR WOOD | NMC | NATURAL MOISTURE CONTENT (%) |
| 8. GRAY TO BROWN SAND TO SAND WITH SILT (DISTURBED) (A-3) | LL | LIQUID LIMIT (%) |
| 9. GRAY TO LIGHT BROWN SILTY SAND (DISTURBED) (A-2-4) | PI | PLASTICITY INDEX (%) |
| 10. DARK GRAY TO DARK BROWN ORGANIC SILTY SAND (DISTURBED) (A-8) | OC | ORGANIC CONTENT (%) |
| 11. GRAY TO BROWN CLAYEY SAND (DISTURBED) (A-2-6) | NP | NON-PLASTIC |
| 12. GRAY TO BROWN TO GREEN CLAY (DISTURBED) (A-7-5/A-7-6) | NAVD 88 | NORTH AMERICAN VERTICAL DATUM OF 1988 |
| 13. GRAY TO BROWN TO GREEN CLAY (A-7-6) | ⊕ | APPROXIMATE AUGER BORING LOCATION |
| 14. WEATHERED LIMESTONE TO CALCAREOUS CLAY | ⊙ | APPROXIMATE SPT BORING LOCATION |
| | ■ | APPROXIMATE TEST PIT LOCATION |
| | ∇ | ESTIMATED SEASONAL HIGH GROUNDWATER TABLE |
| | ▼ | GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS |
| | GNA | GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID AT A DEPTH OF 10 FEET. |
| | GNE | GROUNDWATER NOT ENCOUNTERED |
| | R | HAND AUGER OR MECHANICAL BACK-HOE REFUSAL ON DEBRIS MATERIALS PREVENTING DEEPER EXPLORATION |
| | ↓ | TEST PIT TERMINATED IN DEBRIS MATERIAL; DEBRIS CONTINUES DEEPER |
| | ↙ | LOSS OF CIRCULATION OF DRILLING FLUID (%) |
| | | CASING |

NOTES:

1. THE LOCATIONS OF THE BORINGS WERE RECORDED IN THE FIELD BY TIERRA, INC. USING GARMIN ETREX HANDHELD GPS EQUIPMENT WITH A REPORTED ACCURACY OF ± 10 FEET. THE GPS COORDINATES RECORDED BY TIERRA WERE UTILIZED IN CONJUNCTION WITH DESIGN FILES TO OBTAIN STATION AND OFFSET. THEREFORE, THE BORING LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. BORINGS DENOTED BY AN ASTERISK (*) WERE LOCATED BY THE PROJECT SURVEYOR.
2. STRATA 8 THROUGH 11 THROUGHOUT THE FPC AREA ARE NOT IN THEIR NATURAL STATE AND LIKELY WERE DEPOSITED WHEN THE DEBRIS MATERIALS WERE BURIED.

BOR # HA-9 STA. 307+74 REF. Q CONST. FPC OFF. 328' LT. DATE 2/1/2023	BOR # HA-2 STA. 307+79 REF. Q CONST. FPC OFF. 260' RT. DATE 2/2/2023	BOR # TP-2 STA. 307+81 REF. Q CONST. FPC OFF. 228' RT. DATE 2/1/2023	BOR # TP-3 STA. 307+90 REF. Q CONST. FPC OFF. 88' RT. DATE 2/1/2023	BOR # TP-9 STA. 307+97 REF. Q CONST. FPC OFF. 305' LT. DATE 2/2/2023
--	--	--	---	--



	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

FPC SITE

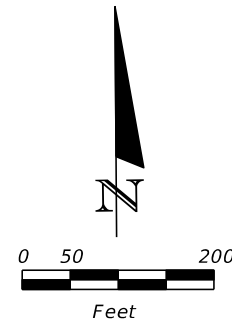
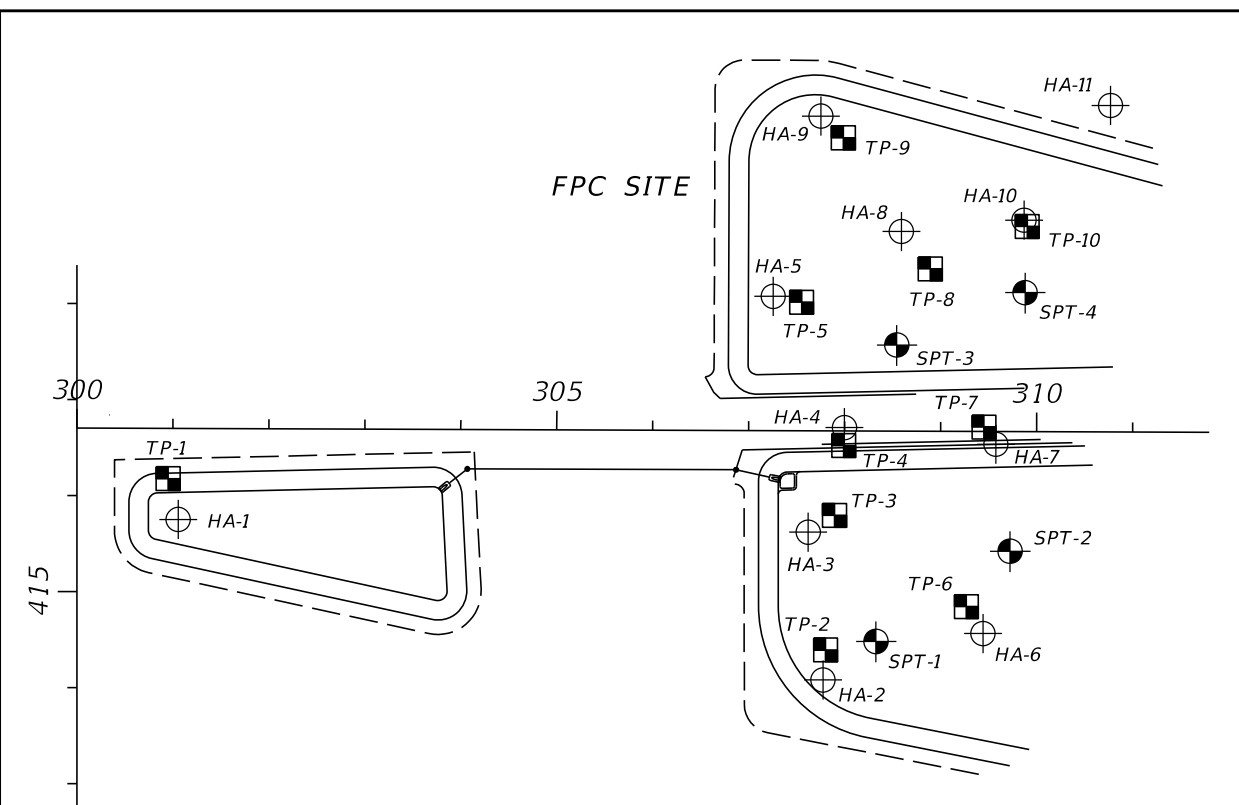
NUMBER	DESCRIPTION	DATE

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P.E. LICENSE NUMBER 67431
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7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East
Bradenton, FL 34208

POND SOIL SURVEY (9)

SHEET NO.
GR-10



BORING LOCATION PLAN

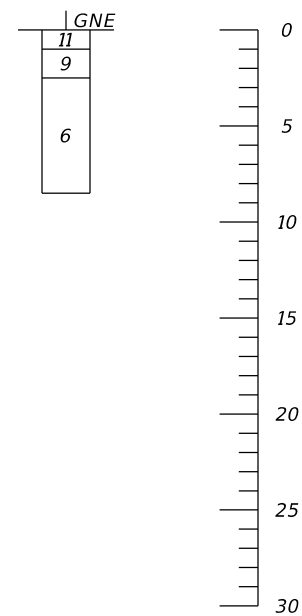
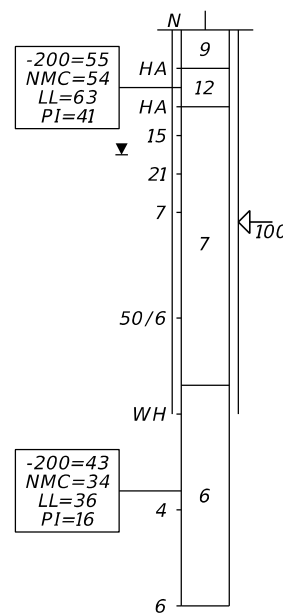
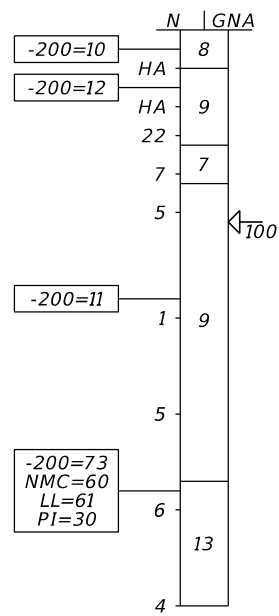
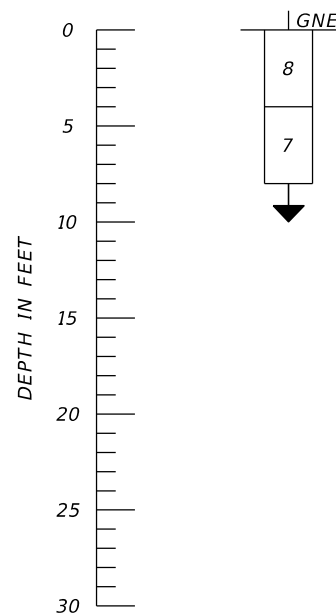
BOR # TP-4
 STA. 307+99
 REF. Q CONST. FPC
 OFF. 15' RT.
 DATE 2/2/2023

BOR # HA-4
 STA. 308+00
 REF. Q CONST. FPC
 OFF. 4' LT.
 DATE 3/9/2023

BOR # SPT-1
 STA. 308+34
 REF. Q CONST. FPC
 OFF. 219' RT.
 DATE 3/9/2023
 DRILLER M. ATKINSON
 HAMMER AUTOMATIC
 D-25

BOR # SPT-3
 STA. 308+54
 REF. Q CONST. FPC
 OFF. 90' LT.
 DATE 3/9/2023
 DRILLER M. ATKINSON
 HAMMER AUTOMATIC
 D-25

BOR # HA-8
 STA. 308+58
 REF. Q CONST. FPC
 OFF. 208' LT.
 DATE 3/9/2023



LEGEND

- 1. GRAY TO BROWN SAND TO SAND WITH SILT (A-3)
 - 2. GRAY TO LIGHT BROWN SILTY SAND (A-2-4)
 - 3. DARK GRAY TO DARK BROWN SAND TO SAND WITH SILT WITH TRACE ORGANICS (A-3)
 - 4. DARK GRAY TO DARK BROWN ORGANIC SAND TO SAND WITH SILT (A-8)
 - 5. GRAY TO BROWN CLAYEY SAND (A-2-6)
 - 6. GRAY TO BROWN TO GREEN CLAY TO SILT (A-4/A-6/A-7-5)
 - 7. DEBRIS: SOIL MIXED WITH VARIABLE AMOUNTS OF CONCRETE, BRICK, METAL, PLASTIC, ASPHALT, AND/OR WOOD
 - 8. GRAY TO BROWN SAND TO SAND WITH SILT (DISTURBED) (A-3)
 - 9. GRAY TO LIGHT BROWN SILTY SAND (DISTURBED) (A-2-4)
 - 10. DARK GRAY TO DARK BROWN ORGANIC SILTY SAND (DISTURBED) (A-8)
 - 11. GRAY TO BROWN CLAYEY SAND (DISTURBED) (A-2-6)
 - 12. GRAY TO BROWN TO GREEN CLAY (DISTURBED) (A-7-5/A-7-6)
 - 13. GRAY TO BROWN TO GREEN CLAY (A-7-6)
 - 14. WEATHERED LIMESTONE TO CALCAREOUS CLAY
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW.
 - N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
 - 50/4 NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION
 - HA HAND AUGERED TO VERIFY UTILITY CLEARANCE
 - WH SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER
 - 200 PERCENT PASSING #200 SIEVE
 - NMC NATURAL MOISTURE CONTENT (%)
 - LL LIQUID LIMIT (%)
 - PI PLASTICITY INDEX (%)
 - OC ORGANIC CONTENT (%)
 - NP NON-PLASTIC
 - NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988
 - ⊕ APPROXIMATE AUGER BORING LOCATION
 - ⊙ APPROXIMATE SPT BORING LOCATION
 - APPROXIMATE TEST PIT LOCATION
 - ∇ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
 - ▼ GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
 - GNA GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID AT A DEPTH OF 10 FEET.
 - GNE GROUNDWATER NOT ENCOUNTERED
 - R HAND AUGER OR MECHANICAL BACK-HOE REFUSAL ON DEBRIS MATERIALS PREVENTING DEEPER EXPLORATION
 - ⬇ TEST PIT TERMINATED IN DEBRIS MATERIAL; DEBRIS CONTINUES DEEPER
 - ◀100 LOSS OF CIRCULATION OF DRILLING FLUID (%)
 - || CASING

NOTES:
 1. THE LOCATIONS OF THE BORINGS WERE RECORDED IN THE FIELD BY TIERRA, INC. USING GARMIN ETREX HANDHELD GPS EQUIPMENT WITH A REPORTED ACCURACY OF ± 10 FEET. THE GPS COORDINATES RECORDED BY TIERRA WERE UTILIZED IN CONJUNCTION WITH DESIGN FILES TO OBTAIN STATION AND OFFSET. THEREFORE, THE BORING LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. BORINGS DENOTED BY AN ASTERISK (*) WERE LOCATED BY THE PROJECT SURVEYOR.
 2. STRATA 8 THROUGH 11 THROUGHOUT THE FPC AREA ARE NOT IN THEIR NATURAL STATE AND LIKELY WERE DEPOSITED WHEN THE DEBRIS MATERIALS WERE BURIED.

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

FPC SITE

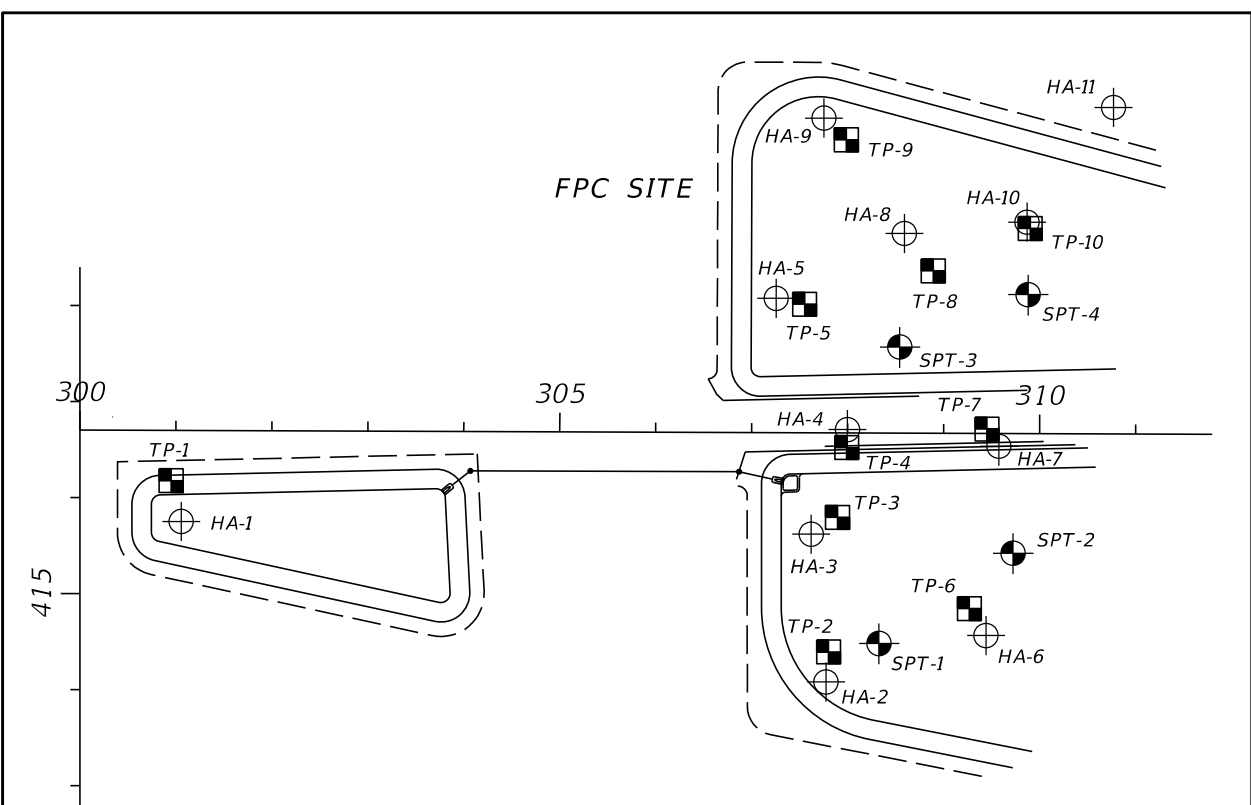
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	BMG	06/2023
			DRAWN BY	BMG	PROJECT NO.
			CHECKED BY	MEN	6107860

MARC E. NOVAK, Ph.D., P.E.
 P.E. LICENSE NUMBER 67431
 TIERRA, INC.
 7351 TEMPLE TERRACE HIGHWAY
 TAMPA, FLORIDA 33637

PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208

POND SOIL SURVEY (10)

SHEET NO.
GR-11

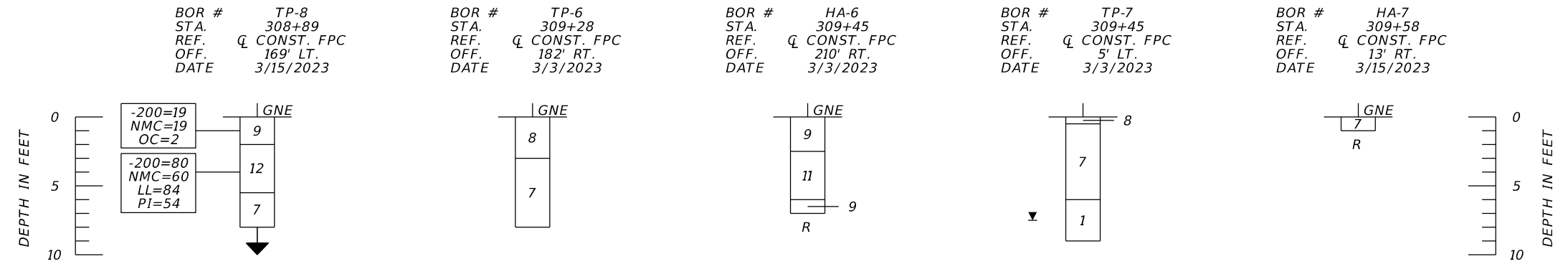


BORING LOCATION PLAN

LEGEND

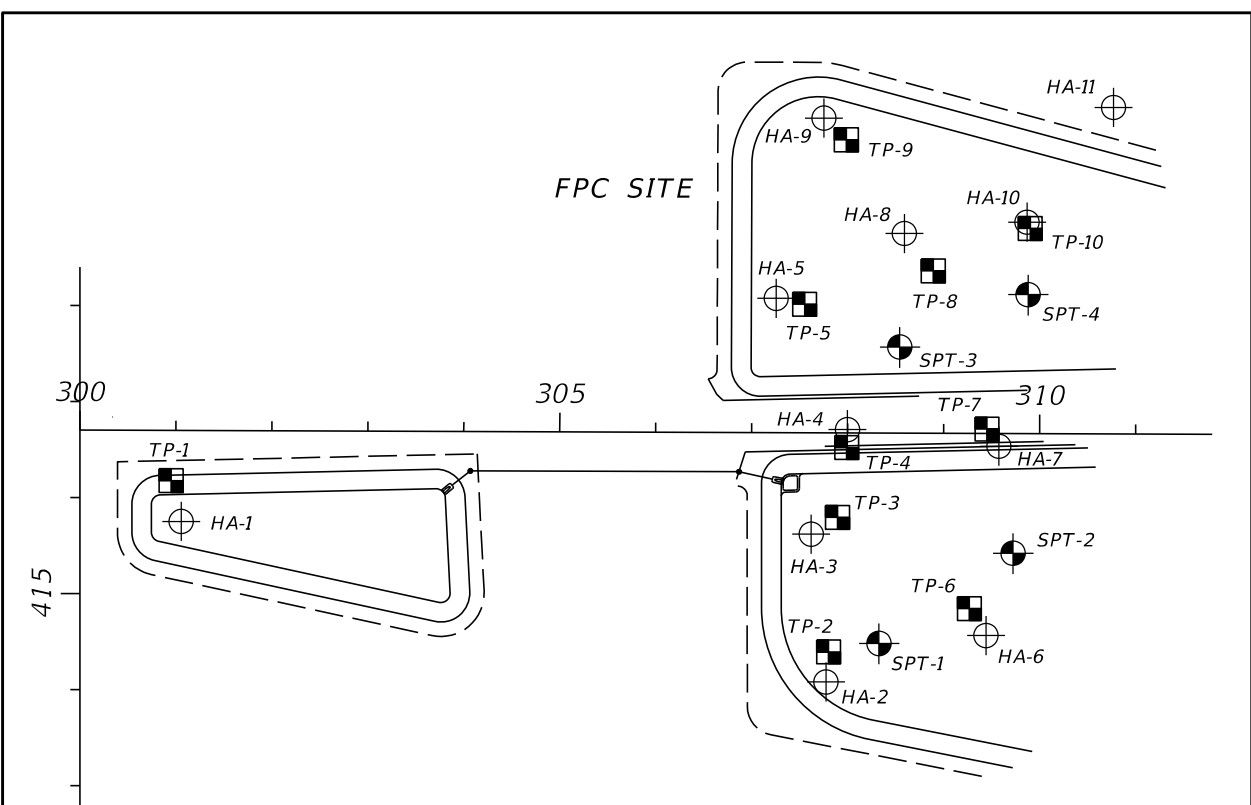
- | | | |
|--|---------|--|
| 1. GRAY TO BROWN SAND TO SAND WITH SILT (A-3) | A-3 | AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW. |
| 2. GRAY TO LIGHT BROWN SILTY SAND (A-2-4) | N | NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED). |
| 3. DARK GRAY TO DARK BROWN SAND TO SAND WITH SILT WITH TRACE ORGANICS (A-3) | 50/4 | NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION |
| 4. DARK GRAY TO DARK BROWN ORGANIC SAND TO SAND WITH SILT (A-8) | HA | HAND AUGERED TO VERIFY UTILITY CLEARANCE |
| 5. GRAY TO BROWN CLAYEY SAND (A-2-6) | WH | SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER |
| 6. GRAY TO BROWN TO GREEN CLAY TO SILT (A-4/A-6/A-7-5) | -200 | PERCENT PASSING #200 SIEVE |
| 7. DEBRIS: SOIL MIXED WITH VARIABLE AMOUNTS OF CONCRETE, BRICK, METAL, PLASTIC, ASPHALT, AND/OR WOOD | NMC | NATURAL MOISTURE CONTENT (%) |
| | LL | LIQUID LIMIT (%) |
| | PI | PLASTICITY INDEX (%) |
| | OC | ORGANIC CONTENT (%) |
| | NP | NON-PLASTIC |
| 8. GRAY TO BROWN SAND TO SAND WITH SILT (DISTURBED) (A-3) | NAVD 88 | NORTH AMERICAN VERTICAL DATUM OF 1988 |
| 9. GRAY TO LIGHT BROWN SILTY SAND (DISTURBED) (A-2-4) | ⊕ | APPROXIMATE AUGER BORING LOCATION |
| 10. DARK GRAY TO DARK BROWN ORGANIC SILTY SAND (DISTURBED) (A-8) | ⊙ | APPROXIMATE SPT BORING LOCATION |
| 11. GRAY TO BROWN CLAYEY SAND (DISTURBED) (A-2-6) | ■ | APPROXIMATE TEST PIT LOCATION |
| 12. GRAY TO BROWN TO GREEN CLAY (DISTURBED) (A-7-5/A-7-6) | ∇ | ESTIMATED SEASONAL HIGH GROUNDWATER TABLE |
| 13. GRAY TO BROWN TO GREEN CLAY (A-7-6) | ▼ | GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS |
| 14. WEATHERED LIMESTONE TO CALCAREOUS CLAY | GNA | GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID AT A DEPTH OF 10 FEET. |
| | GNE | GROUNDWATER NOT ENCOUNTERED |
| | R | HAND AUGER OR MECHANICAL BACK-HOE REFUSAL ON DEBRIS MATERIALS PREVENTING DEEPER EXPLORATION |
| | ⬇ | TEST PIT TERMINATED IN DEBRIS MATERIAL; DEBRIS CONTINUES DEEPER |
| | ⬅100 | LOSS OF CIRCULATION OF DRILLING FLUID (%) |
| | | CASING |

- NOTES:**
1. THE LOCATIONS OF THE BORINGS WERE RECORDED IN THE FIELD BY TIERRA, INC. USING GARMIN ETREX HANDHELD GPS EQUIPMENT WITH A REPORTED ACCURACY OF ± 10 FEET. THE GPS COORDINATES RECORDED BY TIERRA WERE UTILIZED IN CONJUNCTION WITH DESIGN FILES TO OBTAIN STATION AND OFFSET. THEREFORE, THE BORING LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. BORINGS DENOTED BY AN ASTERISK (*) WERE LOCATED BY THE PROJECT SURVEYOR.
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	SAFETY HAMMER	AUTOMATIC HAMMER
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LOOSE	4 to 10	3 to 8
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DENSE	30 to 50	24 to 40
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FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

FPC SITE



- ### LEGEND
- | | | |
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| 5. GRAY TO BROWN CLAYEY SAND (A-2-6) | WH | SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER |
| 6. GRAY TO BROWN TO GREEN CLAY TO SILT (A-4/A-6/A-7-5) | -200 | PERCENT PASSING #200 SIEVE |
| 7. DEBRIS: SOIL MIXED WITH VARIABLE AMOUNTS OF CONCRETE, BRICK, METAL, PLASTIC, ASPHALT, AND/OR WOOD | NMC | NATURAL MOISTURE CONTENT (%) |
| 8. GRAY TO BROWN SAND TO SAND WITH SILT (DISTURBED) (A-3) | LL | LIQUID LIMIT (%) |
| 9. GRAY TO LIGHT BROWN SILTY SAND (DISTURBED) (A-2-4) | PI | PLASTICITY INDEX (%) |
| 10. DARK GRAY TO DARK BROWN ORGANIC SILTY SAND (DISTURBED) (A-8) | OC | ORGANIC CONTENT (%) |
| 11. GRAY TO BROWN CLAYEY SAND (DISTURBED) (A-2-6) | NP | NON-PLASTIC |
| 12. GRAY TO BROWN TO GREEN CLAY (DISTURBED) (A-7-5/A-7-6) | NAVD 88 | NORTH AMERICAN VERTICAL DATUM OF 1988 |
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| 14. WEATHERED LIMESTONE TO CALCAREOUS CLAY | ⊙ | APPROXIMATE SPT BORING LOCATION |
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| | ⬇ | TEST PIT TERMINATED IN DEBRIS MATERIAL; DEBRIS CONTINUES DEEPER |
| | ⬅100 | LOSS OF CIRCULATION OF DRILLING FLUID (%) |
| | | CASING |

BORING LOCATION PLAN

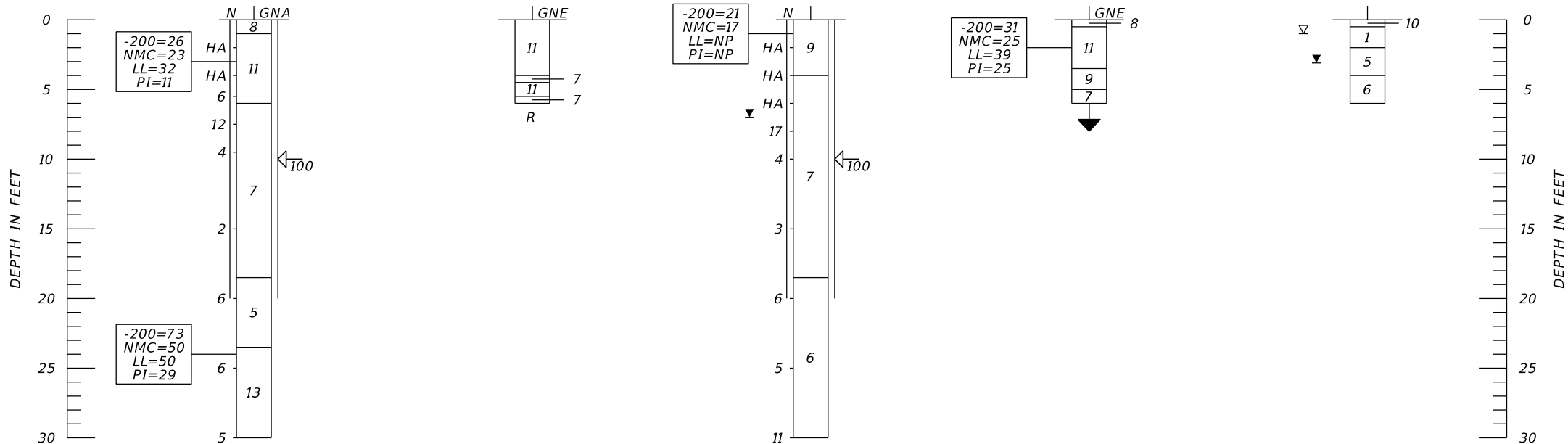
BOR # SPT-2
 STA. 309+73
 REF. Q CONST. FPC
 OFF. 125' RT.
 DATE 3/3/2023
 DRILLER M. ATKINSON
 HAMMER AUTOMATIC
 RIG D-25

BOR # HA-10
 STA. 309+86
 REF. Q CONST. FPC
 OFF. 220' LT.
 DATE 3/3/2023

BOR # SPT-4
 STA. 309+87
 REF. Q CONST. FPC
 OFF. 145' LT.
 DATE 3/15/2023
 DRILLER M. ATKINSON
 HAMMER AUTOMATIC
 RIG D-25

BOR # TP-10
 STA. 309+89
 REF. Q CONST. FPC
 OFF. 214' LT.
 DATE 3/15/2023

BOR # HA-11
 STA. 310+76
 REF. Q CONST. FPC
 OFF. 340' LT.
 DATE 3/15/2023



NOTES:
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STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

FPC SITE

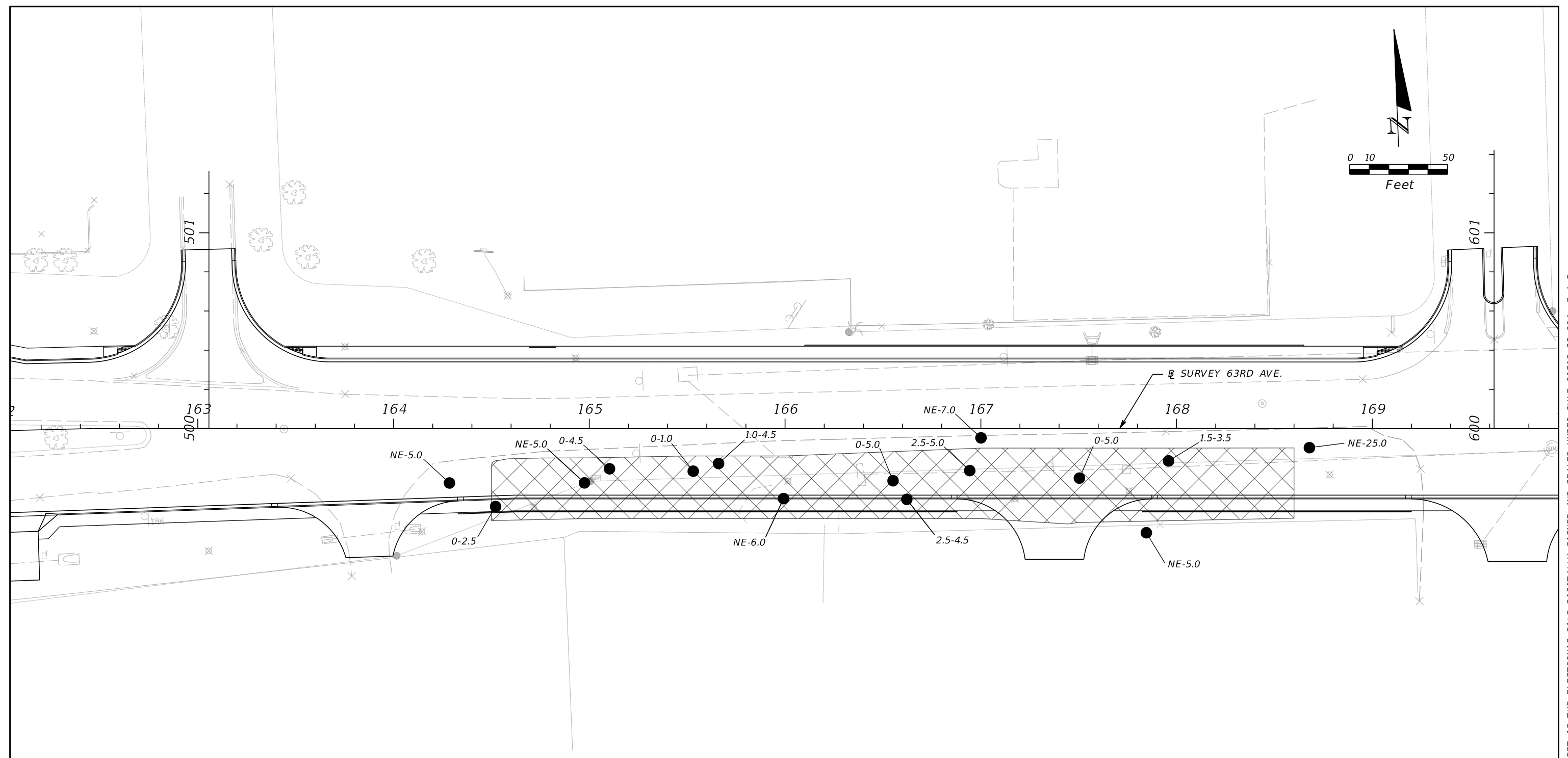
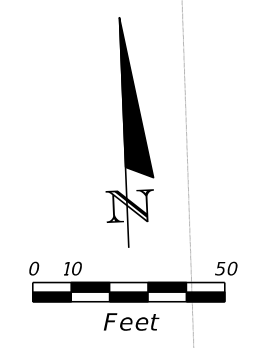
NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE
			DESIGNED BY	BMG	06/2023
			DRAWN BY	BMG	PROJECT NO.
			CHECKED BY	MEN	6107860

MARC E. NOVAK, Ph.D., P.E.
 P.E. LICENSE NUMBER 67431
 TIERRA, INC.
 7351 TEMPLE TERRACE HIGHWAY
 TAMPA, FLORIDA 33637


PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East
 Bradenton, FL 34208


POND SOIL SURVEY (12)

SHEET NO.
 GR-13

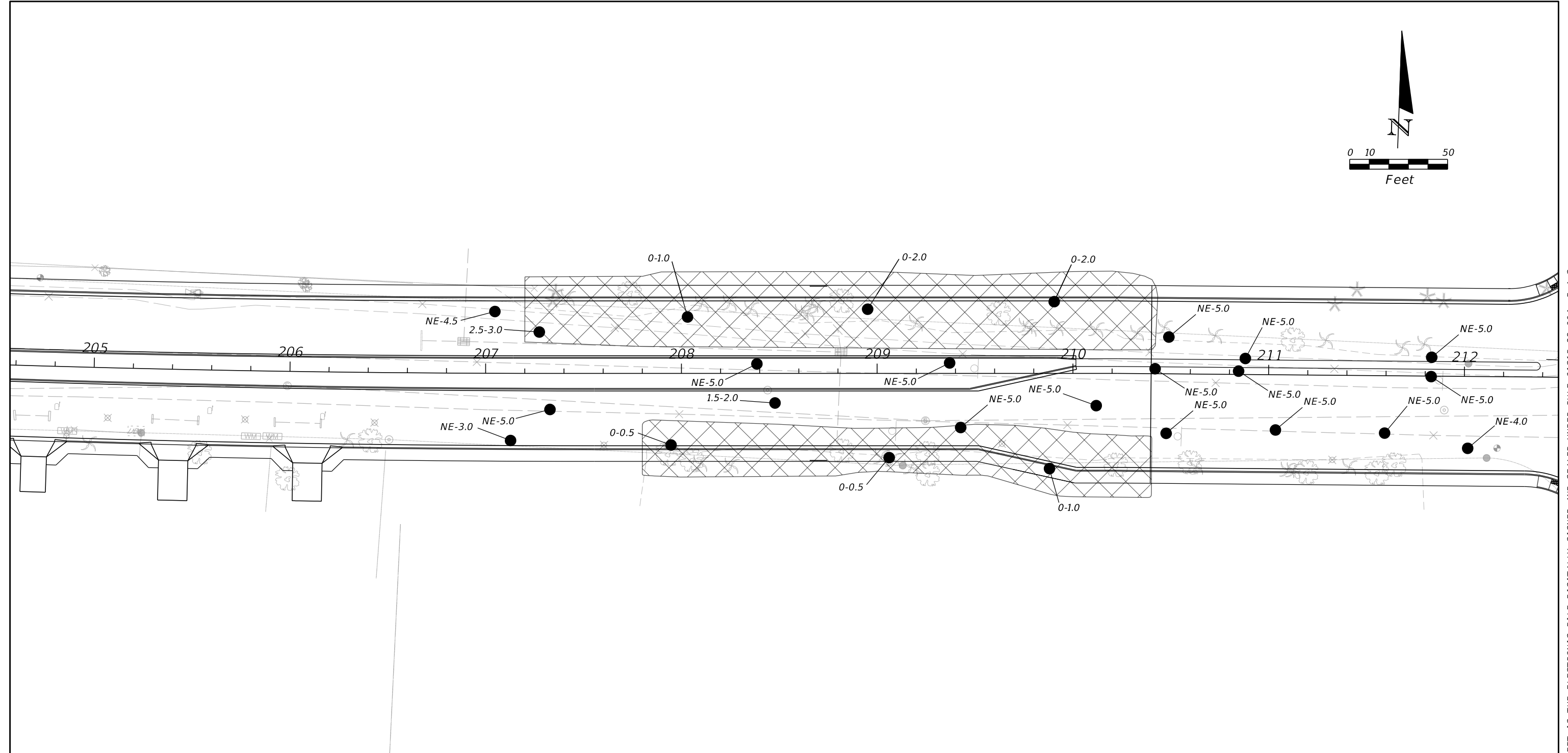
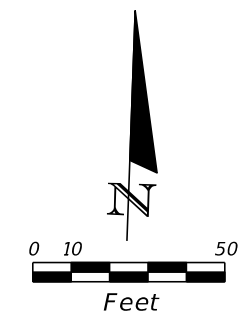


LEGEND

- 1.0-4.5 ● ORGANICS ENCOUNTERED 1.0 TO 4.5 FEET BELOW EXISTING GRADE
- NE-2.5 ● ORGANICS NOT ENCOUNTERED TO 2.5 FEET BELOW EXISTING GRADE
-  APPROXIMATE AREA OF MUCK REMOVAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	MARC E. NOVAK, Ph.D., P.E. P.E. LICENSE NUMBER 67431 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	MUCK DELINEATION SHEET (1)	SHEET NO.		
			DESIGNED BY	BJS	07/2023						
			DRAWN BY	BJS	PROJECT NO.						
			CHECKED BY	MEN	6107860						GR-14

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



LEGEND

- 1.0-4.5 ● ORGANICS ENCOUNTERED 1.0 TO 4.5 FEET BELOW EXISTING GRADE
- NE-2.5 ● ORGANICS NOT ENCOUNTERED TO 2.5 FEET BELOW EXISTING GRADE
- APPROXIMATE AREA OF MUCK REMOVAL

NUMBER	DESCRIPTION	DATE	SCALE	AS NOTED	DATE	MARC E. NOVAK, Ph.D., P.E. P.E. LICENSE NUMBER 67431 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East Bradenton, FL 34208	MUCK DELINEATION SHEET (2)	SHEET NO.
			DESIGNED BY	BJS	07/2023				
			DRAWN BY	BJS	PROJECT NO.				
			CHECKED BY	MEN	6107860				
									GR-15

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