

MONROE COUNTY
DEPARTMENT OF ENGINEERING

CONTRACT PLANS

SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT
(BIG PINE KEY)

VOLUME B

SANDS SUBDIVISION - BIG PINE KEY



LOCATION OF PROJECT

Reinefeld, Werner (reinefeldw)
State of Florida, Professional Engineer, License No. 63042. This item
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any electronic copies.
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PROJECT LENGTH IS BASED ON C CONSTRUCTION

LENGTH OF PROJECT

	LINEAR FEET	MILES
ROADWAY	1705.07	0.323
BRIDGES	0	0
NET LENGTH OF PROJECT	1705.07	0.323
EXCEPTIONS	0	0
GROSS LENGTH OF PROJECT	1705.07	0.323

MONROE COUNTY PROJECT MANAGER: DEBRA LONDON



LOCATION OF PROJECT

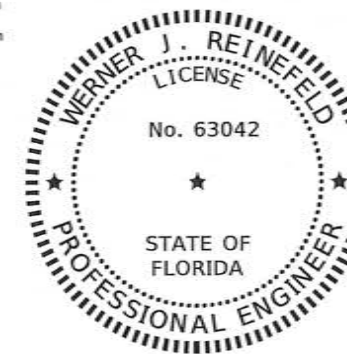
PLANS PREPARED BY:



WSP USA
7650 CORPORATE CENTER DRIVE, SUITE 300
MIAMI, FLORIDA 33126
C.A. # 01462

NOTE: SCALE SHOWN ON DRAWINGS CORRESPONDS
TO PLOT SIZE 11"x17". IF DRAWINGS ARE PLOTTED
ON OTHER SIZE SHEET, ENGINEER OF RECORD DOES
NOT WARRANT ACCURACY OF DRAWING SCALE.

BID SET



ROADWAY PLANS
ENGINEER OF RECORD: WERNER REINEFELD, P.E.
P.E. NO.: 63042

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FISCAL YEAR	SHEET NO.
21	G-1B

INDEX OF SHEETS - VOLUME B

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S-6B - S-12B	GENERATOR AND ELECTRICAL PLATFORM STRUCTURAL SHEETS

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY 2021-22 Standard plans for Road and Bridge
Construction and applicable Interim Revisions (Irs).

Standard Plans for Road Construction and associated Irs are available at the following website:
<https://www.fdot.gov/design/standardplans>

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, July, 2021 Standard Specifications for Road and Bridge
Construction at the following website:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

MONROE COUNTY BOARD OF COMMISSIONERS:

EDDIE MARTINEZ	DISTRICT 3
MICHELLE COLDIRON	DISTRICT 2
MAYOR PRO TEM CRAIG GATES	DISTRICT 1
MAYOR DAVID RICE	DISTRICT 4
HOLLY MERRILL RASCHEIN	DISTRICT 5

MONROE COUNTY
SEA LEVEL RISE ROADWAY AND
DRAINAGE PILOT PROJECT - BIG PINE KEY
SUMMARY OF PAY ITEMS

PAY ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
101-1	MOBILIZATION	LS	1.00
102-1	MAINTENANCE OF TRAFFIC	LS	1.00
104-10-3	SEDIMENT BARRIER (STRAIN WATTLE 9')	LF	3000
104-18	INLET PROTECTION	EA	30.00
110-1-1	CLEARING & GRUBBING	AC	1.18
120-1A	REGULAR EXCAVATION, ROADWAY	CY	1630.00
120-6	EMBANKMENT	CY	5.00
160-4	STABILIZATION TYPE B	SY	3526.92
285-704	OPTIONAL BASE GROUP 04 - ASPHALT BASE (TYPE B-12.5)	SY	4232.3
286-1	TURNOUT CONSTRUCTION (ASPHALT)	SY	526.76
286-1	TURNOUT CONSTRUCTION (GRAVEL)	SY	439.2
327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	SY	4519.80
334-1-11	SUPERPAVE ASPHALTIC CONC, TRAFFIC A	TN	714.14
530-74	BEDDING STONE (NO. 57 STONE)	TN	266.37
570-1-2	PERFORMANCE TURF, SOD	SY	2777.11
700-1-60	SINGLE POST SIGN, RELOCATE	AS	14.00
706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA	72.00
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID 24"	LF	194.06
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.06
711-16-231	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SKIP, 6"	GM	0.25
0581-1-3	RELOCATE TREES AND PALMS, MULTI-TRUNK OR CLUSTERING	EA	1.0
10-50-16-003	UTILITY PIPE, REMOVE & DISPOSE, 5-7.9"	LF	420.00
1050-51-206	6" WM DI PIPE FURNISH & INSTALL	LF	420.00
425-5	ADJUST MANHOLE (UTILITIES) (TOP ADJUSTMENT)	SY	2.00
120-1B	REGULAR EXCAVATION, DRAINAGE STRUCTURES, PIPING AND PUMP STATION	CY	6870.68
448-73	PUMP STATION DRAINAGE		
	FURNISH AND INSTALL PUMPS: FL	EA	4.00
	FURNISH AND INSTALL CONTECH TREATMENT UNIT: MODEL CDS5678	EA	1.00
	ELECTRICAL (INCL VFD, ELECT SERVICE, ETC.)	LS	1.00
125-3	SELECT BEDDING MATERIAL	CY	395.00
1050-51-224	UTILITY PIPE-DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 24"	LF	578.00
1050-51-230	UTILITY PIPE-DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 36"	LF	456.00
1050-51-230-48	UTILITY PIPE-DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 48"	LF	477.00
1080-29-124	UTILITY FIXTURE, MECHANICAL JOINT RESTRAINT, FURNISH & INSTALL, 24"	EA	30.00
1080-11-509	UTILITY FIXTURES, F&I, 20-49.9", MECHANICAL JOINT RESTRAINT	EA	18.00
1055-51-124	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH AND INSTALL ELBOW, 24"	EA	14.00
1055-51-136	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH AND INSTALL ELBOW, 36"	EA	4.00
1055-51-148	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH AND INSTALL ELBOW, 48"	EA	5.00
1055-11-425	UTILITY FITTING, F&I, DI/CI, TEE, 20-49.9"	EA	12.00
1055-51-524	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL, CAP/PLUG, 24"	EA	1.00
1055-11-435	UTILITY FITTINGS, F&I, DI/CI, REDUCER, 20 - 49.9"	EA	3.00
1080-24-124	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 24" FOR GATE AND SWING VALVES	EA	20.00

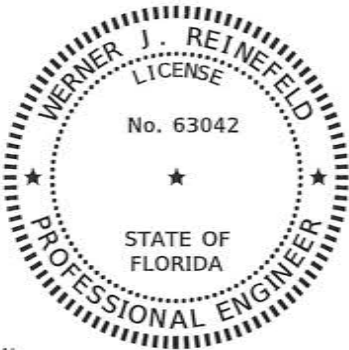
PAY ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
1080-24-102	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 2"	EA	2.00
1050-16-002	UTILITY PIPE, REMOVE & DISPOSE, 2-4.9"	LF	300.00
425-15-41	INLETS, DT BOT, TYPE D <10'	EA	34.00
425-15-42	INLETS, DT BOT, TYPE D >10'	EA	4.00
425-2-71	MANHOLES, J-7 <10'	EA	4.00
425-2-72	MANHOLES, J-7 >10'	EA	4.00
430-173-115	PIPE CULVERT, OPTIONAL MATERIAL ROUND, 15" SD	LF	30.00
430-173-118	PIPE CULVERT, OPTIONAL MATERIAL ROUND, 18" SD	LF	832.00
430-173-124	PIPE CULVERT, OPTIONAL MATERIAL ROUND, 24" SD	LF	1426.00
430-173-126	PIPE CULVERT, OPTIONAL MATERIAL ROUND, 36" SD	LF	151.00
	FURNISH AND INSTALL INJECTION WELLS AND ANCILLARY EQUIPMENT (EXCEPT GATE VALVES)	LS	12.00
400-4-25	SUPPORT OF EXCAVATION-COFFERDAM	LS	1.00
400-4-25	CONCRETE-PUMP STATION	CY	269.40
415-1-6	MISCELLANEOUS STEEL-PUMP STATION	LB	80990.52
580-1-1	LANDSCAPE COMPLETE - SMALL PLANTS	EA	88.00
580-1-2	LANDSCAPE COMPLETE - LARGE PLANTS	EA	20.00

Reinefeld, Werner (reinefeldw)
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PAY ITEMS NOTES:

1. PAY ITEM MEASUREMENTS ARE PER FDOT
STANDARD SPECIFICATIONS.
 2. 286-1: INCLUDES COST OF
439.20 SY GRAVEL DRIVEWAYS
43.78 SY ASPHALT DRIVEWAYS
 3. 448-73: INCLUDES STRUCTURAL, ELECTRICAL
AND ANCILLARY EQUIPMENT
- * REFER TO DETAIL ON SHEET PS-8A

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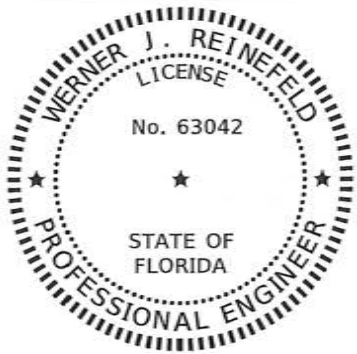


REVISIONS				WERNER REINEFELD, P.E. P.E. LICENSE NUMBER 63042 WSP USA, 7650 CORPORATE CENTER DRIVE, SUITE 300, MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 01462			SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT SANDS SUBDIVISION - BIG PINE KEY MONROE COUNTY - DEPARTMENT OF ENGINEERING	SHEET NO. SQ-1B
DATE	DESCRIPTION	DATE	DESCRIPTION					
							SUMMARY OF PAY ITEMS	

SUMMARY OF DRAINAGE STRUCTURES

STR. NO.	STATION	OFFSET (FT)	SIDE	DESCRIPTION	RIM	NORTHING	EASTING	BOT.	INVERT BACK	INVERT AHEAD	INVERT LEFT	INVERT RIGHT
IW-1	10+10.40	18.63	R	Injection Well	2.63	122961.58	542013.44	-6.50				
IW-2	10+85.97	37.44	L	Injection Well	2.93	123038.08	541958.63	-5.50				
IW-3	12+31.09	18.41	R	Injection Well	2.24	123182.25	542016.90	-7.00				
IW-4	13+22.59	50.74	L	Injection Well	2.42	123274.89	541949.28	-5.00				
IW-5	14+09.25	18.58	R	Injection Well	1.31	123360.38	542020.03	-7.00				
IW-6	15+09.74	18.58	R	Injection Well	1.09	123460.86	542021.71	-7.80				
IW-7	16+20.52	15.41	L	Injection Well	1.11	123572.20	541988.57	-7.00				
IW-8	17+41.67	15.29	L	Injection Well	1.10	123693.34	541990.71	-7.00				
IW-9	18+98.25	16.74	L	Injection Well	0.93	123849.92	541991.88	-7.00				
IW-10	20+00.50	14.31	L	Injection Well	1.23	123952.11	541996.01	-6.00				
IW-11	21+62.42	14.23	L	Injection Well	1.16	124114.01	541998.78	-6.00				
IW-12	23+18.63	14.27	L	Injection Well	0.89	124270.20	542001.35	-10.25				
S-01	9+77.47	49.73	R	Manhole	1.08	122928.14	542043.99	-8.20	-6.20 -6.20			
S-02	9+77.54	18.28	R	Manhole	2.60	122928.74	542012.54	-8.20	-6.19	-6.19		
S-03	9+75.85	14.84	L	Manhole	2.60	122927.60	541979.40	-8.20	-6.18	-6.18		
S-04	10+69.87	13.50	L	Inlet	2.40	123021.58	541982.30	-7.10	-3.00 -6.15	-6.15		
S-05	10+80.34	20.12	R	Inlet	2.40	123031.50	542016.09	-4.90		-2.90		
S-06	12+06.12	15.58	L	Inlet	2.20	123157.85	541982.50	-7.30	-3.20 -6.10	-6.15		
S-07	12+10.70	17.13	R	Inlet	2.20	123161.89	542015.28	-5.10		-3.10		
S-08	13+04.62	15.58	L	Inlet	2.00	123256.33	541984.14	-7.50	-6.00 -3.40	-6.10		
S-09	13+05.28	16.68	R	Inlet	0.00	123256.46	542016.41	-5.30		-3.30		
S-10	13+68.71	15.58	L	Inlet	0.00	123320.42	541985.21	-8.10	-6.10	-6.00		
S-11	14+39.91	15.58	L	Inlet	1.30	123391.61	541986.40	-8.10	-4.80 -6.00	-6.10		
S-12	14+39.87	16.64	R	Inlet	1.40	123391.03	542018.61	-6.70		-4.70		
S-13	15+42.03	15.58	L	Inlet	1.35	123493.71	541988.10	-8.00	-5.95	-6.00		
S-14	15+42.00	15.46	R	Inlet	1.00	123493.17	542019.13	-8.50	-6.50	-5.90		
S-15	16+02.58	16.80	R	Conflict Structure	4.12	123553.73	542020.48	???	-6.50	-6.50		
S-16	16+39.01	21.08	L	Inlet	0.65	123590.79	541983.21	-7.10		-5.10		
S-17	16+38.18	17.00	R	Inlet	1.00	123589.33	542021.27	-8.50	-5.20 -5.40	-6.50		
S-18	17+69.77	19.82	L	Inlet	0.95	123721.51	541986.65	-7.10		-5.10		
S-19	17+73.38	16.87	R	Inlet	1.05	123724.51	542023.40	-7.40	-5.20 -5.20	-5.40		
S-20	18+43.96	14.57	L	Inlet	1.10	123795.60	541993.13	-6.80		-4.80		
S-21	18+43.85	16.11	R	Inlet	1.00	123794.98	542023.81	-7.00	-4.90 -5.00	-5.00		
S-22	19+59.39	16.79	L	Inlet	1.05	123911.05	541992.84	-6.70		-4.70		

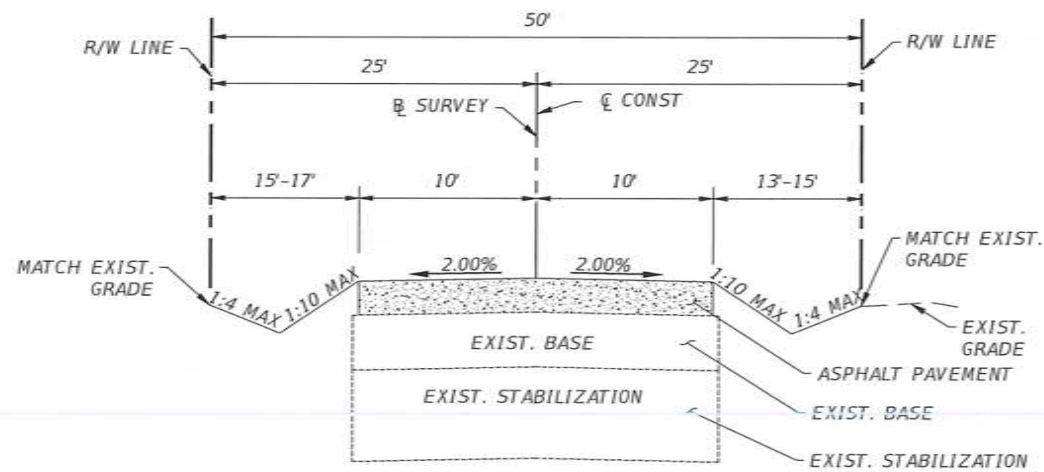
STR. NO.	STATION	OFFSET (FT)	SIDE	DESCRIPTION	RIM	NORTHING	EASTING	BOT.	INVERT BACK	INVERT AHEAD	INVERT LEFT	INVERT RIGHT
S-23	19+59.70	19.38	R	Inlet	0.95	123910.76	542029.01	-6.89	-4.80 -4.89	-4.89		
S-24	20+14.59	16.79	L	Inlet	1.00	123966.25	541993.76	-6.30		-4.30		
S-25	20+16.03	19.24	R	Inlet	1.00	123967.09	542029.81	-6.83	-4.40 -4.50	-4.83		
S-26	20+75.43	16.77	L	Inlet	1.20	124027.08	541994.80	-5.60		-3.60		
S-27	20+74.87	16.18	R	Inlet	1.20	124025.96	542027.73	-6.45	-3.70 -3.74	-4.45		
S-28	22+10.72	16.77	L	Inlet	1.00	124162.35	541997.05	-5.40		-3.40		
S-29	22+10.66	16.65	R	Inlet	1.10	124161.73	542030.46	-5.60	-3.50 -3.60	-3.60		
S-30	23+50.59	18.76	L	Inlet	0.75	124302.23	541997.39	-5.60	-3.60	-3.60		
S-31	23+50.87	17.80	R	Inlet	1.10	124301.90	542033.95	-5.60	-3.60	-3.60		
S-32	24+81.90	20.24	L	Inlet	0.90	124433.55	541998.10	-5.60		-3.60 -3.10		
S-33	24+74.68	18.62	R	Inlet	0.95	124425.68	542036.84	-5.10	-3.10			
S-34	60+34.02	14.11	L	Inlet	1.33	123772.48	542040.81	-6.00	-4.00	-4.00		
S-35	62+99.88	15.93	L	Inlet	0.50	123769.24	542306.66	-5.00		-3.00		
S-36	18+24.15	16.32	R	Manhole	1.60	123775.28	542023.69	-8.50	-4.50 -5.00	-5.20		
S-37	60+33.76	14.40	R	Inlet	0.95	123743.98	542040.00	-6.00		-3.00		
S-38	64+99.19	14.95	L	Inlet	1.10	123764.46	542505.90	-5.08				
S-39	64+99.26	15.78	R	Inlet	1.02	123733.74	542505.39	-5.50		-3.50		
S-40	64+99.23	1.65	R	Manhole	1.77	123747.87	542505.63	-6.00	-3.50	-3.50 -4.00 -4.00		
S-41	62+99.77	2.15	R	Manhole	1.56	123751.17	542306.20	-6.00	-4.00 -3.10	-4.00		
S-42	60+33.68	2.64	R	Manhole	1.88	123755.75	542040.15	-6.00	-3.50 -4.00	-4.00		
S-43	67+99.29	1.46	R	Manhole	1.87	123742.34	542805.64	-6.00	-4.00	-4.00 -3.50		
S-44	68+98.78	1.23	R	Manhole	1.85	123740.67	542905.12	-6.00	-4.00	-2.00		
S-45	68+99.05	14.39	L	Inlet	0.73	123756.29	542905.68	-4.00	-2.00			
S-46	67+99.37	15.53	R	Inlet	0.74	123728.27	542805.46	-5.50	-3.50			



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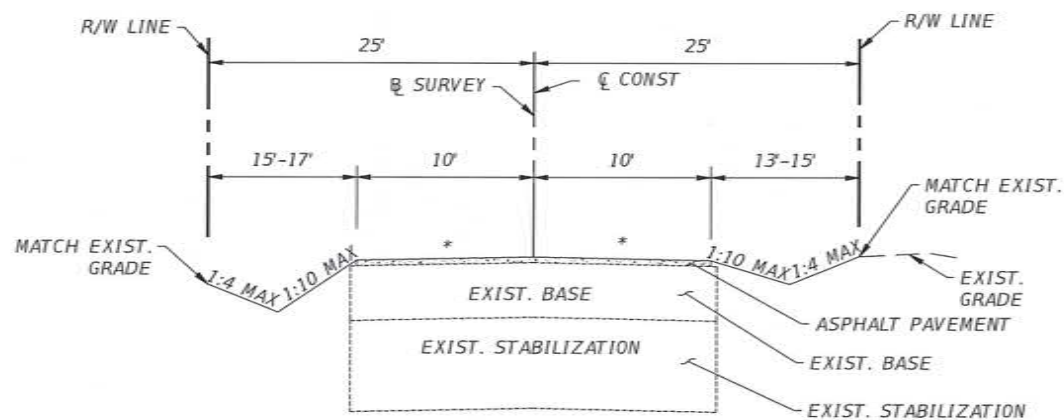
- NOTE:**
1. INLETS AND MANHOLES TO BE PER F.D.O.T. INDEX NO. 425-001 & 425-010.
 2. CONFLICT MANHOLE TO BE PER F.D.O.T. INDEX NO. 425-080.
 3. STRUCTURE S-15 HAS BEEN REMOVED FROM THE DRAWINGS

REVISIONS				WERNER REINEFELD, P.E. P.E. LICENSE NUMBER 63042 WSP USA, 7650 CORPORATE CENTER DRIVE SUITE 300, MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 01462	SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT TWIN LAKES SUBDIVISION - KEY LARGO MONROE COUNTY - DEPARTMENT OF ENGINEERING	SUMMARY OF DRAINAGE STRUCTURES	SHEET NO. SD-1B
DATE	DESCRIPTION	DATE	DESCRIPTION				



TYPICAL SECTION - FATHER TONY WAY
MILLING, RESURFACING & OVERBUILD, NTS

STA. 14+30.00 TO STA. 23+10



TYPICAL SECTION - FATHER TONY WAY
MILLING & RESURFACING, NTS

STA. 8+92.00 TO STA. 14+30.00

* MATCH EXISTING

NOTES:

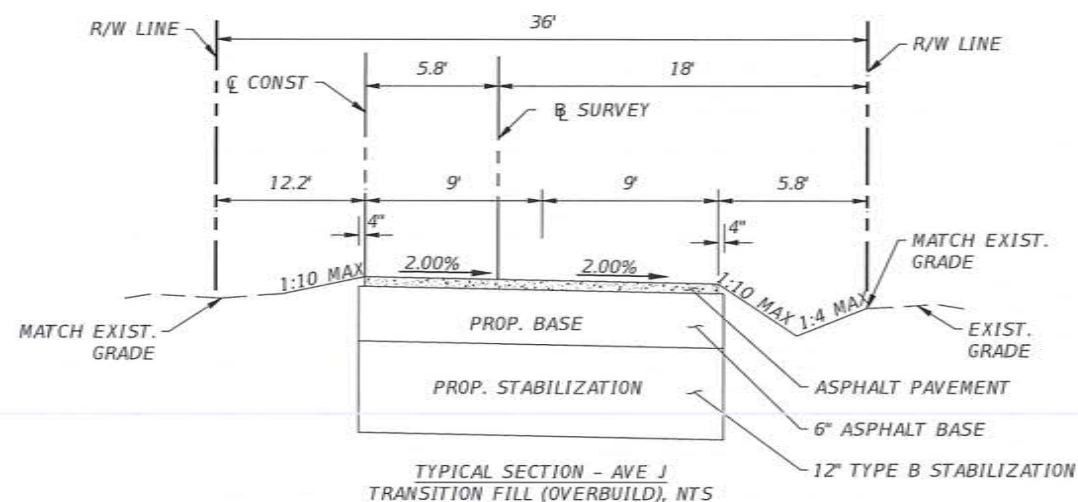
1. CONTRACTOR SHALL VERIFY EXISTING UNPAVED SHOULDER COMPOSITION PRIOR TO BIDDING. FINISH SHOULDER MATERIAL TO BE SOD OR NO 57 STONE.
2. ALL COUNTY ROW/SWALES TO BE 2 INCH 57 STONE UNLESS SOD EXISTS. IF SOD EXISTS, REPLACE WITH BAHIA.
3. IF SPECIALTY ROCK DRIVEWAY (FOR EXAMPLE RIVER ROCK OR GRANITE) EXIST TO THE ROAD BED, CONTRACTOR IS TO COORDINATE WITH OWNER AND THE COUNTY'S REPRESENTATIVE AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. SPECIALTY MATERIAL TO BE TEMPORARILY STOCKPILED IN OWNER'S PROPERTY AND REPLACED AFTER CONSTRUCTION IS COMPLETE.

MILLING, RESURFACING:

4. 1" MILLING
5. RESURFACE WITH 1" ASPHALT PAVEMENT (TYPE SP 9.5)
6. RE-GRADE SHOULDER TO SPECIFIED CROSS SLOPES.

OVERBUILD

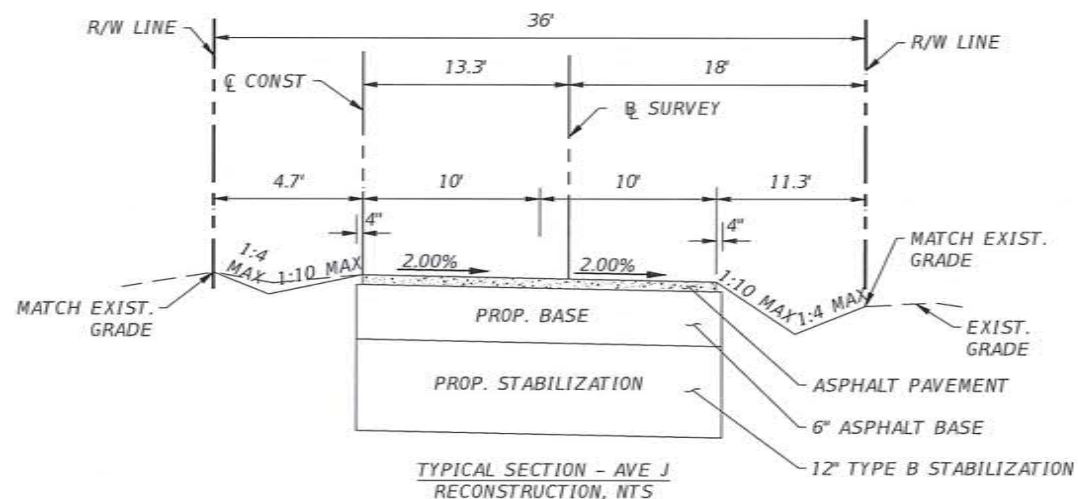
7. ASPHALT PAVEMENT (TYPE SP 9.5) - 3/8" - 2" MAX.



TYPICAL SECTION - AVE J
TRANSITION FILL (OVERBUILD), NTS

12" STABILIZED SUBGRADE LBR 40
6" ASPHALT BASE (TYPE B-12.5)
2" ASPHALT PAVEMENT (TYPE SP B-9.5) - TWO LIFTS

STA. 12+20.97 TO STA. 12+49.53



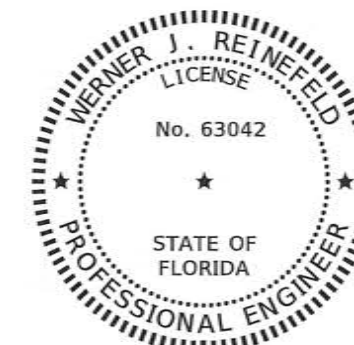
TYPICAL SECTION - AVE J
RECONSTRUCTION, NTS

12" STABILIZED SUBGRADE LBR 40
6" ASPHALT BASE (TYPE B-12.5)
2" ASPHALT PAVEMENT (TYPE SP B-9.5) - TWO LIFTS



STA. 9+72.10 TO STA. 12+20.97

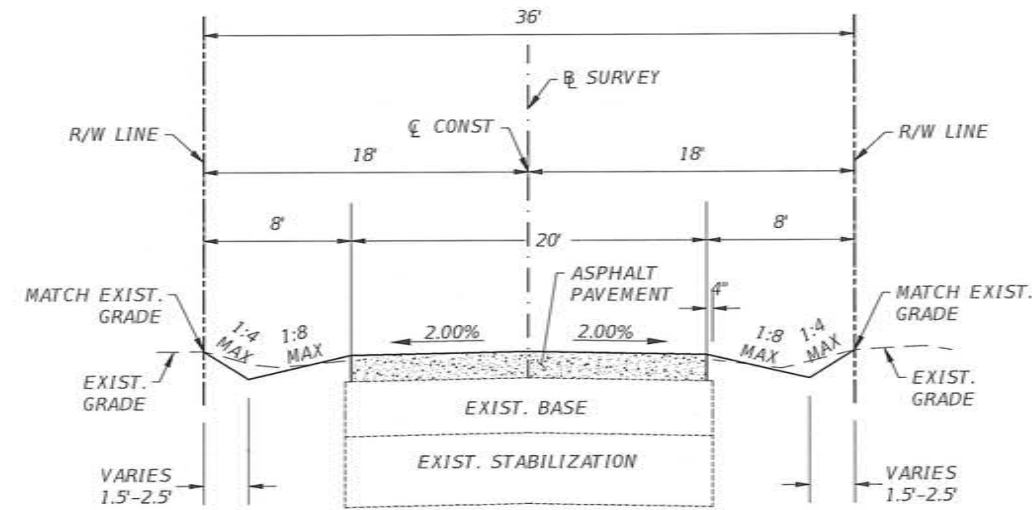
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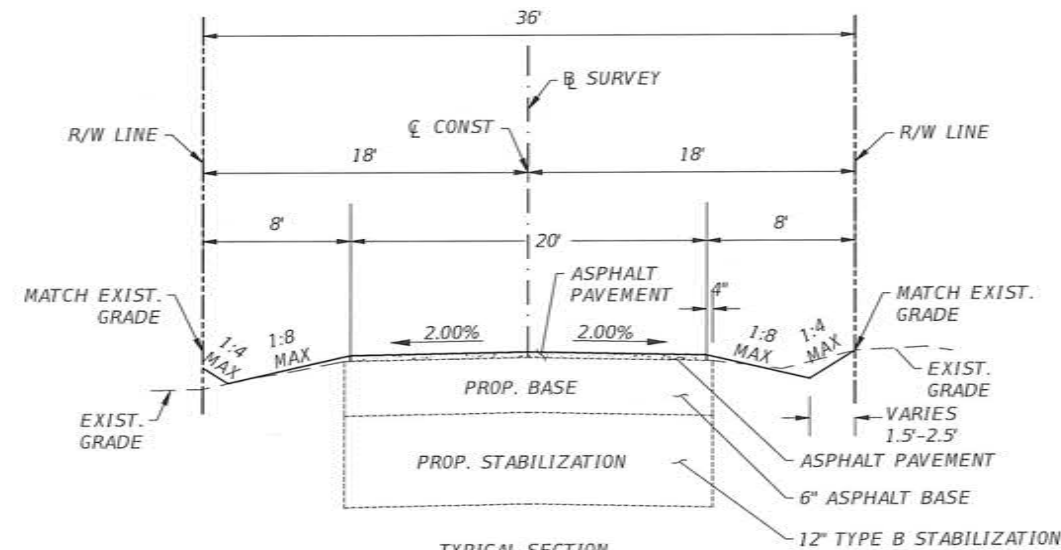


REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

 	SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT SANDS SUBDIVISION - BIG PINE KEY MONROE COUNTY - DEPARTMENT OF ENGINEERING		SHEET NO.
	TYPICAL SECTIONS		G-2B



TYPICAL SECTION - AVE G
MILLING, RESURFACING & OVERBUILD, NTS
STA. 59+40.97 TO STA. 60+35.00



TYPICAL SECTION
RECONSTRUCTION, NTS
12" STABILIZED SUBGRADE LBR 40
6" ASPHALT BASE (TYPE B-12.5)
2" ASPHALT PAVEMENT (TYPE SP-9.5) - TWO LIFTS
FATHER TONY STA. 23+10.00 TO STA. 25+25.42
AVE G STA. 60+35.00 TO STA. 70+70.23

NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING UNPAVED SHOULDER COMPOSITION PRIOR TO BIDDING. FINISH SHOULDER MATERIAL TO BE SOD OR NO 57 STONE.
2. ALL COUNTY ROW/SWALES TO BE 2 INCH 57 STONE UNLESS SOD EXISTS. IF SOD EXISTS, REPLACE WITH BAHIA.
3. IF SPECIALTY ROCK DRIVEWAY (FOR EXAMPLE RIVER ROCK OR GRANITE) EXIST TO THE ROAD BED, CONTRACTOR IS TO COORDINATE WITH OWNER AND THE COUNTY'S REPRESENTATIVE AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. SPECIALTY MATERIAL TO BE TEMPORARILY STOCKPILED IN OWNER'S PROPERTY AND REPLACED AFTER CONSTRUCTION IS COMPLETE.

MILLING, RESURFACING:

4. 1" MILLING
5. RESURFACE WITH 1" ASPHALT PAVEMENT (TYPE SP 9.5)
6. RE-GRADE SHOULDER TO SPECIFIED CROSS SLOPES.

OVERBUILD

7. ASPHALT PAVEMENT (TYPE SP 9.5) - $\frac{3}{8}$ " - 2" MAX.

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DATE	DESCRIPTION	DATE	DESCRIPTION						



Schotanus, Stacie

9/21/2022 6:25:13 PM

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SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT

SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT
BOARD COUNTY COMMISSIONERS:

HOLLY MERRILL RASCHKEIN, DISTRICT FIVE
MAYOR PRO TEM CRAIG GATES, DISTRICT ONE
EDDIE MARTINEZ, DISTRICT THREE
MAYOR DAVID RICE, DISTRICT FOUR
MICHELLE COLDIRON, DISTRICT TWO

PROJECT SPONSORED BY THE MONROE COUNTY BOARD OF COMMISSIONERS

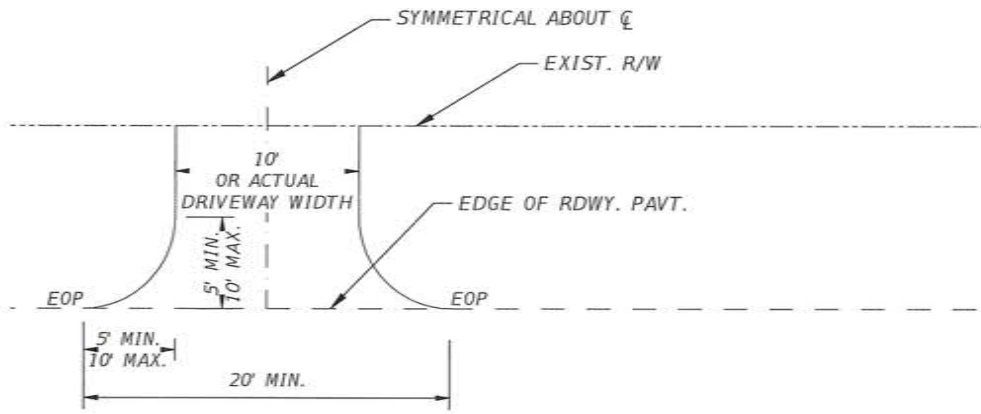
COUNTY ADMINISTRATOR:
ROMAN GASTES

CONTRACTOR:

PROJECT COST:

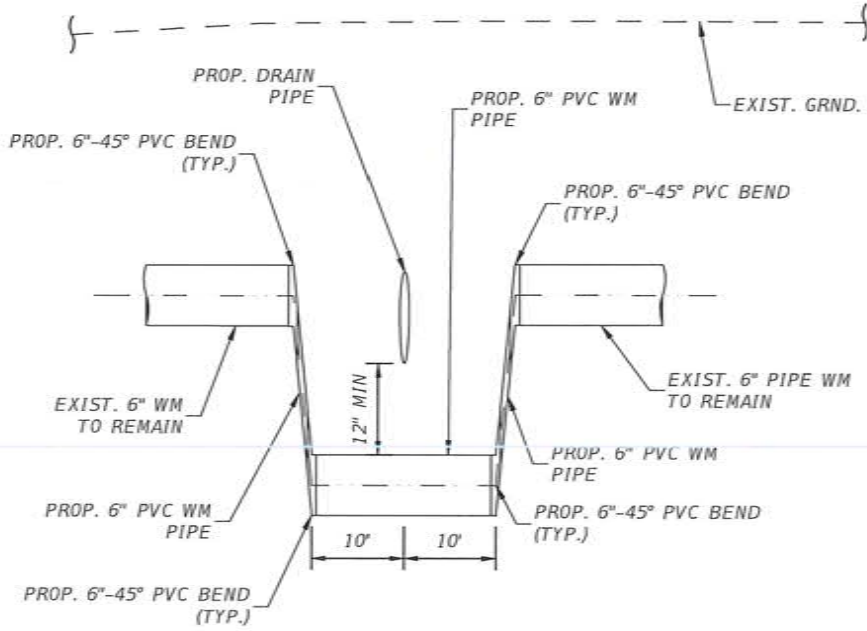
- NOTE:
1. BOLT SIGN TO FRAME THRU 4" X 4" MEMBERS WITH WASHERS AND NUT
 2. ALL WOOD FRAMING SHALL BE PRESSURE TREATED
 3. CONTRACTOR SHALL VERIFY AL ELECTED OFFICIALS AT TIME OF BID AND UPDATE SIGN AS NEEDED.
 4. CONTRACTOR TO REMOVE SIGN WITHIN 1 WEEK OF FINAL COMPLETION OF PROJECT.

PROJECT SIGN

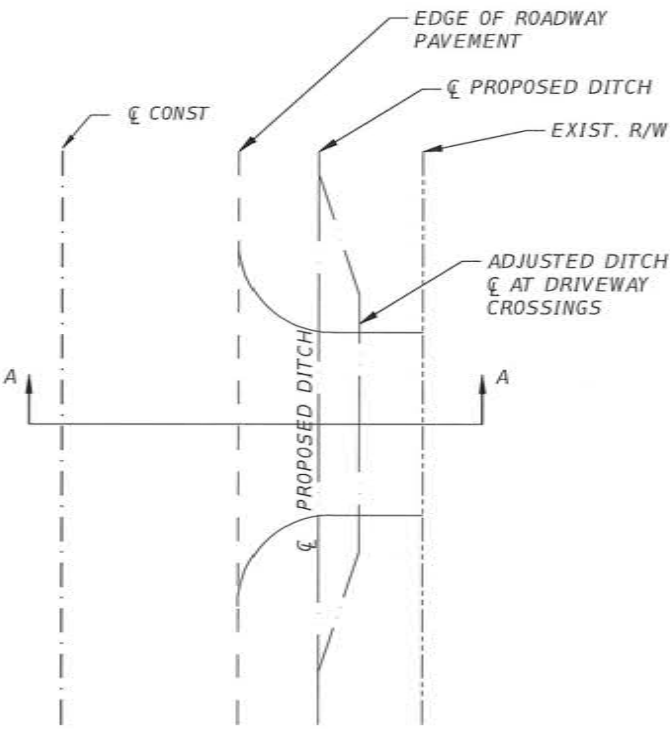


- NOTE:
1. MATCH EXISTING DRIVEWAY PAVEMENT COMPOSITION
 2. DRIVEWAY RECONSTRUCTION SHALL BE PAID UNDER PAY ITEM FOR TURNOUT CONSTRUCTION. NEW DRIVEWAY SHALL MATCH EXISTING DRIVEWAY PAVEMENT COMPOSITION. WHERE ASPHALT DRIVEWAY IS NEEDED, THE ASPHALT COURSE SHALL BE TRAFFIC LEVEL A (1"). CONCRETE DRIVEWAYS SHALL BE MINIMUM OF 6" THICK. FOR GRAVEL DRIVEWAYS, REFER TO DETAIL ON SHEET G-5B

DRIVEWAY TURNOUT DETAIL
N.T.S.

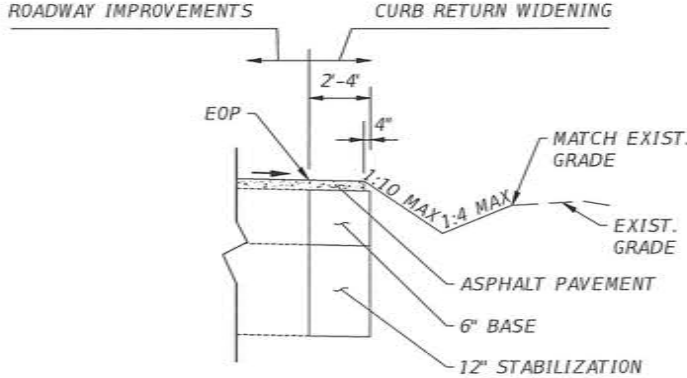


EXISTING 6" WATER MAIN, RELOCATION DETAIL
PROFILE VIEW
N.T.S.

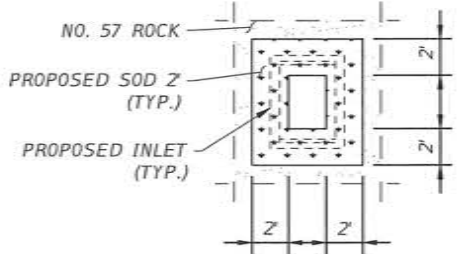


PLAN VIEW
N.T.S.

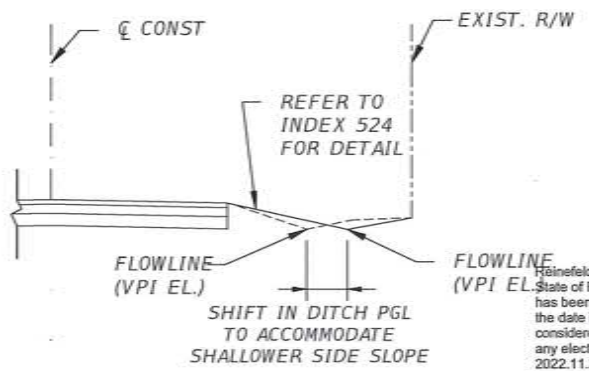
DRIVEWAY CROSSING DETAIL



CURB RETURN WIDENING DETAIL
N.T.S.



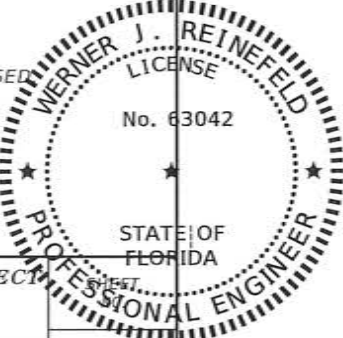
PROPOSED SOD APRON TYPICAL DETAIL
N.T.S.



SECTION A-A
N.T.S.

- NOTES:
1. SEE TYPICAL SECTIONS FOR PROPOSED DITCH GRADING
 2. IN AREAS WHERE A SPECIAL DITCH PROFILE IS NOT PROPOSED THE CONTRACTOR SHALL ESTABLISH THE DRIVEWAY VPI ELEVATION TO MAINTAIN DRAINAGE PATTERNS. This item has been electronically signed and sealed by Werner Reinefeld on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

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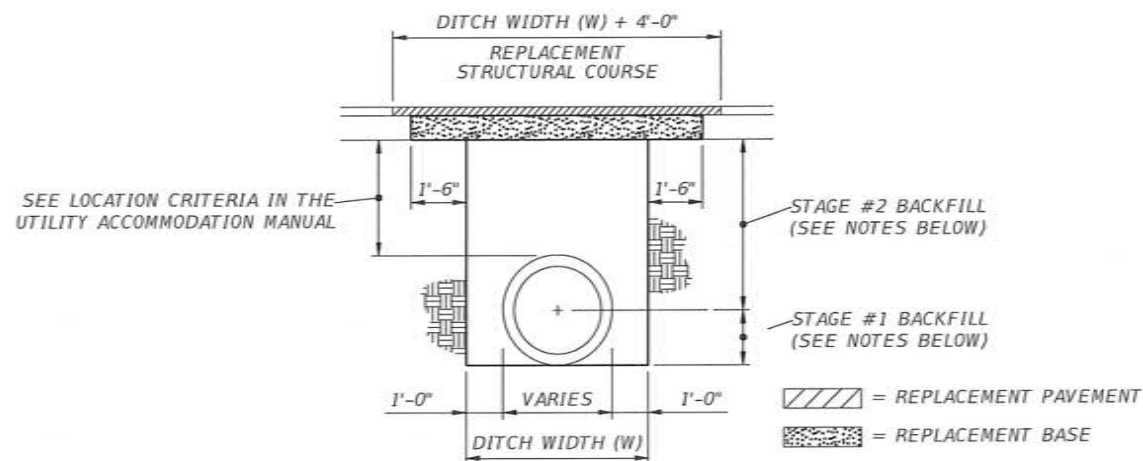
WERNER REINEFELD, P.E.
P.E. LICENSE NUMBER 63042
WSP USA, 7650 CORPORATE CENTER DRIVE,
SUITE 300, MIAMI, FLORIDA 33126
CERTIFICATE OF AUTHORIZATION 01462



SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT
SANDS SUBDIVISION - BIG PINE KEY
MONROE COUNTY - DEPARTMENT OF ENGINEERING

SPECIAL DETAILS

G-4B



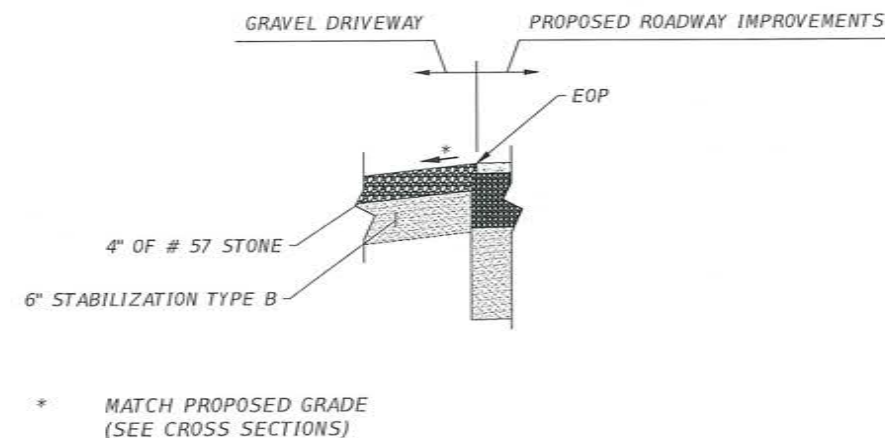
NOTES:
PAVEMENT REMOVAL AND REPLACEMENT

- PAVEMENT SHALL BE MECHANICALLY SAWED.
- THE REPLACEMENT ASPHALT SHALL MATCH THE EXISTING STRUCTURAL AND FRICTION COURSES FOR TYPE AND THICKNESS IN ACCORDANCE WITH CURRENT FDOT ASPHALT MIX SPECIFICATIONS.
- THE NEW BASE MATERIALS SHALL BE EITHER OF THE SAME TYPE AND COMPOSITION AS THE MATERIALS REMOVED (ASPHALT BASE MAY BE USED AT NO ADDITIONAL COST TO THE OWNER), OR OF EQUAL OR GREATER STRUCTURAL ADEQUACY (SEE FDOT STANDARD SPECIFICATION SECTION 285).

BACKFILL OPTION

- COMPACTED AND STABILIZED FILL
 - BACKFILL MATERIAL SHALL BE PLACED IN ACCORDANCE WITH SECTION 125 OF THE FDOT STANDARD SPECIFICATIONS.
 - IN STAGE #1, CONSTRUCT COMPACTED FILL BENEATH THE HAUNCHES OF THE PIPE, USING MECHANICAL TAMPS SUITABLE FOR THIS PURPOSE. THIS COMPACTION APPLIES TO THE MATERIAL PLACED BENEATH THE HAUNCHES OF THE PIPE AND ABOVE ANY BEDDING.
 - IN STAGE #2, CONSTRUCT COMPACTED FILL ALONG THE SIDES OF THE PIPE AND UP TO THE BOTTOM OF THE BASE, WITH THE UPPER 12" RECEIVING TYPE B STABILIZATION. IN LIEU OF TYPE B STABILIZATION, THE CONTRACTOR MAY CONSTRUCT USING OPTIONAL BASE GROUP 3 AT NO ADDITIONAL COST TO THE OWNER.

TRENCH RESTORATION DETAIL



GRAVEL DRIVEWAY TYPICAL DETAIL
N.T.S.

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REVISIONS				WERNER REINEFELD, P.E. P.E. LICENSE NUMBER 63042 WSP USA, 7650 CORPORATE CENTER DRIVE, SUITE 300, MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 01462	wsp	SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT SANDS SUBDIVISION - BIG PINE KEY MONROE COUNTY - DEPARTMENT OF ENGINEERING	SHEET NO. G-5B
DATE	DESCRIPTION	DATE	DESCRIPTION				
						SPECIAL DETAILS	

GENERAL NOTES

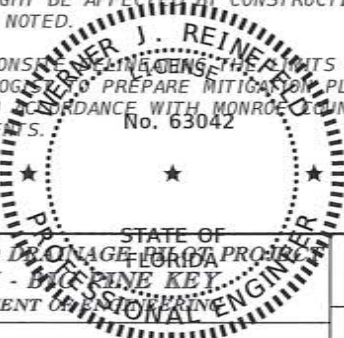
1. ALL CONSTRUCTION ASSOCIATED WITH THIS PROJECT MUST BE IN ACCORDANCE WITH APPLICABLE CODES & AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS ("FLORIDA GREEN BOOK"), FDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2022, AND SOUTH FLORIDA WATER MANAGEMENT DISTRICT STANDARDS. ANY DISCREPANCY MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF MONROE COUNTY'S REPRESENTATIVE & THE ENGINEER OF RECORD.
2. CONTRACTOR RESPONSIBLE FOR DETERMINING APPROPRIATE STAGING AREA PRIOR TO BIDDING. STAGING IN RESIDENTIAL NEIGHBORHOODS ON PRIVATE PROPERTY MAY REQUIRE A LENGTHY PERMIT PROCESS. USE FDOT R/W FOR STAGING IF AVAILABLE AND FDOT APPROVAL OBTAINED.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH PROJECT SITE & TO DETERMINE TOPOGRAPHIC OR UNDERGROUND FEATURES THAT WILL BE IMPACTED DUE TO THE PROPOSED METHOD OF CONSTRUCTION. CONTRACTOR SHOULD REPORT ANY DISCREPANCIES TO THE COUNTY PRIOR TO BIDDING. THE CONTRACTOR MUST INCLUDE IN THE BID PRICE, THE COST OF RELOCATING OR REPLACING IN KIND ANY FEATURES THAT WILL BE IMPACTED DUE TO THE PROPOSED METHOD OF CONSTRUCTION INCLUDING BUT NOT LIMITED TO EXISTING TREES, UTILITY BOXES, SIGNS, FIRE HYDRANTS, GUARDRAILS, UTILITY POLES, VALVES, ETC. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED BY THE COUNTY IN THE EVENT THE CONTRACTOR NEGLECTS TO ACCOUNT FOR THIS WORK IN THE BID PRICE.
4. THE CONTRACTOR SHALL CLEAR AND GRUB THE PROJECT SITE ONLY TO THE EXTENT NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS. ANY TREE REMOVAL, CANOPY TRIMMING, OR ROOT PRUNING NECESSARY FOR THE CONSTRUCTION SHALL BE PAID FOR UNDER "CLEARING AND GRUBBING", PAY ITEM 110-1-1.
5. THE CONTRACTOR SHALL SAWCUT, REMOVE AND DISPOSE OF EXISTING PAVEMENT BEYOND PROPOSED EDGE OF PAVED RETURNS (RADII) AND BEYOND PROPOSED EDGE OF DRIVEWAYS AT HIS EXPENSE.
6. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, & UTILITIES WHICH MAY OR MAY NOT BE SHOWN ON THE PLANS. ANY EXISTING STRUCTURE, PAVEMENT, TREE OR OTHER EXISTING UTILITY NOT SPECIFIED FOR REMOVAL WHICH IS DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY THE CONTRACTOR, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE COUNTY'S REPRESENTATIVE.
7. IF GRADE DIFFERENCE AT THE EDGE OF THE PROPOSED PAVEMENT OCCURS, CONTRACTOR SHALL REWORK EXISTING SHOULDER WITH LIMEROCK TO MATCH THE EDGE OF PROPOSED PAVEMENT GRADE.
8. ALL POT HOLES DEEPER THAN 2" SHALL BE CLEARED OF ALL LOOSE DEBRIS, TACK COATED, FILLED WITH ASPHALT AND ROLLED PRIOR TO LEVELING OVERLAY ASPHALT.
9. BASE MATERIAL EXPOSED MORE THAN 24 HOURS SHALL BE PRIMED AND COATED FOR PROTECTION.
10. PER USPS STANDARDS, THE CONTRACTOR MUST COORDINATE AND GET APPROVAL FROM RESIDENTS FOR ANY MAILBOXES IN CONFLICT WITH CONSTRUCTION TO BE MOVED BY CONTRACTOR JUST INSIDE THE RESIDENTS PROPERTY TO ALLOW MAIL DELIVERY DURING THE WORK. MAIL BOXES ARE TO BE RE-INSTALLED BY THE CONTRACTOR AT THE END OF THE CONSTRUCTION. BIDDERS SHOULD INCLUDE THIS COST IN THE MOBILIZATION BID ITEM.
11. IF THE CONTRACTOR WISHES TO ENTER INTO SEPARATE AGREEMENTS WITH PROPERTY OWNERS TO PAVE DRIVEWAYS THE PROPERTY OWNER MUST OBTAIN THE PROPER PERMIT FROM MONROE COUNTY ENGINEERING SERVICES BEFORE ANY SUCH PAVING IS BEGUN. THE CONTRACTOR IS TO SUPPLY A LIST OF ANY SUCH PROPERTY OWNER TO ENGINEERING SERVICES PRIOR TO COMPLETION OF THE PROJECT.
12. ANY EXISTING ENCROACHMENTS ONTO R/W SHALL BE IDENTIFIED BY THE CONTRACTOR AND COMMUNICATED TO HOMEOWNERS WITH A 30 DAY WRITTEN NOTICE PRIOR TO CONSTRUCTION.
13. NO LATER THAN CONCLUSION OF EACH DAY'S OPERATION, CONTRACTOR SHALL THOROUGHLY CLEAN SPILLED SOIL, GRAVEL OR OTHER FOREIGN MATERIAL

- CAUSED BY THE CONSTRUCTION OPERATIONS FROM THE STREETS AND ROADS.
14. ALL DISTURBED STREETS, ROADS, DETOURS, OR HAUL ROADS IN THE PROJECT AREA SHALL BE TREATED AS REQUIRED, WITH WATER.
15. THE CONTRACTOR SHALL PROVIDE ACCESS TO PROPERTY OWNERS AT ALL TIMES. POTHOLES, TRENCHES, AND OTHER CONSTRUCTION IMPACTS SHALL BE PROPERLY PLATED OR FILLED FOR ACCESS PURPOSES AND WILL BE PAID FOR UNDER MAINTENANCE OF TRAFFIC PAY ITEM NO. 102-1.
16. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES OPEN, UNCOVERED OR EXPOSED AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES WHEN THE CONTRACTOR IS NOT WORKING.
17. CONTRACTOR SHALL KEEP THE SITE FREE FROM DEBRIS, TRASH, & CONSTRUCTION WASTE. CONTRACTOR IS ALLOWED TO STAGE MATERIAL WHERE WORK IS ONGOING ONLY FOR A DAY'S WORK. NO MATERIAL SHALL BE STORED OR STOCKPILED WITHIN THE R/W. ALL ROADS SHALL BE KEPT ACCESSIBLE TO EMERGENCY VEHICLES.
18. CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST. A WATER TRUCK SHALL BE MAINTAINED ON SITE AT ALL TIMES. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK. CLEANING AND SWEEPING IS TO BE INCLUDED IN MAINTENANCE OF TRAFFIC.
19. CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS AND/OR APPROVALS PRIOR TO THE START OF CONSTRUCTION INCLUDING BUT NOT LIMITED TO AN NPDES NOI PERMIT & ANY OTHER ASSOCIATED PERMIT. CONTRACTOR IS ALSO REQUIRED TO OBTAIN & SUBMIT A COST ESTIMATE PRIOR TO OBTAINING PERMITS.
20. ALL LANDSCAPED/OPEN AREAS, PAVEMENTS & OTHER AREAS IMPACTED BY CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL COST TO THE COUNTY'S REPRESENTATIVE.
21. DRIVEWAY RECONSTRUCTION SHALL BE PAID UNDER PAY ITEM FOR TURNOUT CONSTRUCTION. NEW DRIVEWAY SHALL MATCH EXISTING DRIVEWAY PAVEMENT COMPOSITION. WHERE ASPHALT DRIVEWAY IS NEEDED, THE ASPHALT COURSE SHALL BE TRAFFIC LEVEL A. CONCRETE DRIVEWAY SHALL BE A MINIMUM OF 6" THICK.
22. EXISTING SIGNS IN CONFLICT WITH A PROPOSED SWALES AREA SHALL BE PROTECTED. EXISTING SIGNS WITHIN CURVE IMPROVEMENTS SHALL BE RELOCATED ACCORDING TO SIGNING PAVING MARKING DETAILS.
23. IN THE EVENT CONTAMINATED MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY ADVISE MONROE COUNTY'S REPRESENTATIVE AND ENGINEER OF RECORD.
24. ANY MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF PROPERLY BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE COUNTY'S REPRESENTATIVE.
25. GEOTECHNICAL EXPLORATIONS WERE CARRIED OUT ON THE PROJECT SITE BY TERRACON CONSULTANTS, INC. AND A REPORT DATED JANUARY 31TH 2019 AND AN ADDITIONAL REPORT DATED MAY 10, 2021 WERE GENERATED. THESE REPORTS ARE INCLUDED AS PART OF THE PROJECT'S SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THESE REPORTS & ITS RECOMMENDATIONS FOR DEALING WITH POTENTIAL SITE ISSUES. THE CONTRACTOR MUST INCLUDE AS PART OF HIS/HER BID PRICE THE RESOURCES NECESSARY TO INCORPORATE THE RECOMMENDATIONS OF THE REFERENCED REPORTS.
26. CONTRACTOR SHALL PREPARE & SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN PROJECT SPECIFICATIONS.
27. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE & FLUSH WITH EXISTING PAVEMENT.
28. ALL STATIONS AND OFFSETS ARE FROM THE CENTERLINE OF CONSTRUCTION.
29. RADII, DIMENSIONS AND ELEVATIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

30. GRADES SHOWN ARE FINISHED GRADES.
31. R/W BREAK LINES STATIONS AND OFFSETS ARE MEASURED FROM CENTERLINE OF CONSTRUCTION.
32. CONTRACTOR IS FULLY RESPONSIBLE TO RESTORE EXISTING TRAFFIC RELATED INFRASTRUCTURE DAMAGED DURING CONSTRUCTION. THE CONTRACTOR MUST COORDINATE WITH COUNTY REPRESENTATIVE ENGINEERING DIVISION PRIOR TO CONSTRUCTION.
33. AN APPROVED SET OF CONSTRUCTION PLANS AND CONTRACT DOCUMENTS SHALL BE MAINTAINED BY THE CONTRACTOR ON SITE AT ALL TIMES DURING OPERATIONS.
34. CONTRACTOR SHALL PROVIDE TO THE COUNTY'S REPRESENTATIVE, PRIOR TO CONSTRUCTION OF THE PROJECT, A CERTIFICATE THE FLORIDA DEPARTMENT OF AGRICULTURE AND SERVICES DIVISION OF PLANT INDUSTRY, STATING SOD, HAY, STRAW AND MULCH MATERIALS ARE FREE NOXIOUS WEEDS INCLUDING TROPICAL SODA APPLE.
35. CONTRACTOR IS FULLY RESPONSIBLE FOR RESTORING ALL PAVEMENT MARKINGS WITH NEW STRIPING AS SHOWN ON PLANS. FINAL PAVEMENT STRIPING MUST BE THERMOPLASTIC IN ACCORDANCE WITH FDOT STANDARDS. ALL CONSTRUCTION WORK EFFORT ASSOCIATED WITH THIS ITEM MUST BE INCLUDED IN THE BID PRICE.
36. ALL ELEVATIONS ON THE PLAN & PROFILE SHEETS REFER TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD-1988).
37. ALL PUBLIC CORNERS AND PRIMARY NETWORK CONTROL SURVEY MONUMENTS ARE TO BE PROTECTED BY THE CONTRACTOR, CORNERS AND MONUMENTS WITHIN THE WORK ZONE AND IN DANGER OF BEING DAMAGED, DESTROYED OR COVERED SHALL BE PROPERLY REFERENCED BY A REGISTERED LAND SURVEYOR IN ACCORDANCE WITH MINIMUM TECHNICAL STANDARDS OF THE BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO THE BEGINNING OF THE WORK. UPON PROJECT COMPLETION CONTRACTOR SHALL RESTORE ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH TO DISTRICT LOCATION SURVEYOR A SIGNED AND SEALED COPY OF THE LAND SURVEYOR.
38. THE B/L SURVEY AS SHOWN ON THE PLANS IS TO BE USED FOR REFERENCE ONLY. THE B/L SURVEY WAS PROVIDED BY LONGITUDE SURVEYORS, LLC. - EDUARDO M. SUAREZ, PSM - CERTIFICATE NO. 6313.
39. CONTRACTOR MUST COMPLY WITH ALL HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS AS STATED IN THE FLORIDA ADMINISTRATIVE CODE (F.A.C.) RULE 62-555.314.
40. CONTRACTOR SHALL RECORD A PRE-CONSTRUCTION VIDEO AND SUBMIT A COPY OF THE VIDEO TO THE COUNTY'S REPRESENTATIVE PRIOR TO START OF CONSTRUCTION.
41. GRASSED AREAS: UNLESS OTHERWISE SPECIFIED ON CONSTRUCTION DRAWINGS, DETAILS AND SPECIFICATIONS, PROVIDE SOLID SODDING OF BAHIA WHERE PROPOSED SOD IS CALLED OUT ON THE CONSTRUCTION DOCUMENTS.
42. CONTRACTOR TO DOCUMENT IN VIDEO OR PICTURES THE CONDITIONS OF SITE AND ANY SPECIFIC AREA TO BE MODIFIED DUE TO CONSTRUCTION ACTIVITIES AND SUBMIT IT TO THE COUNTY'S REPRESENTATIVE PRIOR TO PROJECT COMMENCEMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE MODIFIED AREAS AS FOUND PRIOR TO CONSTRUCTION, UNLESS OTHERWISE INSTRUCTED BY THE COUNTY'S REPRESENTATIVE.
43. CONTRACTOR TO HARMONIZE RIM ELEVATION OF PROPOSED DRAINAGE STRUCTURES WITH PROPOSED/EXISTING ELEVATION OF ROADWAY. MAXIMUM TOLERANCE TO BE HALF AN INCH IN ANY DIRECTION.
44. ALL TREES FOUND IN THE FIELD THAT MIGHT BE AFFECTED BY CONSTRUCTION SHALL BE PROTECTED UNLESS OTHERWISE NOTED.
45. CONTRACTOR SHALL STAKE A ROPE LINE ON SITE TO INDICATE THE LIMITS OF THE PROJECT AND REQUEST COUNTY BIOLOGICAL SERVICES TO PREPARE MITIGATION PLAN PRIOR TO COMMENCEMENT OF PROJECT IN ACCORDANCE WITH MONROE COUNTY BUILDING DEPARTMENT PERMIT REQUIREMENTS.

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SEA LEVEL RISE ROADWAY AND DRAINAGE PROJECT
SANDS SUBDIVISION - BIG BONE KEY
MONROE COUNTY - DEPARTMENT OF ENGINEERING

PROJECT NOTES

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WERNER REINEFELD, P.E.
P.E. LICENSE NUMBER 63042
WSP USA, 7650 CORPORATE CENTER DRIVE,
SUITE 300, MIAMI, FLORIDA 33126
CERTIFICATE OF AUTHORIZATION 01462

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UTILITIES NOTES

- 1. THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL 811 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION/DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY OWNERS WITHIN THE PROJECT'S LIMITS (INCLUDING THOSE LISTED BELOW), COORDINATING AND OBTAINING PROPOSED RELOCATION/INSTALLATION SCHEDULES FOR ALL IMPACTED UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND VERIFYING THE EXACT LOCATION OF ALL EXISTING UTILITIES AND PROPOSED LOCATIONS.
- 3. THE LOCATION & SIZE OF ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL ADVISE IF CONFLICTS EXIST AND PROPOSE A SOLUTION FOR EOR TO APPROVE. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT & NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- 4. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO TAKE ADEQUATE MEASURES TO ENSURE SAFETY WHEN WORKING WITHIN THE VICINITY OF OVERHEAD ELECTRICAL, TELEPHONE & OTHER UTILITIES. PROPER COORDINATION WITH JURISDICTIONAL AUTHORITIES MUST BE UNDERTAKEN AS APPLICABLE.
- 5. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR TEMPORARY RELOCATION/FIELD ADJUSTMENT TO FACILITATE CONNECTION OF PROPOSED DRAINAGE SYSTEM.
- 6. CONTRACTOR MUST ENSURE THAT PRECISE RECORDS ARE TAKEN PRIOR TO BACKFILLING OVER UTILITIES. AS-BUILTS MUST CONFORM TO APPLICABLE STANDARDS & REQUIREMENTS STIPULATED BY THE PROJECT SPECIFICATIONS.
- 7. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED IN THE PLANS.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING AND RETROFITTING ALL UTILITY INFRASTRUCTURE WITHIN THE PROPOSED ROAD IMPROVEMENTS SUCH THAT THEY ARE FLUSH WITH THE PROPOSED SURFACE AND ARE TRAFFIC RATED WHETHER THEY ARE SHOWN IN THE PLANS OR NOT. THESE TYPES OF INFRASTRUCTURE INCLUDE BUT ARE NOT LIMITED TO VALVE COVERS, MANHOLES, ETC. THESE ADJUSTMENTS AND RETROFITS MUST BE COORDINATED WITH THE OWNERS OF THE FACILITIES AND THE COSTS MUST BE INCLUDED IN THE BID PRICE. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THE ABOVE.
- 9. THE CONTRACTOR SHALL CUT AND PLUG EXISTING ABANDONED UTILITY IN CONFLICT WITH THE INSTALLATION OF THE PROPOSED DRAINAGE STRUCTURE. CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER PRIOR TO CUTTING THE UTILITY AND INSTALLING THE STRUCTURES, IF THE UTILITY IS A MAIN LARGER THAN 4-INCH, THE UTILITY MAY BE FILLED WITH GROUT.
- 10. UTILITY OWNERS:

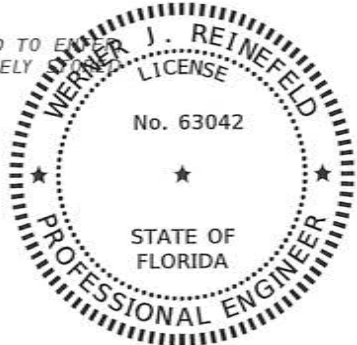
FLORIDA KEYS AQUEDUCT AUTHORITY 305-295-2154
KEYS ENERGY SERVICES 305-295-1047
AT&T 305-913-1408

PRE-TRENCHING NOTES

- 1. UTILITIES SHOWN ON THESE PLANS SHEETS ARE APPROXIMATE & ADDITIONAL UTILITIES MAY EXIST IN THE FIELD THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR MUST INCLUDE AS PART OF HIS/HER BID, AN ITEM FOR PRE-TRENCHING TO ENSURE THAT NO PORTION OF THE PROPOSED WORK CONFLICTS WITH ANY UTILITIES, PRIOR TO CONSTRUCTION. IF POTENTIAL CONFLICTS ARE FOUND, THEN THE CONTRACTOR MUST NOTIFY THE OWNER, ENGINEER & UTILITY OWNER AT LEAST SEVEN (7) DAYS ADVANCED NOTICE PRIOR TO CONSTRUCTION. THIS NOTIFICATION SHALL INCLUDE SURVEY INFORMATION ABOUT THE CONFLICTING UTILITY'S HORIZONTAL & VERTICAL ALIGNMENT. FAILURE ON THE CONTRACTOR'S PART TO PRE-TRENCH PRIOR TO CONSTRUCTION IS AT HIS/HER OWN RISK & BY SO DOING RELIEVES THE OWNER & THE ENGINEER OF ANY & ALL LIABILITIES & COSTS ASSOCIATED WITH RESOLVING UTILITY CONFLICTS. IN ADDITION, NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR ANY COSTS INCURRED AS A RESULT OF FAILURE ON THE CONTRACTOR'S PART TO PRE-TRENCH.
- 2. EXTREME CAUTION MUST BE USED DURING ANY EXCAVATION. ALL EXCAVATIONS MUST BE SHORED, SHEETED, BRACED OR OTHERWISE SUPPORTED AS INDICATED IN THE GEOTECHNICAL REPORT'S RECOMMENDATIONS.
- 3. CONTRACTOR MUST UTILIZE SUBSURFACE UTILITY ENGINEERING METHODS & CORING TO DISCLOSE THE PRESENCE OF ROCK, UTILITIES & OTHER SUBSURFACE ELEMENTS NOT INDICATED ON TOPOGRAPHY SURVEY.
- 4. CONTRACTOR MUST ENGAGE IN CONSULTATIONS WITH IDENTIFIED UTILITY OWNERS.
- 5. PRE-TRENCHING DIRECTIONS TO CONTRACTOR:
 - A. CONTRACTOR MUST UTILIZE A SUPPORT SYSTEM STURDY ENOUGH TO WITHSTAND THE PRESSURE OF THE SOIL.
 - B. CONTRACTOR MUST UTILIZE A SUPPORT SYSTEM STURDY ENOUGH TO WITHSTAND THE STRESS WHICH MAY BE EXERTED BY WATER, VIBRATION, OR HEAVY LOADS.
 - C. CONTRACTOR MUST PROPERLY SUPPORT ANY UNDERGROUND INSTALLATIONS THAT ARE UNCOVERED.
 - D. CONFORM TO FLORIDA'S TRENCH SAFETY ACT & OSHA REQUIREMENTS.
- 6. BEFORE TRENCHING OR EXCAVATION, CONTRACTOR MUST CHECK THE FOLLOWING:
 - A. SOIL CONDITIONS OR OTHER MATERIAL TO BE REMOVED.
 - B. PROXIMITY TO UTILITIES, BUILDINGS & SOURCES OF VIBRATIONS.
 - C. OWNERS OF UTILITIES, SERVICE, OR TRANSMISSION PIPING, ETC. & ARRANGE FOR SHUTDOWN OR RELOCATION OF FACILITIES, IF NECESSARY.
 - D. FOR PREVIOUSLY DISTURBED GROUND.
 - E. FOR TREES, BOULDERS, OR OTHER HAZARDS.
 - F. ADEQUACY & AVAILABILITY OF ALL EQUIPMENT, INCLUDING PERSONAL PROTECTIVE GEAR, SHORING MATERIALS, SIGNS, BARRICADES & MACHINERY.

- 7. DURING TRENCHING OR EXCAVATION, CONTRACTOR MUST REGULARLY CHECK FOR THE FOLLOWING:
 - A. CHANGING GROUND CONDITIONS PARTICULARLY AFTER RAINFALL.
 - B. POSSIBLE OXYGEN DEFICIENCY OR GASEOUS CONDITIONS.
 - C. ADEQUACY OF SHORING AND/OR SLOPING AS WORK PROGRESSES.
 - D. MAINTENANCE OF ENTRANCE & EXIT FACILITIES.
 - E. ALL SHEETING, BRACING, SHORING & UNDERPINNING.
 - F. CHANGES IN VEHICULAR & MACHINERY OPERATIONAL PATTERNS
- 8. AFTER TRENCHING OR EXCAVATION, THE CONTRACTOR MUST CHECK FOR:
 - A. DEPTH OF TRENCHING OR EXCAVATION, ITS SLOPING & SHORING.
 - B. SLOPING OF BANKS, SIDES & WALLS 1M RELATION TO DEPTH OF CUT, WATER CONTENT OF SOIL, VIBRATIONS.
 - C. ENTRANCE & EXIT FACILITIES.
 - D. LOCATION OF HEAVY EQUIPMENT - POWER SHOVELS, DERRICK, TRUCKS.
 - E. EXCAVATION MATERIAL IS TWO FEET OR MORE FROM EDGE OF OPENING.
 - F. PORTABLE TRENCH BOXES OR TRENCH SHIELDS ARE ADEQUATE, IF USED.
 - G. CROSS BRACES OR TRENCH JACKS ARE CORRECTLY POSITIONED TO PREVENT SLIDING, FALLING OR KICKOUTS.
- 9. PRE-TRENCHING REQUIREMENTS CHECKLIST:
 - A. PRIOR TO EXCAVATION. THE CONTRACTOR MUST UNDERTAKE EFFORTS TO DETERMINE UNDERGROUND INSTALLATIONS SUCH AS SEWER, TELEPHONE, WATER, GAS, ELECTRIC LINES, ETC. ARE PRESENT & WHERE THEY ARE ACTUALLY LOCATED.
 - B. THE WALLS & FACES OF ALL EXCAVATIONS IN WHICH EMPLOYEES ARE EXPOSED TO DANGER FROM MOVING GROUND SHALL BE GUARDED BY A SHORING SYSTEM, SLOPING OF THE GROUND OR SOME OTHER EQUIVALENT MEANS.
 - C. THE DETERMINATION OF THE ANGLE OF REPOSE & DESIGN OF THE SUPPORTING SYSTEM SHALL BE BASED ON CAREFUL EVALUATION OF PERTINENT FACTORS SUCH AS: DEPTH OF CUT, POSSIBLE VARIATION IN THE WATER CONTENT OF THE MATERIALS FROM EXPOSURE TO AIR, SUN AND/OR WATER.
 - D. ALL SLOPES SHALL BE EXCAVATED TO AT LEAST THE ANGLE OF REPOSE EXCEPT IN AREAS WHERE SOLID ROCK ALLOWS FOR LIMB DRILLING OR PRESPLITTING.
 - E. IN EXCAVATIONS WHICH EMPLOYEES MAY BE REQUIRED TO ENTER, EXCAVATED OR OTHER MATERIALS SHALL BE EFFECTIVELY & RETAINED AT LEAST 2 FT OR MORE FROM THE EDGE OF THE EXCAVATION.

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DATE	DESCRIPTION	DATE	DESCRIPTION						

PAVING NOTES

- 1. RESURFACING OF MILLED AREAS SHALL BE COMPLETED WITHIN 3 CALENDAR DAYS OF MILLING OPERATION TO MINIMIZE POTHOLE DEVELOPMENT AND INCONVENIENCES TO MOTORING PUBLIC.
- 2. UNLESS OTHERWISE INDICATED, ONLY ROADWAY LANES AFFECTED BY ACTUAL CONSTRUCTION OR DAMAGED BY CONSTRUCTION EQUIPMENT SHALL BE MILLED AND RESURFACED. LANES DAMAGED BY CONSTRUCTION EQUIPMENT OR BY THE IMPROPER OPERATION OF CONSTRUCTION EQUIPMENT SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE. ALL RESTORATION SHALL COMPLY WITH THE STANDARDS AND REQUIREMENTS OF FDOT AND MONROE COUNTY.
- 3. CONTRACTOR SHALL ADJUST ALL MANHOLE COVERS, UTILITY ACCESS BOXES, CATCH BASINS, VALVE BOXES TO BE FLUSH WITH FINISH GRADES.
- 4. CONTRACTOR SHALL POST SIGNS NOTIFYING RESIDENTS OF PAVING SCHEDULE DAYS AT LEAST 48 HOURS IN ADVANCE.

GRADING NOTES

- 1. OSHA TRENCH SAFETY COMPLIANCE - THE CONTRACTOR SHALL UTILIZE TRENCH BOXES OR OTHER APPROVED MEANS TO COMPLY WITH THE FLORIDA TRENCH SAFETY ACT (FLORIDA STATUTE SECTIONS 553.60-553.63), AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) EXCAVATION SAFETY STANDARDS, 29 C.F.R.S. 1926.650 SUBPART P.
- 2. EXCESS EXCAVATED MATERIAL - EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OF IN A MANNER ACCEPTABLE AND AUTHORIZED BY JURISDICTIONAL AUTHORITIES. CONTRACTOR MUST COMPLY WITH APPLICABLE SECTIONS OF TECHNICAL SPECIFICATIONS.
- 3. CONSTRUCTION DEBRIS SHALL NOT BE BURIED OR LEFT ON SITE DURING OR AFTER CONSTRUCTION. ADVERSE IMPACTS TO PROPOSED WORK OR ALREADY CONSTRUCTED WORK BY DEBRIS MUST BE AVOIDED.
- 4. LANDSCAPED AREAS & OTHER PERVIOUS AREAS THAT DO NOT HAVE A DEFINED DRAINAGE COLLECTION SYSTEM SHALL BE GRADED TO ENSURE POSITIVE DRAINAGE.

MOT NOTES

- 1. TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE FDOT DESIGN STANDARDS (102-600 SERIES), THE 2022 FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2009 EDITION) AS MINIMUM CRITERIA.
- 2. THE POSTED SPEED LIMITS SHALL REMAIN AT ALL TIMES DURING CONSTRUCTION.
- 3. MAINTAIN ACCESS TO ALL PROPERTIES FOR EMERGENCY VEHICLES AND SOLID WASTE SERVICES.
- 4. MAINTAIN CLEAR DRIVEWAY ACCESS TO ALL PROPERTIES.
- 5. PROVIDE AND MAINTAIN ACCESS TO THE LOCAL TRAFFIC AND BUSINESSES AT ALL TIMES DURING CONSTRUCTION PER FDOT STANDARD INDEX 600.
- 6. THE MAINTENANCE OF TRAFFIC (MOT) PLANS FOR THE PROJECT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MUST PRODUCE HIS/HER OWN MOT PLANS & MUST HAVE SAID PLANS APPROVED BY OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION. RESIDENTS ACCESS TO THEIR HOMES AND ACCESS FOR EMERGENCY VEHICLES SHOULD BE PROVIDED AT ALL TIMES. THE COST ASSOCIATED WITH THIS EFFORT MUST BE REFLECTED IN THE BID. NO ADDITIONAL COMPENSATION WILL BE GRANTED BY THE COUNTY FOR MOT COSTS ASSOCIATED WITH THIS PROJECT AFTER PROJECT AWARD. MOT PLANS THAT IMPACT US-1 SHALL BE APPROVED BY FDOT.
- 7. MOT PLANS SHALL INCLUDE BUT NOT LIMITED TO MESSAGE BOARDS TO INFORM DRIVERS OF CONSTRUCTION ON ROADWAY & MAINTAINING CROSSING ACCESS, ETC. CONTRACTOR IS ALSO RESPONSIBLE FOR NOTIFYING ALL SCHOOLS & EMERGENCY SERVICES WITHIN THE VICINITY OF THE PROJECT LIMITS ABOUT THE CONSTRUCTION SCHEDULE.
- 8. ALL WORK SHALL BE PERFORMED DURING DAY TIME ONLY, 7A.M. TO 7P.M. EQUIPMENT, GENERATORS, AND OTHER HEAVY MACHINERY CAPABLE OF GENERATING LOUD NOISE SHALL NOT BE USED OR OPERATED BEFORE 8A.M. CONTRACTOR TO COORDINATE WITH COUNTY'S REPRESENTATIVE PRIOR TO BEGIN CONSTRUCTION.

ENVIRONMENTAL NOTES

1. GENERAL ENVIRONMENTAL NOTES:

THE CONTRACTOR SHALL REVIEW ENVIRONMENTAL REQUIREMENTS OF ANY PROPOSED STAGING AREAS WITH THE MONROE COUNTY PROJECT CEI REPRESENTATIVE AT LEAST SEVENTY TWO (72) HOURS PRIOR TO USE. STAGING AREAS ON PARCELS NEED TO BE APPROVED AND PERMITTED BY THE MONROE COUNTY BUILDING DEPARTMENT AT (305)-289-2501.

ANY MATERIAL TO BE STOCKPILED FOR PERIODS GREATER THAN 24 HOURS SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL DEVICES, COST TO BE INCLUDED IN THE RELATED BID ITEM.

2. WETLANDS & OTHER SURFACE WATERS:

THE CONTRACTOR IS ADVISED THAT WETLAND AND OTHER SURFACE WATERS (NATURAL WATER BODIES AND SIMILAR OPEN OR PARTIALLY OPEN WATER AREAS, WATERS OF THE UNTIED STATES) ARE ADJACENT TO THE PROJECT. THE CONTRACTOR SHALL NOT IMPACT THESE WETLANDS OR PROTECTED OTHER SURFACE WATERS. WETLANDS CANNOT BE USED AS STAGING OR STOCKPILE AREAS.

THE CONTRACTOR SHALL NOT IMPACT WETLANDS ADJACENT TO THE PROJECT CORRIDOR. PRIOR TO OR AT THE TIME OF THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL MEET WITH THE PROJECT ENGINEER TO FIELD-VERIFY THE EXTENT AND BOUNDARY OF WETLAND VEGETATION ON SITE, STRAW WATTLES WILL BE INSTALLED AT CONSTRUCTION AREAS ADJACENT TO WETLANDS, AND MAINTAINED IN GOOD CONDITION AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.

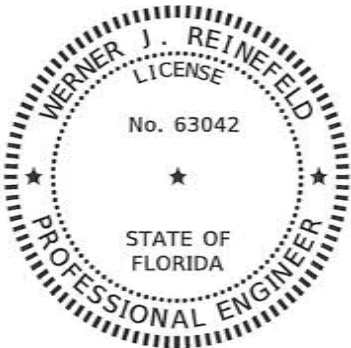
ANY MATERIAL INADVERTENTLY PLACED IN WETLANDS OR OTHER SURFACE WATERS SHALL BE REMOVED BY HAND. ANY ACCIDENTAL DAMAGE CAUSED TO PROTECTED/PRESERVED WETLANDS AS A RESULT OF THE CONTRACTOR'S ACTIVITIES SHALL IMMEDIATELY BE REPORTED TO THE PROJECT MANAGER AND PROJECT ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPROPRIATE REMEDIATION OF ANY SUCH DAMAGE IN ACCORDANCE WITH DIRECTIVES AND SPECIFICATIONS PROVIDED BY THE PROJECT MANAGER OR THE MANAGER'S DESIGNEE.

STRAW WATTLES SHALL NOT BE PLACED WITHIN THE LIMITS OF ANY WETLANDS OR OTHER SURFACE WATERS. IF HAY BALES ARE USED FOR EROSION CONTROL, PLACEMENT OF THESE BALES WITHIN WETLANDS SHOULD BE AVOIDED EXCEPT IN SITUATIONS WHERE LOCATION OF STAKED BALES IN WETLANDS IS ABSOLUTELY NECESSARY TO ADEQUATELY CONTROL EROSION AND TURBIDITY.

THIS PROJECT IS ADJACENT TO THE WATERS OF THE ATLANTIC OCEAN AND FLORIDA BAY, WHICH ARE DESIGNATED OUTSTANDING FLORIDA WATERS. NO DEGRADATION OF WATER QUALITY, INCREASED TURBIDITY IN THE WATER, AND/OR DISCHARGE OF ANY FOREIGN MATERIAL INTO THE WATER SHALL BE PERMITTED.

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ENVIRONMENTAL NOTES (CONT.)

3. PROTECTION OF LISTED SPECIES:

VARIOUS ANIMALS DESIGNATED BY STATE AND FEDERAL AGENCIES AS ENDANGERED, THREATENED, OR SPECIES OF SPECIAL CONCERN (E.G., "LISTED SPECIES") MAY BE PRESENT IN THE GENERAL PROJECT AREA. SUCH SPECIES INCLUDE, BUT ARE NOT LIMITED TO, KEY LARGO WOODRAT (*Neotoma floridana smalli*), KEY LARGO COTTON MOUSE (*Peromyscus gossypinus allapaticola*), STOCK ISLAND TREE SNAIL (*Orthalicus reses reses*), FLORIDA TREE SNAIL (*Iguis fasciatus*), SCHAUS' SWALLOWTAIL BUTTERFLY (*Heraclides aristodemus ponceanus*), WHITE-CROWNED PIGEON (*Columba leucocephala*), SNOWY EGRET (*Egretta thula*), LITTLE BLUE HERON (*Egretta carulia*), TRICOLORED HERON (*Egretta tricolor*), WHITE IBIS (*Eudocimus albus*), BROWN PELICAN (*Pelicanus occidentalis*), ROSEATE SPOONBILL (*Platalea haliaetus*), AMERICAN CROCODILE (*Crocodylus acutus*), AMERICAN ALLIGATOR (*Alligator mississippiensis*), EASTERN INDIGO SNAKE (*Drymarchon corals couperi*), AND RIM ROCK CROWNED SNAKE (*Tantilla oolitica*). THE CONTRACTOR SHOULD BE AWARE THAT STATE AND FEDERAL REGULATIONS PROHIBIT HARMING OR HARASSING ANY LISTED SPECIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL PROJECT PERSONNEL, INCLUDING SUB-CONTRACTORS, ARE AWARE OF AND ABIDE BY ALL REQUIREMENTS PERTAINING TO LISTED ANIMAL AND PLANT SPECIES. THIS RESPONSIBILITY EXTENDS TO ENSURING PROJECT PERSONNEL ARE AWARE OF AND ABIDE BY THE REQUIREMENT FOR INSPECTING VEGETATION CLEARING/TRIMMING AREAS FOR THE PRESENCE OF BIRD NESTS AND THE PROHIBITION AGAINST DAMAGING SUCH NESTS WITHOUT PRIOR APPROVAL (SEE GENERAL VEGETATION CLEARING AND TRIMMING NOTES).

IT IS OFTEN DIFFICULT FOR UNTRAINED PERSONNEL TO CORRECTLY IDENTIFY LISTED SPECIES. BECAUSE OF THIS, THE CONTRACTOR SHALL NOT HARM OR HARASS ANY ANIMAL SPECIES ENCOUNTERED DURING PROJECT CONSTRUCTION. SHOULD THESE SPECIES BE ENDANGERED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL CONTACT THE COUNTY REPRESENTATIVE WITHIN 24 HOURS OF EACH ENCOUNTER.

THE FOLLOWING PRECAUTIONS WILL BE TAKEN IF AN AMERICAN CROCODILE OR AMERICAN ALLIGATOR IS ENCOUNTERED DURING CONSTRUCTION: ALL WORKERS SHALL BE NOTIFIED, THE ALLIGATOR OR CROCODILE SHALL BE ALLOWED TO LEAVE THE SITE ON ITS OWN AND SHALL NOT BE DISTURBED, HERDED, INJURED, OR KILLED. THE CONTRACTOR SHALL KEEP A DAILY LOG DETAILING ALL SIGHTINGS, INJURIES, OR KILLINGS. AFTER PROJECT COMPLETION, REPORTS SUMMARIZING THESE EVENTS SHALL BE SUBMITTED TO THE COUNTY REPRESENTATIVE. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL AND STATE REQUIREMENTS REGARDING ENDANGERED OR THREATENED SPECIES. SHOULD THESE SPECIES BE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE COUNTY REPRESENTATIVE WITHIN 24 HOURS OF EACH ENCOUNTER.

THE FOLLOWING PRECAUTIONS WILL BE TAKEN IF AN EASTERN INDIGO SNAKE IS ENCOUNTERED DURING CONSTRUCTION: ALL WORKERS SHALL BE NOTIFIED. THE SNAKE SHALL BE ALLOWED TO LEAVE THE SITE ON ITS OWN AND SHALL NOT BE DISTURBED, HERDED, INJURED, OR KILLED. FENCING SHALL NOT BE ERECTED, AS THE SNAKE MAY SUSTAIN INJURY IF IT BECOMES ENTANGLED IN THE MESH. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL AND STATE REQUIREMENTS REGARDING ENDANGERED OR THREATENED SPECIES. SHOULD THESE SPECIES BE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE COUNTY REPRESENTATIVE WITHIN 24 HOURS OF EACH ENCOUNTER.

4. PROTECTED HARDWOOD HAMMOCK:

PROTECTED HARDWOOD HAMMOCK HABITAT IS LOCATED ADJACENT TO SOME AREAS OF THE PROJECT. THIS HABITAT CONTAINS PROTECTED VEGETATION AS WELL AS SEVERAL OF THE LISTED SPECIES IDENTIFIED ABOVE. THEREFORE, IT IS CRITICAL THAT THE SAME LEVEL OF PRECAUTION BE APPLIED TO AVOIDING IMPACTS TO THIS HABITAT AS MUST BE APPLIED TO PROTECTED WETLANDS.

PRIOR TO CONSTRUCTION, STRAW WATTLES MUST BE INSTALLED ALONG THE EDGE OF HAMMOCK VEGETATION TO REDUCE DUST FROM ENTERING THE HAMMOCK FLOOR AND TO CLEARLY DELINEATE THE AREAS THAT MUST BE AVOIDED DURING CONSTRUCTION ACTIVITIES, INCLUDING STAGING, WALKING, AND EQUIPMENT MOVEMENTS.

5. GENERAL VEGETATION CLEARING AND TRIMMING:

PROJECT CONSTRUCTION ACTIVITIES WITHIN THE PROJECT LIMITS OF CONSTRUCTION (LOC) MAY REQUIRE TRIMMING OF PORTIONS OF TREES AND SHRUBS THAT EXTEND INTO THE LOC FROM VEGETATION THAT IS LOCATED OUTSIDE OF BUT ADJACENT TO THE LOC. THESE TREES AND SHRUBS MUST BE PROTECTED WHERE FEASIBLE.

ALL TRIMMING OF NATIVE TREES AND SHRUBS, AND ANY ROOT TRIMMING OR PRUNING NECESSARY TO CONSTRUCT THE PROJECT, MUST BE CONDUCTED BY OR PERFORMED UNDER THE DIRECT SUPERVISION OF A CERTIFIED ARBORIST, CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE. COST TO BE INCLUDED IN THE RELATED BID ITEM.

THE CLEARING OR REMOVAL OF EXISTING NATIVE VEGETATION LOCATED OUTSIDE THE PROJECT LOCATION IS PROHIBITED, UNLESS OTHERWISE INDICATED IN THE PLANS. IF NATIVE VEGETATION, INCLUDING LANDSCAPING MATERIALS, LOCATED OUTSIDE SAID AREAS IS IMPACTED WITHOUT AUTHORIZATION OR TREES SPECIFIED TO BE PROTECTED IN THE PROJECT PLANS ARE IMPACTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY REPLACEMENTS. REPLACEMENT VEGETATION MUST BE APPROVED BY THE COUNTY REPRESENTATIVE OR HIS DESIGNEE. THE CONTRACTOR SHALL WARRANT THE ESTABLISHMENT AND SURVIVAL OF THE REPLACEMENT MATERIAL FOR A PERIOD OF AT LEAST ONE YEAR FOLLOWING ITS INSTALLATION.

WHERE PROJECT CONSTRUCTION REQUIRES CLEARING OR TRIMMING OF EXISTING TREES OR SHRUBS, THE CONTRACTOR SHALL FIRST HAVE A QUALIFIED BIOLOGIST THOROUGHLY INSPECT THE AREA TO BE IMPACTED FOR THE PRESENCE OF LISTED SPECIES AND/OR BIRD NESTS. THIS INSPECTION SHALL BE CONDUCTED NO SOONER THAN ONE WEEK PRIOR TO STARTING THE VEGETATION CLEARING/TRIMMING ACTIVITIES IN A PARTICULAR PORTION OF THE PROJECT. SHOULD PRESENCE OF A LISTED SPECIES OR A BIRD'S NEST BE ENCOUNTERED, THE QUALIFIED BIOLOGIST SHALL MARK THE LOCATION AND IMMEDIATELY NOTIFY THE COUNTY REPRESENTATIVE (OR MANAGER'S DESIGNEE). NO CLEARING OR TRIMMING OF EXISTING TREES OR SHRUBS SHALL BE CONDUCTED WITHIN FIFTY (50) FEET OF AN IDENTIFIED LISTED SPECIES OR NEST UNTIL THE COUNTY REPRESENTATIVE (OR MANAGER'S DESIGNEE) NOTIFIES THE CONTRACTOR THAT WORK CAN PROCEED IN THIS BUFFER AREA.

6. KEY DEER CONSERVATION:

ALL OPEN DITCHES AND HOLES WITHIN THE RANGE OF THE KEY DEER SHALL BE COVERED WHEN ACTIVE CONSTRUCTION IS NOT ONGOING TO PREVENT ACCIDENTAL INJURY TO KEY DEER OR OTHER LISTED SPECIES.

EQUIPMENT AND MATERIAL FOR STAGING/PARKING/STORAGE AREAS SHALL BE LOCATED OUTSIDE OF AREAS OF NATIVE VEGETATION, AND KNOWN ENDANGERED SPECIES HABITATS.

DO NOT FEED KEY DEER, DO NOT LEAVE ANY FOOD ITEMS IN AN AREA THAT IS ACCESSIBLE TO KEY DEER. ALL TRASH RESULTING FROM THE CONSTRUCTION OR CREWS SHALL BE REMOVED FROM THE AREA AS APPROPRIATE OR DISPOSED OF PROPERLY IN COVERED TRASH RECEPTACLES.

OBEY ALL SPEED LIMITS.

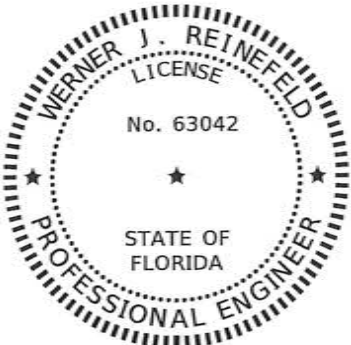
STRAW WATTLES SHALL BE USED TO PROTECT WETLANDS AND OTHER SENSITIVE HABITATS FROM RUNOFF. STRAW WATTLES DO NOT CREATE A BARRIER TO KEY DEER INGRESS/EGRESS OF STREETS AND ALLOW THE DEER TO EASILY AVOID VEHICLE COLLISIONS.



7. PLANT SURVEYS

UPON DESIGNATING STAGING AREAS FOR EQUIPMENT AND SUPPLIES, SURVEYS OF LISTED PLANT SPECIES SHALL BE CONDUCTED TO AVOID IMPACTS TO THOSE SPECIES. THE MAIN FOCUS OF PLANT SURVEYS SHOULD BE ON BIG PINE PARTRIDGE PEA (*chainaecrisia lineala* var. *keyensis*), VEDGE SPURGE (*chaznaesyce deltoidea* ~pp.), AND SAND FLAX (*linuni arenicola*) AS THESE ARE THE SPECIES KNOWN TO OCCUR WITHIN THE RIGHT-OF-WAY WITHIN BIG PINE KEY.

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LEGEND

	RIGHT OF WAY
	PROPERTY LINE
	STRAW WATTLES
	PROP. CATCH BASIN
	PROP. MANHOLE
	MILLING & RESURFACING
	MILLING, RESURFACING & OVERBUILD
	RECONSTRUCTION
	BAHIA
	NO 57 STONE
	PALM TREE
	TREE
	ORNAMENTAL TREE
	FIRE HYDRANT
	WATER VALVE
	VALVE
	SANITARY MANHOLE
	SANITARY VALVE
	UTILITY POLE
	MAILBOX
	SIGN
	SPOT ELEV./RIM ELEV.
	HIGH POINT ELEV.
	RUNOFF DIRECTION OF FLOW
	RUNOFF DIRECTION OF FLOW AT EOP

ABBREVIATIONS

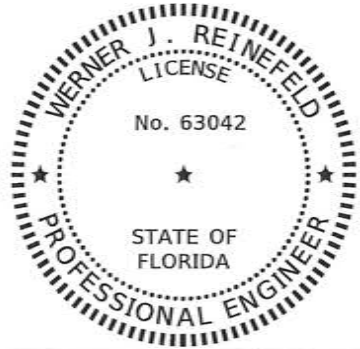
ABND	ABANDONED
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIAL
AVE	AVENUE
BL/℄	BASELINE
CB	CATCH BASIN
CL/℄	CENTERLINE
E	EASTING
EL./ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EOR	ENGINEER OF RECORD
EXIST	EXISTING
FT	FEET
HP	HIGH POINT
HORIZ	HORIZONTAL
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
N	NORTHING-NORTH
NAVD	NORTH AMERICAN VERTICAL DATUM
NTS	NOT TO SCALE
OE	OVERHEAD ELECTRICAL
PC	POINT OF CURVATURE
PGL	PROFILE GRADE LINE
PGP	PROFILE GRADE POINT
PI	POINT OF INTERSECTION
PROP	PROPOSED
PT	POINT
RAD/R	RADIUS
RT	RIGHT
R/W	RIGHT OF WAY
SAN/SS/S	SANITARY SEWER
SD	STORM DRAINAGE
STA	STATION
STD	STANDARD
T.B.M.	TEMPORARY BENCH MARK
TOP	TOP OF PIPE
TYP	TYPICAL
VERT	VERTICAL
WM	WATERMAIN

APPLICABLE CODES AND STANDARD SPECIFICATIONS:

1. FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DESIGN STANDARDS FY 2021-22.
2. FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) SPECIFICATIONS, 2021.
3. FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS (FLORIDA GREENBOOK), 2018.
4. MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009.
5. FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP).
6. SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD).
7. U.S. ARMY CORPS OF ENGINEERS (USACE).

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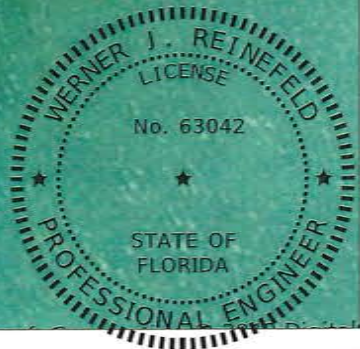


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DATE	DESCRIPTION	DATE	DESCRIPTION					G-10B



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DATE	DESCRIPTION	DATE	DESCRIPTION						

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, 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 CONSIST OF MILLING, RESURFACING, OVERBUILD & RECONSTRUCTION OF THE STREETS DETAILED BELOW IN MONROE COUNTY, FLORIDA. THIS INVOLVES SWALE REGRADEING AND UNDERGROUND STORMDRAIN SYSTEMS FOR STORMWATER MANAGEMENT.

1. BIG PINE KEY
FATHER TONY WAY
AVE J
AVE G

1.A. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

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

1.A.1. PERMANENT OR TEMPORARY EROSION & SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AT THE EARLIEST PRACTICABLE TIME CONSISTENT WITH GOOD CONSTRUCTION PRACTICE. ONE OF THE FIRST CONSTRUCTION ACTIVITIES SHALL BE THE PLACEMENT OF TEMPORARY EROSION & SEDIMENT CONTROL MEASURES AROUND THE PERIMETER OF THE PROJECT, THE INITIAL WORK AREA, & OTHER AFFECTED AREAS TO PREVENT STORM WATER POLLUTION. CLOSE ATTENTION SHALL BE PAID TO THE MANGROVES AND WETLAND AREAS NEARBY AVE J.

1.A.2. CONFORMANCE WITH SWPPP DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITIES TO PROTECT ADJACENT PROPERTIES, FEATURES & NATURAL ENVIRONMENT FROM THE POSSIBLE DAMAGE IMPACT THAT MAY ARISE AS A RESULT OF THE CONSTRUCTION.

1.A.3. CONTRACTOR SHALL INSTALL PERIMETER POLLUTION PREVENTION CONTROLS AFTER CLEARING & GRUBBING BUT BEFORE BEGINNING OTHER CONSTRUCTION PHASES. CONTRACTOR SHALL REMOVE PERIMETER CONTROLS ONLY AFTER ALL AREAS HAVE BEEN STABILIZED.

1.A.4. MODIFICATIONS OR CHANGES TO THE INFORMATION DEPICTED ON THE STORMWATER POLLUTION PREVENTION PLAN MUST BE SUBMITTED THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) FOR APPROVAL.

1.A.5. IF ADDITIONAL EROSION & SEDIMENT CONTROL BMP'S ARE REQUESTED BY ANY REGULATORY AGENCY, THE CONTRACTOR SHALL PROMPTLY IMPLEMENT SAID MEASURES AFTER APPROVAL OF EOR/JURISDICTIONS.

1.A.6. CONTRACTOR SHALL MEET THE MAINTENANCE REQUIREMENTS AS INDICATED IN SECTION 2.0 CONTROLS.

1.A. AREA ESTIMATES

TOTAL SITE AREA: 3.48 ACRES

TOTAL AREA TO BE DISTURBED: 3.48 ACRES
1.B. RUNOFF DATA:

RUNOFF COEFFICIENTS:

THE WEIGHTED RUN-OFF COEFFICIENT IS 0.55.

1.C. SOILS DATA:

LIGHT BROWN LIMESTONE WITH FINE SAND:
FROM 1.3-2.5FT TO 14FT (MAX DEPTH OF THE BORINGS)

1.D. RECEIVING WATER BODIES INFORMATION:

THERE ARE NO RECEIVING WATER BODIES AFFECTED DIRECTLY UNDER THIS PROJECT.

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.

- APPROXIMATE SLOPES: THE SLOPES OF THE SITE ARE TO REMAIN AS EXISTING OR AS SHOWN IN PLANS. ANY INCIDENTAL REGRADEING WILL HAVE POSITIVE DRAINAGE INTO THE PROPOSED STORM DRAIN SYSTEMS.
- AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE CONSTRUCTION PLANS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.
- AREAS NOT TO BE DISTURBED; ROADSIDE AREAS WHERE MILLING AND RESURFACING OCCUR WILL NOT BE DISTURBED UNLESS PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND.
- LOCATIONS OF TEMPORARY CONTROLS: THESE ARE SHOWN ON THE CONSTRUCTION PLANS. THE CONTRACTOR'S EROSION CONTROL SHEETS MAY PROVIDE EXCEPTIONS FOR THE CONTROLS ASSOCIATED WITH CONSTRUCTION AREAS.
- LOCATIONS OF PERMANENT CONTROLS; THESE ARE SHOWN ON THE CONSTRUCTION PLANS.
- SURFACE WATERS: THERE ARE NO SURFACE WATERS WITHIN THE ROADWAY WORK PROPOSED SINCE THE WORK IS LIMITED TO WITHIN THE EXISTING ROADWAY RIGHT-OF-WAYS.
- DISCHARGE POINTS TO SURFACE WATERS: REFER TO ITEM 1.E.

2.0 CONTROLS

2.A. POLLUTION PREVENTION CONTROLS.

THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, INSTALLATION, IMPLEMENTATION, AND MAINTENANCE OF EFFECTIVE POLLUTION PREVENTION MEASURES TO ACCOMPLISH ALL OF THE FOLLOWING:

2.A.1 MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. TREAT WASH WATERS A TREATMENT SYSTEM SO THAT THEY DO NOT CAUSE OR CONTRIBUTE OR VIOLATIONS OF WATER QUALITY STANDARDS.

2.A.2 MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE SITE TO PRECIPITATION AND TO STORMWATER.

2.A.3 MINIMIZE THE DISCHARGE OF POLLUTANTS FROM SPILLS AND LEAKS; AND IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE PROCEDURES.

2.A.4 CONTROL WASTES, SUCH AS DISCARDED MATERIALS, CHEMICALS, LITTER, AND SANITARY WASTE. IN ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL, AND FEDERAL REGULATIONS.

2.A.5 LIMIT THE APPLICATION, GENERATION, AND MIGRATION OF TOXIC SUBSTANCES; AND PROPERLY STORE AND DISPOSE OF TOXIC MATERIALS.

2.B EROSION AND SEDIMENT CONTROLS.

THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, INSTALLATION, IMPLEMENTATION, AND MAINTENANCE OF APPROPRIATE EROSION AND SEDIMENT CONTROLS TO ACCOMPLISH ALL OF THE FOLLOWING

2.B.1 CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE SOIL EROSION.

2.B.2 CONTROL STORMWATER PEAK DISCHARGE RATES AND VOLUME TO AVOID EROSION AT VEGETATED AREAS WITHIN PROJECT LIMITS.

2.B.3 MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING THE CONSTRUCTION ACTIVITY. EROSION AND SEDIMENT CONTROLS. SHALL PROVIDE FOR THE DESIGN, INSTALLATION, AND MAINTENANCE OF APPROPRIATE EROSION AND SEDIMENT.

2.B.5 MINIMIZE THE DISTURBANCE OF STEEP SLOPES. MINIMIZE SEDIMENT DISCHARGES FROM THE SITE. THE DESIGN, INSTALLATION, AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS SHALL ADDRESS FACTORS SUCH AS THE AMOUNT, FREQUENCY, INTENSITY, AND DURATION OF PRECIPITATION; THE NATURE OF THE RESULTING STORMWATER; AND SOIL CHARACTERISTICS, INCLUDING THE RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT ON THE SITE.

2.B.6 MINIMIZE OFF-SITE VEHICLE TRACKING OF SEDIMENTS ONTO PAVED SURFACES AND THE GENERATION OF DUST. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.

2.B.7 WHERE FEASIBLE, DIRECT STORMWATER TO VEGETATED AREAS TO INCREASE SEDIMENT REMOVAL TO PROVIDE AND MAINTAIN NATURAL BUFFERS ADJACENT TO SURFACE WATERS OF THE STATE.

2.B.8 MINIMIZE SOIL COMPACTION AND PRESERVE TOPSOIL.

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DATE	DESCRIPTION	DATE	DESCRIPTION				
						STORMWATER POLLUTION PREVENTION PLAN	SW-1B

WERNER REINEFELD, P.E.
P.E. LICENSE NUMBER 63042
WSP USA, 7650 CORPORATE CENTER DRIVE,
SUITE 300, MIAMI, FLORIDA 33126
CERTIFICATE OF AUTHORIZATION 01462

2.C SEDIMENT BASINS

2.C.1 STRAW WATTLES ARE REQUIRED FOR ALL SIDESLOPE AND DOWNSLOPE BOUNDARIES OF THE CONSTRUCTION AREA. CONTRACTOR TO INSTALL STRAW WATTLES PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

2.D.MAINTENANCE REQUIREMENTS:

2.D.1 THE PLAN SHALL INCLUDE A DESCRIPTION OF PROCEDURES THAT WILL BE FOLLOWED TO ENSURE THE TIMELY MAINTENANCE OF VEGETATION, EROSION AND SEDIMENT CONTROLS, STORMWATER MANAGEMENT PRACTICES, AND OTHER PROTECTIVE MEASURES AND BMPs SO THEY WILL REMAIN IN GOOD AND EFFECTIVE OPERATING CONDITION.

2.D.2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE REPAIRS OF EROSION & SEDIMENT CONTROL/SWPPP DEVICES PER THE FDOT STANDARD SPECIFICATION FOR ROAD & BRIDGE CONSTRUCTION (CURRENT EDITION). THE MAINTENANCE OF THESE DEVICES SHALL OCCUR UNTIL THE COUNTY'S REPRESENTATIVE ESTABLISHES AREAS AS PERMANENTLY STABILIZED. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AFTER COMPLETION OF THE PROJECT.

2.D.3 EROSION & SEDIMENT CONTROL MEASURES SHALL BE ADEQUATELY MAINTAINED BY THE CONTRACTOR TO PERFORM THE INTENDED FUNCTION DURING CONSTRUCTION OF THE PROJECT.

2.D.4 THE CONTRACTOR SHALL MONITOR ALL POLLUTION CONTROL DEVICES TO ENSURE SUFFICIENT CONVEYANCE OF STORMWATER RUNOFF & TO ELIMINATE SOIL EROSION DURING CONSTRUCTION.

2.D.5 CONTRACTOR SHALL COVER LOADED TRUCKS WITH TARPAULINS.

2.D.6 CONTRACTOR SHALL REMOVE EXCESS DIRT FROM WORK SITE ON A DAILY BASIS.

2.D.7 BUILT-UP SEDIMENT WILL BE REMOVED FROM THE STRAW WATTLES WHENEVER FLOW IS IMPEDED.

2.D.8 AT NO TIME SHOULD SEDIMENTS BE ALLOWED TO ACCUMULATE WITHIN DRAINAGE STRUCTURE & CONVEYANCE PIPELINES. STRUCTURES & PIPELINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATIONS SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.

2.D.9 STOCKPILE OF EARTH & OTHER CONSTRUCTION RELATED MATERIAL SHALL BE PROTECTED AGAINST ACCIDENTAL TRANSPORTATION FROM PROJECT SITE BY WIND & WATER FLOW.

2.D.10 ALL STORM DRAINAGE SYSTEMS MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT WATER CANNOT GAIN ENTRY INTO THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHER WISE TREATED TO REMOVE SEDIMENTS.

3.0 OTHER CONTROLS

THE FOLLOWING NON-STORMWATER DISCHARGES ARE PROHIBITED:

3.A WASTEWATER FROM WASHOUT OF CONCRETE

3.B WASTEWATER FROM WASHOUT CONCRETE AND CLEANOUTS OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS.

3.C FUELS, OILS, OR OTHER POLLUTANTS ASSOCIATED WITH VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE.

3.D SOAPS OR SOLVENTS USED IN VEHICLE OR EQUIPMENT WASHING OR

CLEANING.

3.E THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, SUCH OCCURRENCES MUST BE REPORTED IMMEDIATELY TO THE ENGINEER AND OWNERS REPRESENTATIVE.

4.0 INSPECTIONS.

AN INSPECTOR QUALIFIED IN ACCORDANCE WITH PART 11.12. OF DEP DOCUMENT EFFECTIVE FEBRUARY 17, 2009, INCORPORATED BY REFERENCE IN PARAGRAPH F.A.C., (PROVIDED BY THE OWNER OR OPERATOR) SHALL PERFORM ALL REQUIRED SITE INSPECTIONS. SITE INSPECTIONS MUST INCLUDE ALL POINTS OF DISCHARGE INTO SURFACE WATERS OR AN MS4; DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED; AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; STRUCTURAL CONTROLS; AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. SITE INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. INSPECTIONS SHALL INCLUDE:

4.A DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE STORMWATER SYSTEM. THE STORMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS OR POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL AND STORMWATER TREATMENT MEASURES ARE EFFECTIVE IN PREVENTING OR MINIMIZING THE DISCHARGE OF POLLUTANTS, INCLUDING RETAINING SEDIMENT ONSITE PURSUANT TO RULE 62-40.432, F.A.C. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.

4.B BASED ON THE RESULTS OF THE INSPECTION, ALL MAINTENANCE OPERATIONS NEEDED TO ASSURE PROPER OPERATION OF ALL CONTROLS, BMPs, PRACTICES, OR MEASURES IDENTIFIED IN THE STORMWATER POLLUTION PREVENTION PLAN SHALL BE DONE IN A TIMELY MANNER, BUT IN NO CASE LATER THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTION. IF NEEDED, POLLUTION PREVENTION CONTROLS, BMPs, AND MEASURES IDENTIFIED IN THE PLAN SHALL BE REVISED AS NECESSARY TO ASSURE PROPER OPERATION OF ALL CONTROLS, BMPs, PRACTICES, OR MEASURES IDENTIFIED IN THE STORMWATER POLLUTION PREVENTION PLAN. SUCH REVISIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE PLAN WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.

4.C A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION; NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION; THE DATE(S) OF THE INSPECTION; RAINFALL DATA; MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORMWATER POLLUTION PREVENTION PLAN; AND ACTIONS TAKEN IN ACCORDANCE WITH THE REQUIREMENTS OF THIS PERMIT, SHALL BE MADE AND RETAINED AS PART OF THE STORMWATER POLLUTION PREVENTION PLAN. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, WHERE A REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IN COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES.

5.0 WETLANDS

5.A CONTRACTOR SHALL INSTALL AND MAINTAIN STRAW WATTLES ON NEARBY WETLANDS FOR THE DURATION OF THE CONSTRUCTION ACTIVITIES.

5.B CONTRACTOR SHALL STABILIZE NEWLY CONSTRUCTED SLOPES ON ADJACENT WETLANDS TO PREVENT EROSION AND TURBIDITY, AND ALSO STABILIZE DISTURBED AREAS IMMEDIATELY AFTER FINAL GRADE HAS BEEN ATTAINED OR DURING INTERIM PERIODS OF INACTIVITY RESULTING FROM CONSTRUCTION DELAYS.

6.0 PERMITS

CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN NPDES STORMWATER PERMIT COVERAGE BY SUBMITTING THE FOLLOWING TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP).

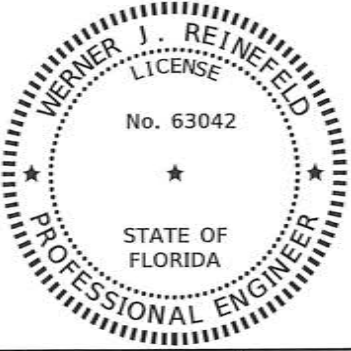
6.A PREPARE AND SUBMIT A CGP NOTICE OF INTENT (NOI) (DEP DEVELOP AND SUBMIT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP). IN PART, THE PLAN MUST INCLUDE THE FOLLOWING:
A SITE EVALUATION OF HOW AND WHERE POLLUTANTS MAY BE MOBILIZED BY STORMWATER.


- A SITE PLAN FOR MANAGING STORMWATER RUNOFF.
- IDENTIFICATION OF APPROPRIATE EROSION AND SEDIMENT
- CONTROLS AND STORMWATER BEST MANAGEMENT PRACTICES
- (BMPs) TO REDUCE EROSION, SEDIMENTATION, AND STORMWATER POLLUTION.
- A MAINTENANCE AND INSPECTION SCHEDULE.
- A RECORDKEEPING PROCESS.
- IDENTIFICATION OF STORMWATER EXIT AREAS.

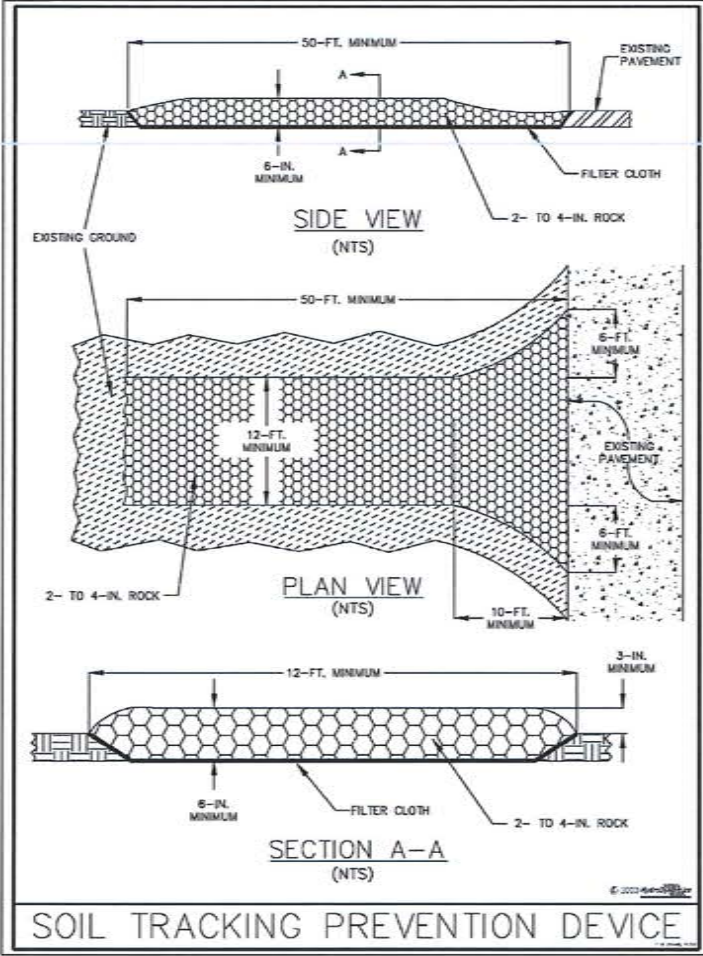
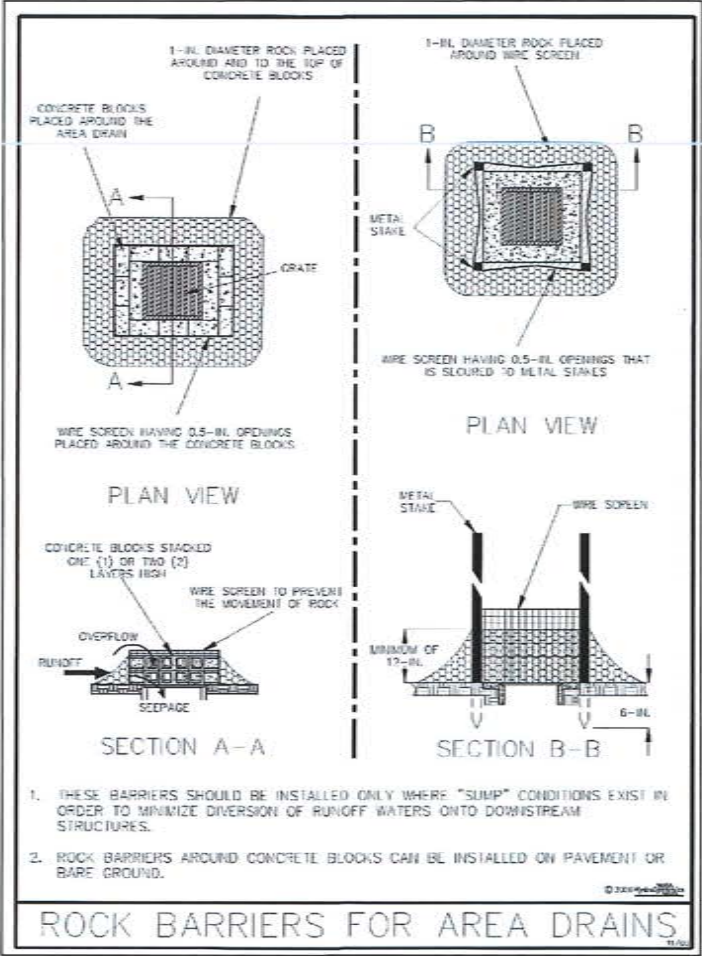
6.B PREPARE AND SUBMIT A NOTICE OF TERMINATION (NOT) (DEP FORM 62-621.300(6) IN ORDER TO DISCONTINUE PERMIT COVERAGE. ALSO AN NOT MAY BE SUBMITTED ONLY WHEN THE SITE MEETS THE ELIGIBILITY REQUIREMENTS FOR TERMINATION SPECIFIED IN THE CGP.

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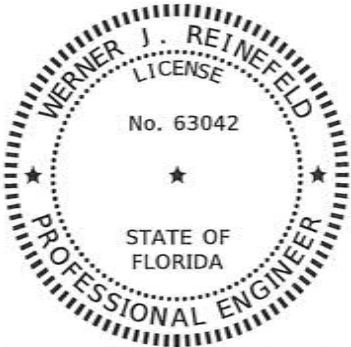


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DATE	DESCRIPTION	DATE	DESCRIPTION					
							STORMWATER POLLUTION PREVENTION PLAN	SW-2B



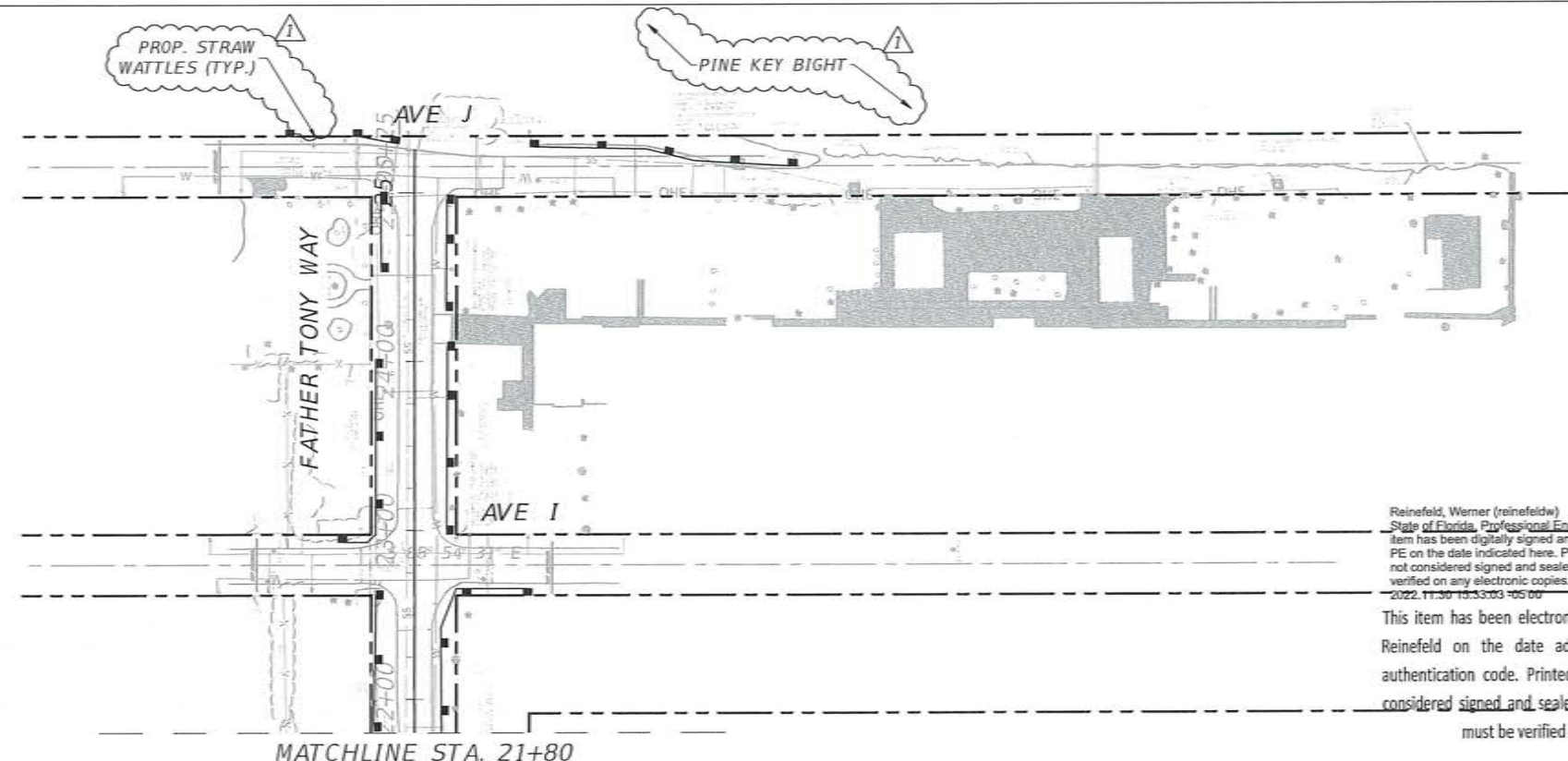
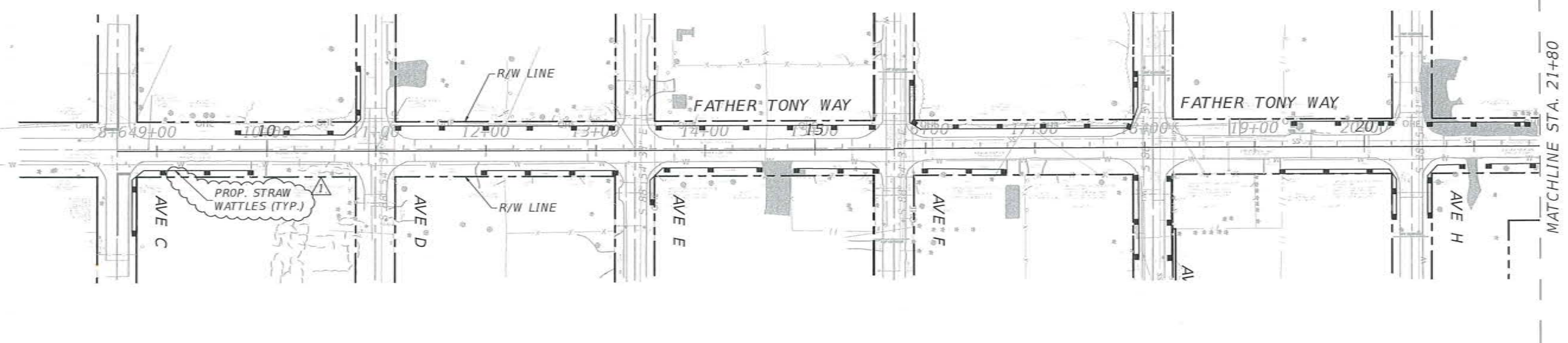
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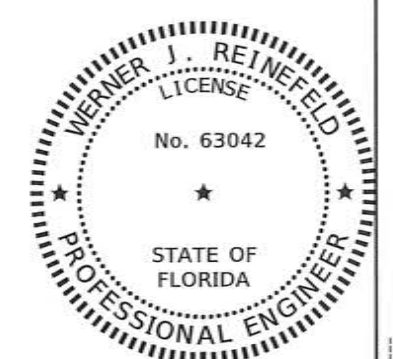
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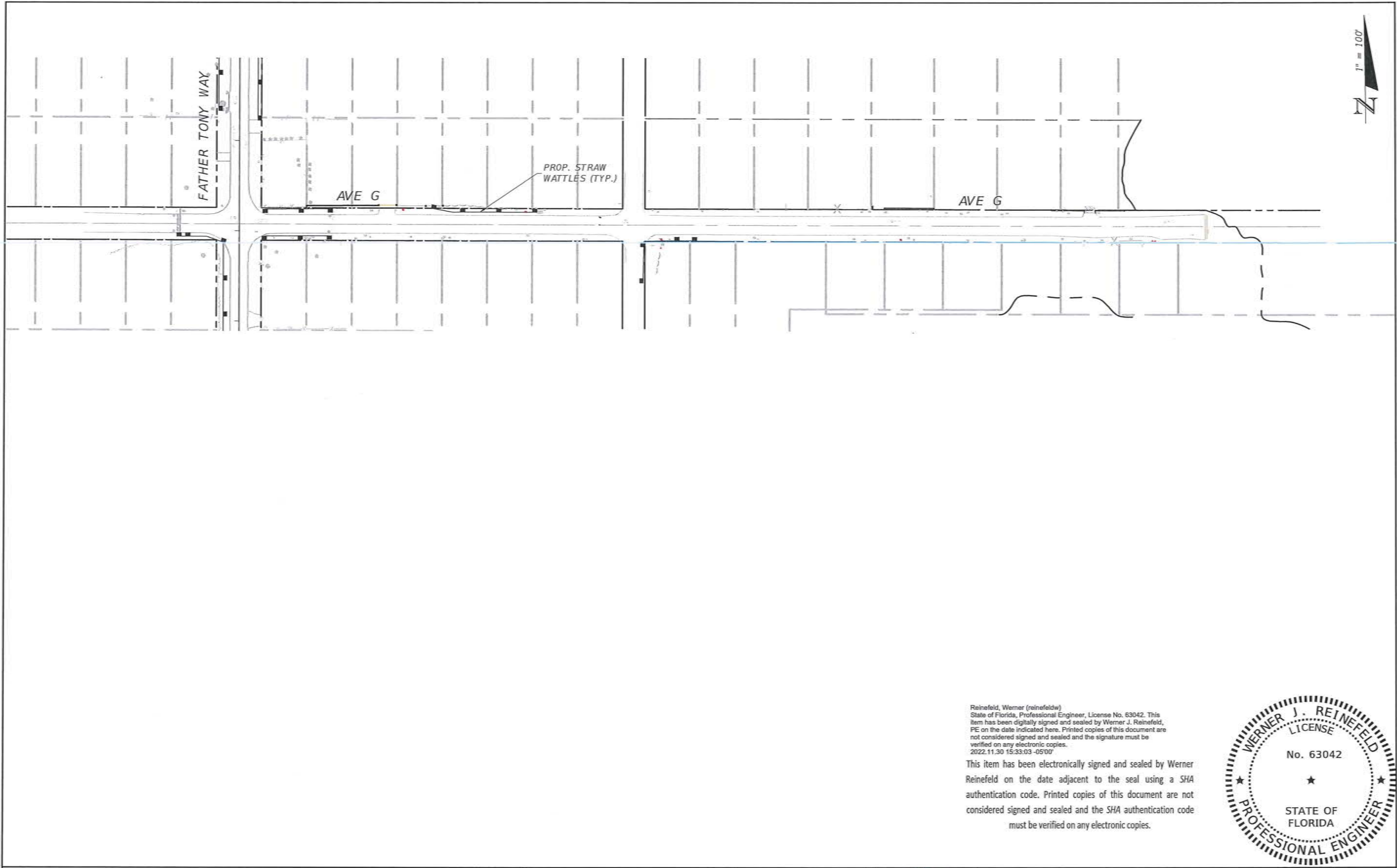
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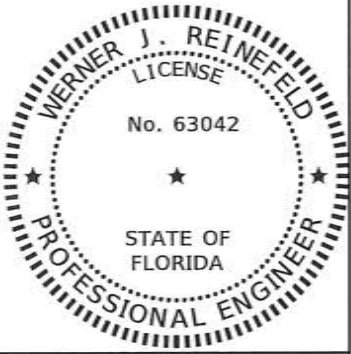


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DATE	DESCRIPTION	DATE	DESCRIPTION						
03/12/20	RAI 02/27/20 FROM SFWD: ADD LABELS								



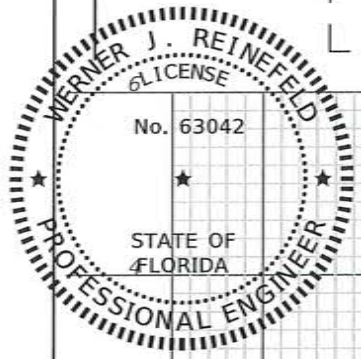
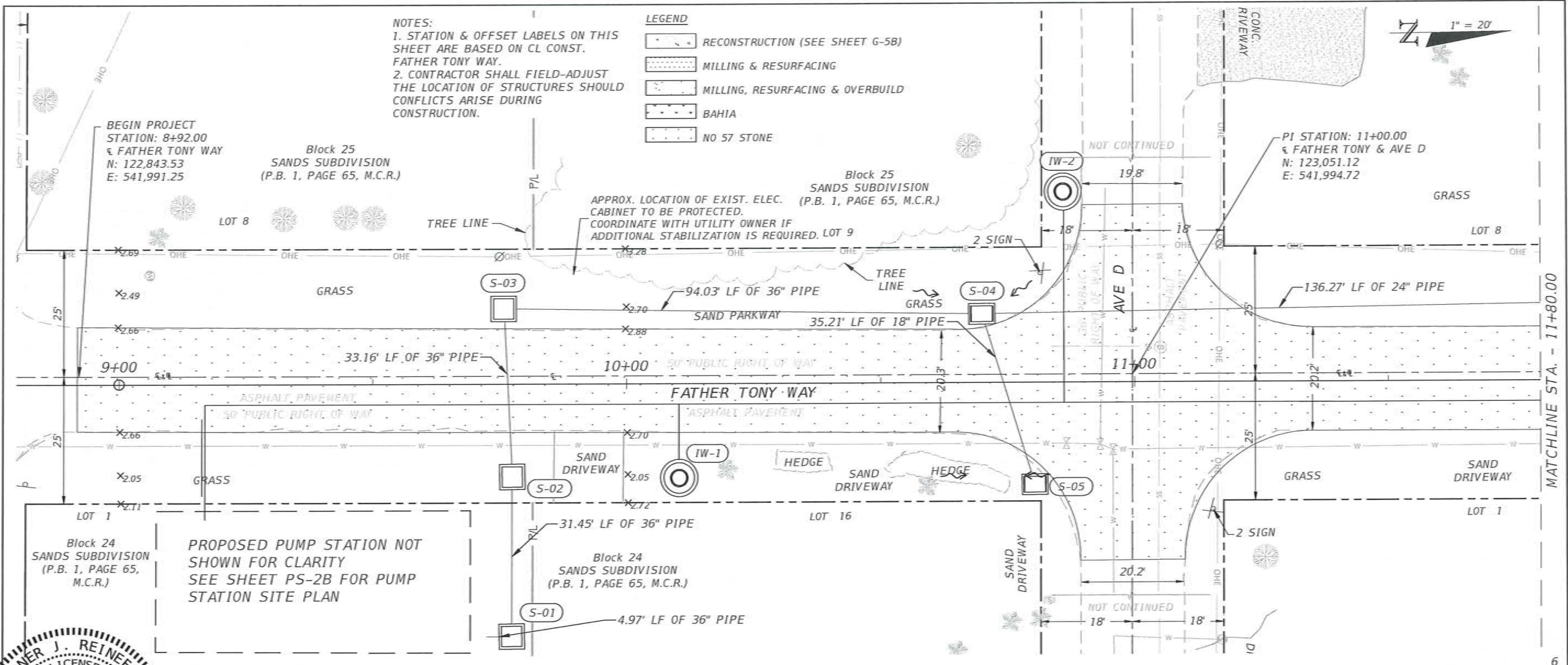
Reinefeld, Werner (reinefeldw)
State of Florida, Professional Engineer, License No. 63042. This
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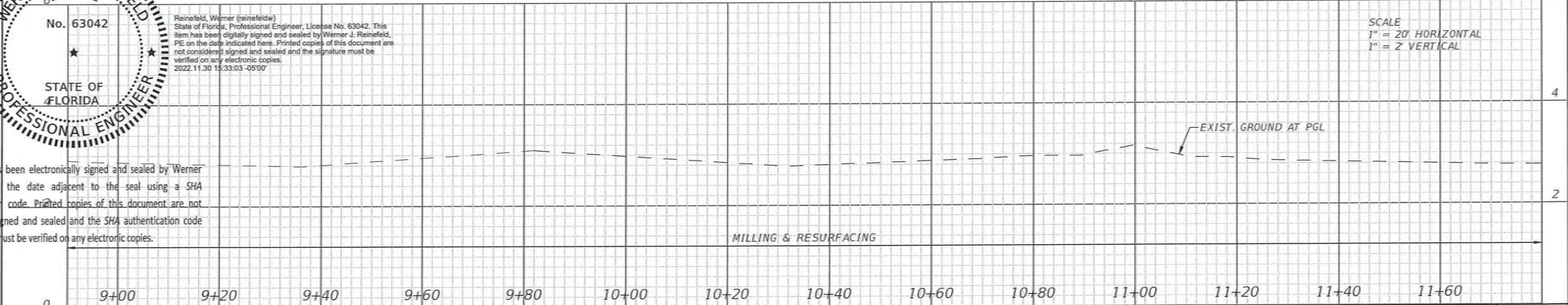
REVISIONS				WSP 	SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT SANDS SUBDIVISION - BIG PINE KEY MONROE COUNTY - DEPARTMENT OF ENGINEERING	SHEET NO. SW-5B
DATE	DESCRIPTION	DATE	DESCRIPTION			
03/12/20	RAI 02/27/20 FROM SFWMD: ADD LABELS				STORMWATER POLLUTION PREVENTION PLAN	

WERNER REINEFELD, P.E.
P.E. LICENSE NUMBER 63042
WSP USA, 7650 CORPORATE CENTER DRIVE,
SUITE 300, MIAMI, FLORIDA 33126
CERTIFICATE OF AUTHORIZATION 01462



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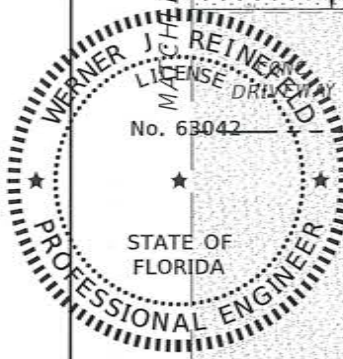
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REVISIONS				WERNER REINEFELD, P.E. P.E. LICENSE NUMBER 63042 WSP USA, 7650 CORPORATE CENTER DRIVE, SUITE 300, MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 01462	wsp	SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT SANDS SUBDIVISION - BIG PINE KEY MONROE COUNTY - DEPARTMENT OF ENGINEERING	ROADWAY PLAN & PROFILE (FATHER TONY WAY)	SHEET NO. RD-1B
DATE	DESCRIPTION	DATE	DESCRIPTION					

N 1"=20'

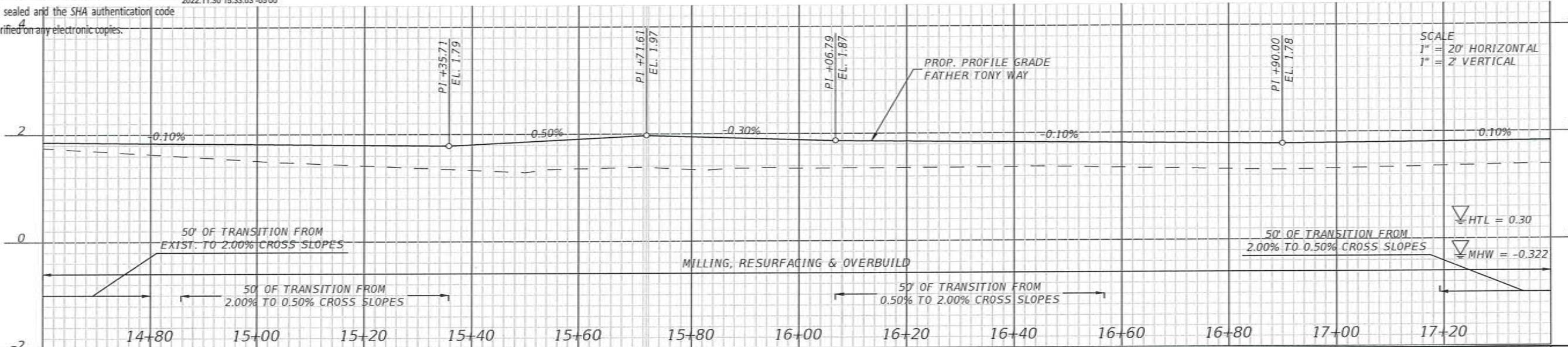
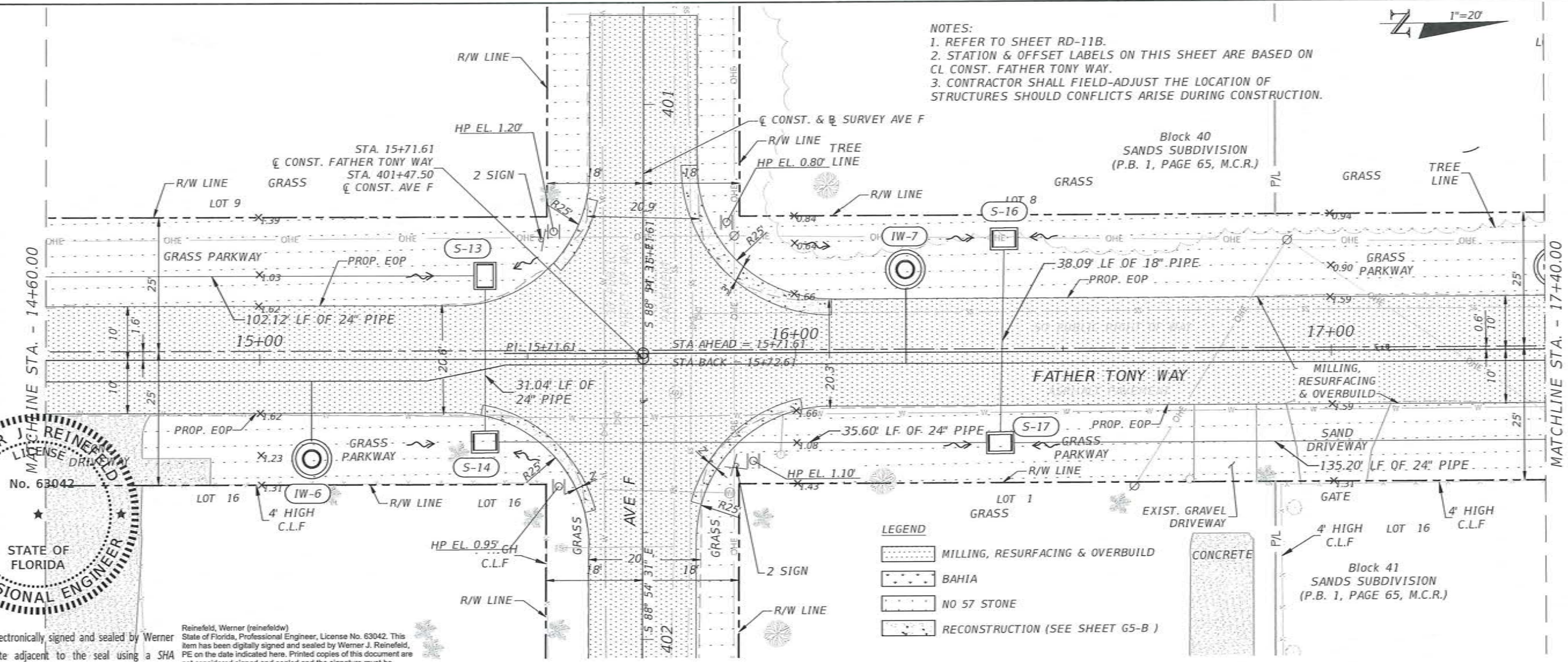
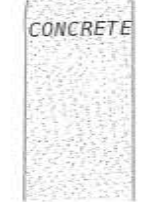
- NOTES:
1. REFER TO SHEET RD-11B.
 2. STATION & OFFSET LABELS ON THIS SHEET ARE BASED ON CL CONST. FATHER TONY WAY.
 3. CONTRACTOR SHALL FIELD-ADJUST THE LOCATION OF STRUCTURES SHOULD CONFLICTS ARISE DURING CONSTRUCTION.



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- LEGEND
- MILLING, RESURFACING & OVERBUILD
 - BAHIA
 - NO 57 STONE
 - RECONSTRUCTION (SEE SHEET G5-B)



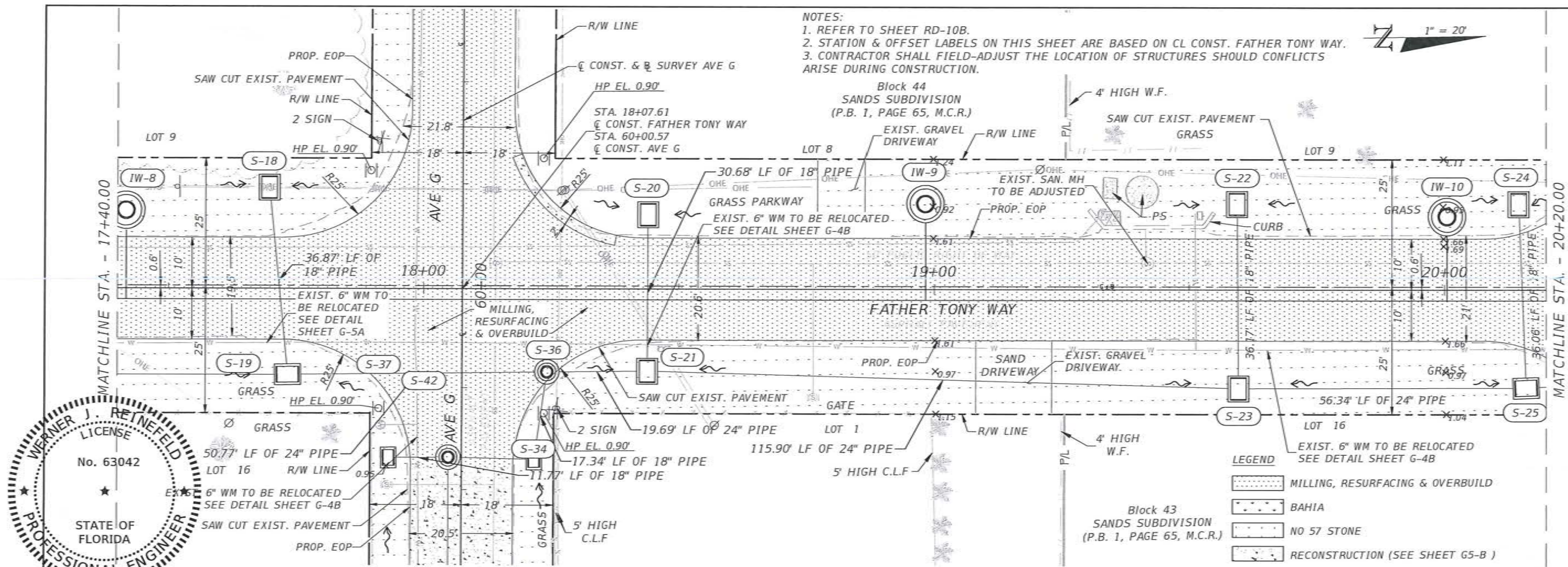
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WERNER REINEFELD, P.E.
P.E. LICENSE NUMBER 63042
WSP USA, 7650 CORPORATE CENTER DRIVE,
SUITE 300, MIAMI, FLORIDA 33126
CERTIFICATE OF AUTHORIZATION 01462



SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT
SANDS SUBDIVISION - BIG PINE KEY
MONROE COUNTY - DEPARTMENT OF ENGINEERING
ROADWAY PLAN & PROFILE (FATHER TONY WAY)

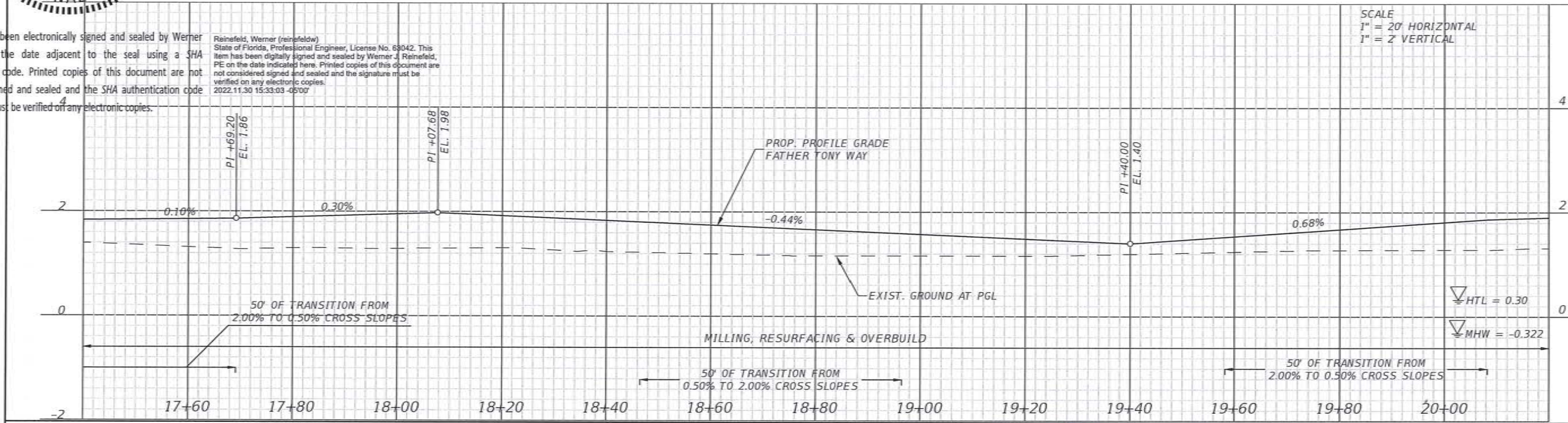
SHEET NO.
RD-3B



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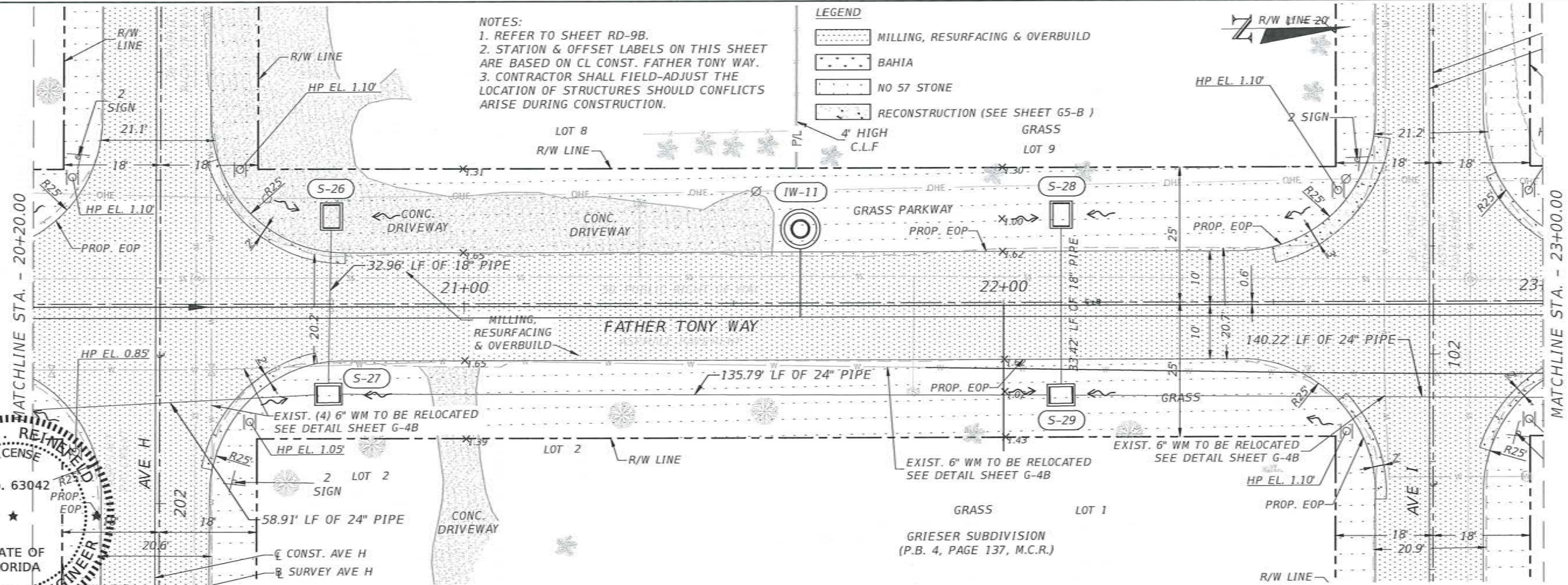
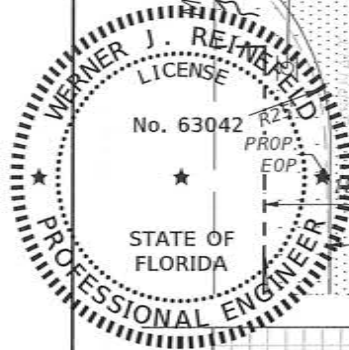
SCALE
1" = 20' HORIZONTAL
1" = 2' VERTICAL



REVISIONS				WERNER REINEFELD, P.E. P.E. LICENSE NUMBER 63042 WSP USA, 7650 CORPORATE CENTER DRIVE, SUITE 300, MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 01462			SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT SANDS SUBDIVISION - BIG PINE KEY MONROE COUNTY - DEPARTMENT OF ENGINEERING	ROADWAY PLAN & PROFILE (FATHER TONY WAY)	SHEET NO. RD-4B
DATE	DESCRIPTION	DATE	DESCRIPTION						

NOTES:
 1. REFER TO SHEET RD-9B.
 2. STATION & OFFSET LABELS ON THIS SHEET ARE BASED ON CL CONST. FATHER TONY WAY.
 3. CONTRACTOR SHALL FIELD-ADJUST THE LOCATION OF STRUCTURES SHOULD CONFLICTS ARISE DURING CONSTRUCTION.

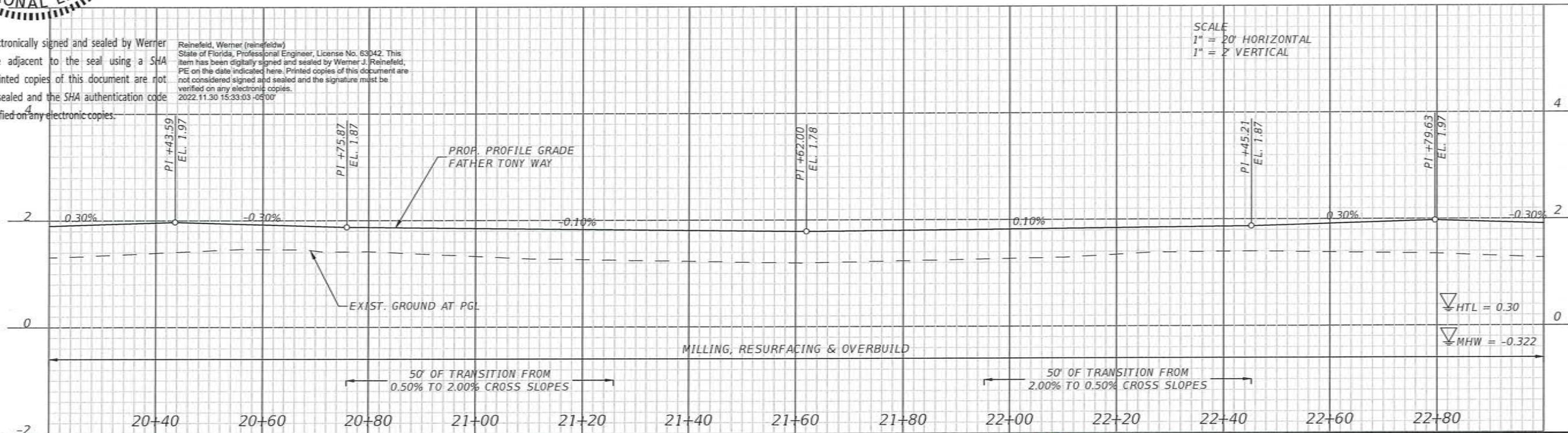
- LEGEND
- MILLING, RESURFACING & OVERBUILD
 - BAHIA
 - NO 57 STONE
 - RECONSTRUCTION (SEE SHEET G5-B)
 - 4' HIGH C.L.F.
 - GRASS



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SCALE
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 1" = 2' VERTICAL



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 P.E. LICENSE NUMBER 63042
 WSP USA, 7650 CORPORATE CENTER DRIVE,
 SUITE 300, MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 01462

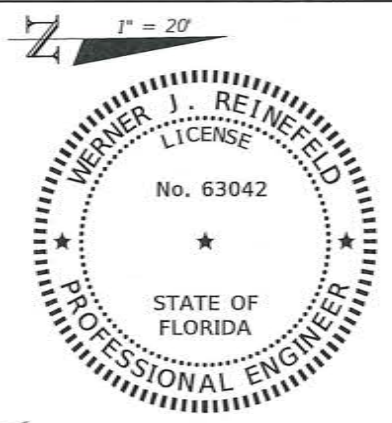
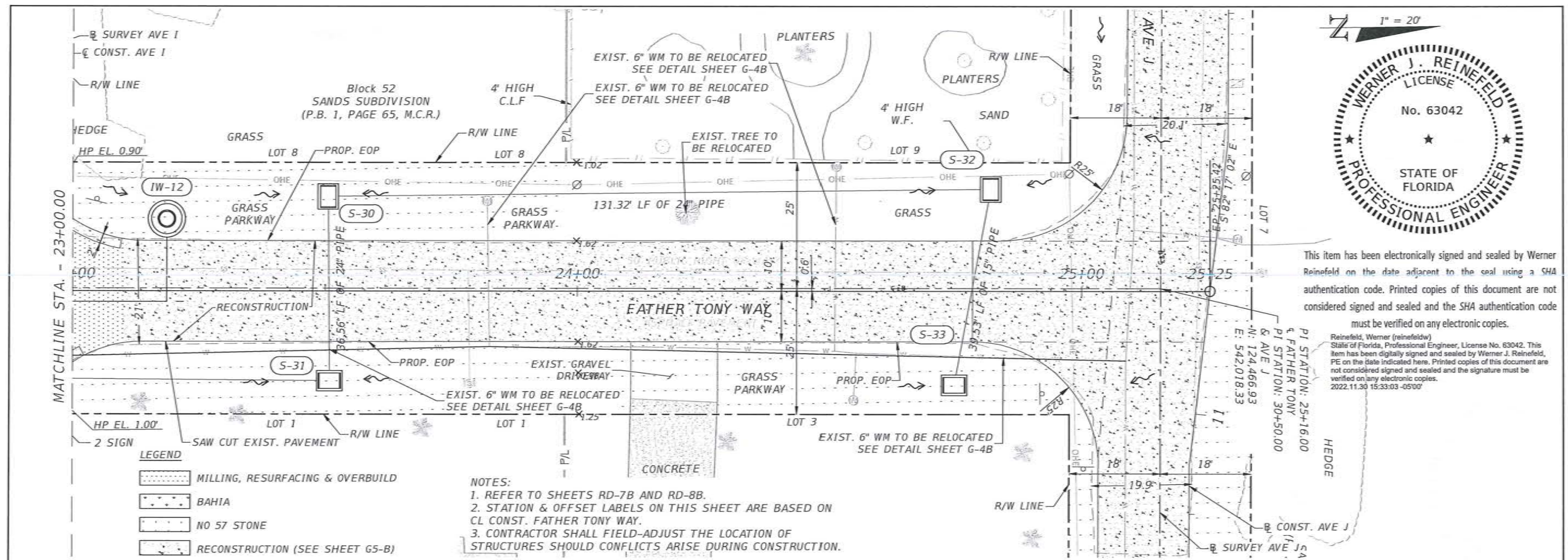


SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT
 SANDS SUBDIVISION - BIG PINE KEY
 MONROE COUNTY - DEPARTMENT OF ENGINEERING

ROADWAY PLAN & PROFILE (FATHER TONY WAY)

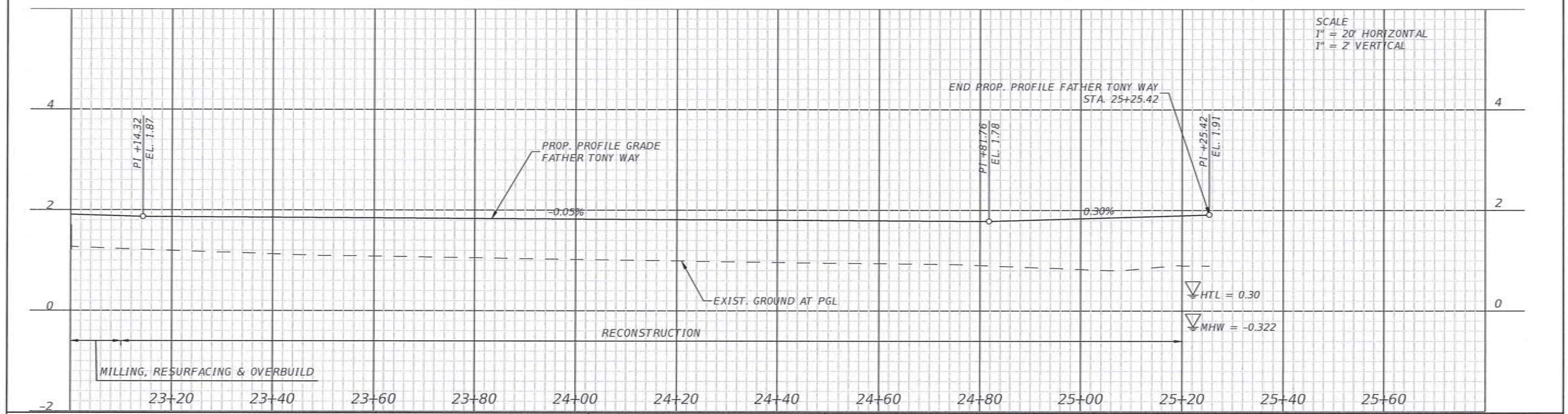
SHEET NO.

RD-5B



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2022.11.30 15:33:03 -05'00'

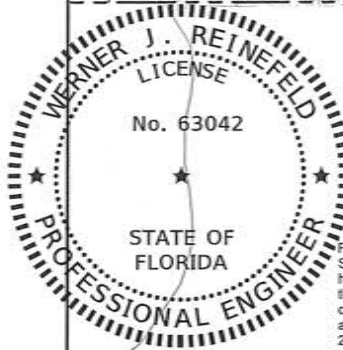
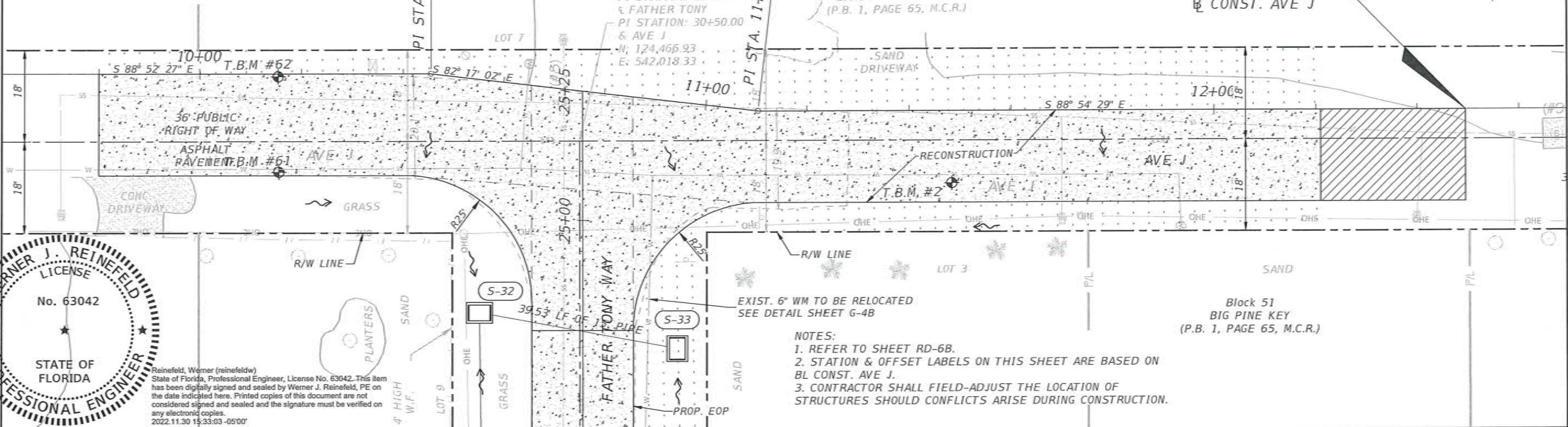


REVISIONS				WERNER REINEFELD, P.E. P.E. LICENSE NUMBER 63042 WSP USA, 7650 CORPORATE CENTER DRIVE, SUITE 300, MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 01462			SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT SANDS SUBDIVISION - BIG PINE KEY MONROE COUNTY - DEPARTMENT OF ENGINEERING	ROADWAY PLAN & PROFILE (FATHER TONY WAY)	SHEET NO. RD-6B
DATE	DESCRIPTION	DATE	DESCRIPTION						

LEGEND

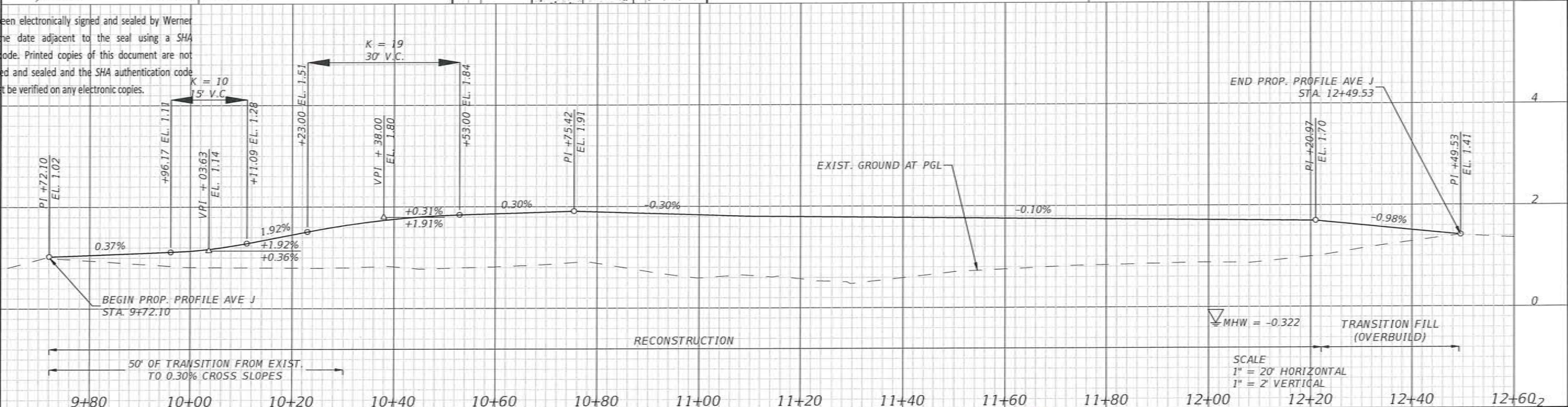
- RECONSTRUCTION
- MILLING, RESURFACING & OVERBUILD
- BAHIA
- NO 57 STONE
- TRANSITION FILL (OVERBUILD)

1" = 20'



Reinefeld, Werner (reinefeldw)
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2022.11.30 15:33:03 -05'00'

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REVISIONS				DATE	DESCRIPTION
DATE	DESCRIPTION	DATE	DESCRIPTION		

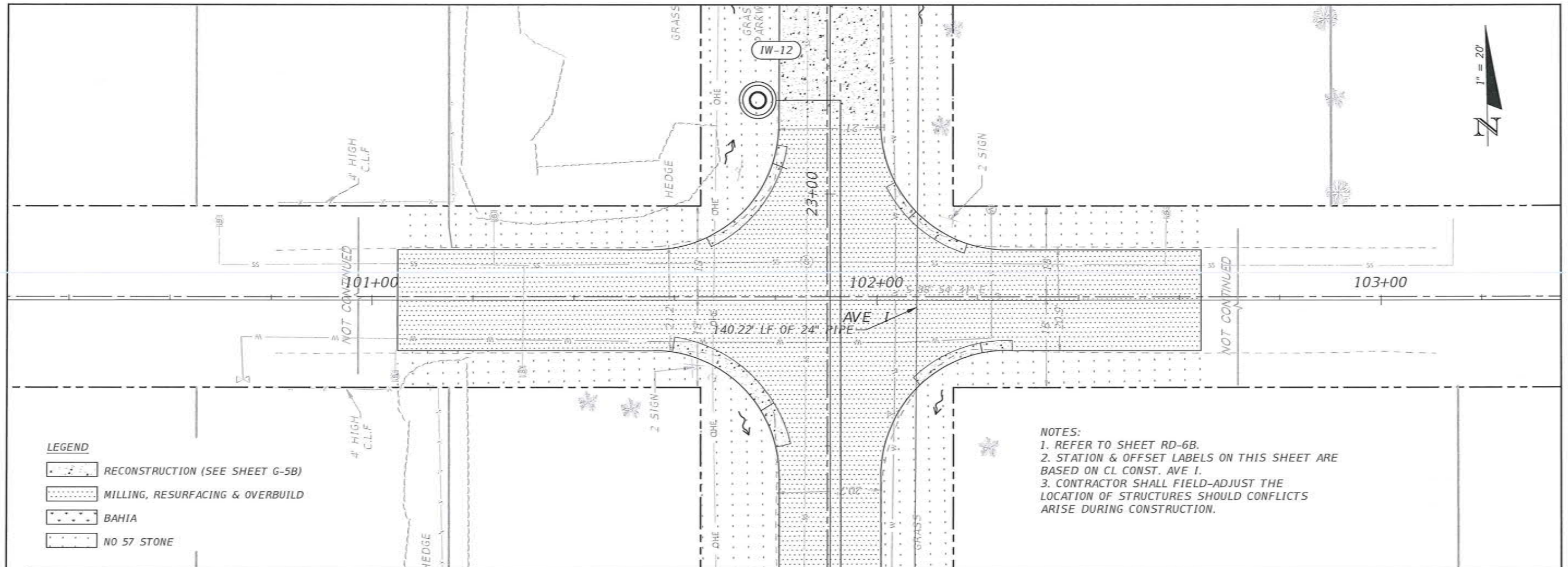
WERNER REINEFELD, P.E.
P.E. LICENSE NUMBER 63042
WSP USA, 7650 CORPORATE CENTER DRIVE,
SUITE 300, MIAMI, FLORIDA 33126
CERTIFICATE OF AUTHORIZATION 01462

WSP

SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT
SANDS SUBDIVISION - BIG PINE KEY
MONROE COUNTY - DEPARTMENT OF ENGINEERING

ROADWAY PLAN & PROFILE (AVE J)

SHEET NO.
RD-7B



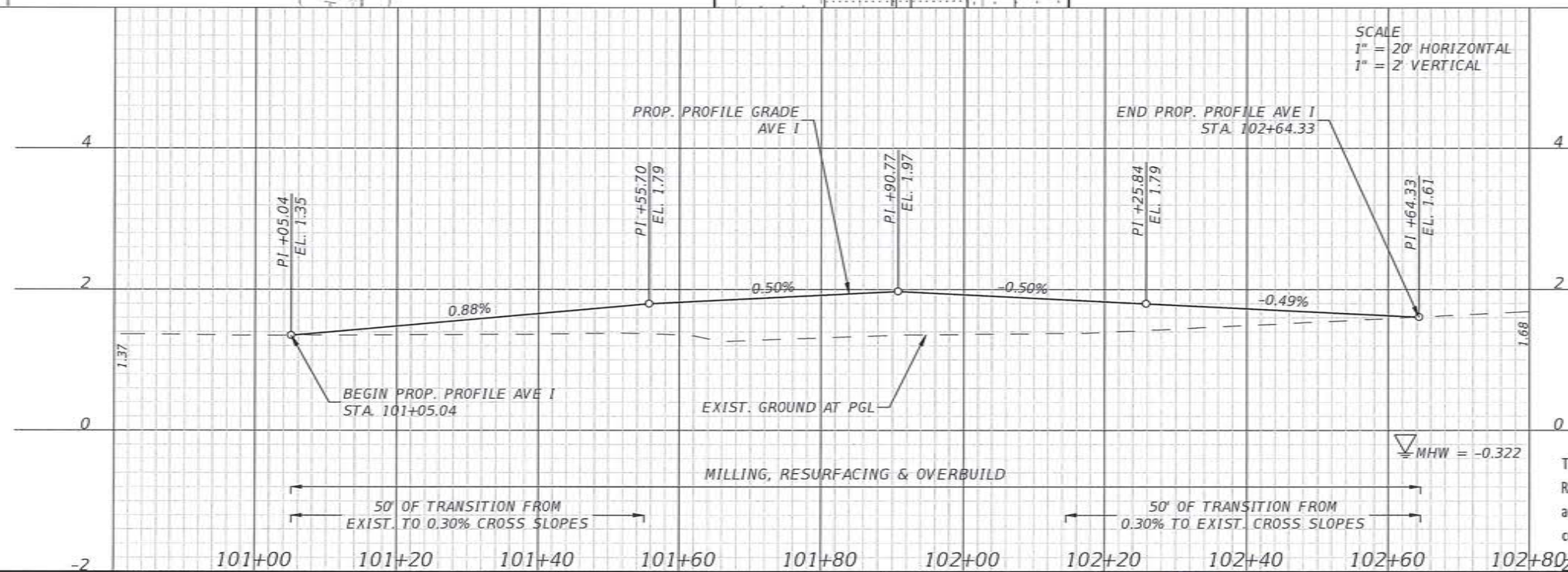
LEGEND

- RECONSTRUCTION (SEE SHEET G-5B)
- MILLING, RESURFACING & OVERBUILD
- BAHIA
- NO 57 STONE

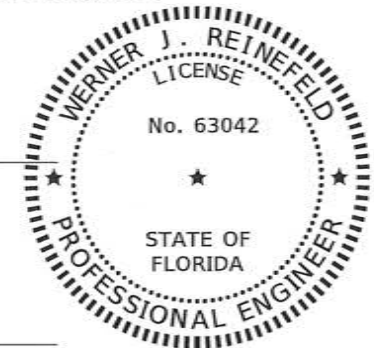
NOTES:

- REFER TO SHEET RD-6B.
- STATION & OFFSET LABELS ON THIS SHEET ARE BASED ON CL CONST. AVE I.
- CONTRACTOR SHALL FIELD-ADJUST THE LOCATION OF STRUCTURES SHOULD CONFLICTS ARISE DURING CONSTRUCTION.

SCALE
1" = 20' HORIZONTAL
1" = 2' VERTICAL



Reinefeld, Werner (reinefeldw)
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2022.11.30 15:33:03 -05'00'



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REVISIONS		DATE		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION		

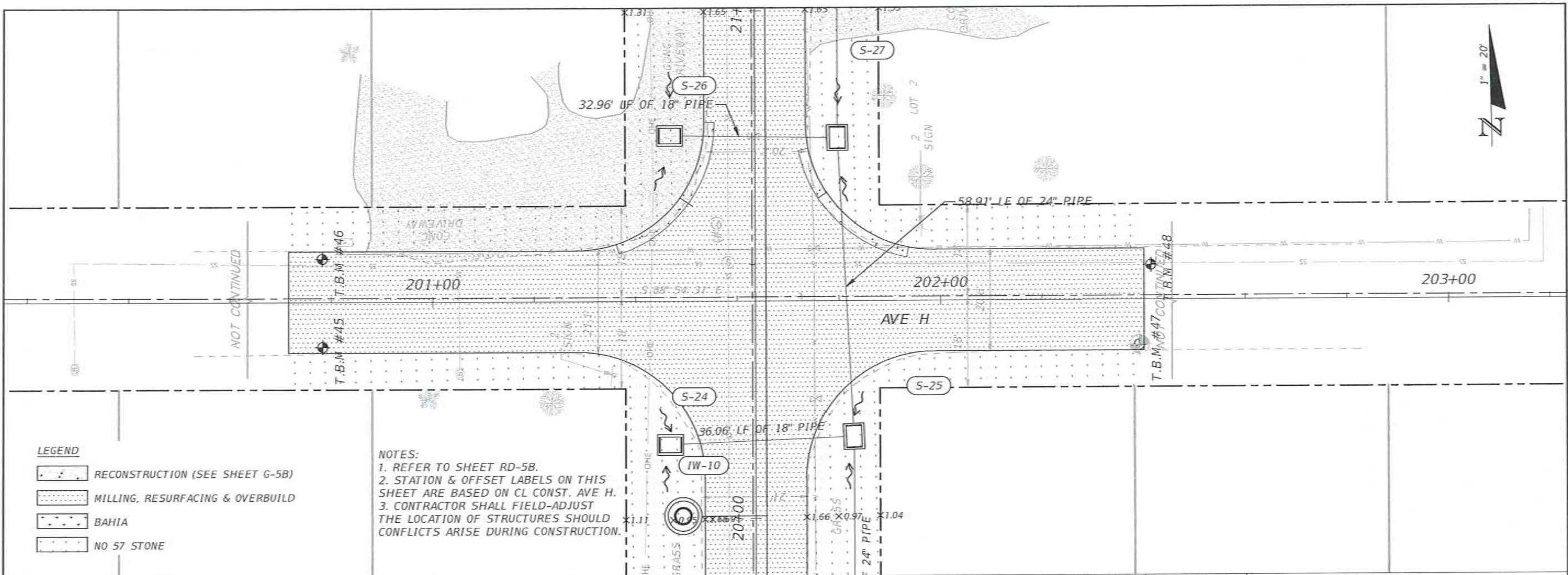
WERNER REINEFELD, P.E.
P.E. LICENSE NUMBER 63042
WSP USA, 7650 CORPORATE CENTER DRIVE,
SUITE 300, MIAMI, FLORIDA 33126
CERTIFICATE OF AUTHORIZATION 01462

wsp

SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT
SANDS SUBDIVISION - BIG PINE KEY
MONROE COUNTY - DEPARTMENT OF ENGINEERING

ROADWAY PLAN & PROFILE (AVE I)

SHEET NO.
RD-8B

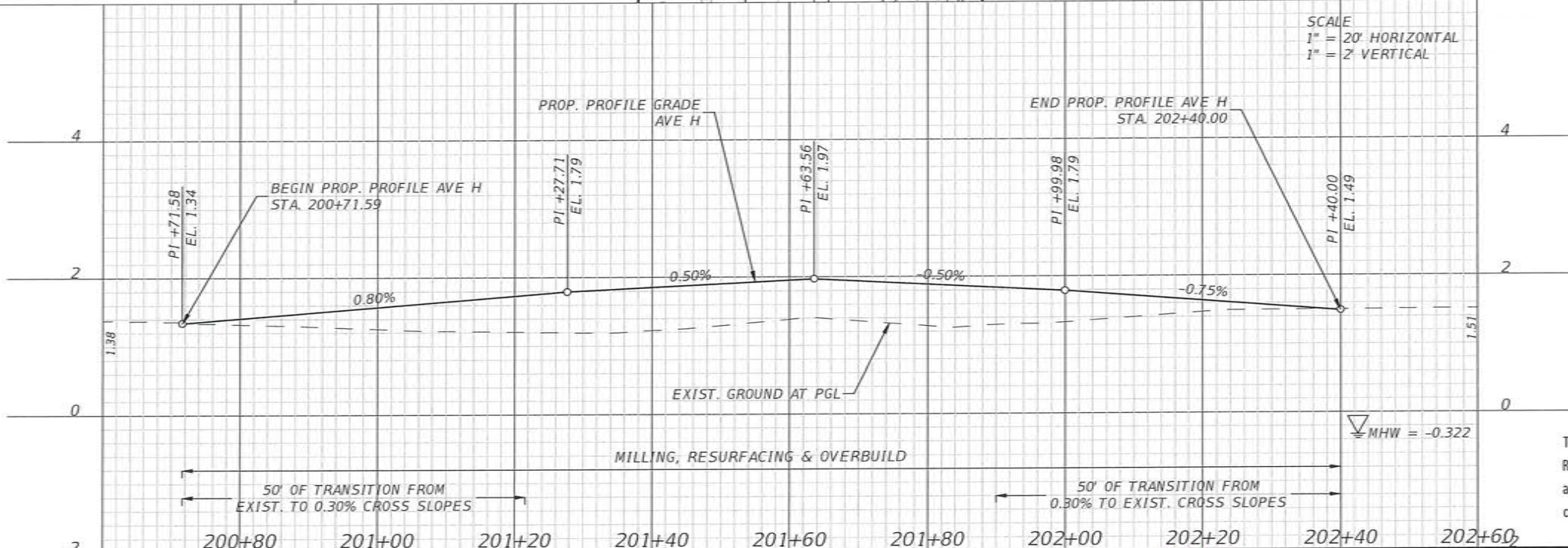


LEGEND

- RECONSTRUCTION (SEE SHEET G-5B)
- MILLING, RESURFACING & OVERBUILD
- BAHIA
- NO. 57 STONE

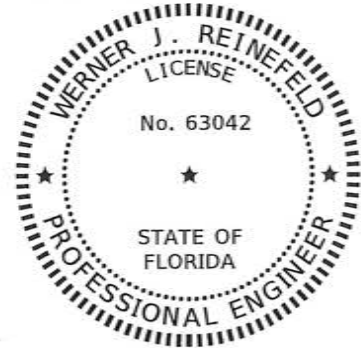
NOTES:

1. REFER TO SHEET RD-5B.
2. STATION & OFFSET LABELS ON THIS SHEET ARE BASED ON CL CONST. AVE H.
3. CONTRACTOR SHALL FIELD-ADJUST THE LOCATION OF STRUCTURES SHOULD CONFLICTS ARISE DURING CONSTRUCTION.





SCALE
1" = 20' HORIZONTAL
1" = 2' VERTICAL

Reinefeld, Werner (reinefeldw)
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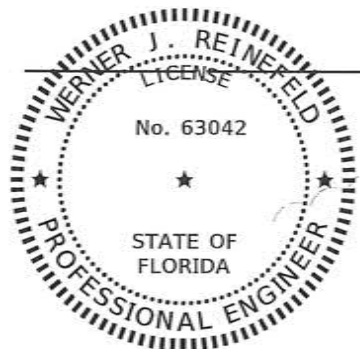
REVISIONS				<div>WERNER REINEFELD, P.E. P.E. LICENSE NUMBER 63042 WSP USA, 7650 CORPORATE CENTER DRIVE, SUITE 300, MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 01462</div>			<div>SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT SANDS SUBDIVISION - BIG PINE KEY MONROE COUNTY - DEPARTMENT OF ENGINEERING</div>	<div>ROADWAY PLAN & PROFILE (AVE H)</div>	<div>SHEET NO. RD-9B</div>
DATE	DESCRIPTION	DATE	DESCRIPTION						

LEGEND

- RECONSTRUCTION (SEE SHEET G-5B)
- MILLING, RESURFACING & OVERBUILD
- BAHIA
- NO 57 STONE

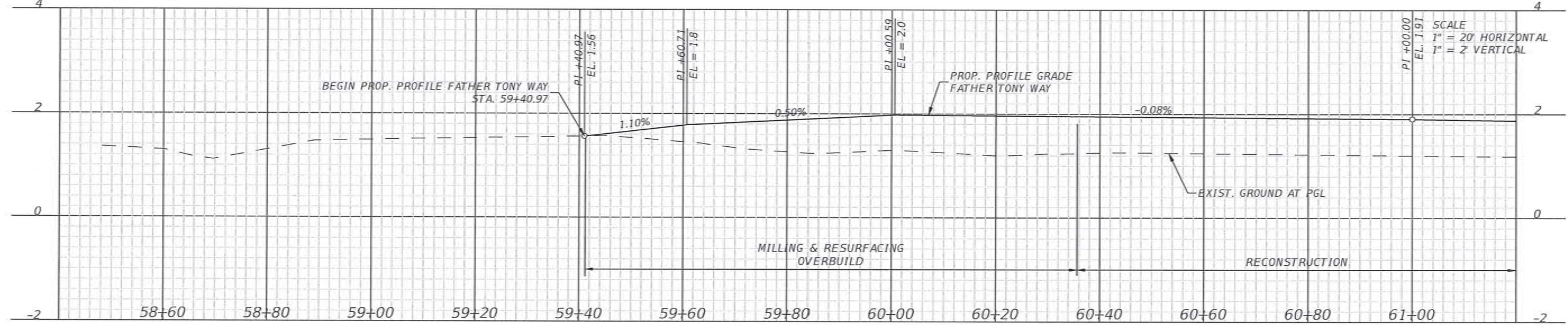
NOTES:

- REFER TO SHEET RD-3B.
- STATION & OFFSET LABELS ON THIS SHEET ARE BASED ON CL CONST. AVE G.
- CONTRACTOR SHALL FIELD-ADJUST THE LOCATION OF STRUCTURES SHOULD CONFLICTS ARISE DURING CONSTRUCTION.



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DATE	DESCRIPTION	DATE	DESCRIPTION				ROADWAY PLAN & PROFILE (AVE G)	RD-10B

Mena, Freddy

1/5/2022 6:07:44 AM

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LEGEND

- RECONSTRUCTION (SEE SHEET G-5B)
- MILLING, RESURFACING & OVERBUILD
- BAHIA
- NO 57 STONE

36' PUBLIC RIGHT OF WAY
ASPHALT PAVEMENT

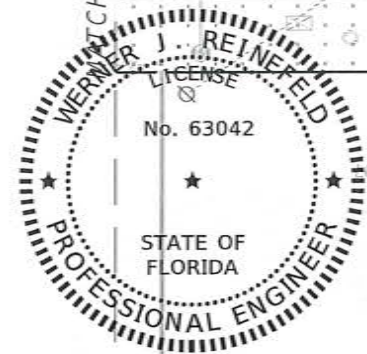
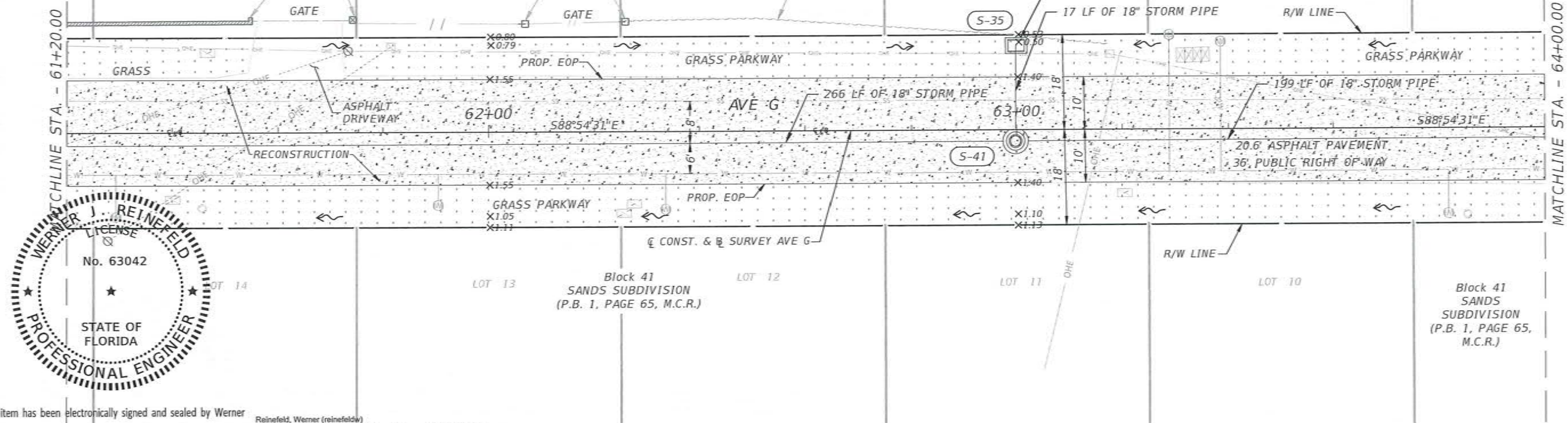
Block 43
SANDS SUBDIVISION
(P.B. 1, PAGE 65, M.C.R.)

- NOTES:
1. REFER TO SHEET RD-3B.
 2. STATION & OFFSET LABELS ON THIS SHEET ARE BASED ON CL CONST. AVE G.
 3. CONTRACTOR SHALL FIELD-ADJUST THE LOCATION OF STRUCTURES SHOULD CONFLICTS ARISE DURING CONSTRUCTION.

1:20

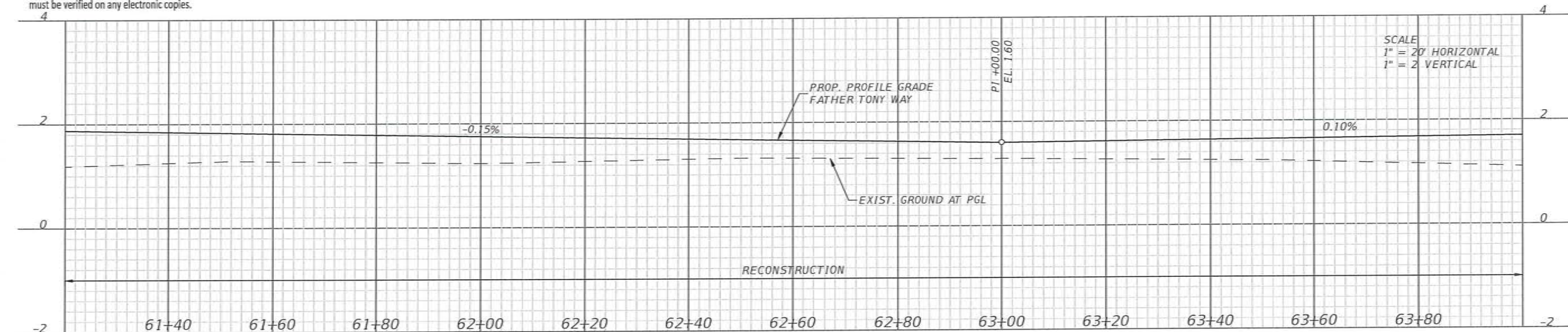
Block 43
SANDS
SUBDIVISION
(P.B. 1, PAGE 65,
M.C.R.)

Block 41
SANDS
SUBDIVISION
(P.B. 1, PAGE 65,
M.C.R.)



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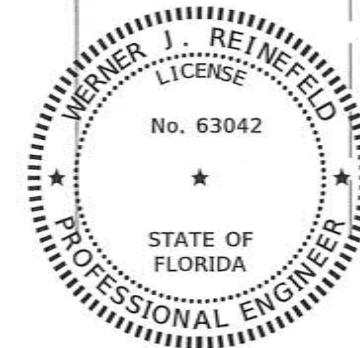
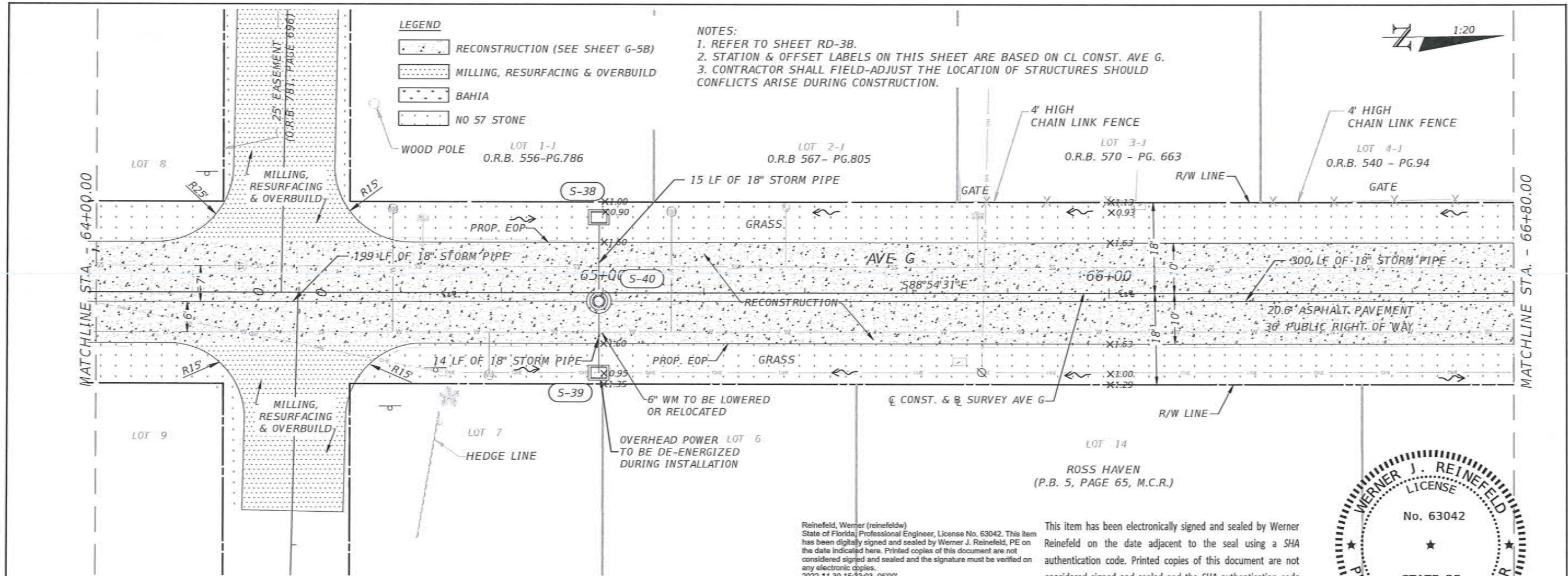


REVISIONS				WERNER REINEFELD, P.E. P.E. LICENSE NUMBER 63042 WSP USA, 7650 CORPORATE CENTER DRIVE, SUITE 300, MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 01462	wsp	SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT SANDS SUBDIVISION - BIG PINE KEY MONROE COUNTY - DEPARTMENT OF ENGINEERING	ROADWAY PLAN & PROFILE (AVE G)	SHEET NO. RD-11B
DATE	DESCRIPTION	DATE	DESCRIPTION					

Mena, Freddy

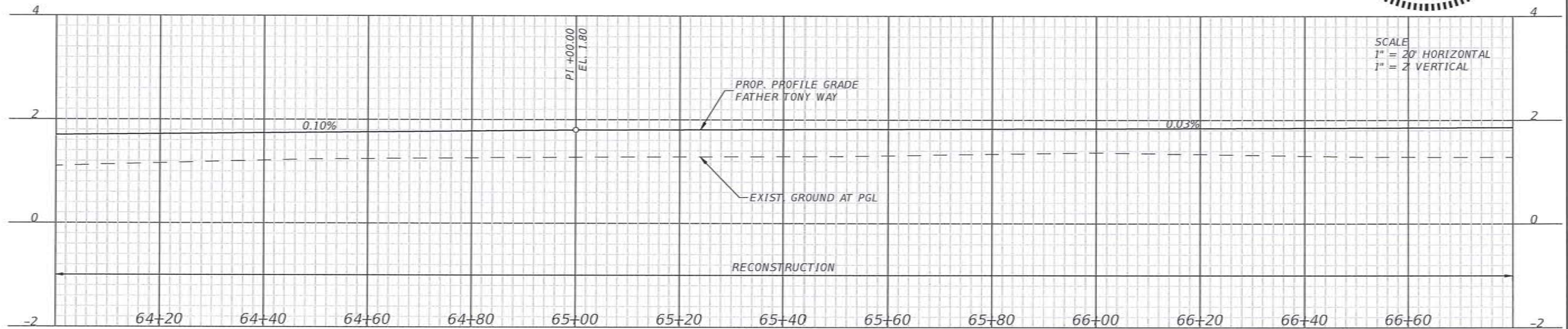
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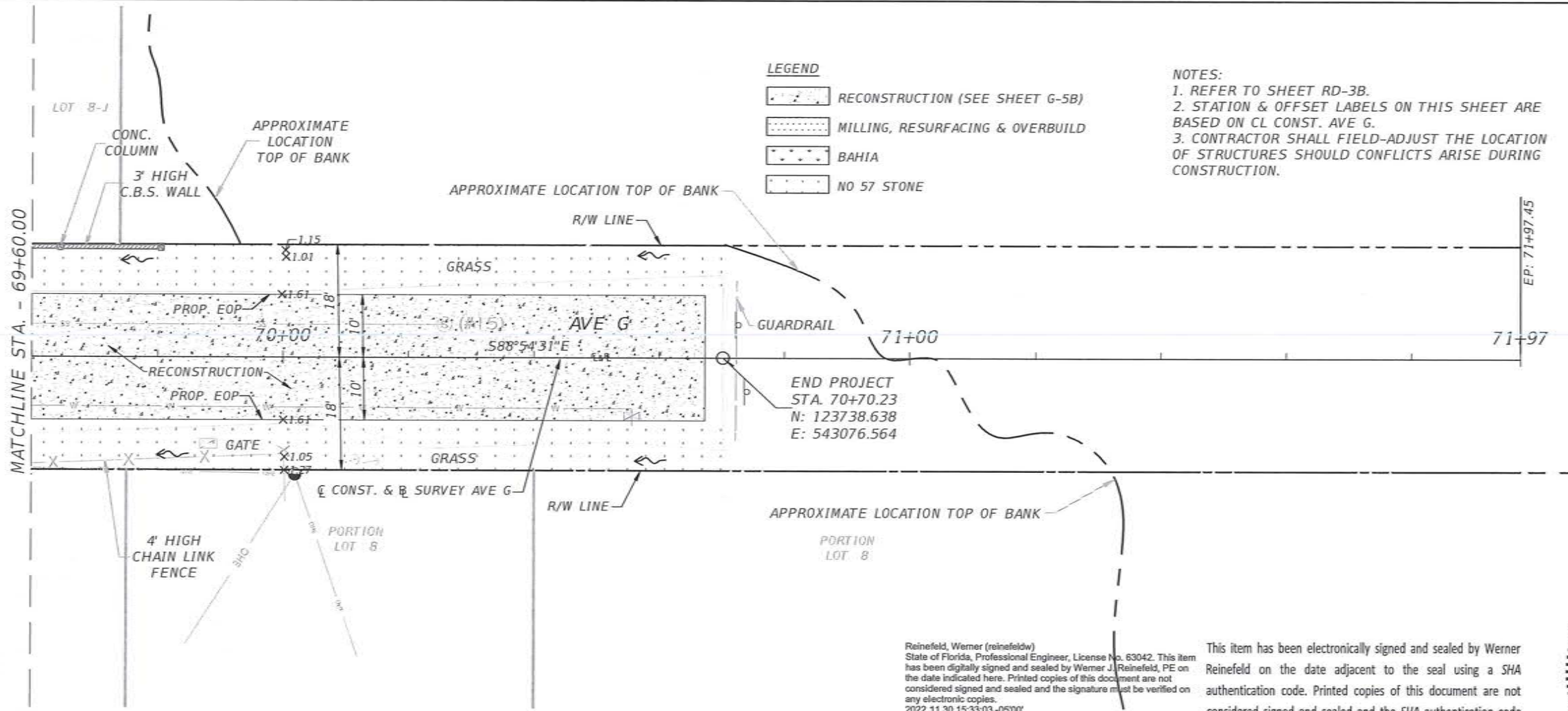


REVISIONS				WERNER REINEFELD, P.E. P.E. LICENSE NUMBER 63042 WSP USA, 7650 CORPORATE CENTER DRIVE, SUITE 300, MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 01462			SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT SANDS SUBDIVISION - BIG PINE KEY MONROE COUNTY - DEPARTMENT OF ENGINEERING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					RD-12B
							ROADWAY PLAN & PROFILE (AVE G)	



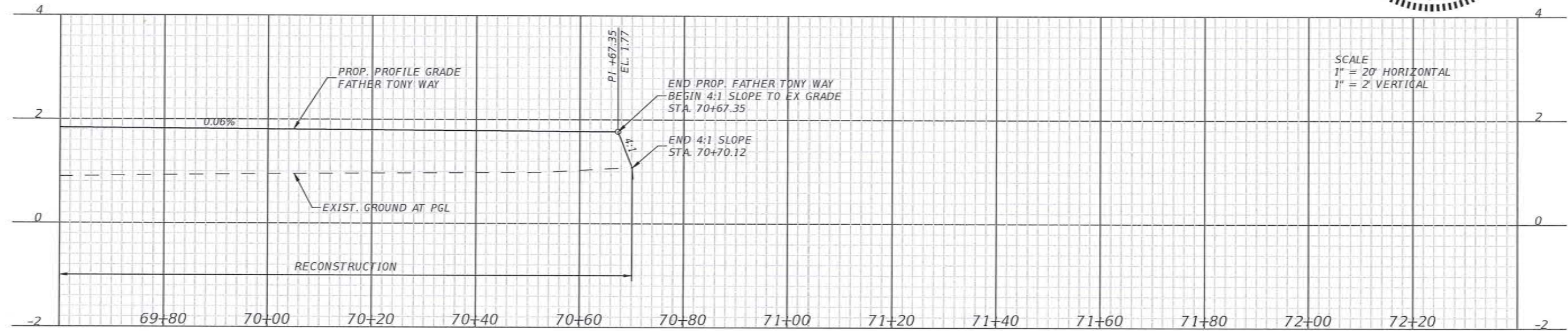
- LEGEND**
- RECONSTRUCTION (SEE SHEET G-5B)
 - MILLING, RESURFACING & OVERBUILD
 - BAHIA
 - NO 57 STONE

- NOTES:**
1. REFER TO SHEET RD-3B.
 2. STATION & OFFSET LABELS ON THIS SHEET ARE BASED ON CL CONST. AVE G.
 3. CONTRACTOR SHALL FIELD-ADJUST THE LOCATION OF STRUCTURES SHOULD CONFLICTS ARISE DURING CONSTRUCTION.





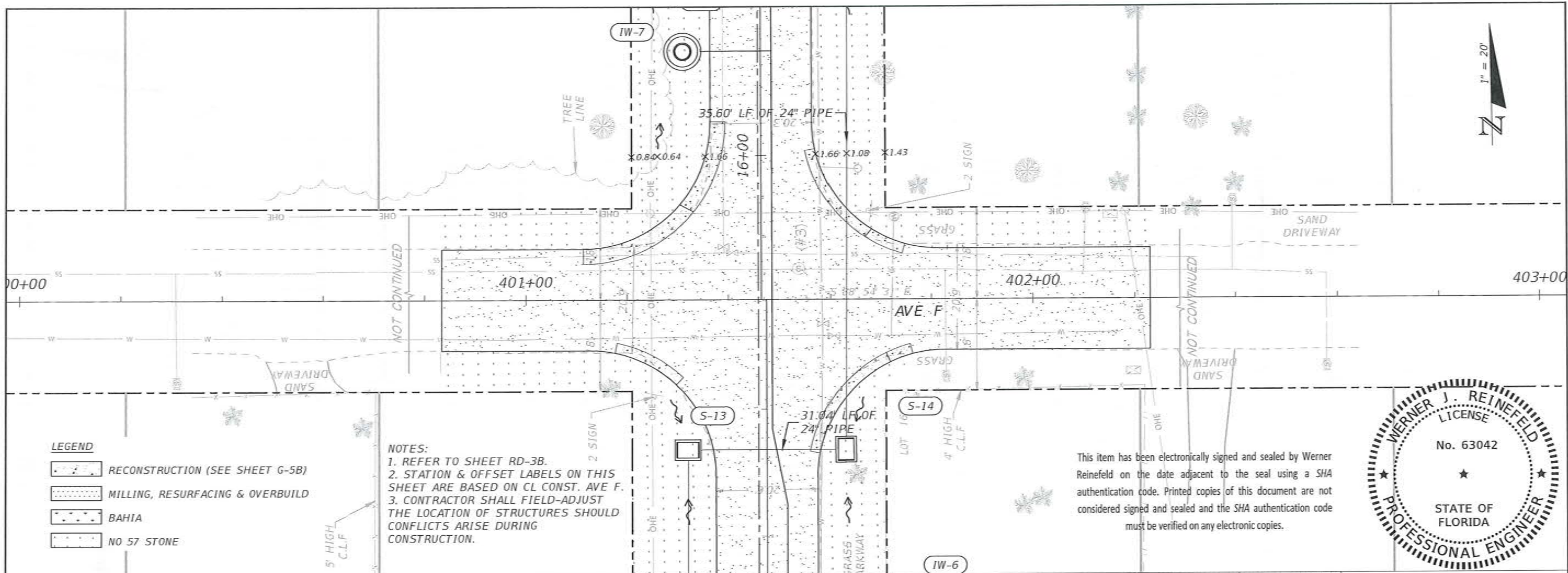
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State of Florida, Professional Engineer, License No. 63042. This item has been digitally signed and sealed by Werner J. Reinefeld, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
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SCALE
1" = 20' HORIZONTAL
1" = 2' VERTICAL

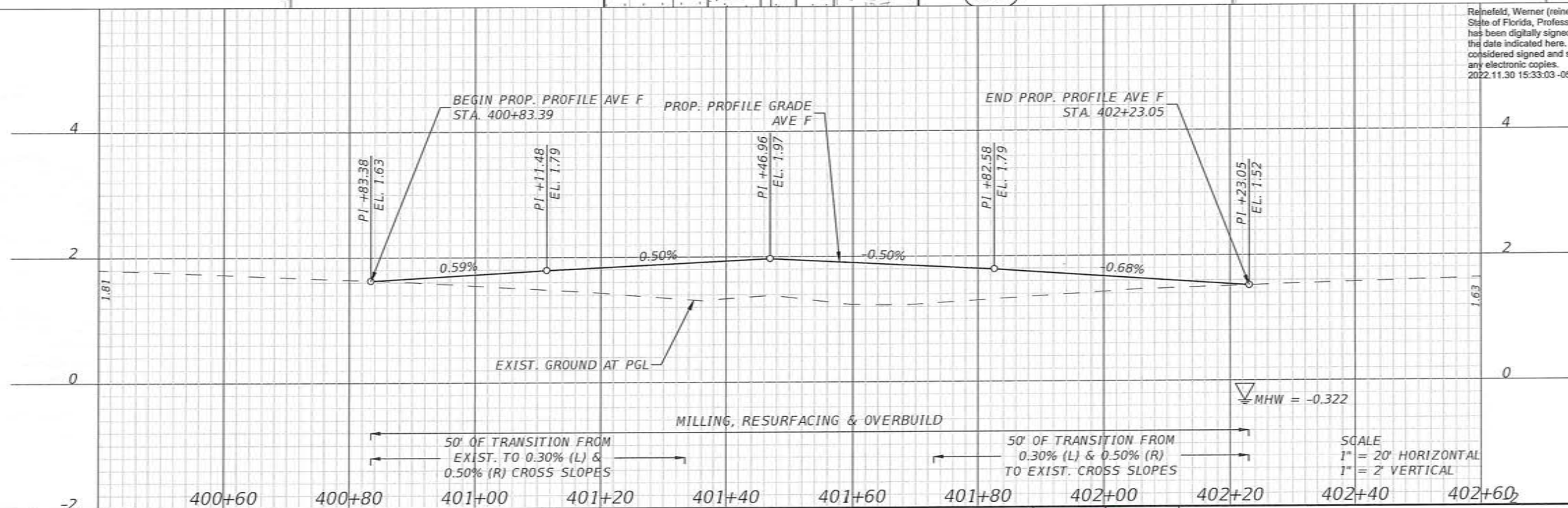
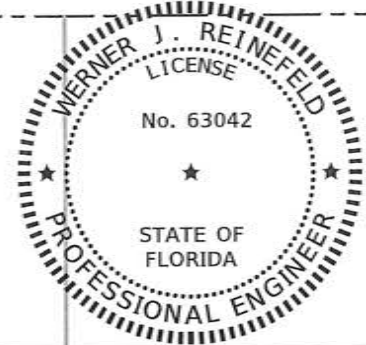
REVISIONS				WERNER REINEFELD, P.E. P.E. LICENSE NUMBER 63042 WSP USA, 7650 CORPORATE CENTER DRIVE, SUITE 300, MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 01462			SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT SANDS SUBDIVISION - BIG PINE KEY MONROE COUNTY - DEPARTMENT OF ENGINEERING	ROADWAY PLAN & PROFILE (AVE G)	SHEET NO. RD-14B
DATE	DESCRIPTION	DATE	DESCRIPTION						



- LEGEND**
- RECONSTRUCTION (SEE SHEET G-5B)
 - MILLING, RESURFACING & OVERBUILD
 - BAHIA
 - NO 57 STONE

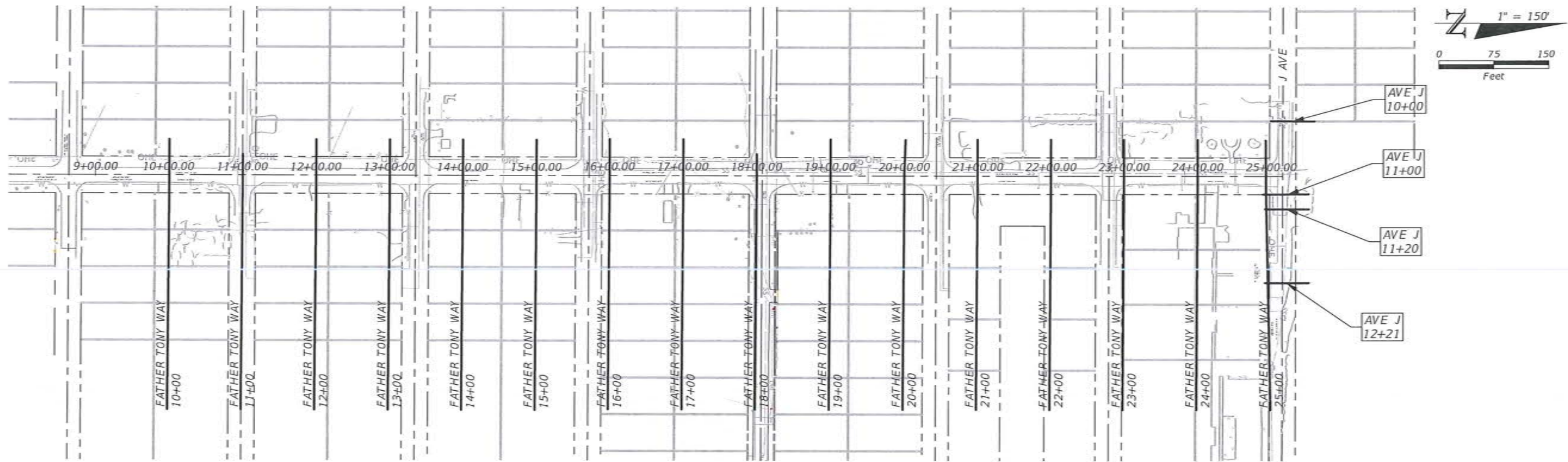
- NOTES:**
1. REFER TO SHEET RD-3B.
 2. STATION & OFFSET LABELS ON THIS SHEET ARE BASED ON CL CONST. AVE F.
 3. CONTRACTOR SHALL FIELD-ADJUST THE LOCATION OF STRUCTURES SHOULD CONFLICTS ARISE DURING CONSTRUCTION.

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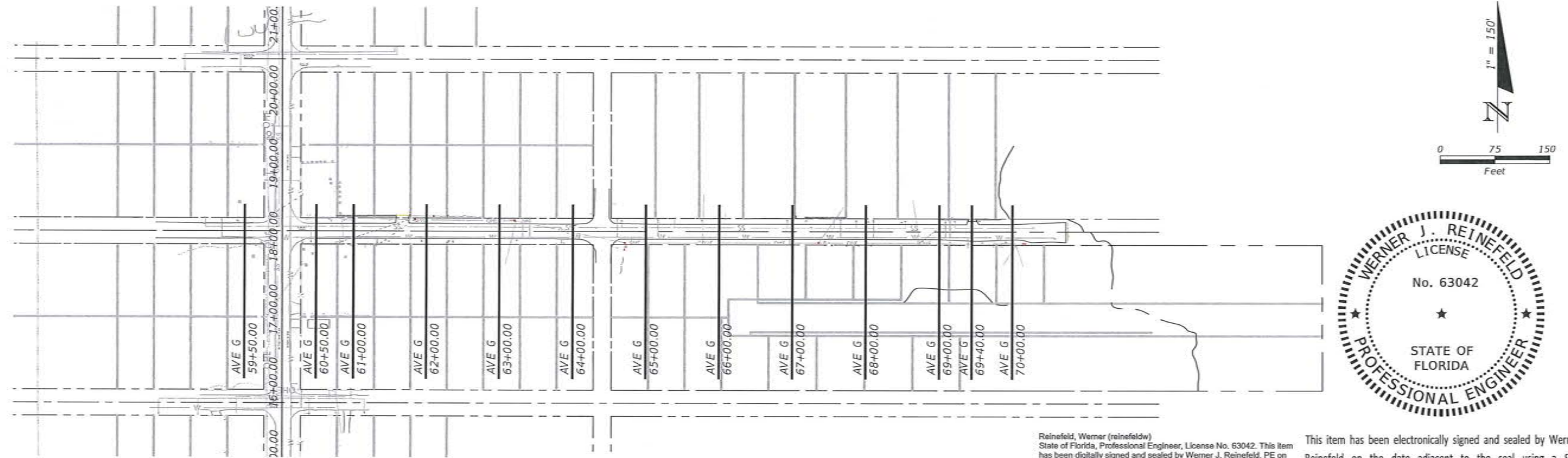


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2022.11.30 15:33:03 -05'00'

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DATE	DESCRIPTION	DATE	DESCRIPTION				
						ROADWAY PLAN & PROFILE (AVE F)	



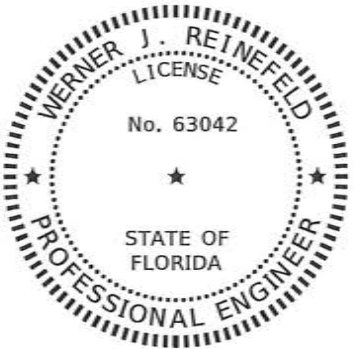
FATHER TONY WAY CROSS SECTION LOCATIONS





AVE G CROSS SECTION LOCATIONS

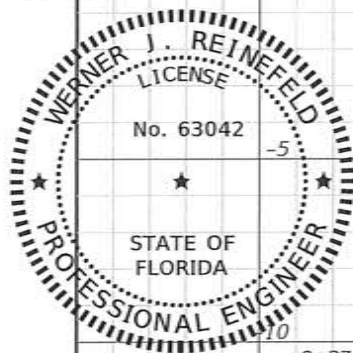
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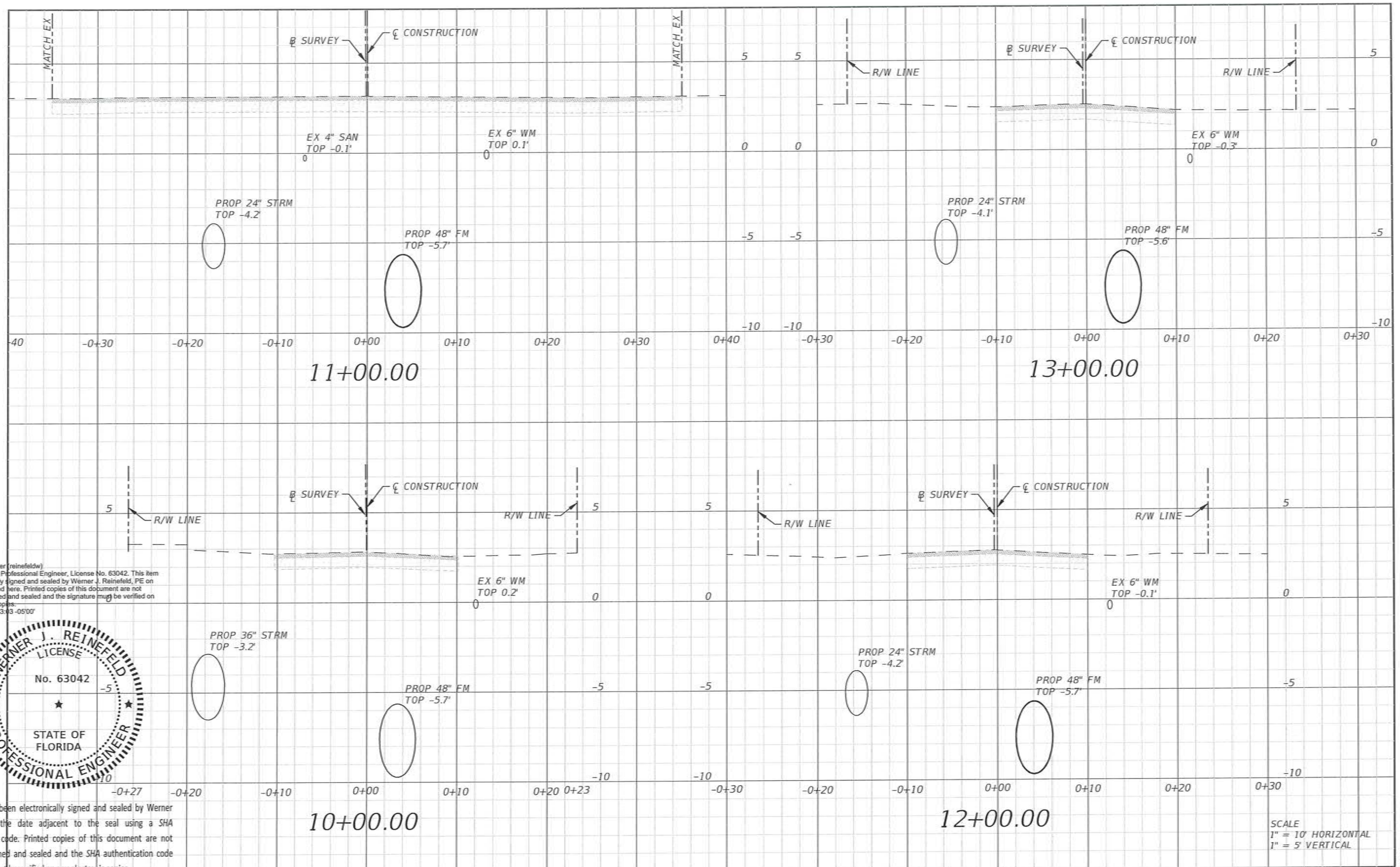


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DATE	DESCRIPTION	DATE	DESCRIPTION				


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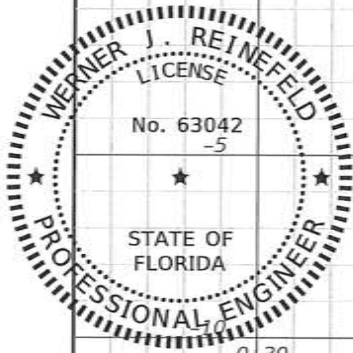
REVISIONS				WERNER REINEFELD, P.E. P.E. LICENSE NUMBER 63042 WSP USA, 7650 CORPORATE CENTER DRIVE, SUITE 300, MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 01462			SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT SANDS SUBDIVISION - BIG PINE KEY MONROE COUNTY - DEPARTMENT OF ENGINEERING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					
							ROADWAY CROSS SECTIONS (FATHER TONY WAY)	RD-17B

Mena, Freddy

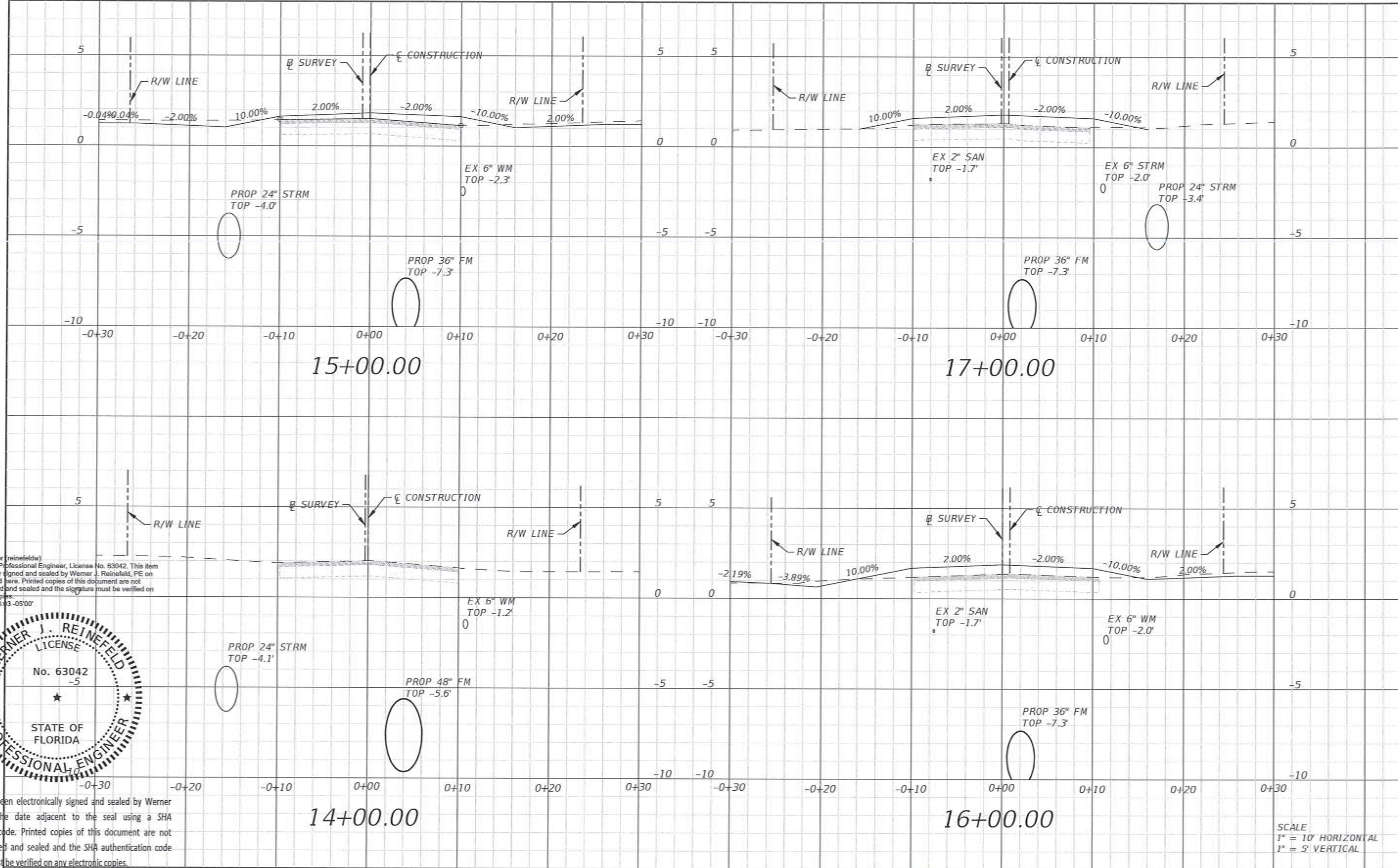
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C:\bms\wsp-pb-us-pw-02\Freddy.mena@wsp.com\d0385535\RD15RD02.dwg

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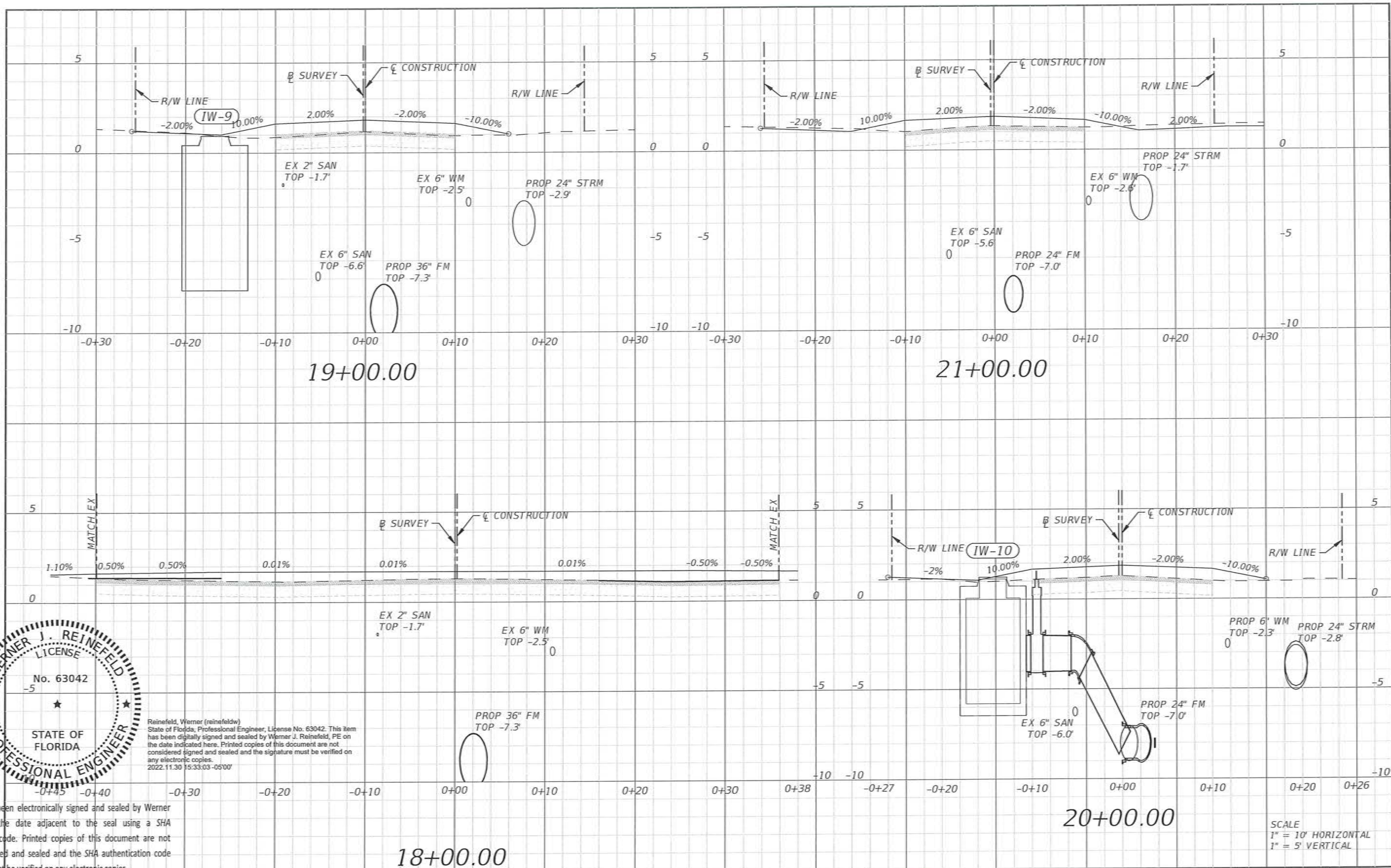


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DATE	DESCRIPTION	DATE	DESCRIPTION				ROADWAY CROSS SECTIONS (FATHER TONY WAY)		RD-18B



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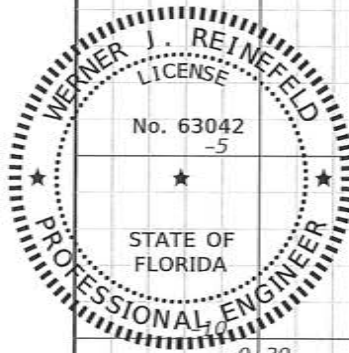
SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT
 SANDS SUBDIVISION - BIG PINE KEY
 MONROE COUNTY - DEPARTMENT OF ENGINEERING

ROADWAY CROSS SECTIONS (FATHER TONY WAY)

SHEET NO.
 RD-19B

SCALE
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Mena, Freddy



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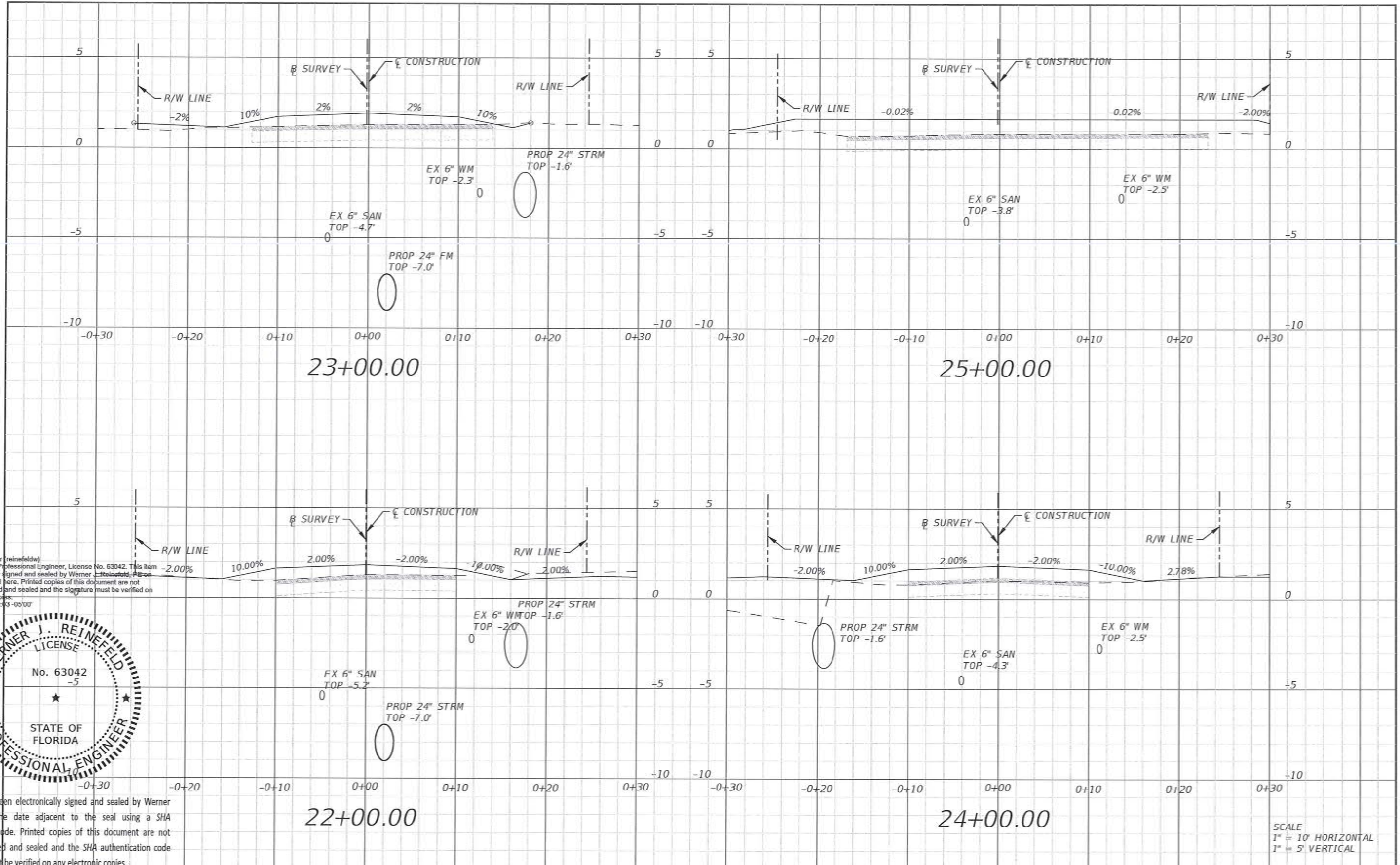
SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT
SANDS SUBDIVISION - BIG PINE KEY
MONROE COUNTY - DEPARTMENT OF ENGINEERING

ROADWAY CROSS SECTIONS (FATHER TONY WAY)

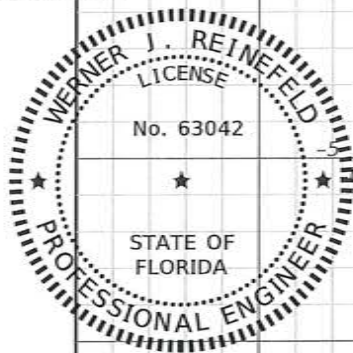
SHEET
NO.

RD-20B

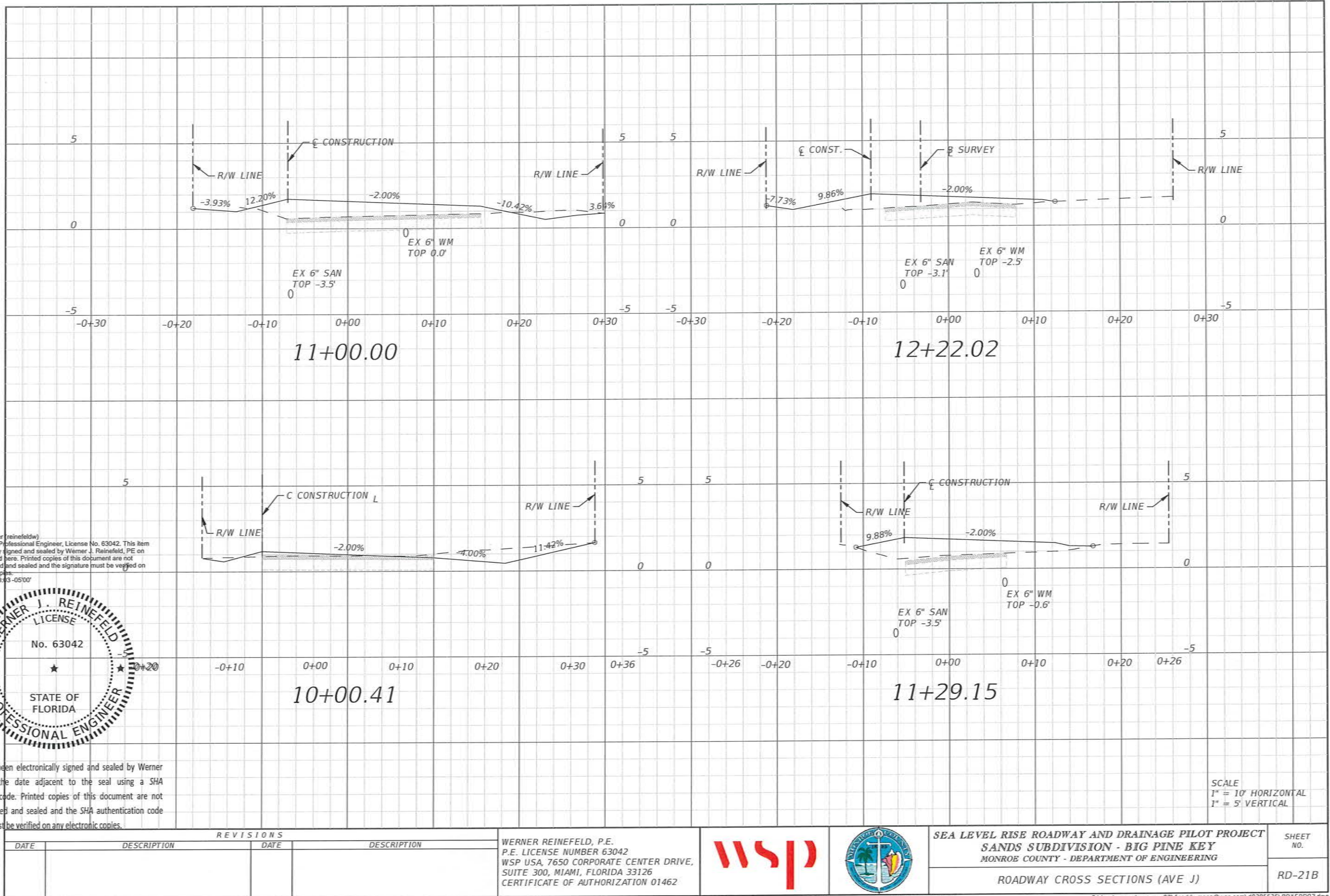
SCALE
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1" = 5' VERTICAL



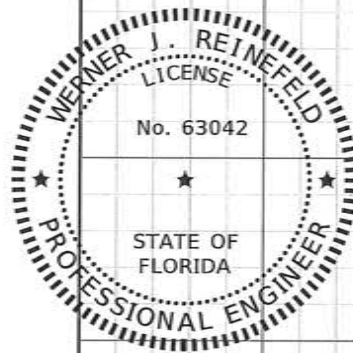
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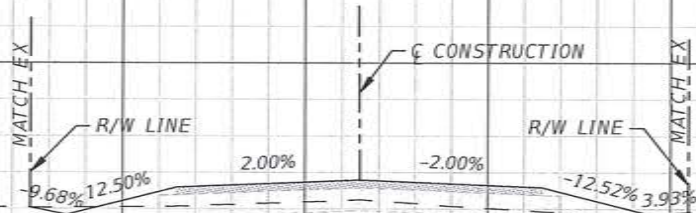
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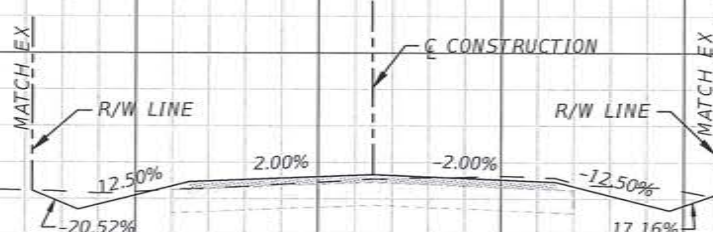


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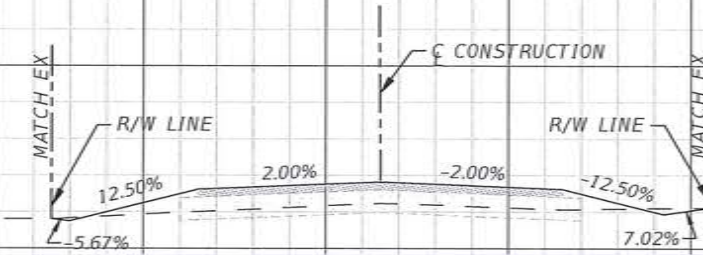
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TOP -1.9'
EX 8" SAN
TOP -5.3'
PROP 18" STRM
TOP -2.5'

60+50.00



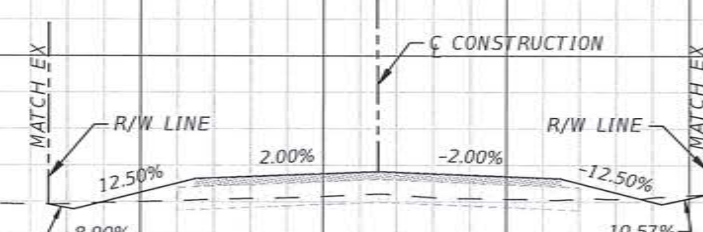
EX 6" SAN
TOP -3.8'
EX 6" WM
TOP -1.7'

59+50.00



EX 6" WM
TOP -1.9'
PROP 18" STRM
TOP -2.5'
EX 8" SAN
TOP -4.7'

62+00.00



EX 6" WM
TOP -2.0'
PROP 18" STRM
TOP -2.5'
EX 8" SAN
TOP -5.0'

61+00.00

SCALE
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1" = 5' VERTICAL

REVISIONS

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CERTIFICATE OF AUTHORIZATION 01462



SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT
SANDS SUBDIVISION - BIG PINE KEY
MONROE COUNTY - DEPARTMENT OF ENGINEERING

ROADWAY CROSS SECTIONS (AVE G)

SHEET
NO.

RD-22B