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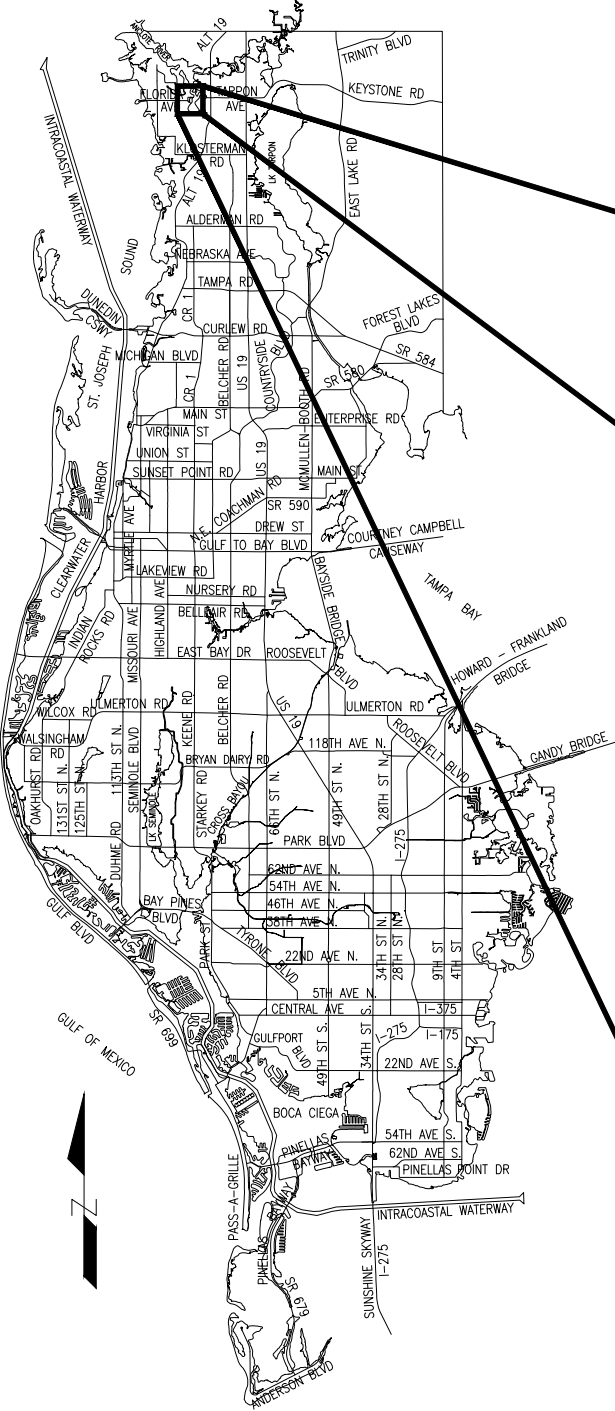
BECKETT BRIDGE REPLACEMENT BRIDGE NO.154566



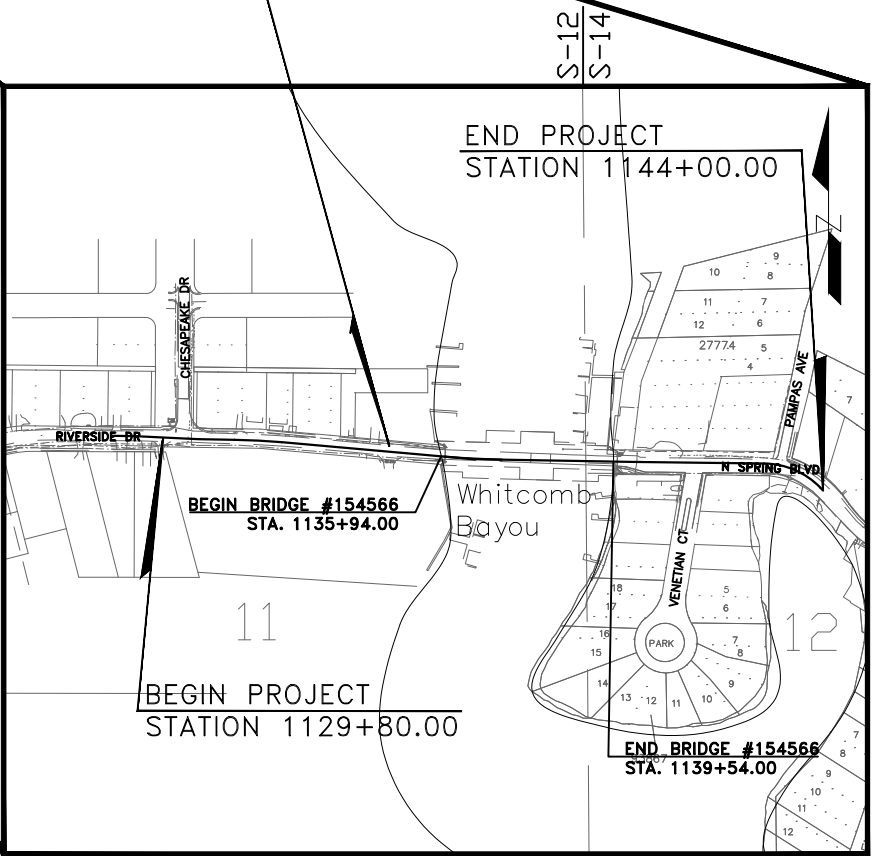
PINELLAS COUNTY
LOCATION MAP

COUNTY PROJECT ID 001037A

ROADWAY PLANS



PROJECT LOCATION



SECTION 11-12, TOWNSHIP 27 SOUTH, RANGE 15 EAST

KEY MAP
NOT TO SCALE

INDEX OF ROADWAY PLANS

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12	SUMMARY OF QUANTITIES
13	SUMMARY OF DRAINAGE STRUCTURES
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100% PLAN SUBMITTAL
06/25/2021

PROJECT MANAGER: ANN VENABLES, AICP
(727)464-3640
PINELLAS COUNTY
TRANSPORTATION ENGINEERING SECTION
TRANSPORTATION DIVISION OF
PINELLAS COUNTY PUBLIC WORKS
14 SOUTH FORT HARRISON AVENUE
CLEARWATER, FLORIDA 33756
PHONE: (727)464-3588

PREPARED BY:
 Hardesty & Hanover
engineering that moves you

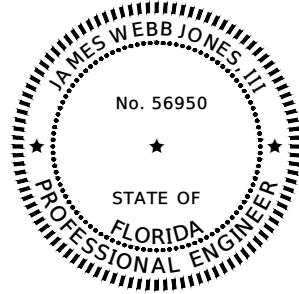
HARDESTY & HANOVER, LLC
5510 EISENHOWER BLVD S, SUITE 310
TAMPA, FLORIDA 33634
CERTIFICATE OF AUTHORIZATION 29741
PHONE: (813)749-0823

JAMES WEBB JONES, III, P.E. No. 56950
ENGINEER OF RECORD

DATE

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

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY:



ON THE DATE ADJACENT TO THE SEAL USING A SHA-1 AUTHENTICATION CODE.
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED
AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC
COPIES.

HARDESTY & HANOVER, LLC
5110 EISENHOWER BLVD,
SUITE 310
TAMPA, FL 33634
CERTIFICATE OF AUTHORIZATION NO. 29741
JASON W. DUNN, P.E. NO. 65039
JDUNN@HARDESTYHANOVER.COM

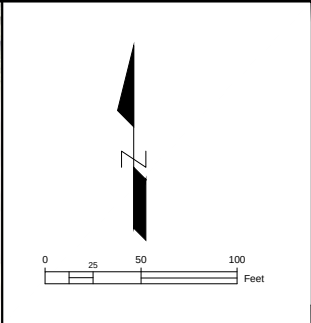
THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

ROADWAY PLANS

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
2	SIGNATURE SHEET
3	DRAINAGE MAP
13	SUMMARY OF DRAINAGE STRUCTURES
23 – 26	DRAINAGE STRUCTURES
36 – 37	STORMWATER POLLUTION PREVENTION PLAN
38 – 40	EROSION AND SEDIMENT CONTROL PLANS

				DESIGNED	MPJ		PROJECT:	BECKETT BRIDGE REPLACEMENT	DESCRIPTION:	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY:	DATE:	JUNE 2021
				DRAWN	JMG								PROJECT NO.	001037A
				CHECKED	JWD								SHEET:	2 OF 54
REV. NO.	DATE	DESCRIPTION	REV. BY											

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				DESIGNED	MPJ		PROJECT:	BECKETT BRIDGE REPLACEMENT	DESCRIPTION:	DRAINAGE MAP	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY:	DATE:
				DRAWN	JMG								PROJECT NO.	
				CHECKED	JWD								001037A	
REV. NO.	DATE	DESCRIPTION	REV. BY	SHEET: 3 OF 55										

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RELATED STANDARDS AND SPECIFICATIONS:

DOCUMENT	DESCRIPTION
D-1	U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", 2009, INCLUDING REV. 1 AND REV. 2 DATED MAY 2012.
D-2	FLORIDA DEPARTMENT OF TRANSPORTATION "JULY, 2021 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSERVATION."
D-3	STATE OF FLORIDA "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS", 2016 ("GREEN BOOK").
D-4	FLORIDA DEPARTMENT OF TRANSPORTATION FY 2020-2021 STANDARDS PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRS)."
D-5	FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL, 2010.
D-6	PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE (D.E.I.) "STANDARD TECHNICAL SPECIFICATIONS FOR ROADWAY AND RELATED CONSTRUCTION", LATEST EDITION AVAILABLE ON-LINE (http://www.pinellascounty.org/technical/pdf/roadway-tech-specs-July-2019-FDOT.pdf).
D-7	PINELLAS COUNTY D.E.I. "STANDARD ENGINEERING DETAILS", LATEST EDITION AVAILABLE ON-LINE (http://www.pinellascounty.org/technical/pdf/std-details.pdf).
D-8	PINELLAS COUNTY D.E.I. STANDARD TECHNICAL SPECIFICATIONS FOR UTILITIES AND RELATED CONSTRUCTION, LATEST EDITION AVAILBLE ONLINE http://www.pinellascounty.org/technical/pdf/eng_tech_specs.pdf
D-9	PINELLAS COUNTY "SPECIFICATIONS FOR HOT BITUMINOUS MIXTURES, PLANT METHODS, EQUIPMENT AND CONSTRUCTION METHODS, 2013.

NOTE: PROVISIONS OF DOCUMENT D-9 SHALL SUPERSEDE CORRESPONDING PROVISIONS OF DOCUMENT D-2 WITH RESPECT TO OPERATION AND TESTING.

- REMOVE ONLY TREES DESIGNATED FOR REMOVAL IN THE PLAN, OR AS DIRECTED BY THE ENGINEER. OBTAIN THE HABITAT MANAGEMENT PERMIT FROM PINELLAS COUNTY TRANSPORTATION & STORMWATER - NATURAL RESOURCES. TREE REMOVAL IS INCLUDED IN THE UNIT PRICE BID FOR CLEARING AND GRUBBING, UNLESS SEPARATE PAY ITEMS ARE PROVIDED.
- ALL MATERIALS NOT CLAIMED BY THE COUNTY MUST BECOME THE PROPERTY OF THE CONTRACTOR, AND MUST BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. THE COST FOR THIS WORK IS INCLUDED IN THE UNIT PRICE BID FOR CLEARING AND GRUBBING. MATERIALS TO BE CLAIMED BY AND DELIVERED TO THE COUNTY ARE AS FOLLOWS:
EXCESS MILLING AND CONCRETE MATERIALS (CURB, SIDEWALK, ETC.) THAT IS FREE FROM REINFORCEMENT MATERIAL.
- ALL STATIONS AND OFFSETS REFER TO CONSTRUCTION BASE LINE, UNLESS OTHERWISE NOTED.
- ALL EXISTING PIPES THAT ARE TO REMAIN IN SERVICE WITHIN THE RIGHT-OF-WAY CORRIDOR ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED IN THE PLANS.
- STORM DRAIN INLET AND MANHOLE STATION LOCATIONS REFERENCE THE CENTER OF THE SPECIFIED STRUCTURE BOTTOM.
- ALL DISTURBED AREAS, INCLUDING AREAS OUTSIDE THE CONSTRUCTION LIMITS, MUST BE RETURNED TO THEIR PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL EXPENSE TO THE COUNTY. SEEDING MUST NOT BE USED AS FINAL GROUND COVER EXCEPT WHERE SPECIFICALLY SHOWN IN THE PLANS OR DIRECTED BY THE ENGINEER.
- SHEETING, SHORING, AND BRACING MUST BE PROVIDED TO PROTECT ADJACENT STRUCTURES AND UTILITIES, OR TO MINIMIZE TRENCH WIDTH. THE COST OF ALL SHEETING, SHORING, AND BRACING REQUIRED IS INCLUDED IN THE UNIT PRICE BID FOR THE ITEM OF WORK FOR WHICH SHEETING, SHORING, AND BRACING IS REQUIRED, UNLESS OTHERWISE PROVIDED FOR SEPARATELY IN THE BID SUBMITTAL SHEETS.
- THE ENGINEER MUST RECEIVE PERMISSION FROM THE PROPERTY OWNER THROUGH A RIGHT OF ENTRY AGREEMENT AND\OR A SIDEWALK, UTILITY, OR DRAINAGE EASEMENT PRIOR TO ANY GRADING OR CONSTRUCTION BEYOND THE RIGHT-OF-WAY.
- ANY AND ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED PRIOR TO COMMENCING CONSTRUCTION. THE ENGINEER MUST BE PROMPTLY NOTIFIED OF ANY DISCREPANCIES.
- THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
- SURFACING MUST NOT BE APPLIED TO ANY MANHOLE COVERS, FRAMES, VALVE BOXES, GAS DROPS, ETC.
- SIDEWALK CURB RAMPS MUST BE PAID FOR AS DEFINED BY PINELLAS COUNTY SPECIFICATION 522 AND PINELLAS COUNTY STANDARD DETAIL 1360.
- ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS MUST REMAIN UNLESS OTHERWISE NOTED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER. PROPOSED SIGN LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT, AS DIRECTED BY THE ENGINEER.
- BLUE, BI-DIRECTIONAL RPMS MUST BE INSTALLED ADJACENT TO ALL FIRE HYDRANTS, PLACED PER FDOT TRAFFIC ENGINEERING MANUAL, SECTION 4.3 - USE OF BLUE RAISED PAVEMENT MARKERS TO IDENTIFY FIRE HYDRANTS.

- ABOVE GROUND AND/OR UNDERGROUND UTILITIES MAY BE IN THE AREA OF THIS PROJECT - PROCEED WITH CAUTION - CALL "SUNSHINE 811" IN ADVANCE OF BEGINNING WORK, IN ACCORDANCE WITH CHAPTER 556, FLORIDA STATUTES, UNDERGROUND FACILITY DAMAGE PREVENTION & SAFETY ACT. ALL UTILITY OWNERS MAY NOT BE A MEMBER, REQUIRING DIRECT CONTACT. FURTHER COORDINATION WITH UTILITY OWNERS MAY BE NECESSARY TO RESOLVE CONFLICTS THAT MAY ARISE IN THE FIELD DURING CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY UTILITIES DAMAGED AS A RESULT OF FAILURE TO CALL "SUNSHINE 811" AND THE UTILITY OWNERS.
- THE RESPONSIBLE UTILITY OWNER MUST BE NOTIFIED FOR RELOCATION OF METER BOXES FOR POTABLE AND NON-POTABLE WATER SERVICE.

17. UTILITY ADJUSTMENT OWNERS:

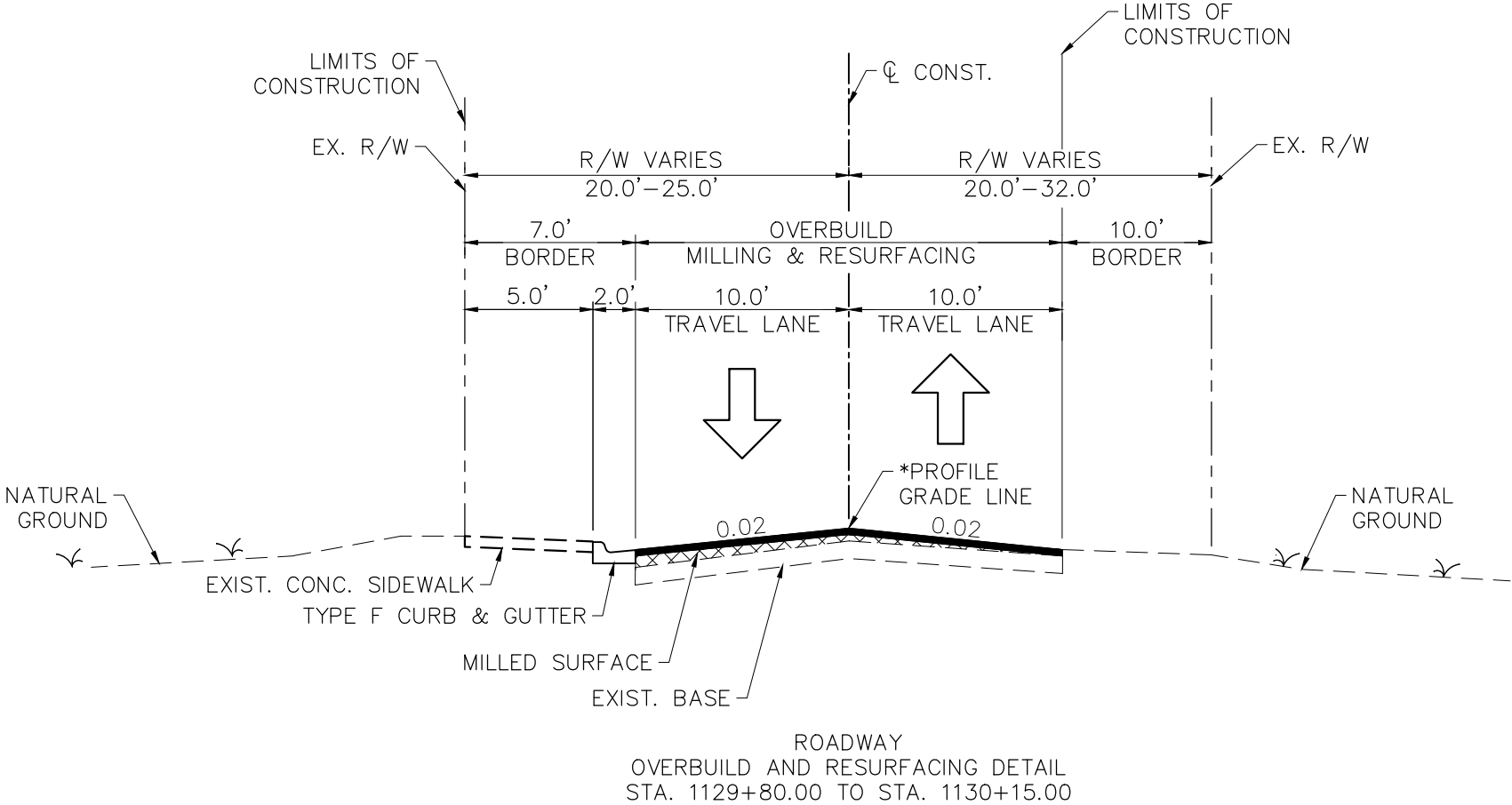
SERVICE AREA NAME	CONTACT	PHONE NUMBERS
CLEARWATER GAS SYSTEM	BOBBY MORIG	DAY: (727)562-4900 X7401 ALT: (727)503-0770
CITY OF TARPON SPRINGS	PAUL HOPKINS	DAY: (727)942-5606 X2601
DUKE ENERGY-ST PETERSBURG FRONTIER	MEGAN VONSTETINA	DAY: (727)893-9394
COMMUNICATIONS KNOLOGY BROADBAND OF FL (DBA WIDE OPEN WEST-WOW)	CARLOS BATES	DAY: (941)906-6709
BRIGHT HOUSE NETWORKS NORTH PINELLAS	JAY YOUNG	DAY: (727)217-2631 ALT: (727)235-1553
	DONALD ANTHONY	DAY: (727)329-2841 ALT: (727)224-5459 EMERG: (727)329-2833

18. TREE REMOVAL NOTES:

NO. OF TREES REMOVED	DESCRIPTION	STATION	OFFSET
3	12" PALM	1139+42.09	27.34' LT
		1139+43.00	33.35' LT
		1139+52.32	21.37' LI
3	15" OAK	1131+86.11	22.58' RT
		1132+06.06	22.43' RT
		1133+16.43	26.48' RT
3	16" OAK	1134+67.62	34.33' RT
		1134+96.50	24.20' RT
		1134+97.41	17.40' RT
8	16" PALM	1139+82.11	28.05' LT
		1139+86.57	22.66' LT
		1139+89.62	28.09' LI
		1140+04.24	26.88' LT
		1140+14.22	26.72' LT
		1140+28.03	27.05' LT
4	18" OAK	1140+33.67	24.69' LI
		1140+37.24	28.50' LT
		1134+25.51	24.28' RT
		1134+57.66	23.40' RT
2	20" PALM	1141+23.90	29.66' LT
		1141+24.91	26.03' LT
		1131+53.63	14.68' RT
1	22" OAK	1131+57.76	14.37' RT
1	42" OAK	1135+58.76	17.40' RT
			21.40' LT

				DESIGNED MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: GENERAL NOTES	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY: ENGINEER OF RECORD JAMES WEBB JONES, III, P.E FLA. LIC. NO 56950	DATE: JUNE 2021
				DRAWN JMG							PROJECT NO. 001037A
REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED JWD							SHEET: 4 OF 55

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OVERBUILD DETAILS

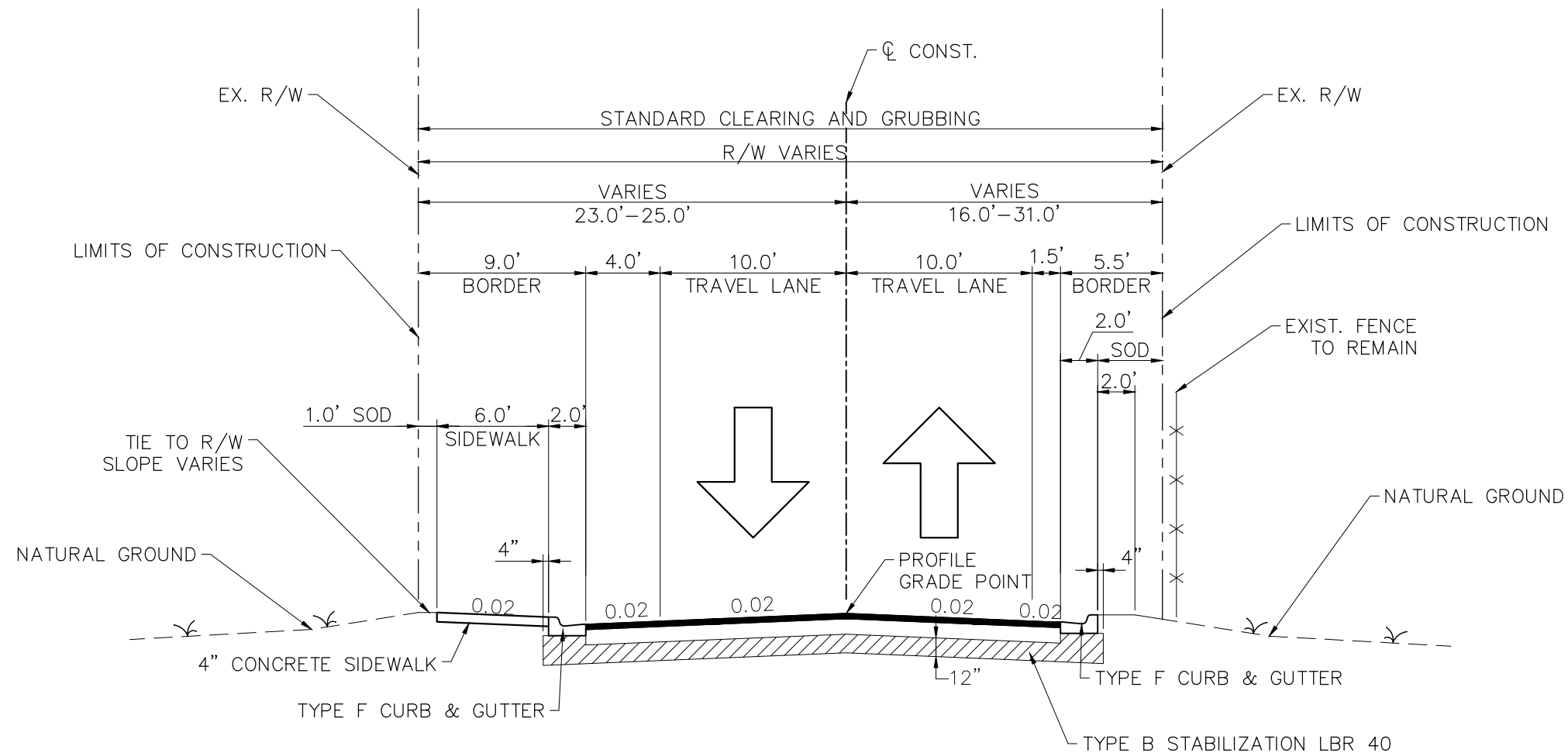
LOCATION		EXIST SLOPE	PROPOSED SLOPE	MAX. DEPTH OF OVERBUILD (IN.)	WIDTH OF OVERBUILD (FT.)	AREA OF OVERBUILD (SQ FT.)
STATION	LANE					
129+80.00	EASTBOUND	1.88%	2.00%	0.14	10.10	0.1
129+90.00	EASTBOUND	1.17%	2.00%	1.02	10.26	0.4
130+00.00	EASTBOUND	0.48%	2.00%	1.90	10.41	0.8
130+15.00	EASTBOUND	-0.47%	2.00%	3.15	10.64	1.4
129+80.00	WESTBOUND	3.79%	2.00%	2.58	11.35	1.2
129+90.00	WESTBOUND	3.62%	2.00%	3.28	11.59	1.6
130+00.00	WESTBOUND	3.64%	2.00%	4.22	11.82	2.1
130+15.00	WESTBOUND	3.47%	2.00%	5.34	12.40	2.8

* PROFILE GRADE LINE VARIES.
SEE PLAN SHEETS & INTERSECTION
DETAILS FOR MORE INFORMATION.

				DESIGNED	MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: TYPICAL SECTION (1)	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY: ENGINEER OF RECORD JAMES WEBB JONES, III, P.E FLA. LIC. NO 56950	DATE: JUNE 2021
				DRAWN	JMG							PROJECT NO. 001037A
				CHECKED	JWD							SHEET: 5 OF 55
REV. NO.	DATE	DESCRIPTION	REV. BY									

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ROADWAY
TYPICAL SECTION
STA. 1130+15.00 TO STA. 1135+10.00

NEW CONSTRUCTION
OPTIONAL BASE GROUP 7 (B12.5 ONLY) WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")

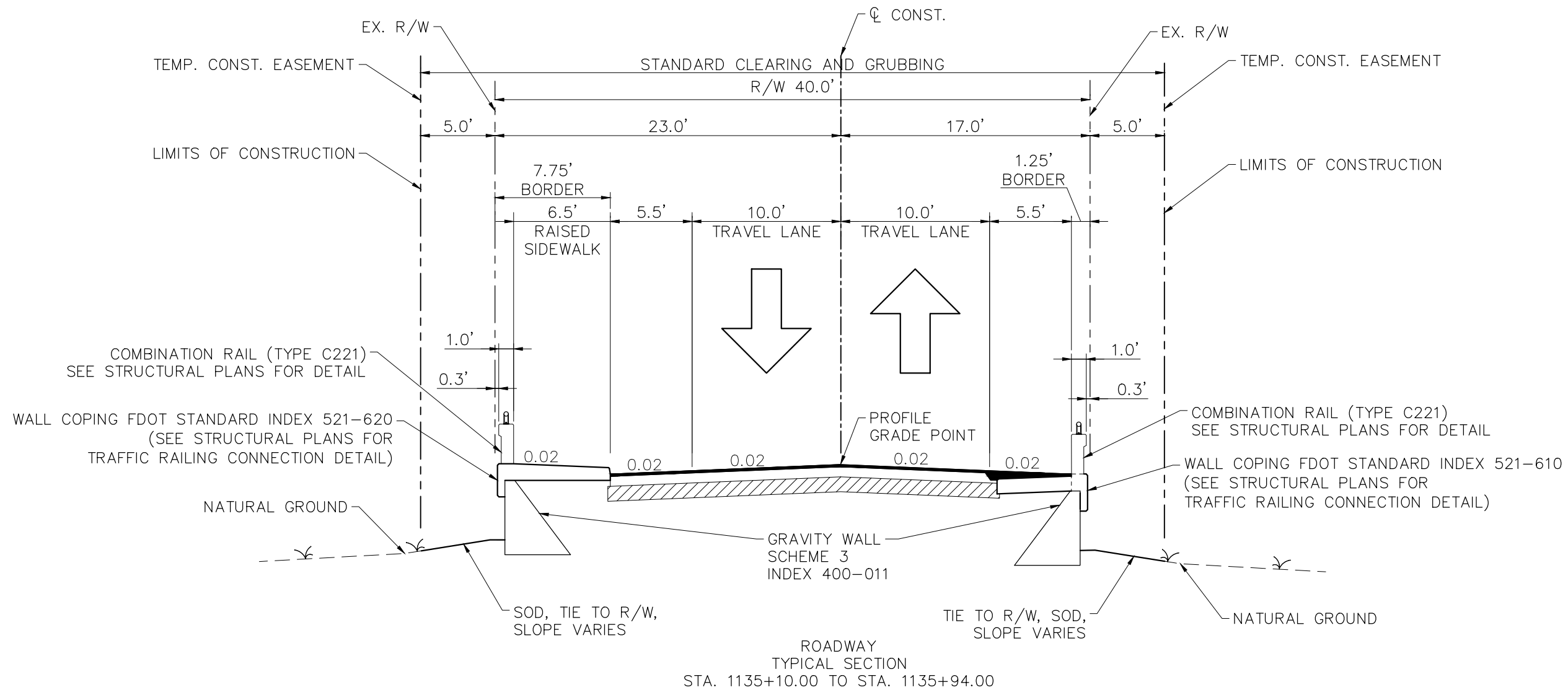
TRAFFIC DATA

CURRENT YEAR = 2016 AADT = 5900
ESTIMATED OPENING YEAR = 2021 AADT = 6200
ESTIMATED DESIGN YEAR = 2041 AADT = 7500
K = 9.0% D = 55.0% T = 2.9% (24 HOUR)
DESIGN SPEED = 30 MPH

				DESIGNED	MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: TYPICAL SECTION (2)	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY: ENGINEER OF RECORD JAMES WEBB JONES, III, P.E. FLA. LIC. NO 56950	DATE: JUNE 2021
				DRAWN	JMG							PROJECT NO. 001037A
				CHECKED	JWD							SHEET: 6 OF 55
REV. NO.	DATE	DESCRIPTION	REV. BY									

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NEW CONSTRUCTION
OPTIONAL BASE GROUP 13 (B12.5 ONLY) WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")

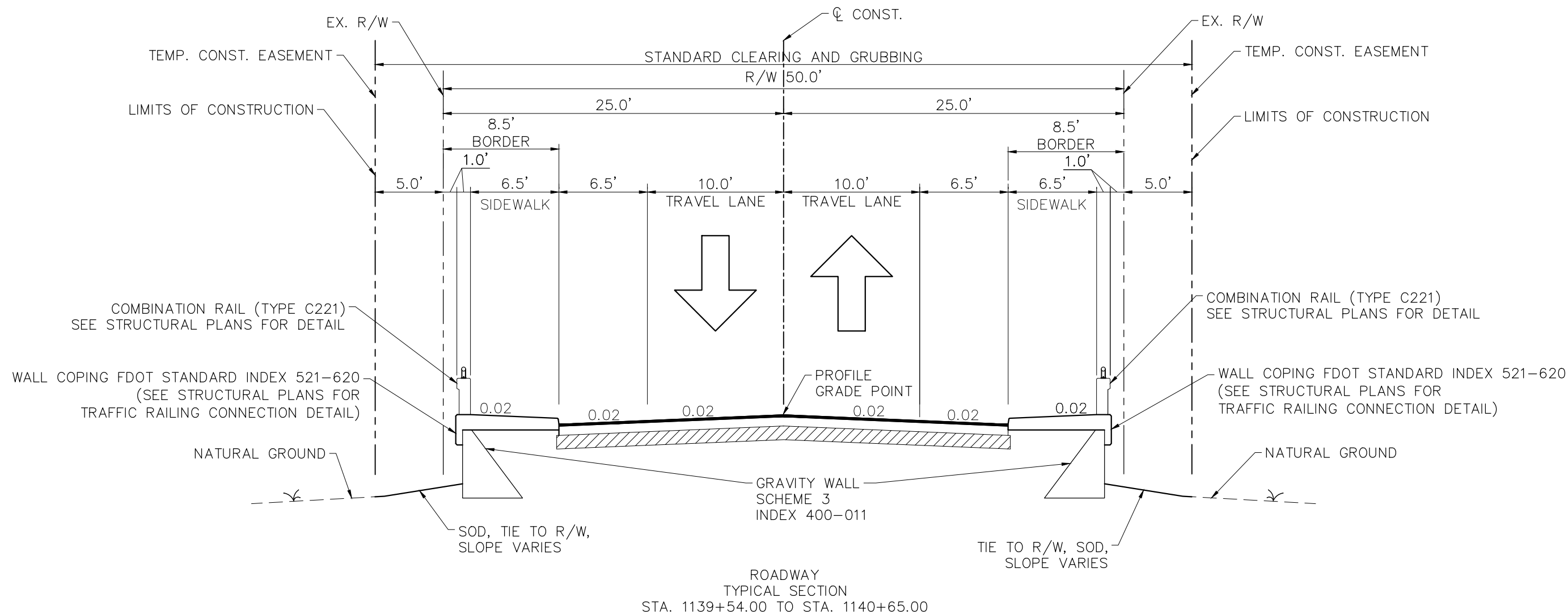
TRAFFIC DATA

CURRENT YEAR = 2016 AADT = 5900
ESTIMATED OPENING YEAR = 2021 AADT = 6200
ESTIMATED DESIGN YEAR = 2041 AADT = 7500
K = 9.0% D = 55.0% T = 2.9% (24 HOUR)
DESIGN SPEED = 30 MPH

				DESIGNED	MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: TYPICAL SECTION (3)	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY: ENGINEER OF RECORD JAMES WEBB JONES, III, P.E. FLA. LIC. NO 56950	DATE:	JUNE 2021
				DRAWN	JMG							PROJECT NO.	001037A
				CHECKED	JWD							SHEET:	7 OF 55
REV. NO.	DATE	DESCRIPTION	REV. BY										

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NEW CONSTRUCTION
OPTIONAL BASE GROUP 13 (B12.5 ONLY) WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")

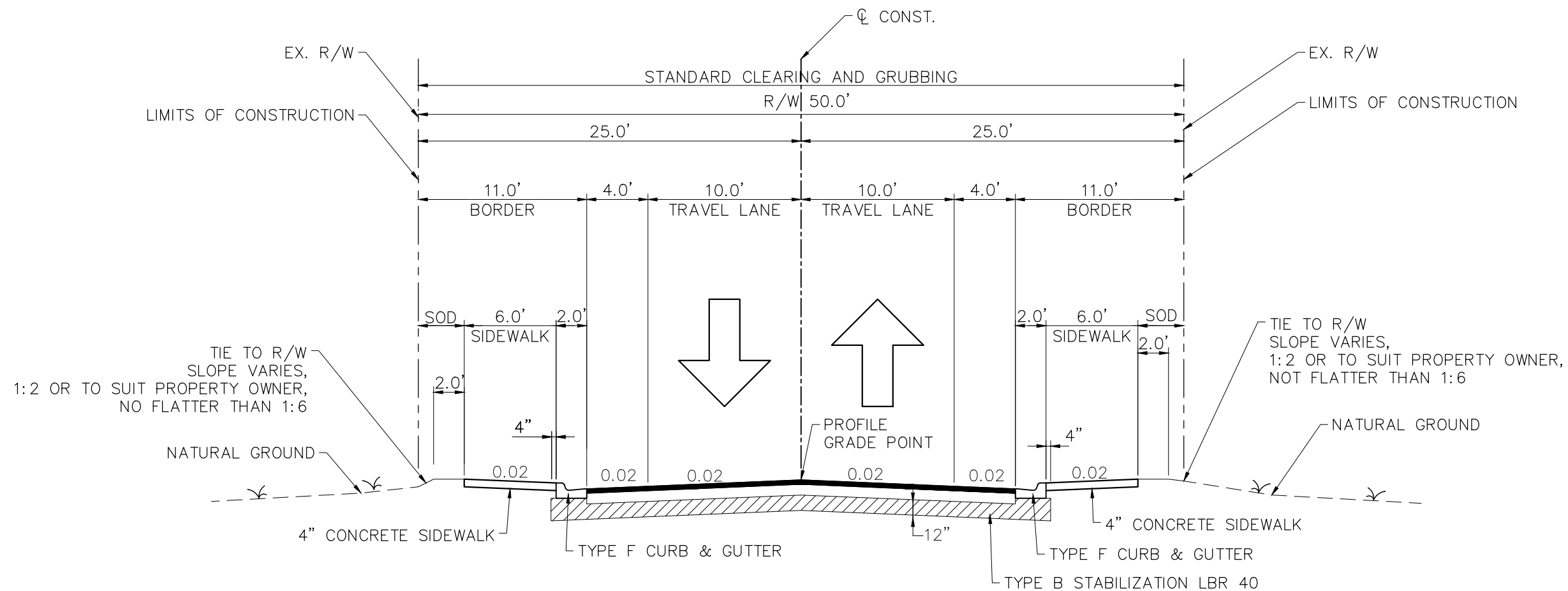
TRAFFIC DATA

CURRENT YEAR = 2016 AADT = 5900
ESTIMATED OPENING YEAR = 2021 AADT = 6200
ESTIMATED DESIGN YEAR = 2041 AADT = 7500
K = 9.0% D = 55.0% T = 2.9% (24 HOUR)
DESIGN SPEED = 30 MPH

REV. NO.	DATE	DESCRIPTION	REV. BY	DESIGNED MPJ	DRAWN JMG	CHECKED JWD	PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: TYPICAL SECTION (4)	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741	APPROVED BY: ENGINEER OF RECORD JAMES WEBB JONES, III, P.E. FLA. LIC. NO 56950	DATE: JUNE 2021 PROJECT NO. 001037A SHEET: 8 OF 55
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ROADWAY
TYPICAL SECTION
STA. 1140+65.00 TO STA. 1141+01.70

NEW CONSTRUCTION
OPTIONAL BASE GROUP 7 (B12.5 ONLY) WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")

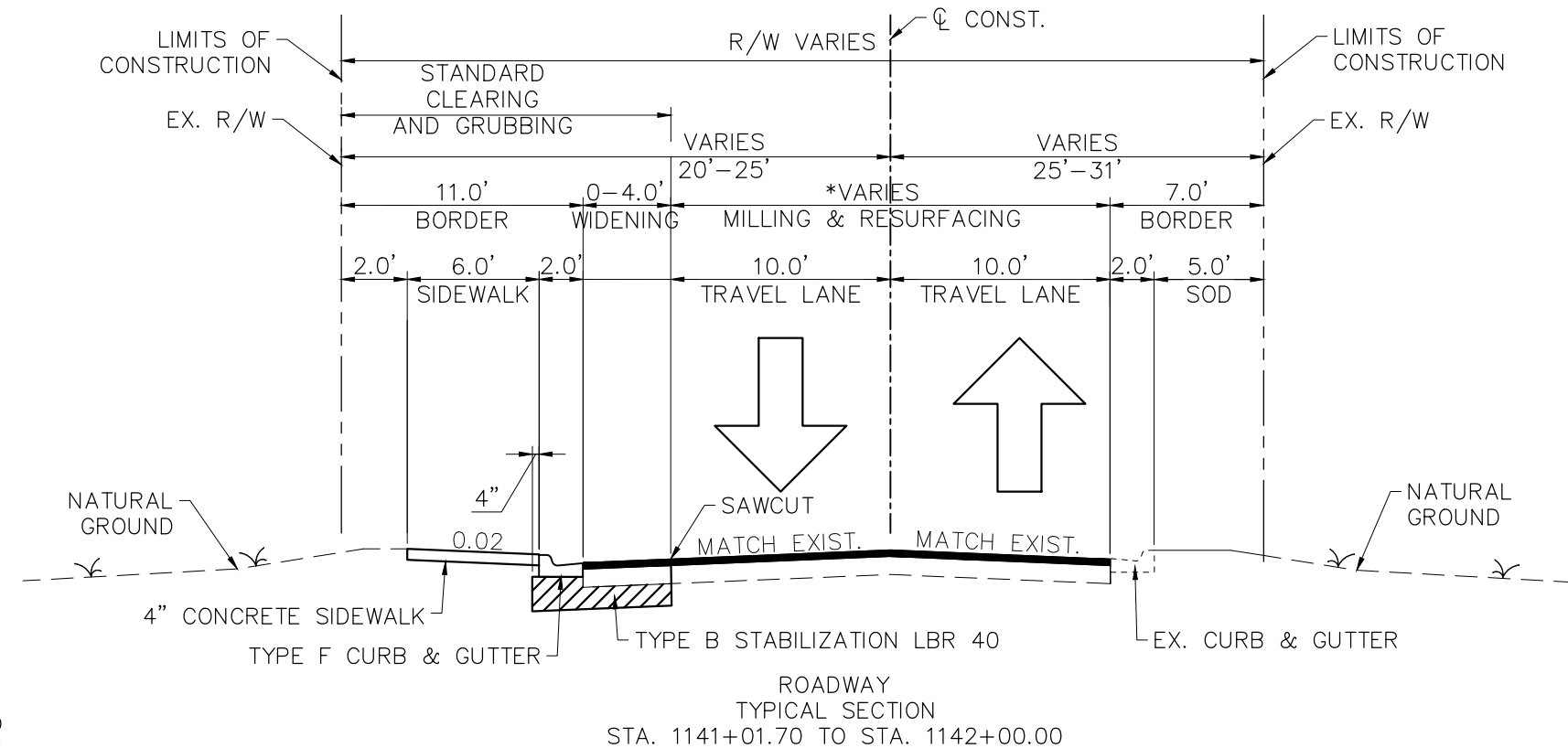
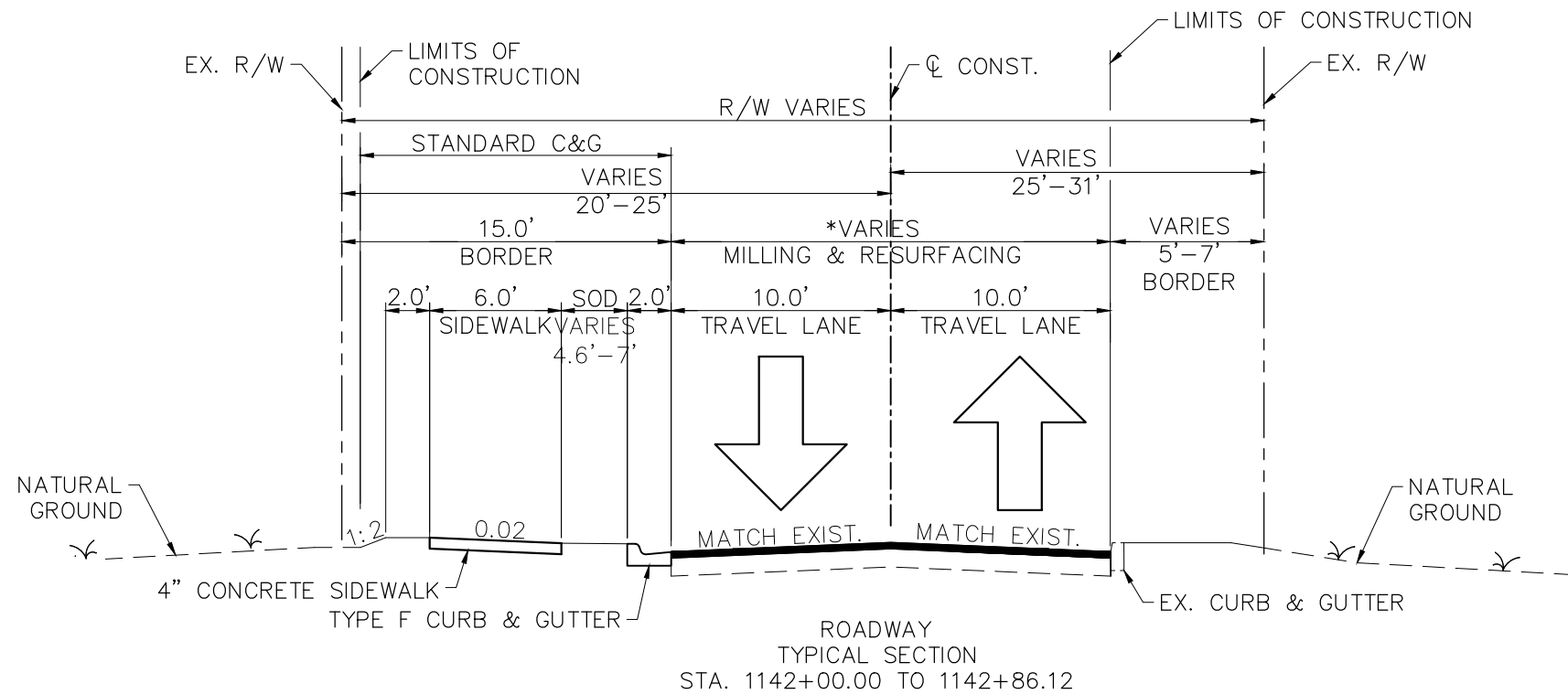
TRAFFIC DATA

CURRENT YEAR = 2016 AADT = 5900
ESTIMATED OPENING YEAR = 2021 AADT = 6200
ESTIMATED DESIGN YEAR = 2041 AADT = 7500
K = 9.0% D = 55.0% T = 2.9% (24 HOUR)
DESIGN SPEED = 30 MPH

				DESIGNED	MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: TYPICAL SECTION (5)	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY:	DATE: JUNE 2021
				DRAWN	JMG						PROJECT NO. 001037A	
				CHECKED	JWD						SHEET: 9 OF 55	
REV. NO.	DATE	DESCRIPTION	REV. BY									

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WIDENING
OPTIONAL BASE GROUP 7 (B12.5 ONLY) WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")

MILL AND RESURFACING
MILL EXISTING ASPHALT (2" AVG. DEPTH)
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")

* DIMENSIONS VARY SEE PLAN SHEETS &
INTERSECTION DETAILS FOR MORE
INFORMATION

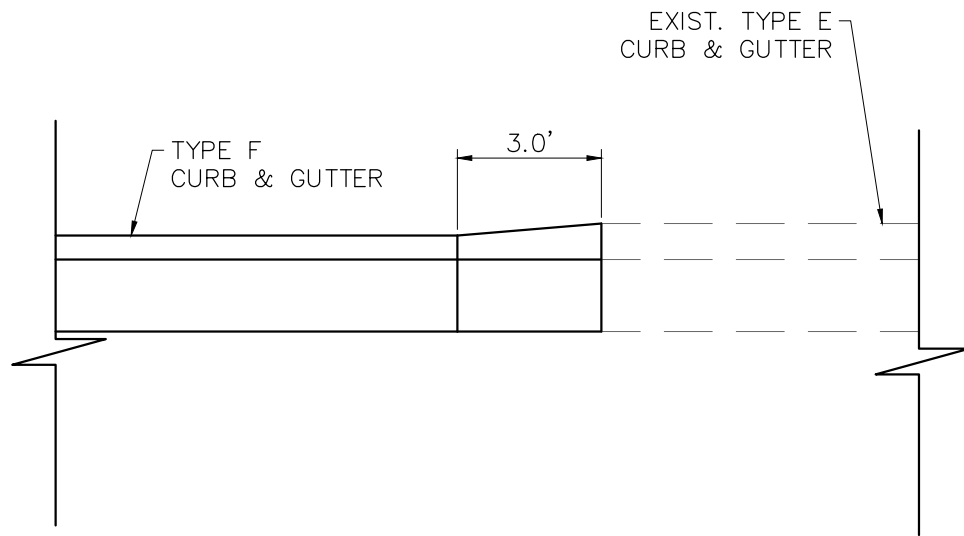
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DESIGN SPEED = 30 MPH

				DESIGNED	MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: TYPICAL SECTION (6)	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY:	DATE: JUNE 2021
				DRAWN	JMG						PROJECT NO. 001037A	
				CHECKED	JWD						SHEET: 10 OF 55	
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CURB & GUTTER TRANSITION DETAIL
CL CHESAPEAKE
STA. 10+61.00 TO STA. 10+64.00

				DESIGNED	MPJ		PROJECT:	BECKETT BRIDGE REPLACEMENT	DESCRIPTION:	SPECIAL DETAIL	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY:	DATE:	
				DRAWN	JMG									JUNE 2021	
				CHECKED	JWD									PROJECT NO.	
														001037A	
REV. NO.	DATE	DESCRIPTION		REV. BY										SHEET:	
														11 OF 55	

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ITEM NO.	ITEM	UNIT	QUANTITY
ROADWAY			
102 - 3	COMMERCIAL MATERIAL FOR TEMPORARY DRIVEWAY MAINTENANCE	CY	20.00
102 - 14	TRAFFIC CONTROL OFFICER	HR	16.00
102 - 60	WORK ZONE SIGN	ED	20,000.00
102 - 61	BUSINESS SIGNS	EA	2.00
102 - 62	BARRIER MOUNTED WORK ZONE SIGN	ED	3,000.00
102 - 71 - 13	TEMPORARY BARRIER, F&I, LOW PROFILE, CONCRETE	LF	100.00
102 - 71 - 23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE, CONCRETE	LF	100.00
102 - 74 1	CHANNELIZING DEVICE - TYPES I, II, DI, VP, DRUM OR LCD	ED	20,000.00
102 - 76	ARROW BOARD/ADVANCE WARNING ARROW PANEL	ED	30.00
102 - 78	TEMPORARY RETROREFLECTIVE PAVEMENT MARKER	EA	453.00
102 - 99	PORTABLE CHANGEABLE MESSAGE SIGN TEMPORARY	ED	100.00
102 - 115	CHANNELIZING DEVICE, TYPE III, 6'	ED	33,600.00
104 - 10 - 3	SEDIMENT BARRIER	LF	2,000.00
104 - 11	FLOATING TURBIDITY BARRIER	LF	1,120.00
104 - 18	INLET PROTECTION SYSTEM	EA	10.00
107 - 1 -	LITTER REMOVAL AND DISPOSAL	AC	2.00
107 - 2 -	MOWING	AC	0.50
110 - 1 - 1	CLEARING & GRUBBING	LS/AC	1.00
110 - 4	REMOVAL OF EXIST CONCRETE PAVEMENT / REMOVAL OF EXIST CONCRETE	SY	200.00
110 - 7	MAIL BOX	EA	10.00
120 - 1 -	REGULAR EXCAVATION	CY	706.30
120 - 5	CHANNEL EXCAVATION	CY	500.00
120 - 6	EMBANKMENT	CY	219.10
285 - 713	OPTIONAL BASE, BASE GROUP 13 (B12.5 ONLY)	SY	2,100.00
327 - 70 - 6	MILLING EXIST ASPH PAVT, 1 1/2 " AVG DEPTH	SY	600.00
334 - 1 - 53	SUPERPAVE ASPHALTIC CONC, TRAFFIC C, PG 76-22	TN	160.00
337 - 7 - 83	ASPHALTIC CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22	TN	202.50
400 - 0 - 11	CONCRETE CLASS NS, GRAVITY WALL	CY	180.00
425 - 1 - 331	INLETS, CURB, TYPE P-3, <10'	EA	1.00
425 1 - 351	INLETS, CURB, TYPE P-5, <10'	EA	7.00
425 - 1 - 361	INLETS, CURB, TYPE P-6, <10'	EA	3.00
425 - 1 - 561	INLETS, DT DOT, TYPE F, <10'	EA	1.00
425 - 2 - 61	MANHOLE, P8, <10'	EA	3.00
430 - 175 - 118	PIPE CULV, OPT MATL, ROUND, 18"S/CD	LF	888.00
430 - 881 - 18	IN-LINE CHECK VALVE, 18"	EA	2.00
520 - 1 - 10	CONCRETE CURB & GUTTER, TYPE F	LF	1,300.00
521 - 72 - 43	SHOULDER CONCRETE BARRIER WALL, RIGID - CURB & GUTTER	LF	240.00
522 - 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	3,531.00
527 - 2	DETECTABLE WARNINGS	SF	174.00
530 - 3 - 4	RIP RAP, RUBBLE, F&I, DITCH LINING	TN	28.10
570 - 1 - 2	PERFORMANCE TURF (SOD)	SY	800.00

SIGNING AND PAVEMENT MARKINGS							
700	-	1	-	11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	17.00
700	-	1	-	12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	2.00
700	-	1	-	60	SINGLE POST SIGN, REMOVE	AS	22.00
706	-	1	-	3	RAISED PAVEMENT MARKERS	EA	1,100.00
711	-	11	-	123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	96.00
711	-	11	-	125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	110.00
711	-	16	-	101	THERMOPLASTIC, STANDARD - OTHER SURFACES, WHITE, SOLID, 6"	GM	0.30
711	-	16	-	201	THERMOPLASTIC, STANDARD - OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.30
713	-	103	-	101	PERMANENT TAPE. WHITE, SOLID, 6" FOR CONCRETE BRIDGES	GM	0.15
713	-	103	-	201	PERMANENT TAPE. YELLOW, SOLID, 6" FOR CONCRETE BRIDGES	GM	0.15

				DESIGNED	MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: SUMMARY OF QUANTITIES	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741 	APPROVED BY: ENGINEER OF RECORD JAMES WEBB JONES, III, P.E FLA. LIC. NO 56950	DATE:	JUNE 2021
				DRAWN	JMG						PROJECT NO.	001037A
REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED	JWD						SHEET:	12 OF 55

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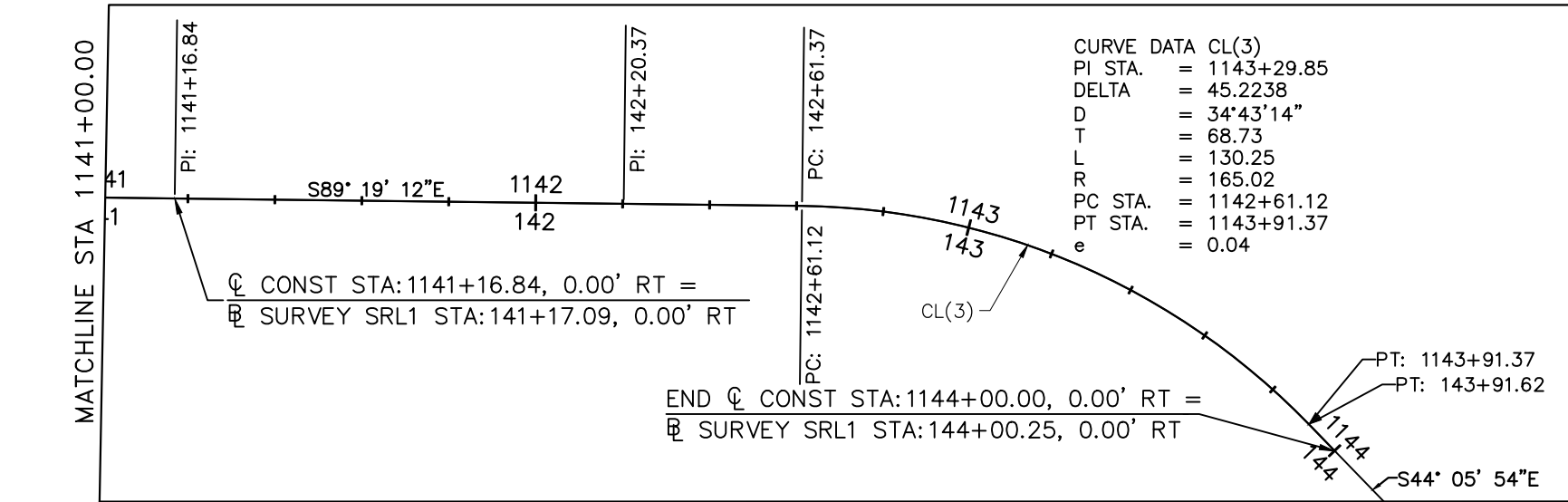
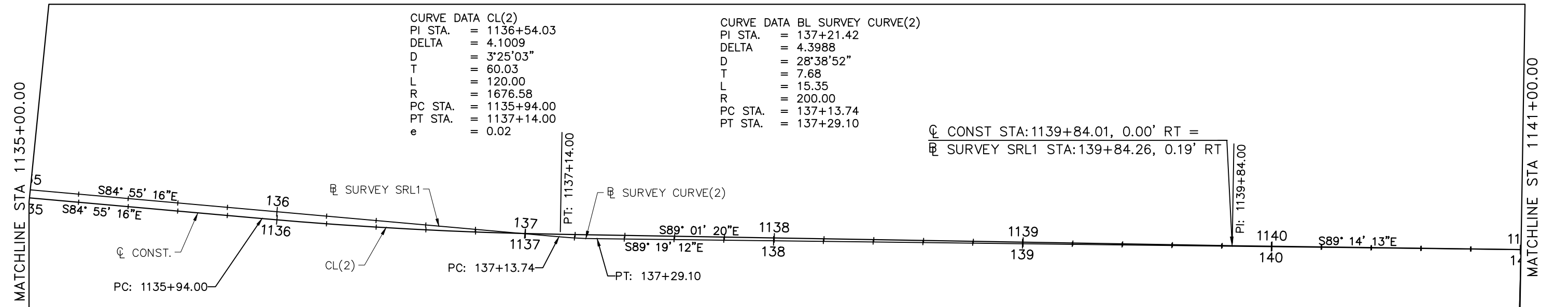
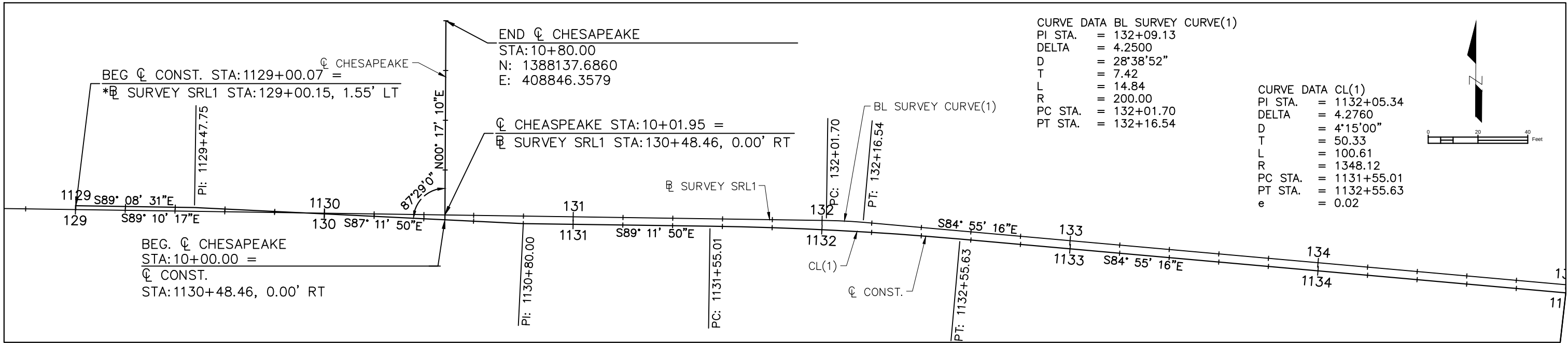
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QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN	INLETS, CURB, TYPE P-3, <10'	INLETS, CURB, TYPE P-5, <10'	INLETS, CURB, TYPE P-6, <10'	INLETS, TYPE F, <10'	MANHOLES	CLASS I CONC.	REMARKS
						ROUND							
						18"							
											P-8	(CY)	
P	S-1	1130+58.00	LT.	Inlet, Pipe	1	28		1					
F													
P	S-1A	10+47.00	LT.	Inlet, Pipe	1	25		1					
F													
P	S-1B	10+47.00	RT.	Inlet, Pipe	1	32			1				
F													
P	S-1C	1130+58.00	LT.	MH, Pipe	1	36					1		
F													
P	S-2	1131+00.00	RT.	Inlet, Pipe	1	100		1					
F													
P	S-2A	1130+38.00	RT.	Inlet, Pipe	1	63				1			
F													
P	S-3	1132+00.00	RT.	MH, Pipe	1	125					1		
F													
P	S-4	1133+25.00	LT.	Inlet, Pipe	1	29			1				
F													
P	S-5	1133+25.00	RT.	Inlet, Pipe	1	183			1				
F													
P	S-6	1135+02.00	LT.	Inlet, Pipe	1	21		1					
F													
P	S-7	1135+08.00	RT.	Inlet, Pipe	1	10		1					
F													
P	S-8	1135+08.00	RT.	MH, Pipe, Endwall	1	85					1		
F													
P	S-9	1139+46.00	RT.	Inlet, Pipe	1	116	1						
F													
P	S-10	1140+71.00	LT.	Inlet, Pipe	1	35		1					
F													
Sheet Totals				Plan Quantity		888	1	6	3	1	3	0.00	
				Final Quantity									

				DESIGNED	MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: SUMMARY OF DRAINAGE STRUCTURES	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY: ENGINEER OF RECORD JASON W. DUNN, P.E. FLA. LIC. NO 65039	DATE: JUNE 2021
				DRAWN	JMG							PROJECT NO. 001037A
REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED	JWD							SHEET: 13 OF 55

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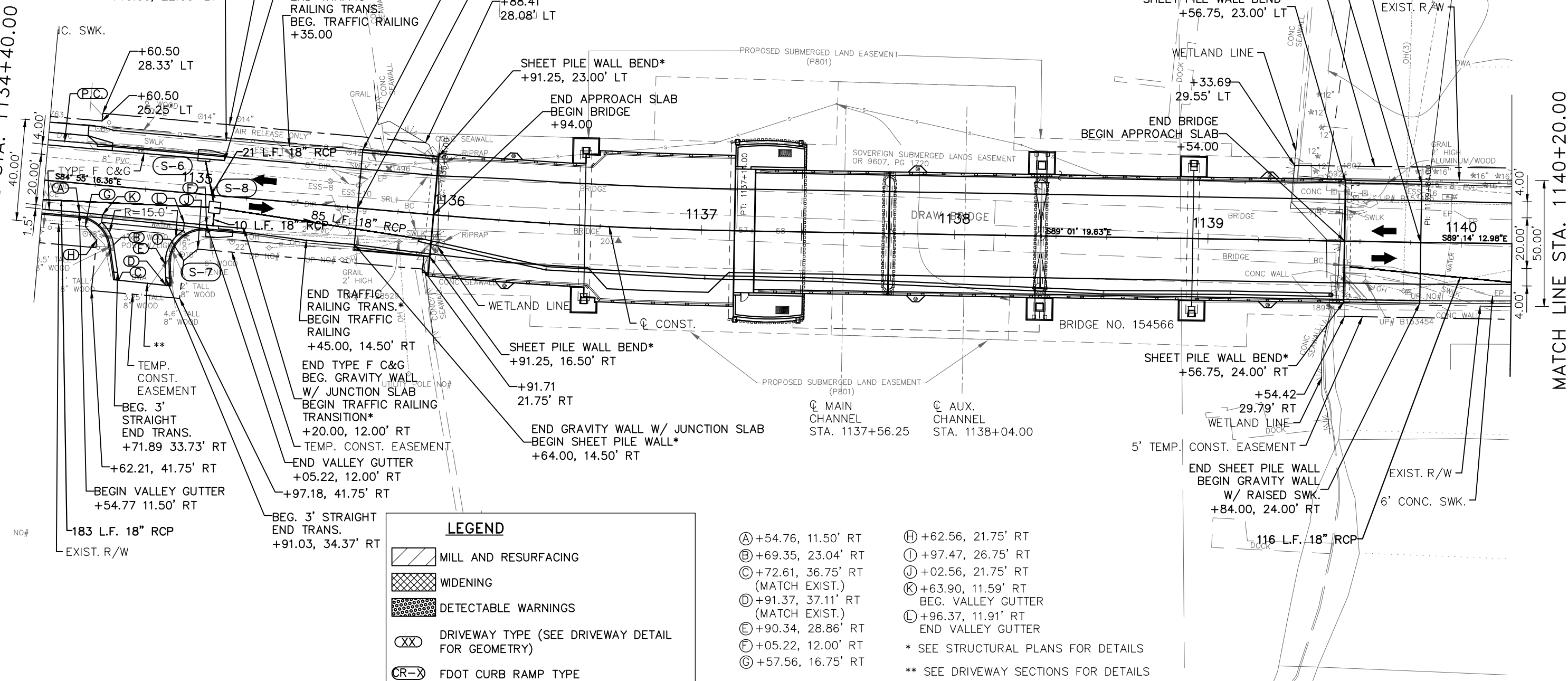
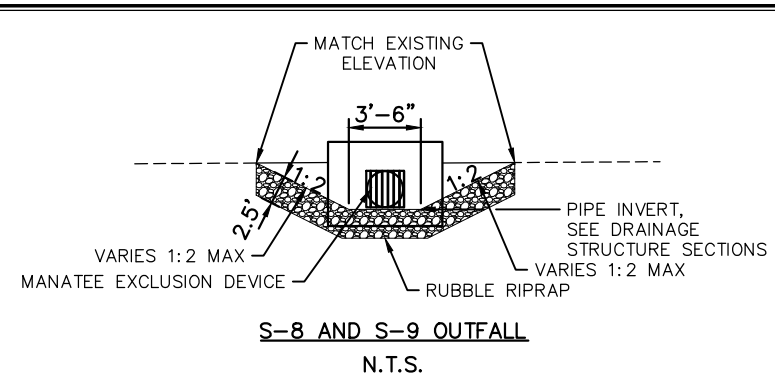
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*FOR BENCHMARK AND ADDITIONAL INFORMATION SEE TOPOGRAPHIC SURVEY

DESIGNED	MPJ		PROJECT:	DESCRIPTION:	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741	APPROVED BY:	 ENGINEER OF RECORD JAMES WEBB JONES, III, P.E. FLA. LIC. NO 56950	DATE:
DRAWN	JMG							JUNE 2021
CHECKED	JWD							PROJECT NO.
								001037A
REV. NO.	DATE	DESCRIPTION	REV. BY					SHEET:
								14 OF 55

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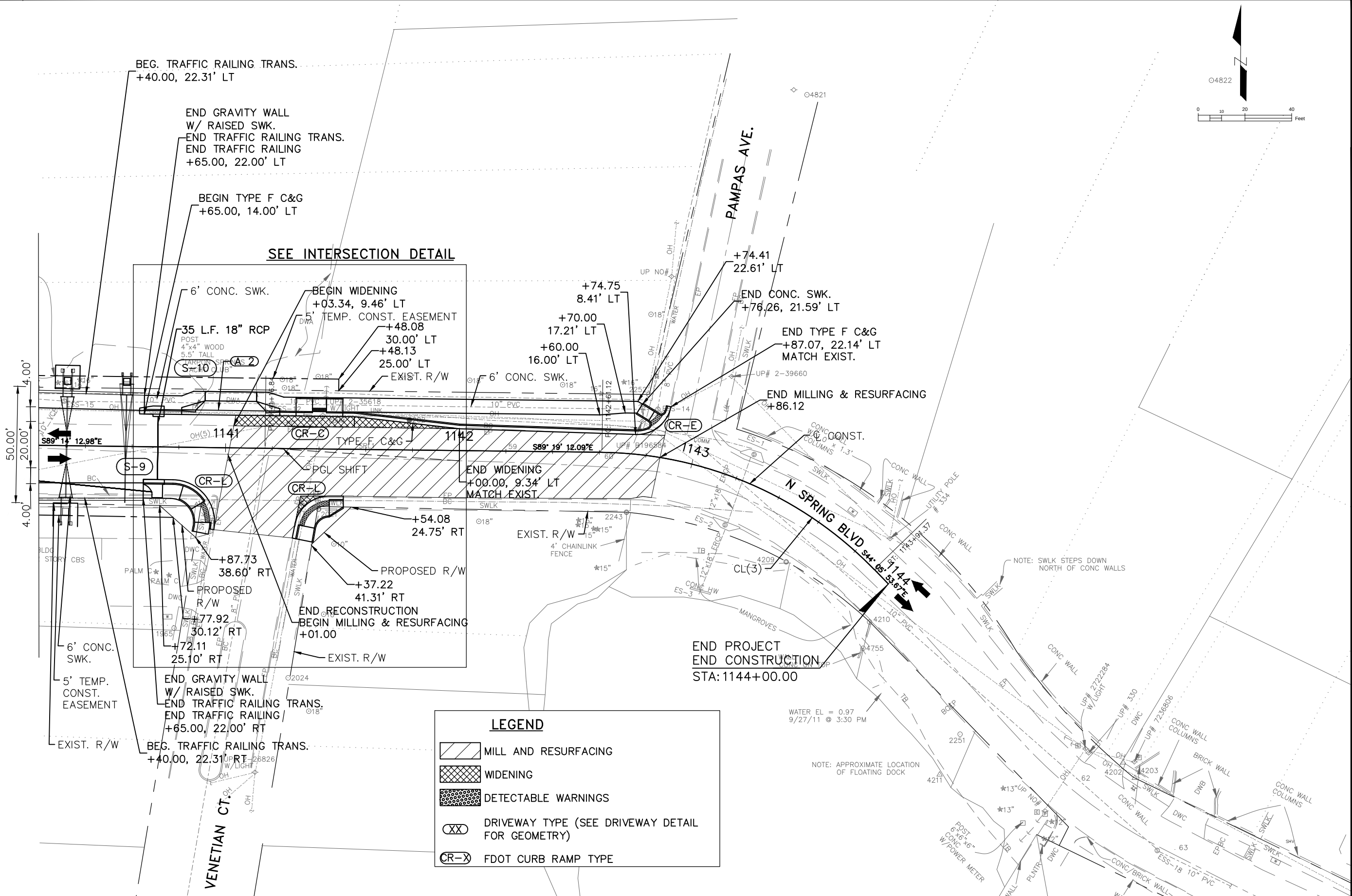


MATCH LINE STA: 1140+20.00

				DESIGNED	MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: PLAN (2)	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY:	DATE: JUNE 2021
				DRAWN	JMG						PROJECT NO. 001037A	
REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED	JWD						SHEET: 16 OF 55	

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MATCH LINE STA. 1140+20.00



REV. NO.	DATE	DESCRIPTION	REV. BY

DESIGNED	MPJ
DRAWN	JMG
CHECKED	JWD



PROJECT: BECKETT BRIDGE REPLACEMENT

DESCRIPTION: PLAN (3)

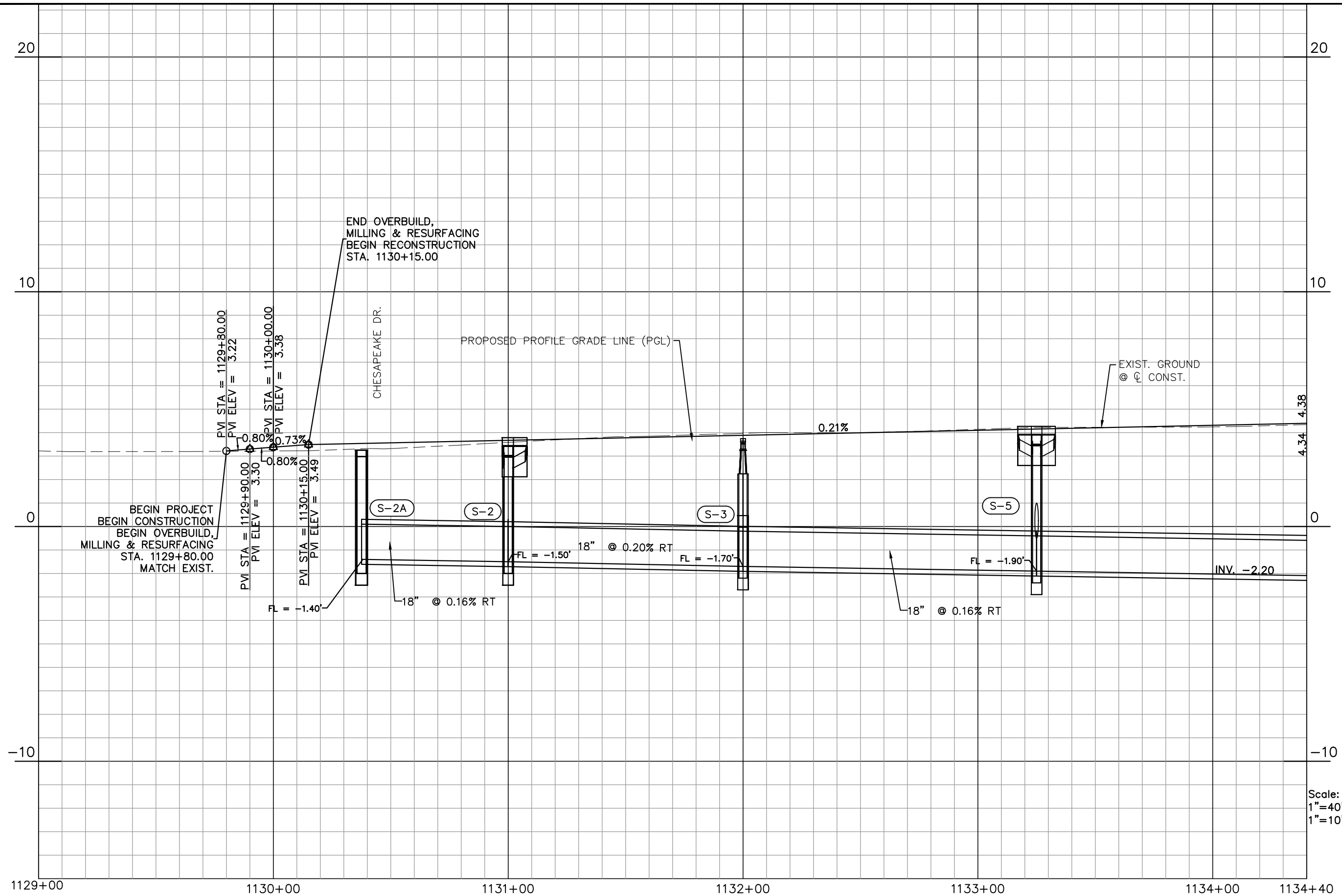
HARDESTY & HANOVER, LLC.
5110 EISENHOWER BLVD.
SUITE 310
TAMPA, FL 33634
CERTIFICATION OF AUTHORIZATION # 29741

APPROVED BY: 
ENGINEER OF RECORD
JAMES WEBB JONES, III, P.E.
FLA. LIC. NO 56950

DATE: JUNE 2021
PROJECT NO. 001037A
SHEET: 17 OF 55

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REV. NO.	DATE	DESCRIPTION	REV. BY

DESIGNED	MPJ
DRAWN	JMG
CHECKED	JWD



PROJECT: BECKETT BRIDGE REPLACEMENT

DESCRIPTION: PROFILE (1)

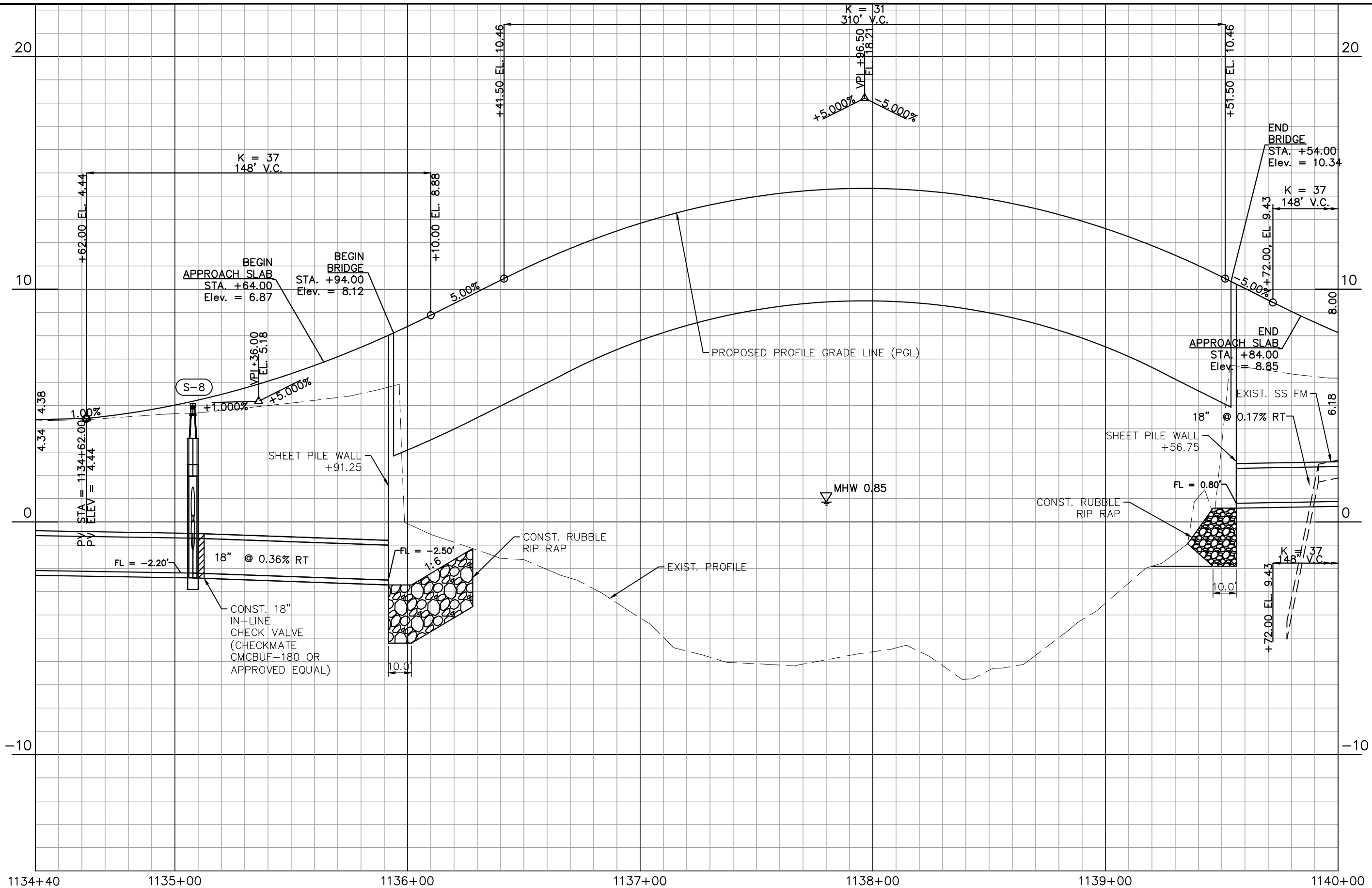
HARDESTY & HANOVER, LLC.
5110 EISENHOWER BLVD.
SUITE 310
TAMPA, FL 33634
CERTIFICATION OF AUTHORIZATION # 29741

APPROVED BY: 
ENGINEER OF RECORD
JAMES WEBB JONES, III, P.E.
FLA. LIC. NO 56950

DATE: JUNE 2021
PROJECT NO. 001037A
SHEET: 18 OF 55

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Scale:
1"=40' Horiz.
1"=10' Vert.

REV. NO.	DATE	DESCRIPTION	REV. BY

DESIGNED	MPJ
DRAWN	JMG
CHECKED	JWD



PROJECT: BECKETT BRIDGE REPLACEMENT

DESCRIPTION: PROFILE (2)

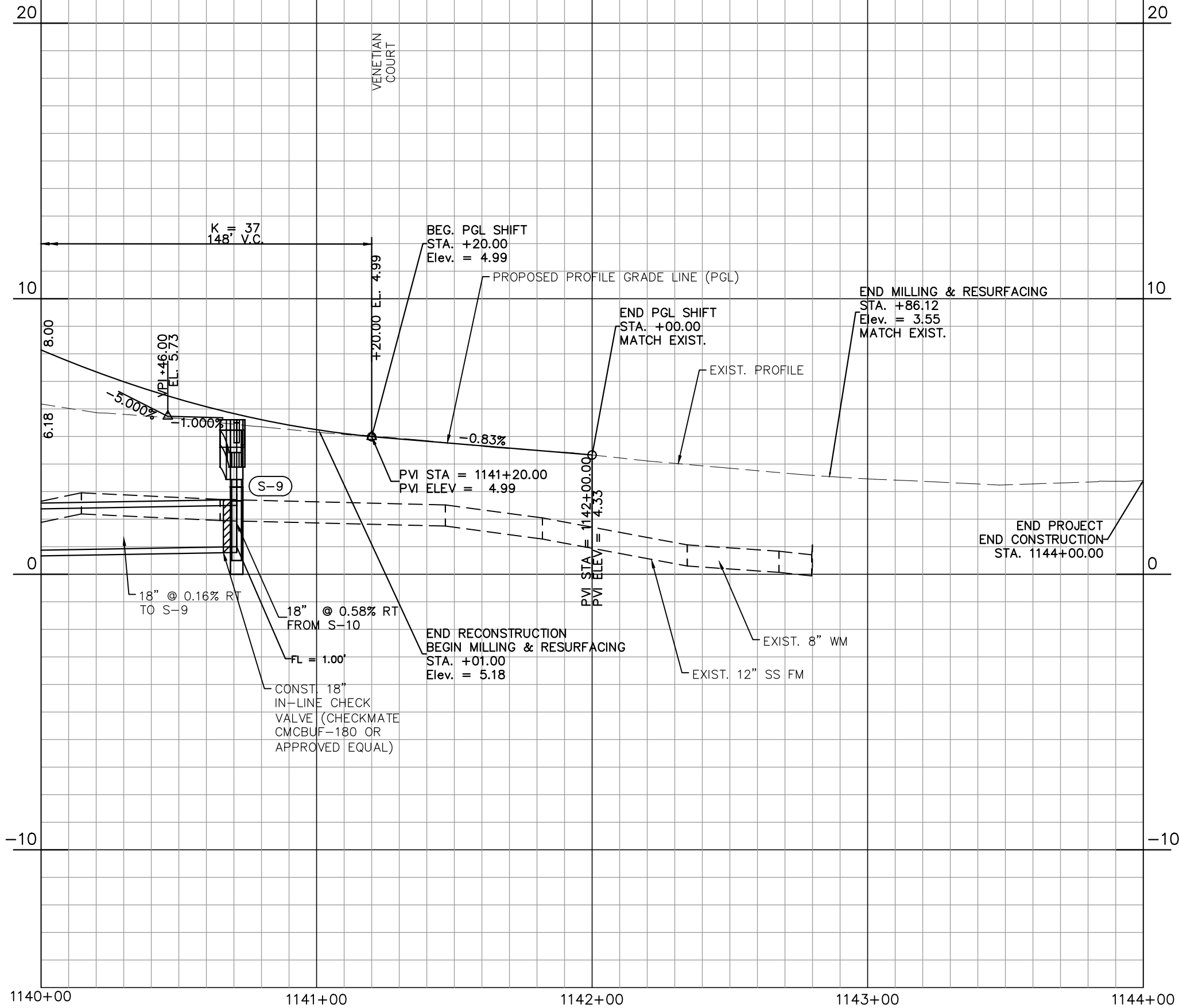
HARDESTY & HANOVER, LLC.
5110 EISENHOWER BLVD.
SUITE 310
TAMPA, FL 33634
CERTIFICATION OF AUTHORIZATION # 29741

APPROVED BY: 
ENGINEER OF RECORD
JAMES WEBB JONES, III, P.E.
FLA. LIC. NO 56950

DATE: JUNE 2021
PROJECT NO. 001037A
SHEET: 19 OF 55

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Scale:
1"=40' Horiz.
1"=10' Vert.

REV. NO.	DATE	DESCRIPTION	REV. BY

DESIGNED	MPJ
DRAWN	JMG
CHECKED	JWD



PROJECT: BECKETT BRIDGE REPLACEMENT

DESCRIPTION: PROFILE (3)

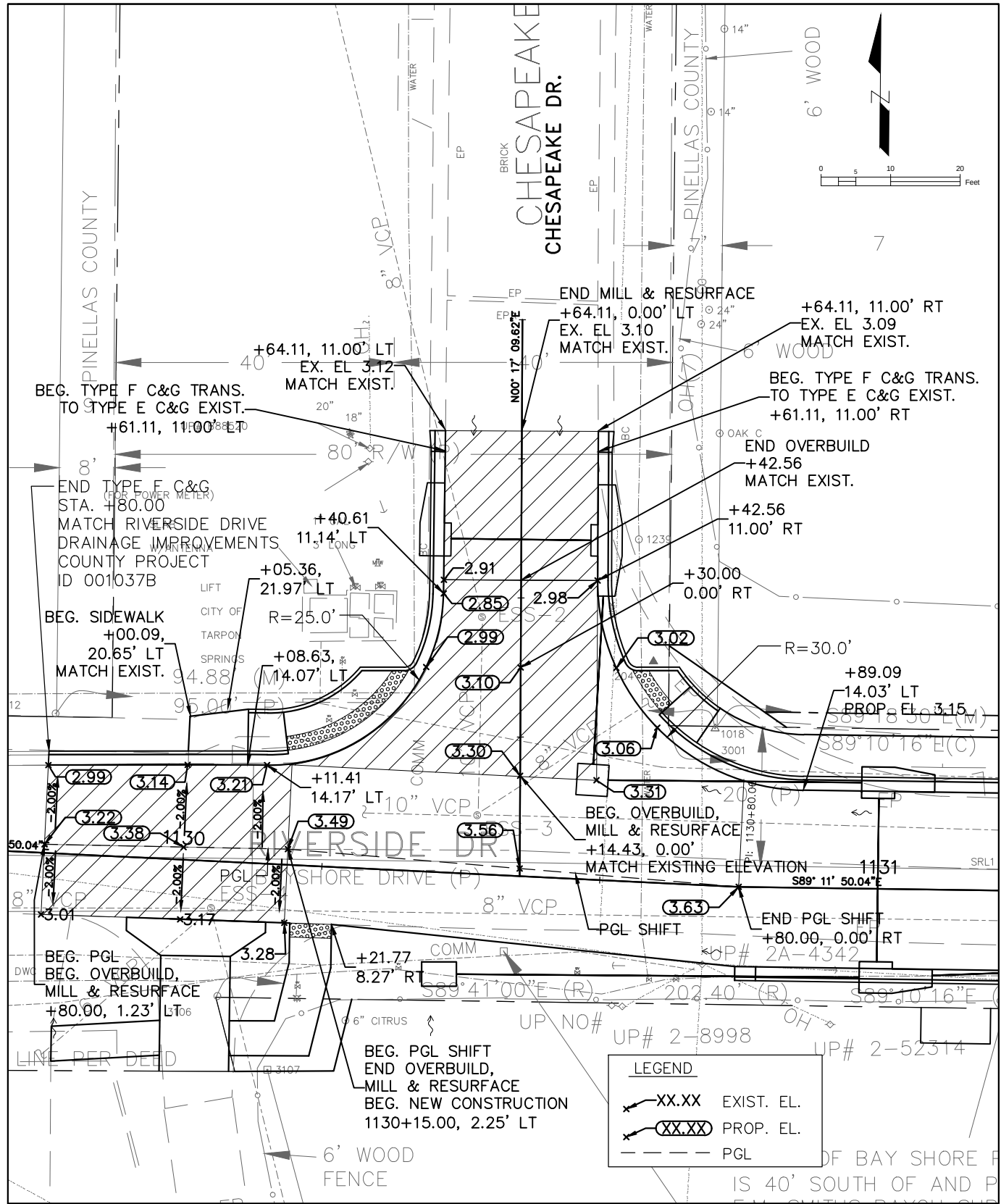
HARDESTY & HANOVER, LLC.
5110 EISENHOWER BLVD.
SUITE 310
TAMPA, FL 33634
CERTIFICATION OF AUTHORIZATION # 29741

APPROVED BY: 
ENGINEER OF RECORD
JAMES WEBB JONES, III, P.E.
FLA. LIC. NO 56950

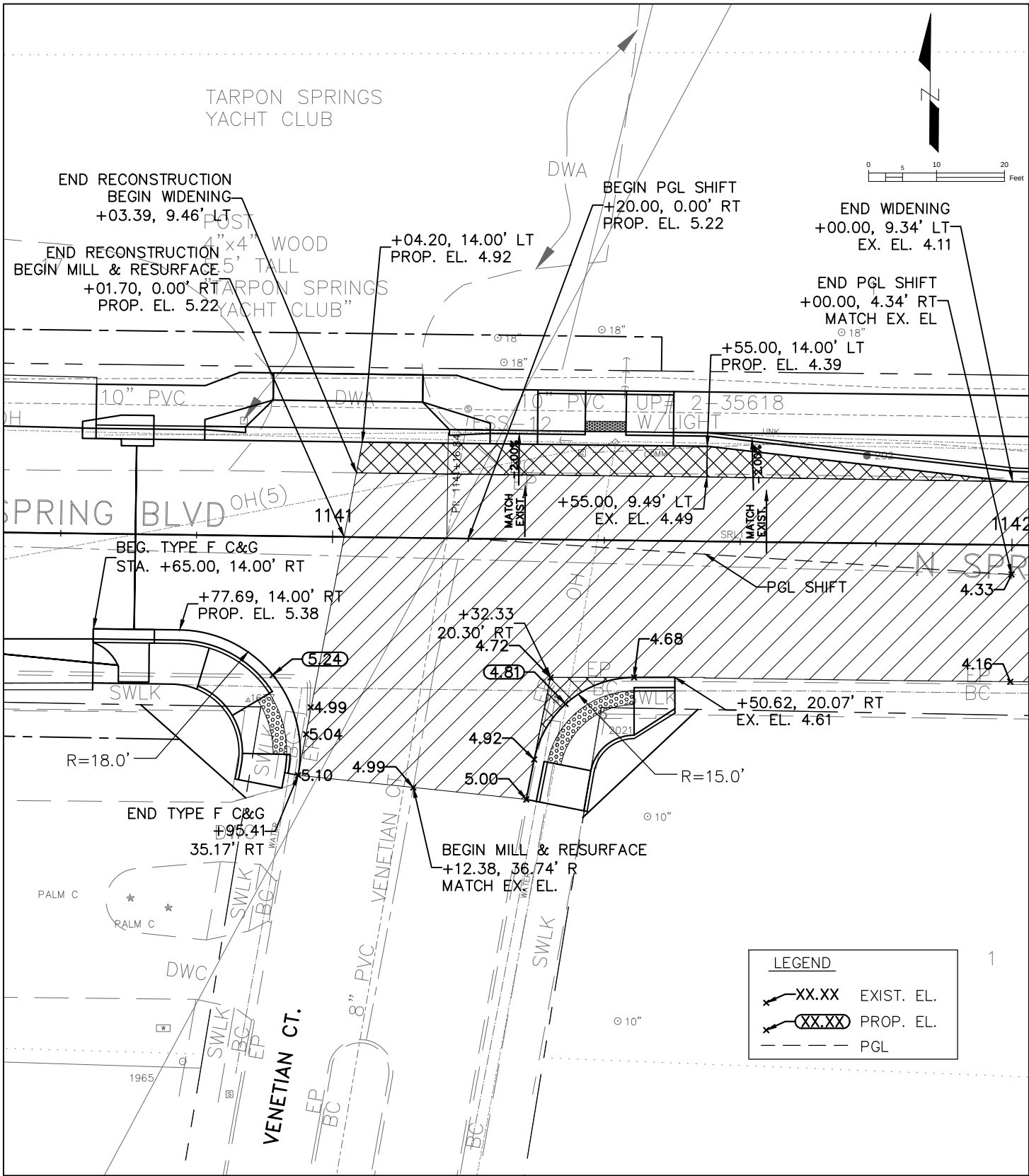
DATE: JUNE 2021
PROJECT NO. 001037A
SHEET: 20 OF 55

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CHESAPEAKE DRIVE INTERSECTION DETAIL

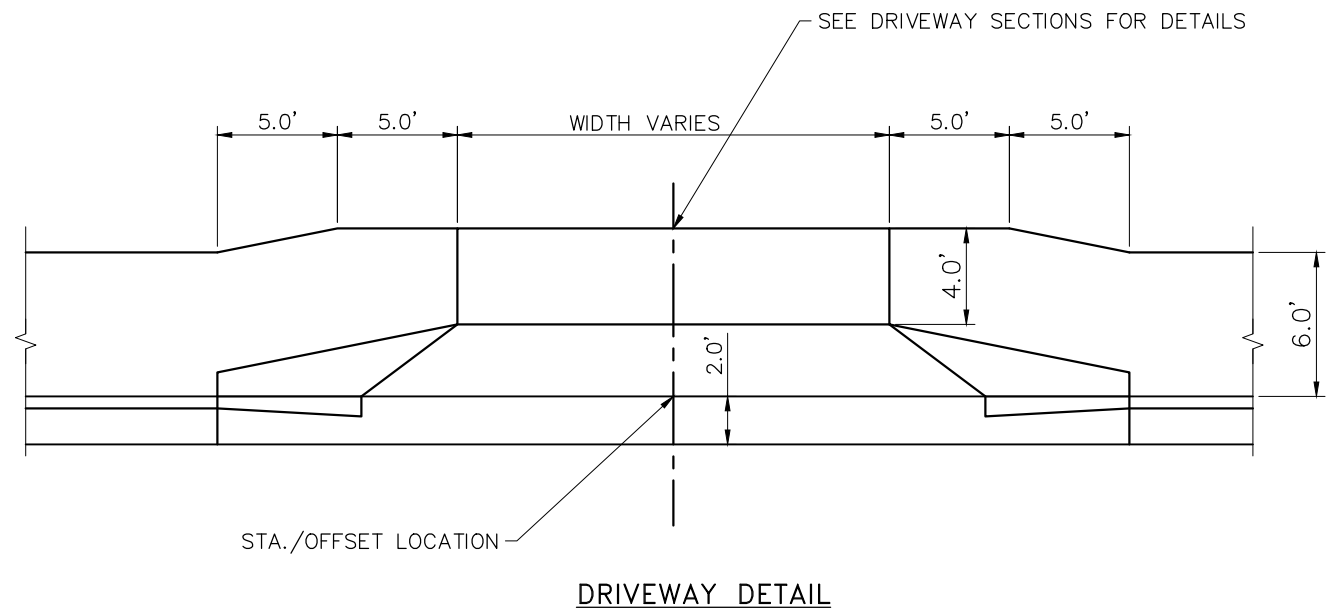


VENETIAN COURT INTERSECTION DETAIL

DESIGNED	MPJ	PROJECT:	BECKETT BRIDGE REPLACEMENT	DESCRIPTION:	INTERSECTION DETAILS	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741	APPROVED BY:	JUNE 2021
DRAWN	JMG						ENGINEER OF RECORD JAMES WEBB JONES, III, P.E. FLA. LIC. NO 56950	PROJECT NO. 001037A
CHECKED	JWD							SHEET: 21 OF 55
REV. NO.	DATE	DESCRIPTION	REV. BY					

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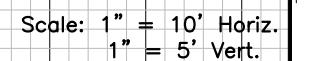


STATION	DRIVEWAY TYPE	DRIVEWAY WIDTH
1130+01.91	P.C.	10
1131+65.00	A 1	12
1132+68.00	A 1	12
1133+55.00	P.C.	14
1133+97.00	P.C.	12
1134+46.50	P.C.	15
1141+02.00	A 2	17

NOTE: SEE FDOT STANDARD INDEX 522-003 AND PC INDEX 1340 FOR DRIVEWAY GEOMETRY

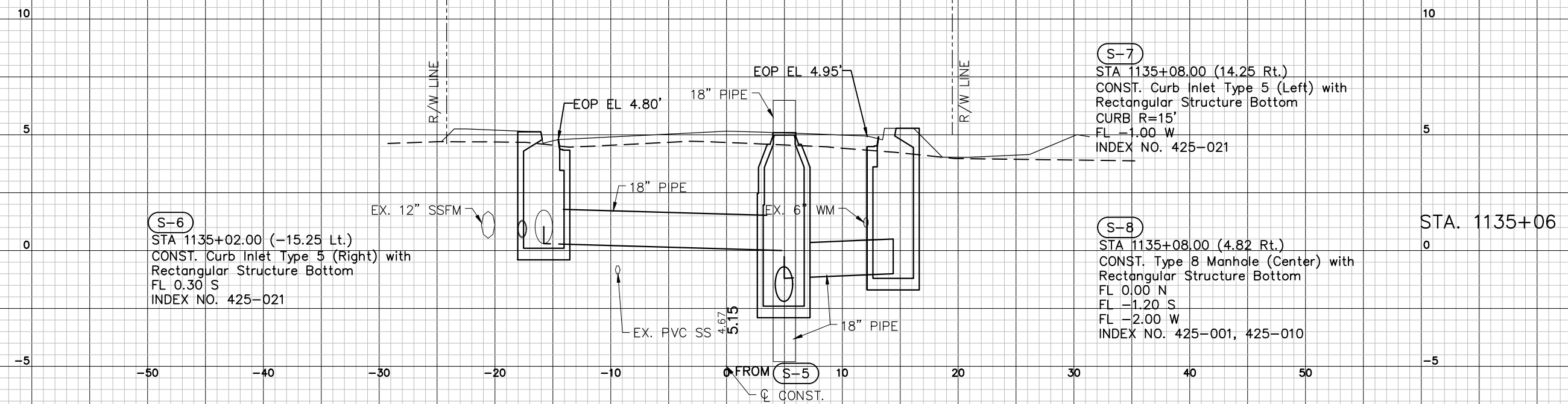
				DESIGNED MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: DRIVEWAY DETAIL	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY: ENGINEER OF RECORD JAMES WEBB JONES, III, P.E. FLA. LIC. NO 56950	DATE: JUNE 2021
				DRAWN JMG							PROJECT NO. 001037A
REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED JWD							SHEET: 22 OF 55

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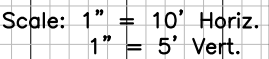


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				DRAWN	JMG									PROJECT NO.	001037A
				CHECKED	JWD									SHEET:	24 OF 55
REV. NO.	DATE	DESCRIPTION	REV. BY												

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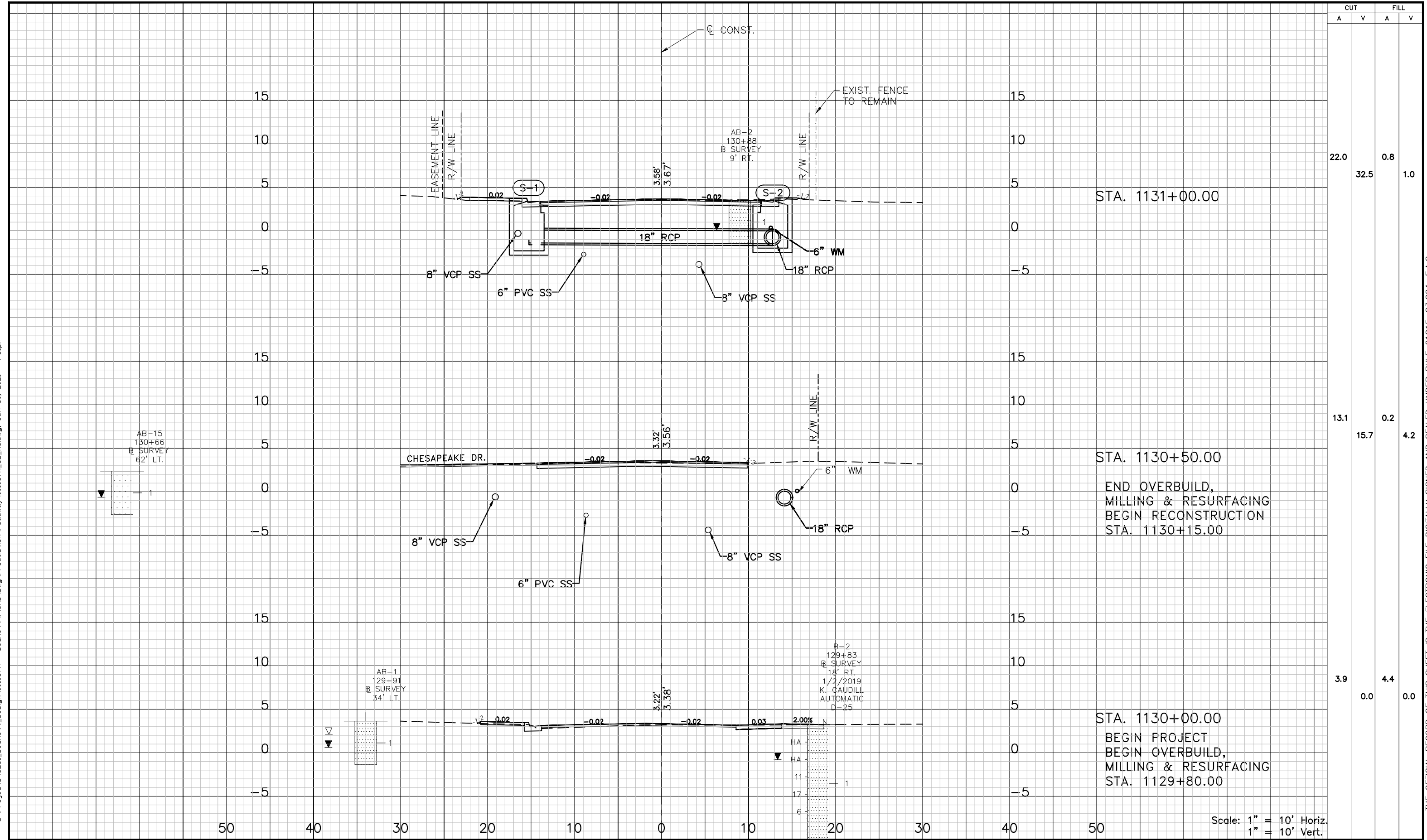


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				DRAWN	JMG									
				CHECKED	JWD									
REV. NO.	DATE	DESCRIPTION	REV. BY										ENGINEER OF RECORD JASON W. DUNN, P.E. FLA. LIC. NO 65039	SHEET:
														25 OF 55



				DESIGNED	MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: DRAINAGE STRUCTURES (4)	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY:	DATE: JUNE 2021
				DRAWN	JMG						PROJECT NO.	001037A
REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED	JWD						SHEET:	26 OF 55

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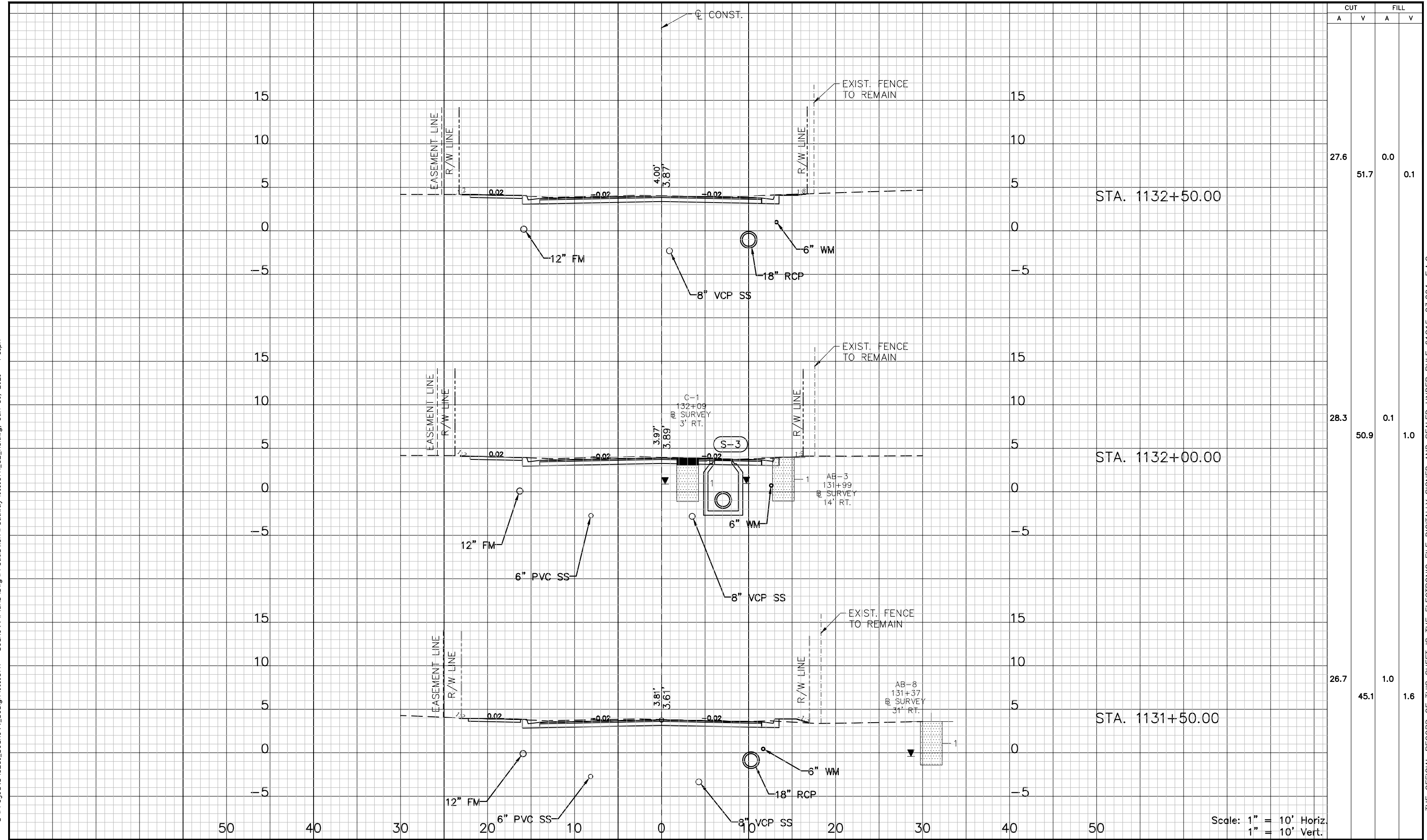


CUT		FILL	
A	V	A	V
22.0	32.5	0.8	1.0
13.1	15.7	0.2	4.2
3.9	0.0	4.4	0.0

DESIGNED	MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: CROSS SECTIONS (1)	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY: ENGINEER OF RECORD JAMES WEBB JONES, III, P.E. FLA. LIC. NO 56950	DATE:	JUNE 2021
DRAWN	JMG							PROJECT NO.	001037A
CHECKED	JWD							SHEET:	27 OF 55
REV. NO.	DATE	DESCRIPTION	REV. BY						

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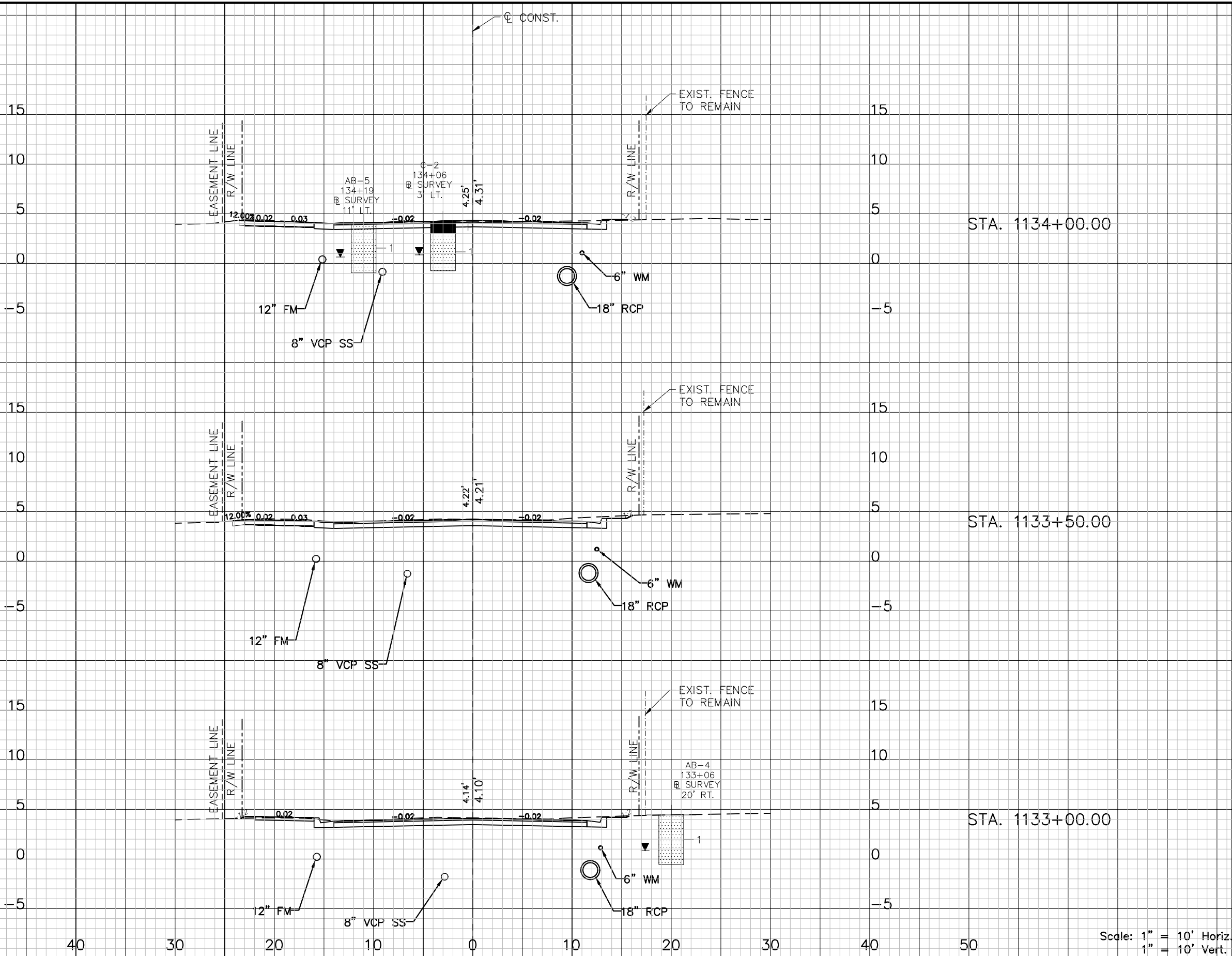


CUT		FILL	
A	V	A	V
27.6	51.7	0.0	0.1
28.3	50.9	0.1	1.0
26.7	45.1	1.0	1.6

DESIGNED	MPJ		PROJECT:	BECKETT BRIDGE REPLACEMENT	DESCRIPTION:	CROSS SECTIONS (2)	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY:	JUNE 2021
DRAWN	JMG		DESCRIPTION:	CROSS SECTIONS (2)	ENGINEER OF RECORD JAMES WEBB JONES, III, P.E. FLA. LIC. NO 56950	PROJECT NO. 001037A				
CHECKED	JWD		DESCRIPTION:	CROSS SECTIONS (2)	ENGINEER OF RECORD JAMES WEBB JONES, III, P.E. FLA. LIC. NO 56950	SHEET: 28 OF 55				
REV. NO.	DATE	DESCRIPTION	REV. BY							

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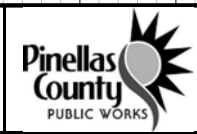
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CUT		FILL	
A	V	A	V
25.0	48.1	0.2	0.2
26.9	49.7	0.0	0.2
26.7	50.3	0.2	0.3

REV. NO.	DATE	DESCRIPTION	REV. BY

DESIGNED	MPJ
DRAWN	JMG
CHECKED	JWD



PROJECT: BECKETT BRIDGE REPLACEMENT

DESCRIPTION: CROSS SECTIONS (3)

HARDESTY & HANOVER, LLC.
5110 EISENHOWER BLVD.
SUITE 310
TAMPA, FL 33634
CERTIFICATION OF AUTHORIZATION # 29741

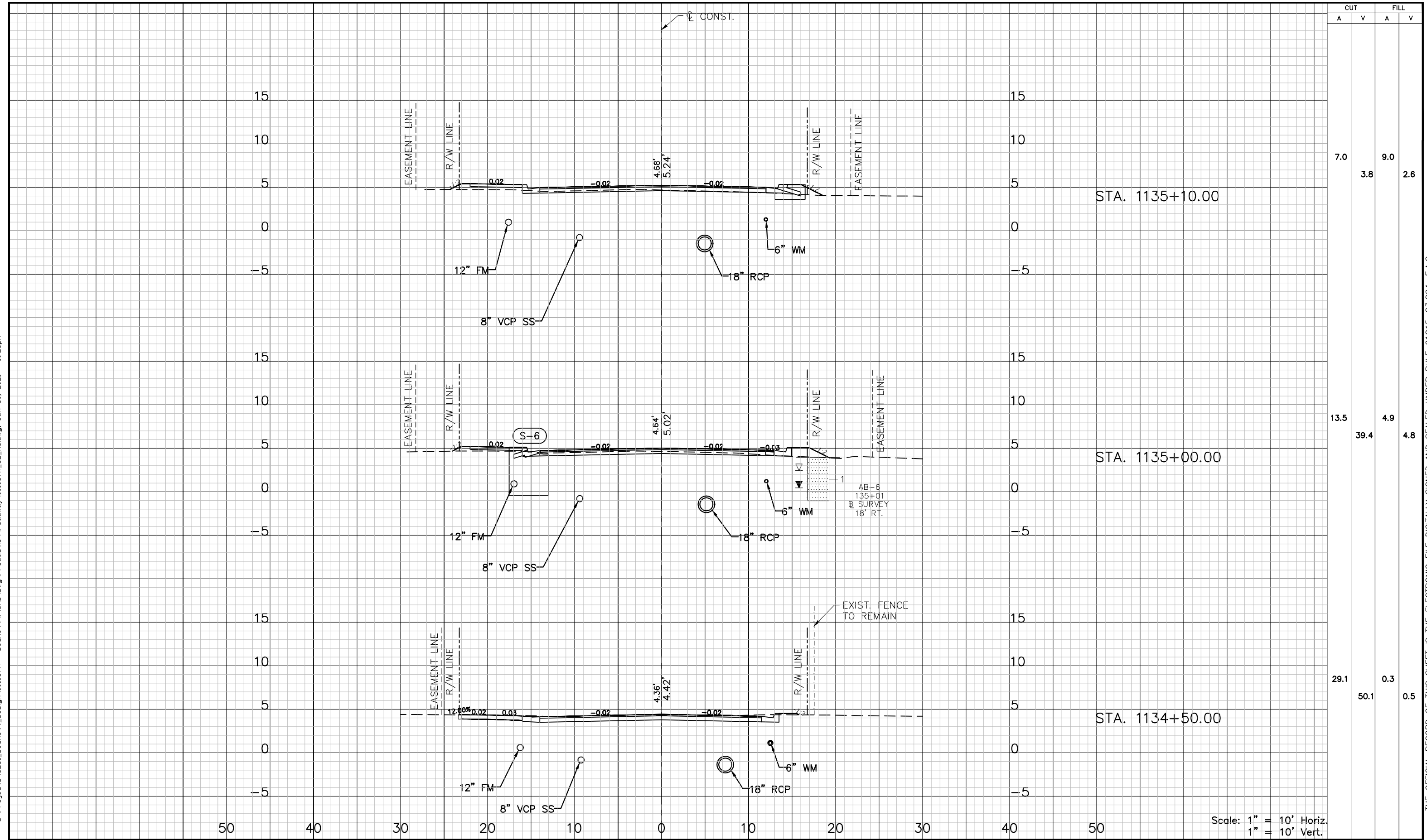
APPROVED BY: [Signature]
ENGINEER OF RECORD
JAMES WEBB JONES, III, P.E.
FLA. LIC. NO 56950

DATE: JUNE 2021
PROJECT NO. 001037A
SHEET: 29 OF 55

Scale: 1" = 10' Horiz.
1" = 10' Vert.

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CUT		FILL	
A	V	A	V
7.0	3.8	9.0	2.6
13.5	39.4	4.9	4.8
29.1	50.1	0.3	0.5

REV. NO.	DATE	DESCRIPTION	REV. BY

DESIGNED	MPJ
DRAWN	JMG
CHECKED	JWD



PROJECT: BECKETT BRIDGE REPLACEMENT

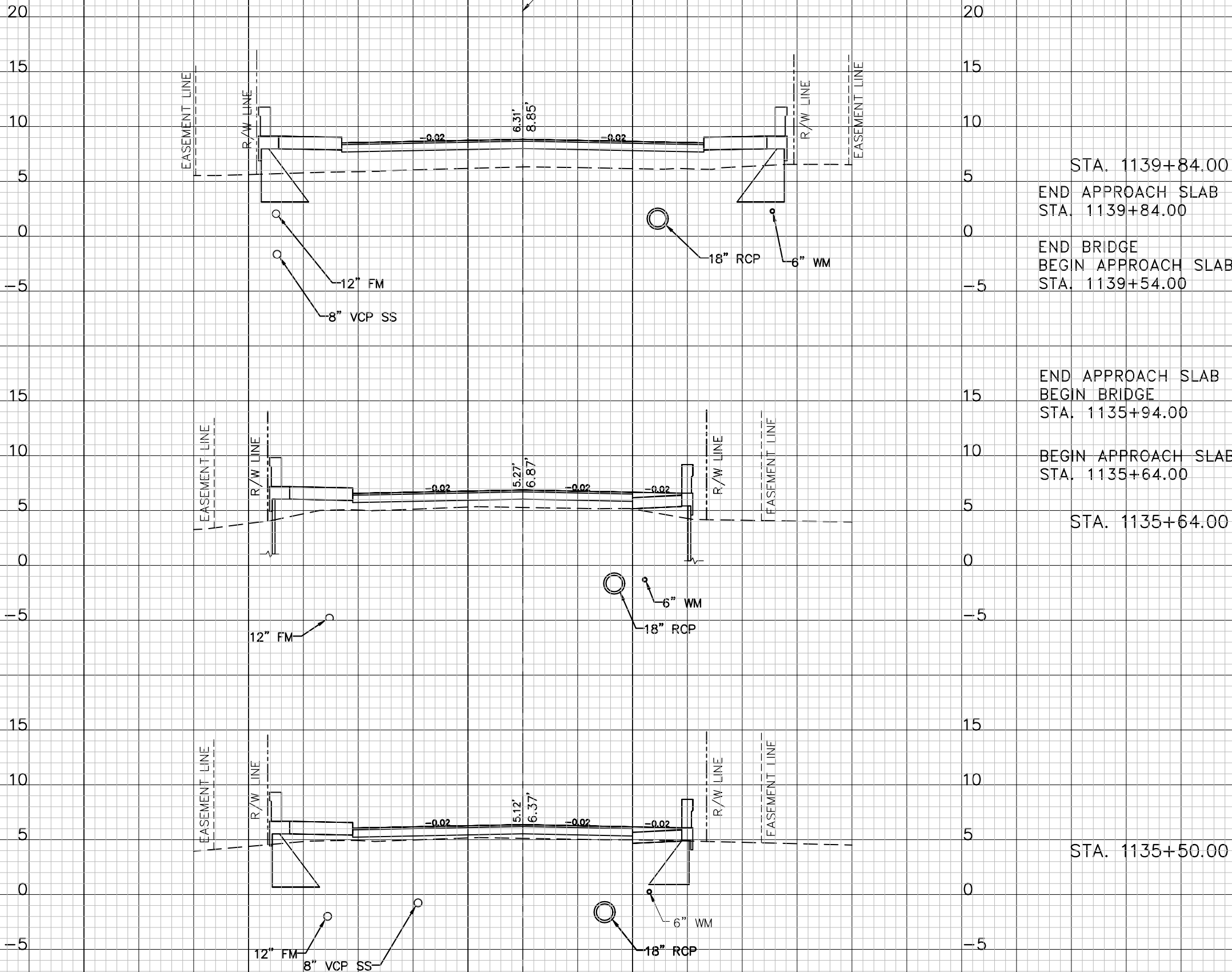
DESCRIPTION: CROSS SECTIONS (4)

HARDESTY & HANOVER, LLC.
5110 EISENHOWER BLVD.
SUITE 310
TAMPA, FL 33634
CERTIFICATION OF AUTHORIZATION # 29741

APPROVED BY: 
ENGINEER OF RECORD
JAMES WEBB JONES, III, P.E.
FLA. LIC. NO 56950

DATE: JUNE 2021
PROJECT NO. 001037A
SHEET: 30 OF 55

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CUT		FILL	
A	V	A	V
4.9	2.7	81.4	46.7
0.0	0.0	0.0	0.0
0.0	2.5	0.0	18.9
4.5	9.6	34.1	14.5
32.5	29.3	21.9	22.9

DATE: JUNE 2021

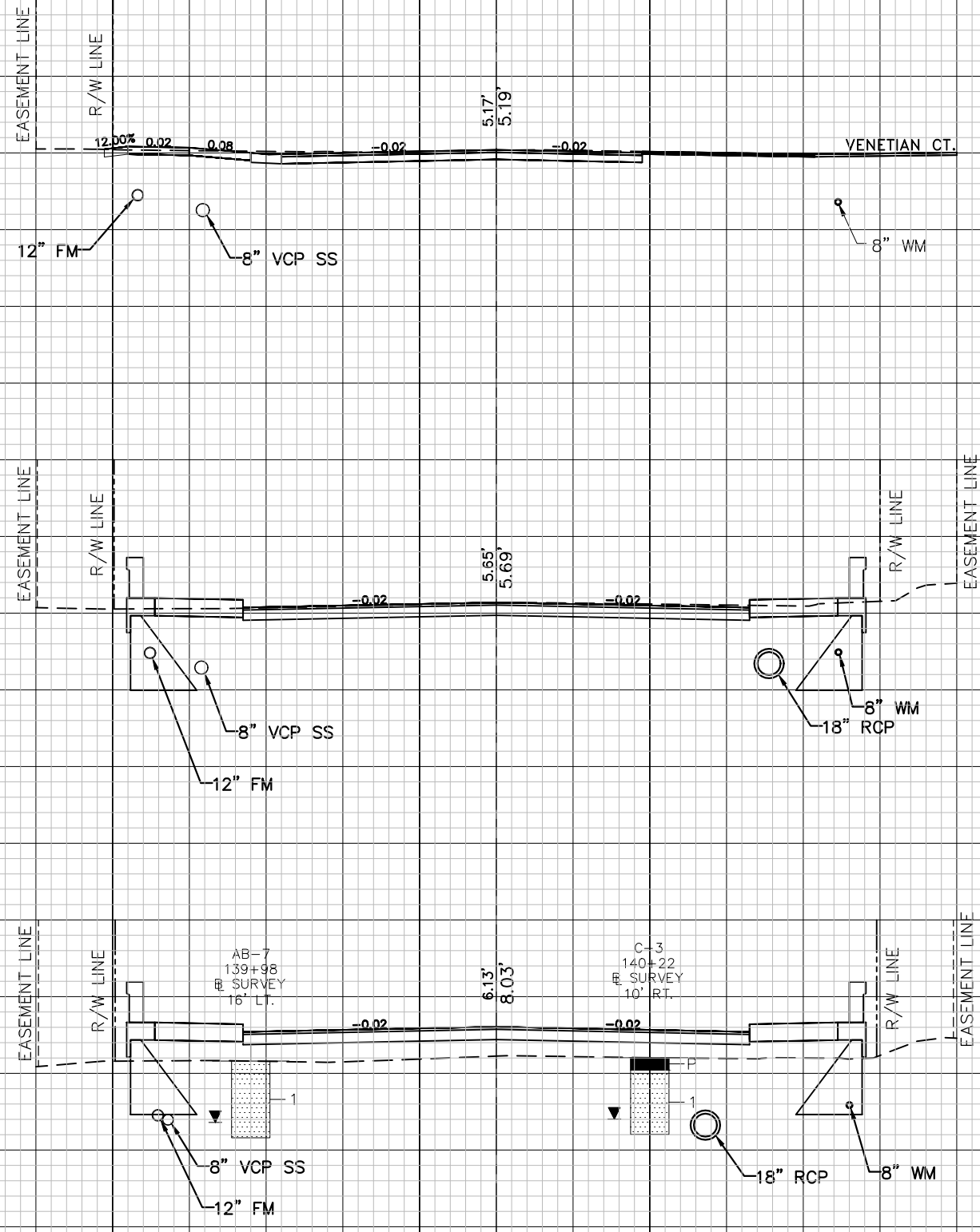
PROJECT NO. 001037A

SHEET: 31 OF 55

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END RECONSTRUCTION
BEGIN MILLING & RESURFACING
STA. 1141+01.00

STA. 1141+00.00

STA. 1140+50.00

STA. 1140+00.00

Scale: 1" = 10' Horiz.
1" = 10' Vert.

CUT		FILL	
A	V	A	V
21.6	66.7	0.3	1.6
50.4	76.1	1.4	50.4
31.8	10.9	53.0	40.1

REV. NO.	DATE	DESCRIPTION	REV. BY

DESIGNED	MPJ
DRAWN	JMG
CHECKED	JWD



PROJECT: BECKETT BRIDGE REPLACEMENT

DESCRIPTION: CROSS SECTIONS (6)

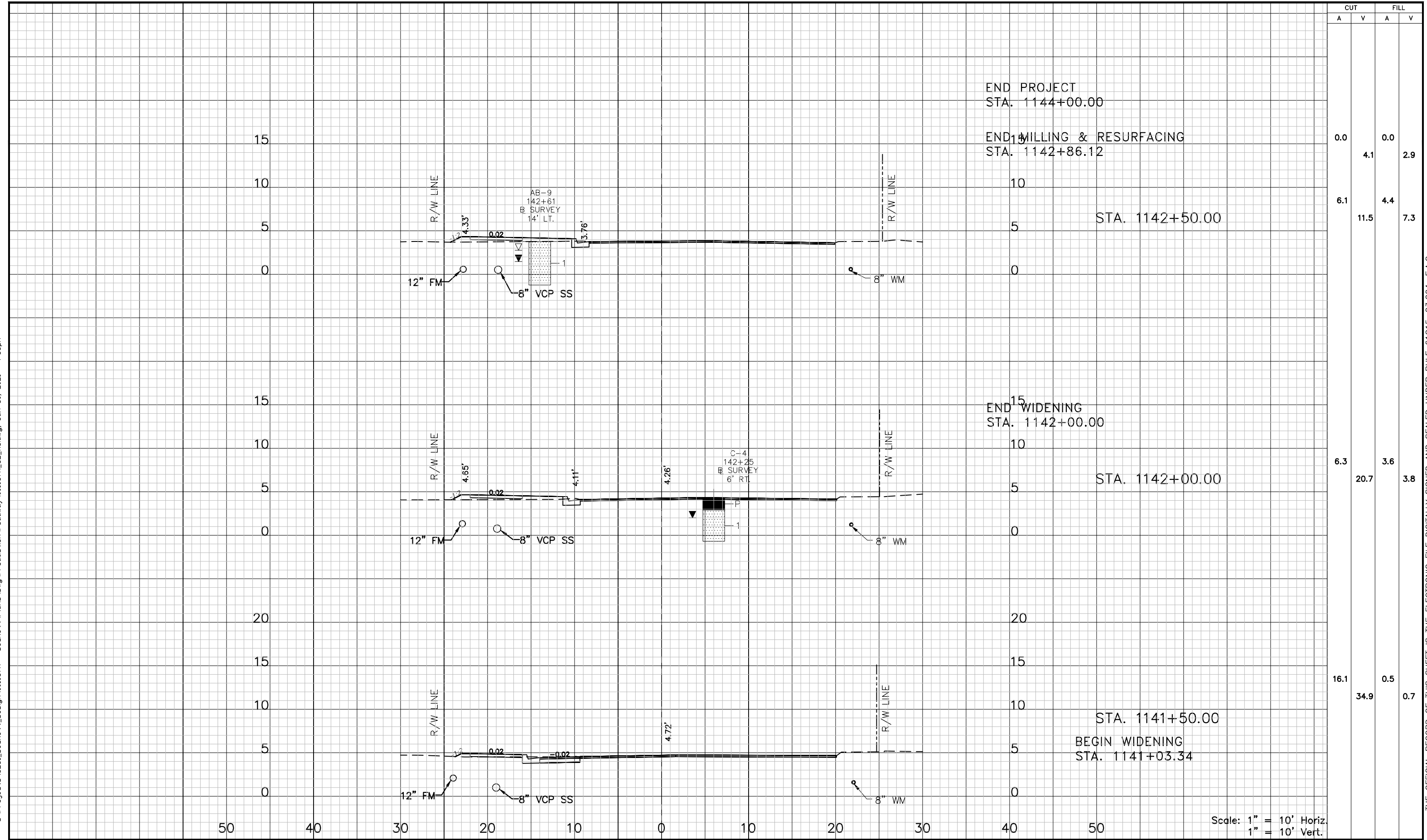
HARDESTY & HANOVER, LLC.
5110 EISENHOWER BLVD.
SUITE 310
TAMPA, FL 33634
CERTIFICATION OF AUTHORIZATION # 29741

APPROVED BY: ENGINEER OF RECORD
JAMES WEBB JONES, III, P.E.
FLA. LIC. NO 56950

DATE: JUNE 2021
PROJECT NO. 001037A
SHEET: 32 OF 55

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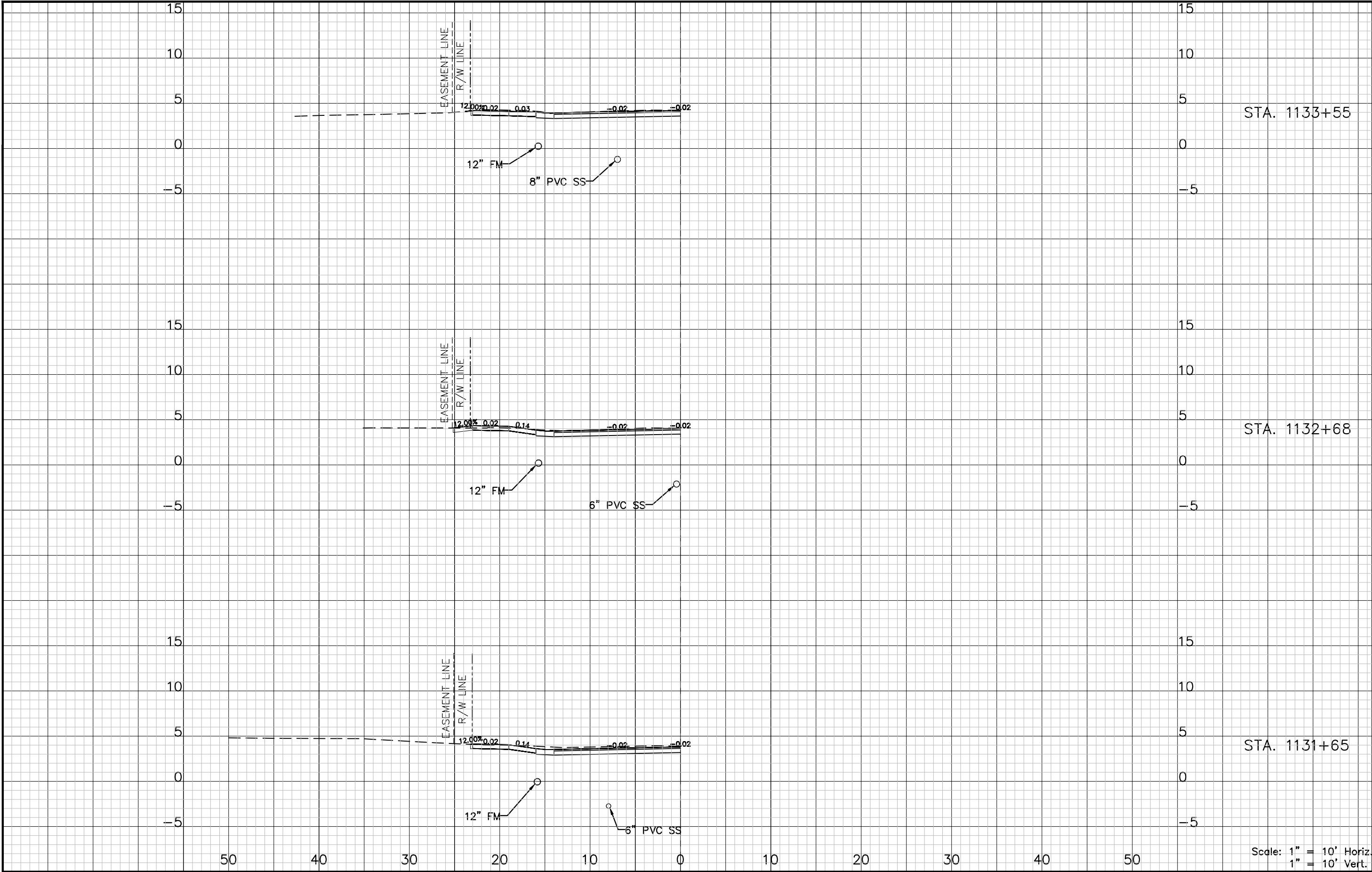
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				DESIGNED	MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: CROSS SECTIONS (7)	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY:	DATE: JUNE 2021
				DRAWN	JMG						PROJECT NO. 001037A	
				CHECKED	JWD						SHEET: 33 OF 55	
REV. NO.	DATE	DESCRIPTION	REV. BY									

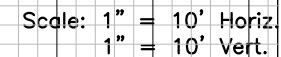
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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				DESIGNED	MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: DRIVEWAY SECTIONS (1)	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY: ENGINEER OF RECORD JAMES WEBB JONES, III, P.E FLA. LIC. NO 56950	DATE: JUNE 2021
				DRAWN	JMG							PROJECT NO. 001037A
REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED	JWD							SHEET: 34 OF 55

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				DESIGNED	MPJ		PROJECT:	BECKETT BRIDGE REPLACEMENT	DESCRIPTION:	DRIVEWAY SECTIONS (2)	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY:	DATE:
				DRAWN	JMG									JUNE 2021
				CHECKED	JWD									PROJECT NO. 001037A
REV. NO.	DATE	DESCRIPTION	REV. BY	SHEET: 35 OF 55										

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I. SITE DESCRIPTION

A. CONSTRUCTION ACTIVITY

THE PURPOSE OF THIS PROJECT IS TO RECONSTRUCT THE ROADWAY APPROACHES REQUIRED FOR THE REPLACEMENT OF THE EXISTING BECKETT BRIDGE ALONG RIVERSIDE DRIVE BETWEEN CHESAPEAKE DRIVE AND VENETIAN COURT.

B. PROJECT LIMITS

RIVERSIDE DRIVE FROM CHESAPEAKE DRIVE TO VENETIAN COURT.

C. PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO RECONSTRUCT THE ROADWAY APPROACHES REQUIRED FOR THE REPLACEMENT OF THE EXISTING HISTORIC BECKETT BRIDGE WITH A NEW 360-FOOT SINGLE-LEAF, ROLLING-LIFT, BASCULE BRIDGE THAT CARRIES RIVERSIDE DRIVE OVER WHITCOMB BAYOU AND FEATURES TWO TRAFFIC LANES, SHOULDERS AND A SIDEWALK. (THE NEW BRIDGE REPLACEMENT WILL BE CONSTRUCTED AT A HIGHER ELEVATION THAN THE EXISTING BRIDGE; NEW ROADWAY APPROACHES WILL BE BUILT WITH A MINOR GRADE SEPARATION APPROXIMATELY 3 FEET IN HEIGHT. AN OFFSETTING ALIGNMENT IN THE EXISTING ROADWAY AT EACH END OF THE 300-FOOT SPAN STRUCTURE REQUIRED A HORIZONTAL ALIGNMENT DESIGN ALONG THE STRUCTURE WITH REVERSE CURVATURE TO CONNECT TO THE EXISTING ROADWAY ON BOTH ENDS. A NARROW RIGHT-OF-WAY ALONG BOTH APPROACHES REQUIRED RETAINING WALLS TO KEEP THE EMBANKMENT ALONG THE GRADE SEPARATION FROM IMPACTING PRIVATE PROPERTIES.)

D. MAJOR SOIL DISTURBING ACTIVITIES

REPLACEMENT OF THE EXISTING BRIDGE STRUCTURES AND THE RECONSTRUCTION OF THE ROADWAY APPROACHES.

E. TOTAL PROJECT AREA: 2.12 ACRES
TOTAL AREA TO BE DISTURBED: 2.12 ACRES

F. RUNOFF DATA

NO ADDITIONAL IMPERVIOUS AREA IS PROPOSED. POST CONSTRUCTION RUNOFF EQUALS PRE CONSTRUCTION RUNOFF.

G. SOIL DATA

BASED ON THE CURRENT USDA NATURAL RESOURCE CONSERVATION SERVICE, SOIL SURVEY OF PINELLAS COUNTY, FLORIDA: ASTATULA SOILS, MATLACHA AND ST. AUGUSTINE SOILS, TAVERES SOILS AND URBAN LAND.

H. DRAINAGE AREA (ATTACH DRAINAGE MAP OR PROVIDE DRAINAGE AREA IN ACRES)

SEE DRAINAGE MAP ON SHEET 3.

I. RECEIVING WATERS

WHITCOMB BAYOU

J. WETLANDS AREAS

THE WIDENED BRIDGE DECK WILL RESULT IN APPROXIMATELY 0.23 ACRES OF SHADING IMPACTS AND 0.04 ACRES OF FILL IMPACTS TO THE OPEN WATER PORTION OF WHITCOMB BAYOU.

II. CONTROLS

ALL CONTROLS SHALL BE CONSISTENT WITH PERFORMANCE STANDARDS FOR EROSION AND SEDIMENT CONTROL AND STORM-WATER TREATMENT SET FORTH IN s.62-40.432, F.A.C., THE APPLICABLE STORM-WATER OR ENVIRONMENTAL RESOURCE PERMITTING REQUIREMENTS OF THE DEPARTMENT OR A WATER MANAGEMENT DISTRICT AND THE GUIDELINES CONTAINED IN THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DEP, 1988) AND ANY SUBSEQUENT AMENDMENTS.

A. SEQUENCE OF MAJOR ACTIVITIES

CLEARING AND GRUBBING OF EARTHWORK ASSOCIATED WITH THE ROADWAY APPROACH RECONSTRUCTION.

DEMOLITION AND REMOVAL OF EXISTING BRIDGE STRUCTURES.

CONSTRUCTION OF THE PROPOSED REPLACEMENT BRIDGE.

CONSTRUCTION OF ALL DRAINAGE INLETS AND ROADWAY APPROACHES WILL BE COMPLETED.

WHEN CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE EROSION PROTECTION DEVICES AND CONSTRUCTION ENTRANCE AS REQUIRED.

B. EROSION AND SEDIMENT CONTROL CONSTRUCTION ACTIVITIES

THE CONTRACTOR IS REQUIRED TO REVIEW THE SITE SPECIFIC EROSION CONTROL PLAN. THE CONTRACTOR MAY ALSO BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS OR SITE CONDITIONS. CONTRACTOR WILL COMPLY WITH E & S PLAN. ANY MODIFICATIONS TO THIS PLAN MUST BE SIGNED BY A PROFESSIONAL ENGINEER REPRESENTING THE CONTRACTOR. THE EROSION CONTROL DEVICES, DETAILS, AND NOTES APPLICABLE TO THESE ACTIVITIES ARE SPECIFIED IN THE PLANS. THE PROJECT ENGINEER IS RESPONSIBLE FOR DETERMINING IF ADDITIONAL CONTROLS ARE THE PROJECT ENGINEER MAY REQUIRE ADDITIONAL CONTROLS TO MEET STANDARDS AND REGULATIONS.

PERFORM DAILY INSPECTION OF EROSION AND SEDIMENT CONTROLS AFTER EVERY ½" RAINFALL.

REMOVE ALL SEDIMENTS THAT HAVE MIGRATED OFF SITE AS DIRECTED BY THE ENGINEER.

C. STABILIZATION PRACTICES

DURING CONSTRUCTION THE CONTRACTOR WILL PROVIDE STABILIZATION FOR AREAS WHICH HAVE BEEN CLEARED AND NOT REWORKED WITHIN FOURTEEN (14) CALENDAR DAYS. THE CONTRACTOR MAY UTILIZE TEMPORARY SEEDING OR TEMPORARY SODDING IN ACCORDANCE WITH SECTION 570 OF THE "FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

- _____ TEMPORARY SODDING
- _____ TEMPORARY GRASSING
- _____ PERMANENT SODDING OR SEEDING
- _____ PRESERVATION OF NATURAL RESOURCES
- _____ BUFFER ZONES

D. STRUCTURAL PRACTICES

- _____ ARTIFICIAL COVERINGS/ ROLLED EROSION CONTROL PRODUCTS (SY)
- X INLET PROTECTION SYSTEM (EA)
- _____ LITTER REMOVAL AND DISPOSAL (AC)
- _____ MOWING (AC)
- _____ SLOPE DRAINS (TEMPORARY)/ RUNOFF CONTROL STRUCTURES (LF)
- _____ SOIL TRACKING PREVENTION DEVICE (EA)
- _____ SEDIMENT BASINS/CONTAINMENT SYSTEMS (EA)
- _____ SEDIMENT BASIN/ CONTAINMENT SYSTEM CLEANOUT (EA)
- X FLOATING TURBIDITY BARRIER (LF)
- X SEDIMENT BARRIERS (LF)
- _____ CHEMICAL TREATMENT - POWDERED (SY)
- _____ CHEMICAL TREATMENT (FLOC LOGS, DRUMS OF PRODUCT) (EA)
- _____ OTHER

E. DESCRIPTION OF STORM WATER MANAGEMENT

ROADWAY RUNOFF WILL BE COLLECTED BY INLETS LOCATED ON THE EDGE OF ROADWAY AND DISCHARGE TO WHITCOMB BAYOU.

F. WASTE DISPOSAL

THE CONTRACTOR SHALL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES. ANY CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER. NO SOLID MATERIALS INCLUDING BUILDING & CONSTRUCTION MATERIALS SHALL BE DISCHARGED TO WETLANDS OR BURIED ON SITE. ALL WASTE MATERIAL WILL BE COLLECTED AND STORED IN DUMPSTERS PER LOCAL SOLID WASTE REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF TWICE A WEEK OR MORE OFTEN IF NECESSARY, AND THE TRASH WILL BE HAULED TO THE APPROPRIATE COUNTY LOCATION FOR DUMPING.

G. OFFSITE VEHICLE TRACKING

STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREETS WILL BE CLEANED AS DIRECTED BY THE CONSTRUCTION INSPECTOR AND ENGINEER TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM OR TO THE SITE WILL BE COVERED WITH A TARPAULIN AT ALL TIMES.

H. SANITARY WASTE

FDOT STANDARD SPEC. FOR ROAD AND BRIDGE CONSTRUCTION" SECTION 7 - 6 "SANITARY PROVISIONS. "THE CONTRACTOR SHALL PROVIDE AND MAINTAIN, IN A NEAT AND SANITARY CONDITION, SUCH ACCOMMODATION FOR THE USE OF HIS EMPLOYEES AS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS AND REGULATIONS OF THE STATE AND LOCAL BOARDS OF HEALTH. COMMIT NO PUBLIC NUISANCE."

I. HAZARDOUS WASTE

THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE COUNTY IN WRITING IF ANY HAZARDOUS WASTE MATERIAL IS ENCOUNTERED DURING SITE INVESTIGATION OR CONSTRUCTION.

THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR NOTIFYING THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) WITHIN 24 HOURS OF THE DISCOVERY.

ALL HAZARDOUS WASTE MATERIALS, IF ENCOUNTERED, WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND FEDERAL REGULATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

IN CASE OF DISPOSING ANY HAZARDOUS WASTE MATERIAL FOLLOWING LOCAL, STATE, AND FEDERAL REGULATIONS, A COPY OF DISPOSAL MANIFEST HAS TO BE PROVIDED TO THE COUNTY IN TIMELY FASHION.

PERMITTEE CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

IVAN J. FERNANDEZ, P.E., MANAGER
TECHNICAL SERVICES, PUBLIC WORKS, PINELLAS COUNTY, APPLICANT-AUTHORIZED AGENT FOR THE PINELLAS COUNTY BOARD OF COUNTY COMMISSIONERS.

DATE

CONTRACTOR CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH , THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

GENERAL CONTRACTOR NAME & TITLE

DATE

COMPANY NAME

COMPANY STREET ADDRESS

CITY, STATE, ZIP CODE

				DESIGNED	MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: STORMWATER POLLUTION PREVENTION PLAN (1)	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY: ENGINEER OF RECORD JASON W. DUNN, P.E. FLA. LIC. NO 65039	DATE:	JUNE 2021
				DRAWN	JMG							PROJECT NO.	001037A
REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED	JWD							SHEET:	36 OF 55

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J. WATER QUALITY MONITORING (MIXING ZONES)

THE WATER THAT WILL BE SAMPLED FOR STATE WATER QUALITY STANDARDS FOR CONSTRUCTION ACTIVITIES PROHIBIT A TURBIDITY INCREASE OF GREATER THAN 29 NTU'S ABOVE AMBIENT CONDITIONS AT THE COMPLIANCE LOCATION OF THE MIXING ZONES. TO MAINTAIN THIS STANDARD, TURBIDITY MONITORING SHALL OCCUR DURING ALL IN-WATER CONSTRUCTION ACTIVITIES AT EACH COMPLIANCE AND BACKGROUND STATION. THE FOLLOWING PROCEDURE SHALL BE USED:

FREQUENCY: TWICE A DAY, AT LEAST 4 HOURS APART DURING FREQUENCY OF ACTUAL CONSTRUCTION OPERATIONS.

LOCATIONS: ALL STATIONS SHALL BE SAMPLED AT 2 FEET ABOVE LOCATIONS THE BOTTOM, AT MID-DEPTH, AND AT THE SURFACE, OR AS DIRECTED BY PERMITTING AGENCIES. IF WATER IS LESS THAN THREE FEET DEEP, ONLY MID-DEPTH SAMPLES ARE REQUIRED.

BACKGROUND: 500 FEET UP-CURRENT FROM THE CONSTRUCTION BACKGROUND ACTIVITY AND OUTSIDE OF ANY TURBIDITY PLUME FROM THE CONSTRUCTION ACTIVITY.

COMPLIANCE: 300 FEET DOWN CURRENT FROM THE CONSTRUCTION COMPLIANCE ACTIVITY WITHIN ANY VISIBLE TURBIDITY PLUME, OR AS DIRECTED BY PERMITTING AGENCIES.

METHOD: ALL SAMPLES SHALL BE COLLECTED WITH A KEMMERER, VAN DORN METHOD, OR SIMILAR SAMPLER WHICH IS DESIGNED TO COLLECT IN SITU WATER SAMPLES.

REPORTING: ALL MONITORING DATA SHALL BE SUBMITTED WITHIN ONE REPORTING WEEK OF ANALYSIS WITH DOCUMENTS CONTAINING THE FOLLOWING INFORMATION:

1.

PERMIT NUMBER
2.

DATES OF SAMPLING AND ANALYSIS
3.

LOCATION OF SAMPLE (I.E., STATION AND WATER COLUMN LOCATION)
4.

A STATEMENT DESCRIBING THE METHODS USED IN COLLECTION, HANDLING,
5.

STORAGE, AND ANALYSIS OF THE SAMPLES
6.

A MAP INDICATING THE SAMPLING LOCATIONS
7.

STATEMENT, BY THE INDIVIDUAL RESPONSIBLE FOR IMPLEMENTATION OF THE SAMPLING PROGRAM, CONCERNING THE AUTHENTICITY, PRECISION, LIMITS OF DETECTION AND ACCURACY OF DATA.

MONITORING REPORTS SHALL INCLUDE INFORMATION ON THE GENERAL ANTECEDENT WEATHER CONDITIONS.

IF MONITORING REVEALS VIOLATIONS OF THE STATE WATER QUALITY STANDARD FOR TURBIDITY, CONSTRUCTION ACTIVITIES SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL CORRECTIVE MEASURES HAVE BEEN TAKEN AND TURBIDITY HAS RETURNED TO ACCEPTABLE LEVELS. ANY SUCH OCCURRENCE SHALL ALSO BE IMMEDIATELY REPORTED TO THE REGULATORY AGENCIES. IN THE EVENT THAT STATE WATER QUALITY STANDARDS ARE NOT ATTAINED, THE CONTRACTOR SHALL IMPLEMENT A CONTINGENCY PLAN WHICH COMPLIES WITH THE PROJECT SWFWMD/FDEP ERP AND PINELLAS COUNTY NPDES REQUIREMENTS AT NO ADDITIONAL COST TO THE COUNTY. ANY FINES SHALL BE RESPONSIBILITY OF THE CONTRACTORS.

K. APPROVED STATE, LOCAL PLANS, OR STORM WATER PERMITS
SWF WMD ERP 47042798.001

III. MAINTENANCE

A. ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTION AND MAINTENANCE OF ALL PERMANENT AND TEMPORARY EROSION CONTROL DEVICES THROUGHOUT ALL CONSTRUCTION PHASES OF THE PROJECT. MAINTENANCE SHALL BE IN ACCORDANCE WITH PINELLAS COUNTY D.E.I. "STANDARD TECHNICAL SPECIFICATIONS FOR ROADWAY AND RELATED CONSTRUCTION", AND THE PROJECT CONSTRUCTION CONTRACT.

B. INSPECTION

THE COUNTY INSPECTOR SHALL BE RESPONSIBLE FOR COMPLETING THE PINELLAS COUNTY D.E.I. NPDES / SWPPP CONSTRUCTION INSPECTION REPORT AFTER ANY ½" RAINFALL OR WEEKLY, IF NO RAIN EVENT OCCURRED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAIN FALL. THE COUNTY INSPECTOR SHALL ALSO COMPLETE THE PINELLAS COUNTY D.E.I. NPDES COMPLIANCE CHECKLIST FOR CONSTRUCTION SITES.

C. NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES MAY OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

- WATER FROM WATER LINE FLUSHING
- PAVEMENT WASH WATERS (WHERE NO SPILL OR LEAKS OF VEHICLE AND HAZARDOUS MATERIALS HAVE OCCURRED)
- UNCONTAMINATED GROUNDWATER FROM DE-WATERING ACTIVITIES

ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE OR AS DIRECTED BY THE ENGINEER. IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, DEWATERING SHOULD CEASE IMMEDIATELY AND THE ENGINEER WILL BE CONTACTED.

D. MATERIAL MANAGEMENT PRACTICES

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

1.

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE FOLLOWED ON-SITE DURING THE CONSTRUCTION PROJECT.

•

STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB ON SITE.

•

ALL MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR ORIGINAL MANUFACTURER'S LABELED CONTAINERS UNDER A ROOF OR OTHER CONTAINED ENCLOSURE.

•

SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.

•

WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED BEFORE DISPOSING OF THE CONTAINER. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.

•

THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON-SITE.
2.

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

•

PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RE-SEALABLE.

•

SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL OPENED CONTAINERS. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE KEPT ON-SITE ON THE CONSTRUCTION OFFICE TRAILER.

•

IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS OR LOCAL STATE RECOMMENDED METHODS OF PROPER DISPOSAL SHALL BE FOLLOWED.

•

THE CONTRACTOR MUST IDENTIFY A DESIGNATED FUEL TANK STORAGE AREA, AWAY FROM DRAINAGE STRUCTURES, PONDS, BASINS, AND WETLANDS, WITH SECONDARY CONTAINMENT (SPILL COLLECTION).
3.

CONCRETE TRUCKS

•

CONTRACTOR SHALL DESIGNATE AN AREA AWAY FROM DRAINAGE STRUCTURES, PONDS, BASINS, AND WETLANDS FOR DISCHARGE OF SURPLUS CONCRETE OR DRUM WASH WATER AND SHALL INSTALL A CONTAINMENT BERM AROUND THIS AREA TO PREVENT RUNOFF TO THE REMAINDER OF THE SITE.

•

HARD DEBRIS SHALL BE DISPOSED OF BY CONTRACTOR UPON COMPLETION OF THE PROJECT.

•

DISPOSAL OF CONCRETE SLURRY DIRECTLY INTO PUBLIC DRAINAGE SYSTEMS IS A VIOLATION OF THE "ILLCIT DISCHARGE" PROVISION OF THE PINELLAS COUNTY LAND DEVELOPMENT CODE. SECTION 58-239 OF THE PINELLAS COUNTY CODE AUTHORIZES PENALTIES OF UP TO \$10,000.00 FOR EACH OFFENSE.
4.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIALS MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP.

•

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

THE INFORMATION CLEANUP SUPPLIES.

- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
- THE SPILL PREVENTION PLAN WILL BE PREPARED BY THE CONTRACTOR AND KEPT IN THE CONSTRUCTION OFFICE TRAILER AND WILL INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE ARE OTHERS. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED. ALL SPILLS AND RESPONSES WILL BE REPORTED TO THE APPROPRIATE AGENCY.
- THE SITE SUPERINTENDENT WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ON SITE.
- USE AND CHARACTERISTICS OF FUEL OR CHEMICAL STORAGE TANK ON SITE SHALL COMPLY WITH ALL RELATED FEDERAL, STATE, AND LOCAL REGULATIONS. STORAGE TANKS MUST BE LOCATED AS FAR AS POSSIBLE FROM ANY DRAINAGE STRUCTURES, DITCHES, AND/OR SURFACE WATERS. IN ADDITION, THE CONTRACTOR MUST PROVIDE A SECONDARY CONTAINMENT WITH A LINER CHEMICALLY RESISTANT TO THE FUEL OR CHEMICAL STORED ON SITE. THE SECONDARY CONTAINMENT MUST BE SIZED TO CONTAIN MINIMUM OF ONE AND A HALF TIME THE TOTAL CAPACITY OF STORAGE TANK BEING USED. CONTRACTOR HAS TO PROVIDE A DAILY INSPECTION LOG FOR THE SECONDARY CONTAINMENT WITH INDICATION OF DATE, INSPECTORS NAME AND INSPECTION REPORT. FURTHERMORE, ANY CONTAMINATION HAS TO BE IMMEDIATELY CONTAINED AND THE COUNTY INSPECTOR MUST BE NOTIFIED OF THE NATURE AND EXTEND OF THE CONTAMINATION.

PERMITTEE CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

IVAN J. FERNANDEZ, P.E., MANAGER

DATE

TECHNICAL SERVICES, PUBLIC WORKS, PINELLAS COUNTY, APPLICANT-AUTHORIZED AGENT FOR THE PINELLAS COUNTY BOARD OF COUNTY COMMISSIONERS.

CONTRACTOR CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH , THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

GENERAL CONTRACTOR NAME & TITLE

DATE

COMPANY NAME

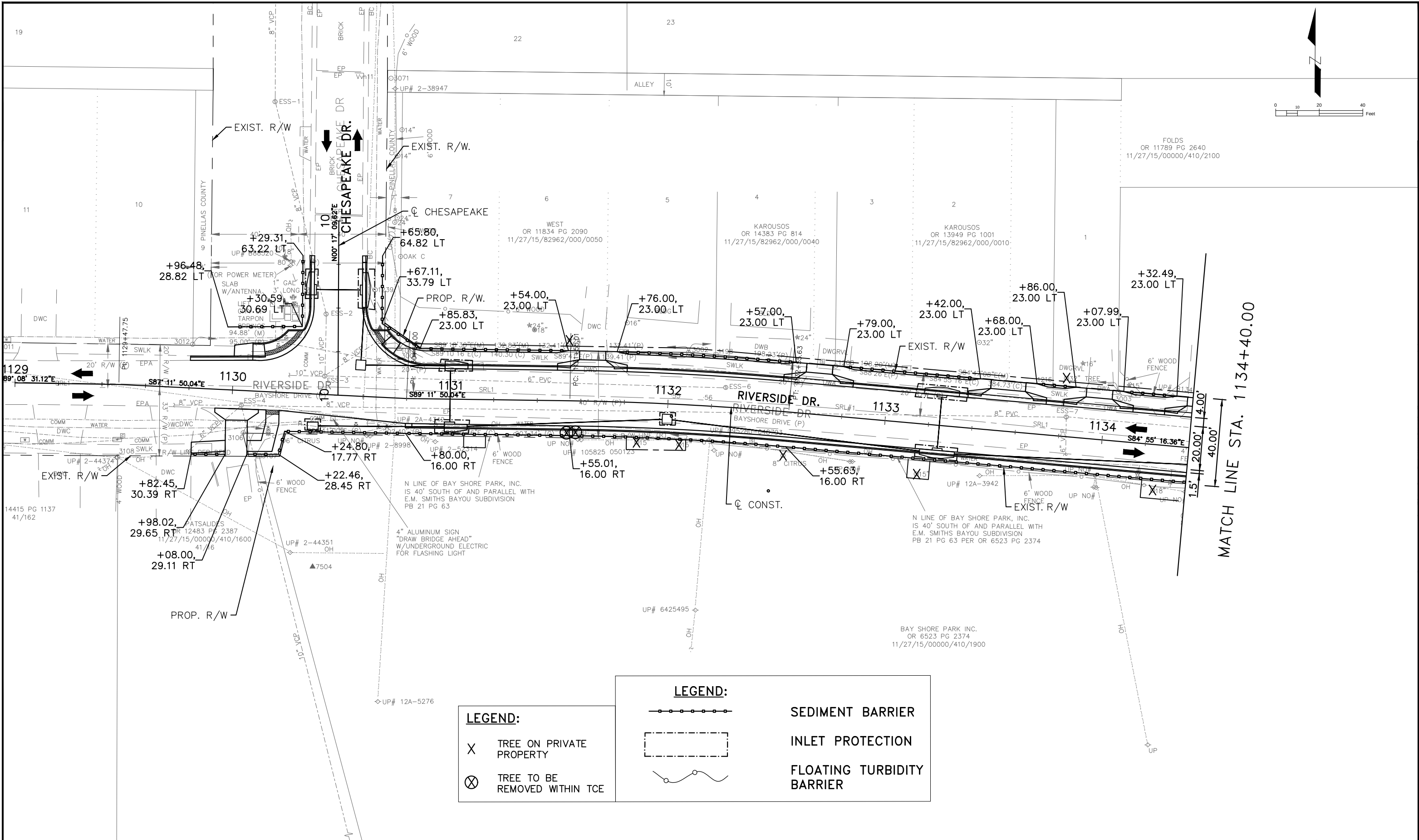
COMPANY STREET ADDRESS

CITY, STATE, ZIP CODE

				DESIGNEDMPJ		PROJECT:	DESCRIPTION:	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741	 APPROVED BY: ENGINEER OF RECORD JASON W. DUNN, P.E. FLA. LIC. NO 65039	DATE:
				DRAWNJMG		BECKETT BRIDGE REPLACEMENT	STORMWATER POLLUTION PREVENTION PLAN (2)			PROJECT NO.
				CHECKEDJWD						001037A
REV. NO.	DATE	DESCRIPTION	REV. BY							SHEET:
										37 OF 55

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- LEGEND:**
- X TREE ON PRIVATE PROPERTY
 - ⊗ TREE TO BE REMOVED WITHIN TCE

- LEGEND:**
- SEDIMENT BARRIER
 - — — — — INLET PROTECTION
 - ~ ~ ~ ~ ~ FLOATING TURBIDITY BARRIER

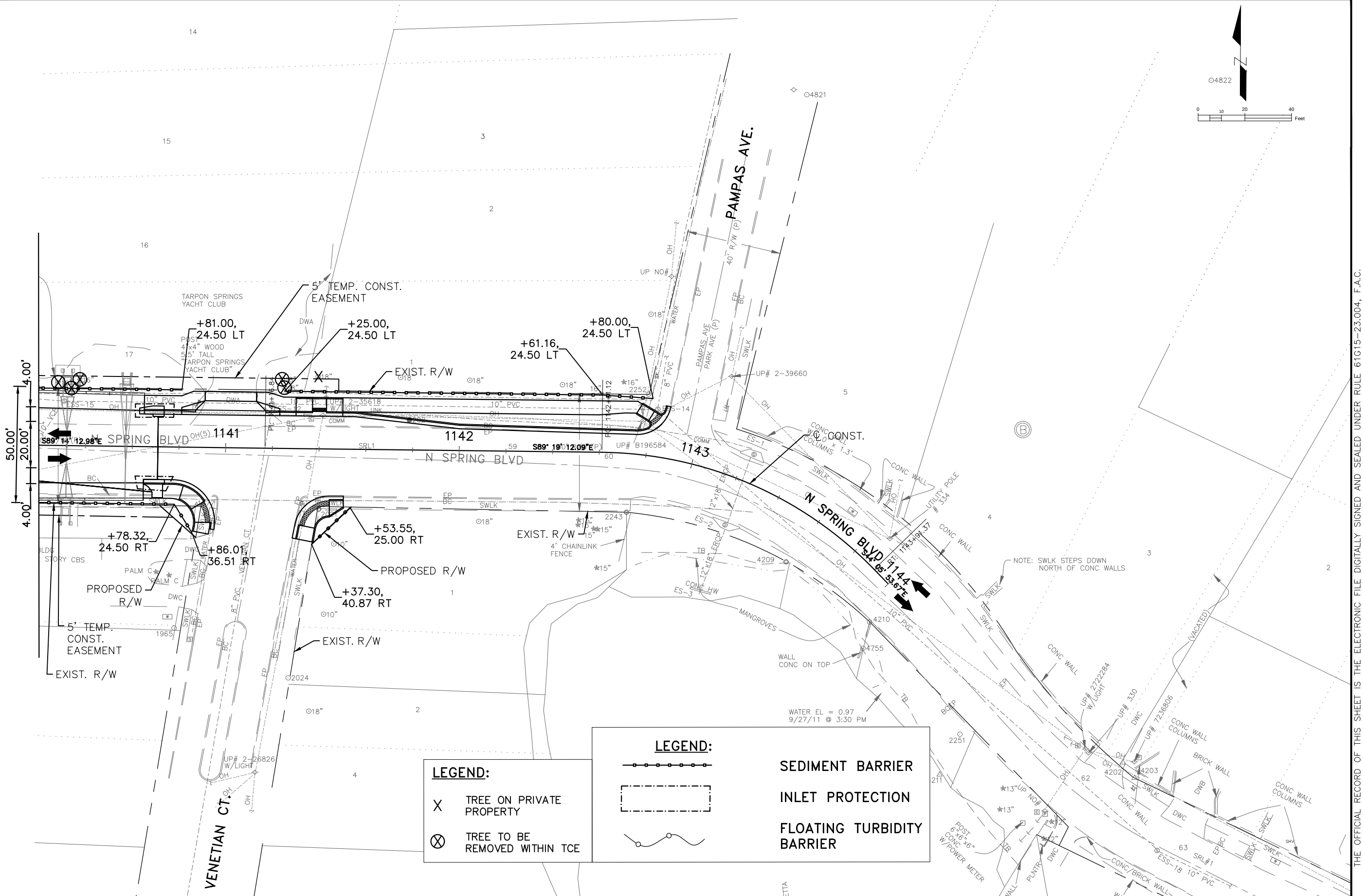
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			DRAWN JMG						PROJECT NO. 001037A
REV. NO. DATE DESCRIPTION			CHECKED JWD						SHEET: 38 OF 55

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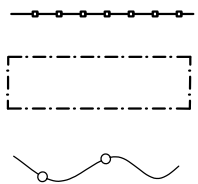
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LEGEND:

- X TREE ON PRIVATE PROPERTY
- ⊗ TREE TO BE REMOVED WITHIN TCE

LEGEND:



- SEDIMENT BARRIER
- INLET PROTECTION
- FLOATING TURBIDITY BARRIER

				DESIGNED	MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: EROSION AND SEDIEMENT CONTROL PLAN (3)	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY: ENGINEER OF RECORD JASON W. DUNN, P.E. FLA. LIC. NO 65039	DATE:	JUNE 2021
				DRAWN	JMG							PROJECT NO.	001037A
				CHECKED	JWD							SHEET:	40 OF 55
REV. NO.	DATE	DESCRIPTION	REV. BY										

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TEMPORARY TRAFFIC CONTROL GENERAL NOTES

- 1. THE PROJECT WILL REQUIRE CLOSURE OF THE RIVERSIDE DRIVE APPROACHES TO EXISTING BECKETT BRIDGE OVER WHITCOMB BAYOU. ROAD CLOSURE BARRICADES AND SIGNS WILL BE REQUIRED TO CLOSE RIVERSIDE DRIVE APPROACHES STARTING AT CHESAPEAKE DRIVE ON THE WEST END AND VENETIAN COURT ON THE EAST END OF THE PROJECT. LOCAL TRAFFIC AND PEDESTRIAN TRAFFIC SHALL BE MAINTAINED TO THE RESIDENTIAL PROPERTIES, MOBILE HOME PARK, AND YACHT CLUB.
- 2. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) UNITS SHALL BE PROVIDED ON MAJOR ROADS LEADING TO THE BECKETT BRIDGE CROSSING OF TARPON BAYOU TO INFORM THE PUBLIC OF THE UPCOMING BRIDGE CLOSURE. PCMS UNITS SHALL BE INSTALLED ALONG THE FOLLOWING MAJOR ROADS:

RIVERSIDE DRIVE EAST OF BRIDGE (WEST BOUND DIRECTION)
RIVERSIDE DRIVE WEST OF BRIDGE (EAST BOUND DIRECTION)
WEST TARPON AVENUE (WEST BOUND DIRECTION) AT ALT. 19

GULF ROAD (EAST BOUND DIRECTION) AT TARPON DRIVE
THE PCMS UNITS SHALL BE INSTALLED TWO WEEKS IN ADVANCE OF THE START OF CONSTRUCTION. WHEN CONSTRUCTION BEGINS, ADJUST PCMS MESSAGE DISPLAY AS SHOWN BELOW. PCMS TO REMAIN IN PLACE THROUGH THE FIRST MONTH OF CONSTRUCTION.

2 WEEKS PRIOR: DISPLAY 1 DISPLAY 2
 CONST AT DETOUR
 BECKETT BR BEGINS
 MONTH/DAY/YR

DURING DISPLAY 1 DISPLAY 2
CONSTRUCTION: CONST AT FOLLOW
 BECKETT BR DETOUR

- 3. TRAFFIC CONTROL DEVICES SHALL BE PLACED IN ACCORDANCE WITH INDEX NOS. 102–600 AND 102–613.
- 4. MAINTAIN PEDESTRIAN TRAFFIC BETWEEN CHESAPEAKE DRIVE AND THE MOBILE HOME PARK. PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES (LCD) SHALL FOLLOW THE GUIDANCE PROVIDED BY THE SIDEWALK DIVERSION DETAIL OF INDEX 102–660. TEMPORARY CURB RAMPS MEETING THE REQUIREMENTS OF INDEX 522–002 WILL BE REQUIRED ON CURB AND GUTTER SECTIONS.
- 5. COORDINATE DRIVEWAY/PROPERTY ACCESS WITH AFFECTED PROPERTY OWNER 2 WEEKS PRIOR TO ANY WORK ADJACENT TO PROPERTY IMPACTED BY RECONSTRUCTION OF THE ROADWAY OR DRIVEWAY.
- 6. PRIOR TO ANY PAUSE IN RECONSTRUCTION OF THE ROADWAY, COMPLETE THE WORK AREA OR RETURN THE WORK AREA TO SUCH A CONDITION THAT LOCAL TRAFFIC CAN TRAVEL SAFELY AND ACCESS THEIR PROPERTY. REFER TO FDOT STANDARD PLANS 102–600.
- 7. SEE STRUCTURE PLANS GENERAL NOTES FOR VESSEL TRAFFIC CLOSURE REQUIREMENTS.
- 8. EXISTING REGULATORY POSTED SPEEDS ARE AS FOLLOWS:

FACILITY NAME REGULATORY SPEED
RIVERSIDE DR 30 MPH
N SPRING BLVD 30 MPH

TEMPORARY TRAFFIC CONTROL PHASING NOTES

PHASE I

THIS PHASE WILL PROVIDE DEMOLITION OF EXISTING BRIDGE.

- 1. SET UP ADVANCE WARNING CONSTRUCTION SIGNS. SET UP DETOUR SIGNS AND KEEP COVERED UNTIL ROADWAY CLOSURE IS TO BEGIN.
- 2. IMPLEMENT DETOUR AND SET UP BRIDGE CLOSURE BARRICADES. SET UP BARRICADES AND SIGNS FOR PARTIAL CLOSURE OF ROADWAY WHERE LOCAL TRAFFIC MUST BE MAINTAINED TO RESIDENTIAL PROPERTIES AND YACHT CLUB.
- 3. PERFORM DEMOLITION OF EXISTING BRIDGE.

PHASE I STAGE A

THIS PHASE WILL CONSTRUCT THE SOUTH SIDE ROADWAY IMPROVEMENTS FROM CHESAPEAKE DRIVE TO STATION 1134+54.75 (MOBILE HOME PARK DRIVEWAY).

- 1. THE TRAFFIC CONTROL OBJECTIVE OF THIS PHASE IS TO MAINTAIN ONE LANE TWO WAY TRAFFIC IN A TEMPORARY LANE WITH PULLOVER AREAS TO ALLOW OPPOSING TRAFFIC TO PASS.
- 2. MAINTAIN PEDESTRIAN TRAFFIC ON EXISTING SIDEWALK ALONG NORTH SIDE ROW.
- 3. CONSTRUCT PROPOSED STORM SEWER TRUNK LINE WITH INLETS ALONG SOUTH SIDE OF ROADWAY FROM CHESAPEAKE DRIVE TO STORM DISCHARGE STRUCTURE AT BRIDGE. CONSTRUCT LATERAL PIPES STUBBED ACROSS ROADWAY TO CENTERLINE ROAD.
- 4. PREPARE SUBGRADE AND CONSTRUCT FIRST (3–INCH) LIFT OF TYPE B12.5 BASE INCLUDING CURB PAD.
- 5. CONSTRUCT TYPE F CURB AND GUTTER.
- 6. CONSTRUCT REMAINING TYPE B12.5 BASE (5–INCHES) AND CAP WITH SP 12.5 ASPHALT STRUCTURAL COURSE (1 1/2–INCHES). DELAY CONSTRUCTION OF THE FRICTION COURSE UNTIL LAST CONSTRUCTION PHASE.

PHASE I STAGE B

THIS PHASE WILL CONSTRUCT THE NORTH–SIDE ROADWAY IMPROVEMENTS FROM CHESAPEAKE DRIVE TO STATION 1134+54.75 (MOBILE HOME PARK DRIVEWAY).

- 1. THE TRAFFIC CONTROL OBJECTIVE OF THIS PHASE IS TO MAINTAIN ONE LANE TWO–WAY TRAFFIC IN A TEMPORARY LANE WITH PULLOVER AREAS TO ALLOW OPPOSING TRAFFIC TO PASS.
- 2. MAINTAIN PEDESTRIANS ON EXISTING SIDEWALK. INSTALL PEDESTRIAN LINEAR CHANNELLIZING DEVICES (LCD) BETWEEN EXISTING SIDEWALK AND CONSTRUCTION TO DELINEATE THE PEDESTRIAN WALK AREA.
- 3. COMPLETE CONSTRUCTION OF STORM PIPE LATERALS AND INLETS ALONG THE NORTH SIDE.
- 4. PREPARE SUBGRADE AND CONSTRUCT FIRST (3–INCH) LIFT OF TYPE B12.5 BASE INCLUDING CURB PAD.
- 5. CONSTRUCT TYPE F CURB AND GUTTER.
- 6. CONSTRUCT REMAINING TYPE B12.5 BASE (5–INCHES) AND CAP WITH SP 12.5 ASPHALT STRUCTURAL COURSE (1 1/2–INCHES). DELAY CONSTRUCTION OF THE FRICTION COURSE UNTIL LAST CONSTRUCTION PHASE.

PHASE II C SIDEWALK AND DRIVEWAYS

THIS PHASE WILL CONSTRUCT THE SIDEWALK AND DRIVEWAYS ALONG THE NORTH SIDE FROM CHESAPEAKE DRIVE TO STATION 1134+54.75 (MOBILE HOME PARK DRIVEWAY).

- 1. THE TRAFFIC CONTROL OBJECTIVE OF THIS PHASE IS TO MAINTAIN ONE LANE TWO–WAY TRAFFIC IN TEMPORARY LANE WITH PULLOVER AREAS FOR VEHICLES TO PULL OUT OF TEMPORARY LANE TO ALLOW OPPOSING TRAFFIC TO PASS.
- 2. MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF NEW ROADWAY BEHIND A PEDESTRIAN LCD.
- 3. COMPLETE CONSTRUCTION OF NEW DRIVEWAYS.
- 4. COMPLETE CONSTRUCTION OF NEW SIDEWALK.
- 5. INSTALL TEMPORARY PAVEMENT MARKINGS AND OPEN TO TWO–LANE TWO–WAY TRAFFIC FOR LOCAL TRAFFIC ONLY.

PHASE II

THIS PHASE WILL CONSTRUCT THE GRAVITY WALLS AND ROADWAY IMPROVEMENTS AT THE EAST AND WEST END OF THE BRIDGE. A ROADWAY CLOSURE WILL BE REQUIRE IN THE AREA OF THIS WORK.

- 1. CONSTRUCT GRAVITY WALLS ALONG NORTH AND SOUTH SIDES OF THE ROADWAY AT BOTH APPROACHES. THE STEEL SHEET PILE WALLS MUST BE COMPLETED WHERE THE GRAVITY WALL CAN BE CAST AROUND THE SHEET PILES.
- 2. COMPLETE CONSTRUCTION OF WALL COPING. APPROACH SLABS MUST BE COMPLETED PRIOR TO START OF THIS WORK.

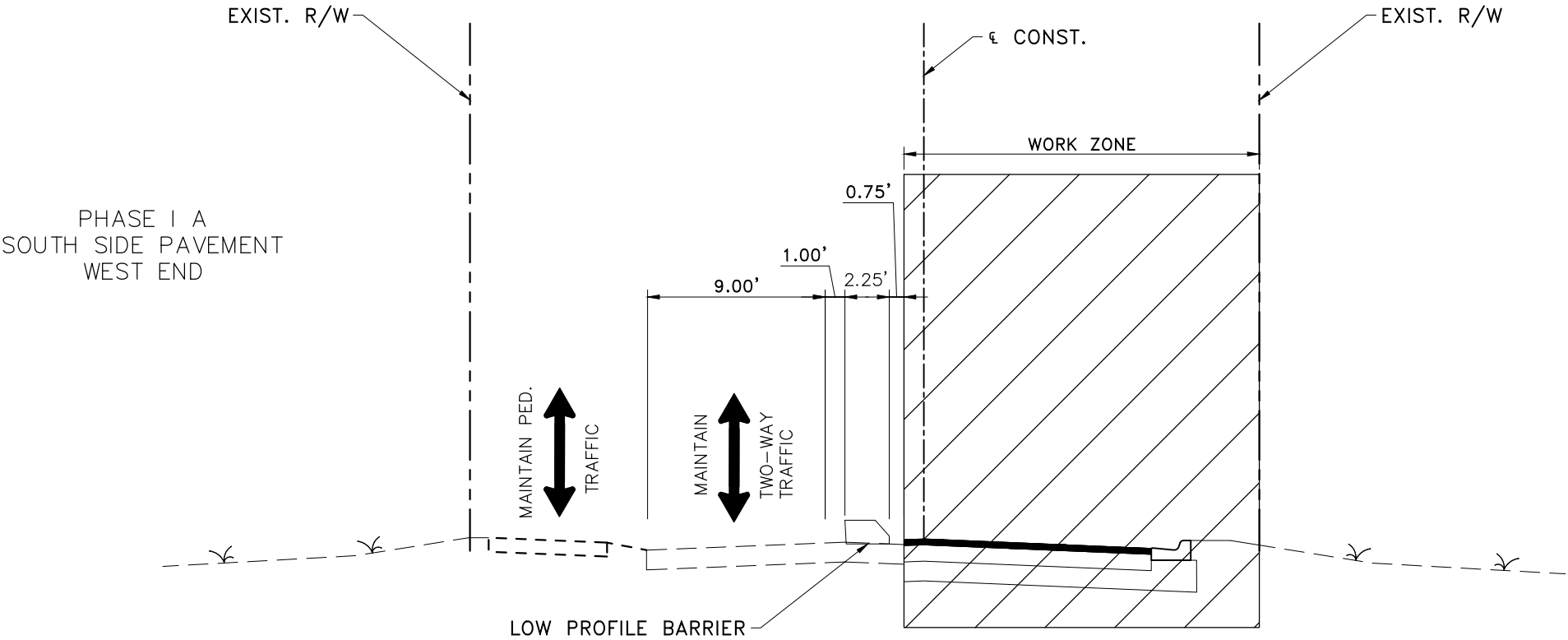
PHASE III

THIS PHASE WILL CONSTRUCT THE REMAINING CURB AND GUTTER, ROADWAY PAVEMENT, SIDEWALK AND DRIVEWAYS AT THE EAST AND WEST ENDS OF THE NEW BRIDGE. A ROADWAY CLOSURE WILL CONTINUE TO REMAIN IN THE AREA OF THIS WORK.

- 1. PREPARE SUBGRADE AND CONSTRUCT FIRST (3–INCH) LIFT OF TYPE B12.5 BASE INCLUDING CURB PAD.
- 2. CONSTRUCT TYPE F CURB AND GUTTER.
- 3. CONSTRUCT REMAINING TYPE B12.5 BASE (5–INCHES) AND CAP WITH SP 12.5 ASPHALT STRUCTURAL COURSE (1 1/2–INCHES). DELAY CONSTRUCTION OF THE FRICTION COURSE UNTIL LAST CONSTRUCTION PHASE.
- 4. CONSTRUCT THE REMAINING SIDEWALKS AND DRIVEWAYS.
- 5. FOLLOWING COMPLETION OF THE BRIDGE COMPLETE CONSTRUCTION OF FRICTION COURSE, PAVEMENT MARKINGS, AND INSTALLATION OF SIGNS
- 6. OPEN ROADWAY AND BRIDGE TO TRAFFIC.

				DESIGNED	MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: TRAFFIC CONTROL PLAN GENERAL & PHASE NOTES	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY: ENGINEER OF RECORD JAMES WEBB JONES, III, P.E FLA. LIC. NO 56950	DATE:	JUNE 2021
				DRAWN	JMG							PROJECT NO.	001037A
				CHECKED	JWD							SHEET:	41 OF 55
REV. NO.	DATE	DESCRIPTION	REV. BY										

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DESIGNED	MPJ
DRAWN	JMG
CHECKED	JWD



PROJECT:	BECKETT BRIDGE REPLACEMENT
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DESCRIPTION:	TRAFFIC CONTROL PLAN TYPICAL SECTION (1)
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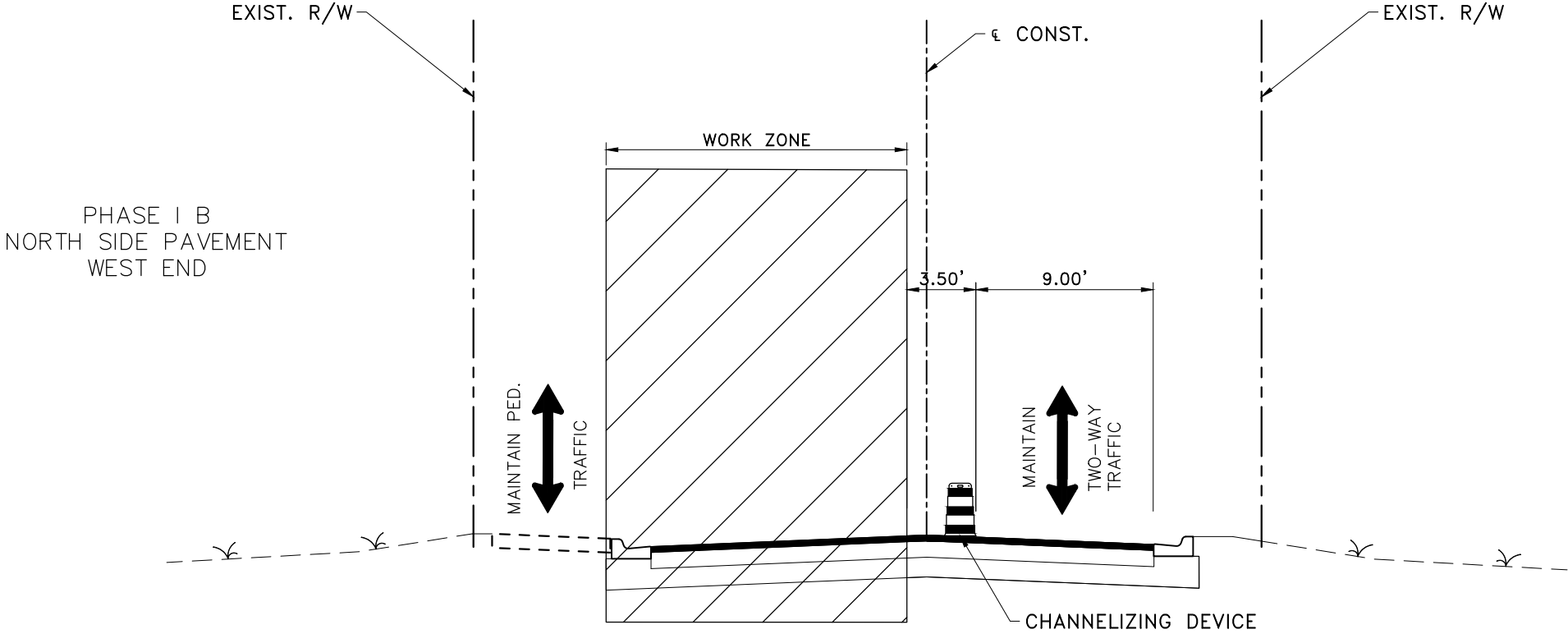
HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741	
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APPROVED BY:	ENGINEER OF RECORD JAMES WEBB JONES, III, P.E. FLA. LIC. NO 56950
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DATE:	JUNE 2021
PROJECT NO.	001037A
SHEET:	42 OF 55

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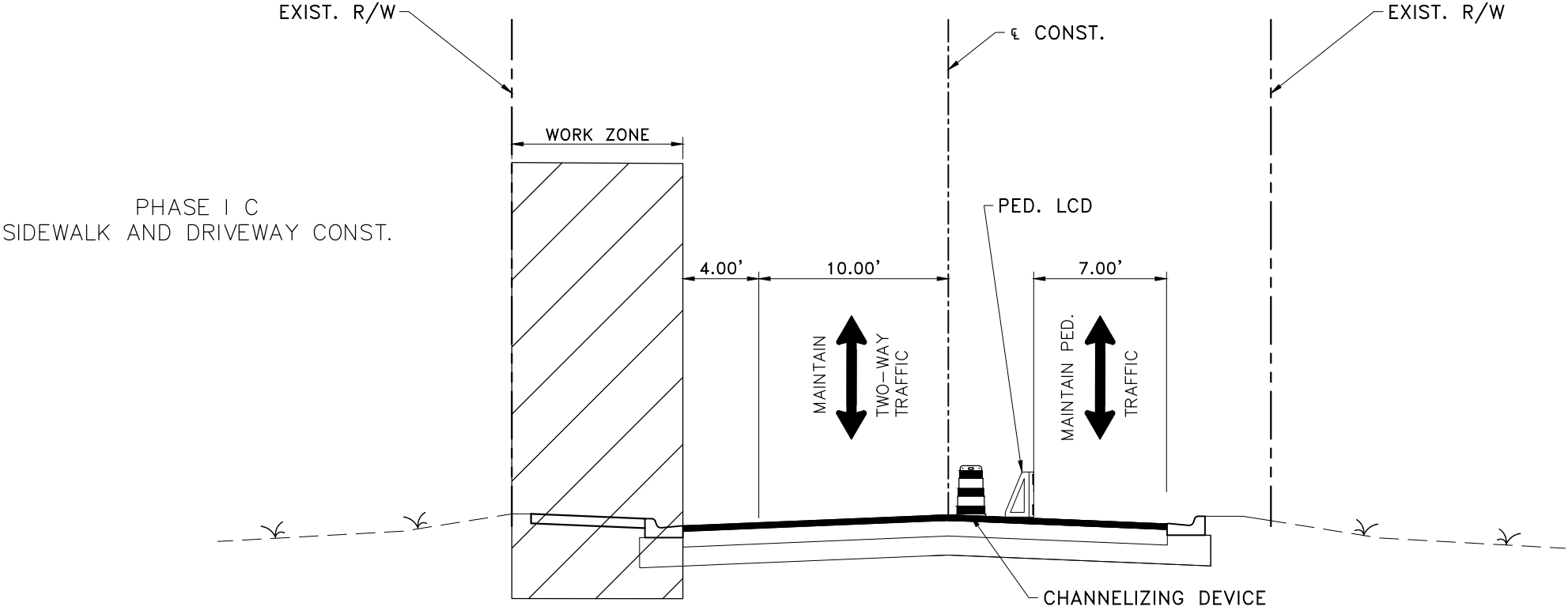
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				CHECKED	JWD							SHEET:	43 OF 55
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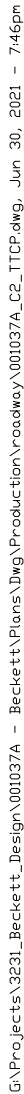
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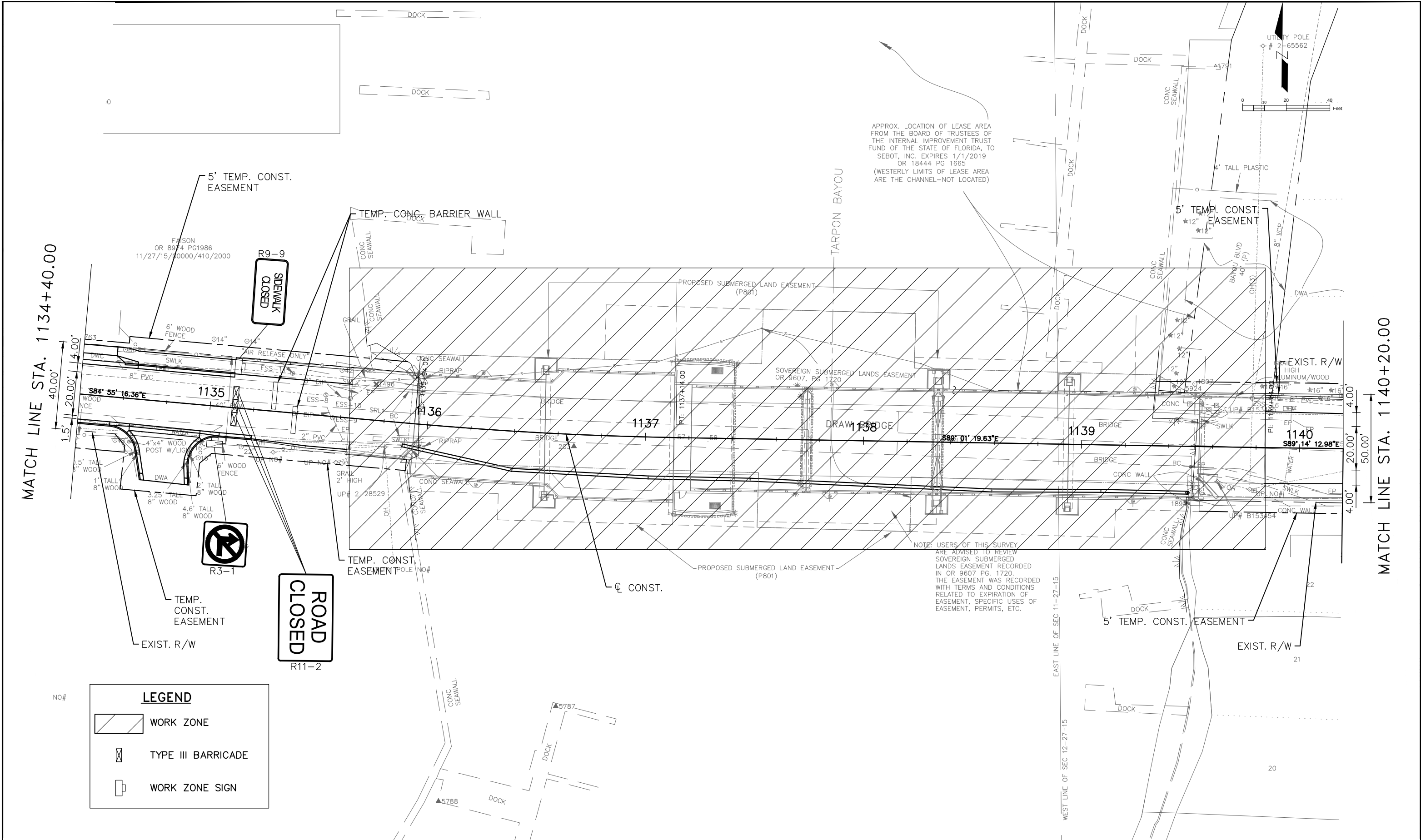
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				DRAWN	JMG							PROJECT NO.	001037A
				CHECKED	JWD							SHEET:	44 OF 55
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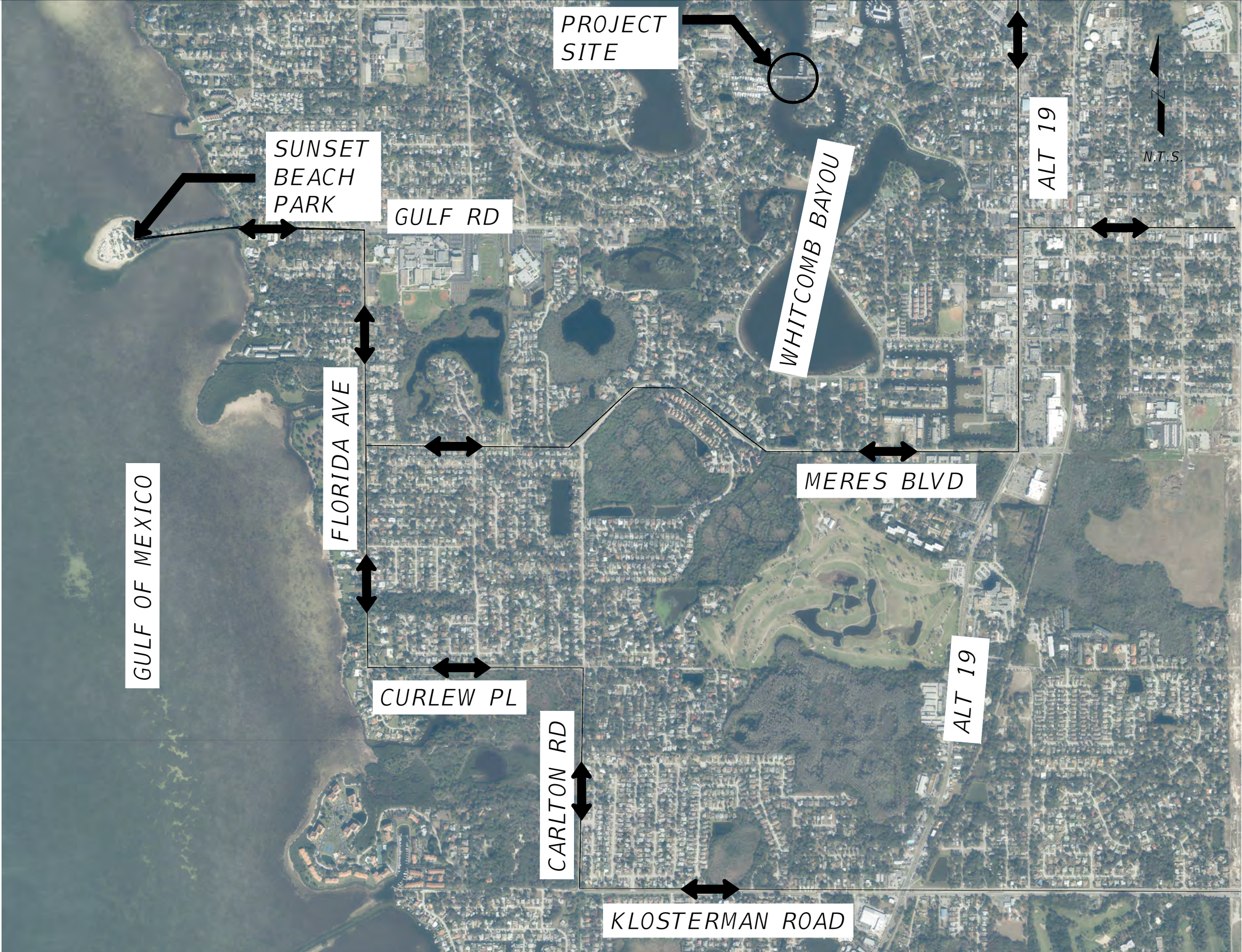
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				CHECKED	JWD							SHEET: 46 OF 55
REV. NO.	DATE	DESCRIPTION	REV. BY									

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				DRAWN	JMG									PROJECT NO.	001037A
REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED	JWD									SHEET:	47 OF 55

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CHECKED	JWD



PROJECT:	BECKETT BRIDGE REPLACEMENT
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DESCRIPTION:	TRAFFIC CONTROL PLAN GENERAL DETOUR
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HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741



APPROVED BY:	ENGINEER OF RECORD JAMES WEBB JONES, III, P.E. FLA. LIC. NO 56950
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DATE:	JUNE 2021
PROJECT NO.	001037A
SHEET:	48 OF 55

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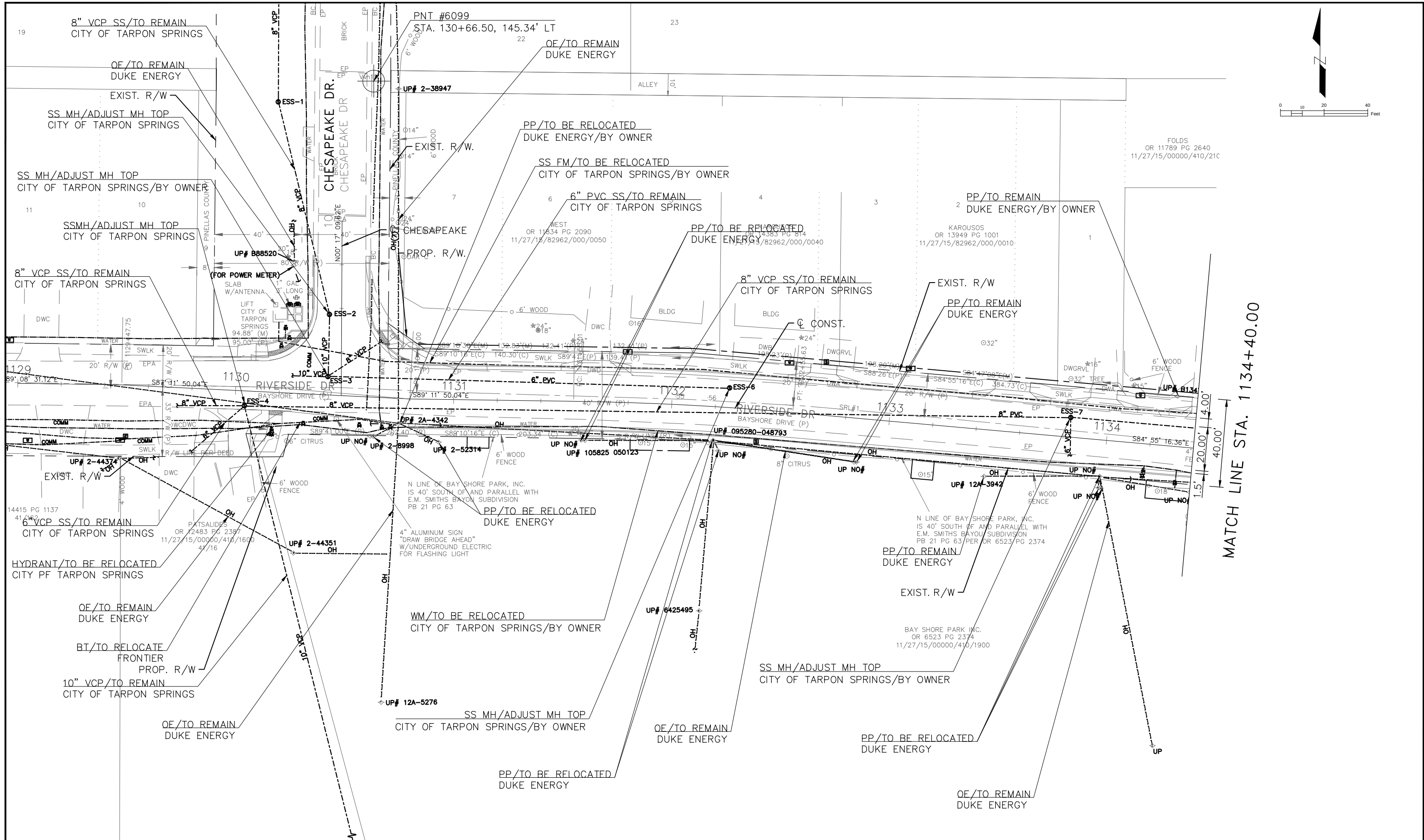
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- WORK_ZONE_SIGN
- TYPE_III_BARRICADE
- LANE_IDENTIFICATION - DIRECTION OF TRAFFIC

				DESIGNED	MPJ		PROJECT:	DESCRIPTION:	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY:	ENGINEER OF RECORD JAMES WEBB JONES, III, P.E FLA. LIC. NO 56950	DATE:	JUNE 2021
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				CHECKED	JWD								SHEET:	49 OF 55
REV. NO.	DATE	DESCRIPTION	REV. BY											

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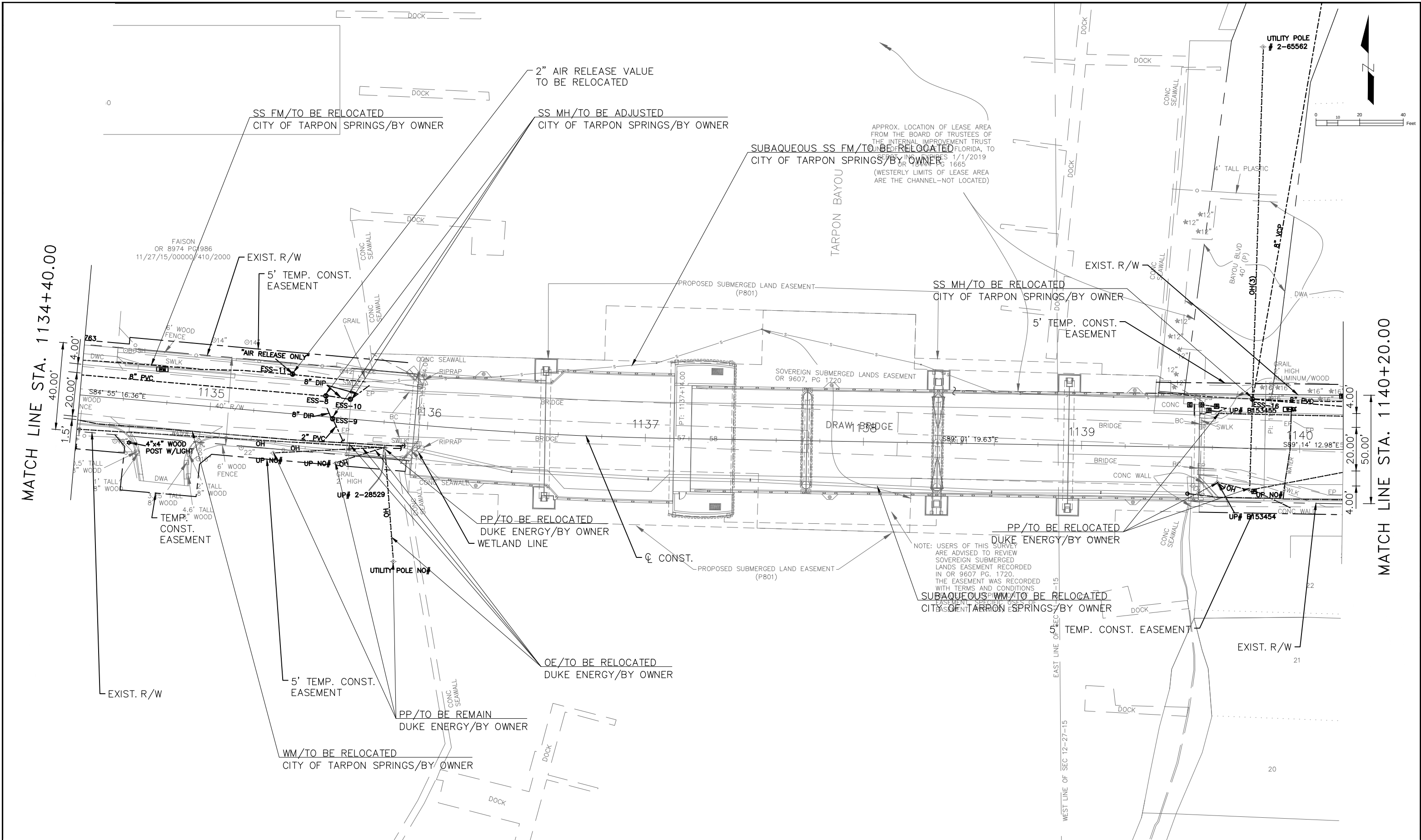
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				DESIGNED	MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: UTILITY ADJUSTMENT PLAN (1)	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY: ENGINEER OF RECORD JASON W. DUNN, P.E. FLA. LIC. NO 65039	DATE: JUNE 2021
				DRAWN	JMG							PROJECT NO. 001037A
				CHECKED	JWD							SHEET: 50 OF 55
REV. NO.	DATE	DESCRIPTION	REV. BY									

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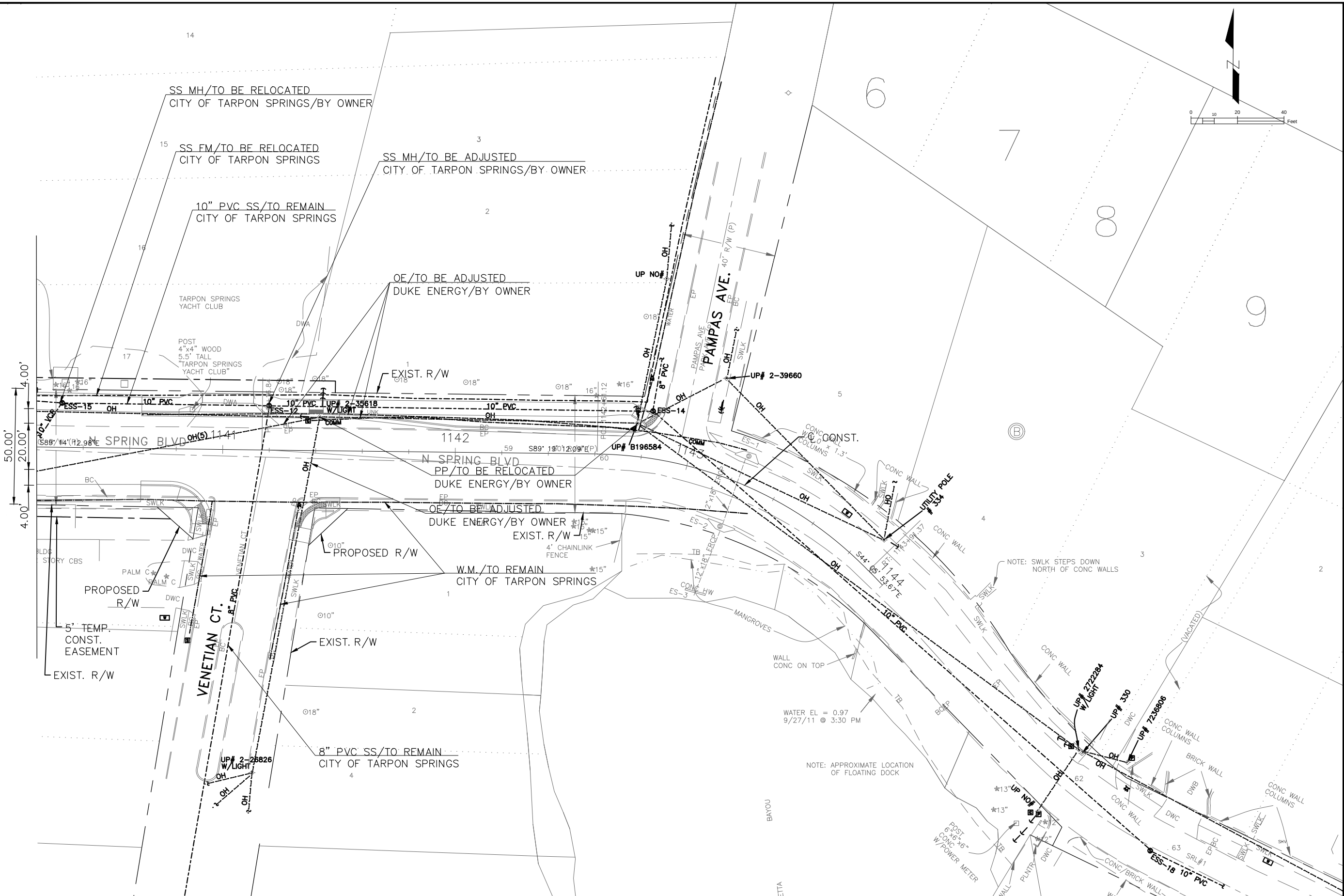


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				DRAWN	JMG							PROJECT NO. 001037A
REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED	JWD							SHEET: 51 OF 55

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

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MATCH LINE STA. 1140+20.00



REV. NO.	DATE	DESCRIPTION	REV. BY

DESIGNED	MPJ
DRAWN	JMG
CHECKED	JWD



PROJECT: BECKETT BRIDGE REPLACEMENT

DESCRIPTION: UTILITY ADJUSTMENT PLAN (3)

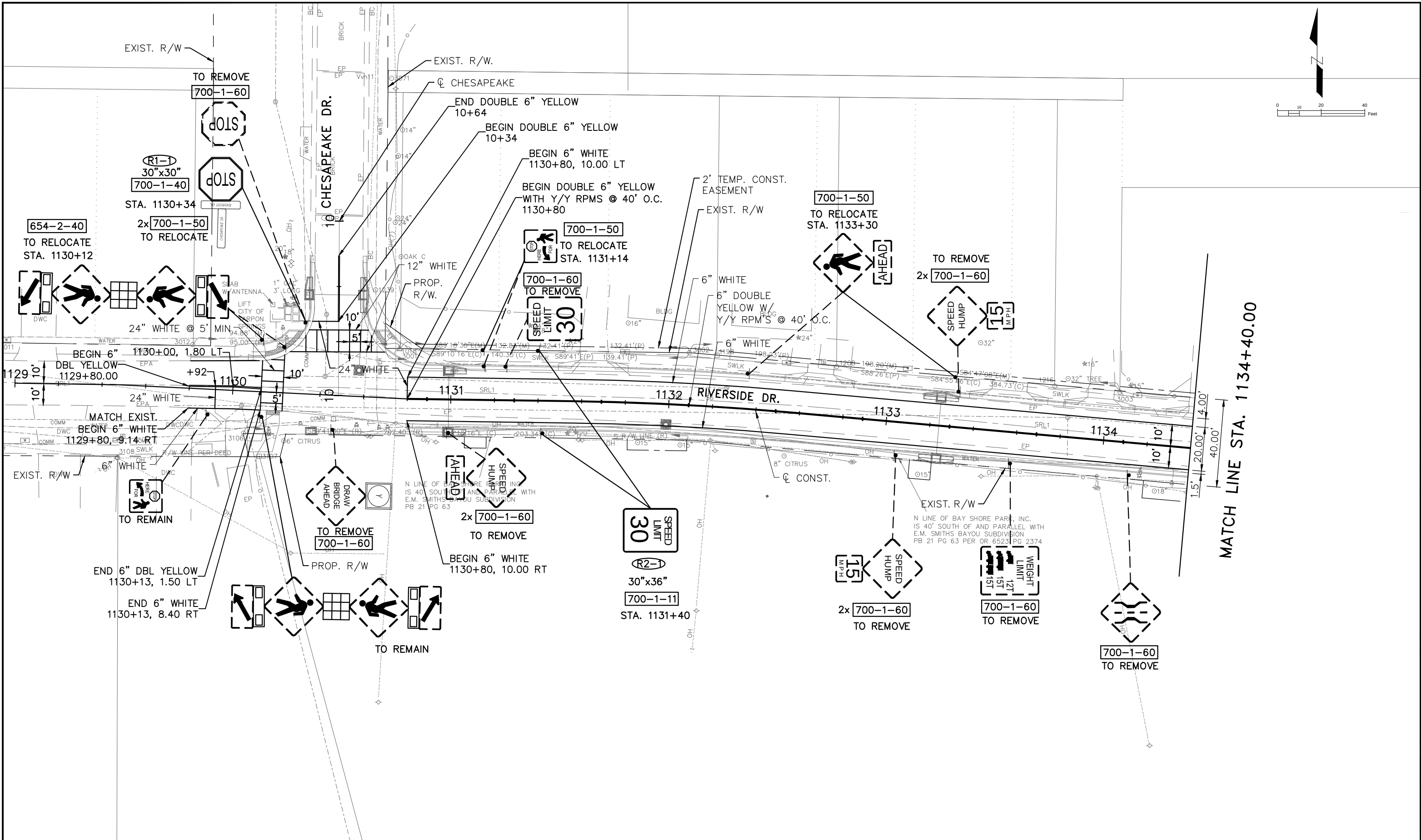
HARDESTY & HANOVER, LLC.
5110 EISENHOWER BLVD.
SUITE 310
TAMPA, FL 33634
CERTIFICATION OF AUTHORIZATION # 29741

APPROVED BY: 
ENGINEER OF RECORD
JAMES WEBB JONES, III, P.E.
FLA. LIC. NO 56950

DATE: JUNE 2021
PROJECT NO. 001037A
SHEET: 52 OF 55

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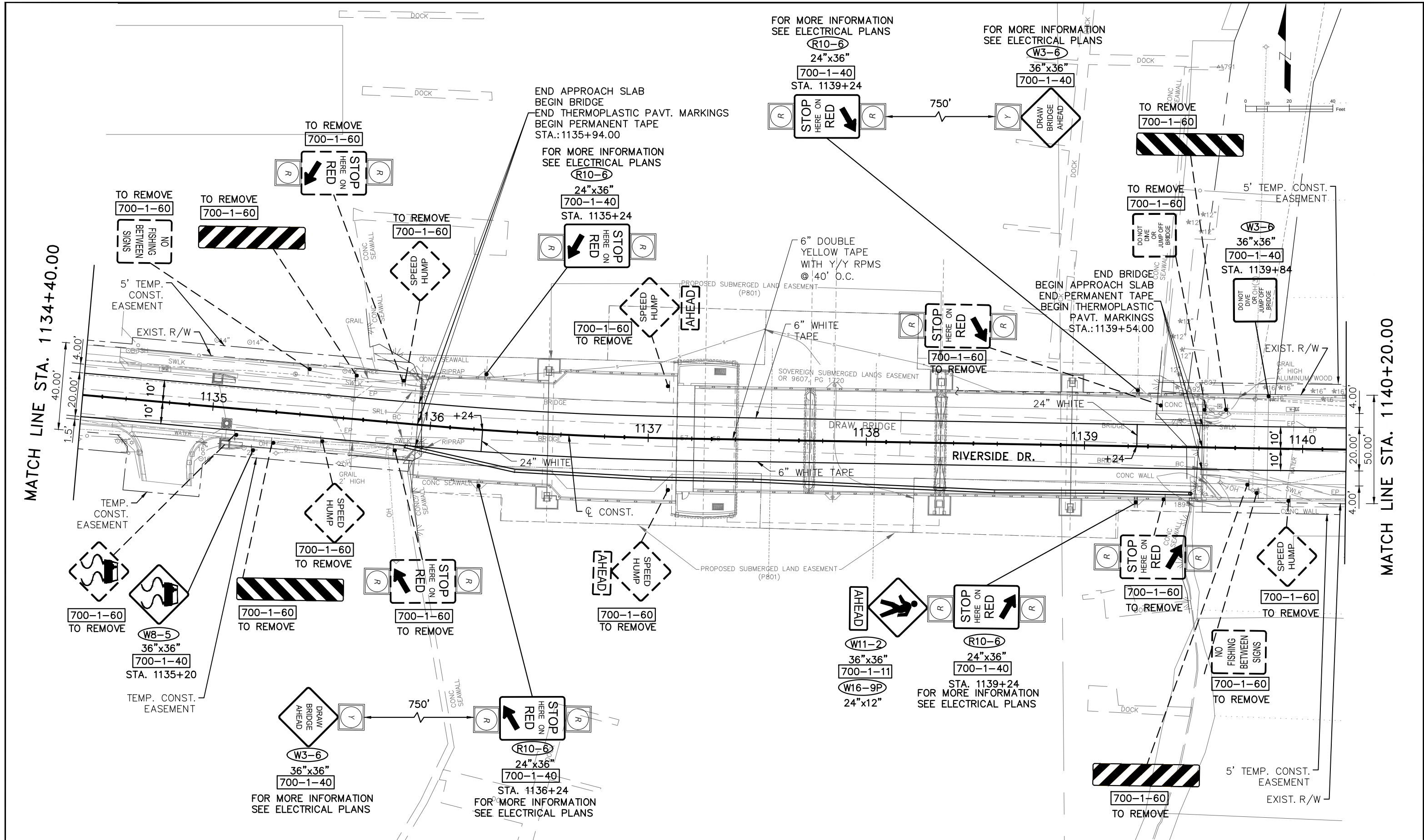
				DESIGNED	MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: SIGNING & PAVEMENT MARKING PLAN (1)	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY: ENGINEER OF RECORD JAMES WEBB JONES, III, P.E FLA. LIC. NO 56950	DATE: JUNE 2021
				DRAWN	JMG							PROJECT NO. 001037A
REV. NO.	DATE	DESCRIPTION	REV. BY	CHECKED	JWD							SHEET: 53 OF 55

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MATCH LINE STA. 1134+40.00

MATCH LINE STA. 1140+20.00

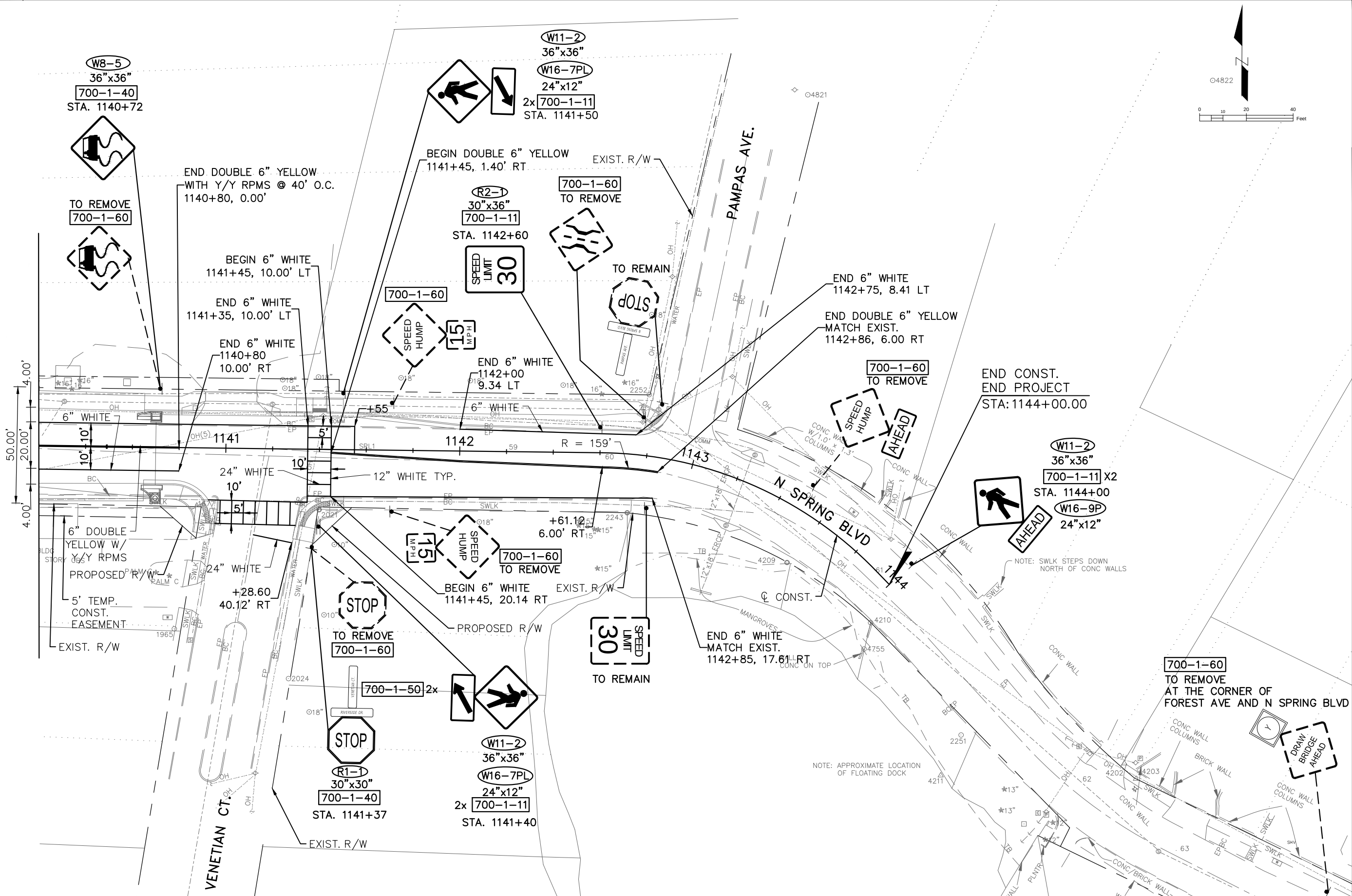


			DESIGNED	MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: SIGNING & PAVEMENT MARKING PLAN (2)	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY: ENGINEER OF RECORD JAMES WEBB JONES, III, P.E. FLA. LIC. NO 56950	DATE: JUNE 2021
			DRAWN	JMG							
			CHECKED	JWD							
REV. NO. DATE DESCRIPTION			REV. BY								
											PROJECT NO. 001037A
											SHEET: 54 OF 55

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MATCH LINE STA. 1140+20.00



			DESIGNED	MPJ		PROJECT: BECKETT BRIDGE REPLACEMENT	DESCRIPTION: SIGNING & PAVEMENT MARKING PLAN (3)	HARDESTY & HANOVER, LLC. 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 CERTIFICATION OF AUTHORIZATION # 29741		APPROVED BY: ENGINEER OF RECORD JAMES WEBB JONES, III, P.E. FLA. LIC. NO 56950	DATE:	JUNE 2021
			DRAWN	JMG							PROJECT NO.	001037A
			CHECKED	JWD							SHEET:	55 OF 55
REV. NO.	DATE	DESCRIPTION	REV. BY									

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