Exhibit 11

# MANATEE COUNTY PUBLIC WORKS DEPARTMENT

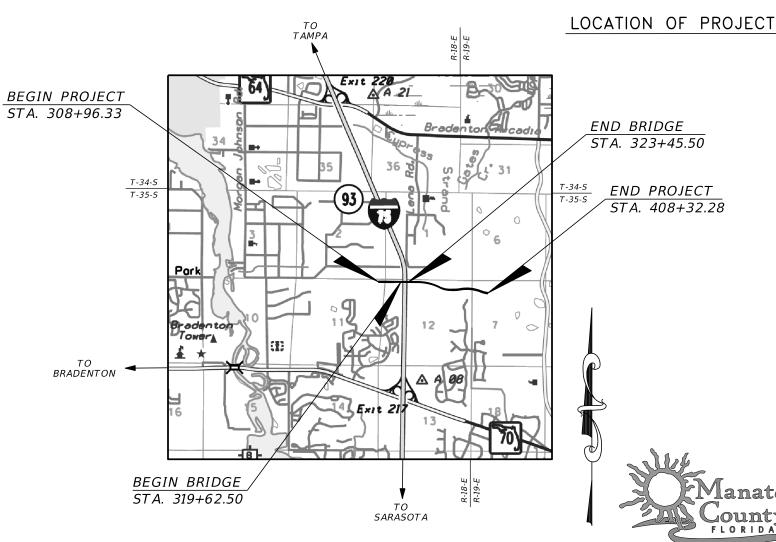
CONTRACT PLANS

MANATEE COUNTY **PROJECT NUMBER 6045662** 44TH AVENUE EAST

### PHASE 2

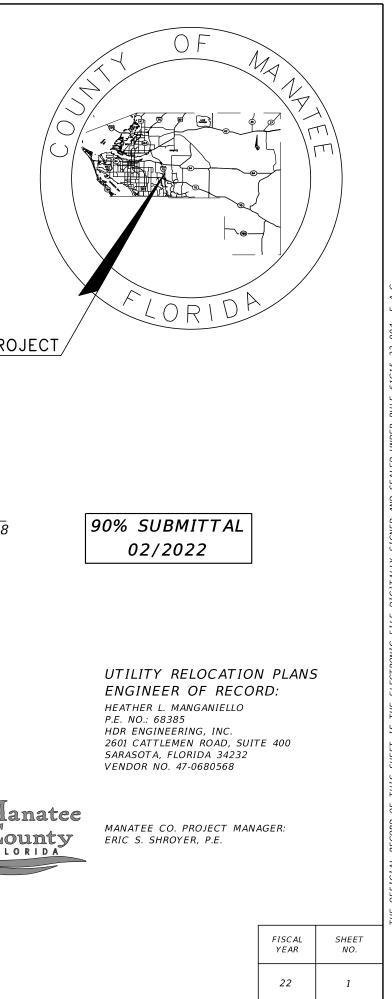
## FROM 44TH AVENUE PLAZA EAST TO I-75

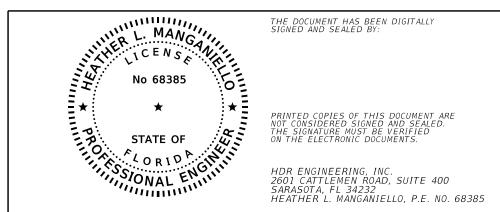
# UTILITY RELOCATION PLANS



#### INDEX OF UTILITY RELOCATION PLANS

SHEET NO.	SHEET DESCRIPTION
U-1	KEY SHEET
U-2	SIGNATURE SHEET
U-3	TABULATION OF QUANTITIES
U-4	GENERAL NOTES
U-5 - U-19	UTILITY RELOCATION PLANS
U-20 - U-27	UTILITY PROFILES
U-28 - U-36	UTILITY DETAILS





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

#### UTILITY RELOCATION PLANS

SHEET NO.	SHEET DESCRIPTION
U-1 U-2 U-3 U-4 U-5 - U-19 U-20- U-27	KEY SHEET SIGNATURE SHEET TABULATION OF QUANTITIES GENERAL NOTES UTILITY RELOCATION PLANS UTILITY PROFILES
U-28 - U-36	UTILITY DETAILS

No. REVISIONS DATE BY HEH	PROJECT NO. 6045662 3:34:44 PM 2/17/2022
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SIGNATURE SHEET	SHEET NO.
	U-2

	(WASTEWATER FORCE MA						-					-	
	ITEM	UNIT	U-9	U-10	U-11	U-12	U-13	U-14	U-15	U-16	U-17	U-18	U-19
MC-01-01 MOBILIZATION, WASTEWATER		LS											
MC-01-02 12" DUCTILE IRON PIPE (RESTRAINED JO	INT), WASTEWATER	LF									77		
MC-01-03 36" DUCTILE IRON PIPE (RESTRAINED JO	INT), WASTEWATER	LF									84		
MC-01-04 6" POLYVINYL CHLORIDE PIPE (RESTRAIN	<u>ED JOINT), WASTEWATER</u>	LF									16		
<u>MC-01-05 12" POLYVINYL CHLORIDE PIPE (RESTRAI</u>		LF				116	719	685	729	714	599	679	509
<u>MC-01-06 20" POLYVINYL CHLORIDE PIPE (RESTRAI</u>		LF	246										20
<u>MC-01-07 36" POLYVINYL CHLORIDE PIPE (RESTRAI</u>	<u>NED JOINT), WASTEWATER</u>	LF				<u>113</u>	719	683	727	715	588	680	514
MC-01-08 REMOVE 20" DI WASTEWATER FORCE MAI		LF	240										
<u>MC-01-09 6" PLUG &amp; FILL, WASTEWATER FORCE MA</u>		LF								83	382		
<u>MC-01-10 12" PLUG &amp; FILL, WASTEWATER FORCE M</u>		LF				290	750		379	722	670	640	508
MC-01-11 20" PLUG & FILL, WASTEWATER FORCE M,		LF											110
<u>MC-01-12 36" PLUG &amp; FILL, WASTEWATER FORCE M</u>	AIN	LF				<u>29</u> 0	750		379	722	670	640	510
MC-01-13 36" STEEL CASING, WASTEWATER		LF	206										
<u>MC-01-14 12" DUCTILE IRON ELBOW (RESTRAINED .</u>		EA				4	2		4		2	2	8
MC-01-15 20" DUCTILE IRON ELBOW (RESTRAINED .	OINT), WASTEWATER	EA	16										1
MC-01-16 36" DUCTILE IRON ELBOW (RESTRAINED .	OINT), WASTEWATER	EA				4	2		2	4	2	2	4
MC-01-17 12" DUCTILE IRON UNION (RESTRAINED J	DINT), WASTEWATER	EA				1							1
MC-01-18 20" DUCTILE IRON UNION (RESTRAINED J	OINT). WASTEWATER	EA	4										
MC-01-19 36" DUCTILE IRON UNION (RESTRAINED J		EA				1							1
MC-01-20 6" DUCTILE IRON PLUG / CAP (RESTRAINE		EA								1	1		
MC-01-21 12" DUCTILE IRON PLUG / CAP (RESTRAIN	IFD JOINT), WASTEWATER	ĒĂ				1	1			1	1	1	1
MC-01-22 20" DUCTILE IRON PLUG / CAP (RESTRAIN	IED JOINT), WASTEWATER	EA				-				-	-		Ī
MC-01-23 36" DUCTILE IRON PLUG / CAP (RESTRAIN	IED JOINT), WASTEWATER	EA				1	1			1	1	1	1
MC-01-24 36" X 6" DUCTILE IRON TEE (RESTRAINED		ĒÂ				_				_	1		_
MC-01-25 36" X 20" DUCTILE IRON TEE (RESTRAINE	D JOINT). WASTEWATER	EA									-		1
MC-01-26 20" PVC/HDPE ADAPTER UNION		EA											1
MC-01-27 6" GATE VALVE (RESTRAINED JOINT), WAS	STEWATER	LF									1		
MC-01-28 12" GATE VALVE (RESTRAINED JOINT), WA		ĒA				1			1		-		1
MC-01-29 20" GATE VALVE (RESTRAINED JOINT), WA	STEWATER	ĒA							_				1
MC-01-30 36" GATE VALVE (RESTRAINED JOINT), WA		ĒĂ				1			1				1
MC-01-31 12" LINESTOP. WASTEWATER		ĒĂ				2							_
MC-01-32 20" LINESTOP, WASTEWATER		ĒA	4										
MC-01-33 36" LINESTOP. WASTEWATER		EA				2	2						
MC-01-34 EXISTING ARV W/ ENCLOSURE, ADJUST T	O GRADE WASTEWATER	EA				-			1				
MC-01-35 ARV WITH ENCLOSURE, WASTEWATER	STADE, WASTEWATEN	EA	2				2			2		3	
MC-01-36 RECORD DRAWINGS, WASTEWATER			۷				<u> </u>						<u> </u>
MC-01-50 MCCORD DRAWINGS, WASTEWATER		LJ		1	ļ	ļ	ļ	ļ				ļ	I
UTILITY PLANS	(RECLAIMED WATER MAIN	/)											
ITEM NO.	ITEM	UNIT	U-9	U-10	U-11	U-12	U-13	U-14	U-15	U-16	U-17	U-18	U-19
MC-02-01 MOBILIZATION, RECLAIMED WATER		LS											
MC-02-02 30" DUCTILE IRON PIPE (RESTRAINED JO	INT), RECLAIMED WATER	LF				156	148	716	675	680	803	685	685

IIEM NO.		UNII	0-9	0-10	U-11	0-12	U-13	U-14	0-15	U-16	U-1/	U-18	U-19
MC-02-01	MOBILIZATION, RECLAIMED WATER	LS											
	30" DUCTILE IRON PIPE (RESTRAINED JOINT), RECLAIMED WATER	LF				156	148	716	675	680	803	685	685
MC-02-03	12" POLYVINYL CHLORIDE PIPE (RESTRAINED JOINT), RECLAIMED WATER	LF									11		
MC-02-04	REMOVE 30" DI RECLAIMED WATER MAIN	LF				145							
MC-02-05	12" PLUG & FILL, RECLAIMED WATER MAIN	LF								115	530		
MC-02-06	30" PLUG & FILL, RECLAIMED WATER MAIN	LF					148		271	720	667	645	524
MC-02-07	12" DUCTILE IRON ELBOW (RESTRAINED JOINT), RECLAIMED WATER	ΕA									1		
MC-02-08	30" DUCTILE IRON ELBOW (RESTRAINED JOINT), RECLAIMED WATER	ΕA				8	1		3		6		6
MC-02-09	12" DUCTILE IRON UNION (RESTRAINED JOINT), RECLAIMED WATER	ΕA									1		
MC-02-10	30" DUCTILE IRON UNION (RESTRAINED JOINT), RECLAIMED WATER	EA				2	1						1
MC-02-11	12" DUCTILE IRON PLUG / CAP (RESTRAINED JOINT), RECLAIMED WATER	ΕA								1	1		
MC-02-12	30" DUCTILE IRON PLUG / CAP (RESTRAINED JOINT), RECLAIMED WATER	EA								1	1	1	1
MC-02-13	30" X 12" DUCTILE IRON TEE (RESTRAINED JOINT), RECLAIMED WATER	ΕA									1		
MC-02-14	1/12" GATE VALVE (RESTRAINED JOINT), RECLAIMED WATER	EA									1		
MC-02-15	30" GATE VALVE (RESTRAINED JOINT), RECLAIMED WATER	ΕA								1	1		
	30" LINESTOP, RECLAIMED WATER	ΕA				2	1						
MC-02-17	ARV WITH ENCLOSURE, RECLAIMED WATER	EA				1							1
	EXISTING VALVE, ADJUST/MODIFY, RECLAIMED WATER	EA					1		1		3		
MC-02-19	RECLAIMED WATER SERVICE REPLACEMENT/CONNECTION	ΕA							1		3		
MC-02-20	RECORD DRAWINGS, RECLAIMED WATER	LS											

#### UTILITY PLANS (POTABLE WATER MAIN)

ITEM NO.	ITEM	UNIT	U-9	U-10	U-11	U-12	U-13	U-14	U-15	U-16	U-17	U-18	U
MC-03-01 MOBILIZATION,		LS											
MC-03-02 12" DUCTILE I	RON PIPE (RESTRAINED JOINT), POTABLE WATER	LF											
MC-03-03 EXISTING VAL	VE, ADJUST/MODIFY, POTABLE WATER	EA									3		
MC-03-04 EXISTING SER	RVICE, REMOVE/ABANDON, POTABLE WATER	EA	1										
	RON ELBOW (RESTRAINED JOINT), POTABLE WATER	EA									4		
MC-03-06 12" DUCTILE I	RON UNION (RESTRAINED JOINT), POTABLE WATER	EA									2		
<u>MC-03-07 12" DUCTILE I</u>	RON PLUG / CAP (RESTRAINED JOINT), POTABLE WATER	EA									2		
	ILL, RECLAIMED WATER MAIN	LF									130		
MC-03-09 SAMPLE POINT	, POTABLE WATER	EA									2		
MC-03-10 RECORD DRAW		LS											
		•				•		•	•				
	AS NOTED HDR Eng	neering, Inc.		DATE							DE	SIGN ENGIN	EER
		lemen Road		02/2022		K.						HEATHER	

				DESIGNED BY HLM	2601 Cattlemen Road Suite 400 Sarasota, FL 34232-6233	02/2022		MANATEE COUNTY	HEATHER MANGANIELLO
2	90% Submittal	02/2022	177	DRAWN BY	0ara30ta, 1 E 04202-0200	PROJECT NO.	County	PUBLIC WORKS	FL. LICENSE NO.
Z No.	REVISIONS	02/2022 DATE	BY	CHECKED BY		6045662			68385
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	TABULA TION		SHEET NO.
		1 <u>30</u> 2 1	
		4 2 2	
		3	
-19	PRESENT ON SURVEY	QUANTITY 1 138	
	OUTSIDE OF PLANS/NOT	TOTAL	
		5 4 1	
1		2 3 2	
-		1 1 2	
1	5	4 2 9	
6		1 24 1	
24	1145	645 4,120	
85		4,548 11 145	
-19	OUTSIDE OF PLANS/NOT PRESENT ON SURVEY	TOTAL QUANTITY 1	
		1	
		2 1 9	
1		3 2 4	
- 1 1		$\frac{1}{3}$	
1 1 1		$ \begin{array}{c} 1\\ 1\\ 1\\ 1\\ 1 \end{array} $	
1 1 1	<u>5</u> 5	$ \begin{array}{c} 1\\ 1\\ 6\\ 6\\ 6\end{array} $	
1		4 2 2	
1 4 1		17 20 2	
10 8	1039	5,000 206 22	
08 10	1041	465 5,000 110	
20 14		266 4,739 240	
09		84 1 4,750	
-19		1 77	
10	OUTSIDE OF PLANS/NOT PRESENT ON SURVEY	TOTAL QUANTITY	

## **GENERAL NOTES**

- 1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED VV, VH AND VVH) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED. SEE ROADWAY PLANS FOR VVH TABLE.
- 2. RECORD DRAWING INFORMATION SHALL BE SUPPLIED IN ACCORDANCE WITH THE MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS INCLUDING, BUT NOT LIMITED TO FINISHED GRADE ELEVATIONS, TIES TO MAINS, VALVES, FITTINGS, ELEVATIONS OF PIPES, AND LOCATIONS OF SAMPLE POINTS FOR COMPLIANCE TESTING, LOCATIONS, DIMENSIONS, AND ELEVATIONS OF ALL OTHER CONSTRUCTION COMPONENTS WHICH VARY FROM THE DESIGN.
- 3. RESPECTIVE PROPERTY OWNERS SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF ANY AND ALL WORK REQUIRING DISRUPTION OF ACCESS, POTABLE WATER, RECLAIMED WATER, AND WASTEWATER SERVICE. DISRUPTION IN SERVICE TO ANY PROPERTY OWNER SHALL NOT EXCEED 2 HOURS FOR WATER AND WASTEWATER.
- 4. MAINTAIN AND PROTECT THE INTEGRITY OF THE UTILITY POWER POLES DURING CONSTRUCTION.
- 5. ALL WATER COLLECTED AND PUMPED DURING TRENCH DEWATERING ACTIVITIES SHALL COMPLY WITH AND BE PERFORMED IN ACCORDANCE WITH NPDES REQUIREMENTS.
- 6. COVER AS MEASURED FROM FINISHED (PROPOSED) GRADE TO TOP OF THE PIPELINE SHALL BE A MINIMUM OF 36 INCHES FOR MAINS LESS THAN 20" DIAMETER AND MINIMUM 48 INCHES FOR MAINS 20" DIAMETER AND GREATER UNLESS OTHERWISE INDICATED.
- 7. PIPELINE ALIGNMENTS SHALL BE ADJUSTED (AS REQUIRED) HORIZONTALLY AND/OR VERTICALLY TO AVOID CONFLICTS WITH ACTUAL FIELD CONDITIONS AS UNCOVERED DURING CONSTRUCTION. FIELD ADJUSTMENT SHALL BE COORDINATED WITH, AND APPROVED BY, THE ENGINEER.
- 8. ALL FITTINGS, VALVES, PIPE AND APPURTENANCES TO BE RESTRAINED VIA MECHANICAL RESTRAINTS OR INTERNAL JOINT RESTRAINTS. THRUST BLOCKS TO BE FURNISHED AND INSTALLED IN ADDITION TO MECHANICAL RESTRAINTS WHERE NOTED.
- 9. REFER TO FDEP REQUIREMENTS AND TO AWWA CHAPTER C651-05 WHEN CONNECTING TO, AND DISINFECTING NEW AND EXISTING WATER MAINS. ALL FIRE HYDRANT ASSEMBLIES AND CONNECTING PIPES MUST BE INSPECTED, CLEANED, FLUSHED, AND DISINFECTED BEFORE THEY ARE CONNECTED TO THE NEWLY-INSTALLED PIPING. CLEARANCE MUST BE RECEIVED PRIOR TO TIE-ING TO EXISTING MAINS.
- 10. CONTRACTOR TO COORDINATE WITH COUNTY PUBLIC WORKS DEPARTMENT AND FIRE MARSHALL WHEN TAKING FIRE HYDRANTS OFFLINE. CONTRACTOR MUST RECEIVE APPROVAL FROM THE FIRE MARSHALL PRIOR TO TAKING FIRE HYDRANTS OUT OF SERVICE.
- 11. PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP EXCAVATIONS DRY AND SHALL PROVIDE ALL SHORING, SHEETING, AND BRACING NECESSARY TO PROTECT WORKMEN, ADJACENT STRUCTURES, UTILITIES, EXISTING PAVEMENT, OR TO MINIMIZE TRENCH WIDTH. PROVIDE ADEQUATE TRENCH SAFETY FOR TRENCH EXCAVATIONS, AND COMPLY WITH OSHA AND THE STATE OF FLORIDA TRENCH SAFETY REGULATIONS. THE COST OF DEWATERING SHALL BE INCLUDED IN THE PIPING PAY ITEMS.
- 12. CONTRACTOR TO COORDINATE WITH FPL AND/OR OTHER POWER COMPANIES PRESENT WITHIN RIGHT-OF-WAY FOR POWER POLE STABILIZATION AND DE-ENEGIZING OF POWER LINES DURING CONSTRUCTION. CONTRACTOR TO SUPPORT POWER POLES AND OTHER UTILITIES DURING CONSTRUCTION.
- 13. JACK AND BORE OF STEEL PIPE SHALL ALSO COMPLY WITH MANATEE COUNTY STANDARDS DETAIL UG-3.

- 14. ARV(S) ARE SHOWN IN LOCATIONS BASED ON DESIGN PROFILE. ARV(S) ARE TO BE INSTALLED AT ALL HIGH POINTS CREATED DURING CONSTRUCTION. LOCATIONS TO BE APPROVED BY COUNTY PRIOR TO CONSTRUCTION OF ARV.
- 15. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAILBOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEMS DUE TO CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.

### SPECIAL CONDITIONS

- 1. BENCH MARK DATUM IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- 2. CONSTRUCT HORIZONTAL AND VERTICAL TRANSITION OF PIPELINE BY DEFLECTION OF PIPE JOINTS USING NOT MORE THAN 75% OF THE MAXIMUM DEFLECTION RECOMMENED BY THE MANUFACTURER. SHOP DRAWINGS SHALL BE FURNISHED FOR APPROVAL OF ALL PIPE CONNECTIONS, TRANSITIONS, AND SPECIAL FITTINGS PRIOR TO FABRICATION OR DELIVERY TO JOB SITE.
- 3. PROVIDE TEMPORARY THRUST RESTRAINT, BRACING, TESTING PLUGS, AND OTHER DEVICES NECESSARY TO SUCCESSFULLY COMPLETE PRESSURE TESTING OF PIPING SYSTEMS.
- 4. ALL PROPOSED PIPE AND FITTINGS WITHIN PROJECT LIMITS SHALL BE RESTRAINED JOINT PER DETAIL UG-9. DUCTILE IRON PIPE AND FITTINGS ARE TO BE WRAPPED IN BLUE (WATER), PURPLE (RECLAIMED), OR GREEN (WASTERWATER) POLYETHYLENE WRAP IN ACCORDANCE WITH AWWA STANDARD C-105. POLYETHYLENE WRAP SHALL BE INCLUDED IN THE PRICE OF THE PIPE. EXISTING MAINS TO BE POST RESTRAINED PER DETAIL UG-8 AND/OR UG-9.
- 5. ALL EXISTING WATER MAINS, WASTEWATER FORCE MAINS, AND RECLAIMED WATER MAINS IDENTIFIED TO BE REMOVED OR PLACED OUT OF SERVICE CANNOT BE REMOVED OR PLACED OUT OF SERVICE UNTIL PROPOSED FACILITIES HAVE BEEN CONSTRUCTED, TESTED, CLEARED, AND PLACED IN SERVICE.
- 6. WATER, RECLAIMED, AND WASTEWATER SERVICE CONVEYANCE MUST BE MAINTAINED FOR ALL CUSTOMERS AT ALL TIMES, EXCEPT FOR MINOR DISRUPTIONS DURING CONNECTIONS/CHANGEOVERS. COORDINATE ALL SYSTEM SHUT DOWNS WITH COUNTY OPERATIONS STAFF AND AS REQUIRED IN THE SPECIFICATIONS.
- ALL UTILITY RELOCATION MUST BE IN PLACE, TESTED, CLEARED AND OPERATIONAL PRIOR TO ROADWAY CONSTRUCTION THAT IMPACTS EXISTING UTILITIES.
- 8. PROPOSED PIPE SYMBOLOGY

PROPOSED WATER MAINS, RECLAIMED, AND WASTEWATER

PROPOSED CASING

REMOVE, RELOCATE, AND/OR ABANDON

© PROPSED MAIN OFFSET DISTANCE FROM © PROPOSED MAIN STA 344+56, 124.6 LT

PROPOSED FITTING: 📿	(EXAMPLE)
PROPOSED GATE VALVE:	Η
PROPOSED PLUG VALVE:	$\bowtie$
VVH BY MANATEE COUNTY:	

- 9. IN THE EVENT OF A WATER OR SEWER MAIN BREAK, CALL 24 HOUR EMERGENCY NUMBER (941) 792-8811 EXT. 5216
- 10. ALL CONCRETE SHOWN IN THESE DRAWINGS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO CLASS NS CONCRETE.
- 11. THESE CONTRACT DOCUMENTS INCLUDE BY REFERENCE THE MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS APPROVED FEBRUARY 2020.
- 12. SUBMIT AND OBTAIN APPROVAL OF SHOP DRAWINGS, CONSTRUCTION SCHEDULE AND THE FOLLOWING PLANS PRIOR TO BEGINNING CONSTRUCTION (NOT LIMITED TO):
  - A. SHUTDOWN SCHEDULE AND PLAN TO INCLUDE BUT NOT LIMITED TO PIPE DEWATERING AND DISPOSAL PLANS; FOR WASTEWATER, POTABLE WATER, AND RECLAIMED WATER MAIN CONNECTION SCHEDULE FOR MAINS (INCLUDING LINESTOPS); WATER MAIN SAMPLING PLAN AND LOCATIONS FOR BACTRIOLOGICAL TESTING; PRESSURE TESTING SCHEDULE; LINESTOP LOCATIONS.
- B. EROSION CONTROL AND STORMWATER POLLUTION PROTECTION PLANS TO BE COORDINATED WITH ROADWAY PROJECT.
- C. COST FOR PLANS DEVELOPMENT TO BE INCORPORATED INTO COST OF PROPOSED MAINS.
- 13. ALL CONCRETE THRUST BLOCKS INSTALLED FOR TESTING PROCESS SHALL BE REMOVED AND DISPOSED OF PRIOR TO FINAL ACCEPTANCE.
- 14. ADJUST ALL VALVES (LIDS AND STEMS), ARVS, MANHOLE LIDS, VAULT ACCESS HATCHES, AND FIRE HYDRANTS WITHIN PROJECT LIMITS TO NEW/PROPOSED GRADE. COST TO BE INCORPORATED INTO INITIAL BID PRICE.

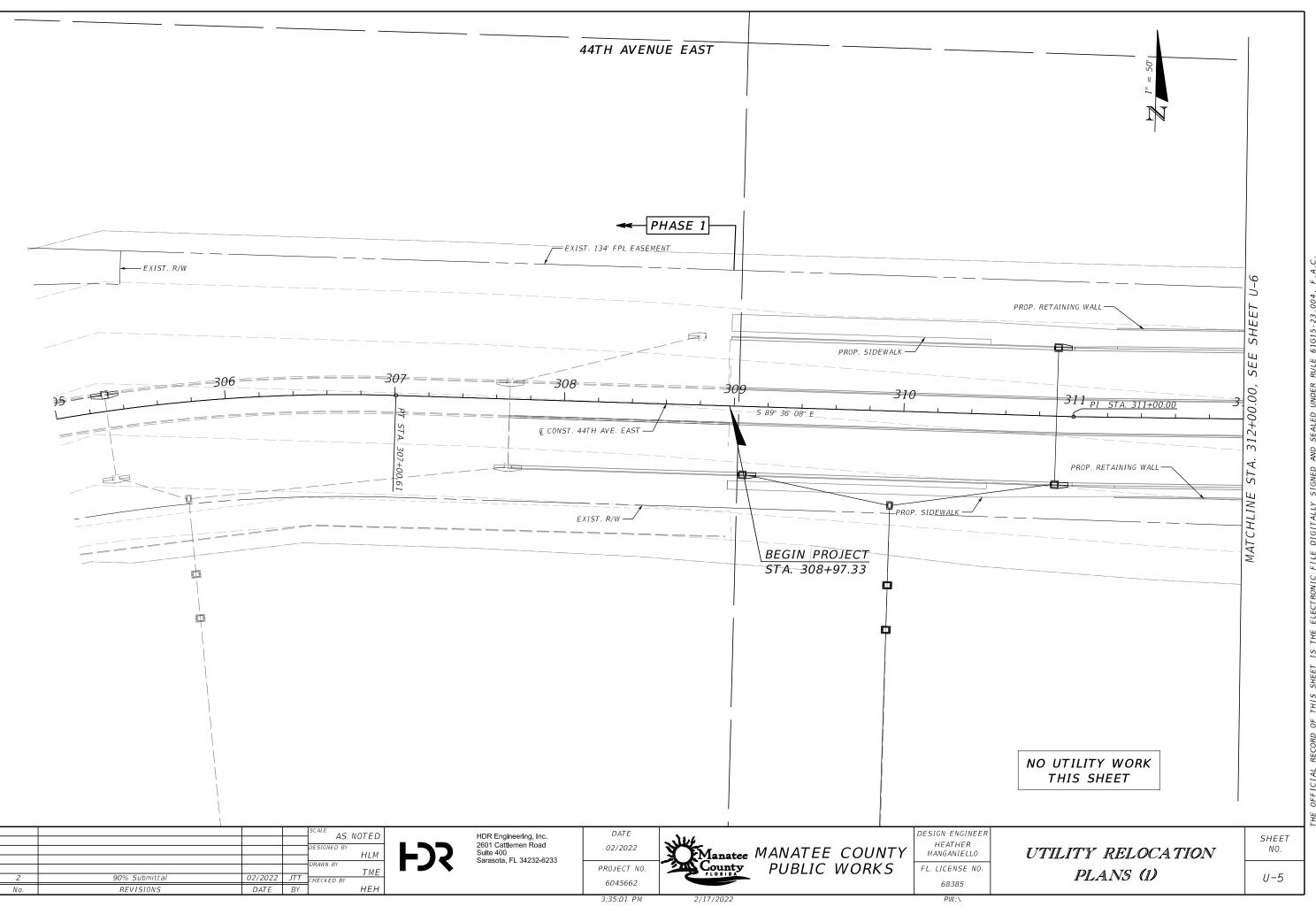
UTILITY NOTES:

- THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUE ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHO POINTS HAVE NOT BEEN VERIFIED.
- 2. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISH
- 3. UTILITY/AGENCY OWNERS:

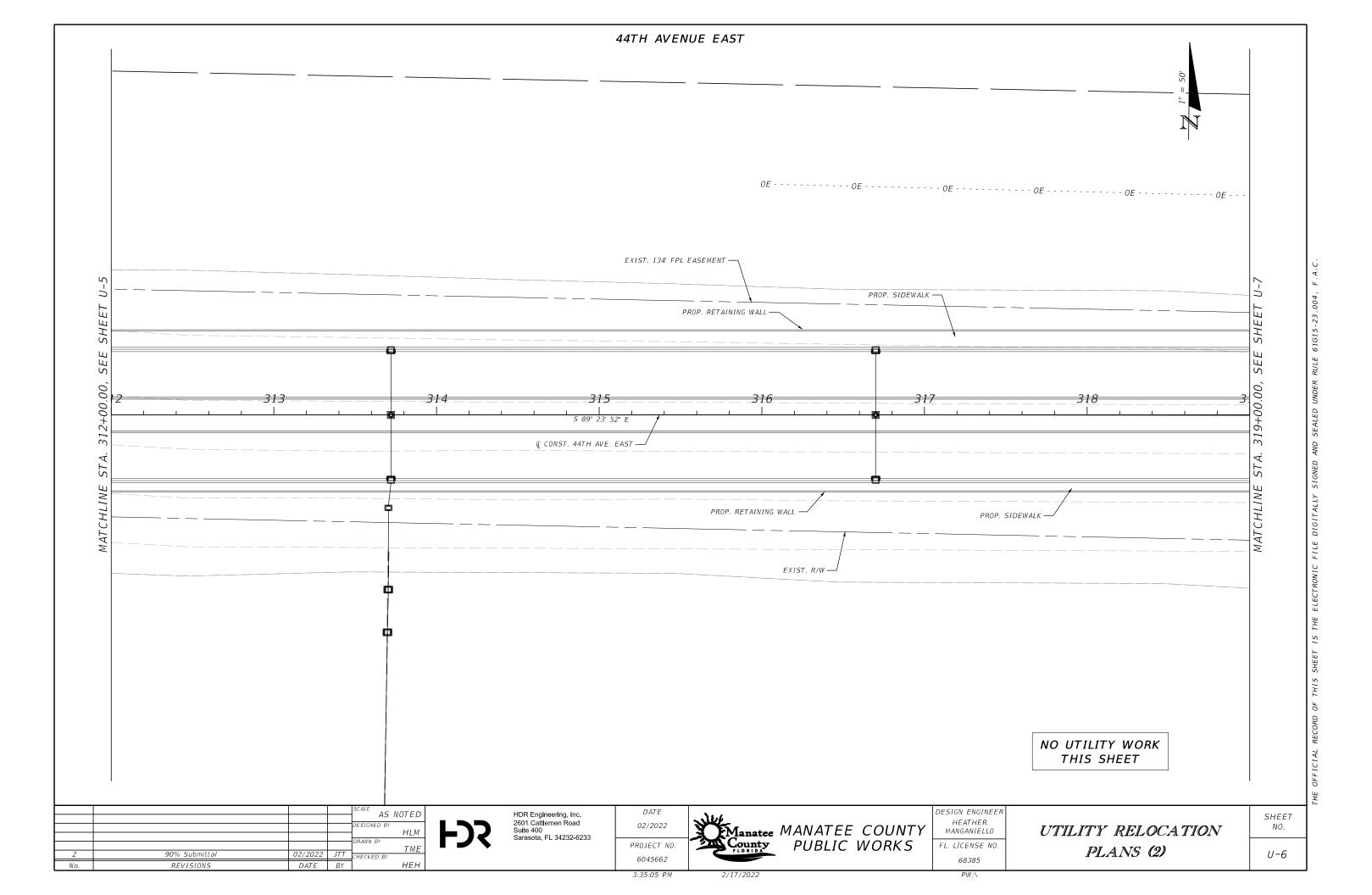
GTLETTTANY SPECTRUM COMMUNICATIONS FRONTIER COMMUNICATIONS FLORIDA POWER & LIGHT - DISTRIBUTION FLORIDA POWER & LIGHT - TRANSMISSION MANATEE COUNTY UTILITIES CONTACT JAMES CRUZAN DENISE HUTTON GREG COKER DALIANA AMADOR KATHY MCMAHON

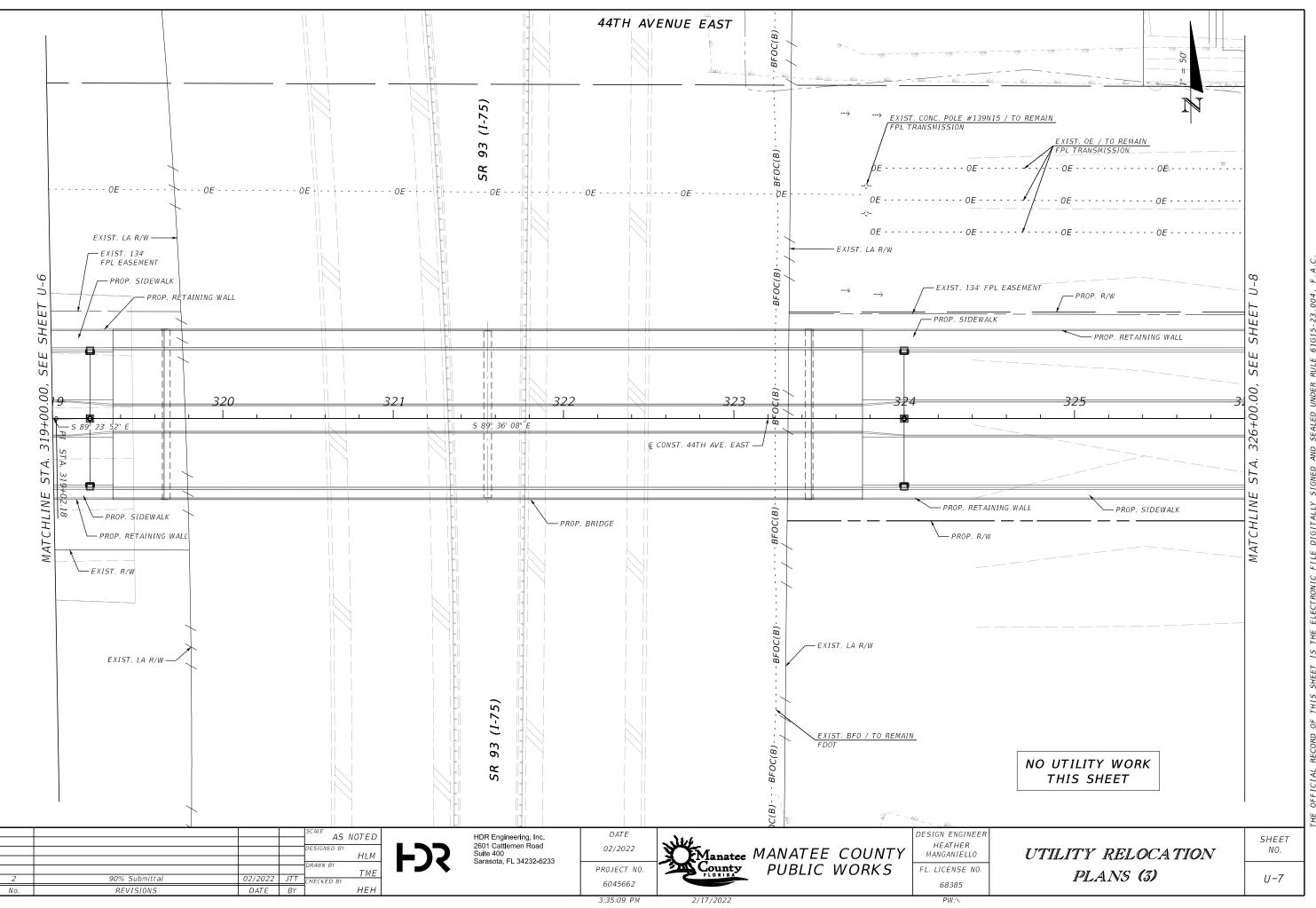
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			DRAWN BY	Sarasota, I	FL 34232-6233	County PUBLIC WORKS	
2	90% Submittal	02/2022	JTT CHECKED BY		6045662	FLORIDA TOBEIC WORKS	68385
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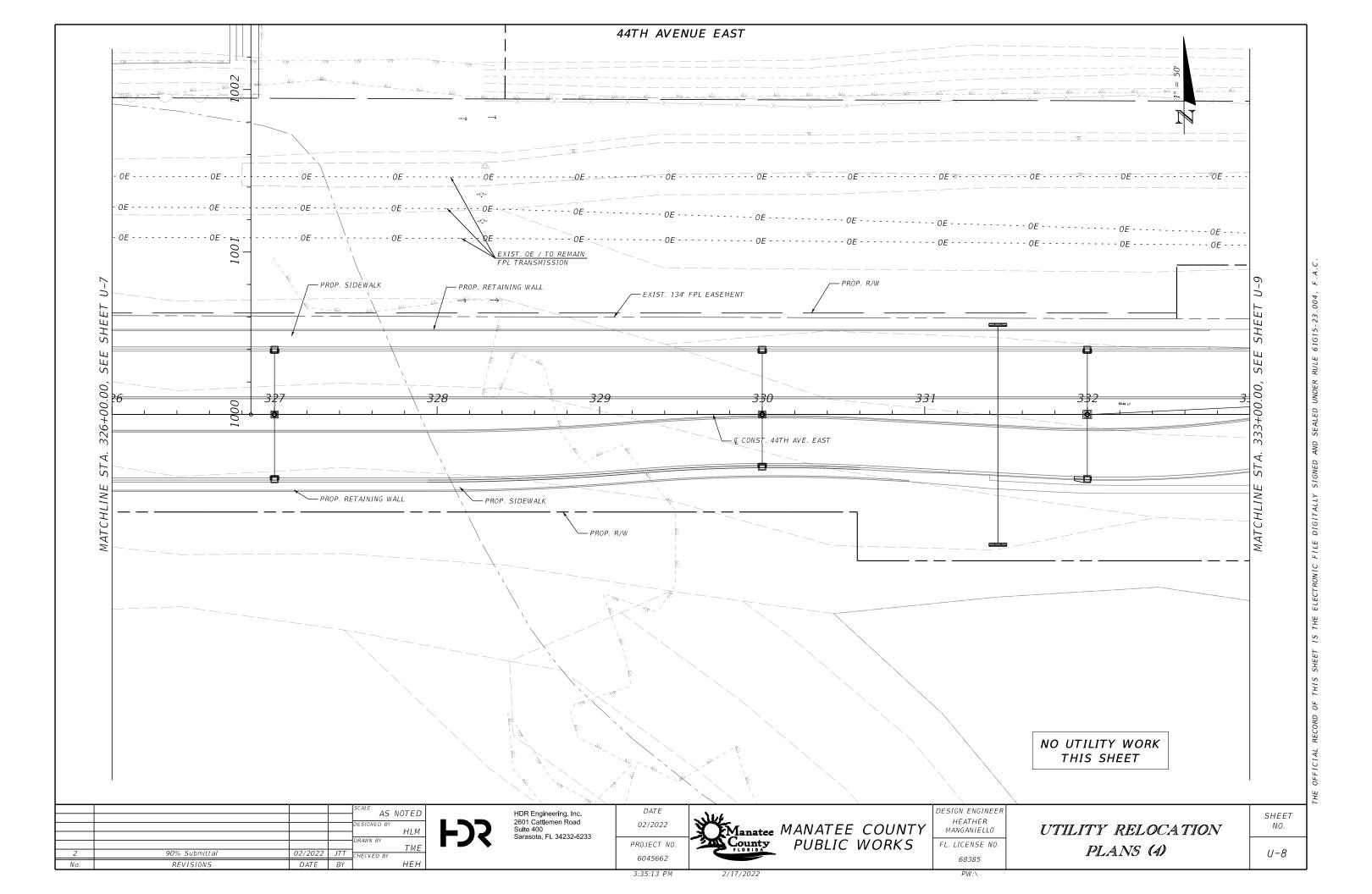
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IDING THOSE DESIGN D BE CONSIDERED A HOWN. INTERPOLATIO SE NOTED. TELEPHONE / 727-329-284 941-906-6722 941-723-433 561-904-356 941-792-881	PPROXIMATE NS BETWEEN NUMBER	ONLY. THE		
GL	ENER.	AL NOTES		SHEET NO. U-4

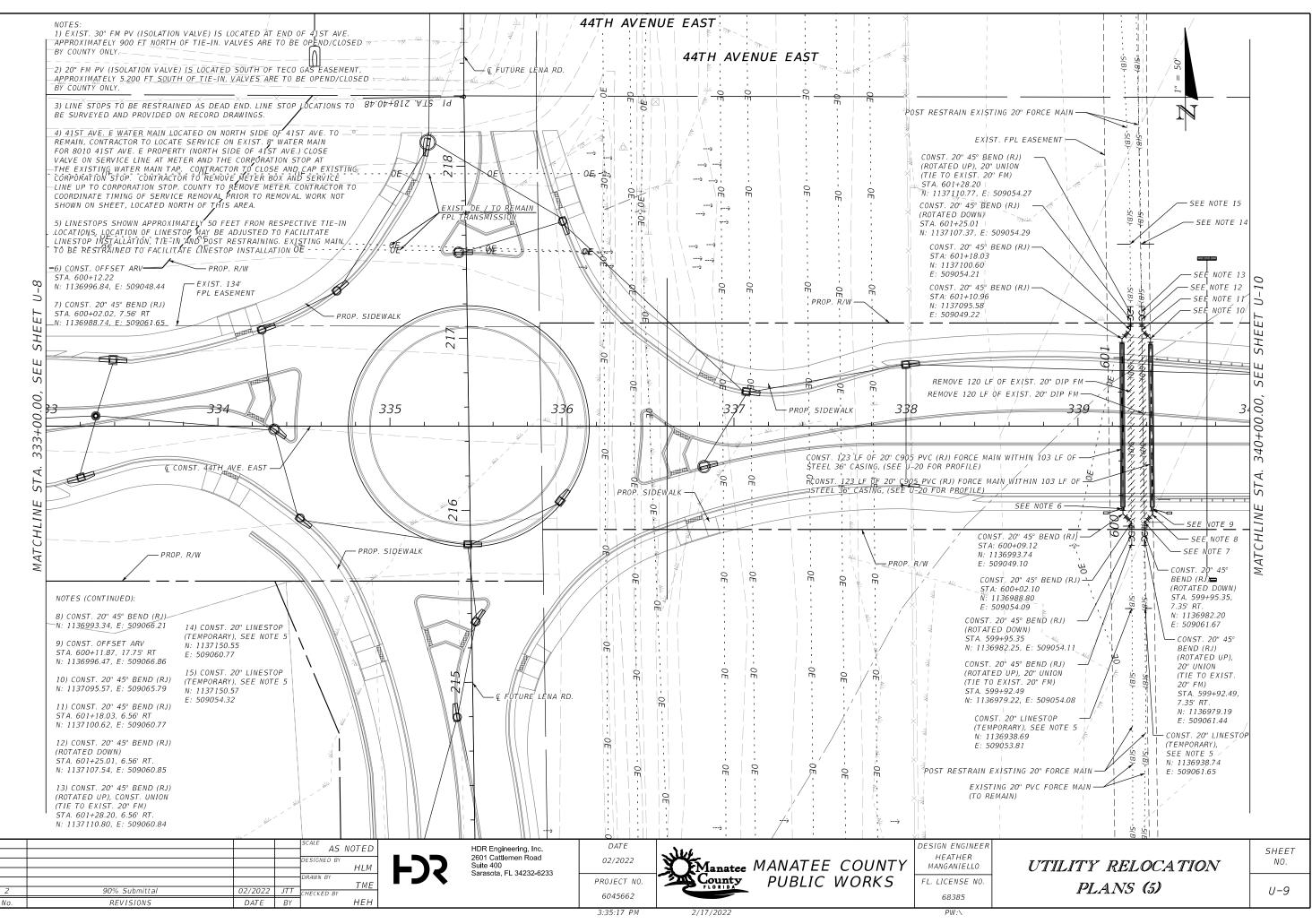


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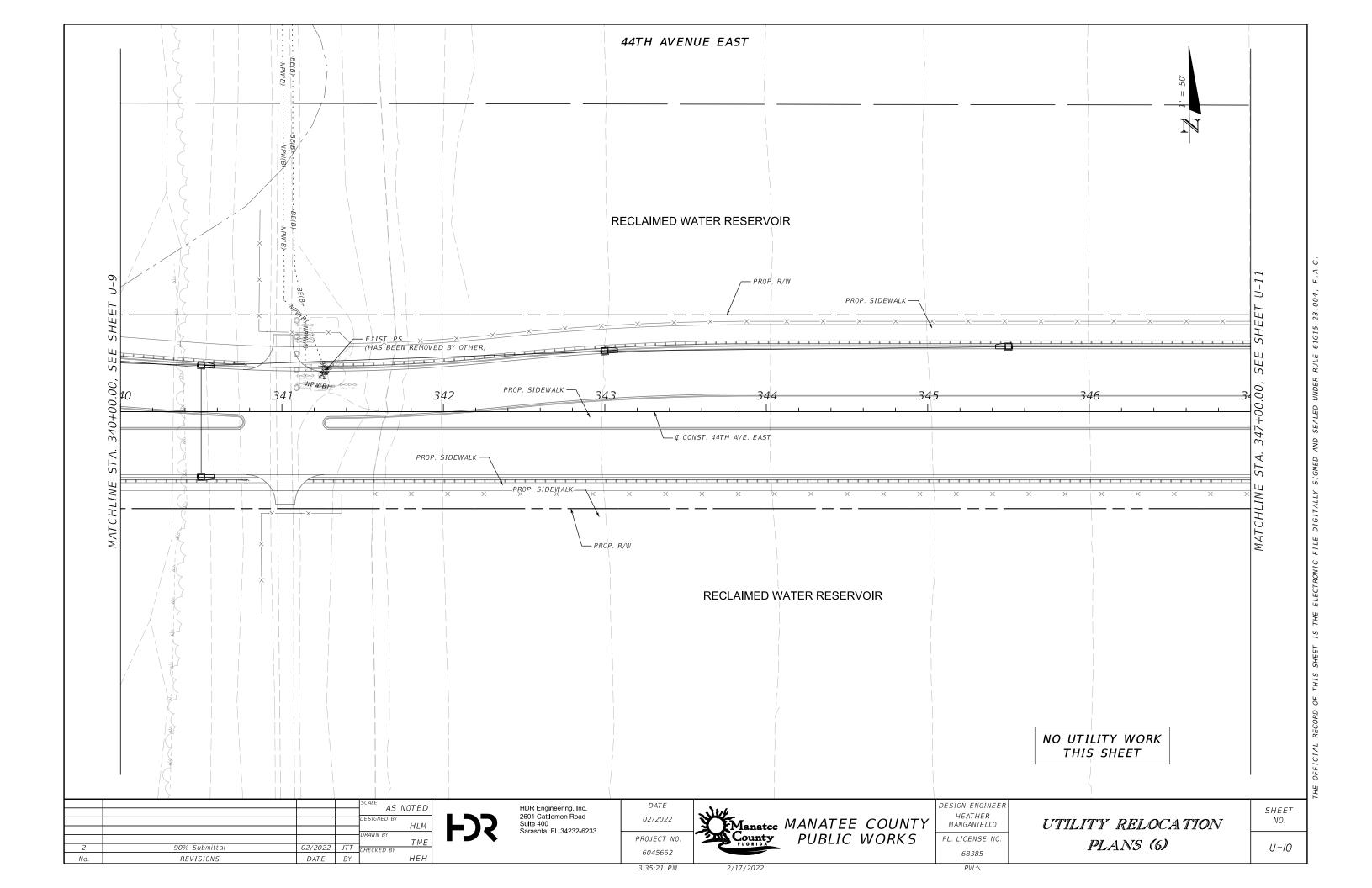


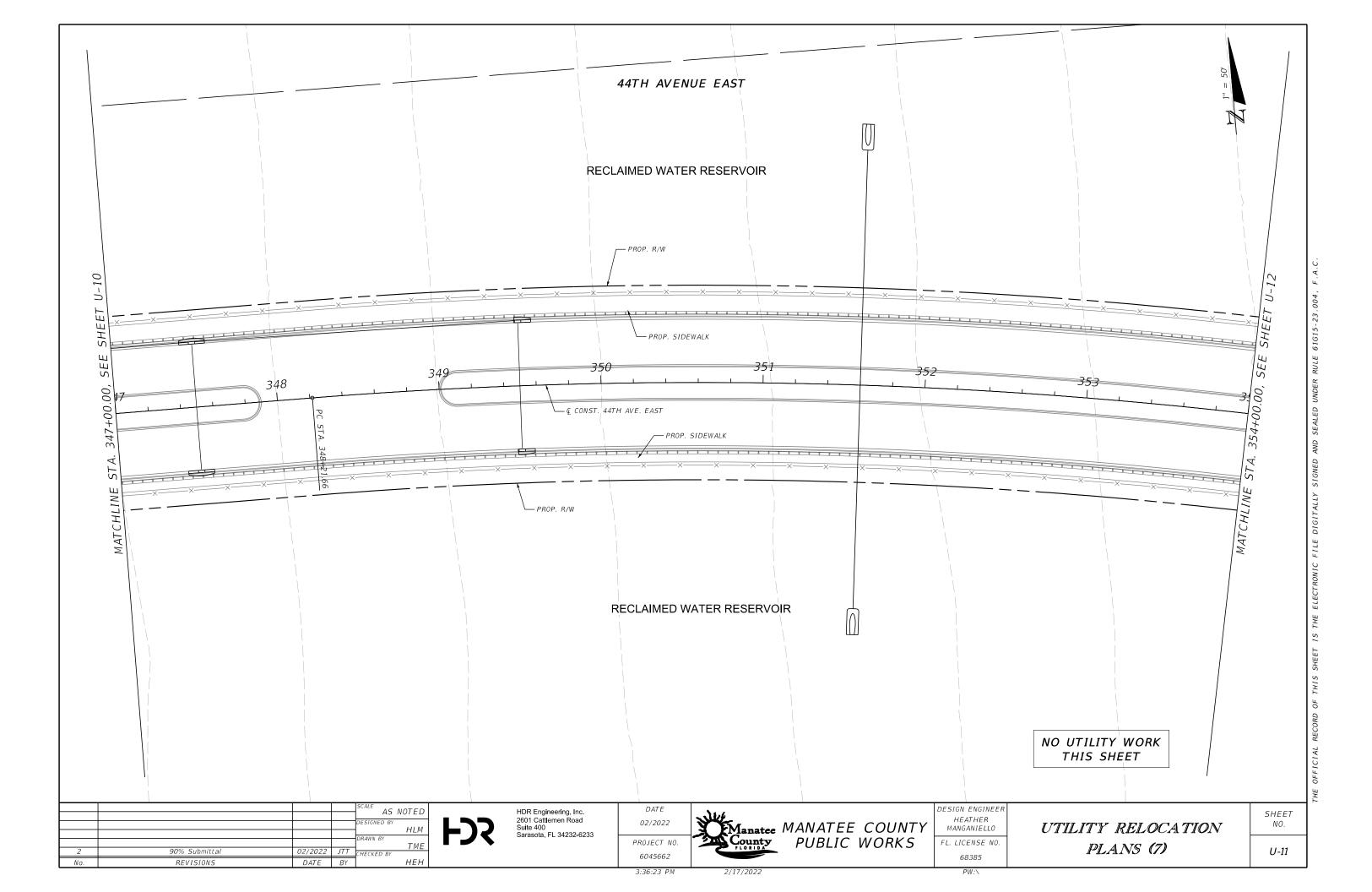


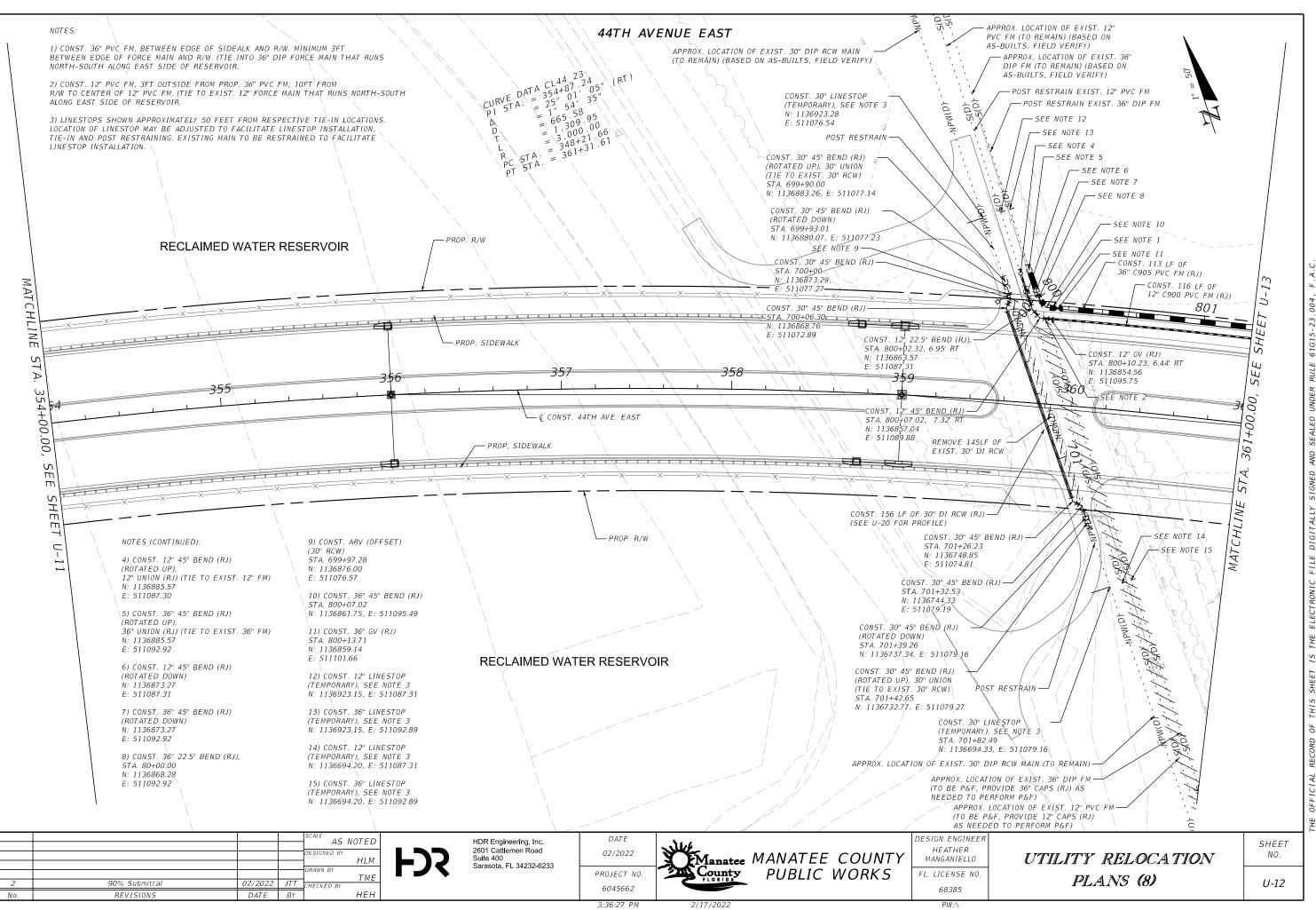


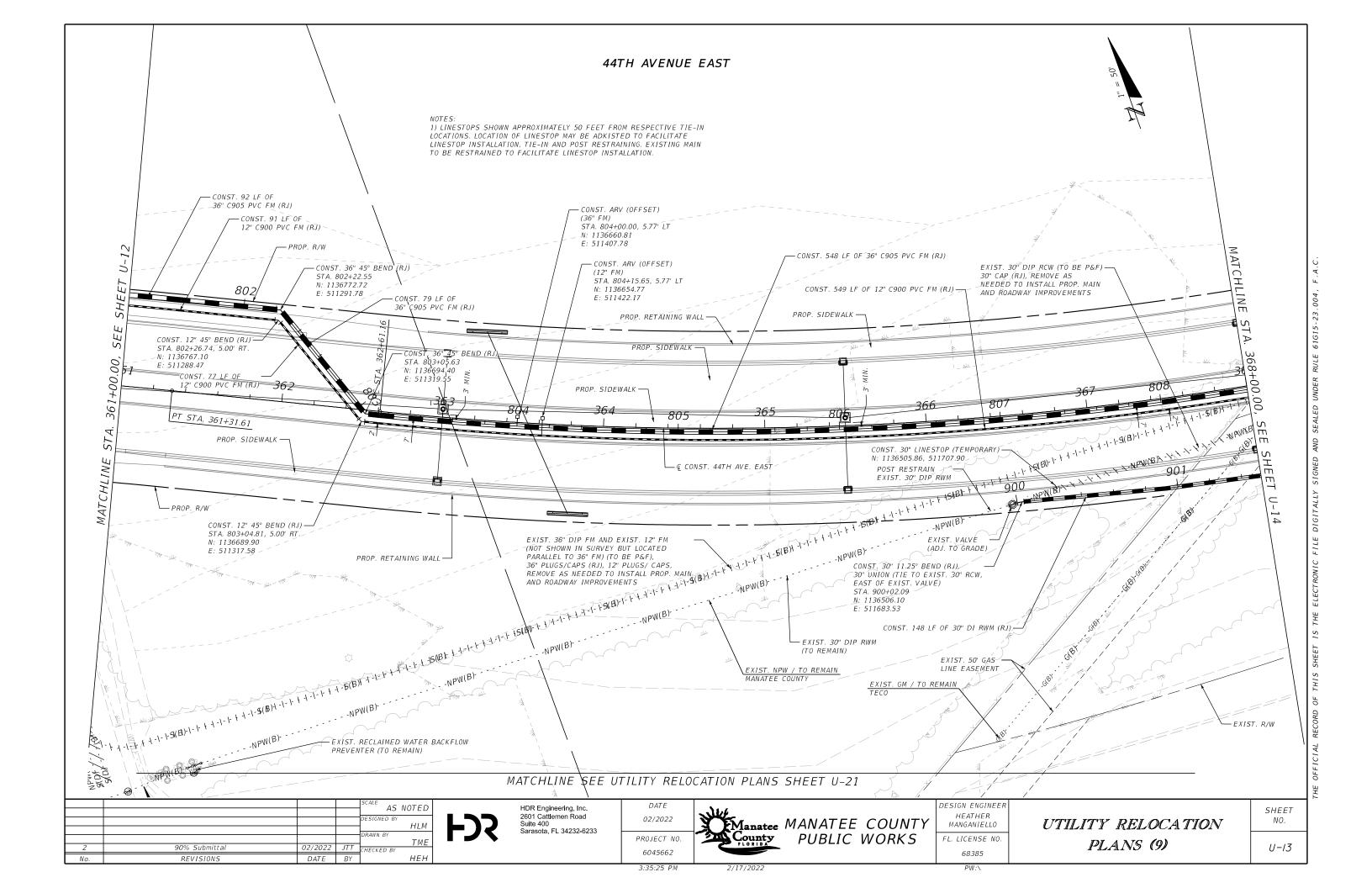


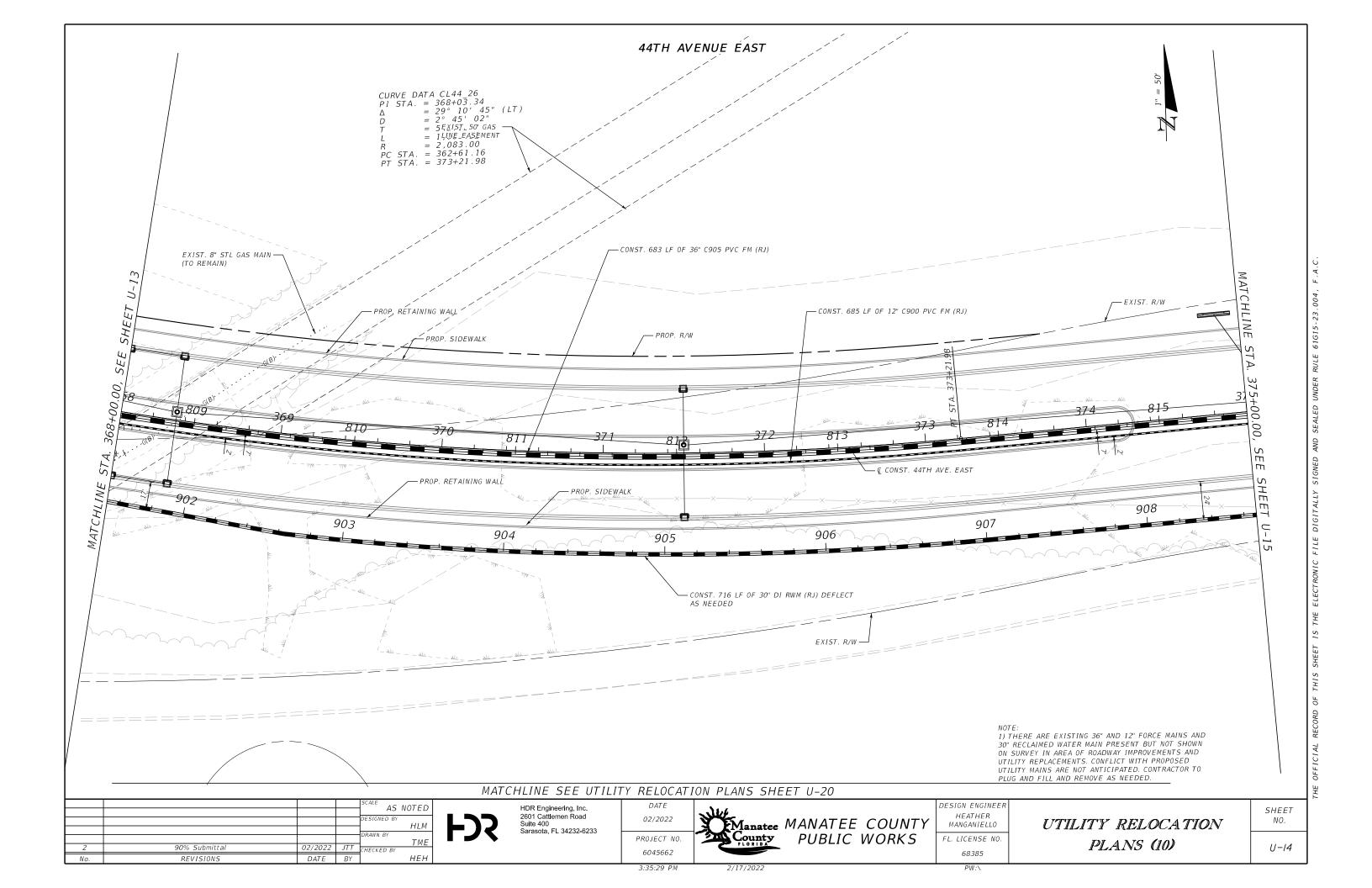


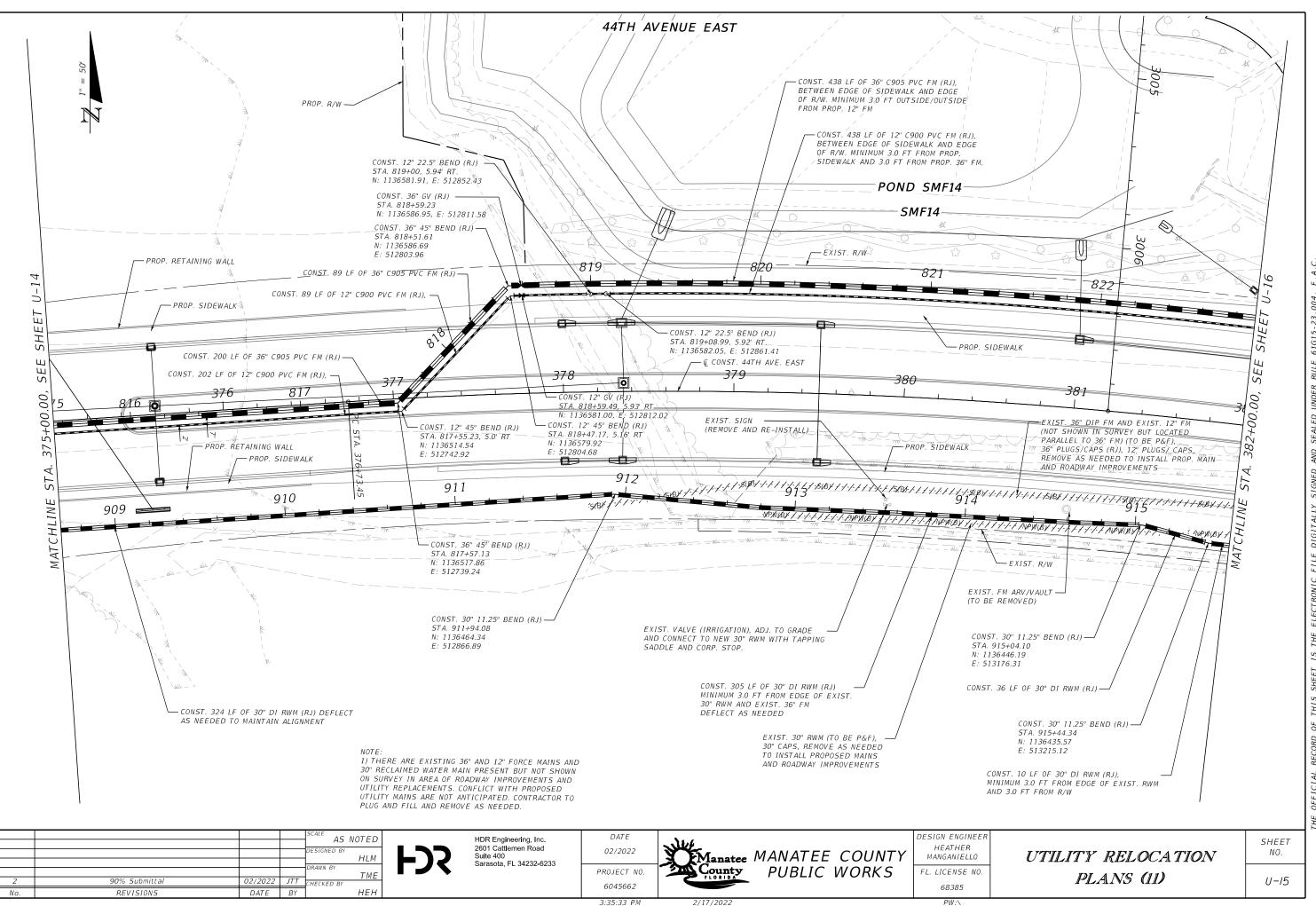


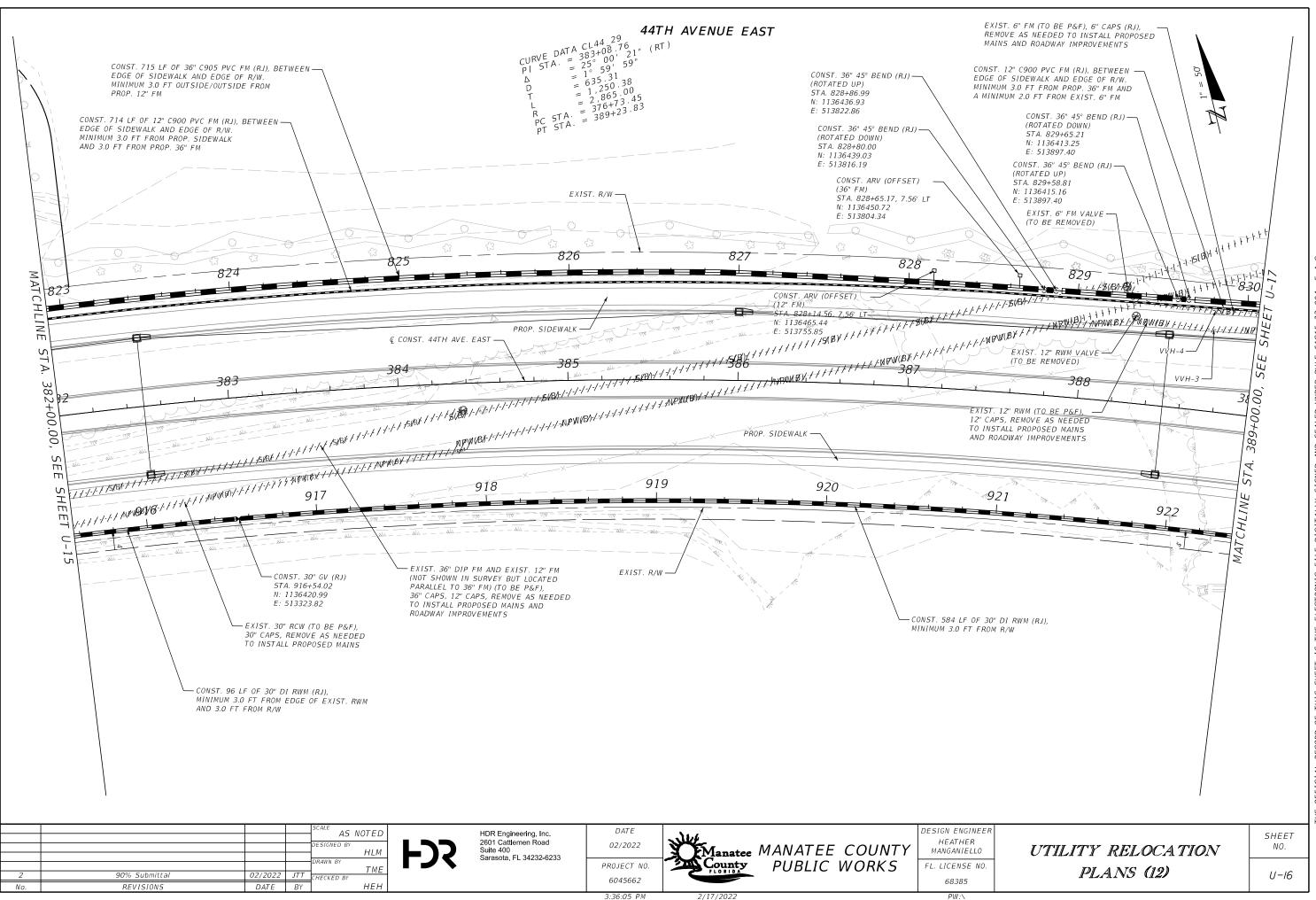


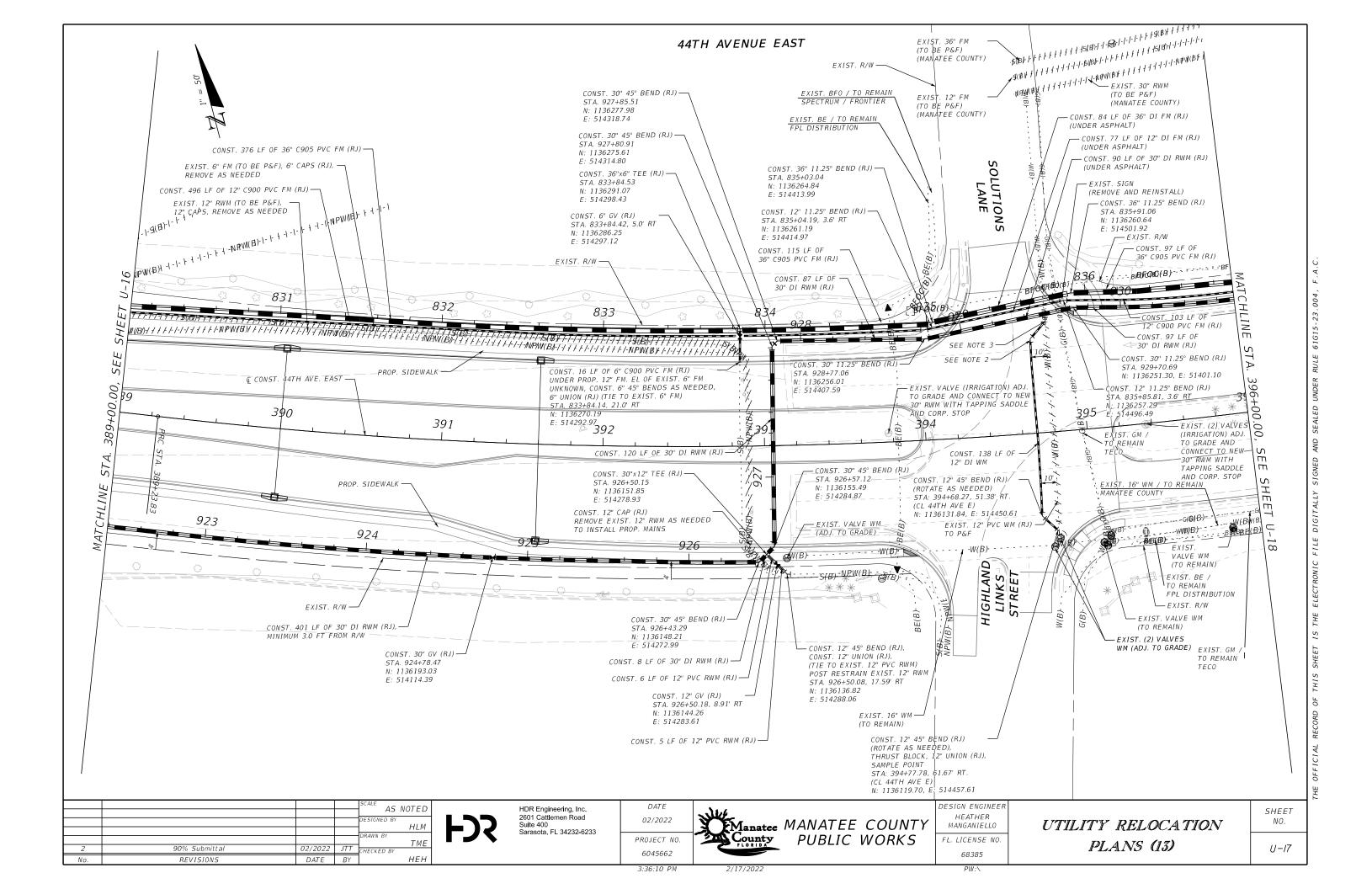


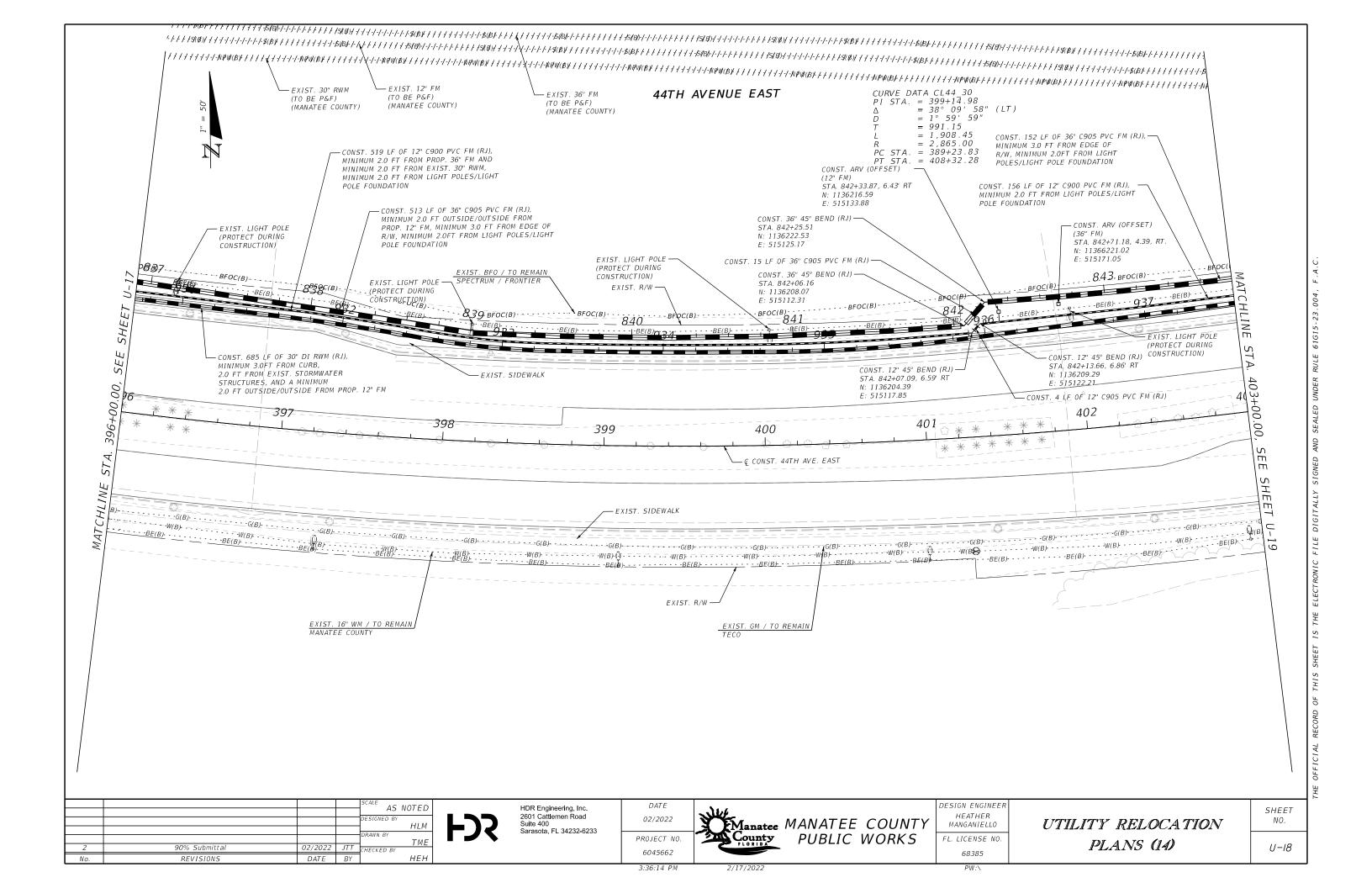


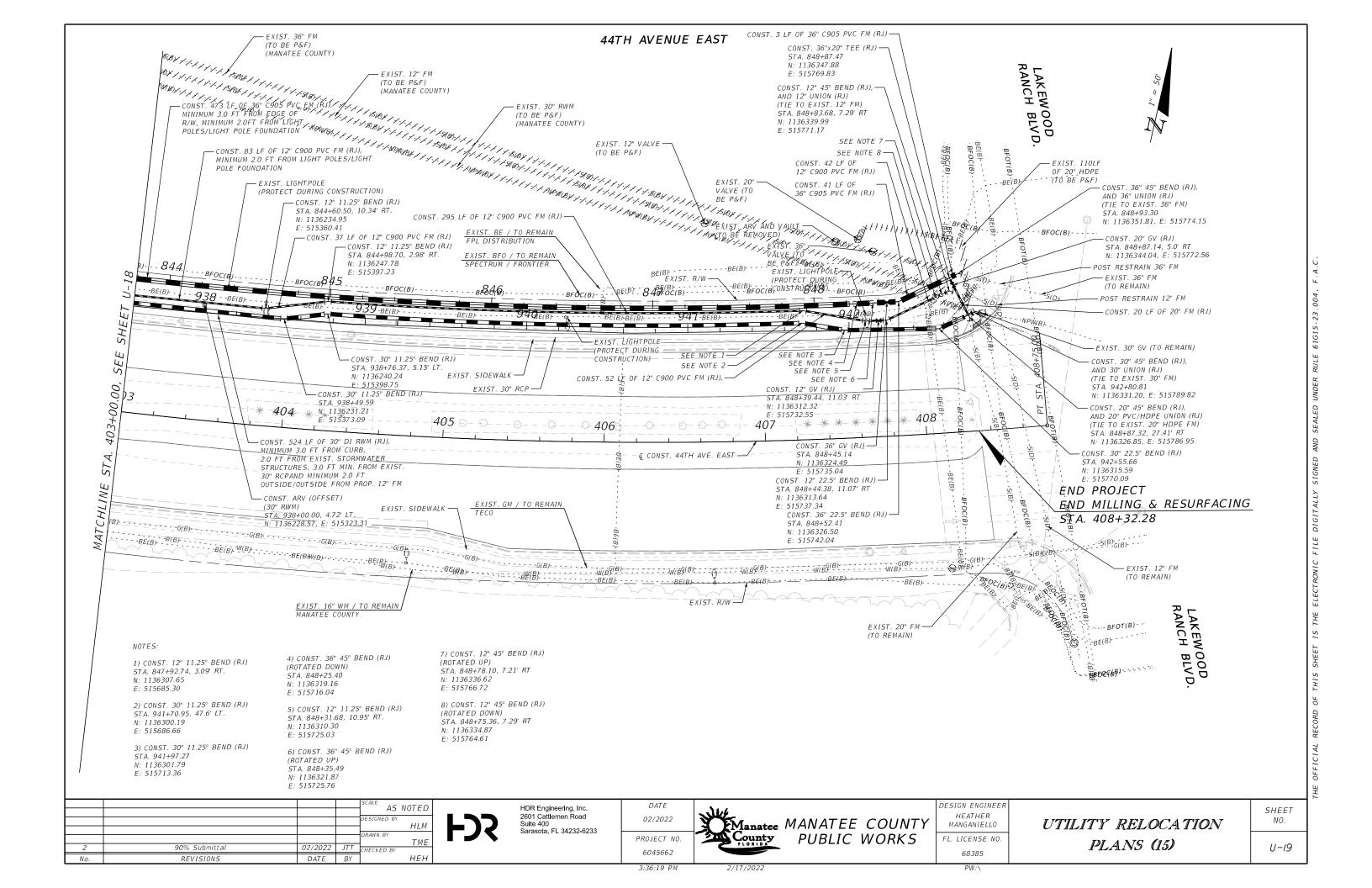




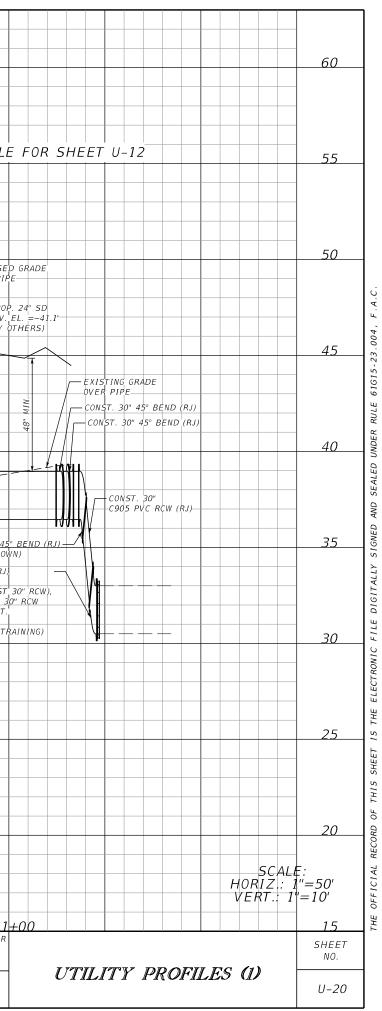




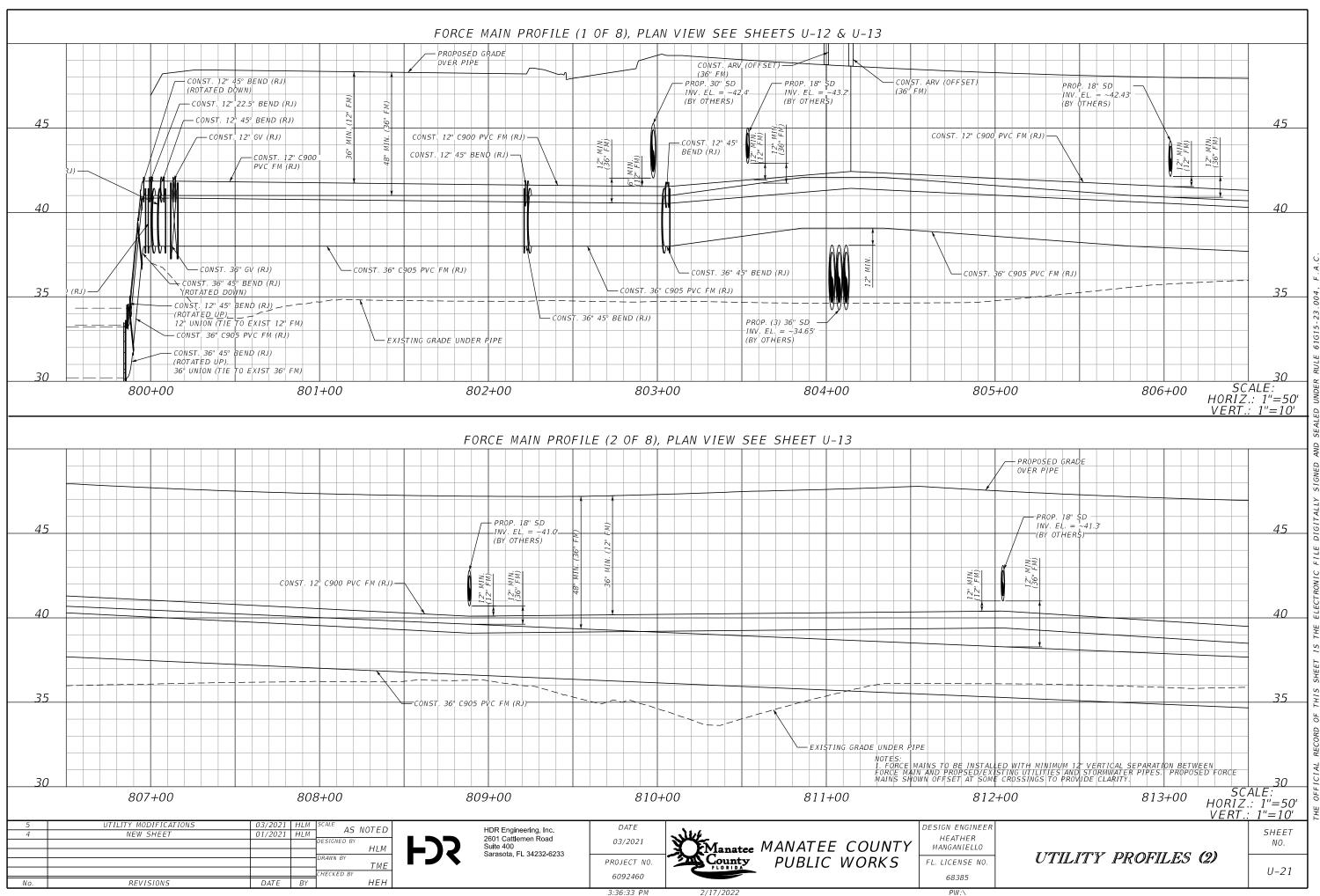


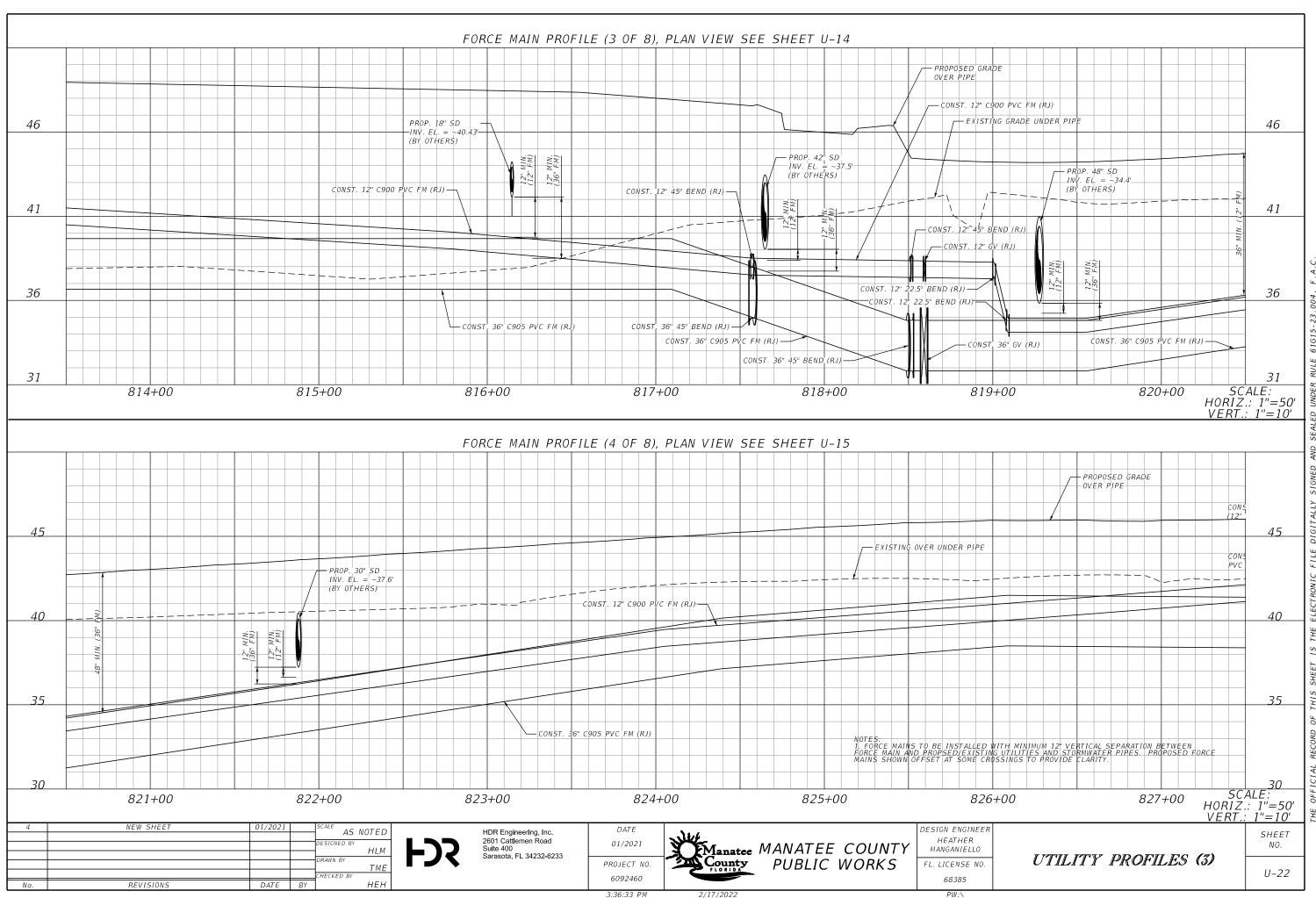


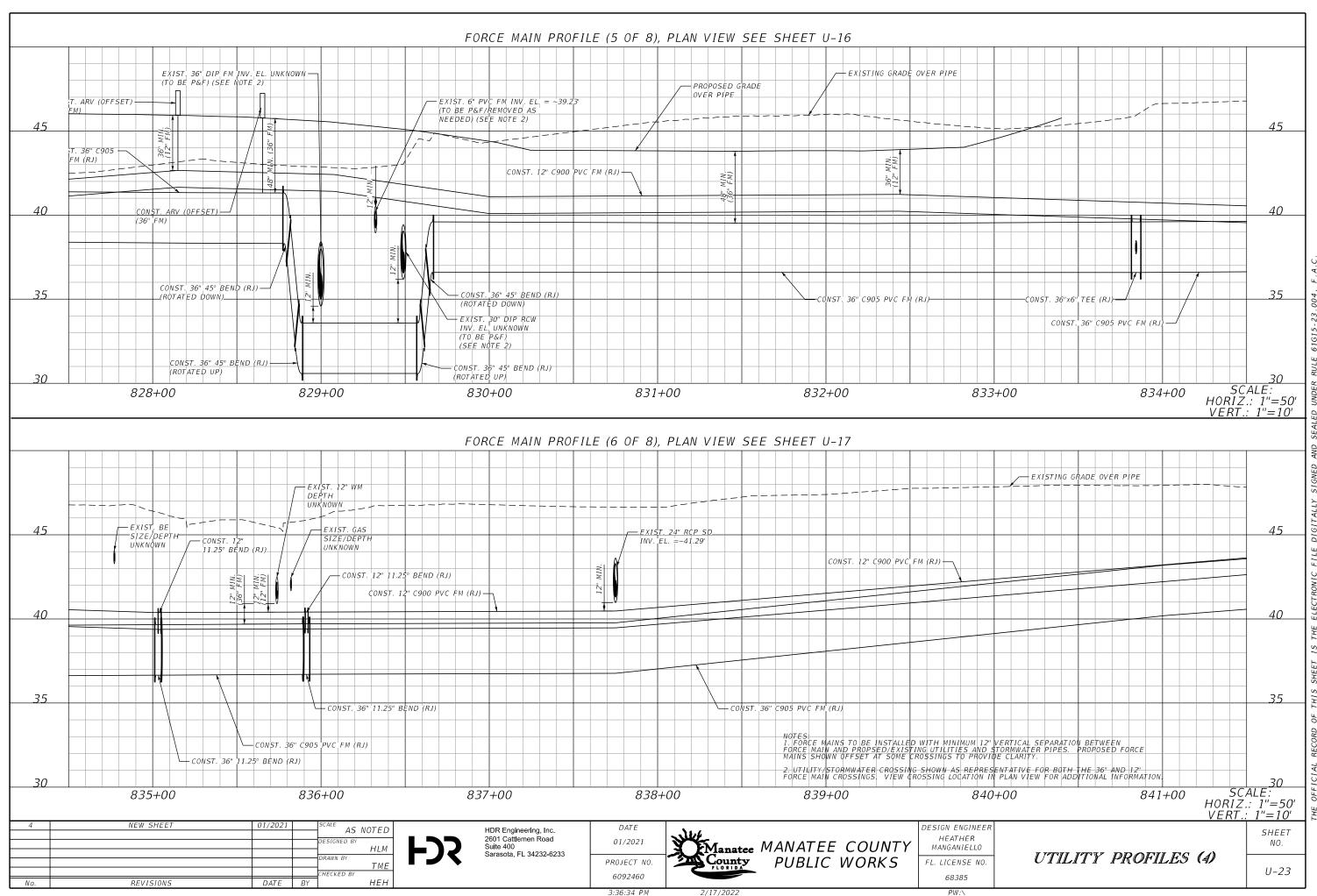
					I			
55								
50	SANITARY FOR	RCE MAIN PROFILES FC	DR SHFFT U-9				RECLA	IMED PROFIL
50								
	20" FORCE N	ILE IS REPRESENTATIN MAIN DEFLECTIONS ON	SHEET U-9)					
45		- PROPOSED GRADE						PROPOSI
		OVER PIPE						OVER PI
								PRC
							CONST, 30"	INV (BY
40	PROP. 30'	= ~34.75'					45° BEND (	RJ) ¥
	(BY OTHE	ER'S)						
		20''					CONST, 30" 45° BEND (	RJ)
	δο C905 PV	C (RJ) - CON T. 36" - 45°	IST. 20" BEND (RJ)				CONST. 3	0" " RCW ( <u>R</u> J)
35	CONST. 20" 45° - STEE BEND (RJ)	L CASING	IST. 20" 45°					
	CONST. 20" 45°		ID (RJ)					12" N
			NST, 20" ' BEND (RJ)					
			DTATED DOWN)					
20	∧d-li∂ ∂l						CONST. 30" 45° BEN	
30							(ROTATED DOWN)	(ROTATED DC
		STING GRADE OVER PIPE				10	CONST 20" (RO	ST. 30" 45° BEND (R. TATED UP),
	CONST. 20"						CONST. 30" (RO) C905 PVC RCW (R39" (RE) (RE) POL	UNION (TIE TO EXIS T RESTRAIN EXIST.
	45° BEND (RJ) (ROTATED DOWN)							PAIR/REPLACE EXIST YETHYLENE AP AFTER POST REST
25		CONST. 20"					CONST. 30" 45° B	
	CONST. 20"	45° BEND (RJ) (ROTATED UP)					(ROTATED UP), 30" UNION (TIE T POST RESTRAIN (	0 EXIST 30" RCW),
	45° BEND (RJ) (ROTATED UP)	CONST. 20" UNION (RJ) (TIE TO EXIST. 20" DIP FM)					(REPAIR/REPLACE POLYETHYLENE	EXIST.
	CONST. 20" UNION (RJ) (TIE TO EXIST, 20" DIP FI	M) POST RESTRAIN -					WRAP AFTER POS	T RESTRAINING)
20		EXIST. 20" FM						
	ΕXIST. 20" FM	CONST. 20" LINES						
	CONST. 20" LINESTOP (TEMPORARY)	(TEMPORARY)						
15								
				SCALE HORIZ.: 1	::			
				HORIZ.: 1 VERT.: 1"	=50' =10'			
10								
4	600+00 New Sheet	01/2021 SCALE AS NOTED	HDR E	ngineering, Inc.	DATE		100+00	DESIGN ENGINEER
		DESIGNED BY	2601 C Suite 4	attlemen Road 00	01/2021	Manatee MANA	TEE COUNTY	, HEATHER MANGANIELLO
		DRAWN BY TME		ota, FL 34232-6233	PROJECT NO.	County PUB	LIC WORKS	FL. LICENSE NO.
No.	REVISIONS	DATE BY HEH			6045662			68385
					3:36:32 PM	2/17/2022		PW:\



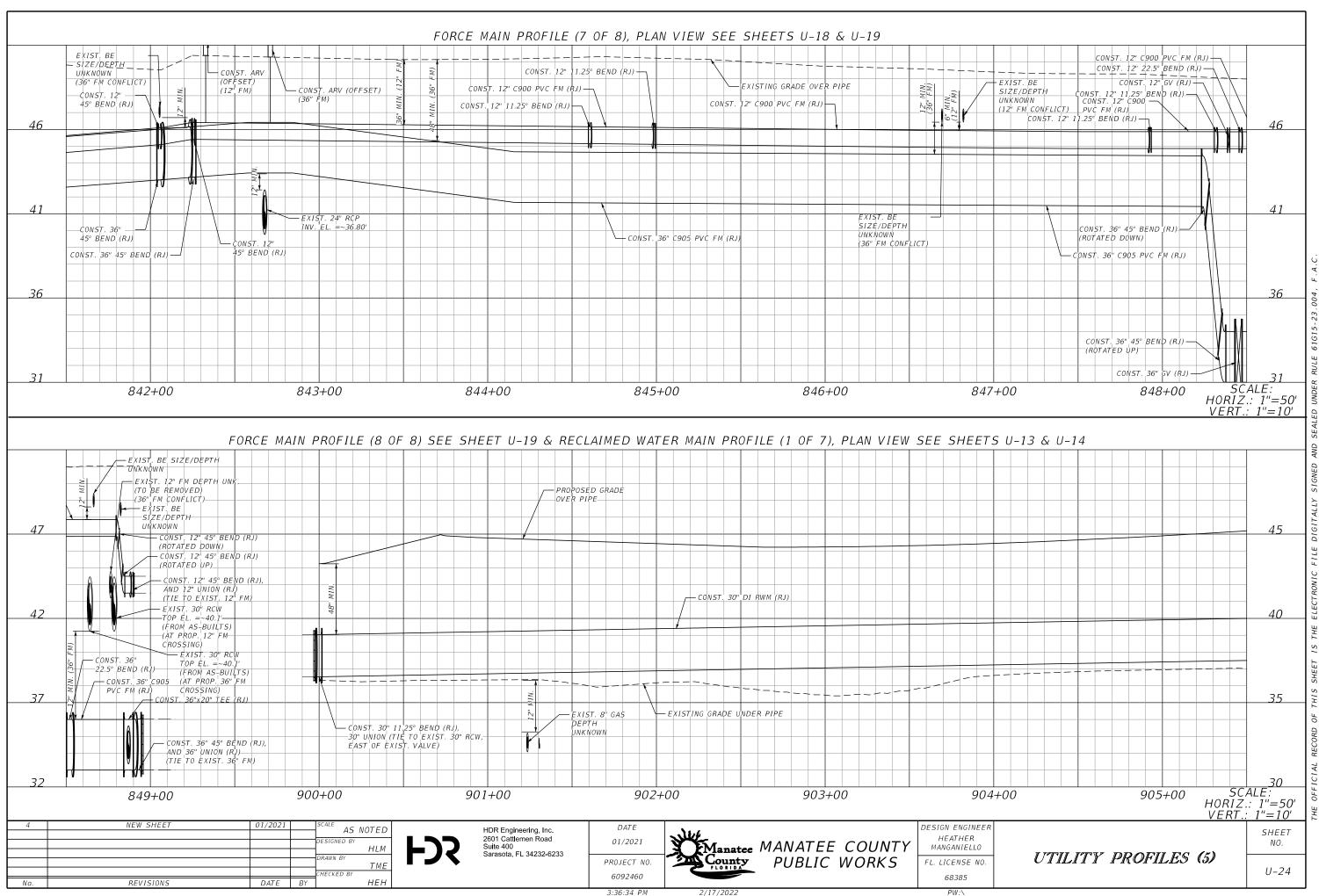
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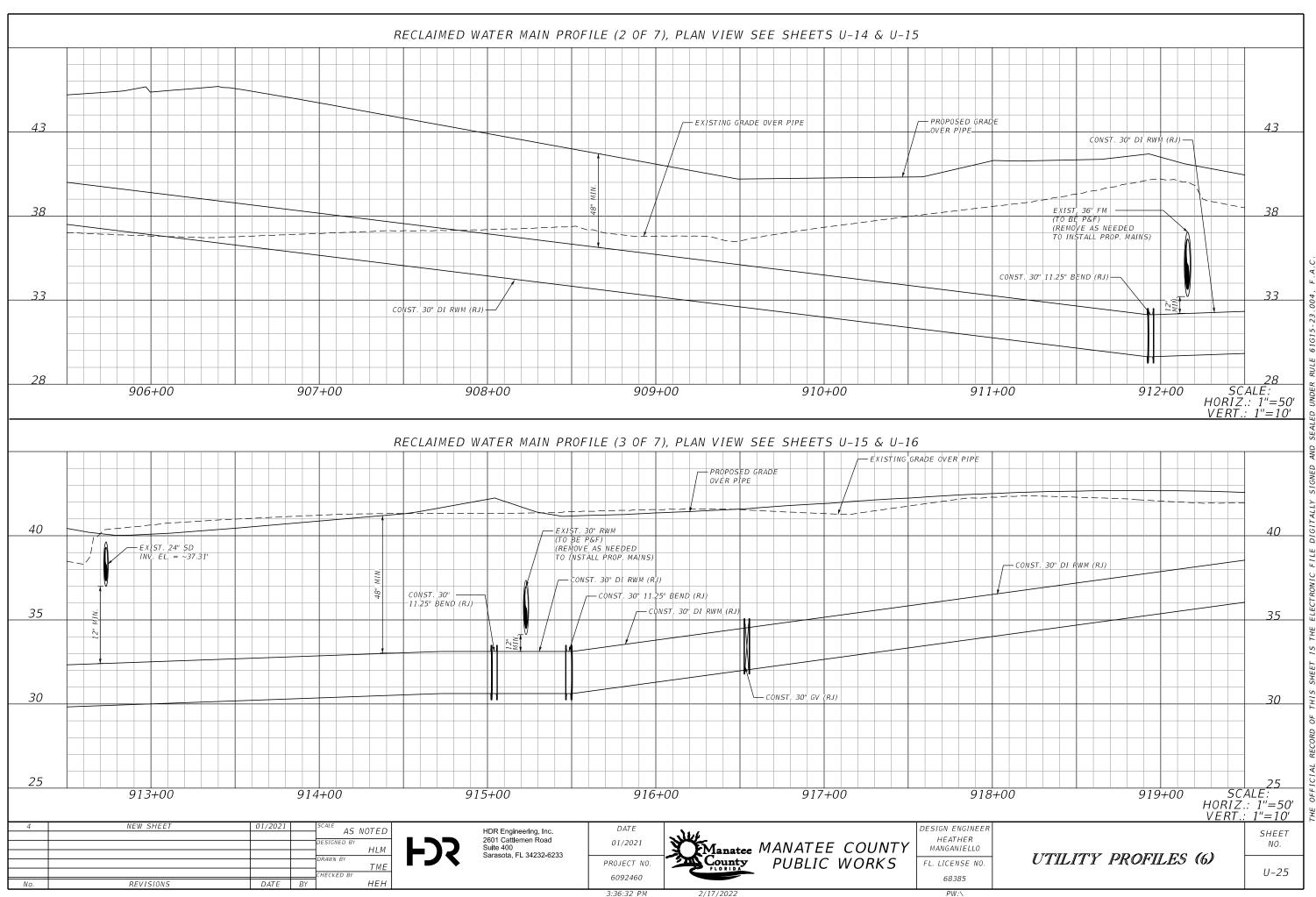


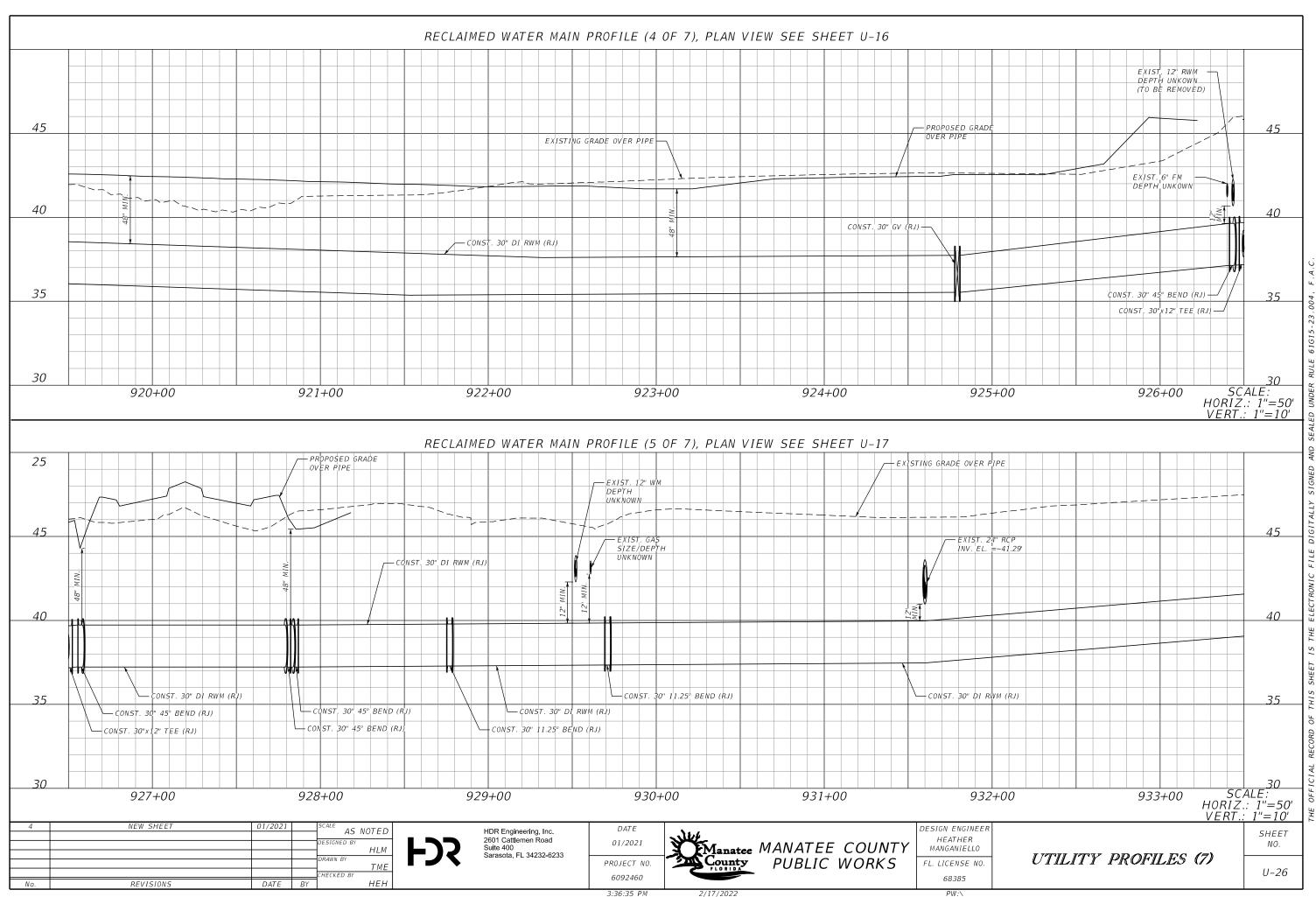


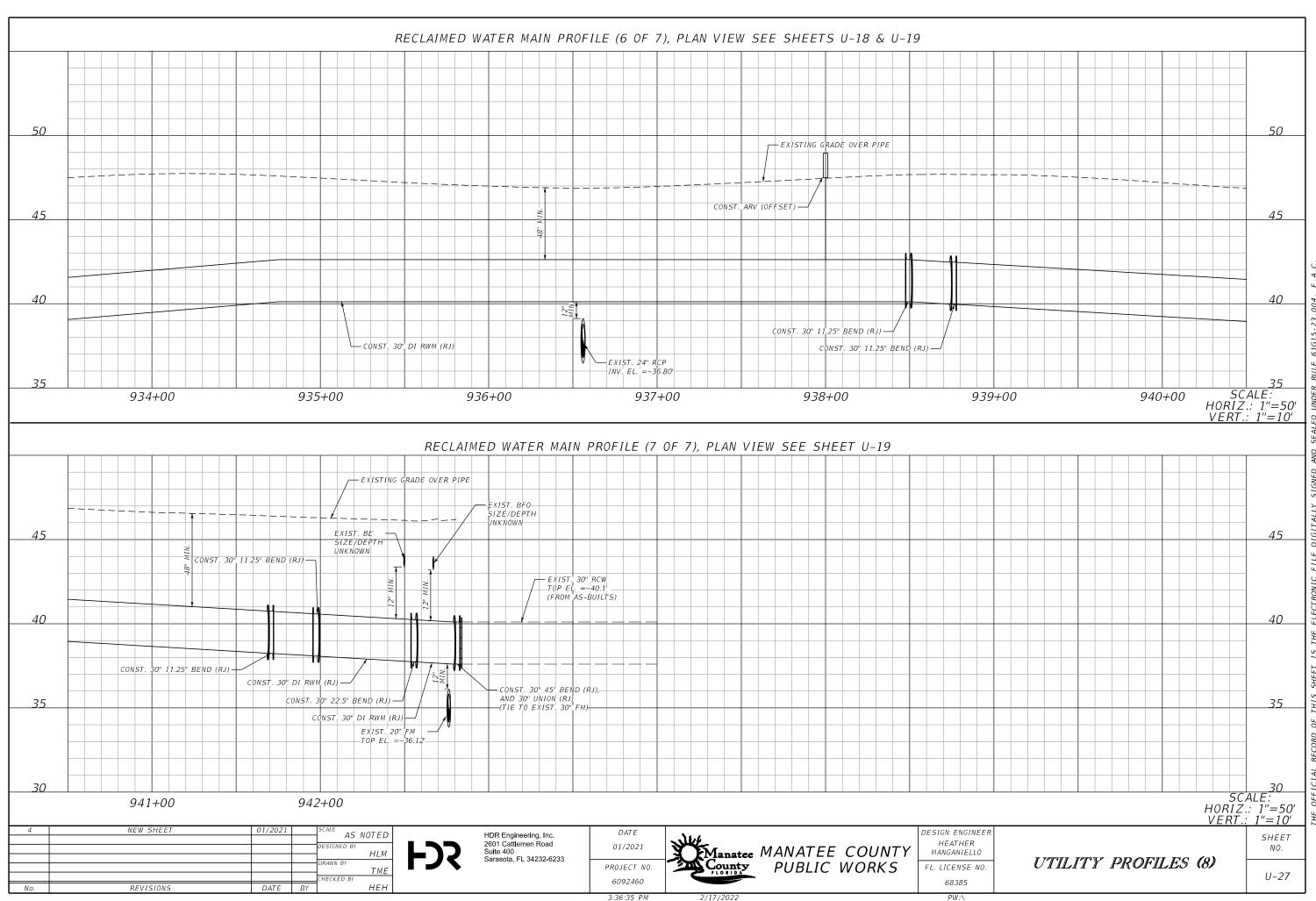


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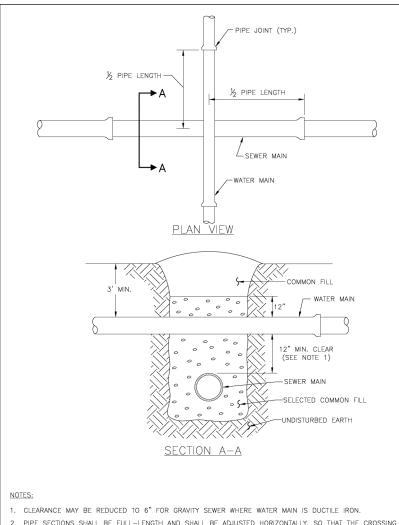




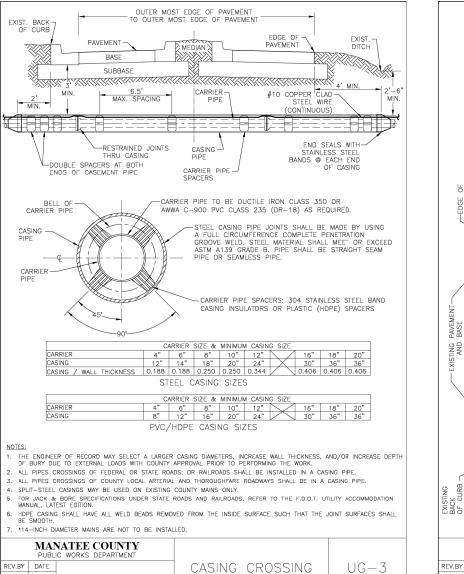


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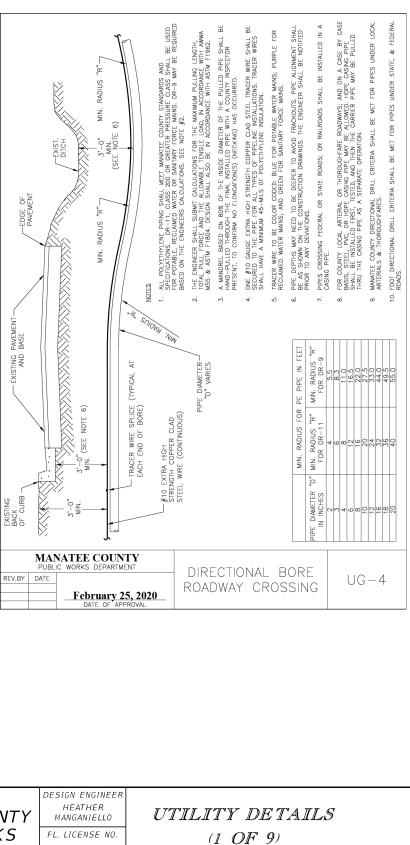


15	S AT EAG	CH PIPE SECTION'S MIDPOINT REG	ARDLESS OF THE VERTICAL CLEARANCE.	
		NATEE COUNTY	TYDICAL NEW WATED .	
REV.BY	DATE		SEWER LINE CROSSING	UG-2
		February 25, 2020		



- Jule DATE AS NOTED HDR Engineering, Inc. HEATHER MANGANIELLO 2601 Cattlemen Road Suite 400 Manatee MANATEE COUNTY County PUBLIC WORKS 02/2022 HLM Sarasota, FL 34232-6233 PROJECT NO. FL. LICENSE NO. TME 90% Submitta 02/202 JTT 6045662 68385 HEH DATE REVISIONS No. BY 3:36:40 PM 2/17/2022 PW:\

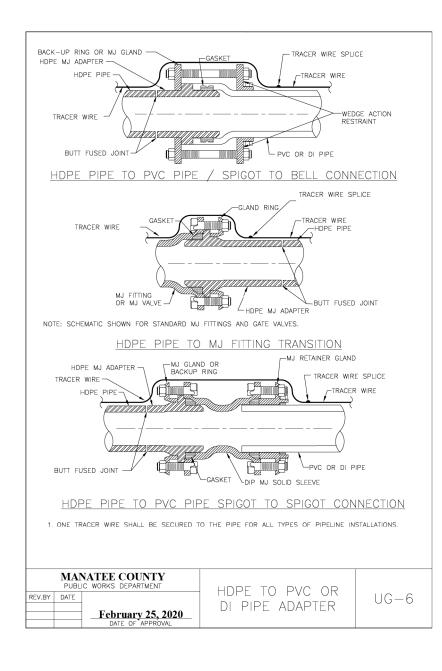
February 25, 2020

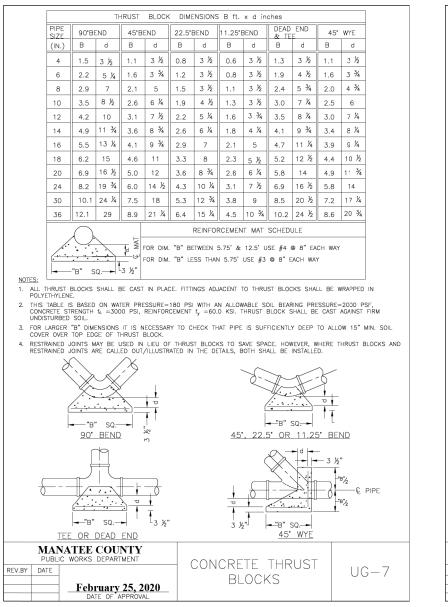


004. 61615-23. RULE UNDER SEALED AND SIGNED DIGITALLY FILE ELECTRONIC THE IS SHEET THIS ΟЕ ORD C. OFFI H

U-28

SHEET





MAIN PIPE	HOR	IZ. BE	NDS			TEES			R	EDUCER	S	PLUGS & VALVES
SIZE	90*	45*	22.5*		Ş	IZE LEN	IGTH		9	SIZE LEN	IGTH	
24	90	38	18	X24 169	X20 132	X16 90	X12 38	X10 6	X20 64	X16 117	X12 158	214
20	78	32	16	X20 141	X16 101	X12 53	X10 24	X8_1	X16 65	X12 115	X10 149	184
16	66	27	13	X16 111	X12 67	X10 41	X8 12		X12 64	X10 107	X8 111	151
12	52	22	10	X12 80	X10 56	X8 31	X6 1		X10 58	X8 62	X6 86	118
10	44	18	9	X10 63	X8 40	X6 7			X8 33	X6 61	X4 81	100
8	37	15	7	X8 49	X6 18	X4_1			X6 35	X4 60		83
6	29	12	6	X6 29	X4 1				X4 33			63
4	21	8	4	X4 12								45

#### NOTES:

- TEST PRESSURE IN EITHER DIRECTION.
- 4. PIPE SIZES ARE GIVEN IN INCHES. 5. RESTRAINED PIPE LENGTHS ARE GIVEN IN FEET.
- 6. LENGTHS SHOWN ARE FOR A TEST PRESSURE OF 180 PSI.

- FOR PIPF.
- UTILITIES STANDARDS MANUAL

# MANATEE COUN

REV.BY DATE February

				AS NOTED	HDR Engineering, Inc.	DATE	N		DESIGN ENGINEER
				DESIGNED BY	2601 Cattlemen Road Suite 400	02/2022	WHEN	MANATEE COUNT	HEATHER MANGANIELLO
				HLM DRAWN BY	Sarasota, FL 34232-6233				
	00% Submitted	02/2022	ITT	TME		PROJECT NO.	County	PUBLIC WORKS	FL. LICENSE NO.
2	90% Submittal		JII	CHECKED BY		6045662			68385
No.	REVISIONS	DATE	BÅ	HEH		3:36:49 PM	2/17/2022		PW:\

#### **REQUIRED LENGTH OF RESTRAINED JOINT PIPE** FOR C900-16 PVC PIPE (DR-18)

1. RESTRAIN 11.25' BENDS 50% OF LENGTH FOR 22.5' BENDS. 2. ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE. 3. ALL ISOLATION VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 180 PSI

 THE RESTRAINED LENGTHS SHOWN IN THESE TABLES ARE BASED ON SOIL CLASSIFICATION SP WITH AWWA TYPE 3 TRENCH CONDITIONS, 180 PSI TEST PRESSURE, 3 FEET OF COVER AND 1.5 FACTOR OF SAFETY. ACTUAL BURY CONDITIONS MUST BE DETERMINED BY THE ENGINEER OF RECORD AND THE RESTRAINED LENGTHS MODIFIED ACCORDINGLY. 8. RESTRAINED LENGTHS TO BE APPLIED TO PIPELINES PER DETAIL UG-10 RESTRAINED LENGTHS

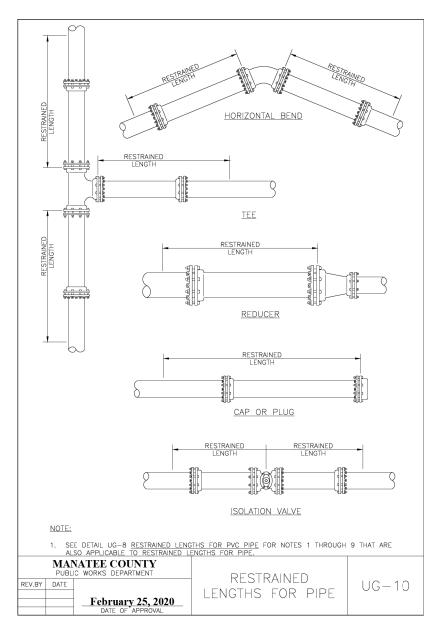
9. ALL RESTRAINED JOINT HARDWARE SHALL CONFORM TO 1.11.17 OF THE PUBLIC WORKS

10. ALL THREE "LEGS" OF TEES SHALL BE RESTRAINED PER THE STATED LENGTH IN THE TABLE.

NTY MENT	RESTRAINED	
	LENGTHS FOR PVC	UG-8
25, 2020	PIPE	

UTILITY DETAILS	SHEET NO.
(2 OF 9)	U-29

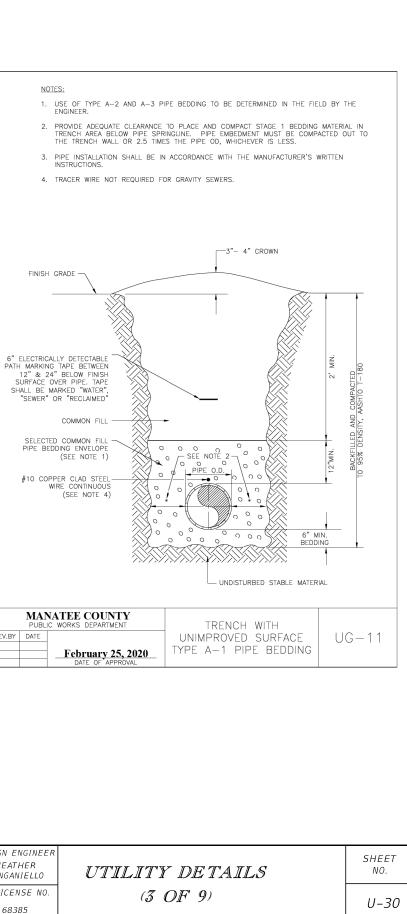
MAIN	HOR	RIZ. B	ENDS			TE	ES				REDU	CERS	PLUGS & VALVES
PIPE SIZE	90*	45*	22.5*			SIZE	LENGTH	н			SIZE	LENGTH	
36	142	59	28	×36 393	x30 318	×24 232	×20	×16	x12	X30	X24 247	X20 X16 309 35	59 453
30	124	51	25	X30 333	X24 252	X20 189	X16 115	X12 23	×10	X24 137	X20 213	X16 276	391
24	106	44	21	X24 270	X20 211	X16	X12 61	X10	V8 /	X20 98	V16 /	X12 241	327
20	92	38	18	X20 225	X16 161	X12 85	X10	×8		X16 98	X12 176	X10 227	280
16	77	32	15	X16 177	X12 107	X10 65	X8 19	×6_1		X12	X10		231
12	61	25	12	X12 127	X10 89	X8 50	×6_1			X10 88	X8 96		181
10	52	22	10	X10 101	X8 64	×6 11				X8 51	X6 94	X4 125	153
8	44	18	9	X8 78	X6 30	×4				X6 54	X4 92		128
6	34	14	7	X6 46	×4_1					X4 50	1		98
4	24	10	5	×4 19	ſ								69
	NOTE:												
	1. SI Al	EE UG	APPLIC/	estrain Ble To	) REST	NGTHS. RAINED	<u>FOR P</u> LENGTI	<u>VC PIF</u> HS FOI	P <u>e</u> deta R dip.	NIL FOR	NOTES	1 THROUGH	H 9 THAT ARE



# **REQUIRED LENGTH OF RESTRAINED JOINT PIPE**

				SCALE AS NOTE	ס	HDR Engineering, Inc.	DATE	N1.6	DESIGN ENGINEER
				DESIGNED BY HLI		2601 Cattlemen Road Suite 400	02/2022	Manatee MANATEE COUNT	Υ HEATHER MANGANIELLO
				DRAWN BY		Sarasota, FL 34232-6233	PROJECT NO.	County PUBLIC WORKS	
2	90% Submittal	02/2022	JTT	CHECKED BY	5		6045662		68385
No.	REVISIONS	DATE	BY	HE	+		0045002		00505
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REV.BY DATE





				SCALE AS N	OTED	HDR Engineering, Inc.	DATE	N. (		DESIGN ENGINEER
				DESIGNED BY		2601 Cattlemen Road	02/2022	WHERE A	AANATEE COUNTY	HEATHER
					HLM	Suite 400 Sarasota, FL 34232-6233		Manatee /	MANATEE COUNTY	MANGANIELLO
				DRAWN BY	TME		PROJECT NO.	County	PUBLIC WORKS	FL. LICENSE NO.
2	90% Submittal	02/2022	JTT	CHECKED BY			6045662	<b>HORIDA</b>		68385
No.	REVISIONS	DATE	BY		HEH		0049002			00505
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7. SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE. 8. NEW BASE SHALL MATCH EXISTING: OR BE CRUSHED CONCRETE, 8" NIN. THICKNESS, LER ±150, WHICHEVER IS ORCATER. 9. TEMPORARY PATCHESS WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SUBRACE AT ALL TIMES. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE: 10. RESTORE SIGNAGE & MARING WITH THERMOPLASTIC PER FDOT STANDARDS, LATEST EDITION. 11. TRACET WIER FOR TRAUTED FOR GRANTY SEVERS. 12. NOTES 5. THRU 10. ARE MINIMUM REQUIREMENTS FOR A TRENCH IN A LOCAL ROAD. REFER TO LATEST EDITION OF MAMATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS. 12. NOTES 5. THRU 10. ARE MINIMUM REQUIREMENTS FOR A TRENCH IN A LOCAL ROAD. REFER TO LATEST EDITION OF MALE ENST. ASPIRATE & PATCH PROR TO PLACING FINAL LAYER 24" MIN. S-H ASPIRATIC CONCRETE W/ PRIME CONT 1-1/4" MIN. S-H ASPIRATIC CONCRETE W/ PRIME CONT 25" THRU 10. ARE MINIMUM REQUIREMENTS FOR ADDITIONAL REQUIREMENTS. 14" SELECTED COMMON FILL 4" SELECTED COMMON FILL 4" SELECTED COMMON FILL 4" O O O O O O O O O O O O O O O O O O O		MILLING LIMITS THAT IMPACT INTERSECTION SHAI MANATEE COUNTY.	LL BE ADDRESSED ON A CASE BY CASE BAS	IS AND APPROVED BY
CREATER OF TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT PATCHES SUIL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT PATCHES  10. RESTORE SIGNAGE & MARKING WITH THERMOPLASTIC PER FOOT STANDARDS, LATEST EDITION.  11. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.  12. NOTES 5. THRU 10. ARE MINIMUM REQUIREMENTS FOR A TRENCH IN A LOCAL ROAD, REFER TO LATEST EDITION OF MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.  MILL ENST, ASPHALT & CORCERTE WYERME COAT  SWY CUT JOINT  MILL ENST, ASPHALT & CORCERTE WYERME COAT  SWY CUT JOINT  EXIST. BASE  INTE TIME SHEET TO LATEST EDITION OF  SWY CUT JOINT  EXIST. BASE  INTE TIME SHEET OF A TRECLAMED  INTERCOMENT PIEL PARE SHALL BE INTE TIME SHEET OF A TRECLAMED  INTERCOMENT PIEL PARE SHALL BE INTERCHALE PARH MARCHO  INTERCOMENT PIEL PARE SHALL BE INTERCHALE PARH MARCHO  INTERCHALE  INTERCHALE PARH MARCHO	7.	SHEETING ORDERED LEFT IN PLACE TO BE CUT	OFF 24" BELOW FINISHED GRADE OR 12" B	ELOW SUBGRADE.
REPLACEMENT TO BE MADE AS SOON AS POSSIBLE. 10. RESTORE SCHAGE & MARKING WITH HERMOPLASTIC PER FDOT STANDARDS, LATEST EDITION. 11. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS. 12. NOTES 5. THRU 10. ARE MINIMUM REQUIREMENTS FOR A TRENCH IN A LOCAL ROAD. REFER TO LATEST EDITION OF MANATEE COUNTY HIGHWAY AND TRAFTIC STANDARDS FOR ADDITIONAL REQUIREMENTS. MILL EXST. ASPHALT & PATCH PROR TO PLACING FINAL LAVER 3/4" MIN. S-H ASPHALTIC CONCRETE W/ PRIME COAT SWR CUT JOINT SWR CUT JOINT EXIST. BASE FOR THE STANDARDS FOR ADDITIONAL REQUIREMENTS. SWR CUT JOINT EXIST. BASE EXIST. BASE FIGURE STANDARDS TO PLACING FINAL LAVER SWR CUT JOINT EXIST. BASE FIGURE STANDARDS FOR ADDITIONAL REQUIREMENTS. SWR CUT JOINT EXIST. BASE FIGURE STANDARDS FOR ADDITIONAL REQUIREMENTS. EXIST. BASE FIGURE STANDARDS TO PLACING FINAL LAVER SWR CUT JOINT EXIST. BASE FIGURE STANDARDS STANDARDS FOR ADDITIONAL REQUIREMENTS. EXIST. BASE FIGURE STANDARDS S	8.		ISHED CONCRETE, 8" MIN. THICKNESS, LBR ≥	150, WHICHEVER IS
11. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS. 12. NOTES 5. THRU 10. ARE MINIMUM REQUIREMENTS FOR A TRENCH IN A LOCAL ROAD. REFER TO LATEST EDITION OF MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS. MILL EXIST. ASPHALT & PATCH PROR TO PLACING FINAL LATER 3/4* MIN. SII ASPHALTIC CONCRETE VYERAY 25'	9.	TEMPORARY PATCHES WILL BE INSTALLED TO PI		ALL TIMES. PERMANENT
12. NOTES 5. THRU 10. ARE MINIMUM REQUIREMENTS FOR A TRENCH IN A LOCAL ROAD. REFER TO LATEST EDITION OF MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR A DITIONAL REQUIREMENTS. MILL EXIST. ASPHALT & PATCH PROR TO PLACING FINAL LAYER 3/4 MIN. 5-III ASPHALTIC CONCRETE WYRING COAT 25'	10.	RESTORE SIGNAGE & MARKING WITH THERMOPLA	ASTIC PER FDOT STANDARDS, LATEST EDITION.	
MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS. MILL EXIST. ASPHALT & PATCH PROPE TO PLACING FINAL LAYER 3/4" MIN. S-I ASPHALTIC CONCRETE W PRAME COAT SET ONCE 50, BOTTON LAYER SAW CUT JOINT FULL BASE REPLACEMENT FULL BA	11.	TRACER WIRE NOT REQUIRED FOR GRAVITY SEW	/ERS.	
3/4* MM. S-II ASPHALTC CONCRETE VERLAY         1-1/4* MM. S-II ASPHALTC CONCRETE VERLAY         25'         1-1/4* MM. S-II ASPHALTC CONCRETE VERLAY         SAW CUT JOINT         SAW CUT JOINT         SEE NOTE 5), BOTTOM LAYER         SAW CUT JOINT         SEE NOTE 8         EXIST. BASE         EXIST. BASE         DEXIST. BASE	12.			TO LATEST EDITION OF
3/4* MM. S-II ASPHALTC CONCRETE VERLAY         1-1/4* MM. S-II ASPHALTC CONCRETE VERLAY         25'         1-1/4* MM. S-II ASPHALTC CONCRETE VERLAY         SAW CUT JOINT         SAW CUT JOINT         SEE NOTE 5), BOTTOM LAYER         SAW CUT JOINT         SEE NOTE 8         EXIST. BASE         EXIST. BASE         DEXIST. BASE				
3/4* MM. S-II ASPHALTC CONCRETE VERLAY         1-1/4* MM. S-II ASPHALTC CONCRETE VERLAY         25'         1-1/4* MM. S-II ASPHALTC CONCRETE VERLAY         SAW CUT JOINT         SAW CUT JOINT         SEE NOTE 5), BOTTOM LAYER         SAW CUT JOINT         SEE NOTE 8         EXIST. BASE         EXIST. BASE         DEXIST. BASE		MILL FXIST, ASPHA	IT & PATCH PRIOR TO PLACING FINAL LAYER	
SAW CUT JOINT       18"       FULL BASE REPLACEMENT       SW CUT JOINT         SAW CUT JOINT       18"       SEE NOTE 8       9"         SAW CUT JOINT       EXIST. BASE       9"       SAW CUT JOINT         SAW CUT JOINT       EXIST. BASE       9"       SAW CUT JOINT         SAW CUT JOINT       SEE NOTE 8       9"       SAW CUT JOINT         SAW CUT JOINT       SEE NOTE 8       9"       SAW CUT JOINT         SENT       SELECTED COMMON FILL       SEE NOTE 7       0         SURACE OVER PIPE. TAPE SHALL BE       0       0       0       0         #10 COPPER CLAD STEEL       0       0       0       0       0       0         #10 COPPER CLAD STEEL       0 <th> -</th> <td>3/4" MIN. 1–1/4" MIN. S</td> <td>S-III ASPHALTIC CONCRETE OVERLAY  I ASPHALTIC CONCRETE W/ PRIME COAT</td> <td><b>-</b></td>	-	3/4" MIN. 1–1/4" MIN. S	S-III ASPHALTIC CONCRETE OVERLAY I ASPHALTIC CONCRETE W/ PRIME COAT	<b>-</b>
SAW CUT JOINT       18"       FULL BASE REPLACEMENT       18"         SAW CUT JOINT       9"       SEE NOTE 8       9"         EXIST. BASE       0       0       0       0         SAW CUT JOINT       EXIST. BASE       0       0       0         SAW CUT JOINT       EXIST. BASE       0       0       0       0         SAW CUT JOINT       SELECTED COMMON FILL       0       0       0       0       0         6" ELECTRICALLY DETECTABLE PATH MARKING       0<	-		SEE NOTE 5), BOTTOM LAYER	
SW EUR UNIT       SUBJECT OF DECOMMON FILL       SW EUR JOINT       SW EUR JOINT       SUBJECT OF DECOMMON FILL       SW EUR JOINT       SW EUR JOINT       SW EUR JOINT       SUBJECT OF DECOMMON FILL       SW EUR JOINT		SAW CUT JOINT	FULL BASE REPLACEMENT	SAW CUT JOINT
EXIST- ASPHALT       SELECTED COMMON FILL       SELEC	1			
EXIST- ASPHALT       SELECTED COMMON FILL       SELEC	8			
EXIST     SELECTED COMMON FILL     O SEE NOTE 7       0°     SEE NOTE 7°     SELECTED COMMON FILL       0°     SEE NOTE 7°       1°     SELECTED COMMON FILL       0°     SEE NOTE 7°       1°     SELECTED COMMON FILL       0°     SEE NOTE 7°       1°     SEE NOTE 7°	.		\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0	BASE
EXIST	3			teres lever
ASPHALT SELECTED COMMON FILL ASPHALT SELECTED COMMON FILL SELECTED COMMON FILL SELECTED COMMON FILL WARKED WATER', SEWER' OR 'RECLAMED' WARKED WARKED' WARKED WARKED' WARKED' WARKED WARKED' WARKED' WARKED WARKED' W	11	~^^~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	_	>/X/X/XXXX/X/X
6° ELECTRICALLY DETECTABLE PATH MARKING TASURFACE OVER PIC. LAPE SHALL BE MARKED WATER', "SEWER' OR "RECLAIMED" #10 COPPER CLAD STEEL WRE CONTINUOUS (SEE NOTE 1) SSLEETED COMMON FILL PIPE BEDDING ENVELOPE (SEE NOTE 2) UNDISTURBED STABLE MATERIAL PUBLIC WORKS DEPARTMENT REV.BY DATE February 25, 2020 FEDDING (CROSSING) COMPANY CONTRACTOR COMPANY COMPANY CONTRACTOR COMPANY COMPANY CONTRACTOR COMPANY COMPANY CONTRACTOR COMPANY COMPANY CONTRACTOR COMPANY COMPANY COMPANY CONTRACTOR COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY	ASI	DUALT		ASPHALT
MANATEE COUNTY     TRENCH WITH ASPHALT       PUBLIC WORKS DEPARTMENT     PUBLIC WORKS DEPARTMENT       REV.BY     DATE       February 25, 2020     February 25, 2020			· · · ·	
MANATEE COUNTY     TRENCH WITH ASPHALT       PUBLIC WORKS DEPARTMENT     PUBLIC WORKS DEPARTMENT       REV.BY     DATE       February 25, 2020     February 25, 2020		SURFACE OVER PIPE, TAPE SHALL BE		T=18
MANATEE COUNTY     TRENCH WITH ASPHALT       PUBLIC WORKS DEPARTMENT     PUBLIC WORKS DEPARTMENT       REV.BY     DATE       February 25, 2020     February 25, 2020		, °		NITO NEAC
MANATEE COUNTY     TRENCH WITH ASPHALT       PUBLIC WORKS DEPARTMENT     PUBLIC WORKS DEPARTMENT       REV.BY     DATE       February 25, 2020     BEDDING (CROSSING)		#10 COPPER CLAD STEEL		ASS ASS
MANATEE COUNTY     TRENCH WITH ASPHALT       PUBLIC WORKS DEPARTMENT     PUBLIC WORKS DEPARTMENT       REV.BY     DATE       February 25, 2020     BEDDING (CROSSING)		WIRE CONTINUOUS		4SITY &
MANATEE COUNTY     TRENCH WITH ASPHALT       PUBLIC WORKS DEPARTMENT     PUBLIC WORKS DEPARTMENT       REV.BY     DATE       February 25, 2020     BEDDING (CROSSING)				DEF
INDISTURBED STABLE MATERIAL     6° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°				
MANATEE COUNTY       PUBLIC WORKS DEPARTMENT     TRENCH WITH ASPHALT       REV.BY     DATE       TYPE     A-1       February 25, 2020     BEDDING (CROSSING)		· · · · · · · · · · · · · · · · · · ·		0
MANATEE COUNTY     TRENCH WITH ASPHALT       PUBLIC WORKS DEPARTMENT     PAVEMENT SURFACE       REV.BY     DATE       TYPE     A-1       February 25, 2020     BEDDING (CROSSING)			BEDDING	
PUBLIC WORKS DEPARTMENT PAVEMENT SURFACE REV.BY DATE TYPE A-1 PIPE UG-12 February 25, 2020 BEDDING (CROSSING)				<u>v</u>
PUBLIC WORKS DEPARTMENT PAVEMENT SURFACE REV.BY DATE TYPE A-1 PIPE UG-12 February 25, 2020 BEDDING (CROSSING)		1/2/		
PUBLIC WORKS DEPARTMENT PAVEMENT SURFACE REV.BY DATE TYPE A-1 PIPE UG-12 February 25, 2020 BEDDING (CROSSING)		MANATEE COUNTY	TRENCH WITH ASPHALT	
<b>FEV.BY</b> DATE TYPE A-1 PIPE UG-12				
February 25, 2020 BEDDING (CROSSING)	RE	V.BY DATE		UG-12
	-	February 25. 2020		

BITUMINOUS PAVEMENT SHALL BE REMOVED IN CLEAN STRAIGHT LINES BY SAW CUTTING. WHERE BITUMINOUS PAVEMENT ADJOINS A TRENCH, THE EDCES ADJACENT TO THE TRENCH SHALL BE TRIMMED TO A NEAT STRAIGHT LINES BEFORE RESURFACING TO ENSURE THAT ALL AREAS TO BE RESURFACED ARE ACCESSIBLE TO ROLLERS OR TAMPERS USED TO COMPACT THE SUB-GRADE OR PAVING MATERIALS.

PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.

. ASPHALTIC CONCRETE STRUCTURE COURSE WITH PRIME COAT SHALL BE THE SAME DEPTH AND TYPE AS EXISTING OR A MINIMUM OF 1-1/4 INCH S-I, WHICHEVER IS GREATER.

MILL 25' BACK FROM TRENCH CROSSING SAW CUTS. ADJUST MILLING PER INDIVIDUAL SITE TO NOT IMPACT BASE. BUTT JOINT TO EXIST ASPHALT. FINAL OVERLAY TO MATCH EXISTING WITH NO DISCERNABLE "BUMP" AT JOINT.

USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

NOTES:

EX. SUB-BASE	·····	/
	AVEMENT -/ / / / / / / / / / / / / / / / / / /	
CONDITION 1: TRENCH AND		TRACER WIRE
BASE REPAIRS ARE LOCATED ELI ADJACENT TO EOP OR CURB.	PATH MARKING TAPE	
	SELECT COMMON FILL	
WAIER, SEWER, OR RE	CLAIM PIPE TO BE INSTALLED	<u>``</u>
	ΑΑ	<b>-</b>
SAW CUT-		-
****	-0-	
ALL EX BASE		
EX. SUB-BASE	ARTERIAN	
	/ × · · · k P	LECTRICALLY DETECTABLE
CONDITION 2: TRENCH AND EX. PAVEMENT BASE REPAIRS ARE LOCATED		TRACER WIRE
IN THE MIDDLE OF THE	W CUT	
TRAVEL LANE. SEVER, OR RECLAIM PIF		- UNDISTURBED SOIL
	ę	
-	A	
	+00  >>+-0	
EX DAVENENT SAW CUT	ET CONTRACTOR EX B	
EX. PAVEMENT - SAW CUT-		EX. SUB-BASE
CONDITION 3: TRENCH AND	TRACER WIRE WATER, SEWER,	
BASE REPAIRS ARE ALSO DETECTABLE F	ATH	TALLED
LOCATED IN THE ADJACENT MARKING T TRAVEL LANE.	APE	
	(IRIRIR)	EX. PAVEMENT UNDISTURBED SOIL
A = MILL EXIST. ASPHALT & PLACE 3/4" MIN. S-III B = 1-1/4" MIN. S-I ASPHALTIC CONCRETE W/ PRIM	E COAT	EX. BASE SELECT COMMON FILL BASE REPLACEMENT
C = FULL BASE REPLACEMENT. D = 9 INCHES	~~	S-I S-III
NOTE: 1. THIS DETAIL IS BASED ON A TWO LANE ROADWAY	AND SHALL BE FOLLOWED WHEN A PIPE IS INSTAL	LED WITHIN THE LIMITS
OF A ROADWAY AND RUNS PARALLEL WITH THE ED NEEDS OF ROADWAYS WITH ADDITIONAL LANES. CO ROADS.	GE OF PAVEMENT. THIS DETAIL CAN ALSO BE UT ONDITION 3 ONLY EXTENDS TO NEXT ADJACENT LAI	ILIZED FOR RESTORATION NE ON MULTI-LANE
2. THE MILL AND OVERLAY SHALL BE FIELD ADJUSTED CONSTRUCTION ACTIVITIES AND SHALL BE COORDIN.		IN DUE TO
<ol> <li>SEE TRENCH WITH ASPHALT PAVEMENT TYPE A-1 APPLICABLE TO ASPHALT PAVEMENT RESTORATION.</li> </ol>		O 12 THAT ARE ALSO
MANATEE COUNTY	TRENCH WITH ASPHALT	
PUBLIC WORKS DEPARTMENT	PAVEMENT SURFACE	UG-12B
	TYPE A-1 PIPE	

February 25, 2020

131 I

SAW CUT

EX. SUB-BASE

ATTE ATTACHANGE EX. BASE

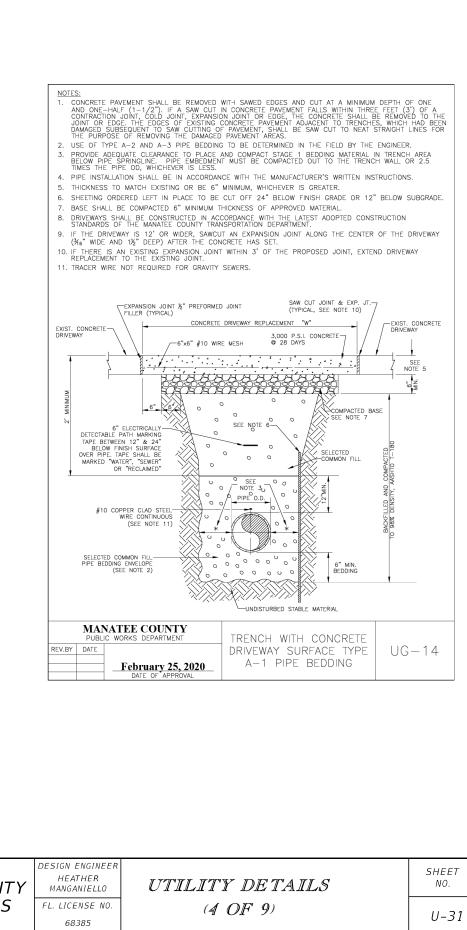
REMOVE & REPLACE EX. CURB AS REQUIRED

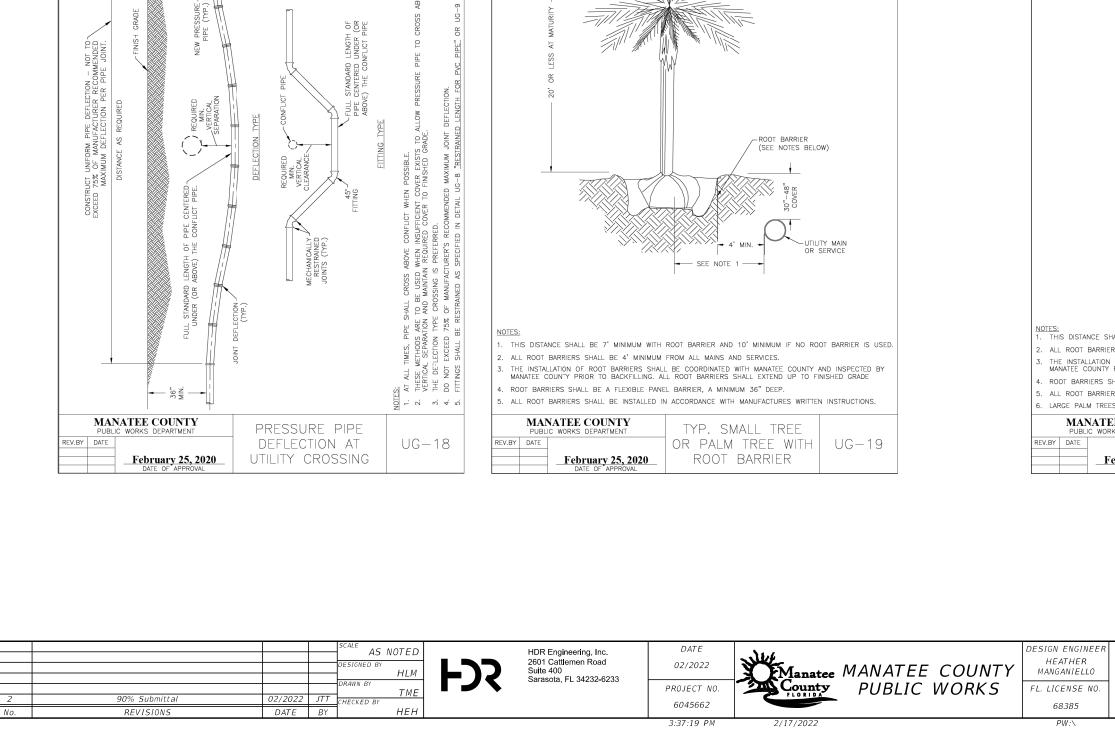
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BEDDING (LONGITUDINAL)

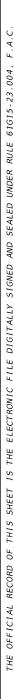
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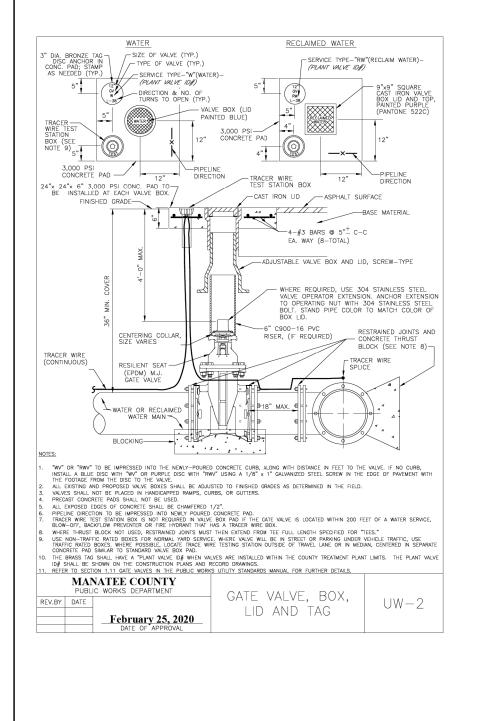


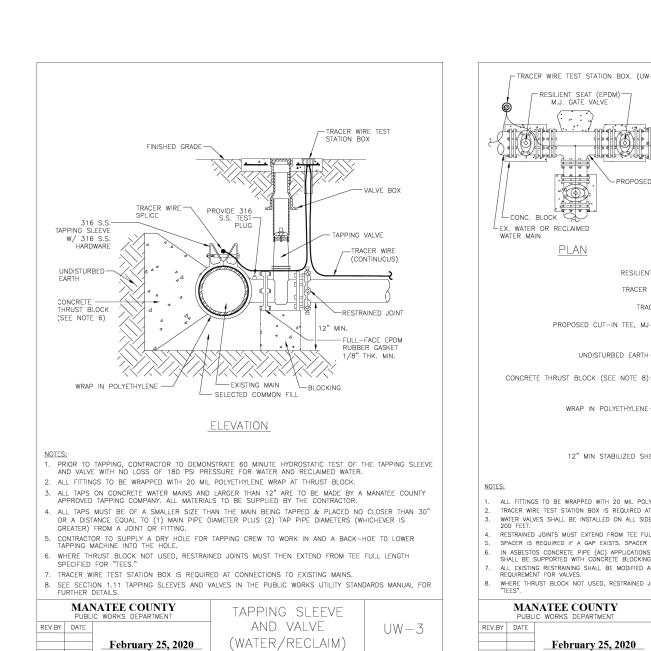


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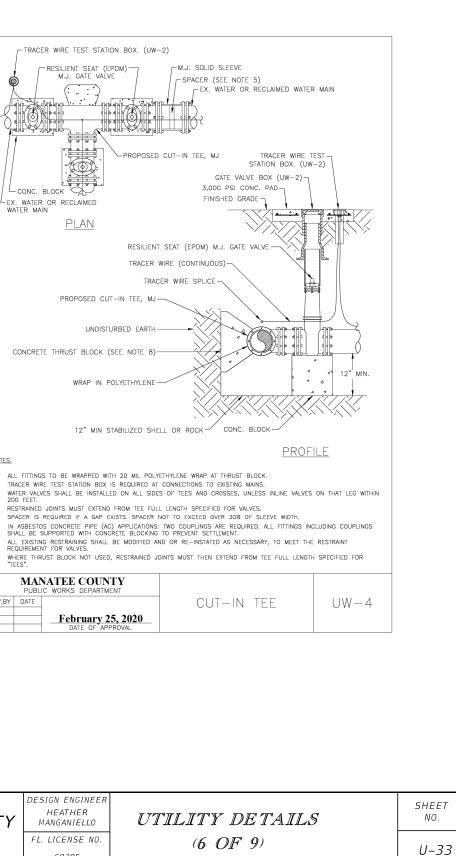
	ROOT BARRIER (SEE NOTES BELOW)	
	- SEE NOTE 1	
ERS SHALL BE 4' MINIMUM N OF ROOT BARRIERS SHAL Y PRIOR TO BACKFILLING. AI SHALL BE MINIMUM 36" DE ERS SHALL BE INSTALLED II	OR SERVICE	RRIER IS USED. PECTED BY GRADE
ERS SHALL BE 4' MINIMUM N OF ROOT BARRIERS SHAL Y PRIOR TO BACKFILLING. AI SHALL BE MINIMUM 36" DE ERS SHALL BE INSTALLED II EES INCLUDE ROYAL, WASHIN EEE COUNTY RKS DEPARTMENT	OR SERVICE OR SERVICE A ROOT BARRIER AND 15' MINIMUM IF NO ROOT BAR FROM ALL MAINS AND SERVICES. L BE COORDINATED WITH MANATEE COUNTY AND INS LL ROOT BARRIERS SHALL EXTEND UP TO FINISHED EP. FLEXIBLE BARRIERS SHALL BE 36" PANELS. N ACCORDANCE WITH MANUFACTURES WRITTEN INSTRI IGTONIAN, BISMARK AND SIMILAR SIZED SPECIES. TYP. CANOPY TREE, L ADCE DALM OD	RRIER IS USED. PECTED BY GRADE
ers shall be 4' minimum N OF ROOT BARRIERS SHAL Y PRIOR TO BACKFILLING, AI SHALL BE MINIMUM 36" DE ERS SHALL BE INSTALLED II ERS SHALL BE INSTALLED II EE COUNTY RKS DEPARTMENT February 25, 2020	ROOT BARRIER AND 15' MINIMUM IF NO ROOT BAR FROM ALL MAINS AND SERVICES. L BE COORDINATED WITH MANATEE COUNTY AND INS LL ROOT BARRIERS SHALL EXTEND UP TO FINISHED EP. FLEXIBLE BARRIERS SHALL EXTEND UP TO FINISHED ISTONIAN, BISMARK AND SIMILAR SIZED SPECIES. TYP. CANOPY TREE, LARGE PALM OR EXOTIC TREE WITH	RRIER IS USED. PECTED BY GRADE JCTIONS.
ERS SHALL BE 4' MINIMUM N OF ROOT BARRIERS SHAL Y PRIOR TO BACKFILLING, AI SHALL BE MINIMUM 36" DE ERS SHALL BE INSTALLED IN EES INCLUDE ROYAL, WASHIN EE COUNTY RKS DEPARTMENT FEDTUARY 25, 2020 DATE OF APPROVAL	ROOT BARRIER AND 15' MINIMUM IF NO ROOT BAR FROM ALL MAINS AND SERVICES. L BE COORDINATED WITH MANATEE COUNTY AND INS LL ROOT BARRIERS SHALL EXTEND UP TO FINISHED EP. FLEXIBLE BARRIERS SHALL EXTEND UP TO FINISHED ISTONIAN, BISMARK AND SIMILAR SIZED SPECIES. TYP. CANOPY TREE, LARGE PALM OR EXOTIC TREE WITH	RRIER IS USED. PECTED BY GRADE JCTIONS.



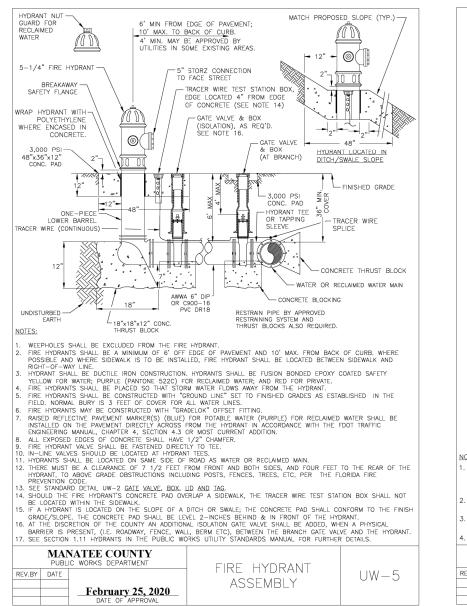


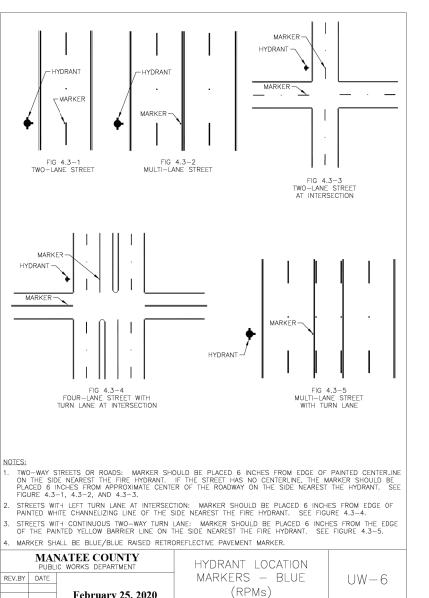


				SCALE AS NO	TED	HDR Engineering, Inc.	DATE	N. /			DESIGN ENGINEE
				DESIGNED BY		2601 Cattlemen Road	02/2022	When		COUNTY	HEATHER
					HLM	Suite 400 Sarasota, FL 34232-6233			MANATEE		MANGANIELLO
				DRAWN BY	TME		PROJECT NO.	County FLORIDA	PUBLIC	WORKS	FL. LICENSE NO.
2	90% Submittal	02/2022	JTT	CHECKED BY	THE		6045662	FLORIDA			68385
No.	REVISIONS	DATE	BY	] /	HEH						00505
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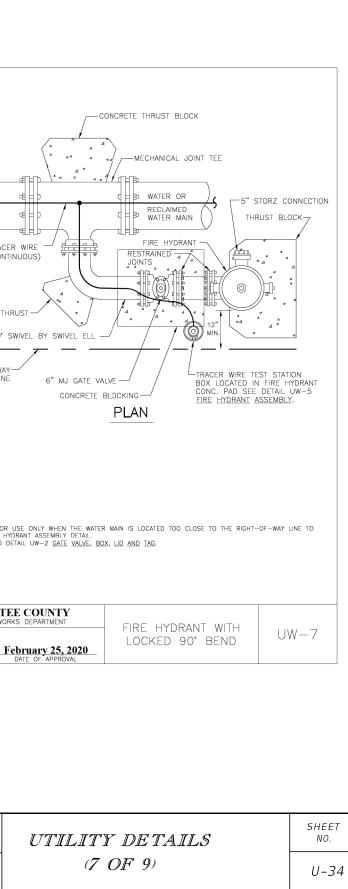


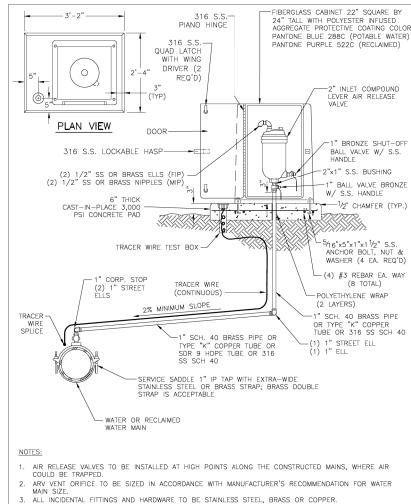


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R	CON BLO 6"- IGHT-OI	IC. TH CK -90*
<u>NOTES</u> 1. T	S: HIS DETA SE THE EE STANI	IL FOR FIRE H
2. S	MAI	



February 25, 2020

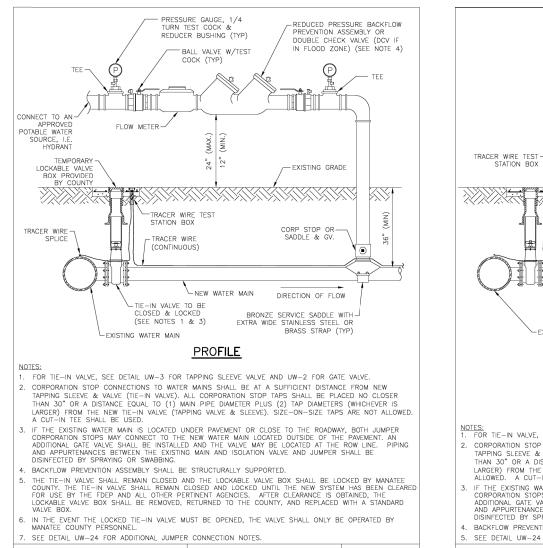






ALL INDET THREADS TO BE STALED AIR TIGHT.
 VENT PIPE TO BE LAID ACCURATELY ON SLOPE, WITHOUT HIGH OR LOW POINTS.
 ARV SHALL BE INSTALLED MINIMUM 6 FT FROM EDGE OF PAVENENT; 10 FT MAXIMUM FROM BACK OF CURB; 4 FT MIN. MAY BE APPROVED BY UTILITIES IN SOME EXISTING AREAS.

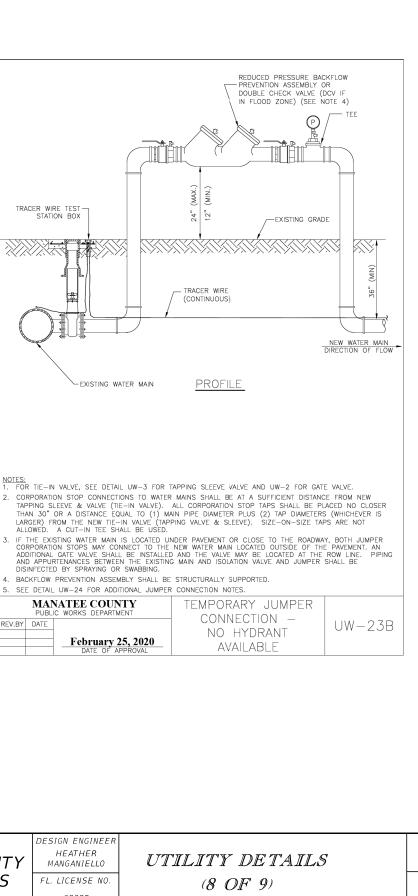
		NATEE COUNTY	ABOVE-GROUND AIR	
REV.BY	DATE		RELEASE VALVE ASSY. FOR 12-INCH AND SMALLER	UW-10
		February 25, 2020	WATER MAINS	



		NATEE COUNTY	TEMPORARY JUMPER		
REV.BY	DATE		CONNECTION-HYDRANT	UW-23A	
		February 25, 2020	AVAILABLE		
		DATE OF APPROVAL			

REV.BY DATE



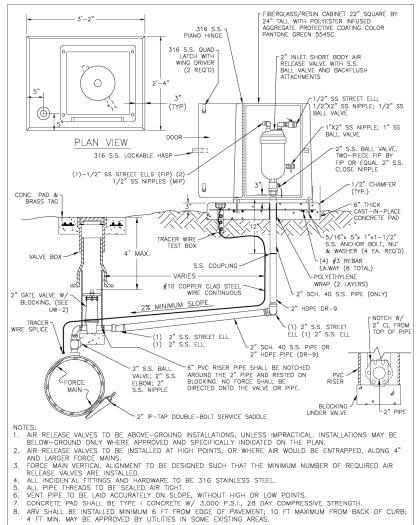


U-35

SHEET

- 1. A 2-INCH MINIMUM TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE POTABLE WATER MAINS AND PROPOSED NEW WATER MAIN IMPROVEMENTS WITH THE FOLLOWING EXCEPTIONS:
- PROJECTS THAT INCLUDE A PERMANENT BACKFLOW PREVENTER AT THE RIGHT-OF-WAY WHICH IS ADJACENT TO THE EXISTING WATER MAIN;
- b. PROJECTS THAT INCLUDE NEW WATER MAINS THAT ARE LESS THAN OR EQUAL TO 18 LINEAR FEET IN LENGTH; OR
- OTHER PROPOSED CASES THAT ARE APPROVED BY MANATEE COUNTY AND THE CONSTRUCTION DRAWINGS SPECIFICALLY STATE THAT A TEMPORARY JUMPER CONNECTION IS NOT REQUIRED.
- 2. A TEMPORARY JUMPER SHALL BE USED AND BE CONNECTED TO AN APPROVED POTABLE WATER SOURCE (E.G., EXISTING FIRE HYDRANT, EXISTING MAIN, EXISTING SERVICE TAP OR TANK TRUCK, ETC.) AS SHOWN IN THE STANDARD TEMPORARY JUMPER DETAIL UW-23A OR UW-23B.
- A TEMPORARY JUMPER SHALL BE USED FOR FILLING, FLUSHING AND FOR DISINFECTION OF ANY NEW MAIN OF ANY SIZE. THE TEMPORARY JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER THE FILLING, FLUSHING, TESTING AND DISINFECTION OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) HAS BEEN OBTAINED.
- 3. THE LOCATION AND ORIENTATION OF TEMPORARY JUMPERS ASSOCIATED WITH CONNECTIONS TO EXISTING WATER MAINS THAT ARE LOCATED UNDER THE ROADWAY PAVEMENT SHALL BE APPROVED ON A CASE-BY-CASE BASIS.
- 4. PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651, LATEST EDITION. UNLESS APPROVED OTHERWISE, THE TAPPING SLEEVE, AND EXTERIOR OF THE EXISTING MAIN TO BE TAPPED, PIPING WITHIN THE JUMPER, AND NEW PIPING SHOWN ON STANDARD TEMPORARY JUMPER DETAIL UW-23A OR UW-23B SHALL BE DISINFECTED BY SPRAYING OR SWABBING PER SECTION 4.6 OF AWWA C651.
- 5. THE JUMPER SHALL INCLUDE A FLOW METER TO ENSURE THAT THE FLOW FROM THE SUPPLY SOURCE IS AT A CONSTANT MEASURED RATE WHILE CHLORINATING THE NEW MAIN. THE CHLORINE CONCENTRATION SHALL BE MEASURED AT REGULAR INTERVALS TO ENSURE THAT IT IS FED AT A CONSTANT RATE OF NOT LESS THAN 25 MILLIGRAMS PER LITER (MG/L) OF FREE CHLORINE.
- 6. THE JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI IN THE NEW MAINS CONTINUOUSLY AFTER DISINFECTION AND UNTIL FDEP CLEARANCE LETTER IS OBTAINED.
- 7. ALL TEMPORARY BACKFLOW PREVENTION ASSEMBLY OR "JUMPERS" UTILIZED DURING PIPELINE CONSTRUCTION MUST SHOW CERTIFICATION THAT THEY HAVE BEEN TESTED ANNUALLY AND PASSED ACCORDING TO THE FLORIDA BUILDING CODE, PLUMBING SECTION, CHAPTER 3, SECTION 312.9.1, 312.9.2, CHAPTER 6, SECTION 608, AND RESOLUTION R87-125. ANNUAL CERTIFICATION MUST BE VALID AT TIME OF INSTALLATION AND PROVIDED TO THE MANATEE COUNTY INSPECTOR UPON REQUEST.
- 8. ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACKFLOW PREVENTION ASSEMBLY, FLOW METER, FITTINGS, VALVES, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 9. TEMPORARY JUMPER SIZE DEPENDS ON THE SITUATION: JUMPERS LARGER THAN 2-INCHES MAY BE USED FOR FLUSHING PURPOSES OR IF PARTIAL FIRE PROTECTION IS REQUIRED DURING INITIAL CONSTRUCTION, AS DETERMINED BY THE ENGINEER OF RECORD OR FIRE DEPARTMENT.
- 10. PRIOR TO REMOVAL OF THE TEMPORARY JUMPER, THE NEWLY-CONSTRUCTED WATER SYSTEM SHALL HAVE RECEIVED CLEARANCE FROM THE FDEP.
- 11.AFTER RECEIPT OF CLEARANCE FOR USE BY FDEP, MANATEE COUNTY, AND ALL OTHER PERTINENT AGENCIES, THE CONTRACTOR SHALL REMOVE THE TEMPORARY JUMPER CONNECTION AND COMPLETE THE WATER MAIN. ALL CORPORATION STOPS LEFT-IN-PLACE ARE TO BE CLOSED AND PLUGGED WITH 2-INCH BRASS.
- 12. IF THE TEMPORARY JUMPER IS LOCATED WITHIN A STANDARD PIPE LENGTH AWAY FROM THE PROPOSED TIE-IN AND A SINGLE STANDARD LENGTH OF PIPE IS USED FOR COMPLETING THE CONNECTION, THEN THE COUNTY WILL PERFORM A VISUAL INSPECTION AND A SEPARATE HYDROSTATIC TEST MAY NOT BE REQUIRED.
- IF MULTIPLE LENGTHS OF PIPES ARE USED TO COMPLETE THE CONNECTION, THEN A SEPARATE HYDROSTATIC TEST WILL BE REQUIRED. THE HYDROSTATIC TEST SHALL BE PERFORMED BETWEEN THE PROPOSEP TIE-IN VALVE AND THE FIRST DOWNSTREAM VALVE FROM THE TEMPORARY JUMPER LOCATION.

		NATEE COUNTY IC WORKS DEPARTMENT	TEMPORARY JUMPER	
REV.BY	DATE		CONNECTION NOTES	UW-24
		February 25, 2020		

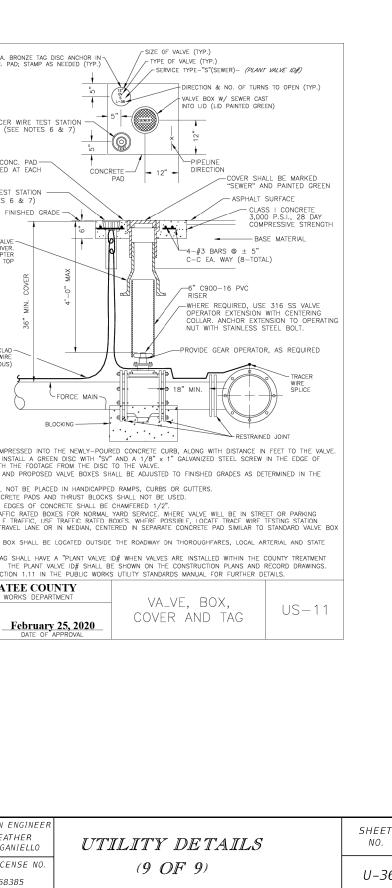


SEE UW-2 GATE VALVE, BOX, LID AND TAG STANDARD DETAIL. CENTERING COLLAR IS NOT REQUIRED ON 2" GATE VALVES.

		NATEE COUNTY	ABOVE-GROUND AIR	
REV.BY	DATE		RELEASE VALVE ASSY.	US-9
		February 25, 2020	FOR FORCE MAINS	0000
		DATE OF APPROVAL		

	3" COI	DIA. BRONZI NC. PAD; ST	E TAG DISC AMP AS NE
	TR BC	ACER WIRE DX (SEE NO	TEST ST DTES 6 &
24"x TO B VALVE	24"x 6' E INSTAI E BOX.	' CONC. PA LED AT EA	AD ACH
	R WIRE	TEST STAT TES 6 & 7 FINISHEI	ION
E T	JUSTABLE IOX AND RENCH AI CAST IRC	COVER.	
		36" MIN. COVER	
#1C	COPPER STEEL (CONTIN	UOUS)	
		6	FC
NOTES:			BLOCK
2. ALL	. EXISTIN	IMPRESSED 3, INSTALL / WITH THE FO G AND PRO	) INTO THI A GREEN I DOTAGE FF POSED VA
FIE 3. VAL 4. PRI 5. ALL 6. USI UN OU PAI	LVES SHA ECAST CO EXPOSE E NON-T DFR VFH TSIDE OF	ALL NOT BE DNCRETE PA ED EDGES ( RAFFIC RAT ICI F TRAFFI TRAVEL LA	PLACED I DS AND T DF CONCRI ED BOXES C, USF TR NE OR IN
7. TR/ RO/ 8. THE PL/	ACER WIR ADWAYS. E BRASS ANT LIMIT	TAG SHALL S. THE PL SECTION 1.1	HAVE A '
DEV DV		NATEE	
REV.BY	DATE	Febi	uary 2

				SCALE AS NOTED DESIGNED BY HLM	כרב	HDR Engineering, Inc. 2601 Cattlemen Road Suite 400	DATE 02/2022		MANATEE COUNTY	DESIGN ENGINEER HEATHER MANGANIELLO	
				DRAWN BY	<b>FJK</b>	Sarasota, FL 34232-6233	PROJECT NO.	County	PUBLIC WORKS	FL. LICENSE NO.	
2	90% Submittal	02/2022	JTT	CHECKED BY			6045662	FLORIDA		68385	
No.	REVISIONS	DATE	BY	HEH			0049002			00305	
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U-36