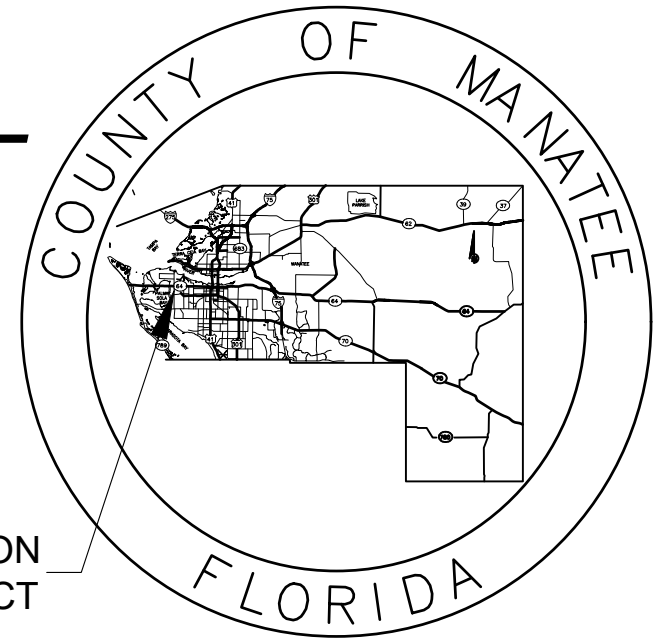


# MANATEE COUNTY PUBLIC WORKS DEPARTMENT



## INDEX OF UTILITY RELOCATION PLANS

SHEET NO.	SHEET DESCRIPTION
U-1	KEY SHEET
U-2	SIGNATURE SHEET
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U-11 - U-15	UTILITY RELOCATION PROFILE
U-16 - U-21	UTILITY RELOCATION PLAN & PROFILE
U-22	PORTOSUENO AVE UTILITY DETAIL
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U-25	STORM WATER POLLUTION PREVENTION PLAN
U-26 - U-28	STANDARD UTILITY DETAILS
SQ-1	SUMMARY OF QUANTITIES

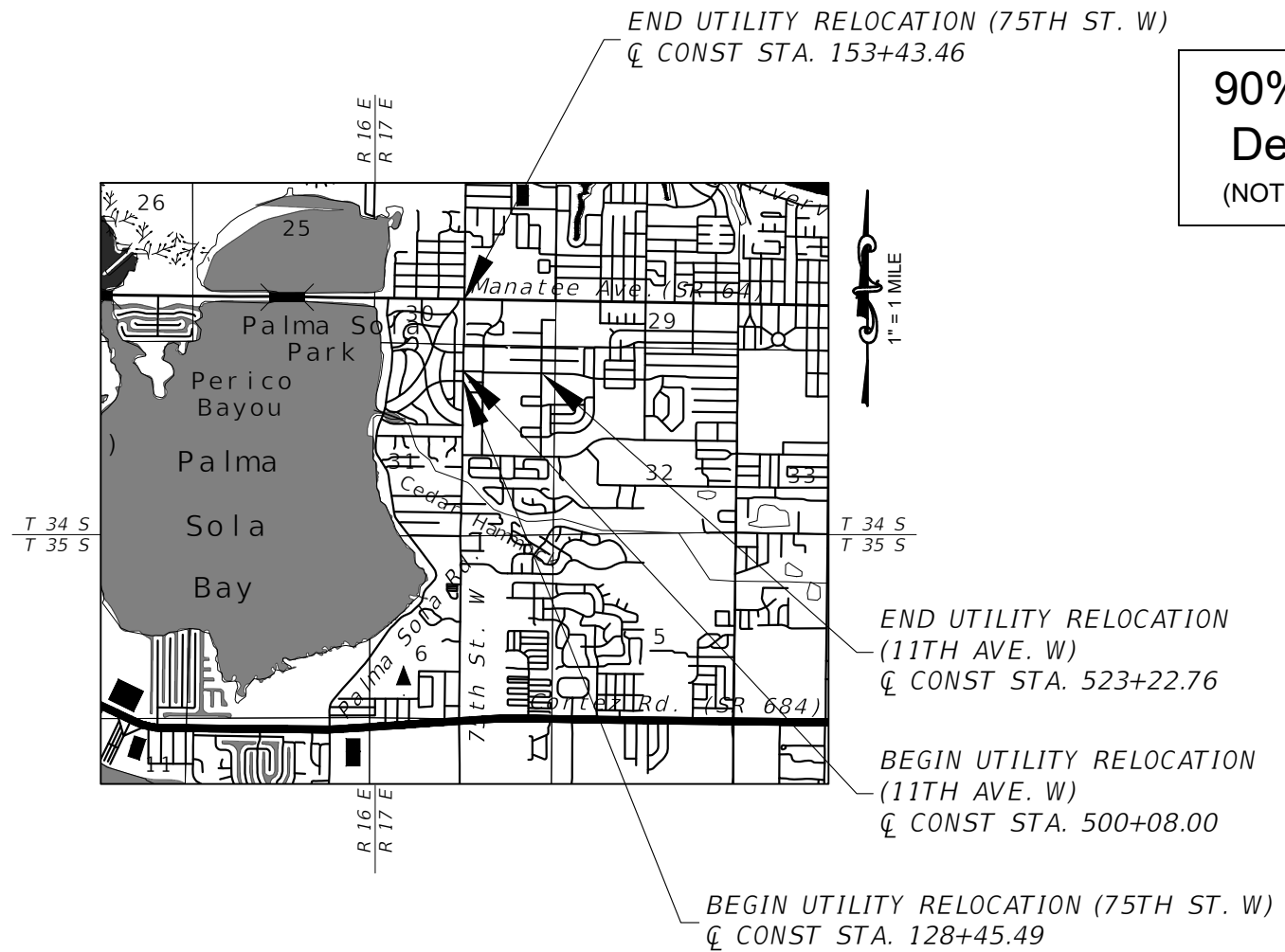
MANATEE COUNTY PROJECT No: 6002294

## 11th Ave W and 75th St W RECLAIMED WATER MAIN IMPROVEMENTS

BRADENTON, FLORIDA

LOCATION  
OF PROJECT

**90% SUBMITTAL**  
**December 2023**  
(NOT FOR CONSTRUCTION)



### GOVERNING DESIGN STANDARDS:

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

FLORIDA DEPARTMENT OF TRANSPORTATION, 2018 MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS (FLORIDA GREENBOOK) AT THE FOLLOWING WEBSITE:

[HTTPS://www.fdot.gov/roadway](https://www.fdot.gov/roadway)

MANATEE COUNTY PUBLIC WORKS HIGHWAY & TRAFFIC STANDARDS (APRIL 2022)  
MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS, SEPTEMBER 2023

### GOVERNING STANDARD SPECIFICATIONS:

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

MANATEE COUNTY, APRIL 2022 PUBLIC WORKS STANDARDS PUBLIC WORKS STANDARDS  
[http://www.mymanatee.org/departments/public\\_works/infrastructure\\_engineering](http://www.mymanatee.org/departments/public_works/infrastructure_engineering)



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

UTILITY RELOCATION PLANS  
ENGINEER OF RECORD:

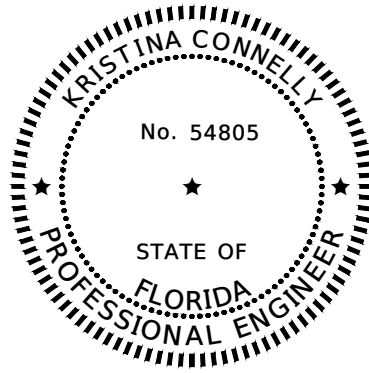
KRISTINA CONNELLY P.E. NO. 54805  
STANTEC CONSULTING SERVICES, INC.  
1412 JACKSON ST., SUITE 3  
FORT MYERS FL, 33901



Know what's below  
Call before you dig

COUNTY PROJECT MANAGER:  
VICTOR DULCEAK

FISCAL YEAR	SHEET NO.
24	U-1



THIS ITEM HAS BEEN DIGITALLY SIGNED  
AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE  
NOT CONSIDERED SIGNED AND SEALED AND  
THE SIGNATURE MUST BE VERIFIED ON ANY  
ELECTRONIC COPIES.

STANTEC, INC.  
1412 JACKSON ST., SUITE 3  
FORT MYERS FL 33901  
PHONE NO. 239-347-5508  
KRISTINA CONNELLY, P.E. 54805

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

PLAN INDEX

U-1	KEY SHEET
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U-26 - U-28	STANDARD UTILITY DETAILS
SQ-1	SUMMARY OF QUANTITIES

REVISIONS			
DATE	DESCRIPTION	DATE	BY
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KRISTINA CONNELLY, P.E.  
P.E. LICENSE NUMBER 54805  
1412 JACKSON ST., SUITE 3  
FORT MYERS, FLORIDA, 33901



MANATEE COUNTY  
PUBLIC WORKS  
COUNTY PROJECT NO:  
6002294

11TH AVE W AND 75TH ST W  
RECLAIMED WATER MAIN IMPROVEMENTS

**SIGNATURE SHEET**



SHEET  
NO.

U-2

**MANATEE COUNTY UTILITY RELOCATION NOTES:**

1. B.M. VERTICAL CONTROL FOR THIS PROJECT WAS ESTABLISHED BY A MINIMUM OF TWO REFERENCE BENCHMARKS DESCRIBED IN THE NORTH AMERICAN VERTICAL DATUM OF 1988, (NAVD 88).
2. INSTALLATION/REMOVAL/PLUGGING OF THE UTILITY PIPELINES IS TO INCLUDE RECORD PLAN INFORMATION FURNISHED TO THE ENGINEER. THE RECORD PLANS MUST IDENTIFY AND SATISFY THE MANATEE COUNTY PUBLIC WORKS AS-BUILT/RECORD DRAWING REQUIREMENTS WHICH INCLUDE VERTICAL AND HORIZONTAL ALIGNMENT, TYPE OF MATERIAL, LOCATIONS OF MATERIAL CHANGES FOR ALL WATER, RECLAIMED AND SEWER LINES, CASINGS, VALVES, TEES, BENDS, REDUCERS, HYDRANTS, CASINGS, SERVICE SIZE CONNECTIONS, GROUTING LIMITS, METER BOXES AND/OR PAD, AND OTHER PERTINENT STRUCTURES. PIPELINE RUNS IN EXCESS OF 100 FEET, WITHOUT FITTINGS ARE TO INCLUDE VERTICAL ALIGNMENT INFORMATION AT 100 FEET INTERVALS. SAID ALIGNMENT IS TO BE TIED TO STATE PLANE COORDINATES, AND IS TO BE CERTIFIED BY A PROFESSIONAL LAND SURVEYOR, LICENSED IN THE STATE OF FLORIDA. ALL POINTS (X,Y,Z) PROVIDED ARE TO INDICATE THE SIZE, ELEVATION AND TYPE AND MATERIAL (INCLUDING CLASS OR DR) OF ITEM BEING IDENTIFIED. THE CONTRACTOR IS TO CONNECT THE AS-BUILT POINTS AND ENSURE THE ACCURACY OF THE DATA PRIOR TO PROVIDING THE DATA/DRAWINGS TO THE ENGINEER. CONTRACTOR SHALL PERFORM A QUALITY CONTROL REVIEW OF ALL INFORMATION PROVIDED TO THE ENGINEER. ENGINEER WILL RETURN ALL DRAWINGS AND DATA TO THE CONTRACTOR IF ANY INACCURACIES ARE FOUND AND/OR CORRECTIONS ARE NEEDED.  
 PROVIDE GEO-REFERENCED OR STATION/OFFSET REFERENCED DIGITAL PICTURES (NO MORE THAN TWO (2) PER LOCATION) FOR ALL TIE-INS AND FITTINGS PRIOR TO BACKFILL. SUBMIT TO THE ENGINEER ALL AS-BUILT INFORMATION OF CONSTRUCTED WORK ON NO MORE THAN A BI-WEEKLY BASIS. IF DATA IS MISSING AND/OR INACCURATE, RE-EXCAVATE SUBJECT AREA TO OBTAIN REQUIRED INFORMATION AND RESTORE AREA AT NO ADDITIONAL EXPENSE TO THE MANATEE COUNTY PUBLIC WORKS. LIMITS OF RESTORATION WILL BE SUBJECT TO MANATEE COUNTY PUBLIC WORKS APPROVAL.
3. THE LOCATIONS, ELEVATIONS, & DIMENSIONS OF THE EXISTING 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/ELEVATION APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
4. RESTRAIN ALL PROPOSED RECLAIMED WATER MAIN PIPE JOINTS. RESTRAIN ALL EXISTING RECLAIMED WATER MAINS THAT ARE BEING TIED INTO BASED ON THE RESTRAINT SCHEDULE SHOWN IN THE DETAILS.
5. EXISTING ACTIVE RECLAIMED WATER MAIN SHALL REMAIN IN SERVICE UNTIL NEW LINE IS CONSTRUCTED AND ACCEPTED BY FDEP AND THE MANATEE COUNTY PUBLIC WORKS.
6. CONTRACTOR SHALL MAINTAIN RECLAIMED WATER SERVICES TO THE EXISTING RESIDENCE AND BUSINESSES AT ALL TIMES.
7. ALL VALVES, FITTINGS, BENDS, HYDRANTS, APPURTENANCES AND RECLAIMED WATERMAIN SHALL MEET MANATEE COUNTY STANDARDS,
8. ALL EXISTING VALVES WITHIN THE PAVEMENT LIMITS SHALL HAVE THE COVER AND BOX ADJUSTED FLUSH WITH FINISHED GRADE PER MANATEE COUNTY STANDARDS.
9. ALL RECLAIMED WATER SERVICE LINES TO BE PLACED OUT OF SERVICE ARE TO BE CUT AND CAPPED. THE SERVICE LINES WILL NOT BE GROUTED. CUTTING AND CAPPING THE EXISTING SERVICE LINE IS CONSIDERED INCIDENTAL TO THE NEW SERVICE AND NO SEPARATE PAYMENT WILL BE MADE.
10. CONTRACTOR TO BE ADVISED UPON REMOVAL OF EXISTING RECLAIMED WATERMAIN, TRENCH AND BEDDING WILL NEED TO BE RE-ESTABLISHED PER COUNTY DETAILS AND SPECIFICATIONS, FOR THE NEW RECLAIMED WATERMAIN, IF AFFECTED BY THE PIPE REMOVAL.
11. EXISTING RECLAIMED WATERMAIN TO BE PLACED OUT OF SERVICE AND GROUTED IN PLACE PER MANATEE COUNTY SPECIFICATIONS, UNLESS OTHERWISE NOTED..
12. THE CONTRACTOR IS TO VERIFY IN THE FIELD THE LOCATION AND ELEVATION OF ALL EXISTING UTILITY CONNECTION POINTS PRIOR TO STARTING CONSTRUCTION AND WILL IMMEDIATELY NOTIFY THE ENGINEER AND OWNER OF ANY DISCREPANCIES FOUND.
13. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THERE MAY BE SOME CONFLICTS WITH UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF ANY CONFLICTS WITH PROPOSED WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE, PROTECT, AND REPLACE (IF DAMAGED) ANY AND ALL EXISTING UTILITIES ON THIS PROJECT AT THEIR OWN EXPENSE.
14. ALL POTABLE WATER, RECLAIMED WATER, FIRE, IRRIGATION SYSTEM, SANITARY SYSTEM, STORM SYSTEM AND OTHER UTILITIES COMPONENTS ARE TO BE PROTECTED AND WILL HAVE MINIMUM DISRUPTION DURING CONSTRUCTION. THE CONTRACTOR WILL IMMEDIATELY REPAIR ANY DAMAGE TO THE SYSTEMS.
15. DISRUPTIONS TO EXISTING RESIDENTIAL/COMMERCIAL WATER AND SEWER SERVICE WILL BE KEPT TO A MINIMUM. ALL WATER SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH MANATEE COUNTY PUBLIC WORKS PROJECT MANAGER AND CITY OF BRADENTON, AND IN ACCORDANCE WITH ANY PROCEDURES FOR SHUT DOWNS.
16. AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 OR THE NATIONAL 811 ONE CALL NUMBER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHT OF WAY.
17. SEPARATE PAYMENT SHALL BE MADE ONLY FOR THE ITEMS OF WORK LISTED AND IDENTIFIED BY APPROPRIATE PAY ITEM ON THE BID FORM. THE COST OF ANY RELATED WORK NOT SPECIFICALLY IDENTIFIED, BUT WHICH IS REQUIRED FOR SATISFACTORY COMPLETION OF THE WORK, SHALL BE CONSIDERED TO BE INCLUDED IN THE CONTRACT PRICE FOR THE APPROPRIATE BID ITEM.
18. ALL MANATEE COUNTY UTILITY WORK SHALL CONFORM TO PUBLIC WORKS STANDARDS PART 1 UTILITIES STANDARDS MANUAL DATED 2023, AND APPROVED PRODUCTS LIST.
19. ALL WATER, RECLAIMED WATER AND SEWER VALVES, MANHOLES AND VALVE PADS SHOULD REMAIN VISIBLE AND ACCESSIBLE THROUGHOUT CONSTRUCTION AND BE BROUGHT TO FINAL GRADE PER COUNTY STANDARDS AT END OF CONSTRUCTION.
20. ANY HYDRANTS, SERVICES AND VALVES THAT ARE IN CONFLICT WILL BE REPLACED AND UP TO CURRENT COUNTY STANDARDS.
21. IF SERVICES OR HYDRANTS ARE HIT/DAMAGED, THEY WILL BE REPLACED TO THE CURRENT COUNTY STANDARDS.
22. PIPE LENGTHS ARE APPROXIMATE ONLY. INSTALLATION AND REMOVAL OF UTILITY PIPES ARE MEASURED IN LINEAR FEET TO THE NEAREST FOOT ALONG THE CENTERLINE. NO DISTINCTION IS MADE ON VERTICAL DEFLECTIONS. ALL MEASUREMENTS STATED ON THE PLAN VIEWS ARE HORIZONTAL LINEAR FEET.

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

DATE	DESCRIPTION	DATE	BY	 <p><b>Stantec</b> STANTEC CONSULTING SERVICES, INC.</p>	<p>KRISTINA CONNELLY, P.E. P.E. LICENSE NUMBER 54805 1412 JACKSON ST., SUITE 3 FORT MYERS, FLORIDA, 33901</p>	 <p><b>MANATEE COUNTY PUBLIC WORKS</b> COUNTY PROJECT NO: 6002294</p>	<p>11TH AVE W AND 75TH ST W RECLAIMED WATER MAIN IMPROVEMENTS</p>	SHEET NO.
----	----						<p><b>UTILITY RELOCATION NOTES</b></p>	U-3

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL		
			U-6		U-7		U-8		U-9		U-10		U-16		U-17		PLAN	FINAL	PLAN	FINAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL							
1010-012	12" CUT IN CONNECTION	EA												1					1		
1050-16005	UTILITY PIPE, GROUT & PLACE OUT OF SERVICE, 10"	LF	394		578		558		560		240		552		571				3453		
1050-16006	UTILITY PIPE, REMOVE, 10"	LF									233								233		
1050-31210	10" PVC DR18 CLASS 235	LF	3																3		
1050-31212	12" PVC DR18 CLASS 235	LF	358		490		560		560		479		567		523				3537		
1050-51212	12" DIP CL350	LF			70										50				120		
1050-61120	20" STEEL CASING	LF											84						84		
1055-51110	UTILITY FITTINGS, 10" 45° MJ BEND RJ	EA	1																1		
1055-51112	UTILITY FITTINGS, 12" 11.25° MJ BEND RJ	EA													1				1		
1055-51112	UTILITY FITTINGS, 12" 45° MJ BEND RJ	EA	1		4						6		8		4				23		
1055-51212	UTILITY FITTINGS, 12"x6" MJ TEE RJ	EA			1														1		
1055-51212	UTILITY FITTINGS, 12"x8" MJ TEE RJ	EA	1																1		
1055-51212	UTILITY FITTINGS, 12"x12" MJ TEE RJ	EA	1																1		
1055-51230	UTILITY FITTINGS, 10"x12" MJ CROSS RJ	EA																			
1055-54310	UTILITY FITTINGS, 12"x10" MJ REDUCER RJ	EA	1																1		
1055-54320	UTILITY FITTINGS, 20"x12" MJ REDUCER RJ	EA																			
1080-24106	UTILITY FIXTURE 6" GV W/ BOX, PAD, ID & TRACER	EA			1														1		
1080-24108	UTILITY FIXTURE 8" GV W/ BOX, PAD, ID & TRACER	EA	1																1		
1080-24112	UTILITY FIXTURE 12" GV W/ BOX, PAD, ID & TRACER	EA	3		1				1		2		1		1				9		
1080-26110	UTILITY FIXTURE ARV	EA											1		1				2		
1080-21106	6" STUB OUT	EA											1						1		
1080-21108	8" STUB OUT	EA	1																1		
1080-31101	SINGLE 1" SERVICE SHORT	EA			1						1		2		1				5		
1080-31101	DBL 1" SERVICE SHORT	EA	2		2		4		3				2		2				15		
1080-31101	DBL 1" SERVICE LONG	EA	1																1		
1080-31102	2" SERVICE	EA			1		1												2		
1644900	FIRE HYDRANT REMOVE	EA											1						1		
1644113	FIRE HYDRANT ASSEMBLY, COMPLETE	AS	1		1				1		1		1						5		

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DATE	DESCRIPTION	DATE	BY
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KRISTINA CONNELLY, P.E.  
P.E. LICENSE NUMBER 54805  
1412 JACKSON ST., SUITE 3  
FORT MYERS, FLORIDA, 33901



MANATEE COUNTY  
PUBLIC WORKS  
COUNTY PROJECT NO:  
6002294

11TH AVE W AND 75TH ST W  
RECLAIMED WATER MAIN IMPROVEMENTS  
**UTILITY TABULATION OF  
QUANTITIES**

SHEET NO.  
U-4

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			U-18		U-19		U-20		U-21											
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
1010-012	12" CUT IN CONNECTION	EA																	1	
1050-16005	UTILITY PIPE, GROUT & PLACE OUT OF SERVICE, 10"	LF	575		611													1186	4639	
1050-16006	UTILITY PIPE, REMOVE, 10"	LF							10									10	243	
1050-31210	10" PVC DR18 CLASS 235	LF							10									10	13	
1050-31212	12" PVC DR18 CLASS 235	LF	575		584													1159	4696	
1050-51212	12" DIP CL350	LF						28										28	148	
1050-61120	20" STEEL CASING	LF																	84	
1055-51110	UTILITY FITTINGS, 10" 45° MJ BEND RJ	EA							4									4	5	
1055-51120	UTILITY FITTINGS, 12" 11.25° MJ BEND RJ	EA																	1	
1055-51120	UTILITY FITTINGS, 12" 45° MJ BEND RJ	EA	4		9		2											15	38	
1055-51212	UTILITY FITTINGS, 12"x6" MJ TEE RJ	EA																	1	
1055-51212	UTILITY FITTINGS, 12"x8" MJ TEE RJ	EA																	1	
1055-51212	UTILITY FITTINGS, 12"x12" MJ TEE RJ	EA																	1	
1055-51230	UTILITY FITTINGS, 10"x12" MJ CROSS RJ	EA							1									1	1	
1055-54310	UTILITY FITTINGS, 12"x10" MJ REDUCER RJ	EA																	1	
1055-54320	UTILITY FITTINGS, 20"x12" MJ REDUCER RJ	EA						1										1	1	
1080-24106	UTILITY FIXTURE 6" GV W/ BOX, PAD, ID & TRACER	EA																	1	
1080-24108	UTILITY FIXTURE 8" GV W/ BOX, PAD, ID & TRACER	EA																	1	
1080-24112	UTILITY FIXTURE 12" GV W/ BOX, PAD, ID & TRACER	EA	1				1											2	11	
1080-26110	UTILITY FIXTURE ARV	EA	1		1				1									3	5	
1080-21106	6" STUB OUT	EA			1													1	2	
1080-21108	8" STUB OUT	EA																	1	
1080-31101	SINGLE 1" SERVICE SHORT	EA	2		2		1											5	10	
1080-31101	DBL 1" SERVICE SHORT	EA	2		2													4	19	
1080-31101	DBL 1" SERVICE LONG	EA																	1	
1080-31102	2" SERVICE	EA																	2	
1644900	FIRE HYDRANT REMOVE	EA																	1	
1644113	FIRE HYDRANT ASSEMBLY, COMPLETE	AS																	5	

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KRISTINA CONNELLY, P.E.  
P.E. LICENSE NUMBER 54805  
1412 JACKSON ST., SUITE 3  
FORT MYERS, FLORIDA, 33901



MANATEE COUNTY  
PUBLIC WORKS  
COUNTY PROJECT NO:  
6002294

11TH AVE W AND 75TH ST W  
RECLAIMED WATER MAIN IMPROVEMENTS  
**UTILITY TABULATION OF  
QUANTITIES**

SHEET NO.  
U-5

BEGIN UTILITY RELOCATION (75TH ST. W)  
STA. 128+45.49



SEE PORTOSUENO AVE. UTILITY DETAIL  
FOR PIPE SIZES, FITTINGS, FIXTURES,  
CONNECTIONS AND QUANTITIES

394 LF OF EXIST. 10" RCW TO BE GROUTED AND  
PLACED OUT OF SERVICE

STA. 130+89.92, -46.25 Lt.  
DBL 1" RCW SERVICE SHORT

STA. 129+30.23, -46.25 Lt.  
DBL 1" RCW SERVICE SHORT

STA. 130+85.27, -41.95 Lt.  
12"x12" MJ TEE RJ  
W/ 2-12" GV, BOX, PAD & ID

N/F PID: 3894600000  
OWNER: PATRICK DOUGLAS  
1015 CASABELLA DR  
ORB 1584 PG 579

N/F PID: 3895400004  
OWNER: WARREN, CONNIE E  
1203 CASABELLA DR  
ORB 2568 PG 674

N/F PID: 38921100259  
OWNER: PORTAL WOOD  
2902 PORTOSUENO AVE  
ORI 202041019803

N/F PID: 3895000002  
OWNER: MARTENS, JOHN T  
1021 CASABELLA DR  
ORB 1392 PG 1562

N/F PID: 3894900004  
OWNER: WARREN, PHILIP F  
1019 CASABELLA DR

PORTOSUENO AVE

TH#8

TH#9

TH#10

S-147

75TH ST. W

EXIST. RCW VALVE  
TO BE REMOVED

S-149

STA. 129+47.74, 41.21 Rt.  
DBL 1" RCW SERVICE LONG

SEE PLAN AND PROFILE SHEETS  
FOR 11TH AVE W INFORMATION

MATCHLINE STA - 132+00.00

REVISIONS		DATE	BY
DATE	DESCRIPTION	DATE	BY
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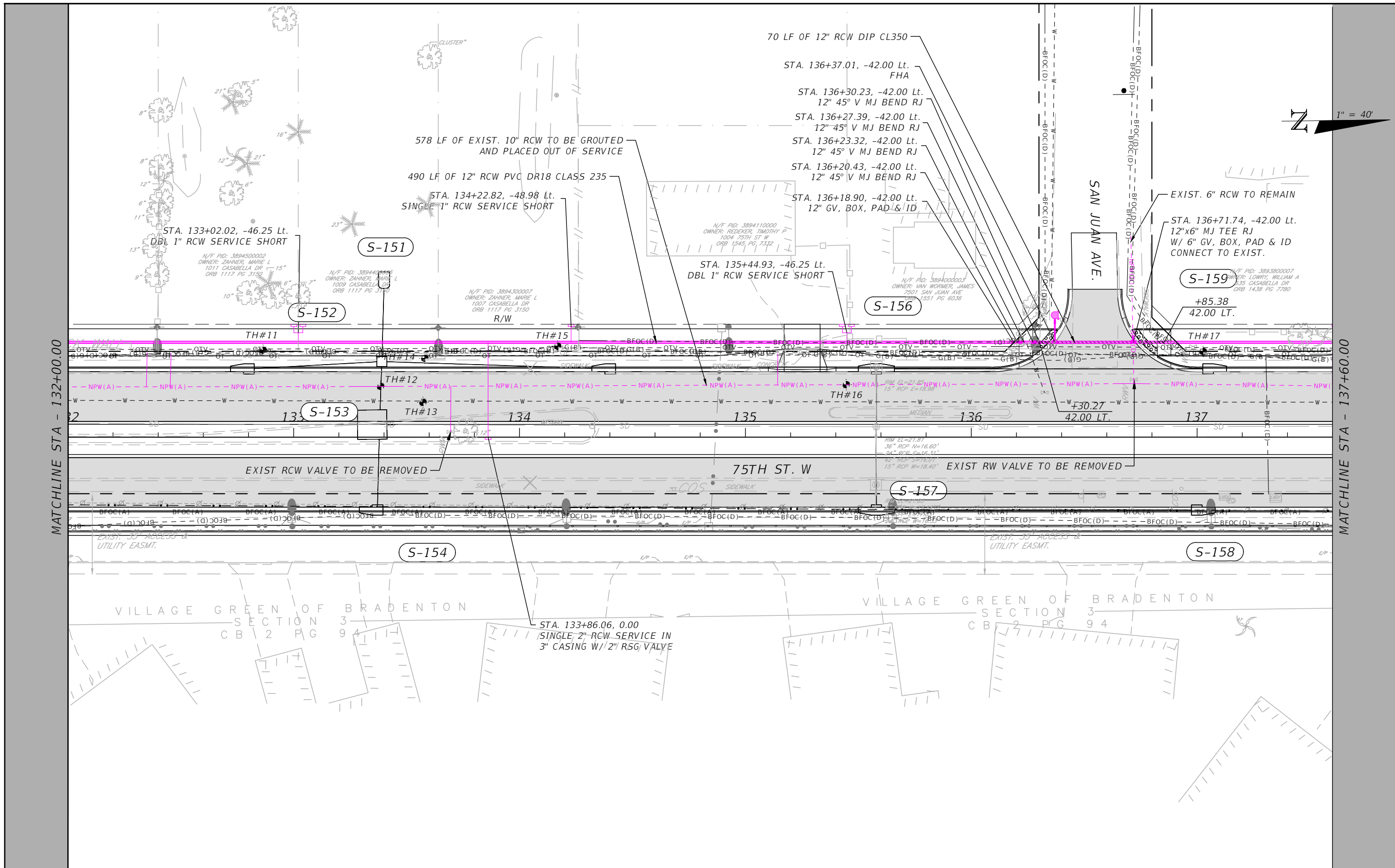
KRISTINA CONNELLY, P.E.  
P.E. LICENSE NUMBER 54805  
1412 JACKSON ST., SUITE 3  
FORT MYERS, FLORIDA, 33901



MANATEE COUNTY  
PUBLIC WORKS  
COUNTY PROJECT NO:  
6002294

11TH AVE W AND 75TH ST W  
RECLAIMED WATER MAIN IMPROVEMENTS  
**UTILITY RELOCATION PLAN**

SHEET  
NO.  
U-6



MATCHLINE STA - 132+00.00

MATCHLINE STA - 137+60.00

REVISIONS			
DATE	DESCRIPTION	DATE	BY

**Stantec**  
STANTEC CONSULTING SERVICES, INC.

KRISTINA CONNELLY, P.E.  
P.E. LICENSE NUMBER 54805  
1412 JACKSON ST., SUITE 3  
FORT MYERS, FLORIDA, 33901

**MANATEE COUNTY**  
**PUBLIC WORKS**  
COUNTY PROJECT NO:  
6002294

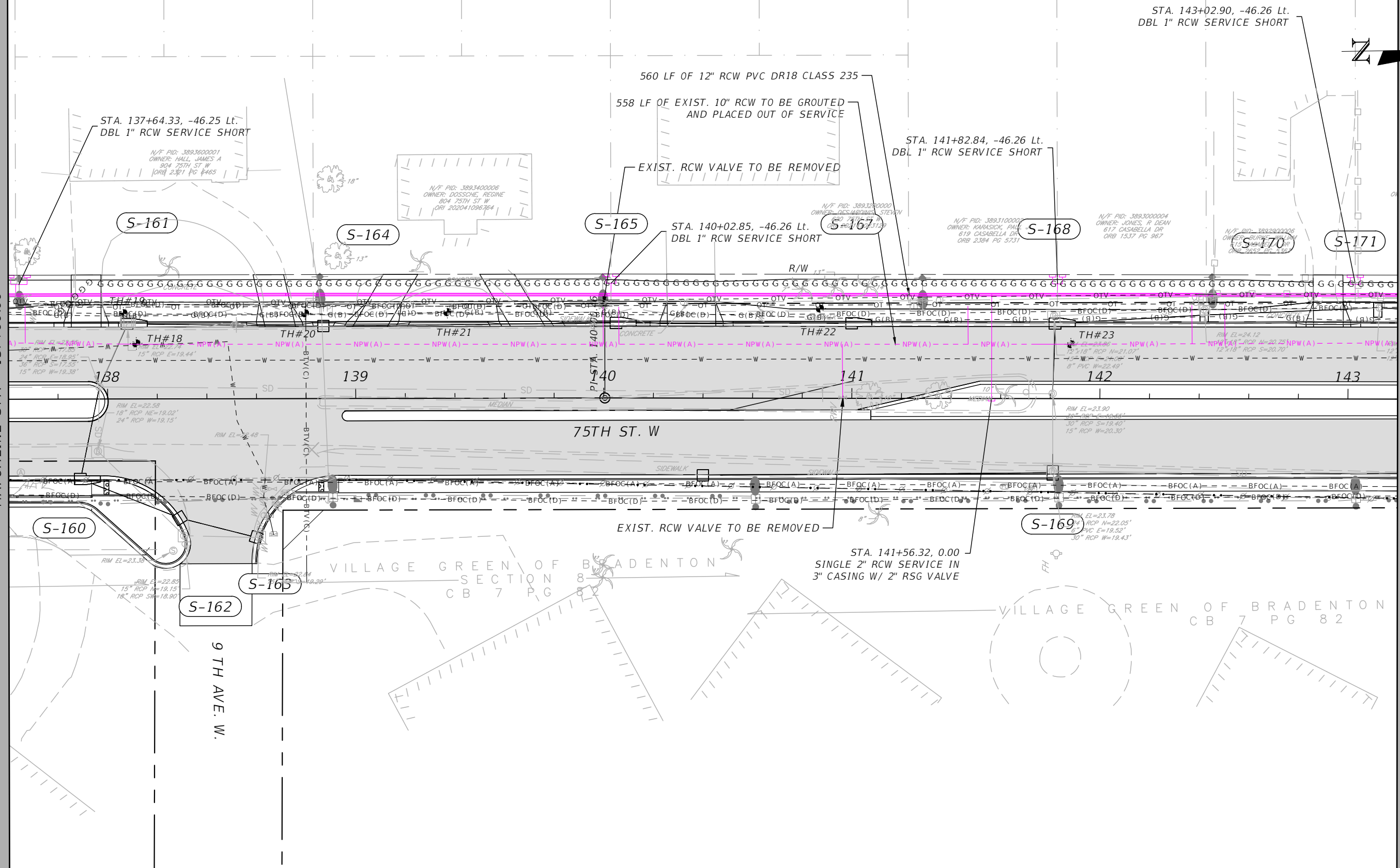
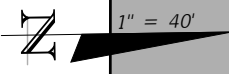
11TH AVE W AND 75TH ST W  
RECLAIMED WATER MAIN IMPROVEMENTS  
**UTILITY RELOCATION PLAN**

SHEET NO.  
U-7

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

MATCHLINE STA - 137+60.00

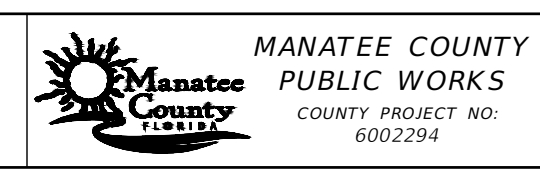
MATCHLINE STA - 143+20.00



REVISIONS		DATE	BY
DATE	DESCRIPTION	DATE	BY
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KRISTINA CONNELLY, P.E.  
 P.E. LICENSE NUMBER 54805  
 1412 JACKSON ST., SUITE 3  
 FORT MYERS, FLORIDA, 33901

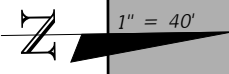


11TH AVE W AND 75TH ST W  
 RECLAIMED WATER MAIN IMPROVEMENTS  
**UTILITY RELOCATION PLAN**

SHEET NO.  
 U-8

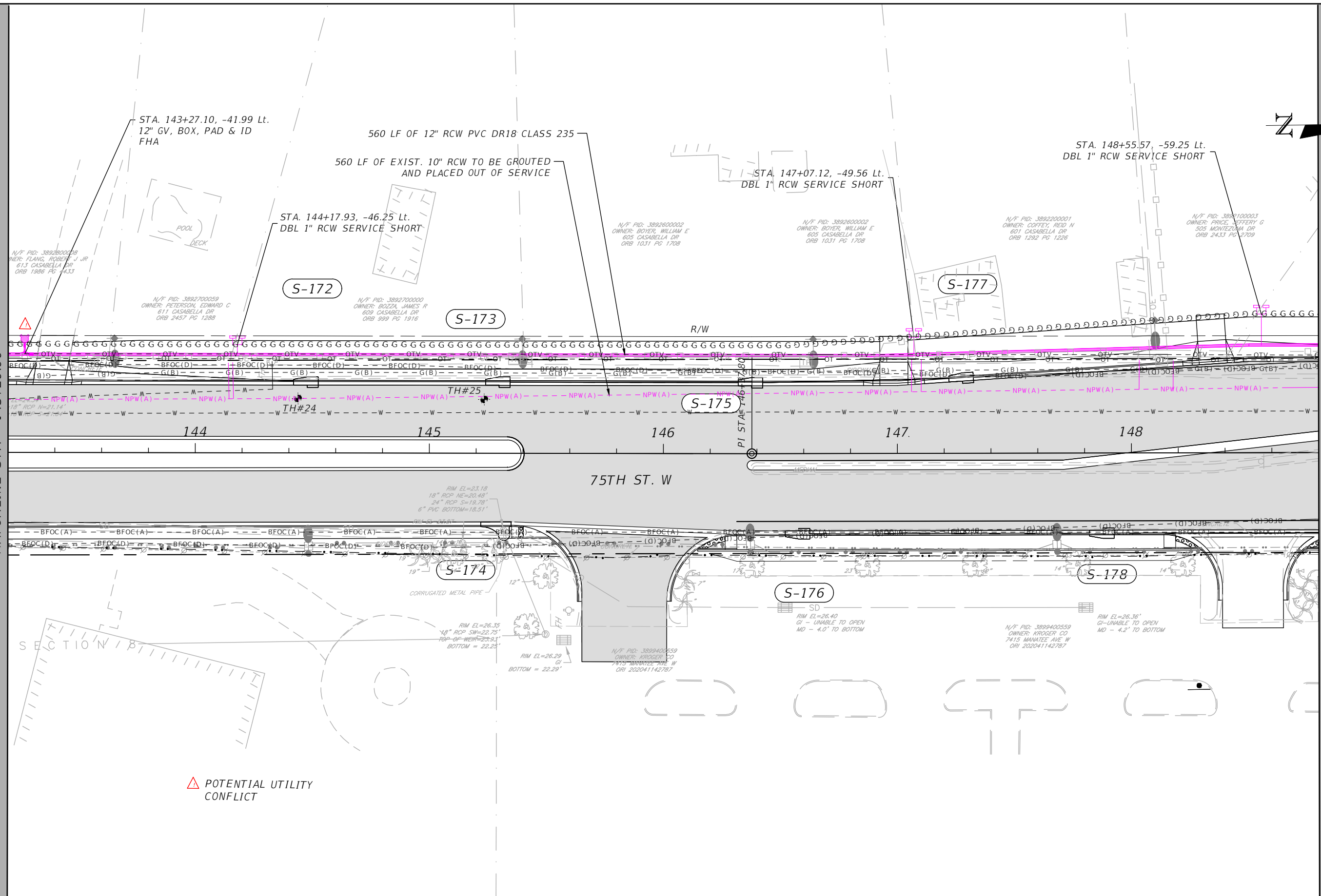
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MATCHLINE STA - 143+20.00

MATCHLINE STA - 148+80.00



REVISIONS			
DATE	DESCRIPTION	DATE	BY
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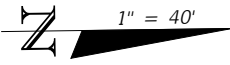
KRISTINA CONNELLY, P.E.  
 P.E. LICENSE NUMBER 54805  
 1412 JACKSON ST., SUITE 3  
 FORT MYERS, FLORIDA, 33901



11TH AVE W AND 75TH ST W  
 RECLAIMED WATER MAIN IMPROVEMENTS  
**UTILITY RELOCATION PLAN**

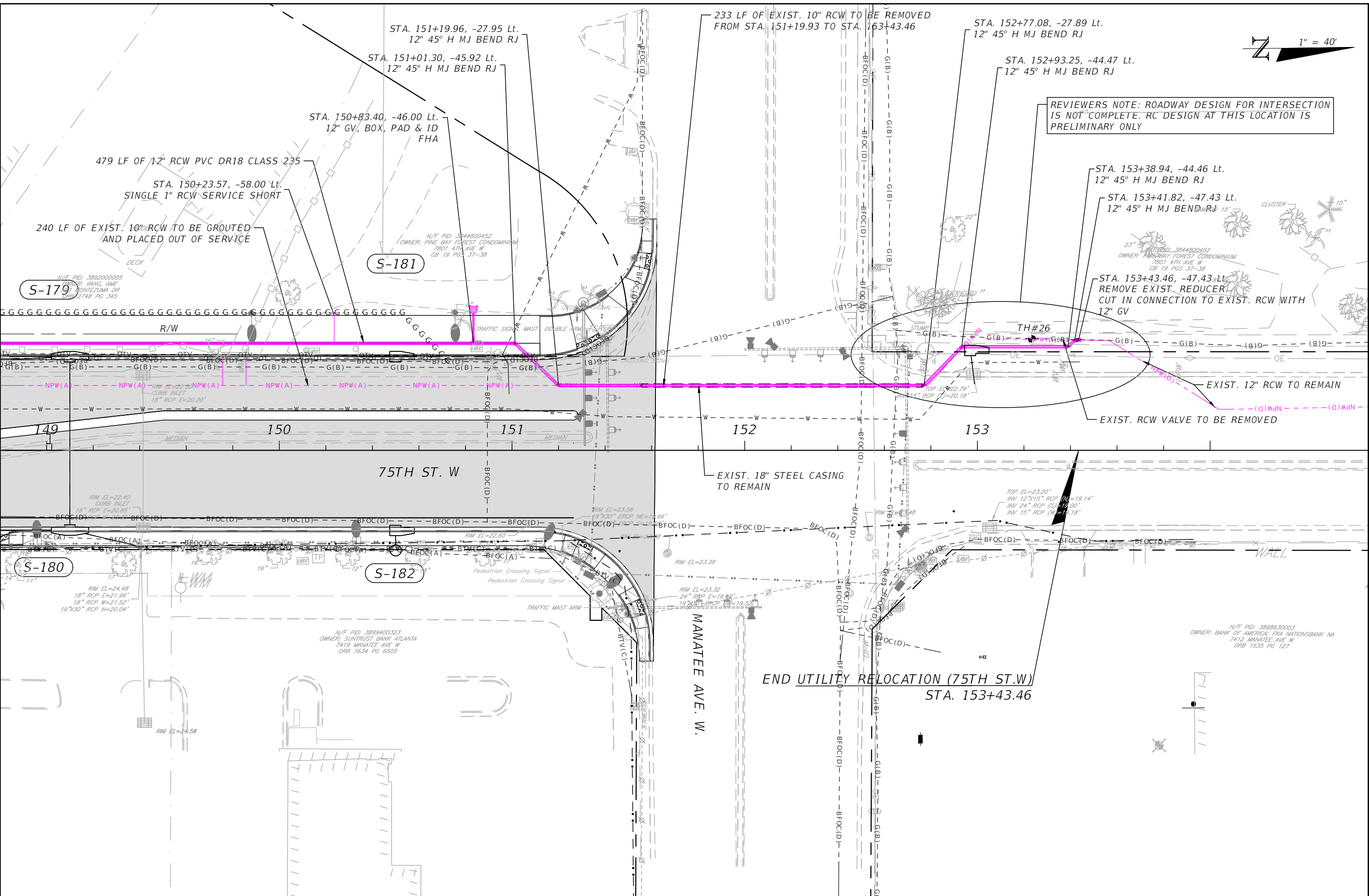
SHEET NO.  
 U-9

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



REVIEWERS NOTE: ROADWAY DESIGN FOR INTERSECTION IS NOT COMPLETE. RC DESIGN AT THIS LOCATION IS PRELIMINARY ONLY

MATCHLINE STA - 148+80.00



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REVISIONS		DATE	BY
DATE	DESCRIPTION	DATE	BY
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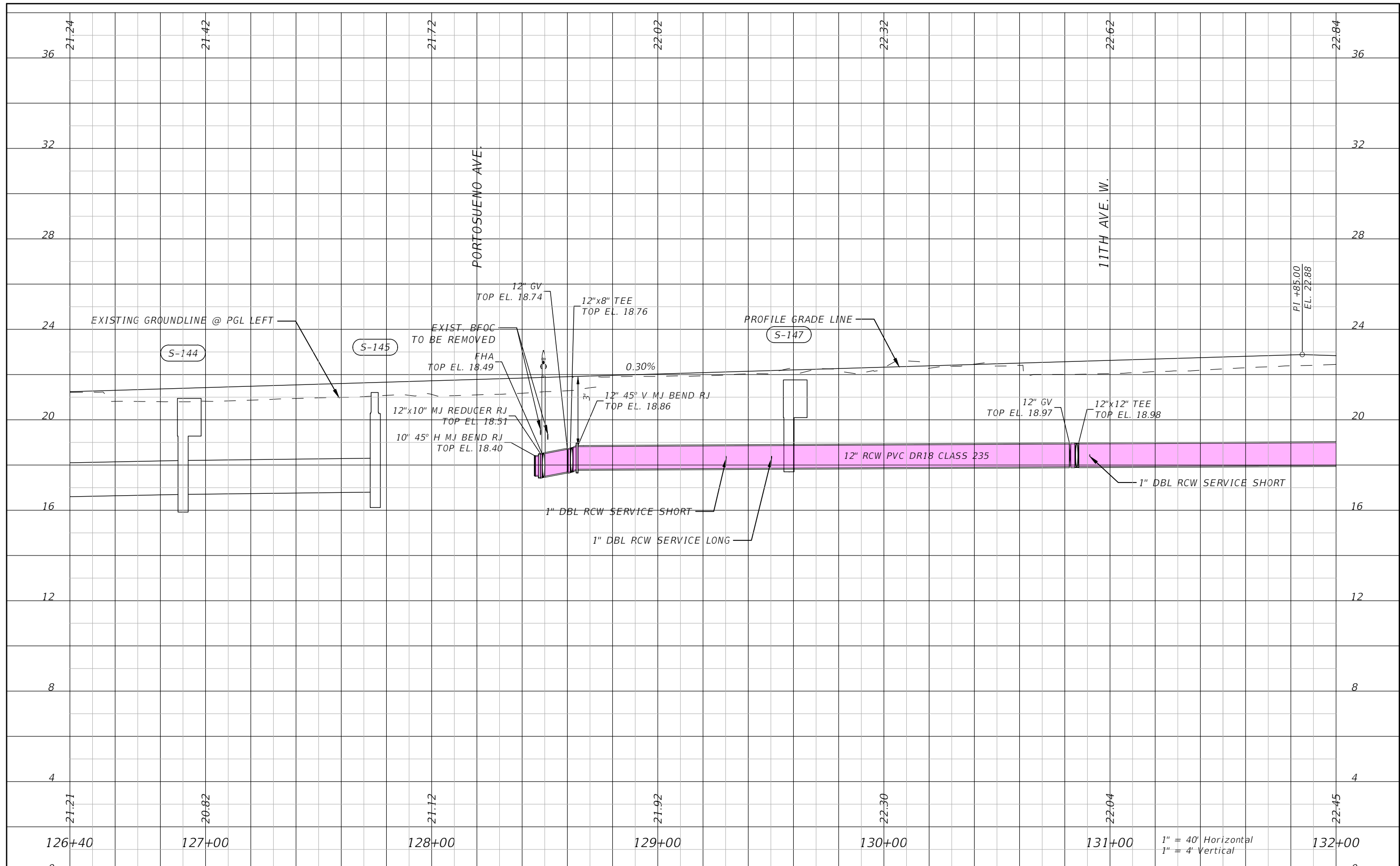
KRISTINA CONNELLY, P.E.  
P.E. LICENSE NUMBER 54805  
1412 JACKSON ST., SUITE 3  
FORT MYERS, FLORIDA, 33901



MANATEE COUNTY  
PUBLIC WORKS  
COUNTY PROJECT NO:  
6002294

11TH AVE W AND 75TH ST W  
RECLAIMED WATER MAIN IMPROVEMENTS  
**UTILITY RELOCATION PLAN**

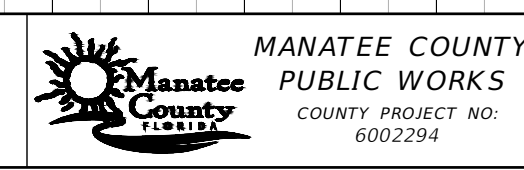
SHEET NO.  
U-10



REVISIONS			
DATE	DESCRIPTION	DATE	BY
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KRISTINA CONNELLY, P.E.  
 P.E. LICENSE NUMBER 54805  
 1412 JACKSON ST., SUITE 3  
 FORT MYERS, FLORIDA, 33901

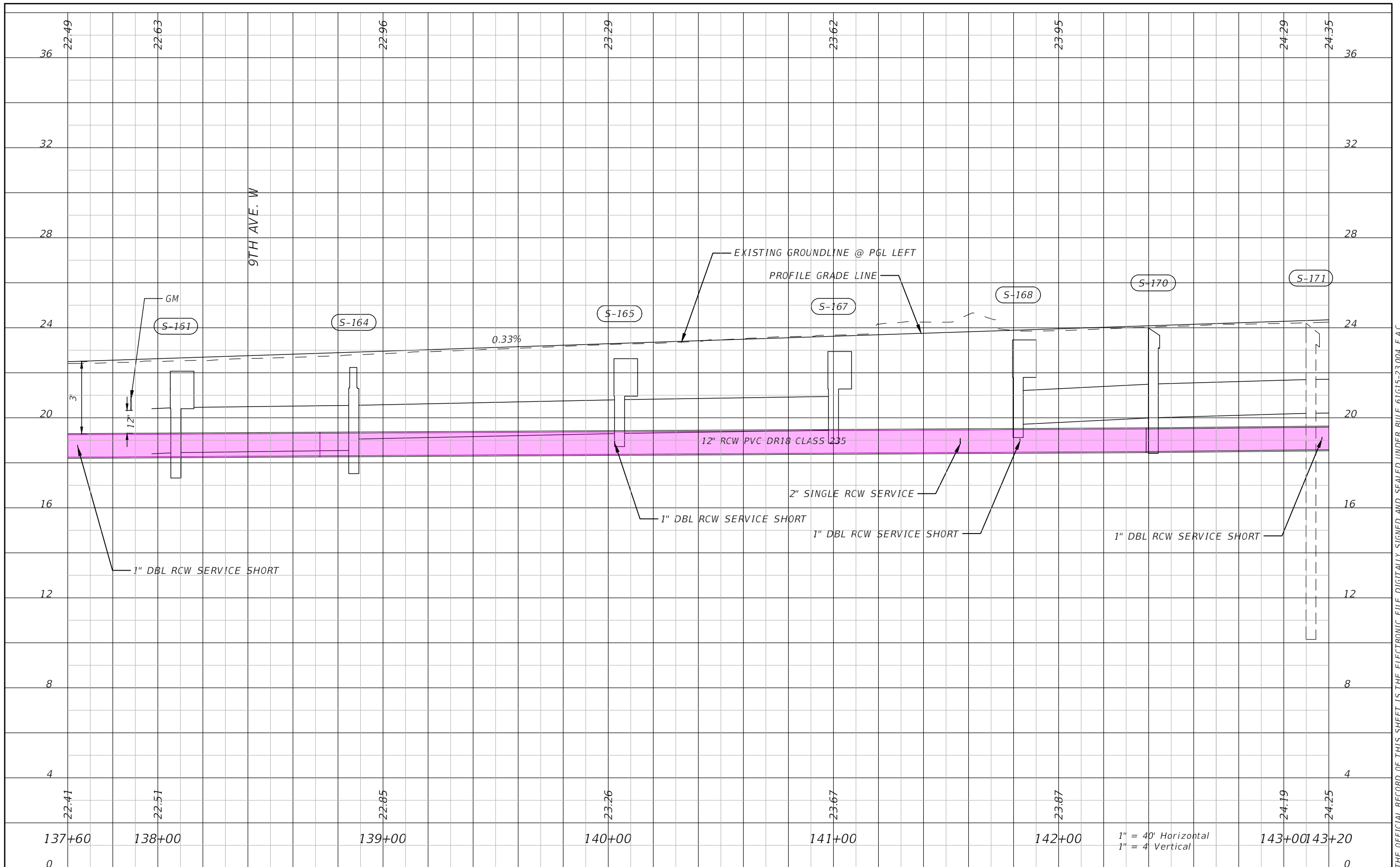


11TH AVE W AND 76TH ST W  
 RECLAIMED WATER MAIN IMPROVEMENTS  
**UTILITY RELOCATION PROFILE**

SHEET NO.  
 U-11

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1" = 40' Horizontal  
1" = 4' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	BY
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KRISTINA CONNELLY, P.E.  
P.E. LICENSE NUMBER 54805  
1412 JACKSON ST., SUITE 3  
FORT MYERS, FLORIDA, 33901

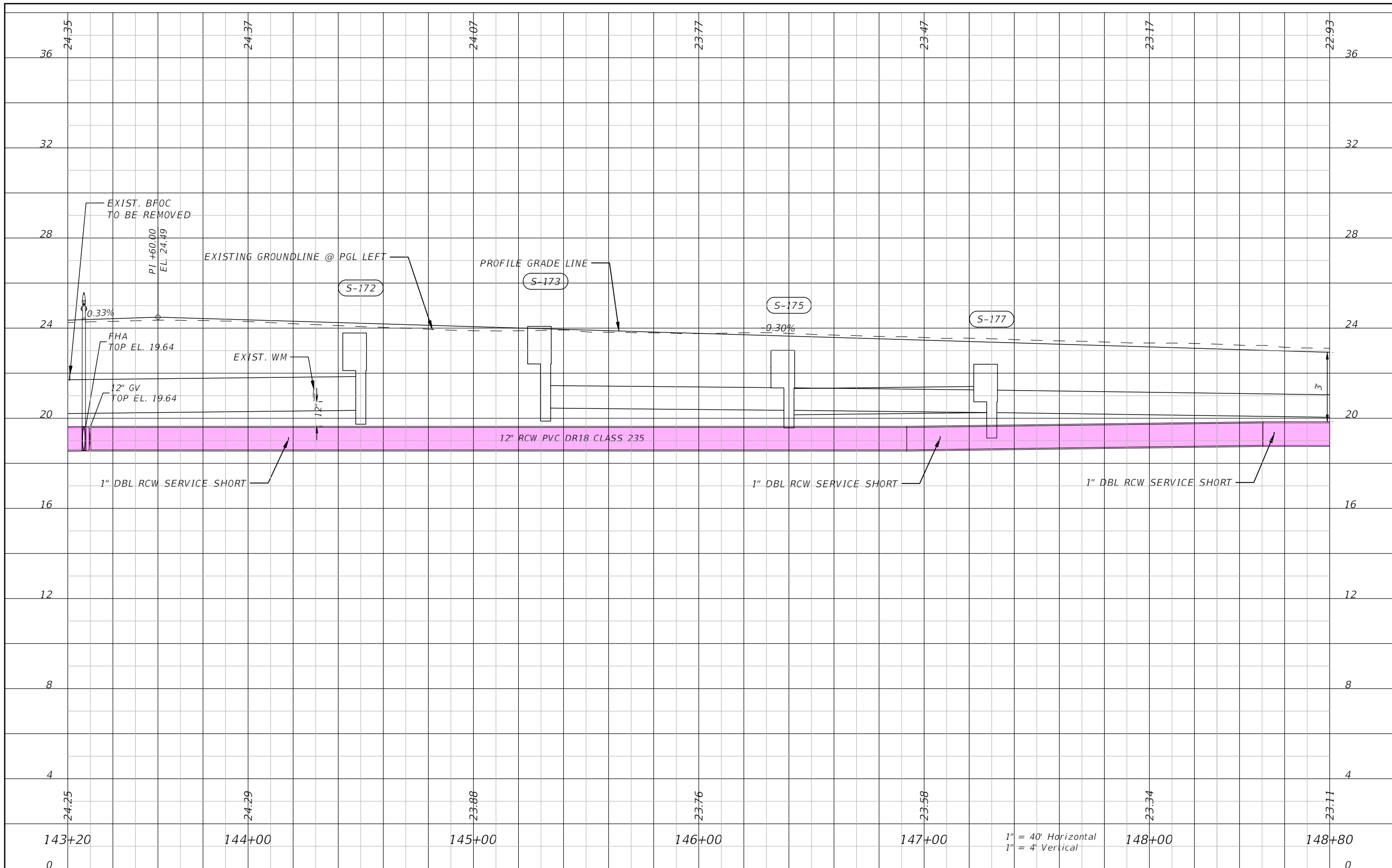


MANATEE COUNTY  
PUBLIC WORKS  
COUNTY PROJECT NO:  
6002294

11TH AVE W AND 75TH ST W  
RECLAIMED WATER MAIN IMPROVEMENTS  
**UTILITY RELOCATION PROFILE**

SHEET NO.  
U-13

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REVISIONS			
DATE	DESCRIPTION	DATE	BY
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KRISTINA CONNELLY, P.E.  
 P.E. LICENSE NUMBER 54805  
 1412 JACKSON ST., SUITE 3  
 FORT MYERS, FLORIDA, 33901

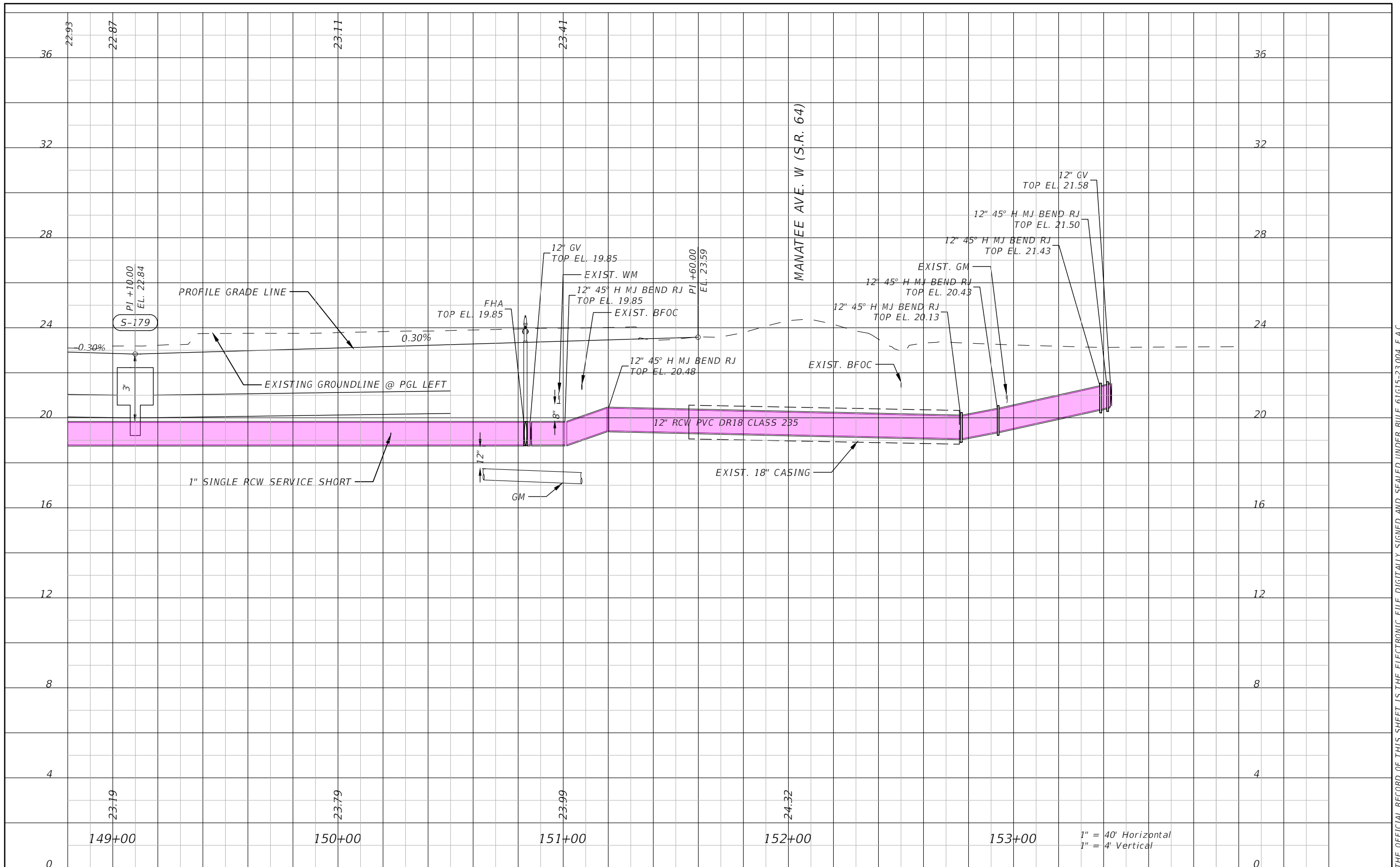


MANATEE COUNTY  
 PUBLIC WORKS  
 COUNTY PROJECT NO:  
 6002294

11TH AVE W AND 76TH ST W  
 RECLAIMED WATER MAIN IMPROVEMENTS  
**UTILITY RELOCATION PROFILE**

SHEET NO.  
 U-14

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

REVISIONS			
DATE	DESCRIPTION	DATE	BY
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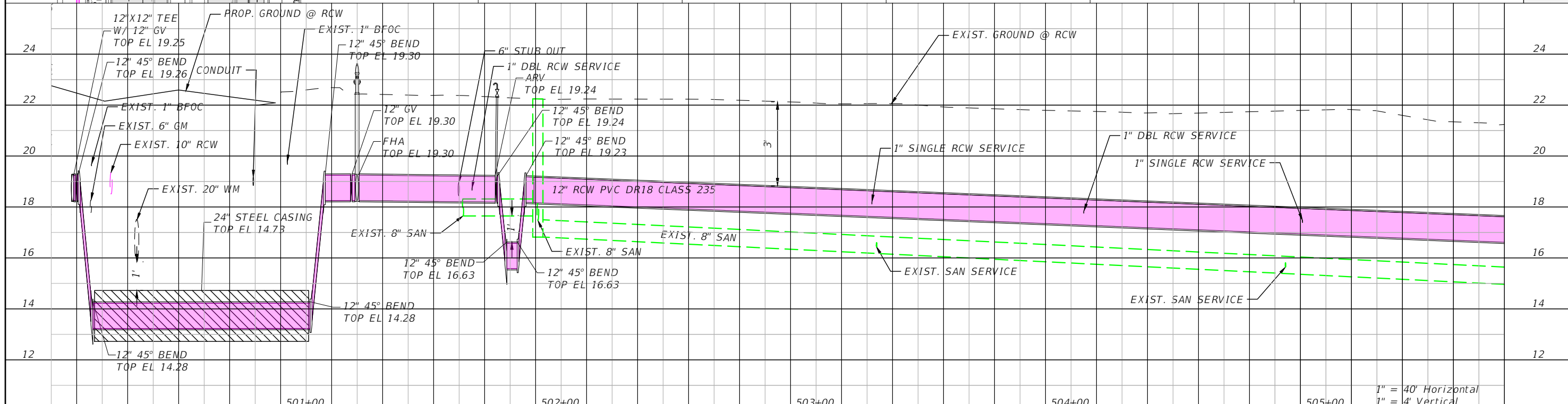
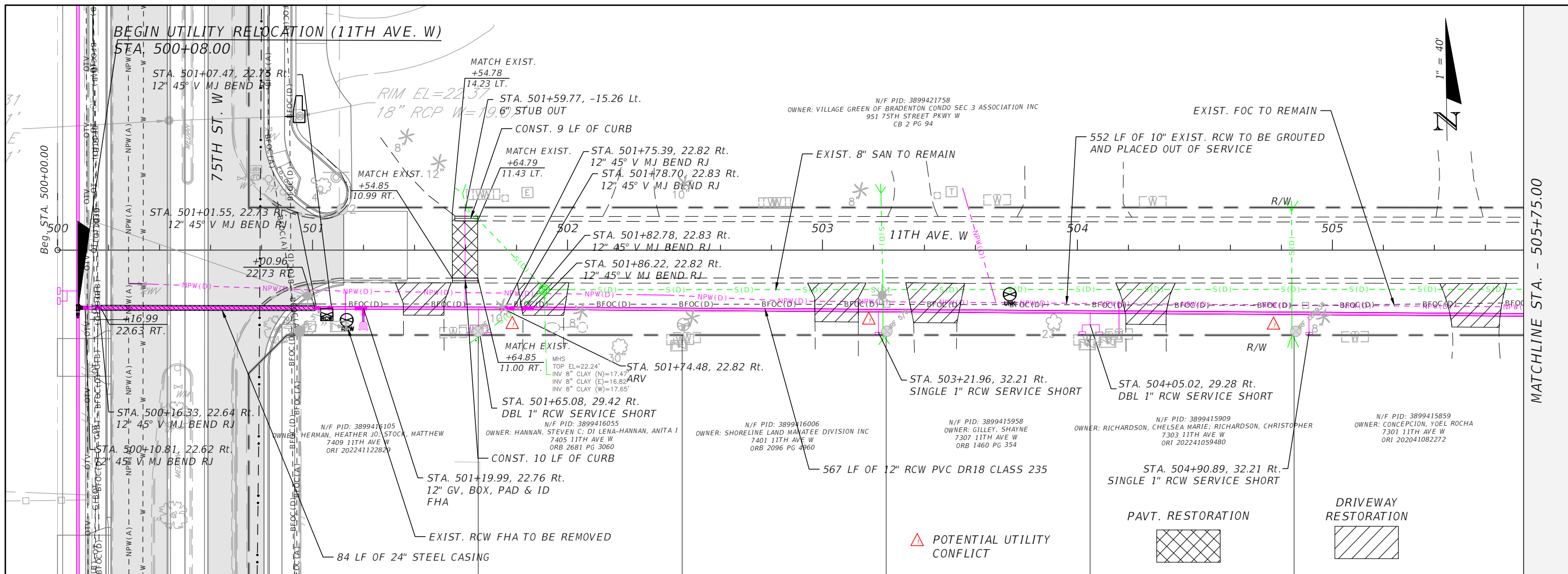
KRISTINA CONNELLY, P.E.  
 P.E. LICENSE NUMBER 54805  
 1412 JACKSON ST., SUITE 3  
 FORT MYERS, FLORIDA, 33901



MANATEE COUNTY  
 PUBLIC WORKS  
 COUNTY PROJECT NO:  
 6002294

11TH AVE W AND 76TH ST W  
 RECLAIMED WATER MAIN IMPROVEMENTS  
**UTILITY RELOCATION PROFILE**

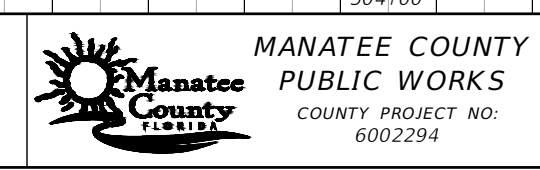
SHEET NO.  
 U-15



REVISIONS		DATE	BY
DATE	DESCRIPTION	DATE	BY
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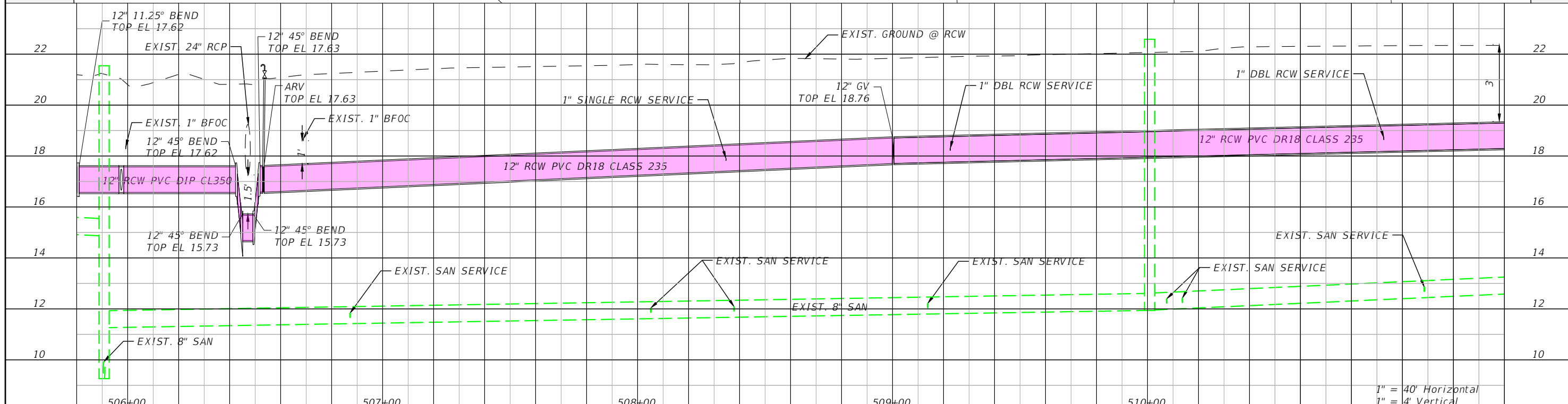
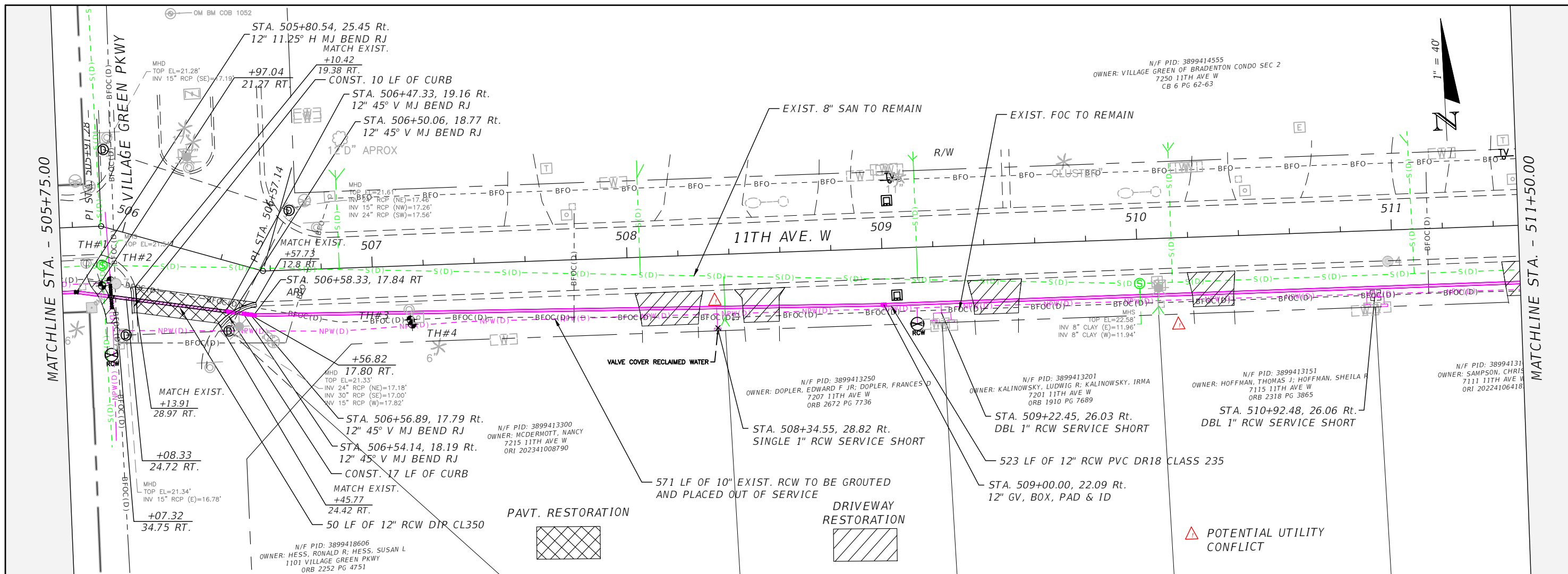
KRISTINA CONNELLY, P.E.  
 P.E. LICENSE NUMBER 54805  
 1412 JACKSON ST., SUITE 3  
 FORT MYERS, FLORIDA, 33901



11TH AVE W AND 75TH ST W  
 RECLAIMED WATER MAIN IMPROVEMENTS  
**UTILITY RELOCATION  
 PLAN & PROFILE**  
 SHEET NO.  
 U-16

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

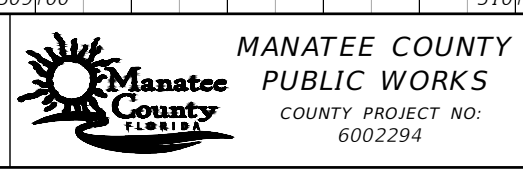




REVISIONS			
DATE	DESCRIPTION	DATE	BY
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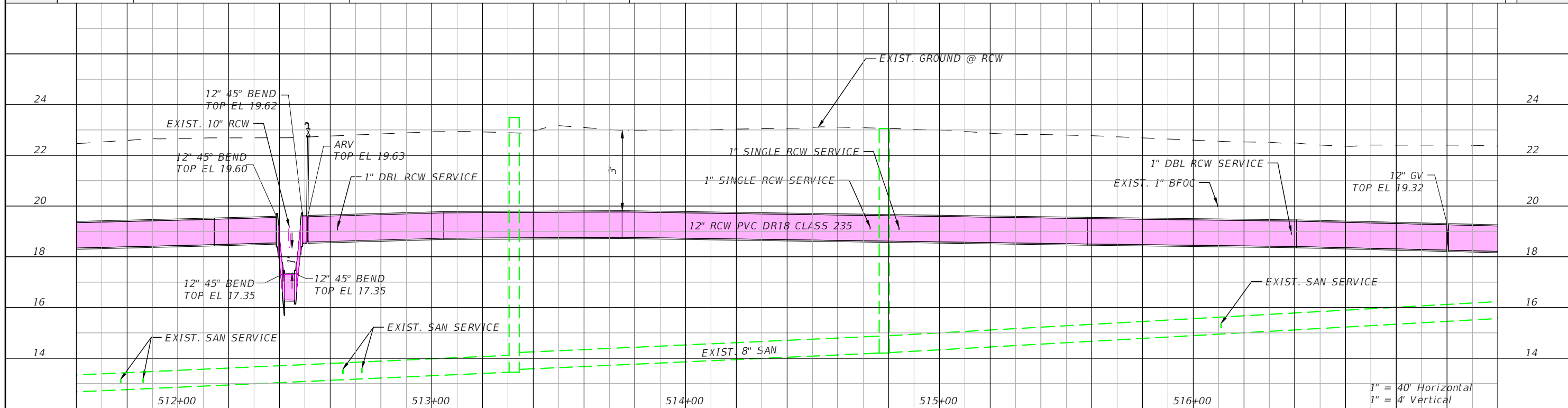
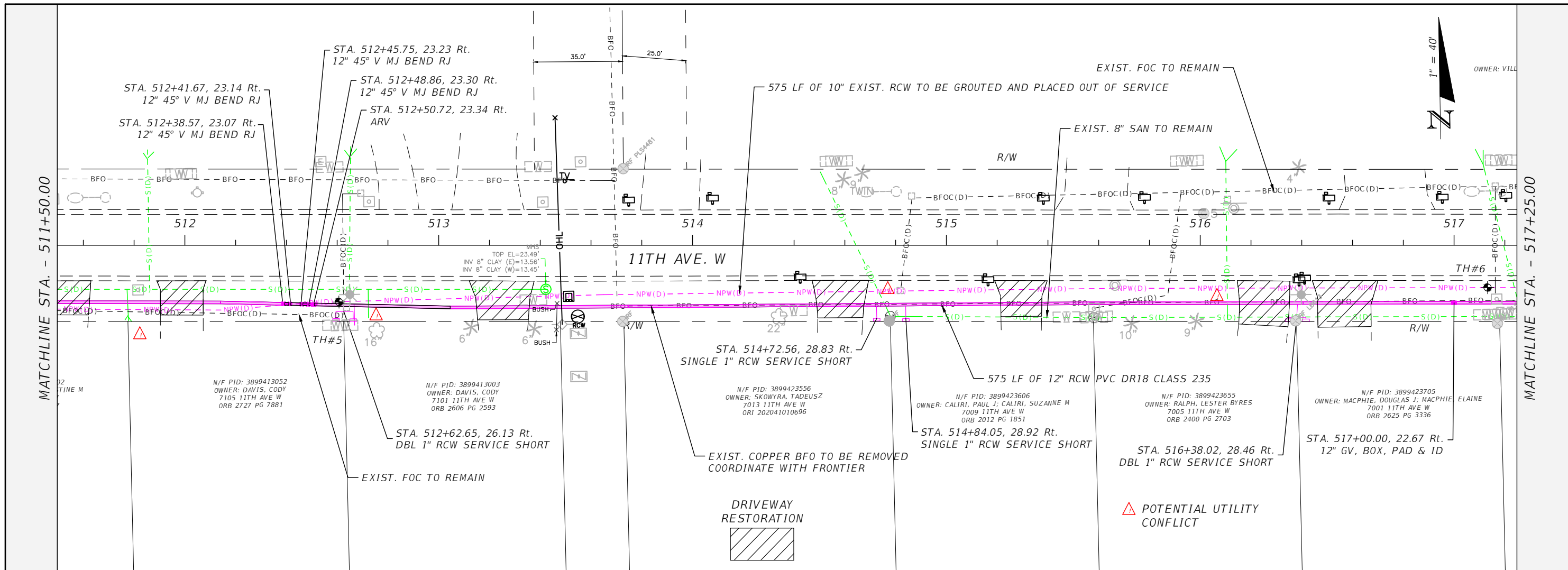


KRISTINA CONNELLY, P.E.  
P.E. LICENSE NUMBER 54805  
1412 JACKSON ST., SUITE 3  
FORT MYERS, FLORIDA, 33901



11TH AVE W AND 76TH ST W  
RECLAIMED WATER MAIN IMPROVEMENTS  
**UTILITY RELOCATION  
PLAN & PROFILE**  
SHEET NO.  
U-17

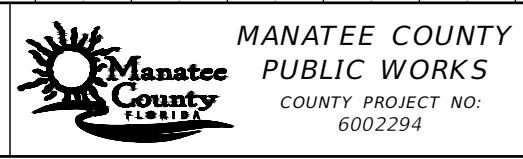
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REVISIONS			
DATE	DESCRIPTION	DATE	BY
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KRISTINA CONNELLY, P.E.  
 P.E. LICENSE NUMBER 54805  
 1412 JACKSON ST., SUITE 3  
 FORT MYERS, FLORIDA, 33901

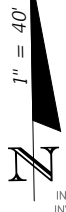


11TH AVE W AND 76TH ST W  
 RECLAIMED WATER MAIN IMPROVEMENTS  
**UTILITY RELOCATION  
 PLAN & PROFILE**  
 SHEET NO. U-18

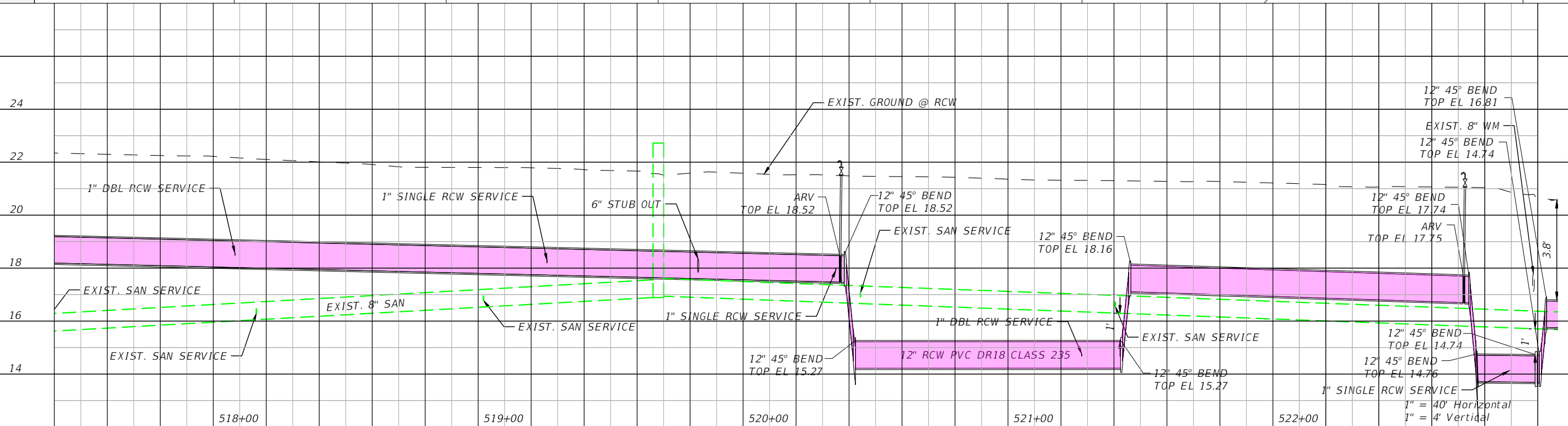
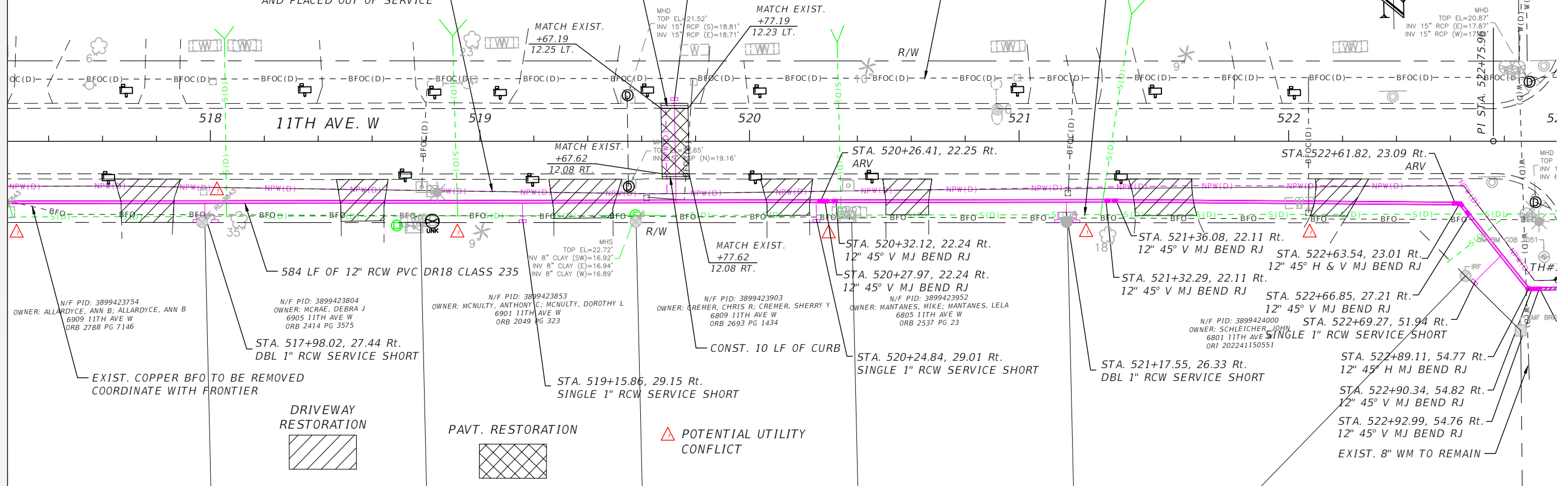
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

N/F PID: 3899428209  
 AGE GREEN OF BRADENTON CONDO SEC 4  
 11TH AVE W  
 CB 6 PG 67-69

N/F PID: 3899428209  
 OWNER: VILLAGE GREEN OF BRADENTON CONDO SEC 4  
 11TH AVE W  
 CB 6 PG 67-69



MATCHLINE STA. - 517+25.00



REVISIONS			
DATE	DESCRIPTION	DATE	BY



KRISTINA CONNELLY, P.E.  
 P.E. LICENSE NUMBER 54805  
 1412 JACKSON ST., SUITE 3  
 FORT MYERS, FLORIDA, 33901



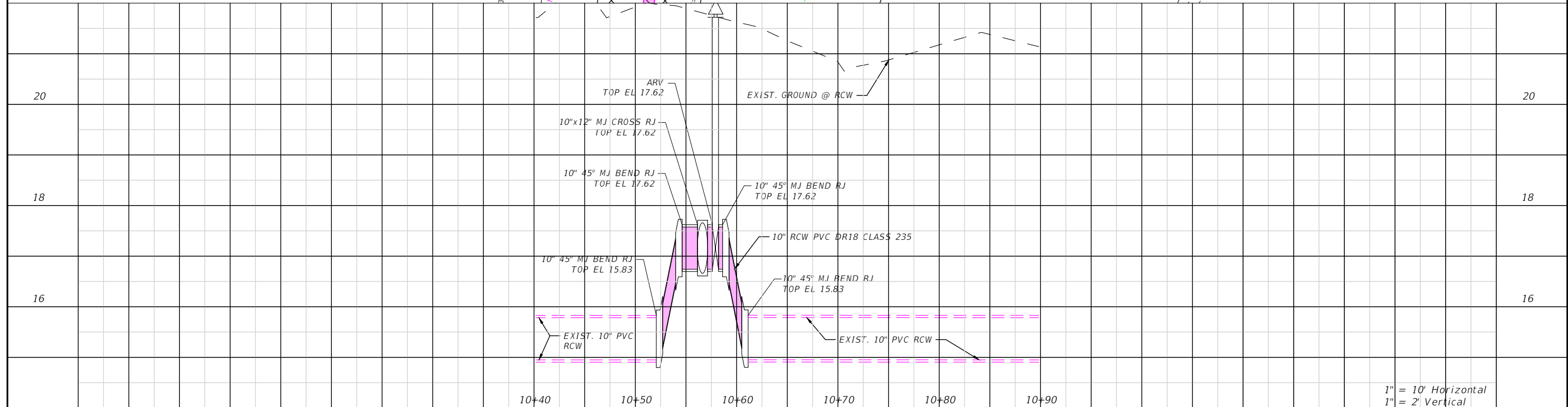
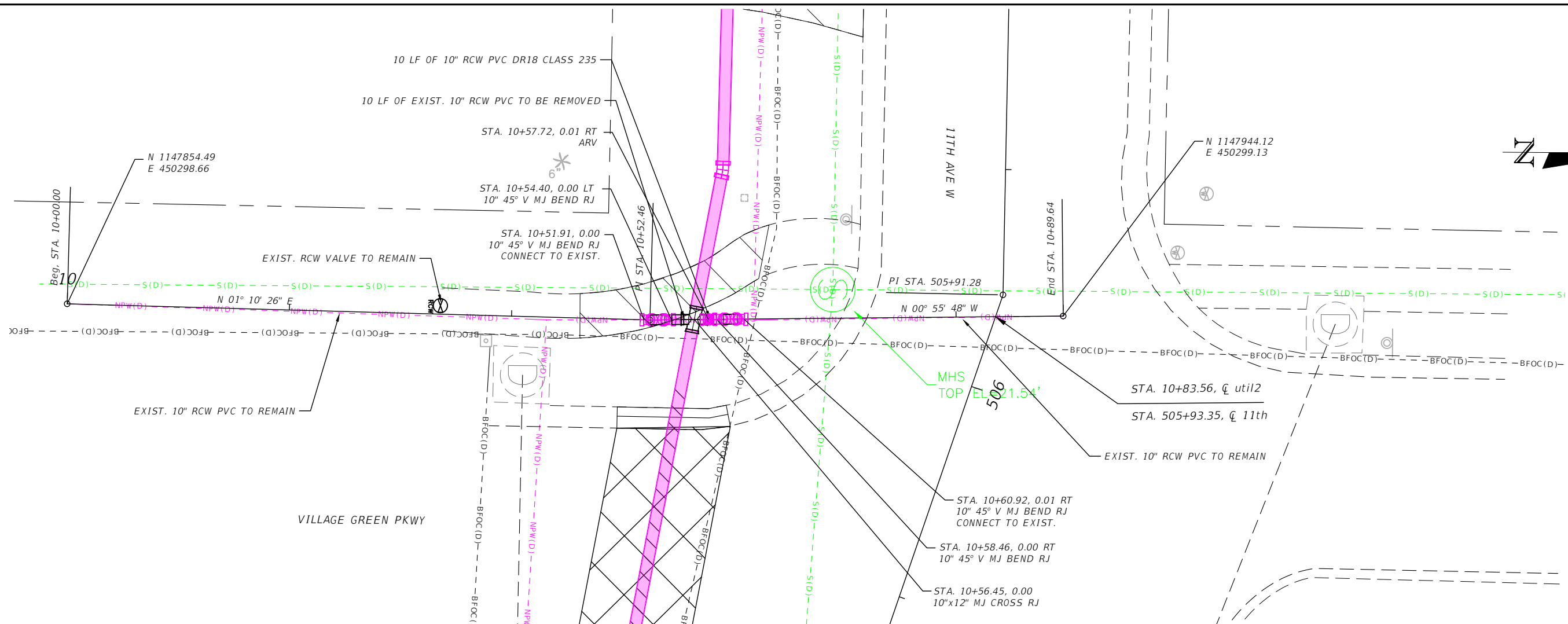
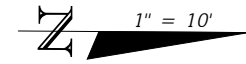
MANATEE COUNTY  
 PUBLIC WORKS  
 COUNTY PROJECT NO:  
 6002294

11TH AVE W AND 76TH ST W  
 RECLAIMED WATER MAIN IMPROVEMENTS  
**UTILITY RELOCATION  
 PLAN & PROFILE**

SHEET NO.  
 U-19

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





1" = 10' Horizontal  
1" = 2' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	BY



KRISTINA CONNELLY, P.E.  
P.E. LICENSE NUMBER 54805  
1412 JACKSON ST., SUITE 3  
FORT MYERS, FLORIDA, 33901

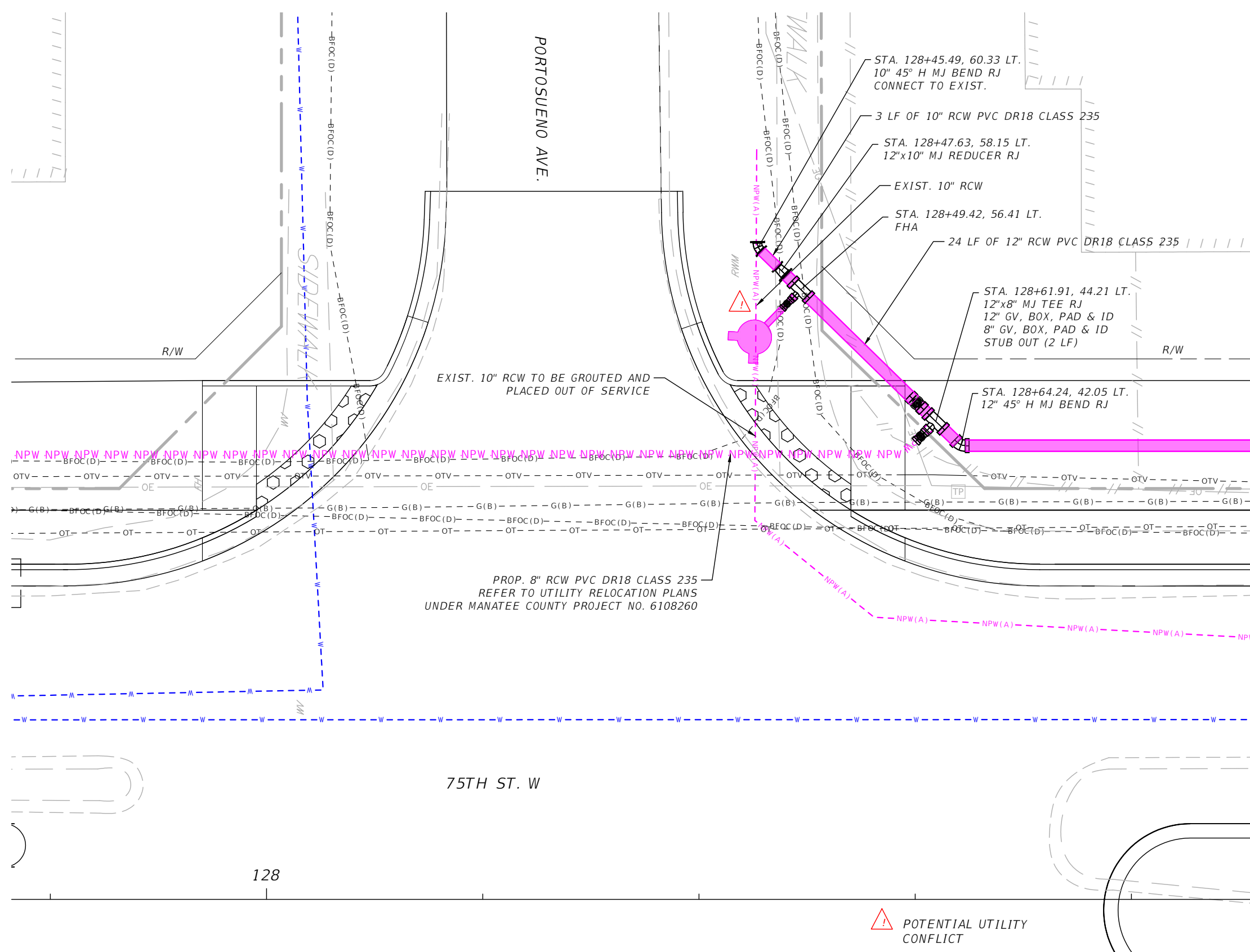
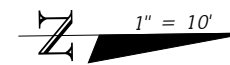


MANATEE COUNTY  
PUBLIC WORKS  
COUNTY PROJECT NO:  
6002294

11TH AVE W AND 75TH ST W  
RECLAIMED WATER MAIN IMPROVEMENTS  
**UTILITY RELOCATION  
PLAN & PROFILE**

SHEET  
NO.  
U-21

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



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

DATE		DESCRIPTION		DATE		BY		 <b>Stantec</b> STANTEC CONSULTING SERVICES, INC.	KRISTINA CONNELLY, P.E. P.E. LICENSE NUMBER 54805 1412 JACKSON ST., SUITE 3 FORT MYERS, FLORIDA, 33901	 <b>MANATEE COUNTY</b> <b>PUBLIC WORKS</b> COUNTY PROJECT NO: 6002294	11TH AVE W AND 75TH ST W RECLAIMED WATER MAIN IMPROVEMENTS		SHEET NO.
											<b>PORTOSUENO AVE.</b> <b>UTILITY DETAIL</b>		U-22



TEMPORARY TRAFFIC CONTROL PLAN GENERAL NOTES

1. POSTED REGULATORY SPEED LIMIT SHALL BE 30 MPH DURING CONSTRUCTION.
2. THE COST OF MAINTENANCE OF TRAFFIC OPERATIONS SHALL BE INCLUDED UNDER THE LUMP SUM PAY ITEM FOR MAINTENANCE OF TRAFFIC, UNLESS A SEPARATE PAY ITEM IS PROVIDED.
3. THE CONTRACTOR SHALL PROVIDE FOR THE SAFE MOVEMENT OF PEDESTRIANS AND VEHICLES THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING DELIVERIES AND DROP-OFFS IN WORK ZONES.
4. THE CONTRACTOR SHALL PLACE A PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) 1200' PRIOR TO THE BEGINNING OF CONSTRUCTION, AS SHOWN IN THE ADVANCE SIGNING DETAIL. BEGINNING TWO WEEKS PRIOR TO THE FIRST DAY OF ROADWAY CONSTRUCTION. SIMILARLY, PCMS SHALL ALSO BE PLACED ON EACH SIDE OF 11TH AVENUE N AT 1200' PRIOR TO INTERSECTIONS. THE MESSAGE SHALL READ AS FOLLOWS:

MESSAGE 1:	MESSAGE 2:
75TH ST	"DATE"
CONST.	EXPECT
BEGINS	DELAYS

MESSAGE 1:	MESSAGE 2:
68TH ST W	"DATE"
CONST.	EXPECT
BEGINS	DELAYS

MESSAGE 1:	MESSAGE 2:
VILLAGE GREEN PKWY	"DATE"
CONST.	EXPECT
BEGINS	DELAYS

5. THE PORTABLE CHANGEABLE MESSAGE SIGN SHALL REMAIN FOR A PERIOD OF SIXTY (60) DAYS AFTER THE INITIAL TWO WEEKS, AND DURING THAT PERIOD, THE SUGGESTED MESSAGE SHALL READ AS FOLLOWS:

MESSAGE 1:	MESSAGE 2:
WORK	EXPECT
AHEAD	DELAYS

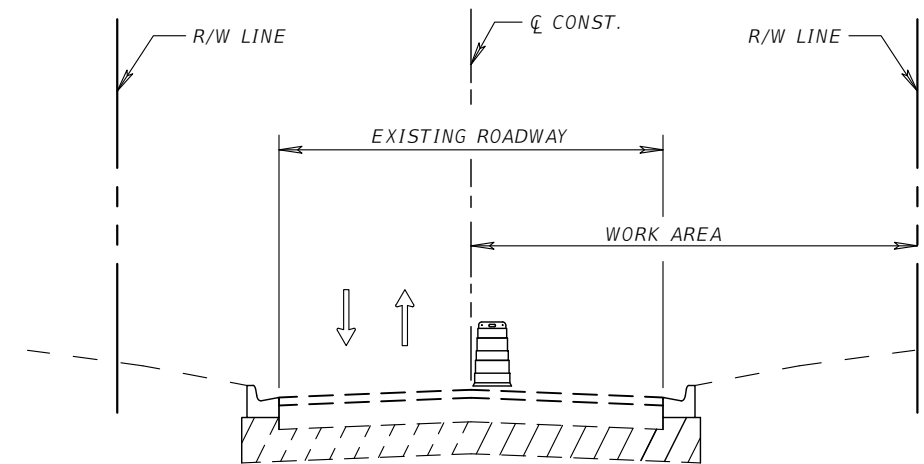
6. INCLUDE PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) INFORMATION FROM THE MANATEE COUNTY TRAFFIC SIGNAL DESIGN GUIDE (MCTSDG) FOR THE UTILITY WORK ON 11TH AVE. N. COST OF FURNISHING PCMS TO BE INCLUDED UNDER PAY ITEM NO. 102-1 - MAINTENANCE OF TRAFFIC.
7. ARROWS DENOTE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
8. EXISTING DRAINAGE PATTERNS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION OF THE PROJECT.
9. ACCESS SHALL BE CONTINUOUSLY MAINTAINED AT SIDE STREETS AND DRIVEWAYS FOR THE DURATION OF THE PROJECT. TEMPORARY DRIVEWAY CONNECTIONS MAY BE REQUIRED. CONTRACTOR TO COORDINATE WITH OWNERS OF IMPACTED DRIVEWAYS TO MINIMIZE DISRUPTION DURING OPERATIONS.
10. CONTRACTOR SHALL MAINTAIN EXISTING PEDESTRIAN TRAFFIC UTILIZING SIDEWALK DIVERSIONS OR DETOURS PER FDOT INDEX 102-660, AS NECESSARY.
11. THE CONTRACTOR SHALL NOTIFY MANATEE COUNTY PUBLIC WORKS PRIOR TO A LANE CLOSURE THAT WILL EXCEED TWO HOURS, A MINIMUM OF FOURTY EIGHT (48) HOURS IN ADVANCE. DURING PERIODS OF LANE CLOSURES, THE CONTRACTOR SHALL PROVIDE AN FDOT CERTIFIED WORK SITE TRAFFIC SUPERVISOR FOR THE INSTALLATION, MAINTENANCE, AND REMOVAL OF TRAFFIC CONTROL DEVICES (E.G. BARRICADES, SIGNS, ARROW PANELS, ETC.) AS OUTLINED IN THE FDOT STANDARD SPECIFICATIONS AND THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS.
12. FOR SIDE STREET INTERSECTIONS, LANE CLOSURE SHALL BE LIMITED TO ONE LANE AT ALL TIMES. AT A MINIMUM, ONE-LANE, TWO-WAY OPERATION SHALL BE MAINTAINED THROUGH THE USE OF FLAGGERS.
13. UPON WRITTEN APPROVAL FROM MANATEE COUNTY, THE CONTRACTOR MAY CLOSE TO THROUGH-TRAFFIC THAT PORTION OF SIDE STREETS WITHIN THE LIMITS OF CONSTRUCTION. ACCESS FOR LOCAL TRAFFIC WITH DESTINATIONS WITHIN THE PROJECT LIMITS SHALL BE

MAINTAINED.

14. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT OR REMOVE LANE CLOSURE OR CHANNELIZATION. UNDER THESE CONDITIONS, THE CONTRACTOR SHALL RESPOND AND PROVIDE ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL ALSO RESPOND WITHIN THE CONSTRAINTS OUTLINED IN THE STANDARD SPECIFICATIONS UPON NOTIFICATION BY THE ENGINEER OF ANY REQUESTS FOR CORRECTION, IMPROVEMENT, OR MODIFICATION TO THE TRAFFIC CONTROL PLAN AND/OR DEVICES. THE COST OF THIS SERVICE SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR MAINTENANCE OF TRAFFIC.
15. CONTRACTOR SHALL MAINTAIN AND KEEP SIDE ROAD NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
16. MAINTAIN EXISTING SIGNS AS APPLICABLE DURING EACH PHASE AND REMOVE OR COVER THOSE THAT ARE IN CONFLICT WITH TTC PLAN SIGNAGE.
17. FOR TEMPORARY CONSTRUCTION SIGNS LOCATED IN PAVED AREAS, THE CONTRACTOR SHALL PROVIDE TEMPORARY SIGN SUPPORTS WHICH DO NOT PENETRATE THE PAVEMENT.
18. TEMPORARY BLUE BUSINESS SIGNS TO BE INSTALLED AND MAINTAINED JUST PRIOR TO ALTERING EXISTING DRIVEWAYS.
19. TEMPORARY PAVEMENT SHALL CONSIST OF A MINIMUM OF 6" OF LIMEROCK BASE, PRIME COAT AND 1" OF SUPERPAVE ASPHALTIC CONCRETE. THE BASE LAYER SHALL BE PLACED OVER A FIRM, UNYIELDING, WELL-COMPACTED SUBGRADE. COST OF CONSTRUCTION AND REMOVAL OF TEMPORARY PAVEMENT TO BE INCLUDED IN PAY ITEM 102-1 - MAINTENANCE OF TRAFFIC.

PHASE NOTES

1. PRIOR TO SETUP OF FULL WORK AREA ON 11TH AVE. N., USE FDOT STANDARD PLANS INDEXES 102-603 AND 102-604 TO ESTABLISH WORK AREA FROM STA. 500+17.01 TO STA. 523+22.76.
2. PLACE ADVANCE WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES AS SHOWN IN FDOT STANDARD PLANS INDEX 102-603 AND 102-604.
3. CONSTRUCT UTILITY MAIN AND SERVICE CONNECTIONS AS SHOWN IN UTILITY RELOCATION PLANS.
4. REGRADE AND SOD ANY DISTURBED AREA DURING CONSTRUCTION.
5. REMOVE ALL TEMPORARY CONTROL DEVICES AND ADVANCED WARNING SIGNS UPON COMPLETION.



11TH AVE. W

STA. 500+17.01 TO STA. 523+22.76

\* REFER TO ROADWAY PLANS FOR TTCP ON 75TH ST. W

REVISIONS			
NO.	DESCRIPTION	DATE	BY



KRISTINA CONNELLY, P.E.  
P.E. LICENSE NUMBER 54805  
1412 JACKSON ST., SUITE 3  
FORT MYERS, FLORIDA, 33901



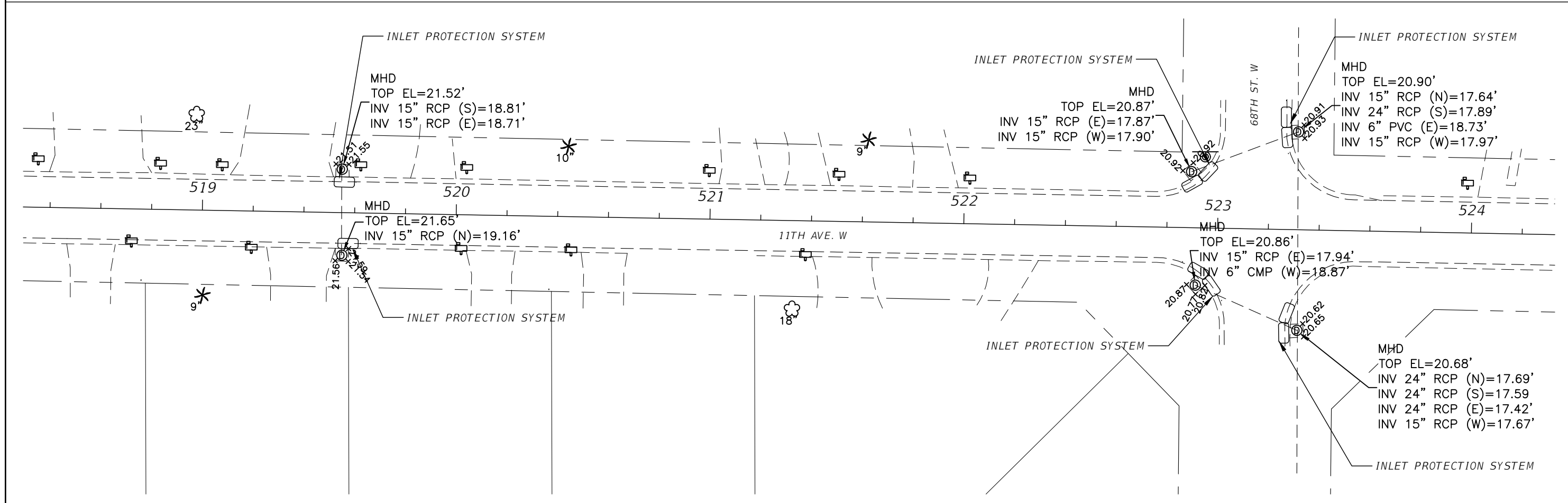
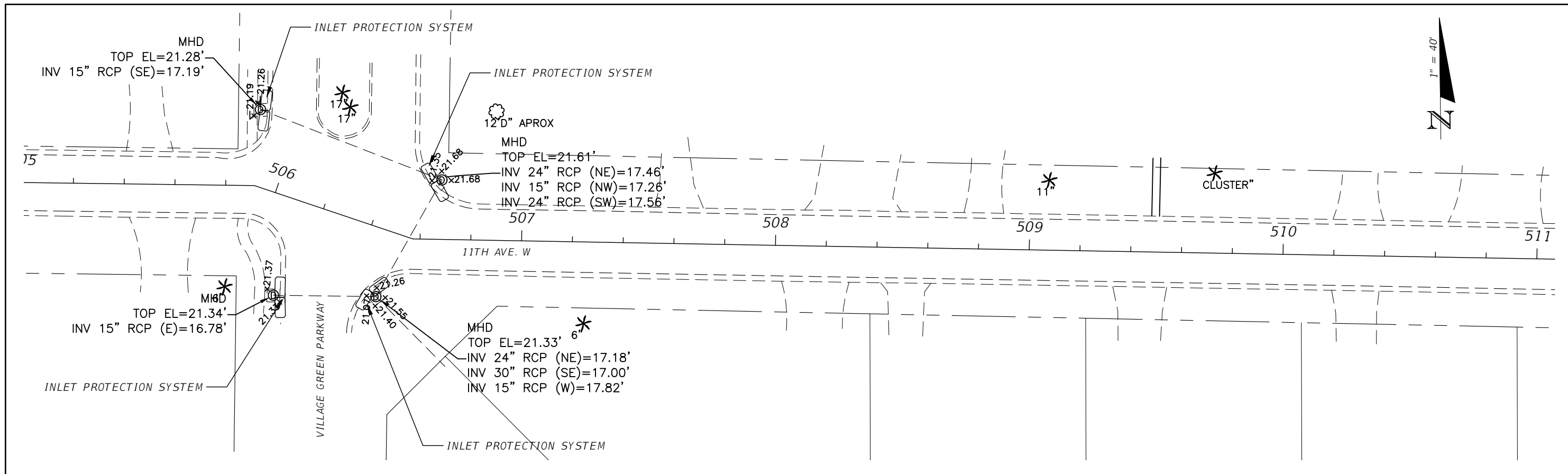
MANATEE COUNTY  
PUBLIC WORKS  
COUNTY PROJECT NO:  
6002294

11TH AVE W AND 75TH ST W  
RECLAIMED WATER MAIN IMPROVEMENTS  
**TEMPORARY TRAFFIC CONTROL  
NOTES & DETAIL**

SHEET  
NO.

U-24





DATE	DESCRIPTION	DATE	BY

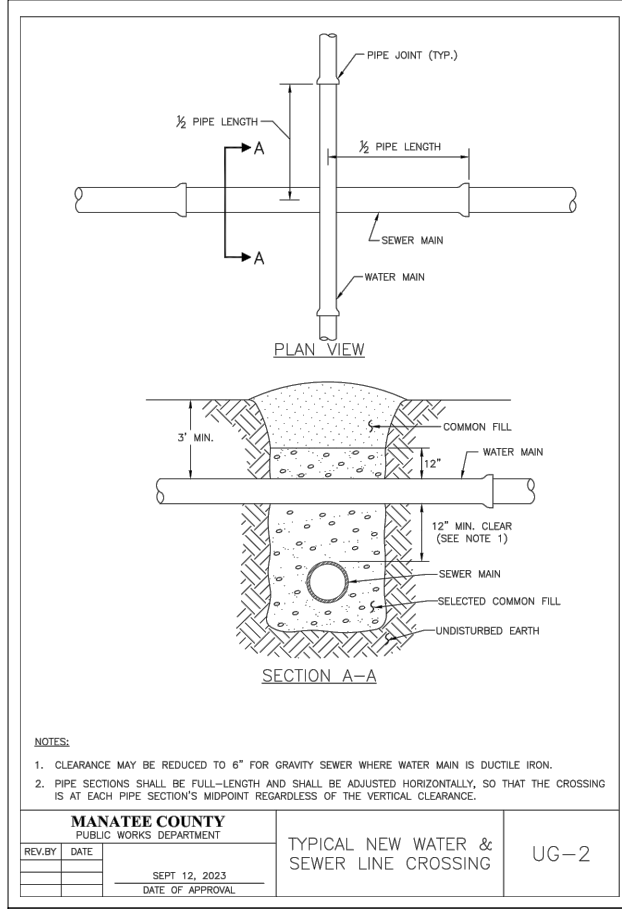
**Stantec**  
STANTEC CONSULTING SERVICES, INC.

KRISTINA CONNELLY, P.E.  
P.E. LICENSE NUMBER 54805  
1412 JACKSON ST., SUITE 3  
FORT MYERS, FLORIDA, 33901

**MANATEE COUNTY**  
PUBLIC WORKS  
COUNTY PROJECT NO:  
6002294

11TH AVE W AND 75TH ST W  
RECLAIMED WATER MAIN IMPROVEMENTS  
**STORM WATER POLLUTION  
PREVENTION PLAN**

SHEET  
NO.  
U-25

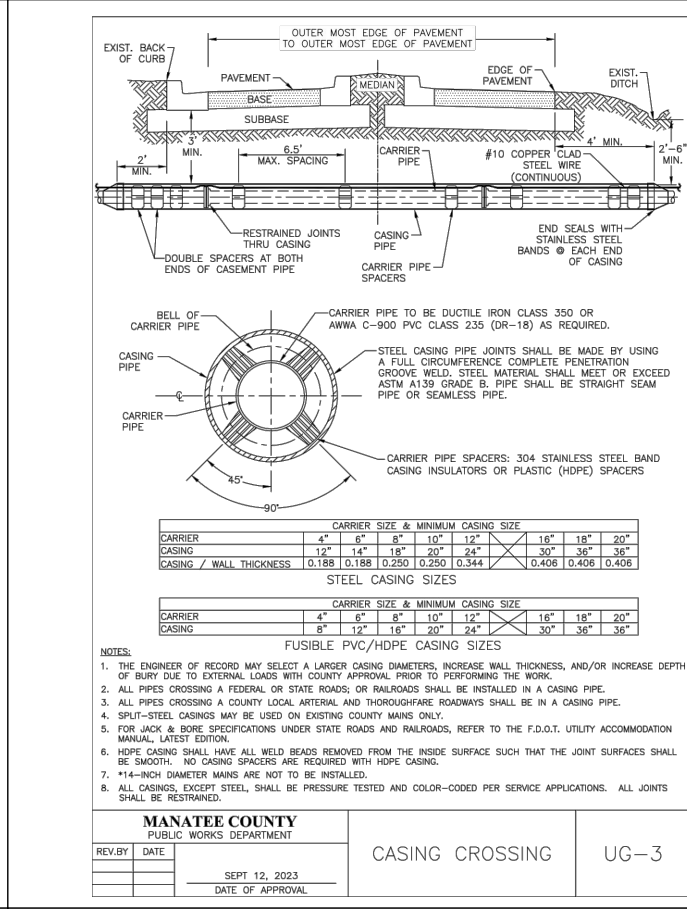


**MANATEE COUNTY**  
PUBLIC WORKS DEPARTMENT

REV. BY: DATE: SEPT 12, 2023  
DATE OF APPROVAL:

TYPICAL NEW WATER & SEWER LINE CROSSING

UG-2

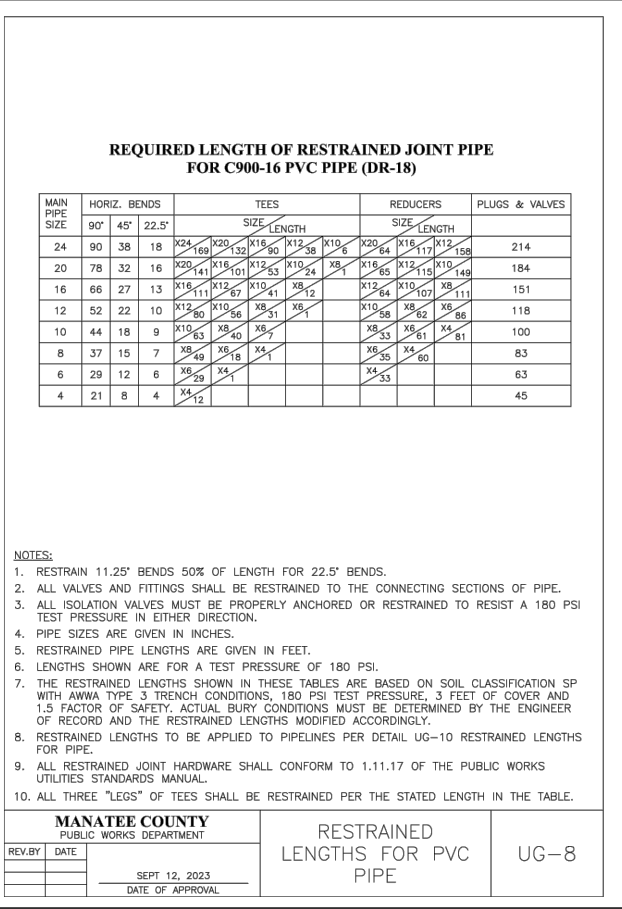


**MANATEE COUNTY**  
PUBLIC WORKS DEPARTMENT

REV. BY: DATE: SEPT 12, 2023  
DATE OF APPROVAL:

CASING CROSSING

UG-3

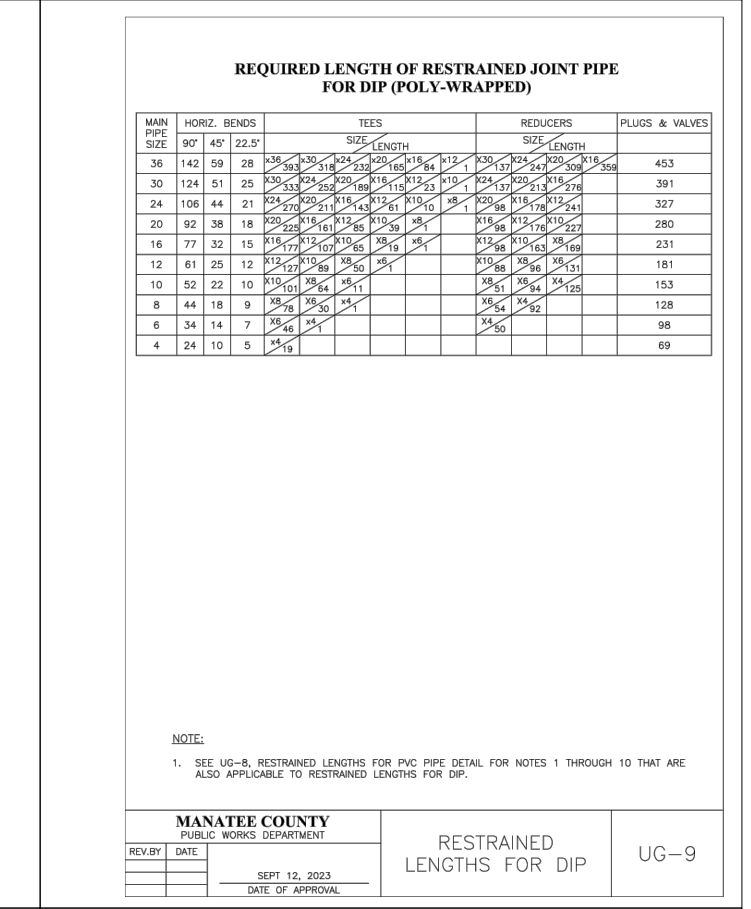


**MANATEE COUNTY**  
PUBLIC WORKS DEPARTMENT

REV. BY: DATE: SEPT 12, 2023  
DATE OF APPROVAL:

RESTRAINED LENGTHS FOR PVC PIPE

UG-8

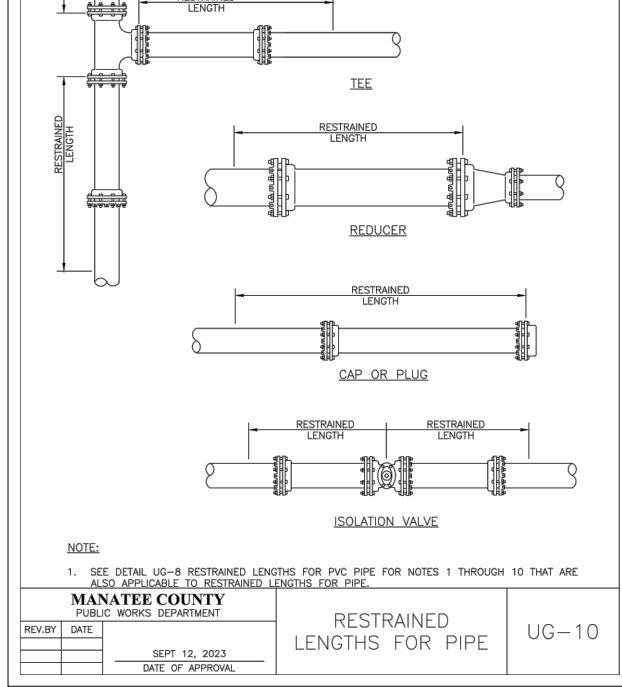


**MANATEE COUNTY**  
PUBLIC WORKS DEPARTMENT

REV. BY: DATE: SEPT 12, 2023  
DATE OF APPROVAL:

RESTRAINED LENGTHS FOR DIP

UG-9

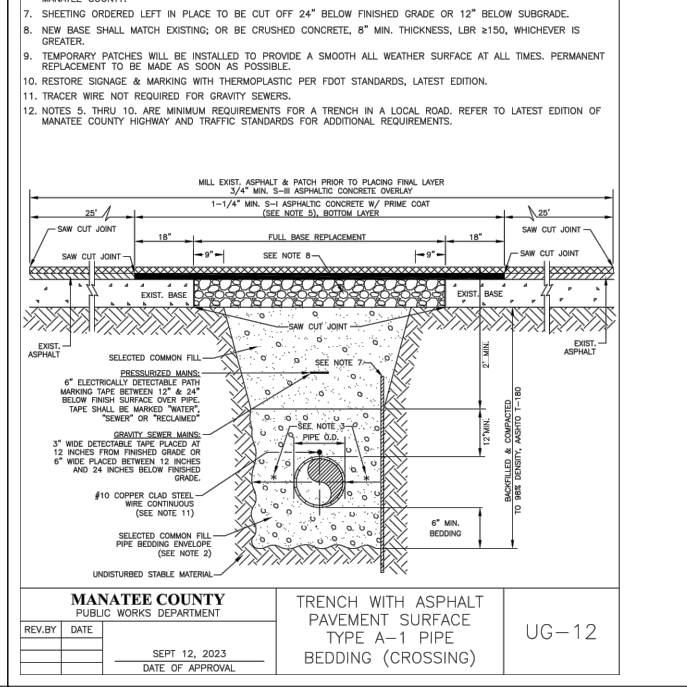


**MANATEE COUNTY**  
PUBLIC WORKS DEPARTMENT

REV. BY: DATE: SEPT 12, 2023  
DATE OF APPROVAL:

RESTRAINED LENGTHS FOR PIPE

UG-10

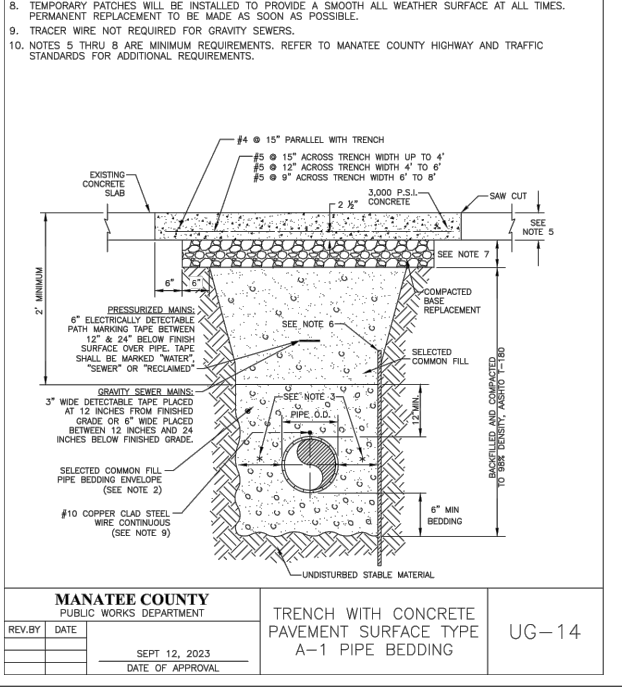


**MANATEE COUNTY**  
PUBLIC WORKS DEPARTMENT

REV. BY: DATE: SEPT 12, 2023  
DATE OF APPROVAL:

TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING (CROSSING)

UG-12

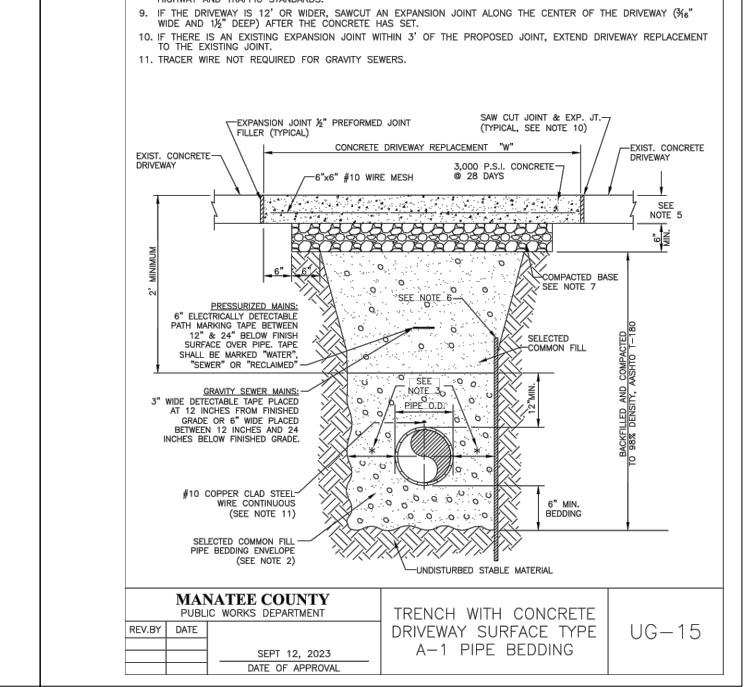


**MANATEE COUNTY**  
PUBLIC WORKS DEPARTMENT

REV. BY: DATE: SEPT 12, 2023  
DATE OF APPROVAL:

TRENCH WITH CONCRETE PAVEMENT SURFACE TYPE A-1 PIPE BEDDING

UG-14



**MANATEE COUNTY**  
PUBLIC WORKS DEPARTMENT

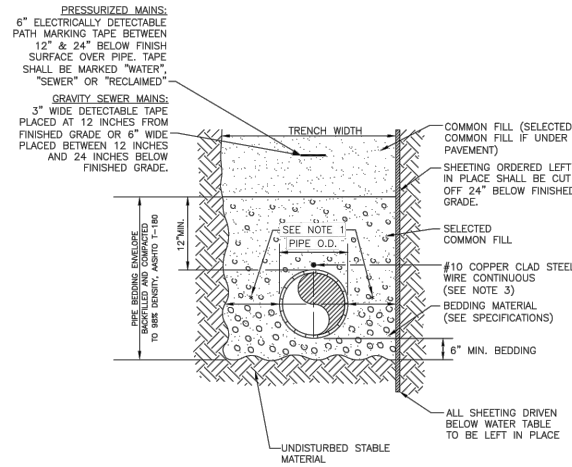
REV. BY: DATE: SEPT 12, 2023  
DATE OF APPROVAL:

TRENCH WITH CONCRETE DRIVEWAY SURFACE TYPE A-1 PIPE BEDDING

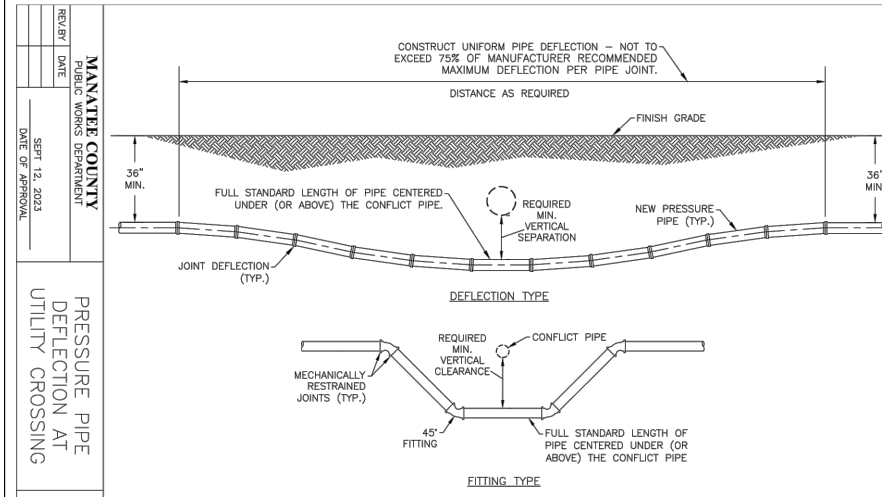
UG-15

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- NOTES:**
- 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.
  - PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
  - TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.

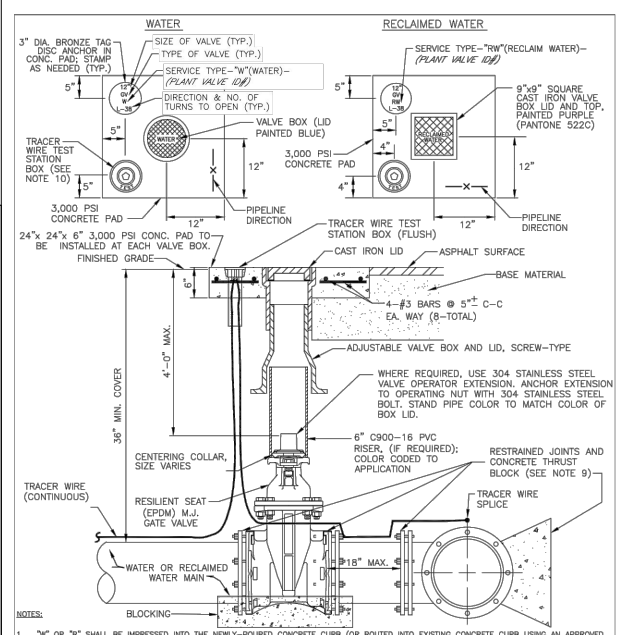


<b>MANATEE COUNTY</b> PUBLIC WORKS DEPARTMENT		TRENCH WITH TYPE A-2 PIPE BEDDING	UG-16
REV. BY	DATE		
	SEPT 12, 2023		
	DATE OF APPROVAL		



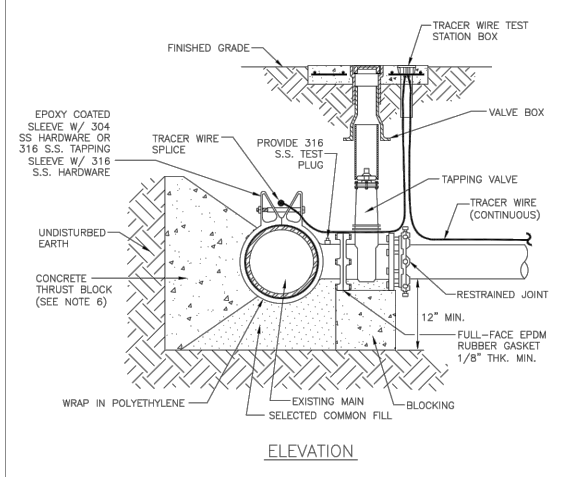
<b>MANATEE COUNTY</b> PUBLIC WORKS DEPARTMENT		PRESSURE PIPE DEFLECTION AT UTILITY CROSSING	UG-19
REV. BY	DATE		
	SEPT 12, 2023		
	DATE OF APPROVAL		

- NOTES:**
- AT ALL TIMES, PIPE SHALL CROSS ABOVE CONFLICT WHEN POSSIBLE.
  - THESE METHODS ARE TO BE USED WHEN INSUFFICIENT COVER EXISTS TO ALLOW PRESSURE PIPE TO CROSS ABOVE CONFLICT PIPE WITH 6" VERTICAL SEPARATION AND MAINTAIN REQUIRED COVER TO FINISHED GRADE.
  - THE DEFLECTION TYPE CROSSING IS PREFERRED.
  - DO NOT EXCEED 75% OF MANUFACTURER'S RECOMMENDED MAXIMUM JOINT DEFLECTION.
  - FITTINGS SHALL BE RESTRAINED AS SPECIFIED IN DETAIL UG-8 "RESTRAINED LENGTH FOR PVC PIPE" OR UG-9 "RESTRAINED LENGTH FOR DIP".



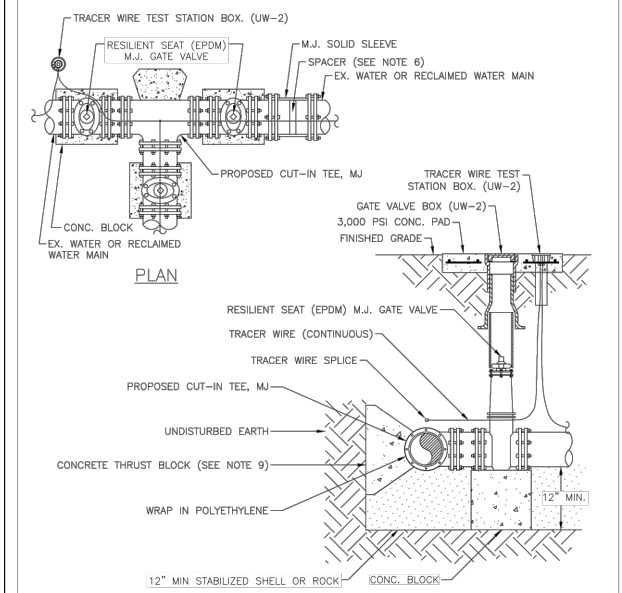
- NOTES:**
- "W" OR "RW" SHALL BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB (OR ROUTED INTO EXISTING CONCRETE CURB USING AN APPROVED TEMPLATE) AND INSTALL AN ALUMINUM BLUE DISC WITH "W" OR ALUMINUM PURPLE DISC WITH "RW" AND THE FOOTAGE FROM THE DISC TO THE VALVE USING A 1/8" x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT. LETTERS SHALL COMPLY WITH TEMPLATE DETAIL UG-21.
  - ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS DETERMINED IN THE FIELD.
  - VALVES SHALL NOT BE PLACED IN HANDICAPPED RAMPS, CURBS, OR GUTTERS.
  - PRECAST CONCRETE PADS SHALL NOT BE USED.
  - ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2".
  - PIPELINE DIRECTION TO BE IMPRESSED INTO NEWLY POURED CONCRETE PAD.
  - TRACER WIRE TEST STATION BOX IS NOT REQUIRED IN VALVE BOX PAD IF THE GATE VALVE IS LOCATED WITHIN 200 FEET OF A WATER SERVICE, BLOW-OFF, BACKFLOW PREVENTER OR FIRE HYDRANT THAT HAS A TRACER WIRE BOX.
  - SHOULD THE TRACER WIRE TEST STATION BOX CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
  - WHERE TRACER WIRE TEST STATION BOX CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
  - WHERE TRACER WIRE TEST STATION BOX CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
  - USE NON-TRAFFIC RATED BOXES, WHERE VALVE WILL BE IN STREET OR PARKING UNDER VEHICLE TRAFFIC, USE TRAFFIC RATED BOXES, WHERE POSSIBLE. LOCATE TRACER WIRE TESTING STATION OUTSIDE OF TRAVEL LANE OR IN MEDIAN, CENTERED IN SEPARATE CONCRETE PAD SIMILAR TO STANDARD VALVE BOX PAD.
  - THE BRASS TAG SHALL HAVE A "PLANT VALVE ID#" WHEN VALVES ARE INSTALLED WITHIN THE COUNTY TREATMENT PLANT LIMITS. THE PLANT VALVE ID# SHALL BE SHOWN ON THE CONSTRUCTION PLANS AND RECORD DRAWINGS.
  - REFER TO SECTION 1.11 GATE VALVES IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.

<b>MANATEE COUNTY</b> PUBLIC WORKS DEPARTMENT		GATE VALVE, BOX, LID AND TAG	UW-2
REV. BY	DATE		
	SEPT 12, 2023		
	DATE OF APPROVAL		



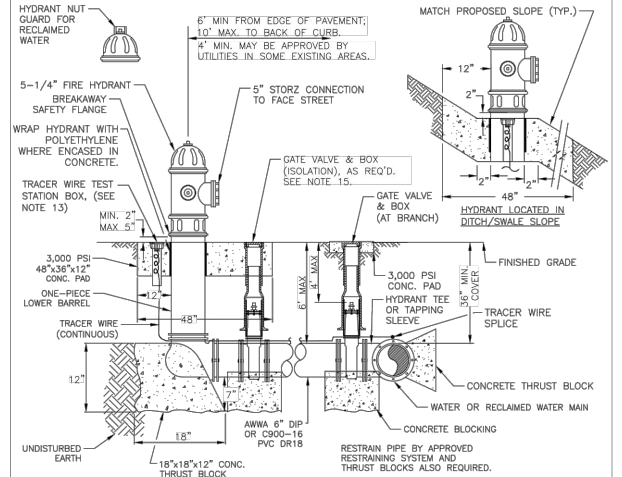
- NOTES:**
- PRIOR TO TAPPING, CONTRACTOR TO DEMONSTRATE 60 MINUTE HYDROSTATIC TEST OF THE TAPPING SLEEVE AND VALVE WITH NO LOSS OF 180 PSI PRESSURE FOR WATER AND RECLAIMED WATER.
  - ALL FITTINGS TO BE WRAPPED WITH 20 MIL POLYETHYLENE WRAP AT THRUST BLOCK.
  - ALL TAPS ON CONCRETE WATER MAINS AND LARGER THAN 12" ARE TO BE MADE BY A MANATEE COUNTY APPROVED TAPPING COMPANY. ALL MATERIALS TO BE SUPPLIED BY THE CONTRACTOR.
  - ALL TAPS MUST BE OF A SMALLER SIZE THAN THE MAIN BEING TAPPED & PLACED NO CLOSER THAN 30" OR A DISTANCE EQUAL TO (1) MAIN PIPE DIAMETER PLUS (2) TAP PIPE DIAMETERS (WHICHEVER IS GREATER) FROM A JOINT OR FITTING.
  - CONTRACTOR TO SUPPLY A DRY HOLE FOR TAPPING CREW TO WORK IN AND A BACK-HOE TO LOWER TAPPING MACHINE INTO THE HOLE.
  - WHERE THRUST BLOCK NOT USED, RESTRAINED JOINTS MUST THEN EXTEND FROM TEE FULL LENGTH SPECIFIED FOR "TEES."
  - TRACER WIRE TEST STATION BOX IS REQUIRED AT CONNECTIONS TO EXISTING MAINS.
  - SHOULD THE TRACER WIRE TEST STATION BOX CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
  - SEE SECTION 1.11 TAPPING SLEEVES AND VALVES IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.
  - "W" OR "RW" SHALL BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB (OR ROUTED INTO EXISTING CONCRETE CURB USING AN APPROVED TEMPLATE) AND INSTALL AN ALUMINUM BLUE DISC WITH "W" OR ALUMINUM PURPLE DISC WITH "RW" AND THE FOOTAGE FROM THE DISC TO THE VALVE USING A 1/8" x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT. LETTERS SHALL COMPLY WITH TEMPLATE DETAIL UG-21.

<b>MANATEE COUNTY</b> PUBLIC WORKS DEPARTMENT		TAPPING SLEEVE AND VALVE (WATER/RECLAIM)	UW-3
REV. BY	DATE		
	SEPT 12, 2023		
	DATE OF APPROVAL		



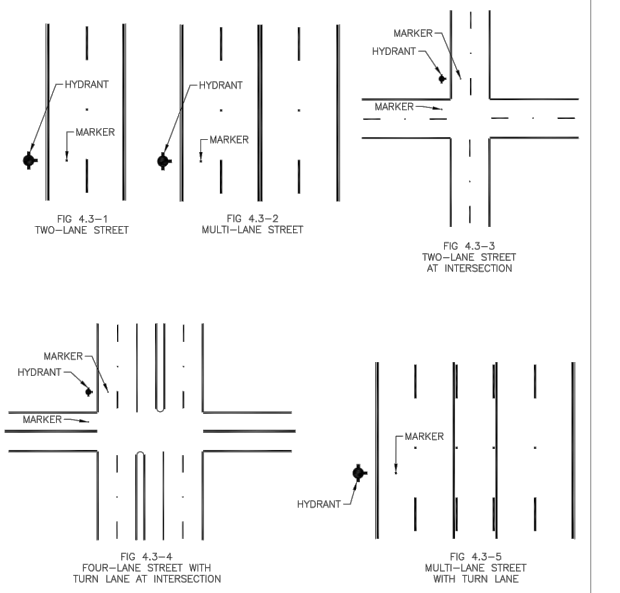
- NOTES:**
- ALL FITTINGS TO BE WRAPPED WITH 20 MIL POLYETHYLENE WRAP AT THRUST BLOCK.
  - TRACER WIRE TEST STATION BOX IS REQUIRED AT CONNECTIONS TO EXISTING MAINS.
  - SHOULD THE TRACER WIRE TEST STATION BOX CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
  - WATER VALVES SHALL BE INSTALLED ON ALL SIDES OF TEES AND CROSSINGS, UNLESS INLINE VALVES ON THAT LEG WITHIN 200 FEET.
  - RESTRAINED JOINTS MUST EXTEND FROM TEE FULL LENGTH SPECIFIED FOR VALVES.
  - SPACER IS REQUIRED IF A GAP EXISTS. SPACER NOT TO EXCEED OVER 30% OF SLEEVE WIDTH.
  - IN ASBESTOS CONCRETE PIPE (AC) APPLICATIONS TWO COUPLINGS ARE REQUIRED. ALL FITTINGS INCLUDING COUPLINGS SHALL BE SUPPORTED WITH CONCRETE BLOCKING TO PREVENT SETTLEMENT.
  - ALL EXISTING RESTRAINING SHALL BE MODIFIED AND OR RE-INSTATED AS NECESSARY, TO MEET THE RESTRAINED REQUIREMENT FOR VALVES.
  - WHERE THRUST BLOCK NOT USED, RESTRAINED JOINTS MUST THEN EXTEND FROM TEE FULL LENGTH SPECIFIED FOR "TEES."

<b>MANATEE COUNTY</b> PUBLIC WORKS DEPARTMENT		CUT-IN TEE	UW-4
REV. BY	DATE		
	SEPT 12, 2023		
	DATE OF APPROVAL		



- NOTES:**
- WEEPHOLES SHALL BE EXCLUDED FROM THE FIRE HYDRANT.
  - FIRE HYDRANTS SHALL BE A MINIMUM OF 6" OFF EDGE OF PAVEMENT AND 10" MAX. FROM BACK OF CURB. WHERE POSSIBLE AND WHERE SIDEWALK IS TO BE INSTALLED, FIRE HYDRANT SHALL BE LOCATED BETWEEN SIDEWALK AND RIGHT-OF-WAY LINE. THE STRAIGHT PORT SHALL BE A MIN. OF 1 INCH FROM THE EDGE OF SIDEWALK.
  - HYDRANT SHALL BE DUCTILE IRON CONSTRUCTION. HYDRANTS SHALL BE FUSION BONDED EPOXY COATED SAFETY YELLOW FOR WATER, PURPLE (PANTONE 522C) FOR RECLAIMED WATER, AND RED FOR PRIVATE.
  - FIRE HYDRANTS SHALL BE PLACED SO THAT STORM WATER FLOWS AWAY FROM THE HYDRANT.
  - FIRE HYDRANTS SHALL BE CONSTRUCTED WITH "GROUND LINE" SET TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NORMAL BURY FOR ALL WATER LINES.
  - FIRE HYDRANTS MAY BE CONSTRUCTED WITH "GRADELOCK" OFFSET FITTING.
  - RAISED REFLECTIVE PAVEMENT MARKER(S) (BLUE/BLEU) FOR POTABLE WATER (PURPLE/PURPLE) FOR RECLAIMED WATER SHALL BE INSTALLED AT THE CENTERLINE OF PAVEMENT INLINE WITH EACH HYDRANT; TWO MARKERS REQUIRED IF HYDRANT IS AT AN INTERSECTION CORNER.
  - ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1/2" CHAMFER.
  - FIRE HYDRANT VALVE SHALL BE FASTENED DIRECTLY TO TEE.
  - HYDRANTS SHALL BE LOCATED ON SAME SIDE OF ROAD AS WATER OR RECLAIMED MAIN.
  - THERE MUST BE A CLEARANCE OF 7 1/2 FEET FROM FRONT AND BOTH SIDES, AND FOUR FEET TO THE REAR OF THE HYDRANT, TO ABOVE GRADE OBSTRUCTIONS INCLUDING POSTS, FENCES, TREES, ETC. PER THE FLORIDA FIRE PREVENTION CODE.
  - SEE STANDARD DETAIL UW-2 GATE VALVE, BOX, LID AND TAG.
  - SHOULD THE FIRE HYDRANT'S CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
  - IF A HYDRANT IS LOCATED ON THE SLOPE OF A DITCH OR SLEAVE, THE CONCRETE PAD SHALL CONFORM TO THE FINISH GRADE/SLOPE. THE CONCRETE PAD SHALL BE LEVEL 2-INCHES BEHIND & IN FRONT OF THE HYDRANT.
  - AT THE DISCRETION OF THE COUNTY AN ADDITIONAL ISOLATION GATE VALVE SHALL BE ADDED, WHEN A PHYSICAL BARRIER IS PRESENT, (I.E. ROADWAY, FENCE, WALL, BERM ETC.) BETWEEN THE BRANCH GATE VALVE AND THE HYDRANT.
  - SEE SECTION 1.11 HYDRANTS IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.

<b>MANATEE COUNTY</b> PUBLIC WORKS DEPARTMENT		FIRE HYDRANT ASSEMBLY	UW-5
REV. BY	DATE		
	SEPT 12, 2023		
	DATE OF APPROVAL		



- NOTES:**
- ALL STREETS OR ROADS: MARKER SHOULD BE PLACED IN THE CENTER OF THE TRAVEL LANE CLOSEST TO THE FIRE HYDRANT. SEE FIGURE 4.3-1, 4.3-2, AND 4.3-3.
  - STREETS WITH LEFT TURN LANE AT INTERSECTION: MARKER SHOULD BE PLACED 6 INCHES FROM EDGE OF PAINTED WHITE CHANNELLING LINE OF THE SIDE NEAREST THE FIRE HYDRANT. SEE FIGURE 4.3-4.
  - STREETS WITH CONTINUOUS TWO-WAY TURN LANE: MARKER SHOULD BE PLACED 6 INCHES FROM THE EDGE OF THE PAINTED YELLOW BARRIER LINE ON THE SIDE NEAREST THE FIRE HYDRANT. SEE FIGURE 4.3-5.
  - MARKER SHALL BE BLUE/BLUE RAISED RETROREFLECTIVE PAVEMENT MARKER.

<b>MANATEE COUNTY</b> PUBLIC WORKS DEPARTMENT		HYDRANT LOCATION MARKERS - BLUE (RPMs)	UW-6
REV. BY	DATE		
	SEPT 12, 2023		
	DATE OF APPROVAL		

DATE	DESCRIPTION	DATE	BY
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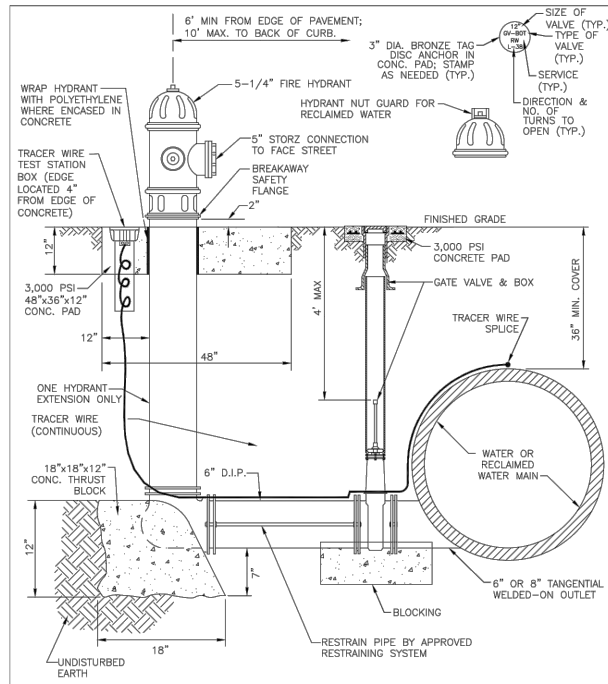
KRISTINA CONNELLY, P.E.  
P.E. LICENSE NUMBER 54805  
1412 JACKSON ST., SUITE 3  
FORT MYERS, FLORIDA, 33901



11TH AVE W AND 75TH ST W  
RECLAIMED WATER MAIN IMPROVEMENTS  
**STANDARD UTILITY DETAILS**

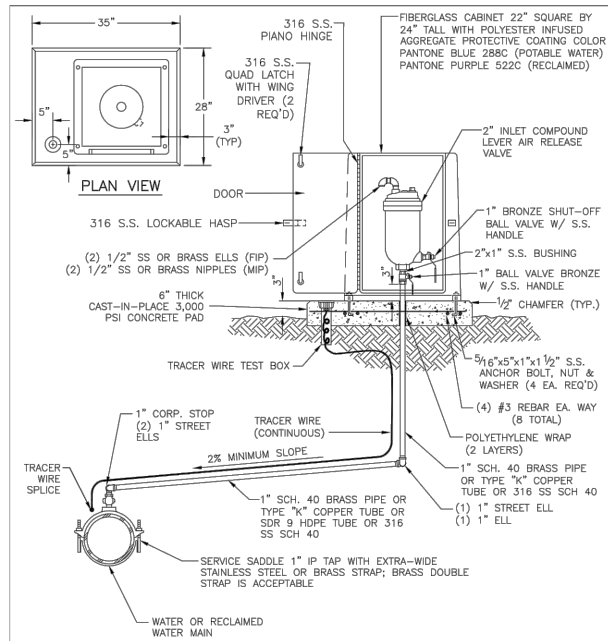
SHEET NO.  
U-27

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



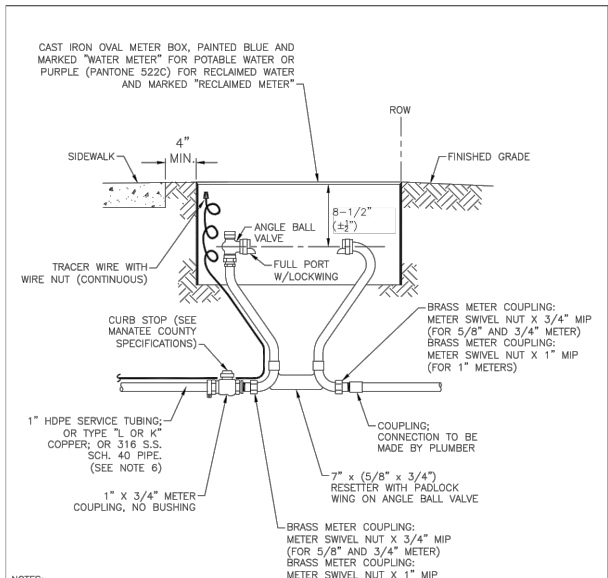
- NOTES:**
1. FIRE HYDRANT BLOW-OFF ASSEMBLY TO COMPLY WITH NOTES 1-16 OF DETAIL UW-5 FIRE HYDRANT ASSEMBLY DETAIL.
  2. TYPICAL LOCATION FOR TANGENTIAL OUTLET IS AT LOW POINT ALONG THE MAIN WHERE SEDIMENTS ACCUMULATE.
  3. SEE UW-2 GATE VALVE, BOX, LID AND TAG DETAIL.
  4. BRASS TAG SHALL INDICATE FEED IS FROM THE BOTTOM OF THE MAIN, "B.O.T." (BLOW-OFF TANGENT)

<b>MANATEE COUNTY</b> PUBLIC WORKS DEPARTMENT		<b>FIRE HYDRANT BLOW-OFF ASSEMBLY FOR 12" MAINS AND LARGER</b>		<b>UW-9</b>
REV. BY	DATE	SEPT 12, 2023	DATE OF APPROVAL	



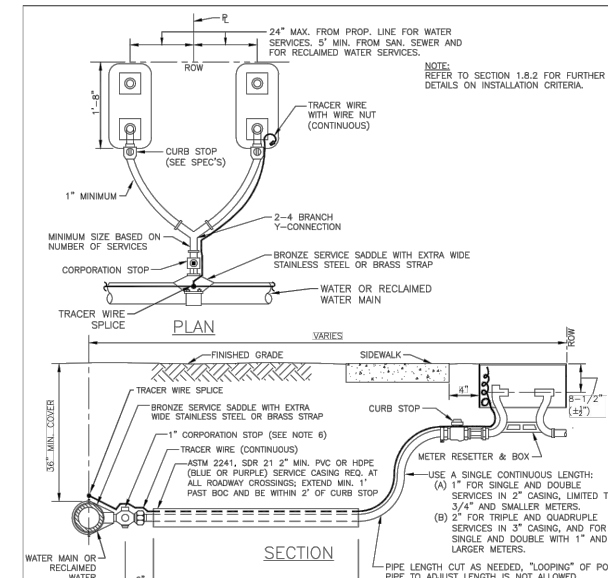
- NOTES:**
1. AIR RELEASE VALVES TO BE INSTALLED AT HIGH POINTS ALONG THE CONSTRUCTED MAINS, WHERE AIR COULD BE TRAPPED.
  2. AIR VENT ORIFICE TO BE SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION FOR WATER MAIN SIZE.
  3. ALL INCIDENTAL FITTINGS AND HARDWARE TO BE STAINLESS STEEL, BRASS OR COPPER.
  4. ALL PIPE THREADS TO BE SEALED AIR TIGHT.
  5. VENT PIPE TO BE LAID ACCURATELY ON SLOPE, WITHOUT HIGH OR LOW POINTS.
  6. ARV SHALL BE INSTALLED MINIMUM 6 FT FROM EDGE OF PAVEMENT; 10 FT MAXIMUM FROM BACK OF CURB; 4 FT MIN. MAY BE APPROVED BY UTILITIES IN SOME EXISTING AREAS.

<b>MANATEE COUNTY</b> PUBLIC WORKS DEPARTMENT		<b>ABOVE-GROUND AIR RELEASE VALVE ASSY. FOR 12-INCH AND SMALLER WATER MAINS</b>		<b>UW-10</b>
REV. BY	DATE	SEPT 12, 2023	DATE OF APPROVAL	



- NOTES:**
1. METER BOX AND RESETER ARE TO BE INSTALLED BY THE INFRASTRUCTURE CONTRACTOR AND SHALL NOT BE SET IN DRAINAGE SWALES, SIDEWALKS OR DRIVEWAYS. WITH PRIOR APPROVAL BY COUNTY, METER BOXES WITH LOCKABLE LIDS MAY BE LOCATED IN SIDEWALKS.
  2. THE METER RESETER SHALL BE INSTALLED IN SUCH A MANNER AS TO ALLOW REMOVAL AND REPLACEMENT WITHOUT DISTURBING THE STRUCTURAL INTEGRITY OF THE PIPING SYSTEM, THE SHUTOFF VALVES, OR THE RESETER.
  3. FOR COMPLETE SERVICE CONNECTION ASSEMBLY, SEE DETAIL UW-23 TYPICAL SERVICE CONNECTION.
  4. WHEN THE DISTANCE BETWEEN THE EDGE OF THE SIDEWALK AND THE R/W IS ONE FOOT (CUL-DE-SAC W/ MEDIAN) A 10-FOOT-WIDE PUBLIC UTILITY EASEMENT SHALL BE LOCATED IN THE FRONT OF THE LOTS, ADJACENT TO THE ROW.
  5. 3" MINIMUM CLEARANCE FROM LANDSCAPING PLANTS AND 10' MIN. CLEARANCE FROM TREES TO EDGE OF METER. CLEAR ACCESS OPENING TO STREET.
  6. SERVICE TUBING SHALL NOT BE CRIMPED OR KINKED TO RE-ADJUST CURB STOP LOCATION.
  7. "W" OR "R" SHALL BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB (OR ROUTED INTO EXISTING CONCRETE CURB USING AN APPROVED TEMPLATE) AND INSTALL AN ALUMINUM BLUE DISC WITH "W" OR ALUMINUM PURPLE DISC WITH "R" AND THE FOOTAGE FROM THE DISC TO THE METER BOX USING A 1/8" x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT. LETTERS SHALL COMPLY WITH TEMPLATE DETAIL UW-21.

<b>MANATEE COUNTY</b> PUBLIC WORKS DEPARTMENT		<b>METER BOX ASSEMBLY FOR 5/8" X 3/4"; 3/4"; AND 1" METERS</b>		<b>UW-20</b>
REV. BY	DATE	SEPT 12, 2023	DATE OF APPROVAL	



- NOTES:**
1. ALL SERVICE TAPS TO BE LOCATED IN THE FIELD. TAPS SHALL BE NO CLOSER THAN 2'-0" STAGGERED INTERVALS OR WITHIN 2'-0" FROM BELL OR SPIGOT ENDS.
  2. METER BOXES & RESETTERS ARE TO BE INSTALLED BY THE INFRASTRUCTURE CONTRACTOR AND SHALL NOT BE SET IN DRAINAGE SWALES, SIDEWALKS OR DRIVEWAYS. WITH PRIOR APPROVAL BY COUNTY, METER BOXES WITH LOCKABLE LIDS MAY BE LOCATED IN SIDEWALKS.
  3. "W" OR "R" SHALL BE IMPRESSED INTO THE NEWLY POURED CONCRETE CURB (OR ROUTED INTO EXISTING CONCRETE CURB USING AN APPROVED TEMPLATE) AND INSTALL AN ALUMINUM BLUE DISC WITH "W" OR ALUMINUM PURPLE DISC WITH "R" AND THE FOOTAGE FROM THE DISC TO THE METER USING A 1/8" x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT. LETTER SHALL COMPLY WITH TEMPLATE DETAIL UW-21.
  4. COLOR CODED TRACER WIRE SHALL BE INSTALLED WITH WATER AND RECLAIMED MAIN AND ALL SERVICES. SERVICE WIRE SHALL BE CONNECTED TO THE TRACER WIRE ALONG THE MAIN. ON DOUBLE SERVICES, WHEN SECOND METER IS OVER 8 FT APART, TWO TRACER WIRES SHALL BE INSTALLED, ONE FOR EACH METER.
  5. WATER AND RECLAIMED WATER SERVICE LINES TO BE 5" MINIMUM FROM SEWER SERVICE PIPES.
  6. FOR 2" SERVICES, REPLACE CORPORATION STOP WITH A 2" RESILIENT WEDGE FIP GATE VALVE W/BOX, LID & TAG.
  7. WHEN THE DISTANCE BETWEEN THE EDGE OF THE SIDEWALK AND THE ROW IS ONE FOOT (CUL-DE-SAC W/MEDIAN) A 10-FOOT-WIDE PUBLIC UTILITY EASEMENT SHALL BE LOCATED IN THE FRONT OF THE LOTS, ADJACENT TO THE ROW.
  8. TEMPORARY RESIDENTIAL USE CAN BE PROVIDED BY CONTACTING THE UTILITY CUSTOMER SERVICE. SEE DETAIL UW-21.
  9. SERVICE TUBING SHALL NOT BE CRIMPED OR KINKED TO RE-ADJUST CURB STOP LOCATION.

<b>MANATEE COUNTY</b> PUBLIC WORKS DEPARTMENT		<b>TYPICAL SERVICE CONNECTION</b>		<b>UW-23</b>
REV. BY	DATE	SEPT 12, 2023	DATE OF APPROVAL	

DATE	DESCRIPTION	DATE	BY
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KRISTINA CONNELLY, P.E.  
P.E. LICENSE NUMBER 54805  
1412 JACKSON ST., SUITE 3  
FORT MYERS, FLORIDA, 33901



**MANATEE COUNTY**  
**PUBLIC WORKS**  
COUNTY PROJECT NO:  
6002294

11TH AVE W AND 76TH ST W  
RECLAIMED WATER MAIN IMPROVEMENTS  
**STANDARD UTILITY DETAILS**

SHEET NO.  
**U-28**

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

**SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS**

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	NET LENGTH		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.					P	F	P	F		
0520 2 4A	CONCRETE CURB	501+54.85	to 501+64.85	RT	406F48A	LF	10.0		96			
		501+55.80	to 501+64.78	LT	406F489		9.0					
		501+94.57	to 502+10.45	LT	406F58A		15.9					
		506+09.49	to 506+12.89	RT	406F486		10.0					
		506+46.83	to 506+56.80	RT	406F487		16.7					
		519+67.17	to 519+77.17	LT	406F48C		10.0					
		519+67.64	to 519+77.64	RT	406F48D		10.0					
		523+02.35	to 523+02.58	RT	406F485		14.9					

**SUMMARY OF PERMANENT DRIVEWAYS**

LOCATION STA. @ C OF DRIVEWAY	SIDE	AREA ID	MATERIAL		DESIGN NOTES	CONSTRUCTION REMARKS
			6" CONCRETE (SY)			
			P	F		
	RT	406F4D1	25.01			
	RT	406F4D8	25.44			
	RT	406F4DF	30.72			
	RT	406F4E6	34.50			
	RT	406F4ED	32.84			
	RT	406F4F4	40.95		Pebbles	
	RT	406F4FB	8.00		Sidewalk	
	RT	406F502	34.27		Painted	
	RT	406F509	21.75			
	RT	406F510	27.86			
	RT	406F517	25.31			
	RT	406F51E	28.12			
	RT	406F525	25.74			
	RT	406F52C	37.16			
	RT	406F533	31.99			
	RT	406F53A	26.96			
	RT	406F541	38.61		Painted	
	RT	406F548	44.85		Painted	
	RT	406F54F	37.05		Painted	
	RT	406F556	29.12			
	RT	406F55D	38.28		Painted	
	RT	406F564	25.59			
	RT	406F56B	24.42			
	RT	406F574	33.92			
	RT	406F57B	24.61			
TOTAL:			753			

**SUMMARY OF MAILBOXES RELOCATION**

STATION	SIDE	QUANTITY (EA)		DESIGN NOTES	CONSTRUCTION REMARKS
		0110 7			
		P	F		
514+44.69	Rt	1			
515+18.68	Rt	1			
516+41.12	Rt	1			
516+43.41	Rt	1			
517+64.43	Rt	1			
518+74.54	Rt	1			
519+21.82	Rt	1			
520+04.44	Rt	1			
520+47.73	Rt	1			
521+40.08	Rt	1			
TOTAL:		10			

**SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES**

LOCATION STA. TO STA.	SIDE	AREA ID	INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
			0104 18			
			EA			
			P	F		
509+91.28 to 509+98.28	LT	406EEAE	1			
506+11.76 to 506+18.37	RT	406EEB0	1			
506+45.18 to 506+54.85	RT	406EEB1	1			
506+51.07 to 506+72.81	LT	406EEAF	1			
519+51.13 to 519+60.30	LT	406EEB2	1			
519+52.79 to 519+62.42	RT	406EEB3	1			
522+85.25 to 522+99.25	LT	406EEB4	1			
522+86.40 to 523+02.11	RT	406EEB6	1			
523+26.16 to 523+27.31	LT	406EEB5	1			
523+26.66 to 523+29.84	RT	406EEB7	1			
SUB-TOTAL:			10			
TOTAL:			10			

**SUMMARY OF PAVEMENT**

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.					P	F	P	F		
327 70	PAVEMENT RESTORATION	501+54.78	to 501+64.84	LT/RT	406F4AB	SY	25.21		134.3			
		506+10.49	to 506+57.11	RT	406F4B2		42.77					
		519+67.19	to 519+77.62	LT/RT	406F4B9		27.02					
		523+03.50	to 523+27.67	RT	406F4C0		39.29					

DATE	DESCRIPTION	DATE	BY
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KRISTINA CONNELLY, P.E.  
P.E. LICENSE NUMBER 54805  
1412 JACKSON ST., SUITE 3  
FORT MYERS, FLORIDA, 33901



MANATEE COUNTY  
PUBLIC WORKS  
COUNTY PROJECT NO:  
6002294

11TH AVE W AND 75TH ST W  
RECLAIMED WATER MAIN IMPROVEMENTS  
**SUMMARY OF QUANTITIES**

SHEET NO.  
SQ-1