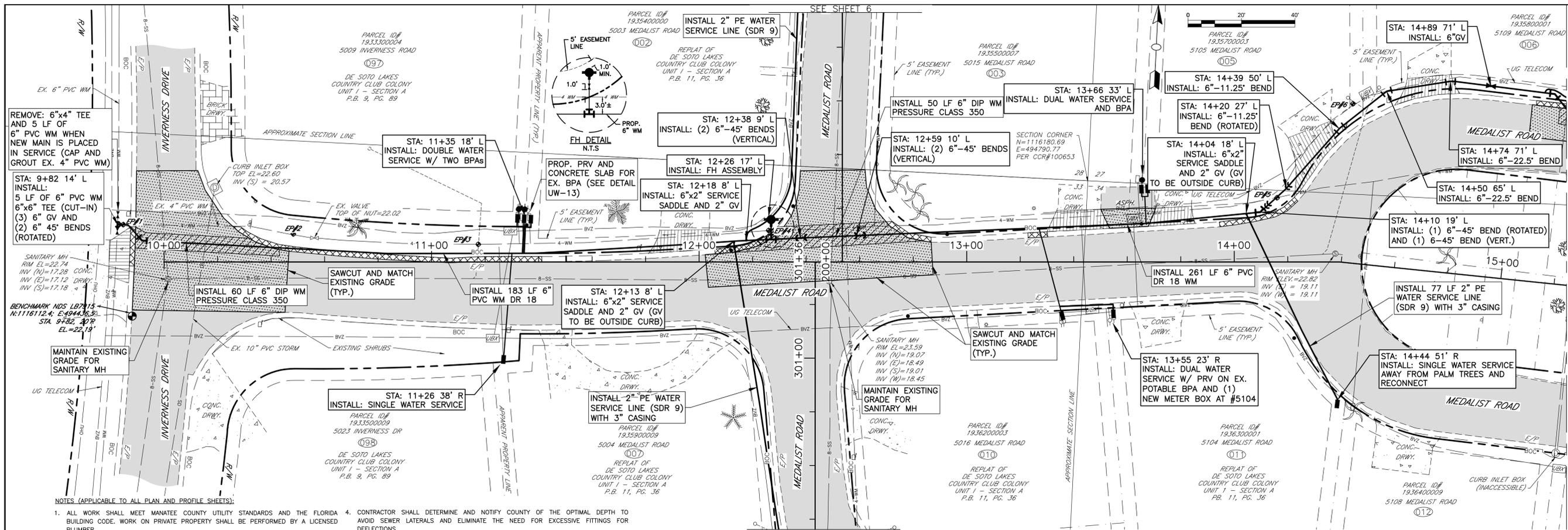


**MEDALIST ROAD WM REPLACEMENT
MANATEE COUNTY, FLORIDA
MEDALIST ROAD STA 10+00 TO 15+00**



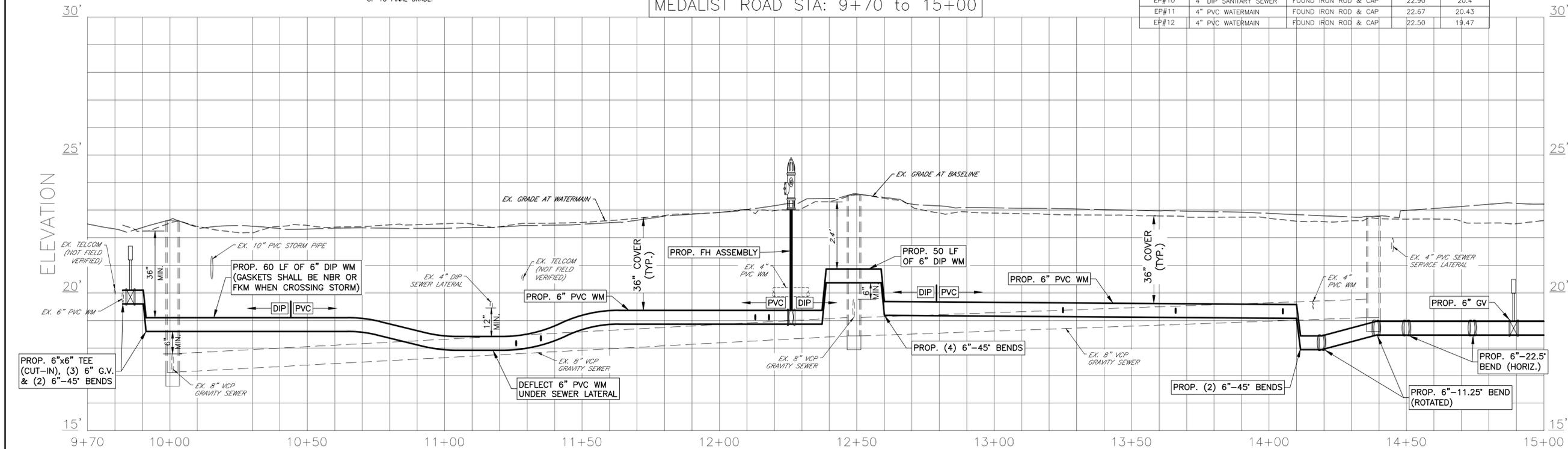
NOTES (APPLICABLE TO ALL PLAN AND PROFILE SHEETS):

- ALL WORK SHALL MEET MANATEE COUNTY UTILITY STANDARDS AND THE FLORIDA BUILDING CODE. WORK ON PRIVATE PROPERTY SHALL BE PERFORMED BY A LICENSED PLUMBER.
- CONTRACTOR SHALL COORDINATE ALL WATER SERVICE LINE INSTALLATIONS WITH THE UTILITY DEPARTMENT (JAMES LEE 941-792-8811 x5055) PRIOR TO INSTALLATION. THE CONTRACTOR SHALL INSTALL 3/4-INCH REDUCE PRESSURE BACKFLOW PREVENTION ASSEMBLIES (BPAs) (WILKINS 975XL2 OR APOLLO VALVE RPL44A) WITH VACUUM BREAKERS ON ALL EXTERIOR HOSE BIBBS, UNLESS OTHERWISE NOTED. THE CALLOUTS NOTED WITH (DC) SHALL HAVE A 3/4-INCH DOUBLE CHECK BPA INSTALLED. WILKINS 950XL2 OR APOLLO VALVE DCLF4A. THE CONTRACTOR MAY NEED TO COORDINATE WITH THE PRIVATE PROPERTY OWNER.
- LOCATION OF SEWER SERVICE LATERALS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATION BOTH HORIZONTALLY AND VERTICALLY. WITH COUNTY APPROVAL, THE WATER MAIN MAY BE ADJUSTED AS NECESSARY TO AVOID CONFLICTS. DAMAGE CAUSED TO SEWER LATERALS DURING INSTALLATION OF WATER MAIN BY NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE. 6-INCH MIN. VERTICAL CLEARANCE IS REQUIRED FROM THE WATER MAIN.
- CONTRACTOR SHALL DETERMINE AND NOTIFY COUNTY OF THE OPTIMAL DEPTH TO AVOID SEWER LATERALS AND ELIMINATE THE NEED FOR EXCESSIVE FITTINGS FOR DEFLECTIONS.
- WATER SERVICE TAPS SHALL NOT BE LOCATED UNDER DRIVEWAYS OR CURBS.
- INSTALLATION OF THE PROPOSED PIPE SHALL BE AS SHOWN IN THE PLAN AND PROFILE VIEWS. THE DEPTH OF BURY OR TOP OF PIPE ELEVATION ARE TO BE AS INDICATED BY THE ELEVATION GRID, UNLESS OTHERWISE STATED ON THE PLANS BY ELEVATION CALLOUTS OR SPOT GRADES. IT IS EXPECTED THE INSTALLATION OF THE PIPE OR APPURTENANCES SHALL MATCH THE ELEVATIONS SHOWN IN THE CONSTRUCTION PLANS.
- ALL NECESSARY DEVIATIONS BEYOND THE ACCEPTED TOLERANCES WILL NOT BE ACCEPTED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE COUNTY.
- INSTALLATION VERTICAL AND HORIZONTAL TOLERANCES SHALL BE AS STATED IN THE SPECIFICATION DOCUMENT, SECTION 02617, 1.01.J. PIPE PLACED OUT OF TOLERANCE IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO COST TO THE COUNTY.
- ANY SANITARY SEWER MANHOLE AND/OR CLEANOUT DISTURBED SHALL BE BROUGHT UP TO FINAL GRADE.

AREA	RESTORATION
	BASE AND RESURFACE ASPHALT
	MILL & OVERLAY
	CURB RESTORATION
	CONCRETE DRIVEWAY RESTORATION

MEDALIST ROAD STA: 9+70 to 15+00

TEST HOLE DATA (ADVANCED TECHNOLOGICAL SYSTEMS, INC., JOB #20.PCL-249)				
EXCAVATION POINT	UTILITY	FIELD MARKING	GROUND EL (FEET)	TOP OF PIPE (FEET)
EP#1	4" PVC WATERMAIN	FOUND IRON ROD & CAP	22.34	19.94
EP#2	4" PVC WATERMAIN	FOUND IRON ROD & CAP	22.52	20.14
EP#3	4" DIP SANITARY SEWER	FOUND IRON ROD & CAP	23.28	19.42
EP#4	4" PVC WATERMAIN	FOUND IRON ROD & CAP	23.15	19.92
EP#5	4" PVC WATERMAIN	FOUND IRON ROD & CAP	22.66	19.74
EP#6	4" PVC SANITARY SEWER	FOUND IRON ROD & CAP	22.96	21.96
EP#7	6" SANITARY SEWER	FOUND IRON ROD & CAP	22.48	19.86
EP#8	4" PVC WATERMAIN	FOUND IRON ROD & CAP	22.47	19.07
EP#9	4" PVC WATERMAIN	FOUND IRON ROD & CAP	23.15	20.16
EP#10	4" DIP SANITARY SEWER	FOUND IRON ROD & CAP	22.90	20.4
EP#11	4" PVC WATERMAIN	FOUND IRON ROD & CAP	22.67	20.43
EP#12	4" PVC WATERMAIN	FOUND IRON ROD & CAP	22.50	19.47



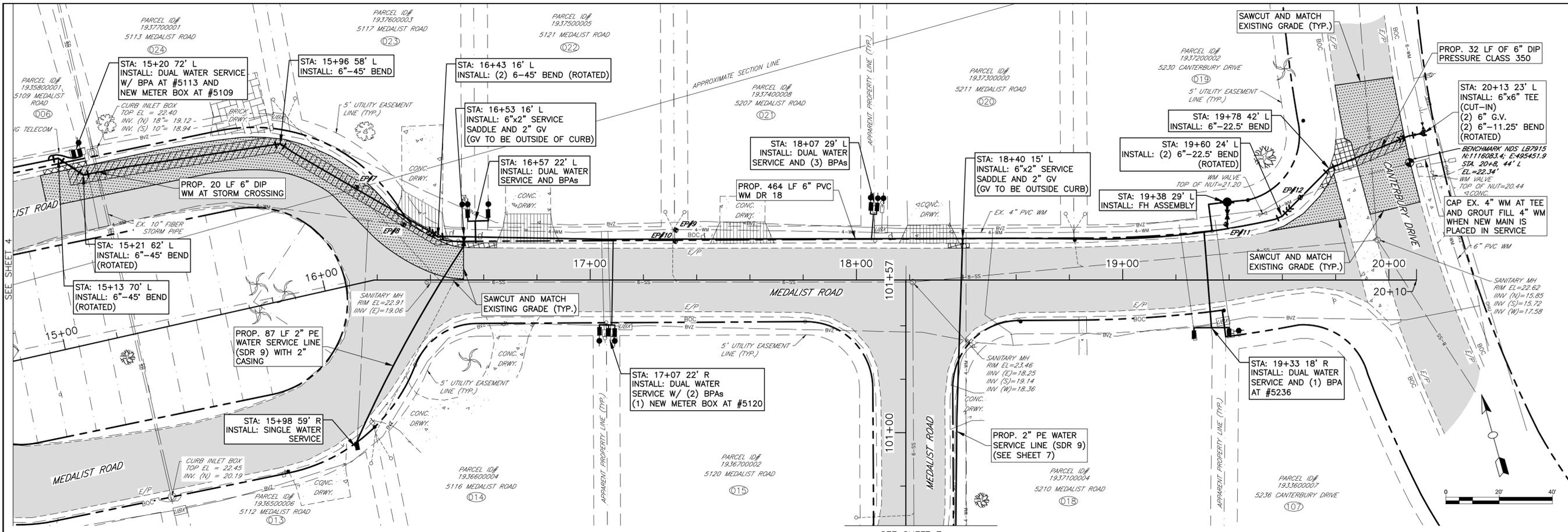
NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	5156170
SURVEY #	20-0163
SEC./TWN./RGE	27,33/35/18
SCALE	SEE PLAN
BY DATE	
SURVEYED TDP	04-29-20
DESIGNED LD	08-11-20
DRAWN LD	08-11-20
CHECKED LD	08-11-20

LORENZO MARTINEZ	
FLORIDA P.E. # 17925	
No. 79285	
STATE OF FLORIDA	
Professional Engineer	

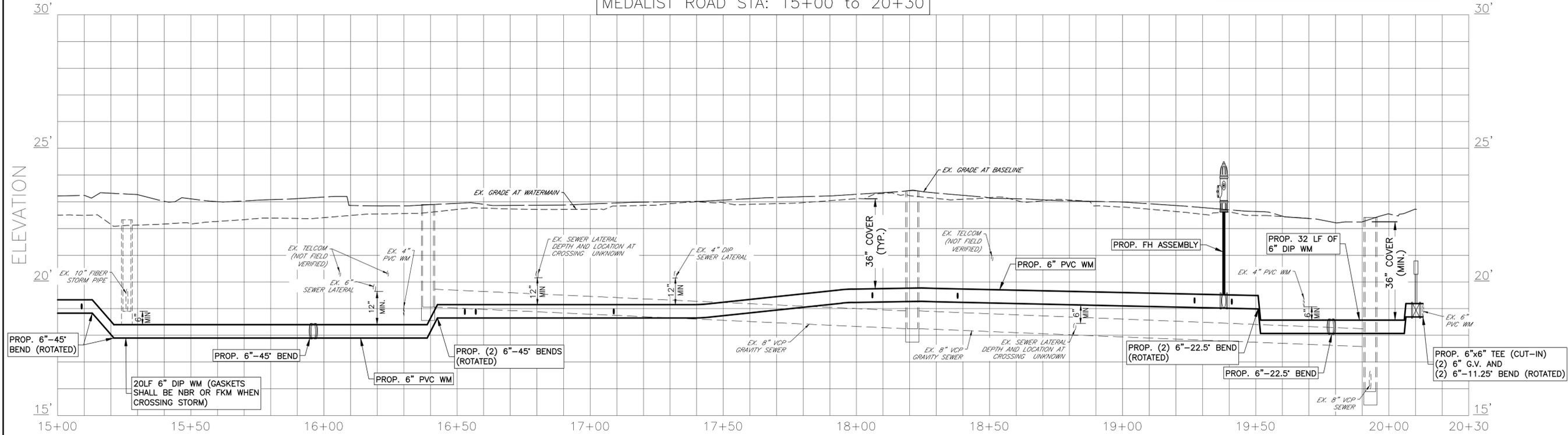
SHEET 4 OF 13

**MEDALIST ROAD WM REPLACEMENT
MANATEE COUNTY, FLORIDA
MEDALIST ROAD STA 15+00 TO 20+10**



AREA	RESTORATION
	BASE AND RESURFACE ASPHALT
	MILL & OVERLAY
	CURB RESTORATION
	CONCRETE DRIVEWAY RESTORATION

MEDALIST ROAD STA: 15+00 to 20+30

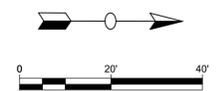
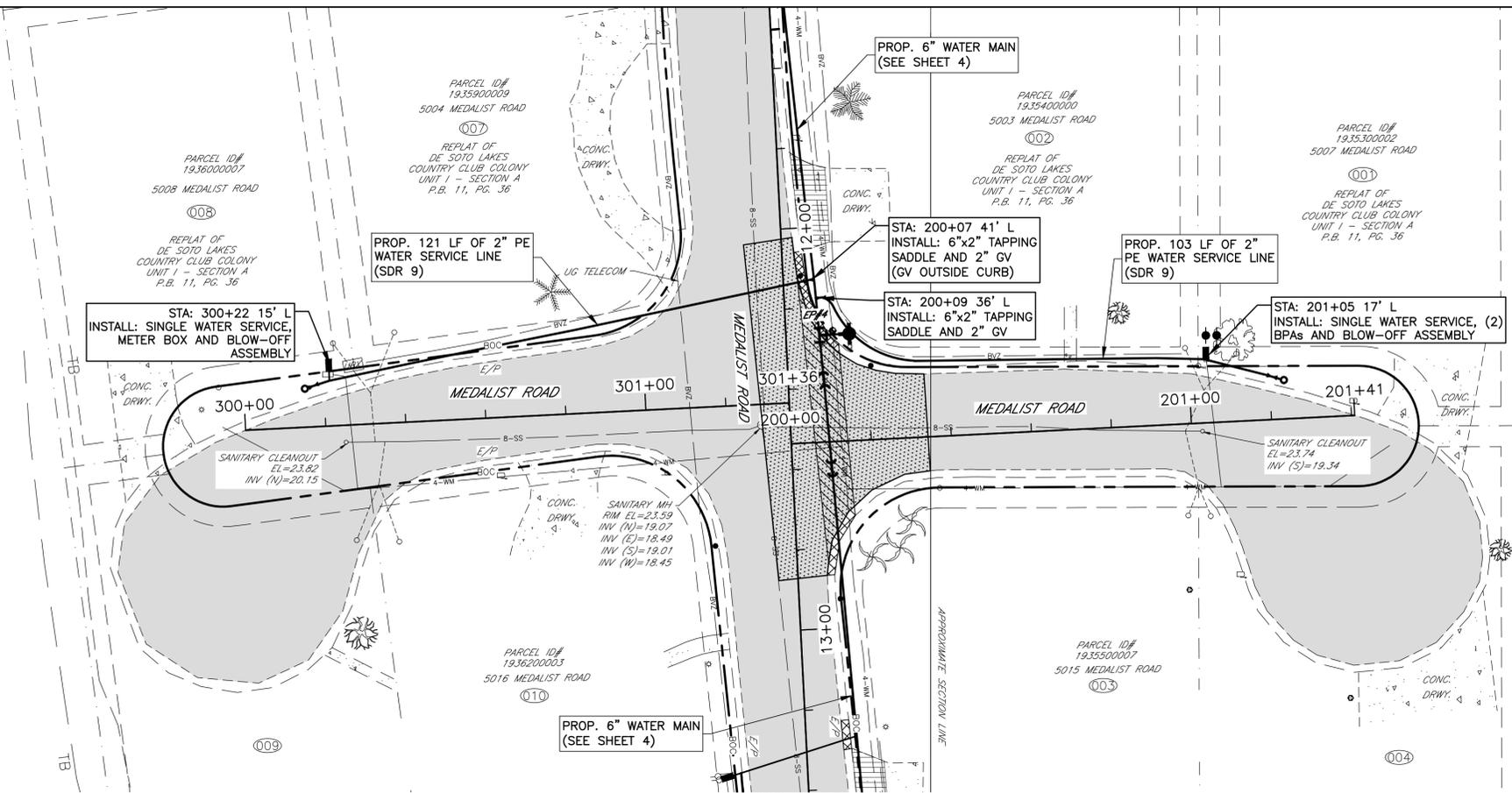


NO.	DATE	REVISION DESCRIPTION

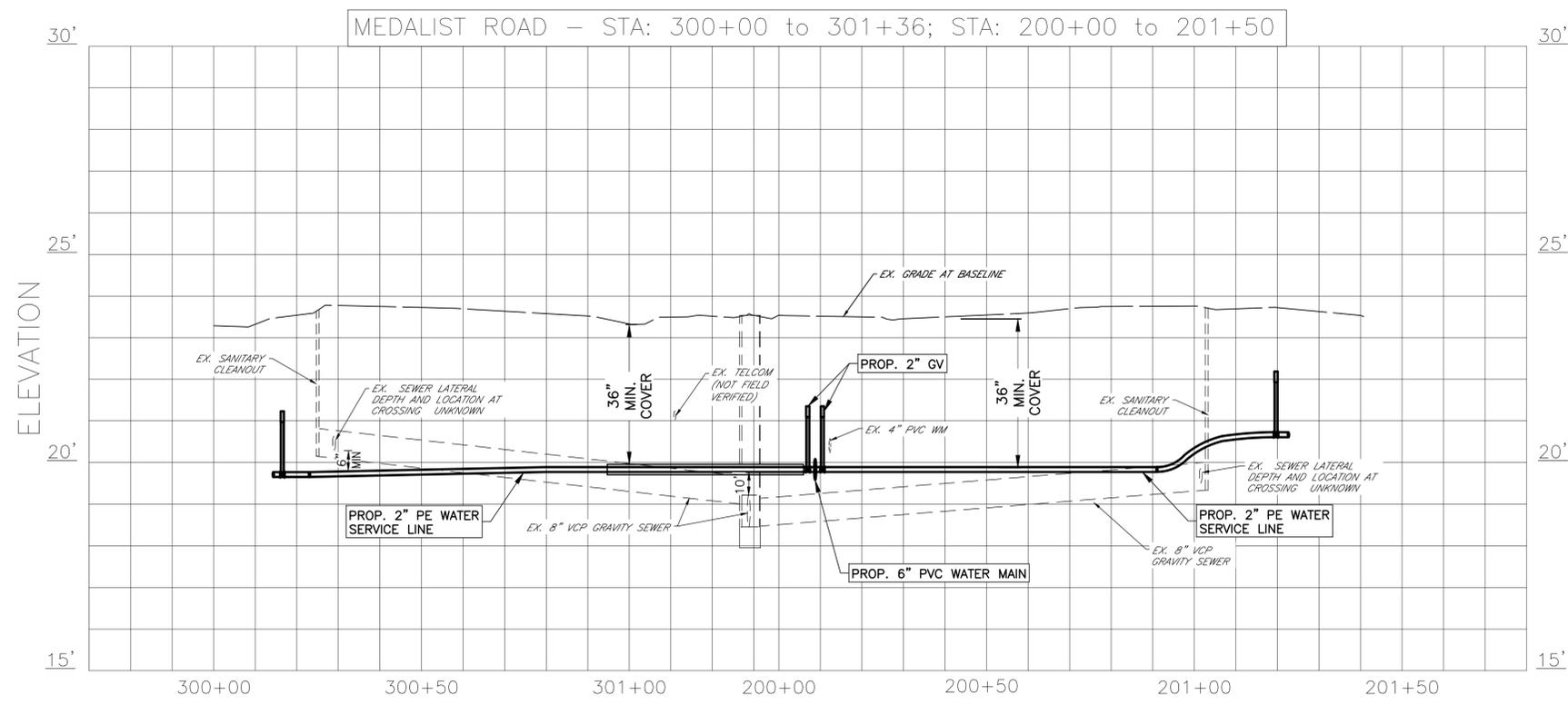
PROJECT #	5156170
SURVEY #	20-0163
SEC./TWN./RGE	27.33/35/18
SCALE	SEE PLAN
SURVEYED BY	TDP
DESIGNED BY	LD
DRAWN BY	LD
CHECKED BY	LD
DATE	04-29-20
DATE	08-11-20
DATE	08-11-20
DATE	08-11-20

LORENZO MARTINEZ
FLORIDA LICENSE # 19375
No. 79285
STATE OF FLORIDA
Professional Engineer

**MEDALIST ROAD WM REPLACEMENT
MANATEE COUNTY, FLORIDA
MEDALIST ROAD STA 300+00 & STA 200+00**



AREA	RESTORATION
	BASE AND RESURFACE ASPHALT
	MILL & OVERLAY
	CURB RESTORATION
	CONCRETE DRIVEWAY RESTORATION

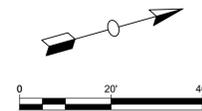
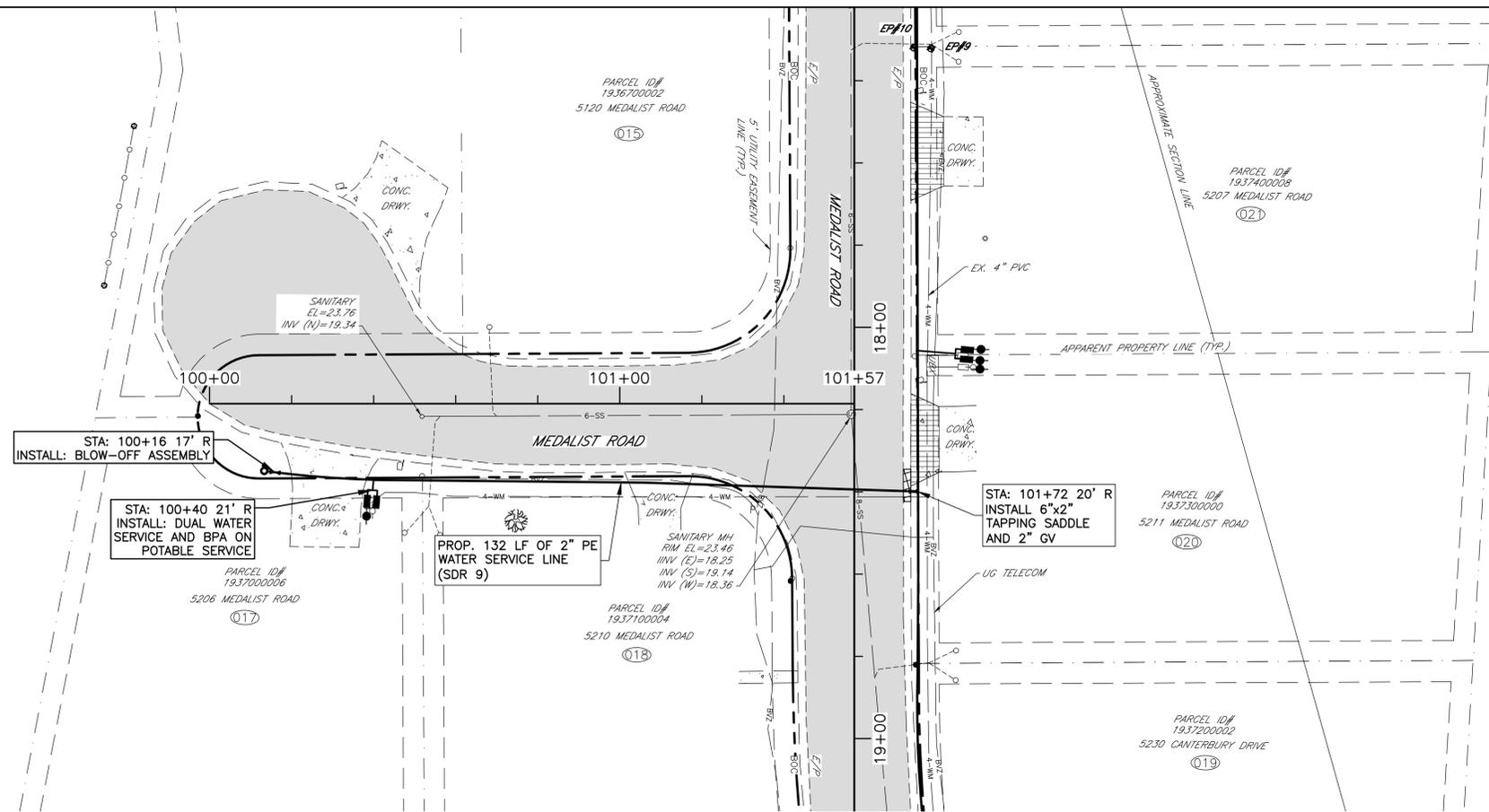


NO.	REVISION DESCRIPTION	BY	DATE

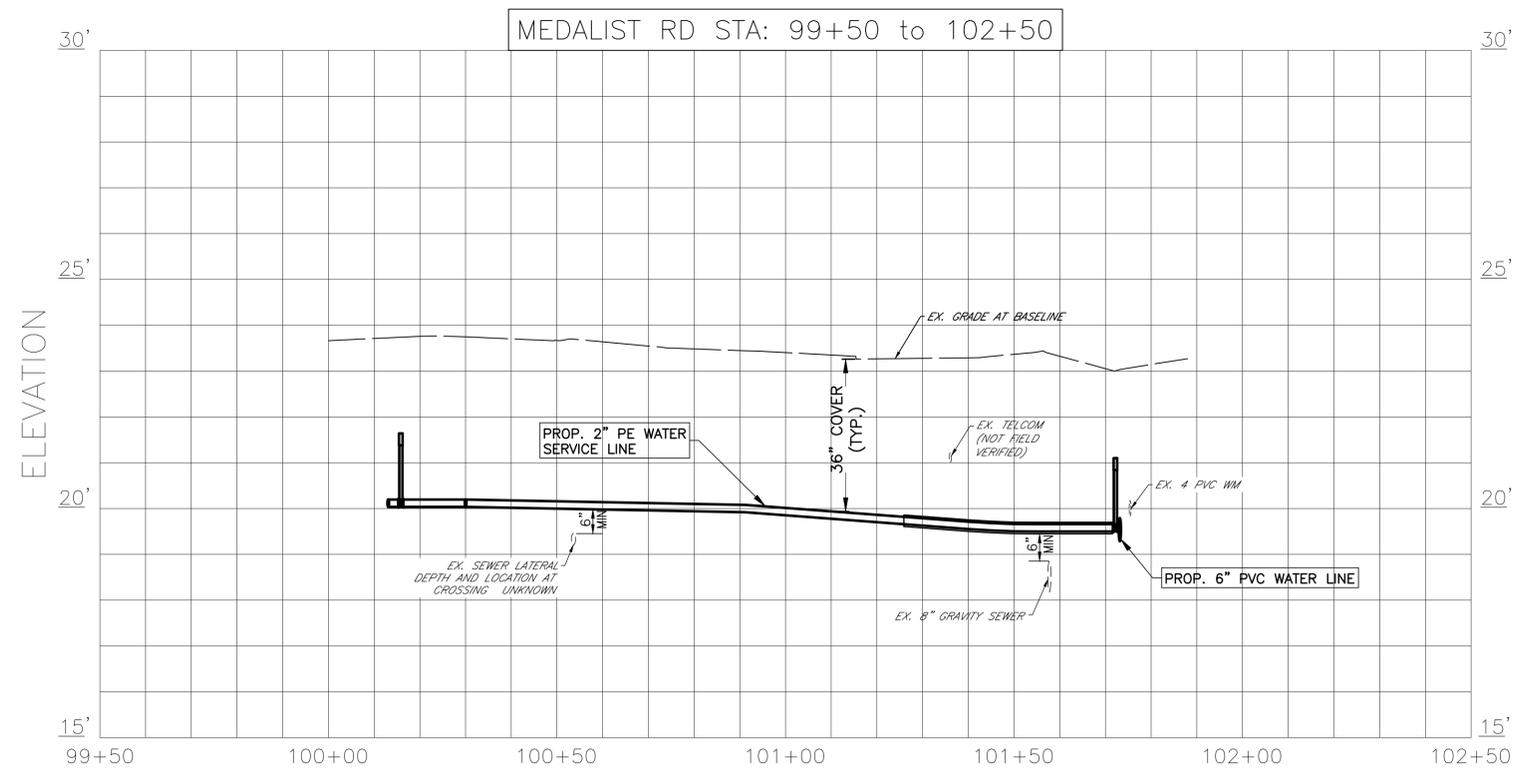
PROJECT #	5156170
SURVEY #	20-0163
SEC./TWN./RGE	27,33/35/18
SCALE	SEE PLAN
SURVEYED	BY TDP DATE 04-29-20
DESIGNED	LD 08-11-20
DRAWN	LD 08-11-20
CHECKED	LD 08-11-20

LORENZO MARTINEZ
REGISTERED PROFESSIONAL ENGINEER
FLORIDA P.E. # 79285
No. 79285
STATE OF FLORIDA
Professional Engineer

**MEDALIST ROAD WM REPLACEMENT
MANATEE COUNTY, FLORIDA
MEDALIST ROAD STA 100+00 TO 101+57**

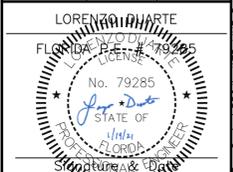


AREA	RESTORATION
	BASE AND RESURFACE ASPHALT
	MILL & OVERLAY
	CURB RESTORATION
	CONCRETE DRIVEWAY RESTORATION



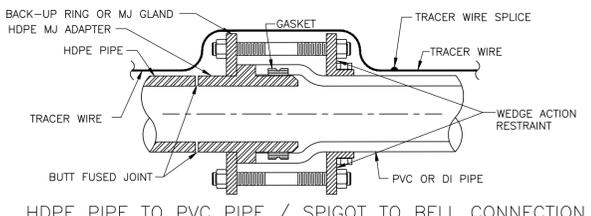
NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	5156170
SURVEY #	20-0163
SEC./TWN./RGE	27,33/35/18
SCALE	SEE PLAN
SURVEYED	BY TDP DATE 04-29-20
DESIGNED	LD 08-11-20
DRAWN	LD 08-11-20
CHECKED	LD 08-11-20

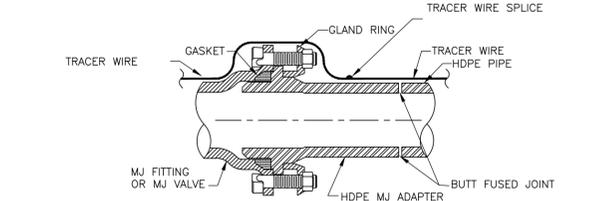


P:\Users\leng\Documents\2020\2020-0163\2020-0163-Medalist Road\WMS\1-Medalist Road\WMS\1-Medalist Road STA 100+00 TO 101+57.dwg, 11/15/2021, 3:21 PM, Lorenzo Duarte, P.E., ANSI Full Sheet D (34.000 x 22.000 inches), MC-2018-516

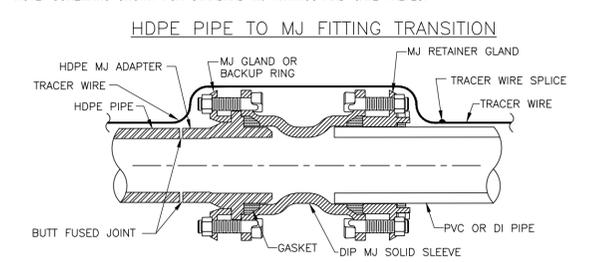
**MEDALIST ROAD WM REPLACEMENT
MANATEE COUNTY, FLORIDA
DETAILS**



HDPE PIPE TO PVC PIPE / SPIGOT TO BELL CONNECTION



HDPE PIPE TO MJ FITTING TRANSITION

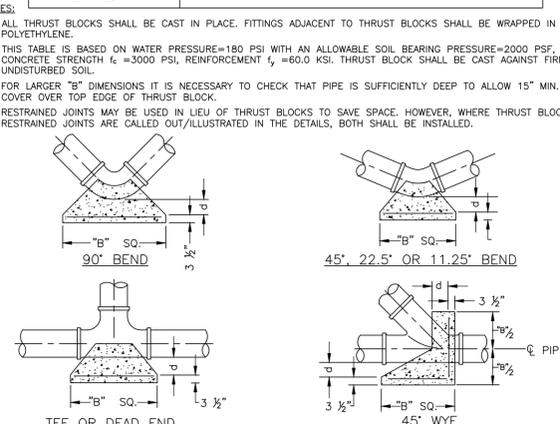


HDPE PIPE TO PVC PIPE SPIGOT TO SPIGOT CONNECTION

NOTE: SCHEMATIC SHOWN FOR STANDARD MJ FITTINGS AND GATE VALVES.
NOTE: ONE TRACER WIRE SHALL BE SECURED TO THE PIPE FOR ALL TYPES OF PIPELINE INSTALLATIONS.

THRUST BLOCK DIMENSIONS B ft. x d inches

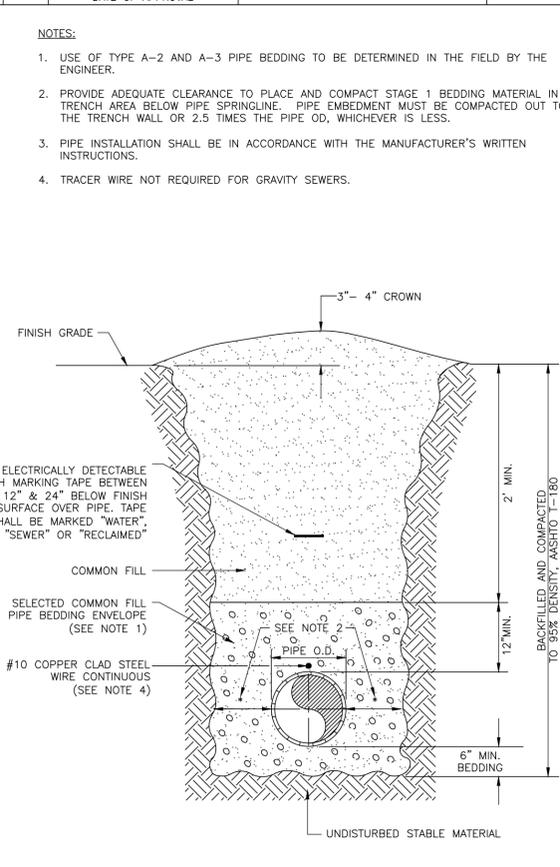
PIPE SIZE (IN.)	90° BEND		45° BEND		22.5° BEND		11.25° BEND		DEAD END & TEE		45° WYE	
	B	d	B	d	B	d	B	d	B	d	B	d
4	1.5	3 1/2	1.1	3 1/2	0.8	3 1/2	0.6	3 1/2	1.3	3 1/2	1.1	3 1/2
6	2.2	5 1/4	1.6	3 3/4	1.2	3 1/2	0.8	3 1/2	1.9	4 1/2	1.6	3 3/4
8	2.9	7	2.1	5	1.5	3 1/2	1.1	3 1/2	2.4	5 3/4	2.0	4 3/4
10	3.5	8 1/2	2.6	6 1/4	1.9	4 1/2	1.3	3 1/2	3.0	7 1/4	2.5	6
12	4.2	10	3.1	7 1/2	2.2	5 1/4	1.6	3 1/2	3.5	8 1/4	3.0	7 1/4
14	4.9	11 3/4	3.6	8 3/4	2.6	6 1/4	1.8	4 1/4	4.1	9 3/4	3.4	8 1/4
16	5.5	13 1/4	4.1	9 3/4	2.9	7	2.1	5	4.7	11 1/4	3.9	9 1/4
18	6.2	15	4.6	11	3.3	8	2.3	5 1/2	5.2	12 1/2	4.4	10 1/2
20	6.9	16 1/2	5.0	12	3.6	8 3/4	2.6	6 1/4	5.8	14	4.9	11 3/4
24	8.2	19 3/4	6.0	14 1/2	4.3	10 1/4	3.1	7 1/2	6.9	16 1/2	5.8	14
30	10.1	24 1/4	7.5	18	5.3	12 3/4	3.8	9	8.5	20 1/2	7.2	17 1/4
36	12.1	29	8.9	21 1/4	6.4	15 1/4	4.5	10 3/4	10.2	24 1/2	8.6	20 3/4



MANATEE COUNTY PUBLIC WORKS DEPARTMENT

CONCRETE THRUST BLOCKS UG-7

REV. BY: DATE: February 25, 2020 DATE OF APPROVAL



MANATEE COUNTY PUBLIC WORKS DEPARTMENT

TRENCH WITH UNIMPROVED SURFACE TYPE A-1 PIPE BEDDING UG-11

REV. BY: DATE: February 25, 2020 DATE OF APPROVAL

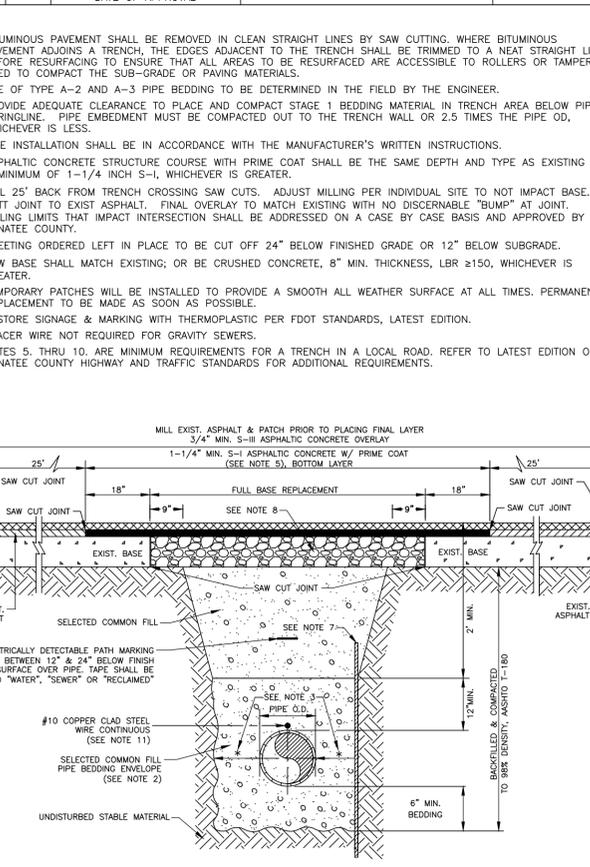
REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR C900-16 PVC PIPE (DR-18)

MAIN PIPE SIZE	HORIZ. BENDS			TEES			REDUCERS			PLUGS & VALVES
	90°	45°	22.5°	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	
24	90	38	18	X24	X20	X16	X12	X10	X8	214
20	78	32	16	X20	X16	X12	X10	X8	X6	184
16	66	27	13	X16	X12	X10	X8	X6	X4	151
12	52	22	10	X12	X10	X8	X6	X4	X3	118
10	44	18	9	X10	X8	X6	X4	X3	X2	100
8	37	15	7	X8	X6	X4	X3	X2	X1	83
6	29	12	6	X6	X4	X3	X2	X1	X0	63
4	21	8	4	X4	X3	X2	X1	X0	X0	45

MANATEE COUNTY PUBLIC WORKS DEPARTMENT

RESTRAINED LENGTHS FOR PVC PIPE UG-8

REV. BY: DATE: February 25, 2020 DATE OF APPROVAL



MANATEE COUNTY PUBLIC WORKS DEPARTMENT

TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING (CROSSING) UG-12

REV. BY: DATE: February 25, 2020 DATE OF APPROVAL

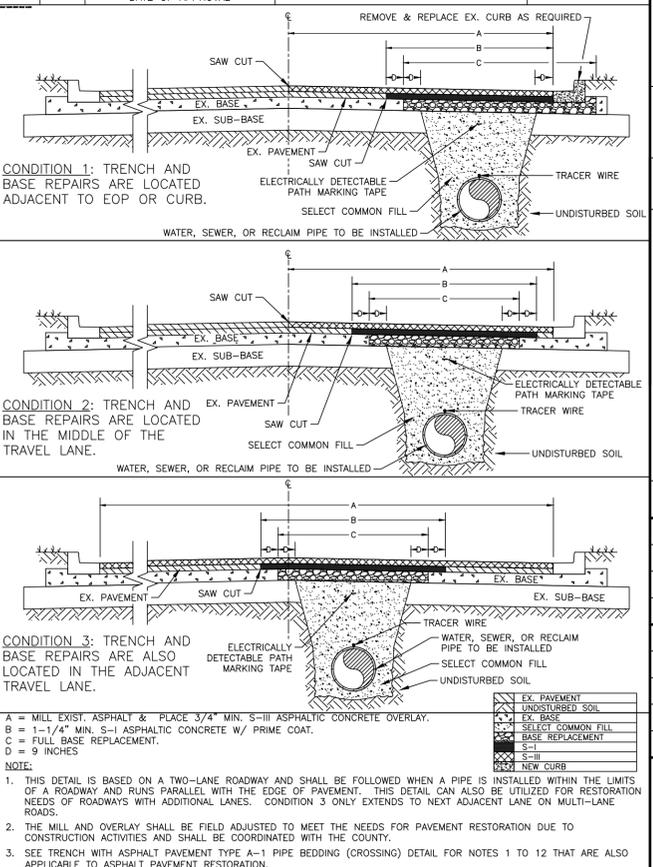
REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DIP (POLY-WRAPPED)

MAIN PIPE SIZE	HORIZ. BENDS			TEES			REDUCERS			PLUGS & VALVES
	90°	45°	22.5°	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	
36	142	59	28	X36	X30	X24	X20	X16	X12	453
30	124	51	25	X30	X24	X20	X16	X12	X10	391
24	106	44	21	X24	X20	X16	X12	X10	X8	327
20	92	38	18	X20	X16	X12	X10	X8	X6	280
16	77	32	15	X16	X12	X10	X8	X6	X4	231
12	61	25	12	X12	X10	X8	X6	X4	X3	181
10	52	22	10	X10	X8	X6	X4	X3	X2	153
8	44	18	9	X8	X6	X4	X3	X2	X1	128
6	34	14	7	X6	X4	X3	X2	X1	X0	98
4	24	10	5	X4	X3	X2	X1	X0	X0	69

MANATEE COUNTY PUBLIC WORKS DEPARTMENT

RESTRAINED LENGTHS FOR DIP UG-9

REV. BY: DATE: February 25, 2020 DATE OF APPROVAL



MANATEE COUNTY PUBLIC WORKS DEPARTMENT

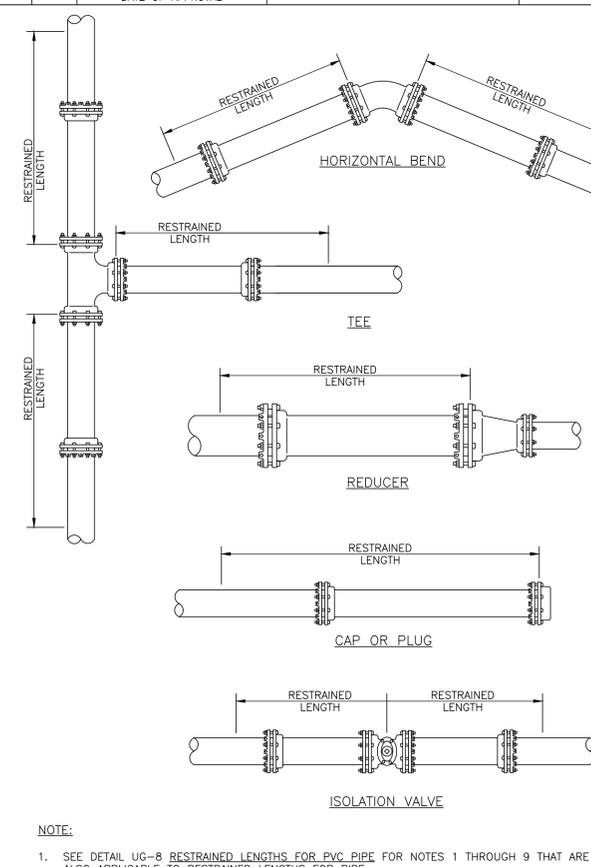
TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING (LONGITUDINAL) UG-12B

REV. BY: DATE: February 25, 2020 DATE OF APPROVAL

MANATEE COUNTY PUBLIC WORKS DEPARTMENT

HDPE TO PVC OR DI PIPE ADAPTER UG-6

REV. BY: DATE: February 25, 2020 DATE OF APPROVAL



MANATEE COUNTY PUBLIC WORKS DEPARTMENT

RESTRAINED LENGTHS FOR PIPE UG-10

REV. BY: DATE: February 25, 2020 DATE OF APPROVAL

NO.	REVISION DESCRIPTION	DATE

PROJECT # 5156170
SURVEY # 20-0163
SEC./TWN./RGE 27,28,33,34/35/1
SCALE SEE PLAN

SURVEYED	BY	DATE
DESIGNED	LD	08-11-20
DRAWN	LD	08-11-20
CHECKED	LD	08-11-20

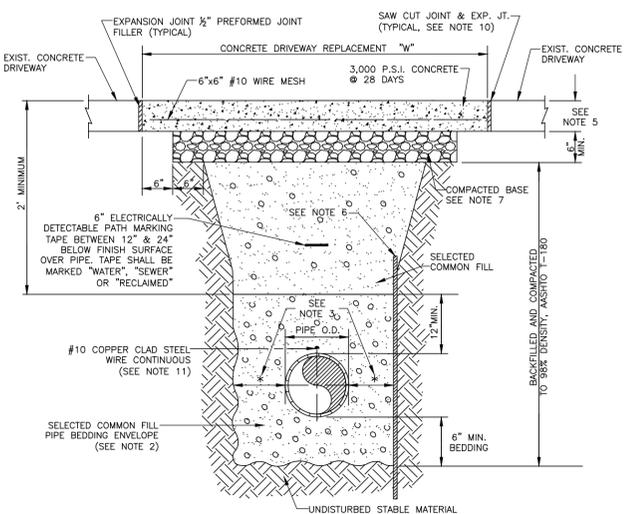
LORENZO DUARTE
FLORIDA REGISTERED PROFESSIONAL ENGINEER
No. 79285
Signature: [Signature] Date: [Date]

SHEET 8 OF 13

17/15/2021 3:16 PM Lorenzo Duarte, P.E., AISC Fall Breeze D (3400 x 2200 inches), MC-2016-2516

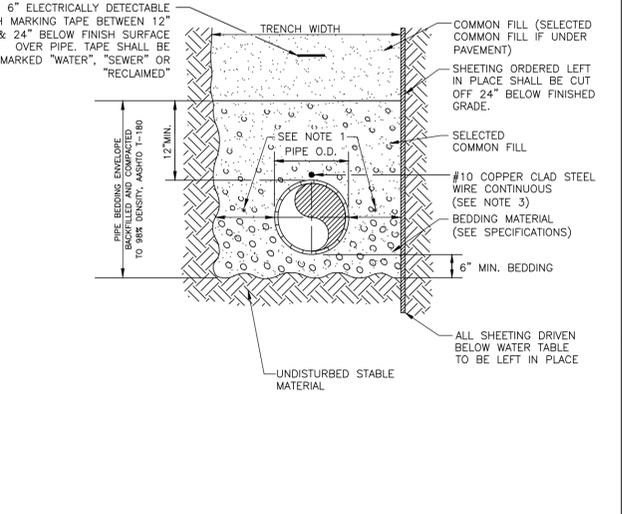
MEDALIST ROAD WM REPLACEMENT
MANATEE COUNTY, FLORIDA
DETAILS

- NOTES:
- CONCRETE PAVEMENT SHALL BE REMOVED WITH SAWS EDGES AND CUT AT A MINIMUM DEPTH OF ONE AND ONE-HALF (1-1/2"). IF A SAW CUT IN CONCRETE PAVEMENT FALLS WITHIN THREE FEET (3') OF A CONTRACTION JOINT, COLD JOINT, EXPANSION JOINT OR EDGE, THE CONCRETE SHALL BE REMOVED TO THE JOINT OR EDGE. THE REMOVAL OF EXISTING CONCRETE PAVEMENT ADJACENT TO TRENCHES WHICH HAD BEEN DAMAGED SUBSEQUENT TO SAW CUTTING OF PAVEMENT, SHALL BE SAW CUT TO NEAT STRAIGHT LINES FOR THE PURPOSE OF REMOVING THE DAMAGED PAVEMENT AREAS.
 - USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - 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 THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - THICKNESS TO MATCH EXISTING OR BE 6" MINIMUM, WHICHEVER IS GREATER.
 - SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISH GRADE OR 12" BELOW SUBGRADE.
 - BASE SHALL BE COMPACTED 6" MINIMUM THICKNESS OF APPROVED MATERIAL.
 - DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST ADOPTED CONSTRUCTION STANDARDS OF THE MANATEE COUNTY TRANSPORTATION DEPARTMENT.
 - IF THE DRIVEWAY IS 12' OR WIDER, SAWCUT AN EXPANSION JOINT ALONG THE CENTER OF THE DRIVEWAY (1/2" WIDE AND 1 1/2" DEEP) AFTER THE CONCRETE HAS SET.
 - IF THERE IS AN EXISTING EXPANSION JOINT WITHIN 3' OF THE PROPOSED JOINT, EXTEND DRIVEWAY REPLACEMENT TO THE EXISTING JOINT.
 - TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.

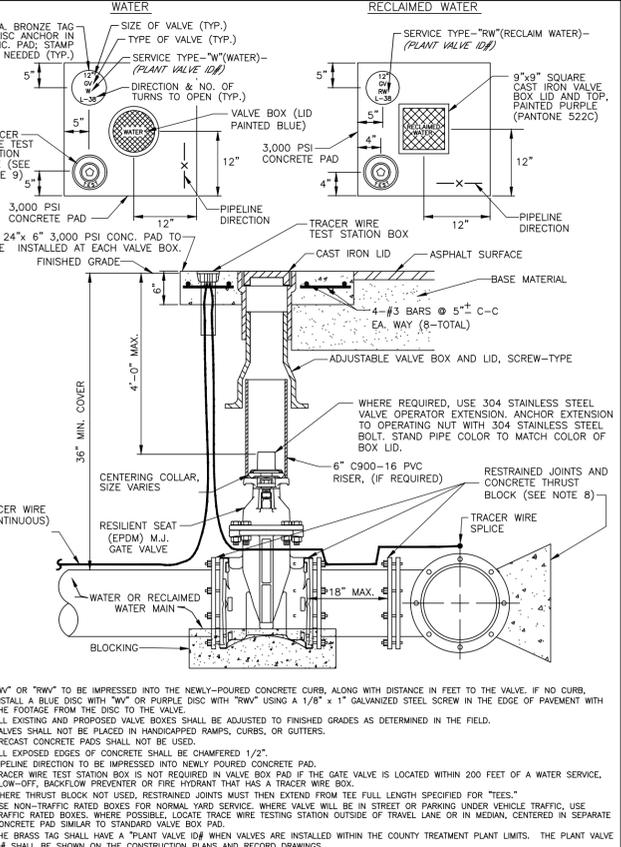


MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH CONCRETE DRIVEWAY SURFACE TYPE A-1 PIPE BEDDING	UG-14
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

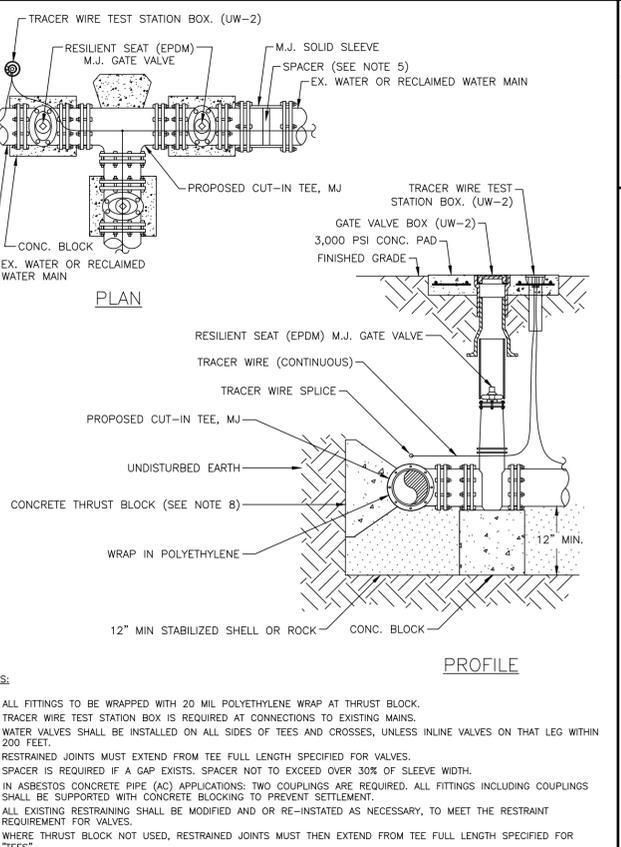
- NOTES:
- PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
 - PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



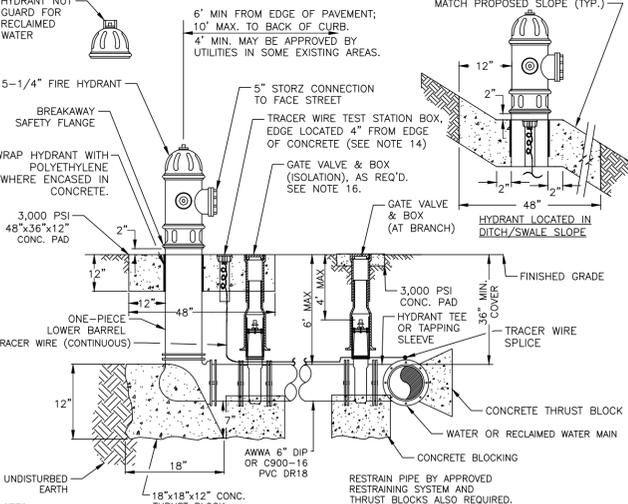
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH TYPE A-2 PIPE BEDDING	UG-15
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		GATE VALVE, BOX, LID AND TAG	UW-2
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

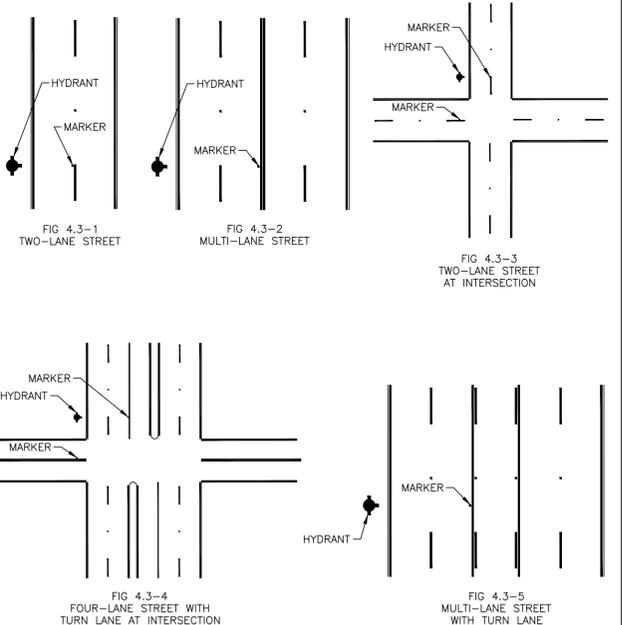


MANATEE COUNTY PUBLIC WORKS DEPARTMENT		CUT-IN TEE	UW-4
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



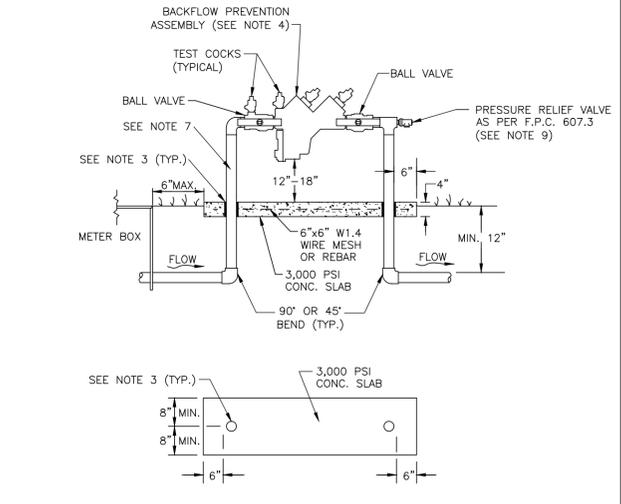
- NOTES:
- WEEPHOLES SHALL BE EXCLUDED FROM THE FIRE HYDRANT.
 - FIRE HYDRANTS SHALL BE A MINIMUM OF 6' OFF EDGE OF PAVEMENT AND 10' MAX. FROM BACK OF CURB, WHERE POSSIBLE AND WHERE SIDEWALK IS TO BE INSTALLED, FIRE HYDRANT SHALL BE LOCATED BETWEEN SIDEWALK AND RIGHT-OF-WAY.
 - HYDRANT SHALL BE DUCTILE 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 STORAGE 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 IS 3 FEET OF COVER FOR ALL WATER LINES.
 - FIRE HYDRANTS MAY BE CONSTRUCTED WITH "GRADELOK" OFFSET FITTING.
 - RAISED REFLECTIVE PAVEMENT MARKER(S) (BLUE) FOR POTABLE WATER (PURPLE) FOR RECLAIMED WATER SHALL BE INSTALLED ON THE PAVEMENT DIRECTLY ACROSS FROM THE HYDRANT IN ACCORDANCE WITH THE FDOT TRAFFIC ENGINEERING MANUAL, CHAPTER 4, SECTION 4.3 OR MOST CURRENT ADDITION.
 - ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1/2" CHAMFER.
 - FIRE HYDRANT VALVE SHALL BE FASTENED DIRECTLY TO TEE.
 - IN-LINE VALVES SHOULD BE LOCATED AT HYDRANT TEES.
 - 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 SWALE, 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.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		FIRE HYDRANT ASSEMBLY	UW-5
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



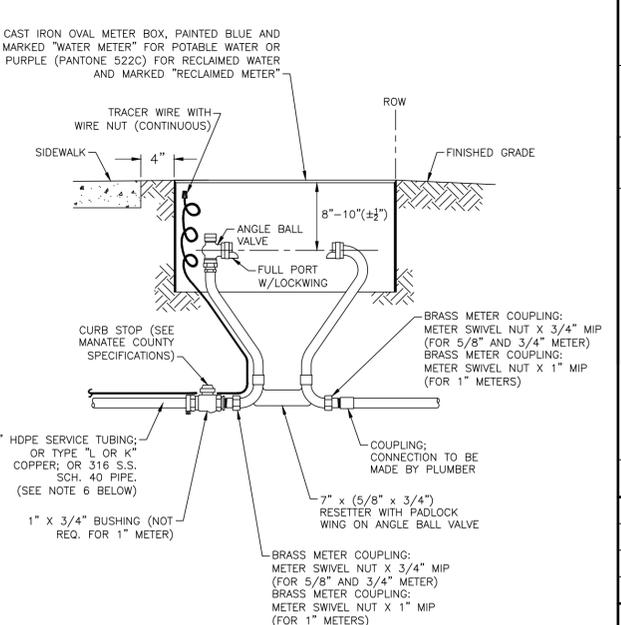
- NOTES:
- TWO-LANE STREETS OR ROADS: MARKER SHOULD BE PLACED 6 INCHES FROM EDGE OF PAINTED CENTERLINE ON THE SIDE NEAREST THE FIRE HYDRANT. IF THE STREET HAS NO CENTERLINE, THE MARKER SHOULD BE PLACED 6 INCHES FROM APPROXIMATE CENTER OF THE ROADWAY ON THE SIDE NEAREST THE HYDRANT. SEE FIGURE 4.3-1, 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 CHANNELIZING 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.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		HYDRANT LOCATION MARKERS - BLUE (RPMs)	UW-6
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



- NOTES:
- BACKFLOW PREVENTION ASSEMBLY MUST BE INSTALLED IMMEDIATELY DOWNSTREAM OF METER, AS SHOWN ABOVE.
 - COPPER PIPE TYPE "L" (OR "K") OR BRASS PIPE MINIMUM SCHEDULE 40 SHALL BE USED TO A MINIMUM DEPTH OF 12" BELOW GRADE.
 - PIPES PASSING THROUGH CONCRETE SLAB SHALL BE PROPERLY PROTECTED; POLYETHYLENE WRAPPED OR PVC SLEEVED. FITTINGS MUST NOT COME IN CONTACT WITH THE CONCRETE.
 - THE SYSTEM MUST MEET ALL REQUIREMENTS OF THE FLORIDA PLUMBING CODE (LATEST EDITION) AND CHAPTER 2-31, ARTICLE 4 OF THE MANATEE COUNTY CODE OF ORDINANCES.
 - ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2".
 - BACKFLOW PREVENTER SHALL BE TESTED AT THE TIME OF INSTALLATION.
 - PRESSURE REDUCING VALVE IS REQUIRED UPSTREAM OF BACKFLOW PREVENTION ASSEMBLY, IF SYSTEM PRESSURE EXCEEDS 80 PSI.
 - 3" MINIMUM CLEARANCE FROM LANDSCAPING PLANTS AND 10' MIN. CLEARANCE FROM TREES TO EDGE OF CONCRETE SLAB AND CLEAR OPENING FOR ACCESS FROM STREET.
 - IN ADDITION TO THE PRV, THE BUILDING DEPT. MAY REQUIRE AN APPROVED DEVICE FOR THERMAL EXPANSION CONTROL DOWNSTREAM OF THE ASSEMBLY.
 - FITTINGS AND CONNECTIONS FOR ABOVE-GROUND INSTALLATIONS SHALL NOT ALLOW ANY MOVEMENT OR ROTATION OF BACKFLOW PREVENTION ASSEMBLY.
 - REFER TO DETAIL US-15 WATER METER & BACKFLOW PREVENTER FOR LIFT STATIONS FOR WATER SERVICE AT SEWAGE PUMPING STATION.
 - BACKFLOW PREVENTION ASSEMBLIES USED FOR POTABLE APPLICATIONS SHALL BE LEAD FREE AS DEFINED IN THE REDUCTION OF LEAD IN DRINKING WATER ACT, SECTION 1417 OF THE SAFE DRINKING WATER ACT, 42 U.S.C. 3009-6, AS MAY BE AMENDED, AND IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS.

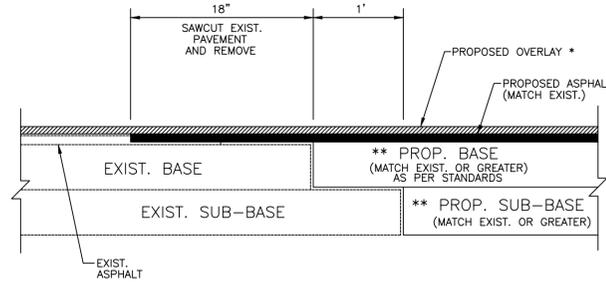
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		3/4" & 1" BACKFLOW PREVENTION ASSEMBLY	UW-13
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



- NOTES:
- METER BOX AND RESETTER 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.
 - THE METER RESETTER 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 RESETTER.
 - FOR COMPLETE SERVICE CONNECTION ASSEMBLY, SEE DETAIL UW-21 TYPICAL SERVICE CONNECTION.
 - 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.
 - 3" MINIMUM CLEARANCE FROM LANDSCAPING PLANTS AND 10' MIN. CLEARANCE FROM TREES TO EDGE OF METER, CLEAR ACCESS OPENING TO STREET.
 - SERVICE TUBING SHALL NOT BE CRIMPED OR KINKED TO RE-ADJUST CURB STOP LOCATION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		METER BOX ASSEMBLY FOR 5/8" X 3/4"; 3/4"; AND 1" METERS	UW-18
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

NO.	REVISION DESCRIPTION	BY	DATE
PROJECT #	5156170		
SURVEY #	20-0163		
SEC./TWN./RGE	27,28,33,34/35/1"		
SCALE	SEE PLAN		
	BY	DATE	
SURVEYED	TDP	04-29-20	
DESIGNED	LD	08-11-20	
DRAWN	LD	08-11-20	
CHECKED	LD	08-11-20	
LORENZO DUARTE			
FLORIDA REGISTERED PROFESSIONAL ENGINEER			
No. 79285			
STATE OF FLORIDA			
Signature and Date			
SHEET 9 OF 13			



- * NOTE: LIMITS OF OVERLAY - EDGE OF PAVEMENT TO EDGE OF PAVEMENT AND 25' BEYOND LIMITS OF CONSTRUCTION.
 - ** NOTE: CONNECTION TO OLDER (SUBSTANDARD THICKNESS) ROADS MAY REQUIRE THICKER PROPOSED BASE AND SUB-BASE TO MEET CURRENT STANDARDS.
- SIGNAGE AND MARKING PLAN SHALL ACCOMPANY CONSTRUCTION PLAN.

ROAD CONNECTION DETAIL
N.T.S.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		ROAD CONNECTION DETAIL	403.3
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

**MEDALIST ROAD WM REPLACEMENT
MANATEE COUNTY, FLORIDA
DETAILS**

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	5156170
SURVEY #	20-0163
SEC./TWN./RGE	27,28,33,34/35/1
SCALE	SEE PLAN
	BY DATE
SURVEYED	TDP 04-29-20
DESIGNED	LD 08-11-20
DRAWN	LD 08-11-20
CHECKED	LD 08-11-20

LORENZO DUARTE
FLORIDA PROFESSIONAL ENGINEER
No. 79285
STATE OF FLORIDA
Signature: [Signature] Date: [Date]

P:\Road Eng\403.3\Medalist\Road\WMSV\Medalist_Rd\WMSV_Medalist_Corridor.dwg, 11 DETAILS, 1/15/2021 3:17 PM Lorenzo Duarte, 111, ANSI Full sized D (34.00 x 22.00 inches), MC-201818

THIS PAGE IS COMPROMISED OF INFORMATION EXTRACTED FROM THE ORIGINAL TOPOGRAPHIC SURVEY. THAT SURVEY IS AVAILABLE UPON REQUEST.

Topographic Survey

BY PARK COASTAL SURVEYING, LLC.

of

In Section 27/28/33/34, Township 35 South, Range 16 East
Manatee County, Florida

DATA SOURCES

- ALL COORDINATES ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83) 2011 ADJUSTMENT FLORIDA WEST ZONE PER THE FLORIDA PERMANENT REFERENCE NETWORK (FPRN). ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 ALSO PER NGS BENCHMARKS LISTED BELOW. ALL VALUES ARE DECIMAL US SURVEY FEET COUNTRY.
- THE RIGHT-OF-WAY SHOWN IS PER PLAT (DESOTO LAKES COUNTRY CLUB COLONY, UNIT 1 - SECTION A (PLAT BOOK 9, PAGE 89 OF MANATEE COUNTY PUBLIC RECORDS) AND A REPLAT OF A PART OF DE SOTO LAKES CLUB COLONY, UNIT 1 - SECTION A (PLAT BOOK 11, PAGE 36 OF MANATEE COUNTY PUBLIC RECORDS) ROTATED TO FOUND MONUMENTATION. SEVERAL RECOVERED LOT MONUMENTS WERE FOUND TO BE OUT OF ALIGNMENT WITH THE PLAT LOCATION AS NOTED ON THE SURVEY.

SURVEY CONTROL POINTS

PRIMARY CONTROL		
ID	NORTHING	EASTING
"GOULDING" PID DQ8632	1115781.9070	493651.5340
"MOLENO" PID DQ8633	1114709.9220	495283.5600

SECONDARY CONTROL		
ID	NORTHING	EASTING
SND LB#7915	1116112.4060	494436.4980
SND LB#7915	1116157.7180	494893.9090
SND LB#7915	1116083.4160	495451.9110

SURVEYOR'S REPORT

By Park Coastal Surveying, LLC. April 2020

- BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON GRID NORTH OF THE NORTH AMERICAN DATUM OF 1983 (2011) FLORIDA WEST ZONE, AS PER THE FLORIDA PERMANENT REFERENCE NETWORK (FPRN).
- THIS IS NOT A BOUNDARY SURVEY AND SAID SURVEY IS SUBJECT TO PERTINENT EASEMENTS, RIGHTS OF WAY AND RESTRICTIONS OF RECORD, IF ANY.
- THE LOCATION OF UNDERGROUND UTILITIES SHOWN WERE PROVIDED BY A THIRD PARTY AND PCS DOES NOT WARRANTY THEIR VALIDITY AND/OR ACCURACY AND ADDITIONAL UTILITIES MAY OR MAY NOT BE IN THE SURVEY AREA.
- THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES NAMED IN THE CONTRACT FOR THIS PROJECT FOR THE EXPRESS PURPOSE STATED HEREON AND/OR CONTAINED IN THE SAID CONTRACT BETWEEN PARK COASTAL SURVEYING, LLC. AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTING, AND/OR USING THIS DRAWING, IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM PARK COASTAL SURVEYING, LLC. (PCS) IS STRICTLY PROHIBITED, AND RENDERS THE SURVEYORS CERTIFICATION, SIGNATURE, AND SEAL NULL AND VOID. ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO PARK COASTAL SURVEYING, LLC.
- THE SURVEY DEPICTED HEREON IS NOT INTENDED TO SHOW THE LOCATION OR EXISTENCE OF ANY WETLAND OR JURISDICTIONAL AREAS.
- ELEVATIONS SHOWN HERE ON ARE REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AS PER THE NGS BENCHMARKS "GOULDING" PID DQ8632 PUBLISHED ELEVATION = 23.01' AND "MOLINO" PID DQ8633 PUBLISHED ELEVATION 24.16'.
- INFORMATION SHOWN HERON REFLECTS CONDITIONS AS THEY EXISTED AT THE DATE SHOWN AND CAN ONLY BE CONSIDERED INDICATIVE OF CONDITIONS AT THAT TIME.
- SURVEY INFORMATION SHOWN WAS COLLECTED WITH EITHER A TRIMBLE R8 GPS/GNSS RTK SYSTEM OR A TRIMBLE ROBOTIC TOTAL STATION.
- THE SURVEY WAS CONDUCTED OVER THE FOLLOWING DATE RANGE: 04/06/2020-05/21/2020
- FENCE OWNERSHIP IS UNDETERMINED.
- THIS PROPERTY LIES IN FLOOD ZONE "X" AS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP; COMMUNITY MAP NO. 12081C 0340 E, DATED FEBRUARY 15th 1984, SUBJECT TO VERIFICATION.
- INFORMATION SHOWN HERON REFLECTS CONDITIONS AS THEY EXISTED AT THE DATE SHOWN AND CAN ONLY BE CONSIDERED INDICATIVE OF CONDITIONS AT THAT TIME.

MEDALIST ROAD WM REPLACEMENT
MANATEE COUNTY, FLORIDA
SURVEY CONTROL

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT # 5156170
 SURVEY # 20-0163
 SEC./TWN./RGE 27,33/35/18
 SCALE SEE PLAN

	BY	DATE
SURVEYED	TDP	04-29-20
DESIGNED	LD	08-11-20
DRAWN	LD	08-11-20
CHECKED	LD	08-11-20

LORENZO MARTINE
 LICENSE # 79285
 No. 79285
 State of Florida
 Surveyor & Designer

I:\Users\eng_bonagura\OneDrive\OneDrive\Manatee\Projects\Medalist\Medalist\2020\2020-0163\2 SURVEY CONTROL_17192021_8:59 AM Lorenzo Martine.dwg, 1:1, ANSI (all bleed to 0.400 x 22.00 inches), UC-2018.S18

