

GENERAL

- 1. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: MARCENAL JOSEPH, P.E. AND CAN BE REACHED AT 941.708.7450 x7329.
2. SITE VISITS ARE MANDATORY FOR ALL BIDDERS.
3. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS...

SAFETY

- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.850, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
10. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.

ENVIRONMENTAL

- 13. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.
14. STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.

RIGHT-OF-WAY

- 22. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
23. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
24. THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN...

UTILITIES

- 29. ALL EXISTING FACILITIES IN THE PROJECT AREA SHALL REMAIN OPERATIONAL AND ACCESSIBLE BY COUNTY PERSONNEL AT ALL TIMES, I.E. VALVES, MANHOLE COVERS, SEWER CLEAN-OUTS, ETC.
30. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS...

- 35. ALL WATER SERVICES TO BE INSTALLED OR MODIFIED ON PRIVATE PROPERTY SHALL REQUIRE A PLUMBING PERMIT.
A. THE CONTRACTOR'S PLUMBER SHALL INSTALL A REDUCED PRESSURE (RP) TYPE BACKFLOW PREVENTION ASSEMBLIES (BPA'S) EQUIPPED WITH A PRESSURE RELIEF VALVE AT THE POTABLE WATER METER WHENEVER ANY OF THE FOLLOWING CONDITIONS EXIST AT A PROPERTY:
• SWIMMING POOL,
• IN-GROUND IRRIGATION SYSTEM OR UNDERGROUND SPRINKLERS,
• SECONDARY SOURCE OF WATER (I.E. RECLAIMED WATER OR WELL),
• PROPERTY THAT ABUTS A BODY OF WATER, INCLUDING RIVER, BAY, LAKE OR POND ON THE PROPERTY OR BORDERING THE PROPERTY...

RESTORATION

- 34. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE. ALL RESTORATION LIMITS ARE APPROXIMATE AND SUBJECT TO THE DIRECTION OF THE COUNTY FIELD REPRESENTATIVE.
35. ALL DISTURBED GRASSED AREAS SHALL BE SODDED OR SEEDED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER.
36. ALL CONCRETE THRUST BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR THE OPERATION OF THE PIPELINE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, AT NO ADDITIONAL COST TO THE OWNER.

CONSTRUCTION

- 42. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT Baffles POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
43. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEEP DAILY AS PART OF DAILY CLEAN UP.
44. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
45. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES. CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNER PRIOR TO CONSTRUCTION ACTIVITIES.

DETAILED REQUIREMENTS OF THE DAILY RECORD DRAWING DOCUMENTATION.

EXISTING UTILITY LOCATIONS

- 64. THE FOLLOWING IDENTIFIES THE QUALITY LEVEL OF EXISTING UTILITY LINEWORK ON PLANS.
LEVEL "A" - VISUALLY LOCATED OR SOFT DIGS (HORIZONTAL AND VERTICAL)
LEVEL "B" - DESIGNATED BY GPR OR FLAGGING (HORIZONTAL)
LEVEL "C" - SURFACE VISIBLE FEATURES SURVEY
LEVEL "D" - EXISTING RECORDS OR GIS
REFERENCE 2010 EDITION OF FDOT UTILITY ACCOMMODATION MANUAL (UAM)

MAINTENANCE OF TRAFFIC

- 65. THE CONTRACTOR IS RESPONSIBLE FOR ANY TRAFFIC CONTROL PLAN (TCP) IMPLEMENTED. THE TCP SHALL BE PREPARED BY AN INDIVIDUAL CERTIFIED TO PREPARE A TCP IN THE STATE OF FLORIDA THAT MEETS OR EXCEEDS THE REQUIREMENTS OF THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS LATEST EDITION (SERIES 600). ANY DEVIATIONS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AND SUBMITTED TO COUNTY (AND FDOT) FOR APPROVAL AT LEAST FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COUNTY (AND FDOT) APPROVAL PRIOR TO IMPLEMENTATION AND FAILURE TO OBTAIN APPROVAL SHALL NOT BE GROUNDS FOR ANY DELAY CLAIM FOR TIME OR ADDITIONAL COMPENSATION.
66. THE CONTRACTOR PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHT-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN (TCP). THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES". A TCP SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.

LEGEND

Legend table with columns for EXISTING, LEGEND, and ABBREVIATIONS. Includes symbols for bench marks, concrete monuments, iron pipe, iron rod, hubs, nail & disk, elevation, parcel ID, lot, guy wire, power pole, light pole, mail box, sign, reflector, sprinkler, gas marker, backflow preventer, blow off valve, fire hydrant, water valve, air release valve, water meter, sanitary sewer manhole, soil boring location, telephone service box, utility box, utility riser, flow direction, grate inlet, mitered end section, storm sewer manhole, bush, tree, oak tree, palm tree, pine tree, edge of vegetation, chain link fence, wood fence, barbed wire fence, force main, potable water, reclaimed water, sanitary sewer, storm drain, gas line, overhead charter, underground charter, underground electric, underground electric, underground frontier, underground frontier, underground precast, underground FFL, soil boring location, rail road tracks, edge of concrete, edge of road, toe of slope, top of bank, property line, right of way.

EMERGENCY CONTACTS

Emergency contacts table listing Manatee County Public Works Dept., TECO/Peoples Gas Co., Alex McFarlane, Fronteer John Plott, Manatee County Health Dept., Florida Power & Light, Florida Gas Transmission, Florida Gas Service Office, Charter Communications, and Peace River Electric Cooperative, Inc.

Table with 4 columns: NO., REVISION DESCRIPTION, BY, DATE. Contains one row with revision details.

WHITFIELD COUNTRY CLUB HEIGHTS WATER MAIN REPLACEMENT NOTES & LEGEND



PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208

Table with project details: PROJECT # 404.6109570, SURVEY # 21-2690, SEC./TWN./RGE 24-35S-17E, SCALE N.T.S., SURVEYED HSS 02/2022, DESIGNED CAK 10/2022, DRAWN CAK 12/2022, CHECKED CAK 12/2022. Includes a professional engineer seal for Cody Keime, No. 92102, State of Florida, dated 1/24/25.

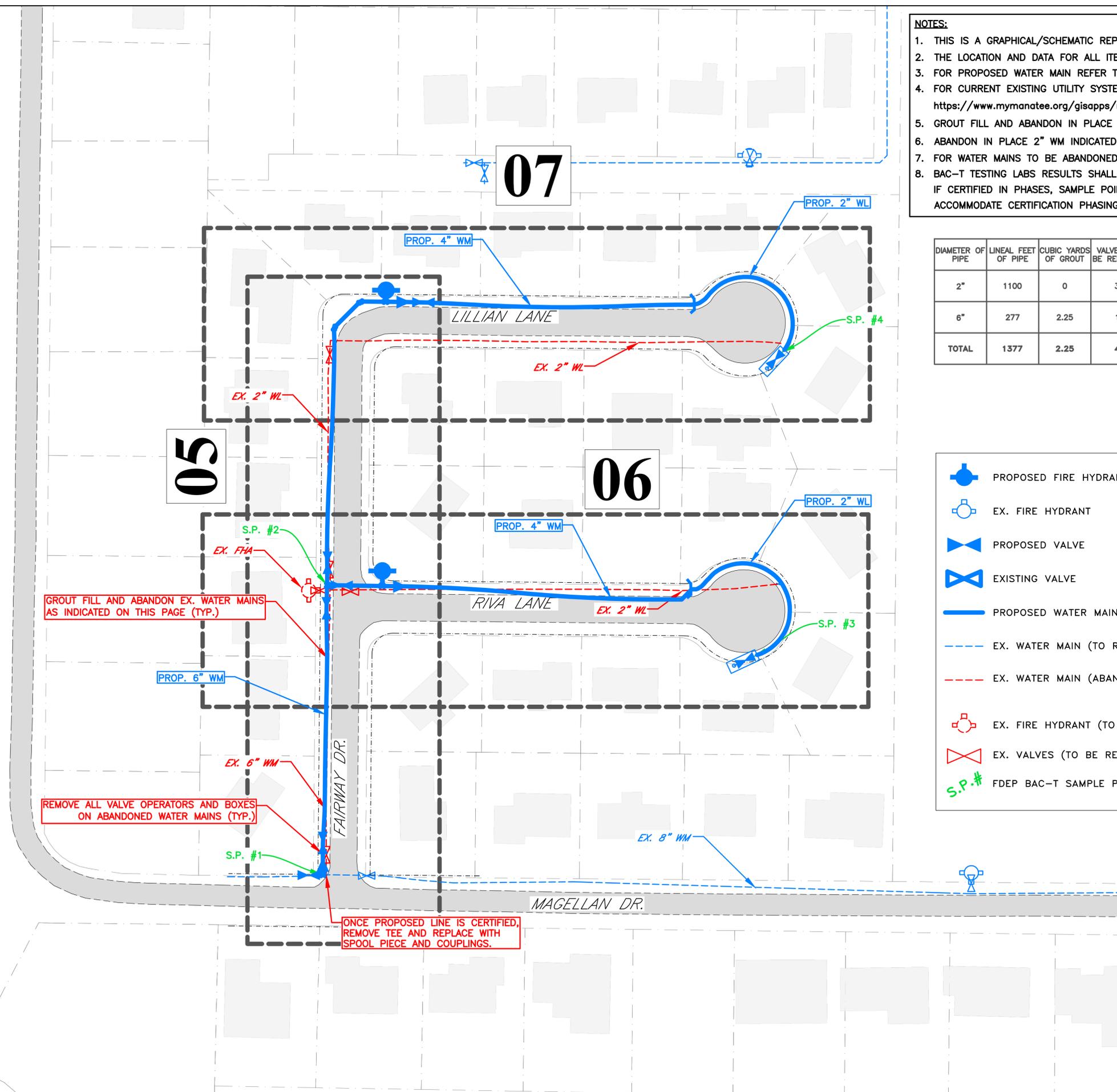
NOTES:

1. THIS IS A GRAPHICAL/SCHEMATIC REPRESENTATION OF EXISTING AND PROPOSED UTILITIES.
2. THE LOCATION AND DATA FOR ALL ITEMS SHOULD BE CONSIDERED APPROXIMATE.
3. FOR PROPOSED WATER MAIN REFER TO THE CONSTRUCTION DRAWINGS.
4. FOR CURRENT EXISTING UTILITY SYSTEM INFORMATION, REFER TO THE COUNTY PUBLIC GIS WEBSITE:
<https://www.mymanatee.org/gisapps/mobile/index.html?type=utilities-public>
5. GROUT FILL AND ABANDON IN PLACE 3" AND 6" WM INDICATED ON THIS SHEET.
6. ABANDON IN PLACE 2" WM INDICATED ON THIS SHEET.
7. FOR WATER MAINS TO BE ABANDONED, REMOVE ALL VALVE STEMS AND VALVE BOXES.
8. BAC-T TESTING LABS RESULTS SHALL CORRELATE WITH THE NUMBERING PROVIDED ON THIS SHEET. IF CERTIFIED IN PHASES, SAMPLE POINT LOCATIONS WILL BE REQUIRED TO BE ADJUSTED TO ACCOMMODATE CERTIFICATION PHASING PLAN.

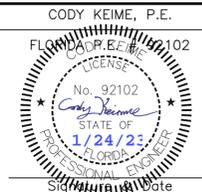


DIAMETER OF PIPE	LINEAL FEET OF PIPE	CUBIC YARDS OF GROUT	VALVES TO BE REMOVED
2"	1100	0	3
6"	277	2.25	1
TOTAL	1377	2.25	4

-  PROPOSED FIRE HYDRANT
-  EX. FIRE HYDRANT
-  PROPOSED VALVE
-  EXISTING VALVE
-  PROPOSED WATER MAIN
-  EX. WATER MAIN (TO REMAIN)
-  EX. WATER MAIN (ABANDONED IN PLACE)
-  EX. FIRE HYDRANT (TO BE REMOVED)
-  EX. VALVES (TO BE REMOVED)
-  FDEP BAC-T SAMPLE POINT



WHITFIELD COUNTRY CLUB HEIGHTS WATER MAIN REPLACEMENT KEY SHEET WEST

 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	PROJECT #	404.6109570	CODY KEIME, P.E. 
	SURVEY #	21-2690	
	SEC./TWN./RGE	24-35S-17E	
	SCALE	1" = 50'	
SURVEYED	BY	DATE	
DESIGNED	CAK	10/2022	
DRAWN	CAK	12/2022	
CHECKED	CAK	12/2022	

SHEET 3 OF 18

R:\Users\Eng Design\PROJ\WTR LINE Proj\Wtr-Whitfield Country Club Heights\DWGS\Key Sheet.dwg, 1/17/2023 10:27 AM, Cody Keime, P.E., ANSI full sheet D (34.00 x 22.00 inches), MC-2018.S18

- NOTES:**
1. THIS IS A GRAPHICAL/SCHEMATIC REPRESENTATION OF EXISTING AND PROPOSED UTILITIES.
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DIAMETER OF PIPE	LINEAL FEET OF PIPE	CUBIC YARDS OF GROUT	VALVES TO BE REMOVED
3"	1540	2.72	4
TOTAL	1540	2.72	4

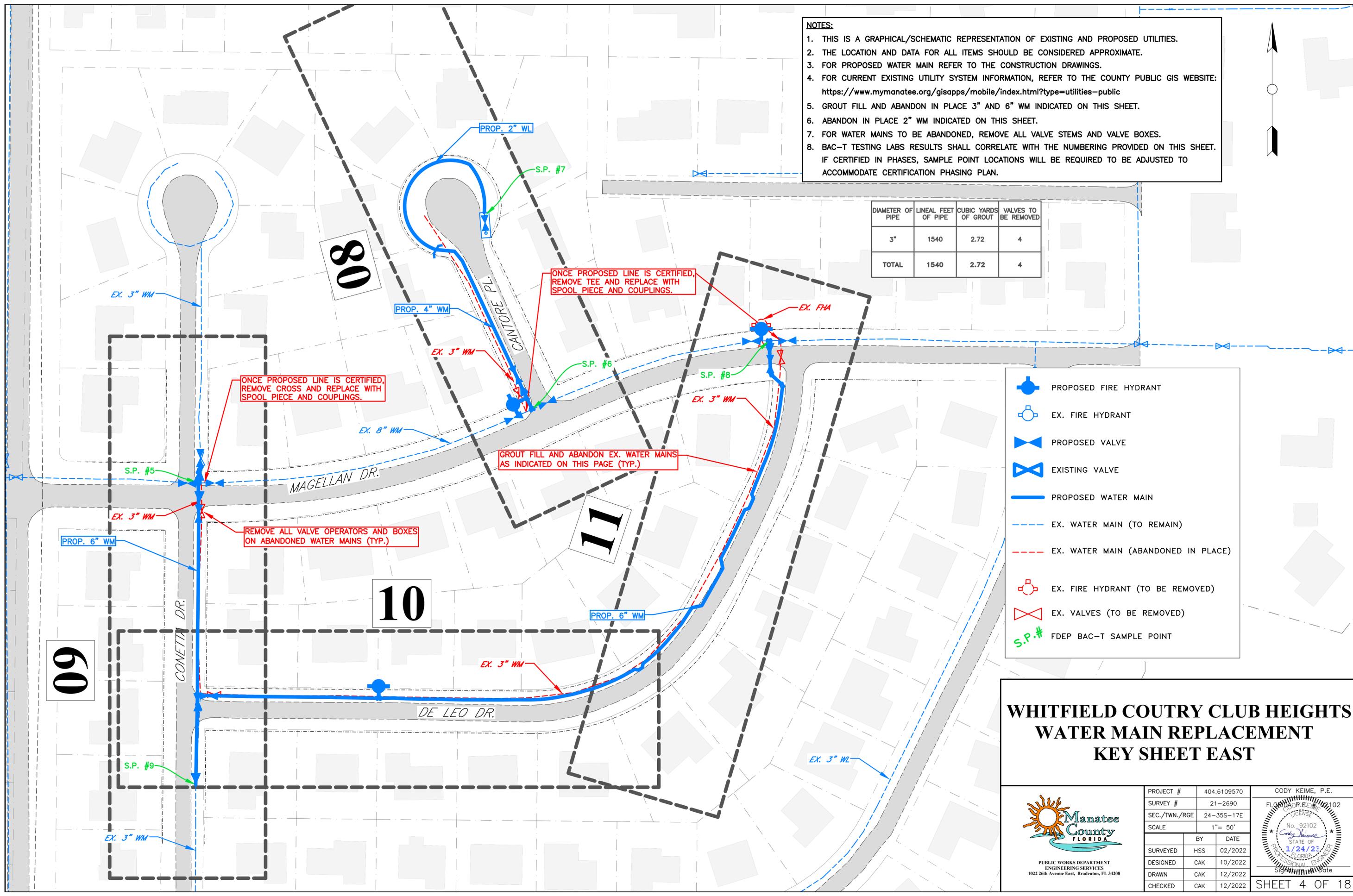
- PROPOSED FIRE HYDRANT
- EX. FIRE HYDRANT
- PROPOSED VALVE
- EXISTING VALVE
- PROPOSED WATER MAIN
- EX. WATER MAIN (TO REMAIN)
- EX. WATER MAIN (ABANDONED IN PLACE)
- EX. FIRE HYDRANT (TO BE REMOVED)
- EX. VALVES (TO BE REMOVED)
- FDEP BAC-T SAMPLE POINT

WHITFIELD COUNTRY CLUB HEIGHTS WATER MAIN REPLACEMENT KEY SHEET EAST

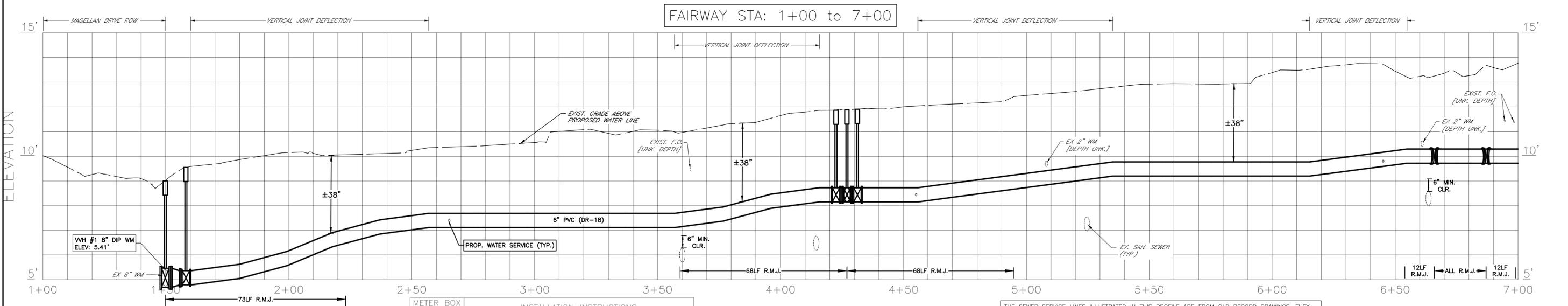
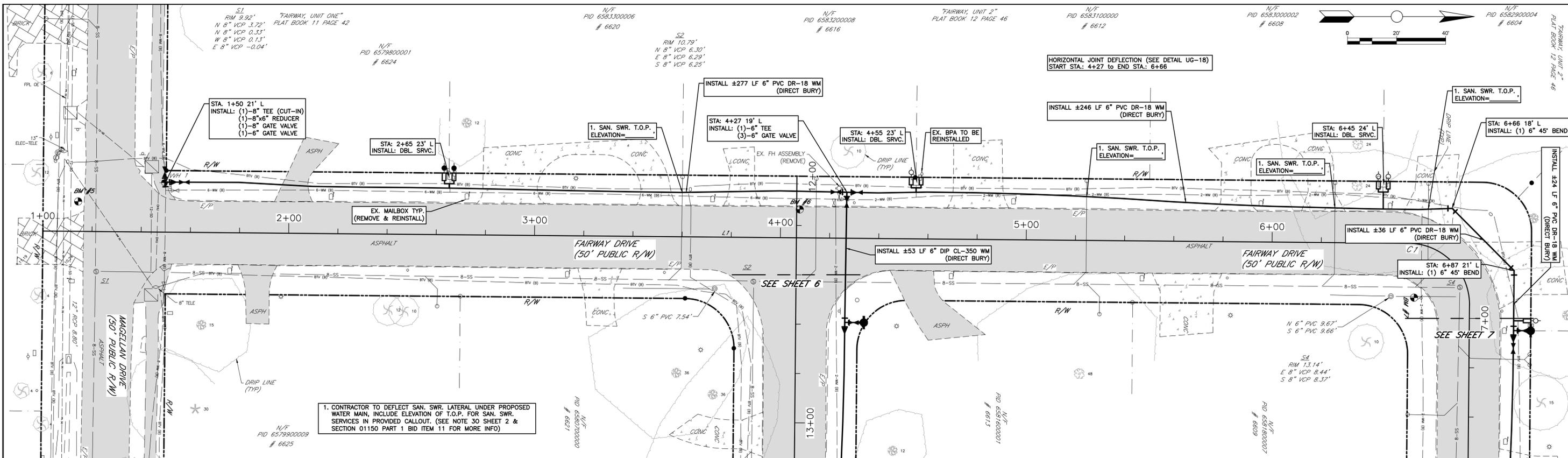


PROJECT #	404.6109570
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SCALE	1" = 50'
SURVEYED	HSS 02/2022
DESIGNED	CAK 10/2022
DRAWN	CAK 12/2022
CHECKED	CAK 12/2022

CODY KEIME, P.E.
FLORIDA PROFESSIONAL ENGINEER
No. 92102
STATE OF FLORIDA
1/24/23
Professional Engineer
Signature: _____ Date: _____



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METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	RELOCATE EX. METER BOX (NO BPA)
	INSTALL NEW METER (NO BPA)
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	RELOCATE EX. METER BOX AND INSTALL DC BPA
	RELOCATE EX. METER BOX AND INSTALL RPZ BPA

THE SEWER SERVICE LINES ILLUSTRATED IN THIS PROFILE ARE FROM OLD RECORD DRAWINGS. THEY ARE DRAWN AT THE ELEV. OF THE SEWER MAIN. THE ELEV. THAT THEY CROSS THE PROPOSED WATERMAIN IS UNKNOWN.

LIKE WISE THE SEWER CLEAN OUTS (AND SERVICE LINES) ILLUSTRATED IN PLAN MAY OR MAY NOT BE AT THE LOCATION SHOWN. IN ALL CASES THE INSTALLATION OF NEW WATER SERVICE CONNECTIONS MUST MEET THE CLEARANCE REQUIREMENTS OF MANATEE COUNTY STANDARD DETAIL UW-21.

GENERAL NOTES

- SEE SHEET 8 FOR CONSTRUCTION NOTES THAT ARE APPLICABLE TO ALL PLAN AND PROFILE SHEETS.
- SEE SHEET 17 FOR MORE BENCHMARK & SUE INFORMATION.

NO.	REVISION DESCRIPTION	BY	DATE

WHITFIELD COUNTRY CLUB HEIGHTS

WATER MAIN REPLACEMENT

FAIRWAY DR.



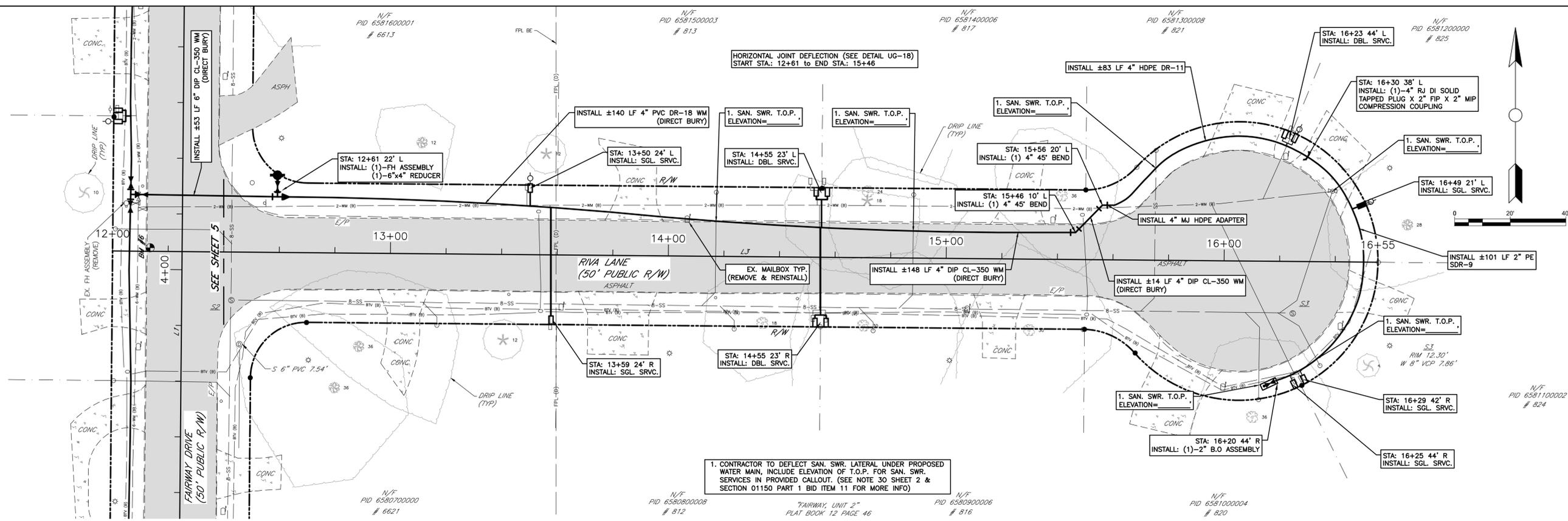
PROJECT #	404.6109570	
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SCALE	SEE PLAN	
SURVEYED	HSS 02/2022	
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DRAWN	CAK 12/2022	
CHECKED	CAK 12/2022	
PROJECT # 404.6109570		CODY KEIME, P.E.
SURVEY # 21-2690		FLORIDA PROFESSIONAL ENGINEER No. 92102
SEC./TWN./RGE 24-35S-17E		1/24/23
SCALE SEE PLAN		DATE
BY	DATE	SIGNATURE
DESIGNED	CAK 10/2022	DATE
DRAWN	CAK 12/2022	DATE
CHECKED	CAK 12/2022	DATE

FAIRWAY, UNIT 2"
PLAT BOOK 12 PAGE 46

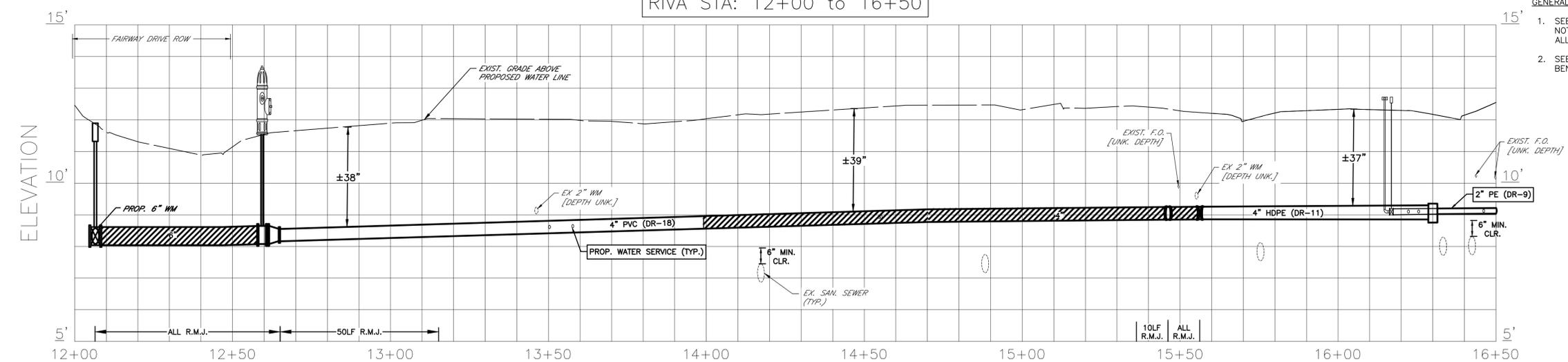
N/F
PID 6581200008
6616

N/F
PID 6581300006
6620

SS
R/W 10.79'
N 8° VCP 6.30'
E 8° VCP 6.29'
S 8° VCP 6.25'



RIVA STA: 12+00 to 16+50



- GENERAL NOTES**
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METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	RELOCATE EX. METER BOX (NO BPA)
	INSTALL NEW METER (NO BPA)
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	RELOCATE EX. METER BOX AND INSTALL DC BPA
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NO.	REVISION DESCRIPTION	BY	DATE

WHITFIELD COUNTRY CLUB HEIGHTS

WATER MAIN REPLACEMENT

RIVA LANE

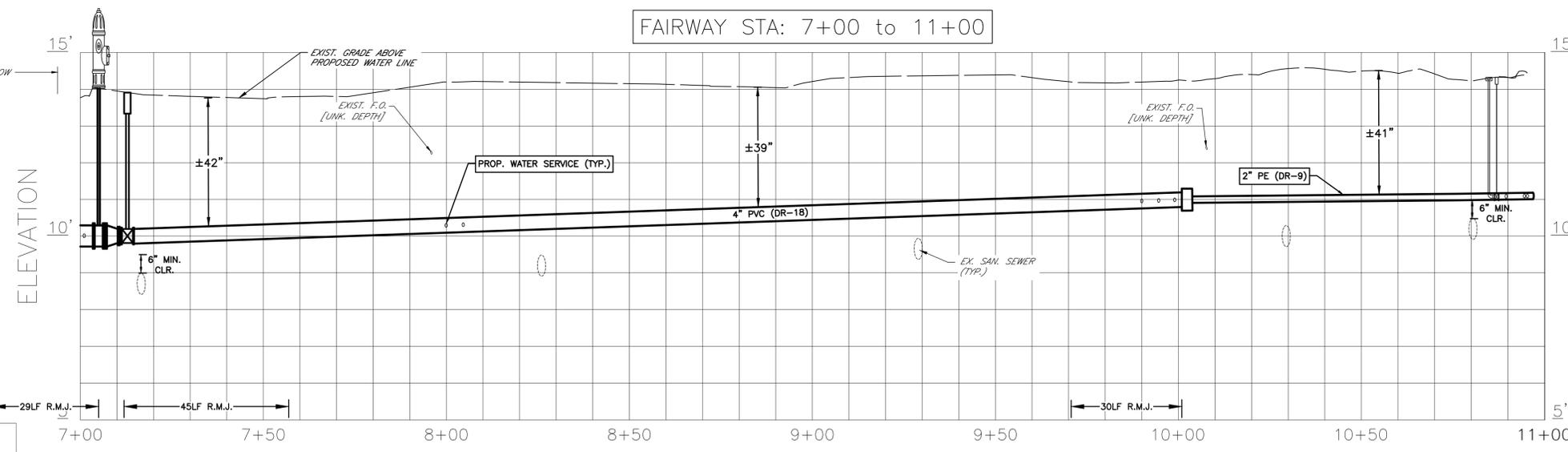
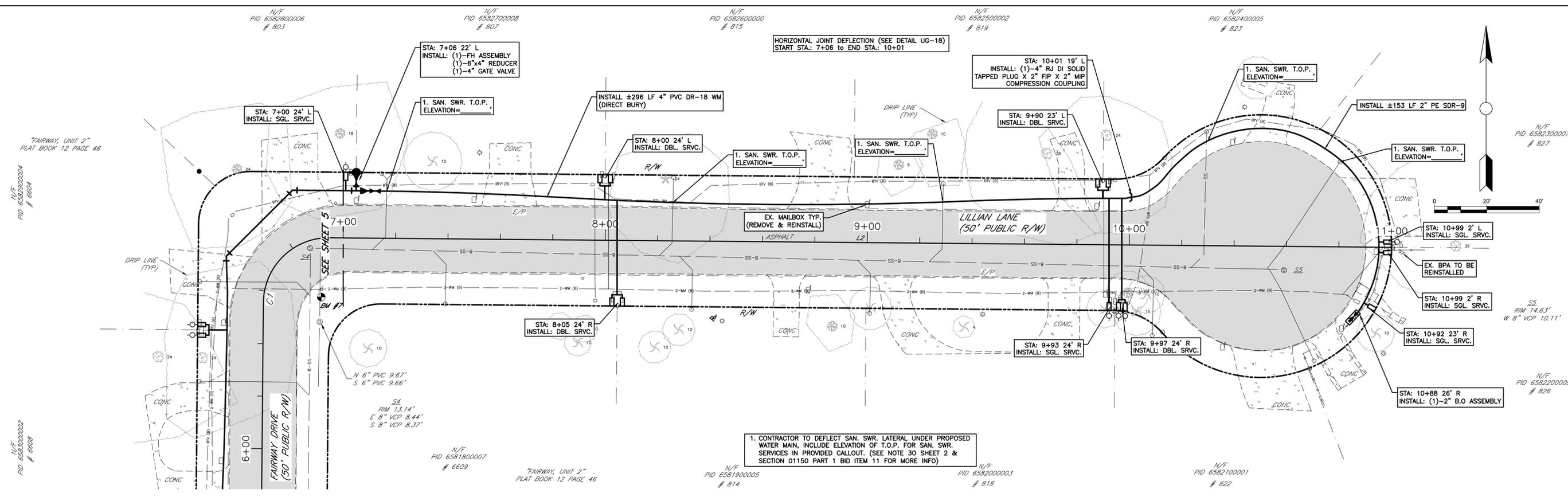


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CHECKED	CAK 12/2022

CODY KEIME, P.E.

FLORIDA PROFESSIONAL ENGINEER
No. 92102
1/24/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SHEET 6 OF 18



- GENERAL NOTES**
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BENCHMARK #7
STA. 6+72 OFF. 21.20' R

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NO.	REVISION DESCRIPTION	BY	DATE

WHITFIELD COUNTRY CLUB HEIGHTS

WATER MAIN REPLACEMENT

LILLIAN LANE

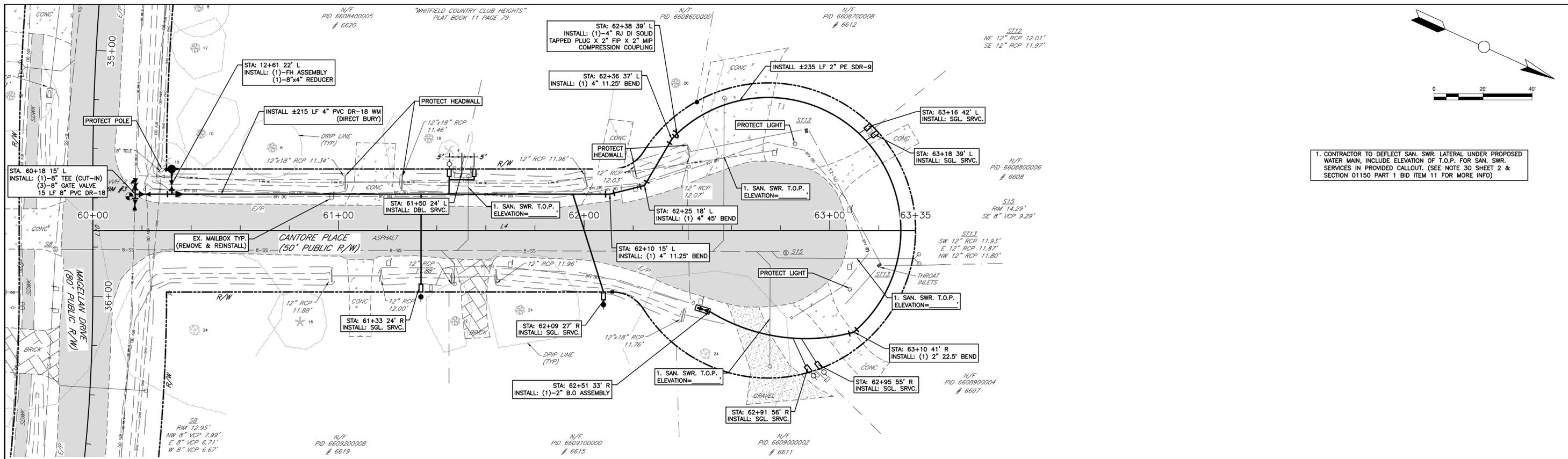


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CODY KEIME, P.E.

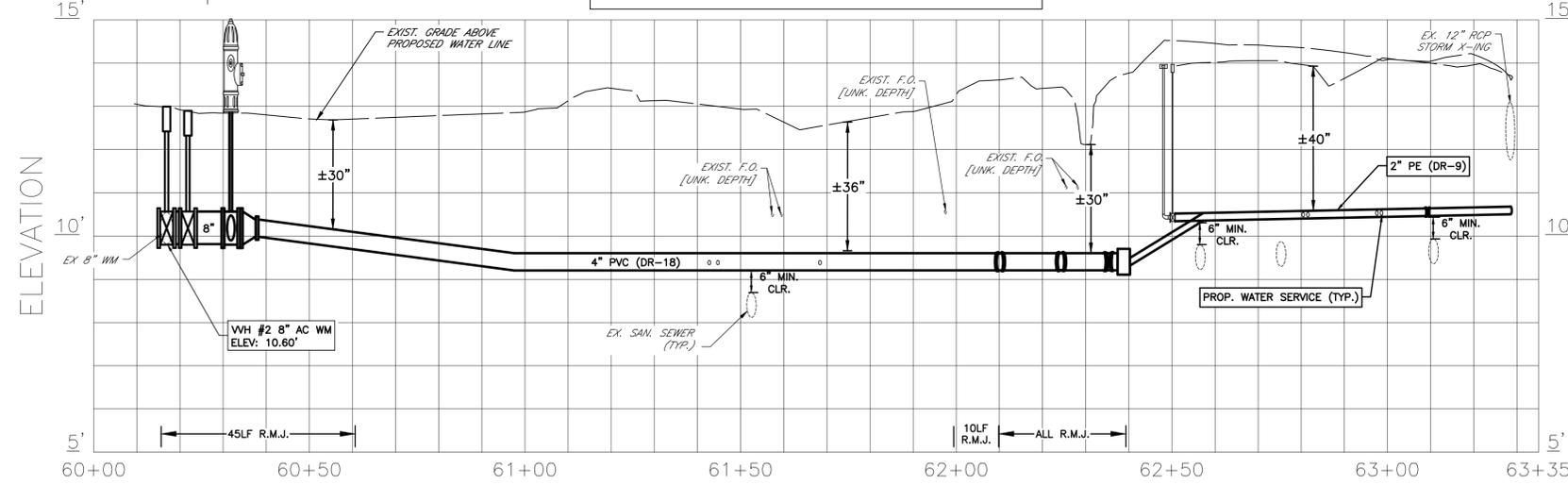
FLORIDA PROFESSIONAL ENGINEER
No. 92102
STATE OF FLORIDA
1/24/23
PROFESSIONAL ENGINEER

SHEET 7 OF 18



1. CONTRACTOR TO DEFLECT SAN. SWR. LATERAL UNDER PROPOSED WATER MAIN, INCLUDE ELEVATION OF T.O.P. FOR SAN. SWR. SERVICES IN PROVIDED CALLOUT. (SEE NOTE 30 SHEET 2 & SECTION 01150 PART 1 BID ITEM 11 FOR MORE INFO)

CANTORE STA: 60+00 to 63+35



CONSTRUCTION NOTES (APPLICABLE TO ALL PLAN AND PROFILE SHEETS):

- ALL METER BOXES PROPOSED AND/OR RELOCATED SHALL BE INSTALLED PER UW-21, UNLESS OTHERWISE NOTED.
- 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 (BPA'S) (WILKINS 975XL2 OR APOLLO VALVE RPLF4A) WITH VACUUM BREAKERS ON ALL EXTERIOR HOSE BIBBS, UNLESS OTHERWISE NOTED.
- WATER SERVICE TAPS SHALL NOT BE LOCATED UNDER DRIVEWAYS.
- INSTALLATION OF THE PROPOSED PIPE SHALL BE AS SHOWN IN THE PLAN AND PROFILE VIEWS, UNLESS REVISIONS ARE APPROVED BY THE COUNTY. 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, 3.03.H. PIPE PLACED OUT OF TOLERANCE IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO COST TO THE COUNTY.
- CONTRACTOR SHALL EXPOSE AND SURVEY THE EXISTING TOP OF "PIPE" ELEVATION AT ALL PROPOSED UTILITY CROSSINGS. THIS INFORMATION SHALL BE PROVIDED ON THE RECORD DRAWINGS.
- CONTRACTOR SHALL USE A TAPE MEASURE AND PROVIDE PHOTOGRAPHIC EVIDENCE THAT ALL MINIMUM REQUIRED HORIZONTAL OR VERTICAL DISTANCES HAVE BEEN PROVIDED. THESE PHOTOS SHALL BECOME PART OF THE PROJECT FILE. PHOTOS SHALL BE LABELED WITH THE BASELINE STATION NUMBERING AND UPLOADED TO @BUILDER WITHIN 1 TO 2 DAYS OF THE CROSSING INSTALLATIONS. THESE REQUIREMENTS SHALL APPLY TO ALL CROSSINGS. THESE PHOTOS SHALL BE USED TO SUPPORT THE AS-BUILT RECORD INFORMATION.
- ALL EXISTING, UNDAMAGED, ROME 1910 CAST IRON METER BOXES MAY BE REUSED. REPLACE ALL OTHERS WITH CURRENT STANDARD.
- CONTRACTOR SHALL NOT USE LEVERAGE OR MECHANICAL MEANS TO ALIGN THE PIPE AND/OR FITTINGS FOR ATTACHMENT. THE PIPE SHALL NOT BE "SPRING-LOADED".
- ALL DISTURBED EX. DRAINAGE DITCHES/SWALES SHALL BE RE-GRADED TO ORIGINAL CONDITION TO PROVIDE POSITIVE DRAINAGE.
- ALL COST TO RESTORE PROPERTY IN THE ROW DURING PIPE INSTALLATION SHALL BE INCLUDED IN THE COST OF THE PIPE BID ITEM, IF NOT SPECIFICALLY ADDRESSED BY OTHER BID ITEMS.
- THERE SHALL BE 3-FOOT MINIMUM HORIZONTAL SEPARATION BETWEEN THE PROPOSED WATER MAIN AND EXISTING/PROPOSED STRUCTURES.
- ANY PROPOSED AIR RELEASE VALVES (ARV) SHALL BE INSTALLED AFTER THE FIRST DRAFT OF THE RECORD DRAWINGS ARE REVIEWED TO ENSURE THE ARVS ARE INSTALLED AT THE ACTUAL HIGH POINTS OF THE NEW INSTALLED MAINS.
- LOCATION OF EXISTING UTILITIES ARE APPROXIMATE. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS BOTH HORIZONTALLY AND VERTICALLY ALONG THE PROPOSED WATER MAIN ALIGNMENT AND MARK THEIR LOCATION (HORIZ. & VERT.) ON THE PLANS AND NOTIFY THE COUNTY OF ANY CONFLICTS WITH THE PLAN ELEVATIONS IMMEDIATELY. 6-INCH MIN. VERTICAL CLEARANCE IS REQUIRED FROM THE WATER MAIN. THE REDLINE DRAWINGS SHALL BE SUBMITTED TO THE COUNTY FOR RECORD. ALL EXISTING UTILITIES SHALL BE REFLECTED IN THE RECORD DRAWINGS OF THE PROJECT.

THE VERTICAL ALIGNMENT OF THE WATER MAIN MAY BE SLIGHTLY VARIED BY ALLOWABLE JOINT DEFLECTIONS BASED ON THE PIPE MANUFACTURER'S RECOMMENDATIONS PER UG-18. FITTINGS SHALL NOT BE USED TO DEFLECT AROUND THE EXISTING UTILITIES. IF A CONFLICT CANNOT BE AVOIDED BY UTILIZING PIPE JOINT DEFLECTIONS, THEN THE EXISTING UTILITIES SHALL BE RELOCATED TO ALLOW CLEARANCE FOR THE WATER MAIN TO PASS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE EXISTING UTILITY PRIOR TO RELOCATION.

METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	RELOCATE EX. METER BOX (NO BPA)
	INSTALL NEW METER (NO BPA)
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	RELOCATE EX. METER BOX AND INSTALL DC BPA
	RELOCATE EX. METER BOX AND INSTALL RPZ BPA

GENERAL NOTE
1. SEE SHEET 17 FOR MORE BENCHMARK & SUE INFORMATION.

NO.	REVISION DESCRIPTION	BY	DATE

WHITFIELD COUNTRY CLUB HEIGHTS

WATER MAIN REPLACEMENT

CONTORE PL.

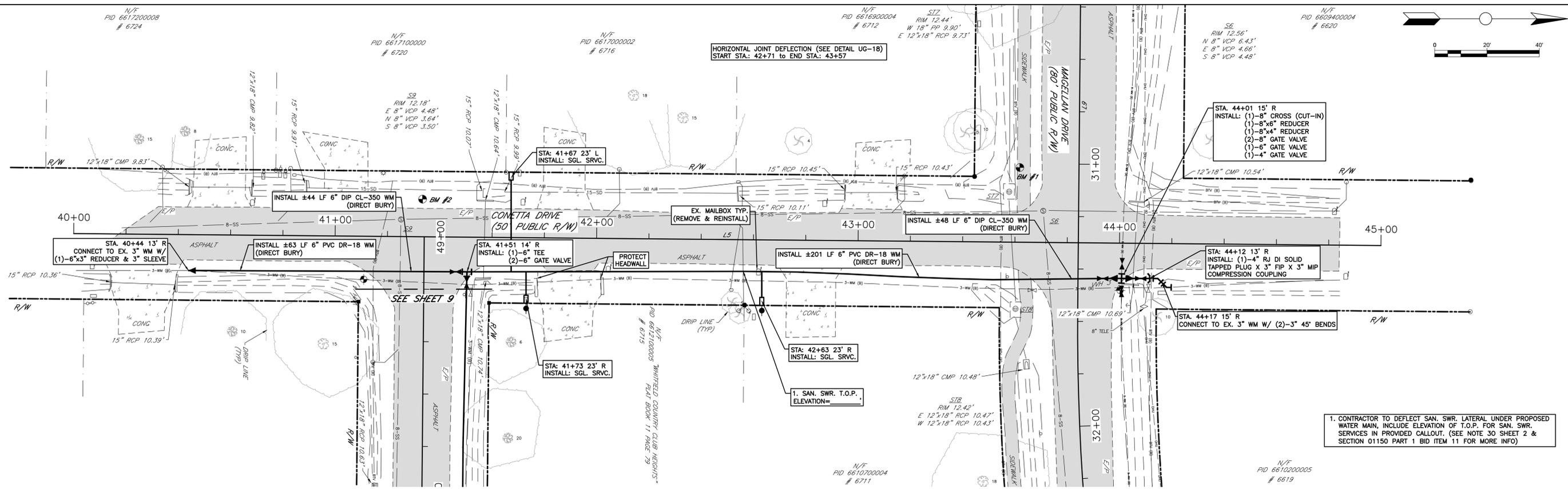


PROJECT #	404.6109570
SURVEY #	21-2690
SEC./TWN./RGE	24-35S-17E
SCALE	SEE PLAN
BY	DATE
SURVEYED	HSS 02/2022
DESIGNED	CAK 10/2022
DRAWN	CAK 12/2022
CHECKED	CAK 12/2022

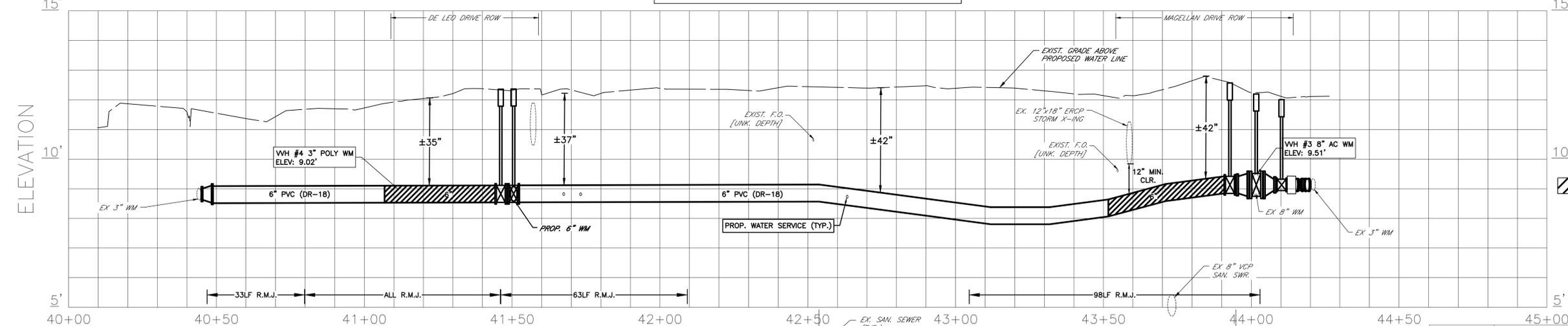
CODY KEIME, P.E.

FLORIDA PROFESSIONAL ENGINEER
No. 92102
1/24/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SHEET 8 OF 18



CONETTA STA: 40+00 to 45+00



- GENERAL NOTES**
- SEE SHEET 8 FOR CONSTRUCTION NOTES THAT ARE APPLICABLE TO ALL PLAN AND PROFILE SHEETS.
 - SEE SHEET 17 FOR MORE BENCHMARK & SUE INFORMATION.

METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	RELOCATE EX. METER BOX (NO BPA)
	INSTALL NEW METER (NO BPA)
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	RELOCATE EX. METER BOX AND INSTALL DC BPA
	RELOCATE EX. METER BOX AND INSTALL RPZ BPA

THE SEWER SERVICE LINES ILLUSTRATED IN THIS PROFILE ARE FROM OLD RECORD DRAWINGS. THEY ARE DRAWN AT THE ELEV. OF THE SEWER MAIN. THE ELEV. THAT THEY CROSS THE PROPOSED WATERMAIN IS UNKNOWN.

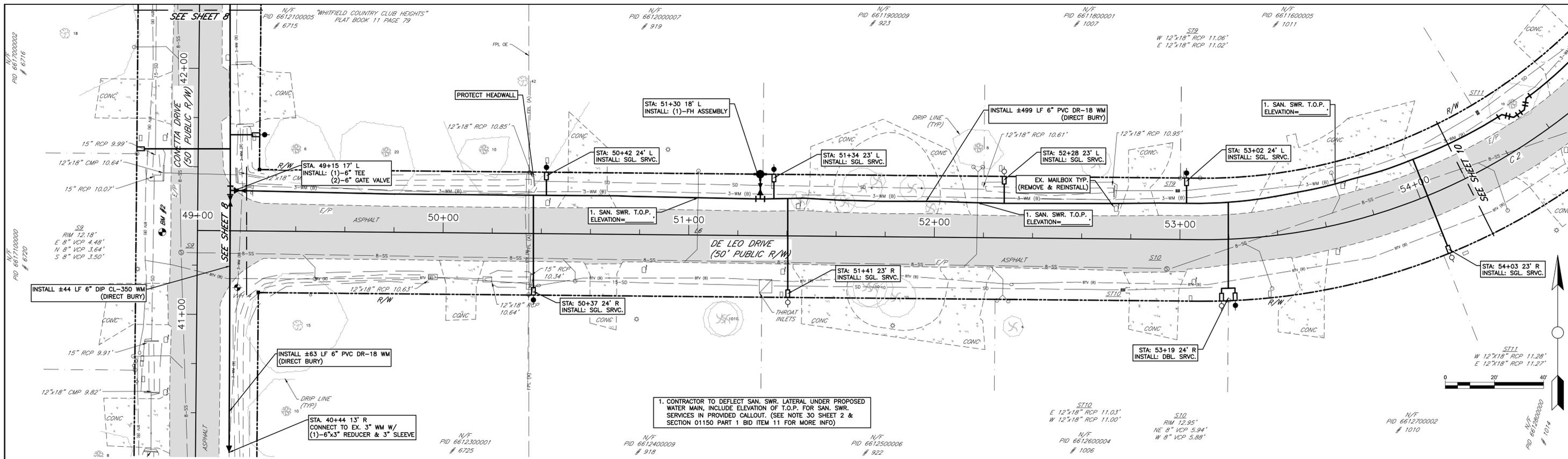
LIKE WISE THE SEWER CLEAN OUTS (AND SERVICE LINES) ILLUSTRATED IN PLAN MAY OR MAY NOT BE AT THE LOCATION SHOWN. IN ALL CASES THE INSTALLATION OF NEW WATER SERVICE CONNECTIONS MUST MEET THE CLEARANCE REQUIREMENTS OF MANATEE COUNTY STANDARD DETAIL UW-21.

NO.	REVISION DESCRIPTION	BY	DATE

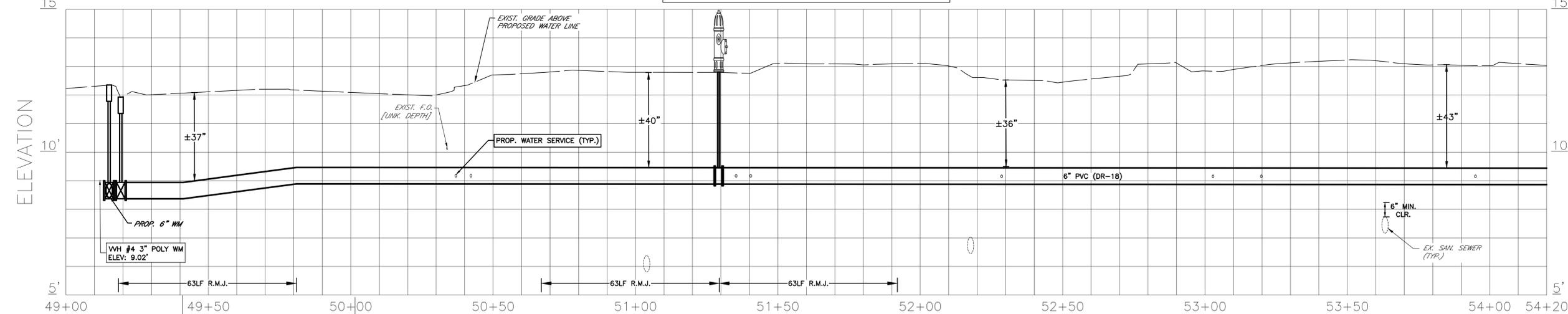
WHITFIELD COUNTRY CLUB HEIGHTS WATER MAIN REPLACEMENT CONETTA DR.



PROJECT #	404.6109570	
SURVEY #	21-2690	
SEC./TWN./RGE	24-35S-17E	
SCALE	SEE PLAN	
SURVEYED	HSS 02/2022	
DESIGNED	CAK 10/2022	
DRAWN	CAK 12/2022	
CHECKED	CAK 12/2022	SHEET 9 OF 18



DE LEO STA: 49+00 TO 54+20



BENCHMARK #2
STA. 41.33 OFF. 14.32' L

GENERAL NOTES

- SEE SHEET 8 FOR CONSTRUCTION NOTES THAT ARE APPLICABLE TO ALL PLAN AND PROFILE SHEETS.
- SEE SHEET 17 FOR MORE BENCHMARK & SUE INFORMATION.

THE SEWER SERVICE LINES ILLUSTRATED IN THIS PROFILE ARE FROM OLD RECORD DRAWINGS. THEY ARE DRAWN AT THE ELEV. OF THE SEWER MAIN. THE ELEV. THAT THEY CROSS THE PROPOSED WATER MAIN IS UNKNOWN.

LIKE WISE THE SEWER CLEAN OUTS (AND SERVICE LINES) ILLUSTRATED IN PLAN MAY OR MAY NOT BE AT THE LOCATION SHOWN. IN ALL CASES THE INSTALLATION OF NEW WATER SERVICE CONNECTIONS MUST MEET THE CLEARANCE REQUIREMENTS OF MANATEE COUNTY STANDARD DETAIL UW-21.

METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	RELOCATE EX. METER BOX (NO BPA)
	INSTALL NEW METER (NO BPA)
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	RELOCATE EX. METER BOX AND INSTALL DC BPA
	RELOCATE EX. METER BOX AND INSTALL RPZ BPA

NO.	REVISION DESCRIPTION	BY	DATE

WHITFIELD COUNTRY CLUB HEIGHTS

WATER MAIN REPLACEMENT

DE LEO DR. STA 49+00 TO 54+20

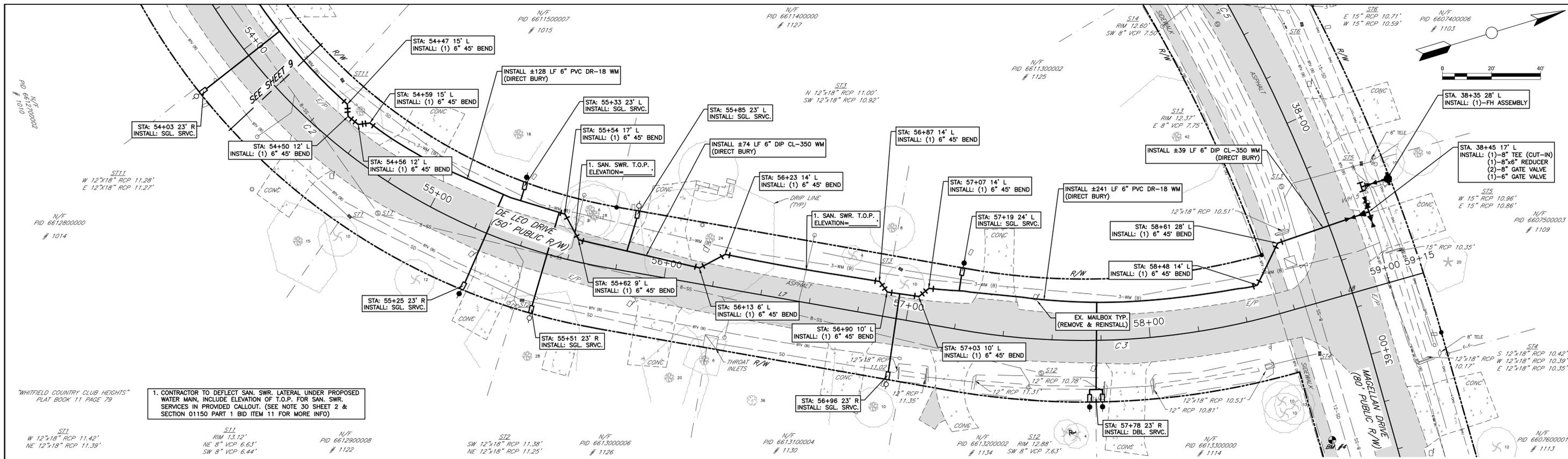


PROJECT #	404.6109570
SURVEY #	21-2690
SEC./TWN./RGE	24-35S-17E
SCALE	SEE PLAN
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DESIGNED	CAK 10/2022
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CHECKED	CAK 12/2022

CODY KEIME, P.E.

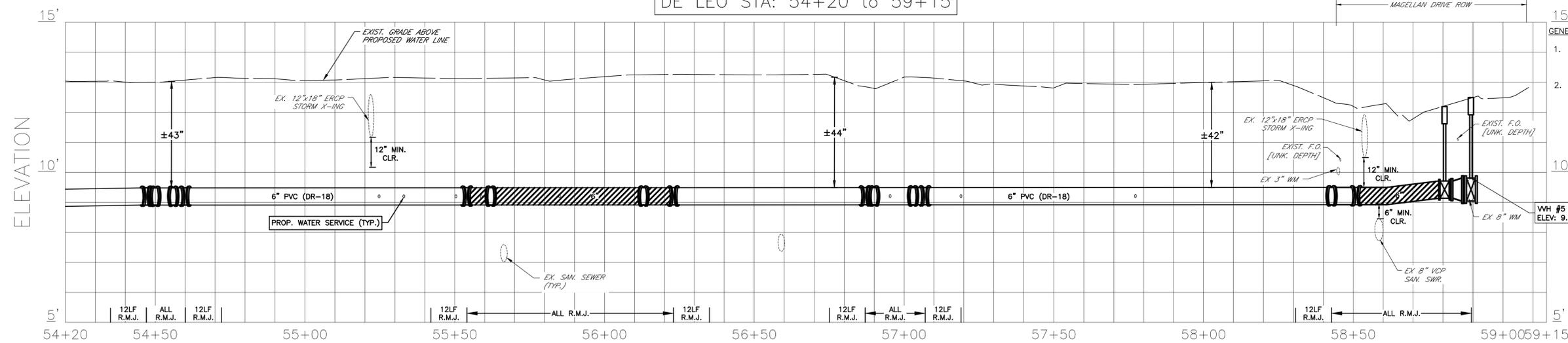
FLORIDA PROFESSIONAL ENGINEER
No. 92102
1/24/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SHEET 10 OF 18



1. CONTRACTOR TO DEFLECT SAN. SWR. LATERAL UNDER PROPOSED WATER MAIN, INCLUDE ELEVATION OF T.O.P. FOR SAN. SWR. SERVICES IN PROVIDED CALLOUT. (SEE NOTE 30 SHEET 2 & SECTION 01150 PART 1 BID ITEM 11 FOR MORE INFO)

DE LEO STA: 54+20 to 59+15



- GENERAL NOTES**
- SEE SHEET 8 FOR CONSTRUCTION NOTES THAT ARE APPLICABLE TO ALL PLAN AND PROFILE SHEETS.
 - SEE SHEET 17 FOR MORE BENCHMARK & SUE INFORMATION.

THE SEWER SERVICE LINES ILLUSTRATED IN THIS PROFILE ARE FROM OLD RECORD DRAWINGS. THEY ARE DRAWN AT THE ELEV. OF THE SEWER MAIN. THE ELEV. THAT THEY CROSS THE PROPOSED WATERMAIN IS UNKNOWN.
 LIKE WISE THE SEWER CLEAN OUTS (AND SERVICE LINES) ILLUSTRATED IN PLAN MAY OR MAY NOT BE AT THE LOCATION SHOWN. IN ALL CASES THE INSTALLATION OF NEW WATER SERVICE CONNECTIONS MUST MEET THE CLEARANCE REQUIREMENTS OF MANATEE COUNTY STANDARD DETAIL UW-21.

▨ - DUCTILE IRON PIPE

METER BOX AND BPA	INSTALLATION INSTRUCTIONS
	RELOCATE EX. METER BOX (NO BPA)
	INSTALL NEW METER (NO BPA)
	INSTALL NEW METER BOX AND DC BPA
	INSTALL NEW METER BOX AND RPZ BPA
	RELOCATE EX. METER BOX AND INSTALL DC BPA
	RELOCATE EX. METER BOX AND INSTALL RPZ BPA

BENCHMARK #4
 STA. 58+60 OFF. 55.27' R

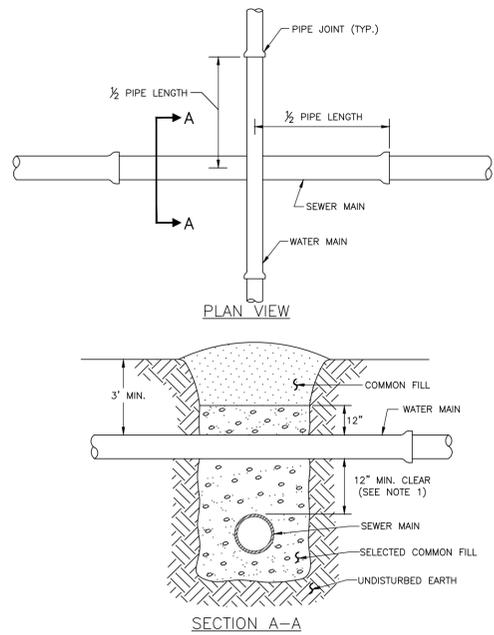
NO.	REVISION DESCRIPTION	BY	DATE

WHITFIELD COUNTRY CLUB HEIGHTS WATER MAIN REPLACEMENT DE LEO DR. STA 54+20 TO 59+15

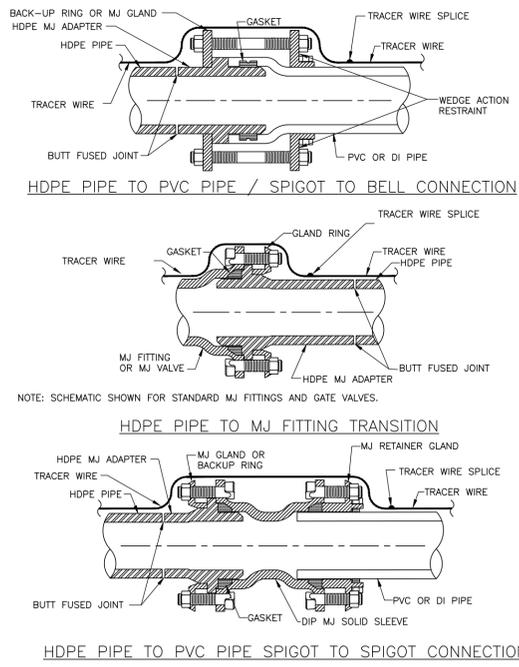


PROJECT #	404.6109570
SURVEY #	21-2690
SEC./TWN./RGE	24-35S-17E
SCALE	SEE PLAN
SURVEYED	HSS 02/2022
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CODY KEIME, P.E.
 No. 92102
 STATE OF FLORIDA
 1/24/23
 PROFESSIONAL ENGINEER



- NOTES:
- CLEARANCE MAY BE REDUCED TO 6" FOR GRAVITY SEWER WHERE WATER MAIN IS DUCTILE IRON.
 - PIPE SECTIONS SHALL BE FULL-LENGTH AND SHALL BE ADJUSTED HORIZONTALLY, SO THAT THE CROSSING IS AT EACH PIPE SECTION'S MIDPOINT REGARDLESS OF THE VERTICAL CLEARANCE.



- NOTE: SCHEMATIC SHOWN FOR STANDARD MJ FITTINGS AND GATE VALVES.



1. ONE TRACER WIRE SHALL BE SECURED TO THE PIPE FOR ALL TYPES OF PIPELINE INSTALLATIONS.

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

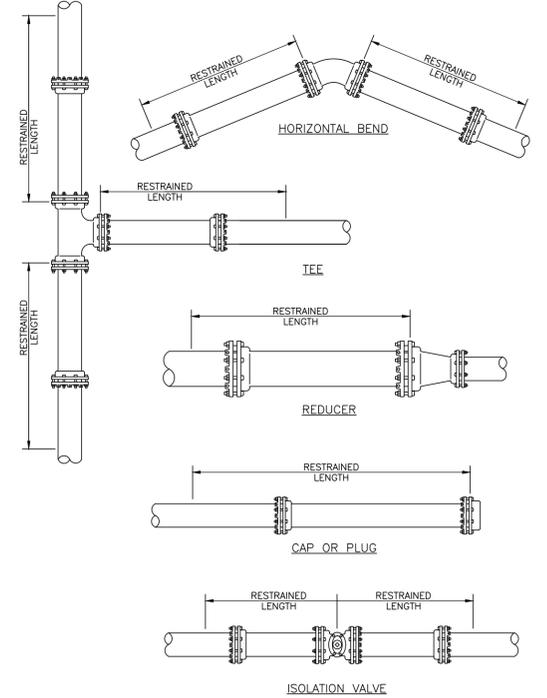
MAIN PIPE SIZE	HORIZ. BENDS			TEES			REDUCERS			PLUGS & VALVES
	90°	45°	22.5°	SIZE	LENGTH	X	SIZE	LENGTH		
24	90	38	18	X24	169	X16	90	X10	6	214
20	78	32	16	X20	132	X16	90	X10	6	184
16	66	27	13	X16	111	X12	84	X8	6	151
12	52	22	10	X12	87	X10	81	X6	6	118
10	44	18	9	X10	80	X8	65	X4	6	100
8	37	15	7	X8	49	X6	30	X4	6	83
6	29	12	6	X6	29	X4	1	X4	6	63
4	21	8	4	X4	12	X4	1	X4	6	45

- NOTES:
- RESTRAIN 11.25° BENDS 50% OF LENGTH FOR 22.5° BENDS.
 - ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.
 - ALL ISOLATION VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 180 PSI TEST PRESSURE IN EITHER DIRECTION.
 - PIPE SIZES ARE GIVEN IN INCHES.
 - RESTRAINED PIPE LENGTHS ARE GIVEN IN FEET.
 - LENGTHS SHOWN ARE FOR A TEST PRESSURE OF 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.
 - RESTRAINED LENGTHS TO BE APPLIED TO PIPELINES PER DETAIL UG-10 RESTRAINED LENGTHS FOR PIPE.
 - ALL RESTRAINED JOINT HARDWARE SHALL CONFORM TO 1.11.17 OF THE PUBLIC WORKS UTILITIES STANDARDS MANUAL.
 - ALL THREE "LEGS" OF TEES SHALL BE RESTRAINED PER THE STATED LENGTH IN THE TABLE.

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	X	SIZE	LENGTH		
36	142	59	28	X36	393	X24	232	X16	84	453
30	124	51	25	X30	333	X24	225	X16	84	391
24	106	44	21	X24	270	X18	189	X12	81	327
20	92	38	18	X20	225	X16	161	X10	81	280
16	77	32	15	X16	177	X12	127	X8	81	231
12	61	25	12	X12	143	X10	107	X6	81	181
10	52	22	10	X10	111	X8	89	X6	81	153
8	44	18	9	X8	78	X6	50	X4	81	128
6	34	14	7	X6	46	X4	1	X4	81	98
4	24	10	5	X4	19	X4	1	X4	81	69

- NOTE:
- SEE UG-8, RESTRAINED LENGTHS FOR PVC PIPE DETAIL FOR NOTES 1 THROUGH 9 THAT ARE ALSO APPLICABLE TO RESTRAINED LENGTHS FOR DIP.



- NOTE:
- SEE DETAIL UG-8 RESTRAINED LENGTHS FOR PVC PIPE FOR NOTES 1 THROUGH 9 THAT ARE ALSO APPLICABLE TO RESTRAINED LENGTHS FOR PIPE.

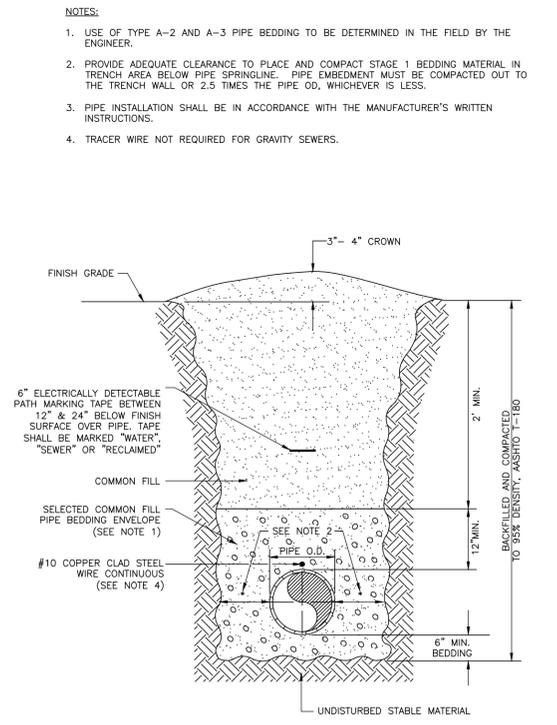
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	TYPICAL NEW WATER & SEWER LINE CROSSING	UG-2
REV. BY	DATE	DATE OF APPROVAL
	February 25, 2020	

MANATEE COUNTY PUBLIC WORKS DEPARTMENT	HDPE TO PVC OR DI PIPE ADAPTER	UG-6
REV. BY	DATE	DATE OF APPROVAL
	February 25, 2020	

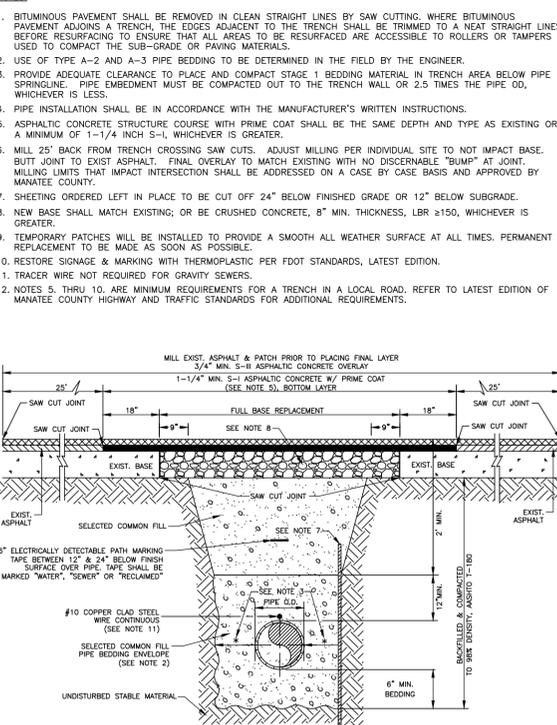
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	RESTRAINED LENGTHS FOR PVC PIPE	UG-8
REV. BY	DATE	DATE OF APPROVAL
	February 25, 2020	

MANATEE COUNTY PUBLIC WORKS DEPARTMENT	RESTRAINED LENGTHS FOR DIP	UG-9
REV. BY	DATE	DATE OF APPROVAL
	February 25, 2020	

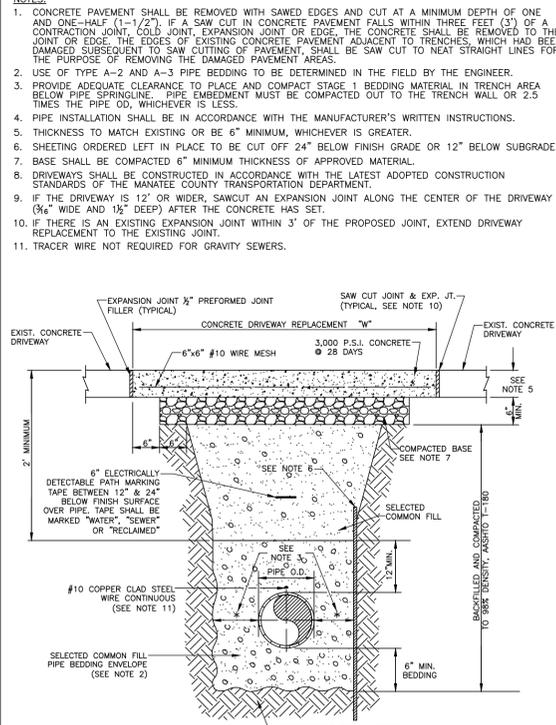
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	RESTRAINED LENGTHS FOR PIPE	UG-10
REV. BY	DATE	DATE OF APPROVAL
	February 25, 2020	



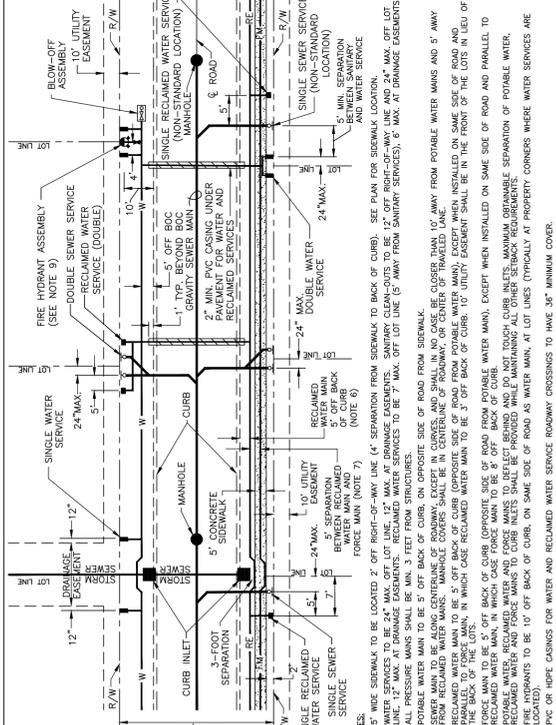
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	TRENCH WITH UNIMPROVED SURFACE TYPE A-1 PIPE BEDDING	UG-11
REV. BY	DATE	DATE OF APPROVAL
	February 25, 2020	



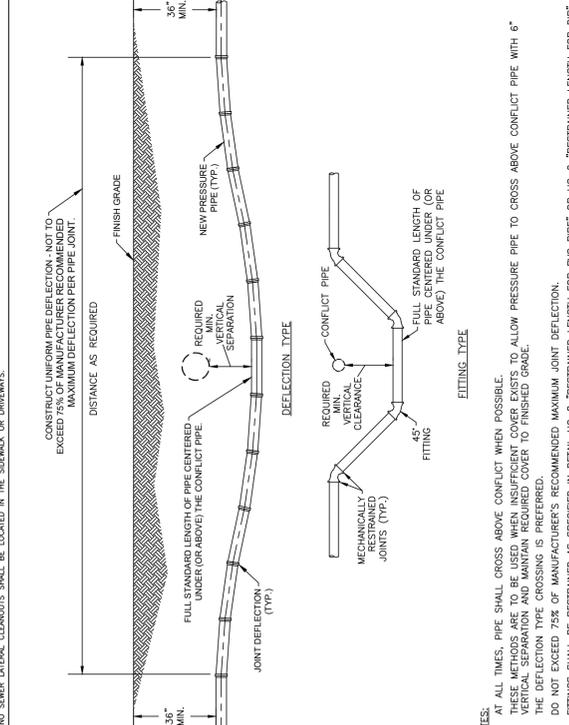
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING (CROSSING)	UG-12
REV. BY	DATE	DATE OF APPROVAL
	February 25, 2020	



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



MANATEE COUNTY PUBLIC WORKS DEPARTMENT	UTILITY LAYOUT FOR 50' R/W	UG-17
REV. BY	DATE	DATE OF APPROVAL
	February 25, 2020	



MANATEE COUNTY PUBLIC WORKS DEPARTMENT	PRESSURE PIPE DEFLECTION AT UTILITY CROSSING	UG-18
REV. BY	DATE	DATE OF APPROVAL
	February 25, 2020	

NO.	REVISION DESCRIPTION	BY	DATE

WHITFIELD COUNTRY CLUB HEIGHTS WATER MAIN REPLACEMENT DETAILS



PROJECT #	404.6109570	CODY KEIME, P.E.
SURVEY #	21-2690	FLORIDA PROFESSIONAL ENGINEER
SEC./TWN./RGE	24-355-17E	No. 92102
SCALE	N.T.S.	1/24/20
SURVEYED	HSS	02/2022
DESIGNED	CAK	10/2022
DRAWN	CAK	12/2022
CHECKED	CAK	12/2022

MANATEE COUNTY PUBLIC WORKS DEPARTMENT, 1022 26th Avenue East, Bradenton, FL 34208

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:
 - a. 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
 - c. 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 ANWA 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 SWABING PER SECTION 4.6 OF ANWA 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 PROPOSED TIE-IN VALVE AND THE FIRST DOWNSTREAM VALVE FROM THE TEMPORARY JUMPER LOCATION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TEMPORARY JUMPER CONNECTION NOTES	UW-24
REV. BY	DATE		
	<u>February 25, 2020</u>		
	DATE OF APPROVAL		

NO.	REVISION DESCRIPTION	BY	DATE

WHITFIELD COUNTRY CLUB HEIGHTS WATER MAIN REPLACEMENT DETAILS



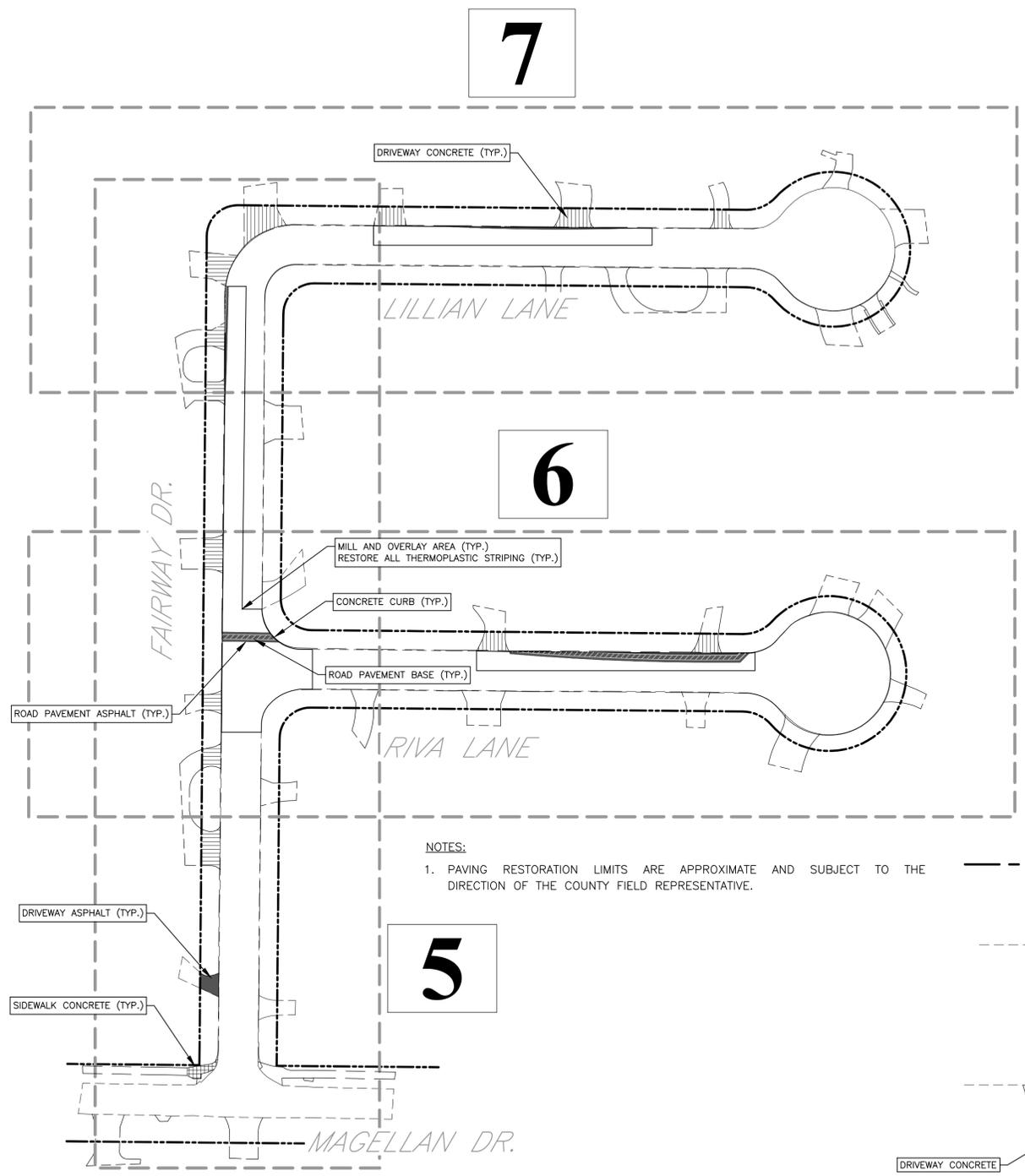
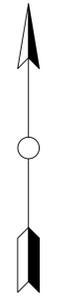
PROJECT #	404.6109570
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SCALE	N.T.S.
SURVEYED	HSS 02/2022
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DRAWN	CAK 12/2022
CHECKED	CAK 12/2022

CODY KEIME, P.E.

FLORIDA PROFESSIONAL ENGINEER
No. 92102
STATE OF FLORIDA
1/24/23
PROFESSIONAL ENGINEER

Signature: _____ Date: _____

I:\Projects\2023\17172023\1028 AM Casey Keime\17172023\Whitfield Country Club Heights\DWG\DWG\Whitfield_Country_Club_Heights_UW24.dwg, DETAILS 3, 1/17/2023 10:28 AM Casey Keime, 171, ANSI, 011 Brees D (34.00 x 22.00 inches), UC-2018.S18

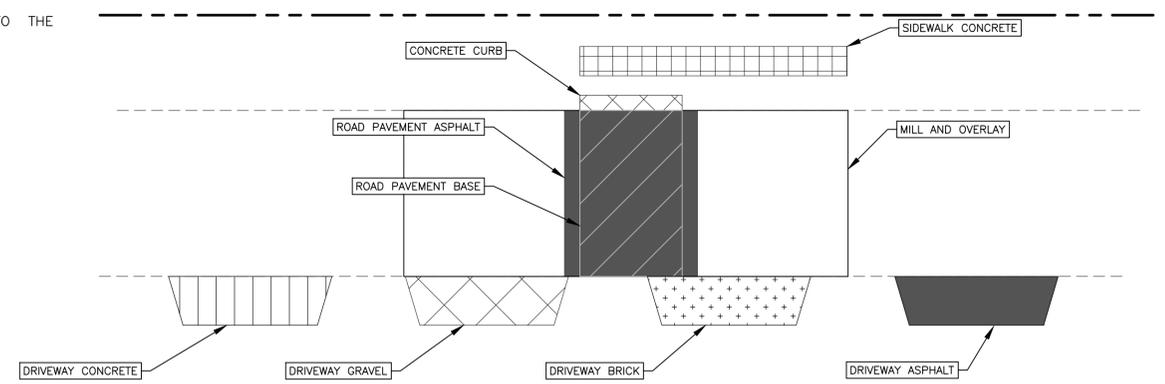


THERMOPLASTIC STRIPING RESTORATION	QTY.	UNITS
STOP BAR, WHITE, 24"	0	LF
WHITE, 6"	0	LF
DOUBLE YELLOW, 6"	0	LF
CROSS WALK, SPECIAL EMPHASIS FDOT 77-001	0	LF

RESTORATION QUANTITIES

AREA	PAVEMENT RESTORATION	QTY.	UNITS
	CONCRETE CURB	90	LF
	ROAD PAVEMENT BASE	55	SY
	ROAD PAVEMENT ASPHALT	124	SY
	MILL & OVERLAY	1123	SY
	SIDEWALK CONCRETE	13	SY
	DRIVEWAY CONCRETE	314	SY
	DRIVEWAY GRAVEL	0	SY
	DRIVEWAY ASPHALT	15	SY
	SOD	1,380	SY

TYPICAL HATCH PATTERNS



NOTES:
1. PAVING RESTORATION LIMITS ARE APPROXIMATE AND SUBJECT TO THE DIRECTION OF THE COUNTY FIELD REPRESENTATIVE.

NO.	REVISION DESCRIPTION	BY	DATE

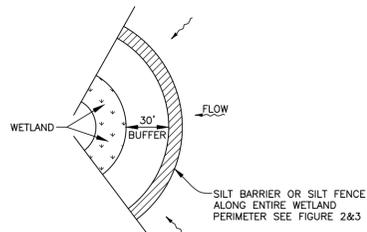
**WHITFIELD COUNTRY CLUB HEIGHTS
WATER MAIN REPLACEMENT
RESTORATION PLAN WEST**



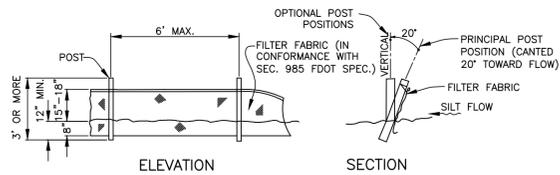
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SURVEY #	21-2690
SEC./TWN./RGE	24-35S-17E
SCALE	1"=50'
SURVEYED	HSS 02/2022
DESIGNED	CAK 10/2022
DRAWN	CAK 12/2022
CHECKED	CAK 12/2022

CODY KEIME, P.E.
 FLORIDA PROFESSIONAL ENGINEER
 No. 92102
 STATE OF FLORIDA
 1/24/23
 PROFESSIONAL ENGINEER
 Signature: _____ Date: _____

I:\Projects\2023\10-25 AM Casey Keime, P.E.\17772023 10-25 AM Casey Keime, P.E.\ANSI.dwg (11/24/23) 10:25 AM Casey Keime, P.E.

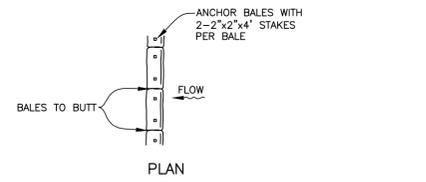


WETLAND BUFFER
FIGURE 1

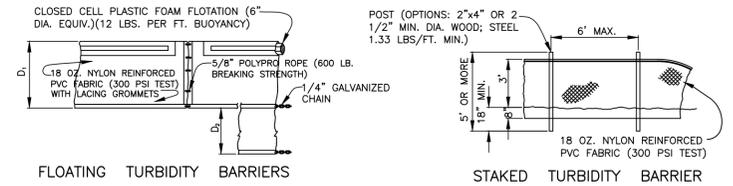


TYPICAL SILT FENCE
FIGURE 2

NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).



TYPICAL BALE SILT BARRIER
FIGURE 3

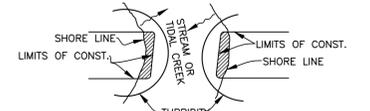


FLOATING TURBIDITY BARRIERS

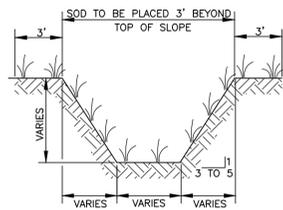
STAKED TURBIDITY BARRIER

D₁ = 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS). D₂ = 5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5'). CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO(2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

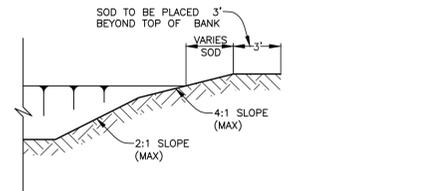
NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.



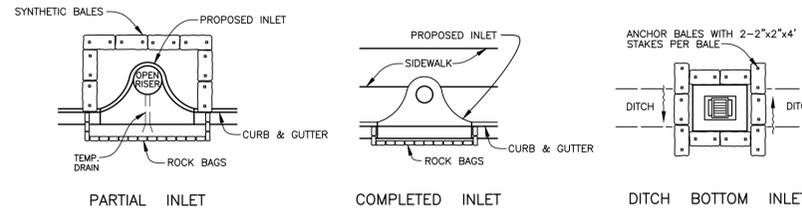
TURBIDITY BARRIERS
FIGURE 4



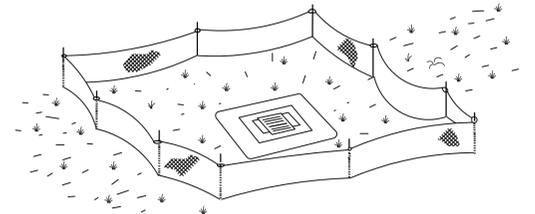
TYPICAL SWALE SECTION
FIGURE 5



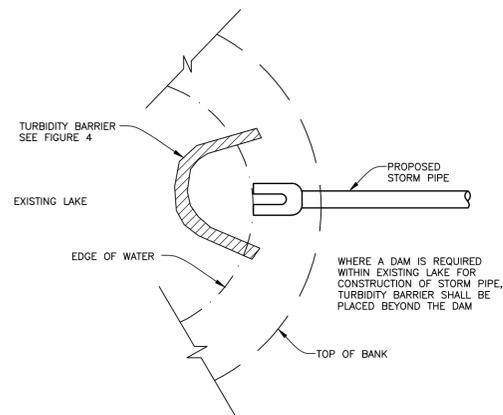
TYPICAL RETENTION/DETECTION POND SECTION
FIGURE 6



SYNTHETIC BALE PROTECTION AROUND INLETS OR SIMILAR STRUCTURES
FIGURE 7

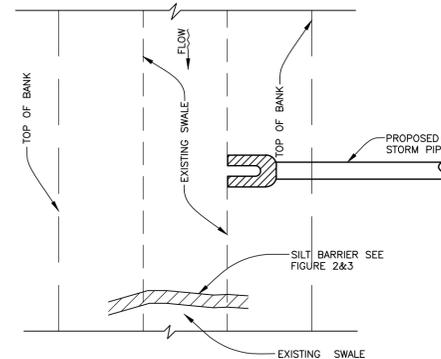


TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS
STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS
FIGURE 8

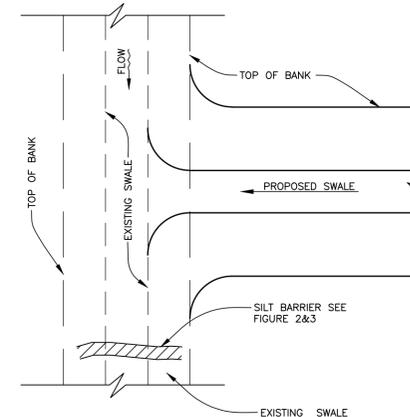


TURBIDITY BARRIER AT CONNECTION OF STORM PIPE TO EXISTING LAKE
FIGURE 9

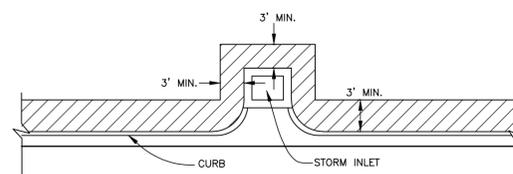
WHERE A DAM IS REQUIRED WITHIN EXISTING LAKE FOR CONSTRUCTION OF STORM PIPE, TURBIDITY BARRIER SHALL BE PLACED BEYOND THE DAM



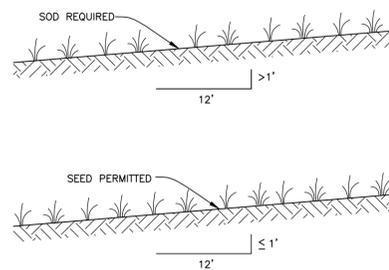
SILT BARRIER AT CONNECTION OF STORM PIPE TO EXISTING SWALE
FIGURE 10



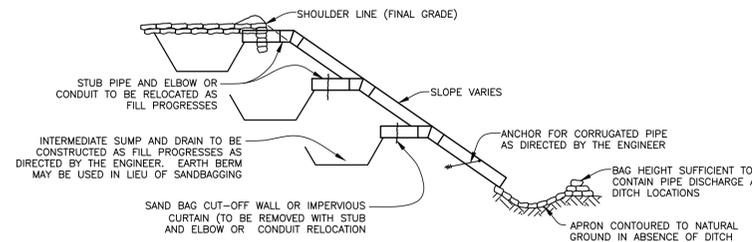
SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE
FIGURE 11



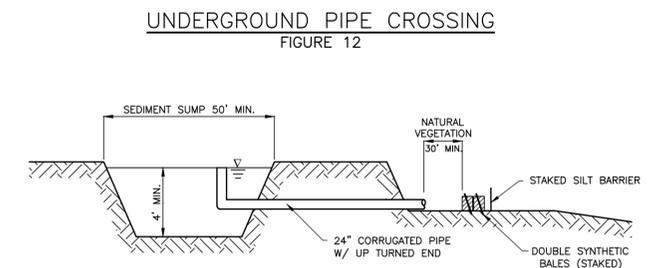
SOD ALONG CURB AND AROUND INLET
FIGURE 14



GRASS SLOPES
FIGURE 13



SECTION AA
TEMPORARY SLOPE DRAIN
FIGURE 15



SEDIMENT SUMP SECTION
FIGURE 16

NOTE: REFERENCE THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, LATEST EDITION, FOR ALL TEMPORARY EROSION CONTROL MEASURES

NO.	REVISION DESCRIPTION	BY	DATE

WHITFIELD COUNTRY CLUB HEIGHTS
WATER MAIN REPLACEMENT
EROSION CONTROL



PROJECT #	404.6109570
SURVEY #	21-2690
SEC./TWN./RGE	24-35S-17E
SCALE	N.T.S.
SURVEYED	HSS 02/2022
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