

CONSTRUCTION PLANS FOR Mariner Village Square PUD

PLAT INFRASTRUCTURE

MARTIN COUNTY, FLORIDA
SECTION 31, TOWNSHIP 38 SOUTH, RANGE 42 EAST

CONTACTS

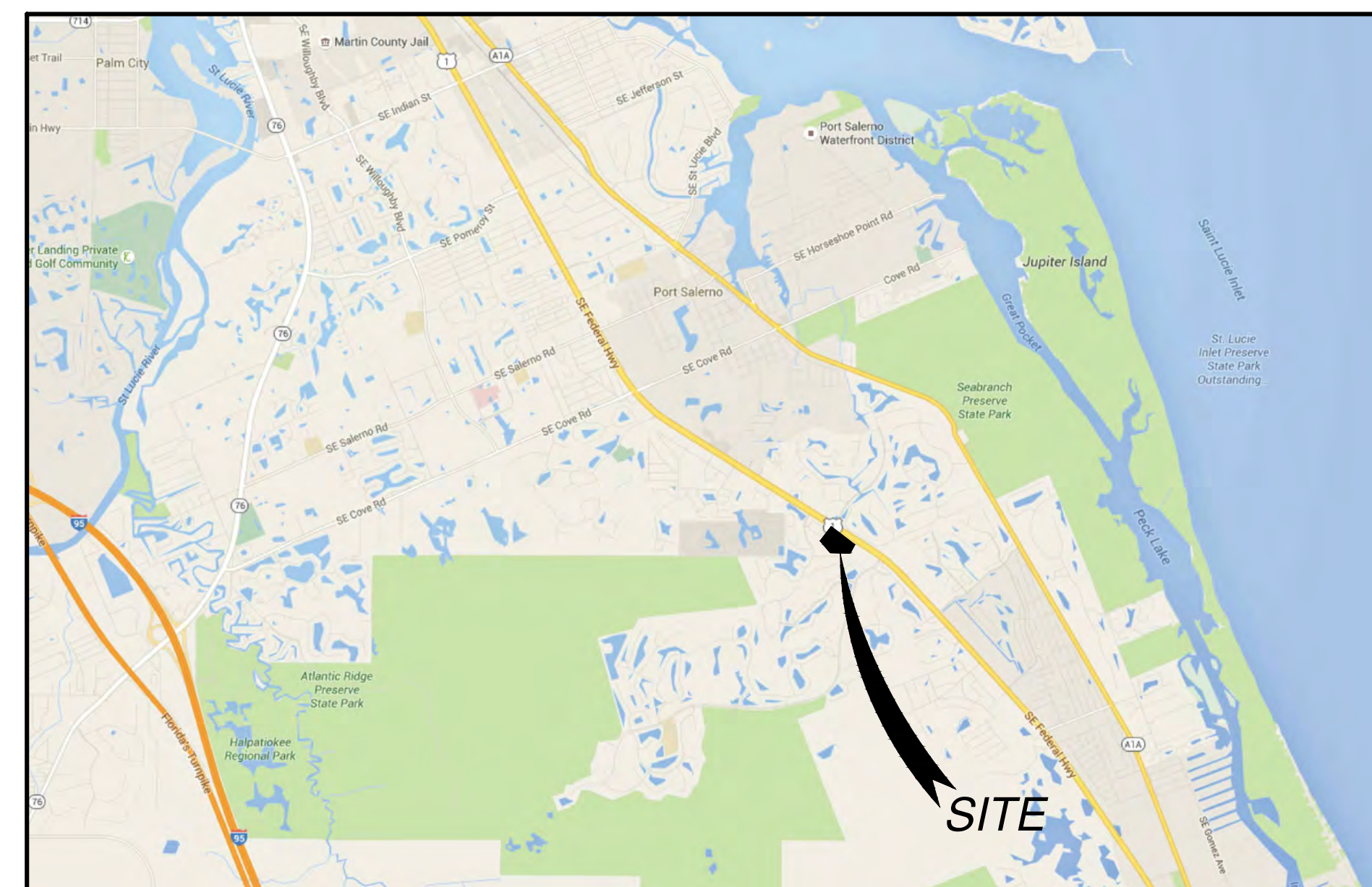
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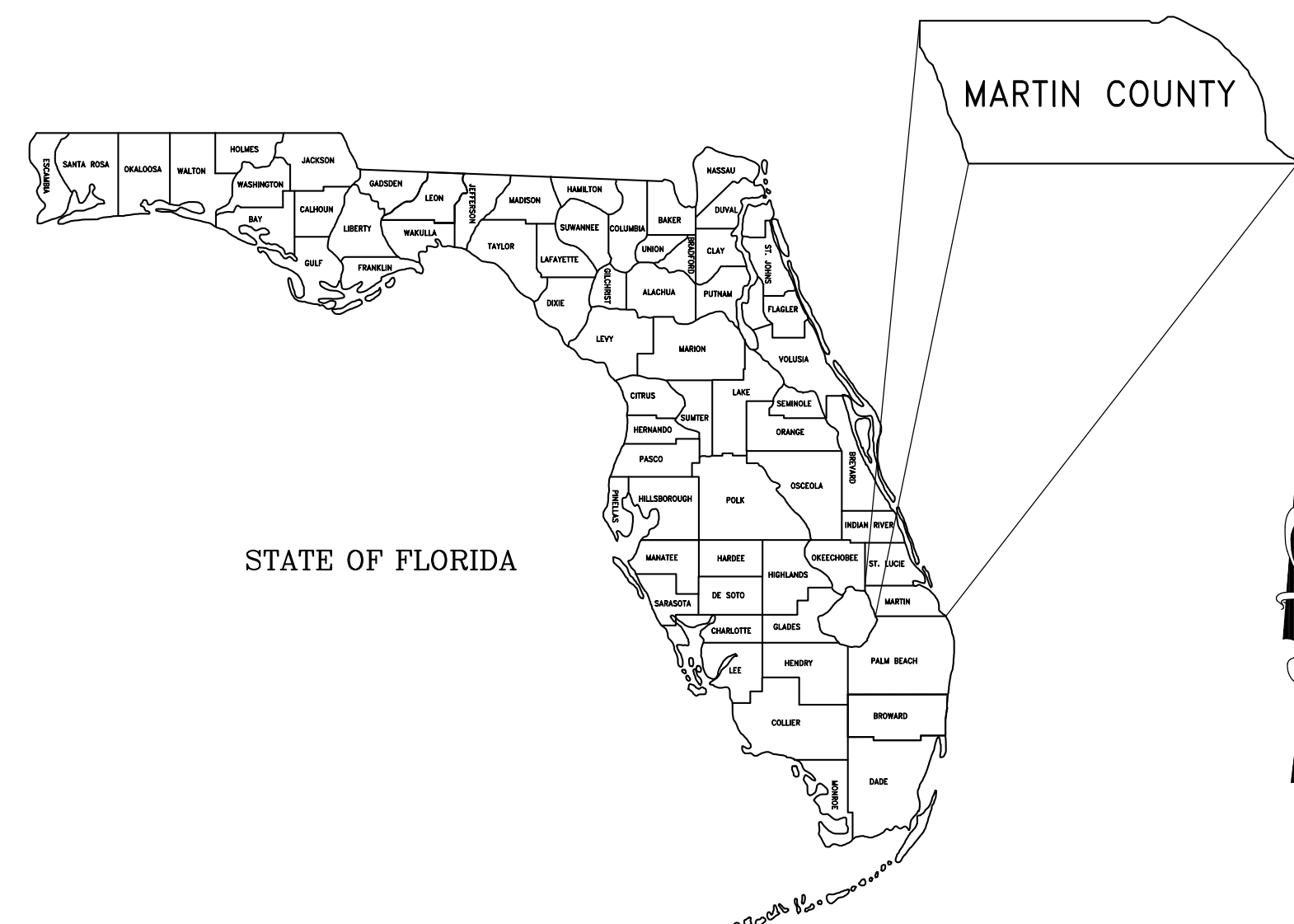
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LOCATION MAP
N.T.S.



VICINITY MAP
N.T.S.

DRAWING INDEX

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GENERAL NOTES

1. THE CONTRACTOR SHALL HAVE ONE SIGNED COPY OF THE APPROVED PLANS AND THE APPROPRIATE STANDARDS AND SPECIFICATIONS ALONG WITH A COPY OF ALL APPLICABLE PERMITS AND AGREEMENTS NEEDED FOR THE JOB ON-SITE AT ALL TIMES.
2. THE CONTRACTOR SHALL MEET OR EXCEED ALL SITE WORK SPECIFICATIONS AND APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS FOR ALL MATERIALS AND CONSTRUCTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS IS ENCOUNTERED.
5. NO REVISION SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE. AT ALL TIMES.
7. ANY REFERENCE TO PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.

MARTIN COUNTY UTILITIES TECHNICAL SERVICES

APPROVED – AS NOTED

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THE ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

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PROJECT NO
010318-02-004

L. LEONARD, P.E.
FL. LICENSE NO. 61737

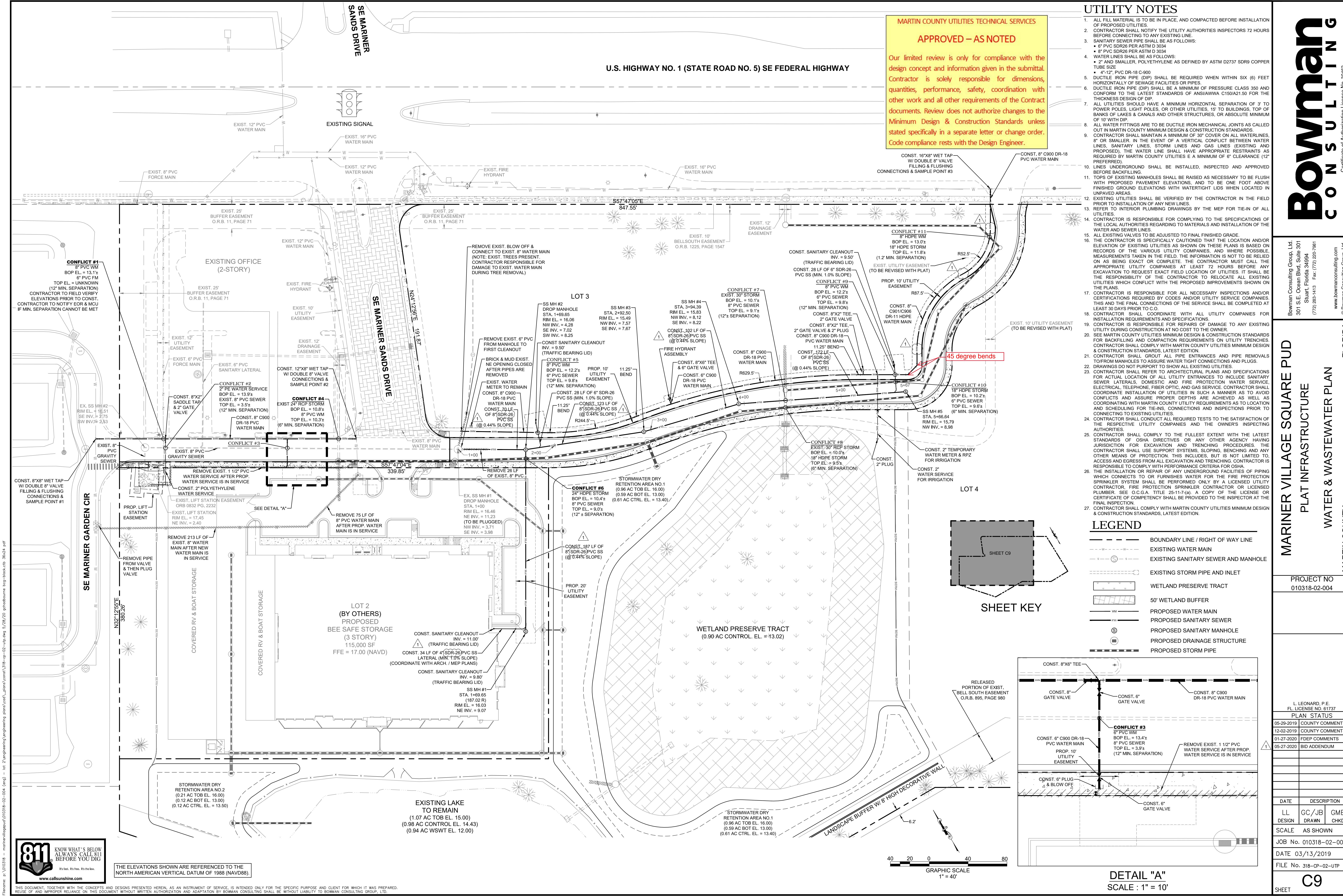
PLAN STATUS
05-29-2019 COUNTY COMMENTS
12-02-2019 COUNTY COMMENTS
01-27-2020 FDEP COMMENTS

DATE	DESCRIPTION
LL	GC / JB
DESIGN	DRAWN
	GMB
	CHKD

SCALE AS SHOWN
JOB No. 010318-02-004
DATE 03/13/2019

FILE No. 318-CP-02-COV

SHEET
C0



UTILITY NOTES

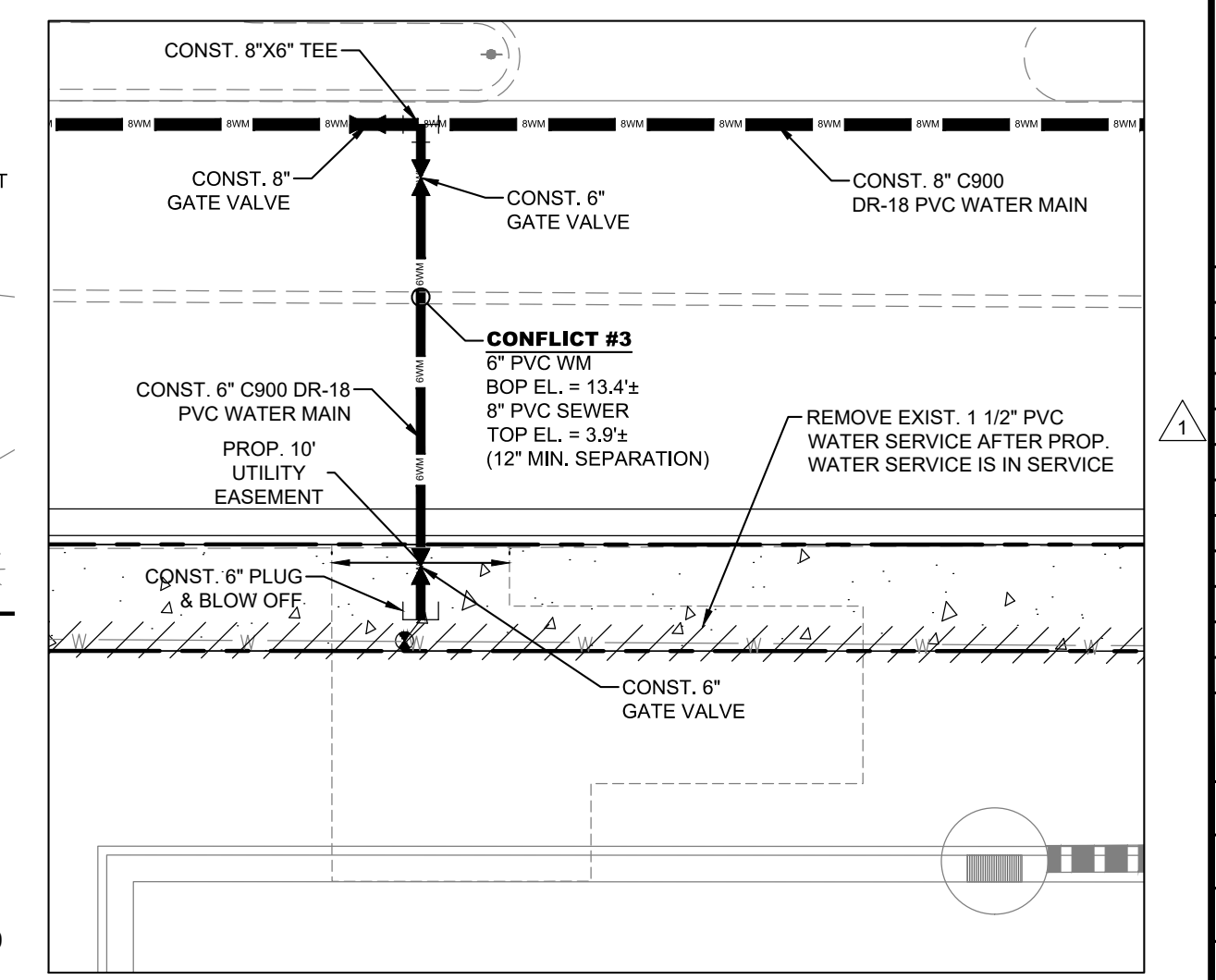
1. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
3. SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
 - 8" PVC SDR26 PER ASTM D 3034
 - 8" PVC SDR26 PER ASTM D 3034
4. WATER LINES SHALL BE AS FOLLOWS:
 - 4" AND SMALLER, POLYETHYLENE AS DEFINED BY ASTM D2737 SDR9 COPPER TUBE SIZE
 - 4"-12" PVC DR-18 C-900
5. DUCTILE IRON PIPE (DIP) SHALL BE REQUIRED WHEN WITHIN SIX (6) FEET HORIZONTALLY OF SEWAGE FACILITIES OR PIPES.
6. DUCTILE IRON PIPE (DIP) SHALL BE A MINIMUM OF PRESSURE CLASS 350 AND CONFORM TO THE LATEST STANDARDS OF ANSI/AWWA C150/A21.50 FOR THE THICKNESS DESIGN OF DIP.
7. ALL UTILITIES SHOULD HAVE A MINIMUM HORIZONTAL SEPARATION OF 3' TO POWER POLES, LIGHT POLES, OR OTHER UTILITIES. 15' TO BUILDINGS, TOP OF BANKS OF LAKES & CANALS AND OTHER STRUCTURES, OR ABSOLUTE MINIMUM OF 10' WITH DIP.
8. ALL WATER FITTINGS ARE TO BE DUCTILE IRON MECHANICAL JOINTS AS CALLED OUT IN MARTIN COUNTY MINIMUM DESIGN & CONSTRUCTION STANDARDS.
9. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 30" COVER ON ALL WATER LINES, 8" OR SMALLER, IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED). THE WATER LINE SHALL HAVE APPROPRIATE RESTRAINTS AS REQUIRED BY MARTIN COUNTY UTILITIES E A MINIMUM OF 6" CLEARANCE (12" PREFERRED).
10. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
11. TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND TO BE ONE FOOT ABOVE FINISHED GROUND ELEVATIONS WITH WATERTIGHT LIDS WHEN LOCATED IN UNPAVED AREAS.
12. EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
13. REFER TO INTERIOR PLUMBING DRAWINGS BY THE MEP FOR TIE-IN OF ALL UTILITIES.
14. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES REGARDING TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
15. ALL EXISTING VALVES TO BE ADJUSTED TO FINAL FINISHED GRADE. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
17. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED AT LEAST 30 DAYS PRIOR TO C.O.
18. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
19. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OR DAMAGE TO ANY EXISTING UTILITY DURING CONSTRUCTION AT NO COST TO THE OWNER.
20. SEE MARTIN COUNTY UTILITIES MINIMUM DESIGN & CONSTRUCTION STANDARDS FOR BACKFILLING AND COMPACTION REQUIREMENTS ON UTILITY TRENCHES. CONTRACTOR SHALL COMPLY WITH MARTIN COUNTY UTILITIES MINIMUM DESIGN & CONSTRUCTION STANDARDS, LATEST EDITION.
21. CONTRACTOR SHALL GROUT ALL PIPE ENTRIES AND PIPE REMOVALS TO FORM MANHOLES TO ASSURE WATER TIGHT CONNECTIONS AND PLUGS.
22. DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES.
23. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY TRENCHES TO INCLUDE SANITARY SEWER LATERALS, DOWN AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE, FIBER OPTIC, AND GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH MARTIN COUNTY UTILITY REQUIREMENTS AS TO LOCATION AND SCHEDULING FOR TIE-INS, CONNECTIONS AND INSPECTIONS PRIOR TO CONNECTING TO EXISTING UTILITIES.
24. CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANIES AND THE OWNER'S INSPECTING AUTHORITIES.
25. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND ANY OTHER MEANS OF PROTECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
26. THE INSTALLATION OR REPAIR OF ANY UNDERGROUND FACILITIES OF PIPING WHICH CONNECTS TO OR FURNISHES WATER FOR THE FIRE PROTECTION SPRINKLER SYSTEM SHALL BE PERFORMED ONLY BY A LICENSED UTILITY CONTRACTOR, FIRE PROTECTION SPRINKLER CONTRACTOR OR LICENSED PLUMBER. SEE SECTION 01-05.6-A, TITLE 25-11-7.04. A COPY OF THE LICENSE OR CERTIFICATE OF COMPETENCY SHALL BE PROVIDED TO THE INSPECTOR AT THE FINAL INSPECTION.
27. CONTRACTOR SHALL COMPLY WITH MARTIN COUNTY UTILITIES MINIMUM DESIGN & CONSTRUCTION STANDARDS, LATEST EDITION.

MARTIN COUNTY UTILITIES TECHNICAL SERVICES

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- LEGEND**
- BOUNDARY LINE / RIGHT OF WAY LINE
 - EXISTING WATER MAIN
 - EXISTING SANITARY SEWER AND MANHOLE
 - EXISTING STORM PIPE AND INLET
 - WETLAND PRESERVE TRACT
 - 50' WETLAND BUFFER
 - PROPOSED WATER MAIN
 - PROPOSED SANITARY SEWER
 - PROPOSED SANITARY MANHOLE
 - PROPOSED DRAINAGE STRUCTURE
 - PROPOSED STORM PIPE



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MARTIN COUNTY

MARINER VILLAGE SQUARE PUD
 PLAT INFRASTRUCTURE
 WATER & WASTEWATER PLAN

PROJECT NO
 010318-02-004

L. LEONARD, P.E.
 FL LICENSE NO. 61737
PLAN STATUS

05-29-2019	COUNTY COMMENTS
12-02-2019	COUNTY COMMENTS
01-27-2020	FDEP COMMENTS
05-27-2020	BID ADDENDUM

DATE	DESCRIPTION
LL	GC / JB
DESIGN	DRAWN
	GMB
	CHKD

SCALE AS SHOWN

JOB No. 010318-02-004

DATE 03/13/2019

FILE No. 318-CP-02-UTP

C9

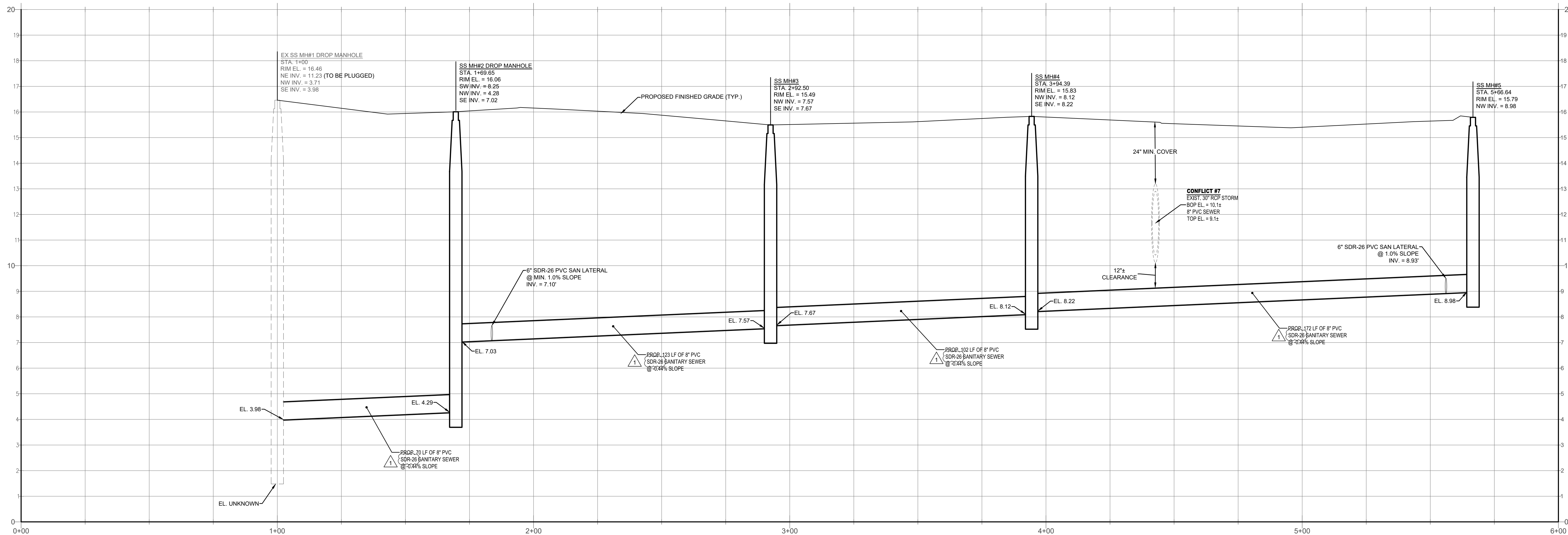
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811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG

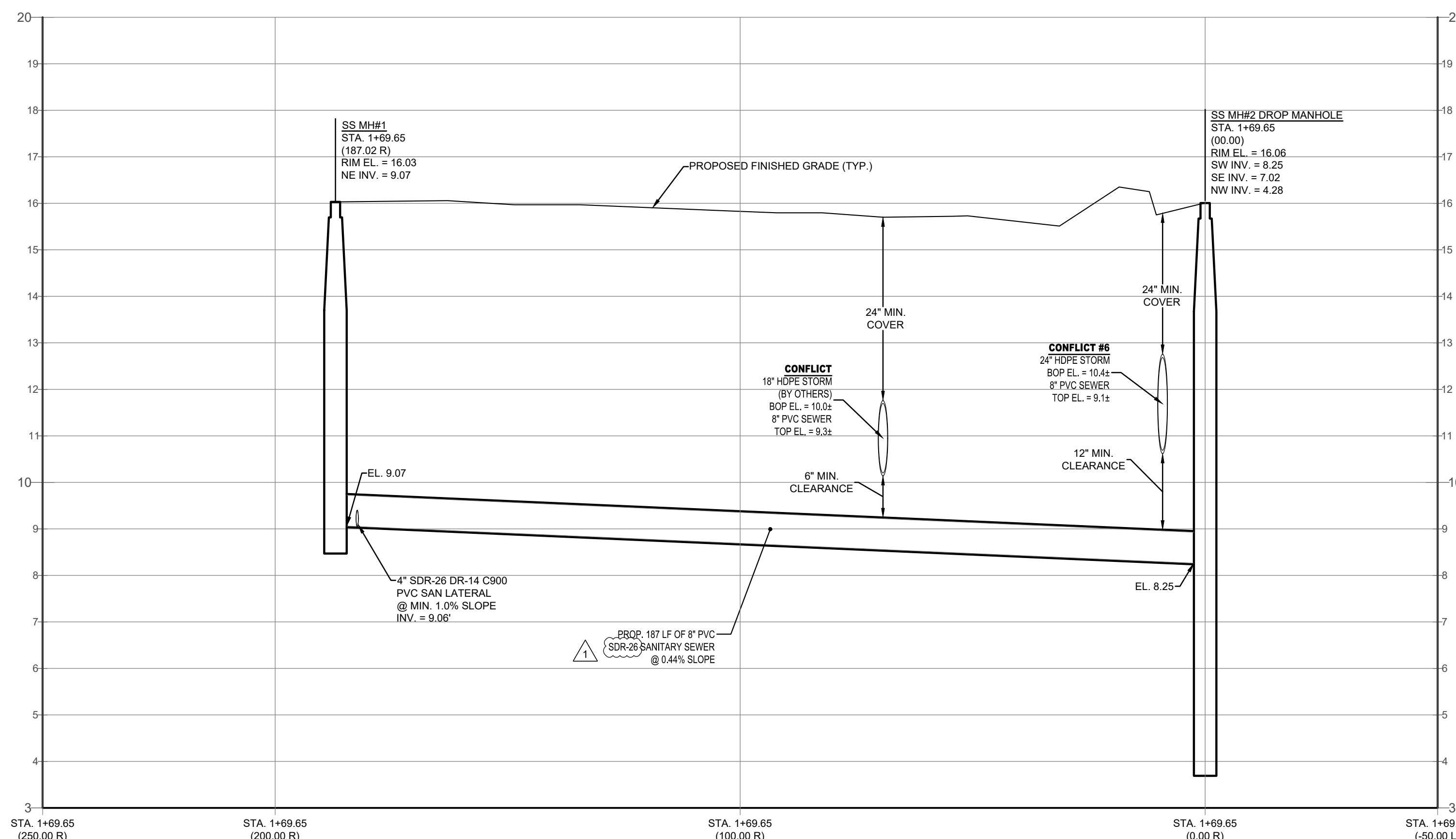
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SANITARY PROFILE #1
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'



SANITARY PROFILE #2
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'

DATE	DESCRIPTION
05-28-2019	COUNTY COMMENTS
12-02-2019	COUNTY COMMENTS
01-27-2020	FDEP COMMENTS
05-27-2020	BID ADDENDUM

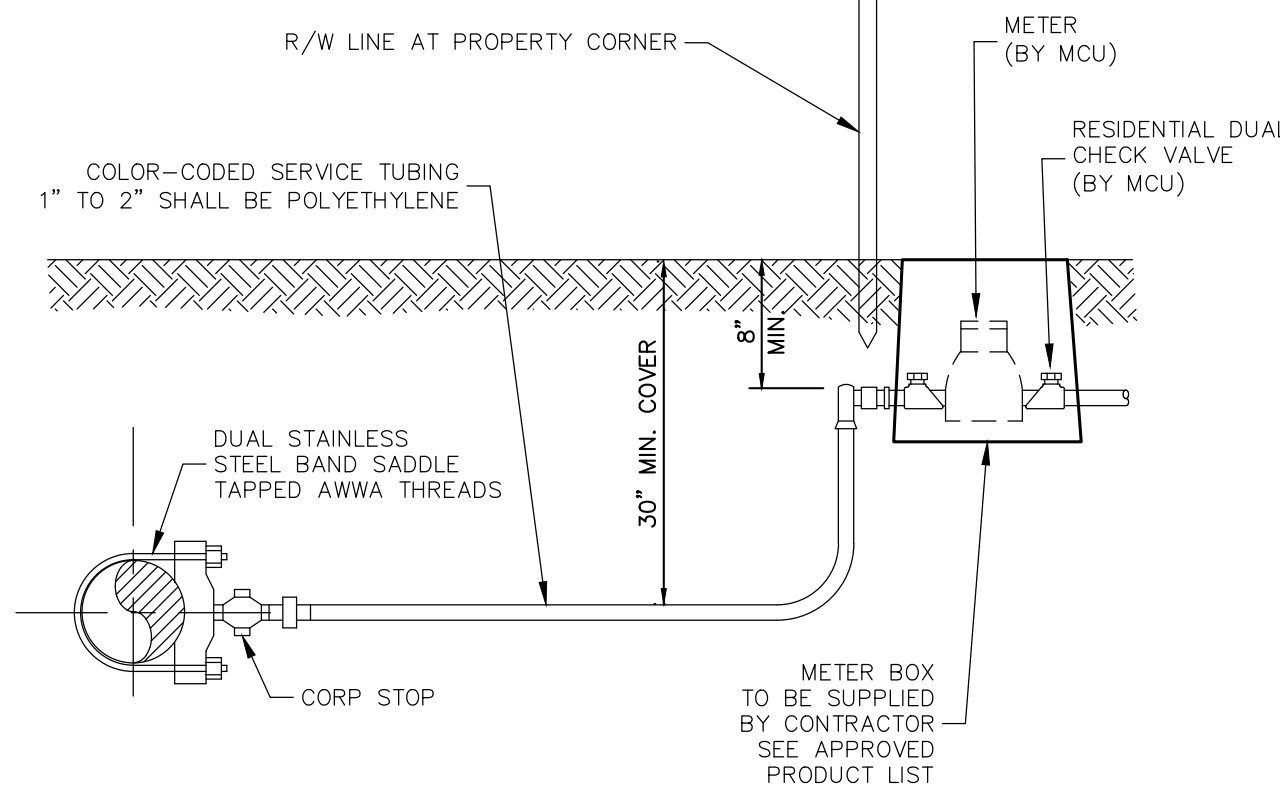
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DESIGN	DRAWN CHKD
SCALE	AS SHOWN
JOB No.	010318-02-004
DATE	03/13/2019
FILE No.	318-CP-02-PGD
C10	
SHEET	

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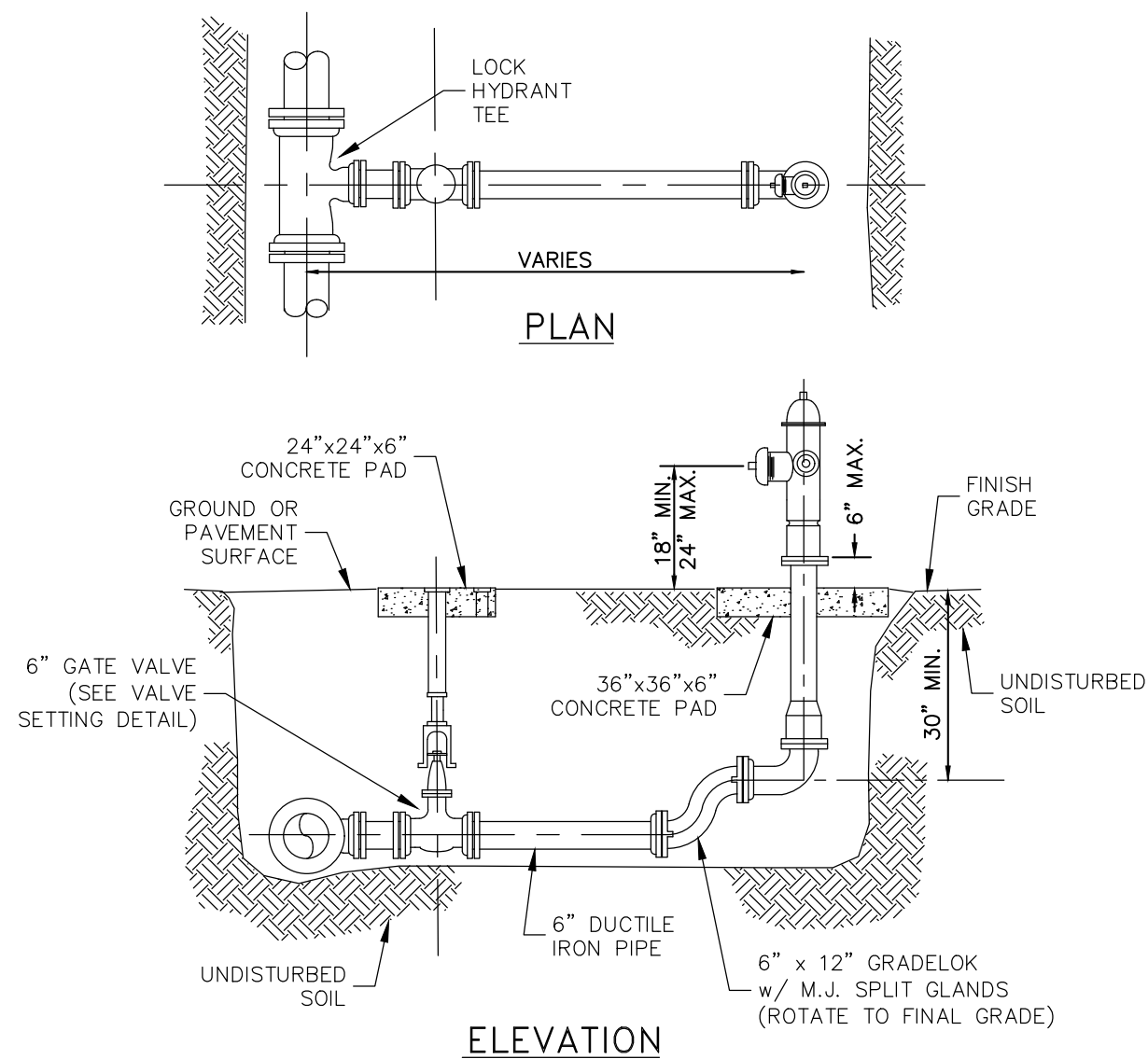


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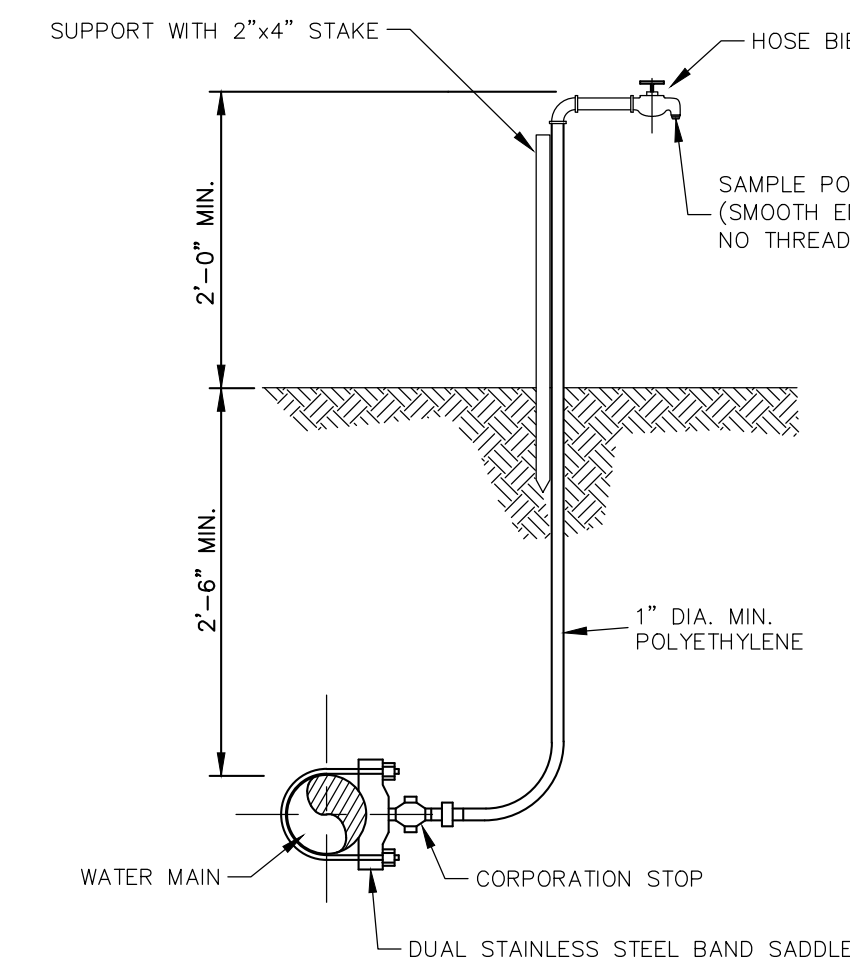
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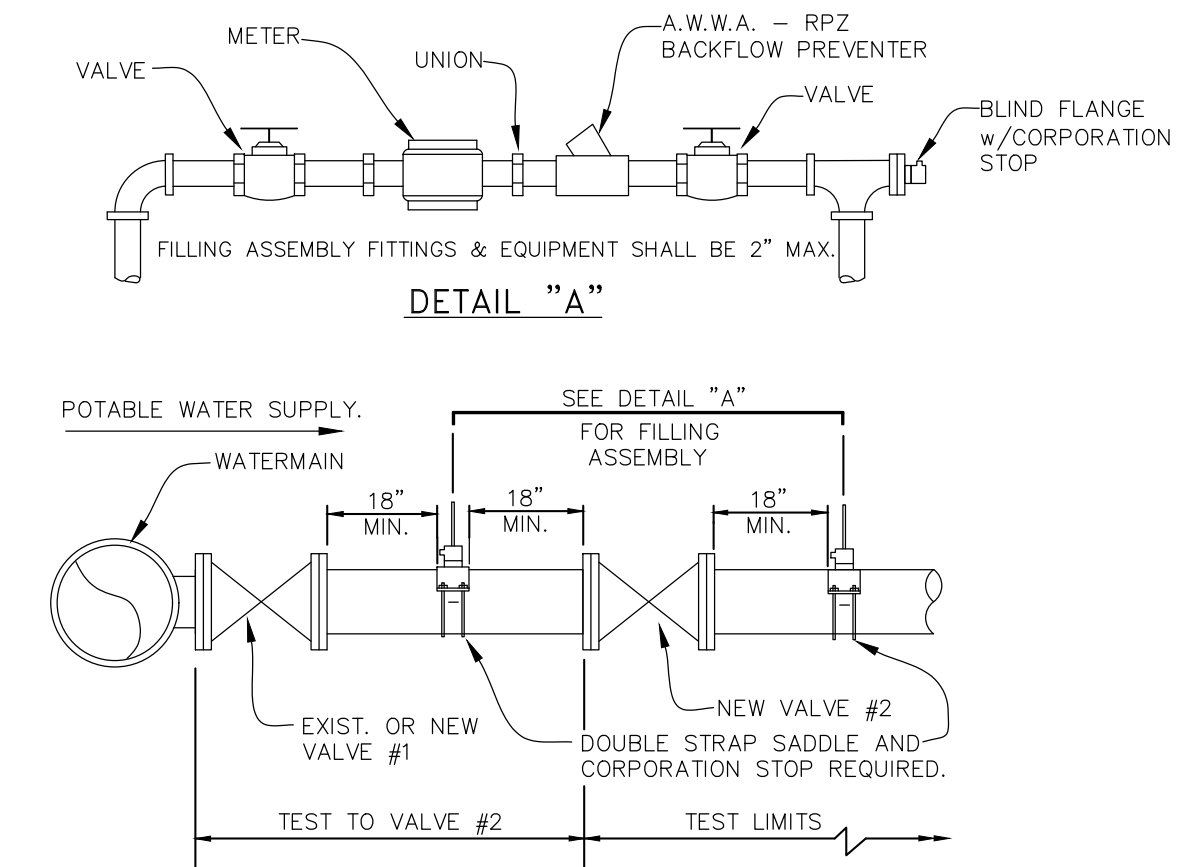
- NOTES:
- MIN. SERVICE LINES SHALL BE AS FOLLOWS: 1" FOR SINGLE AND DOUBLE SERVICES WHERE METER SIZE IS 5/8"; 2" FOR SINGLE AND DOUBLE SERVICES WHERE METER SIZE IS 1".
 - COMPRESSION FITTINGS SHALL BE SUITABLE FOR TUBING USED AND REQUIRE METAL (S.S.) INSERTS.
 - DOUBLE SERVICES REQUIRE "U" BRANCH WITH ANGLE CURB STOPS.
 - POLYETHYLENE SHALL BE AS DEFINED BY A.S.T.M. D2737 SDR9 COPPER TUBE SIZE (CTS) AND A.W.W.A. 901, LATEST EDITION, AND BE PRESSURE RATED FOR 200 PSI AND SHALL BE "ENDOPURE" BY ENDOT INDUSTRIES, INC., ROCKAWAY, N.J., OR APPROVED EQUAL.
 - TUBING SHALL BE MARKED WITH SIZE, MANUFACTURER'S NAME, WORKING PRESSURE, NATIONAL SANITATION FOUNDATION APPROVAL, A.S.T.M. SPECIFICATION AND PRODUCTION CODE. TUBING SHALL HAVE AN OUTSIDE DIAMETER EQUIVALENT TO THE OUTER DIAMETER OF COPPER TUBING.
 - SERVICE LOCATOR WIRE SHALL BE LAID IN THE TRENCH WITH ALL SERVICES, CONNECTED TO THE MAIN WIRE AND WRAPPED AROUND THE SERVICE PIPING OR TUBING. WIRE FOR POTABLE WATER SHALL BE BLUE IN COLOR.



- NOTES:
- HYDRANTS SHALL BE INSTALLED PLUMB AND TRUE.
 - VALVES SHALL BE PLACED ADJACENT TO MAIN, AND TIED TO TEE.
 - ANCHOR TEES ARE REQUIRED.
 - ALL HYDRANTS SHALL BE TIED OFF OF MAIN.
 - HYDRANTS SHALL NOT BE PLACED IN SIDEWALK, ROADWAYS OR BIKEPATHS.
 - PIPE FROM VALVE TO HYDRANT SHALL BE RESTRAINED.
 - HYDRANT BARREL AND BONNET COLOR TO BE OSHA YELLOW.
 - THE CONNECTOR PIPE SHALL BE CEMENT LINED DUCTILE IRON, CLASS 350 AND POSITIONED BETWEEN THE FIRE HYDRANT AND GATE VALVE.
 - THE CONNECTOR PIPE SHALL HAVE AN ANCHORING FEATURE AT BOTH ENDS SO THAT WHEN USED WITH M.J. SPLIT GLANDS A RESTRAINED JOINT IS PROVIDED.
 - HYDRANT EXTENSIONS SHALL NOT BE ALLOWED.
 - NEWLY CONSTRUCTED FIRE HYDRANTS THROUGHOUT THE PROJECT SHALL HAVE A RED "OUT OF SERVICE" DISK (JOSEPH G. POLLARD CO. OR EQUAL) ATTACHED TO 4" PUMPER NOZZLE CAP. DISK TO BE REMOVED AFTER WATER SYSTEM HAS BEEN APPROVED FOR SERVICE BY THE DEPARTMENT.
 - A MAXIMUM OF 20 FEET OF HORIZONTAL PIPE SHALL TYPICALLY BE INSTALLED BETWEEN THE 6" GATE VALVE AT THE WATER MAIN AND THE HYDRANT. IF IT IS NECESSARY TO INSTALL MORE THAN 20 FEET OF HORIZONTAL PIPE, AN ADDITIONAL 6" GATE VALVE WILL BE REQUIRED AT THE HYDRANT LOCATION.



- NOTES:
- SAMPLE POINT SHOULD BE A SERVICE LINE.
 - AFTER SAMPLING IS COMPLETED AND APPROVED, SHUT OFF CORP. STOP, REMOVE TUBING, PLUG WITH BRASS PLUG AND LOCATE FOR RECORD DRAWINGS.
 - MOUNT METAL OR PLASTIC TAG INDICATING "SAMPLE POINT - DO NOT TURN OFF"



- NOTES:
- BOTH VALVES SHALL BE KEPT CLOSED EXCEPT FOR FILLING, FLUSHING AND BACTERIOLOGICAL TESTING PURPOSES.
 - DEPARTMENT SHALL BE NOTIFIED BEFORE FILLING AND FLUSHING.
 - PRESSURE TEST PUMP CONNECTS TO SERVICE LINE OR BLOWOFF. NO EXTRA TAPS ARE PERMITTED UNLESS PRECEDING ARE NOT PRESENT IN TEST SECTION.
 - PRESSURE GAUGE TO BE LOCATED IN VICINITY OF TEST PUMP CONNECTION.
 - GAUGE AND RISER TO BE REMOVED AFTER PRESSURE TEST.
 - REMOVE TEMPORARY CONNECTION AT CORPORATION STOPS AFTER FILLING AND FLUSHING HAS BEEN COMPLETED.
 - INJECT CHLORINE ON PROJECT SIDE OF BACKFLOW PREVENTER.
 - CONTRACTOR TO PROVIDE AN RPZ CERTIFICATION (LESS THAN 1 YEAR) PRIOR TO INSTALLATION.

MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS

REVISION	SERVICE CONNECTION DETAIL	DWG No.
AUGUST 2016	5/8" OR 1" METER	2

MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS

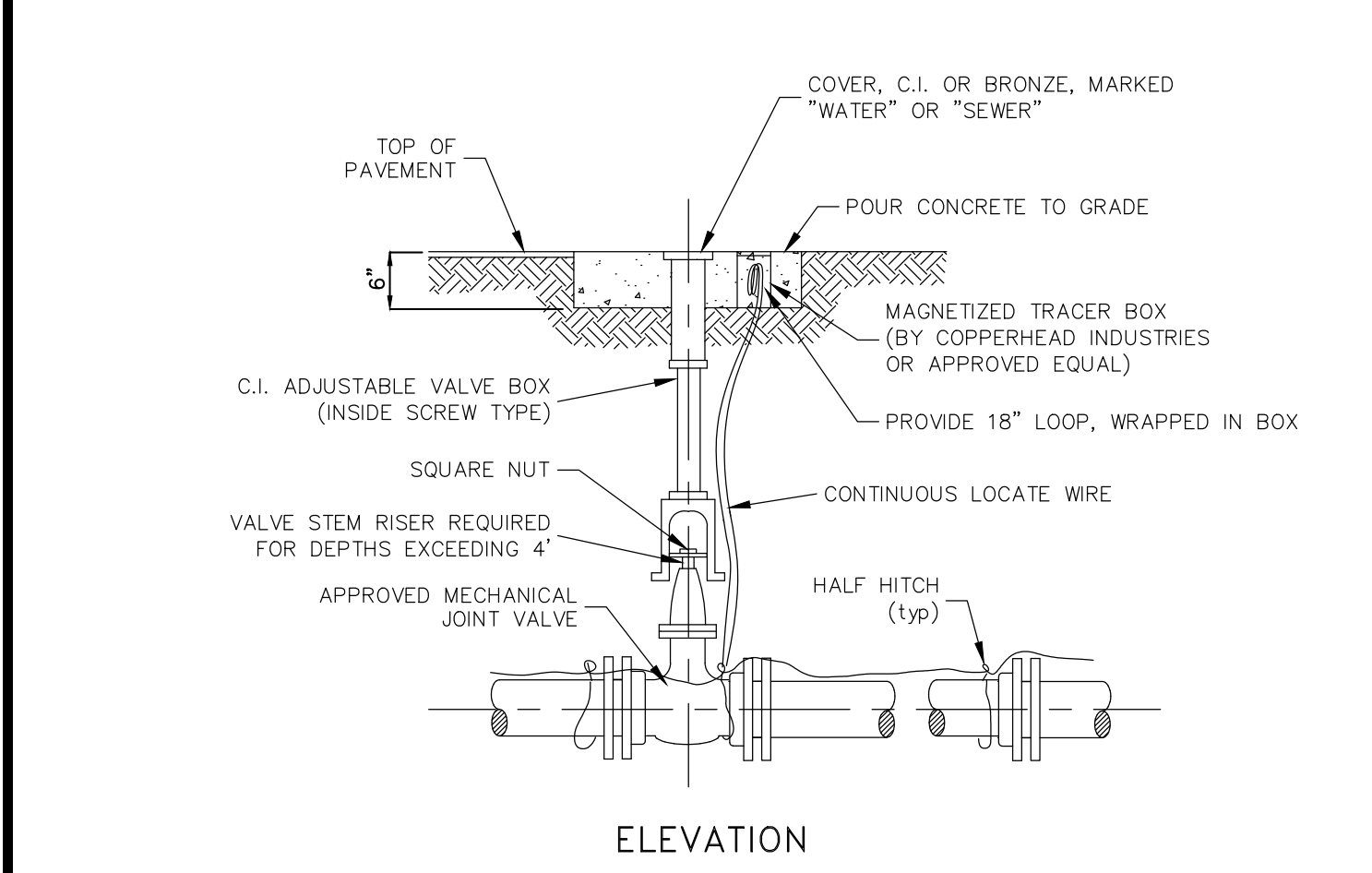
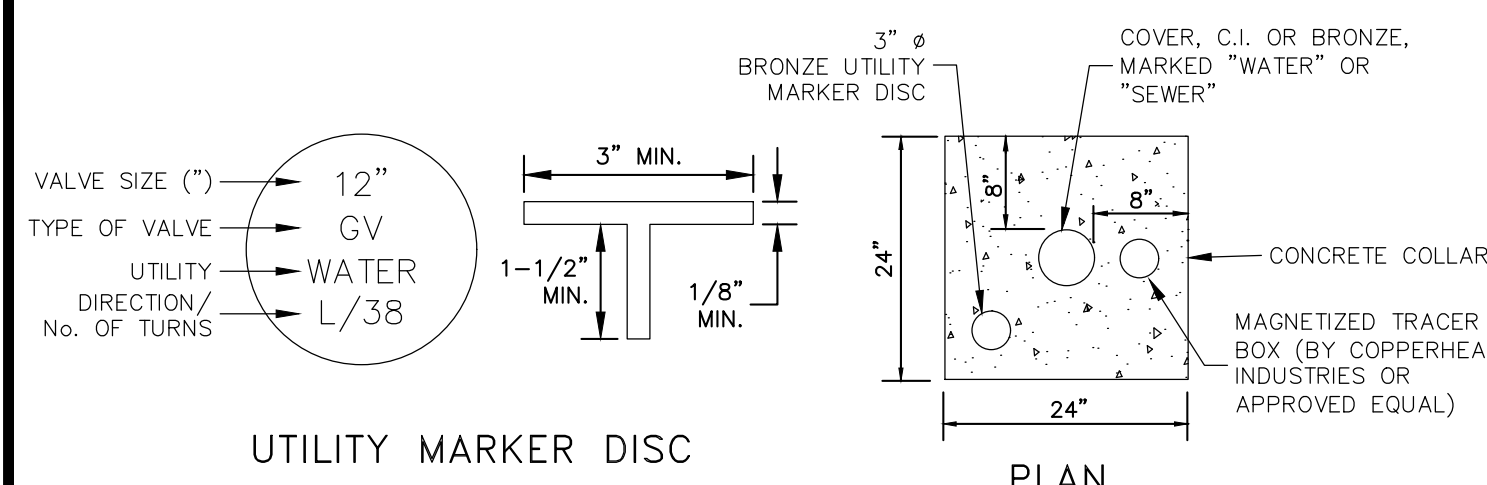
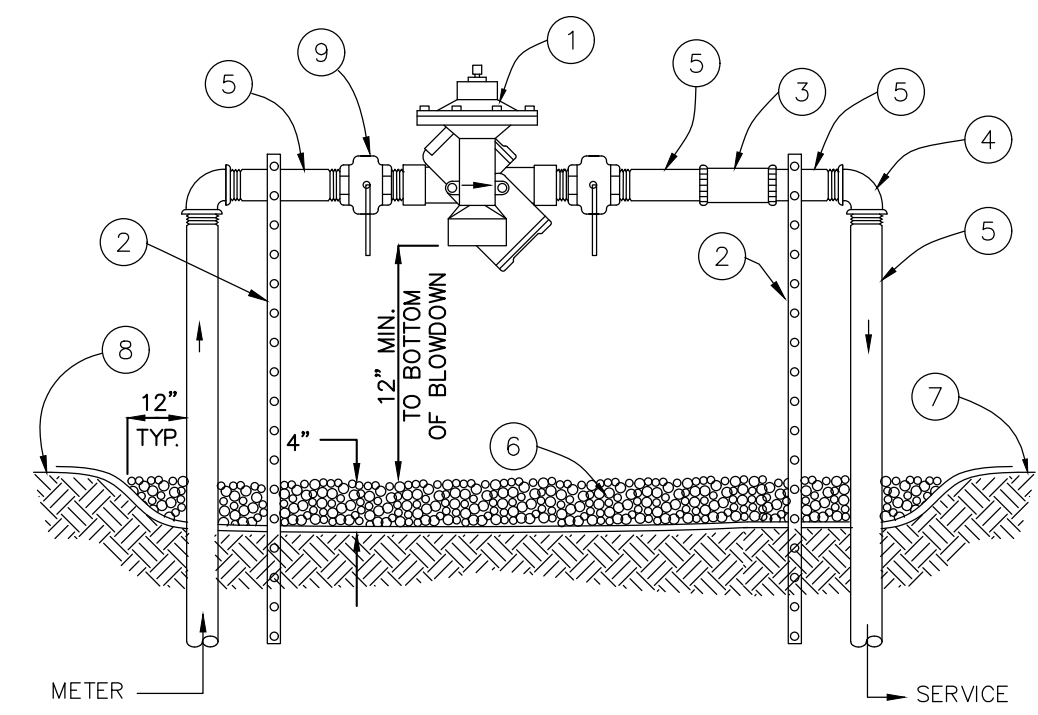
REVISION	FIRE HYDRANT INSTALLATION DETAIL AND NOTES	DWG No.
AUGUST 2016		7

MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS

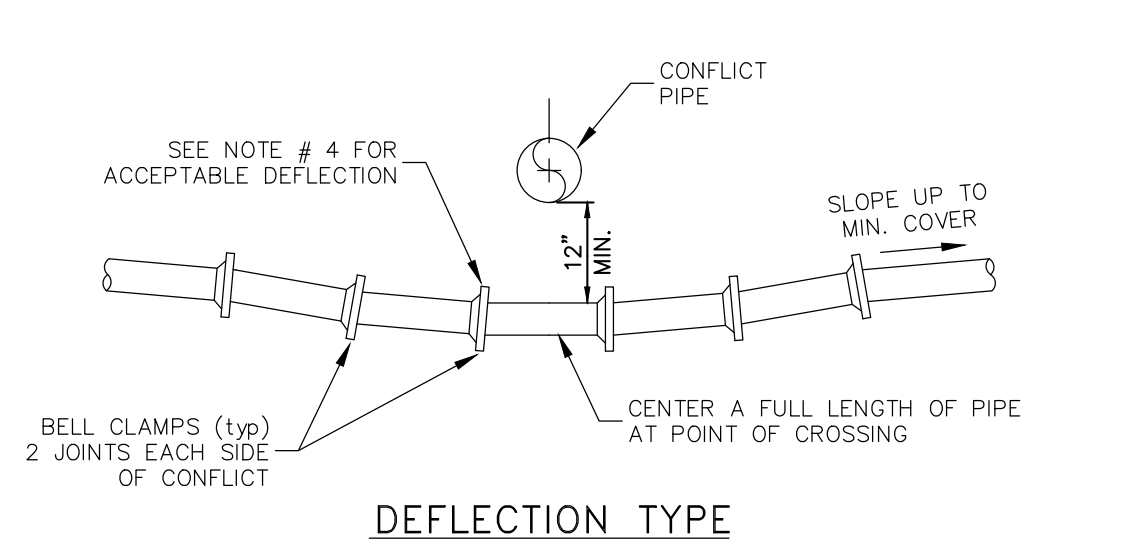
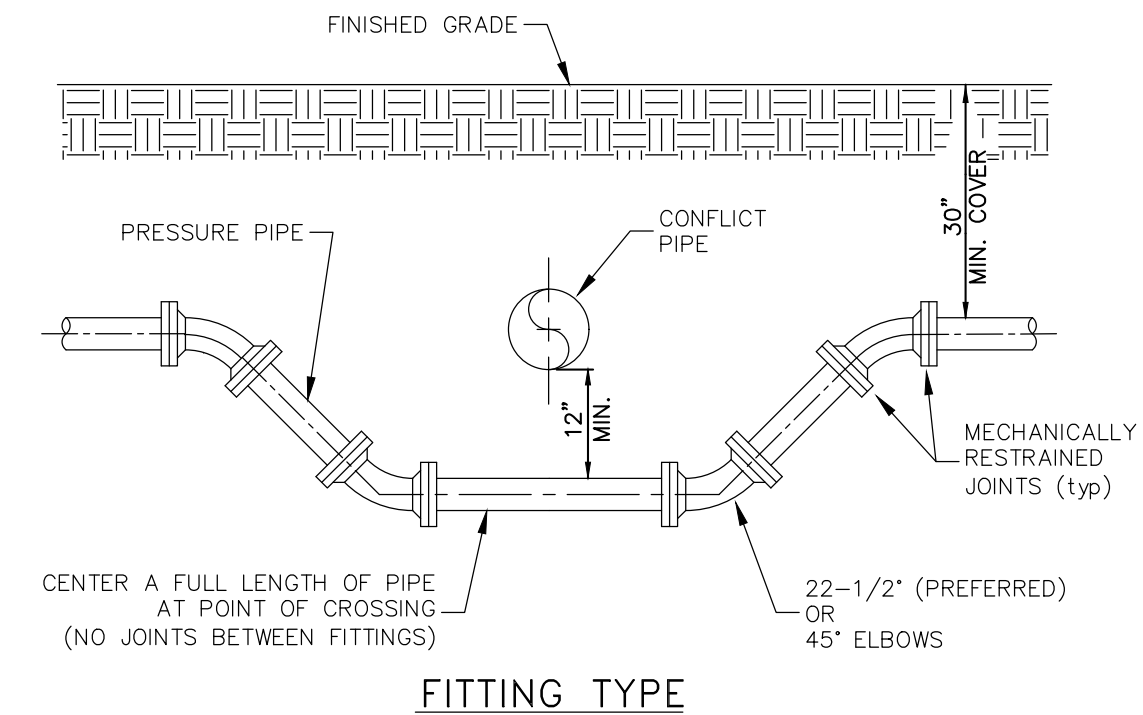
REVISION	SAMPLE POINT DETAIL	DWG No.
AUGUST 2016		9

MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS

REVISION	DOUBLE VALVE DETAIL AND FILLING AND FLUSHING CONNECTION	DWG No.
AUGUST 2016		11



- NOTES:
- A LOCATION BALL (3M EMS BALL MARKERS; WATER/BLUE, MODEL No. 1403-XR; SEWER/GREEN, MODEL No. 1404-XR OR EQUAL) SHALL BE INSTALLED AT EACH FITTING AND/OR EVERY 100 FEET OF SEPARATION.
 - FOR DEEP VALVE INSTALLATIONS, A 6" C-900 PVC EXTENSION MAY BE USED TO BRING VALVE BOX TO GRADE.



- NOTES:
- 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.
 - FITTINGS SHALL BE RESTRAINED WITH RETAINER GLANDS.
 - THE DEFLECTION TYPE CROSSING IS PREFERRED.
 - DO NOT EXCEED 50% OF MANUFACTURER'S RECOMMENDED MAXIMUM JOINT DEFLECTION.

MIN. LENGTH (IN FEET) OF PIPE TO BE RESTRAINED

(SOURCES: EBAA IRON RESTRAINT LENGTH CALCULATION PROGRAM FOR PVC PIPE, RELEASE 3.1, AND DIPRA THURST RESTRAINT FOR DUCTILE IRON PIPE, RELEASE 3.2)

FITTING TYPE	PIPE SIZE											
	4"	6"	8"	10"	12"	16"	20"	24"	30"	36"	42"	48"
90° HORIZ. BEND	14	20	25	30	35	45	54	62				
45° HORIZ. BEND	6	8	11	13	15	19	22	26				
22.5° HORIZ. BEND	3	4	5	6	7	9	11	12				
11.25° HORIZ. BEND	1	2	3	3	4	4	5	6				
90° VERT. OFFSET	UPPER BEND	29	41	53	64	74	95	115	134			
	LOWER BEND	7	10	13	16	19	25	30	35			
45° VERT. OFFSET	UPPER BEND	12	19	24	29	34	39	48	56			
	LOWER BEND	3	4	6	7	8	10	12	15			
22.5° VERT. OFFSET	UPPER BEND	6	9	12	14	17	19	23	27			
	LOWER BEND	1	2	4	4	4	5	6	7			
11.25° VERT. OFFSET	UPPER BEND	3	4	6	7	8	9	11	13			
	LOWER BEND	1	1	1	2	2	2	3	3			
PLUG (DEAD END)	UPPER BEND	32	45	59	70	83	107	129	151			
	LOWER BEND	32	45	45	45	45	55	65	80			
IN-LINE VALVE	UPPER BEND	4	6	8	10	12	16	20	24			
	LOWER BEND	1	1	1	1	1	1	1	1			
TEE (BRANCH RESTRAINT)	UPPER BEND	7	26	41	55	67	90					
	LOWER BEND	1	21	38	52	65	88	109				
REDUCER (LARGER PIPE RESTRAINT)	UPPER BEND	1	16	34	49	62	86	108	129			
	LOWER BEND	1	1	15	33	49	77	100	122			
CONFLICT PIPE	UPPER BEND	1	1	7	27	44	73	97	120			
	LOWER BEND	1	1	1	1	1	1	1	1			
REDUCER (SMALLER PIPE RESTRAINT)	UPPER BEND	1	1	1	1	1	1	1	1			
	LOWER BEND	1	1	1	1	1	1	1	1			

- NOTES:
- THE DATA IN THE ABOVE TABLE ARE BASED UPON THE FOLLOWING INSTALLATION CONDITIONS:
SOIL TYPE-SAND TEST PRESSURE-150 PSI DEPTH OF BURY-3'
TRENCH TYPE-3 SAFETY FACTOR-1.5 VERTICAL OFFSET-3'
MINIMUM PIPE LENGTH ALONG TEE RUN-5'
 - THE RESTRAINED PIPE LENGTHS APPLY TO DUCTILE IRON AND PVC PIPE.
 - ALL JOINTS BETWEEN UPPER AND LOWER BENDS SHALL BE RESTRAINED.
 - RESTRAINED PIPE LENGTHS APPLY TO PIPE ON BOTH SIDES OF VALVES AND FITTINGS.
 - DESIGN ENGINEER SHALL BE RESPONSIBLE FOR PROPERLY SIZING THE LENGTH OF PIPE TO BE RESTRAINED.

MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS

REVISION	REDUCED PRESSURE BACKFLOW PREVENTER SINGLE SERVICE 3/4", 1", 1-1/2" AND 2"	DWG No.
AUGUST 2016		13

MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS

REVISION	VALVE SETTING DETAIL	DWG No.
AUGUST 2016		18

MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS

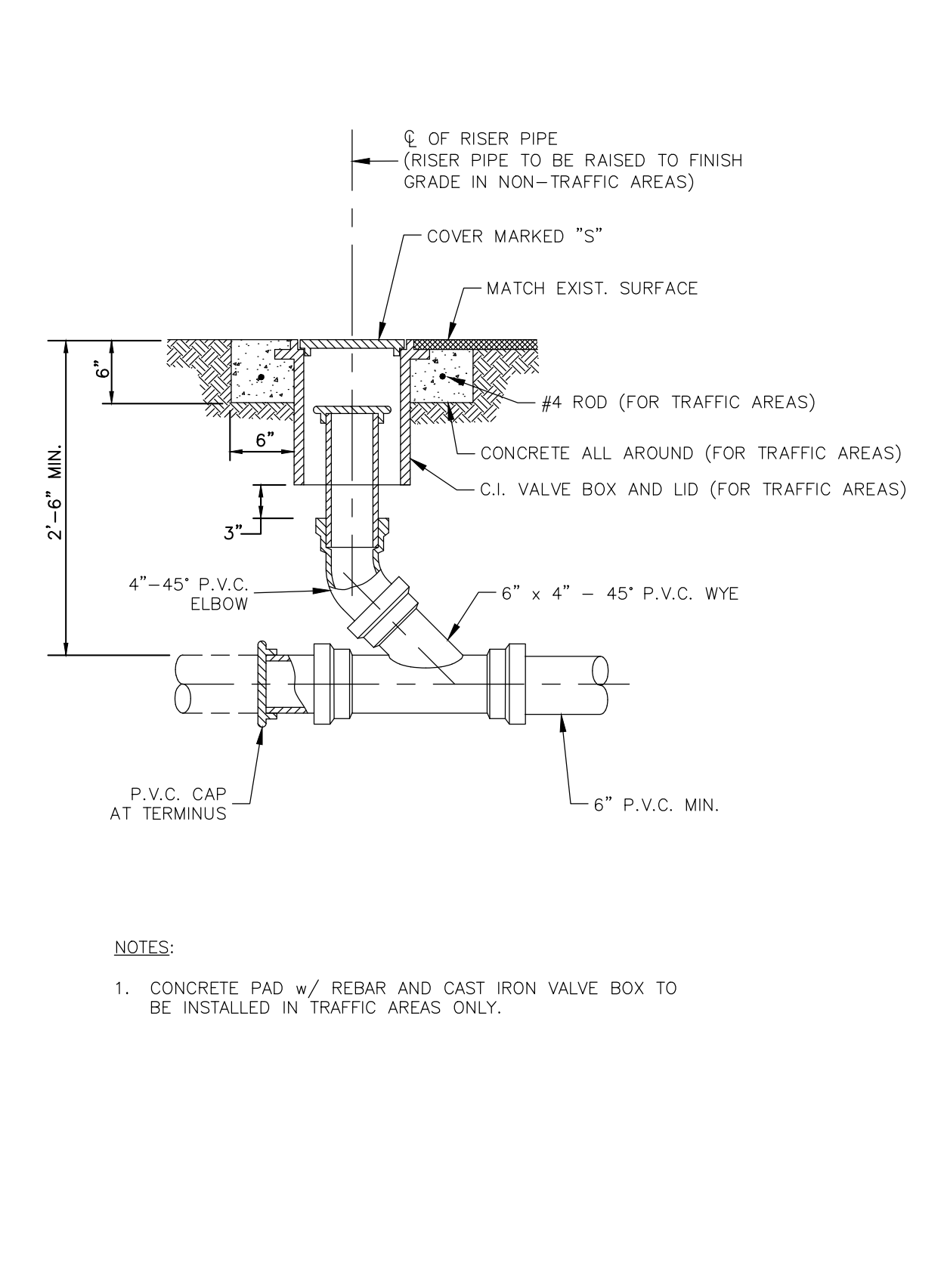
REVISION	PRESSURE PIPE CONFLICT DETAIL	DWG No.
AUGUST 2016		20

MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS

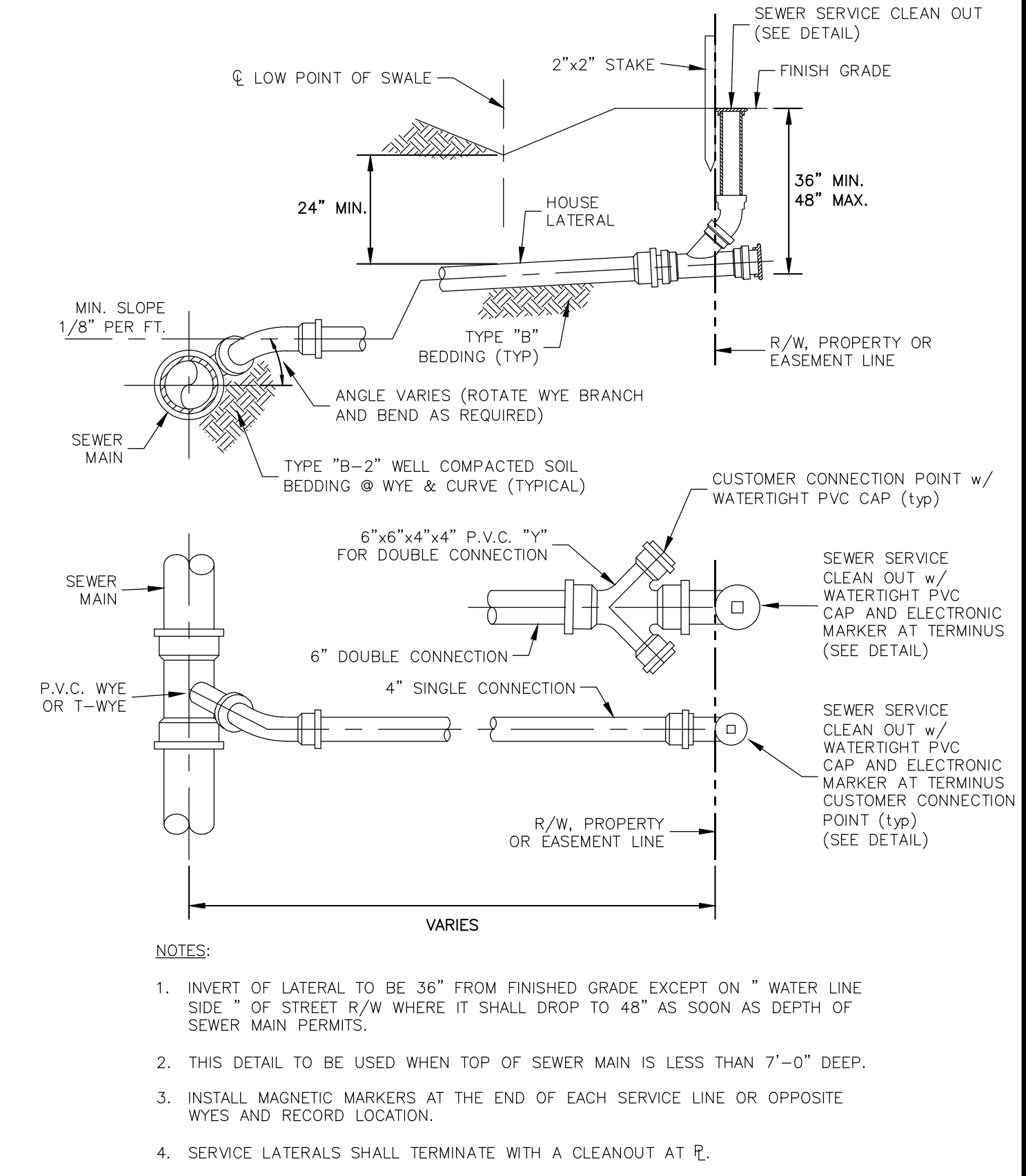
REVISION	MECHANICAL JOINT ANCHORING REQUIREMENTS	DWG No.
AUGUST 2016		21



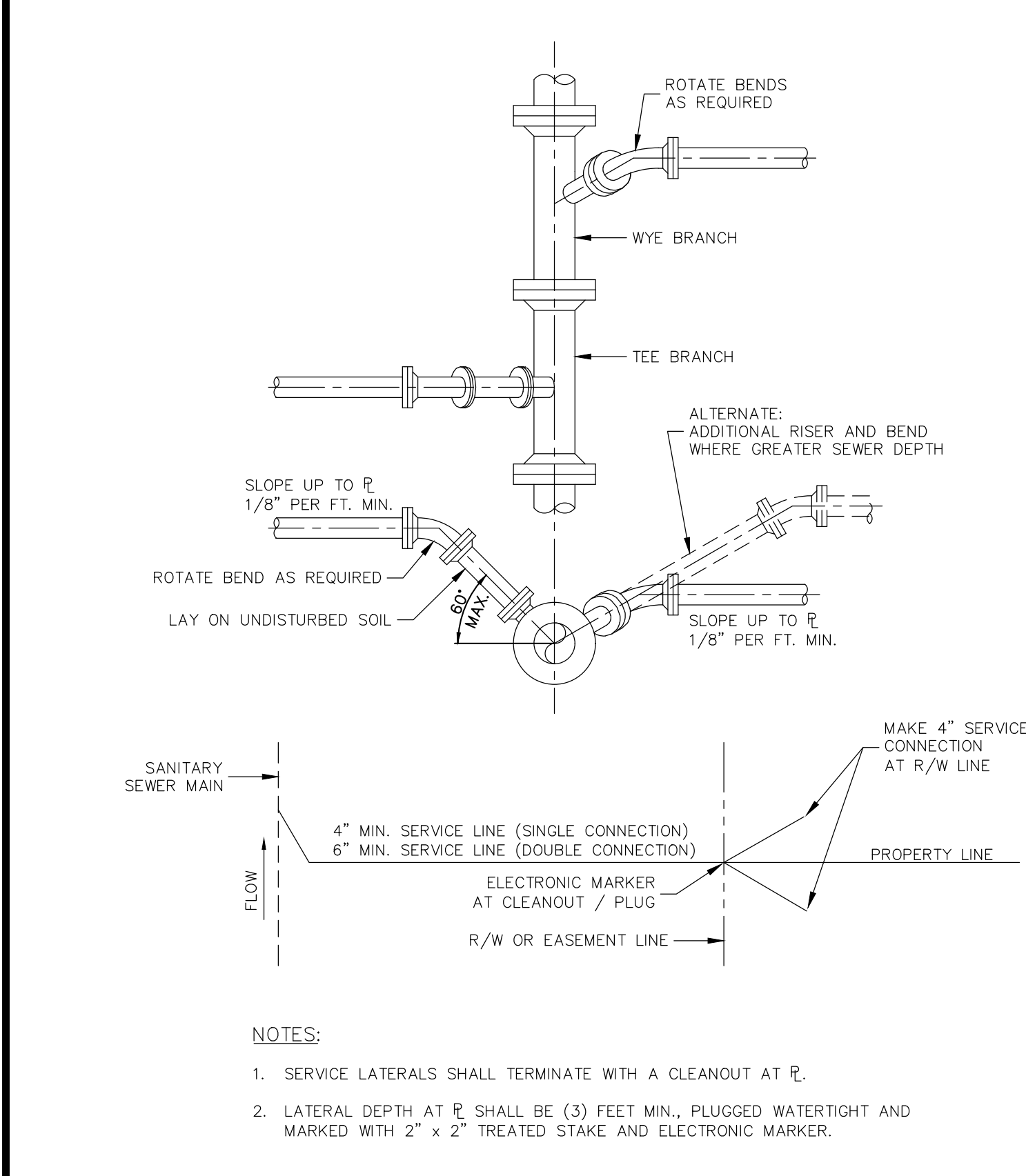
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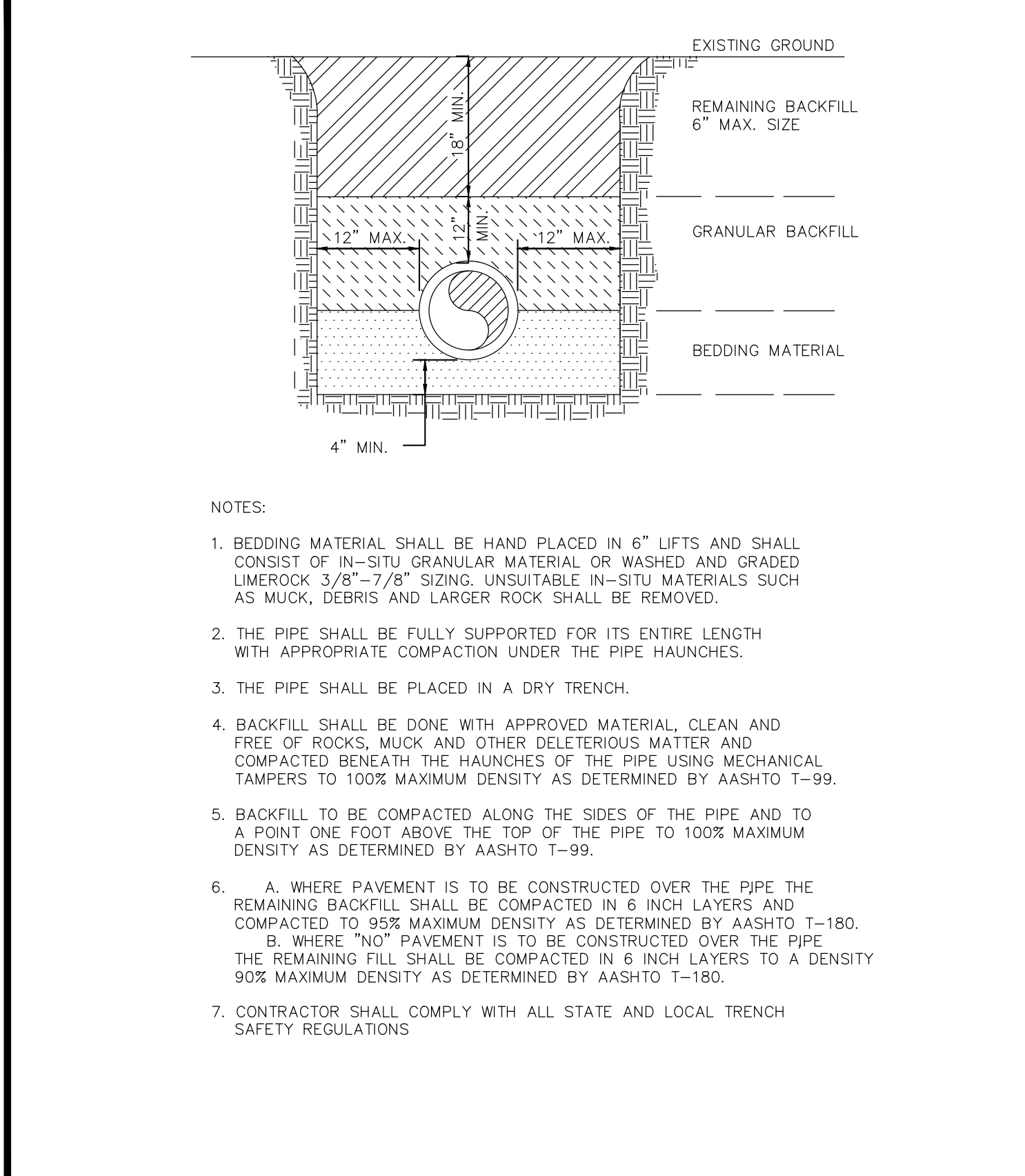
MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS
 DWG No. 33
 SEWER SERVICE CLEANOUT



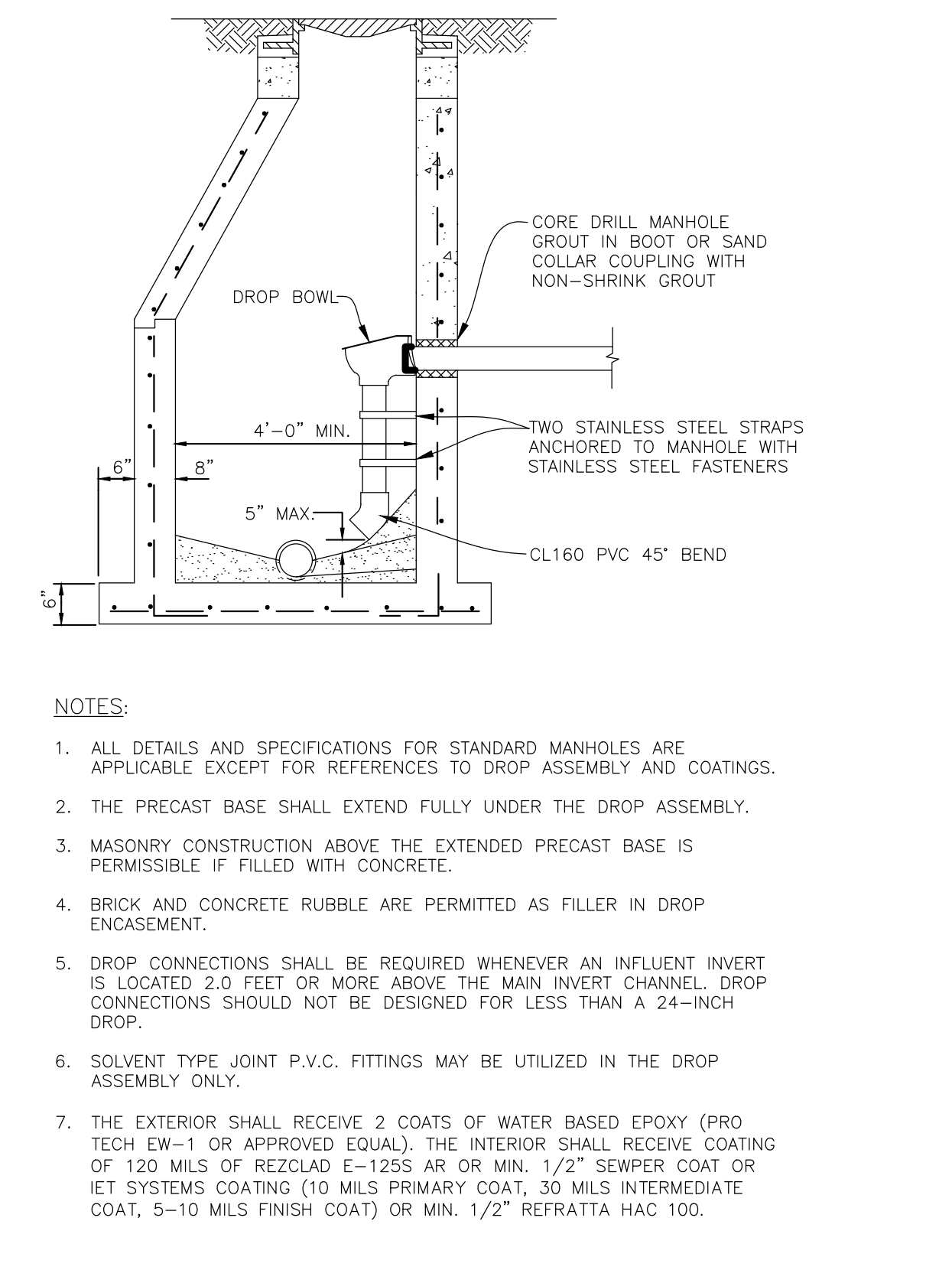
MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS
 DWG No. 32
 SANITARY SEWER LATERAL DETAIL



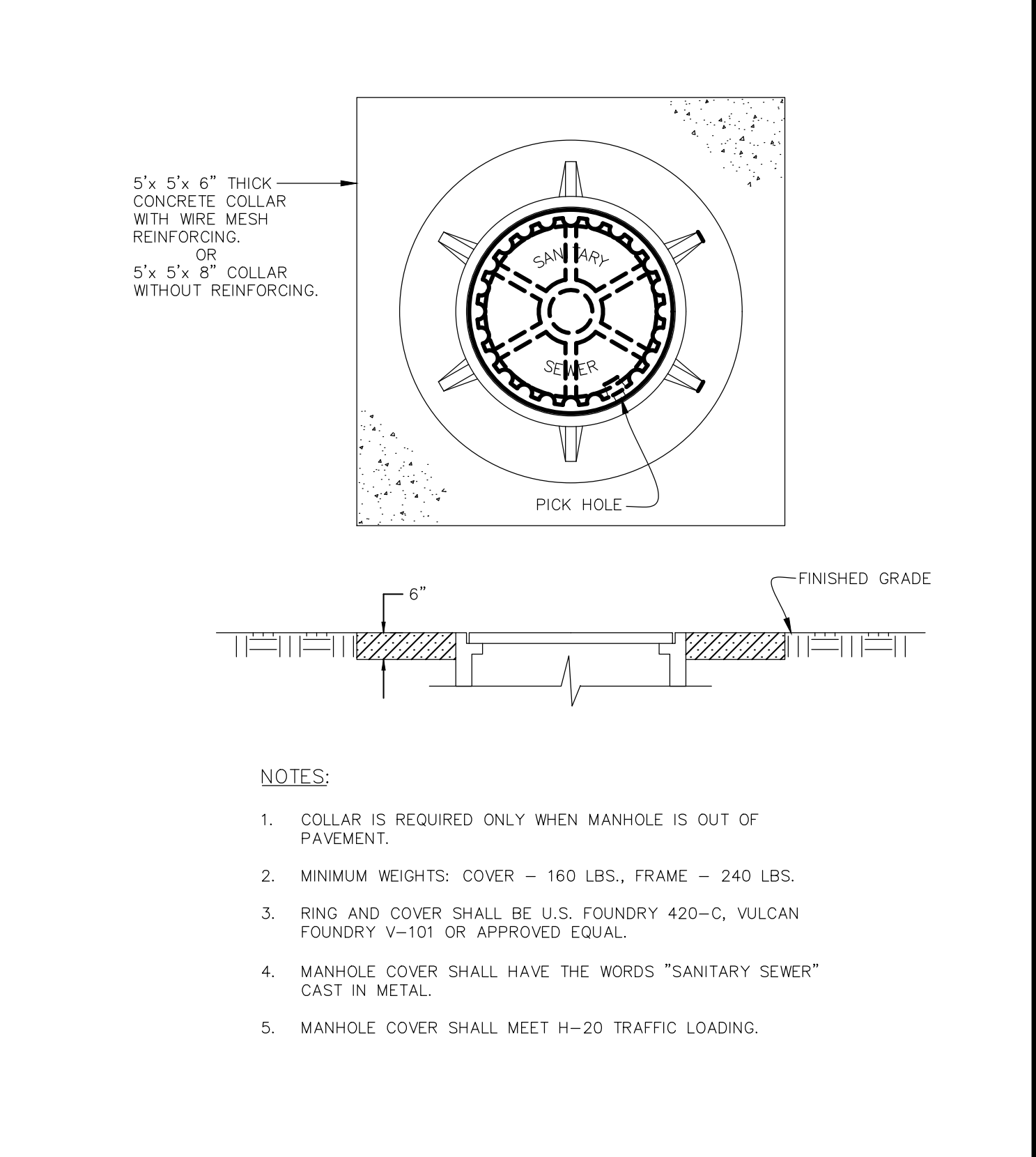
MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS
 DWG No. 31
 TYPICAL SEWER SERVICE CONNECTION



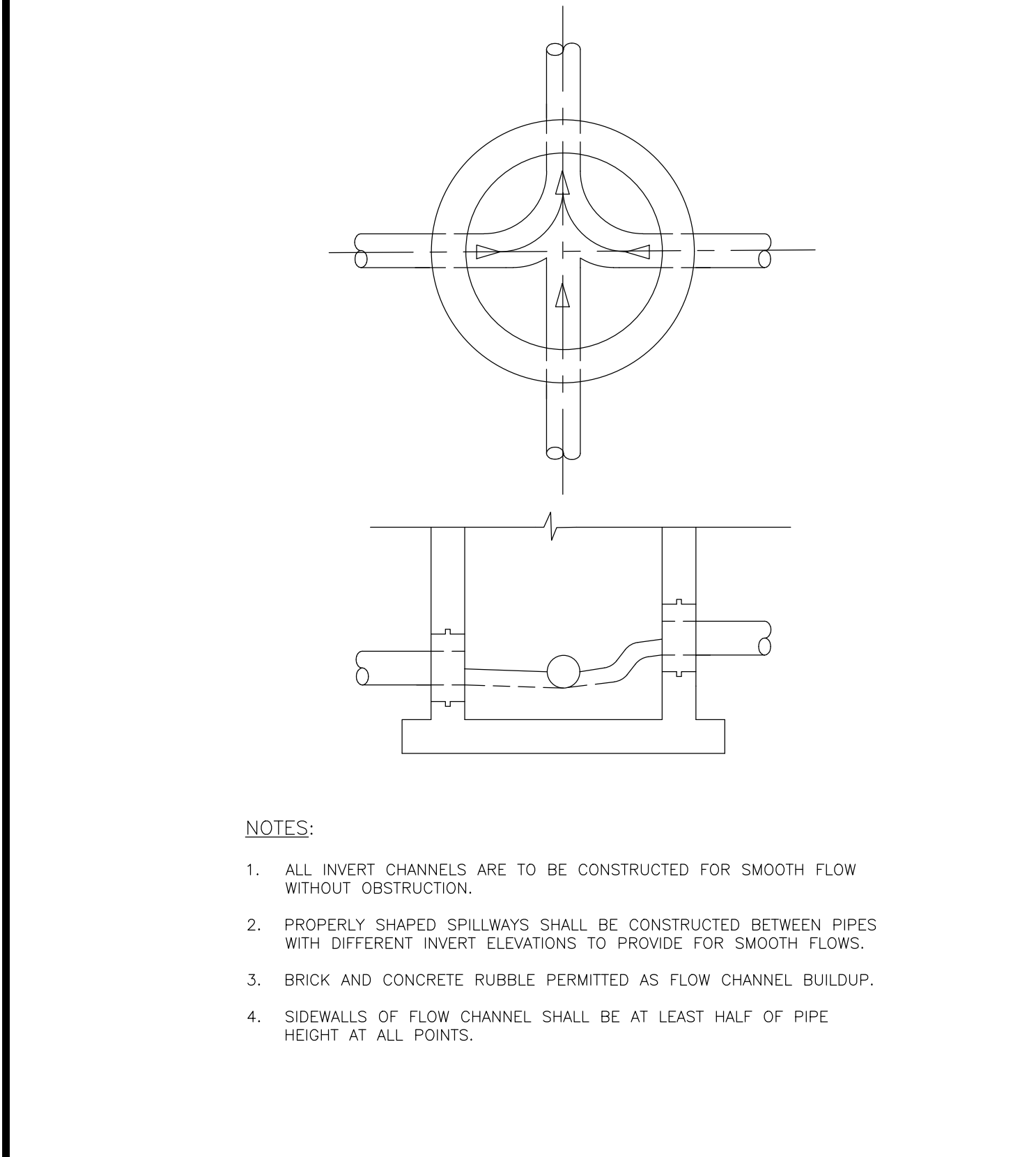
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 DWG No. 23
 TYPICAL TRENCH DETAIL



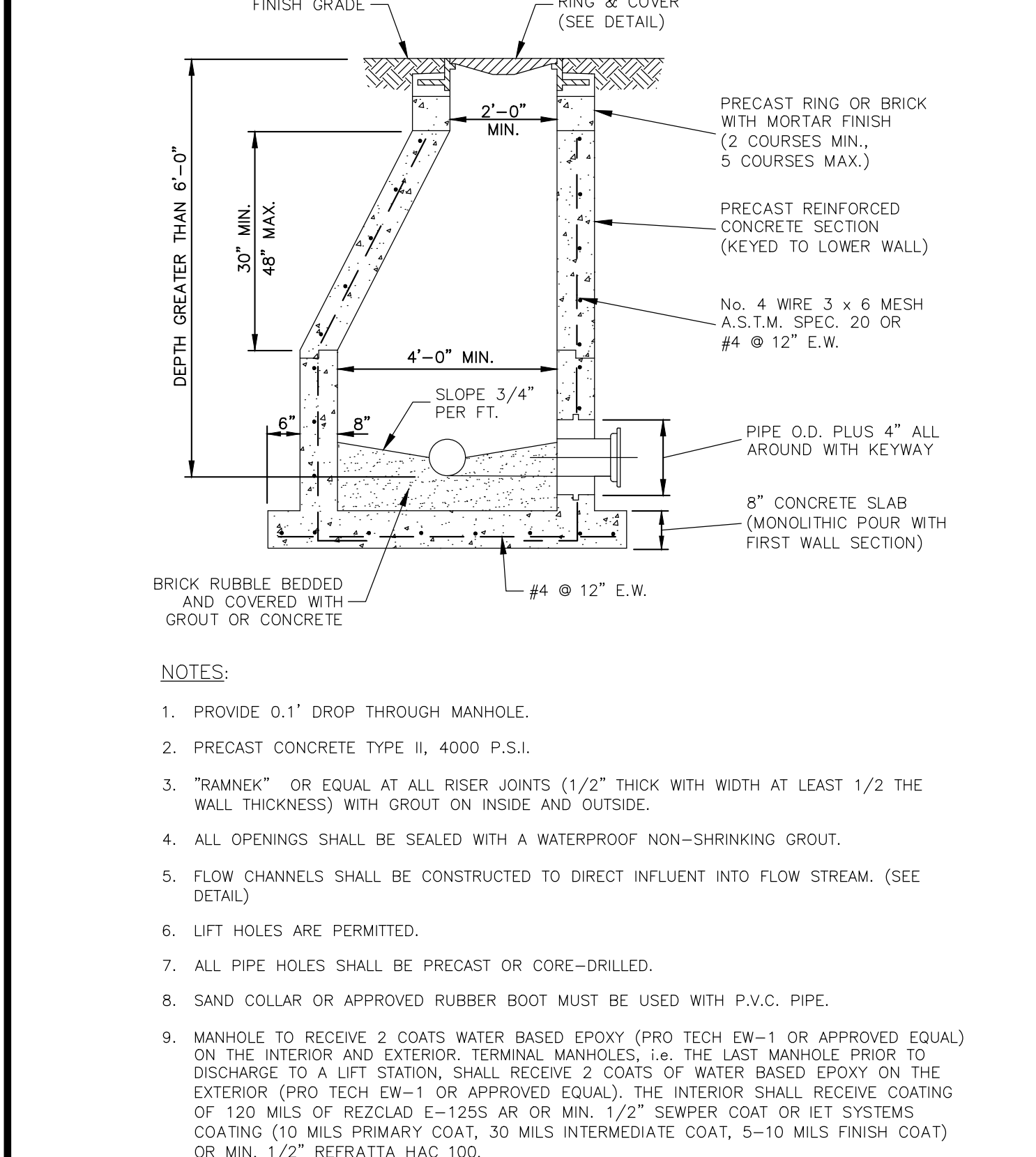
MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS
 DWG No. 39
 DROP MANHOLE AND SERVICE DROP



MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS
 DWG No. 38
 SANITARY SEWER MANHOLE RING AND COVER



MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS
 DWG No. 37
 INVERT FLOW CHANNEL DETAIL



MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS
 DWG No. 34
 STANDARD MANHOLE

NOTE:
 REFER TO THE LATEST EDITIONS OF MARTIN COUNTY & MARTIN COUNTY UTILITIES DETAILS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION DEIGN STANDARD SPECIFICATIONS.



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