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Please Email ALL Questions:
[MailTo:ContractAdministration@TampaGov.net](mailto:ContractAdministration@TampaGov.net)

City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456

CITY OF TAMPA CONSTRUCTION NOTES

GENERAL

1. WATER MAIN TAPS SHALL BE MADE WITH CUTTERS DESIGNED FOR THE PIPE TYPE BEING TAPPED. SIZE-ON-SIZE TAPS SHALL BE MADE WITH MJ TAPPING SLEEVE, OFF-SIZE TAPS CAN BE WITH STEEL TAPPING SLEEVES. TAPPING SLEEVE INSTALLATION AND TAP MUST BE COORDINATED WITH (AND WITNESSED BY THE CITY) INSPECTOR.
2. NORMAL WORKING HOURS SHALL BE WEEKDAYS FROM 7:30 AM TO 4:00 PM UNLESS OTHERWISE APPROVED BY THE ENGINEER/INSPECTOR.
3. ELEVATION INFORMATION SHOWN ON THESE PLANS IS REFERENCED TO N.A.V.D. 1988 UNLESS OTHERWISE STATED.
4. CONSTRUCTION SHALL BE COORDINATED WITH THE WATER DEPARTMENT PRIOR TO THE START OF THE CONSTRUCTION. CONTACT CITY OF TAMPA CONTRACT ADMINISTRATION DEPARTMENT @ 813-635-3432 TO SCHEDULE A PRE-CONSTRUCTION MEETING A MINIMUM OF 10 WORKING DAYS PRIOR TO THE PLANNED CONSTRUCTION.
6. EXISTING UTILITIES, BUILDINGS, GROUND ELEVATIONS, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. ALL CONDITIONS, DIMENSIONS, AND QUANTITIES AFFECTING REQUIRED WORK SHALL BE VERIFIED BY CONTRACTOR BEFORE BEGINNING WORK OR ORDERING MATERIALS.
7. VALVES ON EXISTING PUBLIC WATER MAINS SHALL BE OPERATED BY CITY PERSONNEL ONLY.
8. ALL PROPOSED WATER LINES SHALL BE MANUFACTURED, INSTALLED, AND TESTED PER THE STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION (AWWA) AND BY F.A.C.-62-555.
9. SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED BY THE CITY FOR ALL PROPOSED ITEMS. ALL SUBMITTALS AND SHOP DRAWINGS SHALL BE HIGH QUALITY PDF DOCUMENTS.
10. THE CONTRACTOR IS RESPONSIBLE FOR RESTRAINING ALL EXISTING PIPE NECESSARY TO MAINTAIN A SAFE CONSTRUCTION AREA AND PERFORM THE WORK SHOWN IN THE PLANS. EXISTING PIPE REQUIRING RESTRAINTS SHALL UTILIZE EXTERIOR BELL RESTRAINTS.
11. THE CONTRACTOR SHALL DEWATER ANY EXCAVATION OR TRENCH TO MAINTAIN A SAFE WORK ENVIRONMENT AND TO ABIDE BY AWWA INSTALLATION STANDARDS. DEWATERING IS AT THE EXPENSE OF THE CONTRACTOR.
12. THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL TREES (PUBLIC AND PRIVATE) WITHIN THE VICINITY OF PROPOSED CONSTRUCTION IN ACCORDANCE WITH CHAPTER 13 OF THE CITY OF TAMPA CODE, AND STANDARDS THEREIN. EXCAVATION WITHIN THE PRODUCTIVE RADIUS OF TREES REQUIRES ROOT PRUNING WITH THE APPROPRIATE EQUIPMENT TO ASSURE ROOTS ARE SEVERED CLEAN AT THE APPROVED RADIUS - EXCAVATIONS SHALL NOT BE PERFORMED IN TREE ROOT ZONES WITHOUT CUTTING ROOTS CLEANLY – CUTTING TREE ROOTS VIA BACK HOE IS UNACCEPTABLE. BRANCH PRUNING IS NOT AUTHORIZED WITHOUT APPROVAL FROM THE CITY OF TAMPA PLANNING AND DEVELOPMENT DEPARTMENT, NATURAL RESOURCE SECTION, AND IF AUTHORIZED SHALL BE COMPLETED BY A CERTIFIED ARBORIST.

PERMITS

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHT-OF-WAY PERMITS AND ROADWAY CLOSURES ASSOCIATED WITH THE WORK SHOWN IN THE PLANS.
2. IN ORDER TO OBTAIN ROADWAY CLOSURES OR RIGHT-OF-WAY PERMITS, AT MINIMUM, THE CONTRACTOR MUST SUBMIT DETAILED MAINTENANCE OF TRAFFIC (MOT) PLANS ALONG WITH APPLICATIONS TO THE APPROPRIATE AGENCY. THE MOT(S) SHALL CONFORM TO APPLICABLE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DRAWINGS (MOST CURRENT EDITION). THE GOVERNING AGENCIES MAY REQUIRE ADDITIONAL INFORMATION AND DICTATE SPECIFIC WORK TIME DURING NON-PEAK TRAFFIC HOURS.

PIPE CLEARANCES

1. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES AND SHALL MAINTAIN A MINIMUM OF THREE (3) FEET HORIZONTAL SEPARATION FROM OTHER UTILITIES, EXCEPT STORM, SANITARY, AND GAS, WHICH SHALL MAINTAIN TEN (10) FEET HORIZONTAL SEPARATION, UNLESS OTHERWISE NOTED.
2. WATER MAIN SHALL CROSS ABOVE OTHER PIPES. WHEN WATER MUST BE BELOW, PROVIDE 12" MINIMUM VERTICAL SEPARATION UNLESS OTHERWISE NOTED.
3. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL SANITARY, STORM, OR RECLAIMED PIPE CROSSINGS.

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MATERIAL

1. ALL VALVES SHALL BE RIGHT HAND OPEN.
2. POLYWRAP ALL DUCTILE IRON PIPE (D.I.P) FITTINGS AND APPURTENANCES.
3. ALL HARDWARE SHALL BE 304 STAINLESS STEEL, UNLESS OTHERWISE NOTED.
4. ALL BELOW GROUND BENDS SHALL BE MECHANICAL JOINT (MJ).
5. RESTRAIN ALL JOINTS AND FITTINGS PER CONSTRUCTION PLANS AND DETAILS.
6. CONCRETE THRUST BLOCKS SHALL NOT BE USED TO PROVIDE THRUST RESTRAINT. RESTRAINT OF PUSH-ON DIP (OTHER THAN FOR FITTINGS & VALVES) SHALL BE WITH APPROVED PUSH-ON "GRIPPER-TYPE" RESTRAINTS. FITTINGS AND VALVES SHALL BE CONNECTED TO PIPE WITH MEGALUGS, OR APPROVED EQUAL.
7. ALL POTABLE WATER SERVICE LATERAL, AIR RELEASE VALVES, AND TEMPORARY SAMPLE POINTS SHALL BE CONSTRUCTED OF BLUE SDR-9 HIGH DENSITY POLYETHYLENE (HDPE) TUBING. ALL HDPE TUBING SHALL BE INSTALLED WITHIN A CASING AS DEFINED IN THE SPECIFICATIONS AND DETAILS.

TESTING

1. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL BE PROPERLY PRESSURE TESTED, WITNESSED AND ACCEPTED BY THE CITY. PRESSURE TESTS TO BE PERFORMED IN ACCORDANCE WITH WATER DEPARTMENT SPECIFICATIONS. CONTRACTOR TO NOTIFY THE ASSIGNED CITY INSPECTOR A MINIMUM OF THREE (3) WORKING DAYS IN ADVANCE OF PERFORMING TESTS. CONTRACTOR SHALL PRESSURE TEST WATER MAINS AT A MINIMUM OF 150 PSI FOR A PERIOD OF 2 HOURS IN ACCORDANCE WITH AWWA C600-87 STANDARDS. THE CONTRACTOR SHALL MAKE ALL NECESSARY APPLICATIONS AND ARRANGEMENTS.
2. ALL SAMPLE, PRESSURE TEST, AND CHLORINATION POINT PIPING SHALL BE COMPLETELY REMOVED PRIOR TO FINAL ACCEPTANCE. THE CORPORATION STOP SHALL BE CLOSED AND PLUGGED AT THE MAIN.
3. CONTRACTOR SHALL PERFORM CHLORINATION AND HIRE INDEPENDENT FIRMS TO CONDUCT BACTERIOLOGICAL TESTING AS DEFINED IN F.A.C. 62-555.340. CONTRACTOR TO SUPPLY THE CITY WITH AS-BUILTS AND SAMPLE RESULTS NECESSARY TO OBTAIN DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) CLEARANCES BEFORE PLACING METERS OR PIPELINES IN SERVICE.

RESTORATION

1. ROADWAY RESTORATION SHALL BE IN CONFORMANCE WITH CORRESPONDING JURISDICTION'S LATEST STANDARDS.
2. DISTURBANCE TO ANY PROPERTY, PUBLIC OR PRIVATE, SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.

PROJECT SPECIFIC NOTES:

1. ALL ASPHALT ROADWAY OPEN CUTS WITHIN CITY RIGHT-OF-WAY SHALL BE FULLY MILLED & OVERLAYED (FROM EDGE-OF-PAVEMENT TO EDGE-OF-PAVEMENT) PER TYPICAL PAVING SECTION DETAIL SHOWN ON PAGE 22.



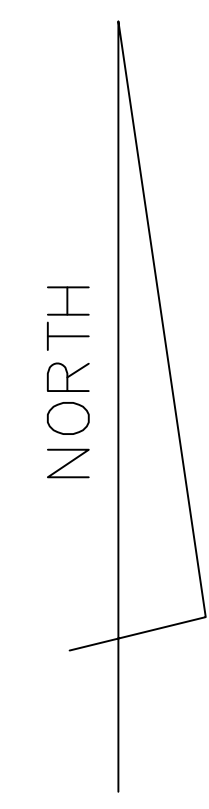
**Water
Department**

*FY17 CIP
UNLINED CAST IRON MAIN REPLACEMENT*

*CULBREATH BAYOU
DISTRIBUTION LINE REPLACEMENT*

GENERAL NOTES & INDEX

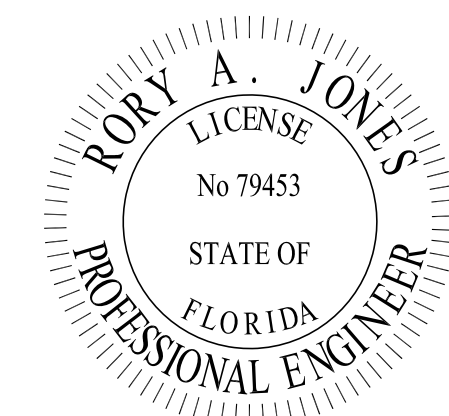
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18-2,3 J8-1	No. Date Approved	REVISION	By	Dwn: MGL	FILE NUMBER		Ckd: RAJ	SHEET 3 OF 22 SHEETS		



Sec. 20-T29S-R18E
Sec. 29-T29S-R18E

LEGEND

- EXISTING HYDRANT
- PROPOSED HYDRANT
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- PROPOSED CUT & PLUG
- SHEET NUMBER



RORY A. JONES, P.E.
CITY OF TAMPA WATER DEPT.
306 E. JACKSON ST., SE
TAMPA, FLA. 33602
P.E. #79453

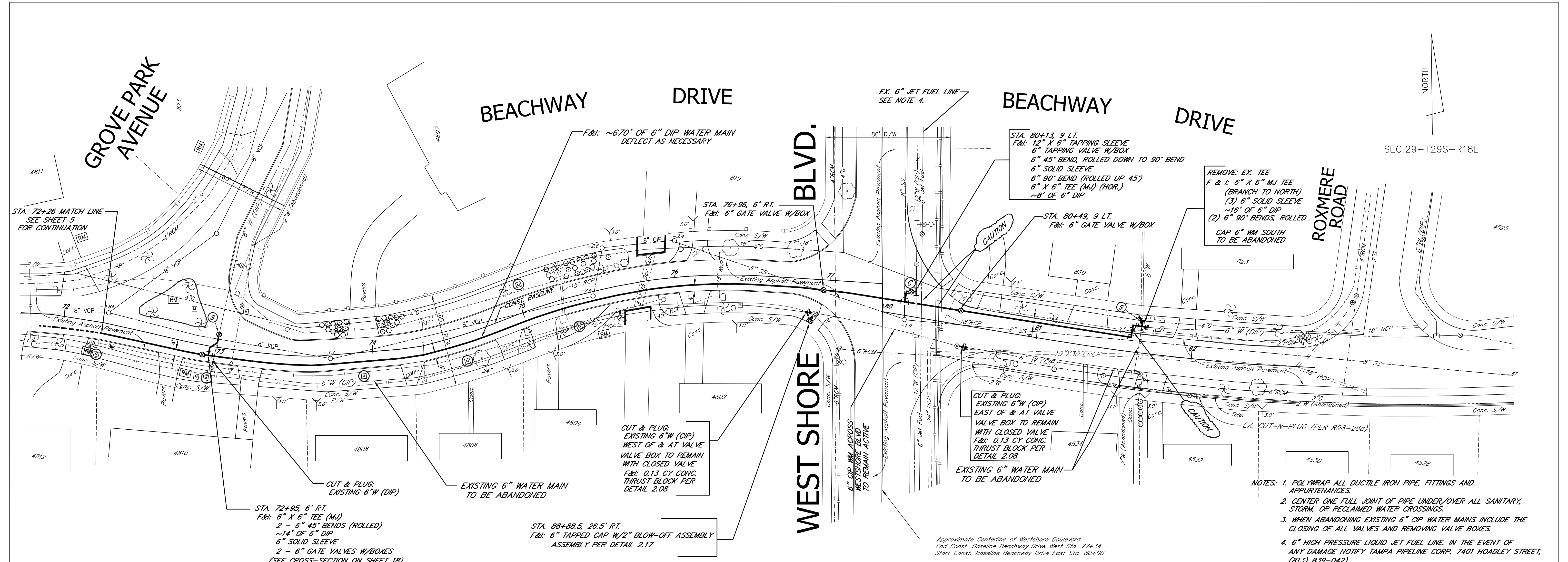
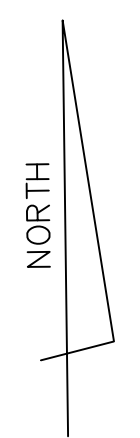


FY17 CIP
UNLINED CAST IRON MAIN REPLACEMENT

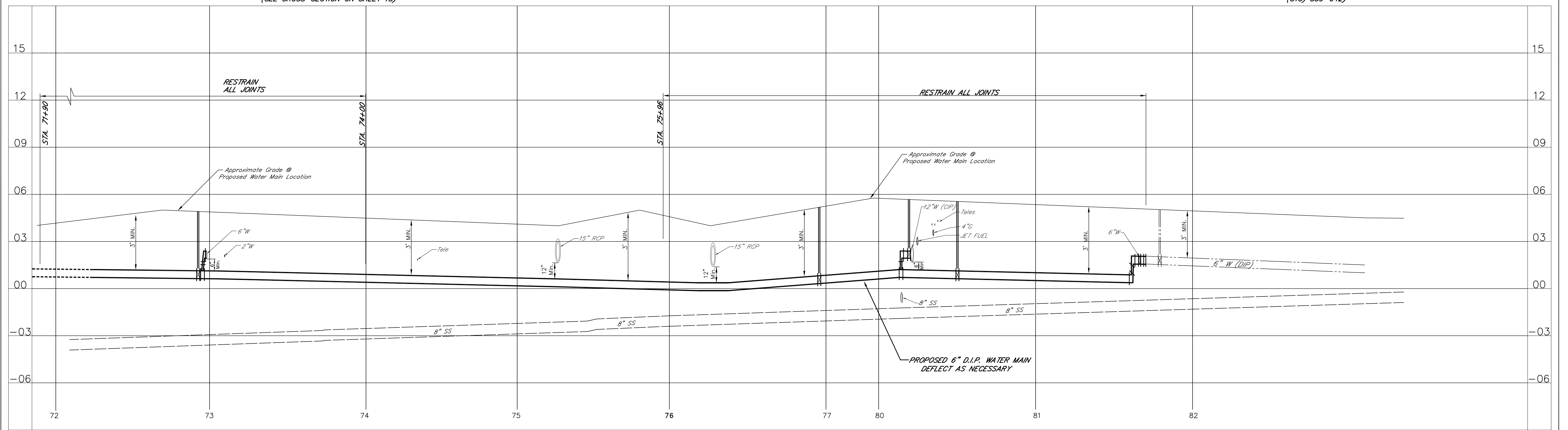
KEY SHEET

NOT TO SCALE

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		Date		
			SHEET 2	OF 22 SHEETS

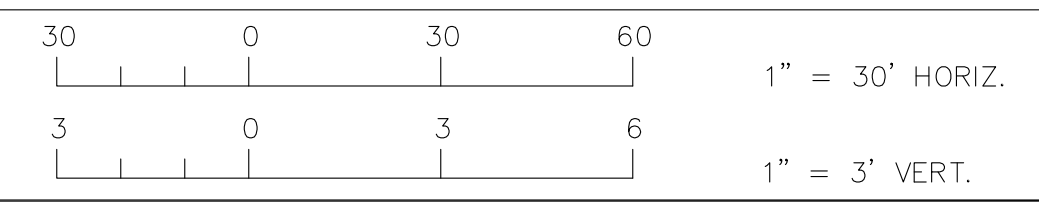


- NOTES:
1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
 2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL SANITARY, STORM, OR RECLAIMED WATER CROSSINGS.
 3. WHEN ABANDONING EXISTING 6" CIP WATER MAINS INCLUDE THE CLOSING OF ALL VALVES AND REMOVING VALVE BOXES.
 4. 6" HIGH PRESSURE LIQUID JET FUEL LINE. IN THE EVENT OF ANY DAMAGE NOTIFY TAMPA PIPELINE CORP. 7401 HOADLEY STREET, (813) 839-042

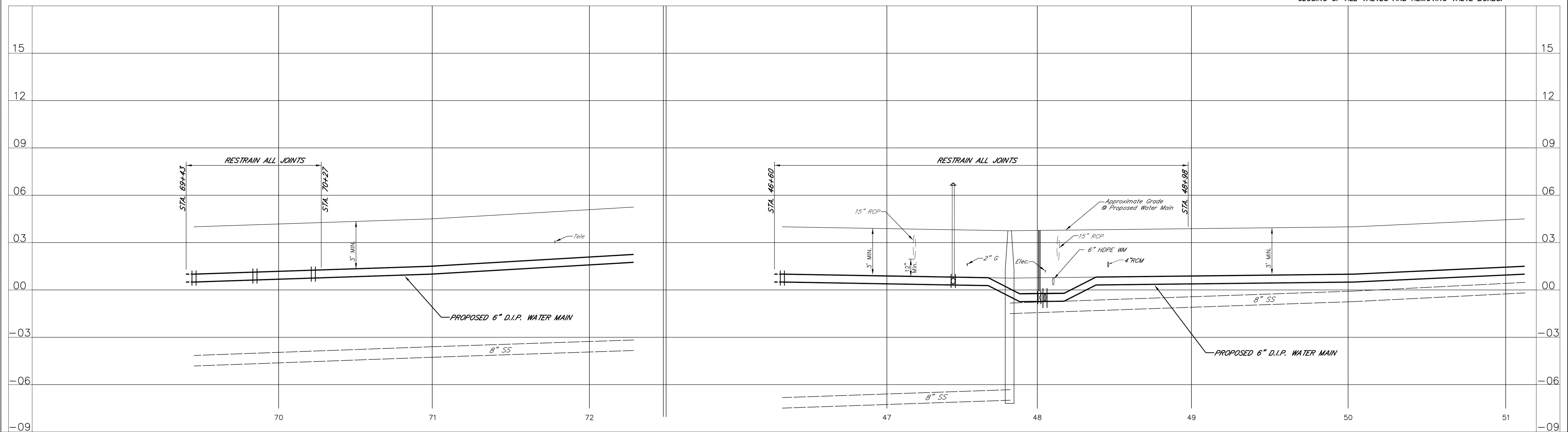
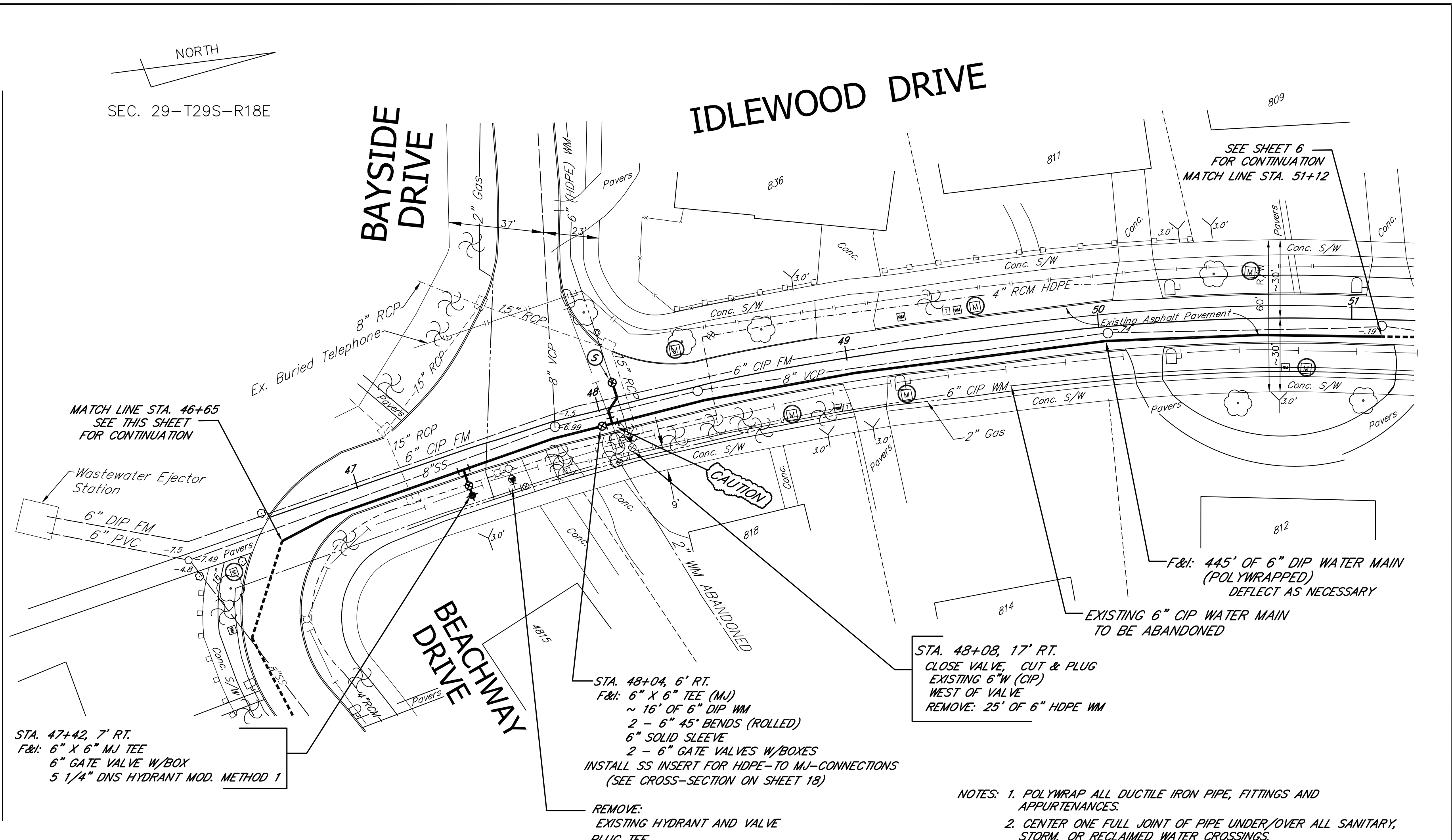
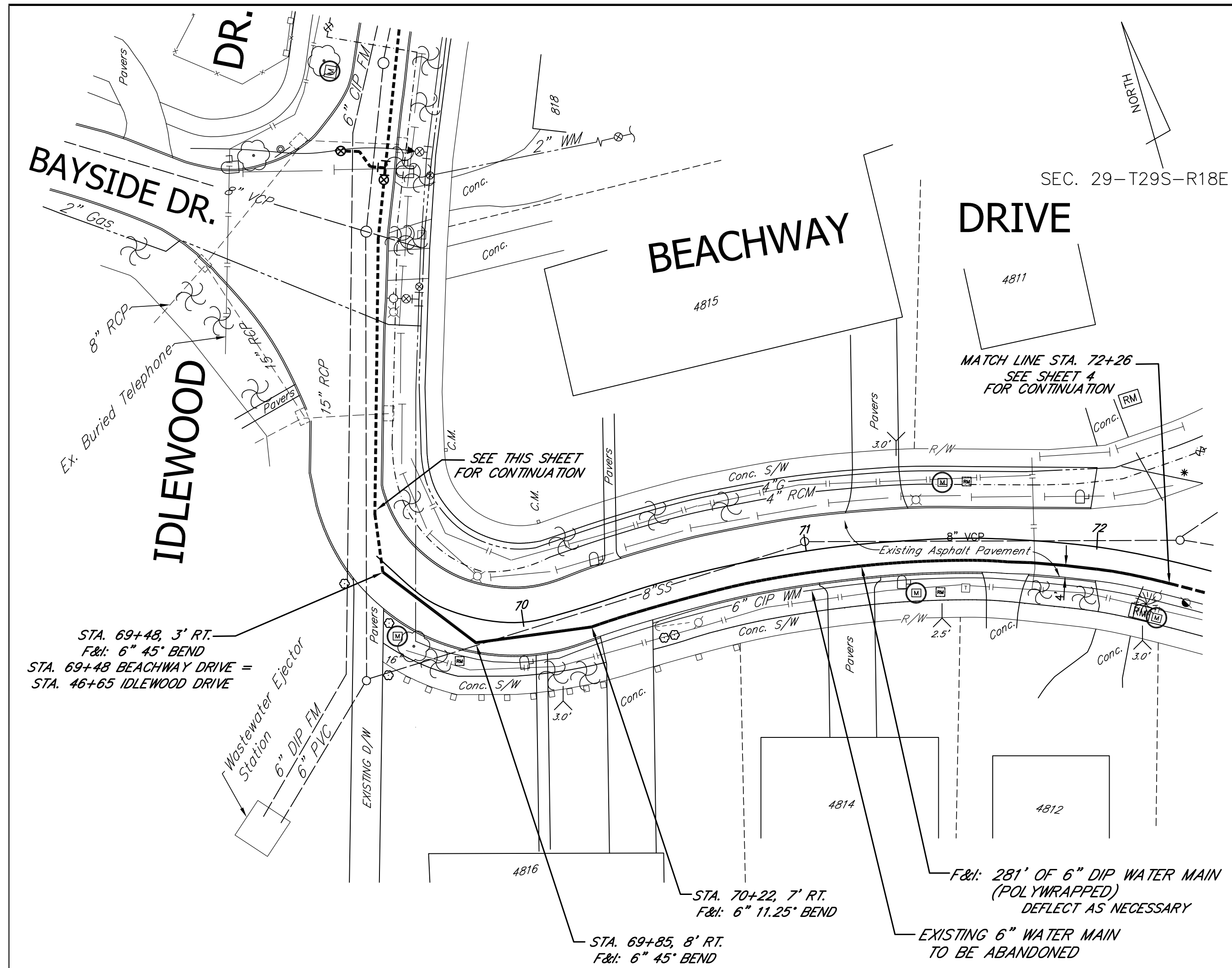


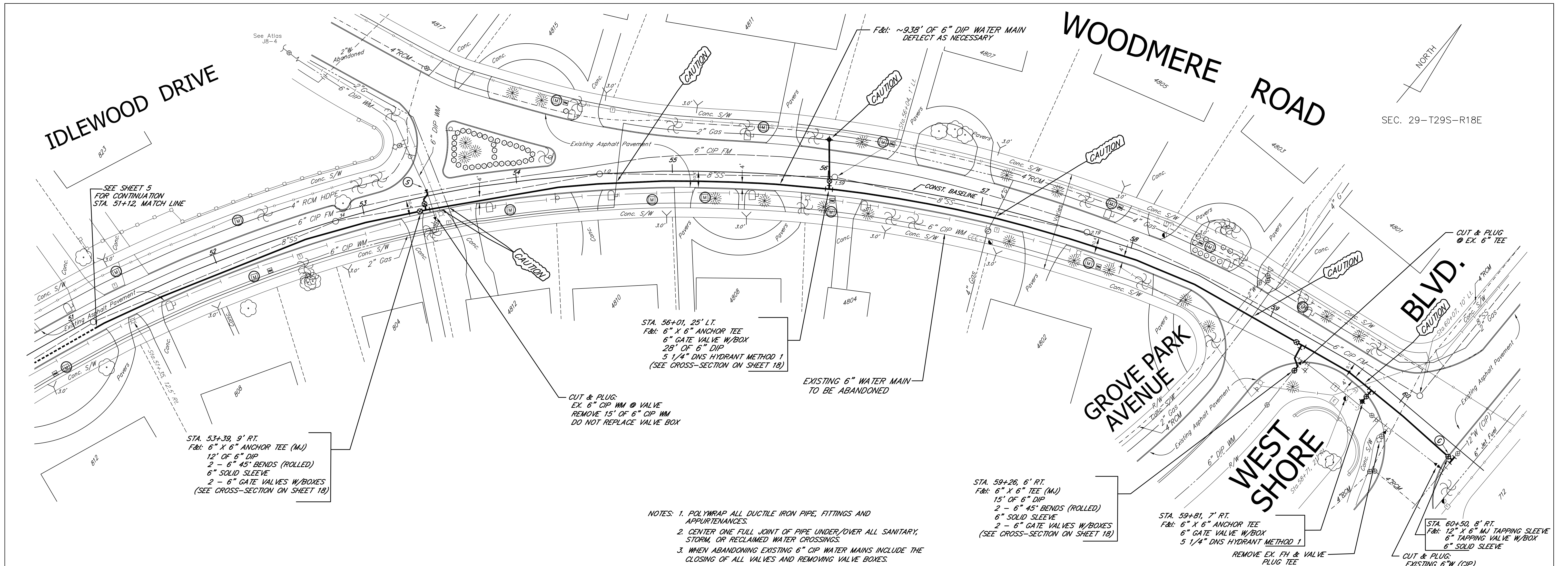
FY17 CIP
CAST IRON MAIN REPLACEMENT

BEACHWAY DRIVE - from Grove Park Ave.
to Roxmere Road

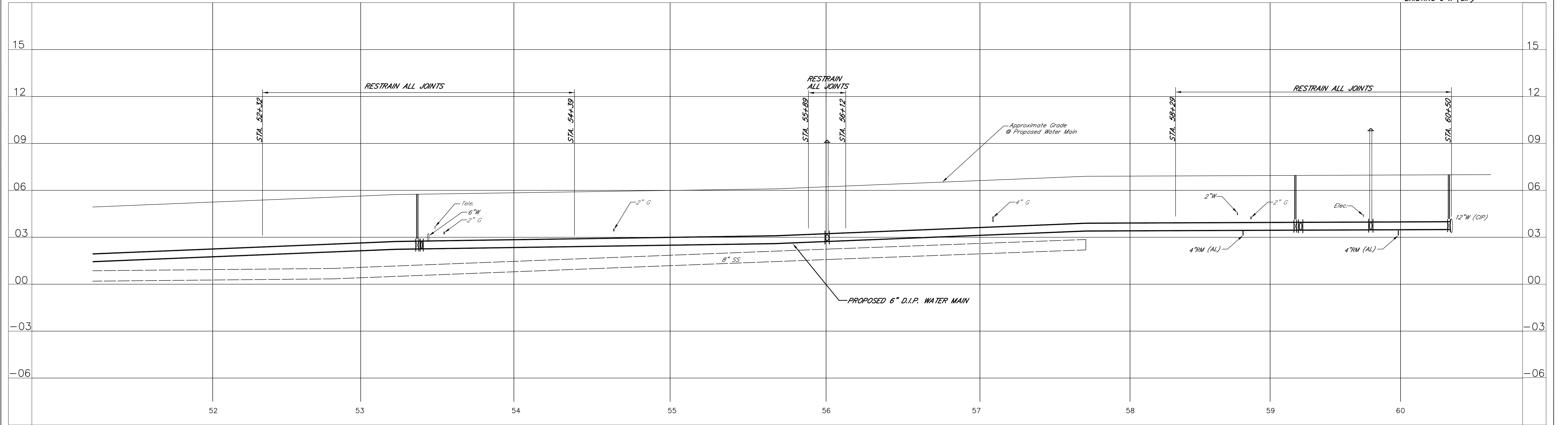


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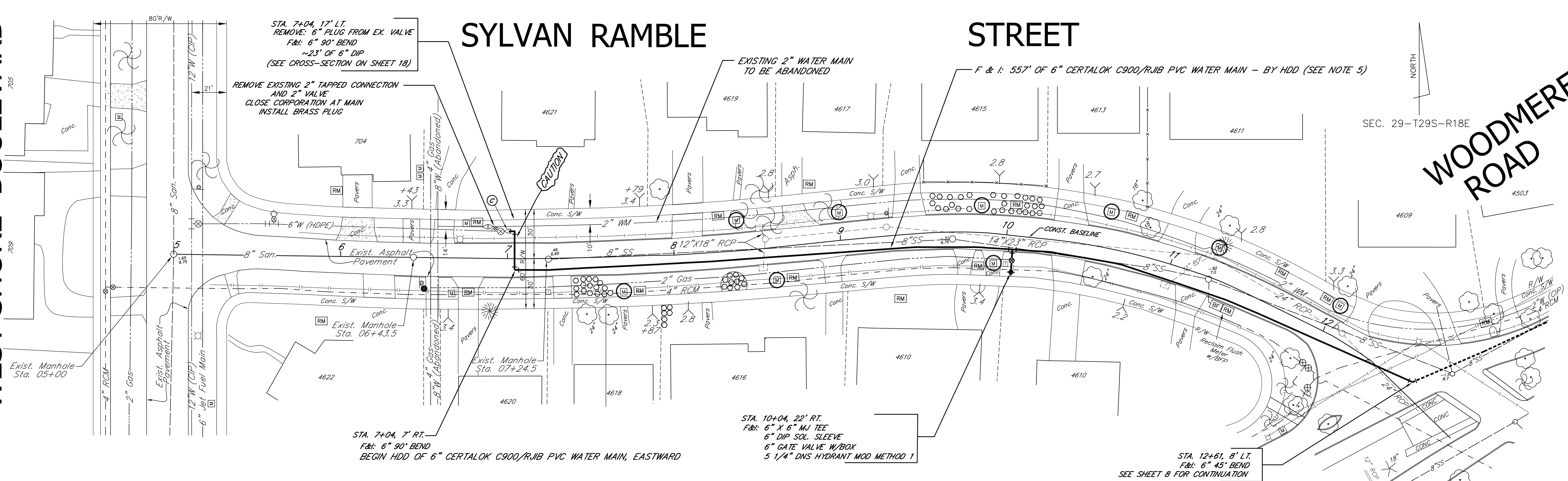


WEST SHORE BOULEVARD

SYLVAN RAMBLE STREET

STREET

WOODMERE ROAD



STA. 7+04, 17' LT.
REMOVE: 6" PLUG FROM EX. VALVE
F&I: 6" 90° BEND
~23' OF 6" DIP
(SEE CROSS-SECTION ON SHEET 18)

REMOVE EXISTING 2" TAPPED CONNECTION
AND 2" VALVE
CLOSE CORPORATION AT MAIN
INSTALL BRASS PLUG

EXISTING 2" WATER MAIN
TO BE ABANDONED

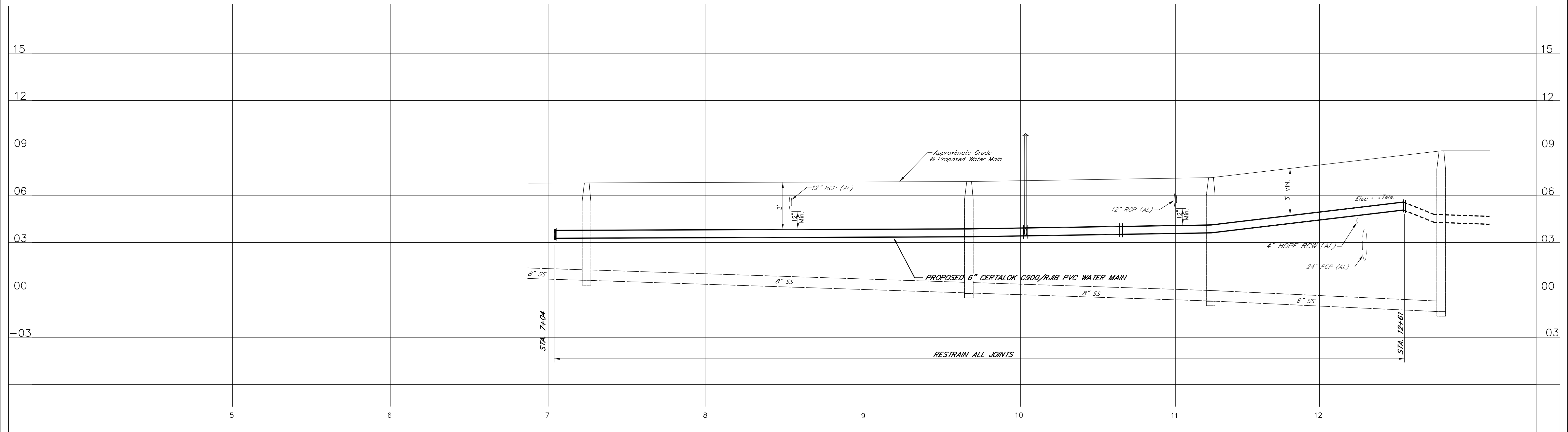
F & I: 557' OF 6" CERTALOK C900/RJB PVC WATER MAIN - BY HDD (SEE NOTE 5)

STA. 7+04, 7' RT.
F&I: 6" 90° BEND
BEGIN HDD OF 6" CERTALOK C900/RJB PVC WATER MAIN, EASTWARD

STA. 10+04, 22' RT.
F&I: 6" X 6" MJ TEE
6" DIP SOL. SLEEVE
6" GATE VALVE W/BOX
5 1/4" DNS HYDRANT MOD METHOD 1

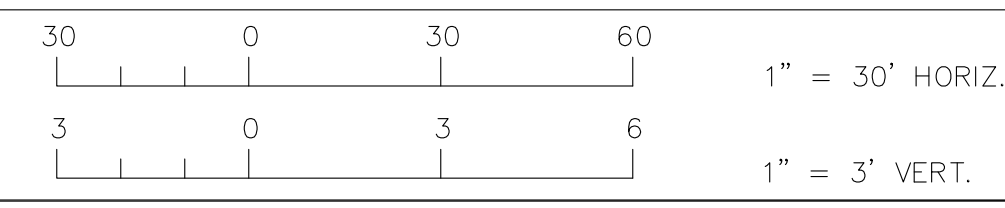
STA. 12+61, 8' LT.
F&I: 6" 45° BEND
SEE SHEET 8 FOR CONTINUATION

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 4. RJB = INTEGRAL BELL RESTRAINED JOINT
 5. HDD PULL LENGTHS MUST BE MAXIMIZED, TO MINIMIZE CREATING HIGH AND



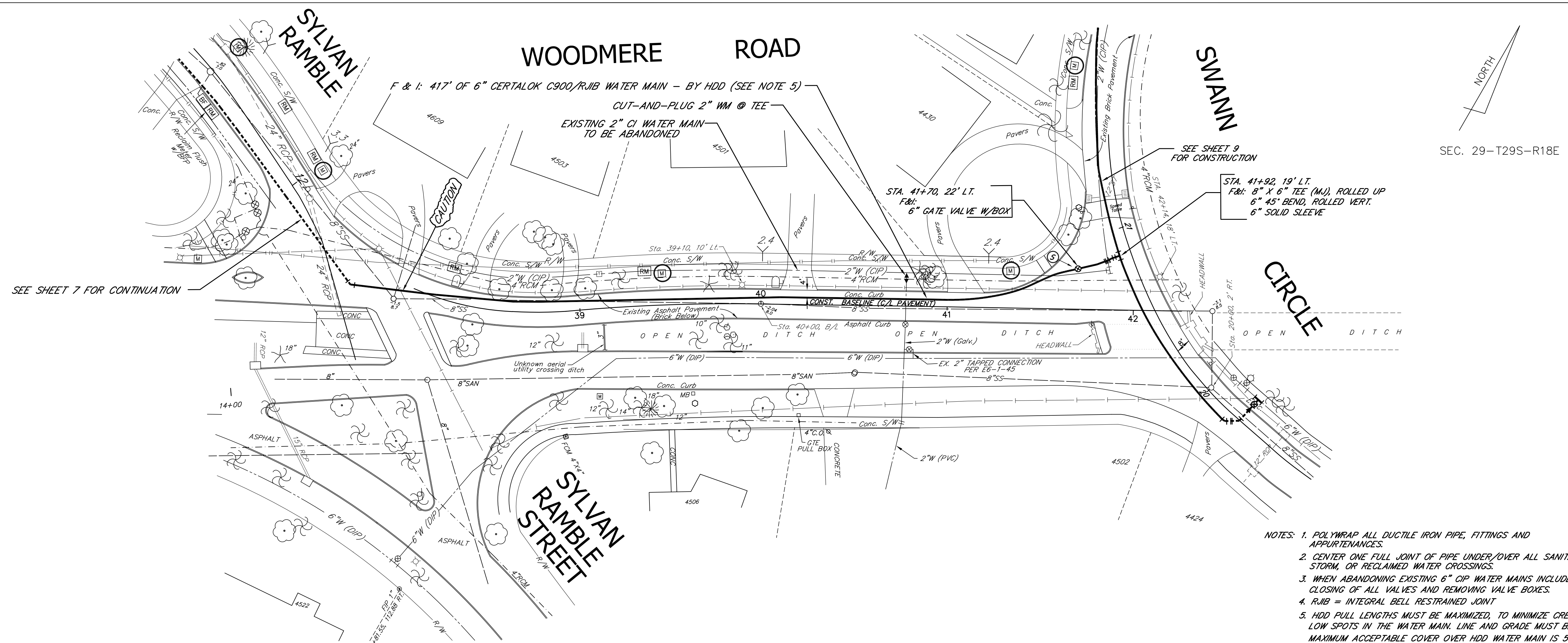
FY17 CIP
CAST IRON MAIN REPLACEMENT

SYLVAN RAMBLE ST. - from West Shore Boulevard
to Woodmere Road

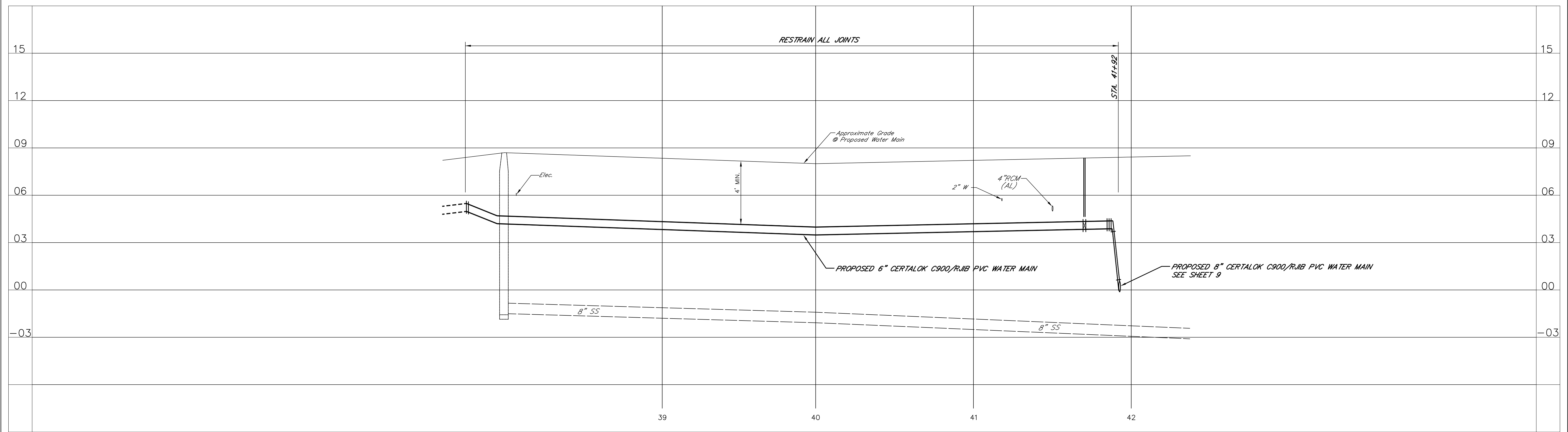


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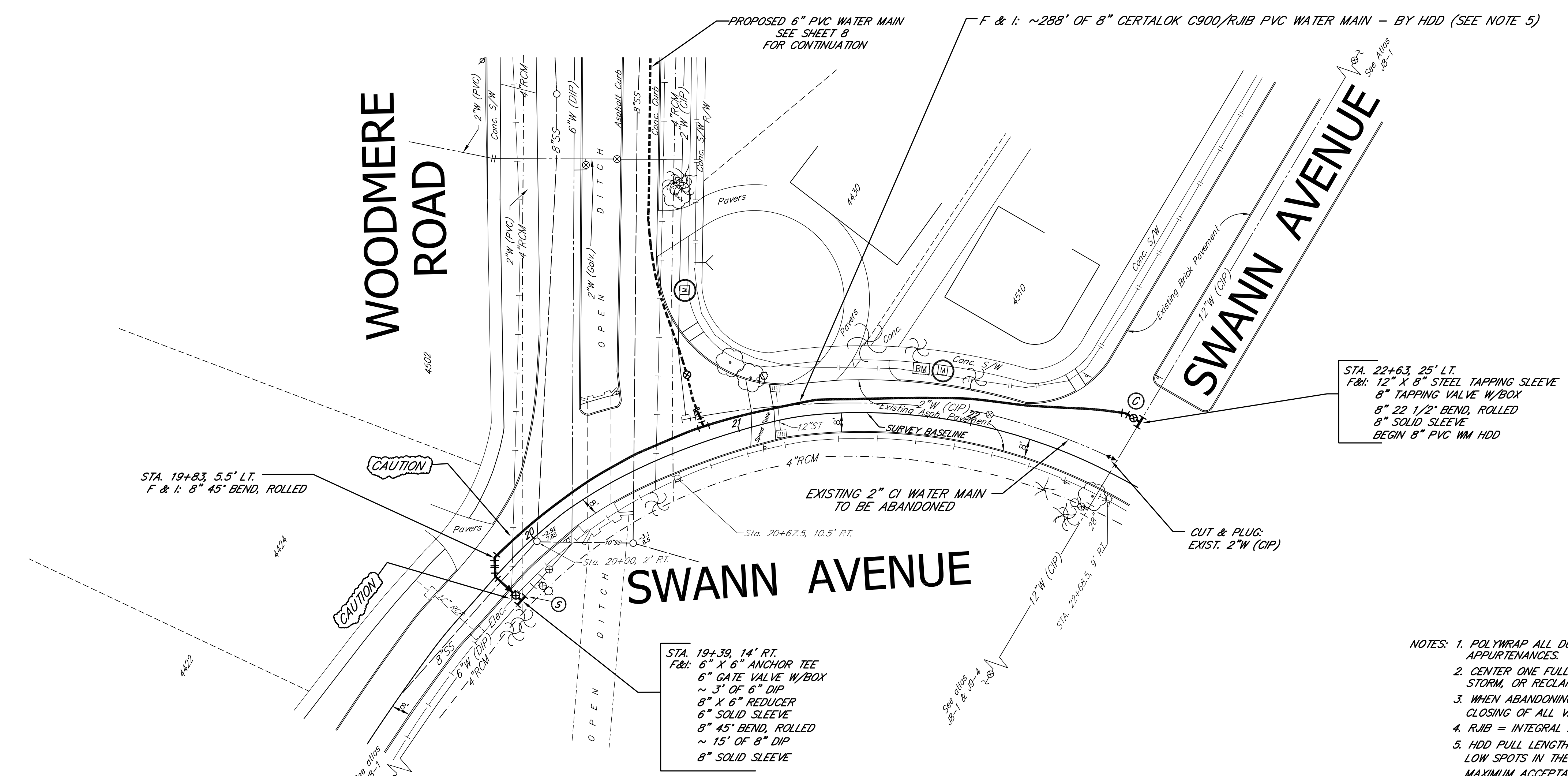
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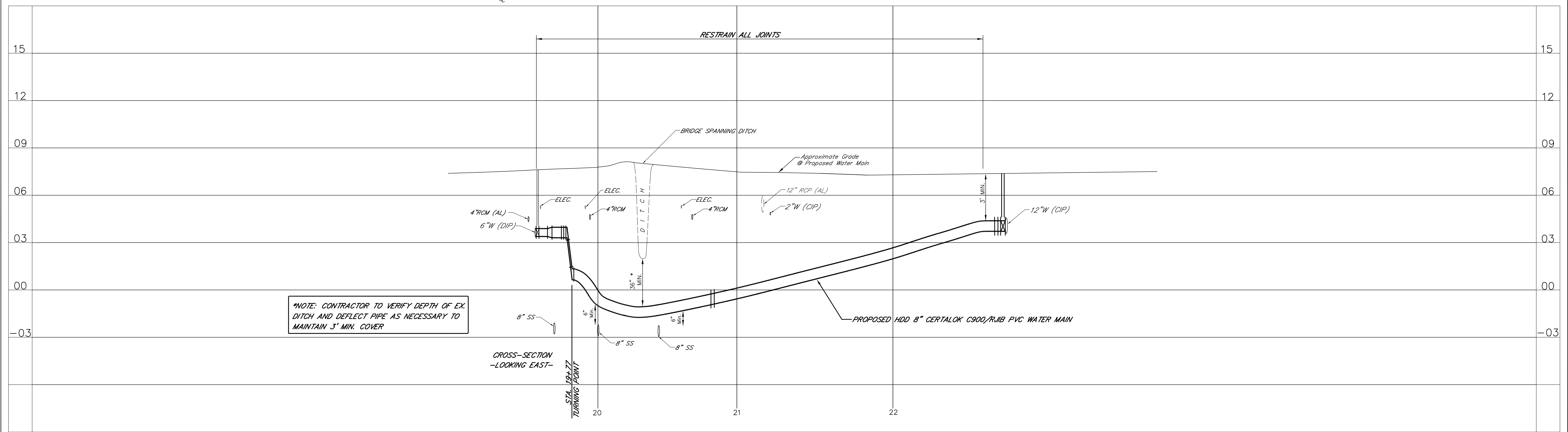
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NORTH
SEC. 29-T29S-R18E



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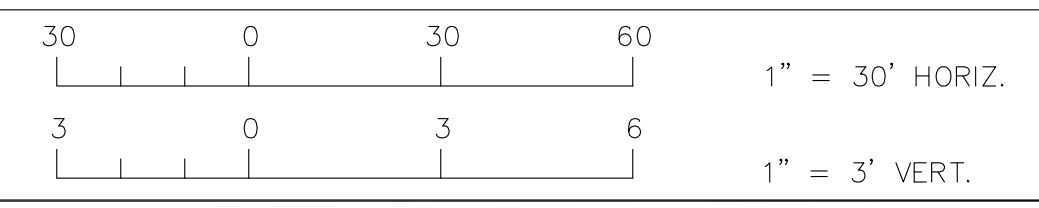


*NOTE: CONTRACTOR TO VERIFY DEPTH OF EX. DITCH AND DEFLECT PIPE AS NECESSARY TO MAINTAIN 3' MIN. COVER



FY17 CIP
CAST IRON MAIN REPLACEMENT

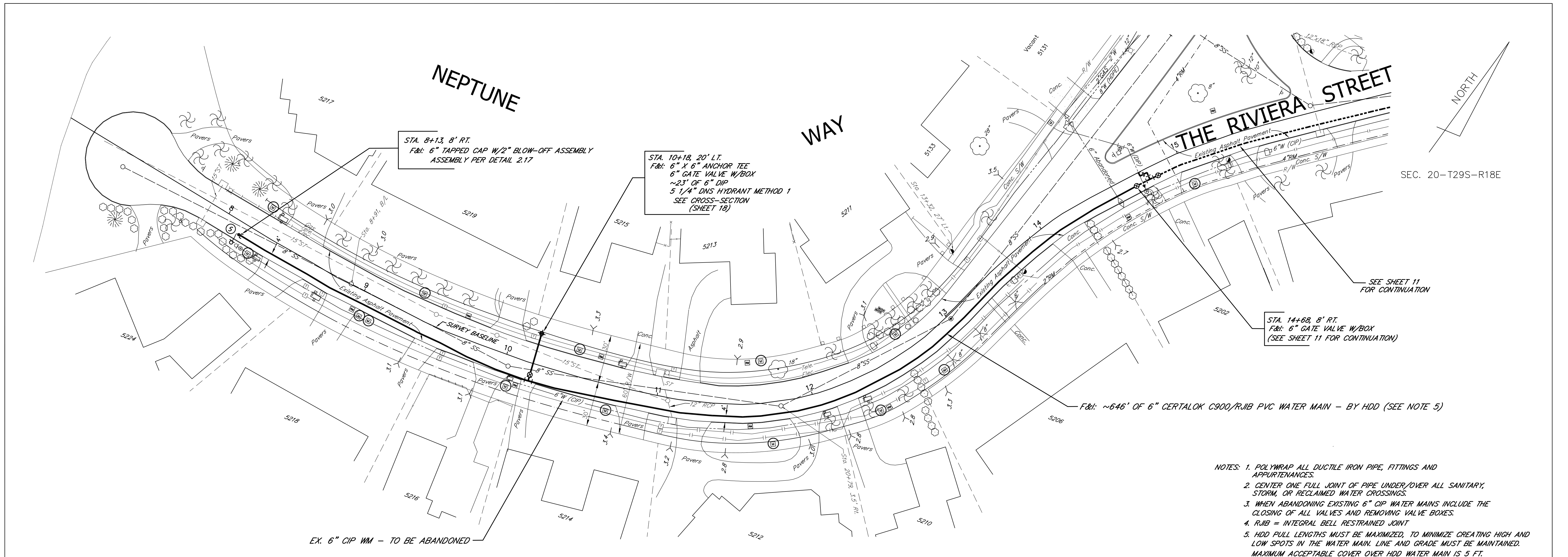
SWANN CIRCLE - from Woodmere Road to Swann Avenue



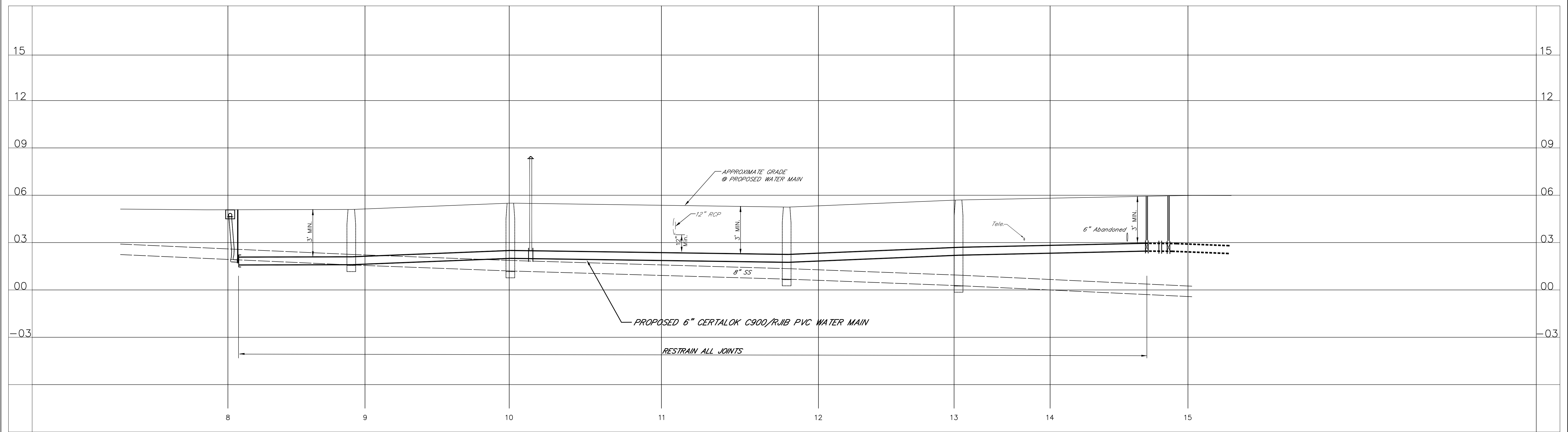
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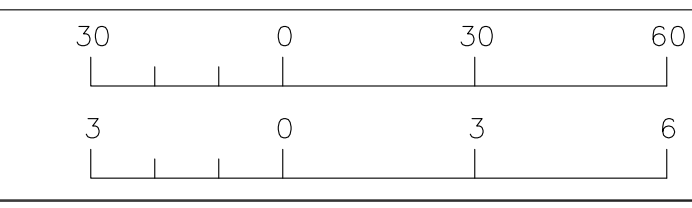


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FY17 CIP
CAST IRON MAIN REPLACEMENT

NEPTUNE WAY – from the Cul de Sac
to The Riviera Street

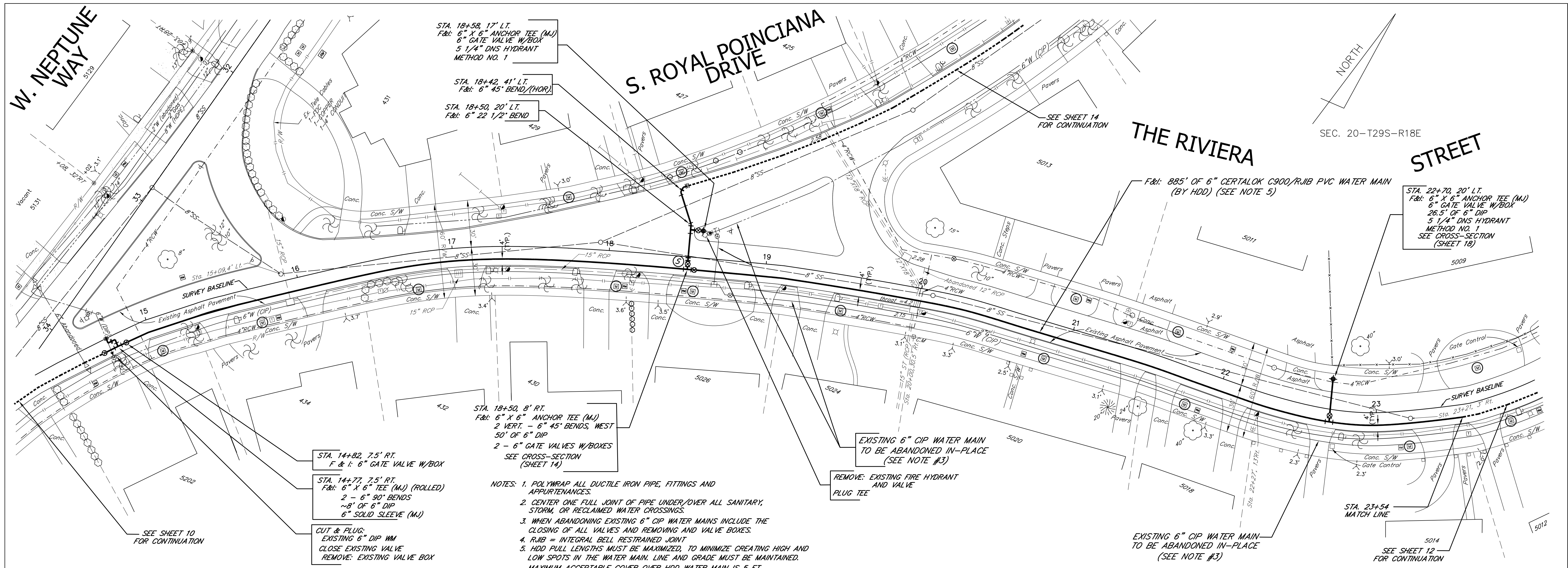


1" = 30' HORIZ.
1" = 3' VERT.

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STA. 14+82, 7.5' RT.
F&I: 6" GATE VALVE W/BOX

STA. 14+77, 7.5' RT.
F&I: 6" X 6" TEE (MJ) (ROLLED)
2 - 6" 90° BENDS
~8' OF 6" DIP
6" SOLID SLEEVE (MJ)

CUT & PLUG:
EXISTING 6" DIP WM
CLOSE EXISTING VALVE
REMOVE: EXISTING VALVE BOX

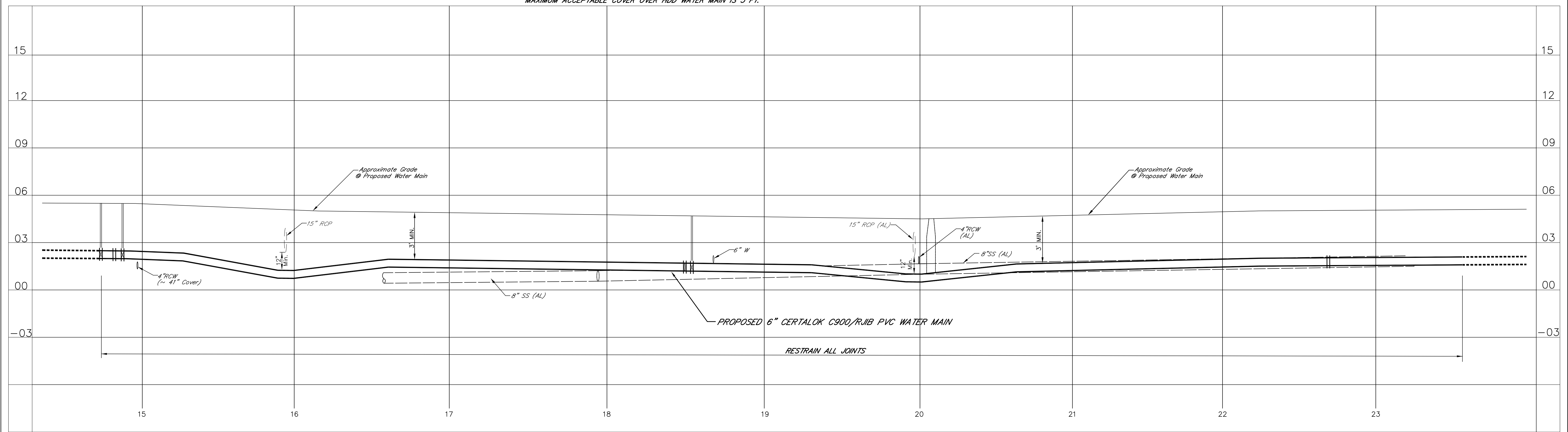
STA. 18+50, 8' RT.
F&I: 6" X 6" ANCHOR TEE (MJ)
2 VERT. - 6" 45° BENDS, WEST
50' OF 6" DIP
2 - 6" GATE VALVES W/BOXES
SEE CROSS-SECTION
(SHEET 14)

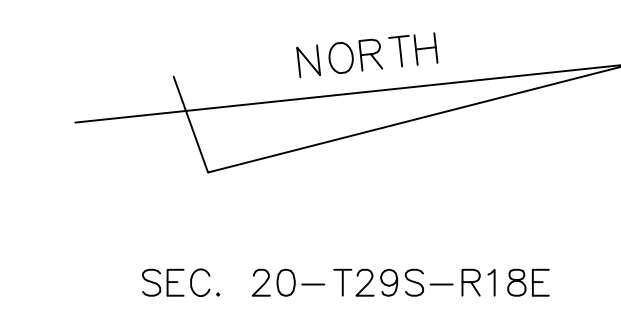
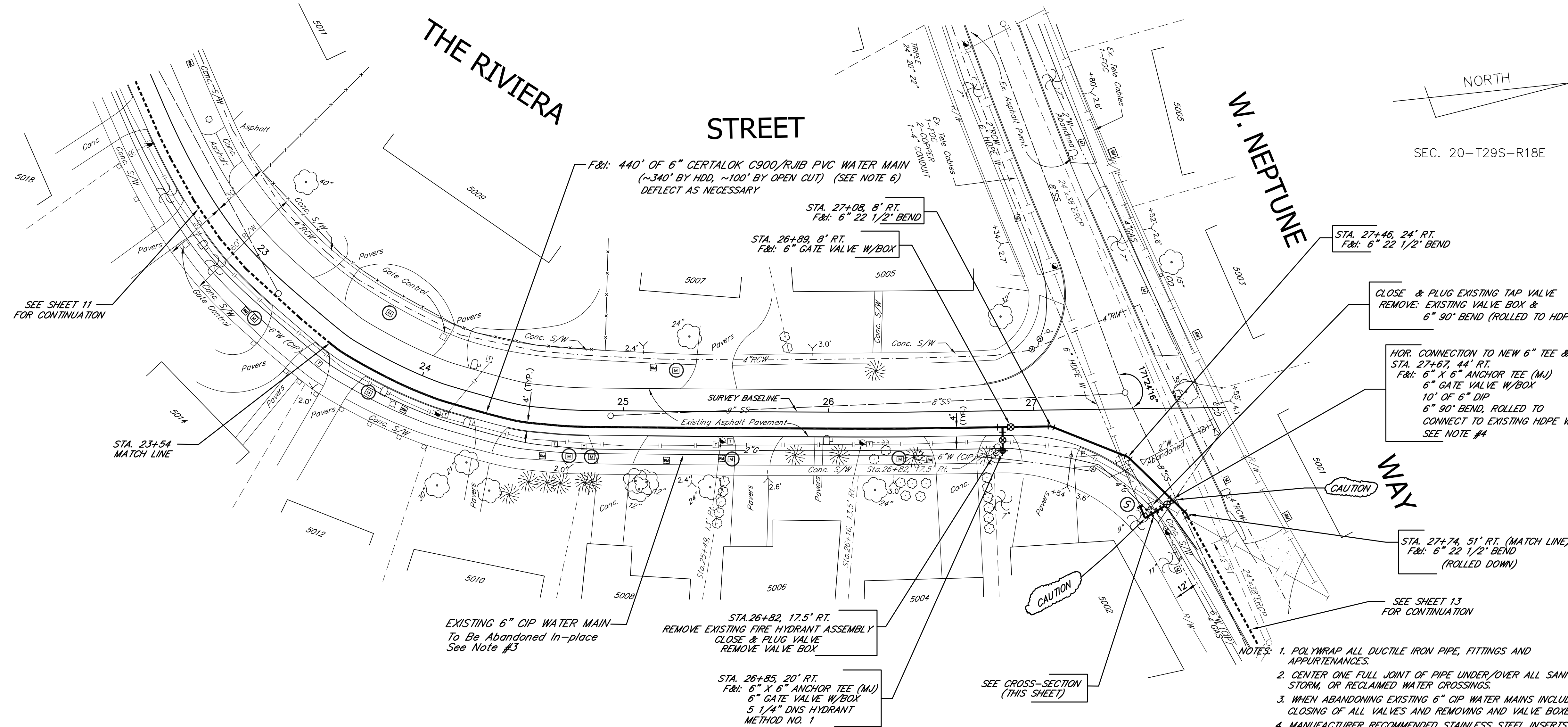
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EXISTING 6" CIP WATER MAIN
TO BE ABANDONED IN-PLACE
(SEE NOTE #3)

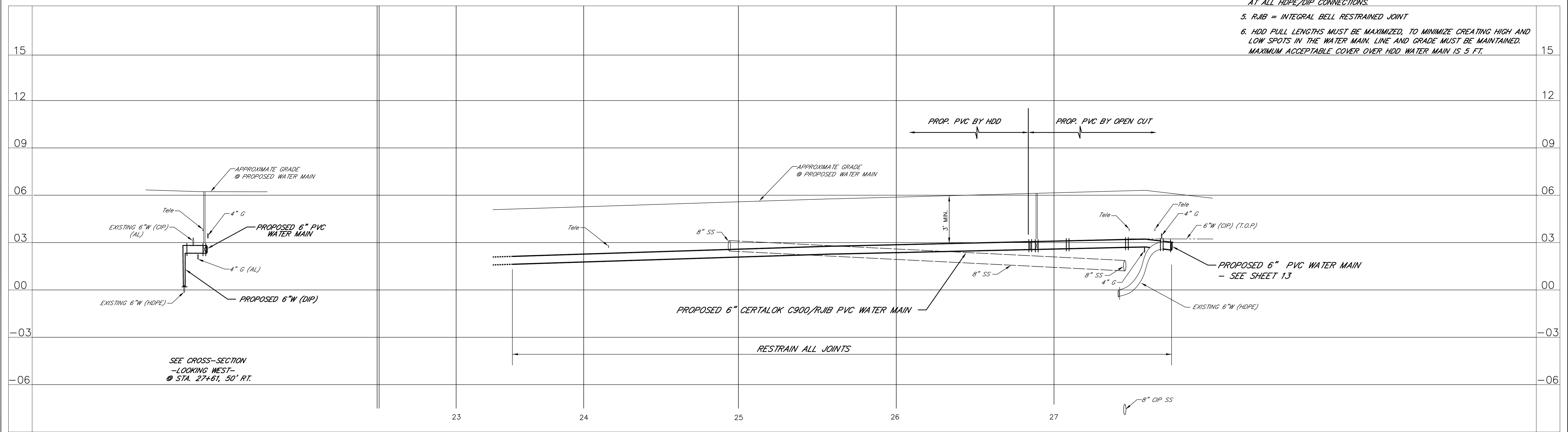
REMOVE: EXISTING FIRE HYDRANT
AND VALVE
PLUG TEE

EXISTING 6" CIP WATER MAIN
TO BE ABANDONED IN-PLACE
(SEE NOTE #3)



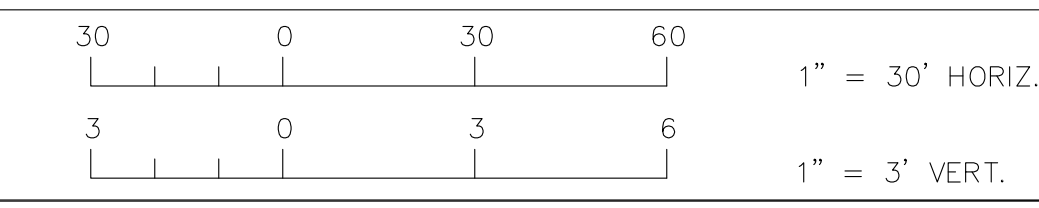


- SEE SHEET 11 FOR CONTINUATION
- SEE SHEET 13 FOR CONTINUATION
- CAUTION
- CAUTION
- SEE CROSS-SECTION (THIS SHEET)
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 4. MANUFACTURER RECOMMENDED STAINLESS STEEL INSERTS REQUIRED AT ALL HDPE/DIP CONNECTIONS.
 5. RJIB = INTEGRAL BELL RESTRAINED JOINT
 6. HDD PULL LENGTHS MUST BE MAXIMIZED, TO MINIMIZE CREATING HIGH AND LOW SPOTS IN THE WATER MAIN. LINE AND GRADE MUST BE MAINTAINED. MAXIMUM ACCEPTABLE COVER OVER HDD WATER MAIN IS 5 FT.



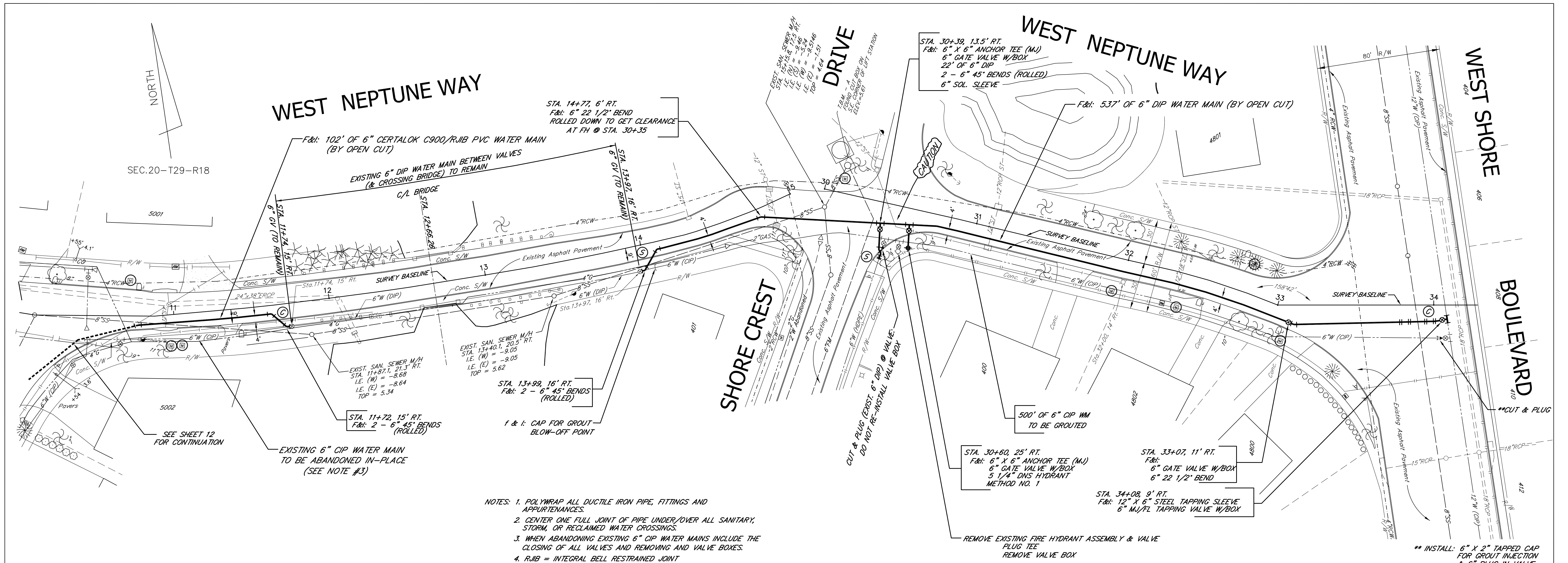
FY17 CIP
CAST IRON MAIN REPLACEMENT

THE RIVIERA STREET - from Royal Poinciana Dr. to Neptune Way

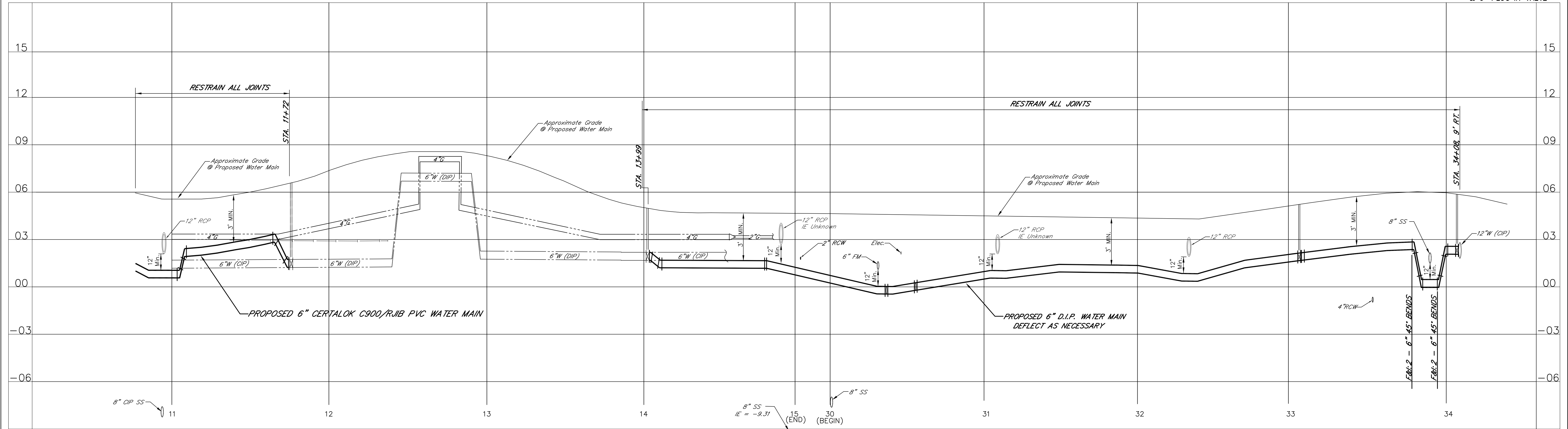


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Approved	Date

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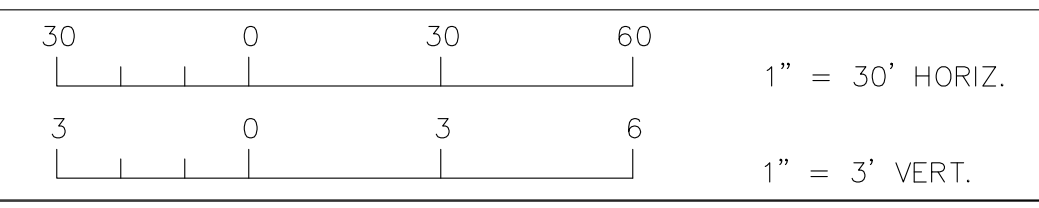


- NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
 2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL SANITARY, STORM, OR RECLAIMED WATER CROSSINGS.
 3. WHEN ABANDONING EXISTING 6" CIP WATER MAINS INCLUDE THE CLOSING OF ALL VALVES AND REMOVING AND VALVE BOXES.
 4. RJIB = INTEGRAL BELL RESTRAINED JOINT



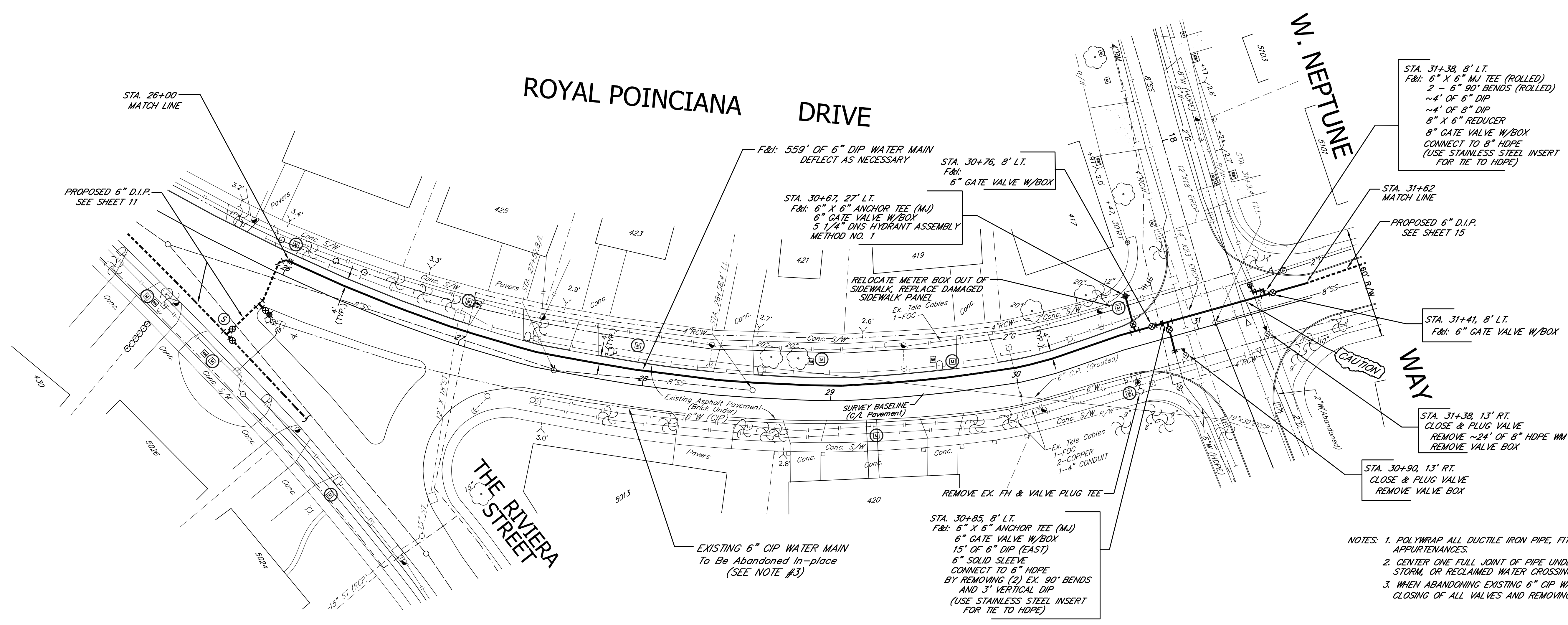
FY17 CIP
 CAST IRON MAIN REPLACEMENT

WEST NEPTUNE WAY - from The Riviera St.
 to West Shore Blvd.

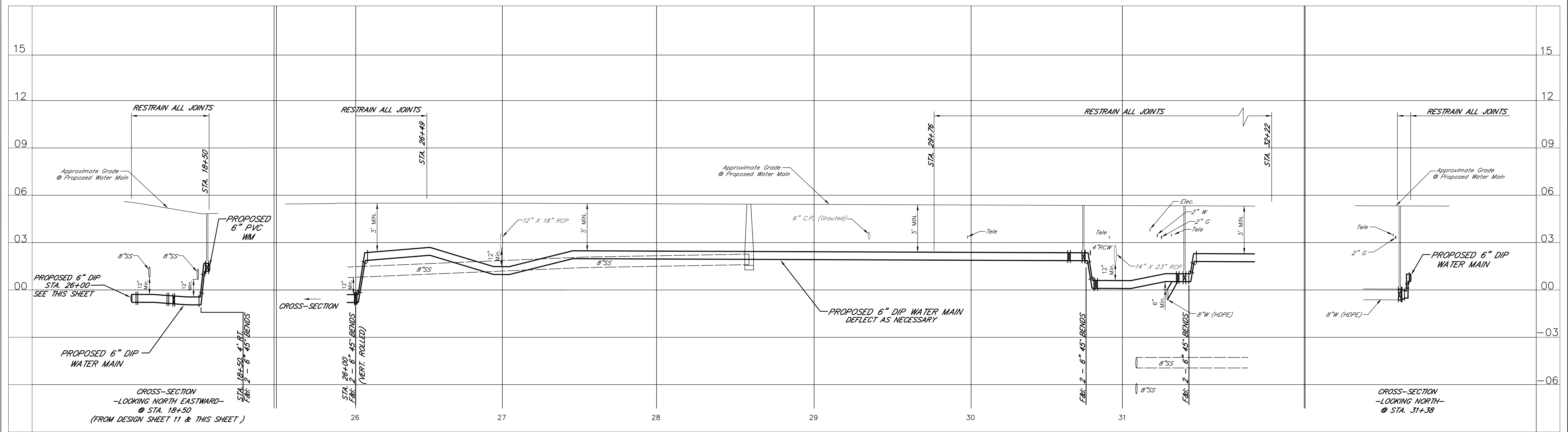


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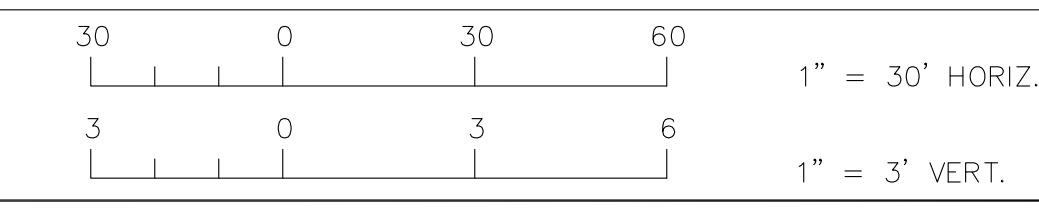


- NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL SANITARY, STORM, OR RECLAIMED WATER CROSSINGS.
3. WHEN ABANDONING EXISTING 6" CIP WATER MAINS INCLUDE THE CLOSING OF ALL VALVES AND REMOVING AND VALVE BOXES.



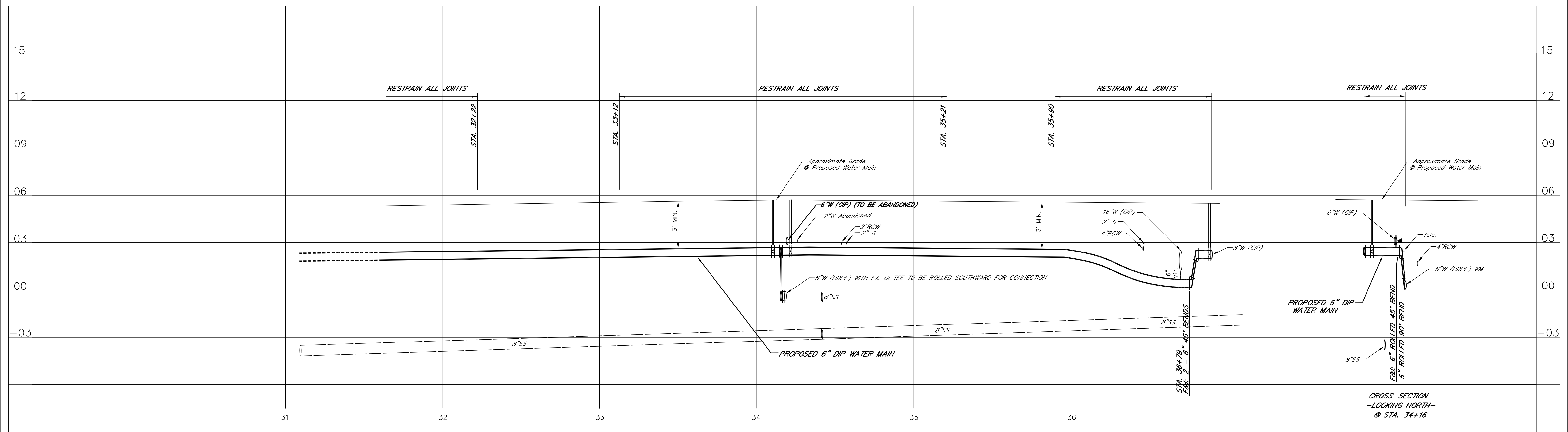
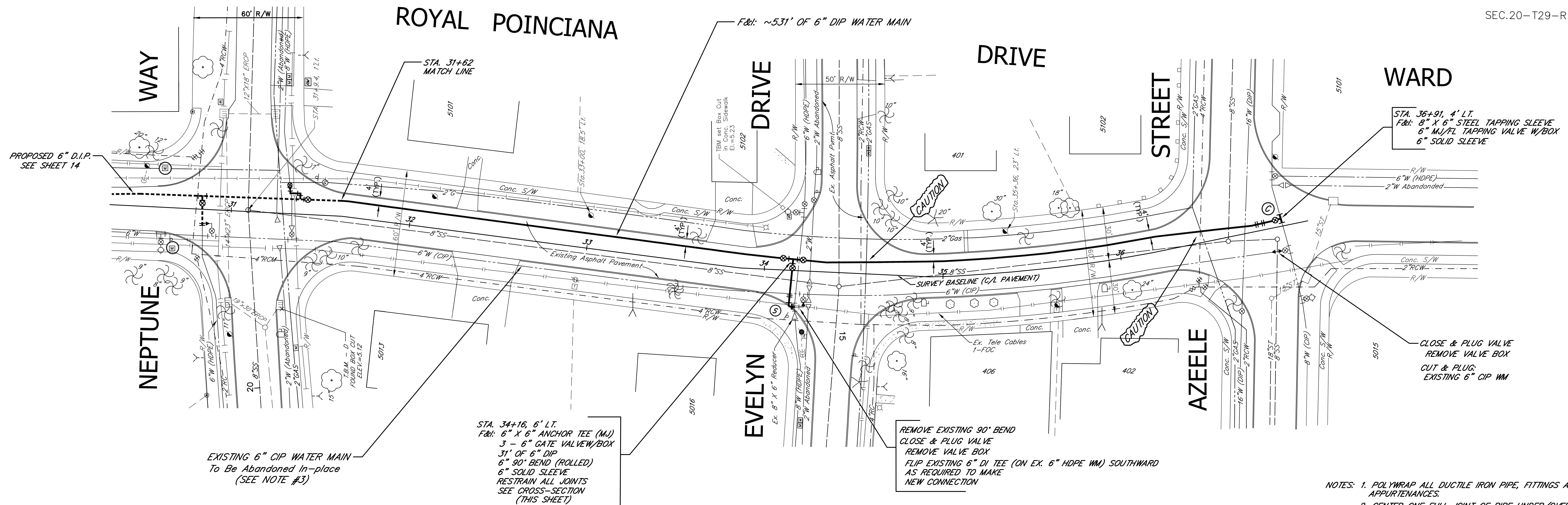
FY17 CIP
CAST IRON MAIN REPLACEMENT

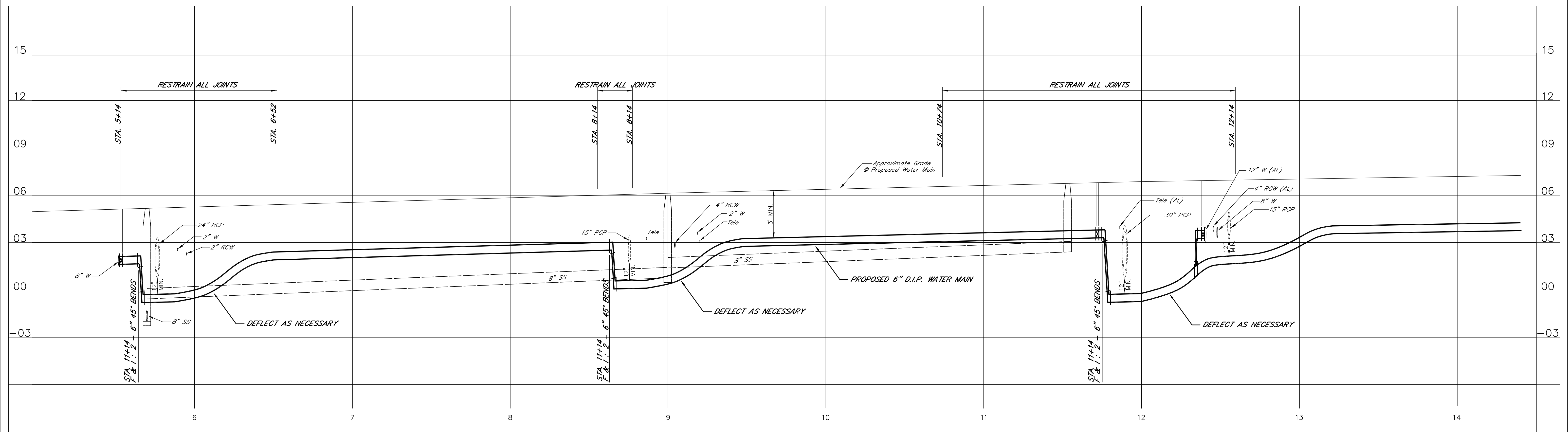
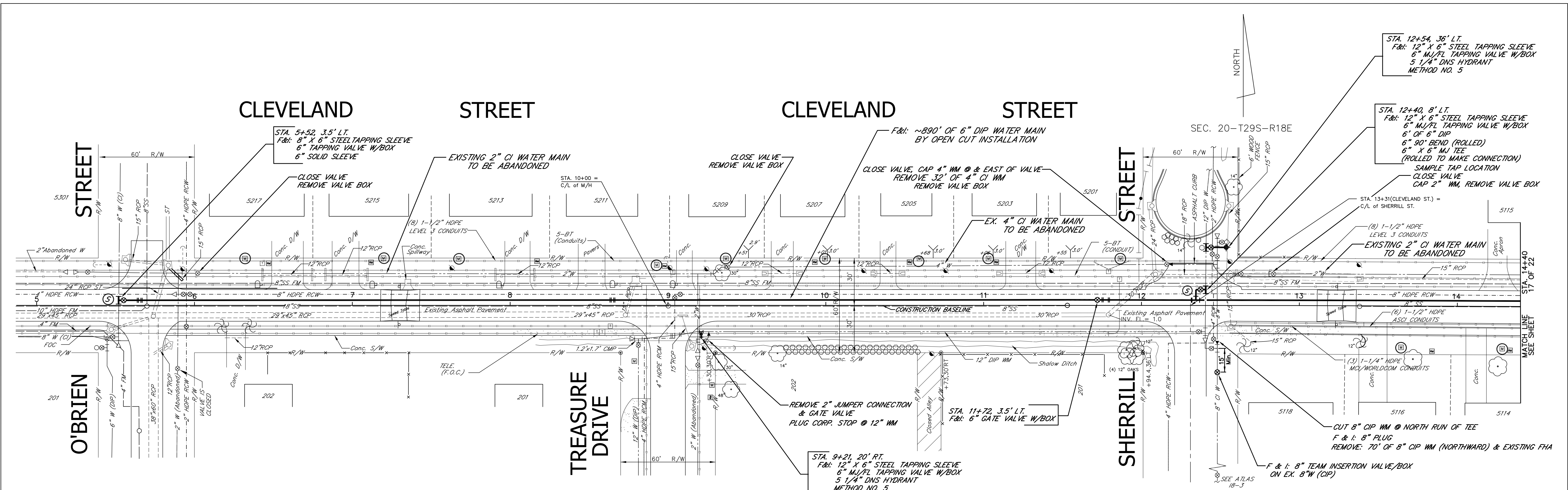
ROYAL POINCIANA DR. - from The Riviera St. to Neptune Way



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CLEVELAND STREET

CLEVELAND STREET

CLEVELAND STREET

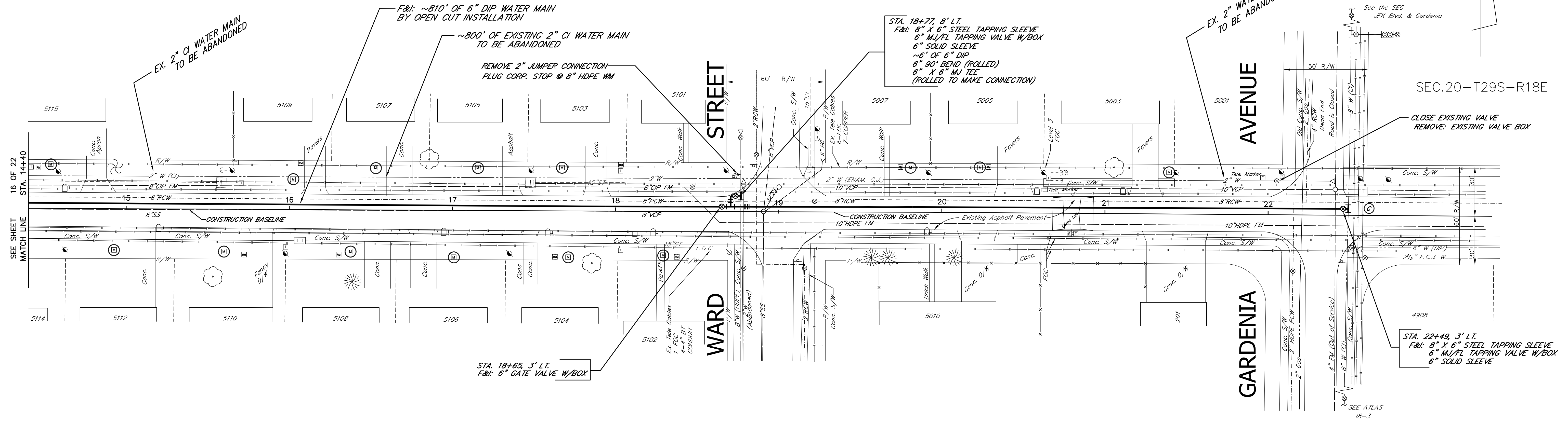
CLEVELAND STREET

AVENUE

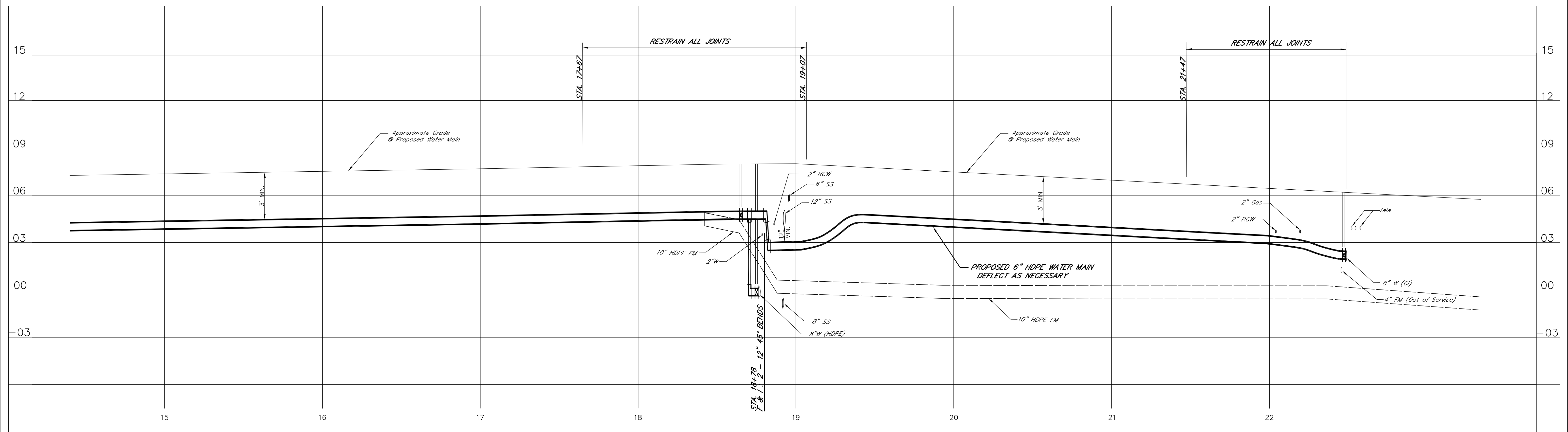
GARDENIA

NORTH

SEC.20-T29S-R18E

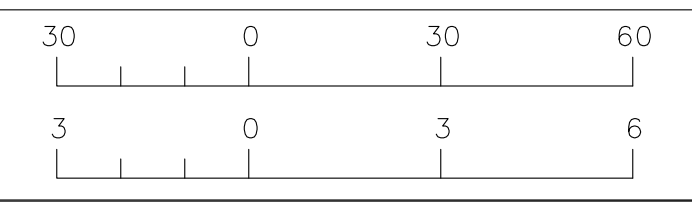


- NOTES: 1. POLYWRAP ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES.
 2. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL SANITARY, STORM, OR RECLAIMED WATER CROSSINGS.



FY17 CIP
 CAST IRON MAIN REPLACEMENT

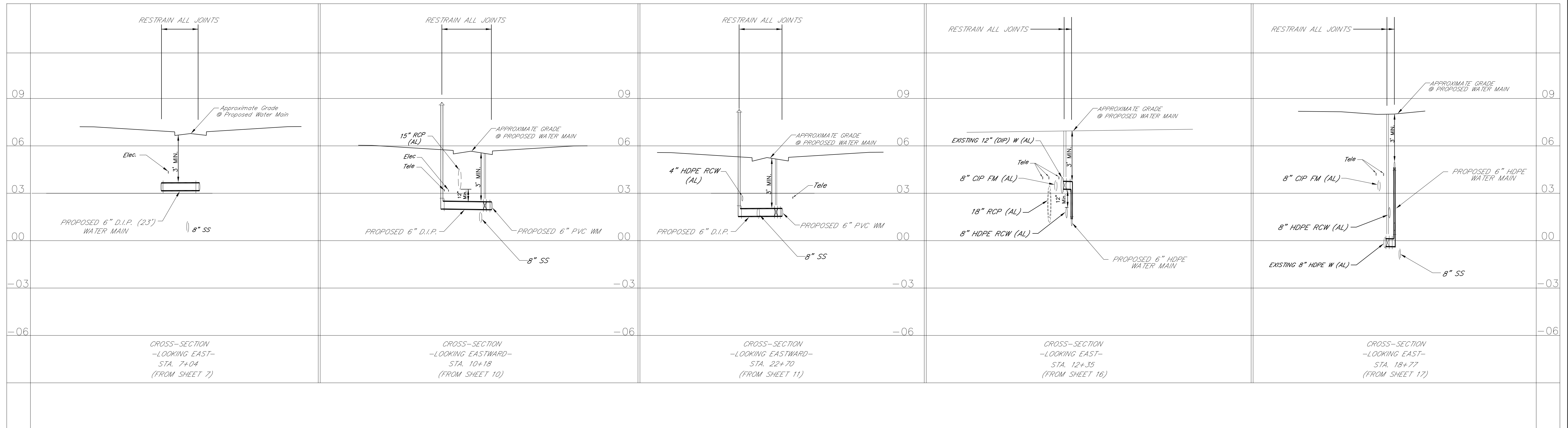
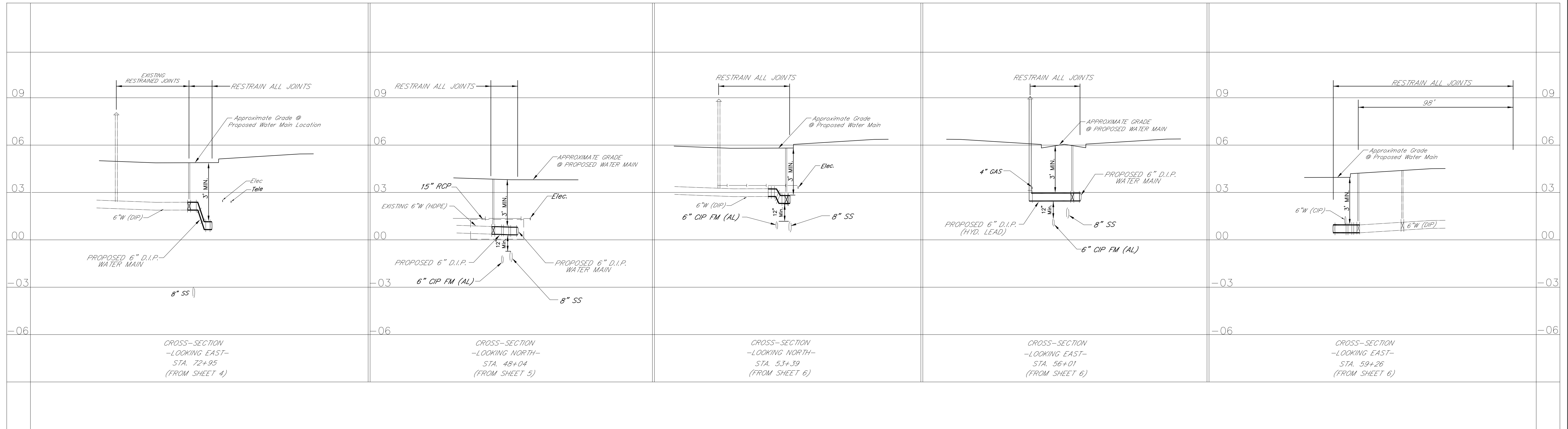
CLEVELAND STREET - from east of Sherrill St.
 to Gardenia Avenue



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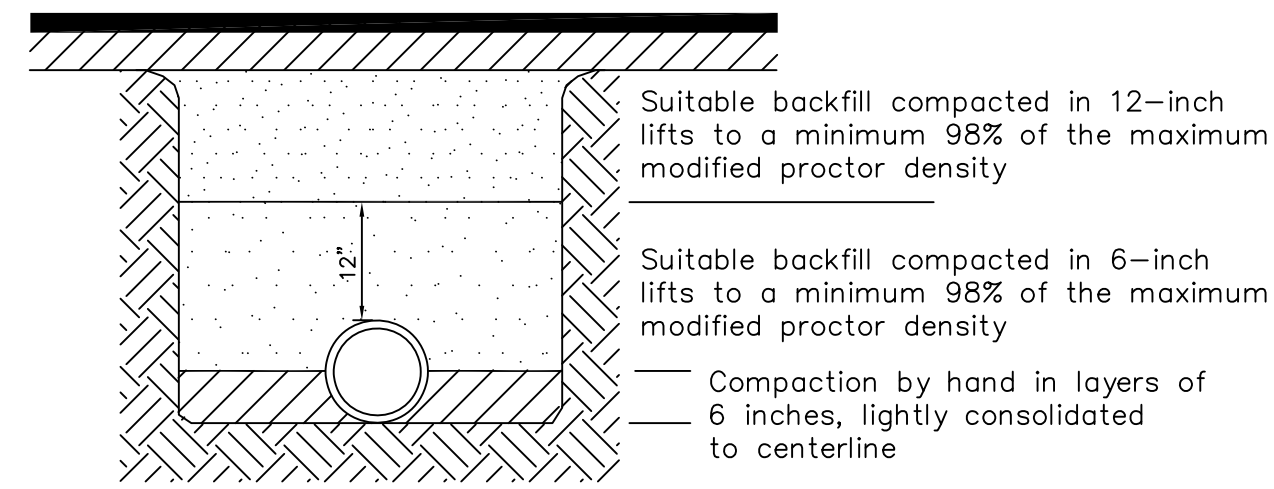


FY17 CIP
CAST IRON MAIN REPLACEMENT

CROSS-SECTIONS

CULBREATH BAYOU

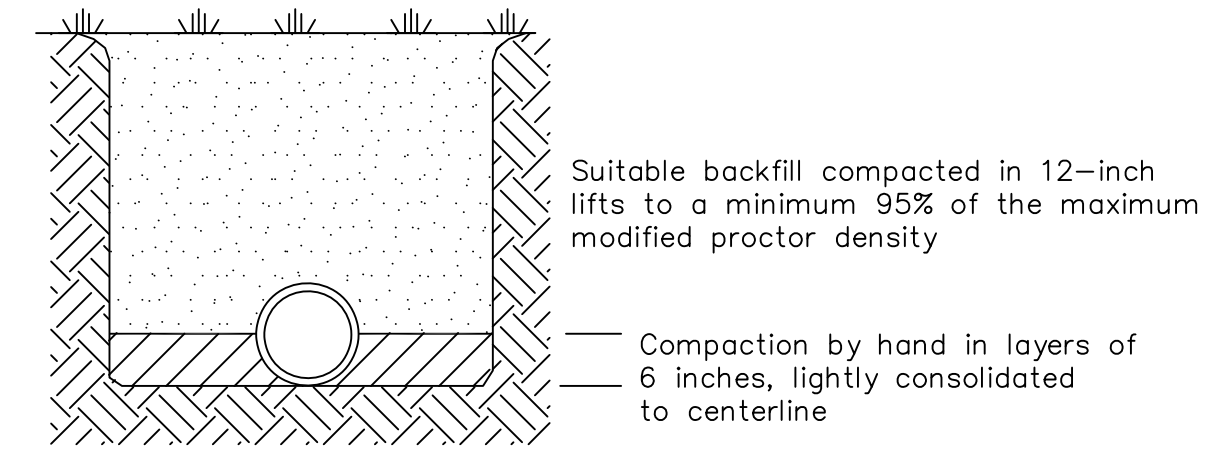
Atlas Page	18-3	No.	Date	REVISION	By	Des: RNM	W.O. 8397	File: Culbreath Bayou (CP 2017)
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NOTES:

1. Type 2 trench is defined as a flat-bottom trench. Lightly consolidate backfill to centerline of pipe.
2. This standard shall be utilized in the absence of specific standards. The standard of the agency controlling the Right-of-Way shall govern unless otherwise directed by the Engineer.
3. Suitable backfill shall be defined as material free from cinders, ashes, refuse, clay, organic matter, boulders, rocks or stones, or other material that in the opinion of the Engineer is unsuitable.
4. Non-pervious areas shall mean any concrete or asphalt curb, sidewalk, trail, driveway, or roadway.

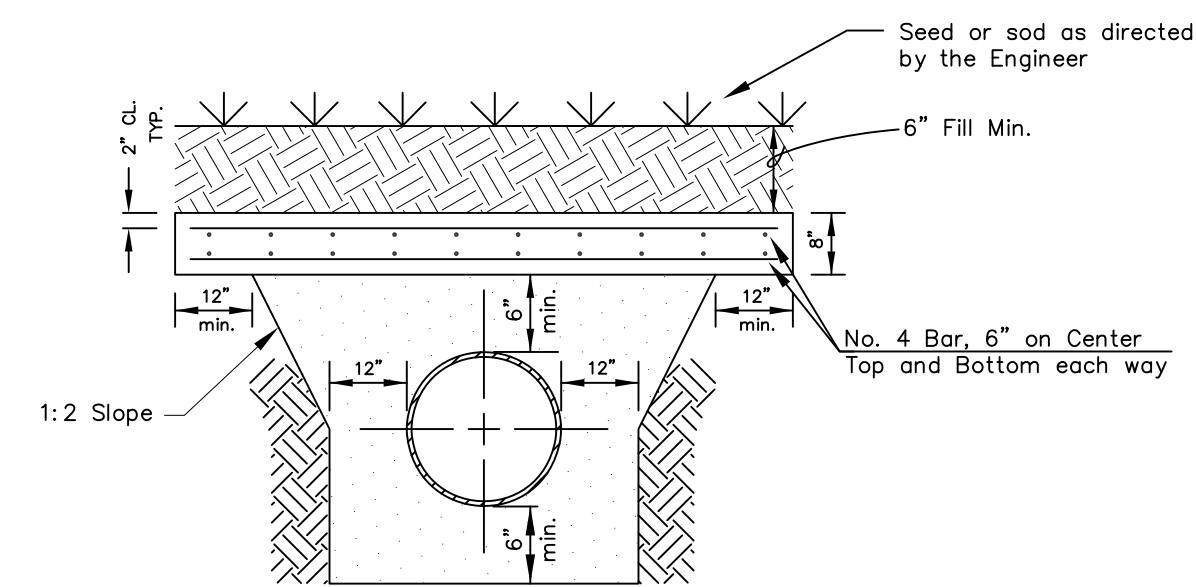
TAMPA WATER DEPARTMENT	APPROVED Feb. 2014	REVISED	TRENCHING, BEDDING AND BACKFILL DETAIL FOR NON-PERVIOUS (paved) AREAS	2.01
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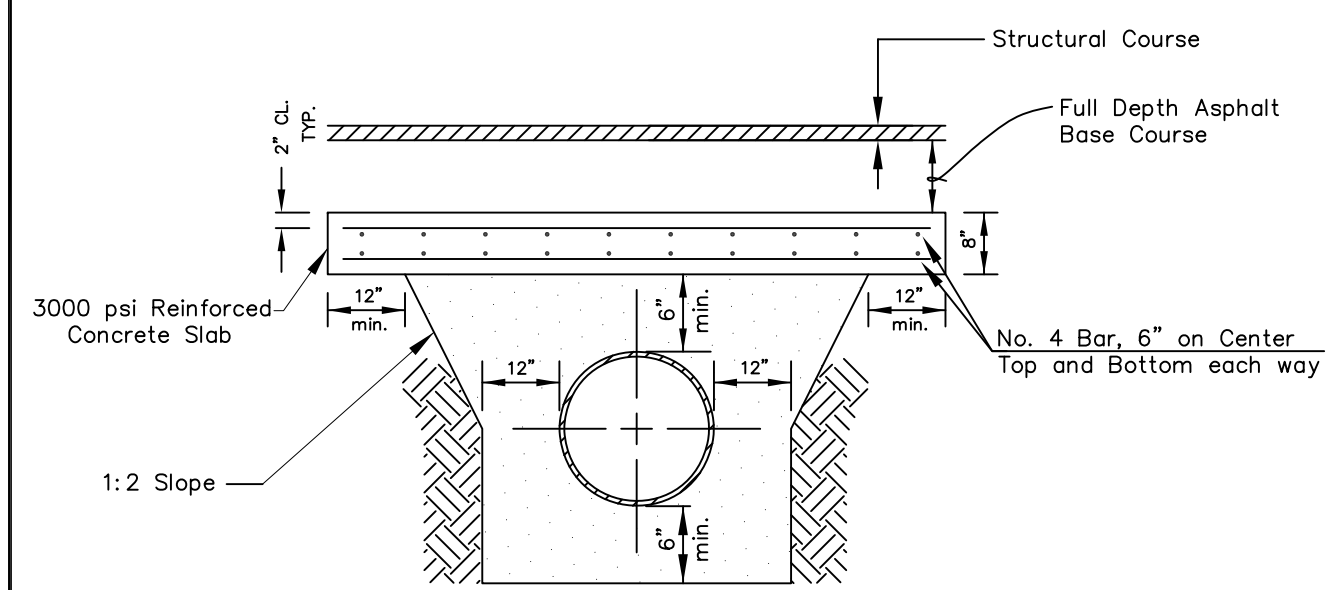
NOTES:

1. Type 2 trench is defined as a flat-bottom trench. Lightly consolidate backfill to centerline of pipe.
2. This standard shall be utilized in the absence of specific standards. The standard of the agency controlling the Right-of-Way shall govern unless otherwise directed by the Engineer.
3. Suitable backfill shall be defined as material free from cinders, ashes, refuse, clay, organic matter, boulders, rocks or stones, or other material that in the opinion of the Engineer is unsuitable.
4. Non-paved area is a pervious area. If any part of the trench is within a concrete or asphalt curb, sidewalk, driveway, or roadway, then Standard Detail 2.01 applies.

TAMPA WATER DEPARTMENT	APPROVED Sept. 2011	REVISED JRD 9/2011	TRENCHING, BEDDING AND BACKFILL DETAIL FOR PERVIOUS (non-paved) AREAS	2.02
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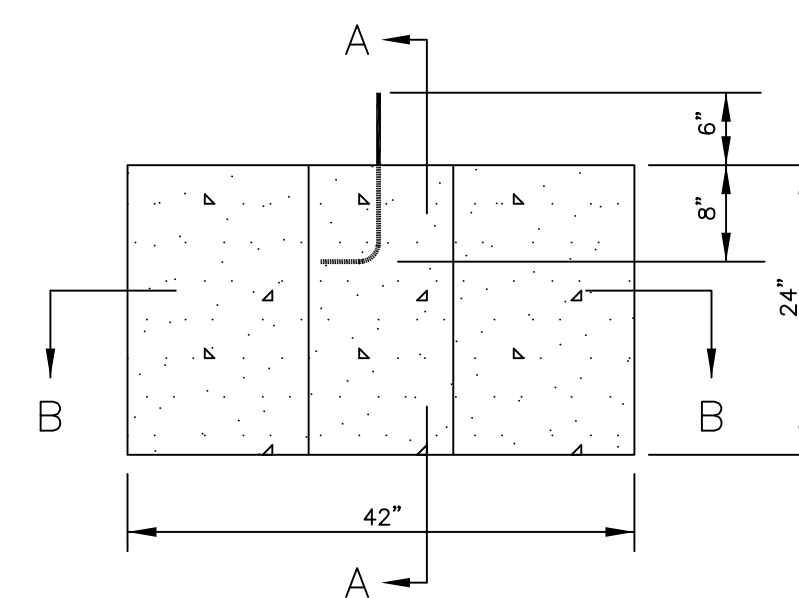
GRASSED SECTION



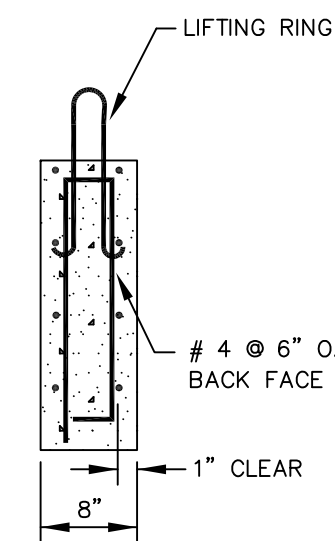
ROADWAY SECTION

- NOTES:
1. Structural course and base course requirement shall be established by the agency having jurisdiction.
 2. Shock pads for mains too shallow for the above configuration shall be designed on a case-by-case basis.

TAMPA WATER DEPARTMENT	APPROVED Sept. 2011	REVISED	REINFORCED CONCRETE SHOCK PAD (FOR COVER LESS THAN 2.5')	2.06
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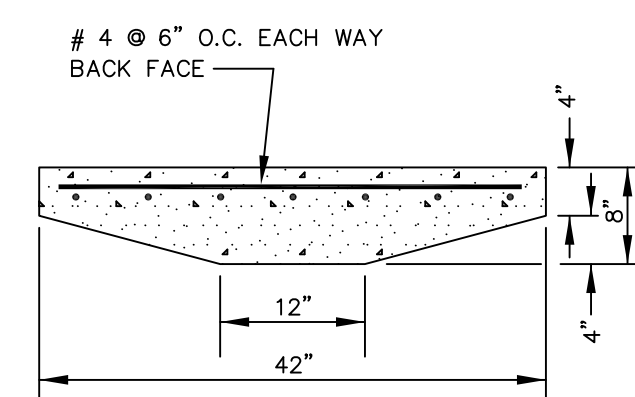
ELEVATION



SECTION A-A

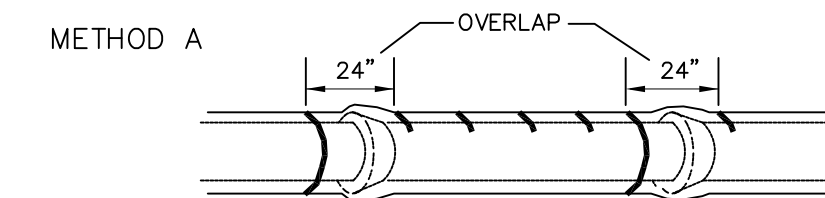
Notes:

1. Reinforcing to be standard 60 ksi deformed bar.
2. Concrete $f'c=3000$ psi
3. Precast thrust blocking to be used only on fire hydrants and 8" or smaller fittings, if allowed by the Engineer.
4. A 12"x18" spacer block shall be placed between the precast thrust block and fitting if so directed by the Engineer.

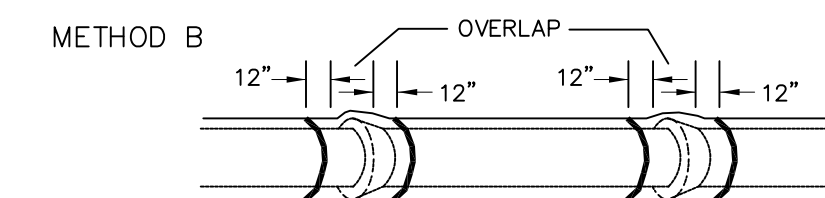


SECTION B - B

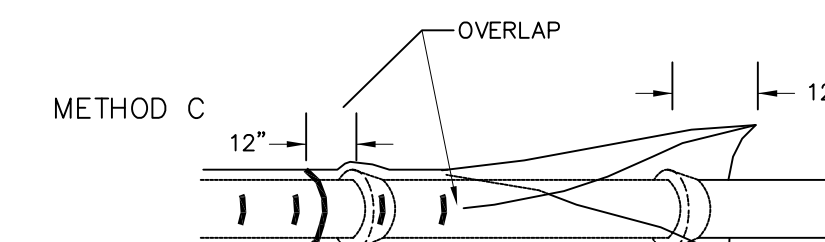
TAMPA WATER DEPARTMENT	APPROVED April, 2009	REVISED	PRECAST CONCRETE THRUST BLOCK	2.10
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Polyethylene tube is cut into lengths approximately two feet longer than the pipe section and placed around it. After the pipe joint is assembled, the polyethylene tube is made to overlap the joint and the overlap secured in place. Since the tube is considerably larger than the barrel of pipe, it is made to fit snugly by folding over at the top and securing with tape every 24" along the pipe section.



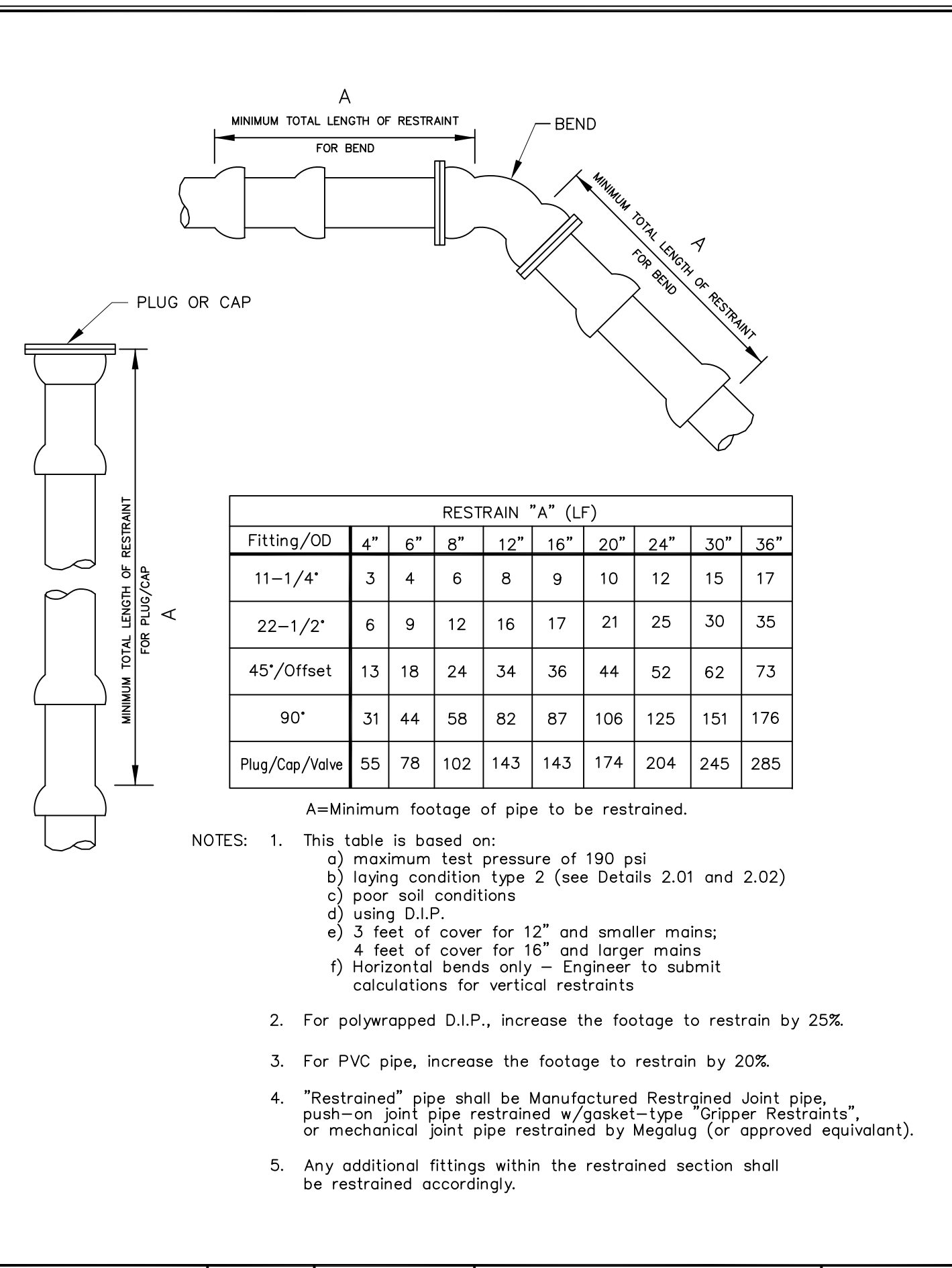
Polyethylene tube is cut one foot shorter than the length of the pipe section. After placement of the pipe, it is folded and secured snugly overall. A three foot length of polyethylene tube placed over the end of the preceding section is then pulled in place over the joint after assembly and secured.



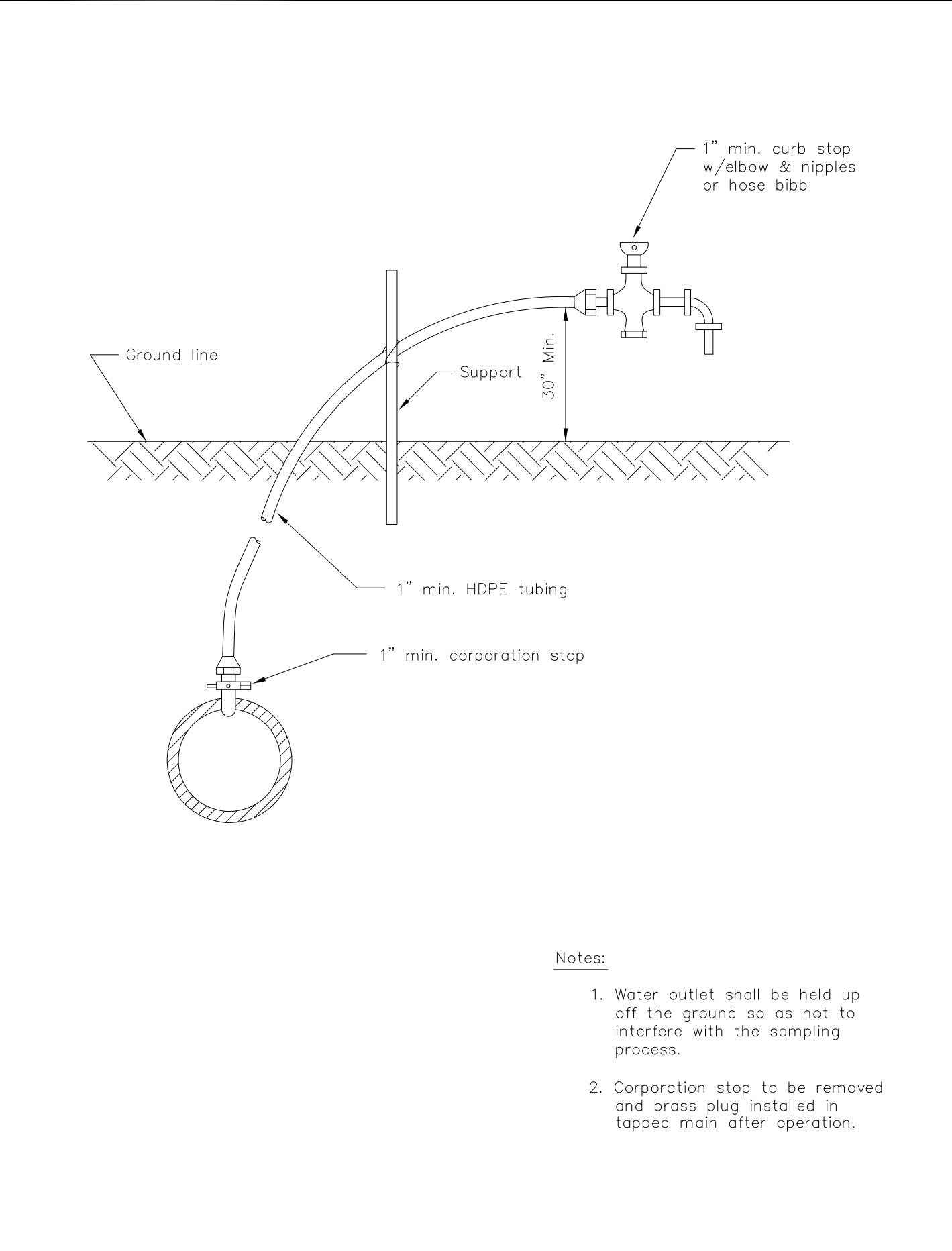
Polyethylene sheet is cut to a length two feet longer than the pipe section. The sheet is wrapped around the pipe so that it overlaps circumferentially over the top quadrant of the pipe, then secured. After joint assembly, the surplus length of polyethylene film is secured around the joint, providing an overlap of each joint. Tape at each joint and at 3' intervals in between.

- NOTES:
1. Use blue polyethylene film and tape only.
 2. Polyethylene film shall be a minimum of 8 mil. thickness.
 3. Spiral Wrap not required with polywrap.

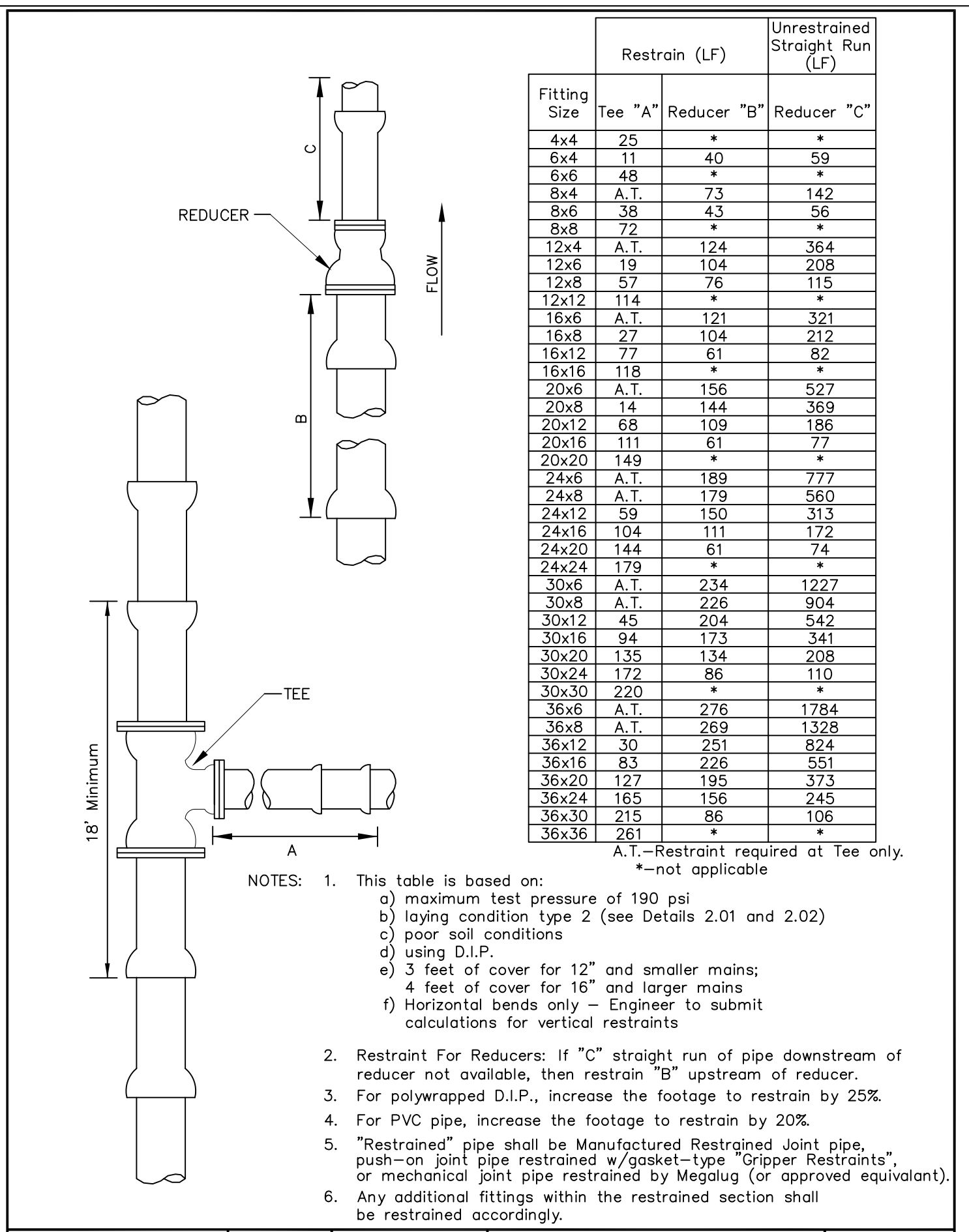
TAMPA WATER DEPARTMENT	APPROVED Sept. 2011	REVISED JRD 4/09 JRD 9/2011	POLYETHYLENE ENCASEMENT INSTALLATION DETAIL	2.05
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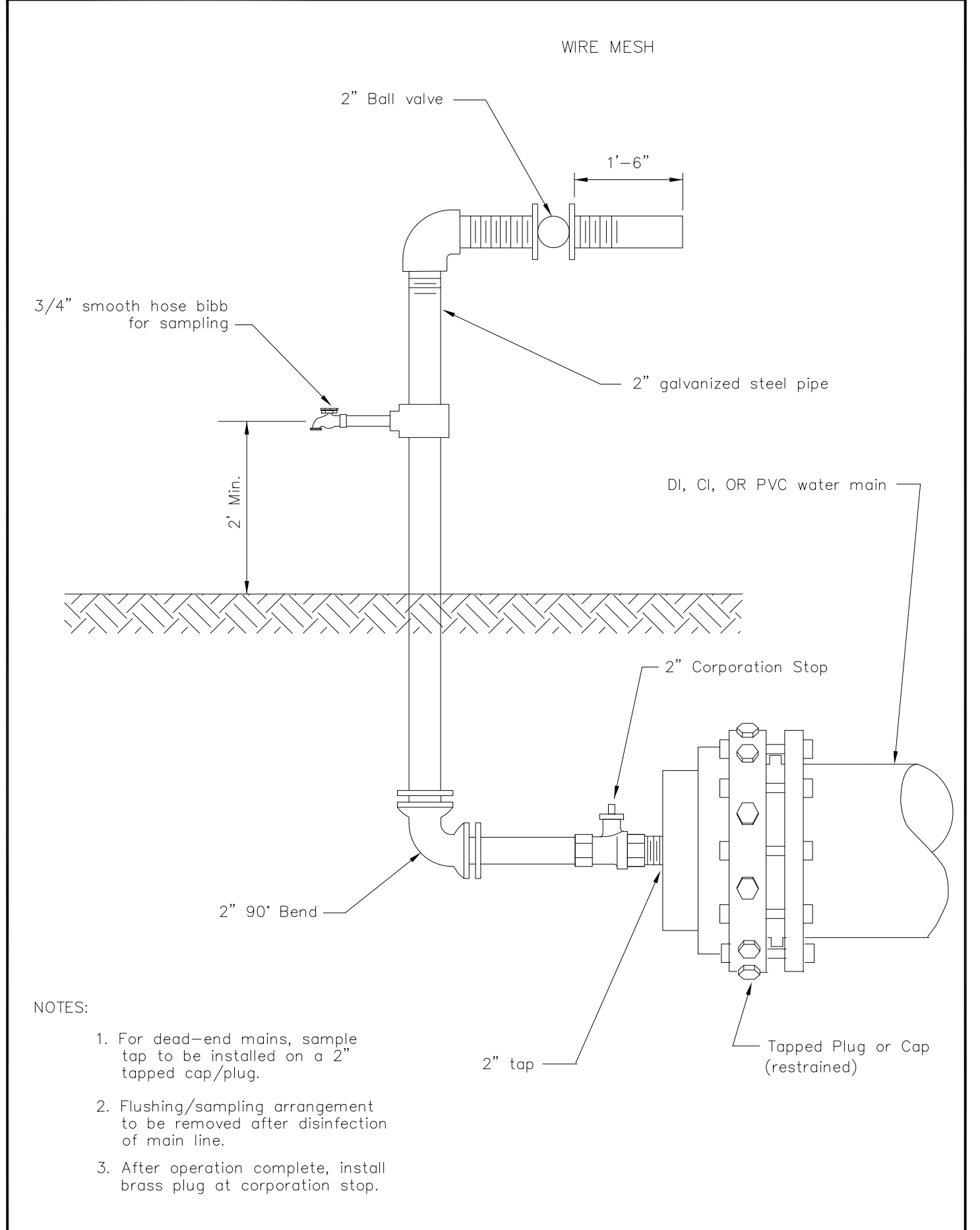
TAMPA WATER DEPARTMENT	APPROVED April, 2009	REVISED	RESTRAINED JOINT STANDARD FOR BENDS, PLUGS, CAPS & VALVES	2.11
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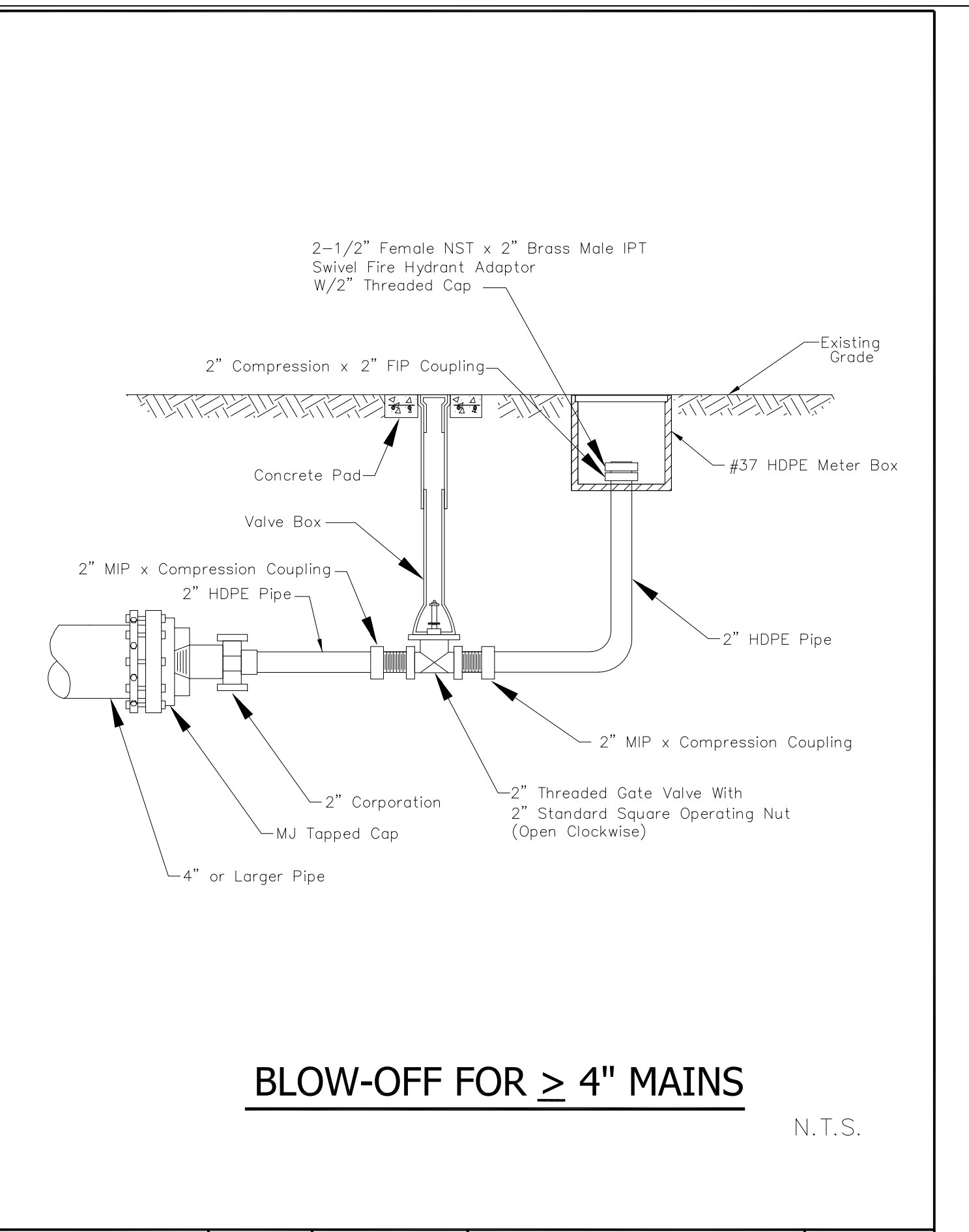
TAMPA WATER DEPARTMENT	APPROVED Sept. 2011	REVISED	TEMPORARY SAMPLE TAP INSTALLATION w/DI, CI, OR PVC PIPE	2.18
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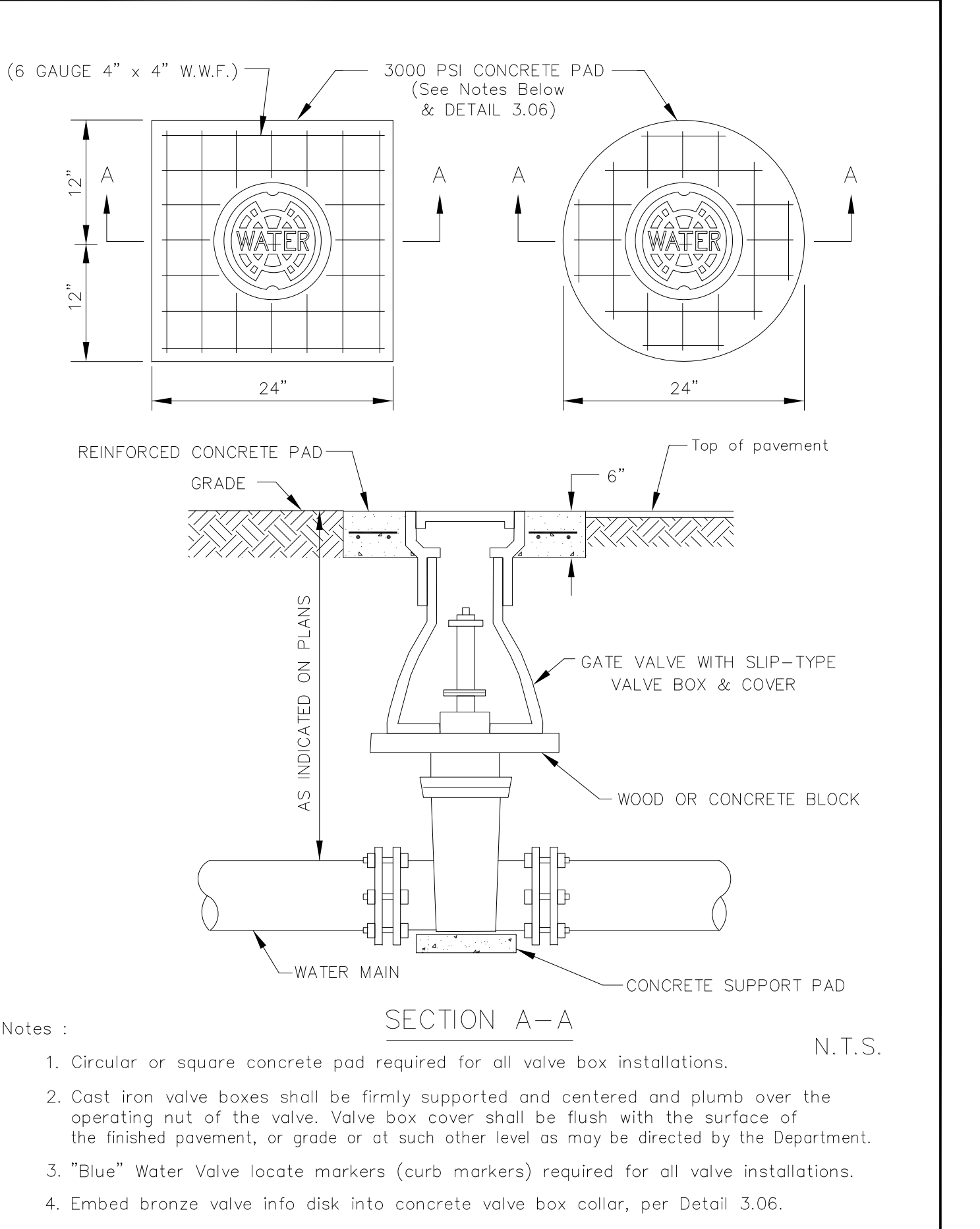
TAMPA WATER DEPARTMENT	APPROVED Sept., 2011	REVISED	RESTRAINED JOINT STANDARD FOR TEES AND REDUCERS	2.12
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TAMPA WATER DEPARTMENT	APPROVED Sept. 2011	REVISED	TEMPORARY SAMPLE TAP INSTALLATION FOR END OF LINE w/DI, CI, OR PVC PIPE	2.19
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TAMPA WATER DEPARTMENT	APPROVED April, 2009	REVISED	BLOW-OFF VALVE ASSEMBLY FOR ≥4" MAINS w/DI, CI OR PVC PIPE	2.17
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TAMPA WATER DEPARTMENT	APPROVED Sept. 2015	REVISED	VALVE INSTALLATION w/VALVE BOX & PAD FOR DI, CI OR PVC PIPE	3.01
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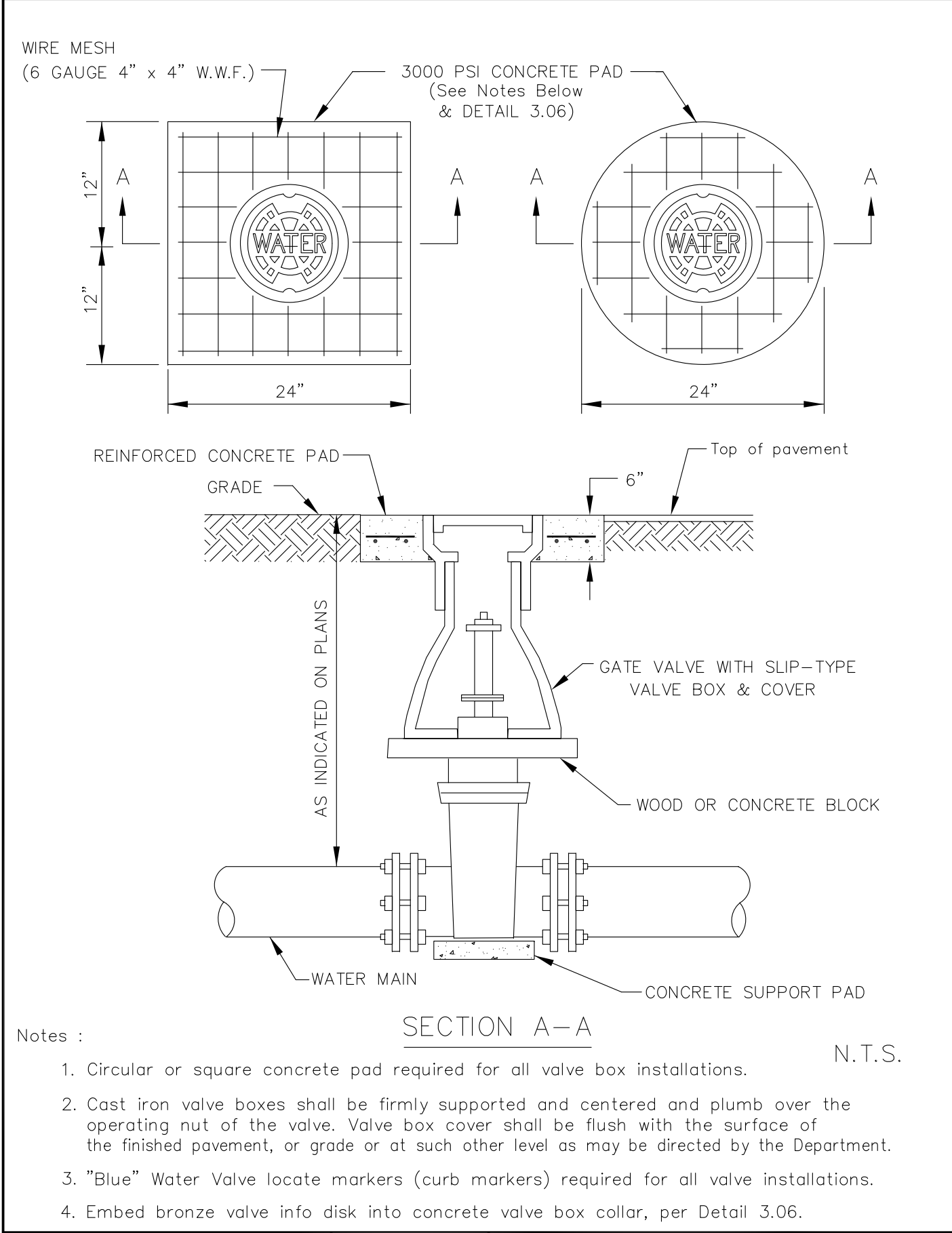


FY17 CIP
CAST IRON MAIN REPLACEMENT

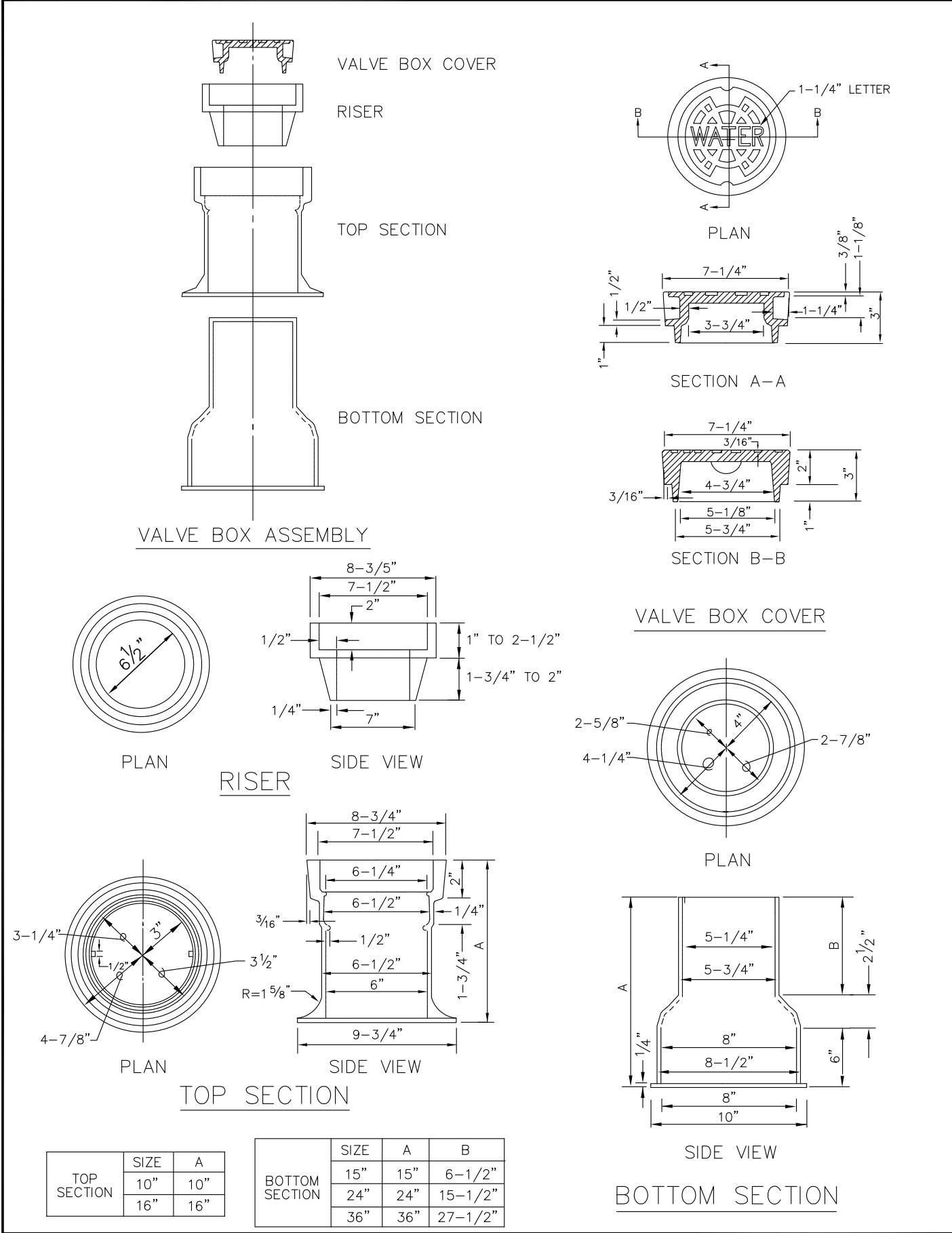
DETAIL SHEET

CULBREATH BAYOU

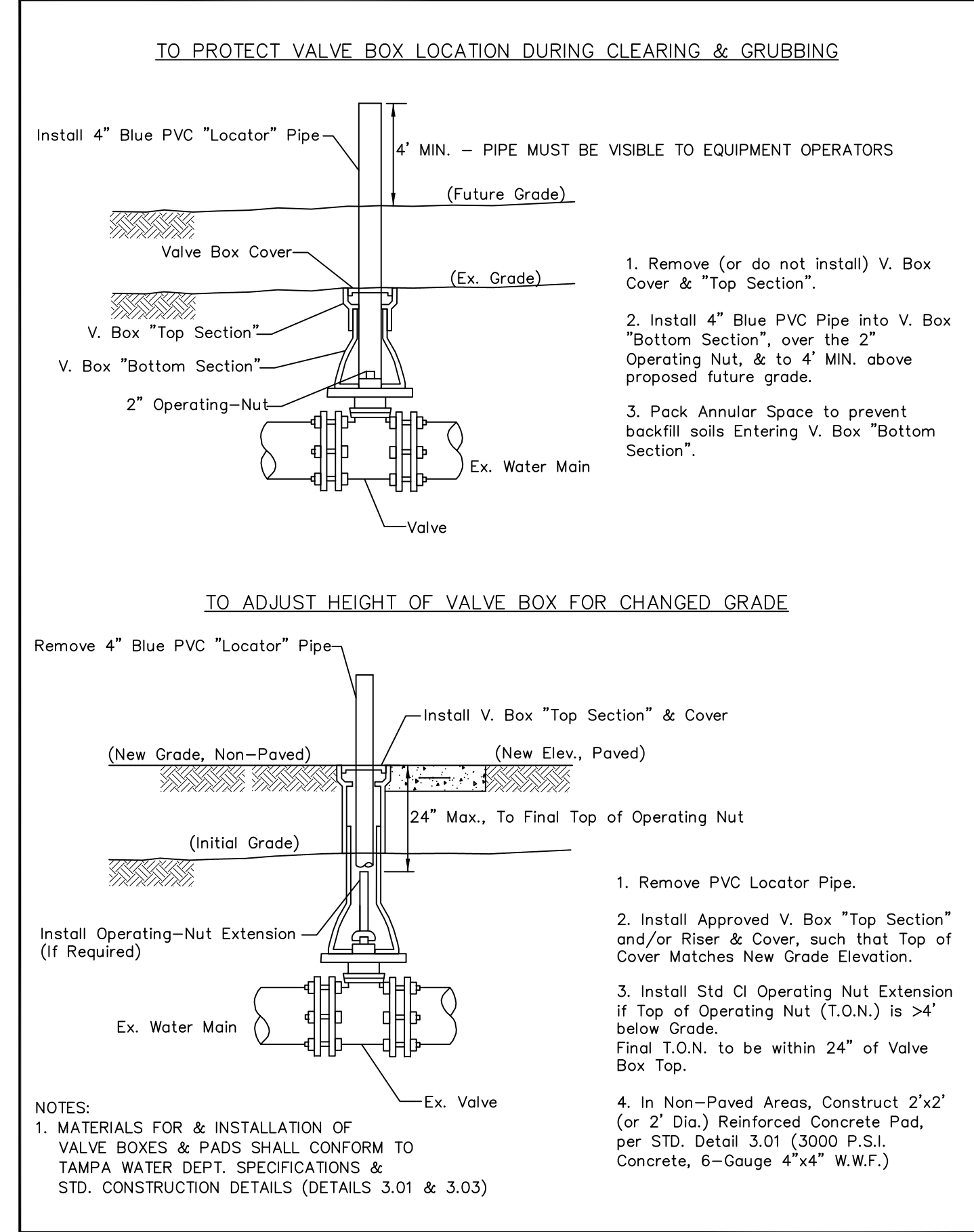
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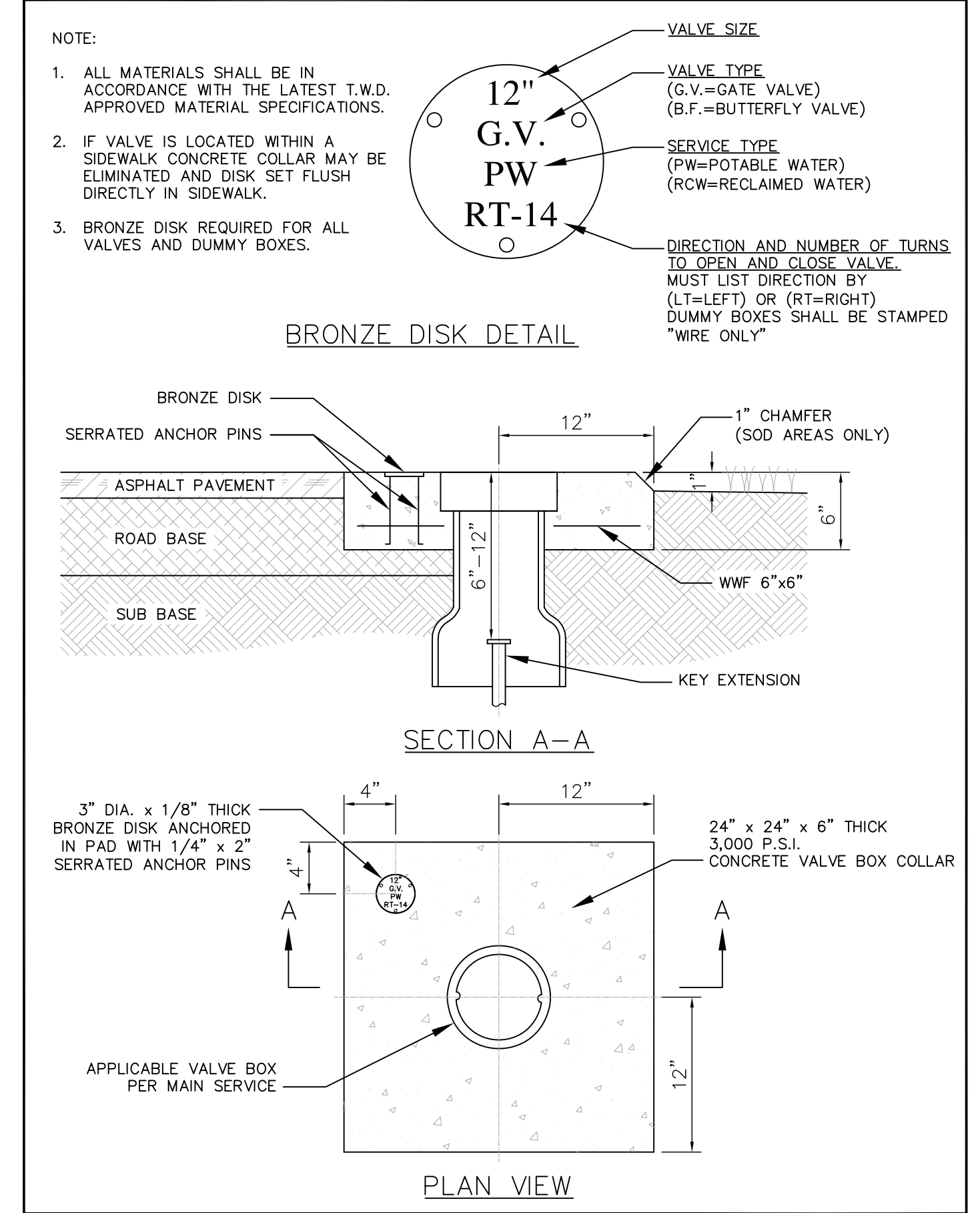
TAMPA WATER DEPARTMENT	APPROVED Sept. 2015	REVISED	VALVE INSTALLATION W/VALVE BOX & PAD FOR DI OR CI PIPE	3.01
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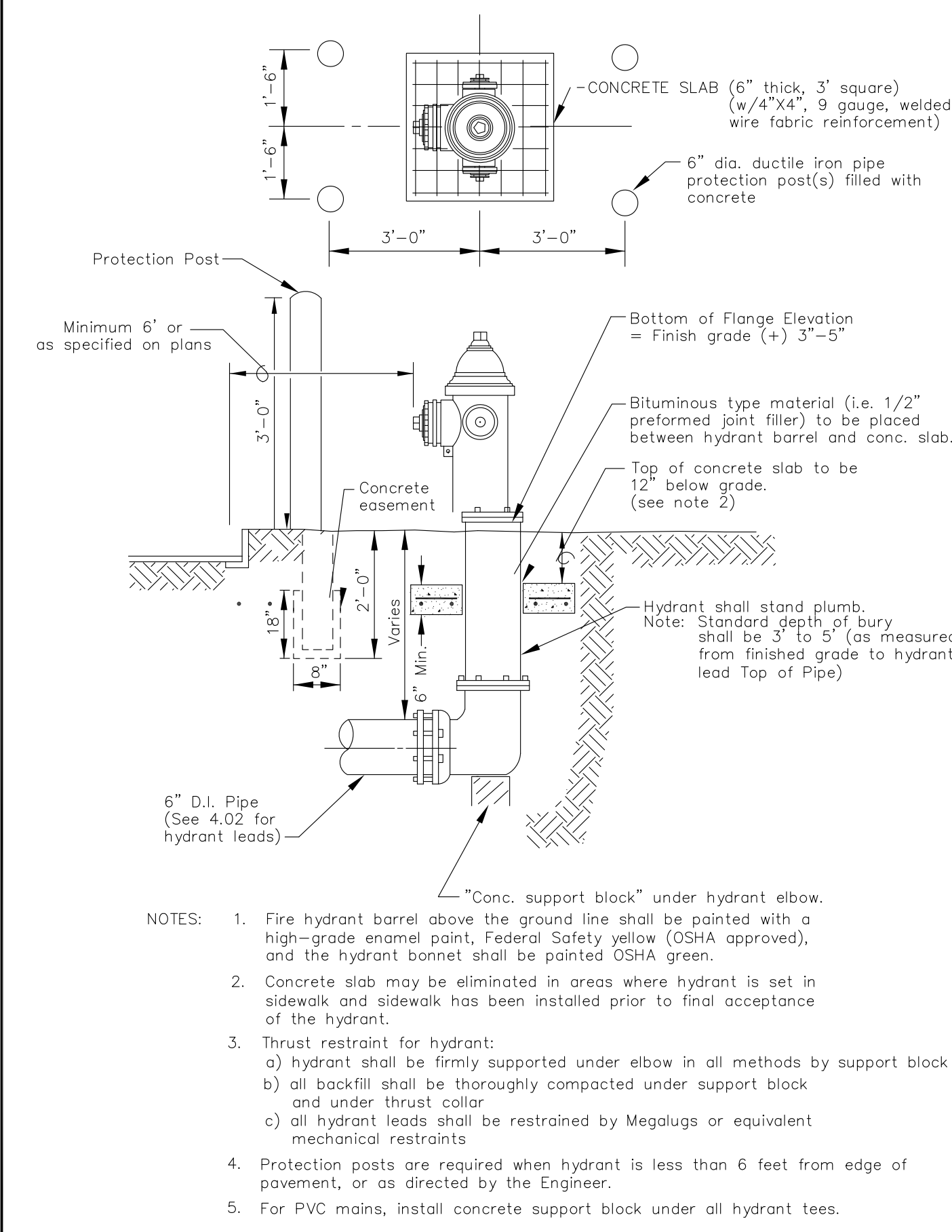
TAMPA WATER DEPARTMENT	APPROVED Sept. 2011	REVISED	VALVE BOX, SLIP-TYPE	3.04
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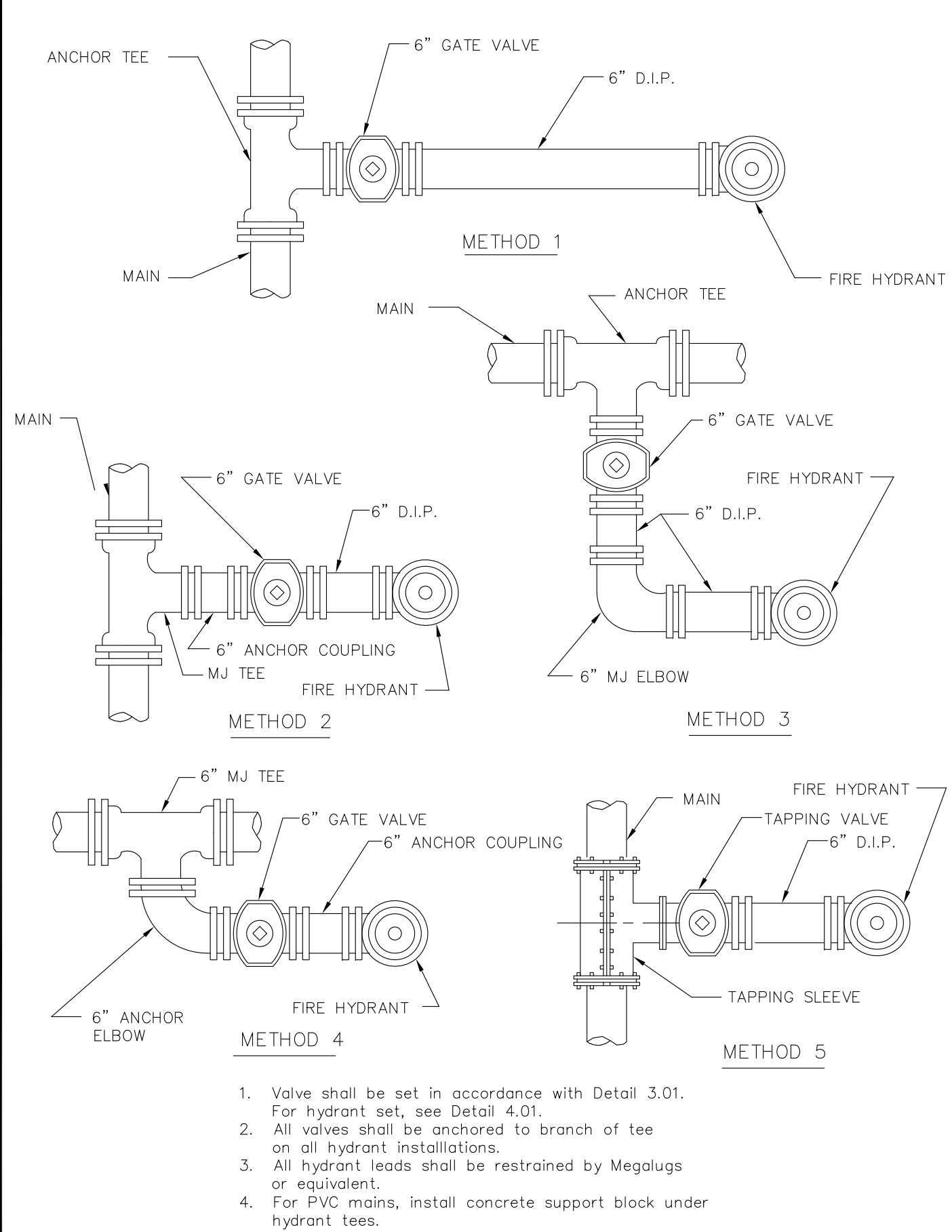
TAMPA WATER DEPARTMENT	APPROVED RNM	REVISED Jan 2017	VALVE BOX (V. BOX) ADJUSTMENTS FOR GRADE CHANGE	3.05
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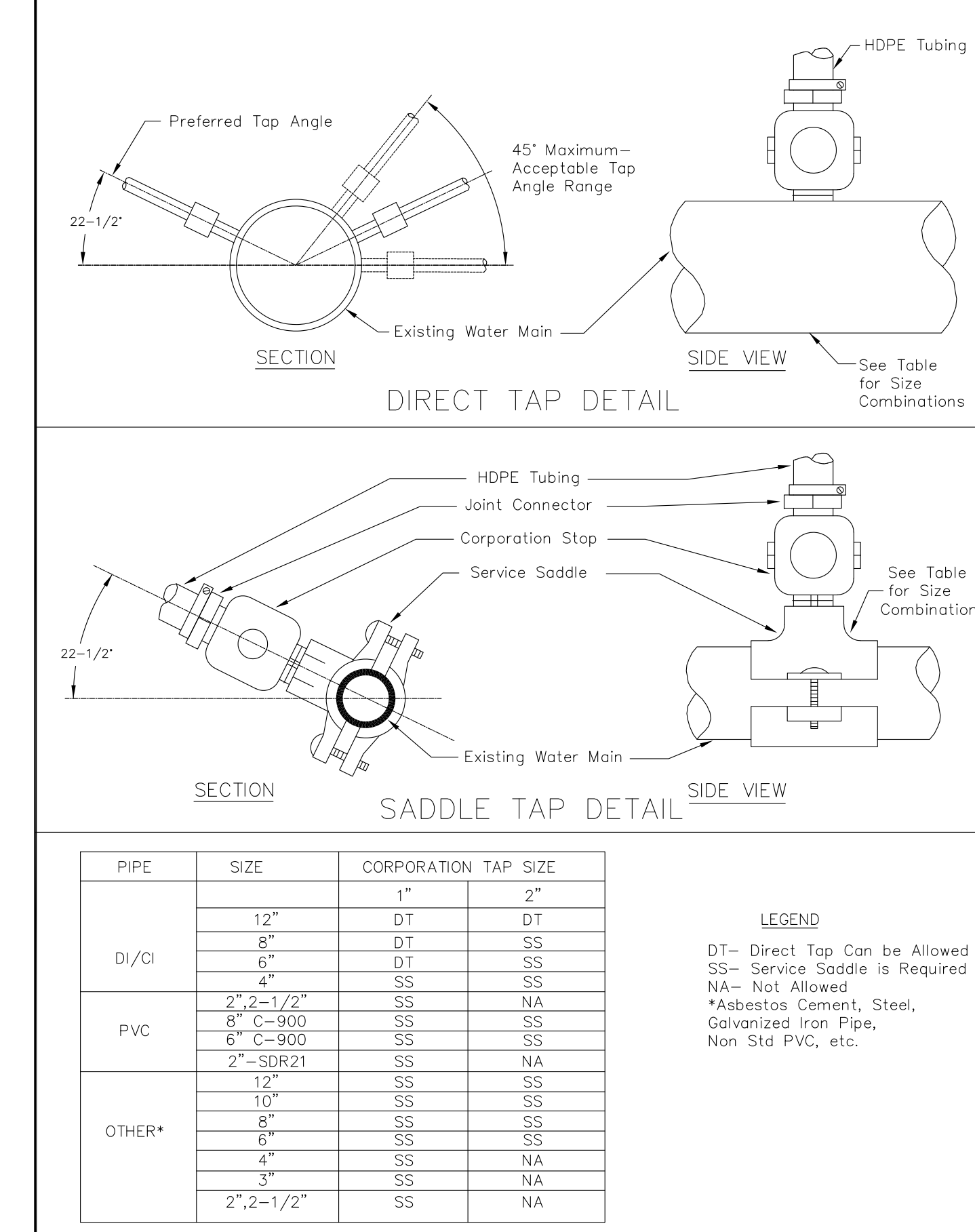
TAMPA WATER DEPARTMENT	APPROVED RNM	REVISED SEPT. 2016	CONCRETE VALVE BOX COLLAR DETAIL	3.06
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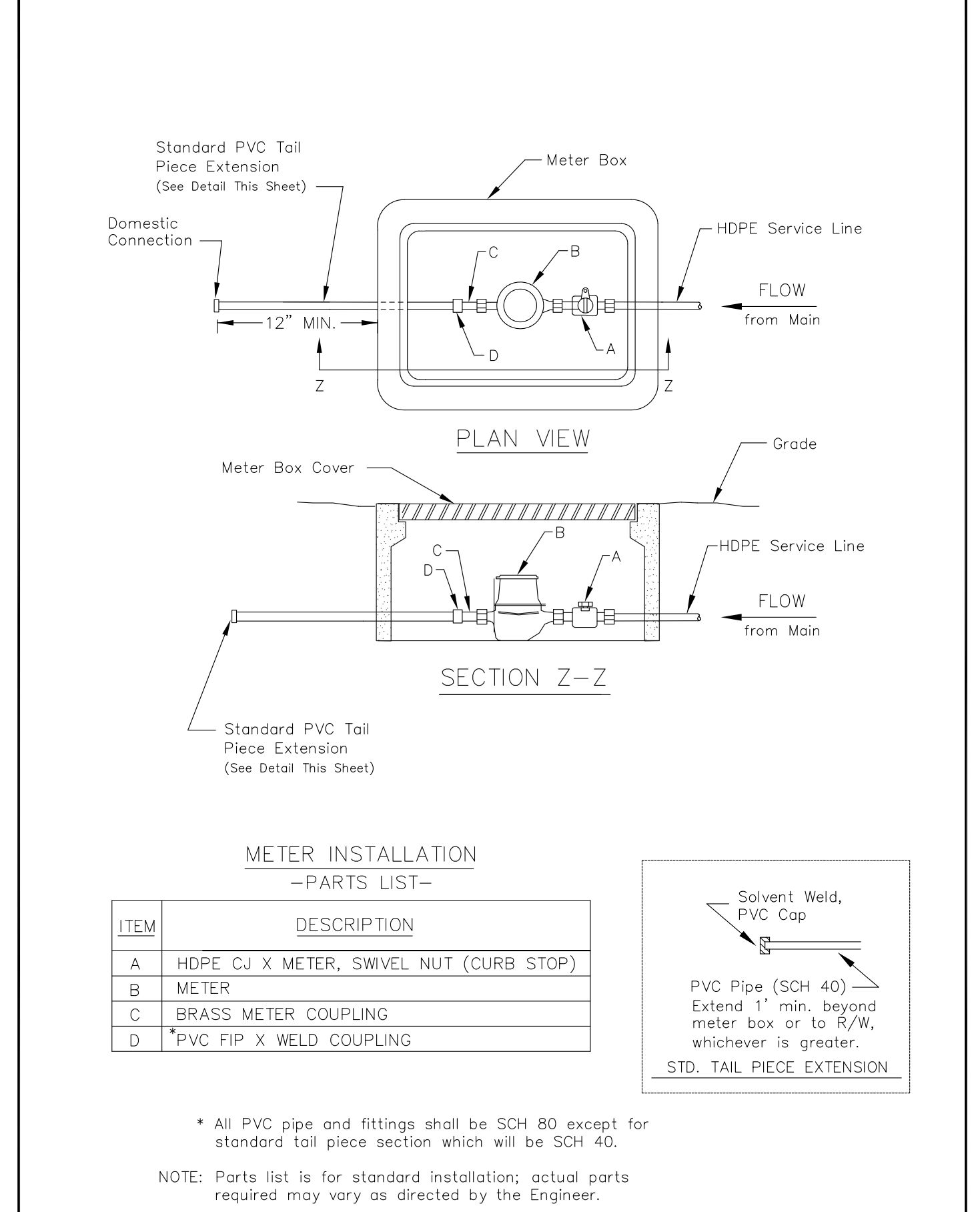
TAMPA WATER DEPARTMENT	APPROVED Sept. 2011	REVISED	FIRE HYDRANT INSTALLATION	4.01
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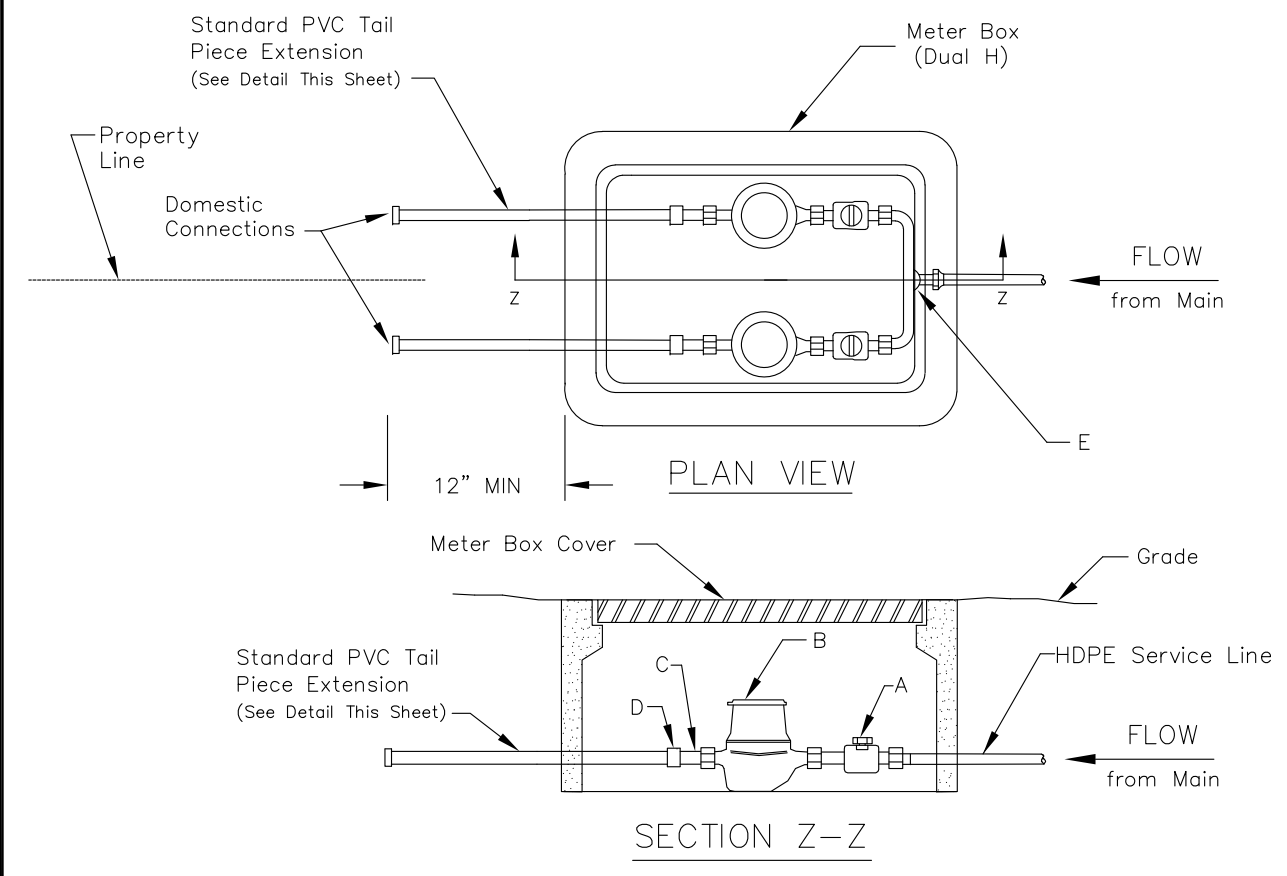
TAMPA WATER DEPARTMENT	APPROVED Sept. 2011	REVISED	FIRE HYDRANT METHODS OF INSTALLATION	4.02
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TAMPA WATER DEPARTMENT	APPROVED Sept. 2011	REVISED	TAPPING DETAIL FOR 3/4", 1", 1-1/2" & 2" W/DI, CI, OR PVC PIPE	5.01
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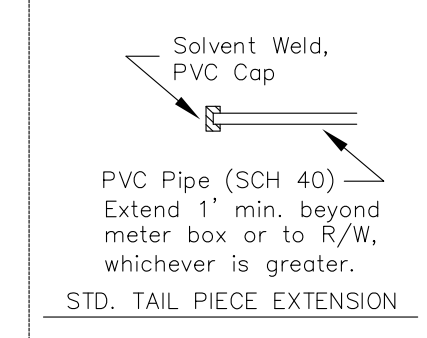


TAMPA WATER DEPARTMENT	APPROVED Sept. 2011	REVISED	SINGLE METER SET DETAIL 3/4", 1", 1-1/2", 2"	5.02
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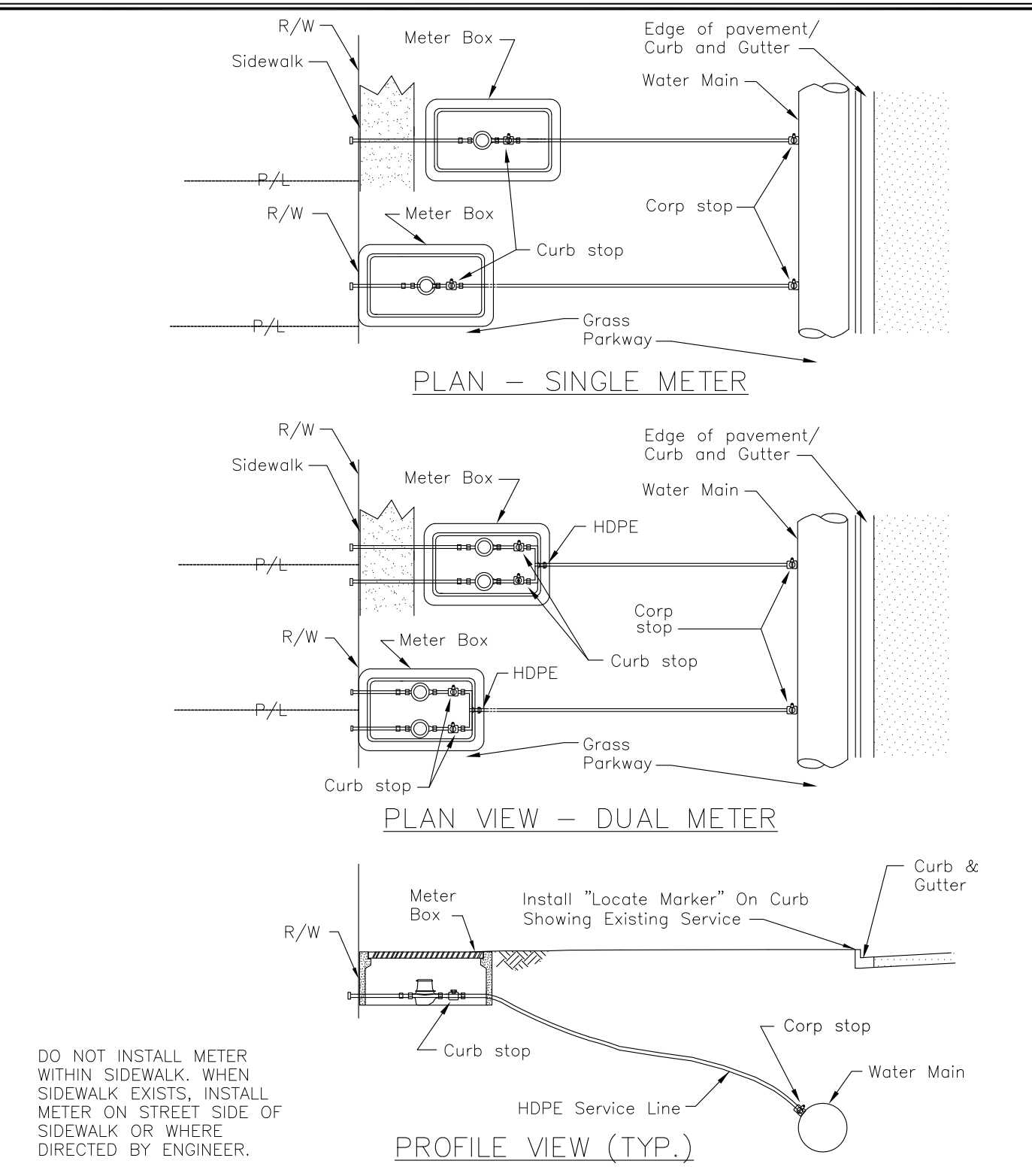
METER INSTALLATION - PARTS LIST -

ITEM	DESCRIPTION
A	FIP CURB X METER SWIVEL NUT (CURB STOP)
B	METER
C	METER COUPLING
D	*PVC FIP X WELD COUPLING
E	MIP X HDPE CJ BRANCH COUPLING



* All PVC pipe and fittings shall be SCH 80 except for standard tail piece section which will be SCH 40.
NOTE: Parts list is for standard installation; actual parts required may vary as directed by the Engineer.

TAMPA WATER DEPARTMENT	APPROVED Sept. 2011	REVISED	DUAL METER SET DETAIL 3/4" & 1"	5.03
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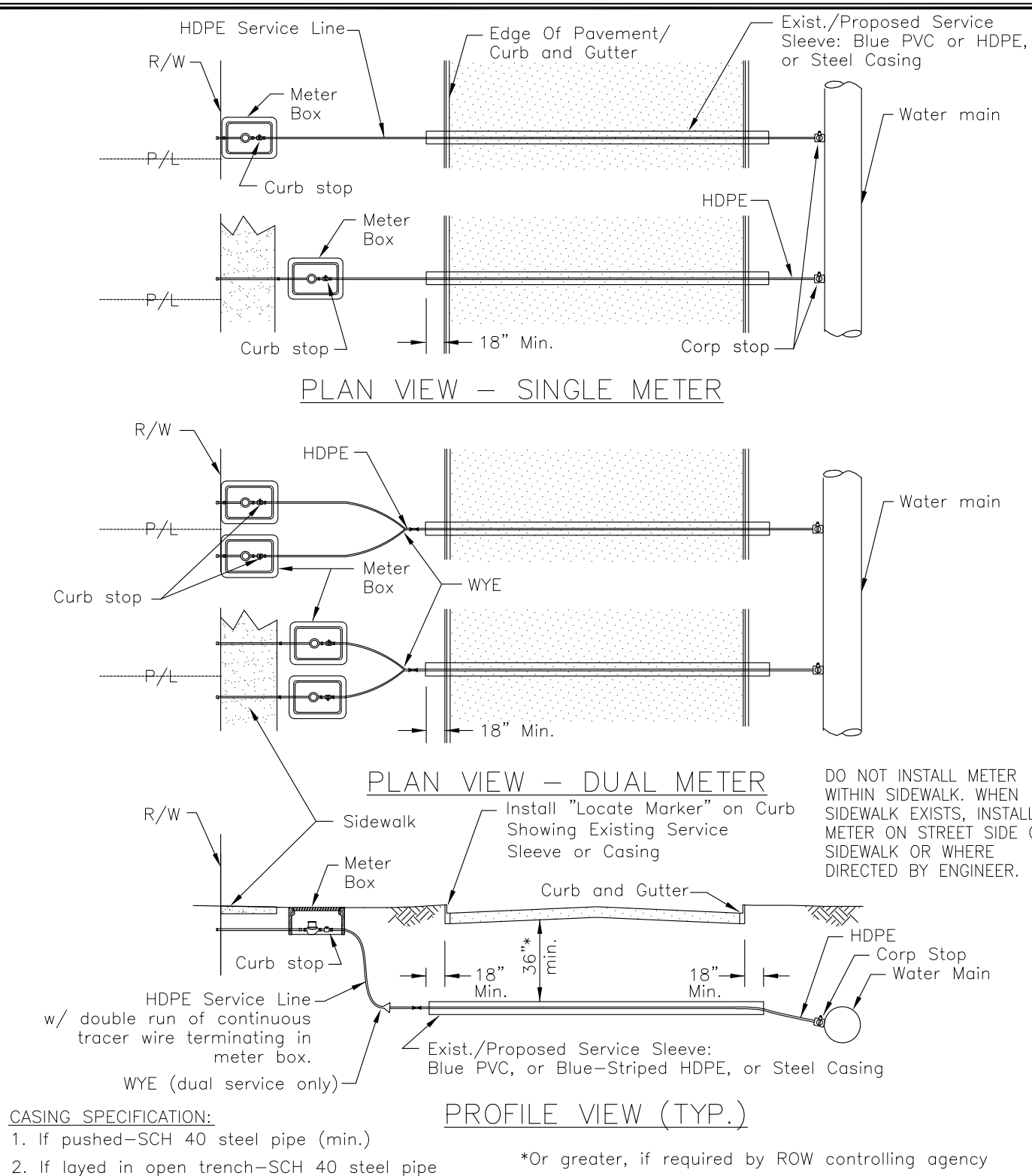


* Line size applicable for DDCVA

SINGLE METER SIZE (inches)	SERVICE LINE SIZE (inches) (0'-15')	DUAL METER SIZE (inches)	SERVICE LINE SIZE (inches) (0'-15')
3/4	1	3/4	2
1	1	1-1/2	2
1-1/2	2	2	n/a
2*	2	2	n/a

(Feet refer to distance from water main to meter)

TAMPA WATER DEPARTMENT	APPROVED Sept. 2011	REVISED	SINGLE & DUAL METERED SERVICE - SHORT SIDE 3/4", 1", 1-1/2" AND 2"	5.04
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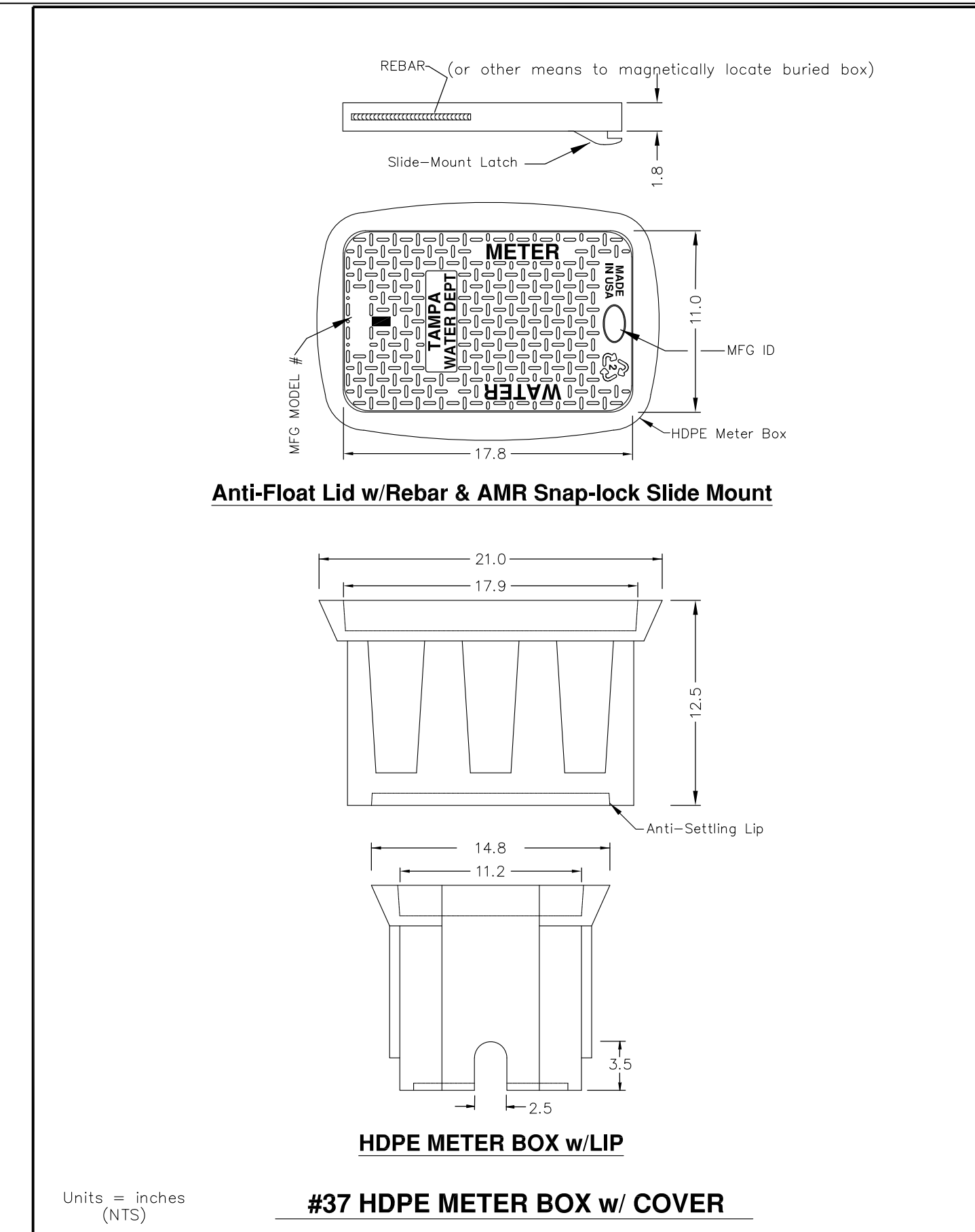


CASING SPECIFICATION:
1. If pushed-SCH 40 steel pipe (min.)
2. If layed in open trench-SCH 40 steel pipe or SCH 80 PVC solvent weld pipe.
*Or greater, if required by ROW controlling agency
**Line sizes applicable for 2" DDCV

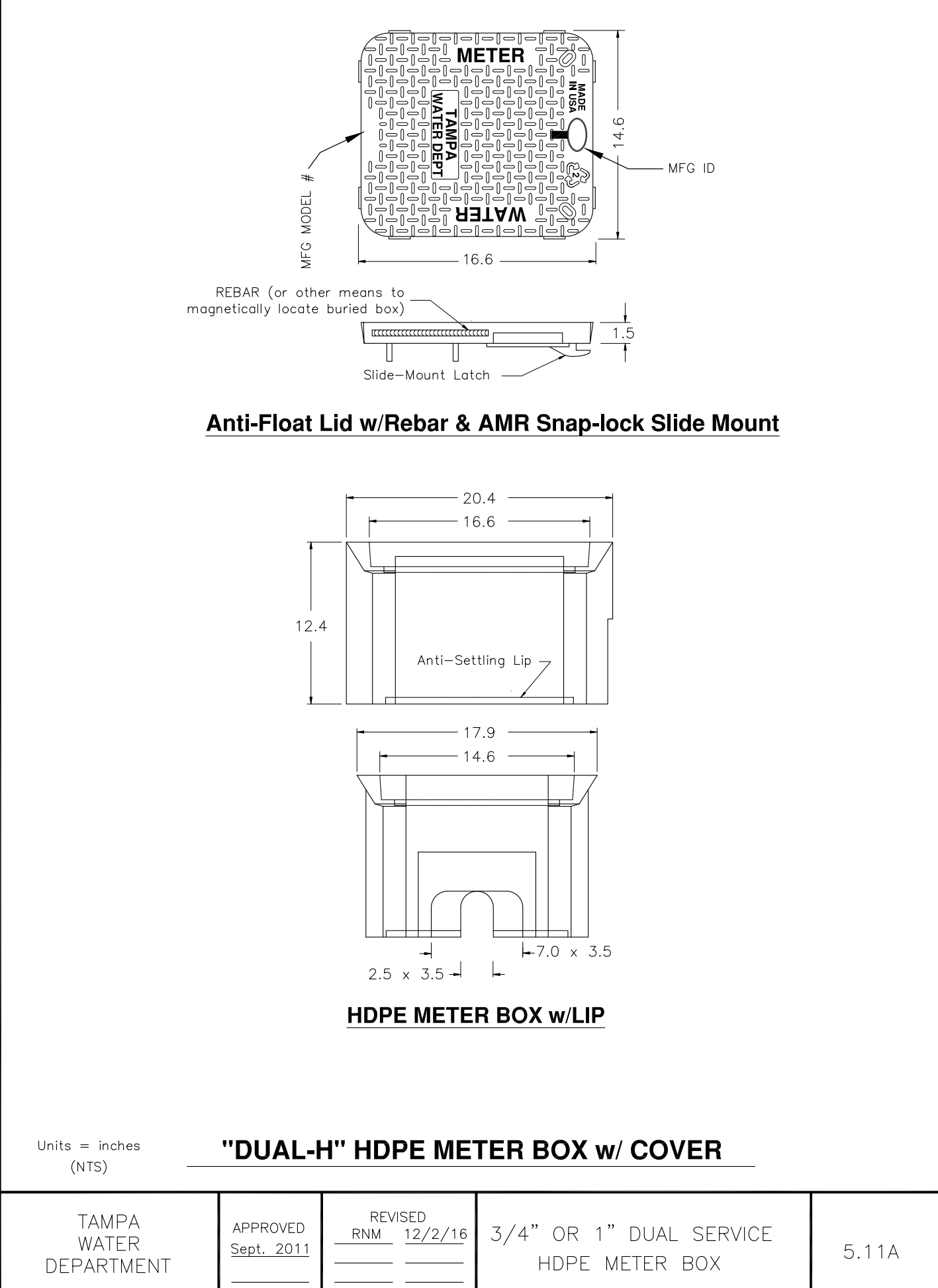
SINGLE METER SIZE (inches)	SERVICE LINE SIZE (inches) (15'-80')	CASING SIZE (inches) (80'-150')	DUAL METER SIZE (inches)	SERVICE LINE SIZE (inches) (15'-80')	CASING SIZE (inches) (80'-150')
3/4	1	2	3/4	2	4
1	2	4	1	2	4
1-1/2	2	4	1-1/2	n/a	n/a
2**	4" D.I.P.	4" D.I.P.	2	n/a	n/a

(Feet refer to distance from water main to meter)

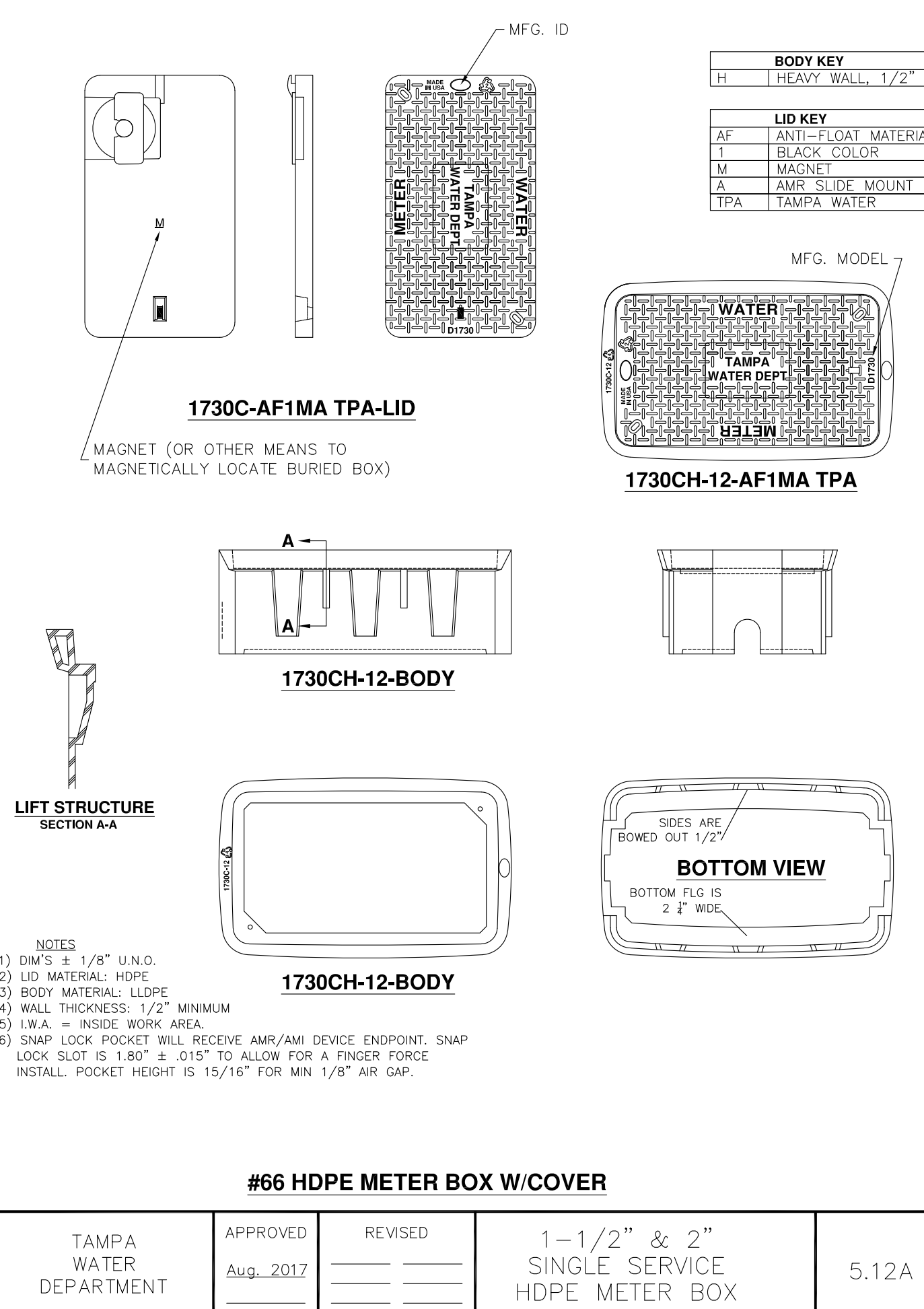
TAMPA WATER DEPARTMENT	APPROVED Sept. 2011	REVISED	SINGLE & DUAL METERED SERVICE - LONG SIDE 3/4", 1", 1-1/2" AND 2"	5.05
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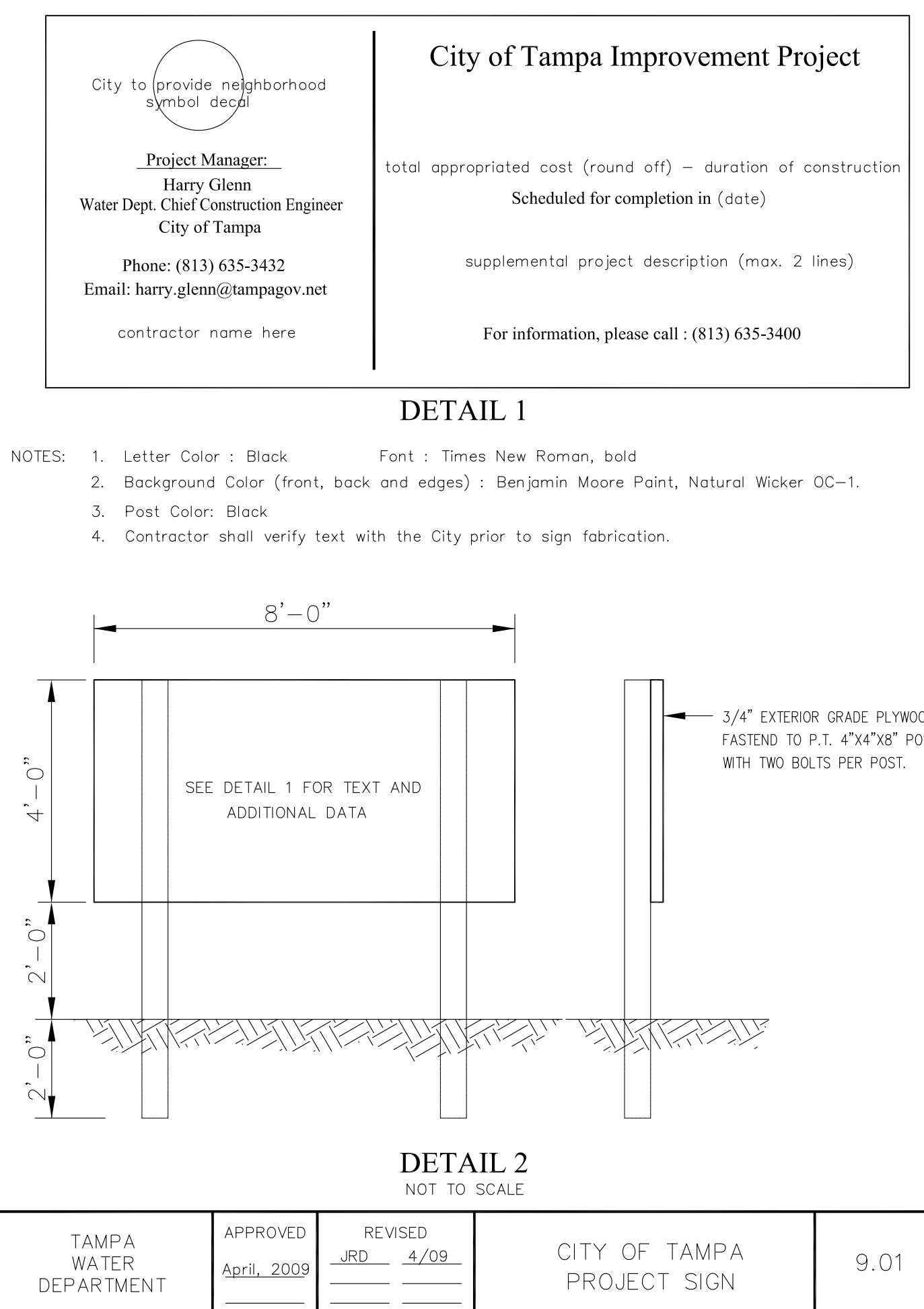
TAMPA WATER DEPARTMENT	APPROVED Sept. 2011	REVISED RNM 12/2/16	3/4" OR 1" SINGLE SERVICE HDPE METER BOX	5.10A
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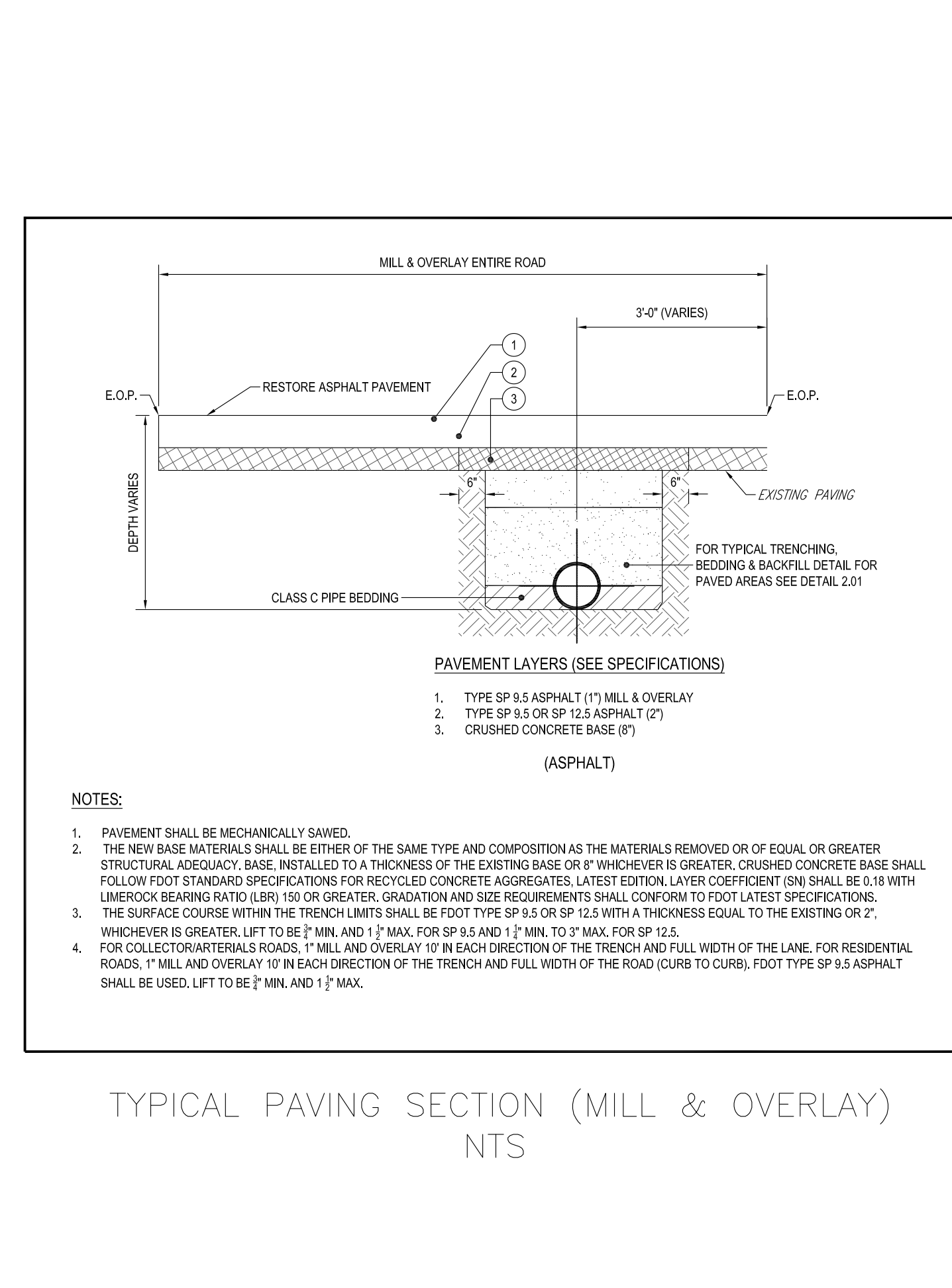
TAMPA WATER DEPARTMENT	APPROVED Sept. 2011	REVISED RNM 12/2/16	3/4" OR 1" DUAL SERVICE HDPE METER BOX	5.11A
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TAMPA WATER DEPARTMENT	APPROVED Aug. 2017	REVISED	1-1/2" & 2" SINGLE SERVICE HDPE METER BOX	5.12A
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TAMPA WATER DEPARTMENT	APPROVED April, 2009	REVISED JRD 4/09	CITY OF TAMPA PROJECT SIGN	9.01
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TAMPA WATER DEPARTMENT	APPROVED Sept. 2011	REVISED RNM 12/2/16	3/4" OR 1" SINGLE SERVICE HDPE METER BOX	5.10A
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FY17 CIP
CAST IRON MAIN REPLACEMENT

DETAIL SHEET

CULBREATH BAYOU

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