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OWNER:
WOODLAND MANAGEMENT
 51 WOODLAND DRIVE, SUITE 0
 BRISTOL, VT 05443
 802-999-7757

PROJECT:
WATER MAIN EXTENSION

ISSUED FOR:
PERMITTING
ISSUED DATE:
 2018-01-19

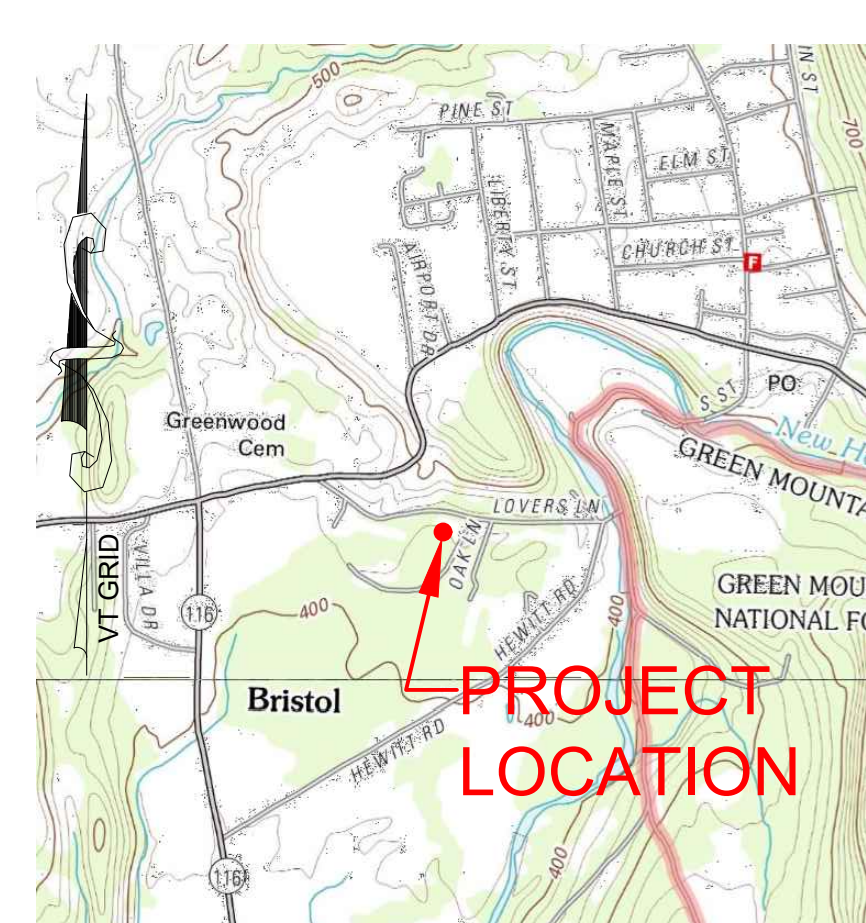
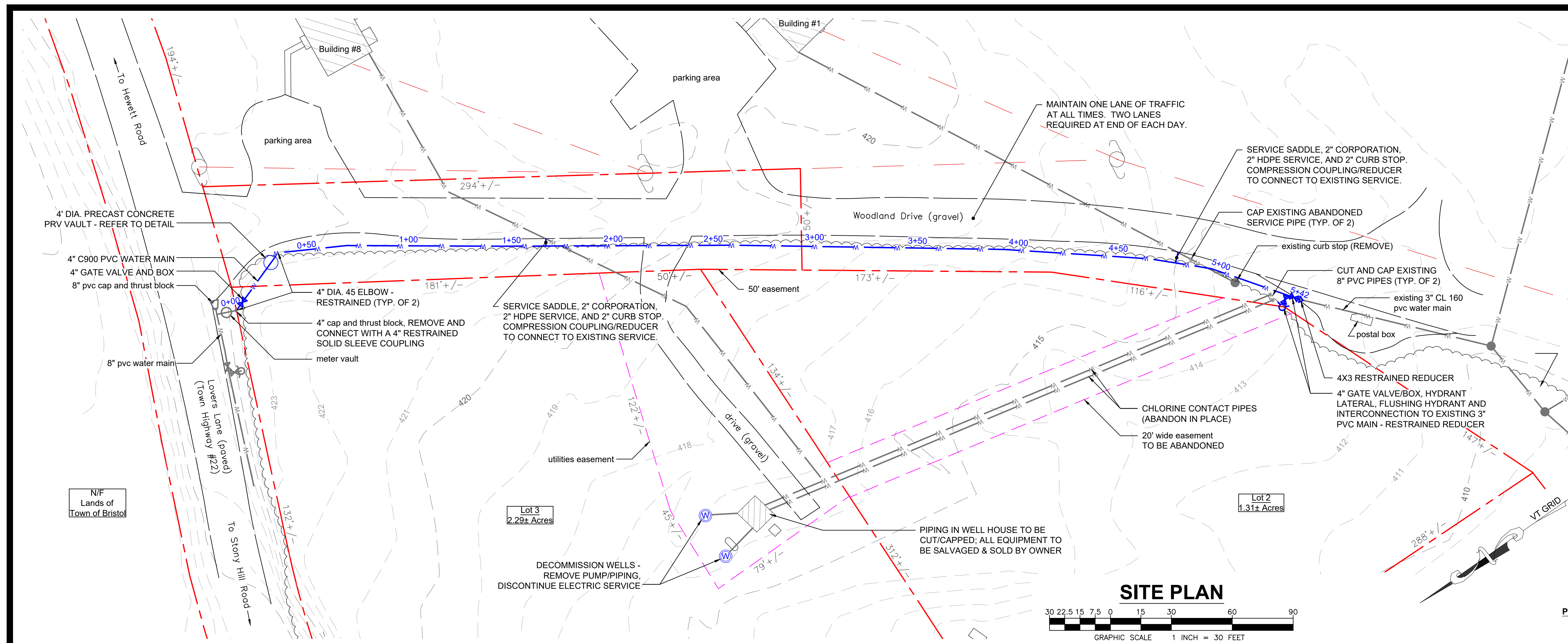
PROJ. #: 026-01

REVISIONS

#	BY:	DATE:
1	TB	2018-08-13

PROPOSED SITE PLAN & PROFILE

DRAWING NO:
C-001

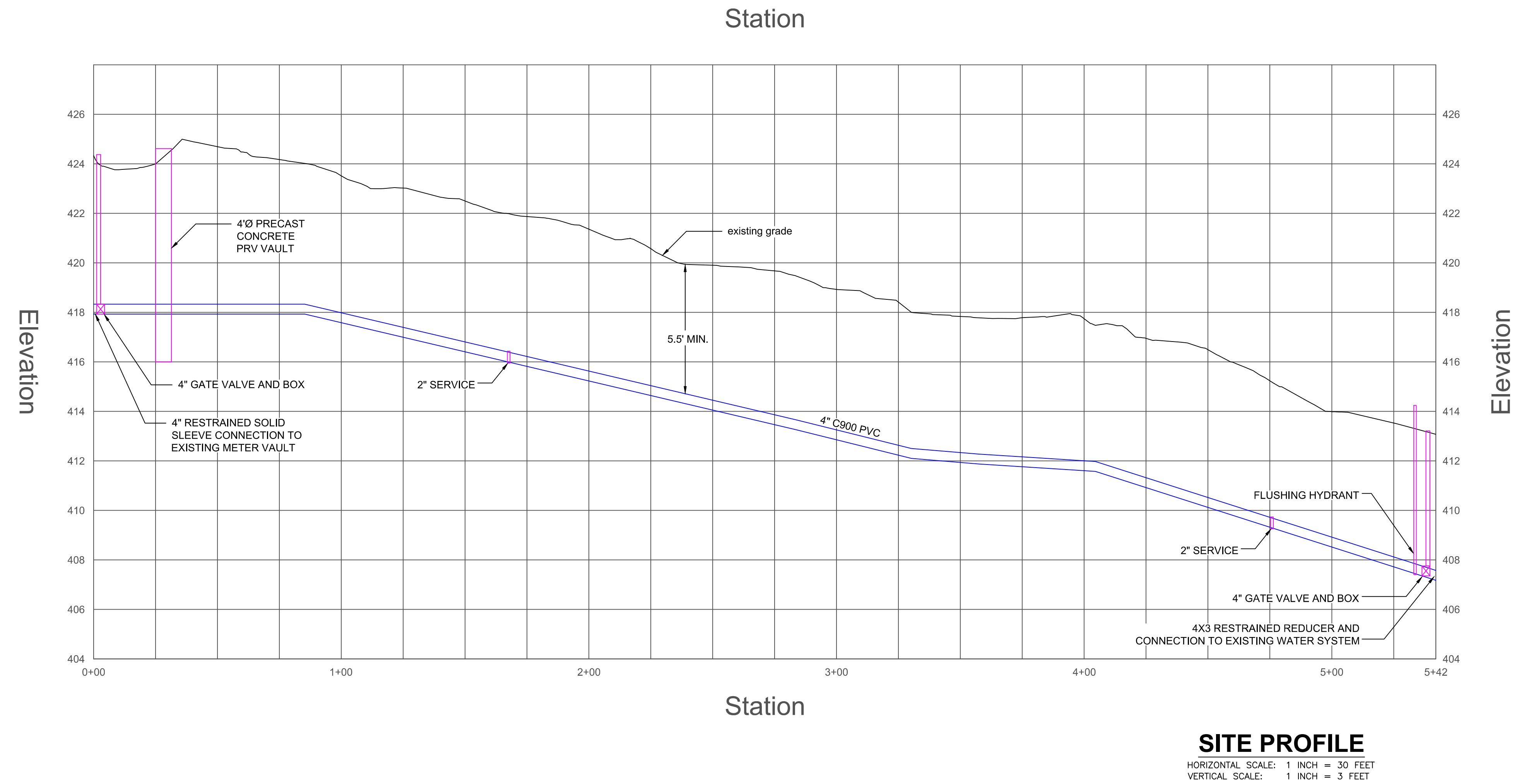


Project Location Map
 Not to Scale

- PROJECT NOTES**
- THESE PLANS ARE BASED ON A TOPOGRAPHIC SURVEY CONDUCTED BY BARNARD & GERVAIS, LLC WITH A NIKON NPL 522 THREE SECOND IN SEPTEMBER 2016.
 - SITE ELEVATIONS WERE ESTABLISHED USING A SURVEY GRADE GPS UNIT AND ARE BASED ON NAD83 DATUM BASED ON CORRECTIONS FROM VTCORS STATION ID VTMI.
 - THIS IS NOT A BOUNDARY SURVEY AND DOES NOT MEET THE LEGAL REQUIREMENTS OF A BOUNDARY SURVEY AS DESCRIBED IN 27 V.S.A. AND 1403.
 - FOR CLARITY, TEXT NOTING EXISTING ITEMS IS LOWER CASE, AND TEXT NOTING PROPOSED ITEMS IS UPPER CASE.
 - THE PROPERTY BOUNDARIES ARE BASED ON A PARTIAL BOUNDARY SURVEY COMPLETED BY BARNARD & GERVAIS, LLC IN AUGUST 2016 AND A LAROSE SURVEYS ALTA SURVEY PLAT.
 - THE LOCATIONS OF THE EXISTING WATER SERVICE PIPES ARE SHOWN BASED ON THE PHELPS ENGINEERING, INC. ORIGINAL SITE PLAN DRAWING DATED NOVEMBER 1979 AND INFORMATION PROVIDED BY THE PROPERTY OWNER. THE LOCATIONS OF THE EXISTING WATER SERVICE PIPES ARE CONSIDERED APPROXIMATE ONLY AND WERE NOT FIELD VERIFIED.
 - UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND HAVE NOT BEEN FIELD VERIFIED.
 - THE CONTRACTOR SHALL ADHERE TO VERMONT OCCUPATIONAL HEALTH AND SAFETY AGENCY (VOSHA) GUIDELINES FOR EXCAVATING AND TRENCH EXCAVATION WORK.
 - TECHNICAL SPECIFICATIONS ACCOMPANY THIS PLAN AND ARE ESSENTIAL FOR CONSTRUCTION.
 - ALL WATER SYSTEM IMPROVEMENTS SHALL ADHERE TO APPLICABLE STANDARDS, INCLUDING:
 - A. AMERICAN WATER WORKS ASSOCIATION (AWWA)
 - B. NATIONAL SANITATION FOUNDATION (NSF)
 - C. VERMONT LOW-LEAD (ACT 193) REQUIREMENTS

LEGEND

- BOUNDARY LINE/ R.O.W. (EXISTING)
- - - SIDELINE OF EASEMENT
- EDGE OF ROAD/DRIVE (PAVED)
- EDGE OF ROAD/DRIVE (GRAVEL)
- 100 — 1-FOOT GROUND SURFACE CONTOUR
- W — WATER MAIN (EXISTING)
- W — WATER MAIN (PROPOSED)
- UTILITY POLE/ OVERHEAD WIRES
- ⊙ DRILLED WELL
- ⊕ FIRE HYDRANT
- ⊕ GATE VALVE



SITE PROFILE
 HORIZONTAL SCALE: 1 INCH = 30 FEET
 VERTICAL SCALE: 1 INCH = 3 FEET



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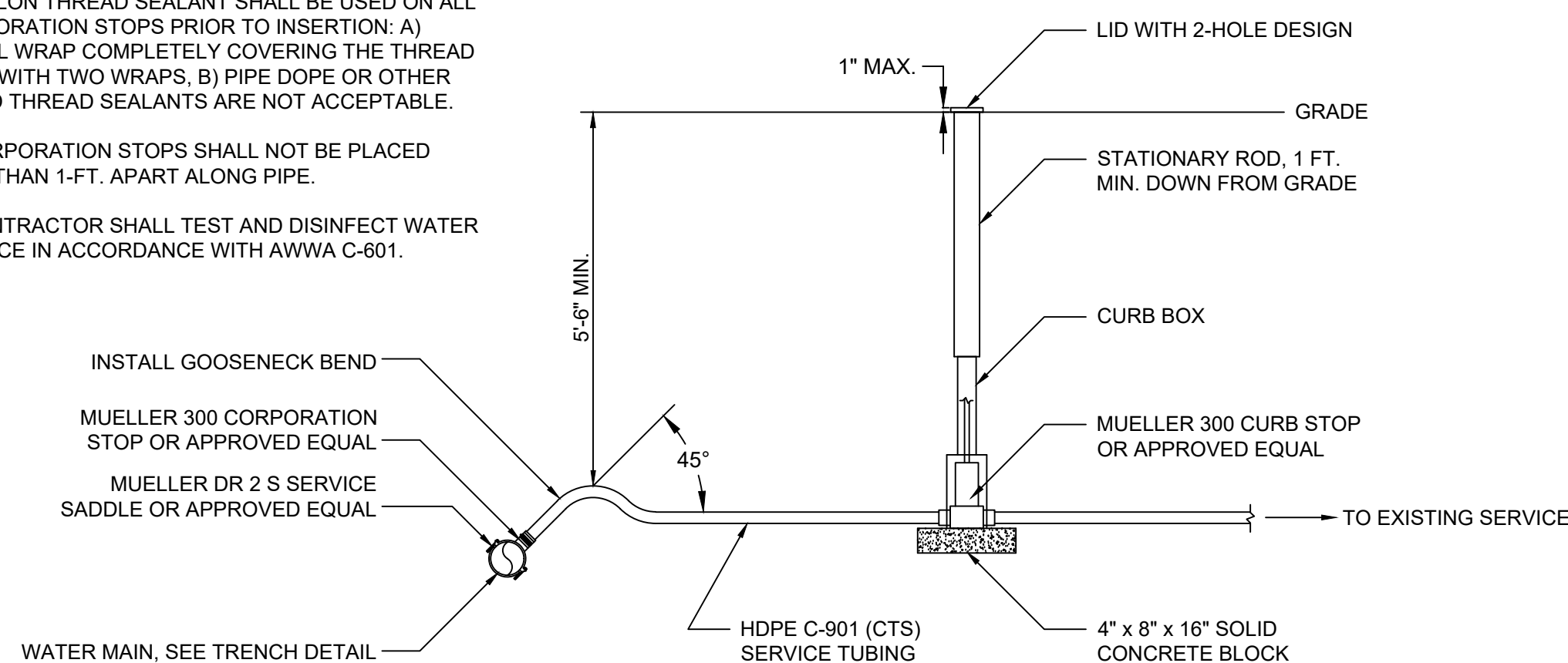
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PROPOSED DETAILS

DRAWING NO:

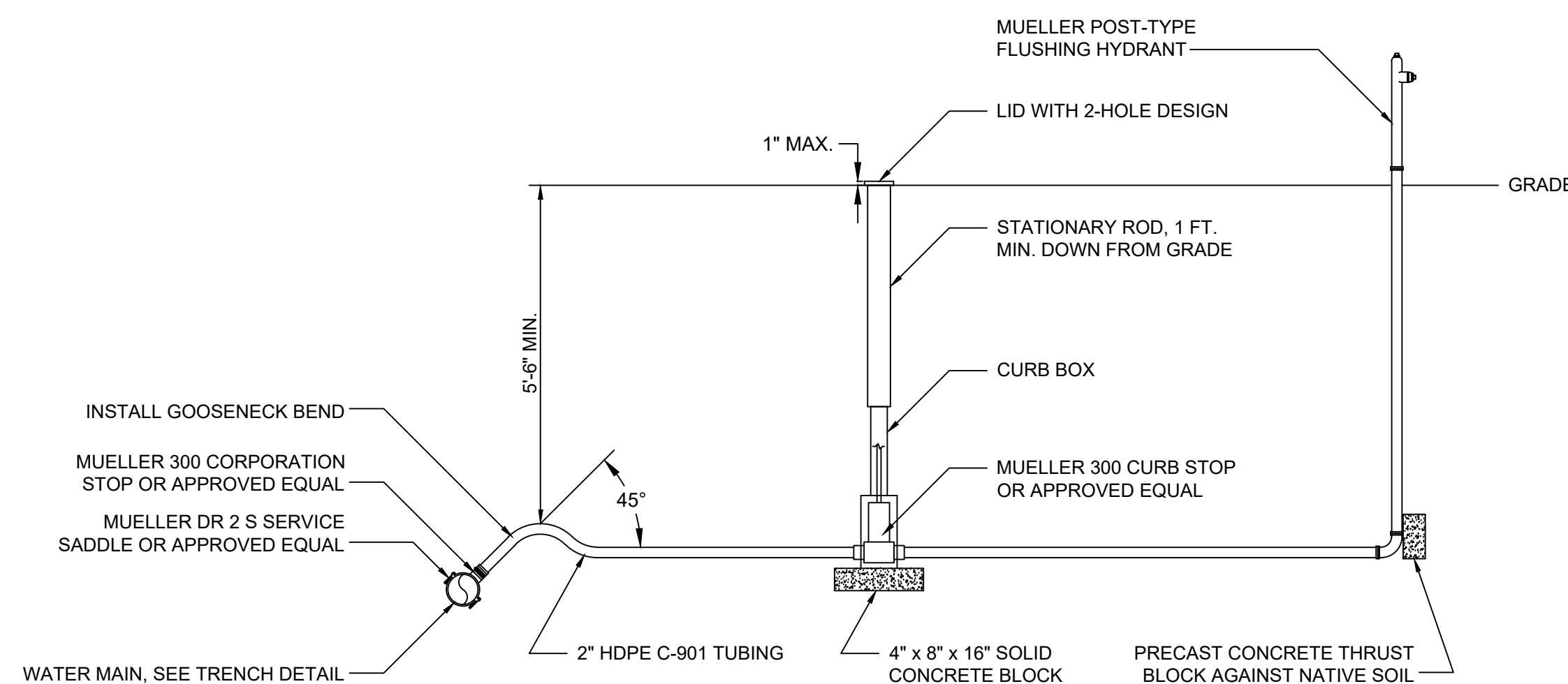
C-002

- NOTES:**
1. TEFLON THREAD SEALANT SHALL BE USED ON ALL CORPORATION STOPS PRIOR TO INSERTION. A) SPIRAL WRAP COMPLETELY COVERING THE THREAD AREA WITH TWO WRAPS. B) PIPE DOPE OR OTHER LIQUID THREAD SEALANTS ARE NOT ACCEPTABLE.
 2. CORPORATION STOPS SHALL NOT BE PLACED LESS THAN 1-FT. APART ALONG PIPE.
 3. CONTRACTOR SHALL TEST AND DISINFECT WATER SERVICE IN ACCORDANCE WITH AWWA C-601.



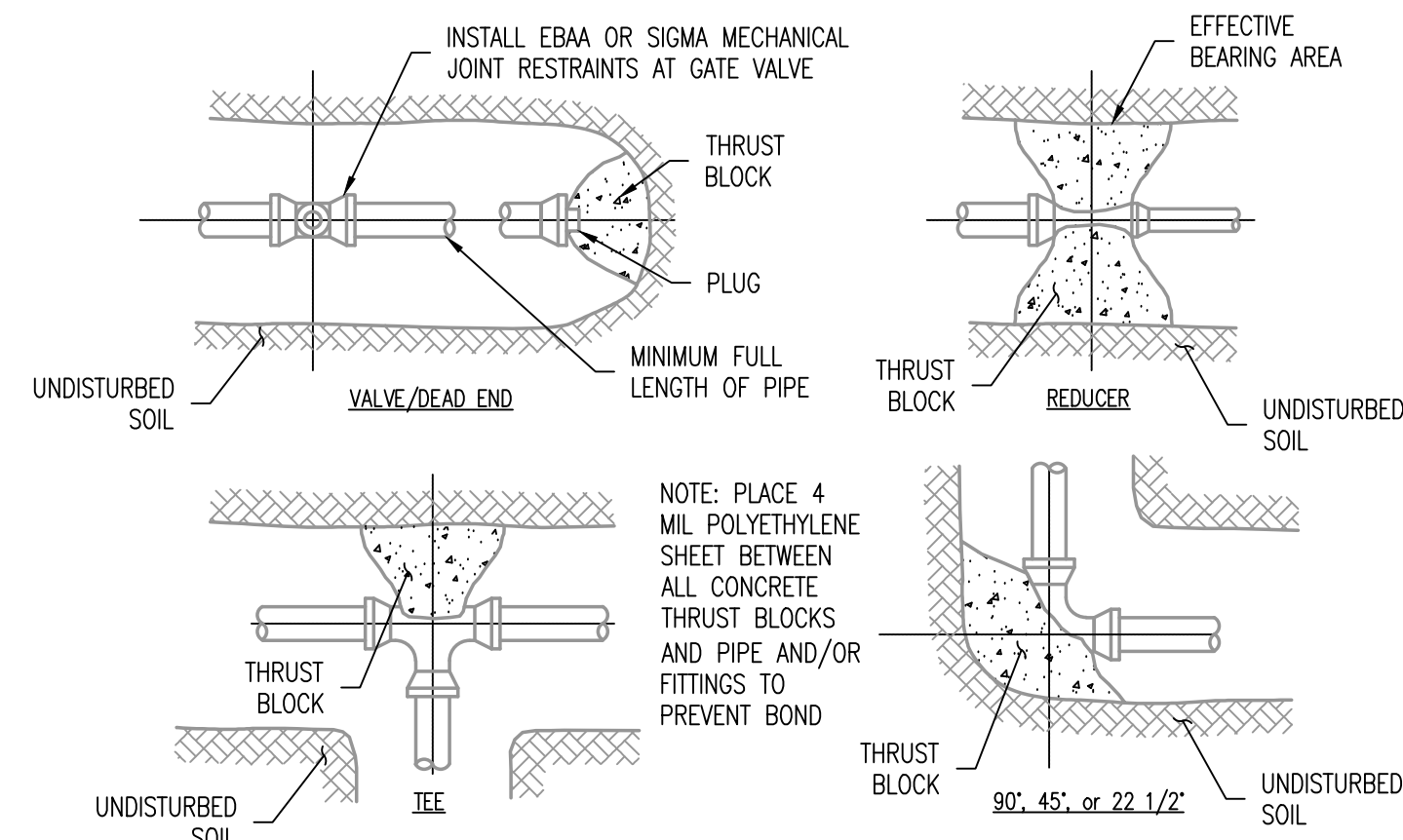
WATER SERVICE DETAIL

NOT TO SCALE



FLUSHING HYDRANT DETAIL

NOT TO SCALE



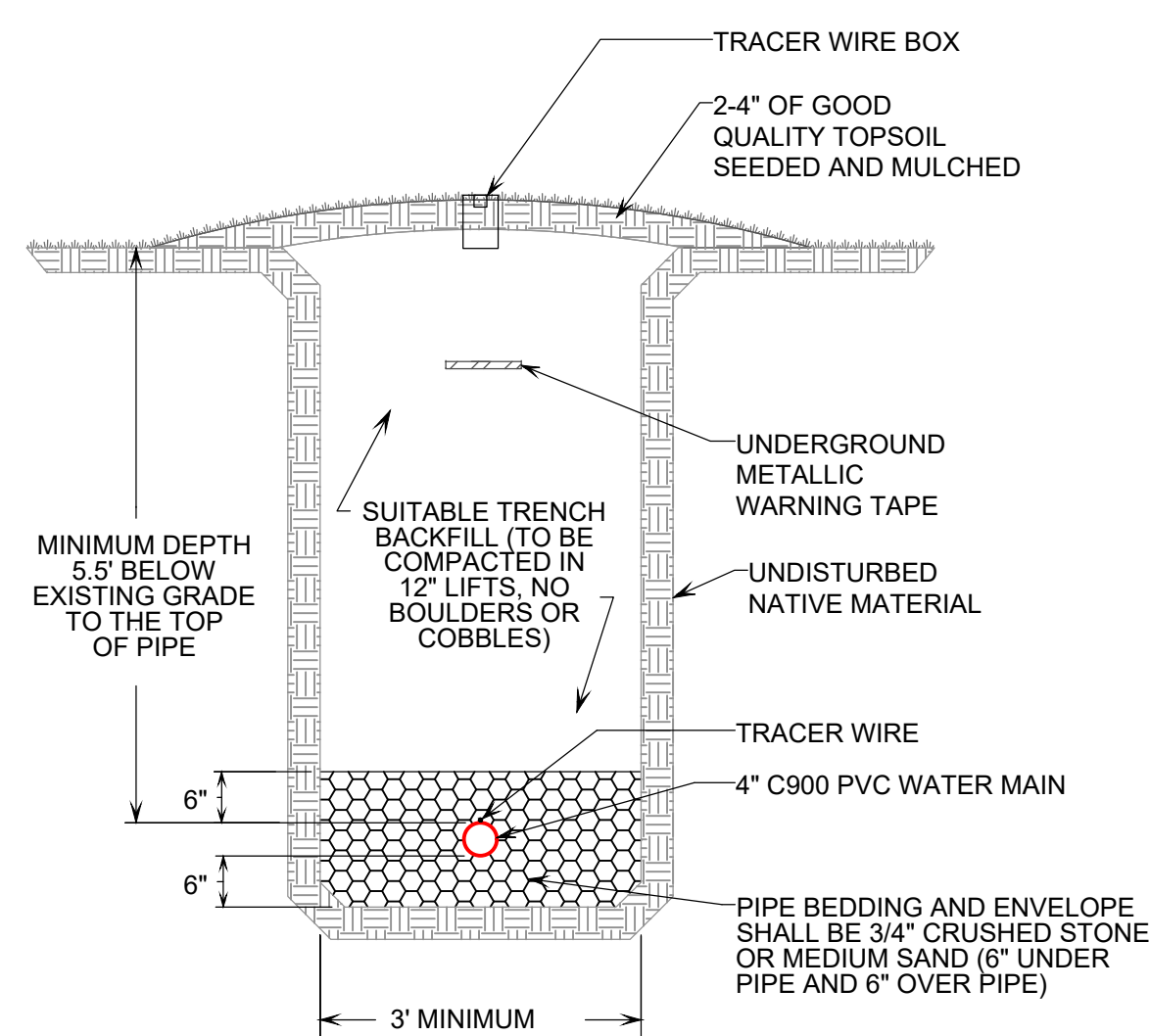
MINIMUM AREA OF BEARING SURFACE OF CONCRETE THRUST BLOCKS IN SQUARE FEET

ENDS & TEES	3"			4"			6"			8"			12"			SOIL CONDITION	SAFE BEARING LOAD (PSF)				
	90° ELB.	45° ELB.	225° ELB.	90° ELB.	45° ELB.	225° ELB.	90° ELB.	45° ELB.	225° ELB.	90° ELB.	45° ELB.	225° ELB.	90° ELB.	45° ELB.	225° ELB.						
0.5	0.5	0.5	0.5	1.0	0.5	0.5	1.0	1.5	1.0	0.5	2.0	2.5	1.5	1.0	4.0	5.5	3.0	1.5	SOUND SHALE	10,000	
1.0	1.0	0.5	1.5	2.0	1.0	0.5	3.0	4.0	2.0	1.0	4.5	6.5	3.5	2.0	10.0	14.0	7.5	2.0	CEMENTED GRAVEL AND SAND	4,000	
1.0	1.5	1.0	0.5	2.0	2.5	1.5	1.0	3.5	3.0	1.5	6.0	8.5	5.0	2.5	13.0	18.5	10.0	5.0	COARSE AND FINE CONCRETE SAND	3,000	
1.5	2.5	1.5	1.0	2.5	3.5	2.0	1.0	5.5	7.5	4.0	2.0	9.0	13.0	7.0	3.5	20.0	27.5	15.0	8.0	MEDIUM CLAY (CAN BE SPREAD)	2,000
3.0	4.5	2.5	1.5	5.0	7.0	4.0	2.0	10.5	15.0	8.0	4.0	18.0	25.0	14.0	7.0	39.0	55.0	30.0	15.0	CLAY	1,000

MAXIMUM WATER PRESSURE = 300 PSI NOTE: REDUCER BEARING AREA = 45° BEND OF LARGER PIPE

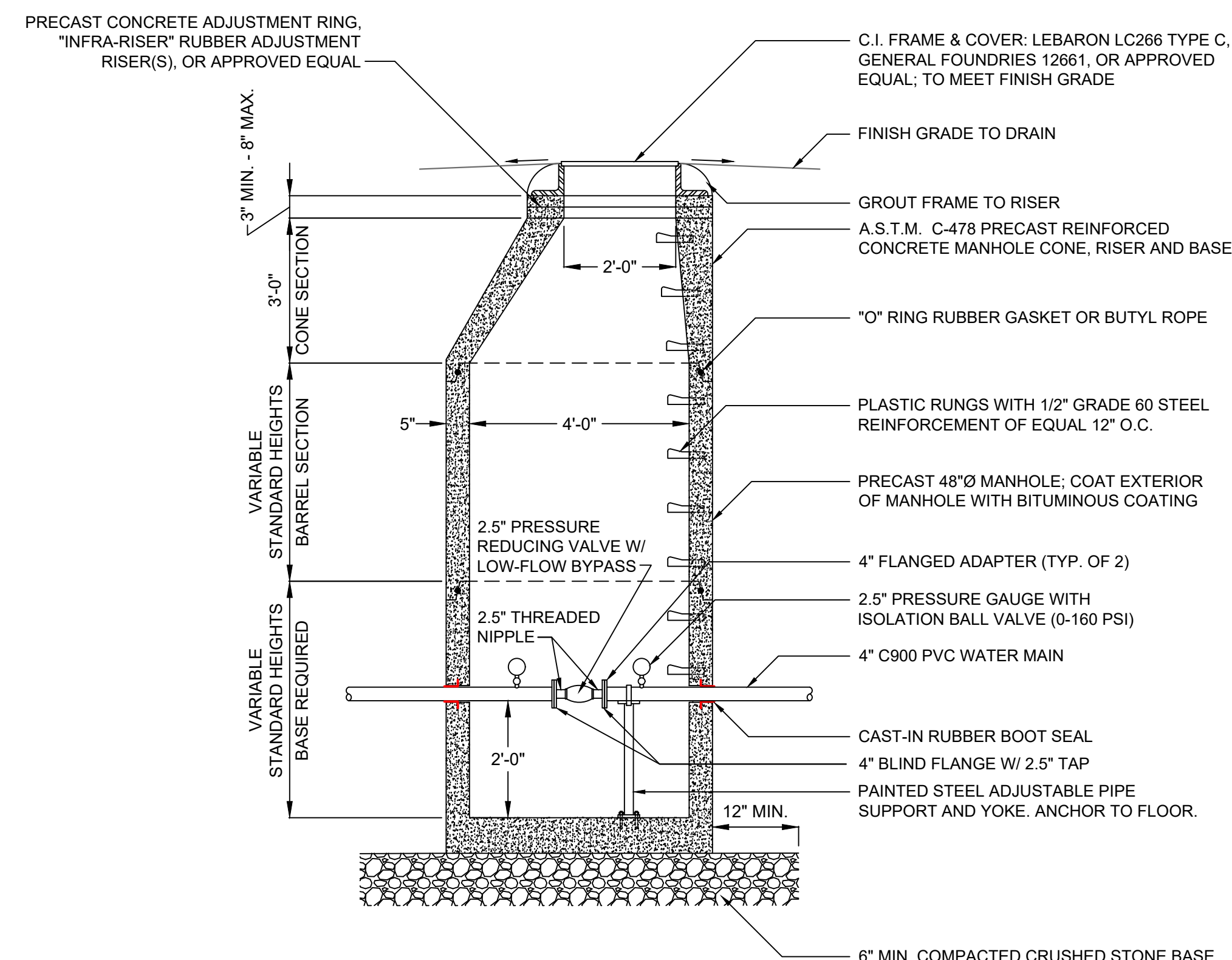
CONCRETE THRUST BLOCK DETAIL

NOT TO SCALE



PIPE IN TRENCH DETAIL

NOT TO SCALE



PRESSURE REDUCING VAULT DETAIL

NOT TO SCALE