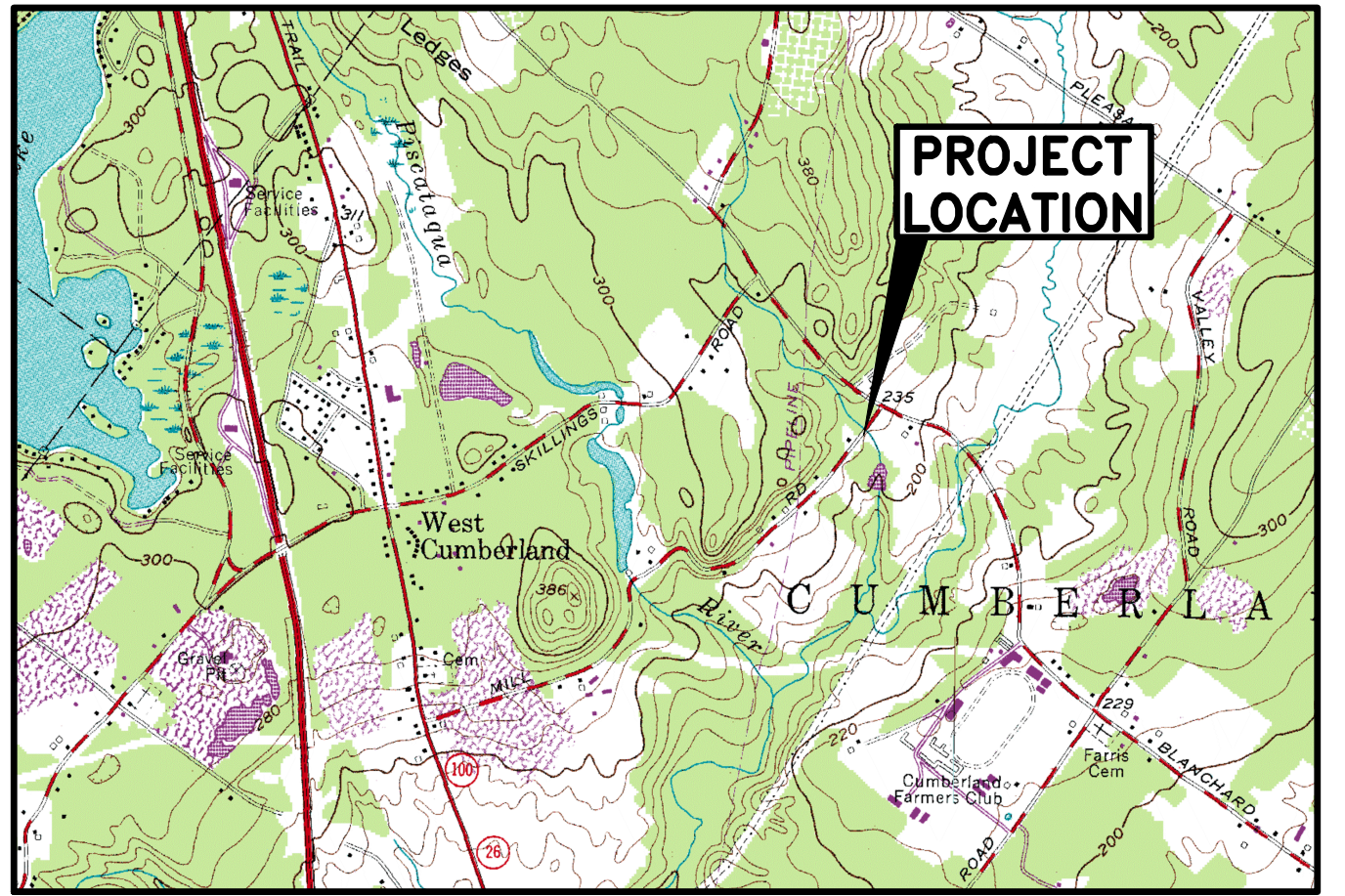


Owner & Applicant

TOWN OF CUMBERLAND

290 TUTTLE ROAD
CUMBERLAND, ME 04021
CONTACT: CHRISTOPHER BOLDUC
PHONE: 207-829-2220

MILL ROAD CULVERT REPLACEMENT TOWN OF CUMBERLAND, MAINE



LOCATION MAP

N.T.S.

LEGEND

EXISTING	DESCRIPTION	PROPOSED
	BUILDING	
	RIGHT OF WAY	
	PROPERTY LINE	
	WETLAND BOUNDARY	
	EDGE OF PAVEMENT	
	GRADING CONTOUR LINE	
	SPOT ELEVATION	
	TREELINE	
	UTILITY POLE	
	OVERHEAD ELECTRIC/TELEPHONE/CABLE	
	CULVERT	
	TEST PIT	
	IRON ROD (SET)	
	IRON ROD (FOUND)	
	MONUMENT	
	RIPRAP	
	SILT FENCE - PERIMETER	
	STONE SEDIMENT BARRIER	
	CENTER LINE	
	FENCE	
	GUARD RAIL	

NOTES

GENERAL NOTES

- TOPOGRAPHIC DATA AND BOUNDARY INFORMATION IS BASED ON A GROUND SURVEY CONDUCTED BY BOUNDARY POINTS OF CUMBERLAND, MAINE, DATED OCTOBER 15, 2015.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR THE ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AND DIG SAFE AT LEAST 72 HOURS PRIOR TO 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.
- MAINTENANCE OF EROSION CONTROL MEASURES IS OF PARAMOUNT IMPORTANCE TO THE OWNER AND THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTIONS OF THE OWNER OR THEIR REPRESENTATIVES AT NO ADDITIONAL COST TO THE OWNER.
- ALL MATERIAL SCHEDULES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL PREPARE HIS OWN MATERIAL SCHEDULES BASED UPON HIS PLAN REVIEW. ALL SCHEDULES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR PERFORMING WORK.
- ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO MAINE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND THE SPECIFICATIONS ATTACHED TO THE PROJECT DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN ALL NECESSARY BARRICADES, LIGHTS, WARNING SIGNS AND OTHER DEVICES TO SAFEGUARD TRAFFIC PROPERLY WHILE WORK IS IN PROGRESS FOR THE DURATION OF THE PROJECT.
- ANY GRANITE BLOCKS ENCOUNTERED DURING CONSTRUCTION SHALL BE DELIVERED BY THE CONTRACTOR TO THE CUMBERLAND PUBLIC WORKS GARAGE ON DROWNE ROAD.
- ALL WORK SHALL BE COMPLETED BETWEEN JULY 15 AND SEPTEMBER 30, 2018.
- CONTRACTOR MAY CLOSE MILL ROAD FOR A MAXIMUM OF 15 DAYS. REFER TO PROJECT SPECIFICATIONS FOR CONSTRUCTION SIGNAGE AND ROAD CLOSURE REQUIREMENTS.

LAYOUT NOTES

- PROPERTY LINE R.O.W. MONUMENTS, SURVEY REFERENCE POINTS AND TEMPORARY BENCH MARKS SHALL NOT BE DISTURBED BY CONSTRUCTION. IF DISTURBED, THEY SHALL BE RESET TO THEIR ORIGINAL LOCATIONS AT THE CONTRACTOR'S EXPENSE, BY A MAINE LICENSED PROFESSIONAL LAND SURVEYOR.

PERMITTING NOTES

- THIS PROJECT IS EXEMPT FROM THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION NRPA PERMITTING. THE PROJECT IS SUBJECT TO AN ARMY CORPS GENERAL PERMIT FOR THE STATE OF MAINE (CATEGORY 1). A COPY OF THE PERMIT IS INCLUDED IN THE CONTRACT DOCUMENTS. THE CONSTRUCTION WILL BE GOVERNED BY THE TOWN OF CUMBERLAND STREET CONSTRUCTION ORDINANCE WHICH IS AVAILABLE FOR VIEWING AT THE OFFICE OF THE ENGINEER OR THE MUNICIPAL OFFICE.

CONSTRUCTION NOTES

- UNLESS OTHERWISE NOTED, ALL STORM DRAIN PIPE SHALL BE IN ACCORDANCE WITH MDOT SPECIFICATIONS SECTION 603-- PIPE CULVERTS AND STORM DRAINS, LATEST REVISION WITH THE EXCEPTION THAT THE ONLY ACCEPTABLE TYPES OF PIPE ARE AS FOLLOWS:
REINFORCED CONCRETE PIPE
POLYVINYLCHLORIDE (PVC) PIPE
SMOOTH BORE POLYETHYLENE PIPE
- TOPSOIL STRIPPED IN AREAS OF CONSTRUCTION THAT IS SUITABLE FOR REUSE AS LOAM SHALL BE STOCKPILED ON SITE AT A LOCATION TO BE DESIGNATED BY THE OWNER. UNSUITABLE SOIL SHALL BE SEPARATED, REMOVED AND DISPOSED OF AT AN APPROVED DISPOSAL LOCATION OFF SITE.
- THE CONTRACTOR SHALL ANTICIPATE THAT STREAM FLOWS AND GROUNDWATER WILL BE ENCOUNTERED DURING CONSTRUCTION AND SHALL INCLUDE SUFFICIENT COSTS WITHIN THEIR BID TO PROVIDE DEWATERING AND MAINTAIN STREAM FLOW DURING CONSTRUCTION AS NECESSARY. NO SEPARATE PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR DEWATERING AND MAINTAINING STREAM FLOW.
- PERFORM UTILITY WORK ACCORDING TO PORTLAND WATER DISTRICT SPECIFICATIONS.

EROSION CONTROL NOTES

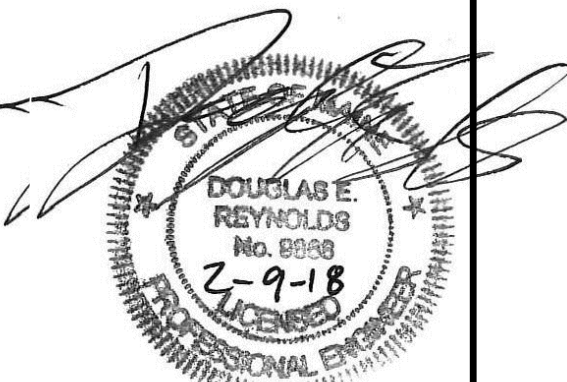
- LAND DISTURBING ACTIVITIES SHALL BE ACCOMPLISHED IN A MANNER AND SEQUENCE THAT CAUSES THE LEAST PRACTICAL DISTURBANCE OF THE SITE.
- PRIOR TO BEGINNING ANY CLEARING/LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL THE PERIMETER SILT FENCES.
- ALL GROUND AREAS GRADED FOR CONSTRUCTION WILL BE GRADED, LOAMED AND SEEDED AS SOON AS POSSIBLE. PERMANENT SEED MIXTURE SHALL CONFORM TO THE SEEDING PLAN CONTAINED IN THE EROSION CONTROL PLANS AND NOTES.
- SILT FENCES SHALL BE INSPECTED, REPAIRED AND CLEANED AS STATED IN THE EROSION CONTROL NOTES.
- SILT REMOVED FROM AROUND INLETS AND BEHIND THE SILT FENCES SHALL BE PLACED ON A TOPSOIL STOCKPILE AND MIXED INTO IT FOR LATER USE IN LANDSCAPING OPERATIONS.
- THE CONTRACTOR IS CAUTIONED THAT FAILURE TO COMPLY WITH THE SEQUENCE OF CONSTRUCTION, EROSION/SEDIMENT CONTROL PLAN, AND OTHER PERMIT REQUIREMENTS MAY RESULT IN MONETARY PENALTIES. THE CONTRACTOR SHALL BE ASSESSED ALL SUCH PENALTIES AT NO COST TO THE OWNER OR PERMITTEE.
- ALL NON-PAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE LOAMED AND SEEDED, UNLESS OTHERWISE SHOWN ON PLANS OR DIRECTED BY THE OWNER.
- SEE SHEET C301 FOR FULL EROSION CONTROL NOTES.

INDEX

C001	COVER SHEET, GENERAL NOTES & LEGEND
—	EXISTING CONDITIONS PLAN (BOUNDARY POINTS)
C101	LAYOUT PLAN
C102	GRADING & EROSION CONTROL PLAN AND PROFILE
C103	CULVERT SECTIONS
C104	ROUTE 100 WATERMAIN EXTENSION BID ALT 1
C301	DETAILS
1 OF 2	STANDARD WATER DETAILS
2 OF 2	STANDARD WATER DETAILS

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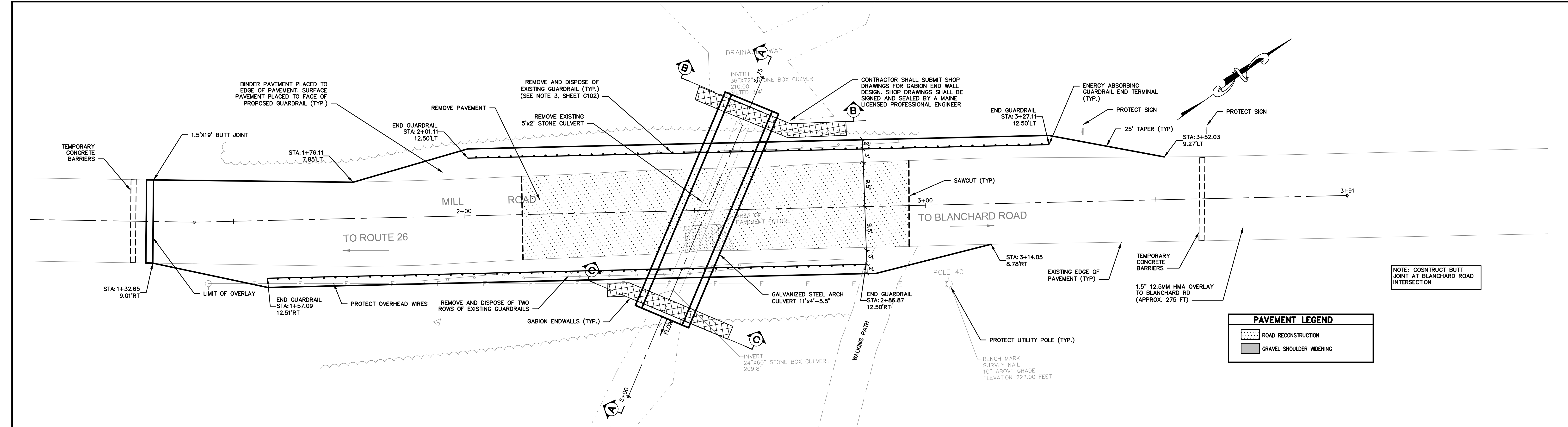
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Client:	Town of Cumberland 290 Tuttle Road, Cumberland, Me 04021

Drawing No.

C001

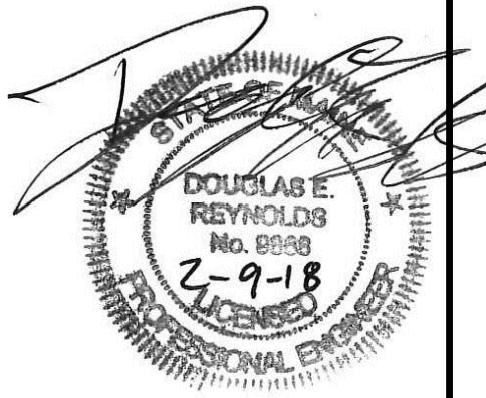
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MILL ROAD LAYOUT PLAN
1" = 10'

PAVEMENT LEGEND	
	ROAD RECONSTRUCTION
	GRAVEL SHOULDER WIDENING

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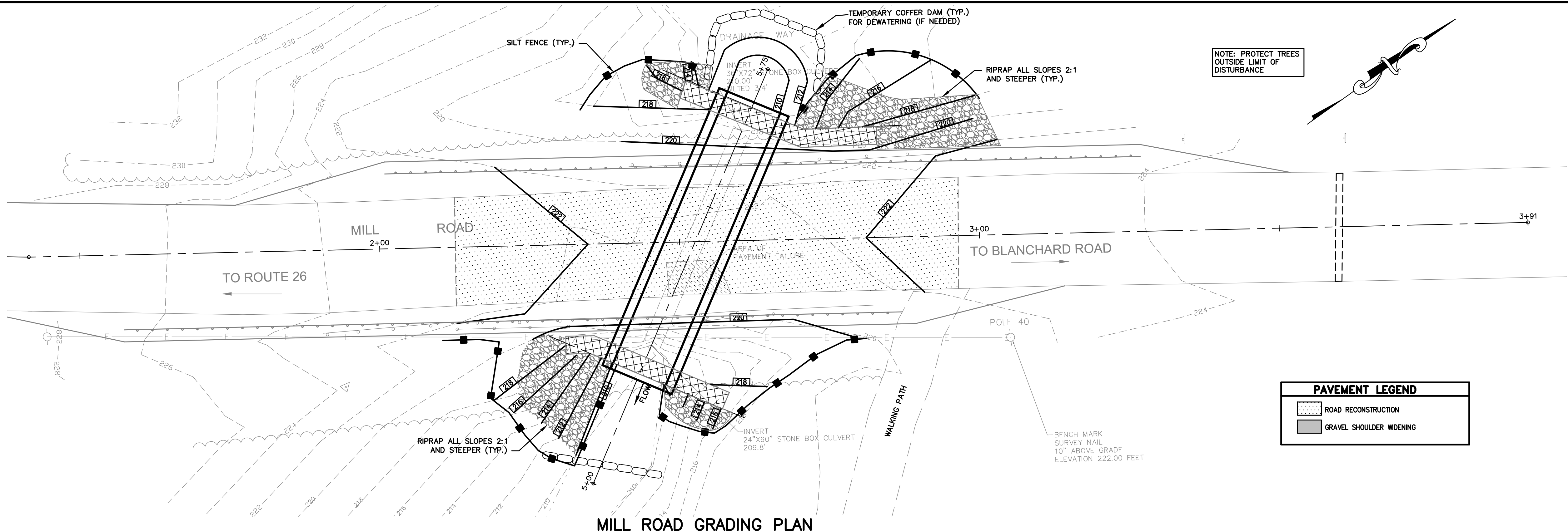
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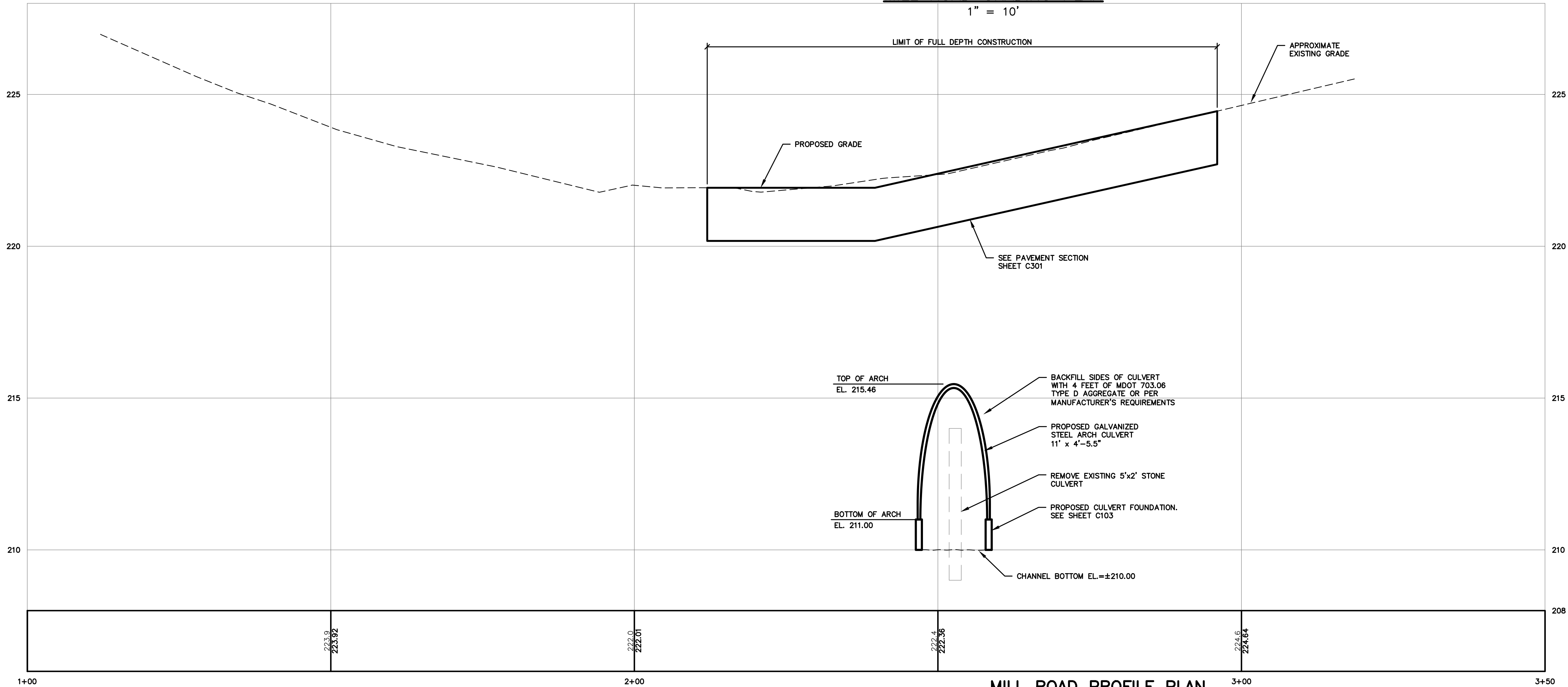
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MILL ROAD GRADING PLAN

1" = 10'



MILL ROAD PROFILE PLAN

1" = 10' HORIZONTAL

1" = 2' VERTICAL

NOTES:

1. SILT FENCE AND TEMPORARY STONE CHECK DAM INSTALLATION SHALL BE COORDINATED WITH THE CONSTRUCTION SEQUENCE AND STREAM DIVERSION. SILT FENCE SHALL NOT OBSTRUCT CULVERT FLOW. INSTALL SILT FENCE AND ALL OTHER EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES AND AS SITE CONDITIONS DICTATE. ANY CONSTRUCTION DEWATERING DISCHARGES MAY NOT BE DISCHARGED DIRECTLY BACK INTO THE STREAM.
2. EXISTING UTILITIES SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONTACT DIGSAFE AT 1-888-DIGSAFE (344-7233) AT LEAST 3 BUSINESS DAYS IN ADVANCE OF THE START OF WORK TO HAVE THE SITE REVIEWED FOR ANY UNDERGROUND UTILITIES.
3. TRAFFIC CONTROL SHALL BE PROVIDED BY THE CONTRACTOR AT ALL TIMES WHEN TWO TRAVEL LANES ARE NOT AVAILABLE OR WHEN WORK ADJACENT TO THE TRAVEL WAY REQUIRES CONTROL. THE SITE MAY NOT BE LEFT WITHOUT TEMPORARY OR PERMANENT GUARDRAIL PROTECTION IN PLACE AT THE EDGES OF THE TRAVEL WAY.
4. RECONSTRUCTION OF THE ROADWAY SIDE SLOPES ASSUMES THAT A ONE (1) FOOT DEPTH OF SOILS SHALL BE GRUBBED AND DISPOSED OF WITHIN THE FILL FOOTPRINT. ALL FILL MATERIAL SHALL BE GRANULAR BORROW AND SHALL NOT BE PLACED OVER UNSUITABLE SOILS. IF UNSUITABLE SOILS ARE ENCOUNTERED BELOW THE ONE (1) FOOT GRUBBING DEPTH, THE CONTRACTOR SHALL CONSULT WITH THE TOWN OF CUMBERLAND PUBLIC WORKS DEPARTMENT OR DESIGN ENGINEER BEFORE PROCEEDING WITH WORK. UNSUITABLE SOILS SHALL BE EXCAVATED AND REPLACED WITH GRANULAR BORROW AT THE DIRECTION OF THE TOWN OR DESIGN ENGINEER.
5. ROADWAY SIDE SLOPES WITHIN WETLAND IMPACT AREAS SHALL BE CONSTRUCTED AT 1.5 HORIZONTAL : 1 VERTICAL SLOPES UNLESS SHOWN OR NOTED OTHERWISE. ADJACENT TO THE CULVERT, AND AT ALL 1.5:1 SLOPES. THE SLOPE SHALL BE CONSTRUCTED USING RIPRAP. ALL SLOPES TO BE REVEGETATED SHALL BE CONSTRUCTED USING NORTH AMERICAN GREEN SC150 EROSION CONTROL BLANKET INSTALLED OVER LOAM AND SEED, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
6. EASEMENTS FOR CONSTRUCTION OUTSIDE THE RIGHT-OF-WAY SHALL BE OBTAINED BY THE TOWN.
7. CONTRACTOR SHALL GRADE SHOULDERS TO DISPERSE RUNOFF AS SHEET FLOW OFF THE EDGE OF PAVEMENT (TYP).
8. EXISTING CULVERT(S) MAY BE USED AS A TEMPORARY STREAM BYPASS DURING CONSTRUCTION. PIPE EXTENSIONS AND DIVERSION BARRIERS MAY BE NECESSARY. CONTRACTOR TO SUBMIT A STREAM BYPASS PLAN AND DEWATERING PLAN FOR REVIEW AND APPROVAL PRIOR TO START OF INSTREAM WORK. TEMPORARY STREAM BYPASS WORK AND ASSOCIATED COSTS ARE INCIDENTAL TO THE PROJECT.
9. ANY COFFER DAMS MUST BE LOCATED WITHIN APPROXIMATELY 20' OF THE PROPOSED HEADWALLS. DEWATERING SYSTEM SHALL DISCHARGE TO A TEMPORARY SEDIMENT BASIN OR FILTER BAG DEVICE. TURBID WATER SHALL NOT BE DISCHARGED INTO THE STREAM CHANNEL.
10. IF GUARDRAIL POSTS ARE DRIVEN THROUGH SHOULDER PAVEMENT, BITUMINOUS COLD PATCH SHALL BE USED TO CHINK AND SEAL GAPS AROUND GUARDRAIL POSTS.
11. SAVE EXISTING LARGE BOULDERS AND STONE FOR USE AS NEW RIP RAP AT INLET AND OUTLET. ADDITIONAL RIP RAP MAY ALSO BE NEEDED TO PROVIDE ADEQUATE QUANTITY.
12. CONTRACTOR SHALL SUBMIT A DETAILED ROAD CLOSURE AND DETOUR PLAN FOR REVIEW AND APPROVAL. DETOUR PLAN SHALL DIRECT TRAFFIC FROM INTERSECTION OF MILL ROAD AND BLANCHARD ROAD TO MILL ROAD AND ROUTE 100. MILL ROAD MAY BE CLOSED FOR UP TO 15 BUSINESS DAYS, AFTER WHICH, AT LEAST ONE WAY ALTERNATING TRAFFIC MUST BE ALLOWED.
13. NO HOLES, TRENCHES OR EXCAVATIONS SHALL BE LEFT OPEN OVERNIGHT WITHOUT PRIOR PERMISSION FROM THE PUBLIC WORKS DIRECTOR.
14. 4" LOAM AND SEED ON ALL DISTURBED AREAS UNLESS OTHERWISE NOTED.

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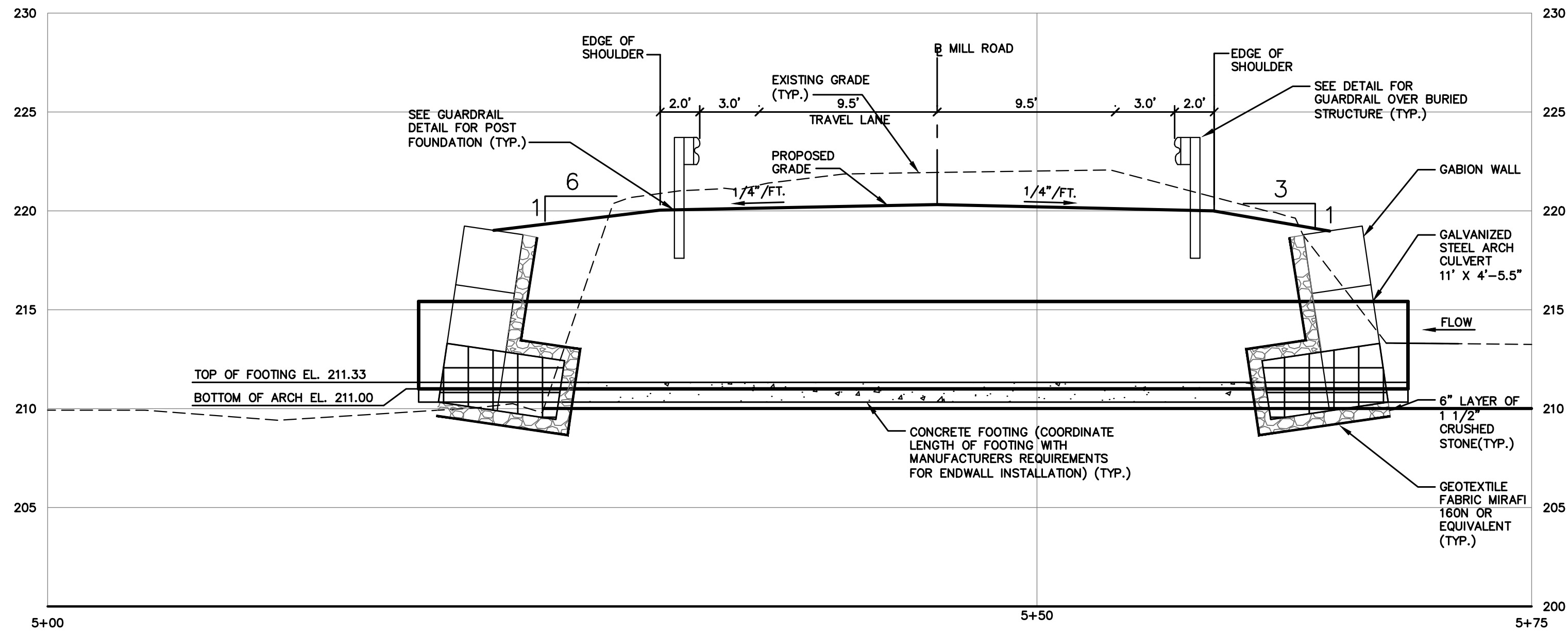


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Client:	Town of Cumberland 290 Tuttle Road, Cumberland, Me 04021

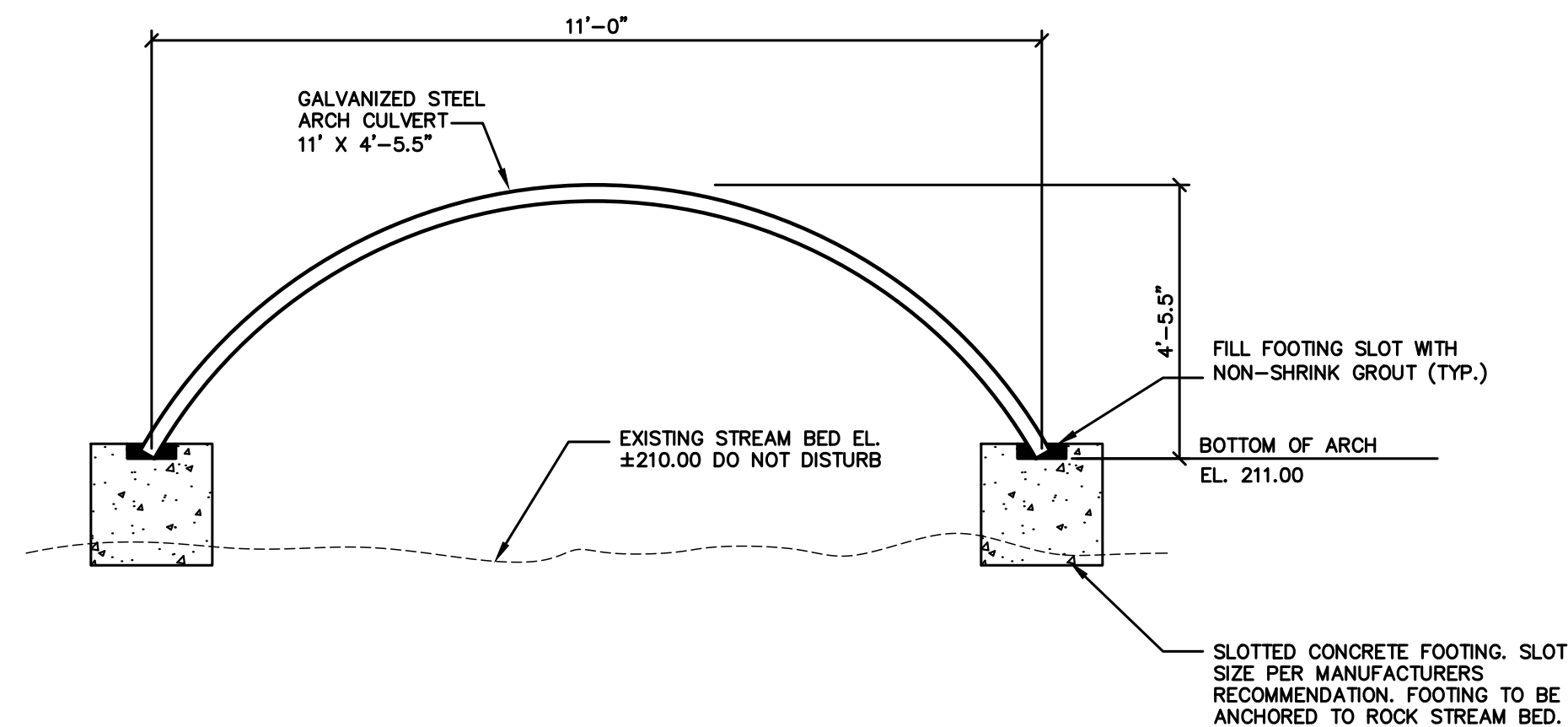
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C102



SECTION A-A

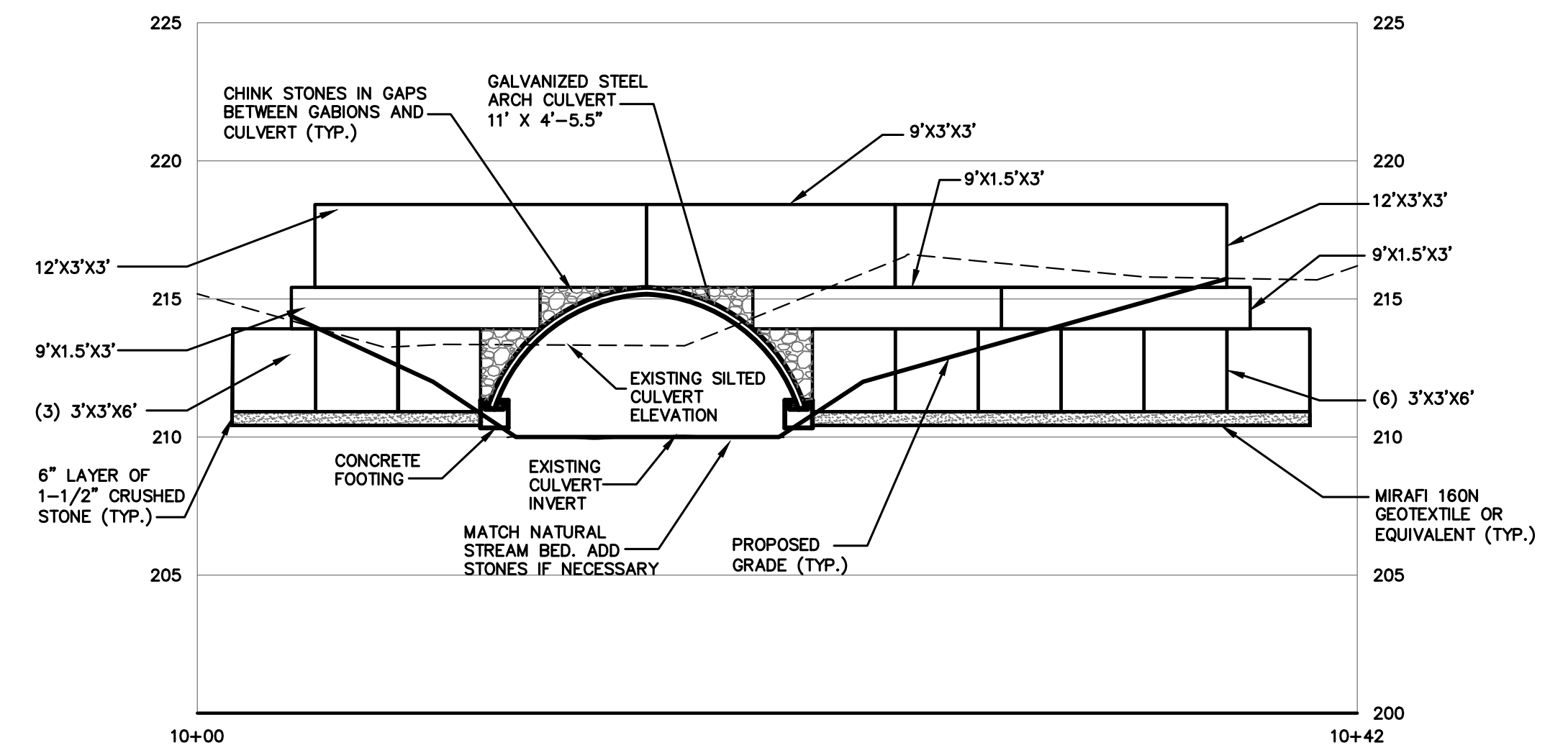
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1" = 5' VERTICAL



TYPICAL CULVERT SECTION

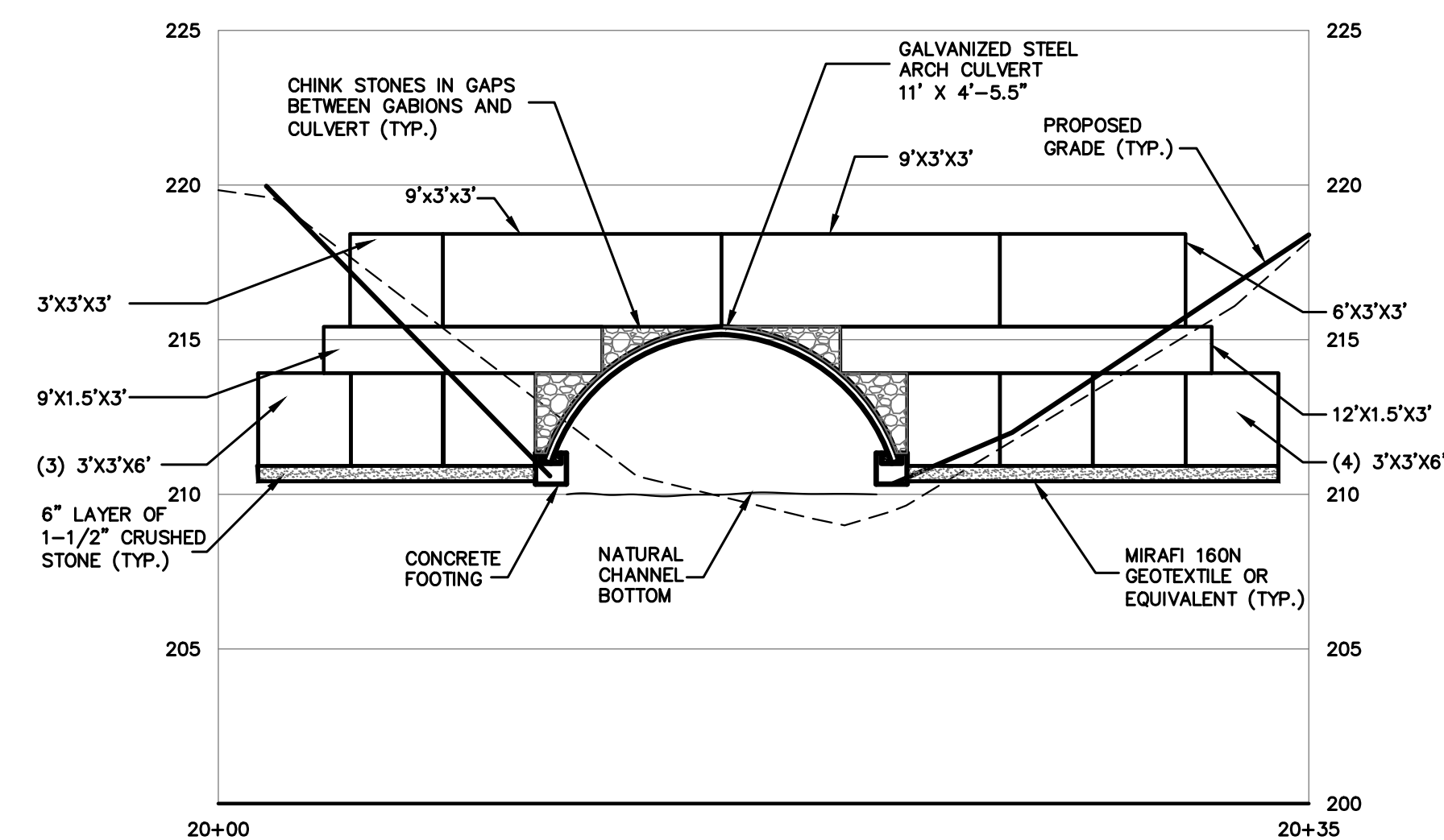
NTS

NOTE:
CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR
FOUNDATION DESIGN. DESIGN SHALL BE SIGNED AND
SEALED BY A MAINE LICENSED PROFESSIONAL ENGINEER.



SECTION B-B UPSTREAM SECTION

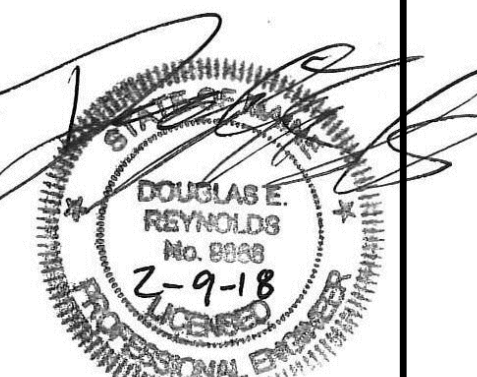
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1" = 5' VERTICAL



SECTION C-C DOWNSTREAM SECTION

1" = 5' HORIZONTAL
1" = 5' VERTICAL

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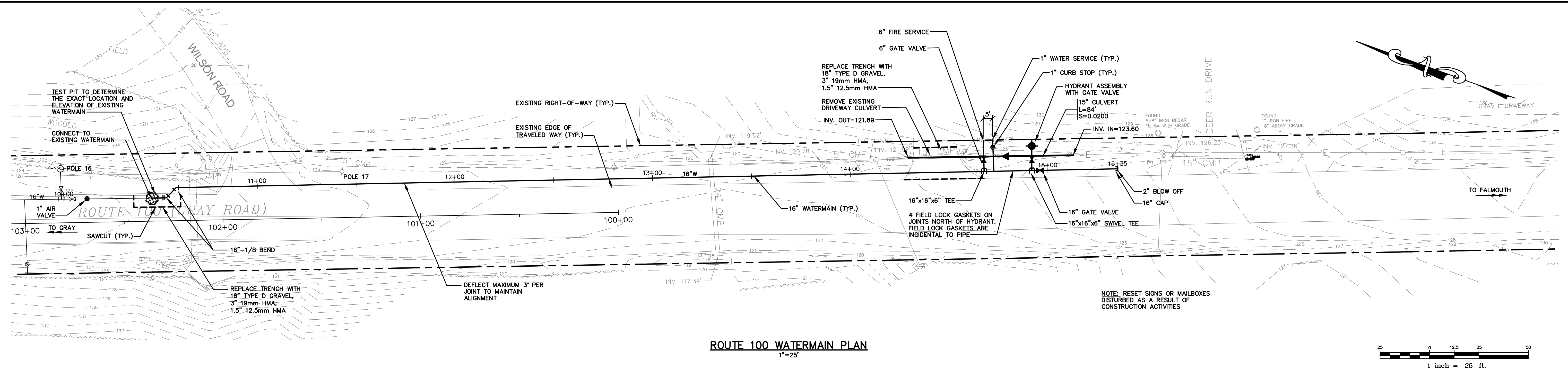


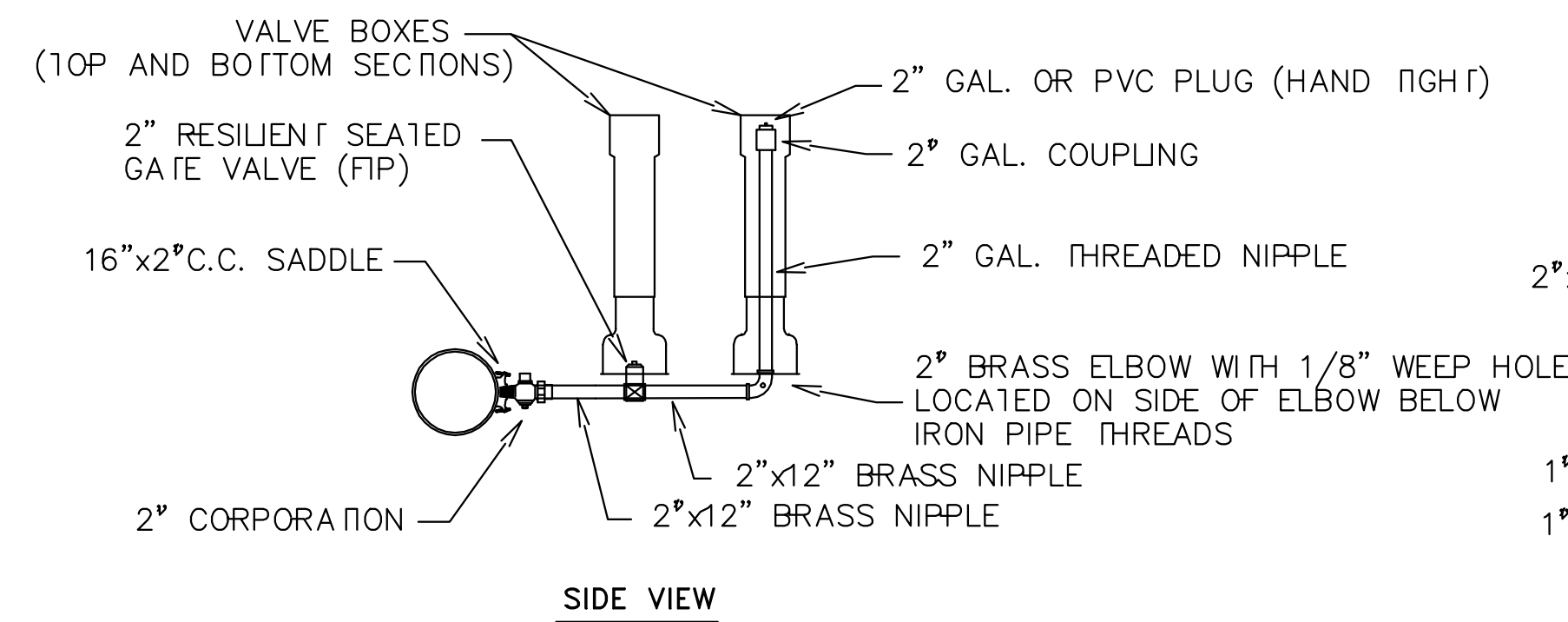
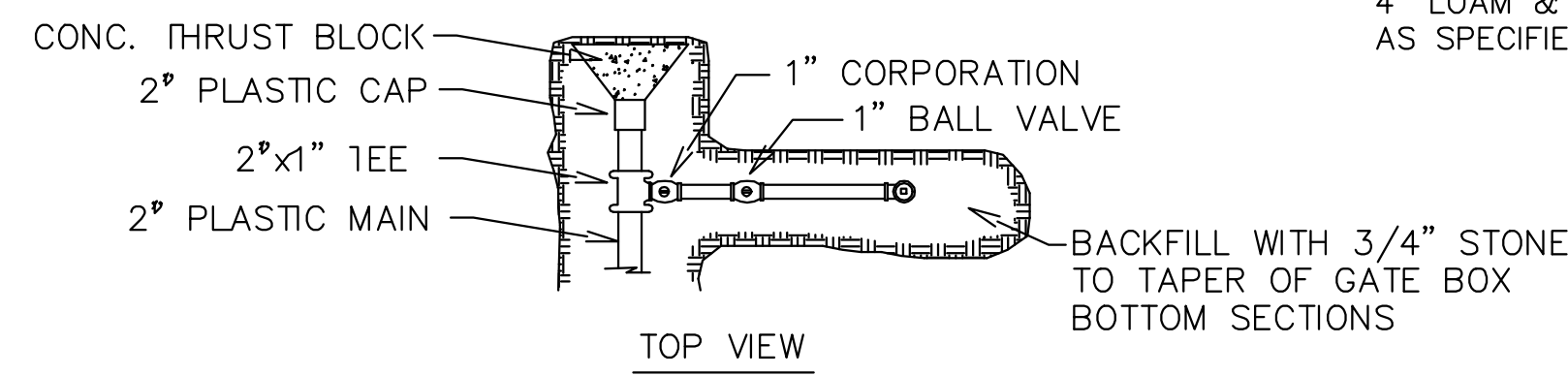
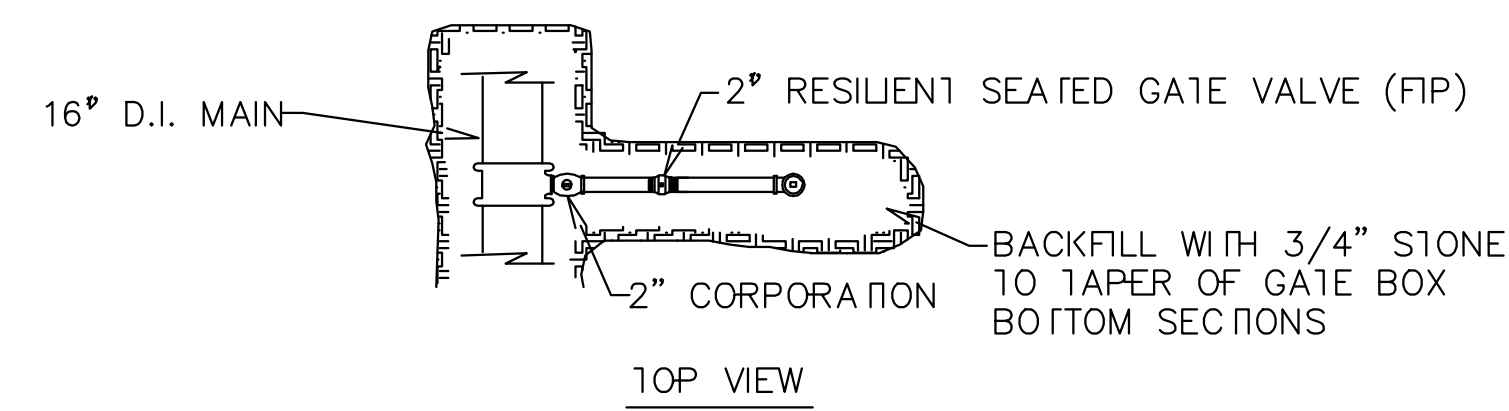
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Client:	Town of Cumberland 290 Tuttle Road, Cumberland, Me 04021

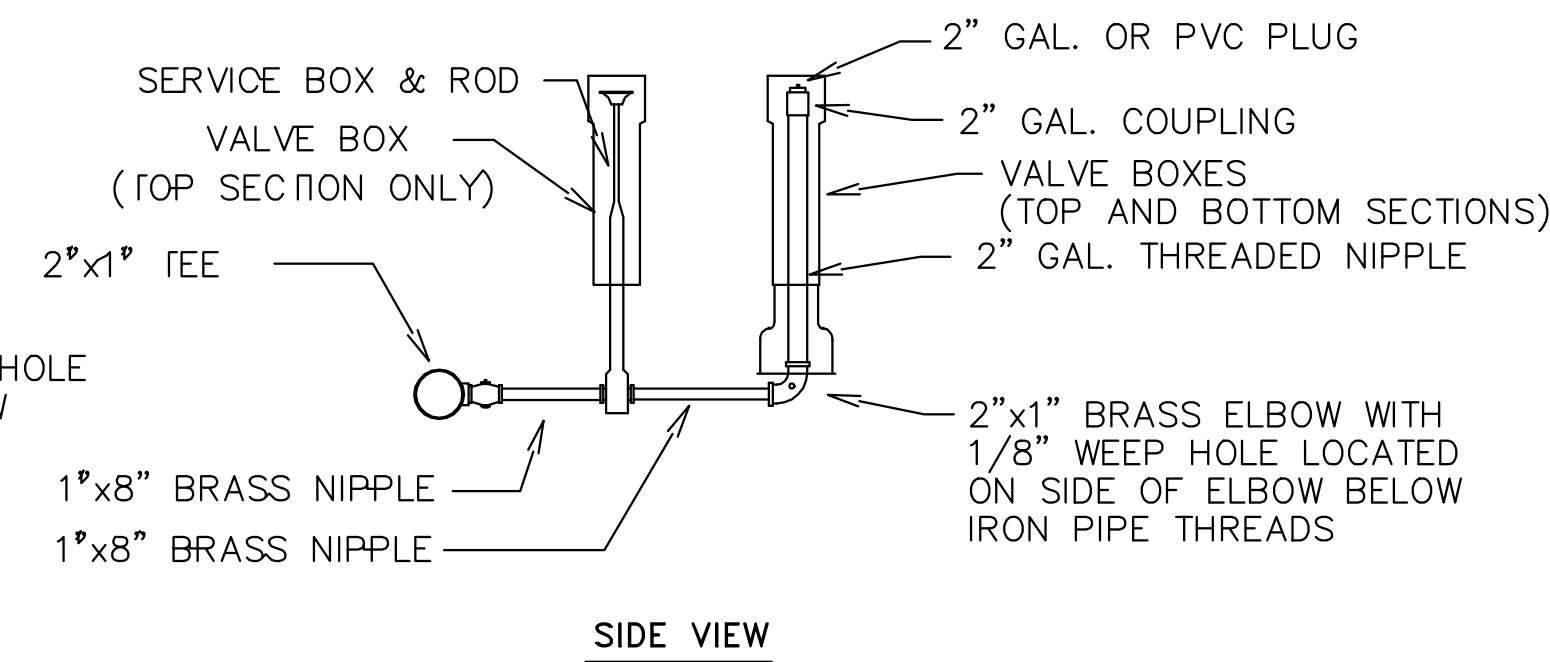
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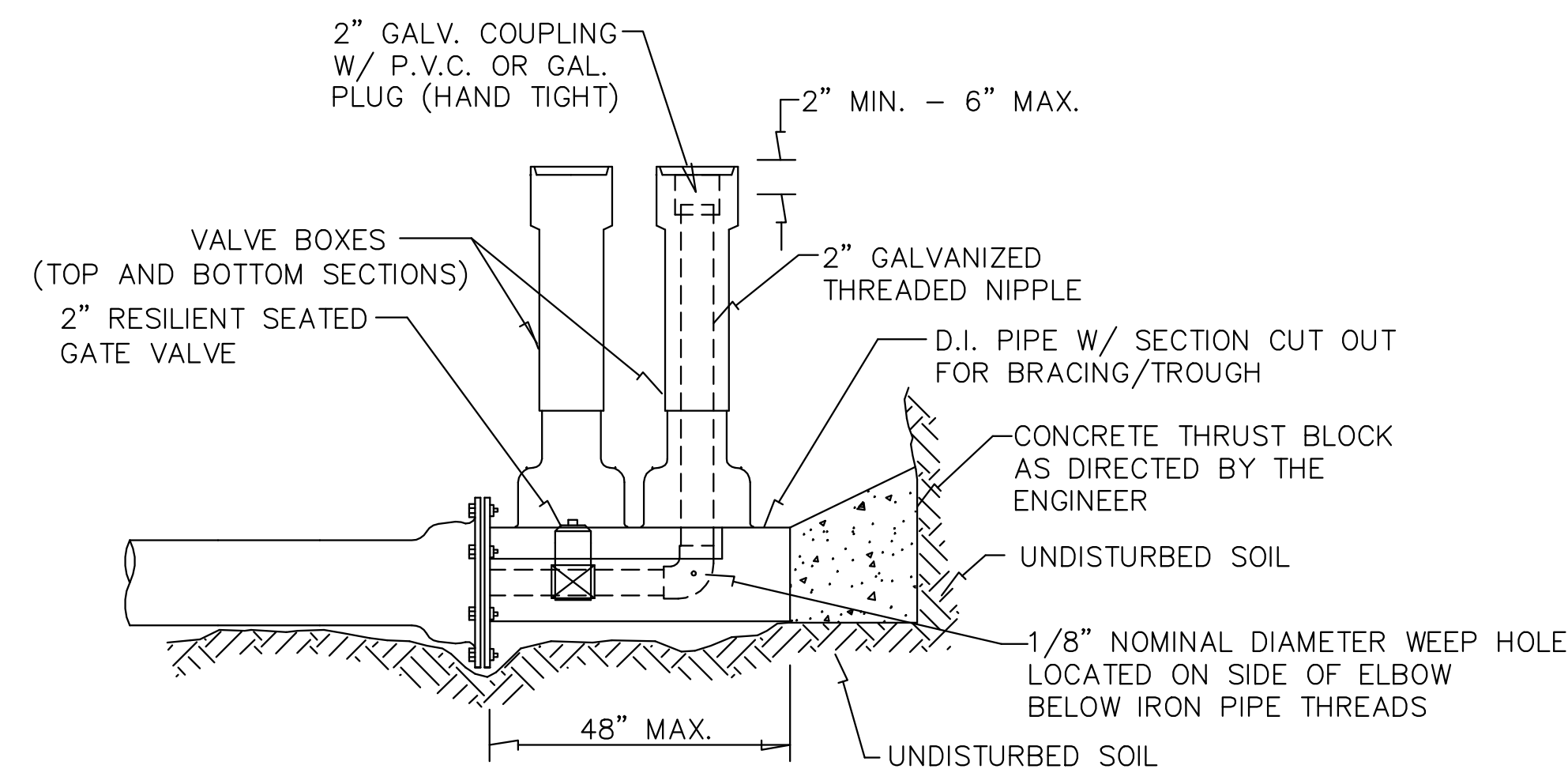
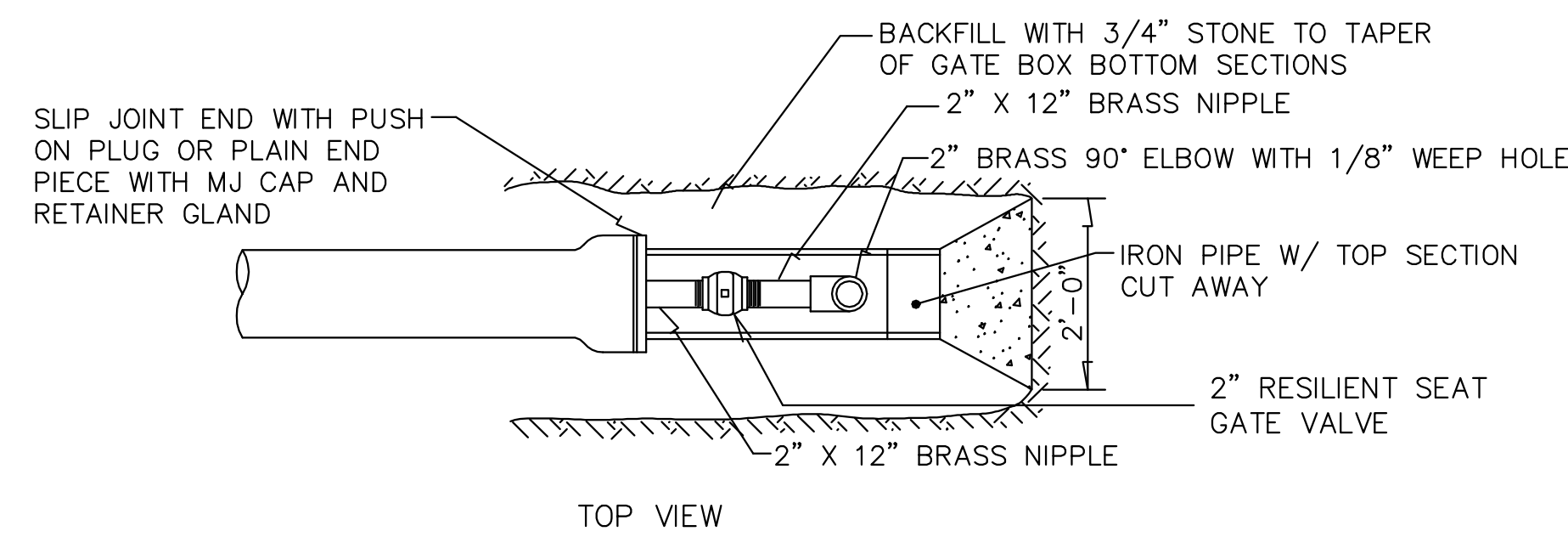




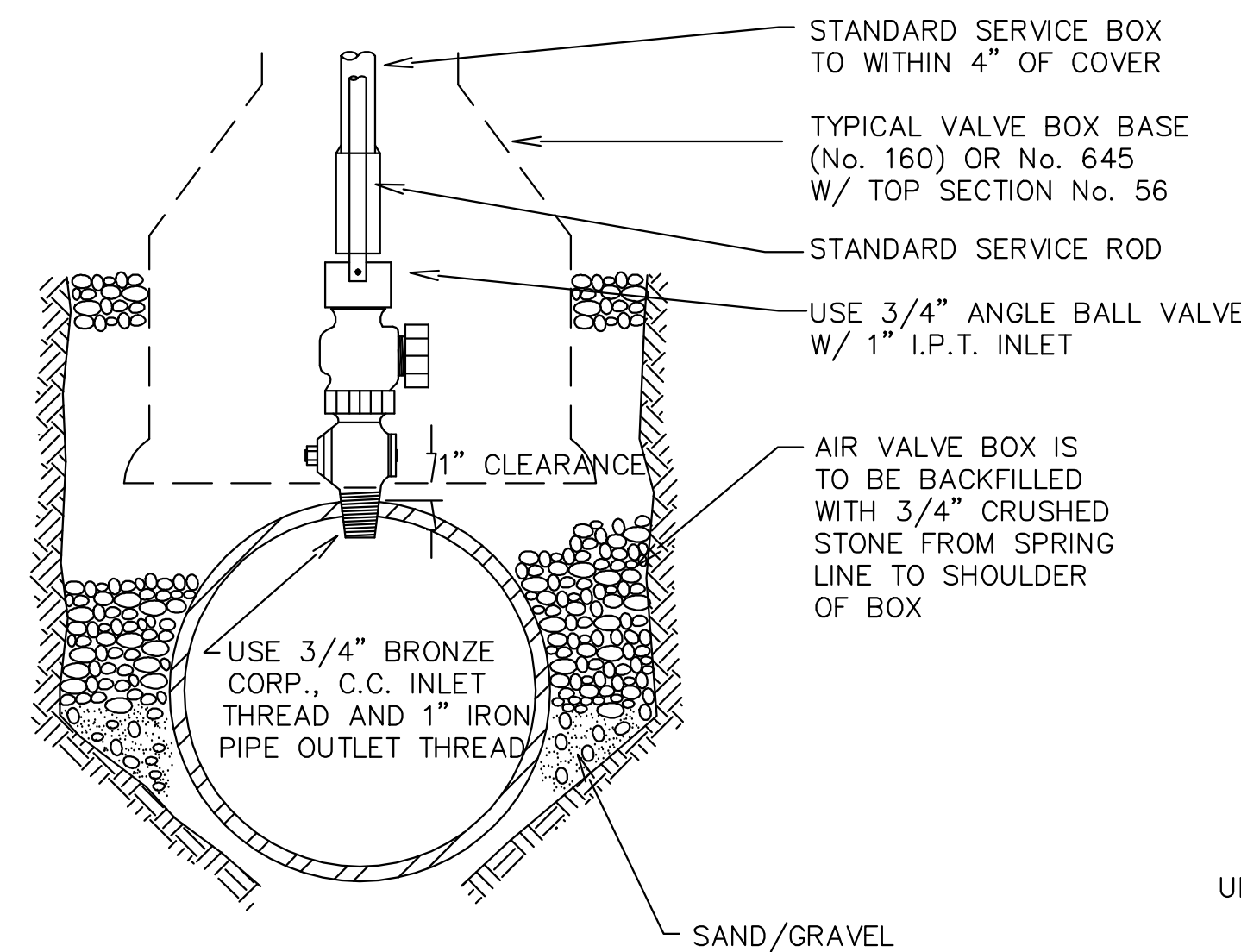
SIDE-ARM BLOW-OFF
4" & LARGER MAINS



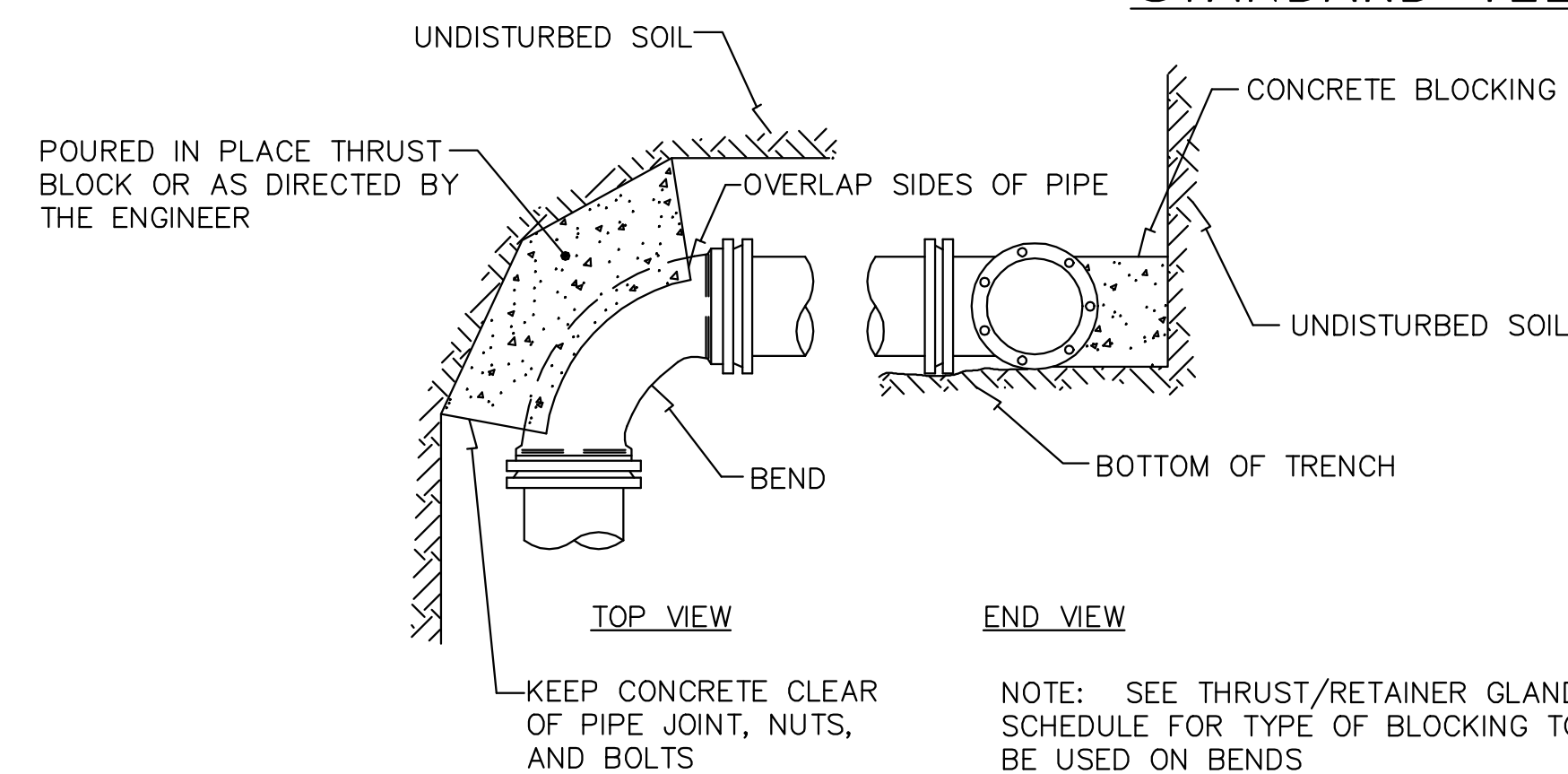
SIDE-ARM BLOW-OFF
2" MAIN



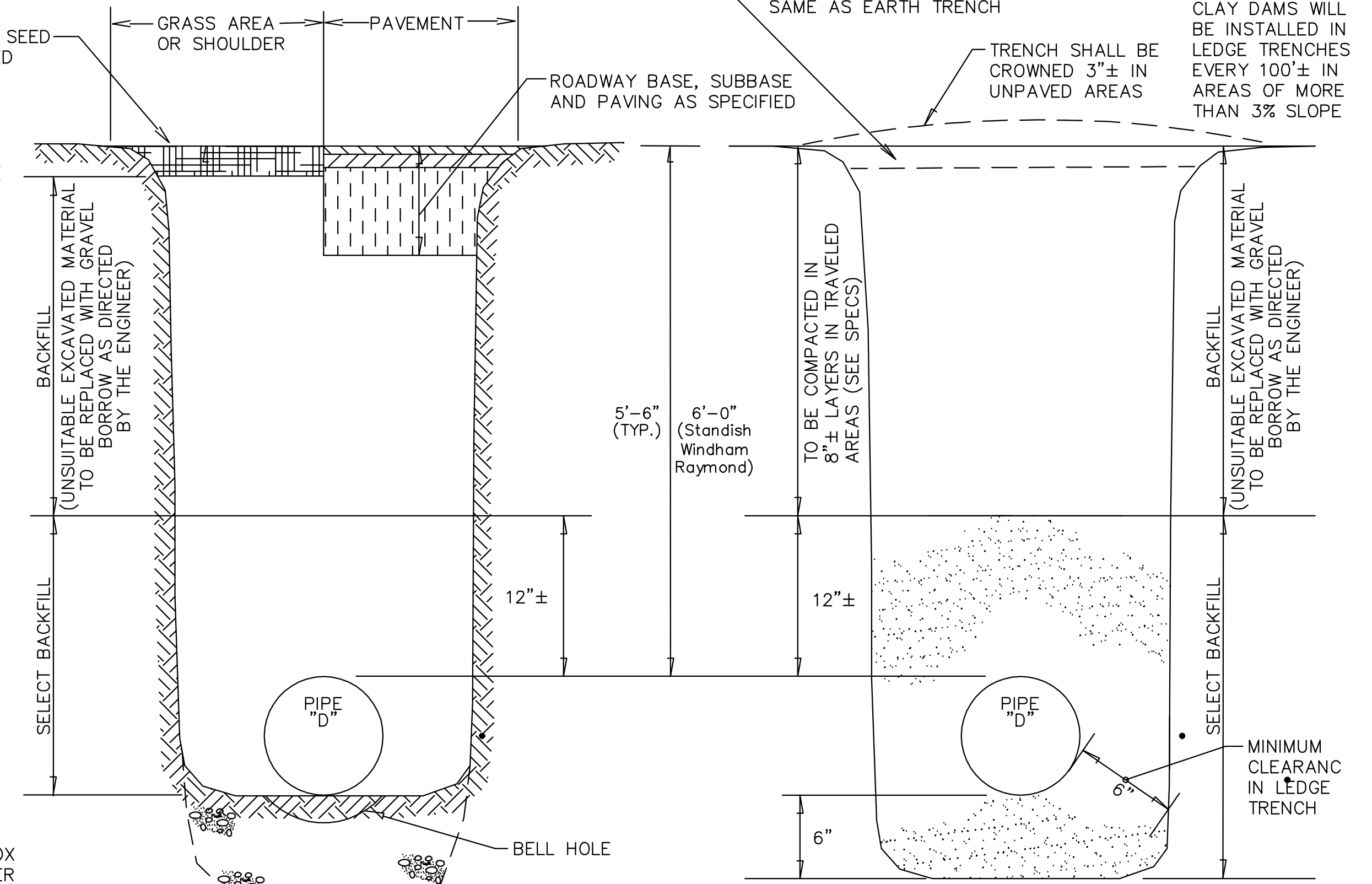
STANDARD 2" BLOW OFF



TYPICAL AIR VALVE (1")

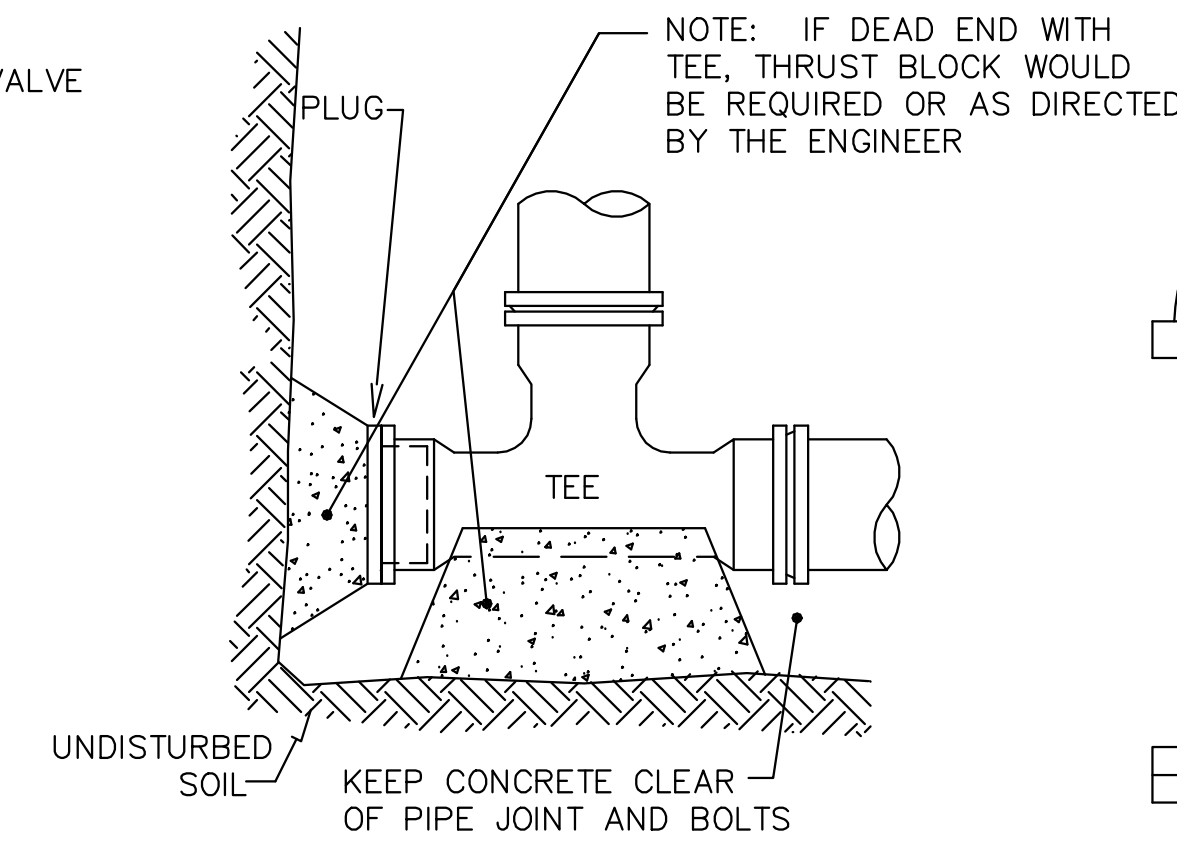


STANDARD BEND BLOCKING

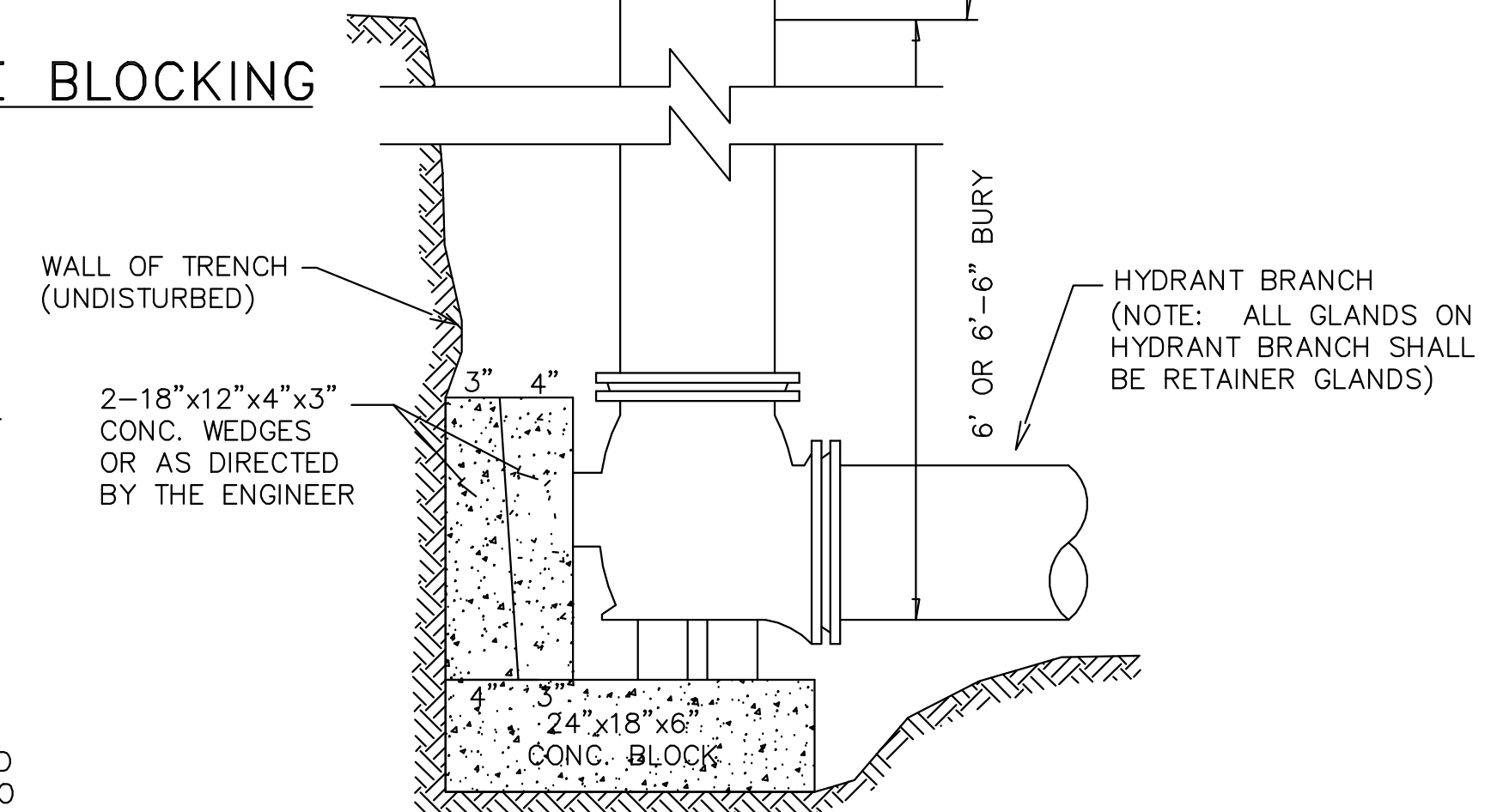


SECTION THRU EARTH TRENCH

SECTION THRU LEDGE TRENCH



STANDARD TEE BLOCKING



TYPICAL HYDRANT
INSTALLATION DETAIL

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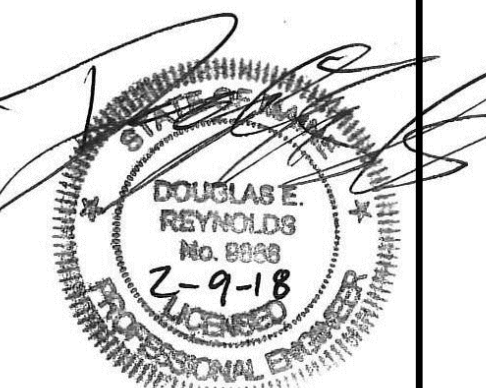
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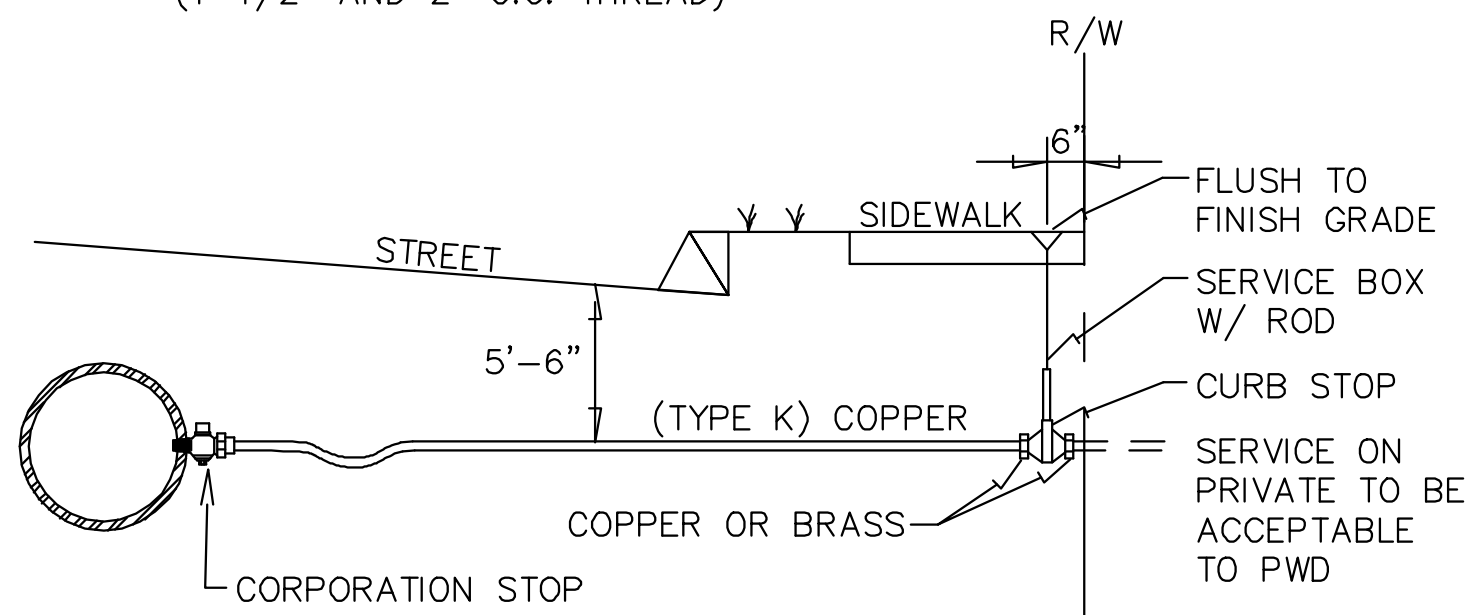
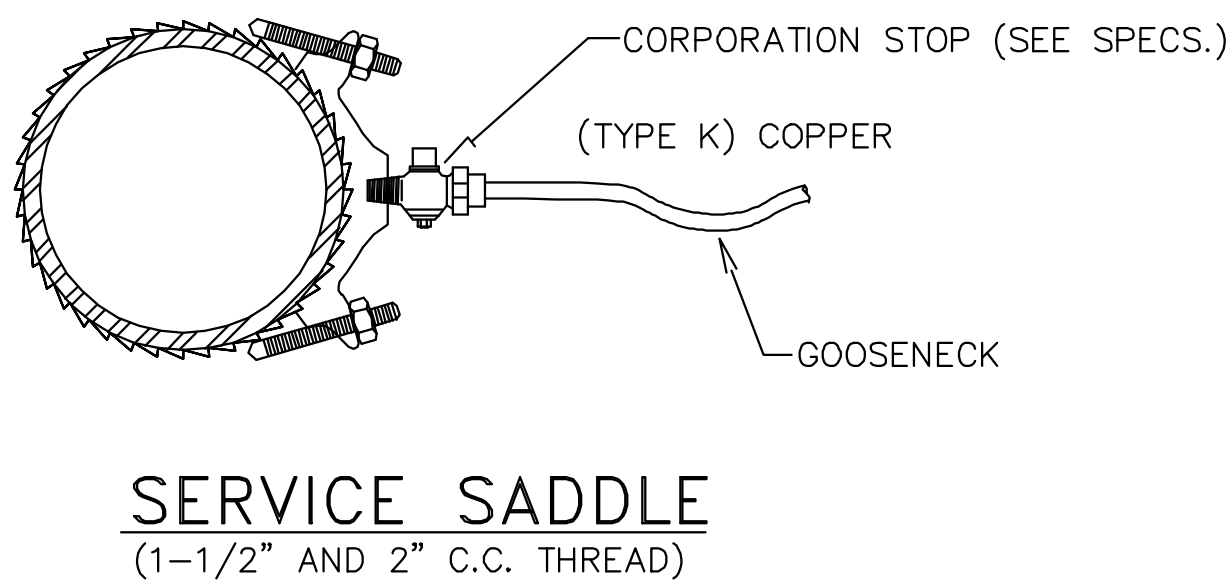
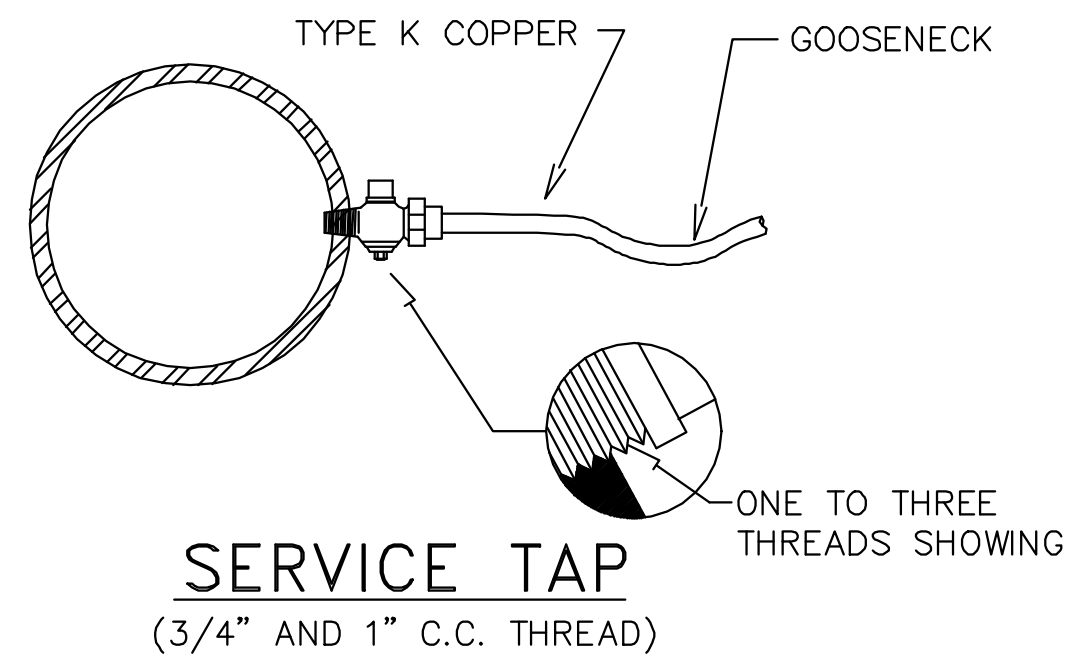


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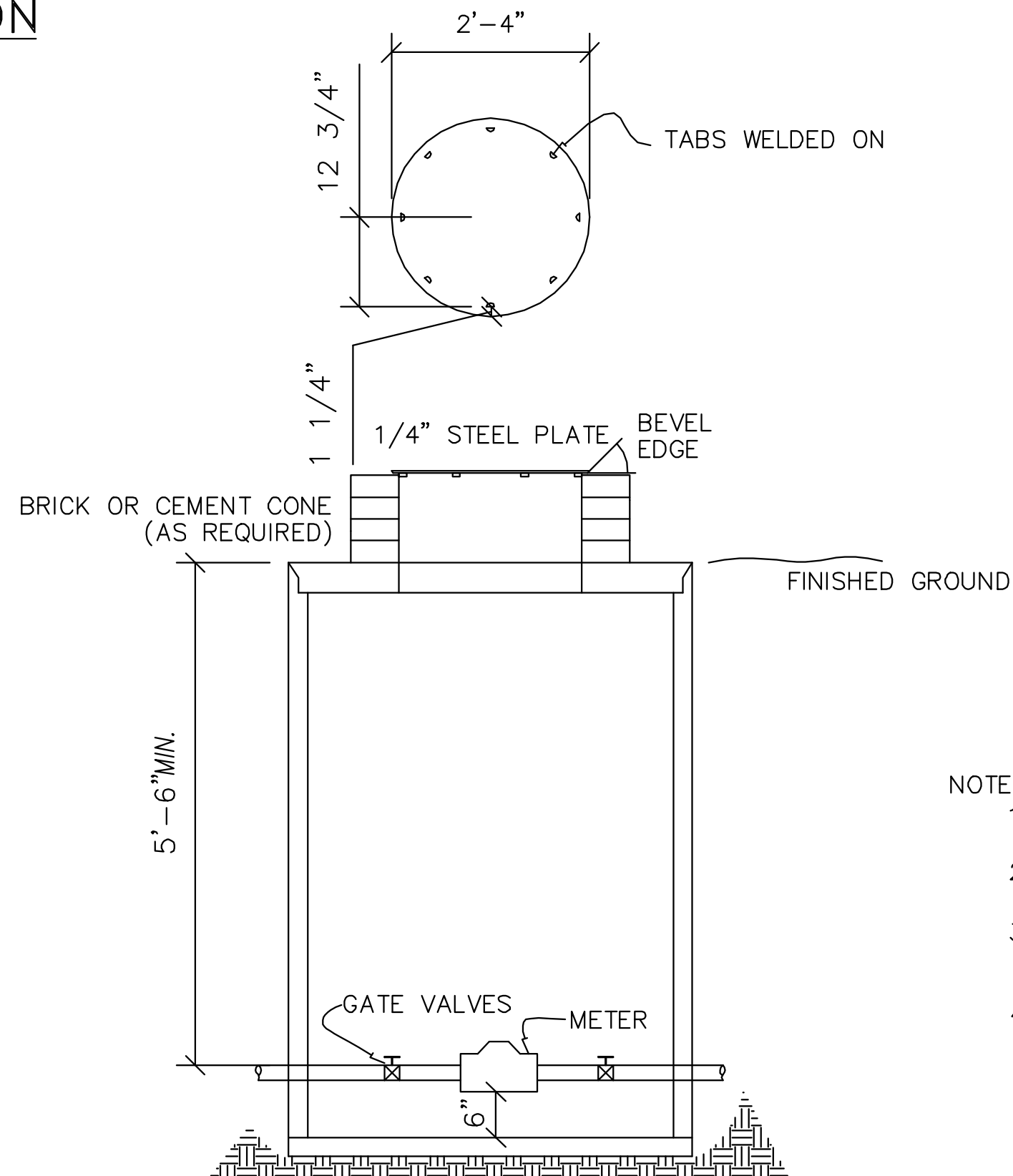
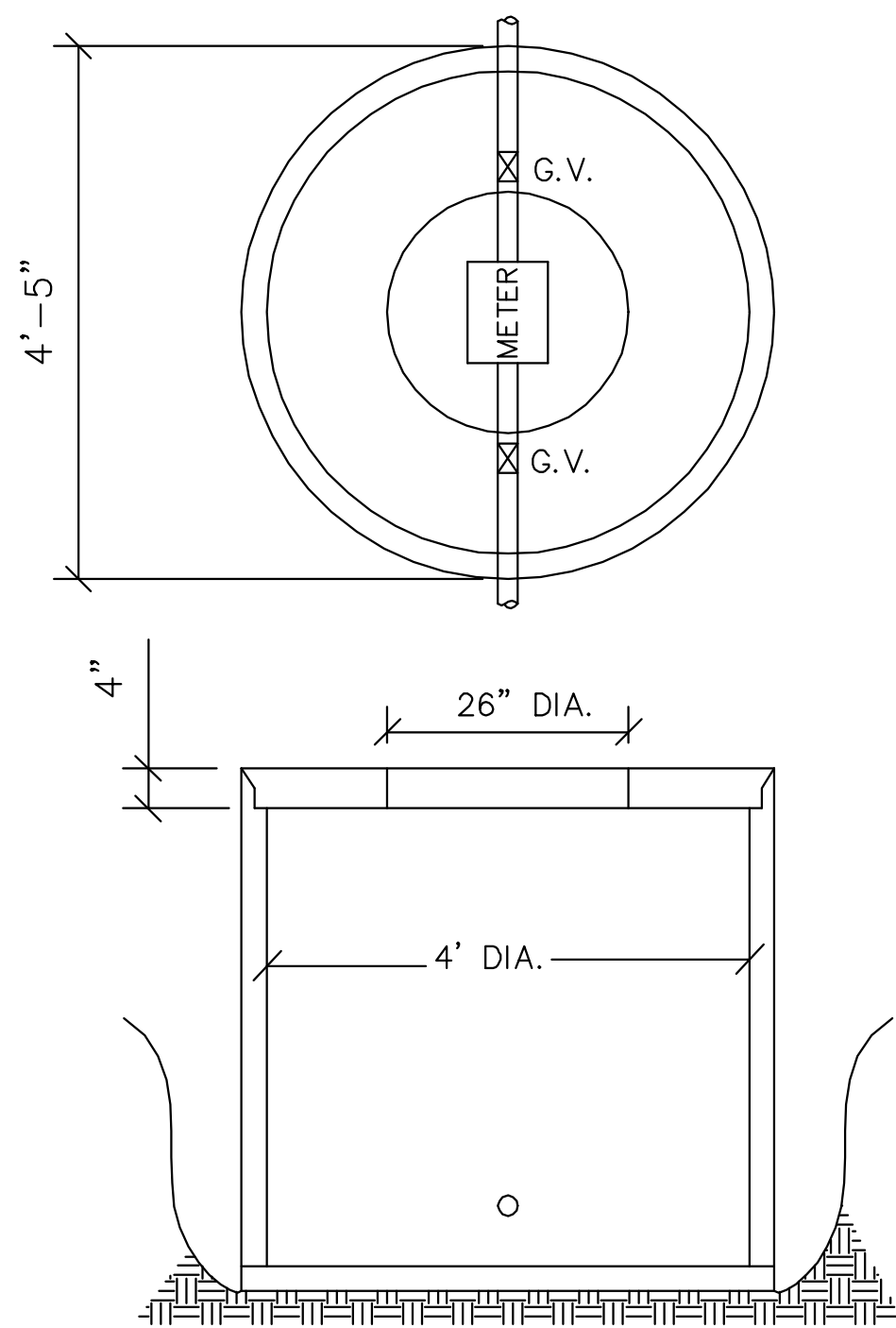
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Client:	Town of Cumberland 290 Tuttle Road, Cumberland, Me 04021

Drawing No.
1 OF 2

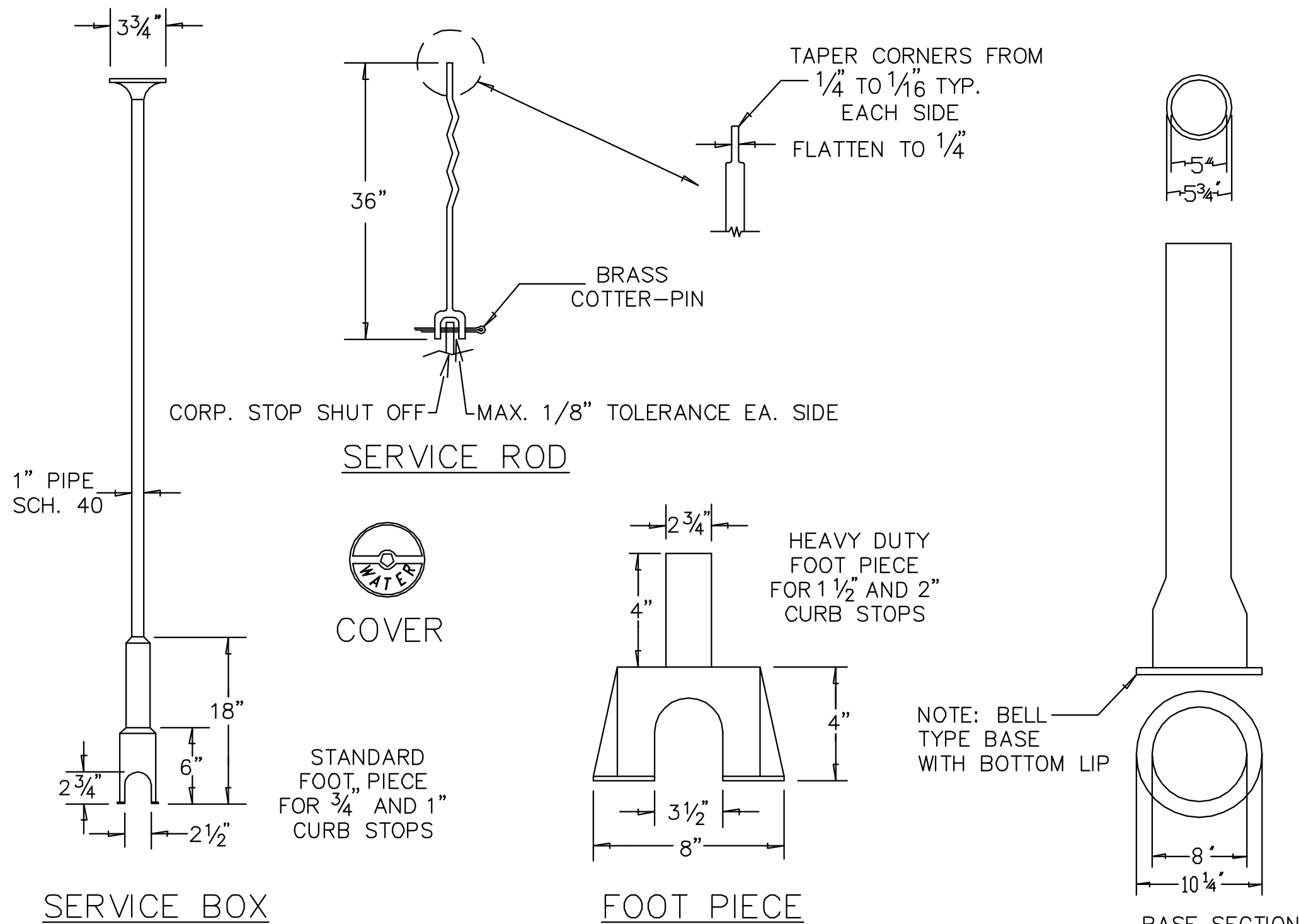




TYPICAL SERVICE CONNECTION



TYPICAL METER PIT



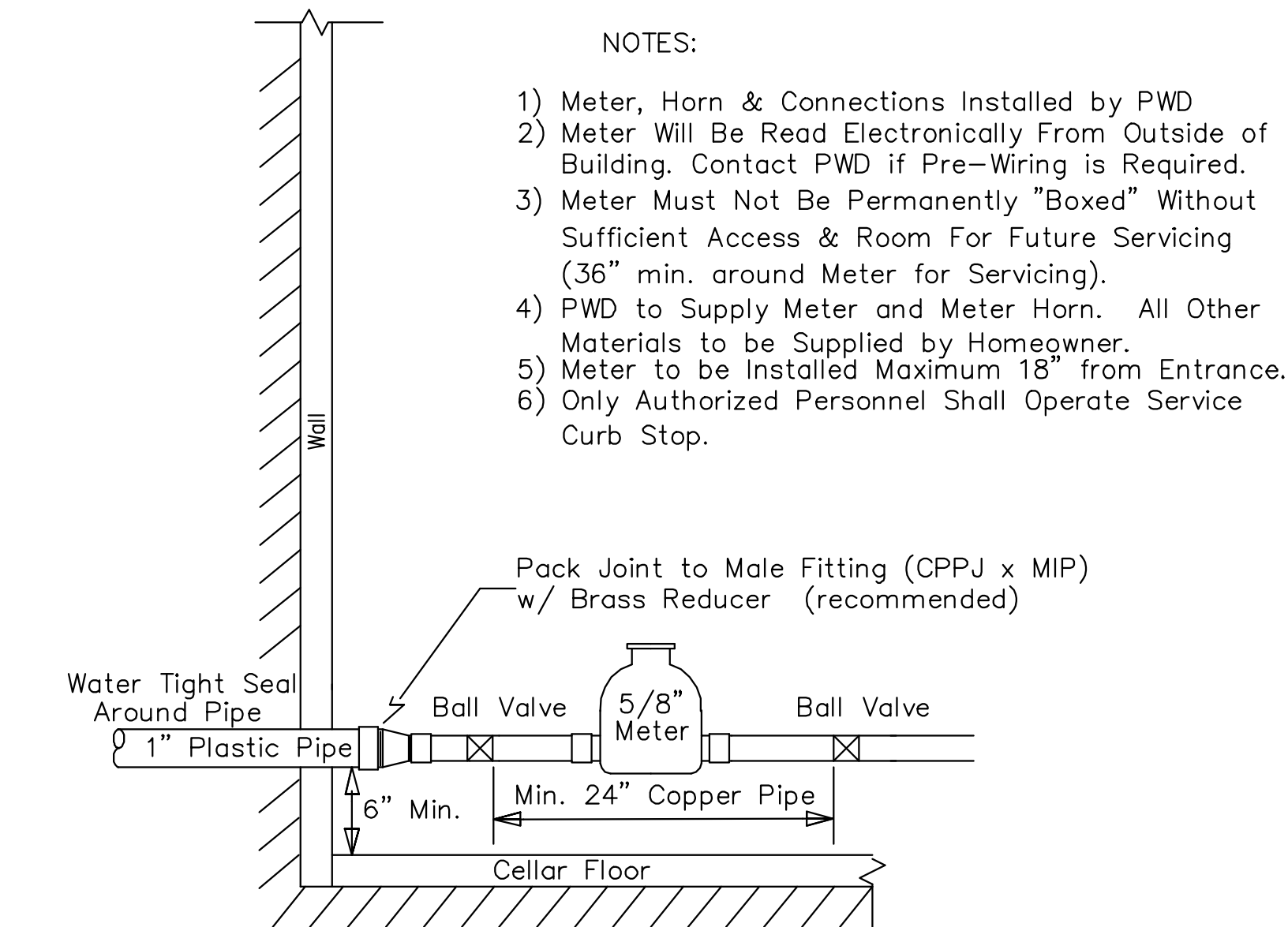
NOTE : ANY EXTENSION OF SERVICE BOX REQUIRES:
1) 1" FEMALE IRON PIPE COUPLING
2) 1" THREADED PIPE
(THIS IS TO BE A NON-WELDED, TWO PIECE ARRANGEMENT. SLIP ON ADAPTERS ARE NOT PERMISSIBLE.)

5/8" TO 2" METERS

- METER BOX
- 1) TO BE INSTALLED AND SUPPLIED BY OWNER
 - 2) MINIMUM 4'-0" DIAMETER CONC. M.H. W/ CEMENT BASE
 - 3) WATER METER TO HAVE 5'-6" OF COVER AND IS TO BE SUPPLIED BY P.W.D.
 - 4) OWNER IS TO SUPPLY 2 VALVES INSIDE OF PIT (MINIMUM SEPARATION OF 2'-0")
 - 5) COPPER PIPE REQUIRED THRU METER PIT

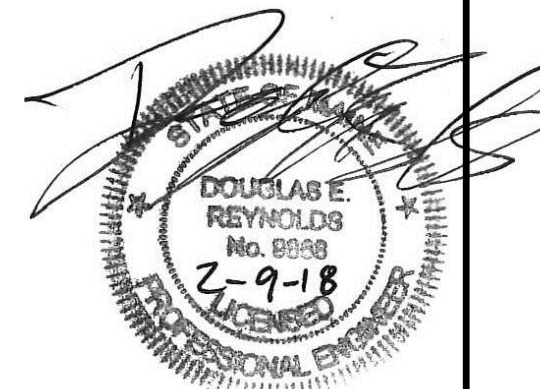
- COVER PLATE
- 1) COVER MUST WEIGH LESS THAN 60 lbs.
 - 2) MINIMUM SIZE OF COVER WILL BE 28" DIAMETER.
 - 3) IF STEEL PLATE IS USED, TREAT WITH A COAT OF RUST INHIBITING PAINT.

- NOTES
- 1) THIS PIT IS TO BE PLACED ON PRIVATE PROPERTY NEAR THE STREET LINE.
 - 2) THIS TYPICAL PIT WAS NOT DESIGNED FOR ANY TRAFFIC LOAD
 - 3) THE PIT CAN BE ORDERED THRU OTHERS WITH SPECIAL DETAILS SUCH AS LARGER M.H. COVERS, ETC.
 - 4) THIS PIT WILL HOUSE UP TO TWO 5/8", 3/4", OR 1" METERS



TYP. HORIZONTAL METER SET

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Rev.	Date	Revision

BIDDING PURPOSES	2/9/18	DER
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Drawing Name:	Water Details
Project:	Mill Road Culvert Replacement Cumberland, Me
Client:	Town of Cumberland 290 Tuttle Road, Cumberland, Me 04021