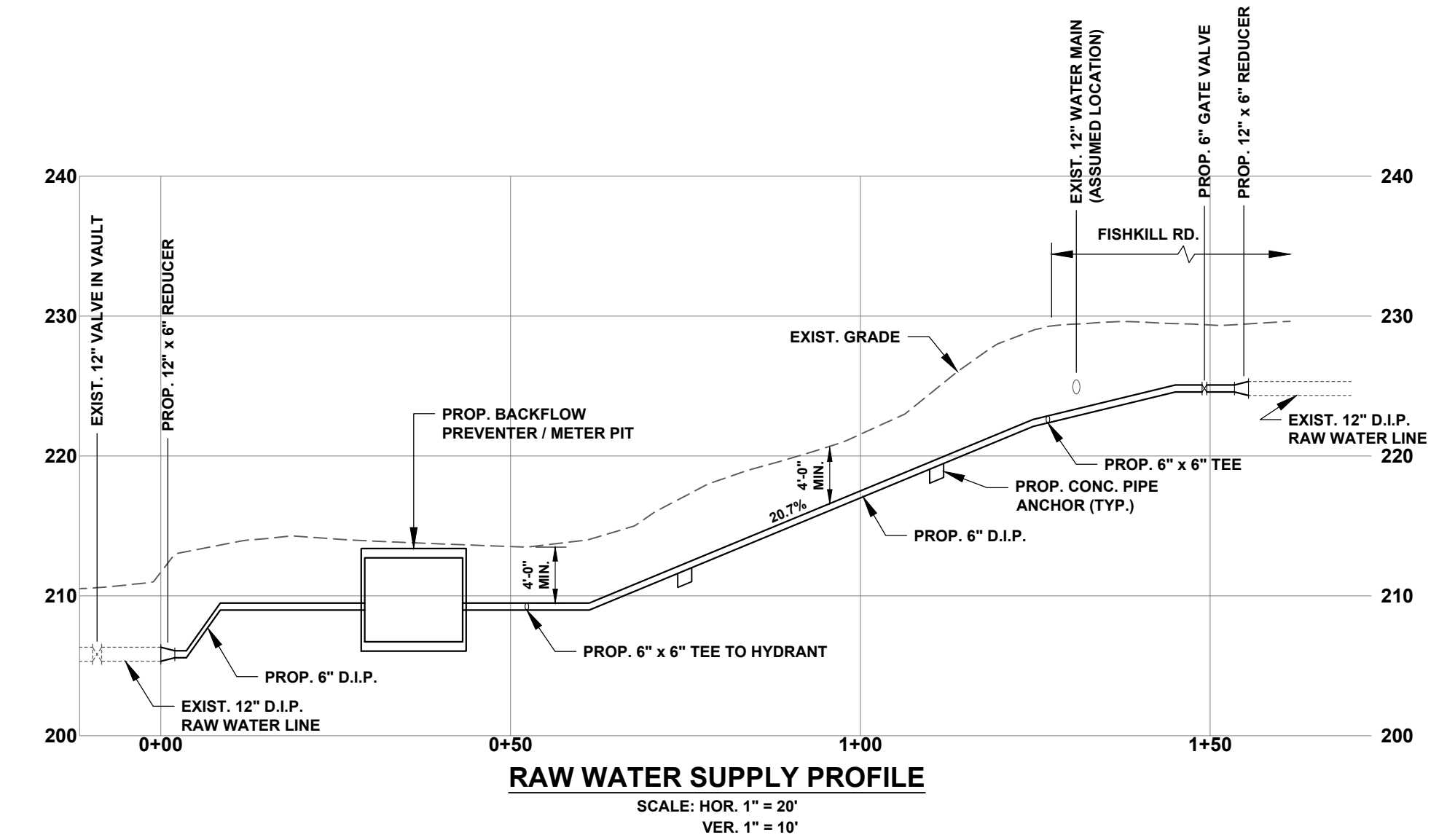


GENERAL NOTES

- All work and materials shall be in accordance with these plans, specifications, any revisions thereto, and the rules and regulations of the Village of Cold Spring, Town of Philipstown, and the City of New York Department of Environmental Protection (NYCDEP).
- The subsurface information shown hereon is not guaranteed as to accuracy or completeness. The Contractor shall verify the location of all existing utility lines whether in public right-of-way, in easements, or in private property prior to starting any excavation and shall be responsible for the same. The Contractor shall be responsible for contacting the Underground Facilities Protective Organization, pursuant to N.Y.S. Law, 16 NYCRR Code 753.
- The Contractor shall be responsible for the relocation of any utility service line or valve which is in interference with the proposed work.
- Existing trees shall be preserved and protected wherever possible and shall only be removed with the approval of the Engineer. Tree roots shall be avoided wherever possible. Where tree roots cannot be avoided, they shall be cut cleanly. Tree roots shall be kept moist while trenches are open.
- The Contractor shall verify all existing and proposed elevations in the field.
- The maintenance and protection of traffic schemes, both pedestrian and vehicular, shall be the responsibility of the Contractor. Access to all commercial, institutional and residential parking facilities shall be maintained at all times. A safe means of pedestrian access to and from all points within the contract limit shall be provided. The Contractor must submit traffic maintenance and staging schemes in writing to the Engineer for approval. All traffic maintenance devices, including, but not limited to, temporary signs, barricades, steel plates, lights and warning signals, shall be constructed and displayed in accordance with the rules and regulations of the Village of Cold Spring and the Federal MUTCD.
- The Contractor shall provide the Engineer with a telephone number of the person responsible in the case of an emergency, 24 hours a day, 7 days a week.
- All damage to public or private facilities caused by the Contractor's operation shall be repaired to the satisfaction of the Owner at the Contractor's expense.
- Trenches shall not be left open overnight or unattended. At the close of each workday the Contractor shall fill or cover trenches with steel plates to the satisfaction of the Engineer.
- The Contractor shall submit shop drawings for all works to the Engineer. No construction shall be allowed until the shop drawings are approved.
- The Contractor shall comply with O.S.H.A. Standard 29 CFR - Part 1926.650, .651 and .652 for all excavations.
- Refuse from demolition shall become the property of the Contractor. It shall be the Contractor's responsibility to dispose of all construction refuse legally.
- The Contractor shall prevent the formation of any low spots where water can collect behind new curb or sidewalk and any possible redirection of runoff onto private property and shall take whatever corrective measures are necessary. The Contractor is responsible, at no cost to the Owner, to correct any deleterious water ponding areas.
- Existing pavement shall be sawcut in a straight line where it is to be bounded by new pavement.
- The pavement and subbase thicknesses noted on these plans are after compaction.
- Fill material shall be free from organic matter, loam and frozen material. Soft or spongy areas after compaction shall be removed, the pocket drained and refilled with select material.
- All existing site features, including, but not limited to, pavement, curbing, grass, landscaping, piping, utility lines, pavement markings, walls, fencing, and structures, disturbed or damaged by construction shall be restored by the Contractor to a condition equal to or better than those currently existing and as directed by the Engineer.
- Disturbed grass or earth areas shall be provided with 4 inches minimum of topsoil and seeded or sodded as described in the specifications.
- The Contractor shall not import fill material on to the NYCDEP property without prior review and approval.
- Prior to installing the new meter, the Contractor shall provide manufacturer's cutsheets and/or specifications to the NYCDEP for review and approval.
- All Contractor and Sub-contractor employees are required to have NYCDEP security clearance prior to entering or doing work on NYCDEP property.
- The Contractor is not permitted to operate the existing 12-inch NYCDEP valve and shall coordinate with the NYCDEP as necessary to open and close the valve.
- The Contractor shall be responsible for maintaining and restoring the NYCDEP gravel access road during construction.



SITE 1 PLAN

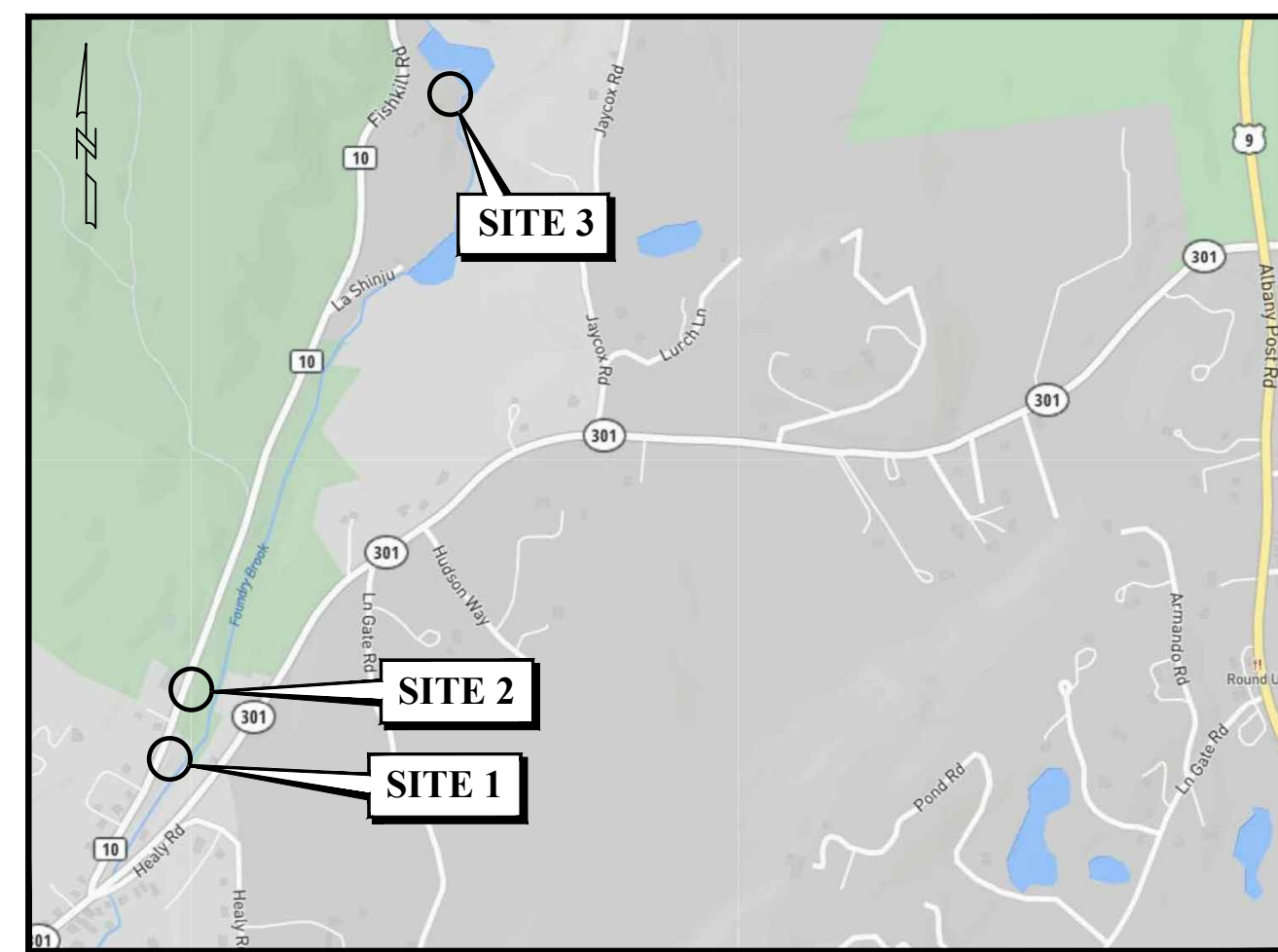


LEGEND

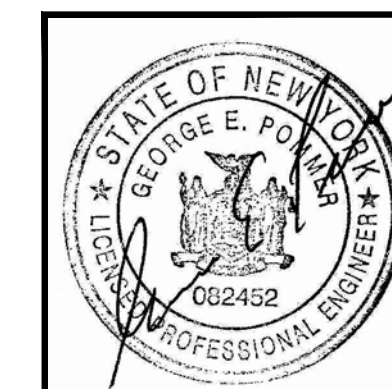
- EXIST. PROPERTY LINE (PER TAX MAP)
- - - EXIST. 100 YEAR FLOOD BOUNDARY
- - - EXIST. CONTOUR LINE
- W — EXIST. WATER MAIN
- ⊗ EXIST. WATER VALVE
- - - EXIST. RAW WATER SUPPLY MAIN
- OHW — EXIST. OVERHEAD WIRE(S)
- EXIST. UTILITY POLE
- W — PROP. RAW WATER MAIN
- ⊗ PROP. GATE VALVE & VALVE BOX
- ⊔ PROP. END CAP
- ⊔ PROP. REDUCER
- PROP. HYDRANT
- x - x - PROP. CHAIN LINK FENCE
- SF - SF - PROP. SILT FENCE

EROSION CONTROL NOTES

- All erosion control measures downslope of the proposed work area shall be in place as shown on the erosion control drawings prior to the start of construction.
- Final grades shall be established as quickly as possible and topsoiled and seeded to provide a turf which will stabilize slopes and prevent erosion.
- Slopes to remain open during construction shall be protected with mulch and staked tobacco netting.
- Catch basins and drain inlets shall be protected as shown on the erosion control drawings throughout the construction period and until all disturbed areas are thoroughly stabilized.
- Soil stockpiles shall not be allowed on steep slopes, in drainage swales or in wetland areas. Soil stockpiles shall be surrounded with silt fencing and seeded.
- Erosion control measures shall be inspected after each rainfall and shall be cleaned, repaired or replaced as required.
- The municipality's wetland consultant, engineer, or a N.Y.S.D.E.C. or N.Y.C.D.E.P. field representative may require additional erosion control measures if deemed appropriate to mitigate unforeseen siltation and erosion of disturbed soils.



LOCATION MAP
N.T.S.



REV.	DATE	DESCRIPTION
4	11/18/22	ISSUED FOR BID
3	10/6/22	PER NYCDEP
2	9/21/22	PER NYCDEP
1	9/15/22	PER NYCDEP & VILLAGE

TITLE	SITE 1 PLAN
PROJECT	PROPOSED VILLAGE OF COLD SPRING EMERGENCY INTERCONNECTION TO THE CATSKILL AQUEDUCT
	FISHKILL ROAD T.M. #38.14-1-17
	TOWN OF PHILIPSTOWN, PUTNAM COUNTY, NEW YORK

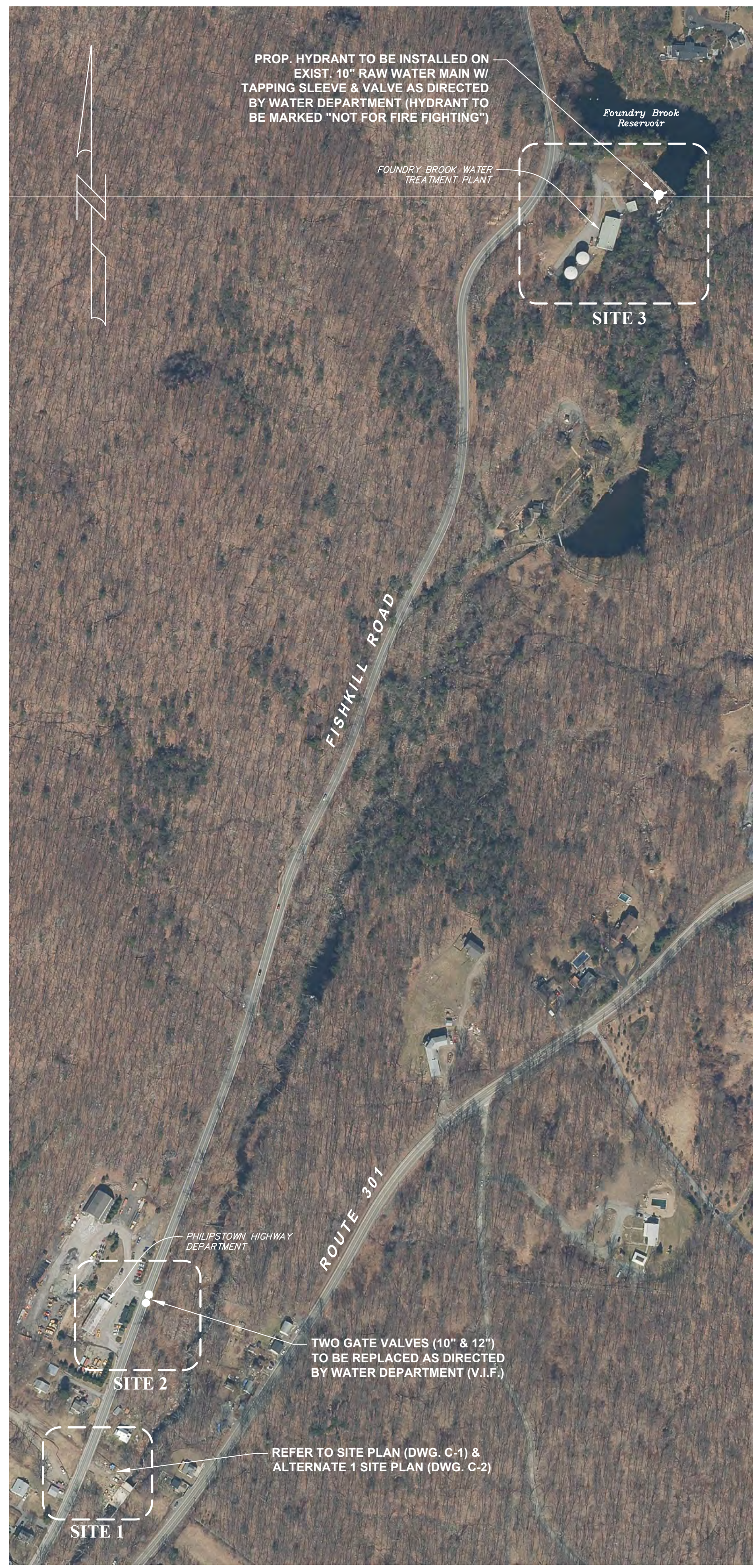
UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW. THIS PLAN IS NULL AND VOID FOR CONSTRUCTION PURPOSES WITHOUT THE SIGNATURE AND SEAL OF THE DESIGN ENGINEER.

JAMES J. HAHN
ENGINEERING, P.C.

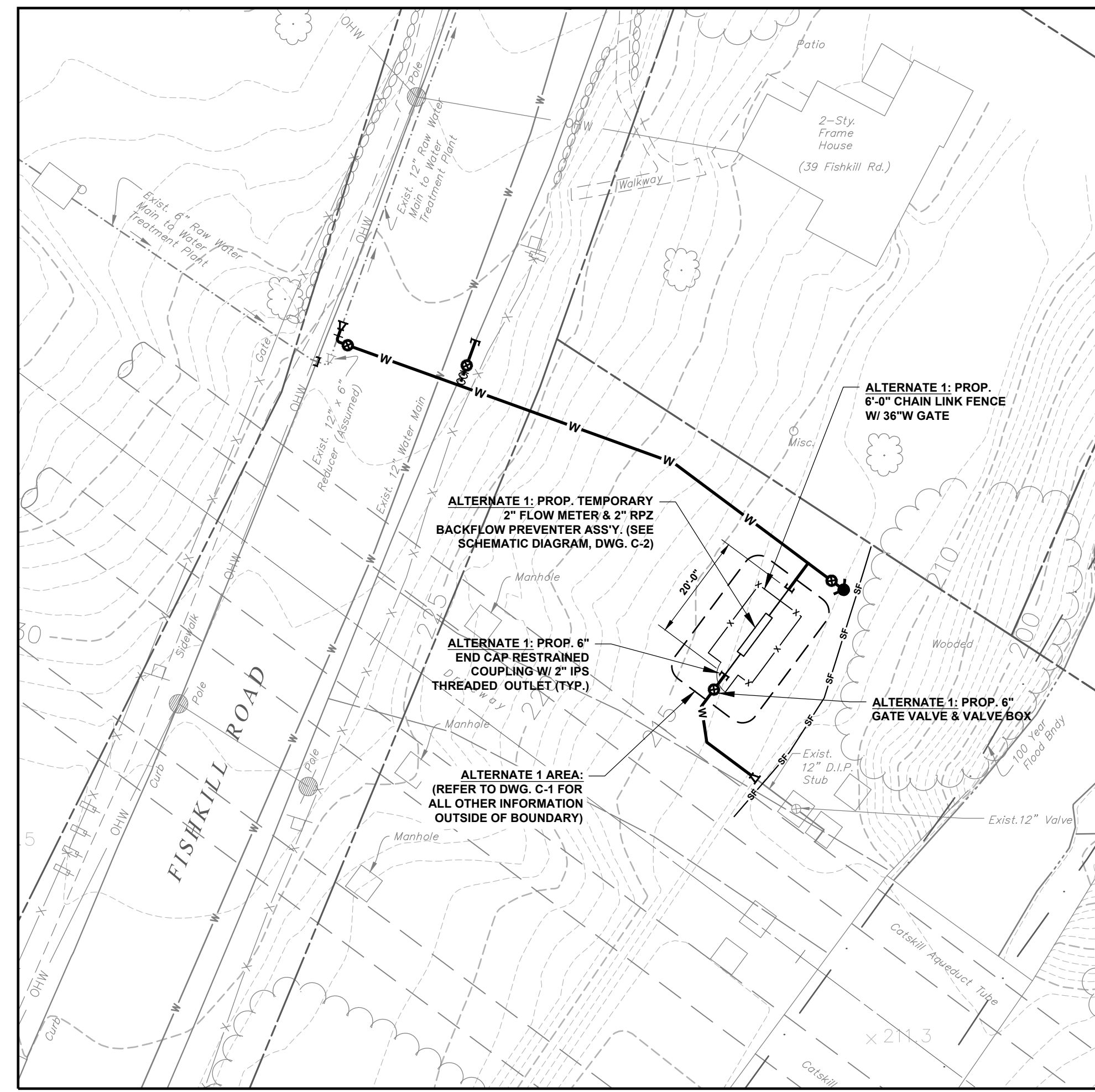
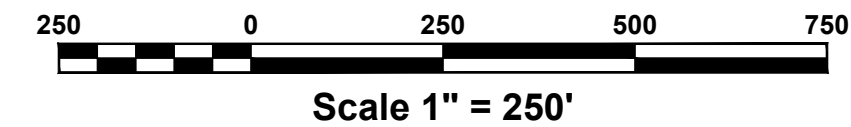
Putnam Business Park
1689 Route 22
Brewster, New York 10509
Tel: (845) 278-2220

SCALE	1" = 20'
DATE	9/8/22
DRAWING NO.	C-1
SHEET NO.	1 of 4

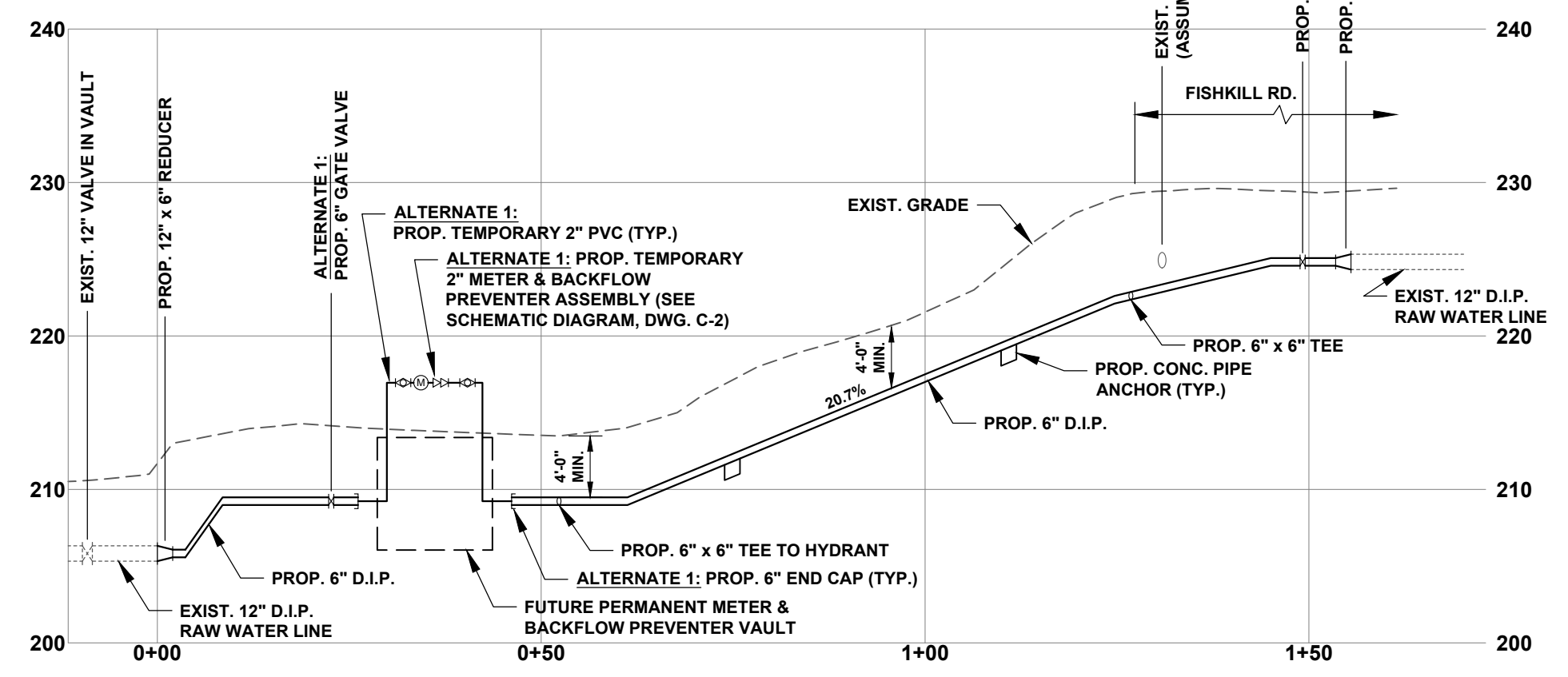
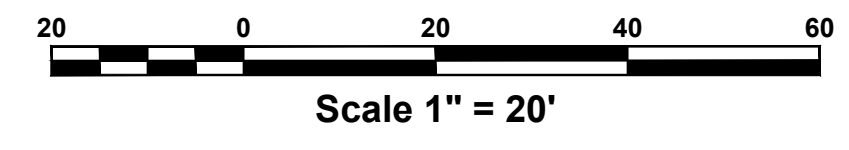
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AERIAL PLAN - SITES 2 & 3



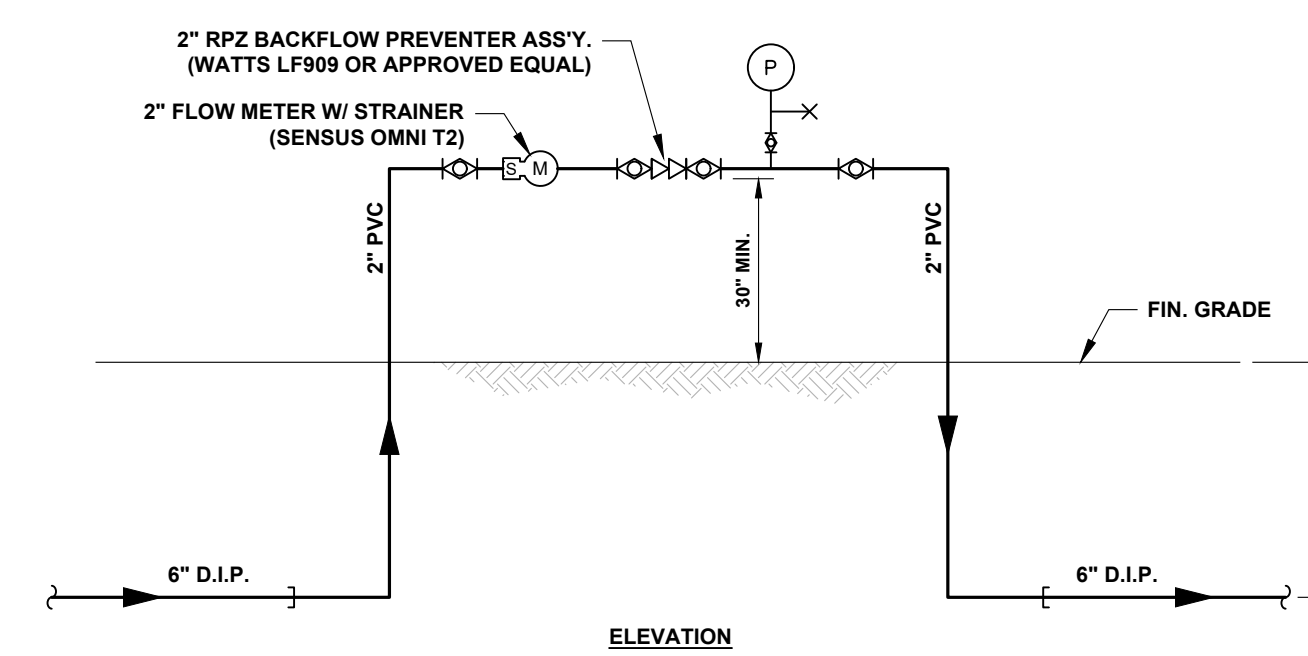
ALTERNATE 1 SITE PLAN



ALTERNATE 1 - RAW WATER SUPPLY PROFILE

SCALE: HOR. 1" = 20'
VER. 1" = 10'

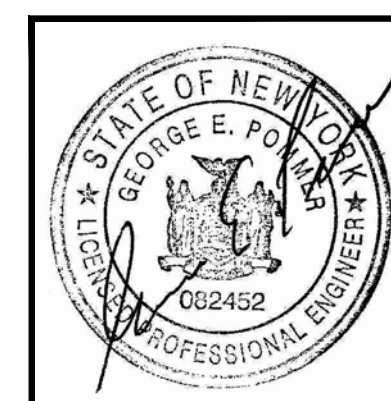
- LEGEND**
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 - EXIST. 100 YEAR FLOOD BOUNDARY
 - 220 --- EXIST. CONTOUR LINE
 - W --- EXIST. WATER MAIN
 - ⊙ EXIST. WATER VALVE
 - EXIST. RAW WATER SUPPLY MAIN
 - OHW --- EXIST. OVERHEAD WIRE(S)
 - EXIST. UTILITY POLE
 - W --- PROP. RAW WATER MAIN
 - ⊙ PROP. GATE VALVE & VALVE BOX
 - ⌊ PROP. END CAP
 - ⌊ PROP. REDUCER
 - x-x-x- PROP. CHAIN LINK FENCE
 - sf-sf-sf- PROP. SILT FENCE



ALTERNATE 1 - TEMPORARY FLOW METER & BACKFLOW PREVENTER ASSEMBLY - SCHEMATIC DIAGRAM

NO SCALE

- LEGEND**
- PROP. PROCESS LINE
 - ⊙ PROP. BALL VALVE
 - ⌊ PROP. RPZ BACKFLOW PREVENTER
 - ⊙ PROP. FLOW METER
 - ⌊ PROP. END CAP
 - ⊙ PROP. PRESSURE GAUGE
 - x- PROP. SMOOTH-NOSE SAMPLING TAP



REV.	DATE	DESCRIPTION
4	11/18/22	ISSUED FOR BID
3	10/6/22	PER NYCDEP
2	9/21/22	PER NYCDEP
1	9/15/22	PER NYCDEP & VILLAGE

TITLE	SITES 2 & 3 AND ALTERNATE 1 PLAN
PROJECT	PROPOSED VILLAGE OF COLD SPRING EMERGENCY INTERCONNECTION TO THE CATSKILL AQUEDUCT
	FISHKILL ROAD T.M. #38.14-1-17
	TOWN OF PHILIPSTOWN, PUTNAM COUNTY, NEW YORK

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 2209 (2) OF THE NEW YORK STATE EDUCATION LAW. THIS PLAN IS NULL AND VOID FOR CONSTRUCTION PURPOSES WITHOUT THE SIGNATURE AND SEAL OF THE DESIGN ENGINEER.

JAMES J. HAHN ENGINEERING, P.C.

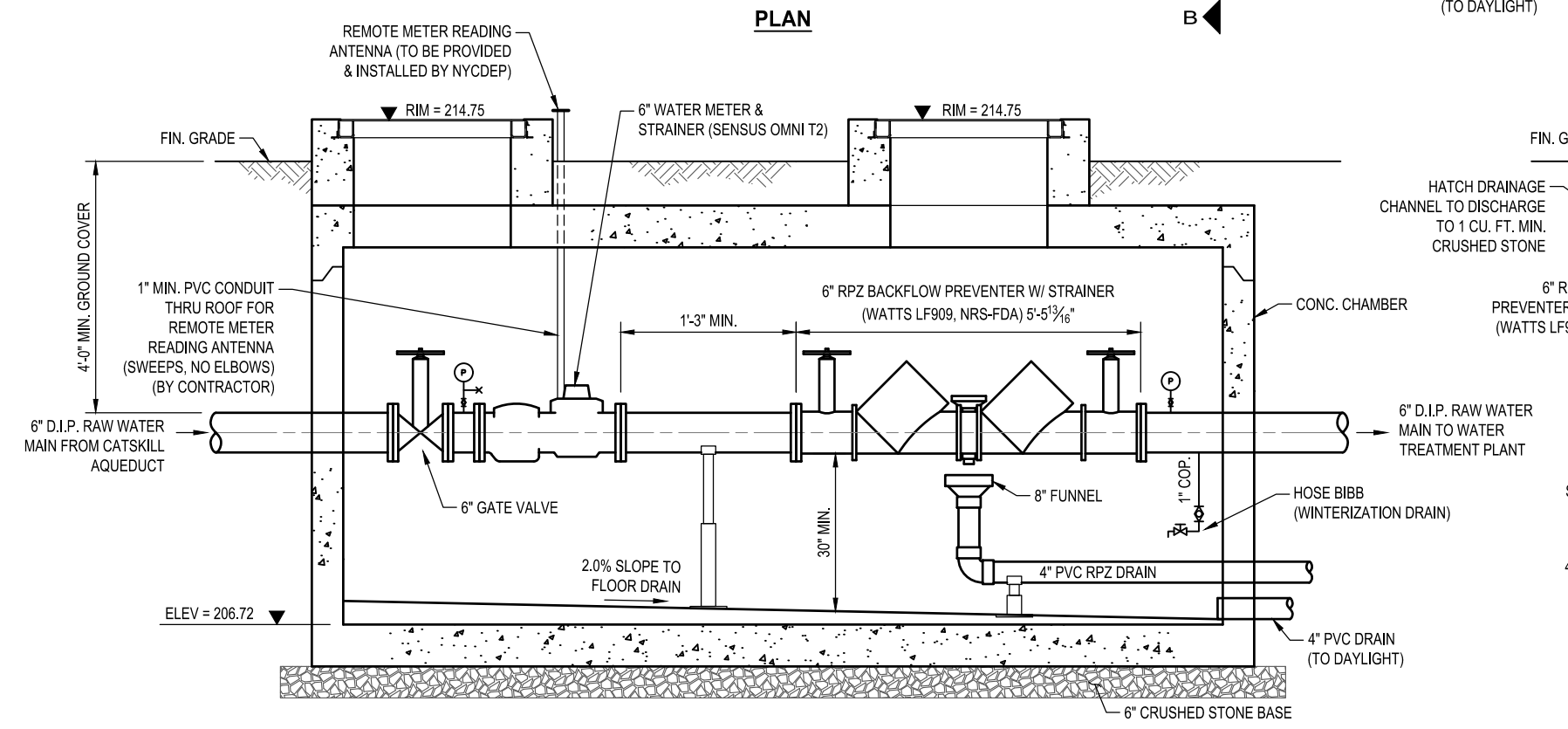
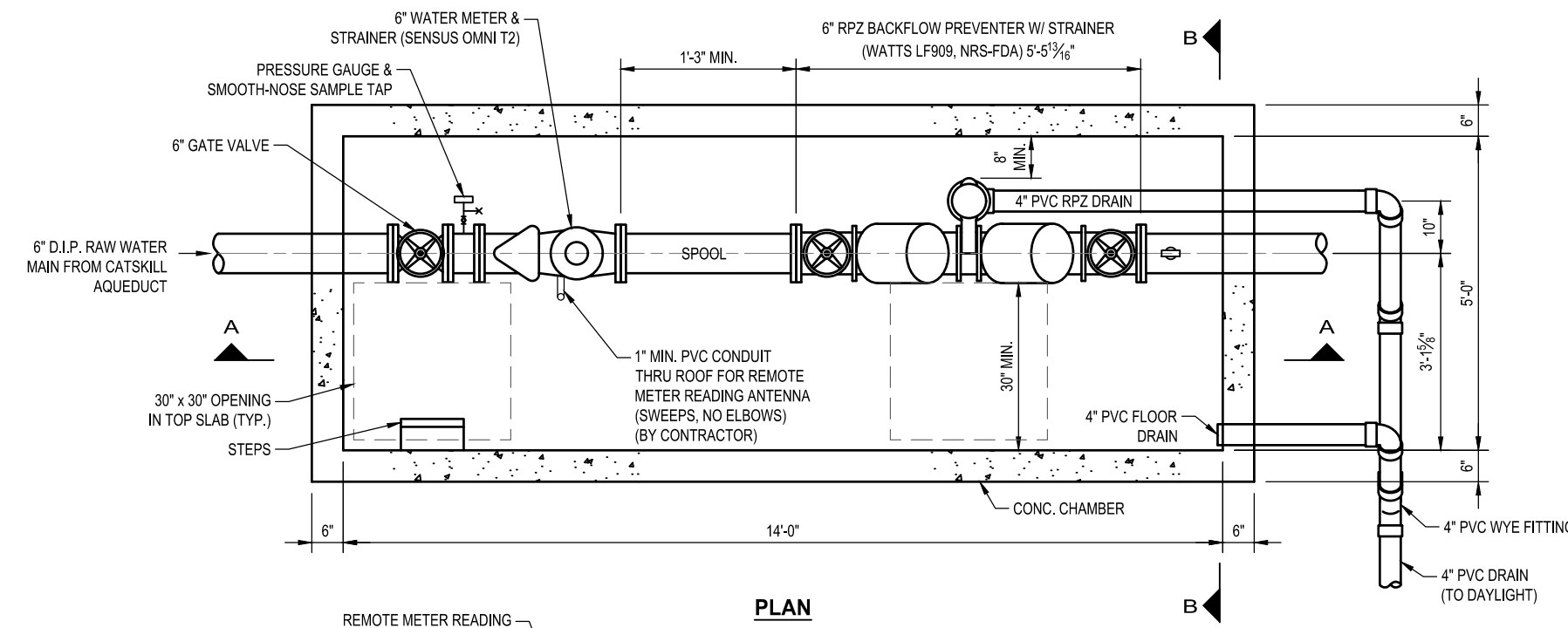
Putnam Business Park
1689 Route 22
Brewster, New York 10509
Tel: (845) 278-2220

SCALE	DATE
AS NOTED	9/8/22
DRAWING NO.	SHEET NO.
C-2	2 OF 4

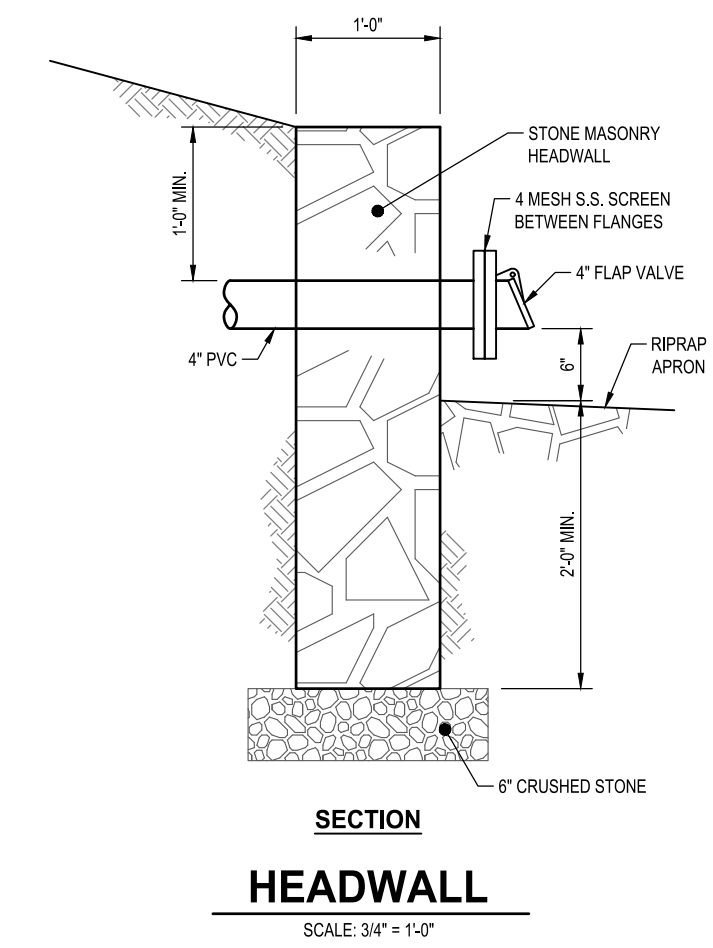
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WATER MAIN NOTES

- All work and materials shall be in accordance with the rules and regulations of the municipality, the Putnam County Department of Health, and the New York State Department of Health.
- Only details relevant to the specific public water supply improvements shown hereon are applicable to the water supply permit issued by the Putnam County Department of Health for this project.
- The municipal water department shall perform all water main shutdowns and reopenings necessary for the proposed work.
- The duration of water main shutdowns shall be less than 4 hours. The Contractor shall notify the Engineer and municipal water department if water main shutdowns greater than 4 hours will be required.
- All newly installed water main, prior to being placed in service, shall be successfully pressure and leakage tested in accordance with the latest edition of A.W.W.A. Specification Section C-600. The Putnam County Department of Health shall be notified 48 hours in advance of the water main pressure test.
- Water mains shall have a minimum ground cover of four feet.
- New water main shall be cement-lined ductile iron pipe with gasketed bell and spigot joints.
- Gate valves shall be resilient wedge type (Mueller A-2360 or approved equal).
- Fittings, tees and crosses shall be ductile iron (class 350).
- Deflection of the water main joints shall not exceed 50 percent of the maximum deflection recommended by the manufacturer or as ordered by the Engineer.
- Gate valves with mechanical joints and retainer glands shall be rodded to adjacent tees or crosses. Tie rods may be eliminated if flanged valve/fitting assemblies are used. Gate valves shall be rodded to adjacent water main with split clamps.
- The Contractor shall submit to the Engineer, shop drawings of curb valves, corporation stops, gates valves, valve boxes, split clamps, couplings, fire hydrants and pipe materials for approval prior to construction.
- Where a minimum horizontal separation of 10 feet between the proposed water main and an existing storm pipe, drainage structure, sanitary sewer pipe, or sanitary manhole is not possible, the water main shall be encased, 6 inches minimum all around, with controlled low-strength material (K-crete) and shall have a separation distance of not less than 5 feet from a catch basin or drainage inlet. Separation shall be measured from the outside edge of the storm/sewer pipe or structure (verify in field) to the outside edge of the water main.
- All vertical and horizontal water main bends, tees, reducers, and plugs/end caps, require concrete thrust blocks. See schedule on drawings.
- The Contractor shall provide the Engineer with "as-built" drawings of the completed work, prepared as described in the Specifications.



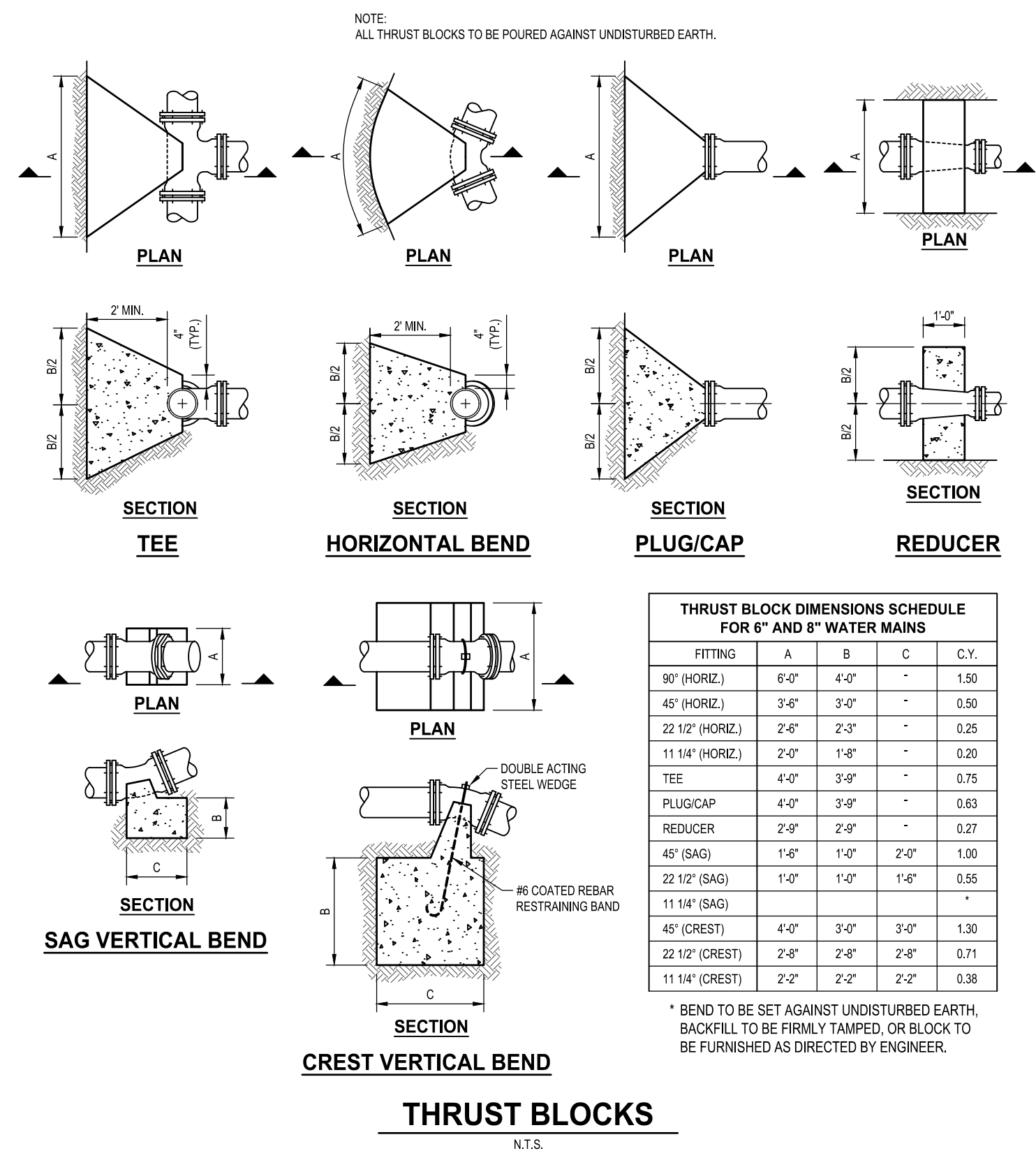
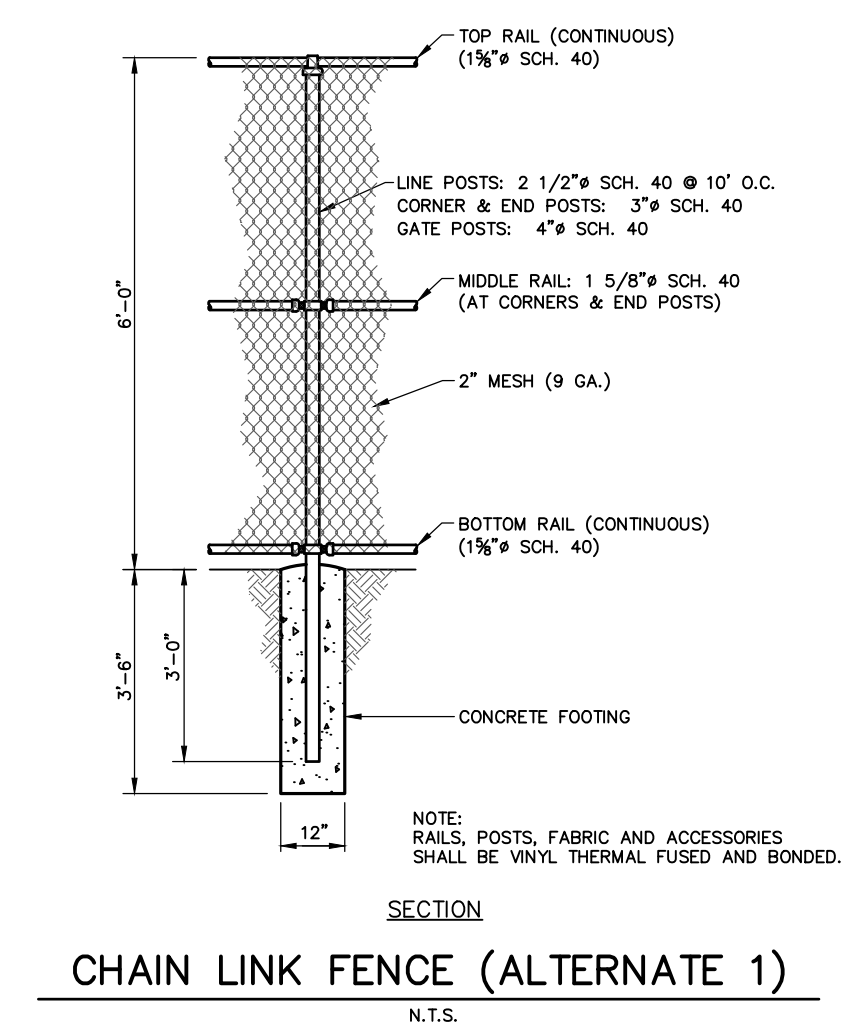
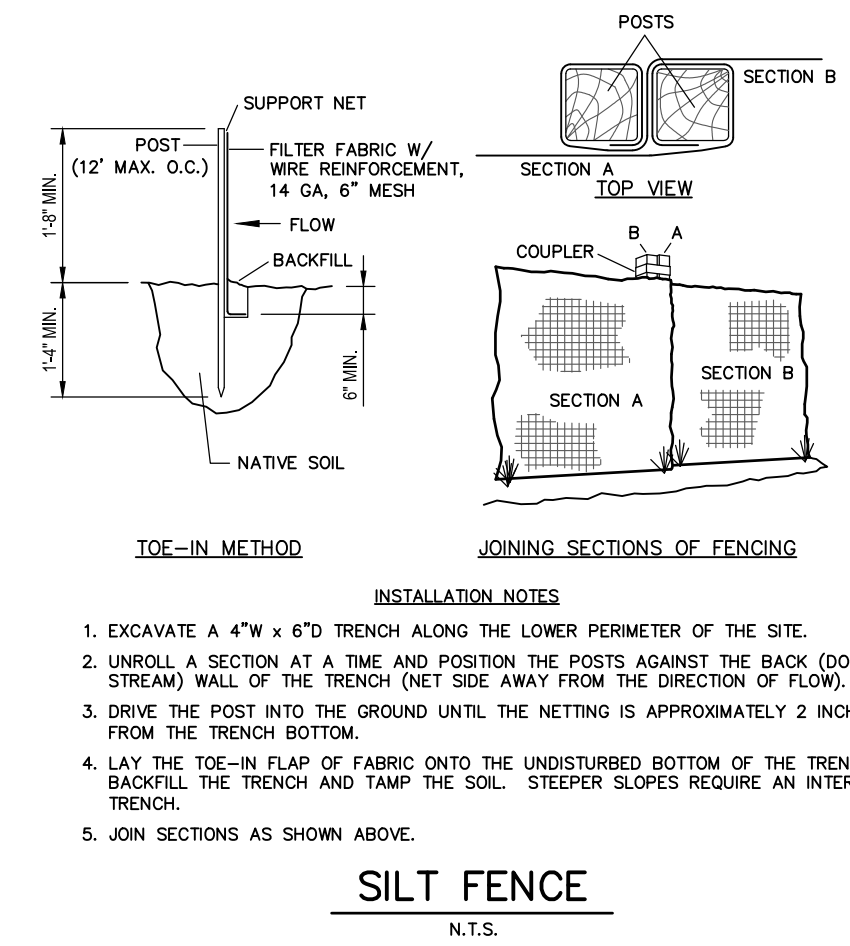
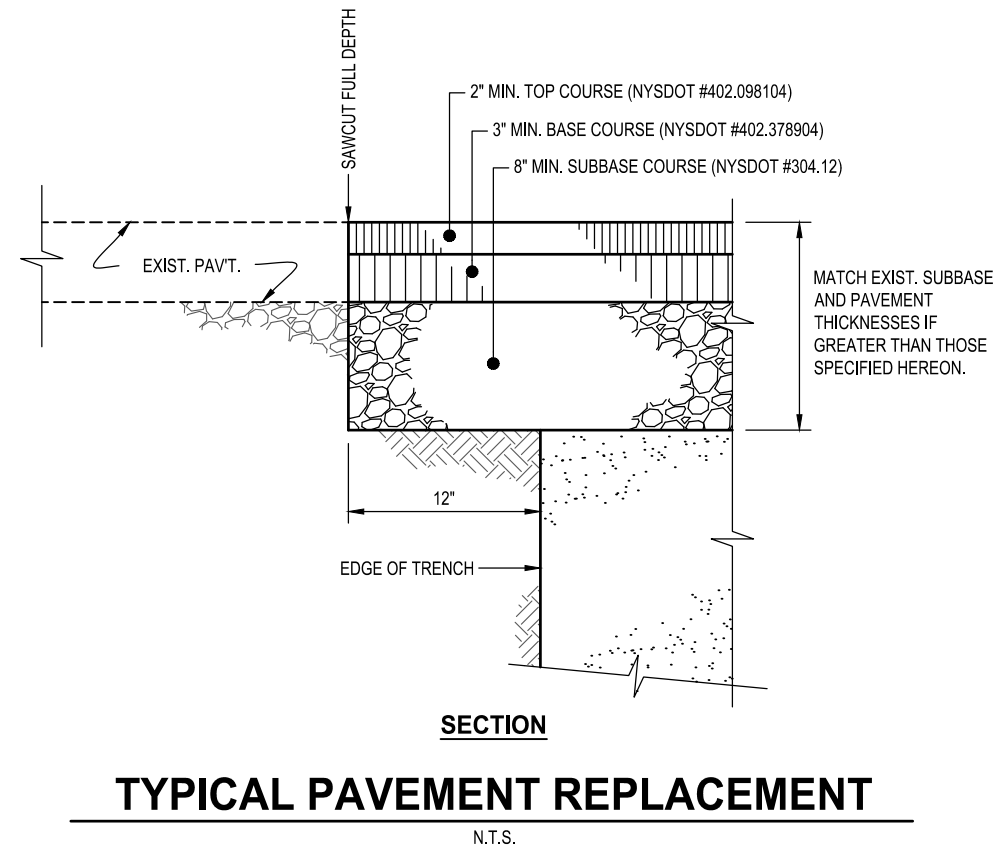
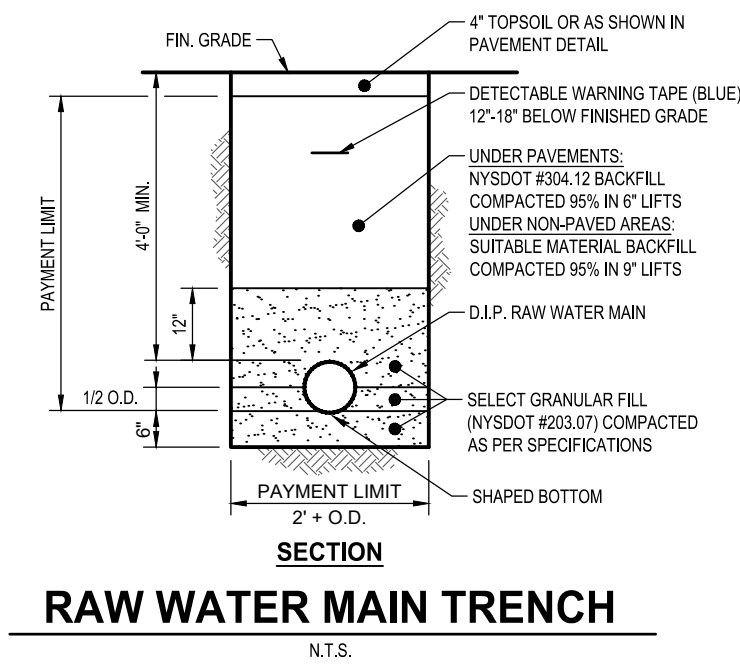
BACKFLOW PREVENTER / METER PIT
SCALE: 3/8" = 1'-0"



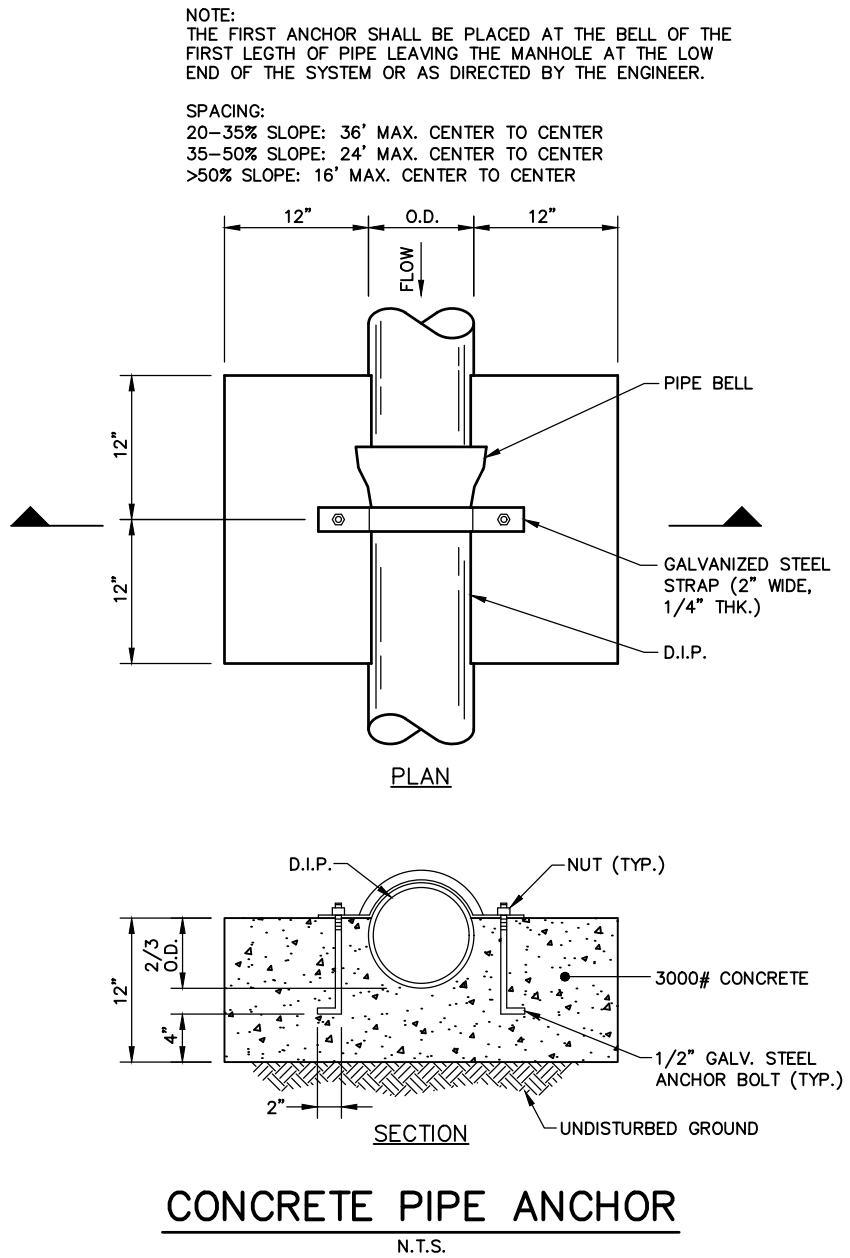
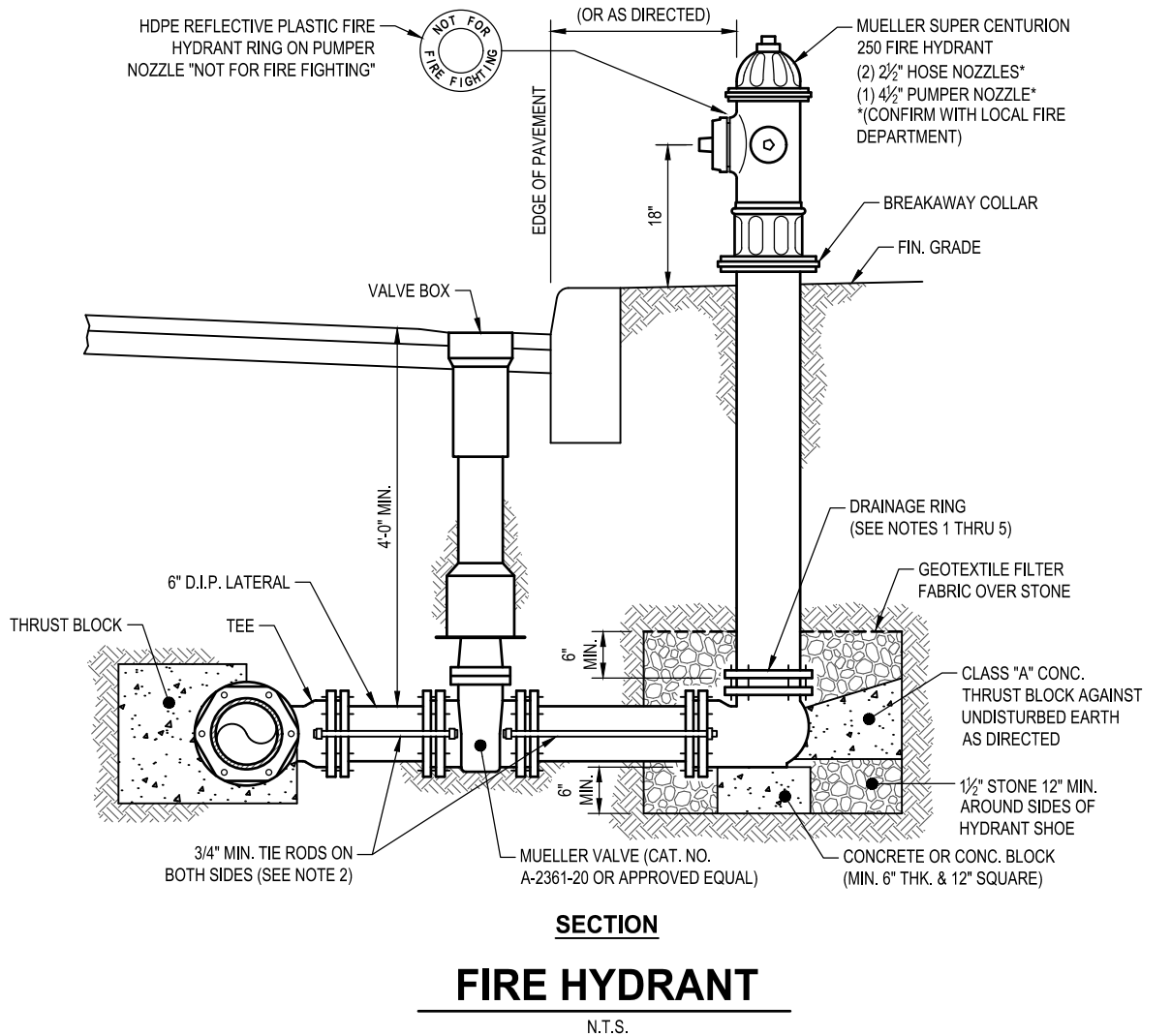
BACKFLOW PREVENTER NOTES

- The backflow prevention (BFP) device shall be installed as shown on the approved plans. Installation of the BFP device shall be such as to provide adequate lighting and protection from freezing, and shall be above the highest possible flood level. The installation must be in conformance with the requirements of the New York State Department of Health (NYSDOH), the Putnam County Department of Health (PCDOH), the local water supplier and local plumbing codes. Deviations from the approved plans are not allowed without the written approval of the local water supplier.
- The BFP device must be from the approved list of the NYSDOH.
- Necessary pipe supports/hangers not shown hereon shall be supplied by the Contractor wherever required.
- The backflow preventer assembly shall be inspected and tested annually by a New York State Certified Backflow Preventer Tester. Additionally, an initial test of the device shall be performed by such a tester prior to the device being placed into service.
- Maintenance of the BFP device shall be the responsibility of the owner. The BFP device must be rebuilt every five years.
- It is unlawful to tamper with or install any bypass around the BFP device.
- Drainage and pumping capacity must be able to handle the maximum relief discharge of the BFP device based upon the manufacturer's relief valve discharge curve. Direct drain connections to sanitary sewers are prohibited.
- The BFP device shall be installed facing forward, with adequate access to the test outlets. A minimum of 30 inches clear space shall be maintained between the front side of the BFP device and the nearest wall or obstruction.
- The BFP device will cause a decrease in pressure. See manufacturer's flow curves for pressure losses.
- The water supply system shown hereon is seasonal only. The backflow preventer, meter, and piping and valves within the underground chamber shall be drained during the off-season. The backflow preventer shall be tested by a New York State Certified Backflow Tester prior to the device being placed back into service.
- Any hose bibbs shall be connected to the supply line downstream of the backflow preventer.
- The backflow preventer shall be installed above the 100-year flood plain.
- Where the distance between the water meter and the backflow preventer is greater than 10'-0", all exposed piping must be labeled every 5'-0" displaying the words "FEED TO BACKFLOW PREVENTER, DO NOT TAP".
- Adequate heat to prevent freezing and light for testing will be provided. (See Note 10).

	DETAILS & NOTES	
	PROPOSED VILLAGE OF COLD SPRING EMERGENCY INTERCONNECTION TO THE CATSKILL AQUEDUCT FISHKILL ROAD T.M. #38.14-1-17 TOWN OF PHILIPSTOWN, PUTNAM COUNTY, NEW YORK	
UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 2209 (2) OF THE NEW YORK STATE EDUCATION LAW. THIS PLAN IS NULL AND VOID FOR CONSTRUCTION PURPOSES WITHOUT THE SIGNATURE AND SEAL OF THE DESIGN ENGINEER.	JAMES J. HAHN ENGINEERING, P.C. Putnam Business Park 1689 Route 22 Brewster, New York 10509 Tel: (845) 278-2220	SCALE: AS NOTED DATE: 9/8/22 DRAWING NO.: C-3 SHEET NO.: 3 OF 4



- NOTES:
- HYDRANT DRAINS SHOULD BE PLUGGED. WHEN THE DRAINS ARE PLUGGED THE BARRELS MUST BE PUMPED DRY AFTER USE DURING FREEZING WEATHER.
 - WHERE HYDRANT DRAINS ARE NOT PLUGGED, A GRAVEL POCKET OR DRY WELL SHALL BE PROVIDED UNLESS THE NATURAL SOILS WILL PROVIDE ADEQUATE DRAINAGE.
 - HYDRANT DRAINS SHALL NOT BE CONNECTED TO OR LOCATED WITHIN 10 FEET OF SANITARY SEWERS, STORM SEWERS, OR STORM DRAINS.
 - HYDRANT DRAINS, WHERE ALLOWED, MUST BE ABOVE THE SEASONAL GROUNDWATER TABLE.
 - THE DRAINS SHALL BE PROTECTED AND FREE FROM ANY OBSTRUCTION AS DIRECTED BY THE ENGINEER.
 - PUMPER NOZZLE SHALL FACE STREET; HOSE OUTLETS SHALL BE PARALLEL TO STREET.
 - THE RODS SHALL BE COATED WITH BITUMASTIC PAINT. RODDING MAY BE ELIMINATED BETWEEN THE MAIN AND LATERAL VALVE IF A TAPPING VALVE OR HYDRANT VALVE ANCHORING TEE IS USED. THE RODS AND BOLTS TO BE MANUFACTURED BY STAR SUPPLY CORP., COLUMBUS, OHIO OR APPROVED EQUAL.



	TITLE DETAILS	
	PROJECT PROPOSED VILLAGE OF COLD SPRING EMERGENCY INTERCONNECTION TO THE CATSKILL AQUEDUCT FISHKILL ROAD T.M. #38.14-1-17 TOWN OF PHILIPSTOWN, PUTNAM COUNTY, NEW YORK	
UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 2209 (2) OF THE NEW YORK STATE EDUCATION LAW. THIS PLAN IS NULL AND VOID FOR CONSTRUCTION PURPOSES WITHOUT THE SIGNATURE AND SEAL OF THE DESIGN ENGINEER.	JAMES J. HAHN ENGINEERING, P.C. Putnam Business Park 1689 Route 22 Brewster, New York 10509 Tel: (845) 278-2220	SCALE AS NOTED C-4
REV. DATE DESCRIPTION	DATE DESCRIPTION	DATE DESCRIPTION
4 11/18/22 ISSUED FOR BID 3 10/6/22 PER NYCDEP 2 9/21/22 PER NYCDEP 1 9/15/22 PER NYCDEP & VILLAGE	9/8/22 SHEET NO.	4 OF 4

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