

Lead Service Line Replacement Program

The Village of Perry has received Grant Funding from the New York State Department of Health for the replacement of Lead Service Lines (LSL) and Galvanized Service Lines Requiring Replacement (GSLRR) throughout their Water Service Area. Minority and women-owned businesses are strongly encouraged to respond.

Services to be Provided:

The Village of Perry is seeking qualified Contractors to replace LSLs and GSLRRs identified within their water service area, as shown on the attached drawings and described in the attached specifications.

RFP Package Contents

- 1) Section 01 20 00 – Measurement and Payment.
- 2) Section 01 20 00.10 – Itemized Proposal.
- 3) Section 31 23 16.13 – Trenching.
- 4) Section 31 23 19 – Dewatering.
- 5) Section 31 25 00 – Erosion and Sedimentation Controls.
- 6) Section 32 91 13 – Soil Preparation.
- 7) Section 32 92 19 – Seeding.
- 8) Section 33 12 13 – Water Service Connections.
- 9) DWG-1 – 35 Watrous St. Service Line Replacement.
- 10) DWG-2 – 41 N. Federal St. Service Line Replacement.
- 11) DWG-3 – Water Service Replacement Detail.
- 12) DWG-4 – Water Service Trench Detail.
- 13) DWG-5 – Water Service Misc. Details.

Submission Requirements

- 1) Contact Information: Provide the complete name, address, and telephone numbers of the firm and for the persons who would be the primary contacts.
- 2) Services Capability: Provide any relevant evidence that demonstrates the capabilities of the firm to complete all requested services. If any outside subcontractors are being proposed to be used, they must be identified.
- 3) Proof of Insurance: Contractor shall provide on Acord 25 and Acord 855 and reference the project, describing the specific services to be provide, with the exception of Worker's Compensation and NYS Disability Insurance which must be provided on the approved specific form as required by the NYS Worker's Compensation Board. Village and Homeowners must be listed as additional insured.
- 4) Timeline for the work to be completed, including an estimated start and completion date.
- 5) Cost Estimate: Submit the Itemized Proposal included in this RFP package. Include in your proposal all costs associated with the work necessary to replace the service lines as described and shown on the attached drawings.

Deadline:

All required documentation must be submitted on or before Friday, May 9, 2025 at 12:00 PM to be considered. Hard Copies must be delivered to the address below:

Samantha Marcy, Village Administrator
Village of Perry
46 North Main Street
Perry, NY 14530

Questions

Questions regarding this RFP should be submitted in writing via email to spierce@villageofperry.com.

SECTION 01 20 00 – MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Water Service Replacement & Restoration.
 - 2. Defect Assessment.
 - 3. Unit Prices.
- B. Related Sections:
 - 1. Section 31 23 16.13 – Trenching.
 - 2. Section 31 23 19 – Dewatering.
 - 3. Section 31 25 00 – Erosion and Sedimentation Controls.
 - 4. Section 32 91 13 – Soil Preparation.
 - 5. Section 32 92 19 – Seeding.
 - 6. Section 33 12 13 – Water Service Connections.

1.2 Water Service Replacement and Restoration

- A. Description: Work under this item shall include all activities necessary to replace the water service line from the curb stop or reconnection point indicated on the Contract Drawings to the meter (on private property). Newly installed 1" dia. Polyethylene water service includes connection to the curb stop and costs associated with the excavation, jacking, or missiling of service under all pavements, sidewalks, and landscaping from the curb stop to the exterior face of the property owner residence and site restoration. The work shall also include extending the service through and into the owner residence, and furnishing and installing a new pressure regulator, new check valve, and new angle meter valve, and interior plumbing adaptations to reconnect the replacement service to the existing meter. The existing service and meter shall also be flushed and purged of water prior to reconnecting to the new service.
- B. Measurement and Payment
 - 1. Measurement shall be for each on inch (1") diameter water service installed complete in place and put into service in accordance with the attached drawings and specifications, manufacturer recommendations, and as ordered by the Village of Perry DPW.
 - 2. Payments shall be made at the unit price bid.

1.3 DEFECT ASSESSMENT

- A. Replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of Owner it is not practical to remove and replace the Work, Owner will direct appropriate remedy or adjust payment.

- C. The defective Work may remain, but unit sum/price will be adjusted to new sum/price at discretion of Owner.
- D. Defective Work will be partially repaired according to instructions of Owner, and unit sum/price will be adjusted to new sum/price at discretion of Owner.
- E. Individual Specification Sections may modify these options or may identify specific formula or percentage sum/price reduction.
- F. Authority of Owner to assess defects and identify payment adjustments is final.
- G. Nonpayment for Rejected Products: Payment will not be made for rejected products for any of the following reasons:
 - 1. Products wasted or disposed of in a manner that is not acceptable.
 - 2. Products determined as unacceptable before or after placement.
 - 3. Products not completely unloaded from transporting vehicle.
 - 4. Products placed beyond lines and levels of the required Work.
 - 5. Products remaining on hand after completion of the Work.
 - 6. Loading, hauling, and disposing of rejected products.

1.4 UNIT PRICES

- A. Unit Quantities: Quantities and measurements indicated on Itemized Proposal are for Contract purposes only. Actual quantities provided shall determine payment.
 - 1. When actual Work requires more or fewer quantities than those quantities indicated, provide required quantities at contracted unit sum/prices.
 - 2. When actual Work requires 25 percent or greater change in quantity than those quantities indicated, Owner or Contractor may claim a Contract Price adjustment.
- B. Payment Includes: Full compensation for required labor, products, tools, equipment, plant and facilities, transportation, services and incidentals; erection, application, or installation of item of the Work; overhead and profit.

PART 2 - PRODUCTS - Not Used

PART 3 - EXECUTION - Not Used

END OF SECTION 012000

Item No.	Item Description	Qty.	Unit	Bid Unit Price (Numerals)	Bid Price (Numerals)
BASE BID ITEMS					
001	35 Watrous Street Water Service Replacement & Restoration	1.00	ls.	\$ _____	\$ _____
002	41 N. Federal Street Water Service Replacement & Restoration	1.00	ls.	\$ _____	\$ _____
				Total of All Base Unit Price Bid Items \$ _____	

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SECTION 31 23 16.13 - TRENCHING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Excavating trenches for utilities.
2. Compacted fill from top of utility bedding to existing elevations.
3. Backfilling and compaction.

1.2 REFERENCES

A. American Association of State Highway and Transportation Officials:

1. AASHTO T180 - Standard Specification for Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop.

B. ASTM International:

1. ASTM D698 - Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³).
2. ASTM D1556 - Standard Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method.
3. ASTM D1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³).
4. ASTM D2167 - Standard Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method.
5. ASTM D2922 - Standard Test Method for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth).
6. ASTM D3017 - Standard Test Method for Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth).

1.3 DEFINITIONS

- A. Utility: Any buried pipe, duct, conduit, or cable.

PART 2 - PRODUCTS

2.1 FILL MATERIALS

- A. Suitable On-Site Material: Shall be on site excavated material free of frozen material, boulders, trash, cinders, ashes, asphalt and foreign debris. Unless otherwise shown on the Contract Drawings or as ordered by the Engineer, approved on-site material shall be used for all backfilling outside of pavement areas. Imported backfill material shall meet the requirements of on-site material.

- B. Gravel: Referred to as “run of bank” gravel or “R.O.B.” gravel shall be well-graded conforming to NYSDOT Specification Section 304-2.02, Type 4.
- C. Crusher Run Stone: Shall conform to NYSDOT Specification Section 304-2.02, Type 2.
- D. Crushed Stone: Shall conform to NYSDOT Specification Section 703-02 and the size as designated on the drawings.
- E. Select Granular Fill: Shall conform to NYSDOT Specification Section 203-2.06.

PART 3 - EXECUTION

3.1 LINES AND GRADES

- A. Lay pipes to lines and grades indicated on Drawings. The Engineer reserves right to make changes in lines, grades, and depths of utilities when changes are required for Project conditions.

3.2 PREPARATION

- A. Call Dig Safely New York service at 1-800-962-7962 not less than two working days before performing Work. Request utilities be located and marked within and surrounding construction areas.
- B. Identify required lines, levels, contours, and datum locations.
- C. Protect plant life, lawns, and other features remaining as portion of final landscaping.
- D. Protect benchmarks, existing structures, fences, sidewalks, paving, and curbs from excavating equipment and vehicular traffic.
- E. Maintain and protect above and below grade utilities indicated to remain.
- F. Establish temporary traffic control when trenching is performed in public right-of-way. Relocate controls as required during progress of Work.

3.3 TRENCHING

- A. Remove all material of every description and of whatever substance encountered to the depths indicated on the drawings or as required by the Owner.
- B. Cut trenches to width indicated on Drawings. Remove water or materials interfering with Work.
- C. Excavate bottom of trenches maximum 2 feet wider than outside diameter of pipe.
- D. Excavate trenches to depth indicated on Drawings. Provide uniform and continuous bearing and support for bedding material and pipe.

- E. Do not interfere with 45 degree bearing splay of foundations.
- F. When Project conditions permit, slope excavation side walls starting 2 feet above top of pipe. When side walls cannot be sloped, provide sheeting and shoring to protect excavation as specified in this section.
- G. When subsurface materials at bottom of trench are loose or soft, excavate to greater depth as directed by Engineer until suitable material is encountered.
- H. Cut out soft areas of subgrade not capable of compaction in place. Backfill with material directed by the Engineer and compact to density equal to or greater than requirements for subsequent backfill material.
- I. Trim excavation. Hand trim for bell and spigot pipe joints. Remove loose matter.
- J. Correct areas over excavated areas with compacted backfill as specified for authorized excavation as directed by Engineer.
- K. Remove excess material not intended for reuse, from site.
- L. Stockpile topsoil in area designated on site to depth not exceeding 8 feet and protect from erosion.

3.4 SHEETING AND SHORING

- A. Sheet, shore, and brace excavations to prevent danger to persons, structures and adjacent properties and to prevent caving, erosion, and loss of surrounding subsoil.
- B. Support trenches excavated through unstable, loose, or soft material. Provide sheeting, shoring, bracing, or other protection to maintain stability of excavation.
- C. Design sheeting and shoring to be removed at completion of excavation work.
- D. Repair damage caused by failure of the sheeting, shoring, or bracing and for settlement of filled excavations or adjacent soil.
- E. Repair damage to new Work from settlement, water or earth pressure or other causes resulting from inadequate sheeting, shoring, or bracing.

3.5 BACKFILLING

- A. Prior to backfilling the new trench, the Contractor shall coordinate a visible open trench inspection by the Wayne County Water & Sewer Authority.
- B. Backfill trenches to contours and elevations with unfrozen fill materials.
- C. Systematically backfill to allow maximum time for natural settlement. Do not backfill over porous, wet, frozen, or spongy subgrade surfaces.

- D. Place Suitable On-Site fill material in continuous layers and compact in 12" lifts. The maximum lift thickness for all granular and select materials shall be 8".
- E. Employ placement method that does not disturb or damage utilities in trench.
- F. Maintain optimum moisture content of fill materials to attain required compaction density.
- G. Do not leave trench open at end of working day.
- H. Protect open trench to prevent danger to the Owner and the public.

3.6 FIELD QUALITY CONTROL

- A. Perform laboratory material tests in accordance with ASTM D1557.
- B. Perform in place compaction tests in accordance with the following:
- C. Density Tests: ASTM D2922.
- D. Moisture Tests: ASTM D3017.
- E. When tests indicate Work does not meet specified requirements, compact, and retest.
- F. Frequency of Tests: Maybe ordered by the Engineer depending on contractors operations.

3.7 SCHEDULE

- A. Bedding and Backfill Around Pipe:
 - 1. All pipe beds shall be hand shaped and of the material as shown on the detail sheet.
 - 2. When conditions warrant, crusher run stone shall be used within both rock trenches and unstable trench bottom conditions.
 - 3. Bedding material shall be deposited up to 6" over the top of pipe, completely encasing the lower half of the pipe.
- B. Trench Backfill and Maintenance:
 - 1. From top of the bedding over the pipe, the trench shall be backfilled with:
 - a. On-Site Material – under lawn areas.
 - b. Full depth Crusher Run Stone – under roads (within the inside shoulder limits)
 - c. 12" of Crusher Run Stone over acceptable on-site material under driveways, sidewalks, parking areas, and shoulder areas.
 - 2. Each layer of backfill shall be moistened or dried as required and shall be compacted to the following densities:
 - a. Crushed Stone Bedding – 95%.
 - b. Under traffic areas (roads, driveways, parking lots, etc) – 95%.
 - c. Under lawn areas -95%.

END OF SECTION 312316.13

SECTION 31 23 19 - DEWATERING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Surface water control system.
 - 2. Water disposal.

1.2 REFERENCES

- A. ASTM International:
 - 1. ASTM C33 - Standard Specification for Concrete Aggregates.

1.3 DEFINITIONS

- A. Surface Water Control: Removal of surface water within open excavations.

1.4 SYSTEM DESCRIPTION

- A. Provide dewatering and surface water control systems to permit Work to be completed on dry and stable subgrade.

1.5 PERFORMANCE REQUIREMENTS

- A. Design surface water control systems to:
 - 1. Collect and remove surface water and seepage entering excavation.

1.6 QUALITY ASSURANCE

- A. Comply with authorities having jurisdiction for the following:
 - 1. Water discharge and disposal from pumping operations.
- B. Obtain permit from EPA under National Pollutant Discharge Elimination System (NPDES), for storm water discharge from construction sites.
- C. Perform Work in accordance with standard of municipality having jurisdiction.

1.7 SEQUENCING

- A. Sequence work to install surface water control systems before starting excavation and trenching.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Call Local Utility Line Information service not less than three (3) working days before performing Work.
 - 1. Request underground utilities to be located and marked within and surrounding construction areas.

3.2 SURFACE WATER CONTROL SYSTEM

- A. Provide ditches, berms, and other devices to divert and drain surface water from excavation area.
- B. Divert surface water and seepage water within excavation areas into sumps and pump water in accordance with requirements of agencies having jurisdiction.
- C. Control and remove unanticipated water seepage into excavation.

3.3 WATER DISPOSAL

- A. Discharge water into existing storm sewer system.

3.4 SYSTEM REMOVAL

- A. Remove surface water control systems after dewatering operations are discontinued.
- B. Repair damage caused by dewatering and surface water control systems or resulting from failure of systems to protect property.

END OF SECTION 31 23 19

SECTION 31 25 00 - EROSION AND SEDIMENTATION CONTROLS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Silt Fencing.

1.2 REFERENCES

- A. New York State Standards and Specifications for Erosion and Sediment Control (latest edition).

PART 2 - PRODUCTS

2.1 GEOTEXTILE MATERIAL

- A. Filter Cloth for Silt Fencing: Filter X, Mirafi 100X, Stabilinka T140N, Envirofence, prefabricated Geofab or equal.

2.2 ACCESSORIES

- A. Posts: Steel, either t or u type, or 2" hardwood.
- B. Fence: Woven wire, 14-1/2 gauge, 6" maximum mesh opening.

PART 3 - EXECUTION

3.1 GENERAL

- A. As soon as the installation and testing of the improvements are completed and accepted, all disturbed areas shall be immediately restored to their original condition or better.
- B. Restoration shall consist of grading, seeding and mulching of all disturbed areas to the satisfaction of the Owner.
- C. Erosion control measures shall be maintained until such time that adequate ground cover is established.
- D. Silt fence shall be erected at the limits of all disturbed areas where, in the judgment of the Engineer, there is potential for siltation of streams, storm sewers, wetlands or neighboring properties, regardless of whether the silt fence is indicated on the drawings.

- E. Clearing and grading shall be carefully done to minimize disturbance of ground cover. Only the smallest area that is practical shall be disturbed at any one time.
- F. All erosion control measures shall be routinely checked, cleaned, and repaired, particularly after storm events.

3.2 SILT FENCE

- A. Woven wire fence to be fastened securely to fence posts with wire ties or staples.
- B. Filter cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid-section.
- C. When two sections of filter cloth adjoin each other, they shall be overlapped by six inches and folded.
- D. Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.

3.3 CLEANING

- A. When sediment accumulation in sedimentation structures has reached a point one-third depth of sediment structure or device, remove and dispose of sediment.
- B. Do not damage structure or device during cleaning operations.
- C. Do not permit sediment to erode into construction or site areas or natural waterways.
- D. Clean channels when depth of sediment reaches approximately one half channel depth.

END OF SECTION 312500

SECTION 329113 - SOIL PREPARATION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Preparation of subsoil.
 - 2. Soil testing.
 - 3. Placing topsoil.

1.2 QUALITY ASSURANCE

- A. Perform Work in accordance with municipality having jurisdiction.

PART 2 - PRODUCTS

2.1 SOIL MATERIALS

- A. Topsoil: Fertile, agricultural soil, typical for locality, capable of sustaining vigorous plant growth, taken from drained site; free of subsoil, clay or impurities, plants, weeds and roots; pH value of minimum 5.4 and maximum 7.0.

2.2 SOURCE QUALITY CONTROL

- A. Provide recommendation for fertilizer and lime application rates for specified seed mix as result of testing.
- B. Testing is not required when recent tests and certificates are available for imported topsoil. Submit these test results to testing laboratory. Indicate, by test results, information necessary to determine suitability.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify prepared soil base is ready to receive the Work of this section.

3.2 PREPARATION OF SUBSOIL

- A. Prepare sub-soil to eliminate uneven areas and low spots. Maintain lines, levels, profiles and contours. Make changes in grade gradual. Blend slopes into level areas.

- B. Remove foreign materials, weeds and undesirable plants and their roots. Remove contaminated sub-soil.
- C. Scarify subsoil to depth 3 inches where topsoil is to be placed. Repeat cultivation in areas where equipment, used for hauling and spreading topsoil, has compacted sub-soil.

3.3 PLACING TOPSOIL

- A. Spread topsoil to minimum depth of 4 inches over area to be seeded. Rake until smooth.
- B. Place topsoil during dry weather and on dry unfrozen subgrade.
- C. Remove vegetable matter and foreign non-organic material from topsoil while spreading.
- D. Grade topsoil to eliminate rough, low or soft areas, and to ensure positive drainage.
- E. Install edging at periphery of seeded areas in straight lines to consistent depth.

END OF SECTION 32 91 13

SECTION 32 92 19 - SEEDING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Fertilizing.
 - 2. Seeding.
 - 3. Hydroseeding.
 - 4. Mulching.
 - 5. Maintenance.

1.2 REFERENCES

- A. ASTM International:
 - 1. ASTM C602 - Standard Specification for Agricultural Liming Materials.

1.3 DEFINITIONS

- A. Weeds: Vegetative species other than specified species to be established in given area.

1.4 QUALITY ASSURANCE

- A. Provide seed mixture in containers showing percentage of seed mix, germination percentage, inert matter percentage, weed percentage, year of production, net weight, date of packaging, and location of packaging.
- B. Perform Work according to municipality having jurisdiction.

1.5 QUALIFICATIONS

- A. Seed Supplier: Company specializing in manufacturing Products specified in this section with minimum three years documented experience.
- B. Installer: Company specializing in performing work of this section with minimum three (3) years documented experience.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver grass seed mixture in sealed containers. Seed in damaged packaging is not acceptable.
- B. Deliver fertilizer in waterproof bags showing weight, chemical analysis, and name of manufacturer.

1.7 MAINTENANCE SERVICE

- A. Maintain seeded areas immediately after placement until grass is well established and exhibits vigorous growing condition for one cutting.

PART 2 - PRODUCTS

2.1 SEED MIXTURE

- A. Furnish materials according to State of New York Highway Standards.
- B. Description:
 - 1. Kentucky Blue Grass (3 varieties min.): 15 to 40 percent.
 - 2. Fine Fescue Grass 2 varieties min.; must incl. Creeping Red): 30 to 50 percent.
 - 3. Perennial Rye (2 varieties min.): 15 to 40 percent.
 - 4. Annual Rye: 5 to 15 percent.

2.2 ACCESSORIES

- A. Mulching Material: Oat or wheat straw, free from weeds, foreign matter detrimental to plant life, and dry. Hay or chopped cornstalks are not acceptable.
- B. Fertilizer: Commercial grade; recommended for grass; of proportion necessary to eliminate deficiencies of topsoil, as indicated in analysis.
- C. Lime: ASTM C602, Class T agricultural limestone containing a minimum 80 percent calcium carbonate equivalent.
- D. Water: Clean, fresh and free of substances or matter capable of inhibiting vigorous growth of grass.
- E. Erosion Fabric: Jute matting, open weave.
- F. Herbicide: N/A.
- G. Stakes: Softwood lumber, chisel pointed.
- H. String: Inorganic fiber.

2.3 SOURCE QUALITY CONTROL

- A. Provide recommendation for fertilizer and lime application rates for specified seed mix as result of testing.
- B. Testing is not required when recent tests and certificates are available for imported topsoil. Submit these test results to testing laboratory. Indicate, by test results, information necessary to determine suitability.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify prepared soil base is ready to receive the Work of this section.

3.2 FERTILIZING

- A. Apply lime at application rate recommended. Work lime into top 4 inches of soil.
- B. Apply fertilizer at application rate recommended.
- C. Apply after smooth raking of topsoil.
- D. Do not apply fertilizer at same time or with same machine used to apply seed.
- E. Mix fertilizer thoroughly into upper 2 inches of topsoil.
- F. Lightly water soil to aid dissipation of fertilizer. Irrigate top level of soil uniformly

3.3 SEEDING

- A. Apply seed at rate of 5 lbs. per 1,000 sq. ft. evenly in two directions. Rake in lightly.
- B. Do not seed areas in excess of that which can be mulched on same day.
- C. Planting Season: Per USDA Hardiness Zone 6.
- D. Do not sow immediately following rain, when ground is too dry, or when winds are over 12 mph.
- E. Rolling Seeded Area: N/A.
- F. Immediately following seeding, apply mulch to thickness of 1/8 inch. Maintain clear of shrubs and trees.
- G. Apply water with fine spray immediately after each area has been mulched. Saturate to 4 inches of soil.

3.4 HYDROSEEDING

- A. Apply fertilizer, mulch and seeded slurry with hydraulic seeder at rate of 5 lbs. per 1,000 sq. ft. evenly in one pass.
- B. After application, apply water with fine spray immediately after each area has been hydroseeded. Saturate to 4 inches of soil and maintain moisture levels two to four inches.

3.5 SEED PROTECTION

- A. Identify seeded areas with stakes and string around area periphery. Set string height to 12 inches. Space stakes at 48 inches.
- B. Cover seeded slopes where grade is 4 inches per foot or greater with erosion fabric. Roll fabric onto slopes without stretching or pulling.
- C. Lay fabric smoothly on surface, bury top end of each section in 6 inch deep excavated topsoil trench. Overlap edges and ends of adjacent rolls minimum 12 inches. Backfill trench and rake smooth, level with adjacent soil.
- D. Secure outside edges and overlaps at 36 inch intervals with stakes.
- E. Lightly dress slopes with topsoil to ensure close contact between fabric and soil.
- F. At ditch sides, lay fabric laps in direction of water flow. Lap ends and edges minimum 6 inches.

3.6 MAINTENANCE

- A. Water to prevent grass and soil from drying out.
- B. Roll surface to remove minor depressions or irregularities.
- C. Control growth of weeds. Apply herbicides. Remedy damage resulting from improper use of herbicides.
- D. Immediately reseed areas showing bare spots.
- E. Repair washouts or gullies.
- F. Protect seeded areas with warning signs during maintenance period.

3.7 SCHEDULE

- A. Front Seeded Area: Grass seed mixture specified, 3 inches top soil.

END OF SECTION 32 92 19

SECTION 33 12 13 - WATER SERVICE CONNECTIONS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
1. Pipe and fittings for water service connections to buildings.
 2. Meter setting equipment.
 3. Underground pipe markers.
 4. Bedding and cover materials.

1.2 REFERENCE STANDARDS

- A. American Association of State Highway and Transportation Officials:
1. AASHTO T 180 - Standard Method of Test for Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop.
- B. American Society of Mechanical Engineers:
1. ASME B16.18 - Cast Copper Alloy Solder Joint Pressure Fittings.
 2. ASME B16.22 - Wrought Copper and Copper Alloy Solder Joint Pressure Fittings.
- C. ASTM International:
1. ASTM A48 - Standard Specification for Gray Iron Castings.
 2. ASTM B62 - Standard Specification for Composition Bronze or Ounce Metal Castings.
 3. ASTM B88 - Standard Specification for Seamless Copper Water Tube.
 4. ASTM D698 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³).
 5. ASTM D1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³).
 6. ASTM D1785 - Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120.
 7. ASTM D2241 - Standard Specification for Poly(Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series).
 8. ASTM D2466 - Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40.
 9. ASTM D2855 - Standard Practice for Making Solvent-Cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings.
 10. ASTM D6938 - Standard Test Method for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth).
- D. American Welding Society:
1. AWS A5.8 - Specification for Filler Metals for Brazing and Braze Welding.
- E. American Water Works Association:
1. AWWA C600 - Installation of Ductile-Iron Mains and Their Appurtenances.
 2. AWWA C800 - Underground Service Line Valves and Fittings.

3. AWWA C901 - Polyethylene (PE) Pressure Pipe and Tubing, 1/2 In. (13 mm) Through 3 In. (76 mm), for Water Service.

1.3 SUBMITTALS

- A. Product Data: Submit data on pipe materials, pipe fittings, and accessories.
- B. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
- C. Manufacturer Instructions: Submit detailed instructions on installation requirements, including storage and handling procedures.
- D. Field Quality-Control Submittals: Indicate results of Contractor-furnished tests and inspections.
- E. Qualifications Statement:
 1. Submit qualifications for manufacturer.

1.4 CLOSEOUT SUBMITTALS

- A. Project Record Documents: Record actual locations of piping mains, curb stops, connections, thrust restraints, and invert elevations.
- B. Identify and describe unexpected variations to subsoil conditions or discovery of uncharted utilities.

1.5 QUALITY ASSURANCE

- A. Perform Work according to standards of municipality having jurisdiction.

1.6 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this Section with minimum three years' documented experience.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Inspection: Accept materials on Site in manufacturer's original packaging and inspect for damage.
- B. Store products and materials off ground and under protective coverings and away from walls.
- C. Exercise care in handling precast concrete products to avoid chipping, cracking, and breakage.

PART 2 - PRODUCTS

2.1 WATER SERVICE PIPING, VALVES, AND FITTINGS

- A. All valves and fittings shall be lead free and comply with NSF/ANSI 372 standards.
- B. High Density Polyethylene Tubing:
 - 1. Meet Classifications of PE-3308/PE-3408/PE-3608 with a minimum 200 PSI pressure rating; or Classification PE-4710 with a 250 PSI pressure rating.
 - 2. The polyethylene tubing shall be the same outside diameter as copper and be stamped CTS (copper tubing size).
 - 3. Comply with current revisions of AWWA C901-8, ASTM D22, NSF 61, and NSF 14 standards.
 - 4. Joints: Compression type with stainless steel insert.
- C. Angle Meter Valve: $\frac{3}{4}$ " Valve with 1" diameter Compression Inlet by Meter Swivel Nut Outlet. Mueller, A.Y. McDonald, Ford Q-Series, or equal.
- D. Dual Check Valves: Canister type with Meter Swivel Nut Inlet by Male NPT Outlet. Ford HHC38-323-NL, A.Y. McDonald 711-3JM 43, Wilkins 700XL, or equal.
- E. Pressure Reducing Valves: Shall have an operating range of 20 psi to 80 psi, and be double union or FNPT inlet to union outlet. Wilkins Model 70 or approved Mueller or Watts equivalent.

2.2 UNDERGROUND PIPE MARKERS

- A. Trace Wire:
 - 1. Description: Electronic detection materials for non-conductive piping products.
 - 2. Copper Wire: Unshielded 10 gage THWN, insulated.
 - 3. Extend tracer wire into structure for future ready access.

2.3 MATERIALS

- A. Bedding and Cover: See 31 23 17 – Trenching.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that building service connections and municipal utility water main sizes, locations, and inverts are as indicated on Drawings.

3.2 PREPARATION

- A. Cut pipe ends square, ream pipe and tube ends to full pipe diameter, and remove burrs.

- B. Remove scale and dirt from inside and outside of piping before assembly.
- C. Prepare pipe connections to equipment with flanges or unions.

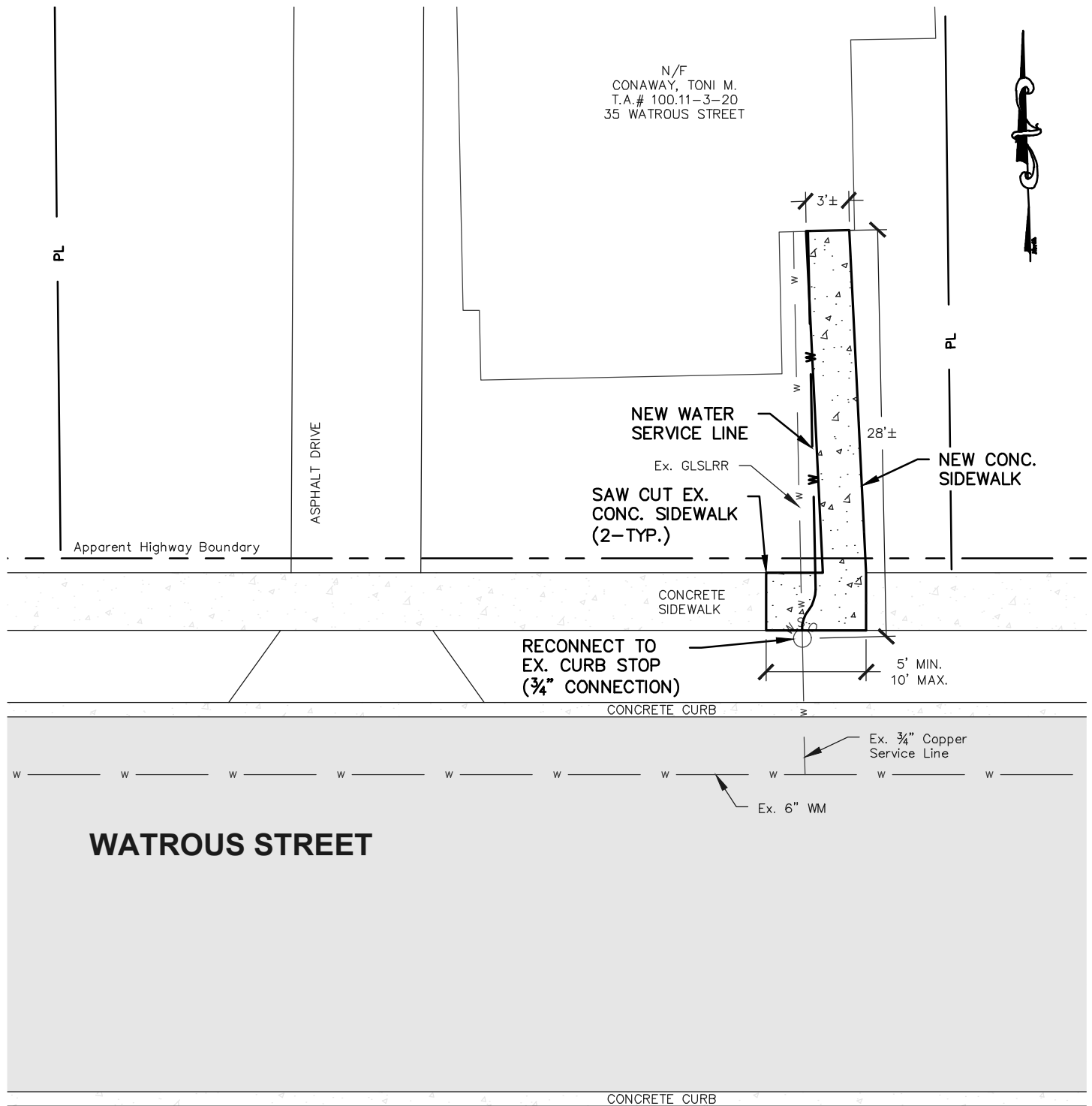
3.3 INSTALLATION

- A. Bedding:
 - 1. Excavate and backfill pipe trench as specified in Section 31 23 17 - Trenching.
 - 2. Backfill around sides and 6" above the top of pipe with Suitable On-Site Material. Tamp in place, and compact all backfill to 95 percent maximum density.
 - 3. Maintain optimum moisture content of fill material to attain required compaction density.
- B. Service Connections:
 - 1. Install new water service and tracer wire to exterior building face and extend both inside building.
 - 2. Prepare connection of new water service to existing water service with new Angle Meter Valve, new Dual Check Valve, and new Pressure Reducing Valve.
 - 3. Re-install existing water meter on site.
 - 4. Installation Standards: Install Work according to Detail Drawings. Contractor shall coordinate inspection with Village of Perry DPW immediately after reconnections are complete to ensure the meter is in the proper flow direction and existing remote radio read is operable.
- C. Disinfection of Water Piping System:
 - 1. Flush and disinfect service line prior to activation (min. 5 gal.).

3.4 FIELD QUALITY CONTROL

- A. Contact the Village of Perry DPW for inspection prior to backfilling.
- B. Compaction Testing for Bedding: Comply with ASTM D1557.
- C. If tests indicate Work does not meet specified requirements, remove Work, replace, and retest.
- D. Frequency of Compaction Tests: As determined by Engineer.
- E. The Contractor shall coordinate with property owners to schedule all interior work.

END OF SECTION 33 12 13



VILLAGE OF PERRY
LEAD SERVICE LINE REPLACEMENT
WYOMING COUNTY, NEW YORK

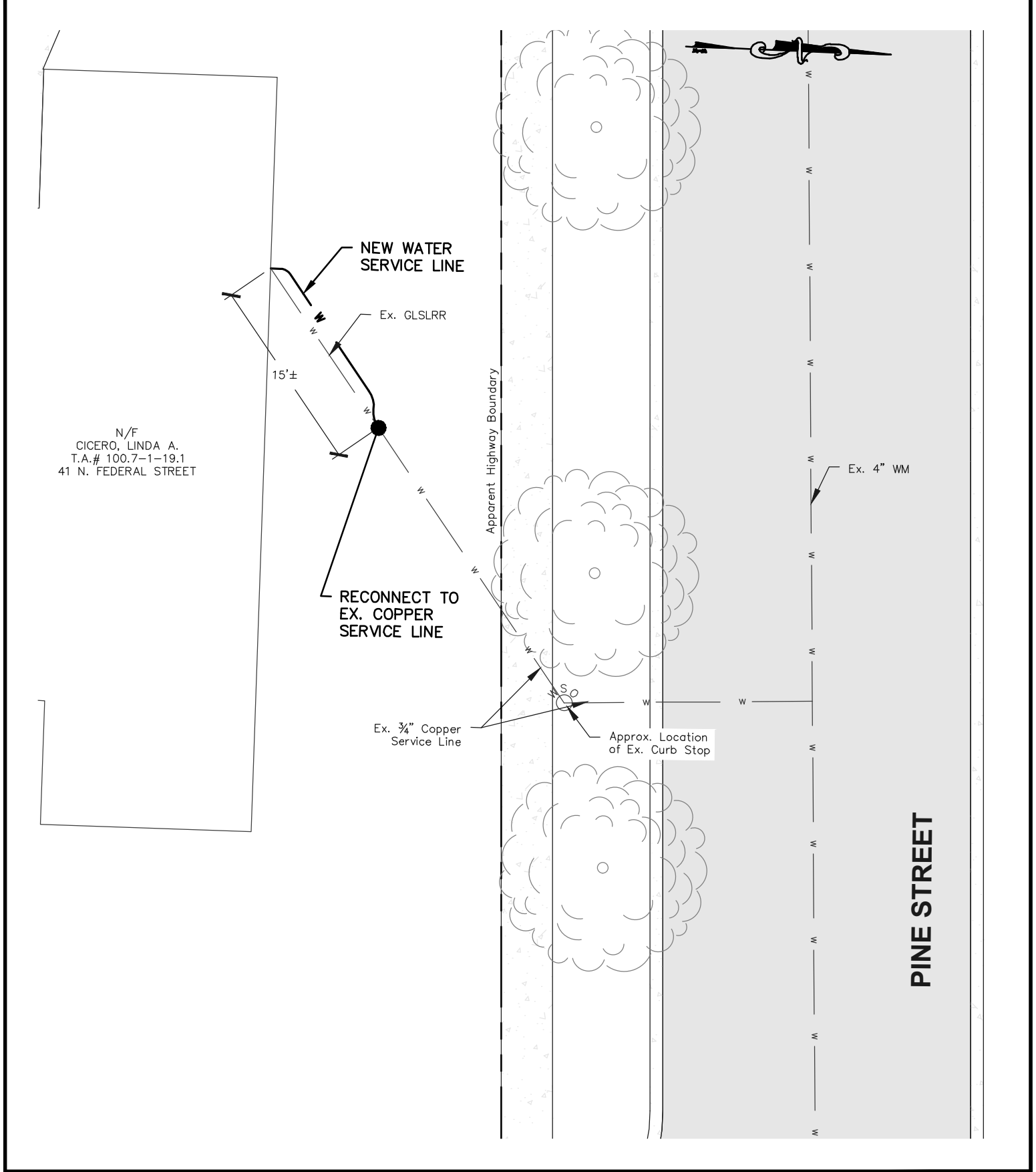
35 WATROUS ST.
 SERVICE LINE
 REPLACEMENT

DRAWN BY: JEB
 CHECKED BY: JEB

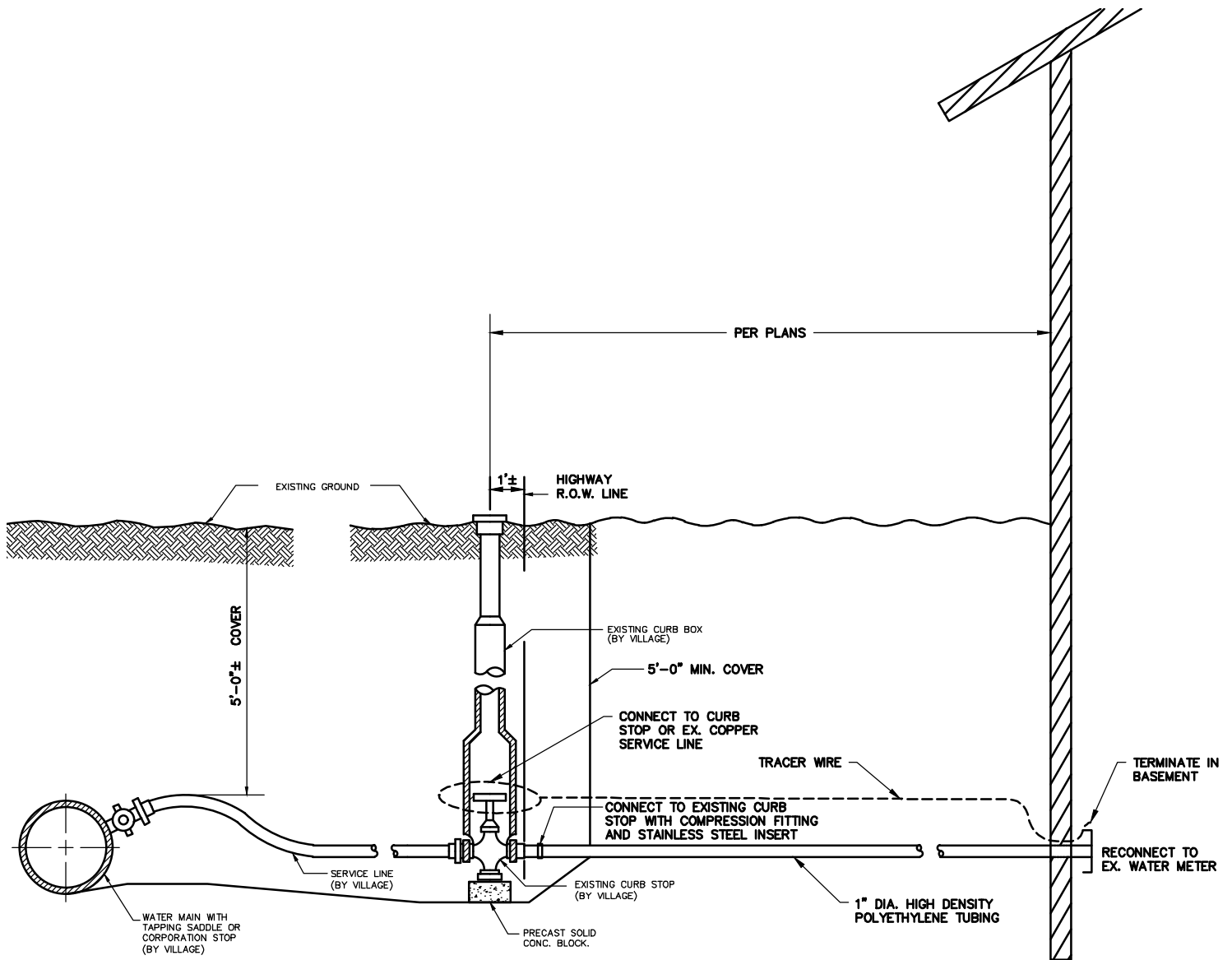
SCALE: 1" = 10'
 DATE: 4/17/2025

MRB PROJECT #:
1956.21006.000

DWG-1



		VILLAGE OF PERRY LEAD SERVICE LINE REPLACEMENT WYOMING COUNTY, NEW YORK			41 N. FEDERAL ST. SERVICE LINE REPLACEMENT	
DRAWN BY:	JEB	SCALE:	1" = 10'	MRB PROJECT #:	-	DWG-2
CHECKED BY:	JEB	DATE:	4/17/2025		1956.21006.000	



VILLAGE OF PERRY
LEAD SERVICE LINE REPLACEMENT
WYOMING COUNTY, NEW YORK

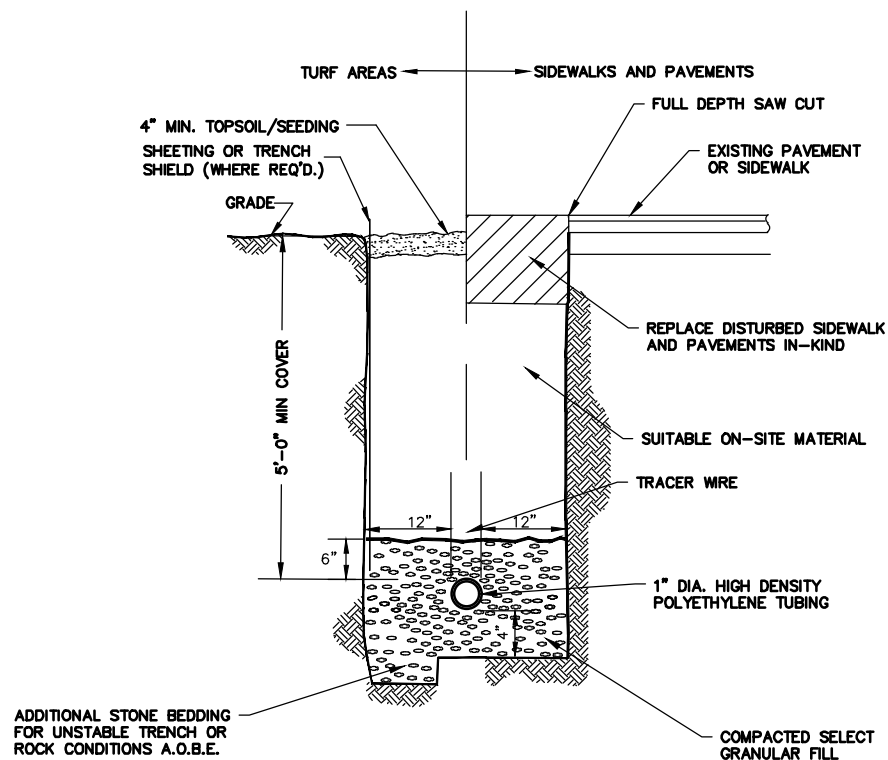
WATER SERVICE
 REPLACEMENT
 DETAIL

DRAWN BY: JEB
 CHECKED BY: JEB

SCALE: N.T.S.
 DATE: 4/17/2025

MRB PROJECT #:
1956.21006.000

DWG-3



VILLAGE OF PERRY
**LEAD SERVICE LINE REPLACEMENT
WYOMING COUNTY, NEW YORK**

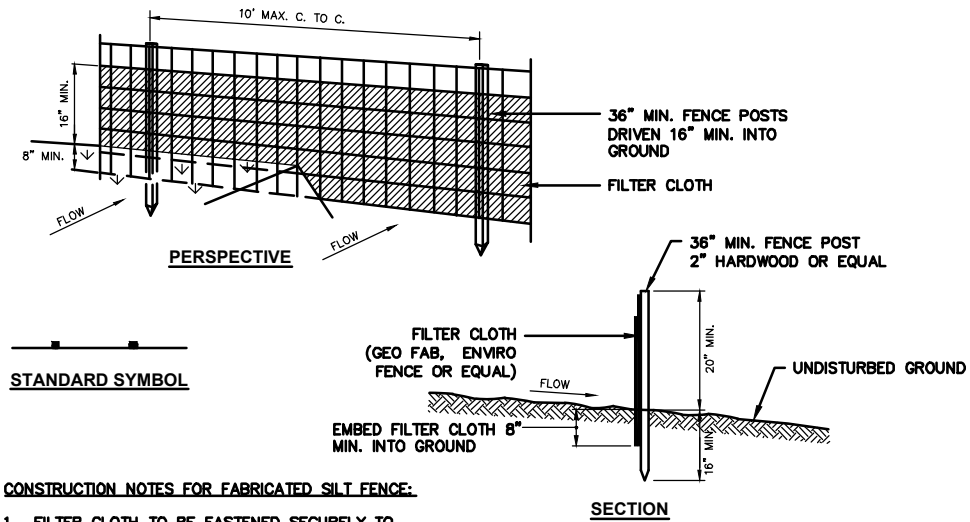
WATER SERVICE
TRENCH DETAIL

DRAWN BY: JEB
CHECKED BY: JEB

SCALE: N.T.S.
DATE: 4/17/2025

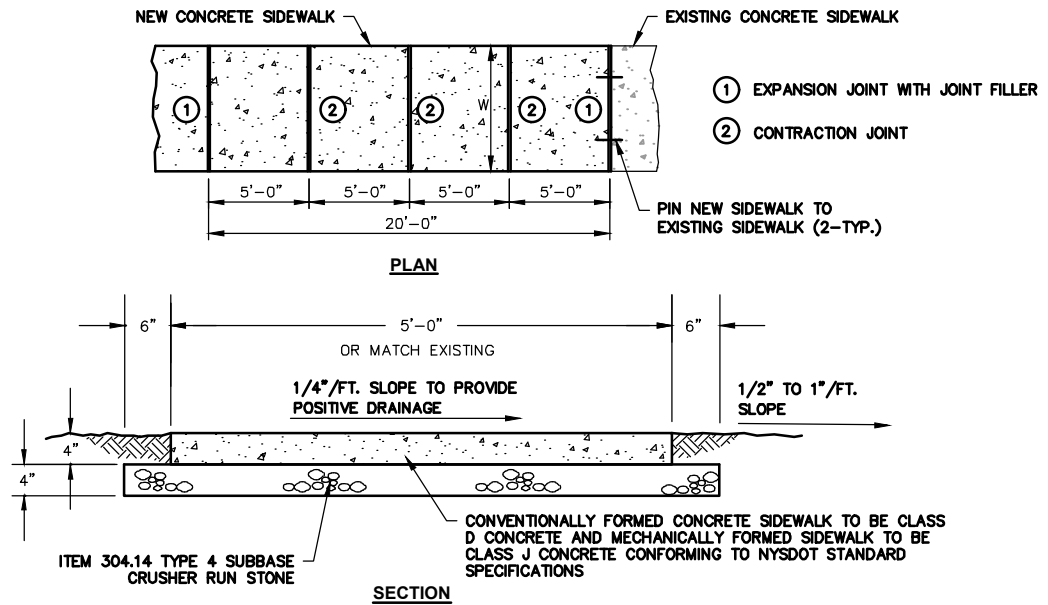
MRB PROJECT #:
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DWG-4



SILT FENCE

(N.T.S.)



VILLAGE SIDEWALK REPLACEMENT DETAIL

(N.T.S.)



VILLAGE OF PERRY LEAD SERVICE LINE REPLACEMENT WYOMING COUNTY, NEW YORK

WATER SERVICE
MISC. DETAILS

DRAWN BY: JEB
CHECKED BY: JEB

SCALE: AS SHOWN
DATE: 4/17/2025

MRB PROJECT #:
1956.21006.000

DWG-5