RETTEW
We answer to you.
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E-mail: rettew@rettew.com ● Web site: rettew.com

Engineers
Environmental Consultants
Surveyors
Landscape Architects
Safety Consultants

ADDENDUM NO. 01

October 19, 2026

To: All Prospective Bidders

RE: Upper Leacock Township Municipal Authority
New Holland Pike Low-Pressure Force Main Replacement Project
Contract 2026-04
RETTEW Project No. 0571401439

Dear Bidders:

The following Addendum No. 01 is hereby made to the contract documents for the above-referenced project. Any additions, clarifications, or deletions described in this Addendum take precedence over any instructions at conflict herein. All items in this Addendum shall be considered in preparation of your proposal for the referenced project.

Receipt of this Addendum shall be acknowledged by inserting this number and date in the space provided on the Bid Form. Failure to do so may result in disqualification of the Bidder. The addendum consists of 3 pages and the following attachments:

- Specification 004110 – Bid Form Unit Price
- Specification Section 015728 – Temporary Bypass Pumping Systems (First Issue - 6 pages)
- Sheet G-01 (1 page)
- Sheet C-08 (1 page)
- Sheet EC-04 (1 page)

PROJECT MANUAL MODIFICATIONS

The Project Manual shall be modified as follows:

SECTION 004110 – BID FORM UNIT PRICE (RE-ISSUED)

Doghouse manholes have been changed to a quantity of 0, and the corresponding VF has been added to standard precast manholes since MH-621B will no longer be a doghouse manhole.

SECTION 015728 – TEMPORARY BYPASS PUMPING SYSTEMS (FIRST ISSUE)

Add Section 015728 – Temporary Bypass Pumping Systems to the Project Manual. Since MH-621B will no longer be installed as a doghouse manhole, bypass pumping will be necessary to ensure continuous flow during manhole installation.

SECTION 330513 – MANHOLES AND STRUCTURES

The interior of the manholes, including the wall, cone, and base section shall be provided with a polypropylene liner. This does not pertain to Air Release Valve Vaults. ARV vaults will have interior PVC liner as currently specified in 2.1(A)(11)(b)(2). The base sections of the ARV vaults will be coated with a 100% solids epoxy, SW Duraplate 6100 or approved equal (Refer to Detail 1 – Combination Air Release/Vacuum Valve Vault Detail on Sheet D-02).

In order to implement the required liners in the contract documents, Section 330513 – Manholes and Structures is to be revised as follows:

Remove Section 2.1(A)(11)(a) in its entirety. The white epoxy coating will not be utilized as part of this project.

Remove Section 2.1(A)(11)(b) in its entirety and replace with the following language:

b.1 Precast Reinforced Concrete Manholes (MH-621A & MH-621B)

a) Manhole bases shall be furnished with factory-installed, corrosion resistant polypropylene liners designed to protect the concrete from corrosion due to the presence of hydrogen sulfide and other corrosive chemicals commonly present in wastewater atmospheres. Liners shall provide continuous coverage of the manhole invert channels and benching and shall be securely anchored to the concrete to prevent separation or displacement. Liners shall be molded to accommodate the specified pipe sizes, channels configurations, and flow directions. Connections to the influent and effluent piping shall be watertight and compatible with the liner system. Manhole base liners shall be PREDL Polypropylene Manhole Base Liners, as manufactured by PREDL Systems, or approved equal.

b) Precast concrete manhole risers and cone sections shall be furnished with factory-installed polypropylene liners designed to protect the concrete from corrosion due to the presence of hydrogen sulfide and other corrosive chemicals commonly present in wastewater atmospheres. Liners shall provide continuous coverage of the interior manhole walls and cone surfaces and shall be securely anchored to the concrete to prevent separation or deformation. Liner joints shall be sealed in accordance with the manufacturer's recommendations to provide a continuous, watertight, and corrosion-resistant barrier. All penetrations and transitions shall be sealed to prevent exposure of the concrete. Manhole wall and cone liners shall be PREDL polypropylene CORPROTECT lining system, as manufactured by PREDL Systems, or an approved equal.

3) Connections between the manholes base liner and riser liner shall be sealed to form a continuous, watertight, and corrosion-resistant barrier.

DRAWING MODIFICATIONS

The Contract Drawings shall be modified as follows:

SHEET NO. G-01 (RE-ISSUED)

Delete Sheet G-01 and replace it with the revised sheet, which includes an updated One Call Matrix.

SHEET NO. C-01

MH-621B, as shown on Sheet C-01, shall be installed as a precast concrete manhole rather than a doghouse manhole.

SHEET NO. C-08 (RE-ISSUED)

Delete Sheet C-08 and replace it with the revised sheet. The revised sheet eliminates the originally proposed force main alignment along the sidewalk and establishes the alternative alignment within the roadway travel lane as the required alignment for construction. The forcemain shall be installed in accordance with the revised Sheet C-08. Note that these changes were already reflected in the originally issued bid form quantities.

SHEET NO. EC-04 (RE-ISSUED)

Delete Sheet EC-04 and replace it with the revised sheet. The revised sheet eliminates the originally proposed force main alignment along the sidewalk and establishes the alternative alignment within the roadway travel lane as the required alignment for construction. The forcemain shall be installed in accordance with the revised Sheet EC-04. The Limit of Disturbance has been updated to indicate the changes.

SHEET NO. D-03

Detail 2/D-03, “Doghouse Sanitary Manhole Base,” on Sheet D-03 shall be disregarded. MH-621B shall not be installed as a doghouse manhole.

END OF ADDENDUM

ADDENDUM NO. 1 – ISSUED 10/19/2026

BID FORM

Project Identification: Contract No. 2026-04 – General Construction
New Holland Pike Low-Pressure Force Main Replacement Project

RETTEW Project No.: 0571404139

Name of Bidder: _____

This Bid is submitted to: Upper Leacock Township Municipal Authority
161 Newport Road
Leola, PA 17540

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with OWNER in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents for the Bid price and within the Bid Times indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.
2. Bidder accepts all of the terms and conditions of the Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid Security. This Bid will remain subject to acceptance for 60 days after the day of Bid opening unless award is delayed by a required approval of another government agency, the sale of bonds, or the award of a grant or grants, in which case this Bid shall remain subject to acceptance for 120 days after the bid opening date as provided by the Act of November 26, 1978 (P.L. 1309, No. 317), as amended by the Act of December 12, 1994 (P.L. 1042, No. 142). Bidder will sign and deliver the required number of counterparts of the Agreement with the Bonds and other documents required by the Bidding Requirements within 15 days after the date of OWNER'S Notice of Award.
3. In submitting this Bid, Bidder represents, as more fully set forth in the Agreement, that:

    a. Bidder has examined and carefully studied the Contract Documents and the following Addenda receipt of all which is hereby acknowledged:

    _____
    _____
    _____

    b. Bidder has visited the site and become familiar with and is satisfied as to the general, local and site conditions that may affect cost, progress, performance and furnishing of the Work.
    c. Bidder is familiar with and is satisfied as to all federal, state and local laws and regulations that may affect cost, progress, performance and furnishing of the Work.
    d. If applicable, Bidder has carefully studied all reports of explorations and tests of subsurface conditions at or contiguous to the site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the site (except underground facilities) that have been identified in the Supplementary Conditions as referenced in Article 4 of the General Conditions. Bidder accepts the determination set forth in Paragraph SC-4.02 of the

Supplementary Conditions of the extent of the "technical data" contained in such reports and drawings upon which Bidder is entitled to rely as provided in Article 4 of the General Conditions. Bidder acknowledges that such reports and drawings are not Contract Documents and may not be complete for Bidder's purposes. Bidder acknowledges that OWNER and ENGINEER do not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Contract Documents with respect to underground facilities at or contiguous to the site. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all such additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and underground facilities) at or contiguous to the site or otherwise that may affect cost, progress, performance or furnishing of the Work or that may relate to any aspect of the means, methods, techniques, sequences and procedures of construction to be employed by Bidder and safety precautions and programs incident thereto. Bidder does not consider that any additional examinations, investigations, explorations, tests, studies or data are necessary for the determination of this Bid for performance and furnishing of the Work in accordance with the times, price and other terms and conditions of the Contract Documents.

e. Bidder is aware of the general nature of the Work to be performed by OWNER and others at the site that relates to work for which this Bid is submitted as indicated in the Contract Documents.

f. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the site, reports and drawings identified in the Contract Documents and all additional examinations, investigations, explorations, tests, studies and data with the Contract Documents.

g. Bidder has given ENGINEER written notice of all conflicts, errors, ambiguities or discrepancies that Bidder has discovered in the Contract Documents and the written resolution thereof by ENGINEER is acceptable to Bidder, and the Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work for which this Bid is submitted.

h. This Bid is genuine and not made in the interest of or on the behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over OWNER. Bidder is aware that they must complete a minimum of fifty (50) percent of the work on the project with its own forces.

4. Bidder will complete the Work in accordance with the Contract documents for the prices entered into the electronic Bid Form on the PennBID website, which is located under the “Bid” tab. (The electronic Bid Form may be downloaded and printed for the Bidder’s use.) the unit price summation is identified as:

CONTRACT NO. 2026-04

Item		Estimated Quantity	Unit	Unit Price	Total Price
GENERAL CONDITIONS					
1	Mobilization/Demobilization and Closeout	1	LS		
2	Erosion and Sedimentation Control	1	LS		
3	Maintenance and Protection of Traffic	1	LS		
DEMOLITION					
4	Small Tree/Shrub Removal	5	EA		
5	Demolition of Existing Valve Vaults/Manholes	7	EA		
HDPE LOW-PRESSURE SEWER LINE (OPEN CUT)					
6A	3” HDPE DR-17 Force Main (Improved Area)	53	LF		
6B	4” HDPE DR-17 Force Main (Improved Area)	18	LF		
6C	6” HDPE DR-17 Force Main (Improved Area)	489	LF		
6D	8” HDPE DR-17 Force Main (Improved Area)	68	LF		
6E	8” HDPE DR-17 Force Main (Unimproved Area)	126	LF		
6F	10” HDPE DR-17 Force Main (Improved Area)	1472	LF		
6G	12” HDPE DR-17 Force Main (Improved Area)	8351	LF		
6H	12” HDPE DR-17 Force Main (Unimproved Area)	760	LF		
6I	1.5” HDPE DR-11 Service Lateral	1250	LF		
PVC LOW-PRESSURE SEWER LINE (OPEN CUT)					
7A	2” PVC SDR-21 Force Main (Improved Area)	26	LF		
7B	2.5” PVC SDR-21 Force Main (Improved Area)	5	LF		
PVC GRAVITY SEWER (OPEN CUT)					
8	12” PVC SDR-35 Gravity Sewer Line (Improved Area, 0’-8’ Deep)	23	LF		
9	4’ Pre-Cast Sanitary Sewer Manhole	16	VF		
~~10~~	~~4’ Doghouse Sanitary Sewer Manhole~~	~~0~~	~~VF~~		
11	Standard Manhole Frame and Cover	2	EA		
FORCEMAIN VALVES					
12A	3” Plug Valve & Box	1	EA		
12B	4” Plug Valve & Box	4	EA		
12C	6” Plug Valve & Box	2	EA		
12D	8” Plug Valve & Box	1	EA		
12E	12” Plug Valve & Box	5	EA		
13A	2” Ball Valve & Box	4	EA		
13B	2.5” Ball Valve & Box	1	EA		
14	4” Insertion Valve	1	EA		
15	3” Combination Air Release Valve & Vault	5	EA		
MAINLINE CONNECTIONS					
16	Mainline Interconnections	12	EA		
17	Dart Interconnection & South Maple Vault Rehab	1	LS		
LATERAL CONNECTIONS					
18	Lateral Reconnection (Short Side)	98	EA		
19	Lateral Reconnection (Long Side)	82	EA		
MISCELLANEOUS					
20	Unclassified Excavation (Contingent)	100	CY		

Item		Estimated Quantity	Unit	Unit Price	Total Price
21A	Unmarked Utility Repair (Contingent) - Telecom	3	EA		
21B	Unmarked Utility Repair (Contingent) – 6" Waterline	3	EA		
21C	Unmarked Utility Repair (Contingent) – 8" Waterline	3	EA		
21D	Unmarked Utility Repair (Contingent) – Water Lateral	3	EA		
21E	Unmarked Utility Repair (Contingent) – Gas Main	3	EA		
21F	Unmarked Utility Repair (Contingent) – Gas Lateral	3	EA		
21G	Unmarked Utility Repair (Contingent) – Sanitary Sewer Lateral	3	EA		
22A	Line Stops/Mech Plugs (Additional, Contingent) – 2"	2	EA		
22B	Line Stops/Mech Plugs (Additional, Contingent) – 2.5"	2	EA		
22C	Line Stops/Mech Plugs (Additional, Contingent) – 3"	2	EA		
22D	Line Stops/Mech Plugs (Additional, Contingent) – 4"	2	EA		
SURFACE RESTORATION					
23	Unimproved Surface - Lawns/Field	1003	LF		
24	Improved Surface - Gravel	150	LF		
25	Improved Surface – Asphalt Driveway	50	LF		
26	Improved Surface – Municipal Road	430	LF		
27	Improved Surface – Concrete Sidewalk	420	LF		
28	Improved Surface – Full Depth State Road Restoration	10744	LF		
29	Improved Surface – Temporary Road Restoration (State & Municipal)	11174	LF		
30	Improved Surface – Concrete curb	250	LF		

TOTAL UNIT PRICE BASE BID SUMMATION:	(figures)
Dollars and	Cents (written)

5. Bidder agrees that the Work will be substantially complete within 315 calendar days after the date when the contract time commences to run as provided in Paragraph 2.03 of the General Conditions, and completed and ready for final payment within 14 calendar days after the date of Substantial Completion. Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the times specified in the Agreement.
6. The following shall be submitted with the BID on the PennBID website: Bid Security, Bid Form Certification, Non Collusion Affidavit, Workers Comp Affidavit, Public Works Employment Verification, CFA Non Discrimination Sexual Harassment Affidavit, Experience Questionnaire
7. Communications concerning this Bid shall be addressed to the address of Bidder indicated below or the following address:

   _____

   _____

   _____

   _____

8. The terms used in this Bid that are defined in the General Conditions or Instructions will have the meanings assigned to them in the General Conditions or Instructions.

SUBMITTED on .

If Bidder is:

An Individual

By: _____ (SEAL)
(INDIVIDUAL'S NAME)

doing business as _____
Business Address: _____
_____
Phone No.: _____

A Partnership

By: _____ (SEAL)
(FIRM'S NAME)

_____
(GENERAL PARTNER)

Business Address: _____
_____
Phone No.: _____

A Corporation

By: _____ (SEAL)
(CORPORATION'S NAME)

_____
(STATE OF INCORPORATION)

By: _____ (SEAL)
(NAME OF PERSON AUTHORIZED TO SIGN)

_____
(TITLE)

(Corporate Seal)

Attest: _____
(SECRETARY)

Business Address: _____
_____
Phone No.: _____

A Joint Venture

By: _____ (SEAL)
(NAME)

_____
(ADDRESS)

By: _____ (SEAL)
(NAME)

_____
(ADDRESS)

Phone Number and Address for Receipt of Official Communications.

_____
_____
_____

(Each joint venturer must sign. The manner of signing for each individual, partnership and corporation that is a party to the joint venture should be in the manner indicated above.)

DIVISION 01 – GENERAL REQUIREMENTS

SECTION 015728 - TEMPORARY BYPASS PUMPING SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, apply to this Section.

1.2 SUMMARY

A. Furnish all labor, materials, equipment and incidentals required and install, field test, and operate temporary by-pass pumping systems as proposed by the Contractor for the purpose of diverting flow around work areas as required for construction activities.

B. The design, installation and operation of temporary by-pass pumping systems shall be the Contractor's responsibility. The Contractor shall demonstrate to the Owner and Engineer that the company is qualified for the design and operation of temporary by-pass pumping systems. The by-pass system shall meet the requirements of all codes and regulatory agencies having jurisdiction.

C. Maintain temporary by-pass pumping systems so that they are completely functional throughout the required period of service.

D. Following the required period of service, remove temporary by-pass pumping systems from site.

E. Provide all maintenance including manufacturer recommended preventive maintenance and on-call repair services. Contractor shall provide full-time on-site monitoring of bypass pumping while in operation, 24 hours per day, 7 days per week, and shall also be capable of providing repair services and/or replacement equipment 24 hours per day, seven days per week.

F. Should the Contractor elect to use diesel fuel for temporary by-pass pumping, the total storage quantity of fuel allowable at the site to operate the temporary pumps shall not exceed the sum of the individual fuel tank capacities furnished with each pump's diesel engine drive. Provide a refueling service to maintain continuous 24-hours per day, 7 days per week pumping system operation.

1.3 ACTION SUBMITTALS

A. Submit the following:

- A detailed description of each proposed temporary by-pass pumping system including pumps, pump drives, piping, hoses, valves, fittings, controls, wiring and any other related

accessories required to provide a complete operating system in conformance with the requirements of this Section.

- Detailed plans and sections showing the proposed pumping system layout including dimensions and elevations. Plan shall include but not be limited to the following:
  a. Staging area and access requirements for all pumps.
  b. Number, size, material, location and method of installation of suction piping.
  c. Number, size, material, location and method of installation of discharge piping.
  d. Pump size, capacity, number of units, diesel engine specifications, fuel tank capacity, fuel consumption requirements, and method of refueling.
  e. Calculations of static lift, pipe size selection, friction losses, flow velocity and pump selection.
  f. Pump curves showing pump operating range.
  g. Proposed number of intermediate manholes in the line and businesses that need bypass pumping.
  h. Proposed method of freeze protection.
  i. Proposed method of noise control for each pump.
  j. Temporary pipe supports, anchorage, cover material and other accessories as required to stabilize the piping system.
  k. Installation schedule and maintenance schedule.
  l. List of personnel responsible for 24-hour on-site pump monitoring services and phone numbers.
  m. A minimum of five reference installations of projects with similar size in wastewater pumping applications. Include contact names and phone numbers.
  n. List of recommended spare parts to be stored on-site for emergency maintenance.
- Provide information on the vendor's service staff capabilities and replacement parts inventory to show that the vendor has sufficient resources to provide emergency service and replacement equipment and/or parts to the work site within 4 hours of a service call.
- A description of system operation and controls. Include a list of all alarm conditions and procedures for correcting problems including equipment replacement.
- A description and schedule for the proposed procedures for startup and testing of the facilities to demonstrate compliance with specified automatic operation and maintenance of a constant discharge pressure.
- A plan of operations for inclement weather including snowstorms. The plan shall demonstrate the ability to maintain pumping system operations throughout inclement weather events.

1.4 QUALITY ASSURANCE

A. The Contractor shall demonstrate his experience or employ the services of a vendor who can demonstrate 5 years of recent and continuous specialization in the design, installation, operation and removal of temporary by-pass pumping systems in wastewater applications. The complete system shall be furnished from a single vendor who shall be capable of providing service staff, repair parts and replacement of any deficient system component within 4 hours of a service call, twenty-four hours per day, seven days per week.

1.5 SYSTEM DESCRIPTION

A. Pumping system control panels shall be NEMA 4 and include flow indication, a flow totalizer, indicator lamps showing which pumps are operating, selector switch for auto or manual start and stop for each pump and visual and audible alarms for indication of operation failure and alarm conditions.

1.6 MANUFACTURER'S SERVICES

A. Provide the services of the manufacturer's representative as specified herein.

B. Provide the services of the manufacturer's representative for physical checkout field testing and operation and maintenance instruction for a minimum of 1 person day per pumping system. See requirements in PART 3.

C. Provide the services of the manufacturer's representative or designated alternative, who shall be ON-SITE 24-hours per day during all bypass pumping operations. Provide list of these designated personnel with telephone numbers prior to the start of bypass pumping.

PART 2 - PRODUCTS

2.1 GENERAL PUMPING EQUIPMENT

A. Furnish pumping units and all accessories from a single vendor. Each temporary by-pass pumping system shall be complete including pumps, drives, piping, piping headers, valves, flow meter, controls and appurtenances as required for a complete system.

B. The pumps, drives and controls shall be designed and built for 24-hour continuous service at any and all points within the required range of operation, without overheating, without cavitation, and without excessive vibration or strain. All parts shall be so designed and proportioned as to have the strength, stability and stiffness and be constructed to meet the specified requirements. Methods shall be provided for inspection, repairs, and adjustment.

C. All necessary foundation bolts, nuts, and washers shall be furnished.

D. Each piece of equipment shall be furnished with a nameplate (with embossed data) securely mounted to the body of the equipment. As a minimum, the nameplate for the pumps shall include the manufacturer's name and model number, serial number, rated flow capacity, head, speed and all other pertinent data. As a minimum, nameplates for drives shall include the manufacturer's name and model number, serial number, horsepower, speed, input voltage, amps, number of cycles and power and service factors.

E. Provide sound attenuation if required by Owner and comply with applicable noise ordinances for the equipment.

F. All equipment shall be suitable for outdoor operation under adverse weather conditions. Provide protection from freezing as required to maintain system operation.

G. Pumps shall be manufactured by Flygt, Goodwin Pumps of America, Bridgeport NJ; Acme Dynamics, Plant City, FL; Thompson Pump and Manufacturing Co., Port Orange FL, or equal.

2.2 CONDITIONS OF OPERATION

A. Each pump shall be designed for the conditions of service specified herein. All pumps shall have a rising head capacity curve for stable pump operation from the minimum head operating point to the shut-off head.

- Design Capacity
  a. Average Daily Flow: 389 GPM
  b. Peak Daily Flow: 973 GPM
  c. Instantaneous flow conditions have potential to exceed the peak daily flow. Provisions shall be in place such that a peak instantaneous capacity of 1,650 GPM can be accommodated if necessary.

2.3 PUMPING SYSTEM COMPONENTS

A. All pumps shall be centrifugal, submersible or end suction, fully automatic self-priming units that do not require the use of foot-valves, vacuum pumps, diaphragm pumps, or isolation valves or float apparatus in the priming system.

B. Pump seals shall be high pressure, mechanical self-adjusting type with solid carbide faces capable of withstanding suction pressures to 100 psi without the pump running. The mechanical seal shall be cooled and lubricated in an oil bath reservoir, requiring no maintenance or adjustment. The oil bath reservoir shall not come in contact with or leak into the pumped water. Each pump shall be capable of running dry, with no damage for extended periods of time. All pump seal metal parts shall be stainless steel. All elastomers shall be Viton.

C. Each pump shall be driven by a diesel engine or electric motor. Diesel engine shall be water cooled. If the Contractor uses electric motor driven pumps, all power costs are the responsibility of the Contractor.

D. If using diesel driven pumps, each pump and diesel engine shall be skid mounted with integral fuel tank and skid lifting bracket.

E. Provide automatic start/stop controls for the pumping system to automatically maintain system flow at each location. Controls shall be contained in a local control panel with provision to manually operate each pump, provide indication of pump operation, and indicate the total flow being pumped.

F. Provide all required suction and discharge pipe and fittings, discharge manifold pipe and fittings, shutoff valves, check valves, flow meter, pressure regulating valves, insulation, freeze protection, and all required accessories. All pipe and fittings shall be steel with flanged or quick connect coupling connections, or high-density polyethylene pipe with fused joints. All joints must be 100 percent restrained. Suction piping shall be rated for 25-in Hg vacuum. Discharge piping, fittings, connections, valves, and other discharge piping accessories shall be rated for a minimum working pressure of 150 psi.

PART 3 - EXECUTION

3.1 INSTALLATION AND PHYSICAL CHECKOUT

A. Installation shall be in accordance with the system supplier's recommendations and approved shop drawing submittals.

B. Critically silenced packs shall be utilized on each diesel-driven pumpsets and shall reduce the sound of the diesel-driven engine to 69 dBA at a distance of 30 feet if required by Owner.

C. Install pumping units on a firm level surface.

D. Furnish the services of the pump system supplier's representative for a minimum of one day per temporary by-pass system to assist equipment installation and physical checkout.

3.2 FIELD TESTING

A. Provide field testing in accordance with the approved shop drawing submittal. Field tests shall demonstrate conformance with system requirements.

B. The Contractor shall require that field testing be conducted by the pump system supplier's representative in the presence of the Engineer. Furnish the services of the pump system supplier's representative for a minimum of one day per temporary by-pass system to conduct required testing.

C. Field testing shall demonstrate a minimum of 24 hours of continuous operation. During the 24 hours of continuous operation, the system shall demonstrate the ability to automatically start and stop pumps in response to changing flow conditions.

D. Remove and replace any system component that fails to perform in accordance with specified requirements.

3.3 SYSTEM OPERATION

A. Perform all required maintenance on the equipment to maintain the system integrity and capacity as specified.

B. Provide clean-up and disposal of contaminated material and reporting for all product spills.

3.4 EQUIPMENT REMOVAL

A. At the completion of the period of service, disconnect all temporary piping and remove all system components from the site. Restore the work site to its original condition.

END OF SECTION

NEW HOLLAND PIKE LOW–PRESSURE FORCE MAIN REPLACEMENT PROJECT
FOR
UPPER LEACOCK TOWNSHIP MUNICIPAL AUTHORITY

PA ONE CALL UNDERGROUND UTILITY PROTECTION ACT

PURSUANT TO THE PROVISIONS OF ACT NO. 287 OF 1974, AS AMENDED BY ACT 187 OF 1996, ACT 181 OF 2006, ACT 160 OF 2016 AND ACT 50 OF 2017 OF THE PENNSYLVANIA STATE LEGISLATURE, RETTEW ASSOCIATES, INC. HAS PERFORMED THE FOLLOWING IN PREPARING THESE DRAWINGS REQUIRING EXCAVATION OR DEMOLITION WORK AT SITES WITHIN THE POLITICAL SUBDIVISION(S) SHOWN ON THE DRAWINGS:

1. PURSUANT TO SECTION 4, CLAUSE (2) OF SAID ACT, RETTEW ASSOCIATES, INC. REQUESTED FROM EACH FACILITY OWNER DESIGNATED ON SUCH LIST PROVIDED BY THE ONE CALL SYSTEM NOTIFICATION, THE INFORMATION PRESCRIBED BY SECTION 2, CLAUSE (4) OF SAID ACT, NOT LESS THAN TEN (10) NOR MORE THAN NINETY (90) BUSINESS DAYS BEFORE FINAL DESIGN IS TO BE COMPLETED.
2. PURSUANT TO SECTION 4, CLAUSE (5) OF SAID ACT, RETTEW ASSOCIATES, INC. HAS MET THEIR OBLIGATIONS OF CLAUSE (2) BY CALLING THE PENNSYLVANIA ONE CALL SYSTEM SERVING THE LOCATION WHERE THE WORK IS TO BE PERFORMED, AND SHOWING THE ASSOCIATED SERIAL NUMBER(S) ON THIS/THESE DRAWING(S).
3. PURSUANT TO SECTION 4, CLAUSE (3) OF SAID ACT, RETTEW ASSOCIATES, INC. HAS SHOWN UPON THIS/THESE DRAWING(S) THE POSITION AND TYPE OF EACH FACILITY, AS DERIVED PURSUANT TO THE REQUEST MADE AS REQUIRED BY CLAUSE (2),
4. PURSUANT TO SECTION 4, CLAUSE (5) OF SAID ACT, RETTEW ASSOCIATES, INC. HAS SHOWN UPON THIS/THESE DRAWING(S) THE TOLL-FREE NUMBER FOR THE ONE CALL SYSTEM AND THE SERIAL NUMBER(S) FOR THE ASSOCIATED ONE CALL SYSTEM NOTIFICATION(S),

ADDITIONALLY, RETTEW ASSOCIATES, INC. DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE OR GUARANTEE THAT THE INFORMATION RECEIVED PURSUANT TO SAID REQUEST, AND AS REFLECTED ON THIS/THESE DRAWING(S), IS CORRECT OR ACCURATE. INFORMATION REFLECTED ON THIS/THESE DRAWING(S) IS SHOWN AS REQUIRED BY SAID ACT NO. 160 OF 2016, AND AS PROVIDED BY THE FACILITY OWNER PURSUANT TO SECTION 2, CLAUSE (4) OF SAID ACT.

DATE: 09/22/2026

ONE CALL SYSTEM SERIAL NUMBER: 20262612747

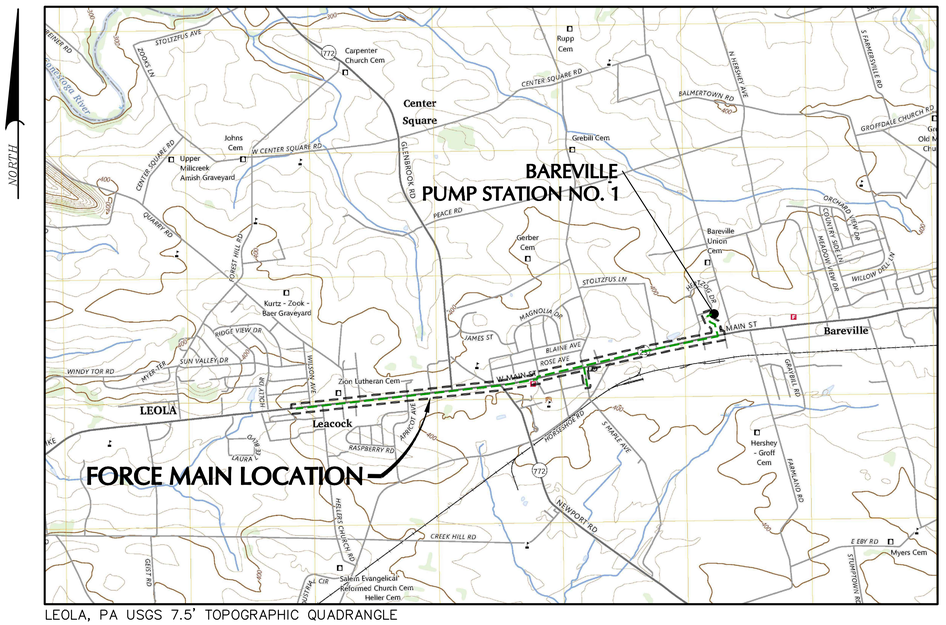
Pennsylvania811
A Privately funded non-profit Pennsylvania Corporation
1-800-242-1776

CALL BEFORE YOU DIG!
PENNSYLVANIA LAW REQUIRES THREE (3) WORKING DAYS NOTICE FOR CONSTRCTION PHASE AND TEN (10) WORKING DAYS IN DESIGN STAGE - STOP CALL

ONE CALL MATRIX

Response Due Date: 10/02/26		Survey Review Completed by:			Date:		
UTILITY/COMPANY		RESPONSE RCVD (select one) KARL Auto Response	TICKET #	RETTEW ACTION Map/No Map	CONTACT NAME	CONTACT EMAIL	CONTACT PHONE
Electric							
PPL Electric Utilities Corporation	10/3/26	Clear	20262612747		Pamela Seitzer	pdseitzer@pplweb.com	(570) 368-5394
Gas							
Buckeye Partners	9/18/26		20262612747		Brian Barr	bbarr@buckeye.com	(610) 904-4156
	10/3/26	Clear					
UGI Utilities Inc	9/18/26		20262612747		Geoffrey Ferguson	gferguson@UGI.com	(610) 807-3118
	9/24/26				Luke MacNair	macnairl@ugi.com	(717) 413-1080
	10/3/26	Engineering Completed					
Communication							
Comcast/Cable Protection Services Inc	9/18/26		20262612747		Debbie King	debbie_king@cableps.com	(804) 562-3409
	10/3/26	Engineering Completed					
Frontier Communications of PA Inc	10/3/26	Clear	20262612747		Michael Navich	Michael.Navich@FTR.com	(570) 208-3375
Verizon Pennsylvania	10/3/26	Clear	20262612747		Office Personnel	1Call-Verizon-PADE@verizon.com	
Water/Sewer							
Upper Leacock Township Municipal Authority/Upper Leacock Township	9/22/26		20262612747		Robert Fricke	rfricke@ultwp.com	(717) 656-9755
	10/3/26	Engineering Completed					ext 532
USDI Utility Safety and Design Inc	10/3/26	Clear	20262612747		Jason Brangers	jason@usdi.us	(502) 819-1338
Upper Leacock TMA/Upper Leacock Twp	10/3/26	Engineering Completed	20262612747		Derek Martin	Dmartrin@ultwp.com	(717) 656-9755
							ext 554

UPPER LEACOCK TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA



LEOLA, PA USGS 7.5' TOPOGRAPHIC QUADRANGLE

SITE LOCATION MAP
SCALE: 1" = 2000'

OCTOBER 2026

DRAWING INDEX

G–01	COVER SHEET
G–02	NOTES AND LEGENDS
G–03	DRAWING PLAN INDEX
C–01	PROPOSED SANITARY PLAN AND PROFILE I
C–02	PROPOSED SANITARY PLAN AND PROFILE II
C–03	PROPOSED SANITARY PLAN AND PROFILE III
C–04	PROPOSED SANITARY PLAN AND PROFILE IV
C–05	PROPOSED SANITARY PLAN AND PROFILE V
C–06	PROPOSED SANITARY PLAN AND PROFILE VI
C–07	PROPOSED SANITARY PLAN AND PROFILE VII
C–08	PROPOSED SANITARY PLAN AND PROFILE VIII
C–09	PROPOSED SANITARY PLAN AND PROFILE IX
C–10	PROPOSED SANITARY PLAN AND PROFILE X
C–11	PROPOSED SANITARY PLAN AND PROFILE XI
C–12	PROPOSED SANITARY PLAN AND PROFILE XII
C–13	PROPOSED SANITARY PLAN AND PROFILE XIII
C–14	PROPOSED SANITARY PLAN AND PROFILE XIV
C–15	PROPOSED SANITARY PLAN AND PROFILE XV
C–16	PROPOSED SANITARY PLAN AND PROFILE XVI
C–17	PROPOSED SANITARY PLAN AND PROFILE XVII
EC–01	EROSION & SEDIMENTATION CONTROL NOTES
EC–02	EROSION & SEDIMENTATION CONTROL DETAILS
EC–03	EROSION & SEDIMENT CONTROL PLAN I, II & III
EC–04	EROSION & SEDIMENT CONTROL PLAN IV, V & VI
EC–05	EROSION & SEDIMENT CONTROL PLAN VII & VIII
EC–06	EROSION & SEDIMENT CONTROL PLAN IX & X
D–01	CIVIL DETAILS I
D–02	SANITARY PIPING DETAILS I
D–03	SANITARY PIPING DETAILS II
D–04	SANITARY PIPING DETAILS III

CONTRACT No. 2026–04

NO.	DATE	REVISION
1	10/19/2026	ADDENDUM NO. 1
0	10/06/2026	ISSUED FOR BIDDING

FOR RETTEW ASSOCIATES BY:
COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ANDREW D FERKO IV
ENGINEER
No. PE098300
09/10/26

MANAGER: ABRAHAM KING
DESIGN BY: ADF | CHKD BY: AJK
DRAWN BY: JNW | CHKD BY: ADF
SURV. CHIEF: N/A | FELDBOOK NO. N/A

CLIENT
UPPER LEACOCK TOWNSHIP MUNICIPAL AUTHORITY
161 NEWPORT ROAD
LEOLA, PA 17540
CONTACT: ABRAHAM KING, PE

NTS

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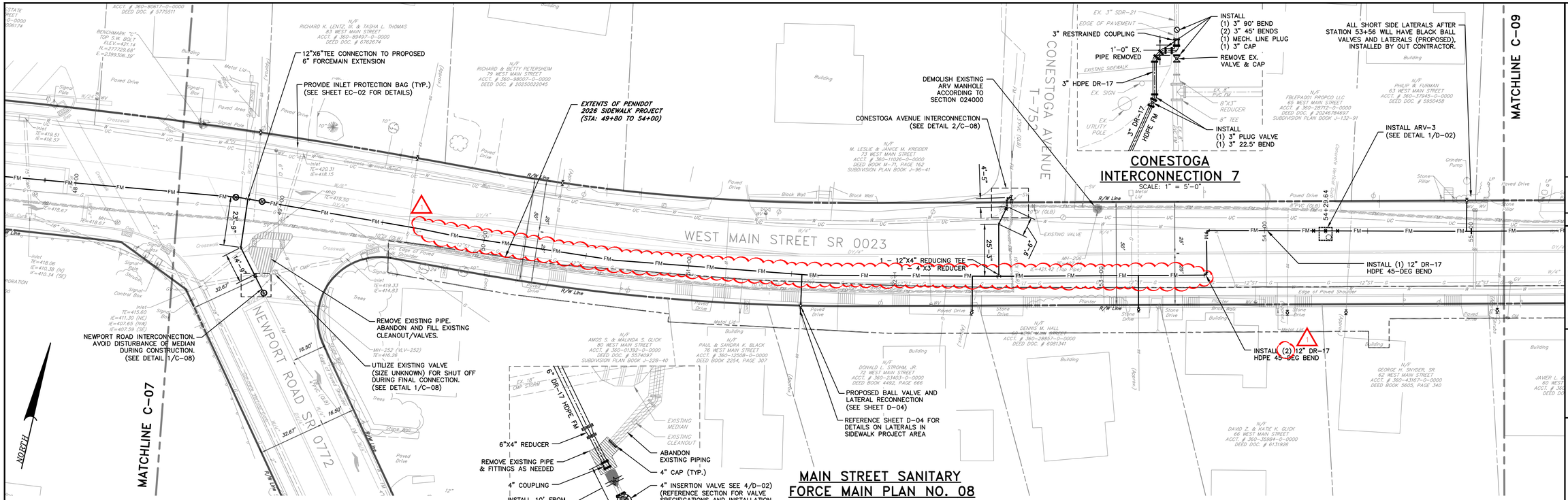
Phone: (717) 291-1456
Email: rettew@rettew.com
Website: www.rettew.com
Engineers • Planners • Surveyors • Landscape Architects
Environmental Consultants

NEW HOLLAND PIKE LOW–PRESSURE FORCE MAIN REPLACEMENT PROJECT
FOR
UPPER LEACOCK TOWNSHIP MUNICIPAL AUTHORITY
COVER SHEET
UPPER LEACOCK TOWNSHIP — LANCASTER COUNTY, PA

PROJ. NO. 0571404139
DWG. NO. G–01

ISSUED FOR BIDDING



CONESTOGA INTERCONNECTION 7

SCALE: 1" = 5'-0"

NEWPORT ROAD INTERCONNECTION 6

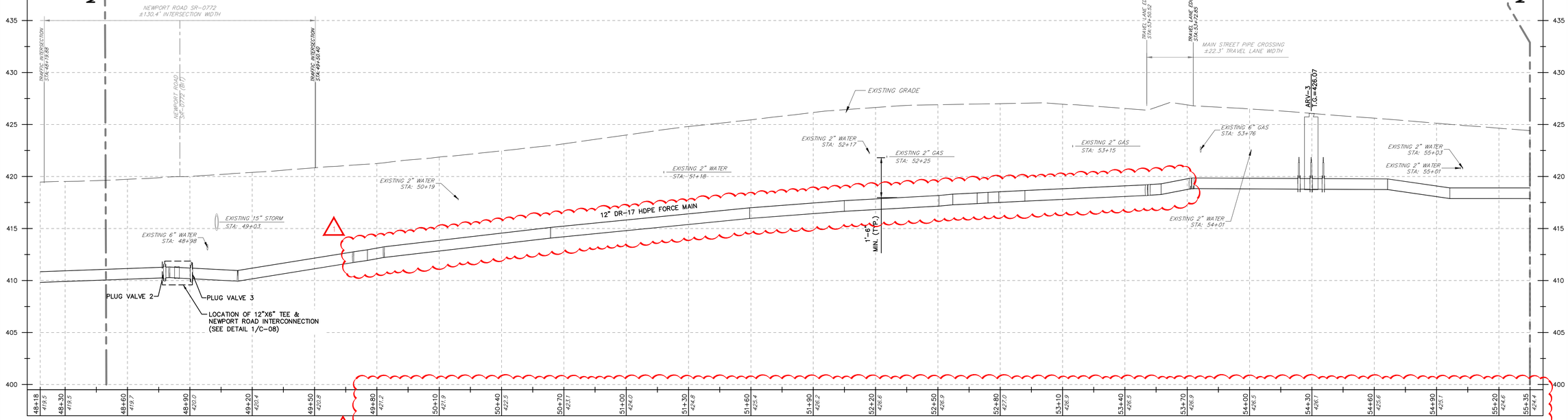
SCALE: 1/4" = 1'-0"

DETAIL 1/C-08

MAIN STREET SANITARY FORCE MAIN PLAN NO. 08

SCALE: 1"=25'

NOTES:
1. REFERENCE RECOMMENDED CONSTRUCTION SEQUENCE ON SHEET G-03.
2. REFERENCE DETAIL SHEET D-04 FOR LATERAL TRANSITION DETAILS AND SEQUENCING.



MAIN STREET SANITARY FORCE MAIN PROFILE NO. 08

HORIZONTAL SCALE – 1"=25'
VERTICAL SCALE – 1"=5'

CONTRACT No. 2026-04

NO.	DATE	REVISION
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FOR RETTEW ASSOCIATES BY:

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — ANDREW D FERKO IV — ENGINEER — No. PE098300 — 09/10/26

MANAGER: ABRAHAM KING | CHKD BY: AJK
DESIGN BY: ADF | CHKD BY: ADF
DRAWN BY: JNW | FIELDBOOK NO.: N/A
SURV. CHIEF: N/A

CLIENT
UPPER LEACOCK TOWNSHIP MUNICIPAL AUTHORITY
161 NEWPORT ROAD
LEOLA, PA 17540
CONTACT: ABRAHAM KING, PE

SCALE: 1"=25' (0, 12.5', 25', 50', 75')

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Website: www.rettew.com
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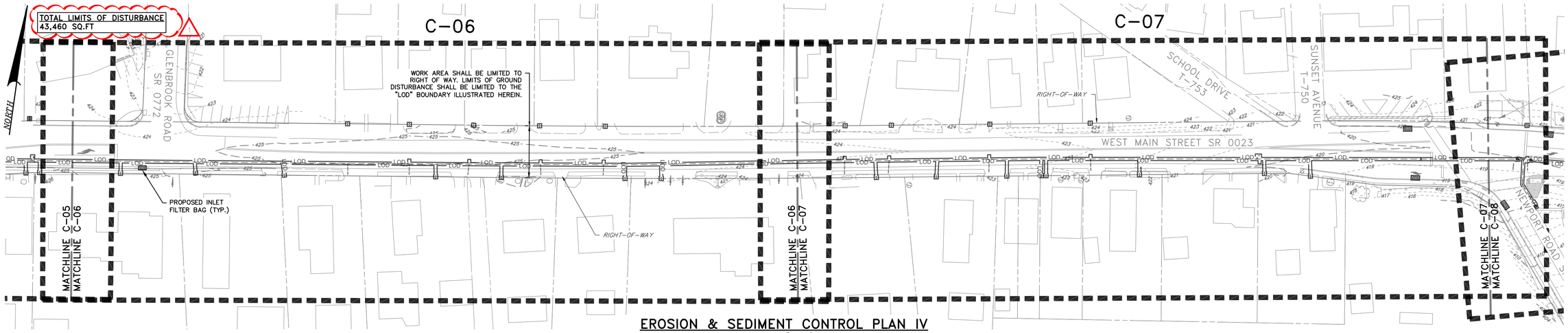
Environmental Consultants

NEW HOLLAND PIKE LOW-PRESSURE FORCE MAIN REPLACEMENT PROJECT
FOR
UPPER LEACOCK TOWNSHIP MUNICIPAL AUTHORITY
SANITARY FORCE MAIN PLAN AND PROFILE VIII
UPPER LEACOCK TOWNSHIP — LANCASTER COUNTY, PA

PROJ. NO. 0571404139

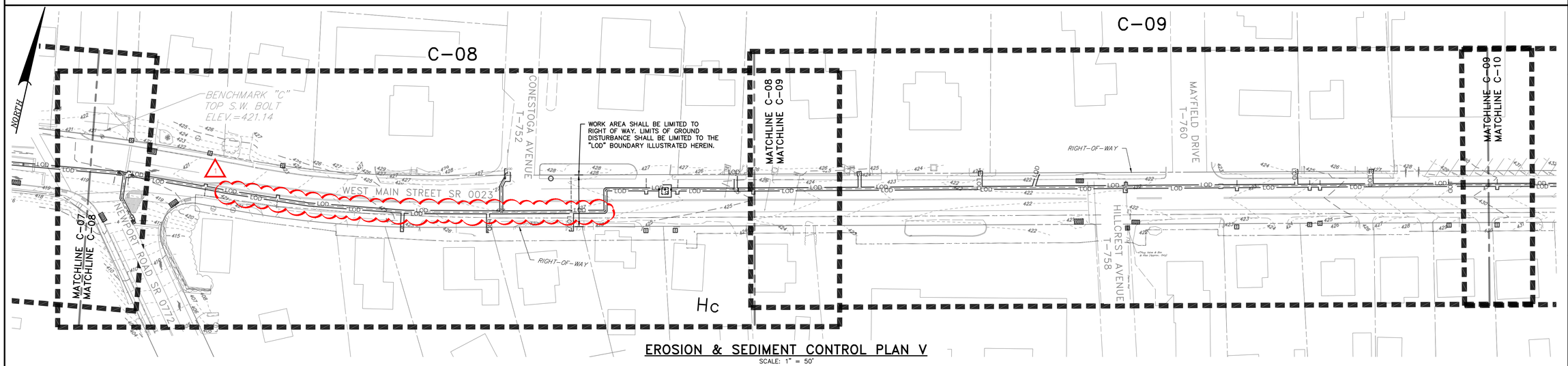
DWG. NO. C-08

ISSUED FOR BIDDING



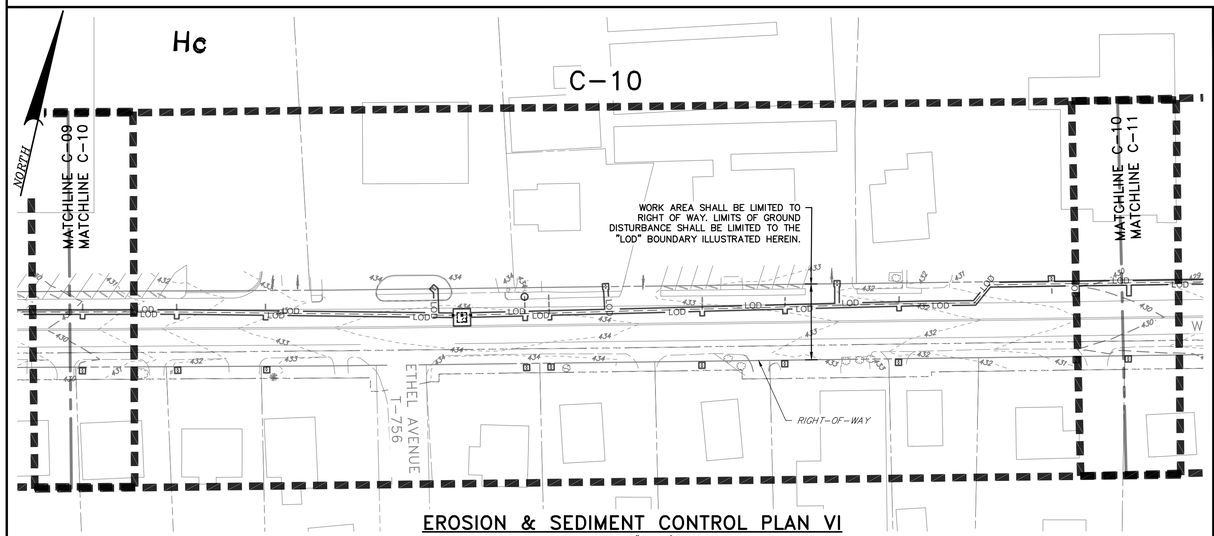
EROSION & SEDIMENT CONTROL PLAN IV

SCALE: 1" = 50'



EROSION & SEDIMENT CONTROL PLAN V

SCALE: 1" = 50'



EROSION & SEDIMENT CONTROL PLAN VI

SCALE: 1" = 50'

NOTES

1. ALL WORK OF THIS PROJECT IS CONTAINED WITHIN THE MILL CREEK WATERSHED, PRIMARILY FEEDING UNNAMED TRIBUTARIES TO MILL CREEK. MILL CREEK AND ITS ASSOCIATED UNNAMED TRIBUTARIES AROUND THE PROJECT AREA ARE CLASSIFIED AS WWF.

2. CONTRACTOR SHALL PROVIDE INLET FILTER BAGS AT ALL EXISTING INLETS DOWN GRADIENT OF THE WORK AREA. INLET FILTER BAGS ARE SHOWN IN THE PLAN DRAWINGS.

3. STOCKPILING WILL NOT BE PERMITTED IN THE PROJECT AREA. CONTRACTOR MUST UTILIZE A DIRECT HAUL OPERATION IN WHICH EXCAVATED MATERIAL IS LOADED DIRECTLY TO A TRUCK AND HAULED OFF SITE.

LEGEND

LIMITS OF DISTURBANCE	LOD
TEMPORARY INLET PROTECTION	
SHEET AREA BOUNDARY	
SOIL TYPE BOUNDARY LINE	
SOIL TYPE DESIGNATION	Du

CONTRACT No. 2026-04

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FOR RETTEW ASSOCIATES BY:

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — ANDREW D FERKO IV — ENGINEER — No. PE098300 — 10/19/26

MANAGER: ABRAHAM KING
DESIGN BY: ADF
CHKD BY: AJK
DRAWN BY: JNW
CHKD BY: ADF
SURV. CHIEF: N/A
FIELDBOOK NO. N/A

CLIENT
UPPER LEACOCK TOWNSHIP
MUNICIPAL AUTHORITY
161 NEWPORT ROAD
LEOLA, PA 17540
CONTACT: ABRAHAM KING, PE

SCALE: 1"=50' — 0, 25', 50', 100', 150'

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NEW HOLLAND PIKE LOW-PRESSURE FORCE MAIN REPLACEMENT PROJECT
FOR
UPPER LEACOCK TOWNSHIP MUNICIPAL AUTHORITY
EROSION & SEDIMENT CONTROL PLAN IV, V & VI
UPPER LEACOCK TOWNSHIP — LANCASTER COUNTY, PA

PROJ. NO. 0571404139

DWG. NO. EC-04

ISSUED FOR BIDDING