TOWN OF WATERTOWN
WATERTOWN, CONNECTICUT

NOTICE OF BID

Falls Avenue #1 over Turkey Brook Culvert Rehabilitation
Watertown Public Works Department

Sealed bids are invited and will be received by the Purchasing Agent of the Town of Watertown at the office of the Purchasing Agent, Town Hall Annex, 424 Main Street, Watertown, Connecticut, until **11:00 a.m., Thursday, May 16, 2019** at which time and place they will be publicly opened and read aloud for furnishing culvert relining on Falls Ave, Oakville, CT.

The Information for Bidders, Form of Bid, Specifications and other contract documents may be obtained or examined at the office of the Purchasing Agent, Town Hall Annex, 424 Main Street, Watertown, Connecticut 06795 or by accessing the Town of Watertown’s website at http://www.watertownct.org. Proposals must be submitted on the forms provided and in a sealed envelope plainly marked “Bid – Culvert Relining – Falls Ave”.

To receive consideration bids must be in the hands of the Purchasing Agent or his authorized representative no later than the day and hour mentioned above.

The Purchasing Agent reserves the right to accept or reject any or all bids; to waive any informality; or to accept any bid deemed in the best interests of the Town of Watertown.

The Town of Watertown reserves the right to take into account the residency of bidders within the Town of Watertown and/or the location of the bidder's business within the Town of Watertown in awarding this bid.

All bids will be considered valid for a period of sixty (60) days.

Jason Warner
Purchasing Agent
Town of Watertown
INFORMATION FOR BIDDERS
TOWN OF WATERTOWN
WATERTOWN, CONNECTICUT 06795

Falls Avenue #1 over Turkey Brook Culvert Rehabilitation
Watertown Public Works Department

BID OPENING: 11:00 a.m., Thursday, May 16, 2019

PROPOSALS RECEIVED
All bids must be in a sealed envelope and received prior to 11:00 a.m., Thursday, May 16, 2019 at the office of the Purchasing Agent, 424 Main Street, Watertown, Connecticut 06795.

PREPARATION OF PROPOSALS
Proposals must be made upon forms contained herein. The blank spaces in the Proposal must be filled in correctly where indicated. The Bidder must state the prices for which he proposes to do each item of the work contemplated. In case of discrepancy where both words and the numerals are requested, the words shall govern. Ditto marks are not considered writing or printing and shall not be used. The Bidder shall sign his Proposal correctly. If the Proposal is made by an individual, his name, post office address and telephone number must be shown. If made by a firm, partnership, or corporation, the Proposal must be signed by an official of the firm, partnership, or corporation authorized to sign contracts, and must show the post office address and telephone number of the firm, partnership, or corporation. Failure to do so may disqualify the bid.

Each bid must be submitted in a sealed envelope bearing on the outside the name of the Bidder, post office address, and name of the project for which the bid is submitted. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed to: The Purchasing Agent, Town Hall Annex, 424 Main Street, Watertown, CT 06795.

All information shall be entered in ink or by typewriter. Mistakes may be crossed out and corrections inserted before submission of your bid. The person signing the bid shall initial corrections in ink.

Corrections and/or modifications received after the closing time specified will not be accepted.

SUBMISSION OF PROPOSALS
All proposals and literature shall be submitted IN DUPLICATE on the proposal form, which is a part of these specifications.

Descriptive literature containing complete specifications must accompany each bid. If a bidder wishes to furnish additional information, more sheets may be added.
Adobe Acrobat® Reader is required to view electronic documents on-line. If you do not have Adobe Acrobat® Reader, you may download it for free from Adobe at http://www.adobe.com/products/acrobat/readstep.html.

Response summaries will be available online at http://www.watertownct.org on the day of the bid opening.

Responses delivered via fax are received subject to the following qualifications and limitations:

1. The Town is not responsible for the confidentiality of the information transmitted.

2. The Town cannot guarantee that its fax equipment will be operational and able to receive transmittals by a particular time and date. It is the Bidder's responsibility to ensure that quotations are received in their entirety and on time at the required location. It is recommended that vendors be advised to call immediately after transmitting a document electronically to confirm complete and accurate receipt by the Town. The Town assumes no liability in the event that a bidder's electronic transmission is not received by the Town in a timely fashion, or is not received either in its entirety or error-free.

3. Bids transmitted electronically which have a bond requirement are subject to the same submittal requirements as those responses delivered via traditional means, such as mail or hand delivery, or as otherwise stipulated by appropriate authority.

**INCURRING COSTS**

The Town of Watertown is not liable for any cost incurred for the preparation of proposals or submission of samples by the firms submitting proposals for the work requested in this bid document or request for proposals.

**FAMILIARITY WITH THE WORK**

Each bidder is considered to have examined the work to fully acquaint himself with the exact existing conditions relating to the work and has fully informed himself as to the work involved and the difficulties and restrictions attending the performance of this bid. Failure to do so will not relieve a bidder of his obligation to furnish all materials, labor and equipment necessary to carry out the work for the consideration set forth in this bid. The submission of a bid will be considered as conclusive evidence that the bidder has made such examination.

Where exploration or inspection data is shown on the Plans and/or specifications or made available to the Bidder, it is understood that such data where obtained in the usual manner and with reasonable care and are to be interpreted and used as the Bidder sees fit. There is no expressed or implied agreement that the data has been correctly indicated, and the Bidder is cautioned to take into account that conditions affecting the work may differ from those indicated.
The Owner assumes no responsibility whatsoever with respect to ascertaining for the Contractor such facts concerning physical characteristics relating to this project. The Bidder agrees that he shall make no claim for and has no right to additional payment or extension of time for completion of the work, or any other concession, because of any interpretations or misunderstanding on his part of this bid, or because of any failure on his part to fully acquaint himself with all conditions relating to the work. Permission for making borings, test pits, destructive tests or other investigations of subsurface conditions will be arranged for by the bidder upon receipt of a written approval by the Town.

CONSIDERATION OF PRIOR SERVICE
Previous performance, quality of service and merchandise will be considered.

ADDENDA AND INTERPRETATIONS & ALTERNATE PROPOSALS
Addenda information will be available online at http://www.watertownct.org. Adobe Acrobat® Reader may be required to view this document. We strongly suggest that you check for any addenda a minimum of forty-eight hours in advance of the bid deadline.

At the time of the opening of bids each bidder will be presumed to have inspected the work and to have read and to be thoroughly familiar with all of the Contract Documents (including all addenda). The failure or omission of any bidder to receive or examine any form, instruction or document shall in no way relieve any bidder from any obligation in respect to his bid.

If any person contemplating submitting a proposal is in doubt as to the true meaning of any part of these specifications, he may submit a written request for an interpretation to the Purchasing Agent. No interpretations as to the meaning of the plans, specifications or other Contract Documents will be made to any bidder orally.

Every request for such interpretation should be in writing addressed (duplicate copy) to the Town of Watertown, Purchasing Agent, 424 Main Street, Watertown, Connecticut 06795, and to be given consideration, must be received at least five (5) days prior to the date fixed for the opening of Bids. Any and all such interpretations and any supplementary instructions will be in the form of written Addenda to the Specifications which, if issued, will be mailed by Registered Mail with Return Receipt Requested to all prospective bidders at the respective addresses furnished for such purposes, not later than three (3) days prior to the date fixed for the opening of bids. Failure of any bidder to receive any such Addendum or interpretations shall not relieve any bidder from any obligations under his bid as submitted. All Addenda so issued shall become part of the Contract Documents. Oral explanations will not be binding on the Town.

The specifications listed are to be interpreted as meaning the minimum acceptable by the Town of
Watertown. Bidders are requested to submit quotations on the basis of these specifications. Alternative bids providing a broader scope and/or services than requested in these specifications may receive consideration providing such equipment and/or service is clearly explained. Any exceptions to the specifications requested herein must be clearly noted in writing and are to be included as a part of your bid proposal. If none are included it will be assumed that there are none.

Definition of the word "complete" means that each unit of the equipment proposed shall include all appurtenances, fasteners, parts, accessories, and services ordinarily catalogued.

An item equal to that named or described in the specifications may be furnished by the Bidder, except where expressly noted as “no substitutions.” The naming of any commercial name, trademark, or other identification shall not be construed to exclude any item of any manufacturer not mentioned by name, nor limit competition, but shall establish a standard of equality only. An item shall be considered equal to the item so named or described if:

A. It is at least equal in quality, durability, appearance, strength and design.

B. It will perform at least equally the function imposed by the design for the work being contracted for or the material being purchased.

C. It conforms substantially, even with deviations, to the detailed requirements for the item in the specifications.

The Bidder shall hold the Town of Watertown, its officers, agents, servants, and employees, harmless from liability of any nature or kind because of use of any copyrighted or uncopyrighted compositions, secret process, patented or unpatented inventions, articles or appliances furnished or used under this bid, and agrees to defend, at his own expense, any and all actions brought against the Town of Watertown or himself because of the unauthorized use of such articles.

QUOTATION LIMITATION
Bidders shall offer only ONE ITEM AND PRICE for each line item bid. If an or equal item is to be bid, the bidder is to select the brand and model that meets or exceeds the specified item, and submit his bid for that item.

ESTIMATE OF WORK
For bidding purposes, the work has been subdivided into unit price items. The quantities shown are to be considered as approximate only. The Purchasing Agent does not expressly or by implication agree that the actual quantity will correspond therewith, but reserves the right to increase or decrease the amount of any item or portion of the work as deemed necessary.

WITHDRAWAL OF BID
Bidders may withdraw their proposals at any time prior to the bid date. No agent/broker shall withdraw or cancel their proposal for a period of sixty (60) days after the bid closing date of 11:00
a.m., Thursday, May 16, 2019. The successful agent/broker shall not withdraw, cancel or modify their proposal.
POWER OF ATTORNEY
Attorneys-in-fact who sign contract bonds must file, with each bond, a certified and effectively dated copy of their power of attorney.

SUBCONTRACTORS
A. Each bidder contemplating the use of any subcontractor shall submit a list of subcontractors as listed on the Bid Form.
B. The apparent low bidder shall file with the Town of Watertown, within five (5) days after the date of bid opening, a complete list of the names and addresses of competent, responsible and qualified subcontractors who are actually to perform major portions of the work. This in no way restricts or limits the requirement that all subcontractors must be approved by the Town.
C. Subcontractors listed on the Bid Form or those previously approved may not be changed without the approval of the Town of Watertown.

Local subcontractors, material suppliers, and labor in the Town of Watertown should be considered and sought insofar, as is practical in the performance of this project.

QUALIFICATION OF BIDDER
In determining the qualifications of a bidder, the Town may consider his record in the performance of any contracts for similar work into which he may have previously entered; and the Town expressly reserves the right to reject the bid of such bidder if such record discloses that such bidder, in the opinion of the Town, has not properly performed such contracts or has habitually, and without just cause, neglected the payment of bills or has otherwise disregarded his obligations to subcontractors, suppliers, state or local codes, men or employees of subcontractors.

The Town may make such investigation as he deems necessary to determine the ability of the bidder to perform the work and the bidder shall furnish to the Town all such information and data for this purpose as the Town may request. The Town reserves the right to reject any bid if the evidence submitted by or the investigation of such bidder fails to satisfy the Town that such bidder is properly qualified, or that such bidder misrepresented material facts in the bid documents.

DISQUALIFICATION OF BIDDERS
More than one proposal from an individual, firm, partnership, corporation, or an association under the same or different names will not be considered. Reasonable grounds for believing that any Bidder is interested in more than one proposal for the work contemplated will cause the rejection of all proposals in which such Bidder is interested. Any or all proposals in which such Bidder is interested will be rejected if there is reason for believing that collusion exists among the Bidders and all participants in such collusion will not be considered in future proposals for the same work. Proposals in which the prices are obviously unbalanced may be rejected. No Contract will be awarded except to competent Bidders capable of performing the class of work contemplated.
DELIVERY
Inasmuch as this work concerns a needed public improvement, the provisions of this bid relating to
the time of delivery, performance and completion of the work are of the essence of this bid.
Accordingly, the successful bidder shall commence work upon receipt of the signed Purchase Order
unless the Town shall authorize or direct a further delay, and shall proceed with the work diligently
so as to permit completion no later than sixty (60) calendar days after receipt of the Town’s Purchase
Order.

Time of delivery shall be stated as the number of calendar days following receipt of the Purchase
Order by the Bidder to receipt of the goods or services by the Town of Watertown.

Prices quoted must include delivery to the Town of Watertown as specified on the Purchase Order.
No charges will be allowed for parking, crating, freight, express or cartage unless specifically stated
and included in this bid.

Time of delivery may be considered in the award.

PAYMENT
The Town, after inspection and acceptance of workmanship, and in consideration of the faithful
performance by the Bidder of all and singular his covenants, promises, and agreements contained
herein, agrees to pay the Bidder for the full completion by him of the work embraced in this
Contract, within (30) Thirty Days of the receipt of the final invoice. When subcontractors or
suppliers are utilized, the successful Bidder for this project shall be required to submit a Mechanics
Lien Waiver, acceptable to the Town, with each progress payment and/or at time of final payment
prior to any payment being made.

Time, in connection with any discount offered, will be computed from the date of delivery to the
Town or from the date a correct invoice is received by the Town's Finance Department, if the latter
date is later than the date of delivery.

Prices will be considered as NET, if no cash or payment discount is shown.

The successful bidder shall submit invoices to the following address:

    Town of Watertown
    Public Works/Engineering Department
    61 Echo Lake Road
    Watertown, CT 06795

IT IS UNDERSTOOD AND AGREED THAT SHOULD A BID BE ACCEPTED, IT WILL
AUTOMATICALLY BECOME THE CONTRACT OR AN ADDENDUM TO ANY
CONTRACT AGREED UPON.
Notification of the bid award will be made by issuance of a purchase order. Bidders are to list their bids on the appropriate attached sheets. Bidders may attach a letter of explanation. A clear notification should be made on the standard bid sheets at the appropriate point of explanation that there is a letter of explanation attached. All bids must be NET prices.

The successful bidder shall submit an itemized invoice to the Town of Watertown for the work as described herein.

The bidder shall be required to submit a Mechanics Lien Waiver, acceptable to the Town of Watertown, with each progress payment and at time of final payment prior to any payment being made.

At the time of award, the successful bidder shall be required to supply the Town of Watertown a Certificate of Good Standing, certifying that the corporation is in fact a valid corporation and presently licensed to conduct business in the State of Connecticut.

SALES TAX
Certain materials and supplies incorporated in the work of this project are exempt from Connecticut Sales Tax. The Bidder shall familiarize himself with current regulations of the State Tax Department. The tax on materials or supplies exempted by such regulations shall not be included as part of the bid. The Town will furnish the successful Bidder sales tax exemption authorization.

CARE AND PROTECTION OF PROPERTY
The Bidder shall take particular care to avoid damages to all private and public property and to private or public improvements within the Town's right of way. He shall make good any damages to the satisfaction of the Town. There shall be no additional compensation for the repair or restoration of private or public property improvements.

COMPLIANCE WITH FEDERAL, STATE AND LOCAL CODES
The Bidder shall be responsible for full compliance with any Federal, State and/or Local codes, laws, regulations and standards, as applicable.

AWARD
The Town of Watertown reserves the right to accept or reject any bid to best serve its interests, or to hold the bids for sixty (60) days before decision.

The Town reserves the right to reject any and all bids (or any part thereof), to waive defects in proposals, or to accept any proposal deemed to be in its best interest.

Exceptions will be considered to the specification provided, providing they are listed and fully explained on a separate page entitled "EXCEPTIONS TO SPECIFICATIONS"
Each exception will be considered as to its degree of impact and total effect on the bid. The purchaser shall determine which (if any taken) exceptions are acceptable, and this determination shall be final.

The Town of Watertown reserves the right:

1) To award bids received on the basis of individual items, or groups of items, or on the entire list of items.

2) To reject any or all bids, or any part thereof.

3) To waive any informality in the bids.

4) The Town of Watertown reserves the right to take into account the residency of bidders within the Town of Watertown and/or the location of the bidder’s business within the Town of Watertown in awarding this bid.

5) To accept the bid that is in the best interest of the Town of Watertown. The Purchasing Agent's decision shall be final.

INSURANCE

A. General:
The Bidder shall be responsible for maintaining insurance coverage in force for the life of the contract of the kinds and adequate amounts to secure all of the Bidder’s obligations under the contract with an insurance company with an AM Best Rating of A - VII or better licensed to write such insurance in Connecticut and acceptable to the Town of Watertown.

The insurer shall provide the Town of Watertown with Certificates of Insurance signed by an authorized representative of the insurance company(ies) prior to the performance of this contract describing the coverage and providing that the insurer shall give the Town of Watertown written notice at least thirty (30) days in advance of any termination, expiration, or any and all change in coverage.

Such insurance or renewals or replacements thereof shall remain in force during the Bidder’s responsibility under this agreement.

The Bidder at his own cost and expense shall procure and maintain all insurance required and shall name the Town of Watertown as an additional insured on all contracts except Worker’s Compensation and Professional Errors & Omissions coverage.

In order to facilitate this requirement for insurance, it is recommended that the bidder forward a copy of this exhibit to the bidder’s insurance representative(s).
B. **Specific Requirements:**

(1) **Workers’ Compensation Insurance**

The Bidder shall provide Workers’ Compensation Insurance required by law and the Employer’s Liability Insurance for at least the amounts of liability for Bodily Injury by accident of $100,000 each accident; Bodily Injury by Disease each employee of $100,000; Bodily Injury by Disease, policy limit of $500,000.

(2) **Commercial General Liability Insurance**

The Bidder shall carry Commercial General Liability policy (Insurance Services Office Incorporated Form CG-0001 or equivalent). A per occurrence limit of $1,000,000 is required. The Aggregate Limit will be not less than $1,000,000.

(3) **Business Automobile Liability Insurance**

The Bidder shall carry Business Automobile Liability Insurance. (Insurance Services Office Incorporated Form CA-00001 or equivalent). A per occurrence limit of $1,000,000 is required. “Any Auto” (symbol 1 or equivalent) is required.

C. **Hold Harmless & Subcontractor’s Requirements:**

The Bidder shall require the same insurance that it is required to carry by the Town of Watertown to be carried by any subcontractors and independent contractors hired by the Bidder and to obtain Certificates of Insurance before subcontractors and independent contractors are permitted to begin work.

The Bidder shall require that the Town of Watertown be named as Additional Insured on all subcontractor’s and independent contractor’s policies before they are permitted to begin work.

The Bidder and all subcontractors and independent contractors and their insurers shall waive all rights of subrogation against the Town of Watertown, and its officers, agents, servants and employees for losses arising from the work performed by each on this contract.

The Bidder assumes and agrees to hold harmless, indemnify, protect and defend the Town of Watertown against any and all liability for injuries and damages to Bidder and to Bidder’s employees, agents, subcontractors and guests, third parties or otherwise incident to or resulting from any and all operations performed by a contractor under any terms of this contract.
D. **Other Data:**

**NOTE 1:** If Bidder is only a vendor shipping goods via Common Carrier only, General Liability is required.

**NOTE 2:** If Bidder is a Professional, Errors & Omission coverage will be required.

**NOTE 3:** The Town reserves the right to amend amounts of coverage required and the types of coverage provided based on work or service to be performed.

**PERMITS**
When required all licenses and permits for complying with any applicable Federal, State, and Municipal laws, codes, regulations in connection with the prosecution of the work shall be obtained by the Bidder, at no additional cost to the Town. The cost of local building permits will be assessed at sixteen cents per one thousand dollars of construction value as declared on the building permit application pursuant to State of Connecticut Statute Sec. 29-263 by the Town of Watertown. The successful contractor will be responsible for payment to the Town of Watertown Building Inspection Department.

**NONDISCRIMINATION IN EMPLOYMENT**
The successful bidder shall agree and warrant that, in the performance of this contract, he will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, sex, religion, or national origin in any manner prohibited by State, Federal, County, or Municipal law. A certification of Nonsegregated Facilities and a Certification Regarding Equal Employment Opportunity shall be considered a part of this contract.

**MECHANICS LIEN WAIVERS**
The successful Bidder shall be required to submit a Mechanics Lien Waiver, acceptable to the Town of Watertown, with each progress payment, and/or at time of final payment, prior to any payment made.

For further technical or administrative information contact Mr. Jason Warner, Purchasing Agent at (860) 945-5260 or via email at warner@watertownct.org.
This project consists of preparing design plans and performing all work related to the relining in a 7'-1" by 5'-0" Plate Arch Culvert (Bridge No. 153-011), approximately 59' long located at 152 Falls Avenue in Oakville, Connecticut in accordance with the project plans and specifications. Uniformed Town Police Officers are required for all work within the roadway. The town will pay for the uniformed officers directly. All work is to be performed in accordance with the State of Connecticut Department of Transportation “Standard Specifications for Roads, Bridges and Incidental Construction, Form 817”, as supplemented and as amended below. It is expressly stated that the specific references to the Form 817 is for the technical requirements stated therein and that this project is not an 817 project nor are all of the other terms of the Form 817 applicable. A copy of the inspection report revision dated November 30, 2012 prepared by Lenard Engineering is included for use of the bidders. A copy of the October 10, 2013 permit from the Conservation Commission/Inland Wetlands Agency is also attached and the Connecticut Department of Energy and Environmental Protection (CT DEEP) as well as the Section 401 Water Quality Certification permit from the Connecticut Department of Energy and Environmental Protection dated May 4, 2018. The contractor is to comply with all of the terms and conditions of the permits which are incorporated into the contract by reference.

**Traffic men:**
Uniformed Police Officers will be required for all work performed in the roadway and shall be provided in accordance with the State of Connecticut Department of Transportation “Standard Specifications for Roads, Bridges and Incidental Construction”, Form 817, as amended. Upon approval by the Engineer, the contractor is to arrange for the Police Officers by calling the Watertown Police Department (WPD) at (860) 945-5200 at least 24 hours in advance. The Town will be responsible for payment of the Officers directly. Contractor shall be responsible for any charges for Uniformed Police Officers incurred as a result of failure to cancel any requested personnel within the (WPD) required time frame.
TECHNICAL SPECIFICATIONS
CULVERT RELINING

Description

The project consists of performing the engineering, hydraulic and hydrologic computations necessary for the preparation of design plans and specifications for the proposed culvert relining and associated work to be used by the contractor to successfully install the selected system. Plans must be sufficiently detailed for the town to review and approve the design and must include the water handling plan, sedimentation and erosion control plan, and details as required. Estimated pre- and post construction flow computations must be provided. Post construction flow computations must demonstrate no negative downstream impact and should be equivalent to or less than the existing velocity and quantity. Roadway is to be kept open to the traveling public at all times. Plan must include sealing all around pipe to eliminate scour potential and installation of intermediate rip rap at inlet and outlet for scour control (see Rip-Rap specifications for more detail).

Upon receipt of the town reviewed and approved shop drawing(s) listed below, water handling and sedimentation and erosion control plans prepared in accordance with the permits, the contractor may perform the construction work as required. The Contractor’s attention is directed to the notification requirements contained in the CT DEEP’s WQC license.

The following submittals are also required for review and approval by the town of Watertown prior to installation:

1. Detailed installation plan
2. Material certification
3. Structural design using AASHTO LFD or LRFD methods, sealed by a Professional Engineer licensed in the state of Connecticut
4. Detailed grouting plan, including: buoyant force calculations, lift heights, lift volumes, grout mix design, grout strengths, grout fluid unit density, initial set time of the grout, pumping pressure, grout port locations and air vent locations, as well as the bulkhead designs
5. Certification by the liner manufacturer that the grouting plan is satisfactory and complies with all precautions and limitations of the liner manufacturer
TECHNICAL SPECIFICATIONS
RIPRAP

Description

The item for “Riprap” shall include all labor, equipment and materials required to provide the riprap of the size and type specified, as shown on the plans or as directed by the Town, gravel base and geotextile, complete and accepted in place according to Form 817 and as shown on the plans. There shall be no separate payment for the excavation, geotextile material, processed gravel, or granular fill under the riprap, but these items shall be included in the price bid. Dimensions of inlet and outlet riprap pads shall be in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control, the 2004 Connecticut Stormwater Quality Manual, or the Department of Transportation’s ConnDOT Drainage Manual, as applicable.

Construction Methods

The excavation of existing material, in accordance with the Requirements of Article 2.02 of the Form 817. Surplus material is to be deposited elsewhere in town, as directed by the Town. Processed gravel base – in accordance with the Requirements of Article 3.04 of the Form 817, as amended. Gravel fill - in accordance with the Requirements of Article 2.02 of the Form 817, as amended. Geotextile material – in accordance with the Requirements of Article 7.55 of the Form 817 except that payment shall be included in the item “Riprap.” Intermediate Riprap – in accordance with Articles 7.03 and M12.02.2 of the Form 817, as amended.

Method of Measurement

This work will not be measured for payment.

Basis of Payment

This work will not be paid for or measured separately but the work necessary for the provision of this item shall be included in the lump sum price bid for the project.
TECHNICAL SPECIFICATIONS
SEDIMENTATION CONTROL SYSTEM

Description

The item for “Sedimentation Control Systems” shall include all labor, equipment and materials required to furnish, place, maintain and remove sedimentation control systems, as shown on the plans or as directed by the Town, in place according to Form 817, as amended. There shall be no separate payment for the cleaning out accumulated sediment or replacing failed system.

Materials

Materials shall conform to the requirements of Section 2.19 of the Form 817, as amended.

Construction Methods

System shall be placed and maintained in accordance with the requirements of Section 2.19 of the Form 817, as amended.

Method of Measurement

This work will not be measured for payment separately:

Basis of Payment

This work will not be paid for separately but shall be included in the lump sum price bid for the project.
TECHNICAL SPECIFICATIONS
HANDLING WATER

Description: Work under this item shall consist of the construction of such temporary flow diversions and bypass culvert, excavation, fill, barriers or other such protective facilities and methods as are necessary for the conduction of water beyond the limits of construction; the unwatering of the site on which the permanent structure is to be constructed; and the removal of such temporary facilities upon the completion of the permanent work or as required. The handling of water shall be in accordance with the requirements of these specifications, Section 1.10 of the Form 817, the attached regulatory permits and as specified elsewhere within these specifications. In accordance with the CT DEEP WQC, the water handling must be certified by a Professional Engineer registered in the state of Connecticut. For the purposes of this specification, such work shall be understood to mean any temporary type of protective facility which the Contractor elects to build or use to satisfy, and which does satisfy, the condition that the permanent structures be placed and built in the dry. The handling of flood flows and the protection of existing structures, and any or all of the finished construction during high water, are included in the scope of the work under this item.

Work Commencement: Not later than two (2) weeks prior to the commencement of any work authorized herein, the Contractor shall submit to the Commissioner of the Department of Energy and Environmental Protection (DEEP), on the Work Commencement Form attached hereto, the name(s) and address(es) of all contractor(s) employed to conduct such work and the expected date for commencement and completion of such work, if any.

Unconfined Instream Work: Unless otherwise noted in a condition of the license, the following conditions apply to projects in non-coastal waters:

Unconfined instream work is limited to the period June I through September 30.

Confinement of a work area by cofferdam techniques using sand bag placement, sheet pile installation (vibratory method only), portadam, or similar confinement devices is allowed any time of the year. The removal of such confinement devices is allowed any time of the year.

Once a work area has been confined, in-water work within the confined area is allowed any time of the year.

The confinement technique used shall completely isolate and protect the confined area from all flowing water. The use of silt boom/curtain or similar technique as a means for confinement is prohibited. Temporary Hydraulic Facilities for Water Handling. If not reviewed and approved as a part of the license application, temporary hydraulic facilities shall be designed by a qualified professional and in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control, the 2004 Connecticut Stormwater Quality Manual, or the Department of Transportation's ConnDOT Drainage Manual, as applicable. Temporary hydraulic facilities may include channels, culverts or bridges which are required for haul roads, channel relocations, culvert installations,
bridge construction, temporary roads, or detours.

**Excavated Materials:** Unless otherwise authorized, all excavated material shall be staged and managed in a manner which prevents additional impacts to wetlands and watercourses.

**Best Management Practices:** The Licensee shall not cause or allow pollution of any wetlands or watercourses, including pollution resulting from sedimentation and erosion. In constructing or maintaining any authorized structure or facility or conducting any authorized activity, or in removing any such structure or facility, the Licensee shall employ best management practices to control storm water discharges, to prevent erosion and sedimentation, and to otherwise prevent pollution of wetlands and other waters of the State. For purposes of the license, "pollution" means "pollution" as that term is defined by CGS section 22a-423. Best Management Practices include, but are not limited, to practices identified in the Connecticut Guidelines for Soil Erosion and Sediment Control as revised, 2004 Connecticut Stormwater Quality Manual, Department of Transportation’s ConnDOT Drainage Manual as revised, and the Department of Transportation Standard Specifications as revised.

**Work Site Restoration:** Upon completion of any authorized work, the Contractor shall restore all areas impacted by construction, or used as a staging area or accessway in connection with such work, to their condition prior to the commencement of such work.

**Inspection:** The Licensee shall allow any representative of the Commissioner of the Connecticut Department of Energy and Environmental Protection or the town of Watertown to inspect the project location at reasonable times to ensure that work is being or has been conducted in accordance with the terms and conditions of this license.

**Materials:** None

**Construction Methods:** The Contractor shall investigate and verify existing stream conditions, and evaluate the need for, and the type of protection and facilities required. Before commencing construction, the Contractor shall furnish the Engineer with details of the plan and methods he proposes to use for handling water and accomplishing the work. The Contractor shall furnish pipe strength calculations prepared by a State of Connecticut licensed professional engineer for all pipes used for haul roads. The furnishing of such plans and methods shall not relieve the Contractor of any of his responsibility for the safety of the work and for the successful completion of the project.

No separate payment will be made for temporary sheet piling for the containment of the main stream channel flow or for flow diversion. The height of any other sheet piling, flow diversions and barriers shall be elected by the Contractor to provide reasonable protection from flooding and provide minimum protection as shown on the plans. All such temporary structures or facilities shall be safely designed, extended to sufficient depth and be of such dimensions and water-tightness so as to assure construction of the permanent work in the dry. They shall not interfere with proper performance of
the work. Their construction shall be such as to permit excavation for the permanent work to the limits shown on the plans. Interior dimensions shall give sufficient clearance for construction and inspection of forms. Movements or failures of the temporary protection facilities, or any portions thereof, which prevents proper completion of the permanent work, shall be corrected at the sole expense of the Contractor.

Any pumping from within the areas of construction shall be done in such a manner as to prevent the possibility of movement of water through any fresh concrete. No pumping will be permitted during placing of concrete or for a period of 24 hours thereafter, unless it be done from a suitable sump properly located and with sufficient pumping capacity to protect against damage from sudden rising of water. Any pumped water must be discharged in accordance with the requirements of this specification and shall not create any disturbance or discoloration downstream. Unless otherwise provided, or directed, all such temporary protective work shall be removed and disposed of in an approved manner when no longer required.

The Contractor shall be responsible for the scheduling of work under this item so as not to interfere with any sequence of operations developed for this project. Delays as a result of work required under this item shall not constitute a claim for an extension of contract time.

**Method of Measurement:** This item, being paid for on a lump sum basis, will not be measured for payment.

**Basis of Payment:** Payment for this item will be made at the contract lump sum price for "Handling Water," complete and accepted, which price shall include all plans, certifications, tools, material, equipment, labor and work incidental to the construction; reconstruction; if required; dewatering, including pumping, handling of the stream flow during construction; the removal and disposal of all protective works or facilities; disposal of water removed from the construction; damages incurred by the Contractor; and any damages to existing facilities and to the work in progress, materials or equipment from flows or high stages of the stream. The lump sum payment for "Handling Water" shall also include all excavation and filling required for temporarily relocating watercourse.

<table>
<thead>
<tr>
<th>Pay Item</th>
<th>Pay Unit</th>
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</thead>
<tbody>
<tr>
<td>Handling Water</td>
<td>LS</td>
</tr>
</tbody>
</table>
TECHNICAL SPECIFICATIONS  
MAINTENANCE AND PROTECTION OF TRAFFIC

Article 9.71.01 – DOT Form 817 Description is supplemented by the following:

The Contractor shall maintain and protect traffic as follows and as limited in the Special Provision "Prosecution and Progress":

The Contractor shall maintain and protect one lane of through traffic in each direction, each lane on a paved travel path not less than 11 feet in width.

Excepted therefrom will be those periods, during the allowable periods, when the Contractor is actively working, at which time the Contractor will be allowed to maintain and protect at least an alternating one-way traffic operation on a paved travel path not less than 12 feet in width. The length of the alternating one-way traffic operation shall not exceed 300 feet.

COMMERCIAL AND RESIDENTIAL DRIVEWAYS

The Contractor shall maintain access to and egress from all commercial and residential driveways throughout the project limits. The Contractor will be allowed to close said driveways to perform the required work during those periods when the businesses are closed unless permission is granted from the business owner to close the driveway during business hours. If a temporary closure of a residential driveway is necessary, the Contractor shall coordinate with the owner to determine the time period of the closure.

Uniformed Traffic Control Officers

The town of Watertown Police Department will determine whether or not Uniformed traffic Control Officers are required. Arrangements for Uniformed Traffic Control officers can be made at (860) 945-5200. The Contractor will be responsible for payment of any costs incurred due to the failure to cancel Uniformed Traffic Control Officers within the time period as specified by the Police Department. The town of Watertown will pay for these services directly.

Article 9.71.03 - Construction Method is supplemented as follows:

SIGNING

The Contractor shall maintain all existing overhead and side-mounted signs throughout the project limits during the duration of the project. The Contractor shall temporarily relocate existing signs and sign supports as many times as deemed necessary and install temporary sign supports and foundations if necessary and as directed by the Engineer. The temporary relocation of any existing signs and supports, and the furnishing, installation and removal of any temporary supports and
foundations, shall be paid for under the item "Maintenance and Protection of Traffic."

When all work is completed, the Contractor shall remove existing signs and install new signs as shown on the Signing and Pavement Marking Plans contained in the contract plans.

REQUIREMENTS FOR WINTER

The Contractor shall schedule a meeting with representatives of the Town to determine what interim traffic control measures the Contractor must accomplish for the winter to provide safety to the motorist and permit adequate snow removal procedures.

SIGNING PATTERNS

The Contractor shall erect and maintain all signing patterns in accordance with the traffic control plans contained herein. Proper distances between advance warning signs and proper taper lengths are mandatory.

Pavement Markings - Secondary and Local Roadways

During construction, the Contractor shall maintain all pavement markings on paved surfaces on all roadways throughout the limits of the project.

Interim Pavement Markings

The Contractor shall install painted pavement markings, which shall include centerlines, shoulder edge lines, lane lines (broken lines), lane-use arrows, and stop bars, on each intermediate course of bituminous concrete pavement and on any milled surface by the end of the work day/night. If the next course of bituminous concrete pavement will be placed within seven days, shoulder edge lines are not required. The painted pavement markings will be paid under the appropriate items.

If the Contractor will install another course of bituminous concrete pavement within 24 hours, the Contractor may install Temporary Plastic Pavement Marking Tape in place of the painted pavement markings by the end of the work day/night. These temporary pavement markings shall include centerlines, lane lines (broken lines) and stop bars; shoulder edge lines are not required. Centerlines shall consist of two 4-inch-wide yellow markings, 2 feet in length, side by side, 4 to 6 inches apart, at 40-foot intervals. No passing zones should be posted with signs in those areas where the final centerlines have not been established on two-way roadways. Stop bars may consist of two 6-inch-wide white markings or three 4-inch-wide white markings placed side by side. The Contractor shall remove and dispose of the Temporary Plastic Pavement Marking Tape when another course of bituminous concrete pavement is installed. The cost of furnishing, installing and removing the Temporary Plastic Pavement Marking Tape shall be at the Contractor's expense.
If an intermediate course of bituminous concrete pavement will be exposed throughout the winter, then Epoxy Resin Pavement Markings should be installed unless directed otherwise by the Town.

**Final Pavement Markings**

In accordance with Section 12.10 entitled "Epoxy Resin Pavement Markings, Symbols, and Legends," the Contractor should install permanent Epoxy Resin Pavement Markings on the final course of bituminous concrete pavement by the end of the work day/night. If the permanent pavement markings are not installed by the end of the work day/night, then Temporary Plastic Pavement Marking Tape shall be installed as described above and the permanent Epoxy Resin Pavement Markings shall be installed by the end of the work day/night on Friday of that week.

If Temporary Plastic Pavement Marking Tape is installed, the Contractor shall remove and dispose of these markings when the permanent Epoxy Resin Pavement Markings are installed. The cost of furnishing, installing and removing the Temporary Plastic Pavement Marking Tape shall be at the Contractor's expense.

NOTE: Painted pavement markings will not be allowed as a substitution for either the permanent Epoxy Resin Pavement Markings or the Temporary Plastic Pavement Marking Tape on the final course of bituminous concrete pavement.

**Article 9.71.05 – Basis of Payment is supplemented by the following:**

The contract lump sum price for "Maintenance and Protection of Traffic" shall also include furnishing, installing, and removing the material for the temporary traversable slope in those areas where a longitudinal dropdown exists.

If there is no method for payment for the temporary transition in those areas where a transverse dropdown exists, then the contract lump sum price for the "Maintenance and Protection of Traffic" shall also include furnishing, installing, and removing the material for the temporary transition.

The contract lump sum price for "Maintenance and Protection of Traffic" shall also include temporarily relocating existing signs and sign supports as many times as deemed necessary and furnishing, installing, and removing temporary sign supports and foundations if necessary, during construction of the project.
WORK IN TRAVEL LANE AND SHOULDER
TWO LANE HIGHWAY
ALTERNATING ONE-WAY TRAFFIC OPERATIONS

HAND SIGNAL METHODS TO BE USED BY UNIFORMED FLAGGERS

THE FOLLOWING METHODS FROM SECTION 6E.07, FLAGGER PROCEDURES, IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," SHALL BE USED BY UNIFORMED FLAGGERS WHEN DIRECTING TRAFFIC THROUGH A WORK AREA. THE STOP/SLOW SIGN PADDLE (SIGN NO. 80-9950) SHOWN ON THE TRAFFIC STANDARD SHEET TR-1220 G1, ENTITLED, "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" SHALL BE USED.

A. TO STOP TRAFFIC:

TO STOP ROAD USERS, THE FLAGGER SHALL FACE ROAD USERS AND ARM THE STOP PADDLE FACE TOWARD ROAD USERS IN A STATIONARY POSITION WITH THE ARM EXTENDED HORIZONTALLY AWAY FROM THE BODY. THE FREE ARM SHALL BE HELD WITH THE PALM OF THE HAND ABOVE SHOULDER LEVEL TOWARD APPROACHING TRAFFIC.

B. TO DIRECT TRAFFIC TO PROCEED:

TO DIRECT STOPPED ROAD USERS TO PROCEED, THE FLAGGER SHALL FACE ROAD USERS WITH THE SLOW PADDLE FACE ARMS TOWARD ROAD USERS IN A STATIONARY POSITION WITH THE ARM EXTENDED HORIZONTALLY AWAY FROM THE BODY. THE FLAGGER SHALL MOTION WITH THE FREE HAND FOR ROAD USERS TO PROCEED.

C. TO ALERT OR SLOW TRAFFIC:

TO ALERT OR SLOW TRAFFIC, THE FLAGGER SHALL FACE ROAD USERS WITH THE SLOW PADDLE FACE ARMS TOWARD ROAD USERS IN A STATIONARY POSITION, WITH THE ARM EXTENDED HORIZONTALLY AWAY FROM THE BODY. TO FURTHER ALERT OR SLOW TRAFFIC, THE FLAGGER HOLDING THE SLOW PADDLE FACE TOWARD ROAD USERS MAY MOTION UP AND DOWN WITH THE FREE HAND, PALM DOWN.
PLEASE

IT IS A REQUIREMENT OF THIS BID THAT EACH PROPOSAL SUBMITTED MUST HAVE A DUPLICATE COPY ATTACHED.

YOUR COOPERATION IS APPRECIATED
TOWN OF WATERTOWN
WATERTOWN, CONNECTICUT 06795

BID PROPOSAL

Falls Avenue #1 over Turkey Brook Culvert Rehabilitation
Watertown Public Works Department

BID OPENING: 11:00 a.m., Thursday, May 16, 2019

TO: Jason Warner, Purchasing Agent
   Town of Watertown
   Town Hall Annex
   424 Main Street
   Watertown, CT 06795

The undersigned, as bidder, agrees to furnish labor, equipment and materials as specified and declares that no person or persons, other than those named herein, are interested in this Proposal; that this Proposal is made without collusion with any person, firm, or corporation; that he has carefully examined the location of the proposed work; that no person or persons acting in any official capacity for the Town is directly or indirectly interested therein or in any portion of the profit thereof; and that he proposes and agrees, if this Proposal is accepted, to provide all necessary equipment, tools, labor and deliver and to do all work and furnish all materials specified in the manner and time therein prescribed, and according to the requirements of the Town as therein set forth, and that he will take in full payment therefor, the following unit prices and lump sums, to wit:

FIRM _____________________________________________

Name

__________________________________________________

Street

City State Zip Code

NAME ___________________________________________

Please Print

TELEPHONE NUMBER _______________________________________

FAX NUMBER ___________________________________________

EMAIL ADDRESS ___________________________________________

SIGNED ___________________________ DATE __________________
NOTE: The Computed Totals are for convenience in initial comparison of bids and are not an official part of this Proposal. The Town reserves the right to eliminate any Item or portion of the work, which it deems to be in its best interest.

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<thead>
<tr>
<th>Description/Unit Price</th>
<th>Quantities</th>
<th>Totals</th>
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<tbody>
<tr>
<td><strong>Item # 1</strong></td>
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<tr>
<td><strong>Handling Water</strong></td>
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<tr>
<td>The lump sum price of</td>
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<td>_______________________________ Dollars</td>
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<td>and ___________________________ Cents</td>
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</tr>
<tr>
<td>($ ____________) per Lump Sum (LS).</td>
<td>1 LS</td>
<td>$ ______</td>
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<tr>
<td><strong>Item # 2</strong></td>
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<tr>
<td><strong>Furnishing and Installing New Culvert Lining System, Complete in Place</strong></td>
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<td>and ___________________________ Cents</td>
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<tr>
<td>($ ____________) per each.</td>
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<td>$ ______</td>
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<td><strong>Item # 3</strong></td>
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<td><strong>Maintenance and Protection of Traffic</strong></td>
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<td>The lump sum price of</td>
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<td>($ ____________) per Lump Sum (LS).</td>
<td>1 LS</td>
<td>$ ______</td>
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Computed Total: $ ______

Payment Terms ____________________________________________

Time to Completion ___________________________ (Working Days)

Warranty ____________________________________________

Payment Terms ____________________________________________

31
Start Date: _________________________  Completion Date __________________________

Have you taken any exceptions or have you deviated from our printed specification and if so, are such suggested changes clearly noted on the page provided for exceptions to specifications?

___ yes  ___ no

**EXCEPTIONS TAKEN TO SPECIFICATIONS**

______________________________________________________________________________
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## RECEIPT OF ADDENDA

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<thead>
<tr>
<th>ADDENDUM #</th>
<th>SIGNATURE</th>
<th>DATE</th>
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</tbody>
</table>

NAME OF BIDDER: ____________________________________________________

OFFICIAL ADDRESS: ____________________________________________________

PHONE NUMBER: ______________________________________________________

BY: ___________________________________ TITLE: _________________________
(Please Print)

DATE: ______________________________________________________________

SIGNATURE: _________________________________________________________
PROPOSED SUBCONTRACTORS

FIRM ________________________________________________________________
Name __________________________________________________________________
Street __________________________________________________________________
City State Zip Code
CONTACT __________________________ TELEPHONE __________________________
Please Print
TYPE OF WORK TO BE PERFORMED ________________________________________

-----------------------------------------------------------------------------

FIRM ________________________________________________________________
Name __________________________________________________________________
Street __________________________________________________________________
City State Zip Code
CONTACT __________________________ TELEPHONE __________________________
Please Print
TYPE OF WORK TO BE PERFORMED ________________________________________

-----------------------------------------------------------------------------

FIRM ________________________________________________________________
Name __________________________________________________________________
Street __________________________________________________________________
City State Zip Code
CONTACT __________________________ TELEPHONE __________________________
Please Print
TYPE OF WORK TO BE PERFORMED ________________________________________

-----------------------------------------------------------------------------
REFERENCES
Please list a minimum of three references of similar work performed within the last three years.

FIRM ____________________________________________

Name ____________________________________________

Street ____________________________________________

City ___________________________ State __________ Zip Code

CONTACT __________________________ TELEPHONE __________________________

Please Print

TYPE OF WORK TO BE PERFORMED __________________________________________

__________________________________________

FIRM ____________________________________________

Name ____________________________________________

Street ____________________________________________

City ___________________________ State __________ Zip Code

CONTACT __________________________ TELEPHONE __________________________

Please Print

TYPE OF WORK TO BE PERFORMED __________________________________________

__________________________________________

FIRM ____________________________________________

Name ____________________________________________

Street ____________________________________________

City ___________________________ State __________ Zip Code

CONTACT __________________________ TELEPHONE __________________________

Please Print

TYPE OF WORK TO BE PERFORMED __________________________________________