

APPENDIX A

Description of Materials, Supplies, Equipment and Bid Price

Contractor: Reed & Reed

SCHEDULE OF ITEMS

- The Bid must be Delivered to the precise location and by the precise time set forth in the Notice to Contractors or any applicable Bid Amendment.
- Required unit prices, lump sum prices and/or bid amounts must be provided and legible.
- Do not make handwritten changes to the bid documents.

Bidders are required to bid all Items.

Item Description	Quantity and Units	Unit Price	Bid Amount
910.301 - Special Work, Structural Steel (964,088 lbs.)	LS	\$	\$
825.60 12" - HDPE Water Main	560/LF	\$	\$
822.305 - Water Main Insulation and Jacketing	558/LF	\$	\$
801.07 – HDPE Temporary Sewer Bypass	560/LF	\$	\$
TOTAL			\$

Bids are not accepted by email or FAX. If a paper Bid is to be sent express, please take note that overnight services do not always arrive in time. Packages using express services should be sent to Maine Department of Transportation, 24 Child Street, Augusta, Maine.

By signing below, the Bidder (1) represents that the Bidder has examined the Contract Agreement contained in the Bid Documents, the Contract, all documents referenced in said Contract, and the site and scope of work, (2) does hereby bid and offer to enter into this contract to construct and/or perform the Work in strict accordance with the terms and conditions of this Contract at the unit prices bid in the attached "Schedule of Items", (3) represents that the Bidder has given the Department notice of any errors or ambiguities related to the documents or the work that have been discovered by the Bidder, (4) represents that the above-named organization is the legal entity entering into the resulting contract with the Department if they are awarded the contract and, (5) represents that the undersigned is authorized to enter contractual obligations on behalf of the above-named organization.

Bidder acknowledges that the properly completed and signed Schedule of Items provided with the Bid constitutes the Bidder's offer and that this offer shall remain open for 30 calendar days after the date of opening of bids.

The Bidder hereby certifies, to the best of its knowledge and belief that: the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with its bid, and its subsequent contract with the Department.

Use pen and ink to complete paper bids. Signatures shall be original. Stamped and copied signatures will not be accepted.

Arthur J. Cavanagh, President & Chief Operating Officer

Date

**Electronic bidding will NOT be available
for this bid.**

**Bids will NOT be accepted
by email or fax.**

**SIGNED PAPER BIDS ARE
REQUIRED
and may be
mailed, sent express or hand delivered.**

Description

This scope narrative and design detail attachments outlines the material included in Reed & Reed's bid price for initial purchase of material. This material purchase is in support of a Summer 2023 construction start of a temporary detour bridge for the Old Town Stillwater Bridge replacements. The delivery location is Reed & Reed's yard located at 275 River Road, Woolwich, ME 04579.

Steel Procurement:

The scope of work covered under this steel procurement bid price is for the purchase and delivery of steel material types, sized and quantities listed here. This material takeoff is based on specific detour bridge design details based on a 10-span detour with 9-piers spaced at 52'4" on-center.

This material purchase is for a portion of the superstructure steel elements that require an early release to meet the planned construction schedule.

This scope is for a portion of material (shapes) only and does not include contractor fabrication to assemble components (drilling and attaching diaphragms, stiffener plates, etc.) for the actual detour construction.

Steel Material List:

Location	Section	Length	QTY per Span/Bent Cap	No. Spans / Bent Caps	Total QTY Needed	Weight (lbs.)
Track Beam	W36x232	52	4	10	40	482,560
Roadway Beam	W36x160	52	4	10	40	332,800
Bents (Caps)	W36x135	40	2	9	18	97,200
Diaphragms	C15x33.9	20	5	10	76	51,528
Total Weight:						964,088

Utility Procurement:

The scope of work covered under this bid price is for the purchase and delivery of utility materials outlined here. This material purchase is in support of a Summer 2023 construction start of a temporary detour bridge for the Old Town Stillwater Bridge replacements. The delivery location is expected to be Reed & Reed's Woolwich yard.

ON-DETOUR BRIDGE - Utility Material List:

QTY	Units	Description
		TEMP WATER
560	FT	12" Water Pipe
558	FT	12" Water Pipe Insulation
		TEMP SEWER
560	LF	6" Sewer Pipe

Description The Contractor shall furnish and deliver the materials listed in the Schedule of Items in this Appendix in accordance with the contract documents. The materials must meet the requirements of this Contract, the Plans, the State of Maine, Department of Transportation, Standard Specifications, March 2020 Edition and Standard Details March 2020 Edition as updated through advertisement, and Supplemental Specifications.

Delivery The Contractor shall cause the material to be delivered to their yard at 275 River Road, Woolwich, ME 04579 and stored there until the Department and Contractor agree on a subsequent temporary structures construction contract. If the Department and the Contractor fail to reach agreement on a temporary structures contract, the Contractor shall store the material for up to one year.

Contract Administrator

The contract administrator for this contract will be:

Name: Andrew Lathe
Title: Project Manager
Address: Maine Department of Transportation
16 State House Station Road, Augusta, ME 04333-0016

The Contractor shall submit invoices to the Contract Administrator as described in this contract. The Department may assign a designated alternate to the Contract Administrator. The Contractor will be notified of any such change.

Invoices and Payments The Contractor shall submit an itemized bill to the Department for materials following delivery for approval and payment. At a minimum, invoices shall include the following information:

Contractor name, address & Contract Number
Invoice Date & Number
Dates of Delivery
Items and Quantities at Bid Price

The Department will pay based upon the materials delivered at the prices bid and the invoices approved. Payments to the Contractor shall be full compensation for furnishing all labor,

equipment, materials, services, and incidentals used to supply the materials under the Contract in a complete and acceptable manner, and for all risk, loss, damage, or expense of any kind arising from the nature or prosecution of the Work. The Department may withhold payments claimed by the Contractor on account of incomplete or incorrect invoices or materials that are defective or not in conformance with the contract.

Material Quality Materials and manufactured products shall be new unless otherwise specified, free from defect, and in conformity with the Contract. If there is no applicable standard set forth in this Contract for a particular item, then the item shall be in accordance with industry standards prevailing at the time of bid. The Department has the authority to inspect all Materials and every detail of the Work. The Department may reject the finished product if any of the components do not comply with the specifications. The Department may reject materials not conforming to the Specifications at any time.

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Pursuant to 23 MRSA § 52**

1) **WARRANTY.** Contractor warrants:

- a) That all articles and services to be supplied by it under this contract are fit and sufficient for the purpose intended;
- b) That all articles and services covered by this contract will conform to the specifications, drawing samples, symbols or other description specified by the Department;
- c) That such articles are merchantable, good quality and free from defects whether patent or latent in material and workmanship;
- d) That all workmanship, materials and articles to be provided are of the best grade and quality; and,
- e) That it has good and clear title to all articles to be supplied by it and the same are free and clear from all liens, encumbrances and security interest.

Neither the final certificate of payment nor any provision herein, nor partial nor entire use of the articles provided shall constitute an acceptance of work not done in accordance with this Contract or relieve the Contractor from liability in respect of any warranties or responsibility for faulty material or workmanship. The Contractor shall remedy any defects in the materials and articles delivered pursuant to this Contract and pay any damages resulting from such defects which shall appear within 1 year from the date of final acceptance of the materials and articles provided hereunder. The Department shall give written notice of observed defects with reasonable promptness.

- 2) **TAXES.** Contractor agrees that, unless otherwise indicated in this Contract, the prices herein do not include federal, state or local sales, or use the tax from which an exemption is available for purposes of this order. Contractor agrees to accept and use tax exemption certificates when supplied by the Department as applicable. In case it shall ever be determined that any tax included in the prices herein was not required to be paid by Contractor, Contractor agrees to notify the Department and to make prompt application for the refund thereof, to take all proper steps to procure the same and when received to pay the same to the Department.
- 3) **PACKING & SHIPMENT.** Deliveries shall be made as specified without charge for boxing, shipping or storage, unless otherwise specified. Articles shall be suitably packed to secure lowest transportation cost and to conform with the requirements of common carriers and any applicable specifications. Order numbers and symbols must

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be plainly marked on all invoices, packages, bills of lading and shipping orders. Bill of lading should accompany each invoice. Count or weight shall be final and conclusive on shipments not accompanied by packing lists. Shipping terms F.O.B. destination.

- 4) **DELIVERY.** Delivery should be strictly in accordance with delivery schedule. Articles fabricated beyond the Department's releases are at Contractor's risk. Contractor shall not make material commitments or production arrangements in excess of the amount or in advance of the time necessary to meet delivery schedule. Unless otherwise specified herein, or receipt of written approval, no deliveries shall be made in advance of the Department's delivery schedule. Neither party shall be liable for excess costs of deliveries or defaults due to causes beyond its control and without its fault or negligence, provided, however, that when the Contractor has reason to believe that the deliveries will not be made as scheduled, written notice setting forth the cause of the anticipated delay will be given immediately to the Department. If the Contractor's delay or default is caused by the delay or default of a subcontractor, such delay or default shall be excusable only if it arose out of causes beyond the control of both Contractor and subcontractor and without fault of negligence or either of them and the articles or services to be furnished were not obtainable from other sources in sufficient time to permit Contractor to meet the required delivery schedule.
- 5) **REMEDY.** If Contractor's deliveries fail to meet such schedule, the Department, without limiting its other remedies, may direct expedited shipping, and the difference between the expedited routing and the order routing costs shall be paid by the Contractor.
- 6) **INSPECTION.** All articles and work will be subject to final inspection and approval after delivery, notwithstanding prior payment, it being expressly agreed that payment will not constitute final acceptance. The Department at its option may either reject any article or work not in conformity with the requirements and terms of this order, or re-work the same at Contractor's expense. The Department may reject an entire shipment of similar articles if a sample inspection discloses that ten (10%) percent of the articles inspected are defective. This may be waived if the Contractor agrees to reimburse the Department for the cost of a complete inspection of the articles included in such shipment. Rejected material will be returned at Contractor's risk and expense at the full invoice price plus applicable transportation charges, if any. No replacement of defective articles of work shall be made unless specified by the Department.

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- 7) **BENEFITS AND DEDUCTIONS.** If the Contractor is an individual, the Contractor understands and agrees that he/she is an independent contractor for whom no Federal or State Income Tax will be deducted by the Department, and for whom no retirement benefits, survivor benefit insurance, group life insurance, vacation and sick leave, and similar benefits available to State employees will accrue. The Contractor further understands that annual information returns, as required by the Internal Revenue Code or State of Maine Income Tax Law, will be filed by the State Controller with the Internal Revenue Service and the State of Maine Bureau of Revenue Services, copies of which will be furnished to the Contractor for his/her Income Tax records.

- 8) **INDEPENDENT CAPACITY.** In the performance of this Contract, the parties hereto agree that the Contractor, and any agents and employees of the Contractor shall act in the capacity of an independent contractor and not as officers or employees or agents of the State.

- 9) **DEPARTMENT'S REPRESENTATIVE.** The Contract Administrator shall be the Department's representative during the period of this Contract. He/she has authority to curtail services if necessary to ensure proper execution. He/she shall certify to the Department when payments under the Contract are due and the amounts to be paid. He/she shall make decisions on all claims of the Contractor.

- 10) **CHANGES IN THE WORK.** The Department may make changes to its order, the Contract Amount will be amended accordingly, these changes will not invalidate this Contract. In no event shall Contractor fail or refuse to continue the performance of its obligations under this Contract because of the inability of the parties to agree on an adjustment or adjustments. Any monetary adjustment or any substantive change in the articles or materials shall be in the form of an amendment, signed by both parties and approved by the MaineDOT. Said amendment must be effective prior to delivery of the articles or materials.

- 11) **SUBLETTING, ASSIGNMENT OR TRANSFER.** The Contractor shall not sublet, sell, transfer, assign or otherwise dispose of this Contract or any portion thereof, or of its right, title or interest therein, without written request to and written consent of the Contract Administrator. No subcontracts or transfer of Contract shall in any case release the Contractor of its liability under this Contract.

- 12) **PERSONNEL.** The Contractor warrants that it has not employed or contracted with any company or person, other than for assistance with the normal study and preparation of a proposal, to solicit or secure this Contract and that it has not paid, or agreed to pay, any company or person, other than a bona fide employee working solely for the Contractor, any fee, commission, percentage, brokerage fee, gifts, or

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any other consideration, contingent upon, or resulting from the award for making this Contract. For breach or violation of this warranty, the Department shall have the right to annul this Contract without liability or, in its discretion to otherwise recover the full amount of such fee, commission, percentage, brokerage fee, gift, or contingent fee.

13) **EQUAL EMPLOYMENT OPPORTUNITY.** During the performance of this Contract, the Contractor agrees as follows:

- a) The Contractor shall not discriminate against any employee or applicant for employment relating to this Contract because of race, color, religious creed, sex, national origin, ancestry, age, physical or mental disability, or sexual orientation, unless related to a bona fide occupational qualification. The Contractor shall take affirmative action to ensure that applicants are employed and employees are treated during employment, without regard to their race, color, religion, sex, age, national origin, physical or mental disability, or sexual orientation.

Such action shall include but not be limited to the following: employment, upgrading, demotions, or transfers; recruitment or recruitment advertising; layoffs or terminations; rates of pay or other forms of compensation; and selection for training including apprenticeship. The Contractor agrees to post in conspicuous places available to employees and applicants for employment notices setting forth the provisions of this nondiscrimination clause.

- b) The Contractor shall, in all solicitations or advertising for employees placed by or on behalf of the Contractor relating to this Contract, state that all qualified applicants shall receive consideration for employment without regard to race, color, religious creed, sex, national origin, ancestry, age, physical or mental disability, or sexual orientation.
- c) The Contractor shall send to each labor union or representative of the workers with which it has a collective bargaining agreement, or other agreement or understanding, whereby it is furnished with labor for the performance of this Contract a notice to be provided by the contracting agency, advising the said labor union or workers' representative of the Contractor's commitment under this section and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- d) The Contractor shall inform the Department's Equal Employment Opportunity Coordinator of any discrimination complaints brought to an external regulatory body (Maine Human Rights Commission, EEOC, Office of Civil Rights) against

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their agency by any individual as well as any lawsuit regarding alleged discriminatory practice.

- e) The Contractor shall comply with all aspects of the Americans with Disabilities Act (ADA) in employment and in the provision of service to include accessibility and reasonable accommodations for employees and clients.
- f) Contractors and subcontractors with contracts in excess of \$50,000 shall also pursue in good faith affirmative action programs.
- g) The Contractor shall cause the foregoing provisions to be inserted in any subcontract for any work covered by this Contract so that such provisions shall be binding upon each subcontractor, provided that the foregoing provisions shall not apply to contracts or subcontracts for standard commercial supplies or raw materials.

14) **STATE EMPLOYEES NOT TO BENEFIT.** No individual employed by the State at the time this Contract is executed or any time thereafter shall be admitted to any share or part of this Contract or to any benefit that might arise therefrom directly or indirectly that would constitute a violation of 5 MRSA § 18 or 17 MRSA § 3104. No other individual employed by the State at the time this Contract is executed or any time thereafter shall be admitted to any share or part of this Contract or to any benefit that might arise therefrom directly or indirectly due to his employment by or financial interest in the Contractor or any affiliate of the Contractor. The Contractor shall cause the foregoing provisions to be inserted in any subcontract for any work covered by this Contract so that such provisions shall be binding upon each subcontractor, provided that the foregoing provisions shall not apply to contracts or subcontracts for standard commercial supplies or raw materials.

15) **MATERIAL SAFETY DATA SHEETS.** All manufacturers, importers, suppliers, or distributors of hazardous chemicals doing business in this State must provide a copy of the current material safety data sheet for any hazardous chemical to their direct purchasers of that chemical.

16) **ACCESS TO RECORDS.** The Contractor shall maintain all books, documents, payrolls, papers, accounting records and other evidence pertaining to this Contract and make such materials available at its offices at all reasonable times during the period of this Contract and for such subsequent period as specified under Maine Uniform Accounting and Auditing Practices for Community Agencies (MAAP) rules. The Contractor shall allow inspection of pertinent documents by the Department or

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any authorized representative of the State of Maine or Federal Government, and shall furnish copies thereof, if requested.

- 17) **TERMINATION.** The performance of work under the Contract may be terminated by the Department in whole, or in part, whenever the Contract Administrator determines that such termination is in the best interest of the Department including but not limited to the following circumstances:
- (a) The Contractor fails to make delivery of articles, or to perform services within the time or time specified herein, or
 - (b) The Contractor fails to make delivery of articles, or specified materials, or
 - (c) If Contractor defaults under any other term or condition of this contract, or
 - (d) If Contractor fails to make progress as to endanger the performance of this contract in accordance with its terms; or,
 - (e) If Contractor is adjudged bankrupt, or if it makes a general assignment for the benefit of its creditors or if a receiver is appointed on account of its insolvency.

In the event that the Division terminates this agreement in whole or in part pursuant to this paragraph, the Division may procure (articles and services similar to those so terminated) upon such terms and in such manner as deemed appropriate by the Department, and Contractor shall be liable to the Department for any excess cost incurred.

- 18) **GOVERNMENTAL REQUIREMENTS.** The Contractor warrants and represents that it will comply with all governmental ordinances, laws and regulations.
- 19) **GOVERNING LAW.** This Contract is pursuant to 23 M.R.S.A. §52, and shall be governed in all respects by the laws, statutes, and regulations of the United States of America and of the State of Maine. Any legal proceeding against the State regarding this Contract shall be brought in State of Maine administrative or judicial forums. The Contractor consents to personal jurisdiction in the State of Maine.
- 20) **STATE HELD HARMLESS.** The Contractor agrees to indemnify, defend and save harmless the State, its officers, agents and employees from any and all claims, costs, expenses, injuries, liabilities, losses and damages of every kind and description (hereinafter in this paragraph referred to as “claims”) resulting from or arising out of the performance of this Contract by the Contractor, its employees, agents, or

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subcontractors. This indemnification includes all legal costs and other expenses of defense against any asserted claims to which this indemnification applies. This indemnification does not extend to a claim that results solely and directly from (i) the Department's negligence or unlawful act, or (ii) action by the Contractor taken in reasonable reliance upon an instruction or direction given by an authorized person acting on behalf of the Department in accordance with this Contract.

- 21) **NOTICE OF CLAIMS.** The Contractor shall give the Department Contract Administrator immediate notice in writing of any legal action or suit filed related in any way to the Contract or which may affect the performance of duties under the Contract, and prompt notice of any claim made against the Contractor by any subcontractor which may result in litigation related in any way to the Contract or which may affect the performance of duties under the Contract.
- 22) **NON-APPROPRIATION.** Notwithstanding any other provision of this Contract, if the State does not receive sufficient funds to fund this Contract and other obligations of the State, if funds are de-appropriated, or if the State does not receive legal authority to expend funds from the Maine State Legislature or Maine courts, then the State is not obligated to make payment under this Contract.
- 23) **SEVERABILITY.** The invalidity or unenforceability of any particular provision or part thereof of this Contract shall not affect the remainder of said provision or any other provisions, and this Contract shall be construed in all respects as if such invalid or unenforceable provision or part thereof had been omitted.
- 24) **FORCE MAJEURE.** The Department may, at its discretion, excuse the performance of an obligation by a party under this Contract in the event that performance of that obligation by that party is prevented by an act of God, act of war, riot, fire, explosion, flood or other catastrophe, sabotage, severe shortage of fuel, power or raw materials, change in law, court order, national defense requirement, or strike or labor dispute, provided that any such event and the delay caused thereby is beyond the control of, and could not reasonably be avoided by, that party. The Department may, at its discretion, extend the time period for performance of the obligation excused under this section by the period of the excused delay together with a reasonable period to reinstate compliance with the terms of this Contract.
- 25) **DEBARMENT, SUSPENSION, INELIGIBILITY, OR EXCLUSION.** By signing the Contract, the Contractor certifies that it has not been debarred, suspended, declared ineligible or voluntarily excluded from contracts by the Federal Government or any state agency within the last 3 years.

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- 26) **SET-OFF RIGHTS.** The State shall have all of its common law, equitable and statutory rights of set-off. These rights shall include, but not be limited to, the State's option to withhold for the purposes of set-off any monies due to the Contractor under this Contract up to any amounts due and owing to the State with regard to this Contract, any other Contract, any other Contract with any State department or agency, including any Contract for a term commencing prior to the term of this Contract, plus any amounts due and owing to the State for any other reason including, without limitation, tax delinquencies, fee delinquencies or monetary penalties relative thereto. The State shall exercise its set-off rights in accordance with normal State practices including, in cases of set-off pursuant to an audit, the finalization of such audit by the State agency, its representatives, or the State Controller.

SPECIAL PROVISIONS
ADDITIONS AND REVISIONS TO STANDARD SPECIFICATIONS

SPECIAL PROVISION SECTION 101
CONTRACT INTERPRETATION

101.2 Definitions Add the following:

“MaineDOT The Department of Transportation of the State of Maine, as established by 23 MRSA §4205 et seq. for the administration of Highway, Bridge, and other public Works; acting through the Commissioner and his/her duly authorized representatives.”

101.2 Definitions Add the following:

“Contract Agreement form The Contract Agreement, Offer and Award, the Maine Department of Transportation Contract Agreement Transportation Related Maintenance Work, the Maine Department of Transportation Contract Agreement to Purchase Supplies, Materials and/or Equipment for a Specific Project, Contract Agreement to Purchase Materials and/or Equipment for a Project and Related Work, the Maine Department of Transportation Private Equipment Rental Agreement – with an Operator, the Maine Department of Transportation Private Equipment Rental Agreement – without an Operator, or other contract agreement contained in the bid documents.”

101.2 Definitions Contract Completion Date Delete the entire section and replace with the following:

“The required completion date of all Work pursuant to the Contract, except warranty work. The Contract Completion Date is usually on the Contract form.”

101.2 Definitions Contract Execution Delete the entire section and replace with the following:

“Execution of the Contract by the Commissioner or their authorized agent by signing the Contract form which action, upon written notification to the Contractor, forms a Contract as provided in Section 103.8 - Execution of Contract by Department.”

101.3.6 Priority of Conflicting Contract Documents Delete the entire section and replace with the following:

“If the Contractor discovers any ambiguity, error, omission, conflict, or discrepancy (“ambiguity, etc.”) related to the Contract Documents that may significantly affect the cost, quality, Conformity, or timeliness of the Work, The Contractor must comply with Section 104.3.3 - Duty to Notify Department If

Ambiguities Discovered. In the case of ambiguity, etc., the following components of the Contract Documents shall control in the following descending order of priority:

Contract
Bid Amendments (most recent to least recent)
Appendix A - Description of Materials, Supplies, Equipment and Bid Price
Appendix B - Special Provisions for the Purchase of Supplies, Materials or Equipment
Special Provision 101 – Contract Interpretation
Special Provision 801 – Temporary Force Main
Special Provision 825 – Temporary Water Service
Special Provision 910 – Special Work, Structural Steel
Contractor supplied temporary bridge layout plan (1 sheet) and typical section plan (1 sheet).
Standard Specifications, March 2020 Edition, as updated through advertisement
Standard Details, March 2020 Edition as updated through advertisement

SPECIAL PROVISION SECTION 107
TIME

Delete the entire section 107.4 (or the entire section 107) and replace with the following:

“107.4.1 General Duty of Contractor The Contractor is solely responsible for the planning and execution of Work in order to complete the Work within the Contract Time.”

SPECIAL PROVISION
SECTION 801
Temporary Sewer Force Main

Description

This work consists of furnishing temporary pipe for sewer service relocation to a temporary detour bridge.

Materials

A. Polyethylene Pipe:

- a. The polyethylene compound shall be suitably protected against degradation by ultraviolet light by means of carbon black, well dispersed in a concentration of not less than 2%
- b. The polyethylene resin compound shall have a resistance to environmental stress cracking as determined by procedure detailed in ASTM D 1693 with sample preparation by procedure C of ASTM D 1928 of not less than 40 hours.
- c. Pipe shall be homogeneous throughout and free of visible cracks, holes, foreign material, blisters, or other deleterious faults.
- d. Polyethylene fittings shall have the same pressure rating as the pipe itself.
- e. Adaptors: When applicable, provide adaptors for connecting polyethylene pipe to pipes constructed from other materials. All flanges shall have metal backing rings.
- f. Pipe pressure rating shall be 150 psi (SDR-11) minimum.
- g. Pipe interior diameter shall be 6-inches.

B. Polyvinyl Chloride (PVS) Pipe:

- a. PVC formulation shall contain impact modifiers and ultraviolet inhibitors for use in above-ground temporary applications.
- b. Pipe pressure rating shall be 150 psi (SDR-18) minimum.
- c. Pipe interior diameter shall be 6-inches.

Fittings

A. High Density Polyethylene (HDPE)

- a. Fittings: Same material as pipe, molded or formed to suit pipe size and end design, in required "T", bends, elbows, cleanouts, reducers, traps, and other configurations required. Polyethylene fittings to be minimum SDR 11 if fabricated rather than molded.

B. All PE pipe connections to fittings or valves of differing materials shall be by an Engineer approved PE Mechanical Joint Adapter.

Fabrication

A. Polyethylene Pipe:

- a. Thermal Butt-Fusion:
 - i. Join the pipe to itself, or to the polyethylene fittings or to the flange

- connections by means of thermal butt-fusion.
- ii. Have all fusion performed by personnel trained by the pipe supplier or other qualified persons, using tools approved by the pipe supplier.
 - iii. The polyethylene fittings and flanged connections to be joined by thermal butt-fusion shall be from the same type, grade and class of polyethylene compound as the polyethylene pipe unless otherwise approved.
 - iv. Joint strength must be equal to that of the adjacent pipe.
- b. Mechanical Connections: The mechanical connections of the polyethylene pipe to auxiliary equipment shall be in accordance with the pipe suppliers written instructions
- B. Polyvinyl Chloride (PVC) Pipe:
- a. Fittings shall be supplied with Teflon coated “O”-ring to minimize assembly and disassembly effort required to install, remove and reinstall the system.
 - b. Mechanical Connections: The mechanical connections of the PVC pipe to auxiliary equipment shall be in accordance with the pipe suppliers written instructions.

Basis of Payment

Pipe will be paid for at the Contract unit price. Payment includes fabrication and delivery of pipe to the Contractor’s lay-down yard at 275 River Road, Woolwich, Maine.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
801.07 Temporary Sewer Bypass	Linear Foot
801.072 Temporary Sewer Bypass Field Joint	Each

SPECIAL PROVISION
SECTION 825
Temporary Water Service

Description

This work consists of furnishing temporary pipe for water service relocation to a temporary detour bridge.

General

- A. All materials, components, products, systems and coating that come into contact with drinking water must be certified to meet NSF/ANSFI Standard 61.
- B. The Contractor shall supply the required pipe, fittings, and appurtenances for the temporary water system. The Contractor shall be responsible for coordination and delivery of materials to 275 River Road, Woolwich, Maine. Once delivered it is the responsibility of the Contractor to adequately store the materials

Pipe

- A. High Density Polyethylene (HDPE) Pipe, Conforming to ASTM 3035 and 3350.
 - a. Class: PE 3408. PE 345434C
 - b. SDR 11.
 - c. Joints: Butt fusion weld or Electrofusion coupling
 - d. Nominal Size: As indicated in Appendix A material list.

Fittings

- A. High Density Polyethylene (HDPE)
 - a. Fittings: Same material as pipe, molded or formed to suit pipe size and end design, in required "T", bends, elbows, cleanouts, reducers, traps, and other configurations required. Polyethylene fittings to be minimum SDR 11 if fabricated rather than molded.
- B. All PE pipe connections to fittings or valves of differing materials shall be by an Engineer approved PE Mechanical Joint Adapter.

Basis of Payment

Pipe will be paid for at the Contract unit price. Payment includes fabrication and delivery of pipe to the Contractor's lay-down yard at 275 River Road, Woolwich, Maine.

Payment will be made under:

Pay Item

Pay Unit

825.60	12" – HDPE Water Main	Linear Foot
822.305	Water Main Insulation and Jacketing	Linear Foot

SPECIAL PROVISION

SECTION 910

Special Work
(Structural Steel)

Description

This work consists of furnishing structural steel for a temporary detour bridge.

Materials

All structural steel materials shall meet the requirements of ASTM A709, Grade 50. The Contractor shall provide the Department with the manufacturer's mill certificates for structural steel materials and safe access to verify the materials.

Basis of Payment

Structural Steel will be paid for at the Contract lump sum price. Payment includes mill fabrication and delivery of the structural steel to the Contractor's lay-down yard at 275 River Road, Woolwich, Maine.

Payment will be made under:

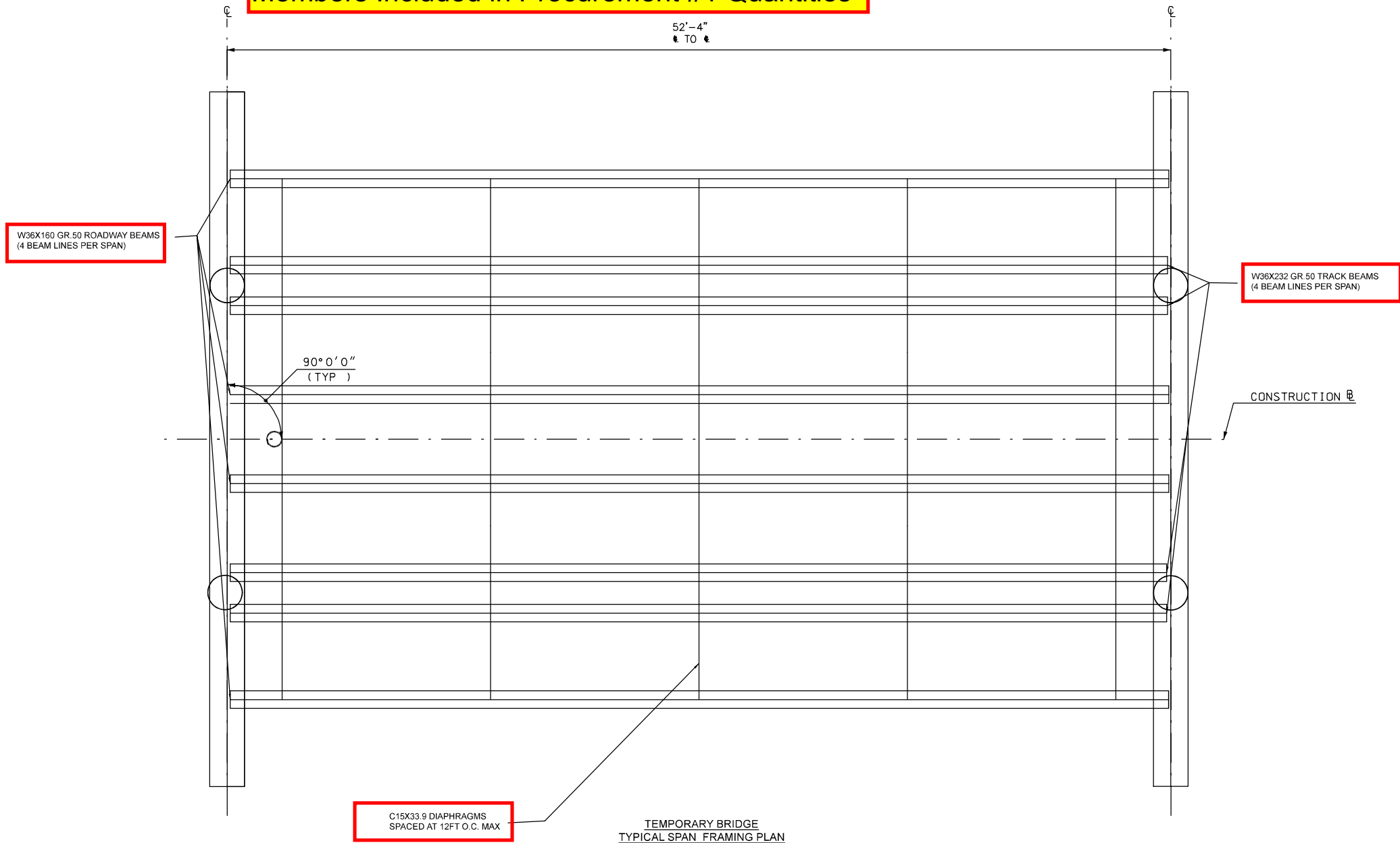
Pay Item

Pay Unit

910.301 Special Work, Structural Steel

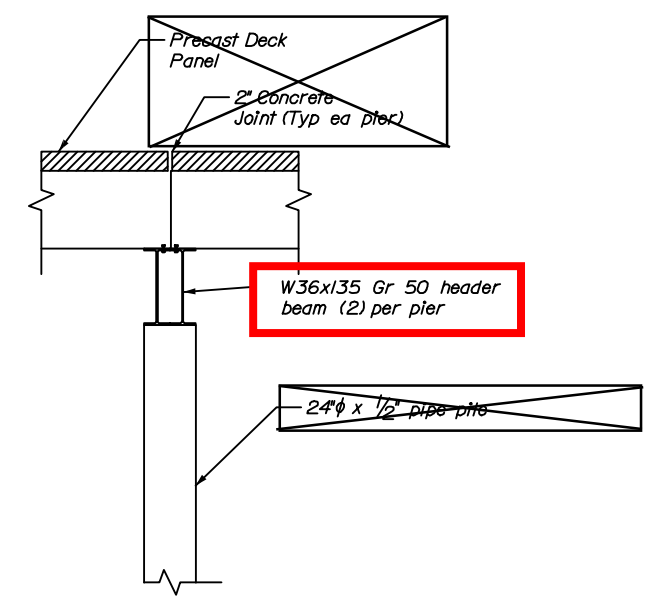
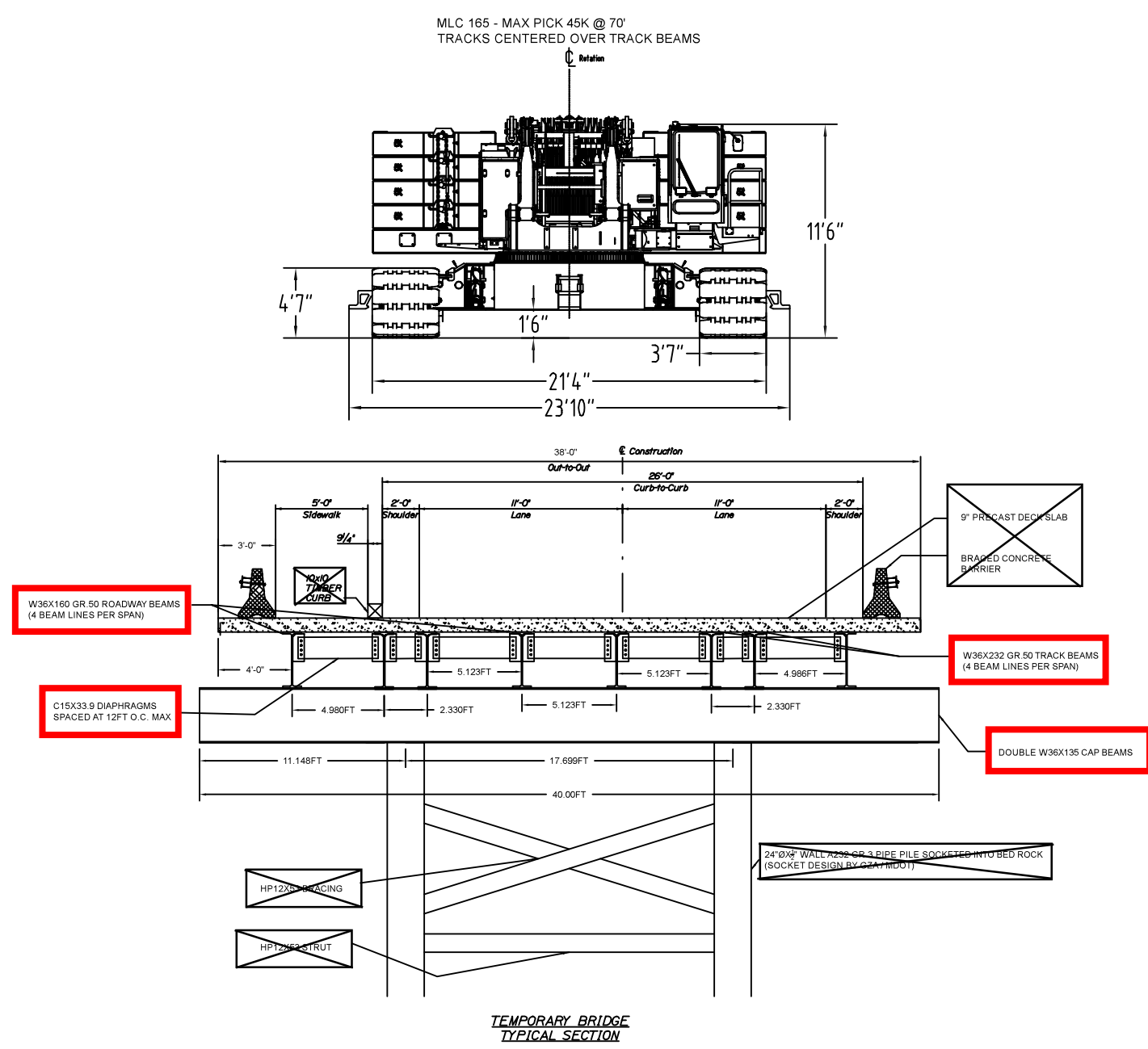
Lump Sum

Members Included in Procurement #1 Quantities



Structure Members Included in Procurement #1 Quantities

Structure Members Not included in Procurement #1 Quantities



Typical Pier Section

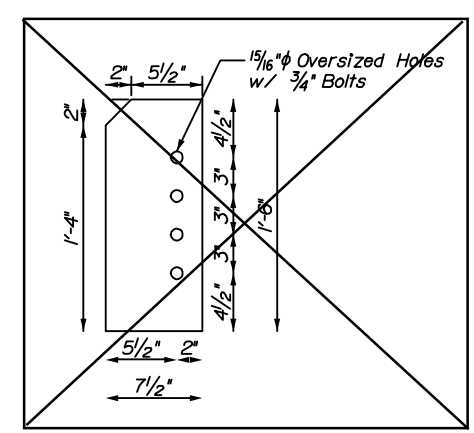
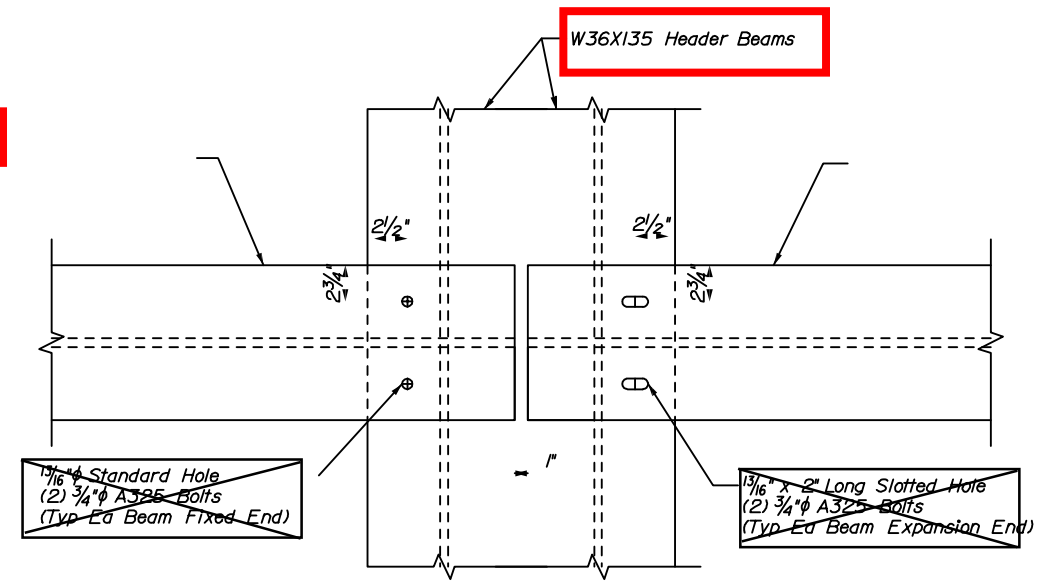
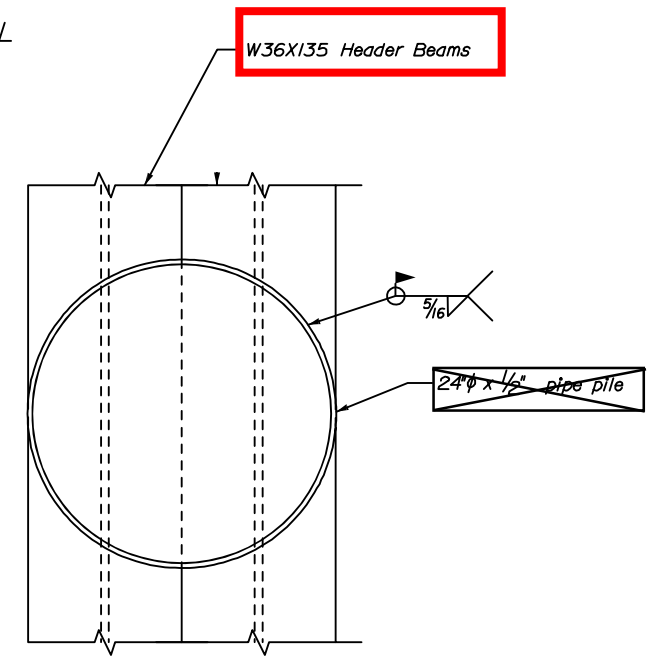


PLATE DETAIL



TYPICAL BEARING CONNECTION DETAIL
Note Connections at Abutments shall be expansion Each span shall have one fixed end and one expansion end



TYPICAL PIER PILE CONNECTION