

ADDENDUM NO. 2

September 13, 2023

**CORPORATE DRIVE RECONSTRUCTION
PORTSMOUTH, NEW HAMPSHIRE**

The following changes and information are hereby incorporated into the Contract Documents (Project Manual and Drawings).

GENERAL

1. Pre-Bid Meeting Notes and Sign in Sheet (Attachment “A”)
2. Questions received after Pre-Bid Meeting (Attachment “B”)

PROJECT MANUAL

3. Bid Schedule (A-3.8)

Add Item No. 604.41 Reconstructing Drain Structures – Slab Tops, Cones and Barrel Sections as shown below (also see Attachment C):

604.41	50	VF*	Reconstructing Drain Structures			
			Dollars and			
			Cents per	VF*	/	VF*

4. Bid Schedule (A-3.11)

Modify Item No. 604.4 Reconstructing/Adjusting Catch Basins to be an indeterminate quantity as shown below (also see Attachment C):

604.4	60	VF*	Reconstructing/Adjusting Catch Basins			
			Dollars and			
			Cents per	VF*	/	VF*

5. Section 403 Hot Bituminous Pavement

Delete Paragraph 2.1 from Section 403 and **Replace** with Paragraph 2.1 below which adds the City of Portsmouth Low RAP Mix Design requirements.

2.1 Materials shall conform to NHDOT Section 401 except the following:

2.1.1. *The maximum amount of Total Reused Binder (TRB) in the pavement mix design shall be .5% and the mix shall meet all volumetric mix design criteria.*

2.1.2. Asphalt Cement shall not contain any form of used, recycled or refined oil. Suppliers of PG Binder shall certify that the PG Binder does not contain any used, recycled or refined oil.

2.2.3. All ½” (12mm), ¾” inch (19mm) and 1 inch (25mm) pavement mixes shall be designed using the 50 gyration N design, unless specified otherwise.

2.2.4. Liquid asphalt cement binder shall have a Performance Grade (PG) of PG 64-28 for all standard bituminous and PG 64-E for all high strength bituminous pavements.

2.2.5. All high strength asphalt, when specified, shall be 50 gyration unless otherwise directed.

6. Section 403 Hot Bituminous Pavement

Add Paragraph 2.4 to Section 403 which adds the City of Portsmouth Low RAP Mix Design requirements as follows.

2.4 Pavement mix designs shall meet NHDOT Section 401.2.5.1 except the following:

2.4.1 Minimum asphalt binder content shall be as follows:

Minimum Asphalt Binder Content		
Mix Type	50 Gyration	75 Gyration*
3/8-in (9.5 mm)	6.3	5.9
1/2-inch (12.5)	5.9	*
3/4-inch (19)	5.3	*

The required minimum asphalt content is based on the use of aggregate with a specific gravity of 2.65 to 2.70. The minimum asphalt content requirement may be adjusted when aggregate with a higher specific gravity is used, or the minimum may be adjusted at the Engineer’s discretion if it is believed to be in the best interest of the Owner. All mix designs shall be submitted to the Engineer for verification and approval.

* 75 Gyration mix is not allowed for these sizes without express written permission of the engineer.

2.4.2 Method Requirements NHDOT Section 401.2.6 shall apply including the following:

- a. Coarse Aggregate: Stockpiled coarse aggregate shall meet the requirements of 2.6.1, Table 2.
- b. Tolerances: All mixtures shall conform within the range of tolerances provided in NHDOT Section 401.2.6.2
- c. When Non-Compliant test result, it shall be the Contractor’s responsibility to correct non-compliant pavement. The Contractor may be required to remove non-compliant material that is poorly graded or material exhibiting cracks, open joints or other imperfections **(no payment will be made for this material or its removal)**.

7. Section 604 Catch Basins, Drop Inlets, and Manholes

Delete paragraph 3.3 and **Replace** with the following:

3.3 When reconstruction or adjustment of existing structures is specified, the frames and grates or covers shall be removed, and the walls reconstructed as required. Reconstruction of the walls shall mean replacing the top section, if necessary, adding riser sections, replacing

riser sections, removing riser sections, or adding/removing rows of barrel block as required to meet the proposed grades. *When reconstructing walls, the surface of the existing structure remaining shall be prepared to receive a new pre-cast slab top, cone or barrel section including leveling the surface, filling void space within masonry blocks with concrete and applying two rows of bitumastic sealant.* The frames and grates or covers shall be cleaned and reset at the required elevation. Non-serviceable and non-conforming castings shall be replaced as directed.

8. Section 604 Catch Basins, Drop Inlets, and Manholes

Add Paragraph 5.8 to Basis of Payment as follows:

5.8 Accepted quantities of reconstructed drainage structures will be paid at the contract unit price per vertical foot complete in place including common structure excavation, removal and disposal of existing structure, removal and disposal of existing casting (or returning casting to owner if requested), preparing the surface of existing structure remaining (including leveling the surface, filling void space within masonry blocks with concrete and applying two rows of bitumastic sealant), providing and setting new pre-cast slab covers, cone sections and/or barrel sections and all associated work for setting castings to grade as described in Paragraph 5.6.

9. Section 604 Catch Basins, Drop Inlets, and Manholes

Add Item No. 604.41 Reconstructing Drain Structures – Slab Tops, Cones and Barrel Sections:

Item 604.41 Reconstructing Drain Structures – Slab Tops, Cones and Barrel Sections VF

10. Section 605 Underdrains

Modify Section 605.2.10 to read as follows:

2.10 Support membrane shall be *non-woven* monofilament geotextile and conform to Item 593.131-Geotextile, Subsurface Drainage, Class 3, *Non-woven*, Monofilament.

11. Section 1008.1 – Utility Adjustments

Delete paragraph 4.3.2 and **Replace** with the following:

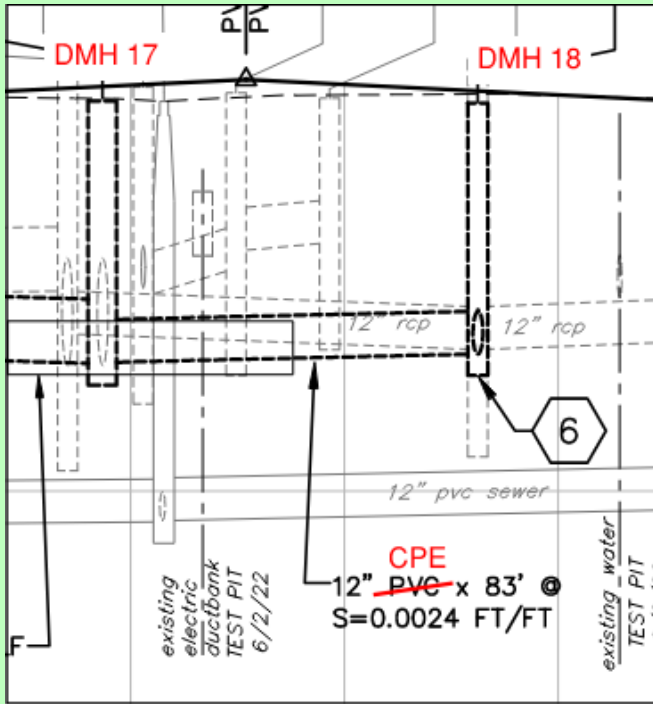
4.3.1.1. Repair of utilities that are marked by Dig-Safe will be measured for payment only when the utility is found to be more than 1.5’ outside the Tolerance Zone as marked in the field. Tolerance Zone will be as defined in the dig safe regulations (Puc 800 in the NH Code of Administrative Rules).

4.3.1.2 Repair of utilities indicated on the Drawings will only be measured for payment when the utility is found to be more than 6’ from the location shown on the Drawing.

DRAWINGS

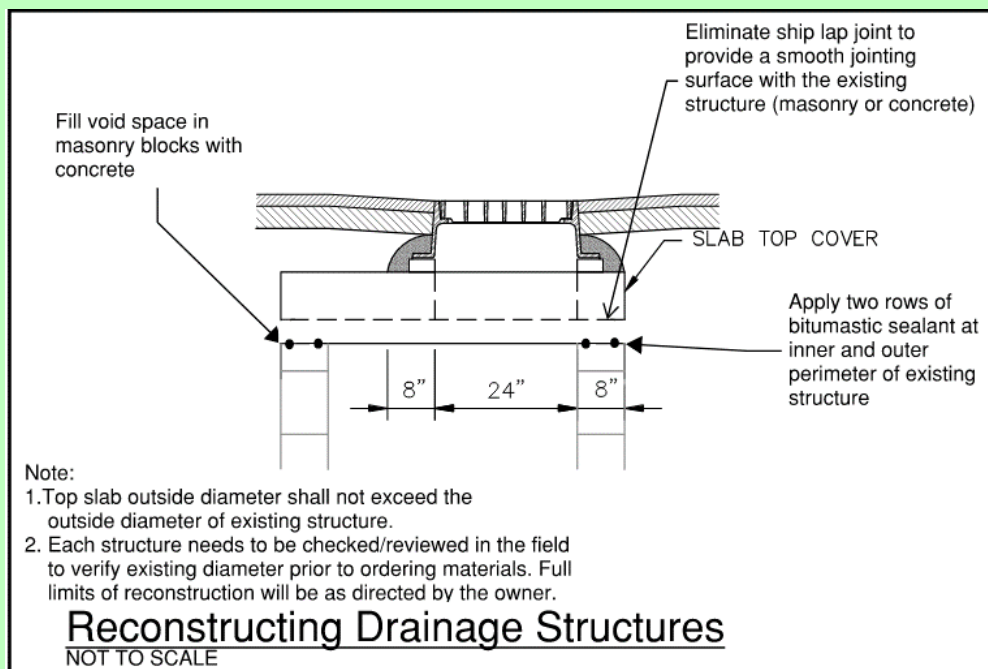
12. Drawing C5 Profile -12" Drain Pipe Between DMH 17 and DMH 18 (STA 57+93 to 58+81)

Delete the word "PVC" after 12" and **Replace** with "CPE" as shown below:



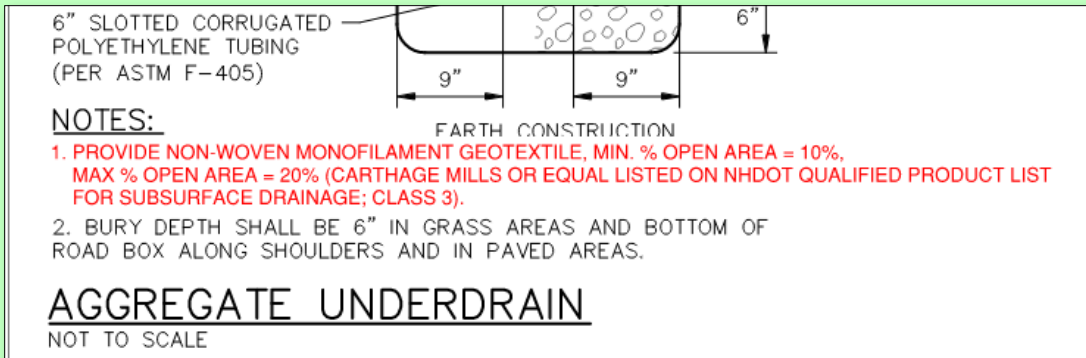
13. Drawing D4 Drainage Details – Reconstructing Drainage Structures

Add the Reconstructing Drainage Details as shown below:



14. Drawing D5 Drainage Details -Aggregate Underdrain

Modify Note No. 1 as shown below:



Attachments:

- A – Pre-Bid Meeting Notes and Sign-in Sheet (10 Pages)
- B – Questions received after Pre-Bid Meeting (3 Pages)
- C – Bid Schedule (15 Pages)

UNDERWOOD ENGINEERS, INC.



Benjamin T. Dreyer, P.E.
-Senior Project Manager

**PRE-BID MEETING AGENDA
CORPORATE DRIVE RECONSTRUCTION
PORTSMOUTH, NEW HAMPSHIRE**

**680 Peverly Hill Road
PORTSMOUTH NH**

September 7th, 2022 (1:00 P.M.)

Attendees

Dave Desfosses
Erich Fiedler P.E.
Jared Sheehan
Ben Dreyer P.E.
Kate Varney

Representing

City of Portsmouth
City of Portsmouth
Pease Development Authority
Underwood Engineers
Underwood Engineers

1. Introductions

See Sign-in Sheet

2. Non-Mandatory Pre-Bid Meeting

Attendance at this meeting is non-mandatory. Attendance is not required to submit a bid.

3. Project Overview

The project consists of the following work:

• **Base Bid: Road Reconstruction and Drainage Improvements**

○ Roadway Reconstruction

- Full depth box out reconstruction (6,500 LF)
- 15” Crushed stone (fine) subbase
- 3.5” Binder course pavement
- 1.5” Wearing course pavement
- Vertical granite curb (re-set) (12,300 LF)
- Side street and drive apron tie-ins

○ Drainage Improvements

- Installation of new 12” and 15” CPE drainage (2,400 LF)
- Installation of new 18” PVC drainage (1,700 LF)
- Installation of drain manholes and catch basins.
- Installation of 6” perf PE underdrain (3,300 LF)
- Replace existing catch basin frame and grate assemblies so all “Type B” grates are present in the project limits (pavement areas). Some cone sections and/or slab tops will be replaced.
- Install CB hoods catch basins with only one outlet pipe.

- Sidewalk
 - Concrete sidewalk ramps at cross walk locations
 - Concrete sidewalk repairs (select locations)
 - Grading between the curb and edge of sidewalk

- Stormwater Treatment
 - High rate biofiltration (5 units)
 - Flow through manhole filter (1 unit)
 - Pre-treatment chamber curb inlets (12 units)
 - Vegetated pretreatment swales (1,900 LF)

- Property Restoration
 - Restoration of construction impacts as work progresses.
 - Trench pavement repairs as work progresses.
 - Landscaping
 - Restoration will be paid where unit items are provided. If no item is provided, work is considered subsidiary.

- Add Alt. #1: Sidewalk Extension (STA 70+00 to STA 72+50)
- Add Alt. #2: Sleeves for Non-Potable Water Pipe (2)

See Section 110- Prosecution of Work

4. **Funding**

This project is funded by the City of Portsmouth.

5. **Bids**

The following shall be submitted to be considered a responsive bid (blue pages):

- Bid to be filled out in its entirety, pages A-3.1 to A-3.19
- Bid Bond for 5% of the bid price, page A-4.1 to A-4.2 (See Addendum #1)

Submit hard copies of bids to City of Portsmouth at **1 Junkins Avenue, Portsmouth, NH**, by **2:00 PM** (Local Time) on **September 21, 2022**.

- At that time, Bids will be publicly opened and read aloud.
- Acknowledgement of any addendum
- Bidders must be on the NHDOT pre-qualified list (also see Bidder Qualifications page A-2.4).
- The Basis of Award will be the lowest price from a qualified bidder based on the Engineer's estimated quantities for the Base Bid
- 100% percent performance and payment bonds will be required at contract signing

6. NHDOT Unit Items

Work for this project is based on NHDOT unit items and shall conform to NHDOT Standard Specifications, as amended, or modified.

Attention Bid Items

- General – See amendments
- Item 403.99 – Temp. Pavement is intended for **trench** repairs
- Item 603.000x – Video Inspection limits are provided on sheet C1
- Item 604.51 –Adjusting/Reconstructing structures is provided for any second adjustment to meet finished grades. Existing structures will be paid twice.
- Item 604.72 - Grates and Frames Type B – Intent is for all grates and paved areas to be type B.
- Item 609 – Granite Curb – Intent is to reuse existing granite curb. Locations for new granite will be coordinated with the City.
- Item 632 – Paint Marking – Quantities in the Bid Schedule are for permanent markings only. **(Temp. Pavement will need double yellow and stop lines)**
- Item 646 -Turf Establishment – See amendment for acceptable seed mixes.
- Item 1008.1x – Utility Relocation/Crossings/Repairs
- Item 1010 – Stormwater Treatment Items see special provisions.

Quantity tables are provided on the plans.

7. Available Information

The following information has been included in the Appendix of the project manual:

- APPENDIX A -Geotechnical Report
- APPENDIX B – Pease Development Authority Excavation Permit
- APPENDIX C -Catch Basin and Drain Manhole Data Forms (Select Structures)
- APPENDIX D – CCTV logs for Existing Drainage System

8. Schedule

Completion time for the project will be calculated as calendar days from the date specified in the “Notice to Proceed” as follows:

- Substantial Completion - **270** Calendar Days
- Final Completion – **300** Calendar Days

The intent is for Notice to Proceed to begin in the Spring 2024. ~~The City may consider an earlier start date in 2023.~~

9. Operational Plans for Approval

The following operational plans must be submitted and approved prior to proceeding with the work:

- Project Schedule (to be updated for each regular progress meeting)
- Stormwater Pollution Prevention Plan (SWPPP)
- Traffic Control Plan
- City of Portsmouth Flagging Permit – fees waived, application still required.
- Pease Development Authority Excavation Permit - fees waived, application still required.
- Test Pit Plan and Results

10. Work Sequences

Prior to the start of any work, the Contractor shall submit for approval a proposed work schedule. Schedule updates or alterations should be presented at regular progress meetings. The Contractor will need to consider the following items pertaining to general sequencing of the work:

- Erosion Control and Dewatering
- Drainage System
- Pavement Repairs
- Road Reconstruction
- Curbs and Sidewalks
- Stormwater Treatment

Work sequences above will be coordinated with traffic work zone requirements in the following section.

11. Traffic Control

A Traffic Control Plan (TCP) shall be submitted to the Engineer for review and will require the approval by the City of Portsmouth and Pease Development Authority. Trenches will be backfilled and roads shall be re-opened to provide safe two-way vehicular and pedestrian traffic at the end of each working day (plates may be used only with prior approval from the Owner).

The TCP shall also include the anticipated number of flaggers to be used for a given work area. The Engineer reserves the right to request more or fewer flaggers as work progresses and conditions change. Although police are not required by the City, an allowance for police details is provided. The intent is to provide a police detail for unique or significant changes in daily traffic patterns. In most cases, flaggers will be appropriate. Variations to the TCP will be dependent on the Contractor's schedule and operations.

Work Zones

Three discrete work zones are identified to facilitate work sequences that maintain reasonable traffic flow and minimize impacts to the traveling public.

- Work Zone 1 – Goosebay Drive to Rye Street
- Work Zone 2 – Rye Street to Oak Avenue
- Work Zone 3 – Oak Avenue to Grafton Road
- Intent is to limit the extent of road reconstruction work so that only one work zone is unpaved at one time. The City may consider road reconstruction work in one zone while drainage work occurs in another.

Work zone limits are shown on Drawing G3. Proposed work sequences and detours should be properly referenced to each respective work zone.

Traffic Flow and Detours

The Contractor shall maintain access to properties and driveways throughout construction, to the greatest extent that is possible. Short duration road closures to through traffic and detours (excepting local traffic) may be approved to facilitate completion of the work.

- Any detours shall only be during working hours and normal traffic shall be restored at the end of each day.
- All temporary detours require approval as part of the Traffic Control Plan submittal.
- The Contractor will not be permitted to use private properties and parking lots as detour routes.
- Any proposed detours and daily operations must facilitate access for local traffic including septage trucks hauling to the Pease WWTF (Work Zone 1 & 2)
- Portable changeable message boards will be used to alert the public to planned detours and changes in traffic patterns.

Equipment - Provide necessary barricades, signs and traffic control devices in accordance with approved TCP and NHDOT section 619. Construction warning signs must conform to MUTCD standards, as applicable. Contractor shall provide all portable message signs required for traffic control.

Temporary Pavement

Pavement removal at pipe trench limits shall be proceeded by sawcutting (Item 628.3). As pipe work progresses, the trench surface may be maintained as a gravel surface suitable for traffic (free of rutting, mud, holes, irregular conditions) up to a maximum of 400 LF. Temporary trench pavement repairs shall be completed so that no more than 400 LF of gravel trench surface is exposed at any time.

Adjusting Structures to Grade

Unit pay items for catch basins and manholes include adjustment of frame assemblies to binder grade. Any second adjustment for new structures to meet finish grades will be paid separately. Adjustment of existing structures will be paid twice (set to binder grade; set to finish grade). When an existing structure is to receive a new frame assembly and/or top slab, only one adjustment (to finish grade) will be paid.

For existing sewer manholes and/or catch basins to be lowered, the Contractor together with the Engineer will review each manhole for available adjustment (i.e. brick courses present). This review shall occur in advance of road re-construction work. If necessary, a new cone section or slab top will be ordered.

Dust Control

The work zone is in close proximity to corporate business entities and waterbodies sensitive to sedimentation. The Contractor is required to control dust on a routine basis. Water and/or Calcium Chloride are required on unpaved surfaces to control dust.

12. Construction Layout and Record Information

The Contractor will be responsible for all construction layouts. Upon request, the Engineer will provide electronic drawing files for use by the Contractor, for reference throughout the project. The Engineer and/or Owner's Representative, together with the Contractor's Superintendent will review utility corridors, giving consideration to dig-safe markings and Contractor's work plan. The Contractor will advise the Engineer, in advance, of potential conflicts concerning execution of his work. It will be the responsibility of the Contractor to protect and maintain TBM's and control points provided by the Engineer. The Engineer will provide an electronic copy of plans and coordinates to the Contractor upon request to facilitate the Contractor's layout, providing the Contractor executes a release concerning the information transmitted.

13. Utilities and Coordination with Other Contractors

It will be the Contractor's responsibility to coordinate with the utility companies for identification and re-location, if necessary, of any utilities that are interfering or conflicting with the work shown on the drawings. Loss of production or crew downtime relating to utility work by others will not be considered for additional payment.

Buried Utilities and Service Pipes

All service pipes for sewer, water, gas, and any buried electric and communication utilities that may exist may not be shown on the Drawings. At a minimum, one sewer, water, and gas service can be expected for each building unit, where utility mains exist. Where buildings have multiple units, multiple services can be expected. Additional or unknown utility crossings encountered will be measured for payment as described in Item 1008.13. Repairs to unknown, unmarked or mismarked utilities will be measured for payment as described in Item 1008.14. Repairs for damage to utilities either shown on the plans or through markings on the ground will not be measured for payment. Direct conflicts with utilities resulting in the need for relocation of utilities will be measured for payment, using contract unit items, as deemed appropriate by the Engineer. Additional compensation beyond unit items for loss of production, delays or downtime will not be considered.

Dig Safe

The Contractor is expected to coordinate utility markings through Dig Safe, and Portsmouth DPW and Pease Development Authority, amongst others not named, before proceeding with this work. Utility.

14. MEETINGS

Project Meetings

It is anticipated that regular scheduled meetings will be held with Owner's Representatives, Contractor, sub-contractors and regulatory agents at least once monthly, unless an increased frequency in meetings is considered necessary by the Contractor, Owner or Engineer.

Coordination Meetings

Informal weekly meetings are anticipated between the Contractor's Superintendent, Owner, and Resident Project Representative to review progress/schedule, sequence and other day to day issues.

15. Temporary Erosion Control

The drainage system in the project limits has multiple outlets to Hodgson Brook and Grafton Ditch which are considered impaired water bodies. The Contractor shall exercise caution to mitigate the intrusion of any spillage, sediment, turbidity, or pollution into the waterways or adjacent properties around the project area. Sediment and erosion controls shall be operational prior to commencing trench de-watering operations.

A Storm Water Pollution Prevention Plan (SWPPP) will be required and must be kept on site at all times. The SWPPP may be amended as necessary (or as requested by the Engineer) to provide continued erosion and sediment control throughout the project. Appropriate measures shall be implemented to prevent sedimentation migration resulting from the Contractor's construction operations.

16. Construction Dewatering

Trench dewatering is anticipated to complete the pipe work. The Contractor shall comply with the Environmental Protection Agency's (EPA) National Pollutant Discharge Elimination System (NPDES) General Permit for Construction Dewatering before proceeding with the work.

This NPDES general permit covers construction dewatering discharges defined as pumped or drained discharges of groundwater and/or storm water from excavations or other points of accumulation associated with a construction activity. Qualified dischargers must submit a Construction Dewatering NOI to EPA-NE to be covered and will receive a written notification from EPA-NE of permit coverage. The EPA-NE contact for NOI forms is Shelley Puleo at (617) 918-1545. The DES contact for this permit is Hayley Franz at (603) 271-0671.

Appropriate sediment and erosion controls shall be operational prior to commencing trench dewatering operations. Construction dewatering is incidental.

17. Sidewalks

The project includes the construction of new sidewalks at certain locations. However, not all sidewalks will be replaced. The Contractor shall protect sidewalks designated to remain. Sidewalks specified to remain that are damaged as a result of the Contractor's operation or equipment, will be repaired at the Contractor's own cost. Sidewalk grading shall be in accordance with ADA requirements. Contractor shall review sidewalk grading with the Resident Project Representative before concrete is placed.

18. Granite Curbing

The existing granite curbing shall be reincorporated into the project to the maximum extent possible. Any existing curbing removed and not re-set shall remain property of the Owner and shall be delivered to a stockpile location as directed by the Owner, unless Owner declines the curbing, in which case the curbing will become the property of the Contractor and shall be removed. The bid schedule includes items for re-set and new granite curb. The intent is to provide for additional curb that may be needed if existing re-set curb quantities are insufficient. Limits of new vs. re-set curb shall be reviewed with the Owner prior to the work.

19. Geotechnical Information

To assist the Contractor in preparing a bid, boring logs and a geotechnical report are included in Appendix A of the Project Manual. Note that there may be seasonal fluctuations in groundwater elevation and/or changes influenced by other factors including weather.

20. Quality Assurance and Materials Testing Program

The Engineer and/or Owner may request tests/samples based on conditions observed in the field. Geotechnical testing may include the following:

- Compaction
 - Backfill materials
 - Road subbase
 - Pavement
- Aggregate gradation and sieve analysis
- Pavement mix properties
- Concrete mix properties
- Other/additional testing requested by the Owner or directed by the Engineer

In the event that material testing results reveal non-conforming material has been installed, the Contractor will be required to submit a plan outlining the approach to correcting the non-conforming work. After corrective actions are completed, the material will be retested for acceptance. The Contractor shall bear the cost of any subsequent sampling, testing and evaluation necessary to demonstrate conformance with the Project Specifications. Such costs may be deducted from payment owed to the Contractor under the respective Contract Unit Item for the work being installed.

21. Work Hours

It is anticipated that the Work will be completed Monday through Friday during daylight hours (7 AM to 5 PM) unless specifically noted otherwise. Requests to perform nighttime or weekend operations must be approved by the City at least 2 weeks prior to the anticipated construction operations. Additional costs associated with nighttime or weekend operations will be at the Contractor's expense, unless deemed necessary for consideration of abutters or changes in project sequencing requested by the City.

22. Easements And Private Property

The Contractor shall not enter upon nor occupy with men, equipment or materials any property outside of the public ROW, unless written consent of the owner is obtained prior to entry. At the completion of work, the property shall be restored to pre-existing condition or otherwise improved as shown on the drawings.

Pease Development Authority is the owner of the Corporate Drive ROW

23. Staging Area

The Contractor is required to locate and secure all staging and material storage areas. All staging areas to be secured by the Contractor must be approved in advance by the City and PDA. Contractor shall provide a Hold Harmless Release to the City prior to start of use of the staging area. At the completion of work, the Contractor shall receive a release from the property owner's of the staging area(s) and a copy of each release shall be provided to the City prior to final acceptance of the project.

With advance approval from the City and PDA, the Contractor may use the side of the roadway for staging of pipe and structures (CB's and manholes) providing the following conditions are met:

- A. That structures are placed no sooner than one (1) week preceding installation.
- B. Sidewalks and driveways are unimpeded and a minimum of 20 feet of roadway is maintained as a smooth traveling surface for vehicular traffic.
- C. That the Contractor will relocate structures upon notification by the City, if deemed necessary to maintain public relations and/or public safety

The Contractor may use the area known as “Jones School” for staging. Soil stockpiles previously treated for invasive species (now in-active) are present from previous work. After completion of Corporate Drive Reconstruction work the Contractor shall spread the soil and establish turf as part of restoration and project close out (subsidiary to Item 692 Mobilization). Pease Development Authority will require a simple right of entry form to be executed by the Contractor for use of the site.

Underwood will confirm with PDA if soil excavated needs to stay on site including:

- Soil in roadbox
- Soil out of road
- Soil around pipes

Underwood will confirm with PDA if dewatering is needed:

- Outside the pipes
- Inside the pipes
- If needed, requirements will be added by addendum.

24. Pavement Markings And Traffic Signs

Temporary pavement markings, to match the existing pavement markings, are subsidiary. Permanent pavement markings are to be reviewed with the Owner’s Representative prior to placement. Markings not approved shall be removed at the Contractor’s own expense, if requested by the Owner.

Street signs removed or impacted during construction shall be re-set by the Contractor (incidental).

25. Abandonment Of Existing Pipe

All pipes to be abandoned (water, sewer, drain, etc. 12-inch diameter or smaller) shall be cut, capped, and abandoned in place, unless shown otherwise on the Drawings. Existing pipe 12- inches or larger and structures located outside normal excavation limits, to be abandoned, shall be filled with flowable fill or removed. All pipes and structures within the excavation limits shall be removed and disposed of by the Contractor at his own cost and will not be measured for additional payment.

26. Addendum

Any proposed changes to the bid documents will be issued by addendum. The following addendum items are anticipated at this time:

- Responses to questions received.
- Pre-Bid meeting notes

Addendums Issued:

- Addendum #1 Bid Bond page replacement

Questions shall be received by Wednesday September 13, at 1:00 PM. The Addendum will be issued by September 14, 2023 at 2:00 pm.

QUESTIONS:

Q1: Can detours be setup?

A1: Yes, detours will be permitted when approved as part of the traffic control plan. When work operations allow, the preference is to keep one lane open for through traffic to the extent possible.

Q2: Is the intent to limit work to the designated work zones (Section 11. Traffic Control)?

A2: No, the intent is to reduce disturbance to the businesses and vehicle travel through the project limits. Intent is to limit the extent of road reconstruction work so that only one work zone is unpaved at one time. The City may consider road reconstruction work in one zone while drainage work occurs in another.

**CORPORATE DRIVE RECONSTRUCTION
PORTSMOUTH, NEW HAMPSHIRE**

**Pre-Bid Meeting
Sign In Sheet**

**680 Peverly Hill Road
September 7th, 2022 at 1:00 P.M.**

<u>Persons Attending:</u>	<u>Representing:</u>	<u>Telephone/Cell and E-mail:</u>
Dave Desfosses	City of Portsmouth	P: (603) 766-1411 E: djdesfosses@cityofportsmouth.com
Erich Fiedler PE	City of Portsmouth	P: (603) 766-1421 E: esfiedler@cityofportsmouth.com
Jared Sheehan	Pease Development Authority	P: (603) 433-1331 E: J.Sheehan@peasedev.org
Benjamin T. Dreyer, P.E.	Underwood Engineers	P: (603) 436-6192 E: bdreyer@underwoodengineers.com
Kate L. Varney	Underwood Engineers	P: (603) 436-6192 E: kvarney@underwoodengineers.com
RENE L. FERSON	DEC. CONSTRUCTION Co.	P: 207-247-6023 E: KLARCTOTR@YAHOO.COM
Sean Milligan	Sargent	P: 207-944-3602 E: SMilligan@sargent.us

<u>Persons Attending:</u>	<u>Representing:</u>	<u>Telephone/Cell and E-mail:</u>
Dave Cribbie	GW Brooks	603-539-6211 Dave@GWBrooks.com
Bernie Lee	Severino	603-234-8516 blee@severinocontracting.com
Scott Bonneau	S.U.R. Construction, Inc	603-332-4554 sbonneau@surconstruction.com

CORPORATE DRIVE RECONSTRUCTION

Questions received after Pre-Bid Meeting
(Through September 13, 2023)

- Q1: Specification Section 1008.1 / 4.3.2 – Request reconsideration of the method of measurement. Utilities mismarked or mislabeled by 6-feet should not be the responsibility of the contractor. Requesting this be amended to follow dig safe regulations.
- A1: *Dig Safe Regulations (NH Code of Administrative Rules-Puc 800) generally describe the Tolerance Zone as the width of the utility line plus 18” each side. Addendum No. 2 revises the language in Section 1008.1 so that payment will be measured when the utility is found to be more than 1.5’ outside the limits of the Tolerance Zone marked in the field or greater than 6’ from the location shown on the plan.*
- Q2: The Corporate Drive Typical Section and the Roadway Cross Sections show the gravel section only extending to the curb line. Is this the intent? It appears the Quantity Schedule calculated the Common Excavation Item and the Crushed Stone (Fine) Item we also calculate this way. Generally, we see the gravel section extending beyond the curb line.
- A2: *The Corporate Drive Typical Section includes granite curb which is detailed on DWG-D3. The Corporate Drive Typical Section shows crushed stone (fine) subbase extending to the back of the curb and is to be paid as Item 304.4 which is also reflected in the roadway quantity schedule on DWG-G1. In the referenced Granite Curb Detail, crushed gravel extends 12” beyond the back of curb which is incidental to curb installation (Item 609.X).*
- Q3: It was discussed during the Pre-Bid meeting the intent of Item 604.4 – Reconstructing/Adjusting Catch Basin & Drop Inlet. Our understanding is that this item pays for the removal and replacement of existing frame & grates with NHDOT Type B frame & grate, but it also includes “some” cone sections and/or top slab replacement. Requesting further definition of “some”. This is a large quantity and the work required to replace a cone section and/or top slab is far more than just a frame and grate.
- A3: *Addendum No. 2 adds Paragraph 5.8 to Specification Section 604 which describes the basis of payment for reconstructing existing structures and raising the castings to grade. Addendum No. 2 also adds Item 604.41 Reconstructing Drain Structures – Top Slabs, Cones and Barrel Sections to the Bid Schedule. The intent is to provide separate items for reconstructing vs. adjusting.*

Q4: It was also noted the existing catch basins to receive a new cone and/or top slab are barrel block or old pre-cast. Can a detail be provided as to how the contractor is to install the new cone section and/or top slab on an existing barrel block catch basin. We do not expect new pre-cast cone sections and/or top slab to match up to these existing catch basins.

A4: *Addendum No. 2 adds a detail for reconstructing existing drain structures. New top slabs will have a smooth joining surface without ship-lap joints. Bitumastic sealant will be used to seat the new slab top on the existing structure. Void spaces in the existing masonry will be filled with concrete.*

Q5: Amendment 5.5 to Section 403 states joint adhesive is subsidiary. Please clarify where joint adhesive will be required; binder course, wearing course, driveway tie ins, etc.

A5: *Joint adhesive will be required at the centerline pavement joint for both the binder and wearing courses on Corporate Drive. See Corporate Drive Typical Section on DWG-D2.*

Q6: Please confirm all manhole covers require cam lock mechanisms.

A6: *Yes, all drain manhole covers require cam lock mechanisms. See DWG D5 and Specification Section 604 -2.11.1*

Q7: Please provide requirements for the water repellant treatment of new drainage structures. Section 604/5.1.3

A7: *See Specification Section 534 as referenced in 604.3.8.1 for water repellant treatment.*

Q8: Please clarify the geotextile required for the underdrains. There are no NHDOT qualified products that meet the requirements of Section 605 Amendment 2.10.

A8: *Note that geotextile does not have to be on the NHDOT qualified product list. Addendum No. 2 modifies requirements for geotextile used in aggregate underdrains by allowing for non-woven geotextiles that are named on the NHDOT qualified products list.*

Q9: Will 5” wide curb be acceptable for new curb areas. The existing appears to be 5” wide instead of the Portsmouth standard 6” wide.

A9: *Yes, 5” wide curb will be accepted.*

Q10: The drain line between DMH 17 and DMH 18 is labeled as 12" PE on the plan view and 12" PVC on the profile view, please clarify.

A10: *Addendum No. 2 changes the profile view label for the 12" PVC drain pipe to 12" CPE drain pipe.*

Q11: Will the watermain sleeves need to be de-beaded?

A11: *Yes, see Specification Section 611.4140 Paragraph 2.2.1.7*

Q12: Requesting the engineers estimated project cost.

A12: *The Engineer's Estimate is \$4.4M.*

Q13: Do you anticipate any ledge on this project?

A13: *Refer to the following information provided in the Bid Documents related to ledge:*

- *Appendix A - Geotech Report (and boring logs)*
- *Depth to refusal from subsurface explorations and record locations of ledge are shown in profiles on the Drawings*
- *Bid Item 206.2 Rock Structure Excavation is provided if/when ledge is encountered*

Q14: Will the "Portsmouth Low RAP" Mix Design be required?

A14: *Yes. Addendum No. 2 incorporates the "Portsmouth Low RAP" Mix Design into Specification Section 403.*

CONTRACTOR'S BID SCHEDULE

Item No.	Est. Quantity	Units	Item Description (and Unit Price written in words)		Unit Price	Amount
SCHEDULE 1 - DRAINAGE IMPROVEMENTS						
201.21	5	Ea.*	Removing Small Trees (where directed): _____ Dollars and _____ Cents per	Ea.*	/ Ea.*	
201.22	2	Ea.*	Removing Large Trees (where directed): _____ Dollars and _____ Cents per	Ea.*	/ Ea.*	
201.4	7	Ea.*	Removing Stumps (where directed): _____ Dollars and _____ Cents per	Ea.*	/ Ea.*	
201.52	1	Allowance	Trimming of Trees Seven Thousand Five Hundred Dollars and Zero Cents	Allowance	\$7,500 / Allowance	\$7,500
202.31	75	CY	Fill and Abandon Pipes _____ Dollars and _____ Cents per	CY	/ CY	
202.32	50	CY	Fill and Abandon Structure _____ Dollars and _____ Cents per	CY	/ CY	
202.41	175	LF	Removal of Existing Pipe (0-24" Dia.) _____ Dollars and _____ Cents per	LF	/ LF	

CONTRACTOR'S BID SCHEDULE

Item No.	Est. Quantity	Units	Item Description (and Unit Price written in words)		Unit Price	Amount
202.43	50	LF*	Removal and Disposal of Asbestos (ACM) Pipe, 0-24" Diameter: _____ Dollars and _____ Cents per	LF*	/ LF*	
206.19	100	CY*	Common Structure Excavation - Exploratory: _____ Dollars and _____ Cents per	CY*	/ CY*	
206.2	100	CY*	Rock Structure Excavation: _____ Dollars and _____ Cents per	CY*	/ CY*	
209.3	100	CY*	Granular Backfill (Sand) (where directed) _____ Dollars and _____ Cents per	CY*	/ CY*	
403.99	700	Ton*	Temporary Pavement (Where Directed): _____ Dollars and _____ Cents per	Ton*	/ Ton*	
603.0001	1,000	LF*	Video Inspection (Where Directed) _____ Dollars and _____ Cents per	LF*	/ LF*	
603.0002	1,600	LF	Heavy Cleaning & Video Inspection (Existing Drains) (where directed) _____ Dollars and _____ Cents per	LF	/ LF	

CONTRACTOR'S BID SCHEDULE

Item No.	Est. Quantity	Units	Item Description (and Unit Price written in words)		Unit Price	Amount
603.81018	1,700	LF	18" PVC SDR 35 Drain Pipe _____ Dollars and _____ Cents per	LF	/ LF	
603.82212	1,400	LF	12" PE Pipe (Smooth Interior): _____ Dollars and _____ Cents per	LF	/ LF	
603.82215	1,000	LF	15" PE Pipe (Smooth Interior): _____ Dollars and _____ Cents per	LF	/ LF	
604.007	60	Ea.	Polyethylene Liner _____ Dollars and _____ Cents per	Ea.	/ Ea.	
604.0008	28	Ea.	Catch Basin Hoods (12" to 18" Diameter) _____ Dollars and _____ Cents per	Ea.	/ Ea.	
604.12403	15	Ea.	Catch Basin, Type B, 4 ft. Diameter, 3' Sump: _____ Dollars and _____ Cents per	Ea.	/ Ea.	
604.12404	10	Ea.	Catch Basin, Type B, 4 ft. Diameter, 4' Sump: _____ Dollars and _____ Cents per	Ea.	/ Ea.	

CONTRACTOR'S BID SCHEDULE

Item No.	Est. Quantity	Units	Item Description (and Unit Price written in words)		Unit Price	Amount
604.12444	2	Ea.	Catch Basin, Type B Square 4x4x4, 3' Sump: _____ Dollars and _____ Cents per	Ea.	/ Ea.	
604.12503	1	Ea.	Catch Basin, Type B, 5 ft. Diameter, 3' Sump: _____ Dollars and _____ Cents per	Ea.	/ Ea.	
604.324	13	Ea.	Drainage Manholes (4-ft. Diameter): _____ Dollars and _____ Cents per	Ea.	/ Ea.	
604.325	8	Ea.	Drainage Manholes (5-ft. Diameter): _____ Dollars and _____ Cents per	Ea.	/ Ea.	
604.326	2	Ea.	Drainage Manholes (6-ft. Diameter): _____ Dollars and _____ Cents per	Ea.	/ Ea.	
604.41	50	VF*	Reconstructing Drain Structures _____ Dollars and _____ Cents per	VF*	/ VF*	
604.62	1	Ea.	Manhole Covers & Frames _____ Dollars and _____ Cents per	Ea.	/ Ea.	

CONTRACTOR'S BID SCHEDULE

Item No.	Est. Quantity	Units	Item Description (and Unit Price written in words)		Unit Price	Amount
604.72	31	Ea.	Grates & Frames, Type B _____ Dollars and _____ Cents per	Ea.	/ Ea.	
604.811	25	Ea.	Field Core Existing Structure (6" to 18" Diameter Pipe) _____ Dollars and _____ Cents per	Ea.	/ Ea.	
604.93	50	LF*	Trench Stabilization - Geogrid (where directed): _____ Dollars and _____ Cents per	LF*	/ LF*	
628.3	11,600	LF	Sawed Pavement _____ Dollars and _____ Cents per	LF	/ LF	
611.9512	100	SF*	2"x 24" Rigid Insulation _____ Dollars and _____ Cents per	SF*	/ SF*	
1008.12	2	Ea.*	Waterline Relocation at Drain Crossing _____ Dollars and _____ Cents per	Ea.*	/ Ea.*	
1008.13	5	Ea.*	Unknown Utilitiy Crossing _____ Dollars and _____ Cents per	Ea.*	/ Ea.*	
1008.14	5	Ea.*	Repair of Unknown or Mismarked Utility _____ Dollars and _____ Cents per	Ea.*	/ Ea.*	
TOTAL SCHEDULE 1						

CONTRACTOR'S BID SCHEDULE

Item No.	Est. Quantity	Units	Item Description (and Unit Price written in words)		Unit Price	Amount
SCHEDULE 2 - ROAD RECONSTRUCTION						
203.1	13,900	CY	Common Excavation: _____ Dollars and _____ Cents per	CY	/ CY	
203.6	100	CY	Embankment In Place (F): _____ Dollars and _____ Cents per	CY	/ CY	
214	1	Unit	Fine Grading: _____ Dollars and _____ Cents per	Unit	/ Unit	
304.3	25	CY	Crushed Gravel (sidewalks) _____ Dollars and _____ Cents per	CY	/ CY	
304.35	800	CY	Crushed Gravel for Drives _____ Dollars and _____ Cents per	CY	/ CY	
304.4	9,000	CY	Crushed Stone (Fine) _____ Dollars and _____ Cents per	CY	/ CY	
403.11A	4,300	Ton	Hot Bit. Pavement - Machine Method (Binder): _____ Dollars and _____ Cents per	Ton	/ Ton	

CONTRACTOR'S BID SCHEDULE

Item No.	Est. Quantity	Units	Item Description (and Unit Price written in words)		Unit Price	Amount
403.11B	1,900	Ton	Hot Bit. Pavement - Machine Method (Wearing Course): _____ Dollars and _____ Cents per	Ton	/ Ton	
403.12	800	Ton	Hot Bit. Pavement - Hand Method: _____ Dollars and _____ Cents per	Ton	/ Ton	
417	1,400	SY	Cold Planing Bituminous Surfaces _____ Dollars and _____ Cents per	SY	/ SY	
604.4	60	VF*	Reconstructing/Adjusting Catch Basins _____ Dollars and _____ Cents per	VF*	/ VF*	
604.5	23	VF	Reconstructing/Adjusting Drain Manholes _____ Dollars and _____ Cents per	VF	/ VF	
604.51	64	VF	Reconstructing/Adjusting Sewer Manholes _____ Dollars and _____ Cents per	VF	/ VF	
605.79	5	Ea.	Underdrain Flushing Basin _____ Dollars and _____ Cents per	Ea.	/ Ea.	

CONTRACTOR'S BID SCHEDULE

Item No.	Est. Quantity	Units	Item Description (and Unit Price written in words)		Unit Price	Amount
605.82251	3,300	LF	Aggregate Underdrain Type 2, w. 6" Perf. PE Pipe: _____ Dollars and _____ Cents per	LF	/ LF	
608.34	120	SY	4 in. Reinforced Concrete Sidewalk _____ Dollars and _____ Cents per	SY	/ SY	
608.36	60	SY	6 in. Reinforced Concrete Sidewalk _____ Dollars and _____ Cents per	SY	/ SY	
608.54	15	SY	Detectable Warning Devices, Cast Iron _____ Dollars and _____ Cents per	SY	/ SY	
609.01	3,700	LF	Straight Granite Curb _____ Dollars and _____ Cents per	LF	/ LF	
609.5	8,600	LF	Reset Granite Curb _____ Dollars and _____ Cents per	LF	/ LF	
632.0104	27,000	LF	Retroreflective Paint Pavement Marking, 4" Line _____ Dollars and _____ Cents per	LF	/ LF	

CONTRACTOR'S BID SCHEDULE

Item No.	Est. Quantity	Units	Item Description (and Unit Price written in words)		Unit Price	Amount
632.0112	300	LF	Retroflective Paint Pavement Marking, 12" Line _____ Dollars and _____ Cents per	LF	/ LF	
632.3112	300	LF	Retroflective Thermoplastic Pavement Marking, 12" Line _____ Dollars and _____ Cents per	LF	/ LF	
632.32	80	SF	Retroflective Thermoplastic Pavement Marking, Symol or Word _____ Dollars and _____ Cents per	SF	/ SF	
646.512	8,700	SY	Turf Establishment w. Mulch, Tackifiers and Loam (F): _____ Dollars and _____ Cents per	SY	/ SY	
912	1	Allow	R&R Landscaping: _____ Dollars and _____ Cents per	Allow	/ Allow	
TOTAL SCHEDULE 2						

CONTRACTOR'S BID SCHEDULE

Item No.	Est. Quantity	Units	Item Description (and Unit Price written in words)		Unit Price	Amount
SCHEDULE 3 - COMMON ITEMS						
618.61	1	Allow	Uniformed Officers w/Vehicle (Allowance): <div style="display: flex; justify-content: space-between;"> <u>Twenty Thousand</u> Dollars and _____ </div> <div style="display: flex; justify-content: space-between;"> <u>Zero</u> Cents _____ </div>		\$20,000	\$20,000
				Allow	/ Allow	
618.7	2,300	Hrs.	Flaggers <div style="display: flex; justify-content: space-between;"> _____ Dollars and _____ </div> <div style="display: flex; justify-content: space-between;"> _____ Cents per _____ </div>			
				Hrs.	/ Hrs.	
619.1	1	Unit	Maintenance of Traffic: <div style="display: flex; justify-content: space-between;"> _____ Dollars and _____ </div> <div style="display: flex; justify-content: space-between;"> _____ Cents per _____ </div>			
				Unit	/ Unit	
619.25	72	Wk	Portable Changeable Message Sign: <div style="display: flex; justify-content: space-between;"> _____ Dollars and _____ </div> <div style="display: flex; justify-content: space-between;"> _____ Cents per _____ </div>			
				Wk	/ Wk	
645.44	850	SY*	Temporary Slope Stabilization Type D (Wildlife Friendly) <div style="display: flex; justify-content: space-between;"> _____ Dollars and _____ </div> <div style="display: flex; justify-content: space-between;"> _____ Cents per _____ </div>			
				SY*	/ SY*	
645.512	1,000	LF*	Compost Sock for Erosion & Sediment Control: <div style="display: flex; justify-content: space-between;"> _____ Dollars and _____ </div> <div style="display: flex; justify-content: space-between;"> _____ Cents per _____ </div>			
				LF*	/ LF*	
645.531	2,600	LF*	Silt Fence: <div style="display: flex; justify-content: space-between;"> _____ Dollars and _____ </div> <div style="display: flex; justify-content: space-between;"> _____ Cents per _____ </div>			
				LF*	/ LF*	

CONTRACTOR'S BID SCHEDULE

Item No.	Est. Quantity	Units	Item Description (and Unit Price written in words)		Unit Price	Amount
645.533	70	Ea.	Inlet Filter Basket _____ Dollars and _____ Cents per	Ea.	/ Ea.	
645.7	1	Unit	Storm Water Pollution Prevention Plan: _____ Dollars and _____ Cents per	Unit	/ Unit	
645.701	1	Unit	Implement and Maintain Storm Water Pollution Prevention Plan: _____ Dollars and _____ Cents per	Unit	/ Unit	
645.71	100	HR	Monitoring SWPPP and Erosion and Sediment Controls _____ Dollars and _____ Cents per	HR	/ HR	
651.001	5	Ea.*	Evergreen Tree, 6'-8' High (where directed): _____ Dollars and _____ Cents per	Ea.*	/ Ea.*	
652.004	1	Ea.*	Deciduous Tree, 4" Caliper (where directed): _____ Dollars and _____ Cents per	Ea.*	/ Ea.*	
692	1	Unit	Mobilization: _____ Dollars and _____ Cents per	Unit	/ Unit	

CONTRACTOR'S BID SCHEDULE

Item No.	Est. Quantity	Units	Item Description (and Unit Price written in words)		Unit Price	Amount
915	1,000	LB	Calcium Chloride for Dust Control _____ Dollars and _____ Cents per	LB	/ LB	
1008.2	1	Allow	Alterations and Addition as Needed - Soil Testing Allowance Seven Thousand Five Hundred Dollars and Zero Cents	Allow	\$7,500 / Allow	\$7,500
1010.15	1	Allow.	Fuel Adjustment Ten Thousand Dollars and Zero Cents	Allow.	\$10,000 / Allow.	\$10,000
1010.2	1	Allow	Asphalt Cement Adjustment: Ten Thousand Dollars and Zero Cents	Allow	\$10,000 / Allow	\$10,000
TOTAL SCHEDULE 3						

CONTRACTOR'S BID SCHEDULE

Item No.	Est. Quantity	Units	Item Description (and Unit Price written in words)		Unit Price	Amount
SCHEDULE 4 - STORMWATER TREATMENT						
1010.1101	11	Unit	Pre-Treatment Chamber _____ Dollars and _____ Cents per	Unit	/ Unit	
1010.1102	3	Unit	High Rate Biofiltration Unit - Small _____ Dollars and _____ Cents per	Unit	/ Unit	
1010.1103	1	Unit	High Rate Biofiltration Unit - Medium _____ Dollars and _____ Cents per	Unit	/ Unit	
1010.1104	1	Unit	High Rate Biofiltration Unit-Large _____ Dollars and _____ Cents per	Unit	/ Unit	
1010.12	1	Unit	Flow Through Stormwater Treatment Unit _____ Dollars and _____ Cents per	Unit	/ Unit	
TOTAL SCHEDULE 4						

CONTRACTOR'S BID SCHEDULE

Item No.	Est. Quantity	Units	Item Description (and Unit Price written in words)		Unit Price	Amount
SCHEDULE 5 - Bid Add Alt. #1: Sidewalk Extension (STA 70+00 to STA 72+50)						
304.3	20	CY	Crushed Gravel (sidewalks) _____ Dollars and _____ Cents per	CY	/ CY	
608.34	80	SY	4 in. Reinforced Concrete Sidewalk _____ Dollars and _____ Cents per	SY	/ SY	
608.36	25	SY	6 in. Reinforced Concrete Sidewalk _____ Dollars and _____ Cents per	SY	/ SY	
608.54	45	SY	Detectable Warning Devices, Cast Iron _____ Dollars and _____ Cents per	SY	/ SY	
TOTAL SCHEDULE 5						<input type="text"/>
SCHEDULE 6 - Bid Add Alt. #2: Sleeves for Non-Potable Water Pipe						
611.41416A	1	Unit	16" HDPE DR11 Casing Pipe (~STA 58+00) - Oak Ave. _____ Dollars and _____ Cents per	Unit	/ Unit	
611.41416B	1	Unit	16" HDPE DR11 Casing Pipe (~STA 93+75) Grafton Road _____ Dollars and _____ Cents per	Unit	/ Unit	
TOTAL SCHEDULE 6						<input type="text"/>

BID TOTAL - DRAINAGE AND ROAD

(Schedules 1, 2, 3 + 4)

Bid Add Alt. #1 - Sidewalks

(Schedule 5)

Bid Add Alt. #2 Sleeves

(Schedule 6)

Name of Contractor: _____

Date: _____

Notes to Bidders:

1. The lowest bid will be determined based on the lowest value for Bid Total - Drainage and Road (Schedules 1, 2, 3 and 4).
2. (*) Means Indeterminate Quantity.
3. (F) Means Final Quantity
4. The owner reserves the right to waive any informalities or minor defects or reject any and all bids and to take any other action that is in their own best interest.
5. Unit prices in words shall govern over unit prices in numbers in determination of Bid Total.