



## ADDENDUM #2

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To: Known Qualified Firms  
From: Porter Co. Dept. of Development & Storm Water Management  
Date: May 11, 2021  
Subject: CR 550 E Drainage Improvements, Phase 2  
Construction Services

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The attention of all known qualified firms are called to the following Addendum.

This Addendum, designated as Addendum #2, is hereby included in and made a part of the Request for Quotes, whether or not attached thereto. Except as modified by this Addendum, all requirements of the Request for Quotes shall remain in full force and effect.

Firms shall acknowledge the receipt of this Addendum #2 on his or her quote form.

### **Clarifications & Modifications**

The following clarifications and/or modifications to the Request for Quotes are being provided or are being made by the Department in response to questions posed and/or as determined necessary by the Department and are hereby included in and made a part of the Request for Quotes.

### **PRE-SUBMITTAL MEETING MINUTES & SIGN-IN SHEET**

1. The pre-submittal meeting minutes and sign-in sheet are attached to this Addendum. Please note that the meeting minutes may contain additional information related to the various items of work that should be considered when preparing quotes for this project.

### **CONTRACT TIMES**

2. Contract Times

The substantial completion date listed in the Request for Quotes has been extended from July 31, 2021 to September 3, 2021. The project shall be completed and ready for final payment, 30 days, or as soon as possible, thereafter; such final completion date being October 3, 2021.

### **TECHNICAL SPECIFICATIONS**

3. Underdrain

The technical specifications have been revised to include a specification for underdrain, which was not included in the original request for quotes. The technical specification for "Underdrain" is attached to this addendum. This should address questions that the Department has received regarding the construction requirements associated with the underdrain and measurement & payment of the various items of work involved in the construction of the underdrain.

4. Materials – Filter Fabric

The technical specifications have been revised to include a material specification for filter fabric, which was not originally included in the request for quotes. The material specification for "Filter Fabric" is attached to this addendum. This should address questions that the Department has received associated with the requirements for the filter fabric.



## **PUBLIC OPENING OF QUOTES**

### 5. Public Opening of Quotes

As stated in the Request for Quotes, quotes will be opened at 10:00 a.m., or as soon thereafter as possible, on Thursday, May 13, 2021, at a public opening of quotes to be held at 10:00 a.m. local time at the Porter Co. Administration Center, 155 Indiana Ave., Ste. 311, Valparaiso, Indiana 46383. In accordance with the Department's COVID-19 Safety & Action Plan, the public opening of quotes will also be conducted live via videoconference. All respondents, as well as members of the public, are welcome to attend and participate in the opening of quotes, either in person or via videoconference.

The following information may be used to access and participate in the videoconference.

Zoom Meeting:

<https://us02web.zoom.us/j/87911344351?pwd=dzljNE9LMUZQMxB2ZFRNNmxVWFRwQT09>

Meeting ID: 879 1134 4351

Passcode: ZVnw4S

At the meeting, quotes will be opening and, unless obviously non-responsive, read aloud publicly. Respondents are invited to be present at the opening of quotes. An abstract of the total quotes will be made available to respondents after the opening of quotes.

## **ATTACHMENTS**

- PRE-SUBMITTAL MEETING MINUTES & SIGN-IN SHEET
- REVISED TECHNICAL SPECIFICATIONS

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## **MEETING MINUTES**

May 6, 2021, 10:00 am  
155 Indiana Ave., Ste. 311 and Videoconference  
Pre-Submittal Meeting  
CR 550 E Drainage Improvements, Phase 2

### **1. Sign-in and Introductions**

A sign-in sheet was passed around to all attendees (attached) and introductions were made.

### **2. Project Overview**

The project is located at 837 N 550 E, within an existing drainage easement, in Section 23, Township 36 North, Range 5 West, in Jackson Township. The project consists of the installation of a bioretention area to complement recently completed drainage improvements that were constructed to address long-standing drainage and flooding issues within the surrounding area.

### **3. Overview of Request for Quotes & Submittal Requirements**

- A. Quote Form
- B. Basis of Quote Form
- C. Contractor's Certifications, Statements, Affidavits, and Representations Form
- D. Contractor's Financial Statement
- E. Contractor's Oath and Affirmation Form

### **4. Project Description**

- A. Installation of bioretention area.
  - i. 707 CY of Bioretention Area Excavation. Includes excavation to achieve lines and grades shown on the plans, including 2 feet of excavation within the bioretention area.
  - ii. 247 CY of Bioretention Area Fill. Per Technical Specifications.
  - iii. 843 SY of Shaping, Trimming, and Finishing for Bioretention Area. Includes bioretention area seed mix, shredded hardwood bark mulch, erosion control blanket, and straw mulch to restore bioretention area and other areas disturbed during the performance of the work.
- B. Clearing & Tree Removal.
  - i. On-site open burning will not be allowed.
- C. 90 LF of Underdrain.
- D. Excess Excavated Material to be disposed of off-site.

### **5. Other Items**

- A. Overview of important General Conditions.
- B. Questions during RFQ process.
- C. Quotes will remain open for 60 calendar days.
- D. Lowest, responsive and responsible respondent will be awarded contract.
- E. Acknowledgement of Addenda
- F. Successful Contractor to provide the following within 10 days of NOA

- i. Executed Contract and Certificates of Insurance.
- ii. E-Verify Affidavit and Certification Regarding Investment in Iran.
- G. Contractors shall inform themselves of existing site conditions and all conditions affecting the performance of the work.
- H. Minority and Women's Business Enterprises
  - i. Goals for this project are 7% MBE and 5% WBE participation.
  - ii. MBEs and WBEs must be certified.
- I. Owner is exempt from State Sales Tax on materials to be incorporated into the work. Sales and use tax on such materials shall not be included in quotes.
- J. Utility Coordination
  - i. Contractor shall confirm location and depth of utilities prior to start of work.

## 6. Notable Dates

- A. Pre-Submittal Meeting: Thu., May 6 10:00 am local time, Porter Co. Dept. of Development and Storm Water Management, 155 Indiana Ave., Ste. 311, Valparaiso, Indiana 46383 and Videoconference.
- B. Last Day for Questions: Mon., May 10 12:00 pm local time. Final addendum to be issued by 10:00 pm local time, Tue., May 11.
- C. Quote Submittal: Thu., May 13, 2021 10:00 am local time, Porter Co. Department of Development and Storm Water Management, 155 Indiana Ave., Ste. 311, Valparaiso, Indiana 46383.
- D. Quote Opening: Thu., May 13, 2021 10:00 am local time, at a public opening of quotes, 155 Indiana Ave., Ste. 311, Valparaiso, Indiana 46383.
- E. Substantial & Final Completion:
  - i. Substantial Completion – July 31, 2021
  - ii. Final Completion – August 31, 2021

## 7. Questions

Q1: Will all of the trees in the area shown on the plans be removed?

A1: Yes, all of the trees in the area shown on the plans will be removed. Department staff have painted the north and south limits of disturbance on the east side of CR 550 E. The trees to be removed have been marked with an "X". The total amount of trees to be removed is 159 IN-DBH.

Q2: How will the spillway and underdrain connect?

A2: The invert of the spillway "envelope" is at 809.0 with the top of the spillway "envelope" at 813.0. The invert of the underdrain envelope is 809.0. The underdrain envelope shall terminate at and abut the spillway envelope. Rip rap removed from the existing spillway can be utilized in the proposed spillway.

Q3: Are there any utilities within the work area?

A3: The electric, telecommunications, and gas services are located north of the limits of disturbance. The utilities located along CR 550 E will not be in conflict with the work.

Q4: Can the onsite topsoil be used in the bioretention area fill?

A4: Yes, the on site topsoil can be stripped and used in the bioretention area fill mix or otherwise reused.

Q5: Does mulch need to be placed on top of the bioretention area?

A5: Yes, 2-3 inches of hardwood bark mulch will need to be placed on top of the bioretention area after seeding. This is in addition to the 5% hardwood bark mulch that will be mixed into the bioretention area fill.

Q6: How firm is the July 31<sup>st</sup> substantial completion deadline?

A6: The substantial completion date has been extended to September 3, 2021 with a final completion date of October 3, 2021. This extension will be addressed in Addendum 2.

CR 550 E DRAINAGE IMPROVEMENTS, PHASE 2  
 PRE-SUBMITTAL MEETING  
 MAY 6, 2021 (10:00 AM CST)

NAME	COMPANY	ADDRESS	OFFICE/CELL/FAX	EMAIL
Michael Novotney	Porter Co. Dept. of Development and Storm Water Management	155 Indiana Ave., Ste. 311 Valparaiso, IN 46383	Office: (219) 465-3507 Cell: (219) 307-3311 Fax: (219) 465-3543	<a href="mailto:mnovotney@porterco.org">mnovotney@porterco.org</a>
Chelsey Gordon ✓	Porter Co. Dept. of Development and Storm Water Management	155 Indiana Ave., Ste. 311 Valparaiso, IN 46383	Office: (219) 465-3652 Cell: (219) 252-7499 Fax:	<a href="mailto:chelsey.gordon@porterco.org">chelsey.gordon@porterco.org</a>
Byron Pavey	G.E. Marshall	1351 Joliet rd	Office: Cell: 219-608-4473 Fax:	<a href="mailto:Byron.Pavey@bemarshall.com">Byron.Pavey@bemarshall.com</a>
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SEAN DAVIDSON	GRAMMER		Office: Cell: Fax:	
			Office: Cell: Fax:	

**UNDERDRAIN****DESCRIPTION**

This work shall consist of constructing underdrains as shown on the construction plans.

**MATERIALS**

Materials shall be in accordance with the following materials specifications, which are presented elsewhere in these Technical Specifications.

**MATERIALS**

- (1) Underdrain Backfill
- (2) Filter Fabric

**CONSTRUCTION REQUIREMENTS**

This work shall be completed in accordance with the Porter County Supplemental Design and Construction Standards/Specifications and these technical specifications. In case of conflict between these technical specifications and any part or parts of said Porter County Supplemental Design and Construction Standards/Specifications, the Engineer shall determine which specifications shall take precedence and govern.

**(a) Excavation**

Underdrains shall be constructed in trenches free of water, excavated either in embankments or natural ground. Trenches shall be dewatered through the use of diversion channels or other methods approved by the Engineer before proceeding with the construction.

Trenches shall be excavated to the bottom of the underdrain and 24 IN wide. In no case shall underdrains be installed in trenches exceeding 5 FT in depth.

If the width of the trench exceeds the maximum horizontal dimension specified above as a result of careless or faulty construction methods, that portion of the trench shall be corrected by backfilling in 8 IN lifts and again excavating the trench to the required width.

Trenches shall be excavated so that vertical faces are maintained at least to an elevation 12 IN above the bottom of the trench. If the trench has been made deeper than necessary, the foundation shall be brought to the proper grade by backfilling in 8 IN lifts and again excavating the trench, as needed, to the required depth.

When all or a portion of an underdrain will be in fill, the embankment, or a portion thereof, shall be constructed prior to excavating the trench. The embankment shall be constructed to a height which will provide approximately 12 IN of cover over the bottom of the underdrain, except that in no case shall the height of the embankment constructed result in a finished trench depth exceeding 5 FT. The width of the top of the embankment shall be a minimum of 2 FT on each side of the trench, measured at right angles to its centerline, and the longitudinal slopes shall be 6:1 (H:V) or flatter. The embankment shall be constructed according to the requirements of these technical specifications, except the material shall be suitable material meeting the approval of the Engineer.

**(b) Filter Fabric**

Filter fabric shall be placed along the bottom and sides of the trench, for the entire length of the trench, in accordance with these technical specifications. Enough excess filter fabric shall be provided along one side of the trench to be folded over on top of the trench to cover the trench upon completion of initial backfilling.

**(c) Backfilling**

No backfill shall be placed until the trench and filter fabric have been approved by the Engineer.

The trench shall be kept free from water while the underdrain is being placed. Trenches shall be dewatered through the use of diversion channels or other methods approved by the Engineer before proceeding with the construction.

As soon as the condition of the underdrain will permit, the entire width of the trench shall be backfilled with suitable underdrain backfill material to a height of 12 IN above the bottom of the trench. All initial backfill material shall be deposited in such a manner as not to damage the filter fabric. The initial backfill material shall be placed in 8 IN lifts and compacted by mechanical means to the satisfaction of the Engineer.

Once the initial backfilling has been completed, the excess filter fabric shall be provided along one side of the trench shall be folded over on top of the trench to cover the trench.

The remainder of the trench shall then be backfilled to the existing adjacent grade or finished surface as rapidly as the condition of the underdrain will permit. The backfill material shall consist of bioretention area fill.

**(f) Shaping, Trimming & Finishing**

After backfilling has been completed, the top of the trench shall be shaped, trimmed, and finished to the lines, grades, and elevations shown on the construction plans, in accordance with these technical specifications.

**MEASUREMENT**

UNDERDRAIN shall not be measured for payment, but shall be considered complete following inspection and acceptance of the work by the Department.

This work shall be paid for at the contract quantity and/or quantities for UNDEDRDRAIN shown on the basis of quote or basis of bid form. The entire length of UNDERDRAIN necessary to complete the work shown on the construction plans shall have been used in computing such quantity.

EXCAVATION FOR UNDERDRAIN shall be considered as incidental to this work and will not be measured for payment.

DEWATERING FOR UNDERDRAIN shall be considered as incidental to this work and will not be measured for payment.

FILTER FABRIC FOR UNDERDRAIN shall be considered as incidental to this work and will not be measured for payment.

UNDERDRAIN BACKFILL FOR UNDERDRAIN shall be considered as incidental to this work and will not be measured for payment.

**PAYMENT**

UNDERDRAIN shall paid for at the contract unit price(s) per foot for UNDERDRAIN specified in the contract documents.

Such unit price shall include all preparation necessary to complete the work, as well as the furnishing, transporting, and/or placing of all material, labor, tools, equipment, and other incidental items necessary to complete the work.

EXCAVATION FOR UNDERDRAIN will not be paid for directly but shall be considered as included in this work and shall be included in the unit prices for this work and no additional compensation will be allowed.

DEWATERING FOR UNDERDRAIN will not be paid for directly but shall be considered as included in this work and shall be included in the unit prices for this work and no additional compensation will be allowed.

FILTER FABRIC FOR UNDERDRAIN will not be paid for directly but shall be considered as included in this work and shall be included in the unit prices for this work and no additional compensation will be allowed.

UNDERDRAIN BACKFILL FOR UNDERDRAIN will not be paid for directly but shall be considered as included in this work and shall be included in the unit prices for this work and no additional compensation will be allowed.

**FILTER FABRIC**

Filter fabric used to prevent soil piping and erosion and the migration of soil particles between layers of earth, rock, or other materials shall be in accordance with the following.

The filter fabric material shall consist of non-woven filaments formed from a plastic yarn of a long chain synthetic polymer comprised of at least 85 percent (by weight) polyolefins or polyesters, preferably polypropylene, and shall contain stabilizers and/or inhibitors added to the base plastic to make the filaments resistant to deterioration due to exposure to ultraviolet light and heat. After forming, the fabric shall have been processed so that the filaments will retain their relative positions with respect to one another. The fabric shall be free of defects or flaws which significantly affect its physical and/or filtering properties.

The filter fabric shall have been formed in widths of not less than 6 feet. Sheets of filter fabric may be sewn together with a thread consisting of a material meeting the chemical requirements for plastic yarn provided above to form wider fabric widths. The sheets of filter fabric shall be sewn together at the point of manufacture or location approved by the Department.

The texture of the fabric shall be such that the earth, rock, and other materials placed over the filter fabric will remain in an equilibrium state and will not slip or slide. The filter fabric shall have a high dimensional stability when set, shall have good soil filtration characteristics, shall have a high resistance to tear propagation in all directions, and shall have the following properties.

- (1) Weight of Fabric. Weight of fabric shall be a minimum of 8 ounces per square yard (8 oz./sq. yd.).
- (2) Burst Strength. Burst strength shall be a minimum of 300 pounds per square inch (300 lb./sq. in.).
- (3) Trapezoidal Tear Strength. Tear strength shall be a minimum of 75 pounds (75 lb.).
- (4) Grab Tensile Strength. Grab tensile strength shall be a minimum of 200 pounds (200 lb.).
- (5) Grab Tensile Elongation. Grab tensile elongation shall be a minimum of 20%.
- (6) Apparent Opening Size. Apparent opening size shall be less than a No. 80 sieve (i.e., 0.0077 in.).
- (7) Water Flow Rate. Water flow rate shall be a minimum of 80 gallons per minute per square foot (80 gpm/sq. ft.).

With each shipment of filter fabric, the contractor shall provide the Engineer with the vendor's certified test reports attesting to the fact that the filter fabric contained in the shipment meets the above requirements.

Installation shall occur promptly following delivery of the filter fabric. If installation will be significantly delayed following delivery, precautions shall be taken to protect the filter fabric from damage and deterioration. The filter fabric shall be stored above ground, inside, away from sunlight, and at temperatures less than 140°F.