
ADDENDUM #2
Issued April 29th, 2022
Bid #14-22
Peirce Island Trail
Extension Fencing

Beginning page 9, replace proposal form with updated proposal form, attached, which includes additional line items.

Add the following technical specifications to page 41: Section 01568 Erosion Control, Sedimentation and Containment of Construction Materials, and Section 02100 Site Preparation

Add attached detail sheet titled 'Erosion Control Details'

Remove special provision on page 42 stating "All clearing of areas needed for the installation of the fence shall be completed by the City before work may begin on the installation of the fence"

End of Addendum

PROPOSAL FORM

Peirce Island Trail Extension Fencing

CITY OF PORTSMOUTH, N.H.

To the City of Portsmouth, New Hampshire, herein called the Owner.

The undersigned, as Bidder, herein referred to as singular and masculine declares as follows:

1. All interested in the Bid as Principals are named herein;
2. This bid is not made jointly, or in conjunction, cooperation or collusion with any other person, firm, corporation, or other legal entity;
3. No officer, agent or employee of the Owner is directly or indirectly interested in this Bid;
4. The bidder has carefully examined the sites of the proposed work and fully informed and satisfied himself as to the conditions there existing, the character and requirements of the proposed work, the difficulties attendant upon its execution and the accuracy of all estimated quantities stated in this Bid, and the bidder has carefully read and examined the Drawings, Agreement, Specifications and other Contract Documents therein referred to and knows and understands the terms and provisions thereof;
5. The bidder understands that the quantities of work calculated in the Bid or indicated on the Drawings or in the Specifications or other Contract Documents are approximate and are subject to increase or decrease or deletion as deemed necessary by the Portsmouth City Engineer. Any such changes will not result in or be justification for any penalty or increase in contract prices; and agrees that, if the Bid is accepted the bidder will contract with the Owner, as provided in the Contract Documents, this Bid Form being part of said Contract Documents, and that the bidder will supply or perform all labor, services, plant, machinery, apparatus, appliances, tools, supplies and all other activities required by the Contract Documents in the manner and within the time therein set forth, and that the bidder will take in full payment therefor the following item prices; and
6. It is the intention of this contract that the items listed above describe completely and thoroughly the entirety of the work as shown on the plans and as described in the specifications. All other items required to accomplish the above items are considered to be subsidiary work, unless shown as a pay item.

ITEM #	EST. QTY.	UNITS	ITEM DESCRIPTION	UNIT PRICE IN FIGURES	ITEM TOTAL IN FIGURES
1	500	LF	42" Tall Fabric Fencing	\$ _____	\$ _____
2	1	L.S.	Swing Gate Assembly	\$ _____	\$ _____
3	50	Each	Posts	\$ _____	\$ _____
4	4*	Each	Posts in Rock	\$ _____	\$ _____
5	1	L.S.	Mobilization/Demobilization	\$ _____	\$ _____
6	1	L.S.	Erosion Control	\$ _____	\$ _____
7	1	L.S.	Site Preparation	\$ _____	\$ _____

* Indeterminate quantity

TOTAL FOR PROJECT AND BASIS OF AWARD

Total in Figures \$ _____

In Words \$ _____

The City reserves the right to delete any portion of the work/reduce the quantities of work represented in this bid proposal form.

The undersigned agrees that for extra work, if any, performed in accordance with the terms and provisions of the Contract Documents, the bidder will accept compensation as stipulated therein.

Date

Company

By: _____
Signature

Business Address

Title: _____

City, State, Zip Code

Telephone: _____

The Bidder has received and acknowledged Addenda No. _____ through _____.

All Bids are to be submitted on this form and in a sealed envelope, plainly marked on the outside with the Bidder's name and address and the Project name as it appears at the top of the Proposal Form.

By: _____
Signature

In order to follow the City's sustainability practices, future bid invitations/specifications may be sent electronically. Please provide an email address as to where I could email future bid invitations/specifications of this type. Thank you in advance for your cooperation.

Email Address: _____

SECTION 01568

EROSION CONTROL, SEDIMENTATION AND CONTAINMENT OF CONSTRUCTION MATERIALS

PART 1 - GENERAL

1.01 DESCRIPTION:

- A. Provide all work and take all measures necessary to control soil erosion resulting from construction operations, prevent flow of sediment from construction site, and contain construction materials (including excavation and backfill) within protected working area as to prevent damage to any stream or wetlands and waterbodies

1.02 REFERENCES:

- A. United States Environmental Protection Agency (USEPA):
 - 1. Guidelines for Erosion and Sediment Control, Planning and Implementation.
 - 2. Processes, Procedures and Methods to Control Pollution Resulting from all Construction Activity.
 - 3. EPA-833-R-06-004: Developing Your Stormwater Pollution Prevention Plan, A Guide for Construction Sites
- B. New Hampshire Department Services Stormwater Manual (2008)
- C. New Hampshire Department of Environmental Services (NHDES) Wetland Permit

1.03 SUBMITTALS:

- A. Submit the following shop drawings:
 - 1. Silt fence, compost filter socks, mats, and netting
 - 2. Temporary erosion control products proposed by Contractor.
- B. Sediment and erosion control plans and details.
- C. Prior to the start of the work, submit to Engineer, for review a Stormwater Pollution Prevention Plan (SWPPP) including a plan with detailed sketches showing the proposed methods to be used for controlling erosion during construction. The SWPPP and plan comply with the requirement of the EPA National Pollutant Discharge Elimination System General Permit for Discharges from Construction Activities.

1.04 QUALITY ASSURANCE:

- A. Use acceptable best management practices, including use of water diversion structures, diversion ditches, settling basins, and sediment traps.
- B. If construction materials are washed away during construction, remove materials from fouled areas.
- C. Engineer has authority to limit surface area of erodible earth material exposed by clearing and grubbing, excavation, borrow and fill operations and to direct immediate permanent or temporary pollution control measures to prevent contamination of any stream or wetlands, including construction of temporary berms, dikes, dams, sediment basins, sediment traps, slope drains, and use of temporary mulches, mats, or other control devices or methods to control erosion.

PART 2 - PRODUCTS

2.01 MULCHES

- A. Acceptable material as appropriate for the conditions: straw gravel, crushed stone, peat moss, pine straw or needles, wood chips, wood excelsior, or wood fiber cellulose.

2.02 SILT BARRIERS

A. Bales:

- 1. Straw bales or other suitable material acceptable to Engineer.
- 2. All bales to be at least 14"x18"x30" and securely tied with either wire band or string and staked twice per bale.
- 3. Bales shall be free of purple loosestrife and other invasive and noxious species.

B. Compost Filter Socks:

- 1. The filter sock shall be produced from a 5 mil thick continuous HDPE filament, woven into a tubular mesh netting material, with openings in the knitted mesh of 3/8" (10mm). This shall either be filled with compost to the diameter of the sock. Compost filter socks shall either be made on site or delivered to the jobsite,
- 2. Where greater than a 200-foot long section of ground is to be protected with a compost filter sock, the sock length shall be sleeved. After one sock section (200 feet) is filled and tied off (knotted) or zip tied, the second sock section shall be pulled over the first 18 inches or more and "sleeved" creating an overlap. Once overlapped, the second section is filled with compost starting at the sleeved area to create a seamless appearance. The sock may be staked at the overlapped area (where the

sleeve is) to keep the sections together. Sleeving at the joints is necessary because it reduces the opportunity for water to penetrate the joints when installed in the field.

2.03 MATS AND NETTING:

- A. Jute, excelsior and wood fiber mats as identified on the Contract Drawings, or Approved equal.
- B. Type and use shall be suitable for the work.

2.04 SYNTHETIC FILTER FABRIC:

- A. Synthetic filter fabric to be a pervious sheet of propylene, nylon, polyester or ethylene filaments and shall be certified by the manufacturer or supplier as conforming to the following requirements:

<u>Physical Property</u>	<u>Requirements</u>
Filtering Efficiency	75% (min.)
Tensile Strength at 20% (max.)	Extra Strength – 50 lbs./lin. In (min.)
Elongation	Standard Strength 30 lbs./lin. In (min.)
Flow Rate	0.3 gal./sq. ft./min. (min)

- B. Burlap to be 10 ounce per square yard fabric.
- C. Posts for filter fences either 2 x 3 or 2 x 4 inch studs or 0.5 pounds (minimum) per linear foot or steel with a minimum length of 5 feet. Steel posts to have projections for fastening wire to them.
- D. Stakes for filter barriers to be 2” x 2” hardwood or equivalent metal with a minimum length of 3 feet.
- E. Wire fence reinforcement for silt fences using standard strength filter cloth to be a minimum of 42 inches in height, a minimum of 14 gauge and have a maximum mesh spacing of 6 inches. Use where required per manufacturer’s instructions.

2.05 SEDIMENTATION TRAP:

- A. Sedimentation traps shall be sized to collect laden water during dewatering from construction site into an enclosed system. The trap shall be sized to accommodate and effectively remove solids from the maximum volume of dewatering effluent anticipated with a resulting effluent stream free of silt and other suspended solids.

PART 3 - EXECUTION

3.01 GENERAL:

- A. Do not discharge chemicals, fuels, lubricants, bitumen, raw sewage and other harmful waste into or alongside any body of water or into natural or man-made channels.
- B. Design erosion and sediment controls to handle peak runoff resulting from storm events.
- C. The Contractor shall be responsible for inspecting and maintaining these control measures to ensure their proper function and adequate sediment storage at all times. The Contractor shall remove sediment once it reaches 50 percent of the capacity of the structure. Sediment collected shall be disposed of offsite at the Contractor's cost.

3.02 INSTALLATION:

- A. Install baled hay or straw erosion checks in all locations as directed, surrounding base of all deposits of stored excavated material outside of disturbed area, and where directed by the Engineer.
- B. Install checks immediately after site is cleared and before trench excavation. Locate checks, surrounding stored material, approximately 6 feet (1.8 m) from material.
- C. Hold bales in place with two 2 inches by 2 inches by 3 feet (50 mm by 50 mm by 0.9 m) stakes so that each bale is butted tightly against adjoining bale thereby precluding shortcircuiting of erosion check.
- D. Stake compost filter socks with 2 inches by 2 inches by 3 feet wood stakes at 10 foot spacing maximum. Provide additional stakes as conditions warrant and as directed by the Engineer.
- E. Construct earth berms or diversions to intercept and divert runoff water from critical areas.
- F. Discharge silt-laden water from excavations onto filter fabric mat and/or baled hay or straw sediment traps to ensure that only sediment-free water is returned to watercourses.
- G. Do not place excavated soil material adjacent to water-course in manner that will cause it to wash away by high water or runoff.
- H. Prevent damage to vegetation by excessive watering or silt accumulation in the discharge area.
- I. Do not dump spoiled material into any streams, wetlands, surface waters, or unspecified locations.
- J. Prevent indiscriminate, arbitrary, or capricious operation of equipment in streams, wetlands or surface waters.

- K. Do not pump silt-laden water from trenches or excavations into surface waters, streams, wetlands, or natural or man-made channels leading thereto.
 - L. Prevent damage to vegetation adjacent to or outside of construction area limits.
 - M. Do not dispose of trees, brush, debris, paints, chemicals, asphalt products, concrete curing compounds, fuels, lubricants, insecticides, washwater from concrete trucks or hydroseeders, or any other pollutant in streams, wet-lands, surface waters, or natural or man-made channels leading thereto, or unspecified locations.
 - N. Do not alter flow line of any stream unless indicated or specified.
- 3.03 REMOVAL OF TEMPORARY WORKS:
- A. After temporary works have served their purpose, the Contractor shall remove them or level and grade them to the extent required to present a sightly appearance and to prevent any obstruction of the flow of water or any other interference with the operation of or access to the permanent works.

END OF SECTION

SECTION 02100
SITE PREPARATION

PART 1 - GENERAL

1.01 DESCRIPTION:

- A. Provide labor, material, tools and equipment to prepare site as indicated and specified.
- B. All work shall comply with the NHDES Wetlands Permit & Shoreland Permit, attached

PART 2 - PRODUCTS

2.01 WOOD CHIPS:

- A. Chip from cleared wood.
- B. Provide additional wood chips as directed by Engineer.
- C. DO NOT PERMIT use of elm wood and elm bark as wood chips.

PART 3 - EXECUTION

3.01 EXISTING TREES AND VEGETATION:

- A. Do not cut or injure trees and vegetation outside easement line and outside areas to be cleared as indicated, without Engineer's permission.
- B. Accept responsibility for damages outside these lines.
- C. Remove trees within permanent and temporary working space as designated by Engineer.
- D. For trees to be removed, Contractor to mark the trees prior to removal. Once marked trees are reviewed by the Engineer, removal can occur.

3.02 EXISTING STRUCTURES AND PROPERTY:

- A. Remove existing signs, posts, catchbasin frames and grates, manhole frames and covers, and granite curbing within construction path unless directed otherwise.
- B. Store at a site designated by Owner, items in reusable condition as determined by Engineer.
- C. For work in loamed areas, strip loam to one side to avoid mixing with excavation materials. Do not take loam from site. Loam in areas of existing known invasive species populations shall not be reused. Loam from these areas shall be buried under a minimum of six inches of invasive-free topsoil.

3.03 CLEARING:

- A. Cut or remove trees, brush, and other vegetable matter such as snags, bark and refuse, from areas to be cleared. Clear ground to width of permanent easement unless otherwise directed.
- B. Cut trees, stumps, and stubs to be cleared, except where clearing done by machinery, as close to ground surface as practicable, but no more than 6 in. above ground surface for small trees and 12 in. for larger trees.
- C. Bury elm bark, at least 1 ft. deep, or burn in incinerators off site with antipollution controls and fire prevention controls, to prevent spread of Dutch Elm disease as required by applicable laws.

3.04 CLEARING IN WOODED AREAS:

- A. Chip and stockpile wood cleared at location directed by Owner. Do NOT PERMIT use of elm wood and elm bark as wood chips.
- B. Chip and spread wood cleared at locations and cover as indicated. Do NOT PERMIT use of elm wood and elm bark as wood chips.

- C. Supply and spread wood chips.

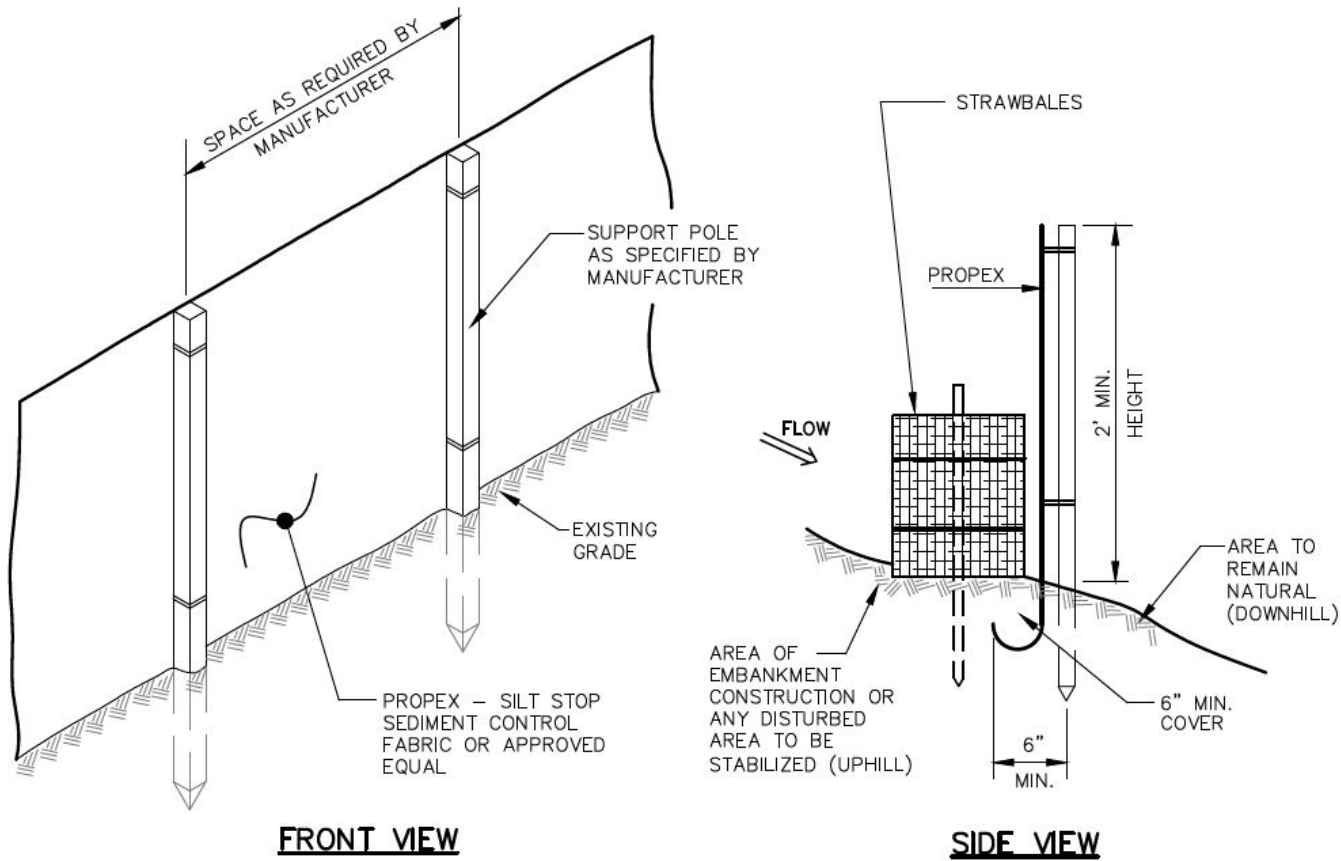
3.05 GRUBBING, STRIPPING, DISPOSAL:

- A. Remove stumps and roots larger than 3 in. in diameter to a depth of 12 in., and roots larger than 1/2 in. in diameter to a depth of 6 in. Measure depths to cut from existing ground surface or proposed finished grade, whichever is lower.
- B. Strip stumps, roots, foreign matter, topsoil, loam and unsuitable earth from ground surface. Utilize topsoil and loam insofar as possible for finished surfacing. Do not take loam from site.
- C. Promptly dispose off site material from clearing and grubbing not reused or stockpiled. In doing so, observe all applicable laws, ordinances, rules and regulations. Do not consider work completed until final cleaning, unless otherwise directed.

END OF SECTION

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Erosion Control Details (Not to Scale)

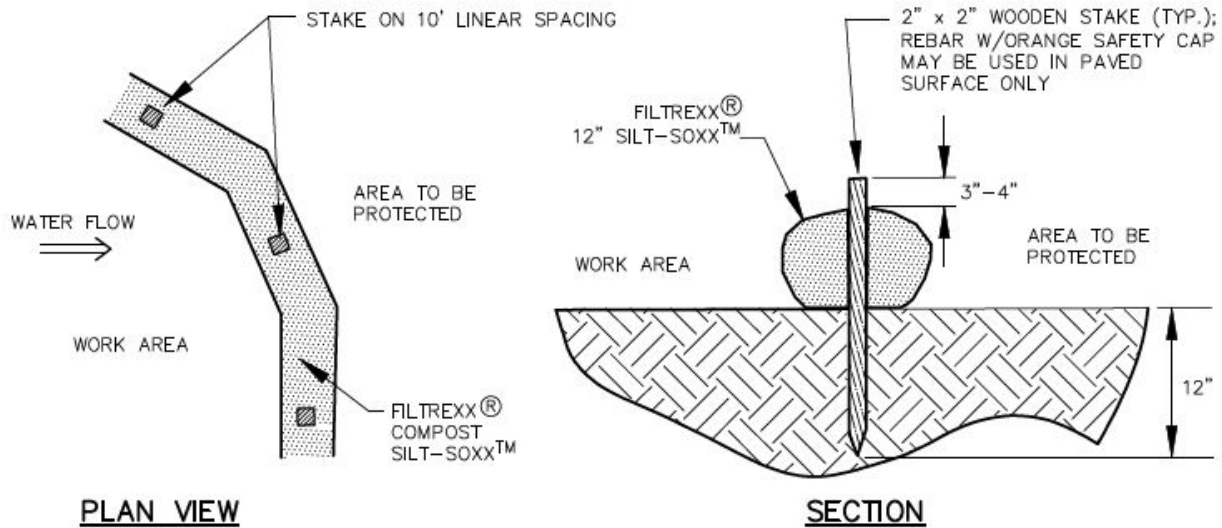


FRONT VIEW

SIDE VIEW

SILT FENCE/STRAWBALE DETAIL

NOT TO SCALE



PLAN VIEW

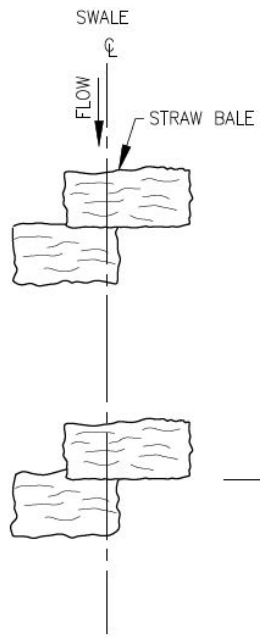
SECTION

NOTES:

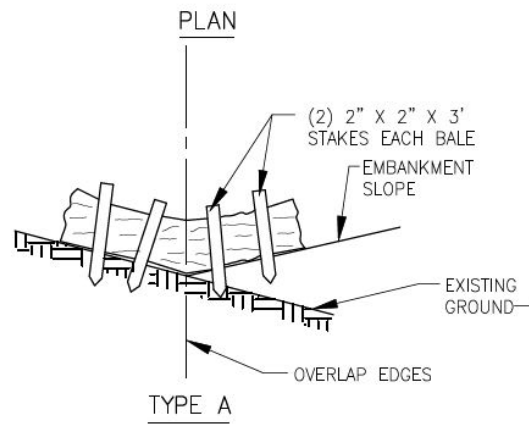
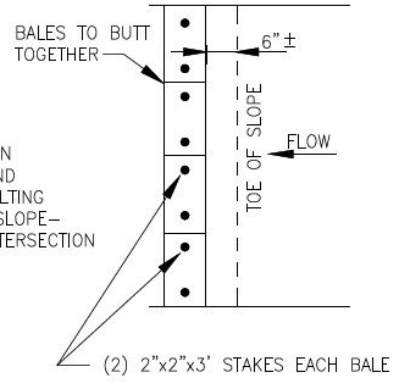
1. SILT-SOXX MAY BE USED IN PLACE OF SILT FENCE OR OTHER SEDIMENT BARRIERS FOR AREAS OF REVETMENT CONSTRUCTION.
2. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
3. SILT-SOXX COMPOST/SOIL/ROCK/SEED FILL MATERIAL SHALL BE ADJUSTED AS NECESSARY TO MEET THE REQUIREMENTS OF THE SPECIFIC APPLICATION.
4. ALL SEDIMENT TRAPPED BY SILT-SOXX SHALL BE DISPOSED OF PROPERLY.

SEDIMENT FILTER LOG STAKING DETAIL

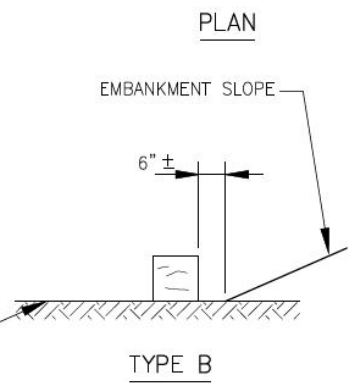
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VARIES DEPENDING ON
HEIGHT OF SLOPE AND
STEEPNESS OF RESULTING
GRADE OF, TOE OF SLOPE—
EXISTING GROUND INTERSECTION



NOTE:
TO BE USED IN LOCATION WHERE
THE EXISTING GROUND SLOPES IN
TOWARD THE TOE OF THE EMBANKMENT.



NOTE:
TO BE USED WHERE EXISTING
GROUND SLOPES AWAY FROM THE
TOE OF THE EMBANKMENT.

STRAW BALE EROSION CONTROL