REQUEST FOR CONSTRUCTION BIDS
July 11, 2014

Silver Street Rain Garden
Hinesburg, Vermont

1.0 Project Background

The Lewis Creek Association (LCA) has received a grant to construct a bio-retention / rain garden treatment measure just downstream of the three existing drainage outlets. The project site is located at the corner of Silver Street and Vermont Route 116 adjacent to the Hinesburg Elementary School and the Masonic Lodge building. Construction plans accompany this Request for Construction Bids (Attachment A).

The Town of Hinesburg will be excavating and rough grading the rain garden cells and the landscaping contractor will be responsible for final grading and spreading amended topsoil / topsoil, installing the outlet controls between the cells, and installing all of the plantings. Coordination between the Town and contractor will be required. The Lewis Creek Association, in partnership with the Town of Hinesburg, is currently seeking competitive bids to finish the rain garden cells, outlet controls, and install and maintain plantings for one year. A Bid Sheet is attached that is to be used to respond to this request (Attachment B).

2.0 General Scope of Work

This project includes installation of an outlet control riser, installation of stone overflow weirs, construction of a stone filter berm and stone splash pads, stabilizing the existing drainage swale along Silver Street, installation of stone check dams, spreading amended topsoil / topsoil, and installation of trees, shrubs, herbaceous plants, and restoring the project site with seed mix (Attachment A). Construction is scheduled to begin in late August 2014. Work tasks will generally involve placement and maintenance of erosion and sediment control measures; establishing staging areas; installation of the outlet controls and stone protection measures; and plantings and seeding per the landscaping plans. Trees, shrubs, perennials, and seed will need to be supplied by the contractor per the planting plans (Attachment A). Additionally, when the trees, shrubs, and perennials are planted will be determined by the landscaping contractor and approved by the LCA since the contractor will be responsible for the plantings for one year.

All disturbed areas shall be restored or returned to pre-construction. Disturbance area shall be minimized during construction. Existing topsoil will be stripped from the project site and stockpiled for use in site recovery and landscaping. Additionally, some of the existing shrubs will be transplanted and re-used per the landscaping plan. The existing shrubbery and hedgerows shall be maintained to the extent possible as indicated on the plans.

The parcel where the construction is to take place is owned by the Town of Hinesburg. Surrounding landowners will be notified about the proposed project prior to construction. The

LCA and Town of Hinesburg will lead landowner outreach and the Contractor will work with the Project Engineer to accommodate landowner requests. The LCA will establish contact with landowners prior to the beginning of construction.

3.0 Project Supervision

Construction oversight of the project will be conducted by the LCA and the Project Engineer. The Contractor will be obligated to comply with directives from the Project Engineer and the LCA to ensure that the Contractor meets all contract provisions, design specifications, and permit requirements. The Contractor will stake out staging areas and rain garden components to be approved by the Project Engineer before starting construction.

4.0 Construction Access

Construction access will be made from the elementary school parking lot located to the south of the project site. The LCA will verify permission before construction. The final alignment and location of the construction access point will be confirmed during the pre-construction site meeting.

Both Silver Street and Vermont Route 116 are primary transportation routes in Hinesburg, so adequate warning of construction activities and safety signs are required. Road closures are not anticipated. If conditions warrant, a flag person shall be posted to allow safe passage through the construction zone.

Any material imported to the project site to temporarily assist with constructing shall be removed upon completion of the project at no additional expense to the LCA or the Town of Hinesburg. Should the import of material be required temporarily during construction, a description of why it is required and how it will be used will be required for prior written approval. Any areas utilized by the Contractor for temporary purposes during construction will be restored to pre-project conditions upon completion of the project.

5.0 Sequence of Work

The following proposed sequence of work is provided for general information only. See construction plans and technical specifications for additional notes (Attachment A). The selected Contractor may suggest adjustments to this sequence or a different sequence of events to the Project Engineer. The final sequence of work will ultimately be determined by the Contractor and submitted to the Project Engineer for review and approval prior to construction.

1. Obtain any necessary work permits and submit schedules, plans, and product information, including the erosion and sediment control plan, construction sequence, and emergency operation plan to the Project Engineer for review and approval seven (7) days prior to initiation of construction. Post construction warning signs.
2. Contractor shall participate in a pre-construction site meeting with the Project Engineer and others to review construction details, permit requirements, contract provisions and specifications, and the project limits.
3. Install soil erosion and sediment control measures and safety fencing as needed.

4. Locate staging and storage areas with approval from Project Engineer and Town.
5. At all sites, soil erosion and sediment control facilities shall be installed and maintained consistent with the requirements of the State of Vermont (See Soil Erosion and Sediment Control Notes in Section 7.0 of this document).
6. Confirm location of proposed rain garden treatment cells, outlet riser structure, overflow weirs, and other features to verify understanding of the proposed rain garden project.
7. Construct the stone outlet weir for treatment cell 2 per the provided detail.
8. Install the stone filter berm and stone splash pads at the outlets of the existing storm drainage outfall in treatment cell 1.
9. Install the riser outlet in treatment cell 1 and stone splash pad at the outlet of the riser in treatment cell 2.
10. Complete construction of fill berm between treatment cell 1 and treatment cell 2. Direct flow from existing drainage swale to the riser outlet.
11. Construct the stone bypass weir.
12. Install stone check dams in the reshaped swale.
13. Install the erosion control matting within the reshaped drainage swale and place seed mix according to the landscape plan and planting notes.
14. Install all proposed plantings, trees, shrubs, and seed mix according to the landscape plan and planting notes.
15. Restore any remaining disturbed areas. Remove all sediment and erosion control measure once vegetation has fully established.
16. Immediately following completion of construction, the Contractor shall participate in a final inspection with the LCA and Project Engineer for the purpose of determining that the project has been completed according to the construction drawings and the terms and conditions of the contract.
17. Water and weed plantings for one year. Replace any plants that fail to grow as needed. A final site walk will be scheduled one year after all the plantings have been installed for final review.

6.0 Technical Specifications

Specifications are provided on the plans (Attachment A). A project specification booklet does not exist for this job. Any design changes, sketch or shop drawings, change orders, etc shall be brought to the attention of the LCA and Project Engineer as soon as possible, and will require written approval from the Project Engineer prior to continuing with that particular aspect of construction. All materials and construction shall conform to the State of Vermont, Agency of Transportation Standard Specifications for Construction, dated 2006, and its latest revisions, unless specified otherwise. If any conditions arise during construction that preclude compliance with the details shown on the plans, the work in the affected areas shall cease and the Project Engineer shall be notified immediately.

7.0 Sediment and Erosion Control

The nature of the construction required for creating the rain garden limit the potential for erosion and sedimentation during construction. The Contractor must submit an Erosion and Sediment Control Plan prior to construction. Construction sequencing will also plan an important role in sediment and erosion control planning. Recommended sediment and erosion control notes, water

control, and details are contained in the construction plans (Attachment A). No dewatering activities are anticipated for this project and construction shall take place during low flow periods. Should heavy rain or a flood be predicted, the Contractor must immediately stop work and stabilize the construction site for possible flooding. The sediment and erosion control should prevent the migration of sediment and turbid water from the site to the nearby LaPlatte River. If turbid runoff is observed in the river, work shall cease and erosion and sediment controls will be refined or expanded as needed.

8.0 General Construction Notes

Construction notes are contained in the construction plans (Attachment A).

9.0 Construction Schedule

Construction is anticipated for two phases. Phase 1 is the installation of stone and the outlet works to complete the rain garden cells. This work will tentatively take place between August 15, 2014 and September 30, 2014. Phase 2 of the construction would be the plantings and would take place in at the discretion of the landscaping contractor. If all or some of the plantings are scheduled for Spring 2015, the project site shall be stabilized with an annual winter rye or approved equal. Plants shall be maintained by the Contractor for one year starting after they have been planted.

A Notice to Proceed will be issued by the Project Engineer prior to the start of work. Once begun, construction is expected continuously until completion, barring extreme weather that would halt work. Site recovery progress will be inspected with the Contractor approximately one month following construction to ensure that the site remains stable and determine if additional site recovery work is needed.

10.0 Regulatory Requirements

Given the small size of this project federal, state, and local permits are not needed. The Contractor will generally follow low risk construction site practices to control erosion and sediment.

11.0 Bid Submittal Information & Format

Bids shall be presented on the enclosed bid sheet (Attachment B), along with two project references for past work of a similar nature. A pre-bid site showing is planned for *July 23, 2014 at 9:00AM* at the Silver Street Rain Garden project site. Bid proposals must be received no later than **4:00PM on Friday August 1, 2014** by:

Ms. Marty Illick, Executive Director
Lewis Creek Association
442 Lewis Creek Road
Charlotte, VT 05445

Notice of contract award is anticipated by August 15, 2014. The LCA reserve the right to reject any or all bids on its own motion. For questions regarding the Silver Street Rain Garden or to obtain electronic copies of the construction plans, contact Milone & MacBroom, Inc:

Brian M. Cote, P.E.
802-882-8335
brianc@miloneandmacbroom.com

12.0 Attachments

- Attachment A: Construction Plans
- Attachment B: Bid Sheet