



REQUEST FOR BIDS
June 29, 2016
Colchester High School, Colchester VT
Stormwater Retrofit Project
For
The Winooski Natural Resources Conservation District

1.0 Project Background

Colchester High School is located in Colchester, Vermont, in the designated area of Inner Malletts Bay. It is 1,500 feet from Smith Hollow Brook, an impaired stream with a Total Maximum Daily Load (TMDL) for bacteria (VT DEC: 05-09: Direct Smaller Drainages to Inner Malletts Bay), and drains into Malletts Bay. Developed land in the Lake Champlain basin contributes more phosphorus runoff per acre than agricultural or forest land, so that Colchester's continued growth leads to a high potential for further growth in phosphorus output." Inner Malletts Bay has an area of 38.7 acres and outside the stormwater permitting area of Colchester (or MS4). Although not unique, Colchester High School is approximately 248,965 square feet (or 5.74 acres) of impervious surfaces, representing an ideal site for stormwater infiltration and demonstration in the Town of Colchester. As part of the proposed new phosphorus TMDL for Lake Champlain, developments of larger than three acres may require stormwater permitting. As a site larger than this threshold, Colchester High School contributes more than its share of stormwater to the Lake and the proposed project will begin to address issues on site by collaborating with students on the design and development of green stormwater infrastructure (GSI). By installing GSI on the school's campus, not only will there be an impact on the amount of stormwater and hence, pollutants and sediments, that reach the stream, there will also be an opportunity for a model of infiltration to exist in Colchester.

Colchester High School contributes greatly to stormwater volume and flow based on its large impervious surfaces. With its traditional footprint of building-road-parking lot, it is a site with the potential to influence replicability by individuals, the town, and larger landowners within Colchester and beyond. Applying GSI to the Colchester High School campus can mitigate stormwater on site by attempting to restore and maintain some of the natural hydrology of the site. In addition, installing GSI will "takes action to accelerate the reduction of sediment and nutrient pollution...from uncontrolled runoff into our streams, rivers, ponds, wetlands, and lakes.

Stormwater planning and engineering designs have been completed for the stormwater retrofit project at Colchester High School. Proposed work will include the final implementation of the chosen practices.



2.0 General Scope of Work

Work tasks will generally involve work to be conducted on 2 of the 3 final design plans. In Basin #2 (see attached maps and engineering notes) work will consist of: excavating a sediment settling basin with dimensions of 15 feet by 25 feet. Excavate a 1 foot depression with a footprint of approximately 4,000 square feet. This area in partnership with students and volunteers will then be planted with native wet meadow seeds and plants. Two catch basin gates will need to be reset to be a minimum of 1 inch above the highest asphalt grade. The existing manhole structure will need to be cored to connect the proposed underdrain.

In Basin #1 (see attached maps and engineering notes) work will consist of: Installing a water level control structure to raise the elevation of the outlet pipe to increase storage and infiltration. The outlet control will be situated inside a manhole structure with a screened opening at the existing ground surface elevation. Fit the inlet of the 12” culvert with an elbow and vertical standpipe. Drill a 2” low flow orifice into the elbow to drain. Install stone lined settling zones at each of the 3 culvert outlets and working in partnership with the students, volunteers and staff, plant native shrubs and plants.

3.0 Owner’s Project Representation

Oversight of the project will be conducted by the Project Coordination Team through the Winooski Natural Resources Conservation District staff. The Contractor will be obligated to comply with directives from the Project Coordination Team to ensure that the all contract provisions, design specifications, and permit requirements are met.

4.0 Construction Access

Construction access is available on via school parking lot and road.

5.0 Sequence of Work

The final sequence of work will ultimately be determined by the Contractor and submitted to the Project Coordination Team for review and approval prior to construction. As there is student involvement, coordination with school staff and schedules needs to be taken into consideration.

6.0 Specifications

Technical specifications are included in the details and notes on the construction plans (Attachment A). Contractor will be obligated to adhere to the Terms and Conditions in the contract to be used for this project.

7.0 Sediment and Erosion Control

Work will need to be completed in the “dry” and coordinated with school staff.

8.0 Construction Notes

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



9.0 Methods

Construction methods will follow the construction plans (Attachment A) and Design Notes (Attachment B), describing the retrofit of each site.

10.0 Construction Schedule

Construction is planned to begin in mid-August 2016. All project elements are to be completed by: September 30th, 2016.

11.0 Regulatory Requirements

This project does not fall under VTDEC’s jurisdiction and there does not appear to be any other regulatory jurisdiction.

12.0 Compensation

The construction contract will be between the selected Contractor and the Winooski Natural Resource Conservation District. Payment for the project will be made in one installment after project completion and a final site inspection with the Project Coordination Team. Payment will be based on items complete and accepted lump sum bid prices. Prior approval is needed from the Project Coordination Team for all change orders. The invoice will be submitted to the Winooski Natural Resources Conservation District for review and payment.

13.0 Bid Submittal Information & Format

Bids and qualifications shall be presented on organizations official letterhead and on the attached bid document and shall include project references for past work of a similar nature. Bid proposals must be received by July 15, 2016 electronically by WNRCD District Manager: Corrina Parnapy at: corrina@winooskinrcd.org or info@winooskinrcd.org

Notice of contract award will be by July 22, 2016. The Winooski Natural Resource Conservation District reserves the right to reject any or all bids on its own motion.

Electronic copies of the construction plans are attached to this bid request. For questions contact Corrina Parnapy at: corrina@winooskinrcd.org

14.0 Attachments

- Attachment A: Construction Plans
- Attachment B: Design Notes
- Attachment C: Bid Sheet



APPENDIX C: BID SHEET

Colchester High School Stormwater Retrofit, Colchester, Vermont

Company Name: _____

Contact Name: _____

Address: _____

Email: _____

Phone: _____

Reference 1: (Name & Phone) _____

Reference 2: (Name & Phone) _____

Depending on funding available Basin completion may be conducted at different times. Please supply bids accordingly.

Bid Item Basin #1	Task	Item Cost
Mobilization/ Demobilization		
Construction		
Landscaping		
Other		
Total Bid		
Add Alternative		Unit cost

Bid Item Basin #2	Task	Item Cost
Mobilization/ Demobilization		
Construction		
Landscaping		
Other		
Total Bid		
Add Alternative		Unit cost