

SECTION 01010

SUMMARY OF WORK

PART 1 - GENERAL

1.01 PURPOSE

This project includes the installation of porous pavers, stormwater drainage structures, raingardens, and associated drainage improvements at the Mast Landing Boat Launch in Wolfeboro, NH. All work locations are in the Town of Wolfeboro, NH as shown in Drawings C-1 through C-4, D-1 through D-8 and EC-1.

PART 2 - PRODUCTS

Not Used

PART 3 – EXECUTION

- A. The Scope of work under this contract shall be the milling and reclaiming of existing pavement, excavation and disposal of excess soil, regrading or Silver Street railroad crossing, installation of pavement (overlay and full depth), construction of porous pavement/paver subgrade, installation of porous pavement/pavers, testing and inspection, construction of concrete stairway, construction of precast concrete drainage structures and associated drainage piping, construction of riprap drainage swales and spillways, construction of stormwater BMPs, stabilization and vegetation of exposed surfaces, as described herein and as outlined in this Scope of Work and as shown on the attached drawings (C-1 through C-4, D-1 through D-8 and EC-1).
- B. The Scope of work includes but is not limited to the following:
 - 1. Perform site investigations or test pits to confirm locations and elevations of local drainage piping and underground utilities.
 - 2. Remove and store signs and landscaping features as needed. Store materials on-site.
 - 3. Install erosion controls and work associated with maintenance of these controls during Construction.
 - 4. Perform any required utility adjustments to complete the work as shown on the Drawings.
 - 5. Provide work associated with clearing and grubbing the site in preparation for construction.
 - 6. Reclamation and / or demolition of existing parking lot pavement to limits as shown on the Construction Drawings for porous pavement or full depth areas.
 - 7. Milling of upper (northern) parking lot pavement and Silver Street to limits as shown on the Drawings.
 - 8. Perform pavement cuts and pavement milling as needed to meet adjacent existing pavement grades on Silver Street and along Centre Street or for construction of adjacent BMPs.

9. Earthwork to regrade existing steep section of Silver Street south of the Cotton Valley Rail Trail leading into the lower (southern) parking lot to improve roadway grades and provide ADA access to trail.
10. Earthwork to prepare the porous pavement subgrade.
11. Earthwork to complete ICB retaining wall.
12. Earthwork to construct the porous paver (PaveDrain) subgrade, riprap drainage swales, stone infiltration areas, the FocalPoint BMP, the GeoPave parking area, raingarden and vegetated buffers.
13. Stockpile excess excavated material and loam for re-use or storage. Store excess material on-site. (Excess material not re-used on-site shall be transported off-site by the Contractor).
14. Install ICB retaining wall system including subgrade materials, footing, subdrains and backfill materials.
15. Sample reclaim material and perform gradation tests to confirm required amendments to meet reclaim gradation specification for parking lot subgrade material.
16. Amend reclaim material to meet reclaim gradation specification.
17. Fine grade lower (southern) parking lot subbase for installation of full depth pavement and porous pavement subgrade materials.
18. Install porous pavement subgrade materials as shown on Construction Drawings.
19. Fine grade porous paver subbase for installation of porous paver (PaveDrain) subgrade materials to grades as shown on Construction Drawings.
20. Grade grassed areas around parking lot for installation of riprap drainage swales and rain garden spillway.
21. Install precast concrete yard drains in the lower (southern) parking lot in line with existing 12-inch RCP piping and new 6-inch solid PVC pipe complete as shown on the Drawings including removal and disposal of existing drainage infrastructure that interferes with installation.
22. Install subsurface drainage tiles under porous paver (PaveDrain) and FocalPoint BMP locations as shown on Drawings.
23. Install and backfill 6-inch diameter perforated and solid PVC pipe and install overflow and cleanout components including riser sections, grates, covers, observation ports and pipe boot connections to subsurface drainage tiles for the stormwater BMPs.
24. Install two parallel 156 linear foot, 6-inch diameter perforated PVC subdrain pipe with cleanouts.
25. Install infiltration subgrade materials (stone and/or sand) under the rain gardens, grassed infiltration areas (picnic area), FocalPoint BMP, GeoPave parking area and other stormwater treatment areas as shown on Construction Drawings.
26. Install vegetative support materials and surface treatments within the rain gardens, infiltration areas, Focal Point BMP, GeoPave parking area and other stormwater treatment areas as shown on Construction Drawings.
27. Install two new four-foot diameter precast concrete drainage catch basins in the upper (northern) parking area.
28. Install 72 linear feet of 8-inch RCP to connect two new drainage catch basins in upper (northern) parking lot to raingarden.

29. Backfill drainage structures and piping. Install pavement subgrade materials.
 30. Install curbing around the upper (northern) parking lot as shown on the Construction Drawings (remove and reset adjacent curbing to make proper transitions with 2 proposed locations of new granite curb).
 31. Install proposed sewer (6-inch PVC pressure pipe) and water (2-inch copper) service lines and backfill as shown on Drawings.
 32. Complete grassed picnic area with infiltration stone subgrade in the lower (southern) parking lot equipped with a tree and a vegetated swale as shown on the Construction Drawings.
 33. Install pavement on overlay and full depth sections of parking lot as shown on the Drawings.
 34. Install porous pavement on sections of parking lot as shown on the Drawings.
 35. Install vegetated support materials on all exposed grass surfaces and adjacent impacted areas.
 36. Install slope stabilization system adjacent to riprap spillway and concrete stairs.
 37. Install or reset park features (fencing, kiosk, signs, benches, etc.) as directed by the Owner or shown on Drawings.
 38. Install landscape plants and surface treatments in stormwater BMPs, vegetated buffers, and landscaped areas as shown on Drawings.
 39. Install seed mixes and surface treatments in stormwater BMPs, vegetated buffers, landscaped areas and all areas impacted by construction that shall be covered with grass as shown on Drawings.
 40. Complete line striping and markings for new parking lot layout.
 41. Install or reset signs as directed by the Owner or shown on Drawings.
 42. Miscellaneous associated work as indicated on the drawings and these specifications.
- C. The Contractor is responsible for identifying and locating all underground and above ground utilities and service lines prior to any below or above ground site alterations. The Contractor is responsible for notifying concerned utilities, at least 72 hours prior to excavation in the proximity of telephone, gas and electric utilities, by calling Dig Safe at 1-888-344-7233 and all other utilities by calling the appropriate agency.
- D. Contractor shall notify the Town of Wolfeboro Department of Public Works 72 hours prior to any work on streets with water mains and/or sewer for mark-out of the existing system.
- E. The Contractor is responsible for performing test pits, sampling subbase materials and supplying Engineer with test reports for gradation of subbase materials prior to Construction. Test pits and subbase sampling shall be done at locations and to elevations as shown on the Construction Drawings.
- F. The Contractor is responsible for all Earthwork including clearing and grubbing, excavation, rough grading, and backfilling as shown on the Drawings and specified herein. Earthwork activities shall only occur within right of ways maintained by the Town of Wolfeboro and property owned by the Town of Wolfeboro.

- G. The Contractor is responsible for furnishing and installing all subgrade materials for the full depth reclaimed pavement areas; amendment materials for reclaimed materials; rain garden infiltration stone; bedding and backfill for all drainage piping and structures; and all other earthwork activities associated with these installations.
- H. The Contractor shall be responsible for furnishing and installing all erosion control fabrics and plantings; furnishing and installing loam and seed for stabilization slopes and vegetated swales and rain gardens; furnishing and installing riprap stone for armored swales; furnishing precast structures; furnishing drainage piping and fittings; and restoration of all other existing adjacent landscaping features impacted by Construction.
- I. The Contractor is responsible for installation of precast structures and drainage piping. Connection of all drainage structures and piping shall be done in accordance with the manufacturer's specifications, and the specifications and Drawings contained herein.
- J. The Contractor is responsible for the off-site disposal of all material generated during clearing and grubbing activities, excavations and other construction activities. All materials shall be disposed of at an approved site.
- K. Any ledge encountered during excavation that will interfere with the placement of specified devices or obtaining finished grades as specified on the Drawings will be brought to the attention of the Engineer. Any rock excavation will be performed in accordance with Section 02200 EARTHWORK.
- L. The Contractor shall provide and maintain erosion control measures as shown on the Drawings and as specified herein at all locations prior to and during all construction activities.
- M. The Contractor is responsible for dewatering the project areas during construction activities and shall furnish all necessary equipment including pumps, piping, and sedimentation controls to conduct dewatering activities.
- N. The Contractor is responsible for returning the construction area and surrounding area to its pre-construction condition as directed by the Engineer.
- O. The Contractor shall provide as-built drawings of each construction site.
- P. The Contractor is to perform the work of this contract in accordance with applicable State and Federal laws and regulations. In the event the Owner is required to pay any fines, administrative penalties or damages to anyone, including governmental agencies, due to the Contractor's failure to perform in accordance with this contract and/or regulations, the Contractor will indemnify and hold harmless the Owner and reimburse Owner for all such payments plus reasonable legal fees and expenses incurred.

END OF SECTION