Porter Creek Sanitary Sewer

Scope Summary

Identify Project Limits

Identify the area of the impacted sanitary sewer, using Bay Village trench standards as a guideline to locate the affected sewer limits. Locate and identify the FEMA Regulatory Floodplain in the project vicinity as shown on the attached sketch. No materials shall be placed in said Floodway without further engineering analyses.

Obtain Floodplain Permit from Bay Village for proposed work which is contemplated within the Floodplain, but outside of the Floodway.

Prepare Project Site

Remove loose debris and organic material surrounding the existing sanitary sewer to allow for “benched” cohesive embankment/backfill construction. Provide “key-way” into existing creek bed approximately 1-2 feet below and outside of normal trench details for the existing sanitary sewer to accommodate cohesive soil backfill and proposed rip-rap erosion protection.

Install Compacted Cohesive Embankment/Backfill and Rip Rap

Provide cohesive backfill around the existing sanitary sewer at 2:1 back slope to meet existing ground and elevations on land side of sewer in a manner that will allow proper overland drainage. Material should be properly compacted in appropriate lifts in a “benching” fashion to minimize slip plane conditions. It is anticipated that the existing sanitary sewer will be encased within a 3-foot minimum core surrounding the pipe. Rip-Rap shall be placed on the creek side face of the embankment within the aforementioned “Keyway” as directed by the engineer to arrest erosion.

Restoration

All disturbed areas shall be seeded in accordance with City standards.
Porter Creek Sanitary Protection Project

Sanitary line as it crosses Porter Creek: encased in concrete

The project area: 82’ of 21” sanitary line
CITY OF BAY VILLAGE  
Porter Creek Sanitary Sewer  
6/2/17 REVISED  

<table>
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<tr>
<th>DESCRIPTION</th>
<th>QTY</th>
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<td>MOB/DEMOM</td>
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<td>LABOR/EQUIPMENT</td>
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<td>TYPE A RIP RAP (ONTARIO STONE PICKED UP)</td>
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**TOTAL**                          |     |      | **$ 43,600.00** |
July 11, 2017

City Of Bay Village

Re: Porter Creek

Mobilization of equipment & materials

1. Excavate trench into creek bottom to install toe stone
2. Add gravel base under pipe
3. Place clay over pipe per spec
4. Cover over clay with filter cloth
5. Add 601A stone layer over clay
6. Final clean-up, grade site
7. Seed site with straw cover

Equipment, material & Labor to complete above quote per spec  Total $ 44,200.00

Note: Grade site upon completion, seed site and straw cover

Not included in this quote are permits or fees assessed by government agencies in association with permits; final grading; seeding or landscaping; tree removal or replacement; structures such as steps or retaining walls except as noted. All care will be taken to prevent damage to these items. All material is guaranteed to be as specified. Work to be performed in accordance with the drawings and specifications submitted for the above work items and completed in a substantial workman like manner.

Any alteration or deviation from above specifications involving extra cost will be executed upon written change order, and will become an extra charge over and above the quoted price. Armor stone structures are designed and built to protect property from erosion, and these structures may have large voids to breakdown the wave energy. We strongly advise against anyone climbing on these structures.

Shoreline Contractors, Inc maintains a current BWC certificate, public liability insurance and local contractors registration & license at all times.

Respectfully Submitted by

Shoreline Contractors, Inc.

Thomas Murowsky
President

Approved by:  ___________________________  Date________________

The above prices, specifications, and conditions are satisfactory and are accepted. You are authorized to do the work as specified.

NOTE: This proposal may be withdrawn if not accepted after 30 days.