

A1 Hydroseeding

Large Tree Transplanting & Sales

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City of Seguin
Attention: Nate Garza
205 N. River Street
Seguin, TX 78155

PROPOSAL FOR CONCRETE PROTECTION OF SEWER LINES AND UPSTREAM ROCK WALL REPLACEMENT

1. BACKGROUND

a. Within the Walnut Branch Creek Channel at Site #3 resides two unsupported above ground sewer lines each terminating at a different manhole. One of the two Sewer Lines - Sewer Line "A" - is to be buried under less than 3 ft. of compacted material with the material and compaction covered under Rifle Crib work. The other Sewer Line - Sewer Line "B" - is to remain free standing.

b. The City of Seguin does not have a Building Specification for this configuration, so applicable reference is the City of San Antonio Water Supply (SAWS) Specification 858. Per the Detail Sheet, the sewer line is to be encased with Class "B" (2,000 PSI) concrete for 6" beyond the pipe exterior, making the structure 18"x18" for the length of the exposed area from the manhole to a point on the hillside where ground cover exceeds 3 ft. above the sewer line.

c. As Sewer Line "B" is to remain elevated, cradel supports are required at interval to prevent pipe deflection. For the fifteen at interval to prevent pipe deflection. For the fifteen ft. spread, it is recommended we place two 8 inch thick x 18 inches wide pre-cast or cast in place cradles with 5 feet separation.

d. Upstream Rock Wall Replacement is due to existing wall failing structurally. Apparent cause seems to be bedding materials were washed away during spring flooding.

NOTE: Sewer Line location dictates use of a concrete line pump.

2. WORK ELEMETS

a. Sanitary Sewer Line "A". Compact material to 6 in. from bottom of pipe and form up 18"x18" encasement and pour concrete from manhole to where existing Earth cover exceeds 3 ft. Total estimate lenth of encasement is 18 LF.

b. Sanitary Sewer Line "B". Form up 18"x18" encasement and pour concrete from manhole to where existing Earth cover exceeds 3 ft. Total estimate length of encasement is 16 LF. Form and pour two 8" x 18" x 2' cradle supports at 5 ft. intervals equidistant between manhole and Earthen cover.

c. STATEMENT OF WORK: Removal of approx, 64 linear feet of failed existing limestone block wall upstream of our existing construction site and replace with three tiers of new 2 ft. x 2 ft. x 4 ft. limestone block using the design identified on Plans Sheet C501. Top of Finished Limestone wall will be even with (+ or _ 0.5 inches) of existing adjacent structures.

Work includes:

- *Mobilize and Install traffic control signage
- *Dewatering
- *Remove and haul off existing Limestone Block
- *Remove and onsite staging of exist backfill material for reuse
 - *Excavate site to elevation necessary to meet Finish Elevations with an underlying 8 inch base of crushed stone for the length and width of limestone block.
 - *Level excavation and place 8 inches crushed stone for the length and width of limestone block.
- *Drill and Place 1 inch rebar rods anchored with epoxy in limestone blocks.
- *Place limestone blocks as configured in Plans Sheet C501
- *Place 0.5lb unowven filter fabric behind limestone blocks
 - *Place no less than 1ft. of permeable material (rock and aggregate absent fines) behind limestone blocks.
- *Replace previously staged existing rock and slope to prior shape
- *Remove spoils immediately downstream of existing wall to return streambed floor to original elevation
- *Sodding of disturbed area
- *Haul off any excess materials
- *Provide As Built "Redline" Drawings

INCLUSIONS: All materials, equipment, labor, supervision, general insurance and Shop or Red Line Drawings necessary to perform the additional work items identified above.

3. WORK SCHEDULE:

- a. Based on scope of work and timing estimated time of completion is 45 days. We anticipate 30 day but with time of year and weather 45 days is an inclusive number

4. PRICING:

- a. Cost Total is not to exceed - \$158,620.00
- b. Proposal Cost - \$158,620.00