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April 6, 2014

ATTN: Eric Jones

Becker County Soil and Water – Marsha Watland

CC: Eric Jones - Houston Engineering

Subject: Estimate for Hydroseeding / Stabilization of the Becker County Berg Site

The area to be Rip Rapped, seeded, and stabilized is approximately 31' wide by 62' deep (downslope). Area to be Rip Rapped by another contractor is approximately 20' up-slope by 31' wide which will leave us an area of approximately 31' wide by 40' deep to be seeded and stabilized.

Our seeding and stabilization process is a multi-part series of steps. This bid includes the following based on 16 hours of site work.

1. Site preparation – to include brush clean-up / pruning to prepare area to be sprayed with Biotic Earth soil media.
2. Spraying of Biotic Earth and specified seed from water born spray unit (downslope) and land based unit (up-slope). Seed is sprayed with the growth media to provide maximum seed to dirt contact. Growth media and hydroseed mulch is sprayed from two directions to reduce or eliminate voids in coverage created by obstructions in the spray stream. This process utilizes an all natural organic corn starch Tackifier (glue)
3. Waiting period while growth media tackifier sets - usually 2 hours with wind and sun.
4. Spraying of Hydromulch - this process utilizes a combination of powdered newspaper, wood fiber, and Slope Keeper Tackifier which is used on extreme slopes. Again, this is done with up-slope and down-slope spraying.
5. Waiting period of approximately two hours while mulch dries and Tackifier sets up.
6. Coconut mat application.
7. Straw waddle application and final clean-up.

This estimate is based on our best approximation of what we think our working conditions after bank restoration should be. These numbers may ultimately change based on final slope achieved by the other contractor. Note: All operations are video and still photography documented.

Labor and materials - complete: \$7,800.00

Straw waddles and stakes are not included in this estimate as we cannot be sure of the final grade and it's waddle requirements. Each waddle row shall be charged at \$160.00 installed - materials and labor.

Thank you for the opportunity to bid this project. If you have any questions regarding this estimate, please call Lance on his cell at : (701) 238-9298.

Lance Akers

Natures Design