STONE LINED DITCH

HALF PLAN

4'-0" Berm

Slope

① ⑨ Grout

3:1 ... 3:1 ... 2:1

w/2 = 4'

⑨ Grout ... Level ... Level

LONGITUDINAL SECTION AT CENTERLINE

4'-0" Berm

El = 622 ±

B A 2 1

Blend To Toe

8'

③ 1 3 3+ 1

2'-0" Min

2'-0" Min

3 BLOCKS
6 BLOCKS

Plastic 1'-0" Min

⑧ ② 3 BLOCKS

Z = 14'-8" 11 BLOCKS

A ⑨ ⑧

Geotextile (See Notes 4 & 6)

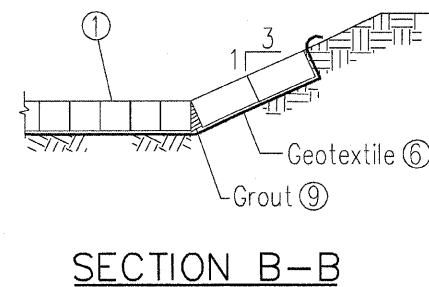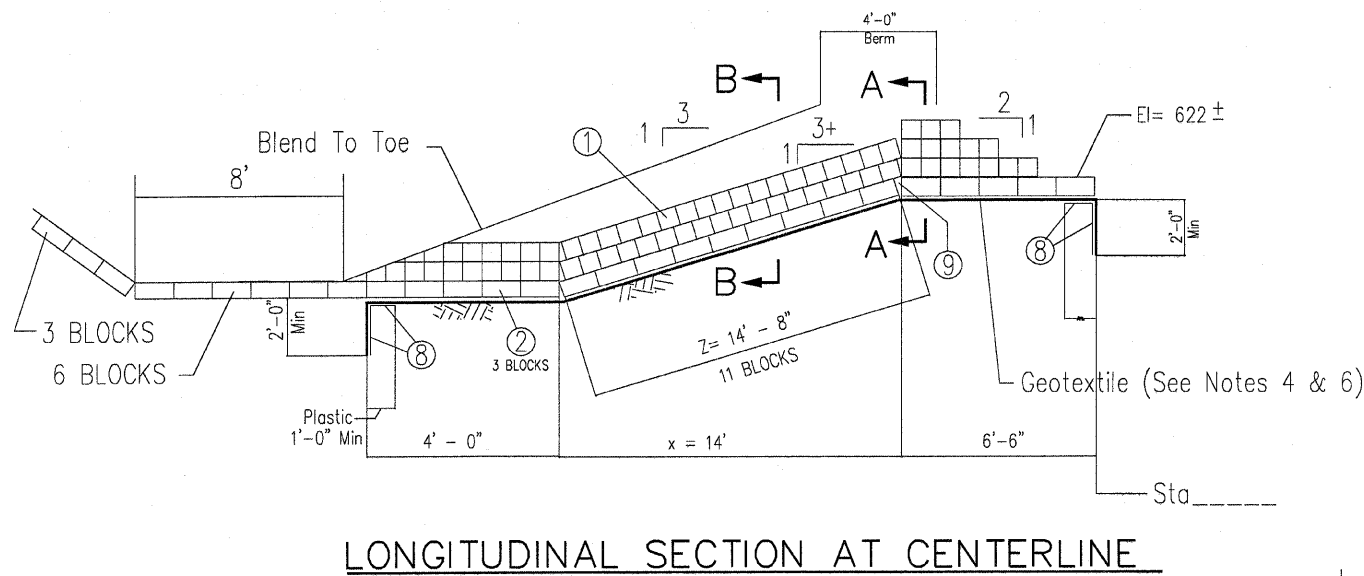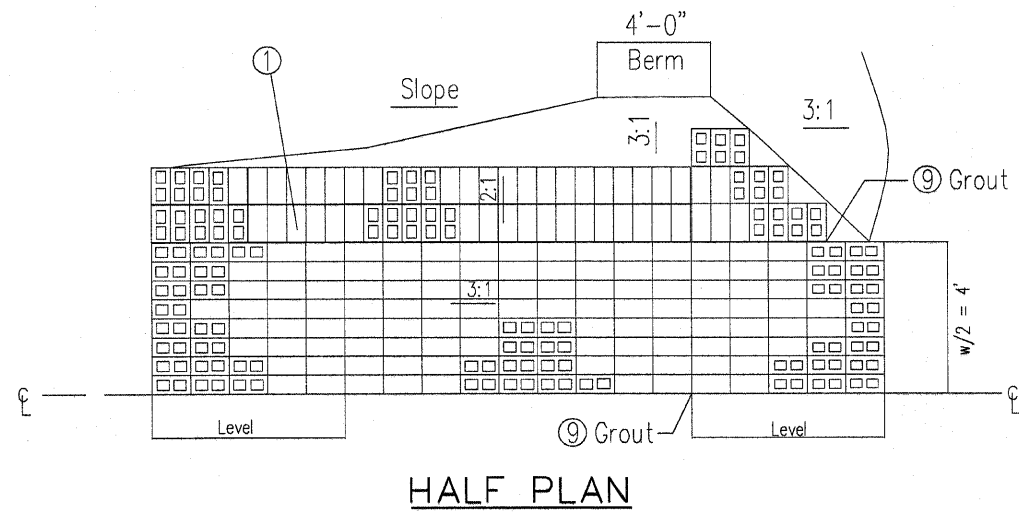4'-0" x = 14' 6'-6"

Sta_____

SECTION B-B

① 1 3

Geotextile ⑥

Grout ⑨

CONSTRUCTION NOTES

1. Concrete blocks shall be 8"x8"x16" long, in good condition, and free of excess mortar.
2. Concrete blocks shall be placed with holes up.
3. Concrete blocks in floor shall be placed with length parallel to direction of flow.
4. Geotextile shall be installed as recommended by manufacturers instructions. All seams shall overlap a minimum of 9 inches.
5. Blocks in sidewalls shall be placed with length perpendicular (90 degrees) to direction of flow.
6. Geotextile (non-woven) minimum criteria:
   Weight of Geotextile (oz/sq.yd.)_____6
   Tensile strength (lb) ASTM D 4632_____180
   Elongation at failure (%) ASTM D 4632_____$\geq$ 50
   Puncture (lb) ASTM D 4833_____80
   Ultraviolet light (% residual tensile strength)
         ASTM D 4355_____min 70
   Apparent opening size (AOS) ASTM D 4751_____max 40 seive
   Permittivity sec^{-1} ASTM D 4491_____min 0.70

7. A maximum 6 inch clean or washed chip or gravel fill (base) may be placed between the natural ground (sub base) and the Geotextile to provide a level base. At least 80% of the materials in the base shall be larger than the holes in the Geotextile. No material shall be placed between the blocks and the Geotextile.
8. Extend cutoff trenches, plastic and filter fabric, U.S. & D.S. to a total width of block placement. Plastic in D.S. cutoff trench is optional.
9. Grout triangular shaped void at each side by 3:1 chute section and across crest of weir. Grout to be 1 part cement and 3 parts sand.
10. Holes in concrete blocks may be filled with soil and seeded to a waterway seeding mixture.
11. Concrete blocks shall not be driven on by any machinery during or after placement.
12. Berm shall be seeded and mulched to the 342 Critical Area Seeding specifications.

⚠ REVISED NEW SHEET 10/28/09