CONSTRUCTION NOTES

1. Concrete blocks must be:
   - 8"x8"x16" nominal size
   - New, in good condition, and free of excess mortar
   - Weight at least 36 pounds each
   - Composed of fresh concrete mixed specifically for block making (no leftover or waste concrete allowed)
   - Each created in a single pour of concrete.
2. Place concrete blocks with holes up.
3. Place concrete blocks in floor with length parallel to direction of flow.
4. Place blocks in side slopes with length perpendicular (90 degrees) to direction of flow.
5. Overlap any geotextile splice a minimum of 18 inches with upstream or up slope geotextile overlapping the down downslope geotextile.
6. Geotextile (non-woven, needle punched) Minimum criteria:
   - Grab tensile strength (lb) ASTM D 4632
   - Elongation at failure (%) ASTM D 4632
   - Trapezoidal tear strength (lb) ASTM D 4533
   - Puncture strength (lb) ASTM D 6241
   - UV light (retained strength) ASTM D 4355
   - Apparent opening size (AOS) ASTM D 4751
     - max 0.22 mm (US sieve size 70)
   - Permeability ASTM D 4491
7. Place plastic sheeting, minimum 4 mil thick, in the upstream cut off trench as shown. Plastic sheeting is optional in downstream cutoff trench if the toe of the structure is normally inundated. If site soils are relatively permeable and normal tailwater is not present the plastic should be placed in the downstream trench.
8. A maximum 5 inch thick 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 No. 40 Sieve. No material may be placed between the blocks and the geotextile.
9. Cutoff trenches, plastic, and geotextile, both upstream and downstream, must extend the full width of block placement.
10. Grout triangular shaped void at each side of chute slope section, each side of inlet apron, across crest of weir and along side slopes at crest of weir. Grout to be 1 part cement and 3 parts sand.
11. Holes in concrete blocks may be filled with soil and seeded with a specified waterway seeding mixture.
12. Concrete blocks must not be driven on or by any machinery during or after placement.
13. Seed and mulch berm according to 342 Critical Area Planting specifications.