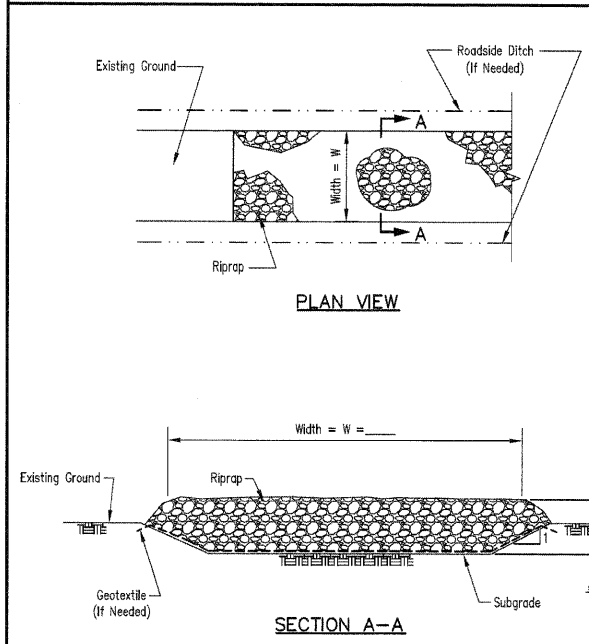


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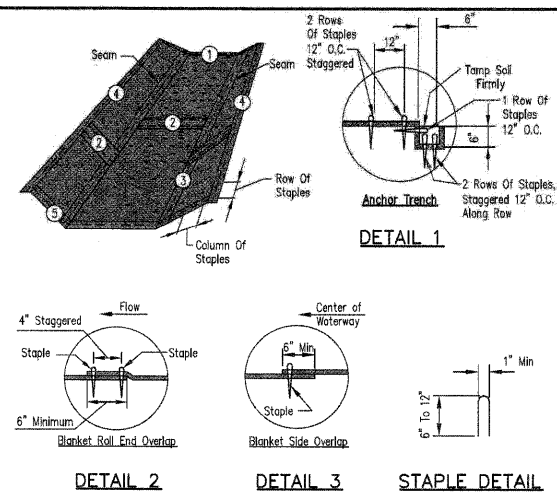
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- NOTES:
1. Rock shall meet one of the following IDOT coarse aggregate gradations, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
 2. See plans for construction road location, D and W dimensions.
 3. Minimum width is 14 feet for one-way traffic and 20 feet for two-way traffic. Two-way traffic widths shall be increased a minimum of 4 feet for trailer traffic. Depending on the type of vehicle or equipment, speed, loads, climatic and other conditions under which vehicles and equipment operate an increase in the minimum widths may be required.
 4. Roadway shall follow the contour of the natural terrain to the extent possible.
 5. 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 | _____ | >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 sieve |
| Permittivity sec ⁻¹ ASTM D 4491 | _____ | min 0.70 |
 6. Any geotextile splices shall overlap a minimum of 18 inches, with upstream or upslope geotextile overlapping the abutting downslope geotextile.

CONSTRUCTION ROAD STABILIZATION

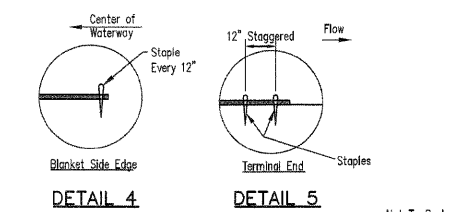


- NOTES:
1. Install erosion control blanket (ECB) over waterway:

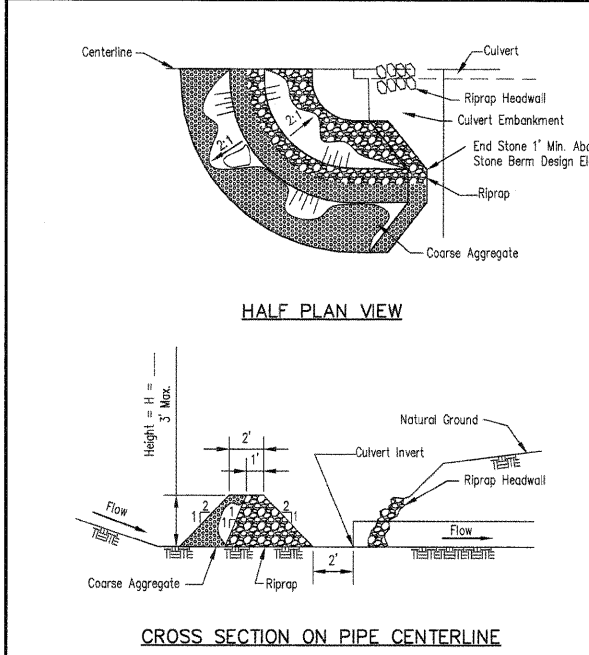
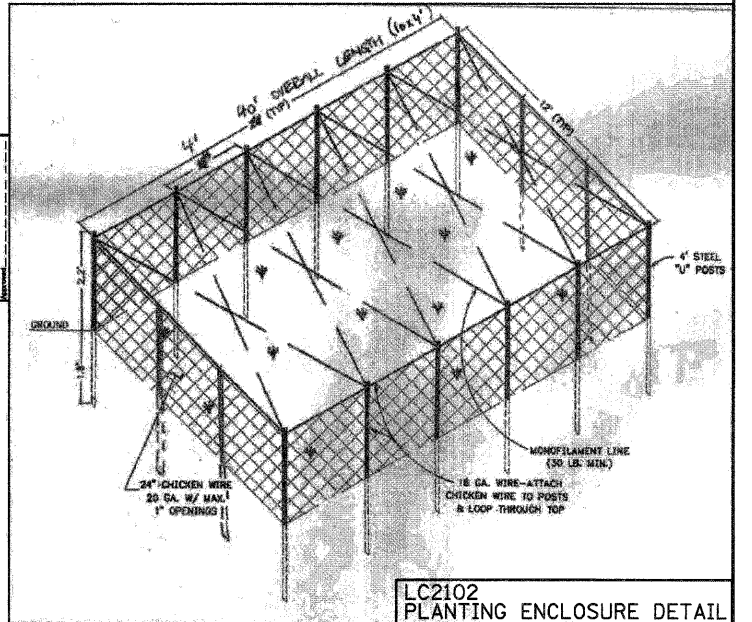
| | |
|----------------|----------------|
| Waterway Width | _____ ft |
| ECB width | _____ ft |
| length | _____ ft |
| Sta. | _____ to _____ |
 2. The erosion control blanket shall consist of a machine produced mat of curled wood or coconut fibers, shall have an expected material life of at least 12 months, shall be new and unused, shall be furnished in rolls, and shall meet the minimum requirements stated in Table 1 below.
 3. Prepare soil prior to installing erosion control blanket, including seeding, fertilizing, and lime application.
 4. The erosion control blanket shall be placed in firm contact with the soil and not be allowed to bridge over surface irregularities. The blanket shall not be stretched.
 5. Start laying the blankets by rolling center blanket in the direction of flow, centered on the centerline of waterway. There shall not be an overlap of blankets at the center of the waterway.
 6. The erosion control blanket shall be anchored, overlapped, and stapled according to manufacturer's instructions. If no manufacturer's instructions are available, install the blanket as follows:
 - a. Staples shall be "U" shaped, 0.12 in diameter wire or greater (#11 gauge). See Staple Detail for dimensions.
 - b. Bury upstream end of blanket in a trench 6 inch wide by 6 inch deep and stapled in staggered rows across the width as shown in Detail 1.
 - c. For joining ends of rolls, overlap end of upslope blanket a minimum of 6 inches over downslope blanket (shingle style). Use a double row of staggered staples 4 inches apart, as shown in Detail 2.
 - d. Blankets on side slopes shall overlap a minimum 6 inches over the blanket below (shingle style). Staple overlap at 12 inch intervals. See Detail 3.
 - e. The outer edge along sides of the blanket shall be stapled every 12 inches. See Detail 4.
 - f. Staples are to be placed alternately in columns (in the direction of the waterway) 2 feet apart and in rows (across the waterway) 3 feet apart, throughout the area covered by erosion blanket.
 - g. Downstream (terminal) end of blanket shall be stapled with a double row of staggered staples 12 inches apart. See Detail 5.

TABLE 1. MINIMUM REQUIREMENTS FOR EROSION CONTROL BLANKET

| | Coconut Blanket | Wood Fiber Blanket |
|---------------------|--|--|
| Type of Fiber | 100% coconut fibers | 100% curled wood fibers |
| Weight, lbs/sq. yd. | 0.50 | 0.63 |
| Fiber Length | N/A | 80% of fibers > 6 in. |
| Fiber Dimensions | N/A | 0.021 in. x 0.042 in. |
| | Optional - Top and bottom of blanket may be covered with a max. 5/8" x 5/8" opening size netting, bound to the mat on max. 1.5" centers. | Optional - Top and bottom of blanket may be covered with a max. 5/8" x 5/8" opening size netting |

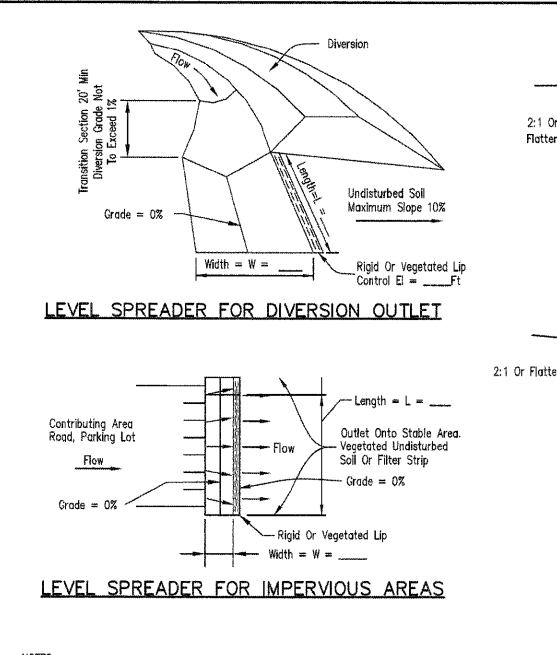


EROSION BLANKET INSTALLATION DETAILS



- NOTES:
1. Sediment shall be removed when the sediment has accumulated to one-half the height of the stone berm.
 2. Coarse aggregate shall meet one of the following IDOT coarse aggregate gradations, CA-1, CA-2, CA-3 or CA-4.
 3. Riprap shall meet IDOT gradation RR-3 or RR-4. Any permanent riprap such as for the culvert headwall, shall meet IDOT Quality Designation A.
 4. Coarse aggregate and riprap shall be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
 5. The maximum drainage area to the culvert being protected is 3 acres.
 6. See plans for H dimension.
 7. Tie the stone berm into the culvert embankment a minimum of 1 foot above the design elevation of the stone berm.

CULVERT INLET PROTECTION

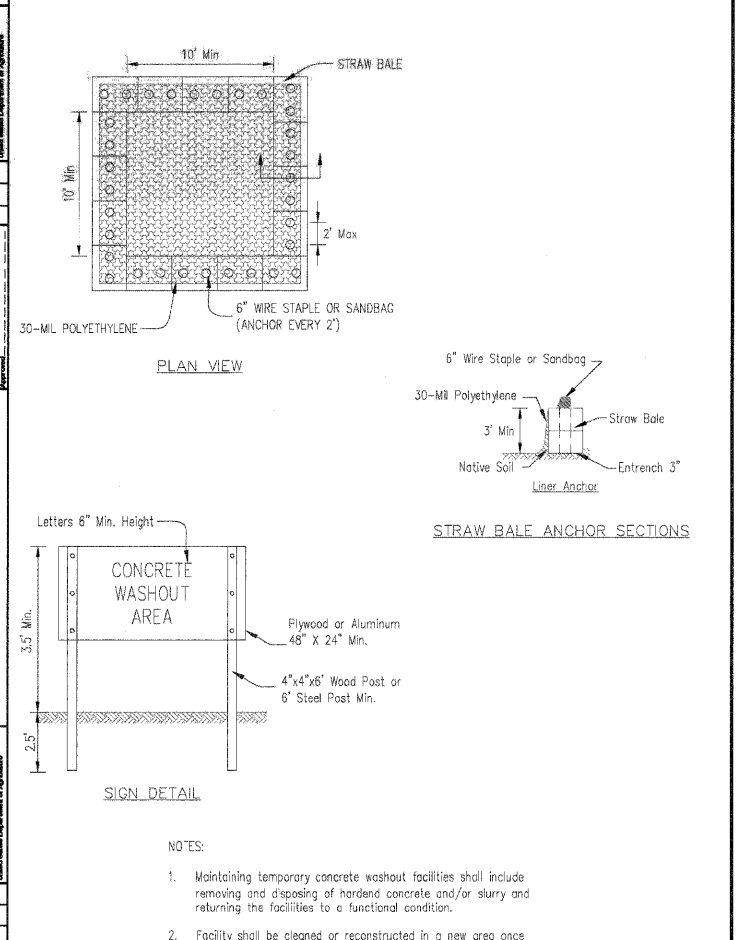


- NOTES:
1. Ends of spreader shall be tied into higher ground to prevent flow around level spreader.
 2. See plans for L and W dimensions.

- NOTES:
1. Coarse aggregate shall meet one of the following IDOT gradations: CA-1 or CA-3.
 2. See plans for permanent seeding requirements.
 3. See plans for D and W dimensions.
 4. 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 | _____ | >50 |
| Puncture (lb) ASTM D 4833 | _____ | 80 |
| Ultraviolet light ASTM D 4355 | _____ | 70 |
| Apparent opening size (AOS) ASTM D 4751 | _____ | max 40 sieve |
| Permittivity sec ⁻¹ ASTM D 4491 | _____ | 0.70 |

LEVEL SPREADER



- NOTES:
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
 2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.
 3. Each straw bale is to be staked in place using (2) 2"x2"x4' wooden stakes.