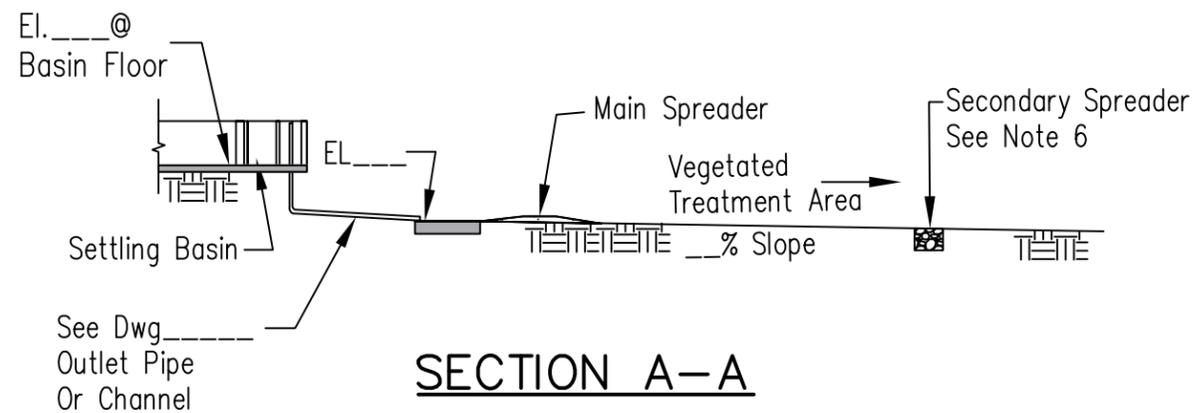
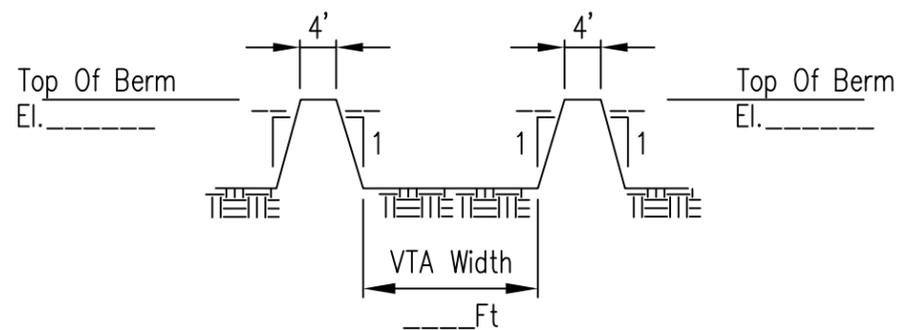


**PLAN VIEW**



**SECTION A-A**



**SECTION C-C**

QUANTITIES	
Hand Shaping-----	As Needed
Gravel----- (1/4" Min To 3/4" Max)	____ Tons*
Earthfill-----	____ Cu. Yds.
Concrete-----	____ Cu. Yds.

\*(For Option 1, Approximately 2.2 Tons Per 10 Lin.Ft.)

**Notes:**

1. Build the vegetated treatment area to finished grade, then build the gravel spreader.
2. The top of the gravel spreader must not vary more than one-tenth of a foot from level.
3. The gravel must be clean crushed rock or washed gravel graded between the lower and upper size limits .
4. Regrade the gravel when ever needed.
5. Clean out the area above the gravel spreader as needed.
6. Provide additional gravel or rock check spreaders at intervals along length of vegetated treatment area as necessary to maintain sheet flow.
7. Establish vegetation on diversion berms and VTA according to Critical Area Planting plan.

**DISTRIBUTION MANIFOLD OPTIONS  
SECTION B-B**

**OPTION 1 - GRAVEL SPREADER**

**OPTION 2 - ROCK CHECK SPREADER**

**Use As Secondary Spreader Without Concrete Pad**

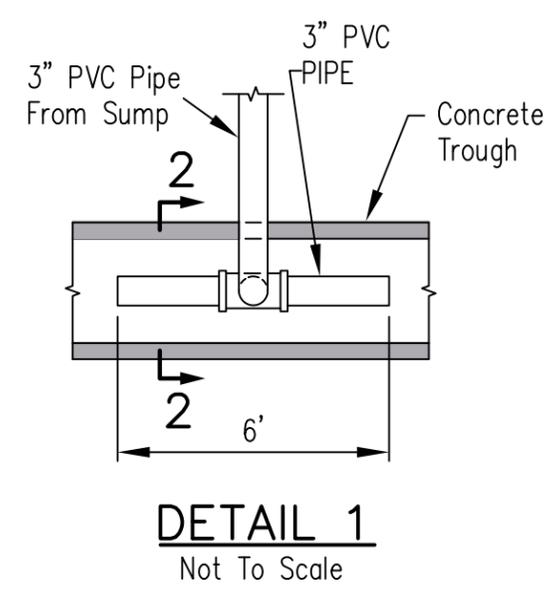
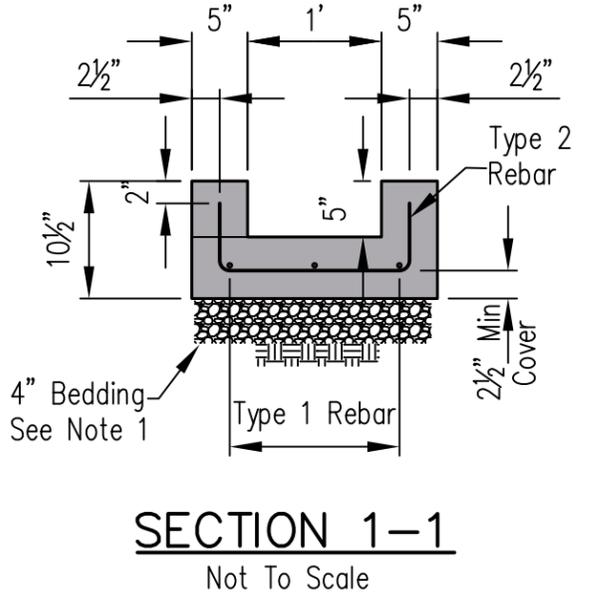
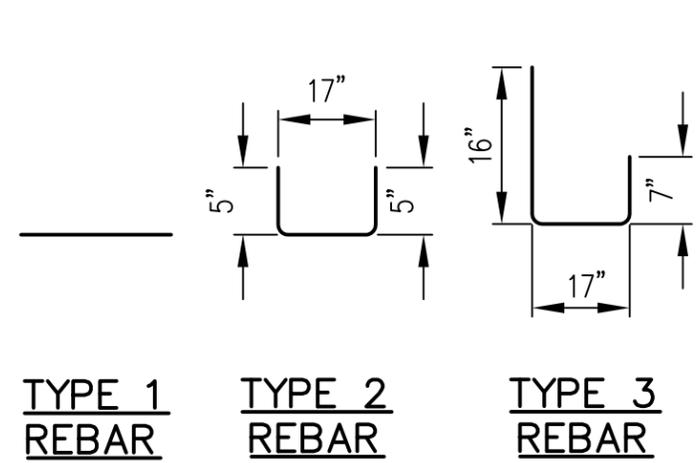
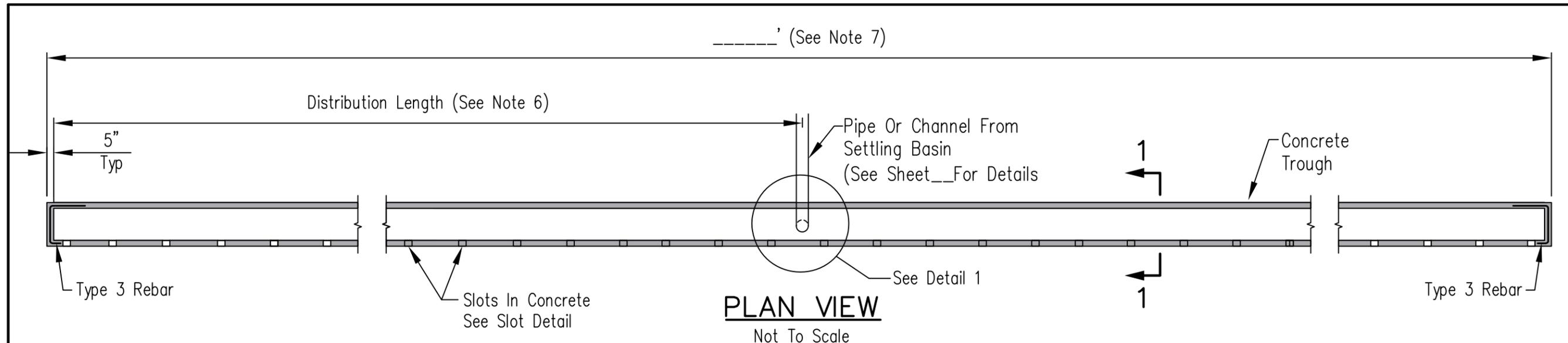
**OPTION 3 - CONCRETE MANIFOLD**  
(See Sheet 2)

Adapted From Wisconsin Drawing WI-595  
And Iowa Drawing IA-1730

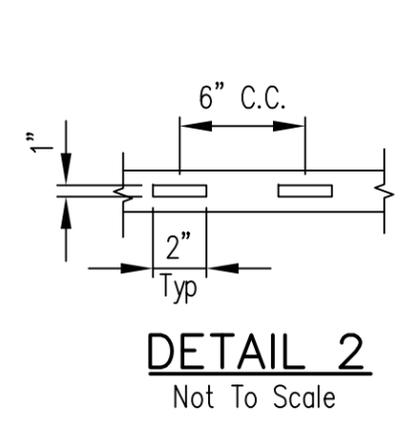
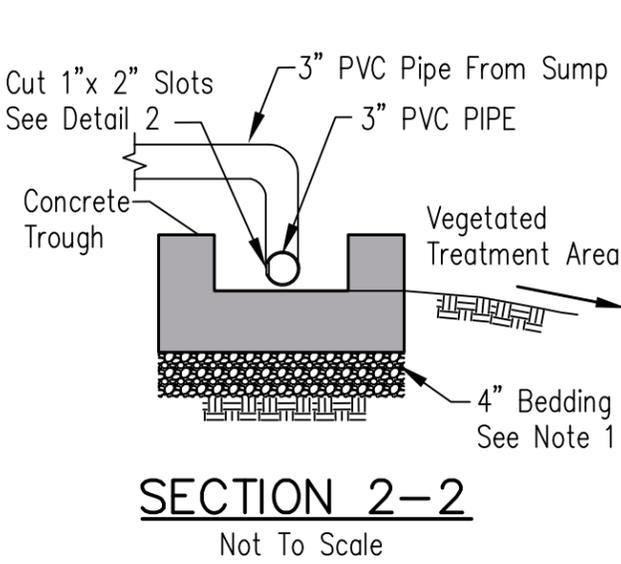
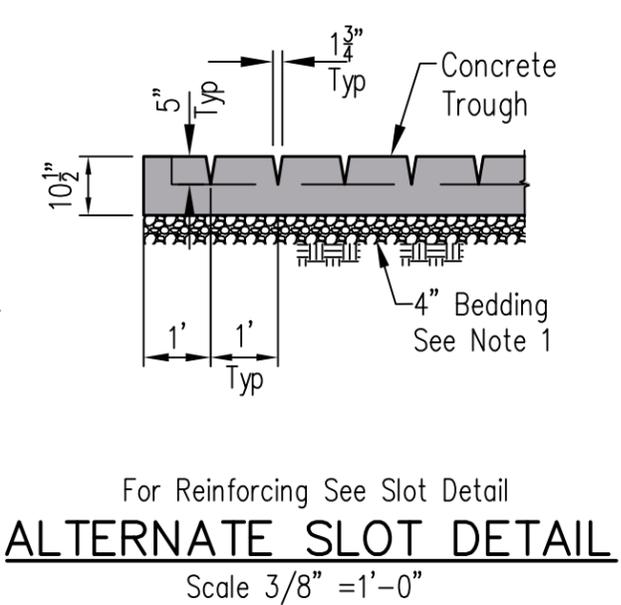
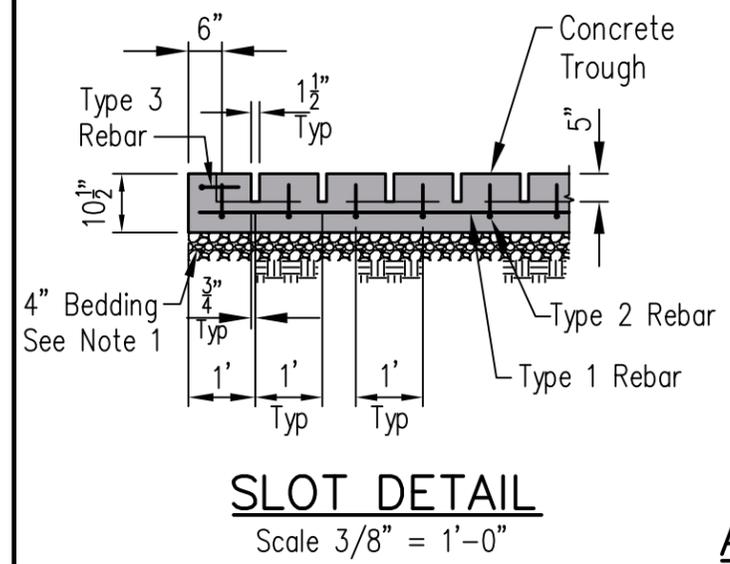
Date	9/1/13
Designed	M. QUINONES
Drawn	
Checked	
Approved	

**VEGETATED TREATMENT AREA  
AND DISTRIBUTION MANIFOLD**





- Notes:**
1. Bedding under concrete shall be IDOT Grad. No. FA 1, 2, 3, 4, or CA 7, 8, 11, 12, 13, 14, 15, 16.
  2. All rebar shall be #4 bars minimum strength Grade 40.
  3. PVC must be UV Protected.
  4. PVC outlet pipe in bottom of concrete trough shall have both ends open and have 12 1"x 2" slots cut every 6" along the length (See Detail 2).
  5. Diversions must be built to exclude clean water from entering the trough and vegetated treatment area.
  6. Distribution length shall be less than 50 feet as measured from entry pipe or channel.
  7. Distribution manifold shall be at least 2 feet shorter than the width of the Vegetated Treated Area.



Date	9/1/13
Designed	M. QUINONES
Drawn	
Checked	
Approved	

**VEGETATED TREATMENT AREA AND DISTRIBUTION MANIFOLD**



Scale As Shown