GIP - 04
INFILTRATION TRENCH

Infiltration Trench Number :		
	Design	As-Built
Treatment Volume (Tv), CF		
Surface Area, SF		
Emergency Spillway Elevation*		
Overflow (TOC) Elevation*		
(A) - GIP Surface Elevation		
(B) - Top of Stone Elevation**		
Outlet Elevation*		
(C) - Subgrade Elevation		
* N/A if not required		
** Required if using turf as a surface cover		
All elevations shall be NAVD88		

DETAIL NOTE:

- Contractor, Engineer, or Owners Representative shall notify MWS NPDES Staff at least 48 hours prior to backfilling the infiltration trench.
- Vehicular and equipment traffic shall be prohibited in the infiltration trench area to prevent compaction and sediment deposition.
- SCM treatment device sign required. Contractor/Developer to coordinate with NPDES inspector.

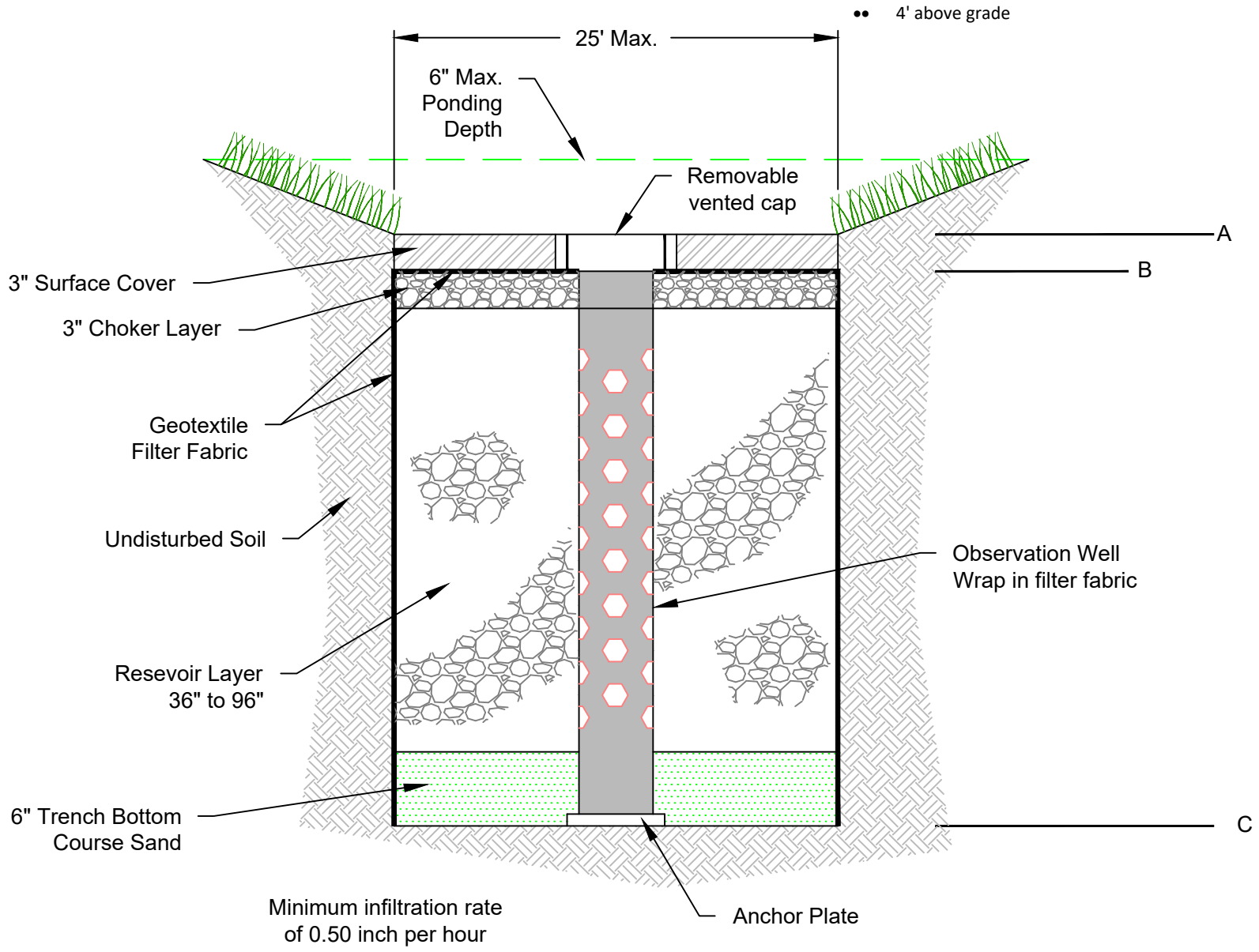
SIGN DESCRIPTION:

- 12" x 18" white 0.063 aluminum
- Single sided
- Sign to be mounted to post at top and bottom with stainless steel hardware

POST DESCRIPTION:

- 6' galvanized U-channel or 4" x 4" pressure treated lumber post
  - 2' below grade
  - 4' above grade

SAMPLE SCM SIGN (NTS)



Infiltration Trench Material Specifications		
Material	**Specifications**	**Notes**
Surface Cover	River stone Turf (acceptable with subsurface inflow, ie. roof leader)	Lay a 3 inch layer on the surface of the filter bed in order to suppress weed growth & prevent erosion.
Geotextile	Use a non-woven geotextile fabric with a flow rate of > 110 gal./min./ft^2 (e.g., Geotex 351 or equivalent)	Apply to the sides and below surface cover. AASHTO M288-06, ASTM D4491 & D4751
Choker Layer	#8 or #89 clean washed stone	Meet TDOT Construction Specifications.
Reservoir Layer	#57 or #2 clean washed stone	Meet TDOT Construction Specifications.
Trench Bottom	Coarse sand	Meet TDOT Construction Specifications.
Observation Well	6-inch SDR 35 PVC pipe with vented cap and anchor plate	Install one per 50 feet of length of infiltration trench (minimum 1)