Appendix K. Miscellaneous Details

Miscellaneous Design Schematics for Compliance with Performance Criteria

Figure K-1: Trash Rack for Low Flow Orifice
Figure K-2: Expanded Trash Rack Protection for Low Flow Orifice
Figure K-3: Internal Control for Orifice Protection
Figure K-4: Observation Well for Infiltration Practices
Figure K-5: On-line Versus Off-line Schematic
Figure K-6: Isolation/Diversion Structure
Figure K-7: Half Round CMP Hood
Figure K-8: Half Round CMP Weir
Figure K-9: Concrete Level Spreader
Figure K-10: Baffle Weir for Cold Climates
Figure K-11: Hooded Outlet with Hood Below Ice Layer
Figure K-12: Shallow Angle Trash Rack to Prevent Icing
Figure K.1 Trash Rack Protection for Low Flow Orifice

NOTES FOR TRASH RACK
1. TRASH RACK TO BE CENTERED OVER OPENING.
2. STEEL TO CONFORM TO ASTM A-36.
3. ALL SURFACES TO BE COATED WITH ZRC COLD GALVANIZING COMPOUND AFTER WELDING.
Figure K.2 Expanded Trash Rack Protection for Low Flow Orifice

EXPANDED STEEL GRATE
3 LBS/FT² WELDED INSIDE
ANGLES, TOP AND BOTH SIDES.
#3.0 GRATING
(SEE DETAIL)

1/4" x 4" STEEL
ALL AROUND

1/2" DIAMETER
HOLE (TYP.)

1" x 1" ANGLES
ALONG TOP EDGES

CAST-IN-PLACE
TRASH RACK BASE
(3'-8" x 3'-2" x 6")

1 LAYER 6" x 6" 4/4
WOVEN WIRE FABRIC
CENTERED IN SLAB
Figure K.3 Internal Control for Orifice Protection
Figure K.4 Observation Well for Infiltration Practices

Each observation well / cleanout shall include the following:

1. For an underground flush mounted observation well / cleanout, provide a tube made of non-corrosive material, schedule 40 or equal, at least three feet long with an inside diameter of at least 6 inches.

2. The tube shall have a factory attached cast iron or high impact plastic collar with ribs to prevent rotation when removing screw top lid. The screw top lid shall be cast iron or high impact plastic that will withstand ultra-violet rays.
Figure K.5 On-Line Versus Off-Line Schematic
Figure K. 6 Isolation Diversion Structure

NOTE ALUMINUM TRASH GRATE IN TWO SEMICIRCULAR SECTIONS
Figure K.7  Half Round CMP Hood
Figure K.8  Half Round CMP Weir

- OPEN TOP
- CMP DRIVEWAY CULVERT
- 1/2 ROUND CMP PIPE-WEIR
- PLATE WELDED TO BOTTOM
Figure K.9 Concrete Level Spreader
Figure K.10  Baffle Weir for Cold Climates
Figure K.11  Hooded Outlet with Hood Below Ice Layer
Figure K.12  Shallow Angle Trash Rack to Prevent Icing