



NOTES

1) Pipe supports and the restrictor/separator shall be constructed of the same material & be anchored at a max. spacing of 36". Attach the pipe supports to the manhole with 5/8" stainless steel expansion bolts or embed the supports into the manhole wall 2".

2) The shear gate shall be fabricated from one of the following materials: A) 0.060" corrug. aluminum alloy drain pipe. B) 0.064" corrugated galv.el drain pipe with treatment 1. C) 0.060" aluminum alloy flat sheet, in accordance with ASTM B209M, Steel 5052 H32 or EPS. D) 0.064" corrug. aluminized steel drain pipe. E) High density polyethylene storm drain pipe.

3) Flow restrictor/separator shall be fabricated from one of the following materials: A) 0.060" corrug. aluminum alloy drain pipe. B) 0.064" corrugated galv.el drain pipe with treatment 1. C) 0.060" aluminum alloy flat sheet, in accordance with ASTM B209M, Steel 5052 H32 or EPS. D) 0.064" corrug. aluminized steel drain pipe. E) High density polyethylene storm drain pipe.

4) The frame and ladder or steps are to be offset so that: the shear gate is visible from the top; the climb-down space is clear of riser and gate; the frame is clear of the curb.

5) The multi-orifice elbows may be located as shown, or all placed on one side of the riser to assure ladder clearance. The size of elbows and their placement shall be specified.

6) Restrictor plate with orifice as specified. Omit plate if for oil pollution control only. The opening is to be cut round and smooth.

7) The shear gate shall be made of aluminum alloy in accord.with ASTM B 26M and ASTM B 275, designation ZG32A; or cast iron in accord. with ASTM A 48, Class 30B. The lift handle shall be made of a similar metal to the gate (to prevent galvanic corrosion), it may be solid rod or hollow tubing, with adjustable hook as required. A neoprene rubber gasket is required between the riser mounting flange & gate flange. Install the gate so that the level-line mark is level when the gate is closed. The mating surfaces of the lid and the body shall be machined for proper fit. All shear gate bolts shall be stainless steel.

8) The shear gate max. opening shall be controlled by limited hinge movement, a stop tab, or some other device.



City of Lake Oswego
Engineering Division
Guy Graham, P.E. Public Works Director
City Engineer

**POLLUTION/FLOW CONTROL
MANHOLE DETAILS**

DRAWING NUMBER: SD1-08B

Drawn: DB	Redrawn:
Design: AH	Redesigned:
Check: AH	Update: KBK
Scale: N.T.S.	Update Check:DK
Date: 5/6/03	Date/Update: 3/22/12