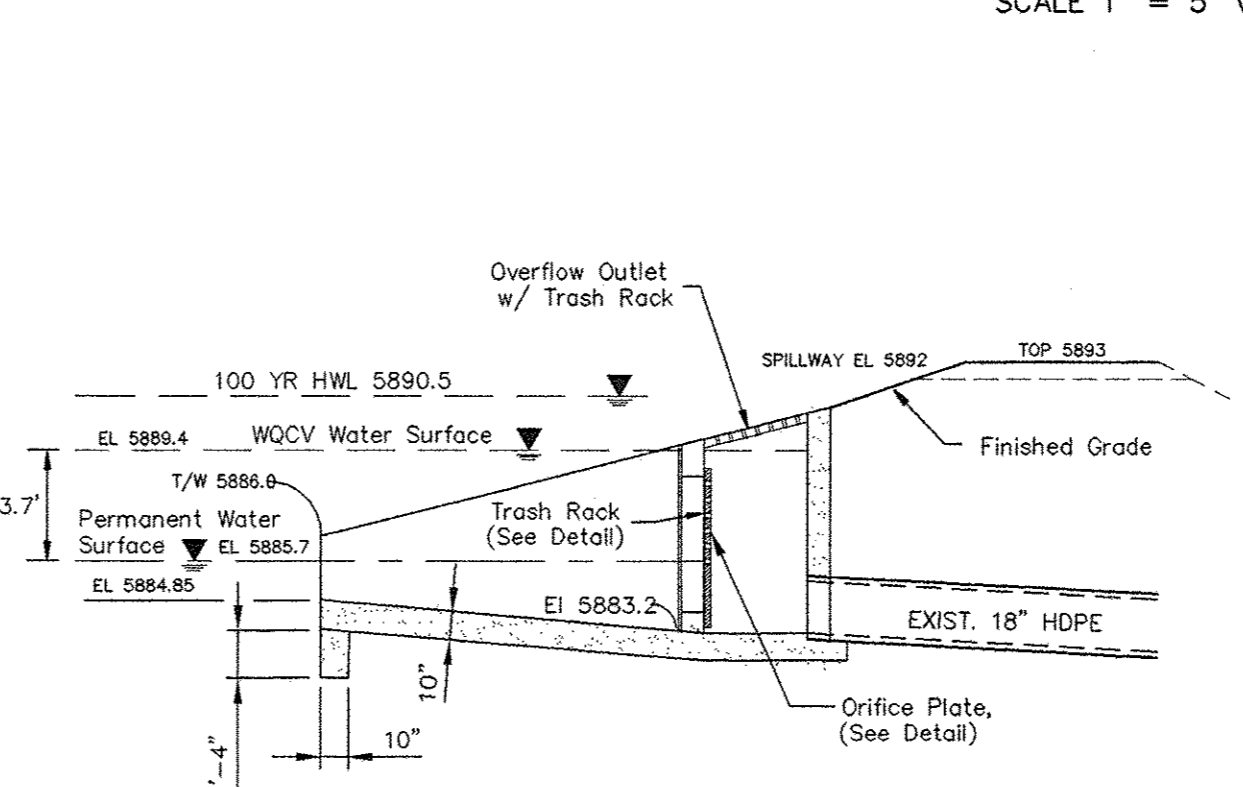
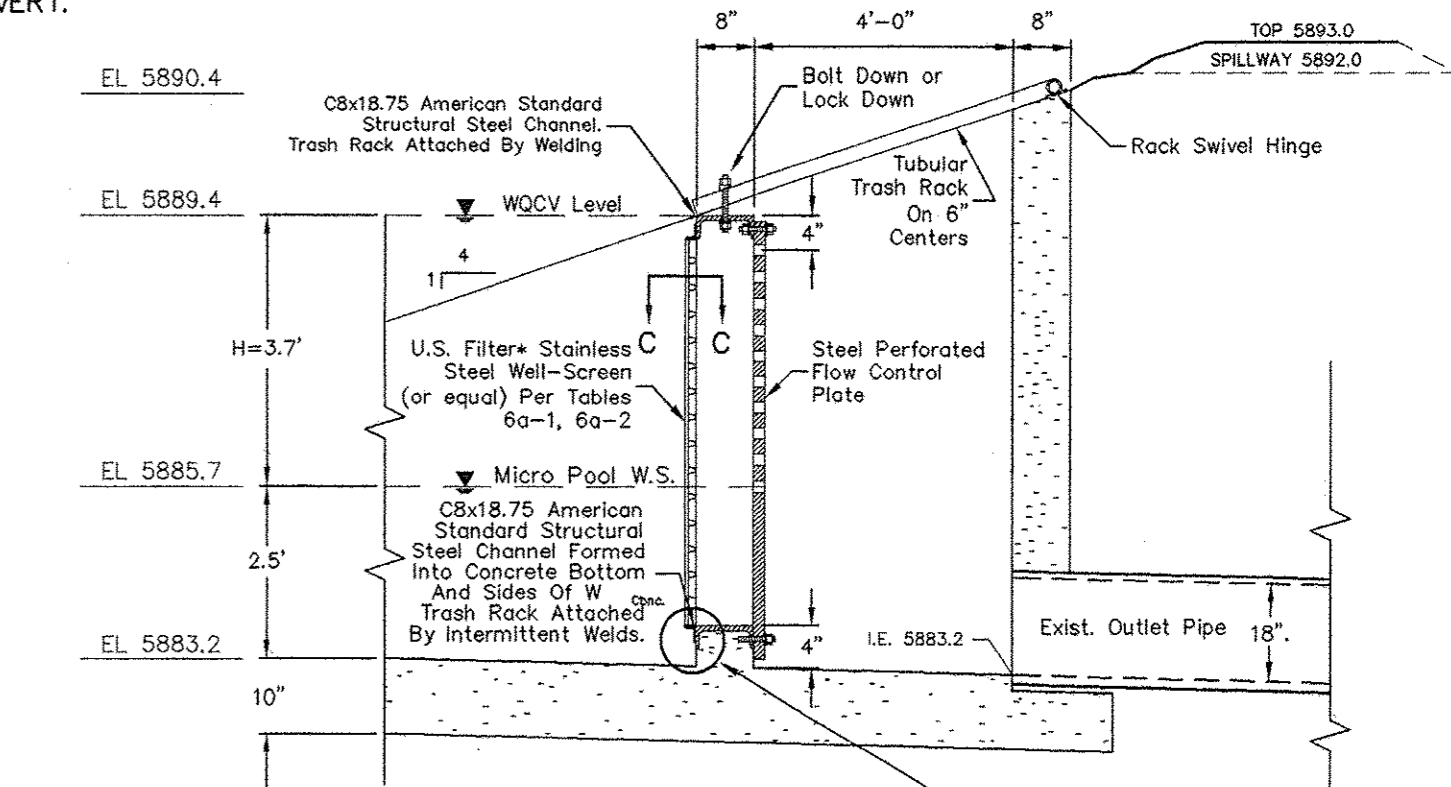


**SECTION A-A  
RIPRAP OFFFALL CHANNEL CONNECTION**  
SCALE 1" = 10' HORIZ.  
SCALE 1" = 5' VERT.



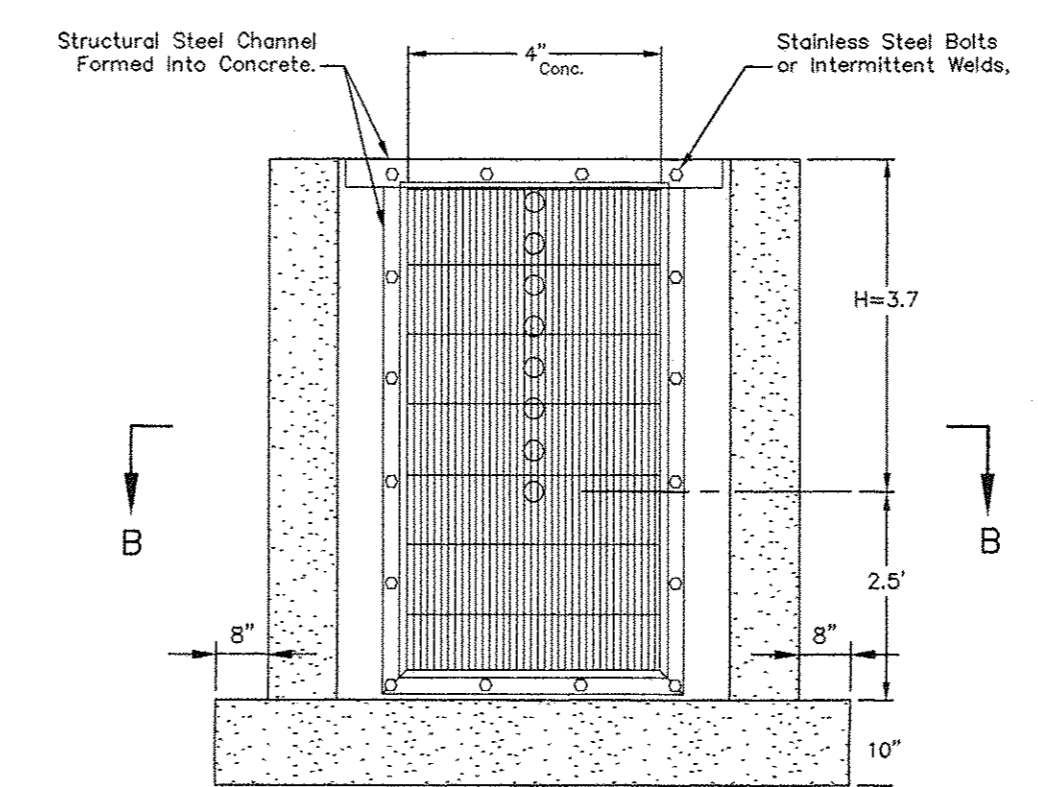
Side View



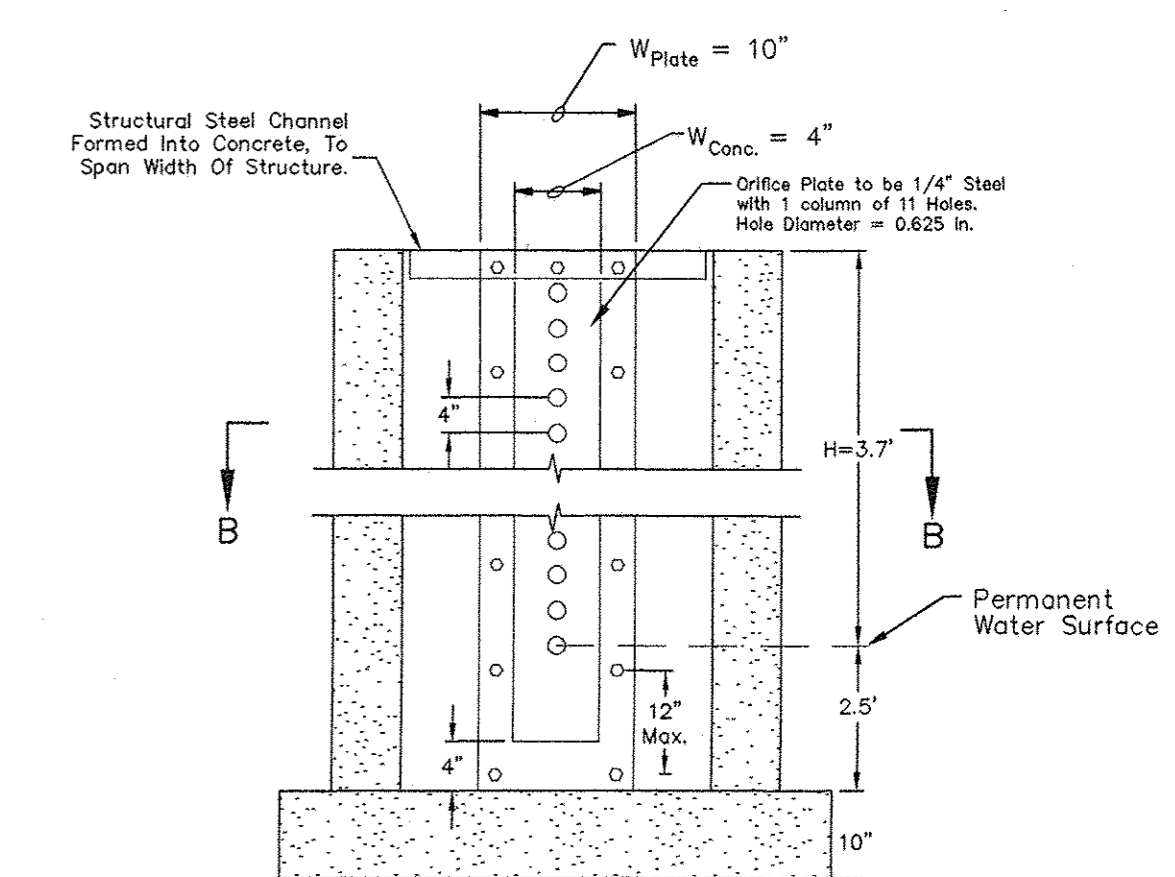
Detailed Side View

**NOTE:**  
OUTLET REINFORCING FOR WALLS, BASE, WING WALLS AND APRON TO BE #4 REBAR @ 9" o.c. EACH WAY. ALL CONCRETE AND REINFORCING SHALL CONFORM WITH THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.

**WATER QUALITY OUTLET**  
NOT TO SCALE



Elevation  
NOT TO SCALE



ORIFICE PERFORATION DETAIL  
NOT TO SCALE

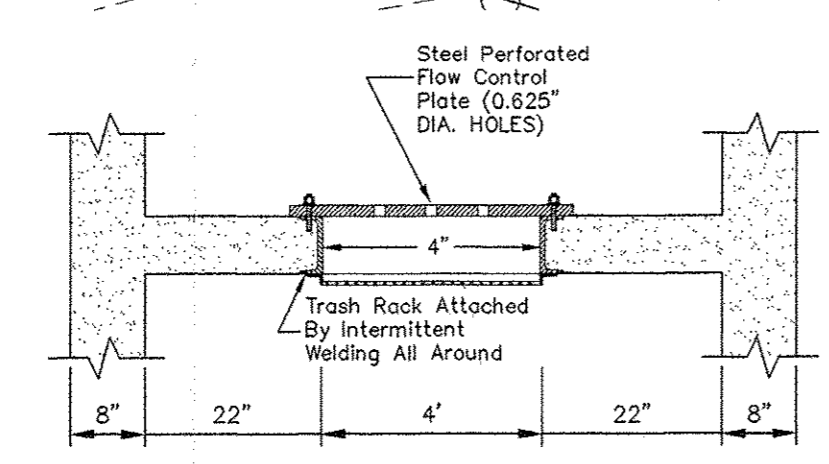
**WQCV Trash Racks:**

- Well-screen trash racks shall be stainless steel and shall be attached by intermittent welds along the edge of the mounting frame.
- Bar grate trash racks shall be aluminum and shall be bolted using stainless steel hardware.
- Trash Rack widths are for specified trash rack material. Finer well-screen or mesh size than specified is acceptable, however, trash rack dimensions need to be adjusted for materials having a different open area/gross area ratio (R value).
- Structural design of trash rack shall be based on full hydrostatic head with zero head downstream of the rack.

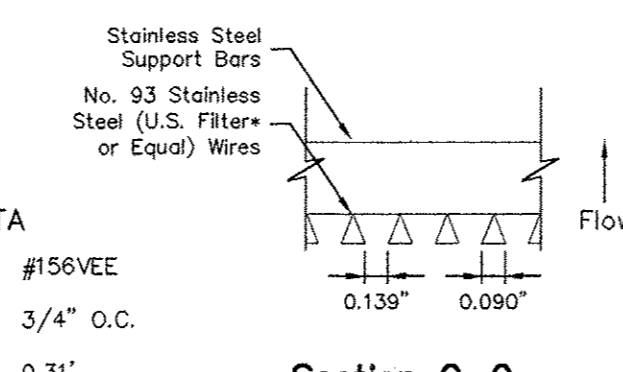
**Overflow Trash Racks:**

- All trash racks shall be mounted using stainless steel hardware and provided with hinged and lockable or boltable access panels.
- Trash racks shall be stainless steel, aluminum, or steel. Steel trash racks shall be hot dip galvanized and may be hot powder painted after galvanizing.
- Trash Racks shall be designed such that the diagonal dimension of each opening is smaller than the diameter of the outlet pipe.
- Structural design of trash rack shall be based on full hydrostatic head with zero head downstream of the rack.

**OUTLET TRASH RACK DETAIL**  
NOT TO SCALE



Section B-B - Top View



Section C-C

**TRASH RACK DATA**

SUPPORT ROD	#156VEE
SUPPORT ROD SPACING	3/4" O.C.
TOTAL SCREEN THICKNESS	0.31'
CARBON STEEL FRAME TYPE	

**TRASH RACK**  
NOT TO SCALE

- All outlet plate openings are circular.
- U.S. Filter, St. Paul, Minnesota, USA

$R \text{ Value} = (\text{net open area}) / (\text{gross rack area}) = 0.60$

Steve & Roland: These Outlet Details Are Acceptable To City Engineering.  
Thank You  
SB Kuehls 8/5/09

<b>ISSUE FOR CONSTRUCTION</b>		8/6/09	
NO.	DATE	REVISION	BY
<p><b>OUTLET &amp; OUTLET DETAILS WATER QUALITY DETENTION POND</b></p> <p>PROJECT: (LYSC SOUTH) <b>LEON YOUNG SERVICE CENTER COLORADO SPRINGS, COLORADO</b></p> <p>PREPARED BY: <b>Obering, Wurth &amp; Associates</b> Consulting Civil Engineers Professional Land Surveyors 1042 Elkton Drive Colorado Springs, Colorado Phone (719) 531-8200 EMAIL: owacivil@mindspring.com</p>			
FIELD BOOK NO.	N/A	SCALE:	1" = 20'
DATE:	06/02/09	DESIGNED BY:	SGB
DRAWN BY:	VPT	PROJECT NO.:	09007
SHEET NO.:	1	SHEET NO.:	1
OF 1 SHEETS			