



STRUCTURE DESIGN SPECIFICATIONS:

- PRECAST CONCRETE MINIMUM (28-DAY) STRENGTH 5000 PSI.
- REINFORCING BARS CONFORMING TO ASTM A 615 (FY=60 KSI).
- DESIGN LOAD: AASHTO HS-20
- STRUCTURE DESIGN TO MEET ASTM C-478.

CONSTRUCTION NOTES:

- CONTRACTOR TO GROUT BETWEEN ACCESS GRADE RINGS TO MATCH FINISHED GRADES.

DESIGN NOTES:

- LEFT-TO-RIGHT CONFIGURATION SHOWN, INLET PIPE LOCATION CAN BE ADJUSTED TO ACCOMMODATE OTHER PIPE LOCATIONS

CONTACT ROTONDO ENVIRONMENTAL SOLUTIONS FOR ENGINEERING ASSISTANCE AND DETAILED DRAWINGS

MODEL	MANHOLE DIAMETER [A]	UNDERDRAIN PIPE DIAM. (SDR 35)	TREATMENT FLOW CAPACITY ¹		BYPASS SHROUD WEIR LENGTH ²	BYPASS FLOW CAPACITY (CFS) ²	MAXIMUM WQV @ 6" PONDING DEPTH (CF) ³
			GPM	CFS			
SGVR-48	48"	4"	18.2	0.0406	2'-8"	7.27	160
SGVR-60	60"	4"	28.5	0.0634	2'-8"	7.27	250
SGVR-72	72"	4"	41.0	0.0913	2'-8"	7.27	348
SGVR-84	84"	4"	55.8	0.1243	2'-11"	7.95	486
SGVR-96	96"	4"	72.9	0.1624	2'-11"	7.95	624
SGVR-120	120"	6"	113.9	0.2537	3'-6"	9.54	987

NOTES:

1. BASED ON WASHINGTON ECOLOGY TAPE GULD APPROVAL FOR BASIC & PHOSPHOROUS AT 1.45 GPM/SF OF MEDIA SURFACE AREA
2. BYPASS FLOW CAPACITY COMPUTED ASSUMING 10.5" MAX DEPTH ABOVE WEIR (ALTERNATE WEIR LENGTHS AND MAX HEADS AVAILABLE)
3. MAXIMUM WATER QUALITY VOLUME COMPUTATION BASED ON RUNOFF CURVE NUMBER OF 100 AND A TIME OF CONCENTRATION OF 5 MINUTES

STORMGARDEN VAULT ROUND - FILTER

