

- Precast concrete structure shall be manufactured in accordance with ASTM Designation C478.
- 2. Filter system shall be supplied with traffic rated (H20) bolted & gasketed Ø36" circular access covers with risers as required. Field poured concrete collar required, by others.
- 3. Inlet & outlet pipe(s) are to be Ø24.00" maximum. Inlet pipes must enter the structure in the inlet bay.
- 4. Inlet chamber shall be supplied with drain-down device designed to remove standing water between storm events.
- Minimum separation between invert in & invert out is outlet pipe diameter plus 4.00".
- 6. For depths less than specified minimums contact Oldcastle® Stormwater Solutions for engineering assistance.
- ★ Treatment Flow Rates shown conform to Washington State GULD Specifications



Notes:

Perk Filter™

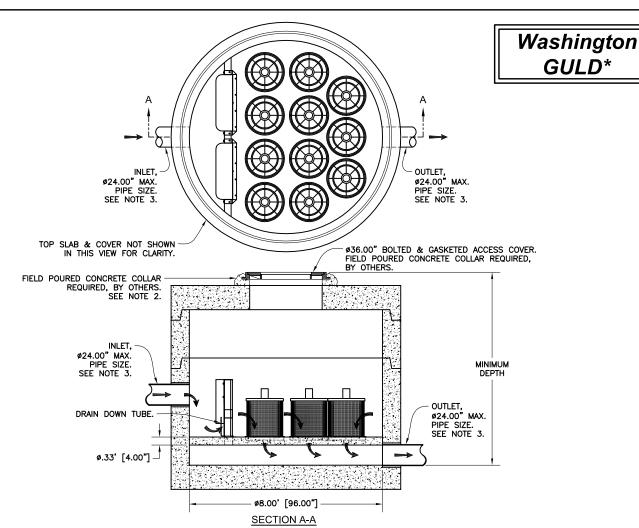
Ø96.00" Manhole Washington State GULD One to Eleven Cartridges / Stacks



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DRAWING NO. | REV | ECO | ECO | O 132 | ISM | 4/27/15 | SHEET 1 OF 2



Minimum Depth												
PIPE SIZE	Ø6.00"	Ø8.00"	Ø10.00"	Ø12.00"	Ø15.00"	Ø18.00"	Ø21.00"	Ø24.00"				
CARTRIDGE TYPE	MINIMUM DEPTH RIM TO OUTLET											
12"	4.00' [48.00"]	4.25' [51.00"]	4.25' [51.00"]	4.50' [54.00"]	5.00' [60.00"]	5.25' [63.00"]	5.50' [66.00"]	5.75' [69.00"]				
18"	4.75' [57.00"]	5.00' [60.00"]	5.00' [60.00"]	5.25' [63.00"]	5.75' [69.00"]	6.00' [72.00"]	6.25' [75.00"]	6.50' [78.00"]				
12" + 12"	5.75' [69.00"]	5.75' [69.00"]	6.25' [75.00"]	6.25' [75.00"]	6.50' [78.00"]	6.75' [81.00"]	7.00' [84.00"]	7.25' [87.00"]				
12" + 18"	6.25' [75.00"]	6.25' [75.00"]	6.75' [81.00"]	6.75' [81.00"]	7.00' [84.00"]	7.25' [87.00"]	7.50' [90.00"]	7.75' [93.00"]				

Ø96.00" PERK FILTER MANHOLE TREATMENT FLOW RATES, TOTAL FLOW CAPACITIES & MAXIMUM HEAD LOSS												
	CARTRIDGE STACK CONFIGURATION											
CARTRIDGE STACK QUANTITY	12"		18"		12" & 12"		12" & 18"					
	TREATMENT FLOW RATE (GPM / CFS)	TOTAL FLOW CAPACITY (CFS)										
1	6.8 / 0.015	4.94	10.2/ 0.022	6.10	13.6 / 0.03	6.90	17 / 0.037	7.24				
2	13.6 / 0.03	4.94	20.4 / 0.045	6.10	27.2 / 0.06	6.90	34 / 0.075	7.24				
3	20.4 / 0.045	4.94	30.6 / 0.068	6.10	40.8 / 0.09	6.90	51 / 0.113	7.24				
4	27.2 / 0.06	4.94	40.8 / 0.09	6.10	54.4 / 0.121	6.90	68 / 0.151	7.24				
5	34 / 0.075	4.94	51 / 0.113	6.10	68 / 0.151	6.90	85 / 0.189	7.24				
6	40.8 / 0.09	4.94	61.2 / 0.136	6.10	81.6 / 0.181	6.90	102 / 0.227	7.24				
7	47.6 / 0.106	4.94	71.4 / 0.159	6.10	95.2 / 0.212	6.90	119 / 0.265	7.24				
8	54.4 / 0.121	4.94	81.6 / 0.181	6.10	108.8 / 0.242	6.90	136 / 0.303	7.24				
9	61.2 / 0.136	4.94	91.8 / 0.204	6.10	122.4 / 0.272	6.90	153 / 0.34	7.24				
10	68 / 0.151	4.94	102 / 0.227	6.10	136 / 0.303	6.90	170 / .378	7.24				
11	74.8 / 0.166	4.94	112.2 / 025	6.10	149.6 / 0.333	6.90	187 / 0.416	7.24				
MAXIMUM					0.0.5557							
HEAD LOSS	1.7 FEET		2.3 FEET		2.9 FEET		3.5 FEET					



Filtration

Perk Filter™

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Oldcastle® Stormwater Solutions

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