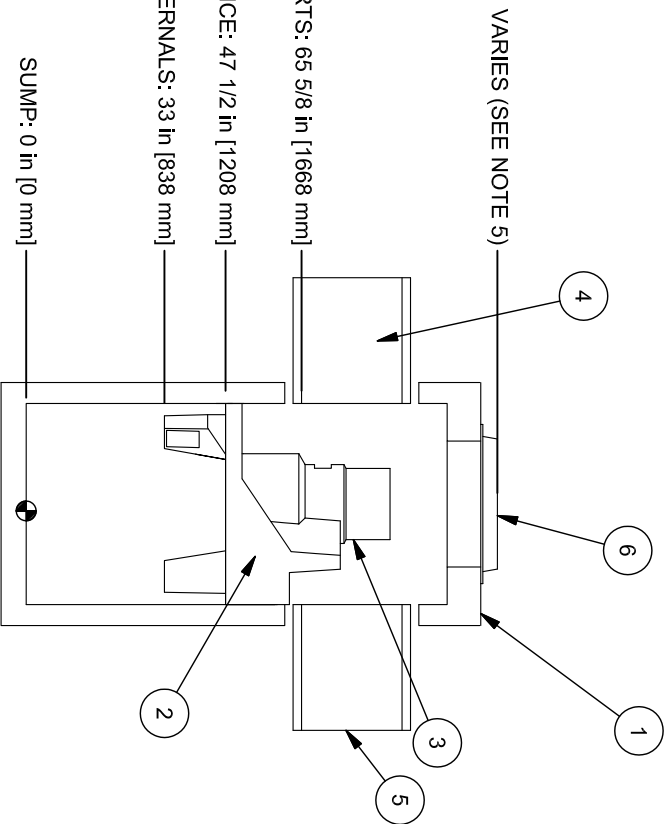
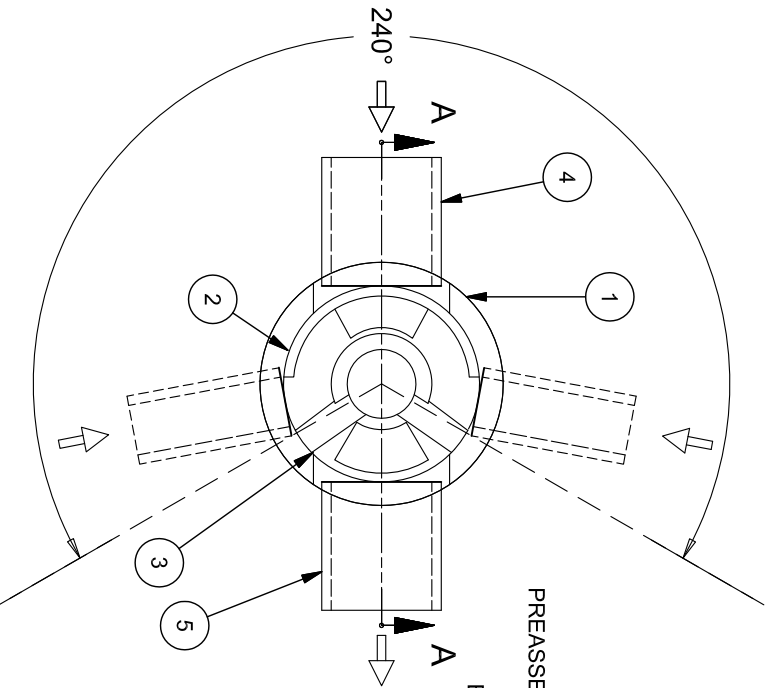




Inlet pipe(s) can enter anywhere within 240° arc.

Parts List	
ITEM	SIZE
1	48 (1219)
2	LEDGER SUPPORT
3	SEPARATION MODULE
4	24 (609.6) INLET PIPE (BY OTHERS)
5	24 (609.6) OUTLET PIPE (BY OTHERS)
6	30 (762) FRAME AND COVER (OR GRATE) (ROUND)

- GENERAL NOTES:**
- General Arrangement drawings only. Contact Hydro International for site specific fabrication drawings.
 - The diameter of the inlet & outlet pipes may be no more than 24".
 - Multiple inlet pipes possible (refer to project plans).
 - Inlet/outlet pipe angle can vary to align with drainage network (refer to project plans).
 - Peak flow rate and minimum height limited by available cover and pipe diameter.
 - Larger sediment storage capacity may be provided with a deeper sump depth.

- PRODUCT SPECIFICATIONS:**
- The treatment system shall use an induced vortex to separate pollutants from stormwater runoff.
 - The treatment system shall fit within the limits of excavation (area and depth) as shown in the project plans and will not exceed the dimensions for the design flow rates specified herein.
 - The treatment system shall remove greater than or equal to 90% of TSS based on the Target Particle Size (TPS) of 106 microns and/or 80% of TSS based on the TPS of 230 microns at 0.7 cfs and 1.2 cfs, respectively.
 - The treatment system shall convey the Peak On-line Flow Rates of up to 18 cfs without causing upstream surcharge conditions. Full-scale independent laboratory scour testing shall demonstrate effluent control of less than or equal to 5 mg/L for all flows up to 200% of MTRF-106.
 - The treatment system shall be capable of capturing and retaining fine silt and sand size particles. Analysis of captured sediment from full-scale field installations shall demonstrate particle sizes predominately in the 20-micron range

Notes

- MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.
- CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING FIRST DEFENSE MANHOLE.
- CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASE OF UNIT TO FABRICATION.

RC	1/14/15	FIRST ISSUE
REV/BY	DATE	DESCRIPTION
REVISION HISTORY		
Date	11/25/14	Scale 1/4" = 1'0"
Drawn	Checked	Approved
RC		

Title

4-FT DIAMETER FIRST DEFENSE

HIGH CAPACITY GENERAL ARRANGEMENT



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