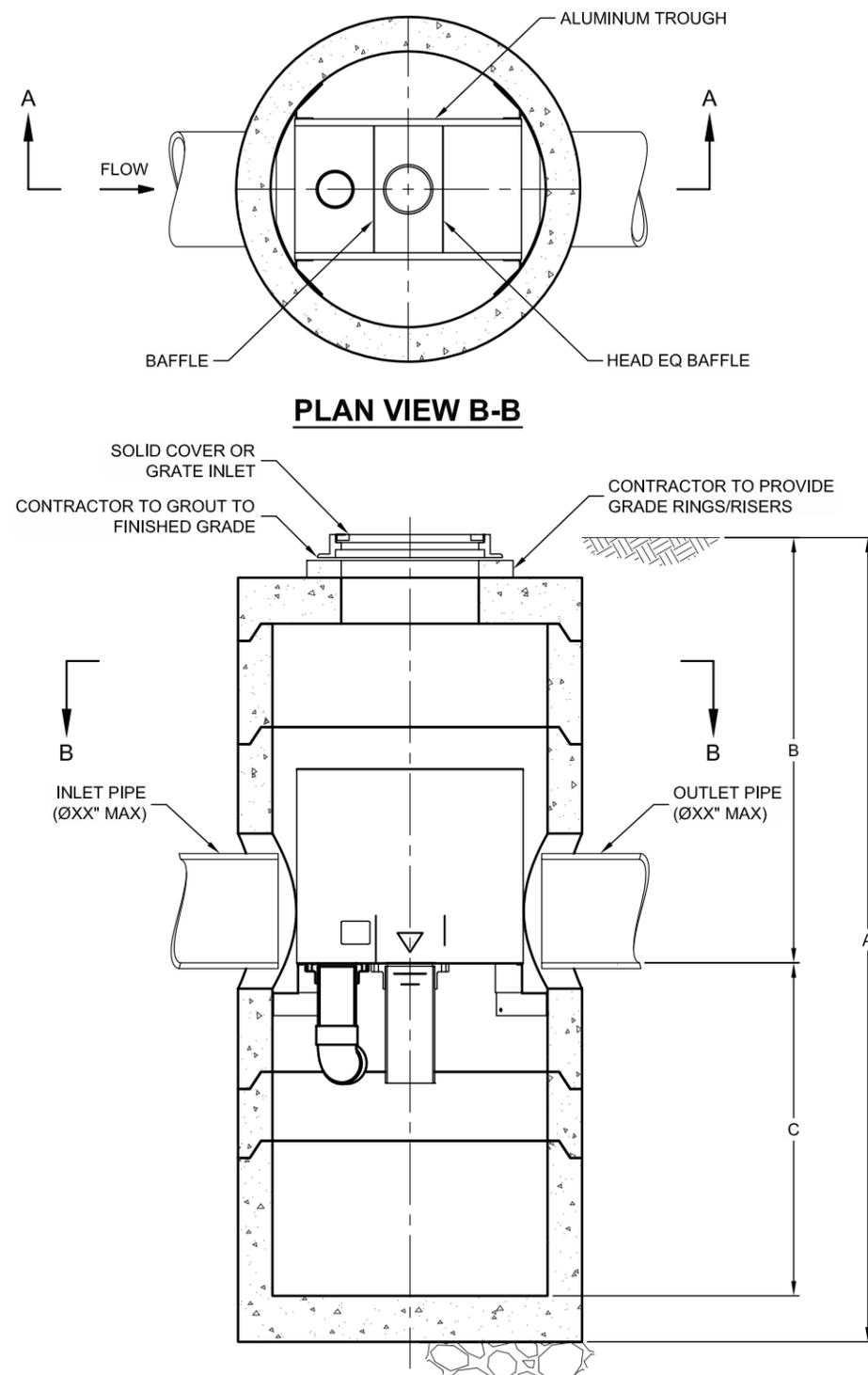


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SECTION A-A

VortSentry

THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 6,991,114; 7,296,692; RELATED FOREIGN PATENTS, OR OTHER PATENTS PENDING.

VORTSENTRY HS DESIGN NOTES

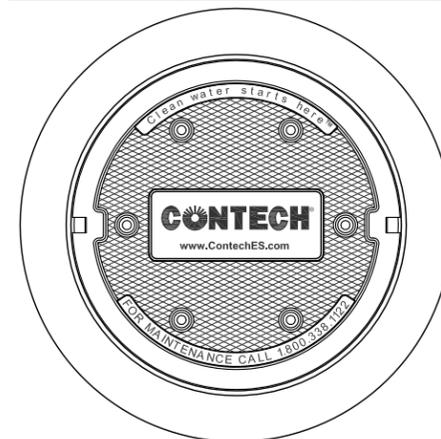
VS HS RATED TREATMENT CAPACITY IS SHOWN IN THE TABLE BELOW, OR PER LOCAL REGULATIONS. MAXIMUM HYDRAULIC INTERNAL BYPASS CAPACITY VARIES. CONTACT YOUR CONTECH REPRESENTATIVE FOR ADDITIONAL INFORMATION.

THE STANDARD SOLID COVER CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW.

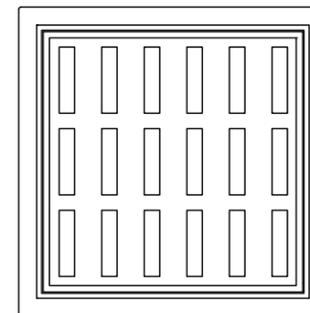
| CONFIGURATION OPTION DESCRIPTION | |
|----------------------------------|-----------------------------|
| | GRATE INLET (NO INLET PIPE) |
| | GRATE INLET WITH INLET PIPE |

VORTSENTRY HS GENERAL INFORMATION

| Model | Manhole Diameter (ID) | | Total Treatment Flow Rate | | Typical Total Distance Rim to Outside Bottom A | | Typical Distance Rim to Invert B | | Typical Depth Below Invert (inside) C | | Approximate Minimum Distance Rim to Invert | | Maximum Pipe Diameter (ID) | |
|-------|-----------------------|------|---------------------------|-------|--|------|----------------------------------|------|---------------------------------------|------|--|------|----------------------------|------|
| | FT | mm | CFS | L/S | FT | m | FT | m | FT | mm | FT | m | IN | mm |
| HS36 | 3 | 900 | 0.55 | 15.6 | 10.16 | 3.10 | 4.08 | 1.24 | 5.58 | 1702 | 3.00 | 0.91 | 18 | 450 |
| HS48 | 4 | 1200 | 1.20 | 34.0 | 13.25 | 4.04 | 6.00 | 1.83 | 6.75 | 2057 | 4.00 | 1.22 | 24 | 600 |
| HS60 | 5 | 1500 | 2.20 | 62.3 | 15.13 | 4.61 | 6.50 | 1.98 | 7.96 | 2426 | 4.82 | 1.47 | 30 | 750 |
| HS72 | 6 | 1800 | 3.70 | 104.8 | 16.56 | 5.05 | 6.75 | 2.06 | 9.15 | 2788 | 5.59 | 1.70 | 36 | 900 |
| HS84 | 7 | 2100 | 5.60 | 158.6 | 18.85 | 5.75 | 7.75 | 2.36 | 10.35 | 3156 | 5.00 | 1.52 | 42 | 1050 |
| HS96 | 8 | 2400 | 8.10 | 229.4 | 20.87 | 6.36 | 8.50 | 2.59 | 11.54 | 3518 | 6.91 | 2.11 | 48 | 1200 |



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.



FRAME AND GRATE
(24" SQUARE)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

| | | | | |
|----------------------------------|-------|----------|----------|---|
| STRUCTURE ID | | | | |
| WATER QUALITY FLOW RATE (CFS) | | | | * |
| PEAK FLOW RATE (CFS) | | | | * |
| RETURN PERIOD OF PEAK FLOW (YRS) | | | | * |
| PIPE DATA: | I.E. | MATERIAL | DIAMETER | |
| INLET PIPE 1 | * | * | * | |
| OUTLET PIPE | * | * | * | |
| RIM ELEVATION | | | | * |
| ANTI-FLOTATION BALLAST | WIDTH | HEIGHT | | |
| | * | * | | |
| NOTES/SPECIAL REQUIREMENTS: | | | | |
| * PER ENGINEER OF RECORD | | | | |

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. VORTSENTRY HS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.

INSTALLATION NOTES

1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE VORTSENTRY HS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
3. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
5. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH
ENGINEERED SOLUTIONS LLC

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800-338-1122 513-645-7000 513-645-7993 FAX

VORTSENTRY HS
STANDARD DETAIL