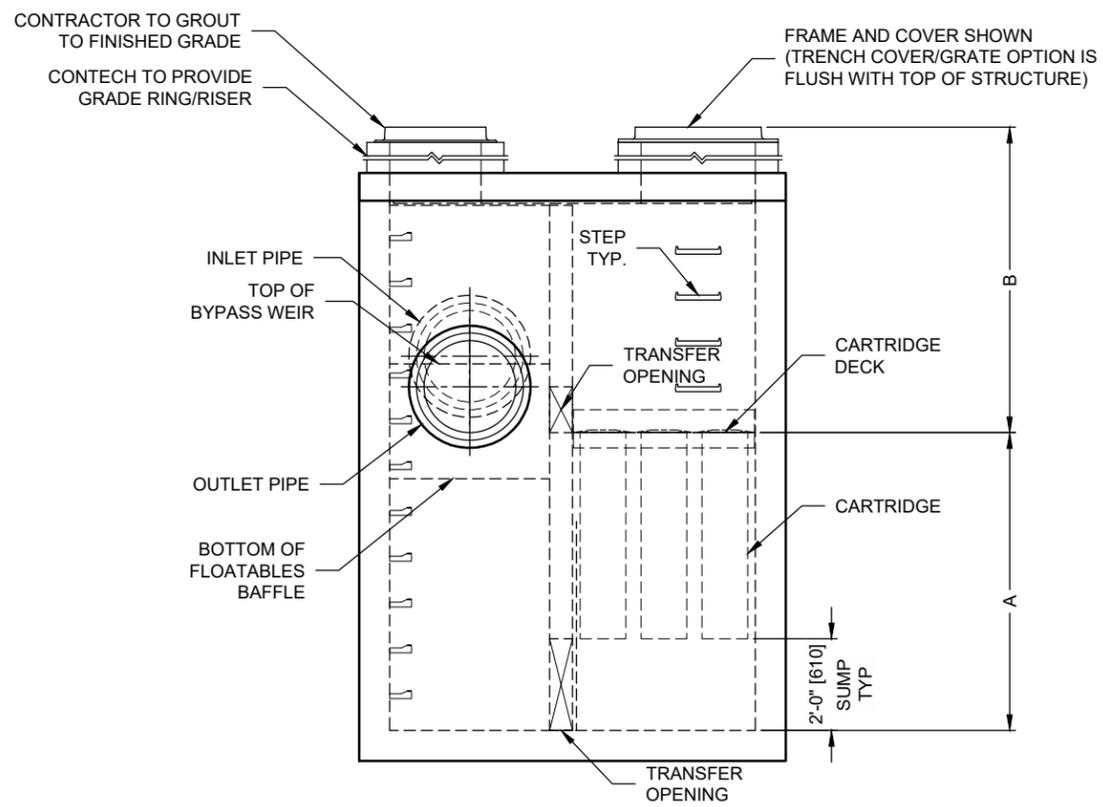


PLAN VIEW
TOP SLAB NOT SHOWN

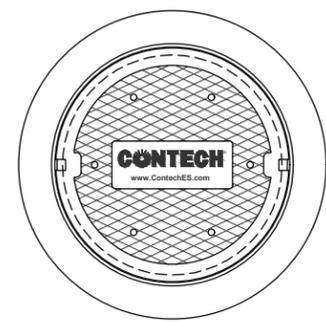


ELEVATION VIEW

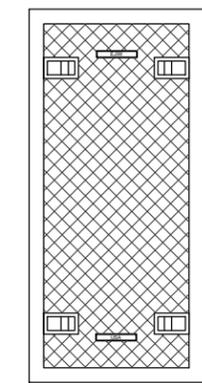
JELLYFISH DESIGN NOTES

JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SIZE, TYPE AND QUANTITY. THE STANDARD PEAK DIVERSION VAULT STYLE WITH PRECAST TOP SLAB IS SHOWN. THE 8' x 8' [2438 x 2438] JELLYFISH PEAK TREATMENT CAPACITY IS 2.94 CFS [83.25 L/s]. MAXIMUM BYPASS CAPACITY IS DETERMINED BY CONTECH ENGINEERED SOLUTIONS. IF THE SITE CONDITIONS EXCEED THE TOTAL BYPASS CAPACITY OF THE SYSTEM, AN UPSTREAM DIVERSION STRUCTURE IS REQUIRED.

CARTRIDGE SIZE	54	40	27	15
FLOW RATE HIGH-FLO / DRAINDOWN (cfs [L/s])	0.178/0.089 [5.10/2.55]	0.133/0.065 [3.68/1.84]	0.089/0.045 [2.55/1.28]	0.049/0.025 [1.42/0.71]
MAXIMUM CARTRIDGE QUANTITY, HI-FLO / DRAINDOWN	15/3			
MAXIMUM TREATMENT	2.94 [83.25]	2.21 [62.58]	1.47 [41.63]	0.81 [22.94]
OUTLET INVERT TO STRUCTURE INVERT (A) (ft. [mm])	6.50 [1981]	5.33 [1625]	4.25 [1295]	3.25 [991]
FINISHED GRADE TO OUTLET INVERT (SHALLOW) (B)	DETERMINED BY CONTECH			
FINISHED GRADE TO OUTLET INVERT (STANDARD) (B) (ft. [mm])	5.67 [1727]	4.58 [1396]		



FRAME AND COVER
STANDARD TOP
SLAB CONFIGURATION
(DIAMETER VARIES)
NOT TO SCALE



24" TRENCH COVER
SHALLOW TOP
SLAB CONFIGURATION
(LENGTH VARIES)
NOT TO SCALE

SITE SPECIFIC DATA REQUIREMENTS					
STRUCTURE ID					
WATER QUALITY FLOW RATE (cfs [L/s])					
PEAK FLOW RATE (cfs [L/s])					
RETURN PERIOD OF PEAK FLOW (yrs)					
NUMBER OF CARTRIDGES REQUIRED (HF / DD)					
CARTRIDGE SIZE (54, 40, 27, 15)					
RIM ELEVATION					
PIPE DATA:	INVERT	MAT'L	DIA	SLOPE %	HGL
INLET PIPE 1					
INLET PIPE 2					
OUTLET PIPE					
SEE GENERAL NOTES 7-8 FOR INLET AND OUTLET HYDRAULIC AND SIZING REQUIREMENTS.					
NOTES / SPECIAL REQUIREMENTS:					

GENERAL NOTES:

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE. www.contechES.com
- ALTERNATE UNITS ARE IN MILLIMETERS [mm] UNLESS NOTED OTHERWISE.
- JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- STRUCTURE SHALL MEET AASHTO HS-20 OR PER APPROVING JURISDICTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT, ASSUMING EARTH COVER OF 0' - 10' [3048], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
- STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-857, ASTM C-918, AND AASHTO LOAD FACTOR DESIGN METHOD.
- OUTLET PIPE INVERT IS EQUAL TO THE CARTRIDGE DECK ELEVATION.
- THE OUTLET PIPE DIAMETER FOR NEW INSTALLATIONS IS RECOMMENDED TO BE ONE PIPE SIZE LARGER THAN THE INLET PIPE AT EQUAL OR GREATER SLOPE.
- NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE.
- CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT).
- WHEN ACTIVATED PRIOR TO SITE STABILIZATION, CONTRACTOR TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
- CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ACCORDING TO THE PROVISIONS IN THE ACTIVATION CHECKLIST AND THE QUOTED SCOPE OF WORK. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION AT (800) 338-1122.

I:\COMMON\CAD\TREATMENT\13 JELLYFISH FILTER\40 STANDARD DRAWINGS\JFPD0808-DTL.DWG 10/11/2024 12:52 PM



THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING: U.S. PATENT NO. 8,287,726; 8,221,618; US 8,123,935; OTHER INTERNATIONAL PATENTS PENDING

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JELLYFISH JFPD0808
PEAK DIVERSION CONFIGURATION
STANDARD DETAIL