

SECTION VIEW (C-C)

SCALE: 1" = 65"

OIL & GREASE ABSORPTION PAD

XX 3", 6" AND/OR 12" GRADE RINGS

24" Ø CAST IRON FRAME AND COVER, H20 RATED

JENSEN PRECAST HIGH VELOCITY INTERCEPTOR/ HORIZONTAL FLOW CLARIFIER; MODEL JPHV-6000-IB

HYDRAULICS AND TREATMENT:

	OPTIMUM DESIGN STORMWATER QUALITY DESIGN FLOW (SQDF)	1.36-CFS		
	STORM DRAIN DESIGN CONVEYANCE FLOW	X.XX-CFS		
	RETURN FREQUENCY/PERIOD OF PEEK DESIGN CONVEYANCE FLOW	XX-YRS		

TREATMENT PERFORMANCE NOTES:

- 1. THIS STORMWATER QUALITY DESIGN FLOW (SQDF) RATE CORRESPONDS TO A 6-GPM/FT² SURFACE LOADING RATE, TARGETING THE REMOVAL OF THE 60-MICRON. FINE SILT SIZE PARTICLE FROM STORMWATER RUNOFF.
- 2. THIS JPHV HORIZONTAL FLOW CLARIFIER WHEN SUBJECTED TO THE STORMWATER QUALITY DESIGN FLOW (SQDF) RATE LISTED IN THE TABLE ABOVE CORRESPONDS TO 6-GPM/FT² OR LESS SURFACE LOADING RATE, WHICH IS FOUR (4X) TIMES MORE CONSERVATIVE THAN THE MAXIMUM ALLOWABLE VALUE OF 24-GPM/FT² FOR HYDRODYNAMIC SEPARATORS. THIS ALLOWS FOR A MORE CONSISTENT REMOVAL EFFICIENCY AS WELL AS A SAFETY FACTOR IN CONSIDERING LARGER STORM EVENTS. THE 24-GPM/FT² SIZING GUIDANCE IS EXPLICITLY SET FORTH IN SECTION MP-51 OF THE BEST MANAGEMENT PRACTICE HANDBOOK, NEW DEVELOPMENT AND REDEVELOPMENT ADOPTED BY ALL NINE (9) OF THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARDS PUBLISHED BY THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA).
- 3. AT ALL FLOW RATES LESS THAN OR EQUAL TO THE SQDF LISTED IN THE TABLE, THIS JPHV PROVIDES:
- FLOATING DEBRIS RETENTION
- SEDIMENTATION WITH SCOUR PROTECTION
- OIL & GREASE ABSORPTION
- ORIFICE OUTLET FLOW CONTROL

DESIGN GUIDANCE NOTES:

- 1. THE IDEAL VERTICAL PLACEMENT OF THE INLET AND OUTLET PIPES OF A JPHV HORIZONTAL FLOW CLARIFIER MAXIMIZES THE USE OF AS MUCH THE TANK'S DEAD POOL VOLUME AS POSSIBLE. TO ACHIEVE THIS, PLACE TOP EXTERIOR OF THE INLET PIPE APPROXIMATELY 3-INCHES BELOW THE SOFFIT OF THE TOP SLAB. ESTABLISH THE INLET INVERT ELEVATION AFTER THIS PLACEMENT. SET THE DISCHARGE OUTLET PIPE INVERT APPROXIMATELY 2-INCHES BELOW THE INLET INVERT. THIS IS A BEST DESIGN GUIDELINE PRACTICE. SETTING THE INLET PIPE INVERT MORE THAN 3" BELOW THE SOFFIT IS ACCEPTABLE, THOUGH THE TANK DEAD POOL VOLUME WILL NOT BE MAXIMIZED.
- 2. A STANDARD JENSEN PRECAST INTERNAL FLOW CONTROL ORIFICE PLATE RESTRICTS OUTLET FLOW TO THE SQDF RATE AND THEREBY ACCUMULATED FLOATABLES AND FINE SEDIMENTS ARE RETAINED DURING LARGER STORM EVENTS.

GENERAL NOTES

- 1. THIS LAYOUT SKETCH IS PROVIDED IN A SCHEMATIC FORMAT. DETAIL OF JENSEN DIVERSION MANHOLE/BYPASS STRUCTURE WITH ADJUSTABLE WEIR AND OPTION FORMED BASE CHANNELS NOT SHOWN. THIS SHEET IS IN ENGINEERING & CONSTRUCTION FORMATTED DETAIL. ENGINEERING & CONSTRUCTION DETAIL READILY AVAILABLE. CONTACT JENSEN PRECAST.
- 2. PLAN VIEW TOP SLAB WITH FRAMES AND COVERS ARE NOT SHOWN FOR CLARITY.
- 3. INLET/OUTLET PIPE STUBS PROVIDED BY JENSEN PRECAST, PIPE TYPE ADAPTORS PROVIDED BY CUSTOMER.
- 4. OIL SORBENT MATS TO BE EQUIPPED WITH RETAINING CORD AND RING, SECURED TO OR UNDER FRAME AND COVER, FOR HAND ACCESS BY OTHERS.
- $5. \ \ DESIGN LOAD: H-20\ TRAFFIC FROM\ 1'\ TO\ 6'\ OF\ COVER\ PER\ ASTM\ C890\ \&\ C915\ AND\ ASSHTO\ LOADING\ METHODS.$
- CONTACT JENSEN PRECAST FOR OTHER INSTALLATION DEPTHS, INLET/OUTLET CONFIGURATIONS, AND/OR LOADING CONDITIONS FOR STRUCTURAL DESIGN REVISION TO MEET PROJECT SPECIFIC NEEDS.

CONSTRUCTION NOTES .

- 1. CONTRACTOR TO VERIFY VERTICAL DIMENSIONS OF ALL PRECAST PIECES IN FIELD.
- 2. VERIFY BASE MATERIAL ELEVATIONS BEFORE PLACING PRECAST COMPONENTS OR BACKFILLING.
- 3. APPLY BUTYL MASTIC AND/OR GROUT TO SEAL JOINTS OF MANHOLE STRUCTURE.
- 4. APPLY LOAD TO MASTIC SEAL IN JOINTS OF TANK SECTIONS TO COMPRESS SEALANT IF NECESSARY. UNIT MUST BE WATER TIGHT, HOLDING WATER UP TO FLOWLINE INVERT (MINIMUM).
- 5. ALL INTERNAL COMPONENTS INSTALLED BY MANUFACTURER.

MATERIALS:

- 1. ALL DIMENSIONS ARE IN FEET AND/OR DECIMAL INCHES.
- 2. PRECAST MATERIALS AND MANUFACTURING METHODS SHALL CONFORM TO ASTM C-857 & C-478.
- 3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH F'c = 5,000-psi AT 28-DAYS.
- 4. THE PORTLAND CEMENT USED IN THE PRECAST SECTION SHALL MEET THE REQUIREMENTS OF TYPE II/V HIGH SULFATE RESISTANT CEMENT IN ACCORDANCE WITH ASTM CLASS M C-150.

LIFTING WEIGHTS :

MODEL:

JENSEN

JENSEN

JENSEN

CONTRACTOR

CONTRACTOR

CONTRACTOR

- 1. HEAVIEST PICK WEIGHT IS 24,500-LBS.
- 2. JENSEN CRANE TRUCK CAN SET A MAXIMUM OF 25,000-LBS AT 15-FT OFFSET DISTANCE FROM CENTER OF CRANE TRUNNION.

PROJECT

	JPHV-6000-IB HORIZONTAL FLOW CLARIFIER LAMINAR SEDIMENTATION	PROJECT NAME, CITY, STATE		521 DU	WATER RESOURCES 521 DUNN CIRCLE, SPARKS, NV 89431-6312 (877) 649-0095 FAX (775) 440-2013		
\dashv	Sedimentation, Oil & Grease, Floatable Debris	ORG. DWG. DATE	REV. DWG. DATE	SCALE:	SHEET SIZE	DRAWN BY	SHEET NUMBER
<u> </u>		04/15/2020	XX/XX/XXXX	AS SHOWN	11" X 17"	R. L.	JPHV-6000-IB
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