**STORMVAULT BIOFILTRATION**

**MODEL: SVBF-UV SX5**

**CONFIGURATION:** UNDERGROUND VAULT

**HYDRAULICS**
- STORMWATER QUALITY DESIGN FLOW (SFQ): XX.X-CFS
- STORM DRIP IN DESIGN CONVEYANCE FLOW: XX-X-CFS
- RETURN FREQUENCY / PERIOD OF PEAK DESIGN CONVEYANCE FLOW: XX-YRS

**TREATMENT**
- BIO SOIL FILTRATION MEDIA
- PUBLIC DOMAIN BIO SOIL MEDIA
- JENSEN'S SIERRA BLEND

**STORMVAULT BIOFILTRATION DESIGNED TO TREAT THE ENTIRE SQDF AT A RATE OF 100 INCHES/FT²/HR WHEN USING JENSEN'S ENGNEERED SIERRA BLEND BIO SOIL MEDIA.**

1. JENSEN'S STORMVAULT BIOFILTRATION (SVBF) DESIGNED AND SIZED TO TREAT THE ENTIRE SQDF.
2. CAPTURED WATER QUALITY CONSTITUENTS:
   - TOTAL SUSPENDED SOLIDS (TSS)
   - PHOSPHORS
   - TOTAL AND DISSOLVED NITROGEN
   - OIL & GREASE
   - Fecal Coliform

**HYDRAULICS**
- STORMVAULT BIOFILTRATION PEAK CONVEYANCE FLOW: 2.5-GPM
- SVBF-UV 5X5 MODEL: 50-GPM

**CONSTRUCTION & INSTALLATION NOTES**
1. CONTRACTOR TO VERIFY ALL ELEVATIONS AND DIMENSIONS IN FIELD PRIOR TO INSTALLATION.
2. THE CONNECTION BETWEEN THE INTERNAL DRAIN RINGS OF THE SVBF SHALL BE MADE USING CONNECTORS CONFORMING TO ASTM C322, AS MADE BY KOR-IN-SEAL, A L.O.K., OR APPROVED EQUAL AND SHALLOW WATERFALL.
3. CONTRACTOR MAY ALSO GROUT ALL PIPE PENETRATIONS IN PRECAST CONCRETE OPENINGS IN FIELD AS NECESSARY.
4. CONTRACTOR TO PROVIDE FIELD FLOOR OF CURB TO THE ELEVATIONS SHOWN ON THE SITE DRAWINGS AS NECESSARY.
5. THE CONNECTION BETWEEN THE STORM DRAIN VENTS AND THE SVBF MAY BE MADE USING A RESIDENT CONNECTOR CONFORMING TO ASTM C322, AS MADE BY KOR-IN-SEAL, A L.O.K., OR APPROVED EQUAL AND SHALL BE WATERPROOF.
6. VEGETATION, FOUNDATION, SUBGRADE, AND RAINFALL TO BE DESIGNED BY OTHERS.
7. JENSEN'S STORMVAULT BIOFILTRATION TANKS SHOULD BE POSITIONS IN FIELD ALLOWING FOR CONSTRUCTION OF CONTINUOUS SIDEWALKS AND LANDSCAPE FEATURES.
8. MULTI-TYPE CAN BE LOCATED ON ANY SIDE OF THE BOX, AND THE BOX MAY VARY IN DESIGN.

**MATERIALS & DESIGN PARAMETERS**
1. ALL DIMENSIONS ARE IN INCHES./INCHES."
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH F'c 1,500 PSI AT 28-DAYS.
3. THE PORTLAND CEMENT USED IN THE PRECAST SECTION SHALL MEET THE REQUIREMENTS OFタイプ/FV HIGH-SULFATE RESISTANT CEMENT IN ACCORDANCE WITH ASTM C 150.
4. VALVE SECTIONS DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ASTM C937 & C938.
5. ALL PRECAST CONCRETE COMPONENTS TO BE MANUFACTURED IN AN MPCA CERTIFIED PLANT.
6. IF REQUIRED, JENSEN WILL FURNISH VAULT WITH EARLY-APPLIED WATERPROOFING COATING MOUND 3" DEEP ON THE ENTIRE INSIDE SURFACE OF THE VAULT.
7. BRIDGING STONE SHALL BE CLEAN, WASHED.
8. BRIDGING STONE CEMENT TO BE A 7,000 PSI (300 ksi) GRADE.
9. GROUNDWATER ELEVATION IS ASSUMED TO BE BELOW THE BOTTOM OF THE PRECAST STRUCTURE. CONTACT JENSEN STORMWATER SYSTEMS FOR HIGH-GROUNDWATER CONDITIONS.
10. STANDARD CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE READILY AVAILABLE. CONTACT JENSEN STORMWATER SYSTEMS FOR CUSTOM DESIGN.
11. FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN STORMWATER SYSTEMS.
12. JENSEN STORMWATER SYSTEMS TO PROVIDE ALL MATERIALS AS SHOWN, UNLESS OTHERWISE NOTED.
13. ALL CONCRETE COMPONENT THICKNESSES, DIMENSIONS, AND JOINT ORIENTATIONS MAY VARY ACROSS JENSEN-PRECAST'S MANUFACTURING FACILITIES.