STORMVAULT BIOFILTRATION (SVBF)

MODEL: SVBF-TW 8X8

HYDRAULICS

STORM WATER QUALITY DESIGN FLOW (GDF)  4 X X X – CFS
STORM DRAIN DESIGN CONVEYANCE FLOW  XX – CFS
RETURN FREQUENCY / PERIOD OF PEAK DESIGN CONVEYANCE FLOW  XX – YRS

TREATMENT

BV SOIL FILTRATION MEDIA  PUBLIC DOM AIN
JENSEN’S SEEDS BLEND 0.1 – GPM/FT2 2 – GPM/FT2
JENSEN’S SEEDS BLEND 0.1 – GPM/FT2
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**JENSEN IN BIORETENTION & INFILTRATION TREEPLANT STORMVAULT BIOFILTRATION SIZED TO TREAT THE ENTIRE SQDF AT A RATE OF 10 INCHES/HR WHEN USING JENSEN’S ENGINEERED SEED BLEND 0.1X – CFS

1. JENSEN’S STORMVAULT BIOFILTRATION (SMB) DESIGNED AND USED TO TREAT THE ENTIRE SQDF
2. CAPTURED WATER QUALITY CONSTITUENTS:
   a. TOTAL SUSPENDED SOLIDS (TSS)
   b. PHOSPHORS
   c. TOTAL AND DISAGGREGATED COPPER
   d. CHLORIDES
   e. OIL & GREASE
   f. FRAME CONFORM

CONTRACTION & INSTALLATION NOTES

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS IN FIELD PRIOR TO INSTALLATION.
2. THE CONNECTION BETWEEN THE INTERNAL DRAIN PIPING IN THE SMB SHALL BE MADE USING CONNECTORS CONFORMING TO ASTM C96, AS MADE BY KOER-KEH, A LOK, OR APPROVED EQUAL AND SHALL BE WATERPROOF.
3. CONTRACTOR MAY ALSO ROUTE ALL PVC PIPES IN PRECAST CONCRETE OPENINGS IN FIELD AS NECESSARY.
4. CONTRACTOR TO PROVIDE FIELD POURED CUBES TO THE SPECTRUM SHOWN ON THE SITE DRAWINGS AS NECESSARY.
5. THE INTERNAL DRAIN PIPING IN THE SMB SHALL BE MADE USING A RELIANT CONNECTOR CONFORMING TO ASTM C96, AS MADE BY KOER-KEH, A LOK, OR APPROVED EQUAL AND SHALL BE WATERPROOF.
6. VEGETATION, SUBGRADE, AND BASE TO BE TREATED BY OTHERS.
7. SMB CAN BE DESIGNED AS AN OPEN TOP SWALE SYSTEM TO RECEIVE SURFACE FLOW FROM ALL SOURCES, ELIMINATING TOP SLOPE AND TREE GUTT.
8. SMB MAY BE DESIGNED WITH SHEARED TOP OF WALLS TO BE POUR ED IN FIELD ALLOWING FOR SURFACE FLOW TO ENTER THE SMB ON EXISTING SITES.
9. INLETS THROUGH CURB CAN BE LOCATED AT ANY SIDE OF THE BOX AND THEIR DIMENSIONS VARY PER DESIGN.

MATERIALS & DESIGN PARAMETERS

1. ALL DIMENSIONS ARE INCHES, ROUNDS.
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH F’c 5,000 – 28 DAYS.
4. VAULT SECTIONS DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ASTM C671 & C672.
5. ALL PVC PIPE COMPONENTS TO BE MANUFACTURED IN AN ISO 9001 FACTORY.
6. IF REQUIRED, JENSEN WILL FURNISH VAULT WITH FLUSH-APPLIED WATERPROOFING COATING AROUND ENTIRE INSIDE SURFACE OR BMB.
7. ALL VAULTS TO BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ASTM C671 & C672.
8. ALL PVC PIPES SHALL CONFORM TO ASTM D 3038 DER-95 PIPE.
9. GRANULAR ENDPOINT IS ASSIGNED TO BE BELOW THE BOTTOM OF PRECAST STRUCTURE CONTACT JENSEN STORMWATER SYSTEMS FOR HIGH GROUNDWATER CONDITIONS.
10. STANDARD CONCRETE IS SHOWN. ALTERNATE CONCRETE IS AVAILABLE CONTACT JENSEN STORMWATER SYSTEMS FOR CUSTOM DESIGNS.
11. FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN STORMWATER SYSTEMS.
12. JENSEN STORMWATER SYSTEMS IS SHOWN. ALTERNATE CONCRETE IS AVAILABLE CONTACT JENSEN STORMWATER SYSTEMS FOR CUSTOM DESIGNS.
13. TREE GUTT S WITHIN 12” OF 36” X 36” X 48”; OTHER GUTT S AVAILABLE UPON REQUEST.
14. ALL CONTRACT COMPONENT THICKNESS, DIMENSIONS, AND JOINT ORIENTATIONS VARY ACROSS JENSEN’S MANUFACTURING FACILITIES.