STORMVAULT BIOFILTRATION (SVBF)
CONFIGURATION: PLANTER BOX (-PB) MODEL: SVBF-PB 4X4

HYDRAULICS

STORMWATER QUALITY DESIGN FLOW (SQDF) xxx.x-CFS
STORM DRAIN DESIGN CONVEYANCE FLOW XX-X-CFS
RETURN FREQUENCY / PERIOD OF PEAK DESIGN CONVEYANCE FLOW XX-YRS

TREATMENT

BIO SOILS FILTRATION MEDIA
PUBLIC DOMAIN BIO SOIL MEDIA
JENSEN'S SEVERA BLEND *

10-IN/HR 193-IN/HR
1.0-GPM/FT2 2-GPM/FT2

BIOFILTRATION TO TREAT THE SQDF AT RATE OF 10-INCHES/HR USING PUBLIC
JENSEN'S ENGINEERED BLEND

BIO SOILS FILTRATION MEDIA

1.6-GPM 32-GPM

SVBF-PB 4X4 T. Schmaling

CONSTRUCTION & INSTALLATION NOTES

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS IN FIELD PRIOR TO INSTALLATION.
2. THE CONNECTION BETWEEN THE INTERNAL DRAINAGE OF THE SVBF SHALL BE MADE USING
CONNECTIONS CONFORMING TO ASTM C233, AS APPROVED BY JENSEN, A CO, OR APPROVED EQUAL
AND SHALL BE WATERPROOF.
3. CONTRACTOR MAY ALSO GROUT ALL PIPE PENETRATIONS IN Precast concrete openings in field AS NECESSARY.
4. CONTRACTOR TO PROVIDE FIELD CURB TO THE ELEVATIONS SHOWN ON THE SITE DRAWINGS
AS NECESSARY.
5. THE CONNECTION BETWEEN THE SVBF DRAINAGE LINE AND THE SVBF SHALL BE MADE USING A RESIDENTIAL
CONNECTOR CONFORMING TO ASTM C233, AS APPROVED BY JENSEN, A CO, OR APPROVED EQUAL
AND SHALL BE WATERPROOF.
6. VEGETATION, FOUNDATION, SUBGRADE, AND BACKFILL TO BE DESIGNED BY OTHERS.
7. SVBF CAN BE RECONFIGURED AS OPEN TOP SUBGRADE SYSTEM TO RECEIVE SURFACE FLOW
FROM ALL SOURCES, ELIMINATING TOP SLAB AND TREE GRATES.
8. INTERNAL DRAINAGE SYSTEMS MAY BE PROVIDED IN FIELD ALLOWING FOR CONSTRUCTION OF CONTINUOUS CURBSEXCEPT AS NOTED.
9. WASTES THROUGHOUT CURB CAN BE LOCATED ON ANY SIDE OF THE BOX AND THE BOX DIMENSIONS VARY FOR
DESIGN.

MATERIALS & DESIGN PARAMETERS

1. ALL DIMENSIONS ARE IN DECIMAL INCHES.
2. CONCRETE SHAL FORM A MINIMUM COMpressive STRENGTH OF f ′c = 5,000 psi AT 28-DAYS.
3. THE FRACTIONAL CEMENT USED IN THE PRECAST SECTION SHALL MEET THE REQUIREMENTS OF TYPE V (V HIGH
SULFATE RESISTANT) CEMENT IN ACCORDANCE WITH ASTM CLASS M-40/50.
4. VALVE SECTIONS DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ASTM C937 & C976.
5. ALL PRECAST CONCRETE COMPONENTS TO BE MANUFACTURED IN AN APWA CERTIFIED PLANT.
6. IF REQUIRED, JENSEN WILL APPLY A VARNISH OR NITRIDE FINISH TO THE FACING SIDE OF
THE INTERNAL DRAIN SYSTEM.
7. INTERNAL DRAINAGE SYSTEMS MAY BE PROVIDED IN FIELD ALLOWING FOR CONSTRUCTION OF CONTINUOUS CURBSEXCEPT AS NOTED.
8. ALL PVC PIPE SHALL CONFORM TO ASTM D2159./231-PEX PIPE.
9. GROUNDSWATER ELAVATION IS ADJUSTED TO BE BELOW THE BOTTOM OF PRECAST STRUCTURE.
10. CONTACT JENSEN STORMWATER SYSTEMS FOR HIGH GROUNDSWATER CONDITIONS.
11. STORMWATER SYSTEMS ARE DESIGNED ALTERNATE CONFIGURATIONS ARE AVAILABLE
12. FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN STORMWATER SYSTEMS.
13. JENSEN STORMWATER SYSTEMS TO PROVIDE ALL MATERIALS AS SHOWN, UNLESS OTHERWISE NOTED.
14. ALL CONCRETE COMPONENT THICKNESSES, DIMENSIONS, AND JOINT DESIGNS MAY VARY FOR
SVBF MANUFACTURING FACILITIES.