**Storm Vault Biofiltration (SVBF) Configuration: Tree Well (-TW)**

**Model: SVBF-TW 6x6**

### Hydraulics
- Storm Water Quality Design Flow (SQDF): XX-X-X CFS
- Storm Drain Design Conveyance Flow: XX-X-X CFS
- Return Equation / Period of Peak Design Conveyance Flow: XX-Y-YG

### Treatment
- Bio Soil Filtration Media: 10'-0" HIR, 193'-0" HIR
- Public Domain Bio Soil Media: 0.1’ GPR, 0.2’ GPR
- Public Domain JENSEN JERDA BLOOM: 150'-0"

### Construction & Installation Notes
1. Contractor to verify all dimensions and elevations in field prior to installation.
2. The connection between the internal drain piping of the SVBF shall be made using connectors conforming to ASTM C651, as made by KOR-CON and LOK, or approved equal and shall be watertight.
3. Construction may also gasket all pipe connections in precast concrete openings in field to ensure watertight connection.
4. All connections shall provide field pour of concrete to the elevations shown on the site drawings as necessary.
5. The connection between the storm drain line and the SVBF shall be made using a resilient connector conforming to ASTM C1061, as made by KOR-CON, LOK, or approved equal and shall be watertight.
6. Vegetation, foundation, subgrade, and materials to be designed by others.
7. Storm pipe shall be installed in accordance with Stormwater Management System for External Surface Flow Collection System.
8. SVBF shall be configured in an open top vault system for rainwater surface flow collection system.
9. Inlets through curb can be located on any side of the box and their dimensions vary per design.

### Materials & Design Parameters
1. All dimensions are integral, inclusive.
2. Concrete shall have a minimum compressive strength f’c = 5,000 psi at 28 days.
3. The Portland cement used in the precast section shall meet the requirements of Type IV High Strength Resistant Cement in accordance with ASTM C 150.
4. All precast concrete components to be manufactured in accordance with AWWA C 150.
5. Mortar shall be placed with a minimum of 2" of clean washed aggregate in each precast component.
6. Mortar shall be used to fill voids in precast components with a minimum of 2" of clean washed aggregate in each precast component.
7. All precast components shall be field poured with clean washed aggregate around entire inside surface of SVBF.
8. Brackets shall be clean and washed.
9. All PVC pipe shall conform to ASTM D 3034 (SDR 21) pipe.
10. Drainage elevation is assumed to be below the bottom of precast structure.
11. Contact JENSEN Stormwater Systems for high groundwater conditions.
12. Primary construction is currently Chain, alternate configurations are readily available.
13. All precast component thicknesses, dimensions, and joint orientations may vary across Jensen Precast manufacturing facilities.
14. All components shall be moisture cured.

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**Plan View**
- Edge of Street
- Tree Well (-TW)
- Tree Grate
- Storm Water Quality Design Flow (SQDF)
- Storm Drain Design Conveyance Flow
- Return Equation / Period of Peak Design Conveyance Flow

**Isometric View**
- Top of Wall
- Cast in Place
- Curb and Grate
- Cast in Place
- Backfill
- Subgrade
- 2” Underdrain surrounded by bridging stone
- Bridging Stone
- 3” Underdrain surrounded by bridging stone
- Curb Inlet
- Plan View
- Face of Curb & Grate Line
- Curb and Grate
- Cast in Place
- Subgrade
- Backfill
- 6” Curb Typ.
- Grate
- Bridging Stone
- Cast in Place
- Underdrain
- 2” Underdrain
- Grate
- Bridging Stone
- Cast in Place