


NOTES:

1. Install downspouts and other conveyance connections (e.g. scupper, channel, overhead runnel) from building to drain above design ponding elevation. Refer to applicable City building codes for conveyance connection requirements. Diffuser or other method of energy dissipation may be required based on drainage area.
2. Penetrations through facility wall shall be watertight and shall prevent preferential flow into utility trenches (e.g. water stop, trench block, or trench collar), as appropriate.
3. Geomembrane liner per SWMM BMP L630 and shall be PVC with a minimum thickness of 30 mils and in accordance with ASTM D7176. Seams shall be waterproof. Waterproof liner to extend to top of freeboard / overflow elevation. Waterproofing at buildings per Architect / Engineer.
4. Liner secured at top per manufacturer. All seams to be sealed and waterproof per manufacturer and all penetrations to be booted. Liner shall be installed and seamed to create a watertight installation to top of freeboard.
5. Provide geotextile under PVC liner to protect liner if recommended by liner manufacturer. Geotextile per liner manufacturer.
6. Freeboard minimum (2" or 6") varies with tributary area. For freeboard, ponding depth, and overflow requirements, see SWMM BMP L630. Overflow grate per plans, see Std. Plan GSI-13 or GSI-14.
7. See Std. Plan GSI-06c(1) for Plan View. See Std. Plans GSI-06d and GSI-06e for structural details.
8. Planter Walls:
 - A. Material shall be stone, brick, concrete, wood, or other durable material (no chemically treated wood).
 - B. Concrete, brick, or stone walls shall be included on foundation plans for new building construction.
 - C. Planter wall design per Engineer/Architect and shall meet ACI 350 or 318.
 - D. Provide wall at building face in cases where gap is required between wall and planter or where building facade is incompatible with planter configuration.
9. Expansion joints per SU-04 to be provided between sidewalks and walls.
10. This detail has been prepared for new construction (building foundation and footing drain are schematic). If project is a retrofit, Engineer to review existing building conditions and modify accordingly.
11. Aggregate per WSDOT 9-03.12(4) Gravel Backfill for Drains. Underdrain pipe, 4" min. Ø slotted PVC per ASTM D1785 Sch. 40. Slots per SWMM BMP L630. Slope pipe at 0.5% min. unless otherwise specified.
12. Cobbles shall be 6" or 8" cobbles per WSDOT 9-03.11(2). Cobbles 10" thick, 12" x 12" min. pad.
13. See Std. Plan GSI - 06c(1) for Plan View.

<p><i>DCS</i> PUBLIC WORKS</p> <p><i>NA</i> TACOMA POWER</p>	<p>REVIEWED BY <i>GMS</i></p> <p>ENVIRONMENTAL SERVICES</p> <p><i>NA</i> TACOMA WATER</p>		<p>APPROVED FOR PUBLICATION</p> <p><i>[Signature]</i> 4/4/12 CITY ENGINEER DATE</p>	<p>CITY OF TACOMA BIORETENTION PLANTER ADJACENT TO BUILDING - SECTION VIEW</p> <p>STANDARD PLAN NO. GSI-06c(5)</p>
--	---	---	---	--