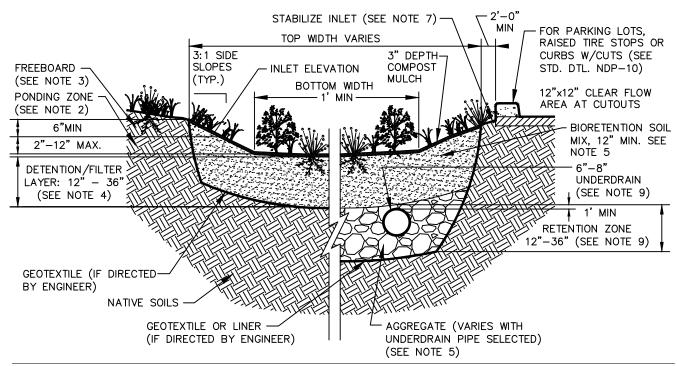
WITHOUT UNDERDRAIN

WITH UNDERDRAIN



NOTES:

1. PROVIDE PROTECTION FROM ALL VEHICLE TRAFFIC, EQUIPMENT STAGING, AND FOOT TRAFFIC IN PROPOSED INFILTRATION AREAS PRIOR TO, DURING, AND AFTER CONSTRUCTION.

2. DIMENSIONS:

- A. PONDING ZONE (FROM TOP OF GROWING MEDIUM TO OVERFLOW ELEVATION); 2"-6" MINIMUM AND 12" MAXIMUM DEPENDING ON INFILTRATION RATE AND DEVELOPMENT TYPE.
- B. FLAT BOTTOM WIDTH: 1' MINIMUM.
- C. PLANTED SIDE SLOPES OF BASIN: 2.5:1 MAXIMUM ADJACENT TO SIDEWALK, 4:1 MAXIMUM FOR SHEET FLOW INLET.

3. OVERFLOW:

- A. OVERFLOW REQUIRED (PIPE OR OVERLAND) SEE STANDARD DETAIL'S NDP-6, 7 & 8.
- B. INLET ELEVATION MUST ALLOW FOR 6" OF FREEBOARD, MINIMUM.
- C. PROTECT OVERFLOW INLET FROM DEBRIS AND SEDIMENT WITH STRAINER OR GRATE (PIPE ONLY).
- D. DISCHARGE PER CITY OF BELLEVUE ENGINEERING STANDARDS.
- 4. BIORETENTION SOIL MIX:
 - A. 18" MINIMUM DEPTH, FOR ON-SITE STORMWATER MANAGEMENT (MR 5) OR RUNOFF TREATMENT (MR 6).
 - B. 12" MINIMUM DEPTH FOR FLOW CONTROL. C. COMPACT SUBSOILS MUST BE SCARIFIED TO
 - 6" BELOW THE BIORETENTION SOIL LAYER.
- 5. SEE CHAPTER D6-05 FOR ALL MATERIALS AND SPECIFICATIONS.

6. VEGETATION:

- A. FLOOR OF PLANTING ISLAND SHOULD BE PLANTED WITH ZONE 1 HERBACEOUS, EMERGENTS, SHRUBS, AND GROUND COVER. SEE APPENDIX 1 IN THE LID TECHNICAL GUIDANCE MANUAL FOR PUGET SOUND (2012 OR AS AMENDED).
- B. SIDE SLOPES SHOULD BE PLANTED WITH ZONE 2 OR 3 PLANTS.
- C. USE AT LEAST 3 SPECIES OF EACH PLANT COVER TYPE, NOT INCLUDING TREES.
- 7. INSTALL APPROXIMATELY 6" THICK LAYER WASHED DRAIN ROCK OR STREAMED COBBLE PER WSDOT 9-03.11(2) (2"-4" MIN) TO TRANSITION FROM INLET OR SPLASH PAD TO BIORETENTION SOIL MIX TO DISSIPATE ENERGY AND/OR DISPERSE FLOW.
- 8. INSTALL OBSERVATION PORT PER STANDARD DETAIL NDP-9, IF FLOW CONTROL (MR 7) AND OR RUNOFF TREATMENT (MR6) IS REQUIRED.
- RETENTION ZONE OPTIONAL REQUIRED WITH UNDERDRAIN AND IF NATIVE SOIL INFILTRATION RATE IS LESS THAN 0.3"/HOUR. SEE STANDARD DETAIL NDP-3, DETAIL A.



STORM AND SURFACE WATER UTILITY

TITLE

BIORETENTION CELL

NDP-2 NO.

NO SCALE

JANUARY 2017