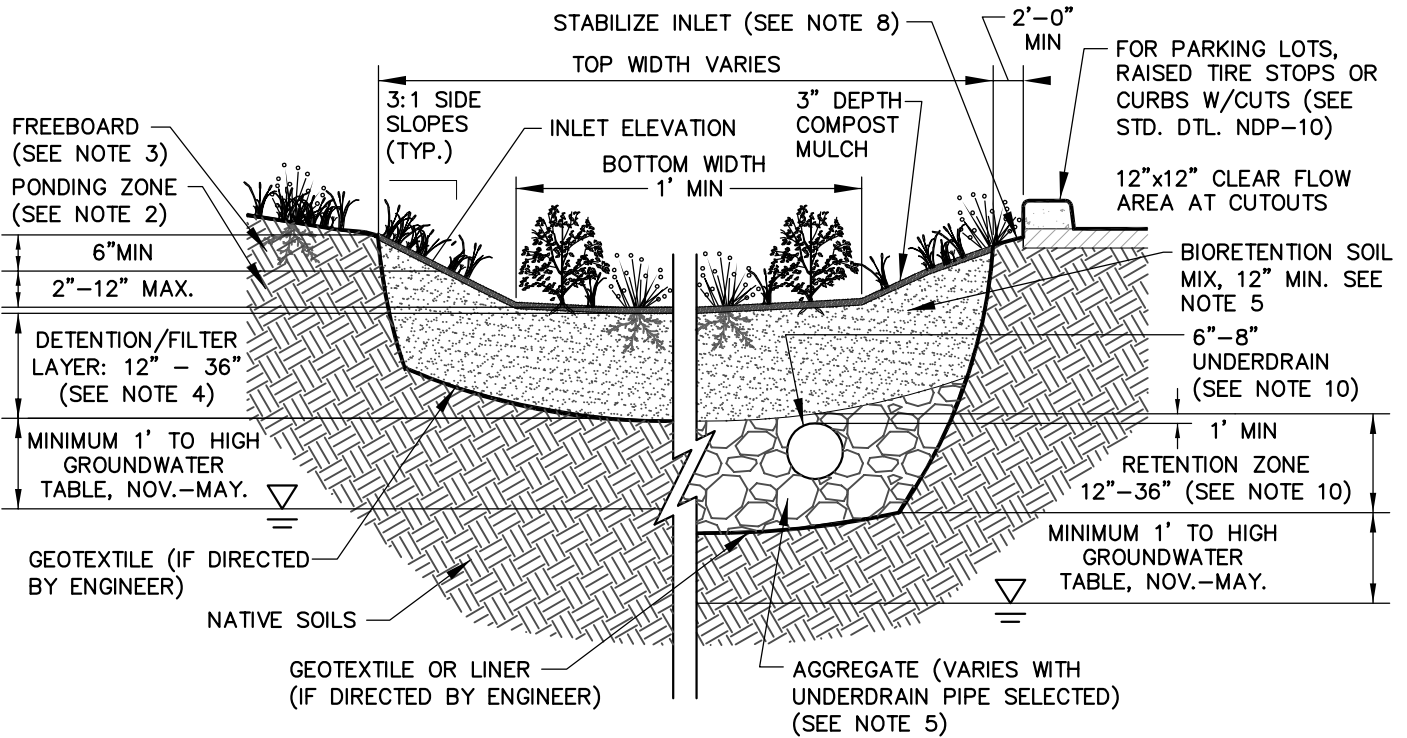


WITHOUT UNDERDRAIN

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 DETAILS 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 MR 5 ONLY OR RUNOFF TREATMENT.
 - B. 12" MINIMUM DEPTH FOR FLOW CONTROL.
 - C. COMPACT SUBSOILS MUST BE SCARIFIED TO 6" BELOW THE BIORETENTION SOIL LAYER.
5. SEE CHAPTER D6-04 HEREIN FOR ALL MATERIALS AND SPECIFICATIONS.
6. GEOTECHNICAL ANALYSIS AND STORM DRAINAGE REPORT REQUIRED PER SUBMITTAL REQUIREMENTS, CHAPTER D2 HEREIN.
7. VEGETATION:
 - A. FLOOR OF PLANTING ISLAND SHOULD BE PLANTED WITH ZONE 1 TREES, SHRUBS AND GROUND COVER. SEE APPENDIX 3 IN THE *LID TECHNICAL GUIDANCE MANUAL FOR PUGET SOUND* (JANUARY 2005, OR AS AMENDED) OR "*RAIN GARDEN HANDBOOK FOR HOMEOWNERS*" FOR A PLANT LIST.
 - 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.
8. 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.
9. INSTALL OBSERVATION PORT PER STANDARD DETAIL NDP-9, IF FLOW CONTROL (MR7) AND OR RUNOFF TREATMENT (MR6) IS REQUIRED.
10. RETENTION ZONE OPTIONAL - REQUIRED WITH UNDERDRAIN AND IF NATIVE SOIL INFILTRATION RATE IS LESS THAN 0.25"/HOUR. SEE NDP CHAPTER AND STANDARD DETAIL NDP-3, DETAIL A.



City of
Bellevue

STORM AND SURFACE
WATER UTILITY

TITLE

BIORETENTION CELL