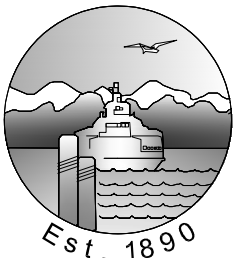


NOTES:

1. SCARIFY SUBGRADE 3" (MIN) BEFORE BIORETENTION SOIL MEDIA (BSM) INSTALLATION.
2. BSM SHALL CONFORM TO 2022 CITY OF EDMONDS STORMWATER ADDENDUM (CHECKLIST 10) SPECIFICATIONS.
3. BSM PLACEMENT, GRADING, AND CONSOLIDATION SHALL NOT OCCUR WHEN THE BSM IS EXCESSIVELY WET, OR HAS BEEN SUBJECTED TO MORE THAN 1/2 INCH OF PRECIPITATION WITHIN 48 HOURS PRIOR TO PLACEMENT. EXCESSIVELY WET IS DEFINED AS BEING AT OR ABOVE 22 PERCENT SOIL MOISTURE BY A GENERAL TOOLS & INSTRUMENTS DSMM500 PRECISION DIGITAL SOIL MOISTURE METER WITH PROBE (OR EQUIVALENT). THERE SHOULD BE NO VISIBLE FREE WATER IN THE MATERIAL.
4. PLACE BSM LOOSELY WITH A CONVEYOR BELT OR WITH AN EXCAVATOR OR LOADER FROM A HEIGHT OF 6 FEET OR LESS (I.E., DO NOT DUMP MATERIAL DIRECTLY FROM TRUCK INTO CELL). COMPACT BSM USING NON-MECHANICAL COMPACTION METHODS (E.G., BOOT PACKING, HAND TAMPING, OR WATER CONSOLIDATION) TO 83 PERCENT (+/- 2%) OF THE MAXIMUM DRY DENSITY PER MODIFIED PROCTOR TEST (ASTM D1557).
5. MINIMUM DEPTH TO GROUNDWATER OR HYDRAULICALLY RESTRICTIVE LAYER VARIES BY CONTRIBUTING AREA. SEE 2022 CITY OF EDMONDS STORMWATER ADDENDUM (CHECKLIST 10).
6. TRANSITION ZONE SHALL BE 2' (MIN) FOR LOCAL AND COLLECTOR STREETS AND 4' (MIN) FOR ARTERIALS. PROVIDE 2.5' (MIN) TRANSITION ZONE WHERE ADJACENT TO PARALLEL PARKING.
7. TRANSITION ZONE SOIL SHALL BE UNDISTURBED NATIVE OR APPROVED SOIL COMPACTED TO 95% MAXIMUM DRY DENSITY PER MODIFIED PROCTOR TEST (ASTM D1557).
8. SLOPE PIPE AT 0.5% MIN, UNLESS OTHERWISE SPECIFIED. PROVIDE ONE CLEANOUT MIN PER 100 FEET OF UNDERDRAIN LENGTH, AND AT EACH END. MATCH CROWN ELEVATION OF UNDERDRAIN TO OVERFLOW PIPE, UNLESS SPECIFIED OTHERWISE.
9. IMPERMEABLE LINER SHALL BE HDPE CONFORMING TO GEOSYNTHETIC RESEARCH INSTITUTE (GRI) GM 13 OR LLDPE CONFORMING TO GRI GM 17.



CITY OF EDMONDS
PUBLIC WORKS
DEPARTMENT

**BIORETENTION SECTION
WITH UNDERDRAIN**

APPROVED BY: R. ENGLISH

REVISION DATE
SEPTEMBER 2023

STANDARD
DETAIL
SD-613