



SUGGESTED MIN. PLANTING MEDIUM DEPTH 36" WITH A WELL BLENDED MIXTURE (BY VOLUME):
 80% GRANULAR MATERIAL AND
 20% ORGANIC COMPOST

NOTES:

1. THE PROJECT AREA MUST BE STAKED OFF AND MARKED TO KEEP ALL CONSTRUCTION TRAFFIC, EQUIPMENT AND MATERIAL STOCKPILES OUT OF THE PROPOSED INFILTRATION AREAS
2. INFILTRATION PRACTICES SHALL NOT BE EXCAVATED UNTIL THE CONTRIBUTING DRAINAGE AREAS WITH EXPOSED SOIL HAVE BEEN FULLY STABILIZED AND BITUMINOUS BASE COURSE INSTALLED ON CONTRIBUTING PAVEMENT AREAS. DIVERT UPLAND DRAINAGE AREAS TO PREVENT RUNOFF FROM ENTERING THE EXCAVATED CELL OR INTO THE WORK AREA. DO NOT USE INFILTRATION CELLS AS TEMPORARY SEDIMENT BASINS OR ALLOW CONSTRUCTION RUNOFF INTO THE CELL.
3. CARE MUST BE TAKEN TO AVOID CONTAMINATION OF ENGINEERED SOILS WITH SEDIMENT, IN-SITU OR TOPSOIL DURING AND AFTER INSTALLATION. MATERIALS MUST BE SEGREGATED.
4. INSTALLATION WITH DRY SOIL CONDITIONS IS CRITICAL TO PREVENT SMEARING AND COMPACTION.
5. USE BACKHOE WITH TOOTH BUCKET FOR CELL EXCAVATION TO AVOID COMPACTION OR SMEARING OF SOILS. (DO NOT USE SKID STEER FOR EXCAVATION WITHIN THE CELL) USE TOOTH BUCKET TO SCARIFY (RIP) UNDERLYING SOILS 6" TO 9" DEEP TO REMOVE COMPACTION. GENTLY MIX THE FIRST LIFT OF ENGINEERED SOILS WITH THE LOOSENED UNDERLYING SOILS TO AVOID STRATIFICATION AND PROMOTE PERMEABILITY. USE EXCAVATOR BUCKET TO PLACE MATERIALS. CONSTRUCTION EQUIPMENT SHALL NOT BE ALLOWED INTO BASIN. LEVELING AND FINAL GRADING WITHIN THE CELL MUST BE COMPLETED BY HAND.
6. THE SIDE SLOPES OF THE INFILTRATION CELL SHALL BE 3H:1V OR FLATTER.
7. REPLACEMENT ENGINEERED SOIL SHALL BE MINNESOTA STORMWATER MANUAL 4.1.2 MIX B: ENHANCED FILTRATION BLEND (WELL BLENDED MIXTURE OF 60% ASTM C-33 COARSE WASHED SAND (MNDOT 3126) AND 40% MNDOT 3890 GRADE 2 LEAF LITTER COMPOST. THE MATERIAL SUPPLIER SHALL PROVIDE DOCUMENTATION THAT THE COMPOST HAS BEEN SAMPLED AND TESTED AS REQUIRED BY THE SEAL OF TESTING ASSURANCE (STA) PROGRAM OF THE UNITED STATES COMPOSTING COUNCIL (USCC) AND A GRADATION SIEVE ANALYSIS FOR THE WASHED SAND. THE ENGINEERED SOILS SHALL NOT CONTAIN ANY TOPSOIL OR FILTER AGGREGATE WITH FINES.
8. KEEP INFILTRATION SYSTEMS OFF-LINE BY RESTRICTING STORMWATER INFLOW UNTIL VEGETATION IS WELL ESTABLISHED IN THE CELL AND ALL UP GRADIENT AREAS HAVE BEEN STABILIZED AND IMPERVIOUS SURFACES CLEARED OF CONSTRUCTION SEDIMENT.



INFILTRATION FACILITY
 CROSS-SECTION

PLATE NO. LV-STM-30

DATE 02/2024