



ENGINEERED SOIL SPECIFICATION

1. ENGINEERED SOIL MIX WILL ADHERE TO 621-DPW-002, CONSISTENT WITH THE FOLLOWING:
 - A. 60% WASHED INDOT NO. 23 SAND, 20% TOPSOIL, AND 20% COMPOST MULCH BY VOLUME.
 - B. THE TEXTURE OF THE ENGINEERED SOIL IS LOAMY SAND OR SANDY LOAM ACCORDING TO THE USDA SOIL CLASSIFICATION SYSTEM.
 - C. MINIMUM LONG-TERM INFILTRATION RATE OF 2.0 INCHES/HOUR PER ASTM D2434.
2. ENGINEERED SOIL MAY BE OBTAINED OFF SITE OR CREATED BY TESTING NATIVE SOILS AND MIXING WITH IMPORTED MATERIALS AS NEEDED TO ACHIEVE SPECIFICATIONS.
3. ENGINEERED SOIL SHOULD BE MIXED UNIFORMLY AND ITS CHARACTERISTICS SHALL BE VERIFIED BY MATERIALS TESTING PRIOR TO PLACEMENT.
4. TO PRESERVE INFILTRATION CAPACITY OF NATIVE SOIL, KEEP MACHINERY OUTSIDE OF THE EXCAVATED HYBRID DITCH AREA.
5. PLACE UNSATURATED SOIL IN 8-12 INCH LIFTS. DO NOT PLACE IF SATURATED. OVERFILL THE AREA WITH ENGINEERED SOIL BY 5% TO ALLOW FOR SETTLEMENT.
6. RESTORE DISTURBED AREAS BEYOND THE TRENCH EXCAVATION WITH TOPSOIL AND SEEDING. MATCH GRADES AND PROVIDE POSITIVE SLOPE TO HYBRID DITCH.
7. AVOID OVER COMPACTION BY ALLOWING TIME FOR NATURAL SETTLEMENT. IF THE PROJECT SCHEDULE DOES NOT ALLOW FOR THIS, COMPACTION BY SOAKING IS RECOMMENDED. COMPACT THE FILTER SOIL MATRIX BY SOAKING AS DESCRIBED BELOW:
 - A. APPLY WATER TO UNIFORMLY SATURATE SURFACE BY SPRAYING OR SPRINKLING.
 - B. ENSURE ENTIRE HYBRID DITCH AREA IS SATURATED.
 - C. ADD ENGINEERED SOIL AS REQUIRED TO RESTORE SETTLED SURFACE TO FINISHED ELEVATION.
 - D. COMPACT TO 85% MAXIMUM DENSITY PER ASTM D698.

HYBRID DITCH TYPICAL SECTION > 5' DEPTH

Scale: NONE