ENGINEERING PROPERTIES:
1. COMPRESSIVE STRENGTH OF TT24 PAVER:
   - EMPTY PAVER: ULTIMATE LOAD = 86,563 LBS / 601 PSI
   - FILLED PAVER: ULTIMATE LOAD = 400,000 LBS
2. POROSITY OF AASHTO #57 AGGREGATE = 0.4

TOP SOIL FILL:
3. NDS RECOMMENDS NATIVE TOP SOIL FOR BACKFILL INSIDE THE PAVERS.
4. EXTEND TOP SOIL INSIDE PAVER AN ADDITIONAL ¼ TO ½ INCH ABOVE PAVER SURFACE AND MATCH SURROUNDING GRADE. PROPOSED
   FINISHED GRADE SLOPE PER PROJECT GRADING PLAN. PROTECT PAVER AREA UNTIL GRASS IS SUFFICIENTLY ESTABLISHED TO HANDLE
   TRAFFIC. PROVIDE 1” (MIN.) CLEARANCE BETWEEN ANY CONCRETE EDGE AND PAVER.
5. GRASS PAVERS ARE TO BE USED FOR AREAS OF PEDESTRIAN USE AND OCCASIONAL VEHICULAR TRAFFIC USE (E.G., OVERFLOW PARKING
   AND EMERGENCY VEHICLE/FIRE LANES).

AASHTO #57 BASE ROCK:
6. GRADATION OF AASHTO #57 COARSE BASE ROCK: 100% PASSING 1 ½” SCREEN, 95-100% PASSING 1”, 25-80% PASSING ½”, AND
   0-10% PASSING #6 SCREEN.
   OPTIONAL: ADD PULVERIZED NATIVE TOP SOIL EQUAL TO 15% OF TOTAL VOLUME. BLEND TO OBTAIN HOMOGENEOUS MIXTURE PRIOR TO
   PLACEMENT.
7. THICKNESS OF AGGREGATE LAYER IS AS FOLLOWS: NO BASE REQUIRED FOR EROSION CONTROL AND PEDESTRIAN-ONLY LOADS
   (COMPACTION OF NATIVE SOIL RECOMMENDED FOR SLOPES UP TO 3%); 4 INCHES FOR LIGHT LOADS (GOLF CARTS); 6 INCHES FOR MEDIUM
   LOADS (CARS AND PICKUP TRUCKS); 8 INCHES FOR HEAVY LOADS (FIRE TRUCKS).
8. COMPACT WITH ONE TO THREE PASSES OF 5-TON STEEL WHEEL ROLLER. SINCE IT IS DIFFICULT TO MEASURE DENSITY OF COARSE
   AGGREGATE, APPROACH OF REQUIRING A FIXED DENSITY IS NOT APPLICABLE.

FILTER FABRIC (OPTIONAL):
9. FILTER FABRIC MAY BE USED TO PREVENT MIGRATION OF FINES FROM SURROUNDING NATIVE SOILS INTO COARSE AGGREGATE LAYER.
   THE FABRIC PREVENTS CLOGGING OF AGGREGATE LAYER AND EXTENDS ITS USEFUL LIFE. USE OF FILTER FABRIC IS STRONGLY
   RECOMMENDED AROUND EDGE DRAIN.
10. NDS RECOMMENDS NON-WOVEN NEEDLE-PUNCHED GEOTEXTILE. WOVEN GEOTEXTILES SHOULD NOT BE USED.
11. USE FILTER FABRIC WITH AOS <0.60 MM FOR NATIVE SOILS WITH 50% OR LESS PARTICLES BY WEIGHT PASSING NO.200 SIEVE. USE FILTER
    FABRIC WITH AOS <0.30MM FOR NATIVE SOILS WITH 50% OR GREATER PARTICLES BY WEIGHT PASSING THE NO.200 SIEVE.

UNDERDRAIN:
12. NDS RECOMMENDS UNDERDRAIN TO COLLECT PERCOLATED WATER AND CONVEY TO PROJECT STORMWATER FACILITY FOR NATIVE SOIL
    THAT IS NRCS HYDROLOGIC SOIL GROUP C OR D (LOW INFILTRATION RATES). UNDERDRAIN IS OPTIONAL FOR SOIL GROUP B (MODERATE
    INFILTRATION) AND CAN BE ELIMINATED FOR SOIL GROUP A (GOOD INFILTRATION).
13. USE MINIMUM 4-INCH DIA PERFORATED PVC OR POLYETHYLENE PIPE AT 250-FT CENTERS; MINIMUM ONE PIPE. PIPE TO BE INSTALLED AT
    MINIMUM 0.5% SLOPE. RECOMMENDED 2 SQ. INCHES OF OPENING / LINEAR FOOT.
14. UNDERDRAIN TO DAYLIGHT INTO PROJECT STORMWATER FACILITY (CATCH BASIN / OPEN CHANNEL / BASIN).
15. INVERT OF PIPE RECOMMENDED TO BE ABOVE PROJECT HIGH WATER LEVEL TO PREVENT BACKING-UP OF WATER INTO PAVER SYSTEM.
16. UNDERDRAIN TO BE SURROUNDED BY 4" OF AASHTO #57 COARSE AGGREGATE, WITH MIN. 2" BEDDING.

SUBGRADE NATIVE SOIL:
17. COMPACT SUBGRADE NATIVE SOILS 90 TO 95% STANDARD PROCTOR DENSITY PER ASTM D696 FOR SOILS WITH CALIFORNIA BEARING RATIO
    >20%, R VALUE >30, AASHO A-1, A-2, AND A-3 SOILS. LOWER COMPACTION LEVELS PROMOTE INFILTRATION THROUGH SOIL.
18. NDS RECOMMENDS THAT ENGINEER-OF-RECORD CONSIDER HIGHER LEVEL OF COMPACTION FOR CBR 5 TO 20%, R-VALUE 10 TO 30,
    AASHTO A-4 SOILS FOR HEAVY LOADS WHERE INFILTRATION INTO NATIVE SOILS IS NOT A REQUIREMENT.
19. NDS RECOMMENDS THAT ENGINEER-OF-RECORD CONSULT WITH PROJECT GEOTECHNICAL ENGINEER FOR POTENTIAL SOIL MODIFICATION
    (E.G., LIME TREATMENT) AND COMPACTION LEVEL FOR CBR <5% AND R-VALUE <10, AASHTO A-5, A-6, AND A-7 SOILS.

http://www.ndspro.com
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TT24 TUFF TRACK
ENGINEERED PERMEABLE PAVER
GRASS SURFACE