

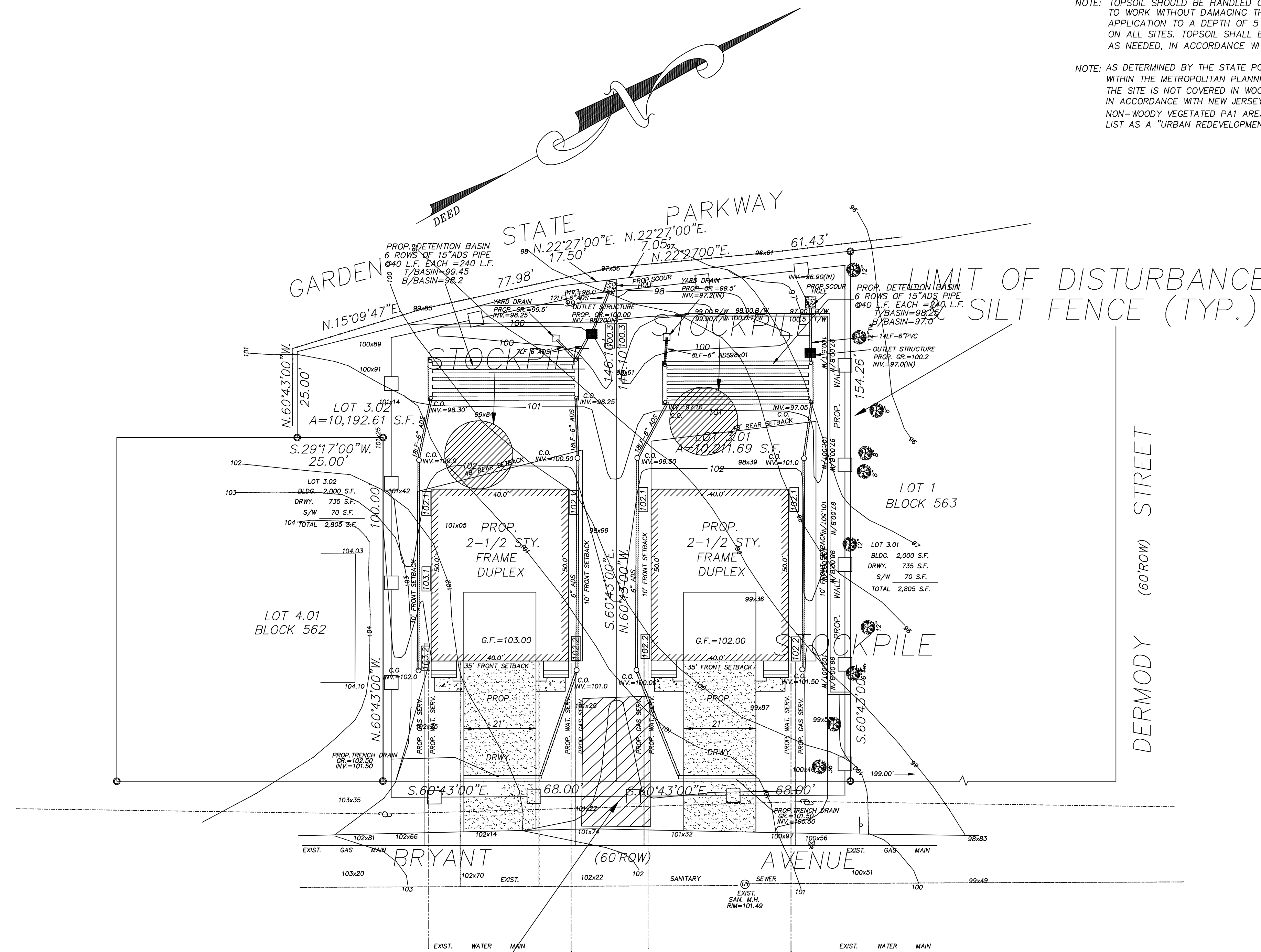
SOIL EROSION AND SEDIMENT CONTROL NOTES

NOTE: APPLY LIQUID MULCH-BINDER ANCHOR AS SPECIFIED IN "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL SEC. 4-4A.4 a & b OR AS DIRECTED BY S.C.D.

NOTE: TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE; A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARDS FOR TOPSOILING.

NOTE: AS DETERMINED BY THE STATE POLICY MAP, THE PROJECT AREA FALLS WITHIN THE METROPOLITAN PLANNING AREA (PA1), UNDER EXISTING CONDITIONS, THE SITE IS NOT COVERED IN WOODY VEGETATION NOR REGROWTH, IN ACCORDANCE WITH NEW JERSEY STANDARD FOR LAND GRADING revised 2017), NON-WOODY VEGETATED PA1 AREAS FALL UNDER THE SOIL COMPACTION EXEMPTION LIST AS A "URBAN REDEVELOPMENT" AND IS DEFINED BY NJDEP AS PREVIOUSLY DEVELOPED.

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN THIRTY (30) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- PERMANENT VEGETATION TO BE SEED OR SODDEN ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCHING IS REQUIRED ON ALL SEEDING WHEN HYDRASEEDING, MULCH SHALL NOT BE INCLUDED IN THE TANK WITH THE SEED.
- ALL WORK TO BE DONE IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL OF NEW JERSEY.
- A SUBBASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUBBASE SHALL BE INSTALLED WITHIN FIFTEEN (15) DAYS OF THE PRELIMINARY GRADING.
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES (I.E. SLOPES GREATER THAN 3:1).
- THE STANDARDS FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A STONE PAD OF 1 1/2" STONE, AT ALL CONSTRUCTION DRIVEWAYS, IMMEDIATELY AFTER INITIAL SITE DISTURBANCE.
- IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVER WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDING PREPARATION AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL HAVING A PH OF 5 OR MORE.
- THE SOMERSET-UNION SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED IN WRITING SEVENTY-TWO (72) HOURS IN ADVANCE OF ANY LAND DISTURBANCE ACTIVITY.
- AT THE TIME THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NONVEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- IN THAT N.J.S.A. 42A-39 ET SEQ. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR SOIL EROSION CONTROL HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES; ALL SITE WORK FOR SITE PLANS AND ALL WORK AND INDIVIDUAL LOTS IN SUBDIVISIONS, WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
- CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED DUTYFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
- ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RECERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
- UNFILTERED DEWATERING IS NOT PERMITTED. TAKE ALL NECESSARY PRECAUTIONS DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH STATE STANDARDS.
- SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL.
- ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR UNTO PUBLIC RIGHTS-OF-WAY WILL BE REMOVED IMMEDIATELY.
- THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENT THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
- STOCKPILE AND STAGING LOCATIONS DETERMINED IN THE FIELD, SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. STAGING AND STOCKPILES NOT LOCATED WITHIN THE LIMIT OF DISTURBANCE WILL REQUIRE CERTIFICATION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN. THE DISTRICT RESERVES THE RIGHT TO DETERMINE WHEN CERTIFICATION OF A NEW AND SEPARATE SOIL EROSION AND SEDIMENT PLAN WILL BE REQUIRED FOR THESE ACTIVITIES.
- ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #2. REMOVED IMMEDIATELY.



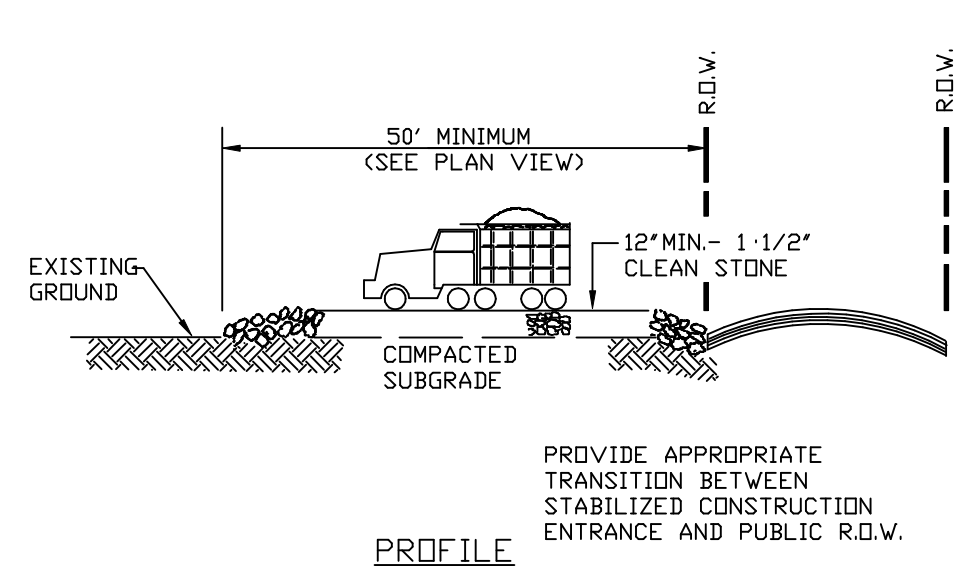
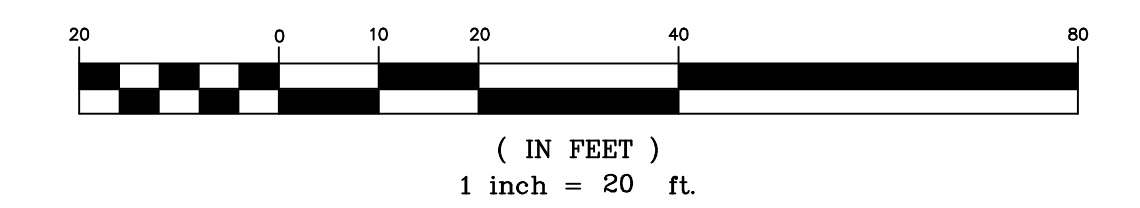
SEQUENCE OF CONSTRUCTION

- INSTALLATION OF SEDIMENT FABRIC PRIOR TO ANY LAND DISTURBANCE. 3/28 - 3/29/2021
- APPLICATION OF PROPER MEASURES FOR THE CONTROL OF SOIL EROSION AND SEDIMENT CONTROL INCLUDING THE STAKING OF SILT FENCE SEDIMENT BARRIER WHERE SHOWN ON THE PLANS. 3/28 - 3/29/2021
- CONSTRUCT VEHICLE WHEEL-CLEANING BLANKET WHERE CONSTRUCTION TRAFFIC ENTERS PAVED ROADWAYS.
- SITE GRADING, CLEARING SITE, SUBGRADE ROAD AREAS AS SHOWN ON THE GRADING PLANS WITH APPROPRIATE EROSION CONTROL FACILITIES.
- PROVIDE AND INSTALL TEMPORARY STABILIZATION MEASURES AS REQUIRED.
- CONSTRUCTION OF VARIOUS DRAINAGE FACILITIES AND IMPROVEMENT IN ROADWAYS AND INSTALLATION OF EROSION CONTROL MEASURES OR DRAINAGE STRUCTURES.
- INSTALLATION OF BLOCK CURBS AND SUB-BASE COURSE AS PER PLAN.
- MAINTENANCE OF SOIL EROSION AND SEDIMENT CONTROL.
- CONSTRUCTION OF VARIOUS DRAINAGE FACILITIES AND IMPROVEMENT IN THE UNPAVED AREAS USING EROSION CONTROL MEASURES.
- REGRADING AND STABILIZATION OF LAWN AND BERM AREAS.
- REMOVAL OF SOIL EROSION AND SEDIMENT CONTROL FACILITIES WHEN PERMANENT EROSION CONTROL MEASURES ARE ACCEPTED BY THE TOWNSHIP ENGINEER. 3/28 - 10/20/2021

SEEDING SCHEDULE

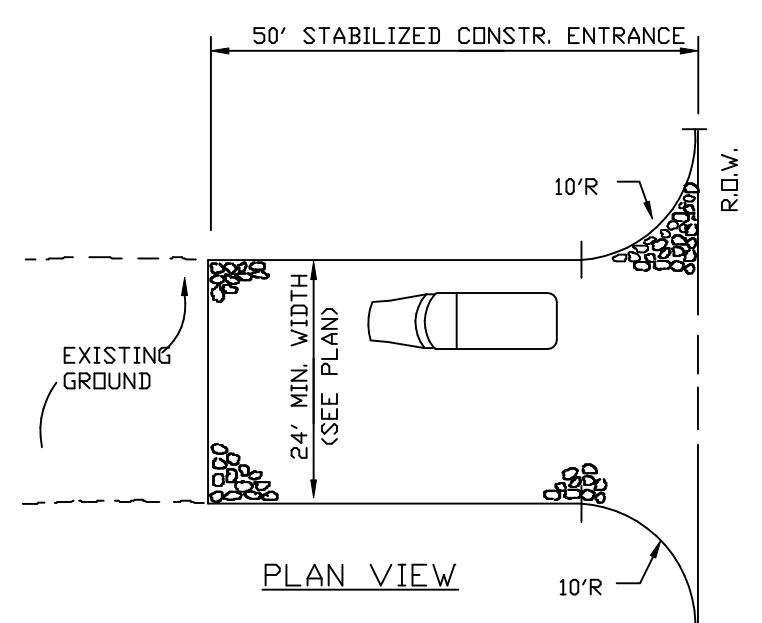
- GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING AND MULCH APPLICATION.
- TEMPORARY SEEDING SHALL CONSIST OF EITHER:
 KEEPING LOVEGRASS @ 2 LBS/1000 SQ. FT. (MAY 1 - AUG. 15)
 DATS @ 2 LBS/1000 SQ. FT. (FEB. 15 - MAY 1 AND AUG. 15 - OCT. 15)
 RYEGRASS ANNUAL @ 1 LB/1000 SQ. FT. (FEB. 15 - MAY 1 AND AUG. 15 - OCT. 15)
 OPTIMUM SEEDING DEPTH IS 0.5 INCH.
- MULCH MATERIAL SHOULD BE UNROTTED SALT HAY, HAY OR SMALL GRAIN STRAW AT THE RATE OF TWO (2) TONS PER ACRE, OR 70 TO 90 POUNDS PER 1000 SQUARE FEET.
- SUBSOIL SHOULD BE TESTED FOR LIME REQUIREMENT AND LIMESTONE, IF NEEDED, SHOULD BE APPLIED TO BRING SOIL PH TO 6.5 AND INCORPORATED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES. APPLY FERTILIZER AT A RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER SQUARE FEET USING 10-20-10 OR EQUIVALENT.
- REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, LUMPS OR ANY OTHER UNSUITABLE MATERIAL.
- PERMANENT GROUND COVER OF SODDING OR SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE OR APPROVED EQUAL:
 SPREADING FESCUE @ 0.7 LBS/1000 SQ. FT.
 CHEVINGS RED FESCUE @ 0.7 LBS/1000 SQ. FT.
 KENTUCKY BLUE GRASS @ 0.7 LBS/1000 SQ. FT.
 (LDW MAINTENANCE VARIETY)
 OPTIMUM SEEDING DATES SHALL BE FEB 15 - MAY 1 AND AUG 15 - OCT 15 SEED TO A DEPTH OF 0.5 INCH.
- IN RETENTION POND AREA USE KY-31 TALL FESCUE AT 3 POUNDS/1000 SQUARE FEET WITH RYEGRASS AT 1 POUND/100 SQUARE FEET.
- THE SEEDING SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG.

GRAPHIC SCALE

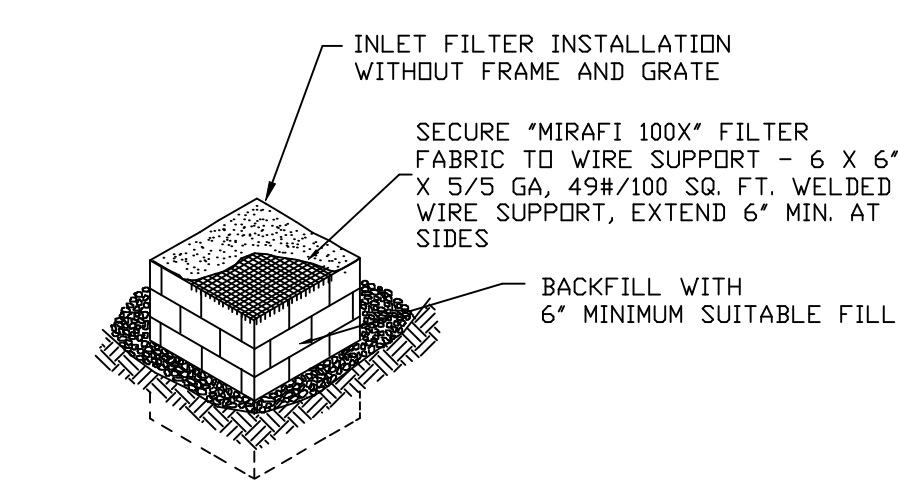


VEHICLE WHEEL-CLEANING BLANKET

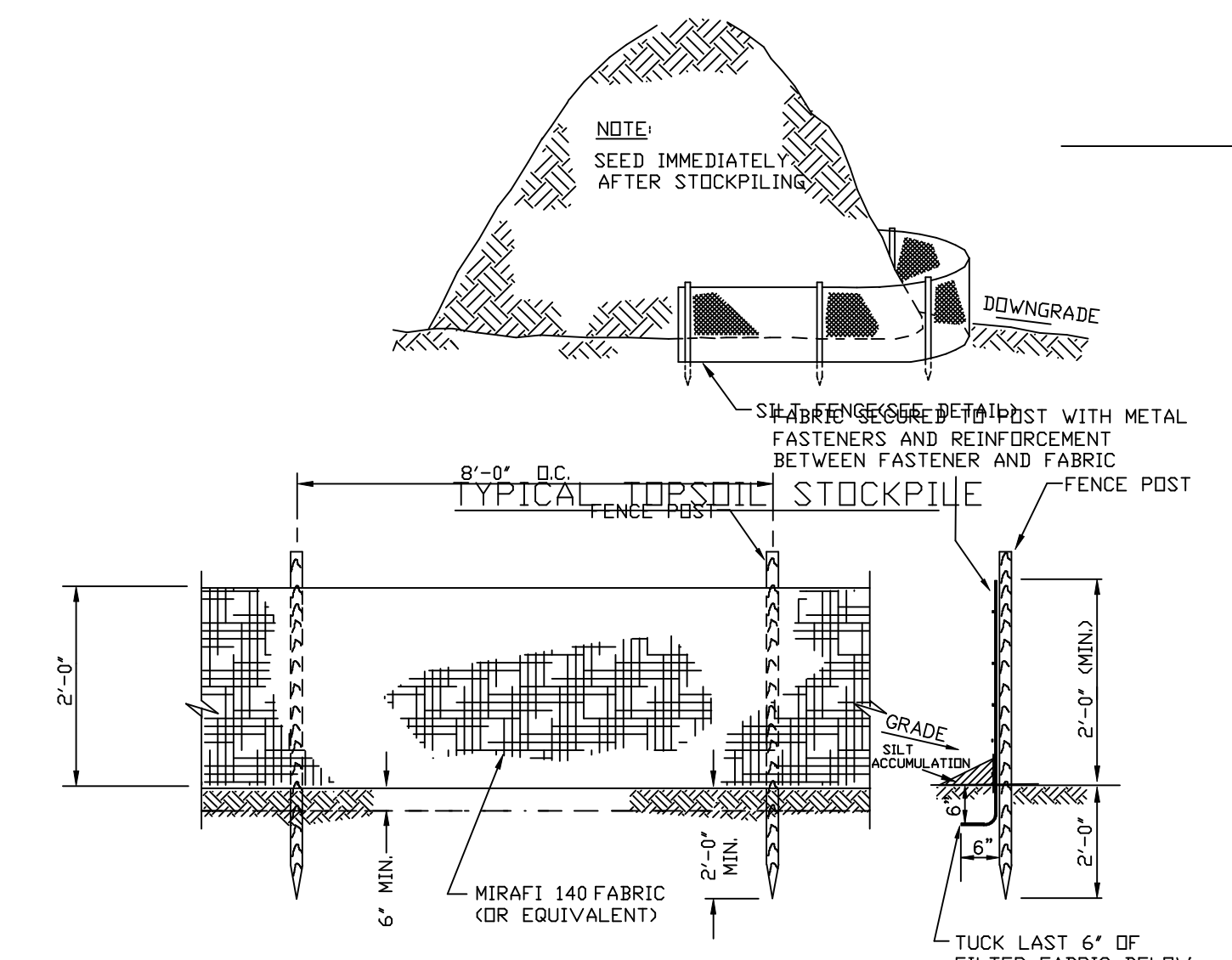
PROVIDE TRACKING STRIP WHERE CONSTRUCTION TRAFFIC ENTERS PAVED AREAS FROM UNPAVED AREAS.



PLAN VIEW



TRENCH INLET PROTECTION



TEMPORARY SILTATION CONTROL FENCE

NOTE: ALL SILT FENCE WILL BE INSPECTED AND REMEDIAL MAINTENANCE PERFORMED BY THE CONTRACTOR WITHIN 24 HOURS AFTER EACH RAIN.

PREPARED BY:
EDWARD S. DEC

REVISIONS	DATE
1	June 14, 2021
2	June 23, 2021
3	Aug 23, 2021

SOIL EROSION CONTROL PLAN OF
127 BRYANT AVENUE
TOWNSHIP OF CRANFORD,
UNION COUNTY, NEW JERSEY
 BEING ALSO KNOWN AS LOTS 1.01, 2, 3 & 4.01, BLOCK 562, TAX MAP SHT. NO. 139, TOWNSHIP OF CRANFORD, UNION COUNTY, N.J.
GUARRIELLO & DEC ASSOC. LLC
 CIVIL ENGINEERS AND LAND SURVEYORS
 131 NORTH MICHIGAN AVENUE
 P.O. BOX 208
 KENILWORTH, N.J. 07033
 TEL-908-620-1139 FAX-908-620-1102

N.J. PROFESSIONAL ENGINEER
 AND LAND SURVEYOR # 24GB03897400
 CERTIFICATE OF AUTH. # 24GA28048500

SCALE	JOB #	DATE	SHEET NO.
1"=20'	B55-15	FEB. 19, 2021	5 OF 5