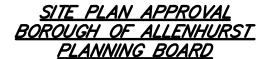


GENERAL NOTES:

- 1. NO FENCE OF BARBED WIRE, RAZOR WIRE, OR SIMILAR MATERIAL IS PERMITTED.
- 2. NO CONSTRUCTION ACTIVITY SHALL BEGIN PRIOR TO 8:00 AM, AND NO LATER THAN 5:00 PM.
- 3. PRIOR TO ANY CONSTRUCTION ACTIVITIES, THE APPLICANT SHALL CALL FOR A UTILITIES SERVICE MARKOUT.
- 4. ORDINANCE SECTION 26-5.11.f ~ NO PRIVATE SWIMMING POOL SHALL HAVE ANY CONNECTION WHATSOEVER TO THE SANITARY SEWER SYSTEM OF THE BOROUGH OF ALLENHURST, AND NO WATER SHALL BE DISCHARGED FROM SUCH SWIMMING POOL INTO THE SANITARY SEWER SYSTEM. POOL WATER MAY NOT BE DISCHARGED AT THE CURB. OR UPON THE SURFACE OF ANY STREET, OR INTO THE STORM SEWER.
- 5. ANY AND ALL POOLS SHALL BE SUBJECT, AT ALL TIMES, TO INSPECTION BY THE POLICE DEPARTMENT, THE BOARD OF HEALTH, PLUMBING SUBCODE OFFICIAL, ZONING OFFICER AND THE CONSTRUCTION OFFICIAL.
- 6. THE CONSTRUCTION, MAINTENANCE AND OPERATION OF ALL SWIMMING POOLS SHALL BE IN ACCORDANCE WITH THE CURRENT ISSUE OF THE SWIMMING POOL CODE OF NEW JERSEY PROMULGATED BY THE NEW JERSEY DEPARTMENT OF HEALTH, EXCEPT WHERE SAID CODE DIFFERS IN ANY RESPECT FROM THE PROVISION OF THIS SUBSECTION. IN SUCH EVENT, THE MORE RESTRICTIVE PROVISIONS SHALL CONTROL.
- 7. ALL MATERIALS USED IN THE CONSTRUCTION OF PRIVATE SWIMMING POOLS SHALL BE WATERPROOFED AND EASILY CLEANED. THE BOTTOM AND SIDES OF THE POOL SHALL BE EITHER WHITE OR A LIGHT COLOR. SAND OR EARTH BOTTOMS SHALL NOT BE USED. (ORD. 6 / 26 / 79 ~ 511; ORD. NO. 2011-13)
- 8. THE EXISTING CURB AND SLATE WALK ALONG THE PROPERTY FRONTAGE WILL BE REPLACED IF FOUND IN POOR CONDITION IN FRONT OF THE TEMPORARY CONSTRUCTION ENTRANCE.
- 9. ORDINANCE 26-10 "NO BUILDING, CONSTRUCTION, RECONSTRUCTION, REMODELING OR REPAIRS SHALL BE MADE. UNDERTAKEN OR CONTINUED WITHIN THE LIMITS OF THE BOROUGH BETWEEN JUNE 30 AND LABOR DAY, AND ON THE FOLLOWING HOLIDAYS: THANKSGIVING DAY AND CHRISTMAS DAY. NO POWER TOOLS SUCH AS POWER SANDERS, CHAIN SAWS, NAIL GUNS, ETC. SHALL BE ALLOWED DURING THIS MORATORIUM."
- 10. THE HOMEOWNER SHALL SUPPLY AN ASBUILT PLAN WITH CALCULATIONS TO CONFIRM THE PROJECT'S IMPERVIOUS COMPLIANCE PRIOR TO A FINAL C.O. FROM THE ZONING DEPARTMENT.
- 11. POOL EQUIPMENT SHALL BE LOCATED WITHIN THE PROPOSED GARAGE.
- 12. THE SUBJECT PROPERTY IS LOCATED APPROXIMATELY 1,400 FEET FROM THE MEAN HIGH WATER LINE OF THE ATLANTIC OCEAN.
- 13. PROPERTY IS LOCATED IN F.E.M.A. FLOOD HAZARD ZONE 'X' AS INDICATED ON FLOOD INSURANCE RATE MAPS PANELS #34025C0332F (EFFECTIVE DATE 9-25-2009) AND PANEL #34025C0332G (PRELIMINARY DATE 1-31-2014).



PLANNING BOARD CHAIRMAN

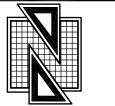
SECRETARY

ENGINEER

ADDED SURVEY REF. & AVG. SETBACK CALC. 2-18-20 DHB MRD DATE DRWN CHKD BY REVISION DESCRIPTION DEMOLITION PLAN

> 45 NORWOOD AVENUE TAX BLOCK 17, TAX LOT 12

BOROUGH OF ALLENHURST MONMOUTH COUNTY, NEW JERSEY (TAX MAP REFERENCE BOROUGH OF ALLENHURST SHEET No. 3)



FILE: 191001

Nelson Engineering Associates, Inc.

1750 BLOOMSBURY AVENUE OCEAN , NEW JERSEY 07712 TEL. (732)-918-2180 FAX (732)-918-0697 WWW.NELSONENG.NET CERTIFICATE OF AUTHORIZATION # 24GA28014900

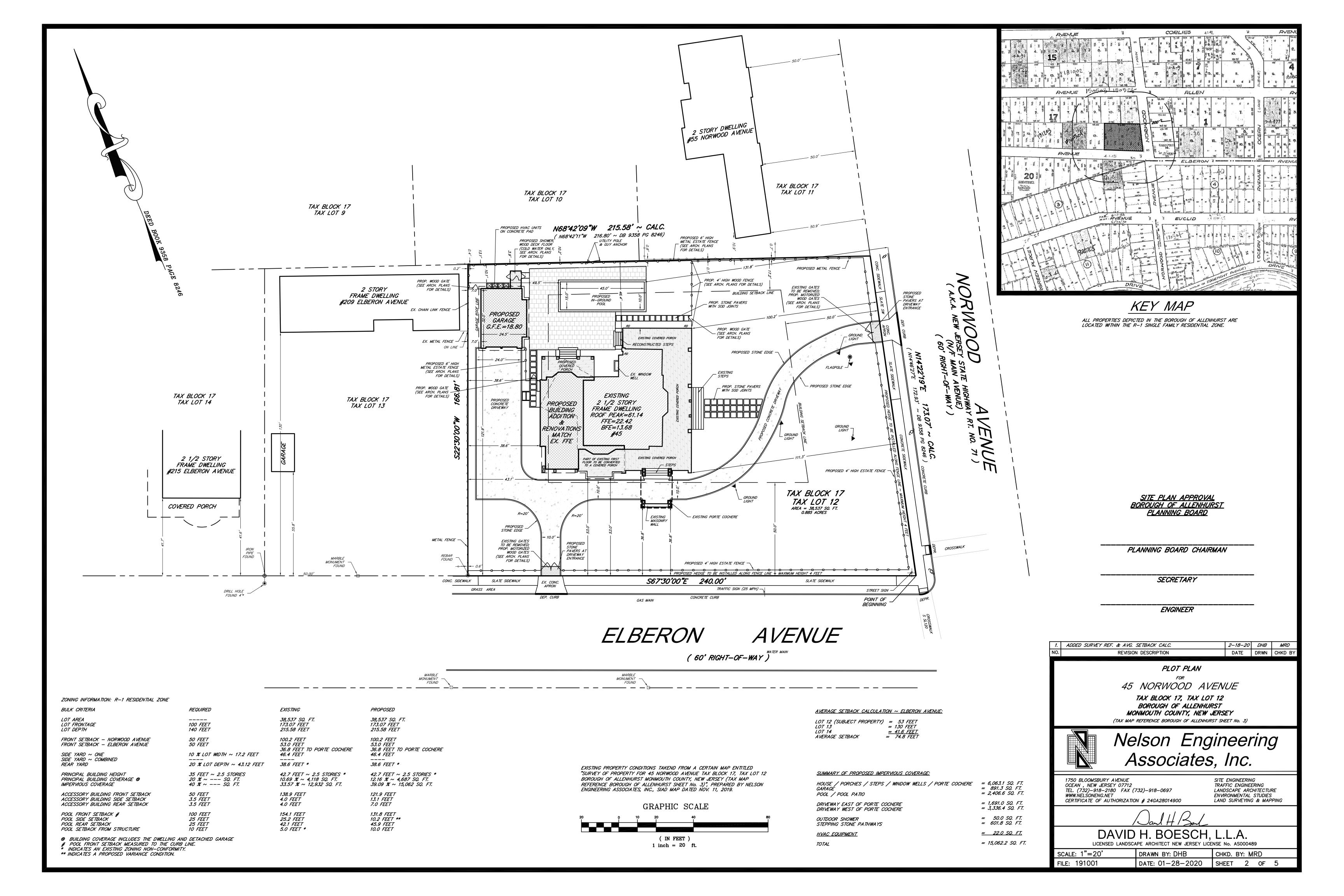
TRAFFIC ENGINEERING LANDSCAPE ARCHITECTURE ENVIRONMENTAL STUDIES
LAND SURVEYING & MAPPING

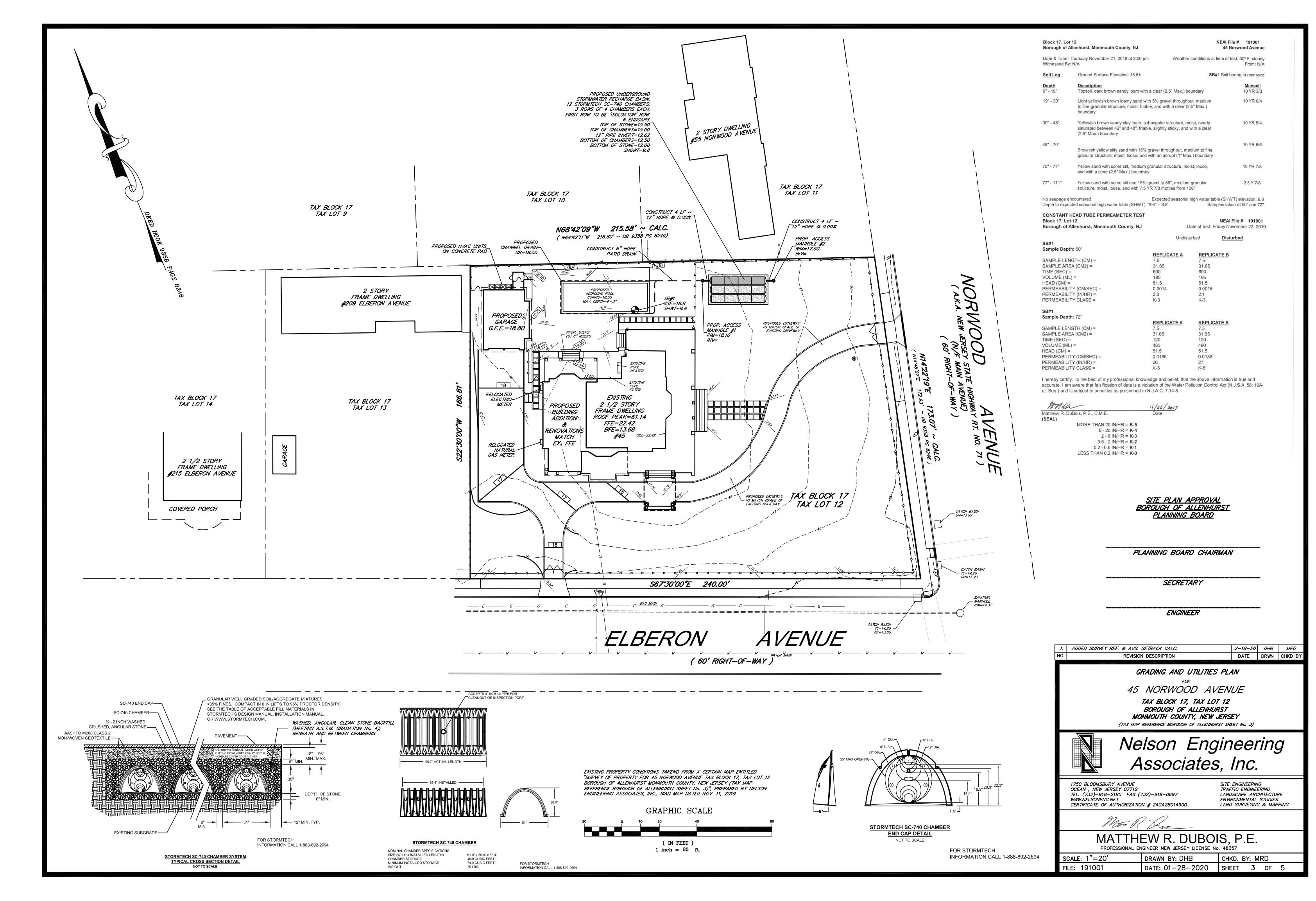
SHEET 1 OF 5

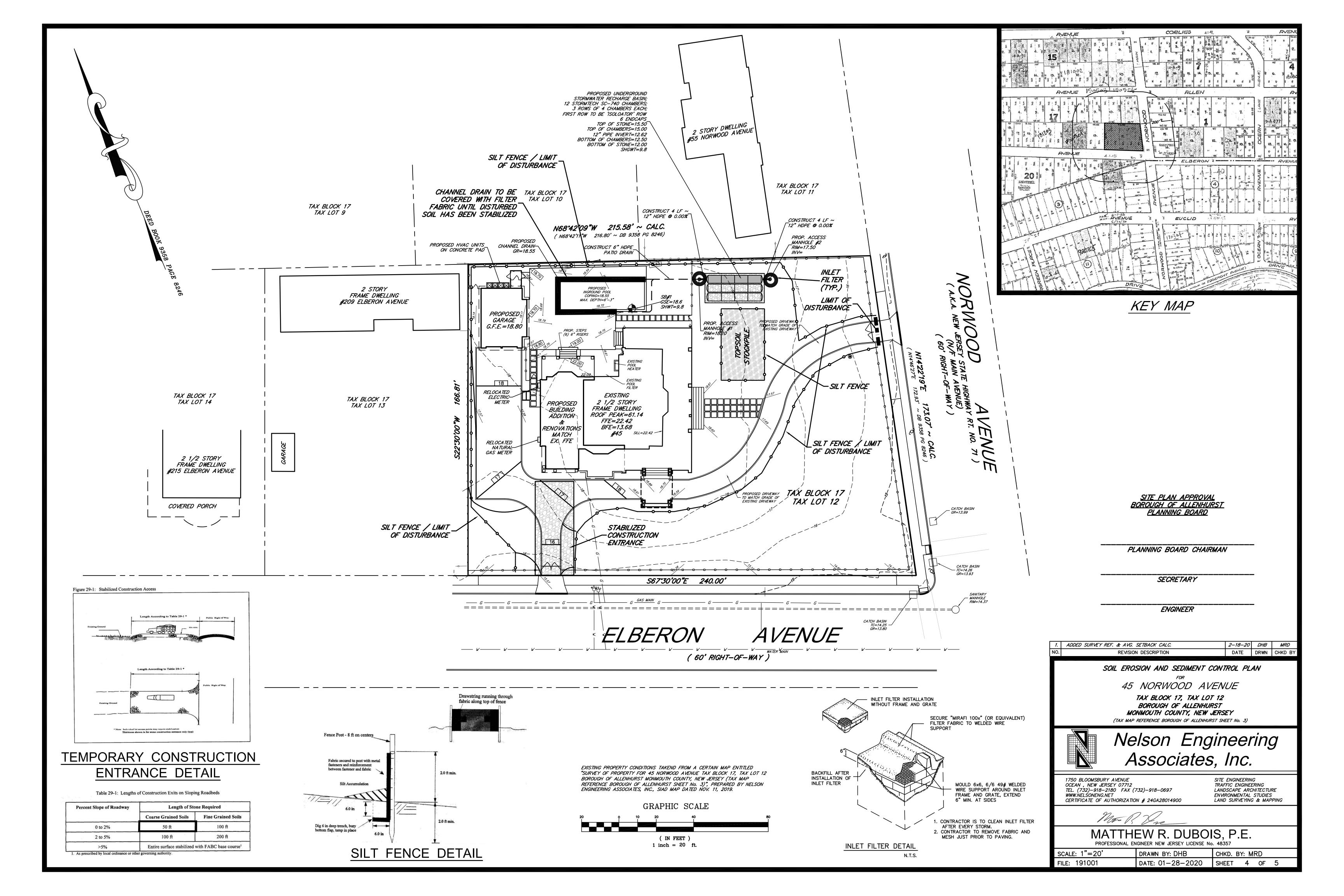
DAVID H. BOESCH, L.L.A.

DATE: 01-28-2020

LICENSED LANDSCAPE ARCHITECT NEW JERSEY LICENSE No. AS000489 SCALE: 1"=20' DRAWN BY: DHB CHKD. BY: MRD







SOIL EROSION AND SEDIMENT CONTROL NOTES

1. THE FREEHOLD SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED FORTY—EIGHT (48) HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS

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 RE—CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT

4. N.J.S.A. 4:24—39 et. SEQ. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THE DISTRICT DETERMINES THAT A PROJECT OR PORTION THEREOF IS IN COMPLIANCE WITH THE CERTIFIED PLAN AND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY AND A REPORT OF COMPLIANCE HAS BEEN ISSUED. UPON WRITTEN REQUEST FROM THE APPLICANT, THE DISTRICT MAY ISSUE A REPORT OF COMPLIANCE WITH CONDITIONS ON A LOT—BY—LOT OR SECTION—BY—SECTION BASIS, PROVIDED THAT THE PROJECT OF PORTION THEREOF IS IN SATISFACTORY COMPLIANCE WITH THE SEQUENCE OF DEVELOPMENT AND TEMPORARY MEASURES FOR SOIL EROSION AND SEDIMENT CONTROL

ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN SIXTY (60) 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 2 TO 2 1/2 TONS PER ACRE, ACCORDING TO STATE

IMMEDIATELY FOLLOWING THE INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (i.e. STOCKPILES, STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SECDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AND A MULCH ANCHOR, IN ACCORDANCE WITH STATE STANDARDS.

7. A SUB-BASE 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 SUB-BASE SHALL BE INSTALLED WITHIN FIFTEEN (15)

THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A PAD OF

CLEAN CRUSHED STONE AT POINTS WHERE TRAFFIC WILL BE ACCESSING THE CONSTRUCTION SITE. AFTER INTERIOR ROADS ARE PAVED, INDIVIDUAL LOTS REQUIRE A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF ONE INCH TO TWO INCH (1"-2") STONE FOR A MINIMUM LENGTH OF 10 FEET (10') EQUAL TO THE LOT ENTRANCE WIDTH. ALL OTHER ACCESS POINTS SHALL BE BLOCKED OFF. 9. ALL SOIL WASHED, DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT—OF—WAYS WILL BE REMOVED IMMEDIATELY. PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10)

AT THE TIME THAT 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 THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED. 12. 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 IMMEDIATELY PLACED OR

BURIED WITH LIMESTONE APPLIED AT A RATE OF 10 TONS/ACRE, (OR 450 LBS./1,000 SQ. FT. OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12" OF SETTLED SOIL WITH A PH OF 5 OR MORE, OR 4" WHERE TRÉES OR SHRUBS ARE TO BE PLANTED. 13. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.

14. UNFILTERED DEWATERING IS NOT PERMITTED. NECESSARY PRECAUTIONS MUST BE TAKEN DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH THE STANDARD FOR DEWATERING. 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 AS REQUIRED BY THE STANDARD FOR DUST CONTROL.

16. STOCKPILE AND STAGING LOCATIONS ESTABLISHED 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. CERTIFICATION OF A NEW SOIL EROSION AND SEDIMENT CONTROL PLAN MAY BE REQUIRED FOR THESE ACTIVITIES IF AN AREA GREATER THAN 5,000 SQUARE FEET IS DISTURBED. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION 18. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT. 19. ANY SILT FENCE BARRIER AND HAY BALES SHALL BE CONSTRUCTED AS NOTED ON THE DETAIL AND PLACED AS SHOWN ON THE PLAN. BALES SHALL BE REPLACED UPON SATURATION WITH SILT. L SOIL EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE IN PLACE AS DESIGNED IN THE SEQUENCE OF CONSTRUCTION AND SHALL REMAIN IN PLACE AS REQUIRED. 21. SEQUENCE OF CONSTRUCTION: THE FOLLOWING SCHEDULE SHALL BE ADHERED TO. IF NECESSARY, TO MODIFY THE TIME SEQUENCE, THE SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED AND SUPPLIED WITH THE MODIFIED TIME SCHEDULE.

1. INSTALL SILT FENCE, HAY BALES AND INLET FILTERS.

- 2. INSTALL CONSTRUCTION ACCESS ROAD.
 3. DEMOLISH EXISTING SURFACE STRUCTURES AS NOTED ON THE 4. GRADE THE SITE TO CONTAIN ALL SURFACE WATER FLOWS
- 1 THEREON.

 5. STABILIZE ALL EXPOSED SOIL NOT SUBJECT TO TRAFFIC.

 6. CONSTRUCT DRAINAGE FACILITIES.
- b. PHASE II1. CONSTRUCT BUILDING FOUNDATION.
- 2. INSTALL INTERIOR LOT DRAINAGE
- 1. CONSTRUCT CURBING, PAVEMENT AND SIDEWALKS.
 2. COMPLETE STRUCTURE.
- e. PHASE V (DEPENDENT UPON SEASON)
 1. COMPLETE LANDSCAPING
 2. REMOVE SE&SC MEASURES.

22. TEMPORARY SEEDING SHALL CONSIST OF PERENNIAL RYEGRASS APPLIED AT A RATE OF 1.0 LBS. PER 1,000 SQ. FT. THE OPTIMUM SEED DEPTH SHALL BE 0.5 INCHES. TEMPORARY SEEDING SHALL BE MULCHED AND MAINTAINED UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED WITH PERMANENT

23. PERMANENT SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE OR APPROVED EQUAL. OPTIMUM PLANTING PERIODS ARE BETWEEN AUGUST 15 AND OCTOBER 30. ACCEPTABLE PLANTING PERIODS ARE BETWEEN FEBRUARY 1 AND APRIL 30 OR BETWEEN MAY 1 AND AUGUST 14. SUMMER SEEDINGS SHOULD ONLY BE CONDUCTED WHEN THE SITE IS IRRIGATED. MIXES INCLUDING WHITE CLOVER REQUIRE THAT AT LEAST SIX WEEKS OF GROWING SEASON REMAIN AFTER SEEDING TO ENSURE ESTABLISHMENT BEFORE FREEZING CONDITIONS.

FINE FESCUE BLEND (HARD FESCUE, CHEWINGS FESCUE, STRONG CREEPING RED FESCUE)

COOL SEASON SEED MIXTURE #6 (WITHOUT WHITE CLOVER)

0.10 LBS./1,000 SQ. FT. KENTUCKY BLUEGRASS 0.50 LBS./1,000 SQ. FT. PERENNIAL RYEGRASS 0.10 LBS./1,000 SQ. FT.

24. SEEDBED PREPARATION:

A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS CO-OPERATIVE EXTENSION OFFICES. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50 % WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. APPPLY LIMESTONE AT THE % WATER INSOLUBLE MITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. AFFEL LIMITIONS AT IT.

RATE OF 2 TONS/ACRE UNLESS SOIL TESTING INDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOI ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES.

B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRATICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE

C. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED IN ACCORDANCE WITH THE ABOVE. SOILS HIGH IN SULFIDES OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT 25. MAINTENANCE OF PERMANENT SOIL EROSION CONTROL MEASURES IS THE RESPONSIBILITY OF THE

26. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IF ESTABLISHED. NO BUILDING PERMITS WILL BE RELEASED UNTIL ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES, AS INDICATED ON APPROVED PLANS, ARE INSTALLED.

27. THE DISTRICT SHALL BE REPRESENTED AT THE PROJECT PRE—CONSTRUCTION MEETING WITH THE TOWNSHIP ENGINEER, CONTRACTORS AND UTILITY REPRESENTATIVES. IF THE TOWNSHIP ENGINEER DOES NOT SCHEDULE A PRE-CONSTRUCTION MEETING, IT IS THE RESPONSIBILITY OF THE OWNER/APPLICANT TO SCHEDULE ONE PRIOR TO ANY LAND DISTURBANCE.

28. FAILURE OF THE AFOREMENTIONED PLAN SHALL NOT RELIEVE THE APPLICANT OF ANY OF ITS RESPONSIBILITIES RELEVANT TO THE APPROPRIATE STATUTES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY THE DISTRICT IN THE EVENT OF ANY UNFORESEEN PROBLEMS DURING CONSTRUCTION.

29. FINAL STABILIZATION OF ALL LAND DISTURBANCES ASSOCIATED WITH UNDERGROUND UTILITIES, IRRESPECTIVE OF PHASING, IS THE ULTIMATE RESPONSIBILITY OF THE OWNER. 30. IF SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY OR PERMANENT SEEDING, EXPOSED AREAS SHALL BE STABILIZED WITH MULCH. SEE THE MULCHING STANDARDS FOR MATERIALS AND

ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES (i.e. SLOPES GREATER THAN 3:1). ALL WORK TO BE DONE IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT

MULCHING STANDARDS

A. MULCHING IS REQUIRED ON ALL SEEDING. THE EXISTANCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT. B. STRAW OR HAY - UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, TO BE APPLIED AT THE RATE OF 1.5 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED. SPREAD MULCH UNIFORMLY SO THAT AT LEAST 85 % OF THE SOIL SURFACE IS COVERED. ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT OF THE MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.

AND TWINE - DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING THE MULCH. SECURE THE MULCH TO THE SOIL BY STRETCHING TWINE BETWEEN THE PEGS IN A CRISS—CROSS AND SQUARE PATTERN. SECURE THE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS. MULCH NETTINGS — STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO ME MOWED.

CRIMPER - A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESINGED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.

LIQUID MULCH BINDERS - MAY BE USED TO ANCHOR SALT HAY, HAY OR STRAW MULCH. APPLICATIONS SHOULD BE HEAVIER AT THE EDGES WHERE WIND MAY CATCH THE MULCH, IN VALLEYS, AND AT CREST OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE. (1) ORGANIC AND VEGETABLE BASED BINDERS — NATURALLY OCCURING, POWDER BASED, HYDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMULATES A GELL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHOTOTOXIC EFFFECT IMPEDE GROWTH OF TURF GRASS. USE AT RATES AND WEATHER CONDTIONS AS RECOMMENDED BY MANUFACTURER TO ANCHOR MULCH MATERIALS.

(2) SYNTHETIC BINDERS — HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND, FOLLOWING APPLICATION OF MULCH, DRYING AND CURING SHALL NO LONGER BE SOLUBLE OR DISPURSIBLE IN WATER. BINER SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.

TOPSOIL SPECIFICATIONS:

A. TOPSOIL SHALL BE FRIABLE, LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE OR ADVERSE CHEMICAL OR PHYSICAL CONDITION THAT MAY BE HARMFUL TO PLANT GROWTH. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY SHALL BE LESS THAN 0.5 MILLIMHOS PER CENTIMETER). IMPORTED TOPSOIL SHALL HAVE A MINIMUM ORGANIC CONTENT OF 2.75 PERCENT. ORGANIC MATTER CONTENT MAY BE RAISED BY ADDITIVES. B. TOPSOIL SUBSTITUTE IS A SOIL MATERIAL WHICH MAY HAVE BEEN AMENDED WITH SAND, SILT, CLAY, ORGANIC MATTER, FERTILIZER OR LIME AND HAS THE APPEARANCE OF TOPSOIL. TOPSOIL SUBSTITUTES MAY BE UTILIZED ON SITES WITH INSUFFICIENT TOPSOIL FOR ESTABLISHING PERMANENT VEGETATION. ALL TOPSOIL SUBSTITUTE MATERIALS SHALL MEET THE REQUIREMENTS OF TOPSOIL NOTED IN NOTE 'A' ABOVE.

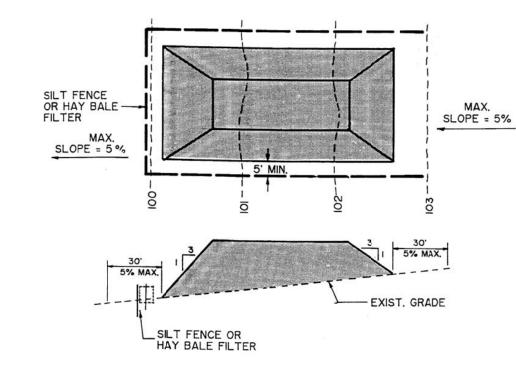
SOIL TESTS SHALL BE PERFORMED TO DETERMINE THE COMPONENTS OF SAND, SILT, CLAY, ORGANIC MATTER, SOLUBLE SALTS AND PH LEVEL. FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING.

D. STRIPPING SHALL BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY SOIL TESTS O BRING THE SOIL pH TO APPROXIMATELY 6.5. GRADE AT THE ONSET OF THE OPTIMAL SEEDING PERIOD SO AS TO MINIMIZE THE DURATION AND AREA OF EXPOSURE OF DISTURBED SOIL TO EROSION. IMMEDIATELY PROCEED TO ESTABLISH VEGETATIVE COVER IN ACCORDANCE WITH THE SPECIFIED SEED MIXTURE. G. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE. H. AS GUIDANCE FOR IDEAL CONDITIONS, SUBSOIL SHOULD BE TESTED FOR LIME REQUIREMENT. LIMESTONE, IF NEEDED, SHOULD BE APPLIED TO BRING SOIL TO A pH OF APPROXIMATELY 6.5 AND INCORPORATED INTO THE SOIL AS NEARLY PRACTICAL TO A DEPTH OF 4 INCHES.

I. PRIOR TO TOPSOILING, THE SUBSOIL SHALL BE IN COMPLIANCE WITH THE STANDARD FOR LAND J. EMPLOY NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENTATION BASINS, AND WATERWAYS. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL

A UNIFORM APPLICATION TO AN AVERAGE DEPTH OF 5.0 INCHES, MINIMUM OF 4 INCHES, FIRMED IN PLACE IS REQUIRED. ALTERNATIVE DEPTHS MAY BE CONSIDERED WHERE SPECIAL REGULATORY AND/OR INDUSTRY DESIGN STANDARDS ARE APPROPRIATE, SUCH AS ON GOLF COURSES, SPORTS FIELDS, LANDFILL CAPPING, ETC. SOILS WITH A PH OF 4.0 OR LESS, OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM DEPTH OF 12 INCHES OF SOIL HAVING A PH OF 5.0 OR MORE, IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOIL.

J. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT PERMANENT VEGETATIVE COVER BECOMES ESTABLISHED ON AT LEAST 80% OF THE SOILS TO BE STABILIZED WITH VEGETATION. FAILURE TO ACHIEVE THE MINIMUM COVERAGE MAY REQUIRE ADDITIONAL WORK TO BE PERFORMED BY THE CONTRACTOR TO INCLUDE SOME, OR ALL, OF THE FOLLOWING: SUPPLEMENTAL SEEDING, RE—APPLICATION OF LIME AND FERTILIZERS, AND/OR THE ADDITION OF ORGANIC MATTER (I.E. COMPOST) AS A TOP DRESSING. SUCH MEASURES SHALL BE BASED ON SOIL TESTING SUCH AS THOSE OFFERED BY RUTGERS COOPERATIVE EXTENSION SERVICE, OR OTHER APPROVED LABORATORY FACILITIES QUALIFIED TO TEST SOIL SAMPLES FOR AGRONOMIC PROPERTIES.



- PLACE STOCKPILES AT LOCATIONS AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
- ALL SIDE SLOPES SHALL BE 3 TO I OR FLATTER.
- STOCKPILE. SHALL RECIEVE A VEGETATIVE COVER IN ACCORDANCE WITH MINIMUM STABILIZATION REQ..
- SILT FENCE OR HAY BALE FILTER SHALL BE INSTALLED AS DETAILED HEREON.

TOPSOIL STOCKPILE

SOIL DE-COMPACTION AND TESTING REQUIREMENTS

SOIL COMPACTION TESTING REQUIREMENTS:

1. SUBGRADE SOILS PRIOR TO THE APPLICATION OF TOPSOIL (SEE PERMANENT SEEDING AND STABILIZATION NOTES FOR TOPSOIL REQUIREMENTS) SHALL BE FREE OF EXCESSIVE COMPACTION TO A DEPTH OF 6.0 INCHES TO ENHANCE THE ESTABLISHMENT OF PERMANENT

2. AREAS OF THE SITE WHICH ARE SUBJECT OT COMPACTION TESTING AND/OR MITIGATION ARE GRAPHICALLY DENOTED ON THE

TO MARK LOCATIONS OF TESTS, AND ATTACHED TO THE COMPACTION REMEDIATION FORM, AVAILABLE FROM THE LOCAL SOIL CONSERVATION DISTRICT. THIS FORM MUST BE FILLED OUT AND SUBMITTED PRIOR TO RECEIVING A CERTIFICATE OF COMPLIANCE FROM THE DISTRICT. 4. IN THE EVENT THAT TESTING INDICATES COMPACTION IN EXCESS OF THE MAXIMUM THRESHOLDS INDICATED FOR THE SIMPLIFIED TESTING METHODS (SEE DETAILS BELOW). THE CONTRACTOR / OWNER SHALL HAVE THE OPTION TO PERFORM EITHER (1) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA DENOTED ON THE PLAN (EXCLUDING EXEMPT AREAS), OR (2) PERFORM ADDITIONAL, MORE DETAILED TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL DETAILED TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.

3. COMPACTION TESTING LOCATIONS ARE DENOTED ON THE PLAN. A COPY OF THE PLAN, OR PORTION OF THE PLAN, SHALL BE USED

COMPACTION TESTING METHODS:

A. PROBING WIRE TEST (SEE DETAIL)

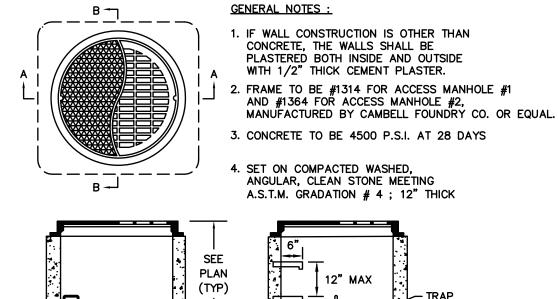
- B. HAND-HELD PENETROMETER TEST (SEE DETAIL) C. TUBE BULK DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)
- D. NUCLEAR DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED) NOTE: ADDITIONAL TESTING METHODS WHICH CONFORM TO A.S.T.M. STANDARDS AND SPECIFICATIONS, AND WHICH PRODUCE A DRY WEIGHT,

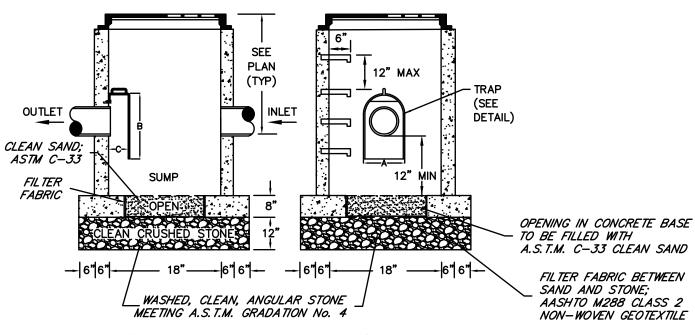
SOIL BULK DENSITY MEASUREMENT MAY BE ALLOWED SUBJECT TO DISTRICT APPROVAL. SOIL COMPACTION TESTING IS NOT REQUIRED IF/WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) OR SIMILAR) IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION.

PROCEDURES FOR SOIL COMPACTION MITIGATION:

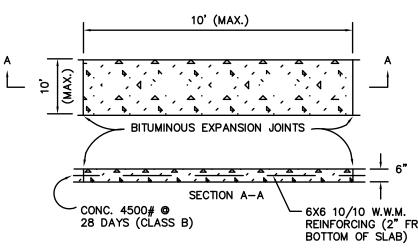
PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION PRIOR TO PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.

RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NOT DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.). IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAY BE SUBSTITUTED SUBJECT OT DISTRICT APPROVAL.



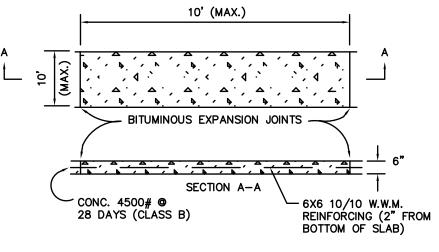


SECTION A-A 'THROUGH" INVERT DETAIL TYPE "Y" INLET WITH SUMP & TRAP



1/2" THICK, 6" WIDE, SHALL BE INSTALLED AT A SPACING OF TEN FEET ON CENTER IN BOTH DIRECTIONS. 2.)THERE SHALL BE A BROOM FINISH WITH THE EDGES FINISHED WITH A SUITABLE TOOL.

CONCRETE PAVEMENT DETAIL N.T.S.

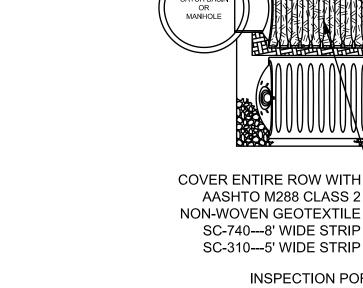


1.) A PREFORMED, BITUMINOUS EXPANSION JOINTS

THREE (3) ROWS OF STORMTECH SC-740 CHAMBERS

SEE GRADING PLAN;

PROPOSED SYSTEM TO CONTAIN



AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE SC-740---8' WIDE STRIP SC-310---5' WIDE STRIP INSPECTION PORT-BY DESIGN ENGINEER

► WOVEN GEOTEXTILE THAT MEETS AASHTO M288 CLASS 1 REQUIREMENTS BETWEEN FOUNDATION STONE AND CHAMBERS SC-740---5'-6' WIDE STRIP SC-310---4' WIDE STRIP

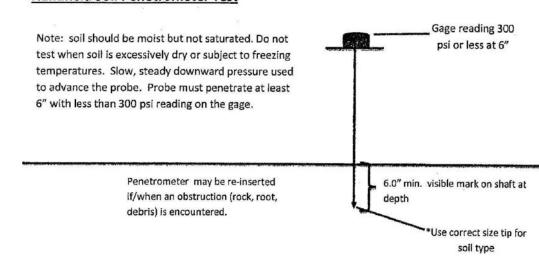
FOR STORMTECH INFORMATION CALL 1-888-892-2694

<u>STORMTECH ISOLATOR™ ROW</u> PLAN VIEW DETAIL

Probing Wire Test- 15.5 ga steel wire (survey flag)

Note: soil should be moist but not saturated. Do not test when soil is excessively dry or subject to freezing temperatures. Slow, steady downward Hold Wire here: pressure used to advance the wire. Wire must penetrate a minimum of 6" without deformation. 18-21" 6.0" min. visible mark on wire at Wire may be re-inserted if/when an obstruction (rock, root, debris) is encountered.

Handheld Soil Penetrometer Test



FINISHED GRADE

PAVEMENT

4"x4"x10" MIN. BELGIAN

BLOCK, GRANITE BLOCK

OR APPROVED EQUAL

4000 P.S.I. CONCRETE AT 28

DAYS, WITH AIR ENTRAINMENT

-ıı--1"BATTER

ا--"12

POINTED WITH 1:1 CEMENT-SAND MORTAR.

1. ANY EXCAVATION BELOW DESIRED GRADE DUE TO OVER

EXCAVATION OR WET SOIL CONDITIONS SHALL BE BACKFILLED

2. JOINTS SHALL BE NOT MORE THAN "WIDE FOR DRESSED BLOCK

BE APPROVED BY THE TOWNSHIP ENGINEER PRIOR TO POURING.

AND %" WIDE FOR QUARRY SPLIT BLOCK. THE JOINTS SHALL BE

3. CURB SHALL BE TEMPORARILY BACKFILLED TO FINISH GRADE WITH SOIL BEHIND AND STONE ON THE ROADSIDE AS SOON AS IT HAS ATTAINED

SUFFICIENT SUPPORTING STRENGTH OR WITHIN 24 HOURS OF POURING

4. WHEN NEW CURB IS INSTALLED ALONG AN EXISTING PAVED AREA, THE EXISTING PAVEMENT SHALL BE CUT 2 FEET IN FRONT OF THE NEW CURB

OR PNEUMATIC HAMMER. THE NEW PAVEMENT SHALL BE TACKED AND AND BUTTED TO THE EXISTING PAVEMENT IN ACCORDANCE WITH PAVEMENT

5. THE GENERAL CONTRACTOR OR OWNER IS RESPONSIBLE FOR MAINTAINING

ALL CURB UNTIL FORMALLY ACCEPTED BY THE TOWNSHIP COMMITTEE.

REPLACED PRIOR TO FINAL PAVING AND/OR ACCEPTANCE.

NOT TO SCALE

BELGIAN BLOCK CURB

ALL CURB THAT IS BROKEN, CRACKED, OR OUT OF ALIGNMENT SHALL BE

FACE IN A STRAIGHT LINE AT A 45 DEGREE ANGLE WITH A CUTTING WHEEL

WITH 34" CLEAN CRUSHED STONE. ALL SUBGRADES SHALL

SUBGRADE

WIDENING DETAIL.

r STORMTECH ISOLATOR™ ROW

UNEXCAVATED.

VIRGIN MATERIAL´

NOTES:

(SEE NOTE 1)



AERIAL PHOTOGRAPH: SCALE 1"=200'

BOROUGH OF ALLENHURST PLANNING BOARD

<u>SITE PLAN APPROVAL</u>

PLANNING BOARD CHAIRMAN

SECRETARY

ENGINEER

2-18-20 DHB MRD ADDED SURVEY REF. & AVG. SETBACK CALC. REVISION DESCRIPTION DATE DRWN CHKD B SOIL EROSION NOTES AND DETAILS

> 45 NORWOOD AVENUE TAX BLOCK 17, TAX LOT 12 BOROUGH OF ALLENHURST MONMOUTH COUNTY, NEW JERSEY (TAX MAP REFERENCE BOROUGH OF ALLENHURST SHEET No. 3)



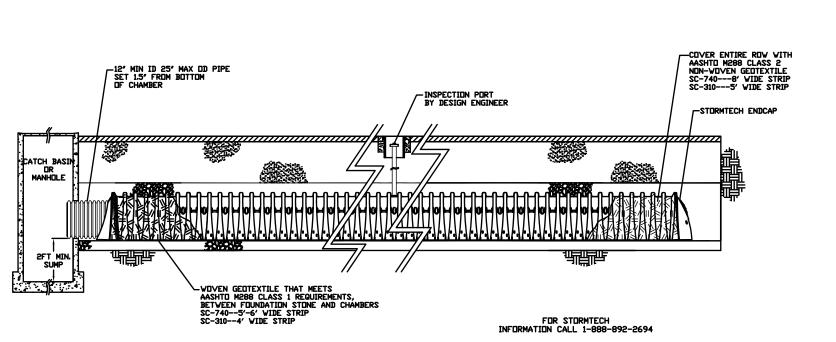
Nelson Engineering Associates, Inc.

1750 BLOOMSBURY AVENUE OCEAN , NEW JERSEY 07712 TEL. (732)-918-2180 FAX (732)-918-0697 WWW.NELSONENG.NET CERTIFICATE OF AUTHORIZATION # 24GA28014900

TRAFFIC ENGINEERING LANDSCAPE ARCHITECTURE ENVIRONMENTAL STUDIES LAND SURVEYING & MAPPING

MATTHEW R. DUBOIS, P.E. PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 48357

SCALE: 1"=20' DRAWN BY: DHB CHKD. BY: MRD DATE: 01-28-2020 FILE: 191001 SHEET 5 OF 5



STORMTECH ISOLATOR™ ROW PROFILE VIEW DETAIL

NOT TO SCALE