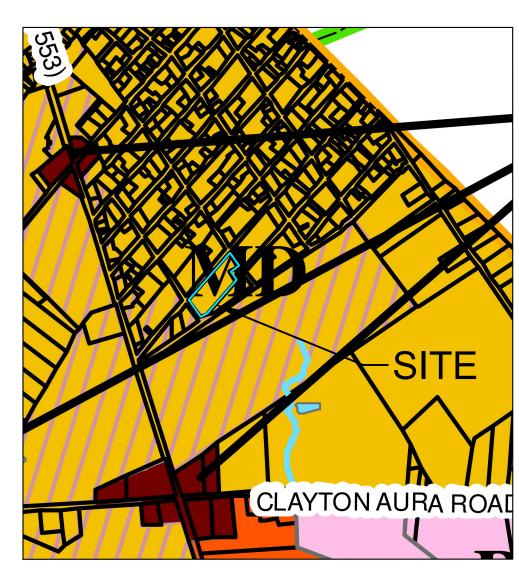
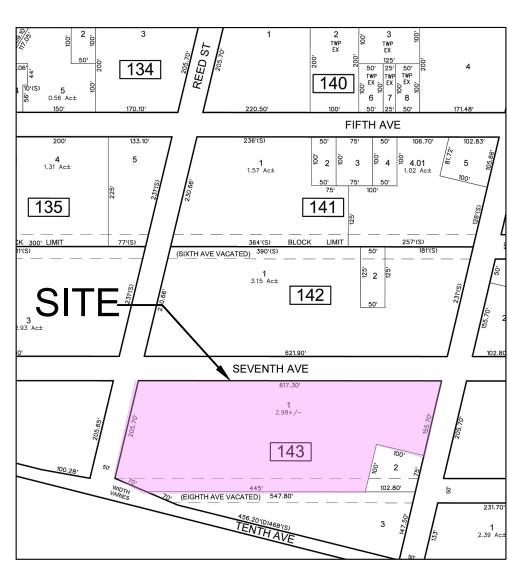
PRELIMINARY AND FINAL MAJOR SUBDIVISION PLANS

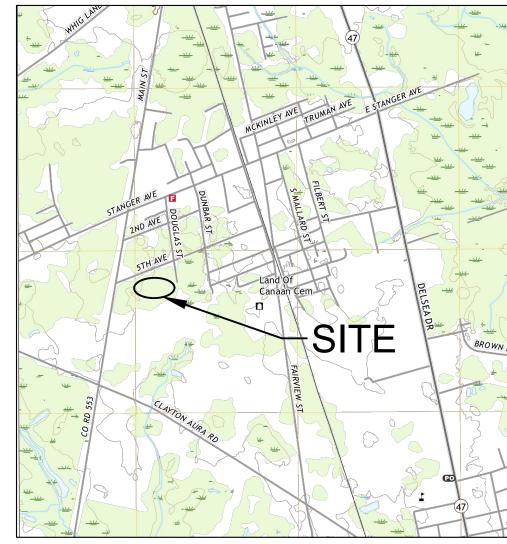
7TH AVENUE AND DOUGLAS STREET BLOCK 143, LOT 1 GLOUCESTER COUNTY, NEW JERSEY



ZONING MAP SOURCE: ELK TOWNSHIP ZONING MAP (2016) SCALE: 1" = 1000'



TAX MAP SOURCE: TOWNSHIP OF ELK TAX MAPS (NJ TAX MAPS) TAX MAP NO. 37 NOT TO SCALE



LOCATION MAP SOURCE: USGS PITMAN EAST U.S. TOPO SCALE: 1"=2000'

INDEX

SHEET NO. DESCRIPTION

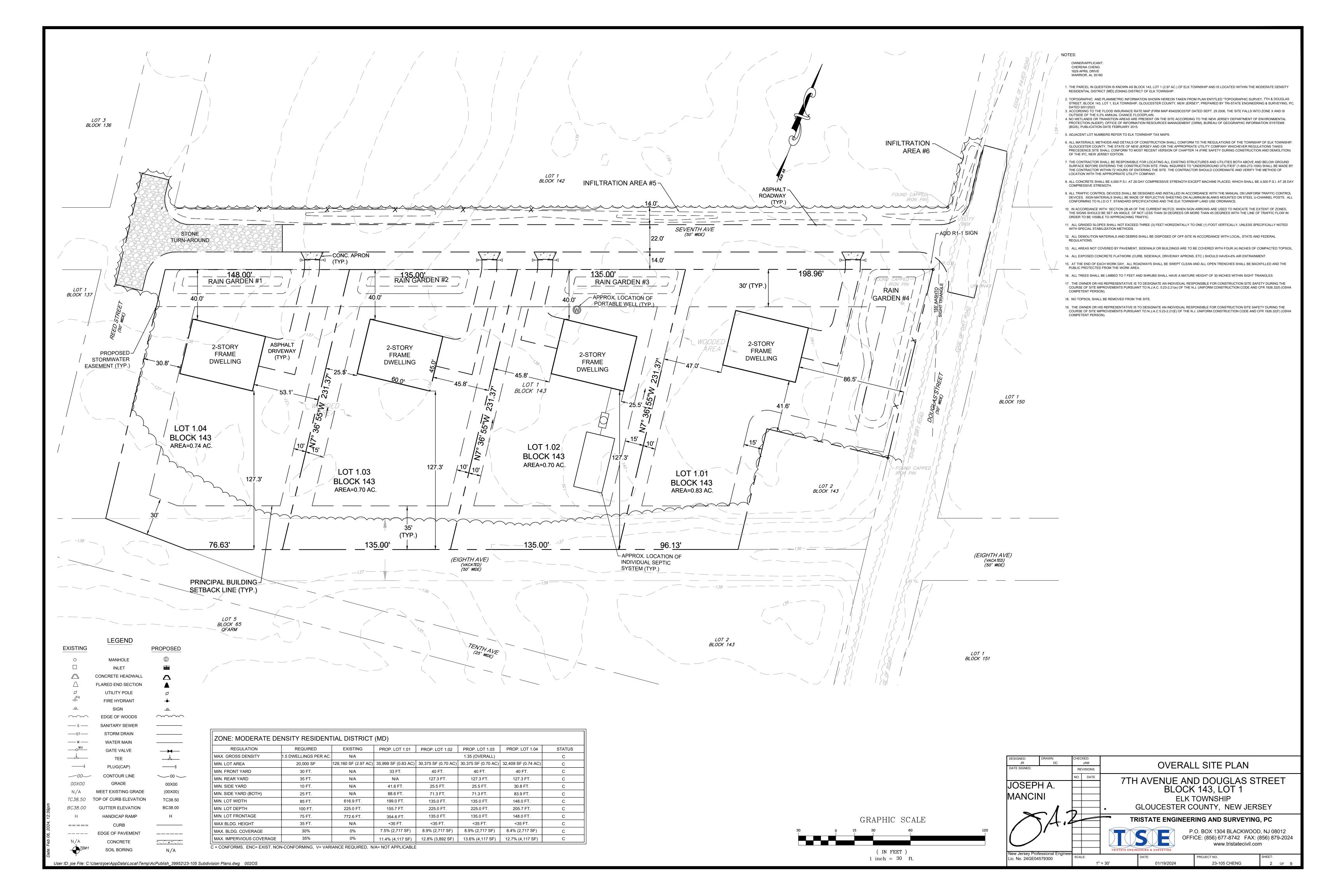
- **COVER SHEET**
- OVERALL SITE PLAN
- **GRADING PLAN**
- LANDSCAPING PLAN
- SOIL EROSION AND SEDIMENT CONTROL PLAN
- SOIL PREPARATION PLAN
- SOIL EROSION AND SEDIMENT CONTROL DETAILS
- CONSTRUCTION DETAILS
- ROADWAY DETAILS

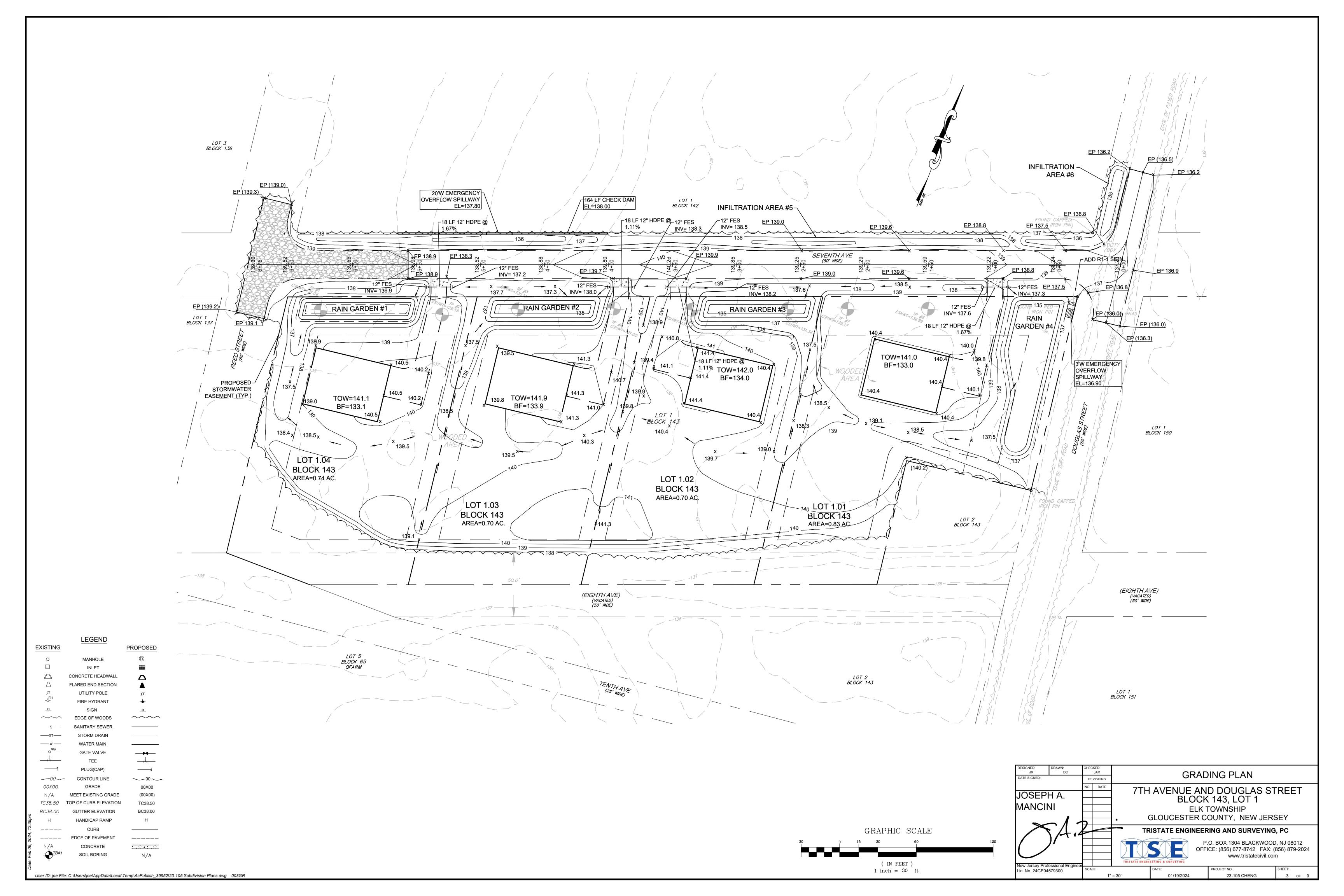
OWNER/APPLICANT ELK TOWNSHIP LAND USE BOARD THIS PLAN IS HEREBY APPROVED BY THE LAND USE BOARD OF ELK TOWNSHIP. CHAIRMAN DATE DATE SECRETARY COVER SHEET

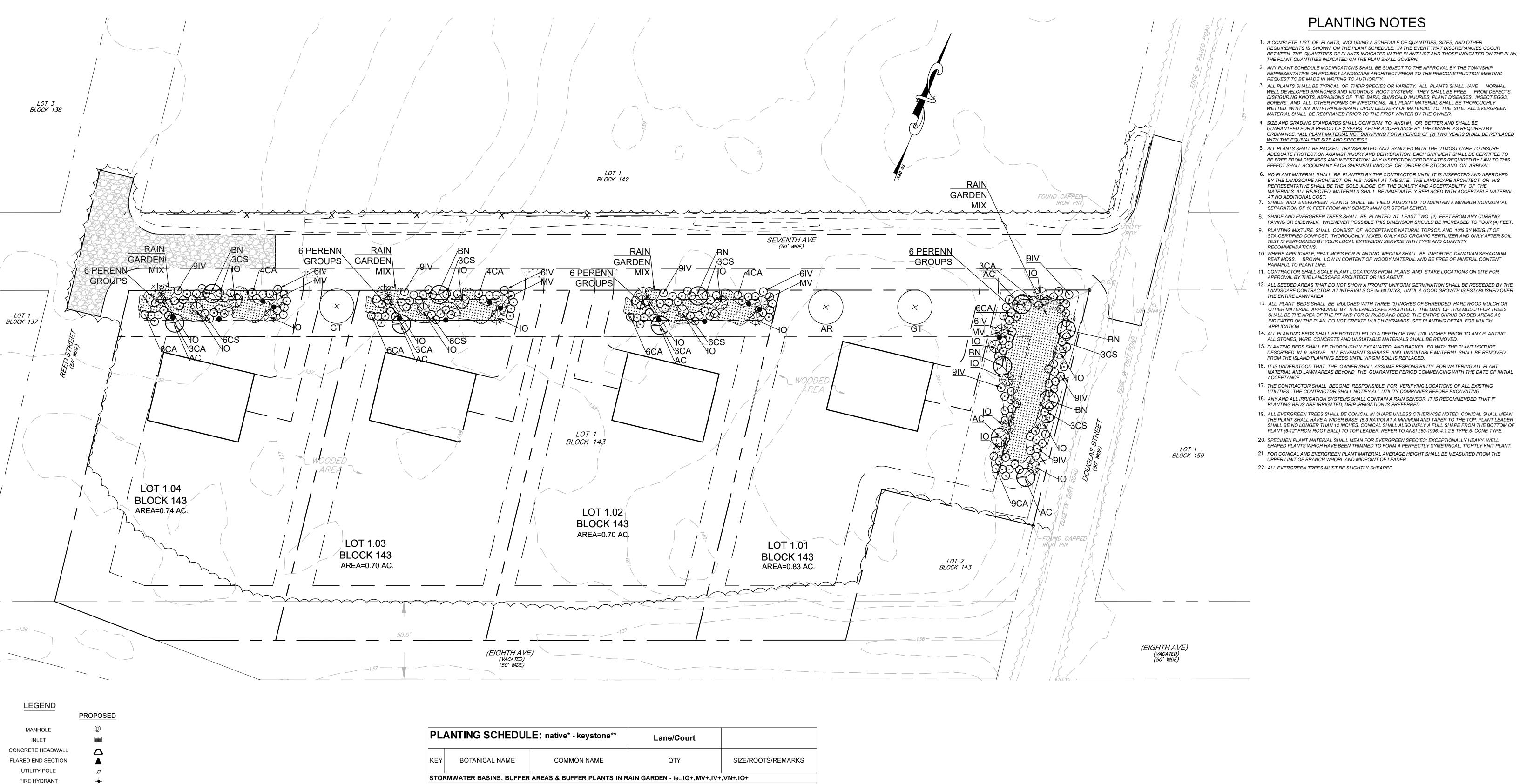
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JOSEPH A.			7TH AVENUE AND DOUGLAS STREET BLOCK 143, LOT 1					
MANCINI			ELK TOWNSHIP GLOUCESTER COUNTY, NEW JERSEY TRISTATE ENGINEERING AND SURVEYING, PC					
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				OFFI	O. BOX 1304 BLACKWOOD, NJ 08012 ICE: (856) 677-8742 FAX: (856) 879-2024 www.tristatecivil.com			
New Jersey Professional Engineer	_		TRISTATE ENGIN	EERING & SURVEYING	-	I		
Lic. No. 24GE04579300	SCALE: AS SHOWN		SHOWN	DATE: 01/19/2024	PROJECT NO. 23-105 CHENG	SHEET: 1 OF 9		

NECESSARY APPROVALS -ELK TOWNSHIP PLANNING BOARD -PENDING -GLOUCESTER COUNTY PLANNING BOARD -TO BE SUBMITTED -GLOUCESTER COUNTY SOIL CONSERVATION DISTRICT -TO BE SUBMITTED

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STORMWATER BASINS, BUFFER AREAS & BUFFER PLANTS IN RAIN GARDEN - ie.,IG+,MV+,IV+,VN+,IO+ AC** Amelanchier X grandiflora SERVICEBERRY MT 4-5'ht., #15 CONTAINER MT 4-5'ht., #15 CONTAINER BN** Betula nigra 'Dura Heat' RIVER BIRCH **EVERGREEN TREES** IO* llex opaca 5-6'HT., B&B AMERICAN HOLLY 20 6-7'HT.,B&B MV* |Magnolia virginiana SWEETBAY MAGNOLIA 4 SHRUBS/PERENNIALS CA* Clethra alnifolia 'Ruby Spice' SUMMERSWEET 57 #3 CAN 33 #5 CAN CS* Sambucus canadensis 'Adam AMERICAN ELDER WINTERBERRY HOLLY llex verticillata 'Maryland #5 CAN (IV): 80% MARYLAND LANDSCAPE LEGEND Beauty' & 'Jim Dandy' BEAUTY-20% JIM DANDY (VN): 80% WINTERTHUR-20% BRAINDY WINE DECIDUOUS TREEES AR+ Acer rubrum 'Red Sunset' RED SUNSET MAPLE 2 1/2" CAL., 12-14'HT., B&B **EVERGREEN TREE** 2 1/2" CAL., 12-14'HT., B&B GT+ Glenditsia tricanthos inermis THORNLESS HONEYLOCUST

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SIGN

EDGE OF WOODS

SANITARY SEWER

STORM DRAIN

WATER MAIN

GATE VALVE

TEE

PLUG(CAP)

CONTOUR LINE

GRADE

MEET EXISTING GRADE

TOP OF CURB ELEVATION

GUTTER ELEVATION

HANDICAP RAMP

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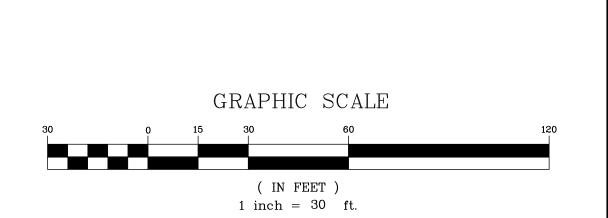
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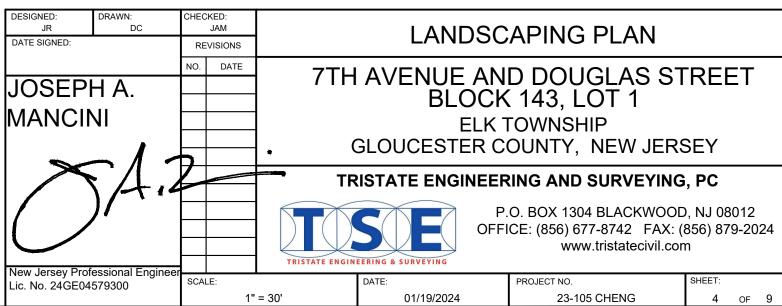
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SHADE TREE

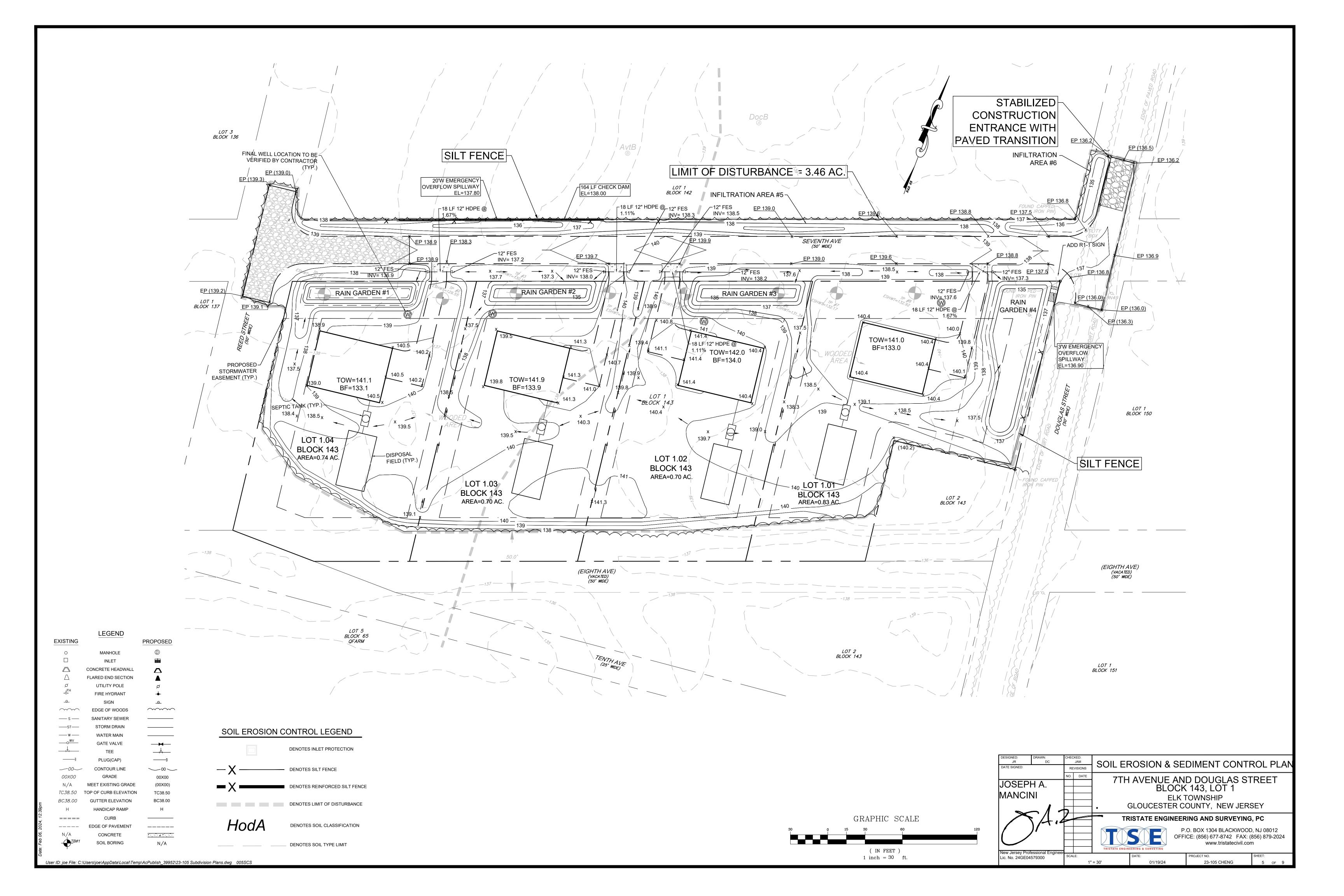
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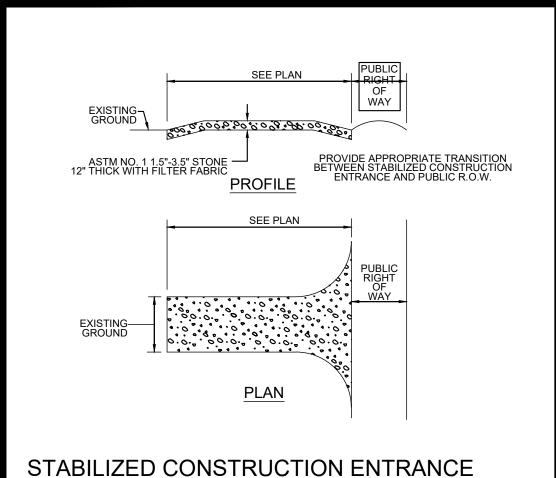
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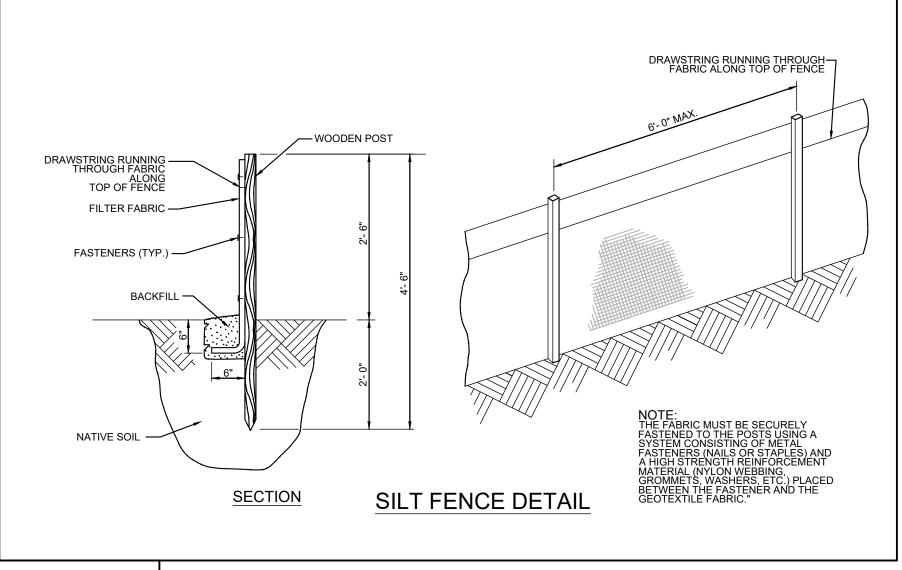


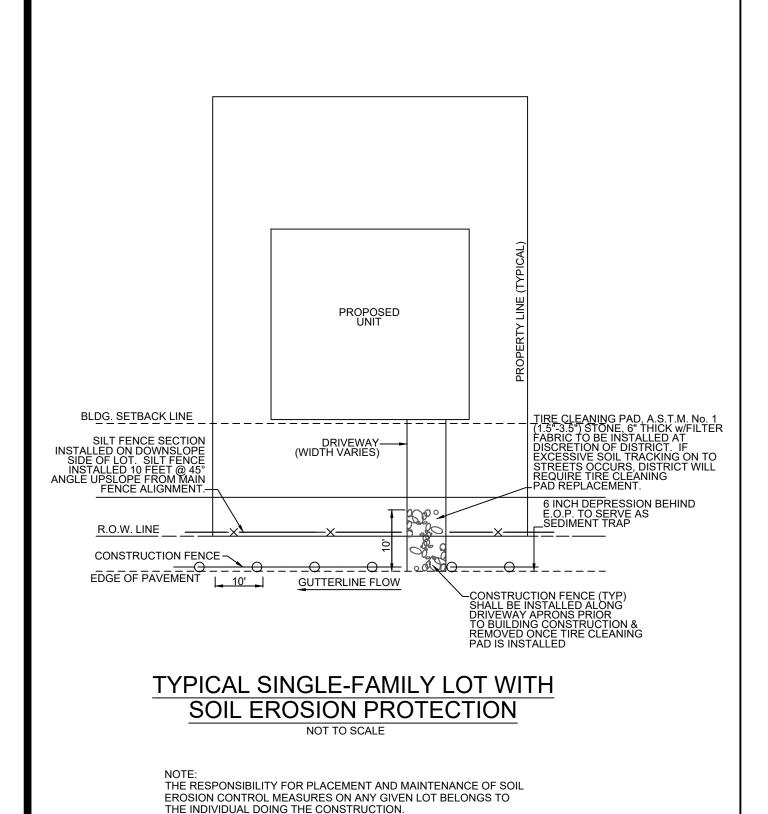


PLANTING NOTES









ACID SOIL CONDITIONS AND MITIGATION PROCEDURES: GENERAL MITIGATION STANDARDS

EXPOSURE OF ACID-PRODUCING DEPOSITS.

- 1. IN VEGETATED AREAS, THE TOPSOIL SHALL BE STRIPPED AND STOCKPILED SEPARATELY FROM THE MATERIAL TO BE EXCAVATED. IF THE EXPOSED SUBSOIL IS CHARACTERISTIC OF ACID PRODUCING SOIL, THEN SAMPLES SHALL BE OBTAINED AND TESTED AT A SOIL TESTING LABORATORY. IF ANY SULFIDIC OR SULFURIC MATERIALS (INDICATING THE PRESENCE OF ACID SOILS) ARE IDENTIFIED, THIS MATERIAL AND ANY CONTAMINATED SOIL SHALL NOT BE EXPOSED FOR MORE THAN ONE (1) DAY EXCEPT WHERE NECESSARY FOR THE CONDUCT OF THE PROJECT.
- 2. THE AREA OF ACID-PRODUCING DEPOSITS EXPOSED SHALL BE NO LARGER THAN THAT WHICH IS ABSOLUTELY NECESSARY FOR THE CONDUCT OF THE PROJECT. 3. CONSTRUCTION SCHEDULES SHALL BE FORMULATED TO PROVIDE MINIMUM PRACTICABLE

EXCAVATION

- 1. WHERE THE TOP LAYER OF SOIL (REMAINING AFTER CLEARANCE OF VEGETATION) IS FREE FROM ACID-PRODUCING DEPOSITS, SUCH SOIL SHALL BE STRIPPED AND STOCKPILED SEPARATELY FROM THE DEEPER, ACID-PRODUCING DEPOSITS TO BE EXPOSED. NO ACID-PRODUCING DEPOSITS SHALL BE INCLUDED IN THIS STOCKPILE.
- 2. ACID-PRODUCING DEPOSITS (INCLUDING SOIL CONTAMINATED WITH SUCH DEPOSITS AND CONTAMINATED SOIL WASHED FROM CONSTRUCTION EQUIPMENT) SHALL NOT BE EXPOSED FOR MORE THAN ONE (1) DAY EXCEPT WHERE ABSOLUTELY NECESSARY FOR ONE (1) DAY. THEY SHALL BE COVERED WITH PULVERIZED LIMESTONE AT THE RATE OF HIRTY (30) TONS PER ACRE (1,375 LBS. PER 1,000 SQ. FT.) AND THEN COVERED WITH A MINIMUM OF ONE FOOT OF COMPACTED TOPSOIL (FREE OF ACID-PRODUCING DEPOSITS FROM THE UPPERMOST TWO (2) INCHES OF THE EXPOSED DEPOSIT DROPS TO 4.0, WHICHEVER OCCURS FIRST.
- 3. EXCAVATED MATERIAL SHALL BE RETURNED TO TRENCHES OR PITS IN THE ORDER OF ITS REMOVAL, I.E., LOWER MATERIAL FIRST, FOLLOWED BY UPPER MATERIAL. HOWEVER, IF ACID-PRODUCING DEPOSITS ARE FOUND ONLY IN THE UPPER MATERIAL, THEN THE UPPER MATERIAL SHOULD BE RETURNED FIRST. THIS EXCEPTION ALSO APPLIES TO THE FOLLOWING SITUATION. WHERE ACID-PRODUCING DEPOSITS ARE STOCKPILED ON SOIL UNCONTAMINATED WITH SUCH DEPOSITS, THE TOP TWO (2) INCHES OF SUCH SOIL SHALL BE SCRAPED OFF AND BURIED ALONG WITH THE LOWER MATERIAL. THE SURPLUS MATERIAL RESULTING DUE TO PERMANENT GRADE REDUCTION, PLACEMENT OF PIPES OR OTHER STRUCTURES, AND SOIL SCRAPED FROM AREAS UNDER TEMPORARY STOCKPILES OF ACID-PRODUCING DEPOSITS SHALL BE SUBSTITUTED FOR AN EQUAL QUANTITY OF DEEPER MATERIAL WHICH IN TURN WILL BE REMOVED TO A SUITABLE DISPOSAL SITE. AFTER BACKFILLING THE DEEPER MATERIAL, PULVERIZED LIMESTONE SHOULD BE SPREAD OVER THE TOP OF THE MATERIAL, AT THE RATE OF TEN (10) TONS PER ACRE (460 LBS. PER 1,000 SQ. FT.), BEFORE THE APPLICATION OF THE SURFACE LAYER OF SOIL. THIS LINING PROCEDURE IS APPLICABLE ONLY IN WELL-DRAINED AREAS. THE TOP LAYER OF SOIL, FREE OF ACID-PRODUCING DEPOSITS STRIPPED AND STOCKPILED IN ITEM #1 ABOVE SHALL THEN BE REPLACED F NECESSARY, ADDITIONAL QUANTITIES OF TOPSOIL SHALL BE IMPORTED SO AS TO ENSURE AT LEAST ONE (1) FOOT DEEP COVER OF SOIL, FREE OF ACID-PRODUCING
- 4. EQUIPMENT USED FOR EXCAVATING OR BACKFILLING ACID-PRODUCING DEPOSITS SHALL BE CLEANED AT THE END OF EACH DAY'S OPERATION, TO THE EXTENT PRACTICABLE, IN SUCH A WAY THAT WILL NOT CAUSE THE SPREADING OF ACID-PRODUCING DEPOSITS ONTO UNCONTAMINATED SOIL. THE SOIL REMOVED MUST BE PLACED IN THE TRENCH
- 5. EVERY EFFORT SHALL BE MADE TO MINIMIZE THE SPREADING OR MIXING OF ACID-PRODUCING DEPOSITS (INCLUDING SOIL CONTAMINATED WITH SUCH DEPOSITS) ONTO OR INTO SOIL FREE OF SUCH DEPOSITS (ON OR OFF THE CONSTRUCTION SITE). NO CONSTRUCTION SHALL TAKE PLACE DURING SIGNIFICANT RAINSTORMS OR WHILE THE GROUND IS SATURATED, IF SUCH CONSTRUCTION IS LIKELY TO SMEAR OR SPREAD ACID-PRODUCING DEPOSITS OVER UNCONTAMINATED SOIL OR INTO WATERWAYS. IF ACID-PRODUCING DEPOSITS MUST BE STOCKPILED ON TOP OF SOIL FREE OF SUCH DEPOSITS. THE AREA USED FOR STOCKPILING SHALL BE MINIMIZED. EROSION AND EDIMENT CONTROL MEASURES SHALL BE APPLIED WHERE ACID-PRODUCING DEPOSITS ARE EXPOSED OR STOCKPILED. TO PREVENT OR REDUCE THE MOVEMENT. OF ACID-PRODUCING MATERIAL INTO STREAMS OR ONTO CONTAMINATED SOIL.
- 6. TEMPORARY VEGETATIVE COVER SHALL NOT BE USED FOR STABILIZATION OF ACID-PRODUCING DEPOSITS UNLESS THE LIMING AND TOPSOIL APPLICATION REQUIREMENTS OF ITEM #3 AND THE SURFACE SOIL PH REQUIREMENTS OF ITEM #9 ARE FIRST MET. OTHERWISE TEMPORARY STABILIZATION OF ACID-PRODUCING DEPOSITS SHALL CONSIST OF MULCHING AND SHALL BE IMPLEMENTED BY THE END OF THE CONSTRUCTION DAY.
- AND TOPSOIL APPLICATION REQUIREMENTS OF ITEMS #2 AND #3. MULCH SHALL NOT BE DIRECTLY APPLIED TO THE EXPOSED SURFACE OF ACID-PRODUCING DEPOSITS, BUT RATHER TO THE TOPSOIL APPLIED TO COVER SUCH DEPOSITS.
- 8. PERMANENT VEGETATION SHALL BEGIN AS SOON AS CONSTRUCTION IS COMPLETE AND AFTER THE RESULTS OF THE INCUBATION TESTS, WHERE NECESSARY, ARE AVAILABLE.
- 9. PRIOR TO RESTORING VEGETATED AREA, THE SOIL SPECIALIST SHALL PERFORM PH TESTS ON THE SOIL. IF THE PH IS BELOW 4.0, THIS IS AN INDICATION THAT ACID SOILS HAVE BEEN MIXED INTO THE SOIL, NECESSITATING AN INTENSIVE LIMING EFFORT IN ORDER TO MAKE THE SOIL SUITABLE FOR PLANT SURVIVAL. THE PH OF THE SURFACE LAYER OF SOIL (ONE (1) FOOT MINIMUM THICKNESS) MUST BE RAISED TO 5.0 BEFORE SEEDBED
- 10. THE INCUBATION TEST REQUIRES THAT A SOIL SAMPLE BE OXIDIZED FOR SIX (6) WEEKS. IF THE PH IS BELOW 4.0, LIME REQUIREMENT TESTS SHALL BE PERFORMED BY THE SOILS SPECIALIST TO DETERMINE THE LIME APPLICATION RATES.

- 1. MITIGATION PROCEDURES MUST BE FOLLOWED IF CONSTRUCTION WILL EXPOSE ACID-PRODUCING DEPOSITS DURING CONSTRUCTION. THE PERIOD OF EXPOSURE SHOULD BE HELD TO A MINIMUM AND MEASURES TAKEN TO COVER SUCH DEPOSITS TO PREVENT ACCELERATION OF THE OXIDATION PROCESS.
- 2. ONE (1) FOOT OF SOIL FREE OF ACID-PRODUCING DEPOSITS SHALL BE SPREAD OVER THE EXPOSED DEPOSIT SURFACE. THE PH OF SUCH SOIL SHALL BE 5.0 OR GREATER. THE TEXTURE OF THE SOIL SHALL FALL WITHIN THE FOLLOWING TEXTURAL CLASSES (U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE CLASSIFICATION) CLAY, SILTY CLAY, SANDY CLAY, CLAY LOAM SILTY CLAY LOAM, SANDY CLAY LOAM LOAM, SILT LOAM, SILT
- NO MORE THAN TEN (10) PERCENT OF THE SOIL (BY MASS) MAY CONSIST OF COURSE FRAGMENTS (PARTICLES ABOVE 2MM DIAMETER OR LONG-AXIS LENGTH AND NO FRAGMENTS MAY EXCEED THREE (3) INCHES IN DIAMETER OR LONG-AXIS LENGTH.
- 3. THE SOIL THAT IS TO BE SPREAD PURSUANT TO ITEM #2 SHALL BE COMPACTED. THE SOIL SHALL NOT BE COMPACTED TO A BULK DENSITY EXCEEDING 1.7 GRAMS
- 4. SINCE THE OXIDATION OF SULFIDE MINERALS AND RESULTING GENERATION OF ACID COMMENCES AS THE ACID-PRODUCING DEPOSITS ARE EXPOSED, THE SOIL LAYER SHALL BE APPLIED PROMPTLY TO THE NEWLY EXPOSED DEPOSITS WITHIN OR ALONG THE BASIN OR CHANNEL. TO ACCOMPLISH THIS, BASIN OR CHANNEL EXCAVATION SHALI PROCEED (WHERE NECESSARY) IN STAGES, SCHEDULED IN SUCH A WAY THAT NO NEWLY EXPOSED ACID-PRODUCING DEPOSITS REMAIN EXPOSED LONGER THAN ONE (1) WEEK, OR THE TIME REQUIRED FOR THE PH OF A WELL-MIXED SAMPLE FROM THE UPPERMOST TWO (2) INCHES OF THE DEPOSIT TO DROP TO 4.0, WHICHEVER IS LESS.

PER CUBIC CENTIMETER, AND THE LIMING AND PH REQUIREMENTS OUTLINED ABOVE.

5. IN SOME PLACES IT MAY NOT BE PRACTICAL TO COVER THE ACID-PRODUCING DEPOSITS WITH A SOIL-LIMESTONE MIXTURE IN THE MANNER DESCRIBED ABOVE BECAUSE OF STEEP SLOPES OR BECAUSE OF RUNNING WATER THAT CANNOT BE DIVERTED DURIN CONSTRUCTION IN SUCH CASES PLASTIC LINERS SHALL BE LITTLIZED PLACING THEM OVER THE NEWLY EXPOSED ACID-PRODUCING DEPOSIT WITH SUITABLE PROTECTION. ANY FILL MATERIAL PLACED OVER THE PLASTIC LINER SHALL BE FREE OF ACID-PRODUCING DEPOSITS.

MATERIAL STORAGE & DISPOSAL

- 1. STOCKPILE SATISFACTORY MATERIALS WHERE DIRECTED UNTIL REQUIRED FOR USE AS BACKFILL OR FILL . STOCKPILES SHALL BE GRADED FOR PROPER DRAINAGE.
- A. SUITABLE SITES SHALL BE LEVEL, DEVOID OF MATURE STANDS OF NATURAL AND STREAM CORRIDORS.
- B. THE STOCKPILE AREA SHALL BE SURROUNDED BY SILT FENCING OR ANOTHER ACCEPTABLE EROSION CONTROL MEASURE. WHERE FILL IS TO BE STORED IN EXCESS OF FOURTEEN (14) DAYS, A SUITABLE MEANS OF PROTECTING EXCAVATED MATERIAL FROM EROSION
- 2. DISPOSE OF EXCESS SOIL MATERIAL AND WASTE MATERIALS AS HEREIN SPECIFIED. EXCAVATED MATERIAL UNSUITABLE FOR BACKFILLING SHALL BE KEPT SEPARATE FROM OTHER MATERIALS EXCAVATED AND DISPOSED OF. MATERIAL SUITABLE FOR BACKFILLING SHALL NOT BE DISPOSED OF UNTIL COMPLETION OF FILLING OR BACKFILLING OPERATIONS.
- 3. ACID-PRODUCING DEPOSITS (INCLUDING EARTH CONTAMINATED WITH SUCH DEPOSITS) THAT ARE NOT BACKFILLED AND COVERED SHALL BE DISPOSED OF ON OR OFF THE PROJECT SITE IN A SUITABLE MANNER AND LOCATION. DISPOSAL OF EXCESS EXCAVATED MATERIAL IN WETLANDS, STREAM CORRIDORS AND FLOODPLAINS IS STRICTLY PROHIBITED.
- 4. ACID-PRODUCING DEPOSITS SHALL NOT BE DISCHARGED INTO STREAMS, INDISCRIMINATELY SPREAD OVER UNCONTAMINATED SOIL, OR SOLD OR DISTRIBUTED AS TOPSOIL OR TOPSOIL AMENDMENTS SUITABLE FOR PLANT GROWTH. INSTEAD, SUCH DEPOSITS SHALL BE BURIED AT LEAST TWO (2) FEET BENEATH THE LAND SURFACE IN SUCH A MANNER THAT THE COVER MATERIAL IS NOT SUBJECT TO ACCELERATED EROSION OR UNDER PROPOSED BUILDING SLABS. STOCKPILES OF ACID PRODUCING DEPOSITS AWAITING BURIAL SHALL BE COVERED WITH PULVERIZED LIMESTONE AT THE RATE OF THIRTY (30) TONS PER ACRE (1,375 LBS. PER 1,000 SQ. FT.) AND THEN COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF COMPACTED SOIL, FREE OF ACID-PRODUCING DEPOSITS WITHIN ONE (1) WEEK AFTER EXPOSURE, OR BEFORE THE PH OF A WELL-MIXED SAMPLE FROM THE UPPERMOST TWO (2) INCHES OF THE DEPOSIT DROPS TO 4.0, WHICHEVER OCCURS FIRST. WHENEVER PRACTICABLE, THE DEPOSIT SHALL BE BURIED THE SAME DAY IT IS EXCAVATED.

SEEDING, LIMING, FERTILIZING AND MULCHING RATES

SEED

1. SEEDBED PREPARATION AND SEED APPLICATION RATES

- A. WORK APPROVED RATES OF LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF APPROXIMATELY 4 INCHES WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE FOLLIPMENT. THE FINAL HARROWING OR DISCING A REASONABLY UNIFORM SEEDBED IS PREPARED
- B APPLY 4 LBS PER 1 000 SQ FT (160 LBS PER ACRE) OF SEED UNIFORMLY BY GRAIN DRILL OR GRASS SEEDER TO A DEPTH OF APPROXIMATELY 1/2-1 INCH WITH THE FOLLOWING RECOMMENDED SEED MIXTURE:

APPLICATION RECOMMENDED PLANTING DATES MIXTURE CHEWINGS FESCUE 4/1 - 5/31

PERENNIAL RYEGRASS 8/15 - 10/15 C. FOR SANDY SOILS APPLY PERENNIAL RYEGRASS AT THE RATE OF 3-4 LBS, PER 1,000 SQ. FT. IN ADDITION TO THE ABOVE MIXTURE.

D. DETENTION BASIN SIDE SLOPES TO BE SEEDED AT A RATE OF 4 LBS. PER 1,000 SQ. FT. (160 LBS. PER ACRE) WITH THE FOLLOWING RECOMMENDED

APPLICATION SEED PLANTING DATES MIXTURE SWITCH GRASS 4/1 - 5/31 REED CANARY GRASS CREEPING RED FESCUE 8/15 - 10/15 RELIANT "HARD" FESCUE CREEPING BENTGRASS

AREAS WITHIN A FIFTY (50) FOOT RADIUS OF THE BASIN OUTLET STRUCTURE SHALL BE OVERSEEDED WITH SWITCH GRASS AT AN ADDITIONAL RATE OF 0.2 LBS. PER 1,000 SQ. FT. (8 LBS. PER ACRE).

- E. AREAS THAT ARE TEMPORARILY SEEDED SHALL BE PROTECTED BY PERENNIAL RYEGRASS AND/OR MULCH. SEED SHALL BE APPLIED AT THE RATE OF 2 LBS. PER 1,000 SQ. FT. (100 LBS. PER ACRE). IF THE INITIAL SEEDING DOES NOT TAKE,
- F. ALL CRITICAL AREAS SUBJECT TO EROSION SHALL RECEIVE TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH IMMEDIATELY FOLLOWING
- G. VEGETATIVE FILTER STRIP (IF APPLICABLE) TO BE SEEDED AT A RATE OF 2 LBS. PER 1,000 SQ. FT. (100 LBS. PER ACRE) WITH THE FOLLOWING MIXTURE:

SEED	APPLICATION MIXTURE	RECOMMENDED PLANTING DATES
KENTUCKY #31 TALL FESCUE CHEWINGS FESCUE CREEPING RED FESCUE PERENNIAL RYEGRASS	40% 20% 20% 20%	4/1 - 5/31 OR 8/15 - 10/15

- H. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF SEED APPLICATION AND RATE OF APPLICATION AT THE REQUEST OF THE COUNTY SOIL CONSERVATION DISTRICT.
- 2. LIME APPLICATION RATES
- A. ALL SEEDED AREAS SHALL BE LIMED AT THE RATE DETERMINED BY SOIL ANALYSIS AND APPROVED BY THE ENGINEER OR THE SOIL CONSERVATION DISTRICT, OR THE FOLLOWING RATES SHALL APPLY: SOIL TEXTURES
- CLAY, CLAY LOAM AND
- SANDY LOAM, LOAM, SILT LOAM
- PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOLLSSPHIND SQ. FT OF THE NEW BRUNSWICK-TRENTON LINE.
- B. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME APPLICATION AND RATE OF APPLICATION AT THE REQUEST OF THE COUNTY SOIL CONSERVATION DISTRICT.
- 3. FERTILIZER APPLICATION RATES A. ALL SEEDED AREAS SHALL BE FERTILIZED AT THE RATE DETERMINED BY SOIL ANALYSIS AND APPROVED BY THE ENGINEER OR THE SOIL CONSERVATION DISTRICT, OR AT A RATE OF 11 LBS. PER 1,000 SQ. FT. (500 LBS. PER ACRE) USING
- B. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF FERTILIZER APPLICATION AND RATE OF APPLICATION AT THE REQUEST OF THE COUNTY SOIL CONSERVATION DISTRICT.
- 4 MULCH APPLICATION RATES A AREAS RECEIVING PERMANENT SEEDING SHALL BE MULCHED WITH SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70-90 LBS/1000 SQ. FT. MULCH SHALL BE SECURED
- BY APPROVED METHODS (LIQUID MULCH BINDER, CRIMPING, PEG AND TWINE). B. AREAS RECEIVING TEMPORARY SEEDING SHALL BE MULCHED WITH SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70-90 LBS/1000 SQ. FT. MULCH SHALL BE SECURED BY APPROVED METHODS (LIQUID MULCH BINDER, CRIMPING, PEG AND TWINE).
- C. ALL AREAS EXPOSED MORE THAN 30 DAYS DURING THE NON-GROWING SEASON SHALL BE PROTECTED BY MULCH AND SECURED WITH AN ORGANIC TACK MULCH. MULCH SHALL BE APPLIED AT A RATE OF 2-2 1/2 TONS PER ACRE.
- D. MULCH IS REQUIRED ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT METHOD AND APPLICATION FOR MULCHING SHALL BE IN ACCORDANCE WITH SECTION 4 OF THE NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT

DUST CONTROL

- DUST CONTROL SHALL BE IN ACCORDANCE WITH SECTION 16 OF THE NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL. THE FOLLOWING METHODS SHALL BE USED FOR CONTROLLING DUST
- 1. APPLICATION OF MULCH AND/OR VEGETATIVE COVER AS SPECIFIED IN "SEEDING, LIMING, FERTILIZING AND MULCHING RATES" ON THIS SHEE
- 2. TILLAGE TO ROUGHEN THE SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. PROCEED FROM THE WINDWARD SIDE OF THE SITE WITH CHISEL TOOTH PLOWS, 12 INCHES APART, OR SPRING TOOTH HARROWS.
- 3. SPRINKLING OF SITE UNTIL SURFACE IS WET. SPRINKLING SHOULD BE DONE PERIODICALLY THROUGHOUT THE CONSTRUCTION PERIOD AS REQUIRED TO CONTROL

TOPSOILING

- TOPSOILING SHALL BE IN ACCORDANCE WITH SECTION 8 OF THE NEW JERSEY
- 1. TOPSOIL SHOULD 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. 2. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS RECOMMENDED.
- 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 (SECTION 1 OF THE NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT

DEWATERING SHALL BE IN ACCORDANCE WITH SECTION 14 OF THE NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL. DURING CONSTRUCTION, EXCAVATED FACILITIES NEED TO BE DEWATERED TO FACILITATE OR COMPLETE THE CONSTRUCTION PROCESS. THE WATER PUMPED OUT OF THE EXCAVATED AREAS CONTAIN SEDIMENTS THAT MUST BE REMOVED PRIOR TO DISCHARGING TO RECEIVING

FIELD PLACEMENT OF DEWATERING DEVICE AND DISCHARGE LOCATION MUST BE APPROVED BY THE DISTRICT SOIL EROSION CONTROL INSPECTOR, PRIOR TO THE COMMENCEMENT OF DEWATERING ACTIVITIES.

DEVELOPMENT SCHEDULE

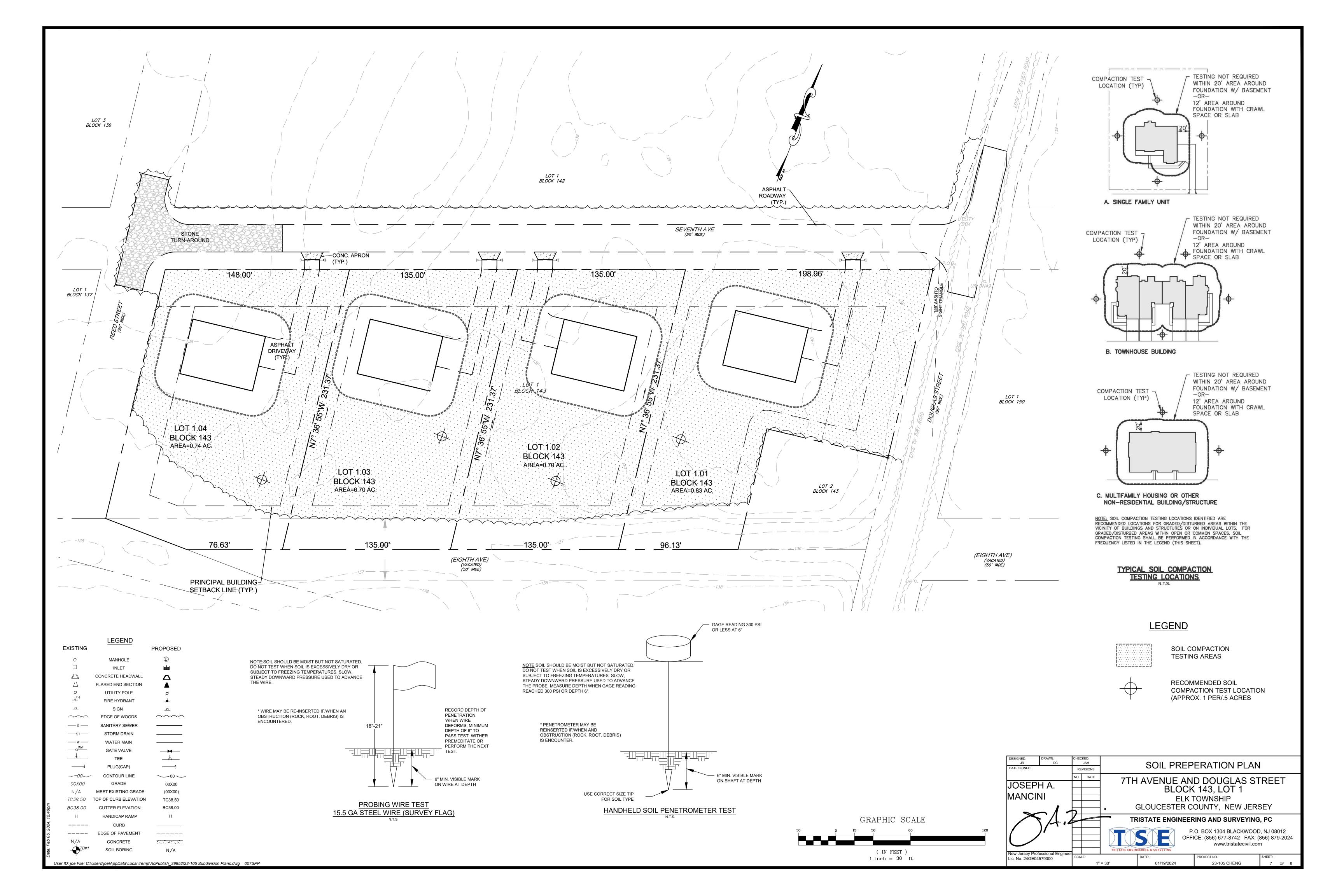
1. CONSTRUCTION IS SCHEDULED FOR THE WINTER 2022.

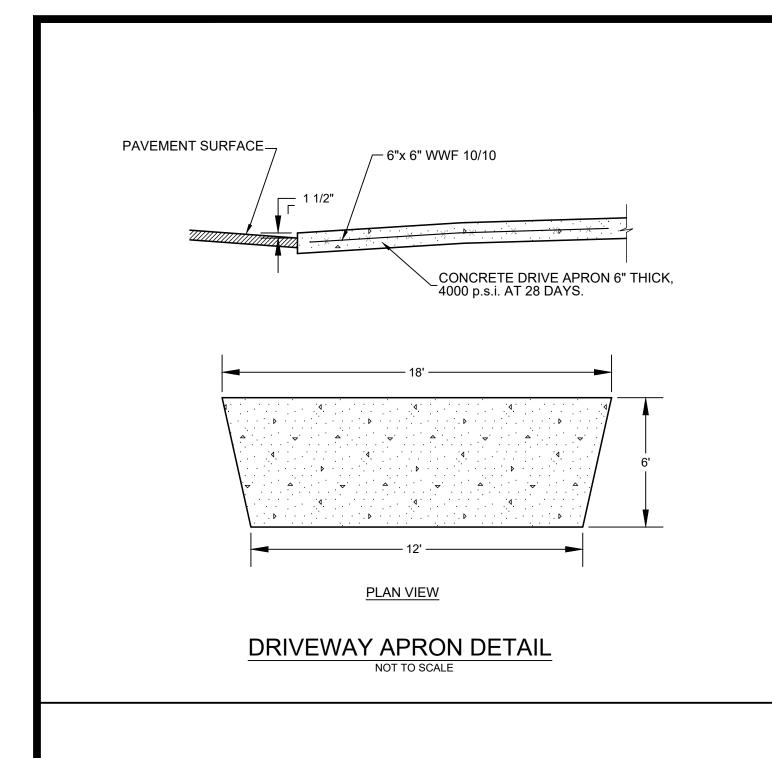
SOIL EROSION AND SEDIMENT CONTROL NOTES 1. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR 2. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THE PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW 4. ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN SIXTY (60) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE STANDARDS . IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE STANDARDS. 5. ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH IN ACCORDANCE WITH THE STANDARDS IMMEDIATELY FOLLOWING ROUGH GRADING. 6. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES. 8. SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHOULD BE PROTECTED BY A HAY BALE BARRIER OR SEDIMENT FENCE. PROPOSED LOCATIONS MUST BE 9. A CRUSHED STONE TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE RIP RAP PAD MUST BE 100 FEET IN LENGTH AND THE STONE MUST BE 1.5" - 4" IN SIZE, PLACED 12" THICK AND THE FULL WIDTH OF THE ENTRANCE. IT SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC FILTER FABRIC AND MAINTAINED. THE STRUCTURE MUST BE DELINEATED AND DETAILED ON THE PLANS. 10. IF A STONE CONSTRUCTION ACCESS IS TO BE USED AS AN EXIT ONTO A MAJOR HIGHWAY, A THIRTY (30) FOOT PAVED TRANSITION AREA SHALL BE INSTALLED. 11. ALL DRIVEWAYS MUST BE STABILIZED WITH 2 $\frac{1}{2}$ " CRUSHED STONE OR SUB BASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION. 12. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. 13. ALL CATCH BASIN INLETS WILL BE PROTECTED DURING CONSTRUCTION (FILTER DETAILS APPEAR ON PLAN). 14. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTRATION EVICE. THE SEDIMENT FILTER MUST BE PLACED SO AS NOT TO CAUSE EROSION OF THE DWNSTREAM AREA. FIELD PLACEMENT AND USE OF THE STRUCTURE MUST BE APPROVED OF THE DISTRICT EROSION CONTROL INSPECTOR PRIOR TO COMMENCEMENT OF WATERING ACTIVITIES. 16. THE BURLINGTON COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 72 HOURS PRIOR TO ANY LAND DISTURBANCE. 18. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER AND SEED APPLICATION RATES AT THE REQUEST OF THE BURLINGTON COUNTY SOIL CONSERVATION DISTRICT. 20. NJSA 4:24-39, ET SEQ. REQUIRES THAT UPON PERMANENT SITE STABILIZATION AND COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL APPLY TO THE SOIL CONSERVATION DISTRICT FOR A FINAL COMPLIANCE INSPECTION TO CHECK THAT ALL THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. 21. OFF SITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE DISTRICT EROSION CONTROL INSPECTOR. 22. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION. 23. ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ALL SUBSEQUENT OWNERS MMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING TOPSOIL, THE CKPILE SHALL BE SEEDED WITH TEMPORARY VEGETATION. STABILIZE TOPSOIL CKPILES WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE ABLISHMENT OF TEMPORARY SEED. 25. ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE BURLINGTON COUNTY SOIL CONSERVATION DISTRICT. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY. 26. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1. $27.\ \mbox{THE DISTRICT EROSION CONTROL INSPECTOR MAY REQUIRE ADDITIONAL MEASURES TO BE INSTALLED.$ 28. THE RESPONSIBILITY FOR EROSION CONTROLS FOR INDIVIDUAL LOTS WILL TRANSFER TO SUBSEQUENT OWNERS OF THE LOT. THIS RESPONSIBILITY WILL BE DESCRIBED IN THE DEED, AND A SINGLE FAMILY HOME PLAN CONTAINING ALL NECESSARY EROSION CONTROLS WILL BE PROVIDED TO THE OWNER.

29. CONCRETE TRUCK WASHOUT AREAS WILL BE MAINTAINED ON A CONTINUAL BASIS AND AS NEEDED. 30. THE STORMWATER POLLUTION PREVENTION PLAN AND THE SPILL RESPONSE PLAN SHALL BE AVAILABLE ON SITE FOR REVIEW BY THE SCD INSPECTOR AND/OR THE NJDEP INSPECTOR. THE SCD INSPECTOR OR NJDEP INSPECTOR MAY REQUIRE ADDITIONAL MEASURES FOR ORMWATER POLLUTION PREVENTION TO BE INSTALLED. 32. INSPECTIONS OF ALL STORMWATER POLLUTION PREVENTION PLAN MEASURES WILL BE CONDUCTED AND DOCUMENTED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT. 33. WASTE COLLECTION CONTAINERS WILL NOT BE PERMITTED TO OVERFLOW. 34. ANY SPILLS OF HAZARDOUS OR SANITARY WASTES WILL BE CLEANED UP IMMEDIATELY AND IN ACCORDANCE WITH THE SPILL RESPONSE PLAN. SPILL KITS MUST BE AVAILABLE ONSITE OR ADJACENT TO THE SITE. ARDOUS SUBSTANCE RELEASES IN EXCESS OF REPORTABLE QUANTITIES (RQ)) UNDER 40 C.F.R. 110, 117 AND 302 THAT OCCUR WITHIN A 24 HOUR PERIOD MUST D THE NATIONAL RESPONSE CENTER (800 36. 1 SOIL COMPACTION TEST IS REQUIRED PER .5 ACRES OF TOTAL SOIL COMPACTION TESTING AREA.

SOIL EROSION & SEDIMENT CONTROL DETAILS 7TH AVENUE AND DOUGLAS STREET JOSEPH A BLOCK 143, LOT 1 MANCINI **ELK TOWNSHIP** GLOUCESTER COUNTY, NEW JERSEY TRISTATE ENGINEERING AND SURVEYING, PC P.O. BOX 1304 BLACKWOOD, NJ 08012 OFFICE: (856) 677-8742 FAX: (856) 879-2024 www.tristatecivil.com New Jersey Professional Engine Lic. No. 24GE04579300 AS SHOWN 01/19/2024 23-105 CHENG

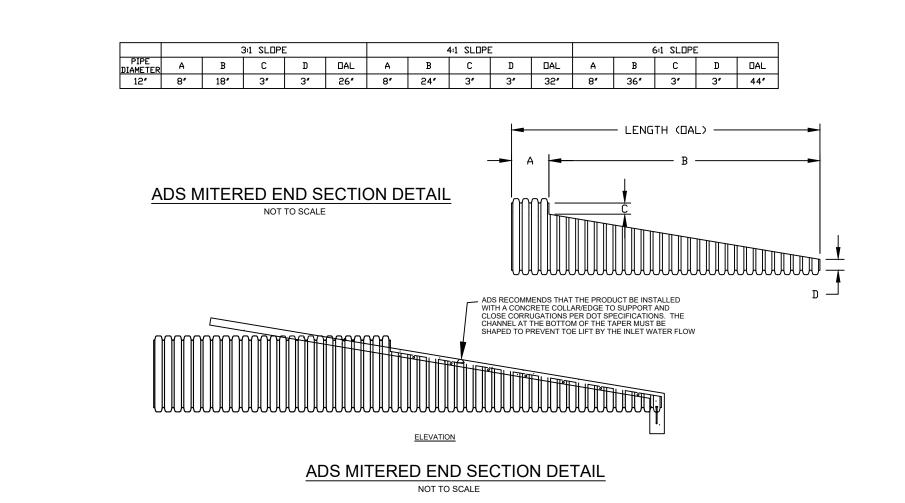
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BOTTOM OF BASIN

GATORBAG OR
APPROVED EQUAL
TO BE INSTALLED ON
ALL SHADE TREES



LONGITUDINAL SECTION

SEE PLAN

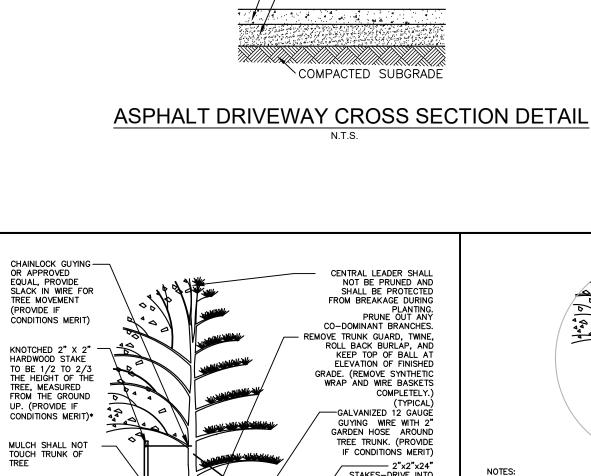
RIP-RAP $- d_{50} = 4 IN.$

CROSS SECTION

EMERGENCY SPILLWAY

NOT TO SCALE

THICKNESS = 8 IN. W/F.F.

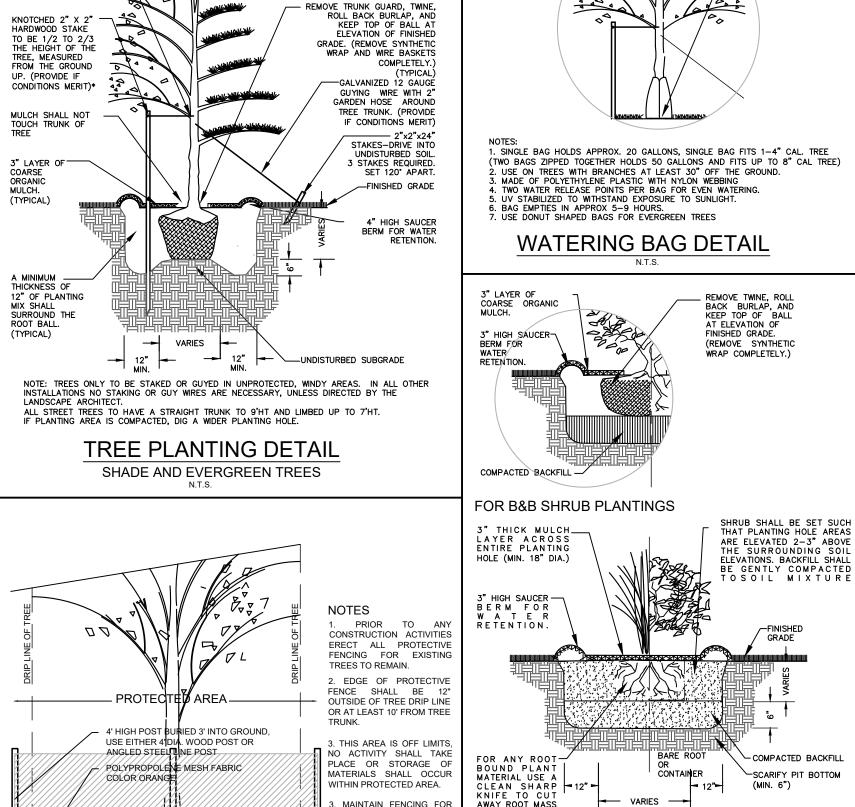


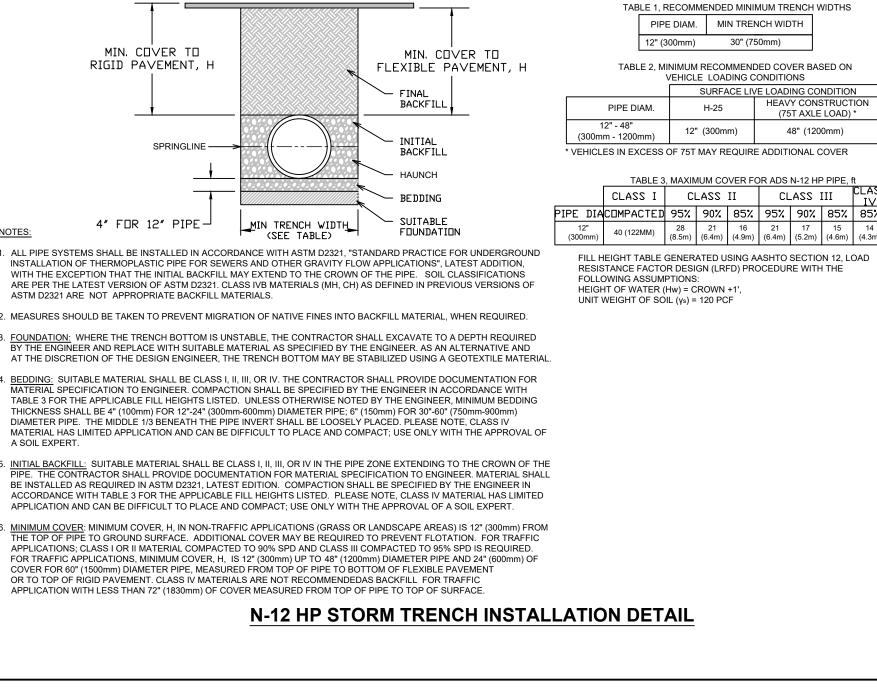
LAYER OF

– 2" FABC-1 MIX NO. 5

TYPE I-5

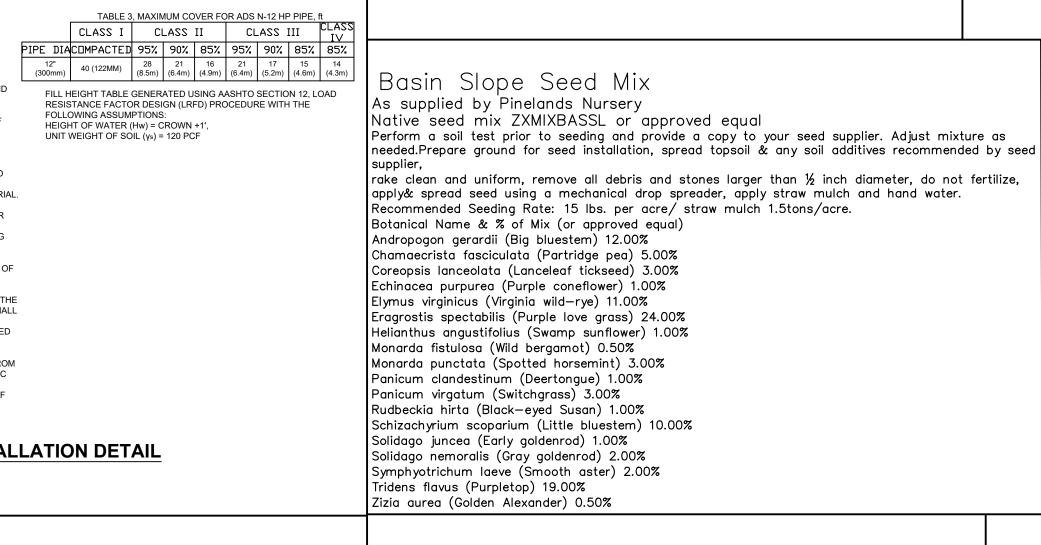
-6" THK. SOIL AGGREGATE,

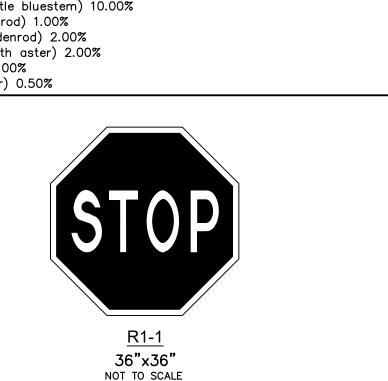




164'

CHECK DAM / OVERFLOW DETAIL





SHALL BE USED WHERE POSSIBLE CONSTRUCTION SHALL FOLLOW MEASURES AS STATED IN THE NEW JERSEY BMP MANUAL CHAPTER

EMERGENCY— EARTH BERM TOP 9.5. 4. K5 SAND SHALL MEET TEXTURAL AND PERMEABILITY SPECIFICATIONS OF A K5 SOIL AS PROVIDED IN NJAC 7:9A, APPENDIX A, FIGURE 6 AND SHALL BE CERTIFIED TO MEET THESE SPECS BY A PROFESSIONAL ENGINEER AND SUBMITTED TO THE TOWNSHIP ENGINEER FOR SECTION A-A ——<u></u> 100 YR PEAK A -TOPSOIL 12" THICK-& SEED 6" THICK K5 SAND

TYPICAL SECTION INFILTRATION AREA

Rain Garden Seed Mix As supplied by Pinelands Nursery Native seed mix ZXMIXRAING Perform a soil test prior to seeding and provide a copy to your seed supplier. Adjust mixture as needed. Prepare ground for seed installation, spread topsoil & any soil additives recommended by seed supplier, rake clean and uniform, remove all debris and stones larger than ½ inch diameter, do not fertilize, apply & spread seed using a mechanical drop spreader, apply straw mulch and hand water. Recommended Seeding Rate: 15 lbs. per acre/ straw mulch 1.5tons/acre. Botanical Name & % of Mix (or approved equal) Asclepias incarnata (Swamp milkweed) 0.30% Baptisia australis (Blue wild indigo) 0.50%

Carex lupulina (Hop sedge) 1.00% Carex lurida (Shallow sedge) 6.00% Carex stricta (Common tussock sedge) 2.00% Carex vulpinoidea (Fox sedge) 10.00% Chamaecrista fasciculata (Partridge pea) 3.00% Coreopsis lanceolata (Lanceleaf tickseed) 2.00% Echinacea purpurea (Purple coneflower) 5.00% Elymus virginicus (Virginia wild-rye) 19.00% Eupatorium perfoliatum (Boneset) 1.00% Helenium autumnale (Sneezeweed) 2.00% Heliopsis helianthoides (False sunflower) 0.45% Hibiscus moscheutos (Swamp rose mallow) 1.00% Iris versicolor (Blue-flag Iris) 0.25% Juncus effusus (Soft rush) 2.00% Lobelia siphilitica (Blue Iobelia) 1.00% Pycnanthemum incanum (hoary mountain mint) 1.00%

1. FILL MATERIAL IN INFILTRATION BASIN SHALL BE INSPECTED AND APPROVED BY A SOILS ENGINEER LICENSED IN STATE OF NEW 2. EARTHWORK OPERATIONS IN THE INFILTRATION BASIN TO BE PERFORMED WITH MEANS AND METHODS NECESSARY TO LIMIT

DURING CONSTRUCTION, PRECAUTIONS SHOULD BE TAKEN TO PREVENT BOTH SUBGRADE SOIL COMPACTION AND SEDIMENT

EXCAVATION EQUIPMENT SHOULD BE PLACED OUTSIDE THE LIMITS OF CONSTRUCTION. LIGHT WEIGHT, RUBBER - TIRED EQUIPMENT

137.80

N/A

OVERFLOW BERM/TOP LENGTH

138.00

136.00

COMPACTION OF EXISTING OR PROPOSED MATERIALS TO ACCEPTABLE LEVELS.

BOTTOM

136.00

132.92 | 135.00 | 135.75

137.58

CONTAMINATIONS

INF. AREA ESHWT

132.92

EXISTING GROUND

Pycnanthemum tenuifolium (Slender mountain mint) 1.00% Rudbeckia hirta (Black-eyed Susan) 1.00% Schizachyrium scoparium (Little bluestem) 28.00% Solidago juncea (Early goldenrod) 1.00% Solidago nemoralis (Gray goldenrod) 2.00% Solidago sempervirens (Seaside goldenrod) 1.00%

Symphyotrichum novae—angliae (New England aster) 2.00% Symphyotrichum novi-belgii (New York aster) 2.00% Verbena hastata (Blue vervain) 4.00% Zizia aurea (Golden Alexander) 0.50%

24" PLANTING MIX 8" GRAVEL— -FILTER FABRIC AROUND STONE -EXISTING SUBSOIL

TYP. SECTION BIOFILTRATION (RAINGARDEN) AREA

BIORETENTION SEED NOTES

SEE THE "SOIL EROSION AND SEDIMENT CONTROL NOTES & DETAILS" PLAN FOR TEMPORARY ACTIONS PRIOR TO THE IMPLEMENTATION OF THE BIORETENTION AREA SEEDING.

THE BASE AND SIDE SLOPES OF THE BIORETENTION AREAS ARE TO BE SEEDED WITH THE SPECIFIED GRASS SEED MIXES. AND WITH NATIVE VEGETATION SHOWN ON PLANS. SEED MIX SHOWN IS IN ADDITION TO THAT WHICH IS REQUIRED FOR PERMANENT STABILIZATION AS PER CURRENT NJ SOIL EROSION

MICRO BIORETENTION PLANTING MIX

1. THE PLANTING MIX FOR THE MICRO BIORETENTION AREAS SHALL BE WELL-MIXED COMPOSITION OF TOPSOIL, COMPOST AND SAND WITH THE FOLLOWING RATIOS BY VOLUME; 3 PARTS TOPSOIL: 1 PART COMPOST: 1 PART SAND.

1A. TOPSOIL SHALL BE A CLEAN, FRIABLE, LOAM TOPSOIL, CONTAINING NO ORGANIC MATTER, BRICKBATS OR OTHER DEBRIS, OR TOXIC MATERIALS. CONTRACTOR SHALL SUBMIT RESULTS OF A

TOPSOIL TEST TO THE PROJECT ADMINISTRATOR FOR REVIEW.

1B. COMPOST SHALL BE MATURE STABLE AND WEED FREE AND PRODUCED BY AEROBIC DECOMPOSITION OF ORGANIC MATTER. THIS PRODUCT MAY NOT CONTAIN ANY VISIBLE BE REFUSE OR OTHER PHYSICAL CONTAMINANTS SUBSTANCES TOXIC TO PLANTS OR OVER 5% SAND. SILT, CLAY OR ROCK, MATERIAL BY DRY WEIGHT. THIS PRODUCT SHALL POSSESS NO OBJECTIONABLE ODORS. THIS PRODUCT SHALL MEET ALL APPLICABLE US EPA CFR TITLE 40 PART 503 STANDARDS FOR CLASS

A BIO-SOILS. PHYSICAL REQUIREMENTS FOR COMPOST

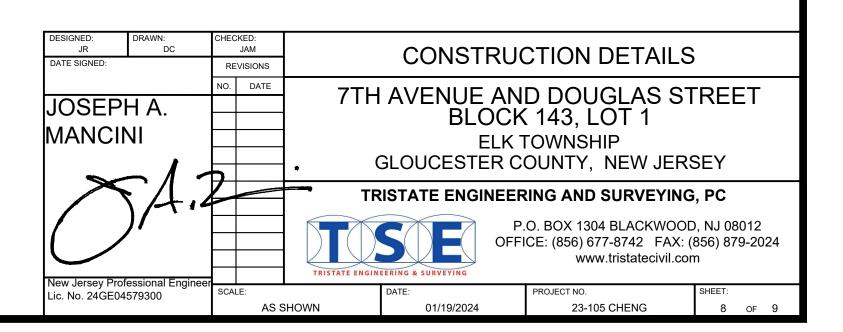
PH BETWEEN 5-8.5; SOLUBLE SALTS <10dS/m; MOISTURE 30-60% WET RATE BASIS; ORGANIC MATTER

PHYSICAL REQUIREMENTS FOR COMPOST

PHYSICAL REQUIREMENTS FOR COMPOS

30-60% DRY WEIGHT BASIS; PARTICLE SIZE 98% PASS THROUGH 3/4" SCREEN OR SMALLER; STABILITY CO2. 80% PHYSICAL CONTAMINANTS <1% DRY WEIGHT; CHEMICAL CONTAMINANTS MEET OR EXCEED US EPA CLASS A STANDARD, 40 CFR 503.13, TABLES 1&3 LEVELS. 1C. SAND SHALL BE NATURAL OR RIVER BANK SAND FREE OF ORGANIC MATERIAL, SILT, CLAY, LOAM AND

RAIN GARDEN	ESHWT	воттом	100-YEAR PEAK	OVERFLOW	BERM/TOP	LENGTH
1	131.04	134.50	137.34	N/A	137.34	N/A
2	130.00	135.00	138.45	N/A	138.45	N/A
3	131.34	135.00	137.23	N/A	137.23	N/A
4	132.92	135.00	135.57	136.90	137.00	3′



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LEXISTING GRADE

TREE PROTECTION FENCE DETAIL

DURATION

ONSTRUCTION PERIOD I

GOOD CONDITION AND

FACBRIC AND OR POST

A CONTAINER SHRUB SHALL BE IN THAT CONTAINER SUFFICIENT TIME THAT FIBROUS ROOTS ARE FORMED SO THAT THE SHAPE WILL REMAIN AND THE MEDIUM WILL HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER

SHRUB / GRASS PLANTING DETAIL

FOR B&B AND CONTAINER GROWN PLANTS

