

MINOR SUBDIVISION FOR VENKATA SURYA KIRAN AKELLA & PURNIMA KOTHAPALLI

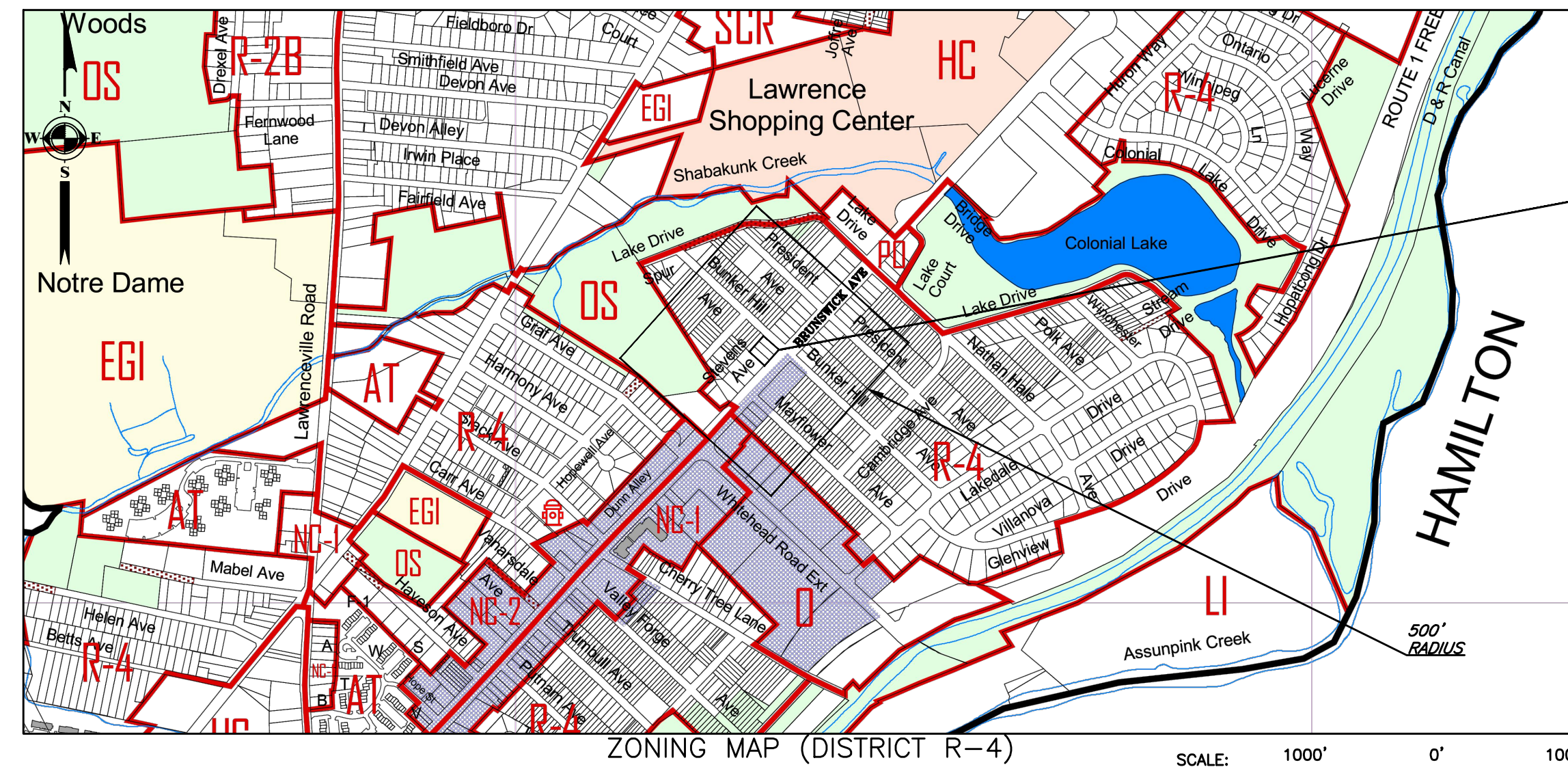
LAWRENCE TOWNSHIP, MERCER COUNTY
NEW JERSEY

Property Owners List within 200' of Block 1504, Lots 1 - 3 for Venkata Surya Kiran Akella Purnima Kothapalli

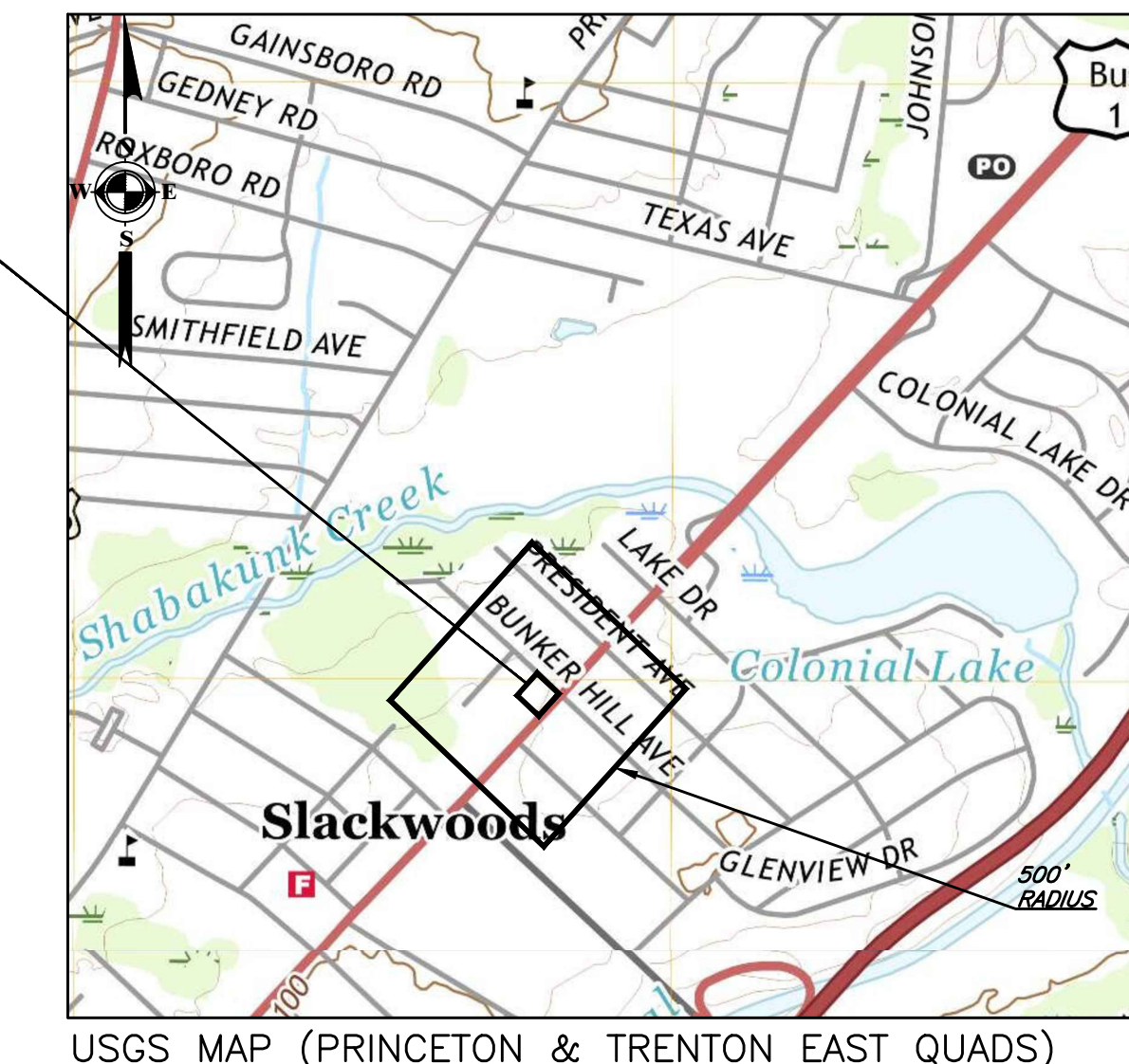
Block	Lot	Owner	Address	City / State	Zip
1504	4	MONAGHAN, PAUL ALEXANDER	2167 BRUNSWICK AVE	LAWRENCE TOWNSHIP, NJ	08648
	5	RNF HOLDINGS LLC	2155 BRUNSWICK AVE	LAWRENCE TOWNSHIP, NJ	08648
	6	DI PASTINA FAMILY PARTNERSHIP, LP	2141 BRUNSWICK AVE	LAWRENCE TOWNSHIP, NJ	08648
	8-10	FRIEDEBORN, BRUCE D & CYNTHIA M	42 FRANKLIN CR RD	LAWRENCE TOWNSHIP, NJ	08648
	11	RABANALES, FREDY J & W SANCHEZ	240 STEVENS AVE	LAWRENCE TOWNSHIP, NJ	08648
	12-15	MORRISON, ANDREW	244 STEVENS AVE	LAWRENCE TOWNSHIP, NJ	08648
	16-18	JASZEWSKI, ERIC	37 YAEGER RD	FREEHOLD, NJ	07728.8024
	19, 20	FENNIMORE, JR., LEROY R.	272 WASHINGTON XING PE RD	TITUSVILLE, NJ	08560
	21, 22	MACLEOD, CAMERON & HENRY, MEGHAN	805 BUNKER HILL AVE	LAWRENCE TOWNSHIP, NJ	08648
1505	4, 5	CAMMARATA, JOHN M	2217 BRUNSWICK AVE	LAWRENCE TOWNSHIP, NJ	08648
	6	WATTS, DANIEL & JENNIFER	2201 BRUNSWICK AVE	LAWRENCE TOWNSHIP, NJ	08648
	7-10	SCHER, SARINA ANN (LE)	806 BUNKER HILL AVE	LAWRENCE TOWNSHIP, NJ	08648
	11, 12	HAUPT, JOANNE M	810 BUNKER HILL AVE	LAWRENCE TOWNSHIP, NJ	08648
	13, 14	GOLOVINA, ANASTASIYA	812 BUNKER HILL AVE	LAWRENCE TOWNSHIP, NJ	08648
1801	53	BRUNSWICK CIRCLE PARTNERS, LLC	23 BROOKSIDE DR	TITUSVILLE, NJ	08560
1602	44.01	N J CONFERENCE OF SDA	2303 BRUNSWICK AVE	LAWRENCE TOWNSHIP, NJ	08648
1604	45, 46	BUERANO, ROMUALDO & RAMONA	2204 BRUNSWICK AVE	LAWRENCE TOWNSHIP, NJ	08648

Brenda Kraemer
Brenda Kraemer, P.E.
Assistant Municipal Engineer

SJS - akella & kothapalli (2181 & 2191 brunswick avenue)



ZONING MAP (DISTRICT R-4)
SCALE: 1000' 0' 1000'
1"=1000'



USGS MAP (PRINCETON & TRENTON EAST QUADS)
SCALE: 1000' 0' 1000'
1"=1000'

AREA, YARD, HEIGHT AND BUILDING COVERAGE TABLE (R-4 ZONE)									
CODE REFERENCE	ITEM	REQUIRED	EXISTING			PROPOSED		STATUS	
			LOT 1	LOT 2	LOT 3	LOT A	LOT B	LOT A	LOT B
407-E (1) a.	MINIMUM LOT AREA	7,500 SF	6,650 SF	6,650 SF	6,650 SF	7,980 SF	9,975 SF	C	C
407-E (1) b.	MINIMUM LOT FRONTAGE	60 FT	50 FT	50 FT	50 FT	60 FT	75 FT	C	C
407-E (1) c.	MINIMUM FRONT YARD	30 FT	29.72 FT / 9.83 FT	N/A	N/A	29.72 FT / 9.83 FT	30 FT	P*	C
407-E (1) d.	MINIMUM SIDE YARD	10 FT	6.11 FT	N/A	N/A	21.11 FT	10 FT	C	C
407-E (1) e.	MINIMUM REAR YARD	35 FT	56.12 FT	N/A	N/A	56.12 FT	45.36 FT	C	C
407-E (1) f.	MAXIMUM IMPERVIOUS SURFACE RATIO	0.60	.35	0.00	0.00	0.29	0.34	C	C
407-E (1) g.	MINIMUM USEABLE YARD AREA	20% OF EACH YARD	65%	100%	100%	71%	67%	C	C
407-E (1) h.	NEIGHBORHOOD CONTEXT DISTANCE	400 FT	400 FT	400 FT	400 FT	400 FT	400 FT	C	C
407-E (1) i.	MAXIMUM SQUARE FOOTAGE OF LIVING AREA (SFLA)	LOT A: 3,052 SF LOT B: 3,827 SF	1,363 SF	N/A	N/A	1,363 SF	3,407 SF	C	C
407-E (1) j.	MAXIMUM RATIO OF SFLA TO LOT AREA	LOT A: 0.38 LOT B: 0.38	0.20	0.00	0.00	0.17 SF	0.34 SF	C	C
407-E (4) a.	MAXIMUM BUILDING HEIGHT	35 FT	< 30 FT	N/A	N/A	< 30 FT	29.96 FT	C	C
504-N (1-3) TABLE 5.2	PARKING REQUIREMENTS	2.5 SPACES	2	N/A	N/A	2	3.5	C	C

C - CONFORMANCE
P - PRE-EXISTING CONDITION
V - VARIANCE REQUIRED
W - WAIVER REQUIRED
* REQUESTED OR OBTAINED DESIGN WAIVERS OR EXCEPTION

LIST OF REGULATORY APPROVAL OR PERMITS
MERCER COUNTY SOIL CONSERVATION DISTRICT

DRAWING INDEX	
SHEET	TITLE
1	TITLE
2	SITE PLAN
3	GRADING & UTILITY PLAN
4	EROSION & SEDIMENT CONTROL PLAN
5	EROSION & SEDIMENT CONTROL PLAN - NOTES & DETAILS
--- BOUNDARY & TOPOGRAPHIC SURVEY & SUBDIVISION PLAN PREPARED BY TRENTON ENGINEERING CO., INC	

APPLICANT
VENKATA SURYA KIRAN AKELLA & PURNIMA KOTHAPALLI
19 E 19TH STREET
BAYONNE, NJ 07002
CONTACT: PURNIMA KOTHAPALLI
PHONE: 302-373-2040
EMAIL: PURNIMAKOTHAPALLI@GMAIL.COM

OWNER
VENKATA SURYA KIRAN AKELLA & PURNIMA KOTHAPALLI
19 E 19TH STREET
BAYONNE, NJ 07002
CONTACT: PURNIMA KOTHAPALLI
PHONE: 302-373-2040
EMAIL: PURNIMAKOTHAPALLI@GMAIL.COM

ATTORNEY
JOSEPH J. CONSOLE ESQ.
CONSOLE MATISON, LLP
1500 WALNUT STREET, SUITE 900
PHILADELPHIA, PA 19102
PHONE: 267-603-2493
EMAIL: JOE@CONSOLELEGAL.COM

TOWNSHIP APPROVALS
APPROVED BY THE TOWNSHIP OF LAWRENCE PLANNING BOARD
THIS _____ DAY OF _____, 20____.
CHAIR _____
SECRETARY _____
ADMINISTRATIVE OFFICER _____
MUNICIPAL ENGINEER _____

LIST OF UTILITIES AND EMERGENCY CONTACT INFORMATION

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY NEW JERSEY ONE CALL AT 1-800-272-1000 OR THE COMMON GROUND ALLIANCE NATIONAL ONE CALL AT 811 PRIOR TO THE START OF CONSTRUCTION. CALL FOR MARKOUTS THREE (3) FULL BUSINESS DAYS IN ADVANCE AND BEGIN EXCAVATION WITHIN 10 DAYS. ALL CONTRACTORS ON-SITE MUST HAVE THEIR OWN MARKOUT.

THE CONTRACTOR SHALL LOCATE, BOTH IN PLAN AND ELEVATION, ALL EXISTING UTILITIES AND SERVICES WITHIN THE AREA OF CONSTRUCTION.

EWING-LAWRENCE SEWERAGE AUTHORITY
600 WHITEHEAD ROAD, LAWRENCEVILLE, NJ 08648
609-989-4061

NJ AMERICAN WATER
1025 LAUREL OAK ROAD, VOORHEES, NJ 08043
856-346-8200

TRENTON WATER WORKS
P.O. BOX 528, TRENTON, NJ 08604
609-989-3055

AQUA WATER COMPANY
2875 ERIAL ROAD, ERIAL, NJ 08081
856-784-3322

RCN CORPORATION
105 CARNEGIE CENTER, PRINCETON, NJ 08540
800-746-4726

MERCER COUNTY PLANNING BOARD
640 SOUTH BROAD STREET, P.O. BOX 8068
TRENTON, NJ 08650
609-989-6545

SUN PIPE LINE COMPANY
1801 MARKET STREET, 26TH FLOOR
PHILADELPHIA, PA 19103-1699
215-977-3000

SUNOCO PIPE LINE, LP - RIGHT OF WAY
MONTELLO COMPLEX
525 FRITZTOWN ROAD, SINKING SPRING, PA 19808
610-670-3200

PSE&G - GAS & ELECTRIC DIVISIONS
410 ROUTE 130 S. BORDENTOWN, NJ 08050,
484-269-2178

ELIZABETHTOWN GAS COMPANY
1 ELIZABETHTOWN PLAZA, 3RD FLOOR EAST
UNION, NJ 07083-1975
800-242-5830

VERIZON
540 BROAD STREET, NEWARK, NJ 07101
800-483-7988

COMCAST CABLEVISION
940 PROSPECT STREET, TRENTON, NJ 08618
609-394-2288

AT&T
1 AT&T WAY, BEDMINSTER, NJ 07921
800-331-0500

JERSEY CENTRAL POWER AND LIGHT
300 MADISON AVENUE, MORRISTOWN, NJ 07962
800-662-3115

TRANSCONTINENTAL GAS PIPE LINE CORPORATION
2800 OAK BOULEVARD, HOUSTON, TX 77056
713-215-2000

NJ DEPARTMENT OF TRANSPORTATION
1035 PARKWAY AVENUE, TRENTON, NJ 08625
609-963-1982

CERTIFICATION OF OWNERSHIP
STATE OF NEW JERSEY SS:
COUNTY OF MERCER

ON THIS _____ DAY OF _____, 20____ BEFORE ME, THE UNDERSIGNED OWNER/OFFICER PERSONALLY

APPEARED _____ WHO, BEING DULY SWORN ACCORDING TO LAW, DEPOSE AND SAY THAT HE/SHE IS THE OWNER AND/OR EQUITABLE OWNER OF THE PROPERTY SHOWN ON THIS PLAN, AND THAT THEY ACKNOWLEDGE THE SAME TO BE THEIR ACT AND PLAN, AND DESIRE THE SAME TO BE RECORDED AS SUCH, ACCORDING TO LAW.

OWNER'S SIGNATURE _____

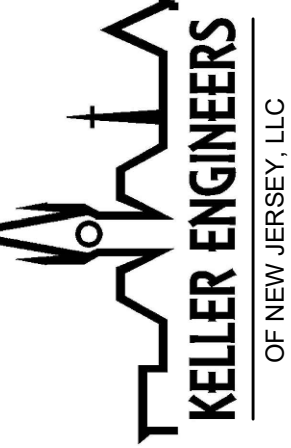
OWNER'S NAME (PRINTED) _____

OWNER'S TITLE _____

NOTARY PUBLIC SIGNATURE _____

MY COMMISSION EXPIRES _____
STAMP _____

121 Market Street, 2nd Floor
Camden, NJ 08102
P: (856) 536-3169
www.keller-engineers.com
COA Number: 24GA28276100



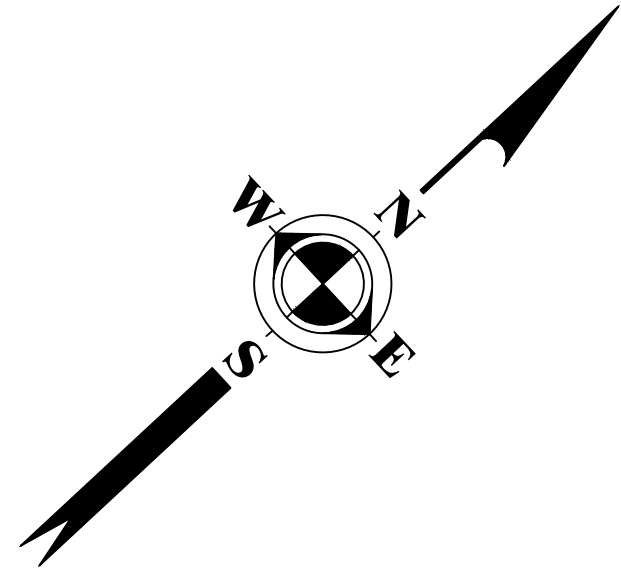
SAMIR D. MODY, P.E.
LICENSE NO. 246534980

DATE & INITIALS	REVISION DESCRIPTION

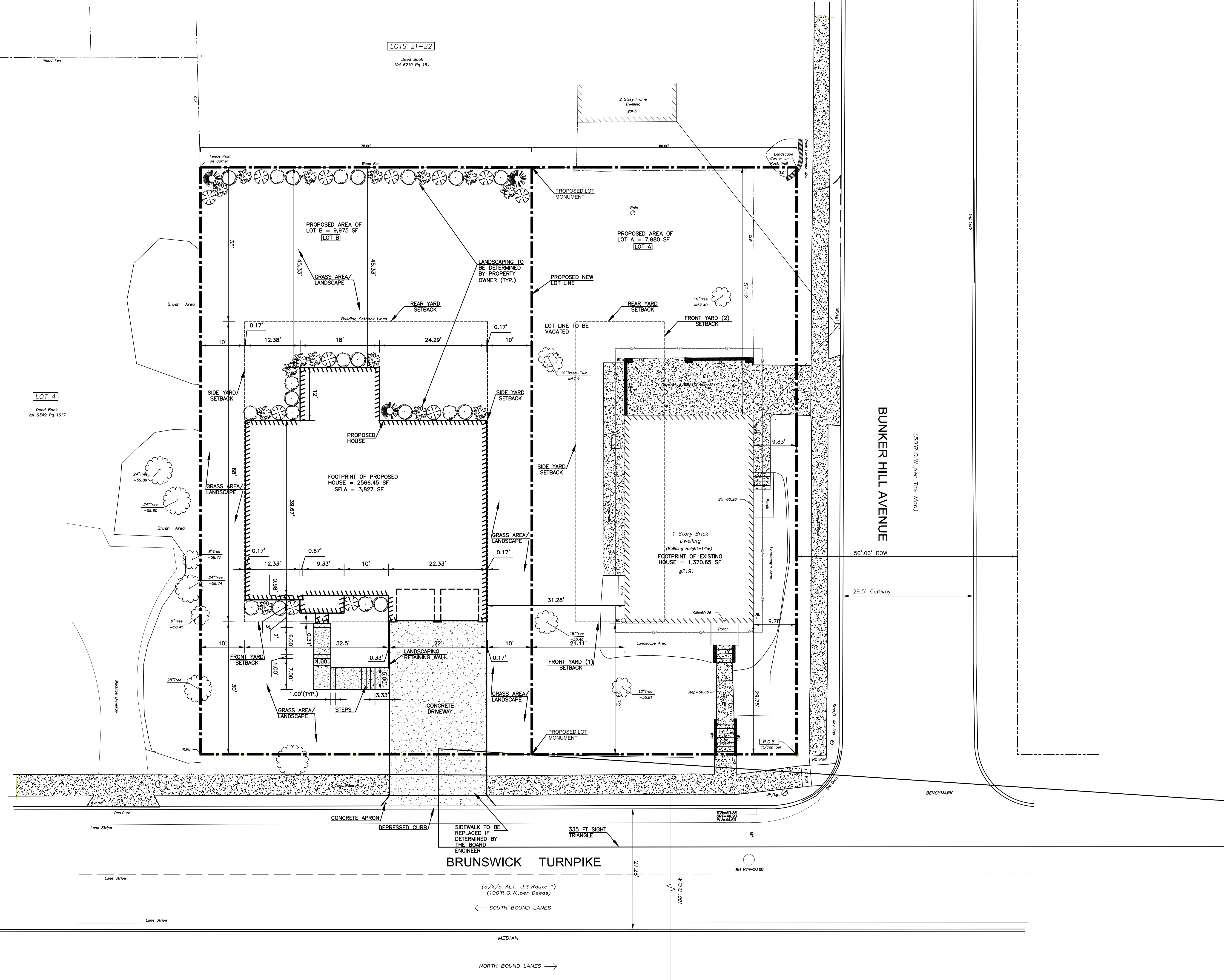
TITLE
MINOR SUBDIVISION
TAX MAP SHEET NUMBER 15
BLOCK 1504, LOT 1, 2, & 3
2181-2191 BRUNSWICK AVENUE
LAWRENCE TOWNSHIP, MERCER COUNTY
NEW JERSEY

4445-1
PROJECT NO.:
FILE NAME:
DATE: 04/12/2023
DESIGNED BY: SA
DRAWN BY: SV/BMB
CHECKED BY: SMM

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TECO PLAN 86-45 9-16-85



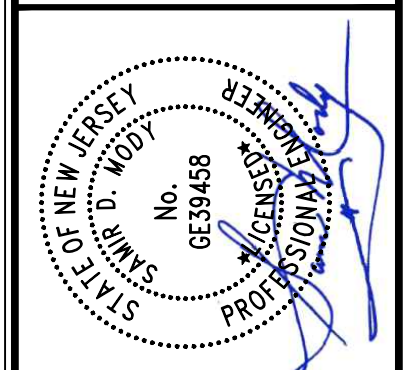
LOT 4
Deed Book
Vol 6349 Pg 1617

LOTS 21-22
Deed Book
Vol 6219 Pg 164

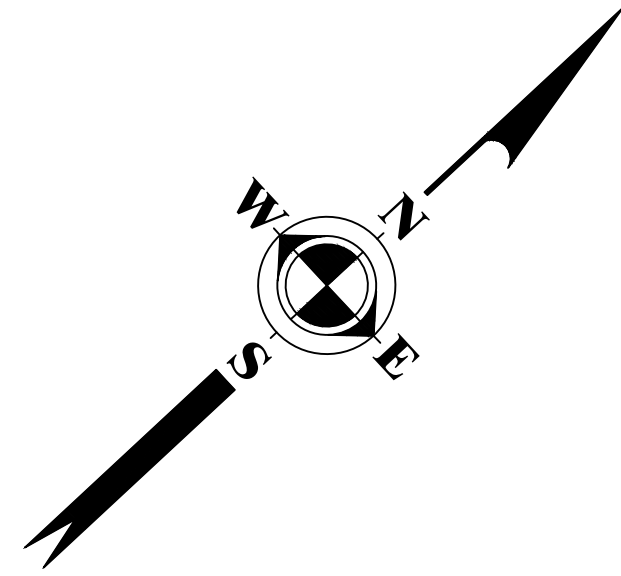
PROJECT NO.:	4455-1
FILE NAME:	03 SITE PLAN
DATE:	04/12/2023
DESIGNED BY:	SA
DRAWN BY:	SA/BMP
CHECKED BY:	SJM

SITE PLAN
MINOR SUBDIVISION
TAX MAP SHEET NUMBER 15
BLOCK 1504, LOT 1, 2, & 3
2181-2191 BRUNSWICK AVENUE
LAWRENCE TOWNSHIP, MERCER COUNTY
NEW JERSEY

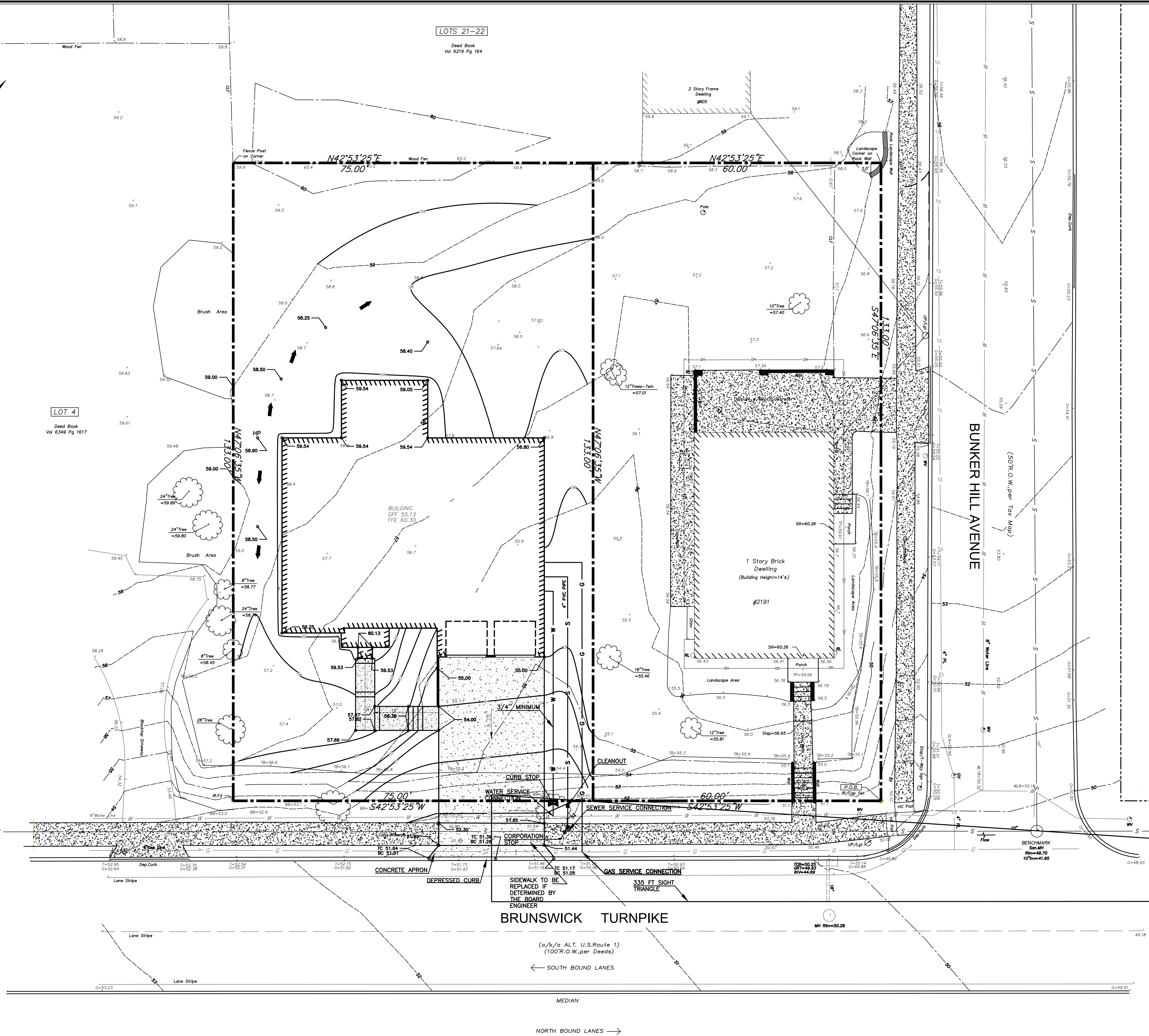
DATE & INITIALS	REVISION DESCRIPTION



KELLER ENGINEERS
OF NEW JERSEY, LLC
121 Market Street, 2nd Floor
Camden, NJ 08102
P: (856) 536-3169
www.keller-engineers.com
COA Number: 24GA28276100



TECO PLAN 86-45 9-16-85



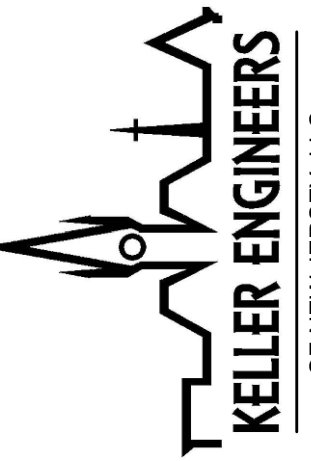
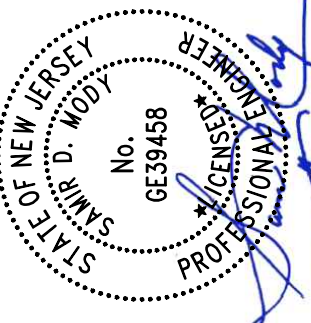
BRUNSWICK TURNPIKE

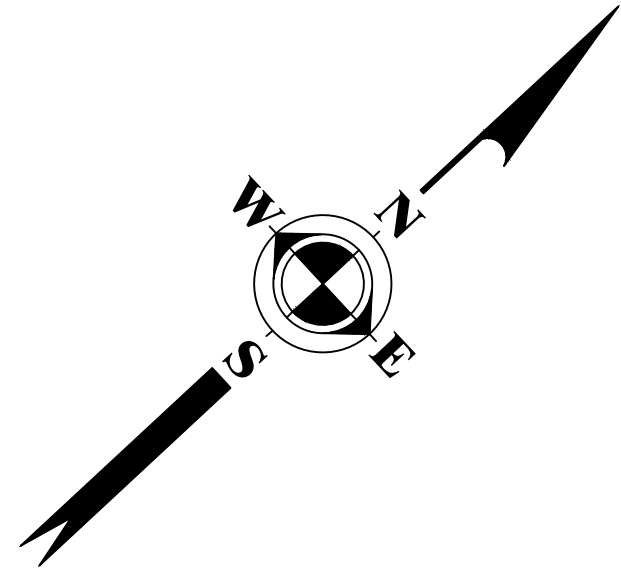
(g/k/g ALT. U.S. Route 1)
(100' R.O.W. per Deeds)

← SOUTH BOUND LANES

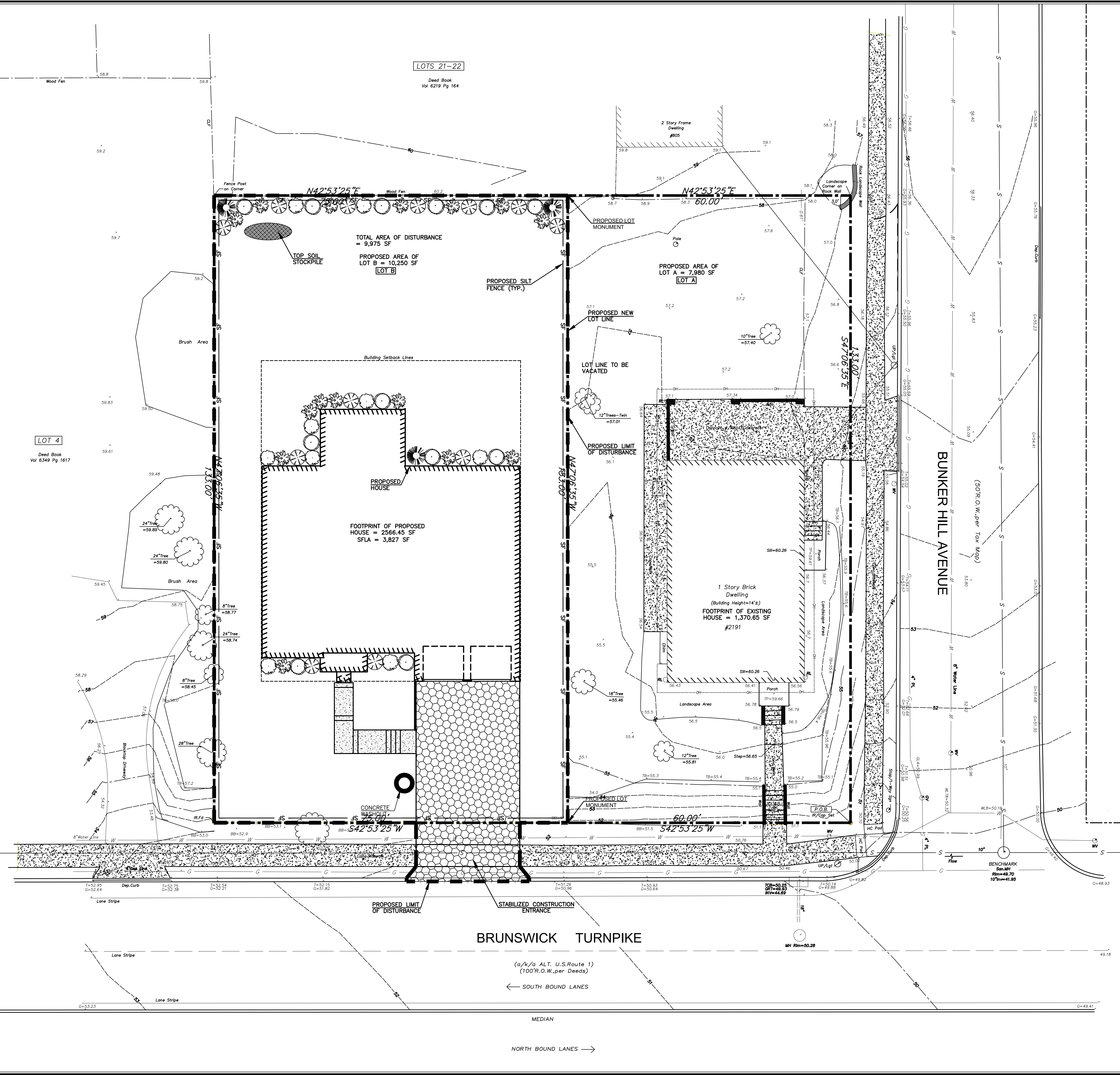
MEDIAN

→ NORTH BOUND LANES

 KELLER ENGINEERS <small>OF NEW JERSEY, LLC</small>							
121 Market Street, 2nd Floor Camden, NJ 08102 P: (856) 536-3169 www.keller-engineers.com COA Number: 24GA28276100							
							
GRADING & UTILITY PLAN MINOR SUBDIVISION TAX MAP SHEET NUMBER 15 BLOCK 1504, LOT 1, 2, & 3 2181-2191 BRUNSWICK AVENUE <small>LAWRENCE TOWNSHIP, MERCER COUNTY, NEW JERSEY</small>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">DATE & INITIALS</td> <td style="width: 40%;">REVISION DESCRIPTION</td> <td style="width: 30%;">SCALE: 1"=10'</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	DATE & INITIALS	REVISION DESCRIPTION	SCALE: 1"=10'			
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PROJECT NO.: 4455-1 FILE NAME: 04 GRADING DESIGNED BY: 04/12/2015 DRAWN BY: SA/BMP CHECKED BY: SIM	3						

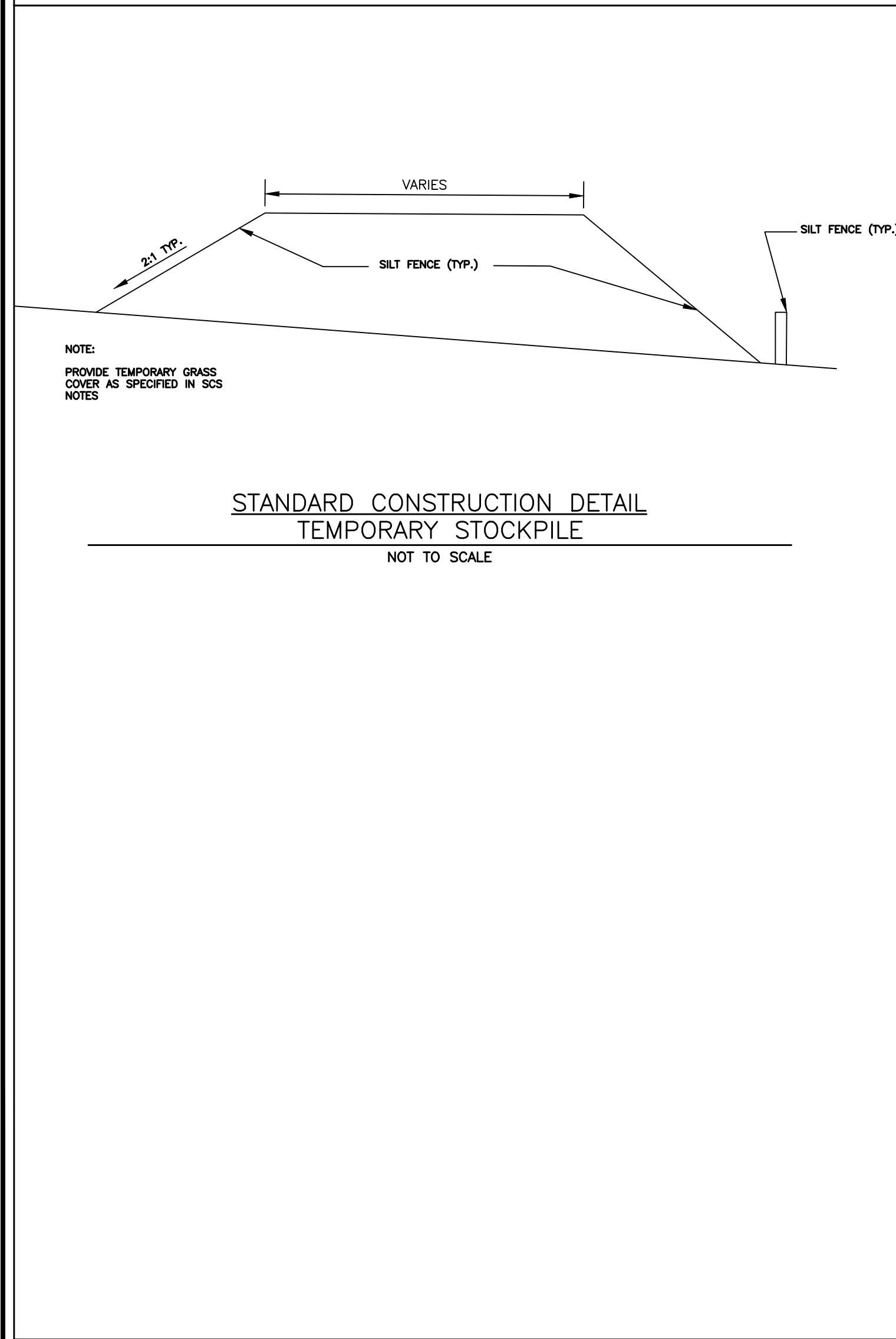
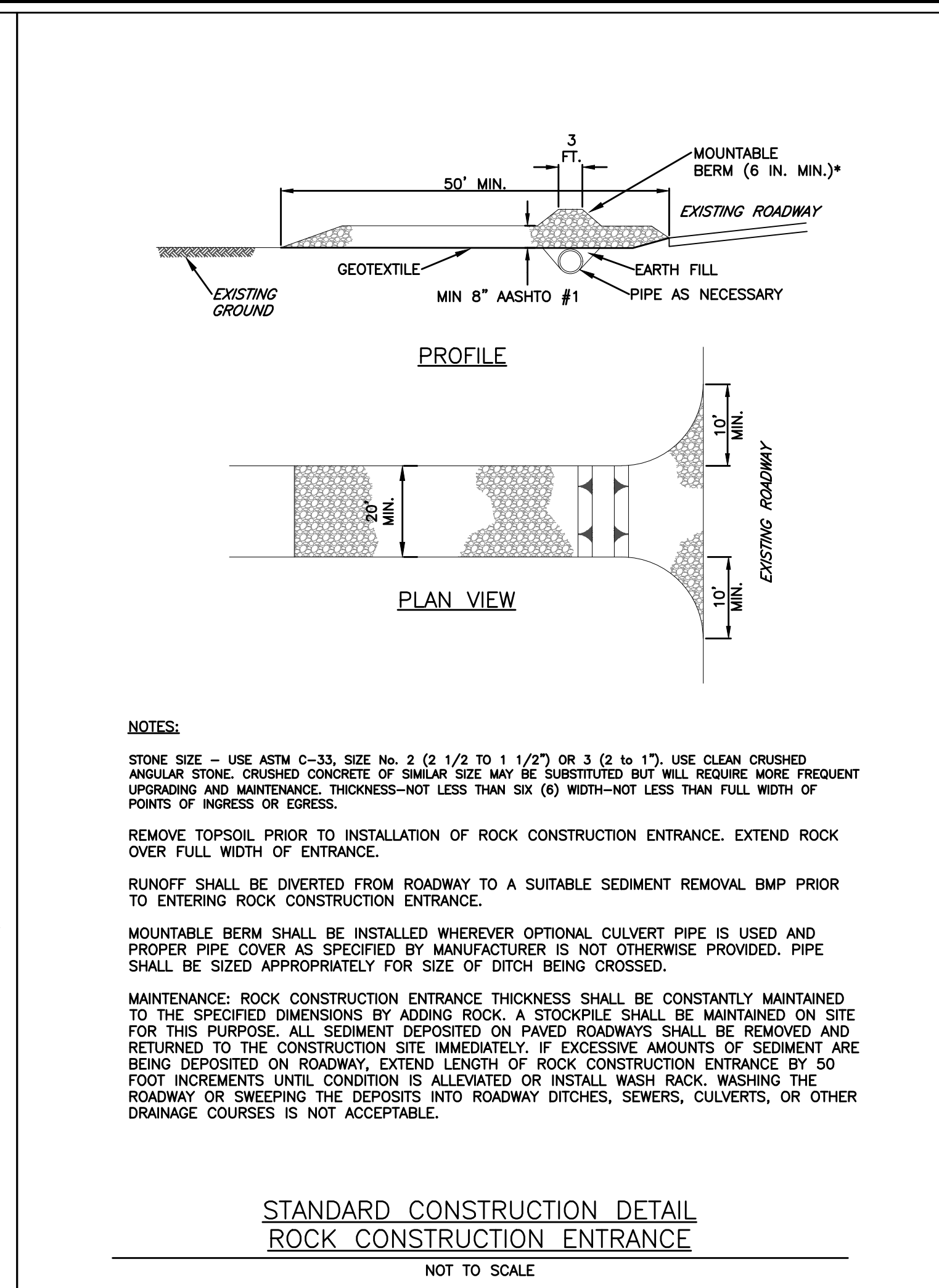
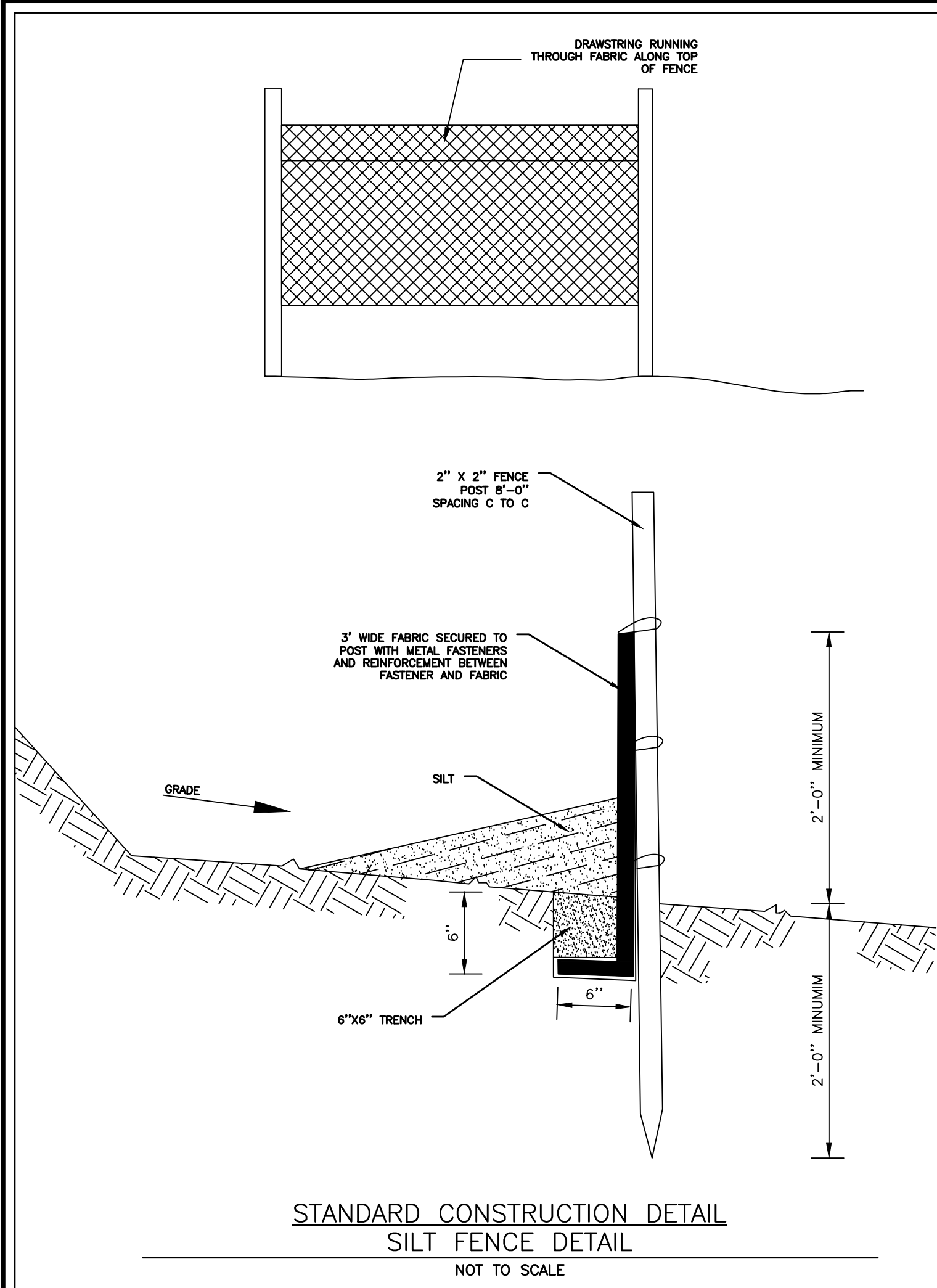


TECO PLAN 86-45 9-16-85



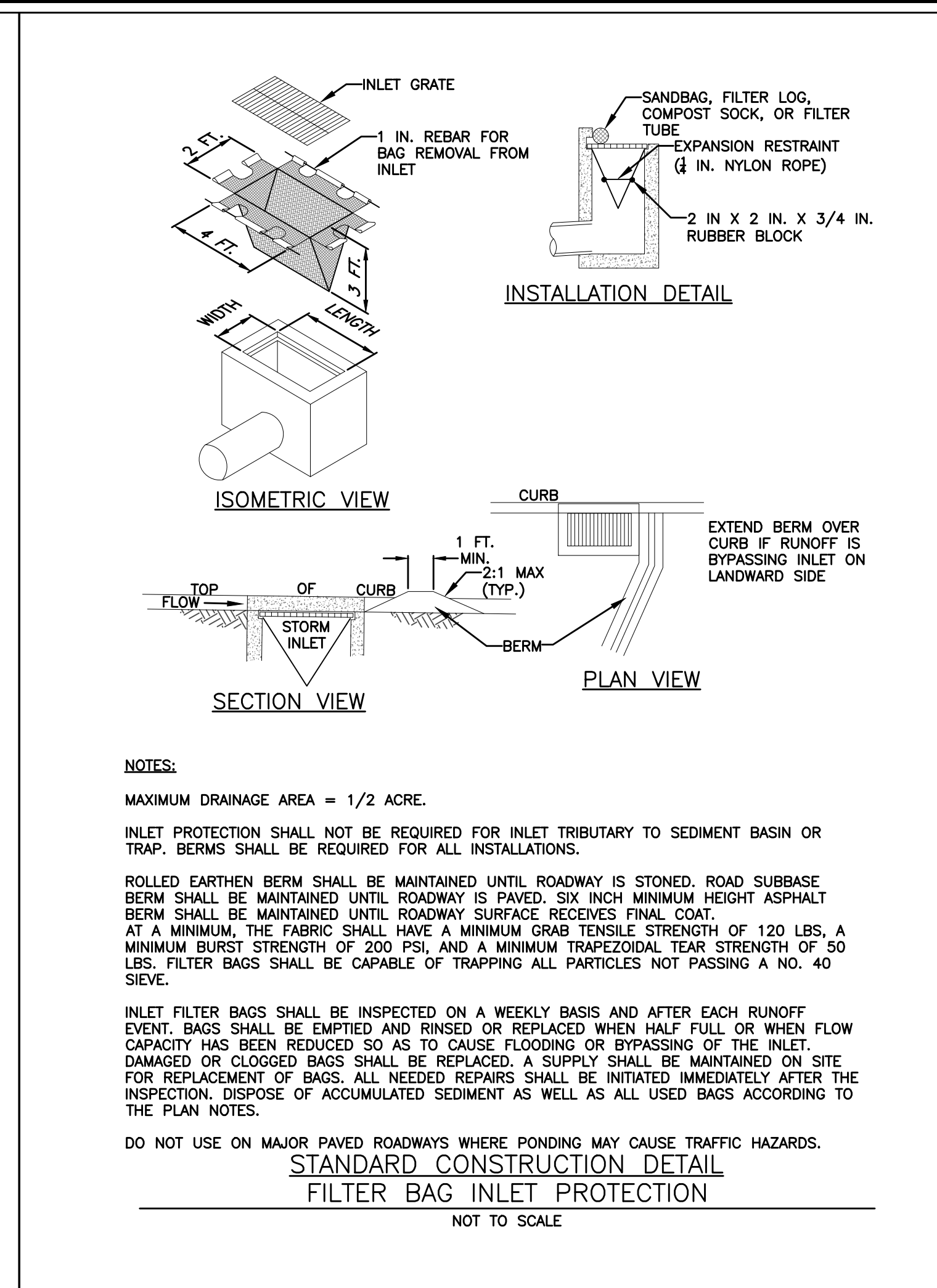
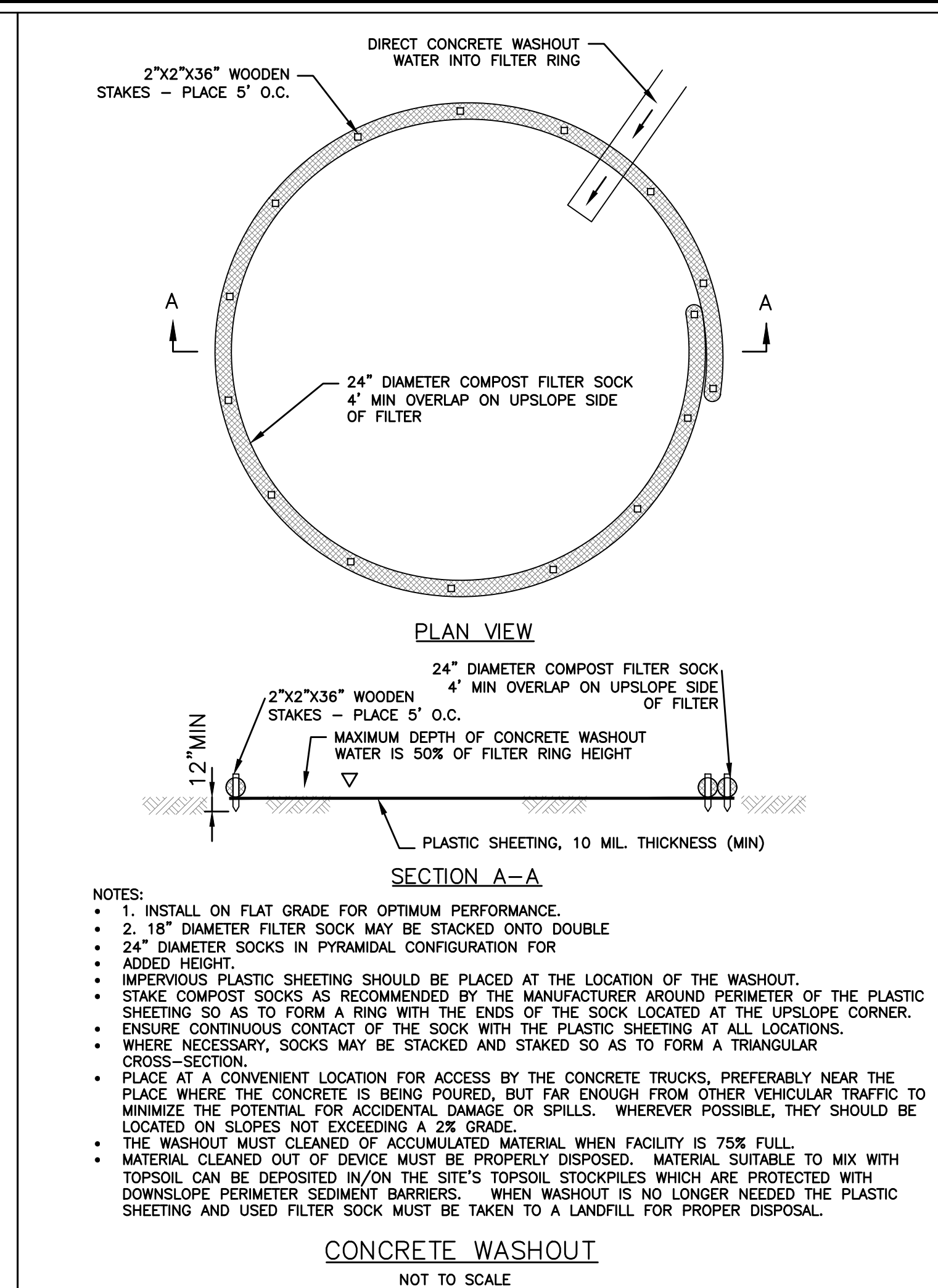
EROSION & SEDIMENTATION CONTROL PLAN MINOR SUBDIVISION TAX MAP SHEET NUMBER 15 BLOCK 1504, LOT 1, 2, & 3 2181-2191 BRUNSWICK AVENUE LAWRENCE TOWNSHIP, MERCER COUNTY NEW JERSEY	
PROJECT NO.: 4455-1 FILE NAME: 05_SESC DATE: 04/12/2023 DESIGNED BY: SA DRAWN BY: SA/BMP CHECKED BY: SMM	KELLER ENGINEERS, ITS EXPRESSLY RESERVES ITS COMMON LAW COPYRIGHT AND ALL RIGHTS IN THE PLANS AND DESIGNS. THEY ARE TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. ANY COPIES OR ALTERATIONS MADE WITHOUT THE WRITTEN PERMISSION AND CONSENT OF KELLER ENGINEERS.
DATE & INITIALS REVISION DESCRIPTION SCALE: 1"=10' 0' 10' 10'	KELLER ENGINEERS OF NEW JERSEY, LLC 121 Market Street, 2nd Floor Camden, NJ 08102 P: (856) 536-3169 www.keller-engineers.com COA Number: 24GA28276100

ES1



MERCER COUNTY SOIL CONSERVATION DISTRICT - REQUIRED SOIL EROSION AND SEDIMENT CONTROL NOTES
UPDATED AUGUST 2014 (FOR INCLUSION ON ALL SESC PLANS SUBMITTED FOR REVIEW AND CERTIFICATION)

1. THE MERCER COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 48 HOURS PRIOR TO STARTING LAND DISTURBANCE ACTIVITY. NOTICE MAY BE MAILED, FAXED OR EMAILED TO:
MERCER COUNTY SOIL CONSERVATION DISTRICT, 563 PERMIT (NJC0008823) VIA THE NJDEP ONLINE PERMITTING SYSTEM
PHONE: 609-586-9603 FAX: 609-586-1117 EMAIL: PAULSI@MERCERCOAL.COM
2. IF APPLICABLE TO THIS PROJECT, THE OWNER SHOULD BE AWARE OF HIS OR HER OBLIGATION TO FILE FOR A NJDEP CONSTRUCTION ACTIVITY STORMWATER PERMIT (NJC0008823) VIA THE NJDEP ONLINE PERMITTING SYSTEM (WWW.NJDEP/ONLINE) AND TO MAINTAIN THE ASSOCIATED BEST MANAGEMENT PRACTICES AND STORMWATER POLLUTION PREVENTION PLAN SELF-INSPECTION LOGBOOK ON SITE AT ALL TIMES. THIS PERMIT MUST BE FILED PRIOR TO THE START OF SOIL DISTURBANCE. THE ONLINE APPLICATION PROCESS WILL REQUIRE ENTRY OF AN SCD CERTIFICATION CODE, WHICH IS PROVIDED BY THE SOIL CONSERVATION DISTRICT UPON CERTIFICATION OF THE SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE DISTRICT FOR RECERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION & SEDIMENT CONTROL STANDARDS.
3. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON SITE AT ALL TIMES.
4. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE AS OUTLINED WITHIN THE SEQUENCE OF CONSTRUCTION ON THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN N.J. LANGUAGE CONTAINED WITHIN ANY OTHER PERMIT IF THIS PROJECT IS MORE RESTRICTIVE THAN (BUT NOT CONTRADICTORY TO) WHAT IS CONTAINED WITHIN THESE NOTES OR ON THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN, THEN THE MORE RESTRICTIVE PERMIT REQUIREMENTS SHALL BE FOLLOWED.
6. THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A 1 1/2' TO 2 1/2' CLEAN STONE TRACKING PAD AT ALL CONSTRUCTION DRIVEWAYS IMMEDIATELY AFTER INITIAL SITE DISTURBANCE, WHETHER IDENTIFIED ON THE CERTIFIED PLAN OR NOT. THE WIDTH SHALL SPAN THE FULL WIDTH OF EGRESS, AND LENGTH SHALL BE 50 FT. OR MORE, DEPENDING ON SITE CONDITIONS AND AS REQUIRED BY THE STANDARD. THIS SHALL INCLUDE INDIVIDUAL LOT ACCESS POINTS WITHIN RESIDENTIAL SUBDIVISIONS. IF THE EGRESS IS TO A COUNTY ROAD, THEN A 20 FT. LONG PAVED TRANSITION SHALL BE PROVIDED BETWEEN THE EDGE OF PAVEMENT AND THE STONE ACCESS PAD.
7. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OF PRELIMINARY GRADING, PROVIDED THAT ALL OTHER REQUIREMENTS RELATED TO DETENTION BASINS, SWALES AND THE SEQUENCE OF CONSTRUCTION HAVE BEEN MET.
8. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 14 DAYS AND NOT SUBJECT TO CONSTRUCTION ACTIVITY IMMEDIATELY SHALL BE STABILIZED WITHIN 14 DAYS OF EXPOSURE. THE ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER, OR IF THE AREA IS NOT TOPSOILED, THEN THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS. SLOPED AREAS IN EXCESS OF 3H:1V SHALL BE PROVIDED WITH EROSION CONTROL BLANKETS. CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES, ROADWAY EMBANKMENTS, ENVIRONMENTALLY SENSITIVE AREAS) WILL RECEIVE TEMPORARY STABILIZATION IMMEDIATELY AFTER AN INITIAL DISTURBANCE OR ROUGH GRADING.
9. ANY STEEP SLOPES (I.E. SLOPES GREATER THAN 3:1) RECEIVING PIPELINE OR UTILITY INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS.
10. PERMANENT VEGETATION SHALL BE SEEDING OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING AND TOPSOILING. ALL AGRONOMIC REQUIREMENTS CONTAINED WITHIN THE STANDARDS AND ON THE CERTIFIED PLAN SHALL BE EMPLOYED. MULCH WITH A BINDER, IN ACCORDANCE WITH THE STANDARDS, SHALL BE USED ON ALL SEEDED AREAS. SAVE ALL TAGS AND/OR BAGS USED FOR SEED, LIME, AND FERTILIZER, AND PROVIDE THEM TO THE DISTRICT INSPECTOR TO VERIFY THAT MIXTURES MEET THE STANDARDS.
11. AT THE TIME WHEN 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 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, THEN NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
12. DURING THE COURSE OF CONSTRUCTION, SOIL COMPACTION MAY OCCUR WITHIN HAUL ROUTES, STAGING AREAS, AND OTHER PROJECT AREAS. IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING, COMPACTED SOIL SHOULD BE REWORKED TO 6" TO 12" IMMEDIATELY PRIOR TO TOPSOIL APPLICATION. THIS WILL HELP ENSURE A GOOD BOND BETWEEN THE TOPSOIL AND SUBSOIL. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).
13. PRIOR TO SEEDING, TOPSOIL SHALL BE WORKED TO PREPARE A PROPER SEEDBED. THIS SHALL INCLUDE RAKING OF THE TOPSOIL AND REMOVAL OF DEBRIS AND STONES, ALONG WITH OTHER REQUIREMENTS OF THE STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION.
14. IN ACCORDANCE WITH THE STANDARD FOR SEEDING, HYDRO-MULCH SHOULD BE APPLIED AT A MINIMUM RATE OF 1500 LBS. PER ACRE IN THE SECOND STEP. THE USE OF HYDRO-MULCH, AS OPPOSED TO STRAW, IS LIMITED TO OPTIMUM SEEDING DATES AS LISTED IN THE STANDARDS. THE USE OF HYDROMULCH ON SLOPED AREAS IS DISCOURAGED.
15. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ADJACENT ROADS CLEAN DURING THE LIFE OF THE CONSTRUCTION PROJECT. ALL SEDIMENT WASHED, DROPPED, TRACKED OR SPILLED ONTO PAVED SURFACES SHALL BE IMMEDIATELY REMOVED.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDIATING ANY EROSION OR SEDIMENT PROBLEMS THAT ARISE AS A RESULT OF ONGOING CONSTRUCTION, AND FOR EMPLOYING ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AT THE REQUEST OF THE MERCER COUNTY SOIL CONSERVATION DISTRICT.
17. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.



22. ALL DETENTION / RETENTION BASINS MUST BE FULLY CONSTRUCTED (INCLUDING ALL STRUCTURAL COMPONENTS AND LINERS) AND PERMANENTLY STABILIZED PRIOR TO PAVING OR PRIOR TO THE ADDITION OF ANY IMPERVIOUS SURFACES. PERMANENT STABILIZATION INCLUDES, BUT MAY NOT BE LIMITED TO: TOPSOIL, SEED, STRAW MULCH AND BINDERS OR EROSION CONTROL BLANKETS ON ALL SEEDING. ALL AGRONOMIC REQUIREMENTS AS SPECIFIED ON THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN, INSTALLATION OF THE OUTFLOW CONTROL STRUCTURES AND DISCHARGE STORM DRAINAGE PIPING, LOW FLOW CHANNELS, CONDUIT OUTLET PROTECTION, EMERGENCY SPILLWAYS, AND LAP RING PROTECTION.

23. THE RIDING SURFACE OF ALL UTILITY TRENCHES WITHIN PAVED AREAS SHALL BE 3/4" CLEAN STONE OR BASE PAVEMENT UNTIL SUCH TIME AS FINAL PAVEMENT HAS BEEN INSTALLED. TEMPORARY SOIL RIDING SURFACES ARE PROHIBITED.

24. ALL CONSTRUCTION DEWATERING (TRENCHES, EXCAVATIONS, ETC.) MUST BE DONE THROUGH AN INLET OR OUTLET FILTER IN ACCORDANCE WITH THE STANDARD FOR DEWATERING OR AS DEPICTED ON THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN. DISCHARGE LOCATIONS FOR THE DEWATERING OPERATION MUST CONTAIN PERENNIAL VEGETATION OR A SIMILAR STABLE SURFACE.

25. ALL CONSTRUCTION DEWATERING (TRENCHES, EXCAVATIONS, ETC.) MUST BE DONE THROUGH AN INLET OR OUTLET FILTER IN ACCORDANCE WITH THE STANDARD FOR DEWATERING OR AS DEPICTED ON THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN. DISCHARGE LOCATIONS FOR THE DEWATERING OPERATION MUST CONTAIN PERENNIAL VEGETATION OR SIMILAR STABLE SURFACE.

26. ALL SWALES OR CHANNELS THAT WILL RECEIVE RUNOFF FROM PAVED SURFACES MUST BE PERMANENTLY STABILIZED PRIOR TO THE INSTALLATION OF PAVEMENT. IF THE SEASON PROHIBITS THE ESTABLISHMENT OF PERMANENT STABILIZATION, THE SWALES OR CHANNELS MAY BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE STANDARDS.

27. N.J.S.A. 4:24-39 ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY BE ISSUED BY THE MUNICIPALITY BEFORE THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN SATISFIED. THEREFORE, ALL SITE WORK FOR SITE PLANS AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS MUST BE COMPLETED BEFORE THE DISTRICT ISSUES A REPORT OF COMPLIANCE OR CONDITIONAL REPORT OF COMPLIANCE, WHICH MUST BE FORWARDED TO THE MUNICIPALITY PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY, RESPECTIVELY.

MERCER COUNTY SOIL CONSERVATION DISTRICT
590 HUGHES DRIVE
HAMILTON SQUARE, N.J. 08690

TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

- 1.1. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
- 1.2. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS AND WATERWAYS.
- 1.3. SEEDBED PREPARATION
- 2.1. APPLY LIMESTONE AND FERTILIZER. 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. APPLY LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDES) AS FOLLOWS.

SOIL TEXTURE	TONS/ACRE	LBS/1000 SF
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH OF THE NEW BRUNSWICK - TRENTON LINE.

- 2.2. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED IS PREPARED.
- 2.3. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AS ABOVE.
- 2.4. SOILS HIGH ON SULFIDES OR HAVING A PH OF 4 OR LESS SHOULD BE MULCHED ONLY.
3. SEEDING
- 3.1. SEE TEMPORARY SEED MIXTURE FOR SPECIES AND APPLICATION RATES.
- 3.2. SEED UNIFORMLY BY HAND, CYCLONE(CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. MULCH SHALL NOT BE INCLUDED IN A HYDRO SEEDER TANK WITH SEED. SEED SHALL BE INCORPORATED INTO THE SOIL BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COURSE TEXTURED SOIL.
- 3.3. AFTER SEEDING, THE SOIL SHALL BE PERFORMED WITH A CORRUGATED ROLLER TO ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING EMERGENCE.

PERMANENT SEEDING MIXTURE (DRY)

THIS SEEDING MIXTURE IS COMPOSED OF DROUGHT-TOLERANT SPECIES WHICH CAN THRIVE WITH LOW MAINTENANCE. THE PROPRIETARY NAME OF THE MIXTURE IS RECLAIM CONSERVATION MIX-DRY FORMULA AS MANUFACTURED BY LOFTS, INC., BOUND BROOK, N.J. 08805, (800)526-3890. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.

%	COMMON NAME	BOTANICAL NAME
40%	CLEMFINE TALL FESCUE	FESTUCA ARUNDINACEA "CLEMFINE"
20%	WEeping LOVEGRASS	ERAGRIS CURVULA
15%	RELIANT HARD FESCUE	FESTUCA LONGIFOLIA "RELIANT"
10%	JAMESTOWN CHEWINGS FESCUE	FESTUCA RUBRA VAR. COMUTATA "JAMESTOWN"
10%	PALMER PERENNIAL RYE	LOLIUM PERENNE "PALMER"
5%	WHITE CLOVER	TRIFOLIUM REPENS
5%	BLACKWELL SWITCHGRASS	PANICUM VIRGATUM "BLACKWELL"

PERMANENT SEEDING MIXTURE (MOIST)

THIS SEEDING MIXTURE IS COMPOSED OF MOISTURE-TOLERANT SPECIES WHICH CAN THRIVE WITH LOW MAINTENANCE. THE PROPRIETARY NAME OF THE MIXTURE IS RECLAIM CONSERVATION MIX-MOIST FORMULA AS MANUFACTURED BY LOFTS, INC., BOUND BROOK, N.J. 08805, (800) 526-3890. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.

%	COMMON NAME	BOTANICAL NAME
55%	CLEMFINE TALL FESCUE	FESTUCA ARUNDINACEA "CLEMFINE"
15%	NASSAU KENTUCKY BLUEGRASS	POA PRATENSIS "NASSAU"
10%	PALMER PERENNIAL RYE	LOLIUM PERENNE "PALMER"
10%	LASER POA TRIVIALIS	POA TRIVIALIS "LASER"
5%	STREAKER REDTOP	AGROSTIS ALBA "STREAKER"
5%	REED CANARY GRASS	PHALARIS ARUNDINACEA

THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE SIX (6) POUNDS/1000 SQUARE FEET. RECOMMENDED SEEDING PERIODS ARE APRIL 1-MAY 31 AND AUGUST 16-OCTOBER 15. SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION.

STANDARD FOR DUST CONTROL

DEFINITION
THE CONTROL OF DUST ON CONSTRUCTION SITES AND ROADS.

PURPOSE
TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF-SITE DAMAGE AND HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.

WHERE APPLICABLE
THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON- AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT. CONSULT WITH LOCAL MUNICIPAL ORDINANCES ON ANY RESTRICTIONS.

PLANNING CRITERIA
THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST; MULCHES: SEE STANDARDS FOR STABILIZATION WITH MULCHES ONLY (P.3.3.1).
VEGETATIVE COVER: SEE STANDARDS FOR: TEMPORARY VEGETATIVE COVER (P.3.1.1), PERMANENT VEGETATIVE COVER (P.3.2.1).
VEGETATIVE COVER: SEE STANDARDS FOR: (P.3.6. 1).
SPRAY ON ADHESIVES: ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.
TILLAGE: TO ROUGHEN SURFACE AND BRING SLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL TYPE PLOWS SPACED ABOUT 12 INCHES APART, AND SPRING TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PROVIDE THE DESIRED EFFECT.
SPRINKLING: SITE IS SPRINKLED UNTIL THE SURFACE IS WET.
BARRIERS: SOLID BOARD FENCES, SNOW FENCE, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIALS CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.
CALCIUM CHLORIDE: SHALL BE IN THE FORM OF LOOSE, DRY GRANULAR OR FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP PAVEMENT MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS OR ACCUMULATION AROUND PLANTS.

PROJECT CONSTRUCTION SEQUENCE:

1. INSTALL SOIL EROSION AND SEDIMENT MEASURES.
2. CLEAR AND GRUB AREA OF CONSTRUCTION.
3. ROUGH GRADE SITE.
4. CONSTRUCT THE HOUSE.
5. CONSTRUCT UTILITIES, CURB, AND SIDEWALK.
6. CONSTRUCT SUBBASE COURSE FOR CONCRETE APRONS, DRIVEWAY, AND BUILDING.
7. CONSTRUCT CONCRETE APRONS AND DRIVEWAY.
8. STABILIZE SITE WITH PERMANENT VEGETATIVE COVER AND INSTALL LANDSCAPING.
9. REMOVE EROSION AND SEDIMENT CONTROL MEASURES.

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KELLER ENGINEERS
OF NEW JERSEY, LLC

STATE OF NEW JERSEY
COUNTY OF MERCER
No. 639498
PROFESSIONAL ENGINEER

EROSION & SEDIMENTATION CONTROL - NOTES & DETAILS
MINOR SUBDIVISION
TAX MAP SHEET NUMBER 15
BLOCK 1504, LOT 1, 2, & 3
2181-2191 BRUNSWICK AVENUE
LAWRENCE TOWNSHIP, MERCER COUNTY
NEW JERSEY

PROJECT NO.: 4485-02
FILE NAME: SESC
DATE: 04/12/2023
DESIGNED BY: SA
DRAWN BY: SA/BMP
CHECKED BY: SLM

DATE & INITIALS
REVISION DESCRIPTION
SCALE: 1"=10'
10'
0'
10'

ES2