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MARY O'CONNOR, COMMISSIONER **OF FINANCE** 

TOWNSHIP ADMINISTRATOR

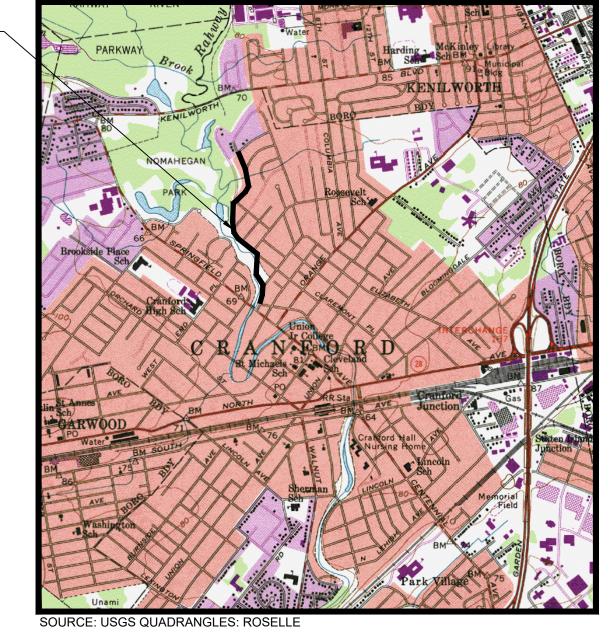
**JAMIE CRYAN** 

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VIG75558

# TOWNSHIP OF CRANFORD **REHABILITATION OF DIKE RIVERSIDE DRIVE**

PROJECT LOCATION



USGS MAP

## SEPTEMBER 2022

Μ M MOTT MACDONALD Certificate No. 24GA28016600

Ken Wollstadt 08/15/2022

**KEVIN K. NOLLSTADT** Professional Engineer - N.J. Lic. No. 24GE04519700

### PUBLIC UTILITIES

PSE&G 472 WESTON CANAL ROAD SOMERSET, NJ 08873 JONATHAN HALLENBECK (973) 764-3243

VERIZON FIOS ENGINEERING 290 WEST MOUNT PLEASANT AVE, FLR G., BLDG 4 LIVINGSTON, NJ 07083 CARLOS DIAS (732) 577-7414

COMCAST 800 RAHWAY AVE UNION, NJ 07083 ROBERT KNOEPFEL (732) 604-744 EXT 6202293

ELIZABETHTOWN GAS 520 GREEN LANE UNION, NJ 07083 GREG BALINT (908) 662-8321

NEW JERSEY AMERICAN WATER 1341 NORTH AVE PLAINFIELD, NJ 07062 SCOTT SCHREIBER (908) 791-3464

JOINT MEETINGS 500 SOUTH FIRST STREET ELIZABETH, NJ 07202 JOSEPH BONACCOROS, SUPERINTENDENT

RAHWAY VALLEY SEWERAGE AUTHORITY

1050 EAST HAZELWOOD AVE RAHWAY, NJ 07065 ROBERT L. VALENT (732) 388-0868

NOTE:

PRIOR TO ANY EXCAVATION, CONTRACTOR MUST HAVE ALL UTILITIES MARKED OUT BY THE APPROPRIATE UTILITY COMPANIES BY CALLING 1-800-272-1000 OR 811.

INDEX OF DRAWINGS						
SHEET NUMBER	SHEET TITLE	DATE	REVISED			
1	COVER	08/15/2022				
2	NOTES AND DETAILS	08/15/2022				
3	SITE PLAN AND PROFILE	08/15/2022				
4	SITE PLAN AND PROFILE	08/15/2022				
5	SITE PLAN AND PROFILE	08/15/2022				
6	SESC DETAILS	08/15/2022				

## LEGEND

•	SURVEY BENCHMARK	<b>m</b>	
			PROP. "A" INLET
	SURVEY MONUMENT	D	PROP. STORM SEWER MANHOLE
	EX "A" INLET	S	PROP. SANITARY SEWER MANHOLE
	EX STORM SEWER MANHOLE	• <sub>CO</sub>	PROP. SANITARY CLEAN OUT
° <sub>CO</sub>	EX SANITARY CLEAN OUT	-	PROP. PIPE COUPLING
S	EX SANITARY MANHOLE		PROP. FLOW DIRECTION
×°	EX GAS SERVICE MARKOUT	\$	PROP. SANITARY SEWER MAIN
O <sub>GV</sub>	EX GAS VALVE		PROP. SANITARY SEWER LATERAL
$\mathcal{A}$	EX FIRE HYDRANT	<del>।(                                    </del>	PROP. UTILITY BYPASS
°WM	EX WATER METER	٤ــــــع	PROP. STORM SEWER PIPE
٠	EX WATER SERVICE VALVE		
$\bowtie$	EX WATER VALVE		
$\sim$	EX UTILITY POLE		
$\downarrow$	EX GUY WIRE		
S	EX. SEWER MAIN		
	EX. WATER MAIN		
G	EX. GAS MAIN		
	EX. STORM PIPE		
————Е ————	EX. ELECTRIC CROSSING		
C	EX. COMCAST CROSSING		
	EX. SEWER LATERAL		
	EX. WATER SERVICE		
	EX. SIDEWALK		
	EX. CURB		
	EX. DRIVEWAY		
	EX. GUTTER		

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412 Mt Kemble Avenue Suite G22 Morristown, New Jersey 07960 Certificate No. 24GA28016600

## Client

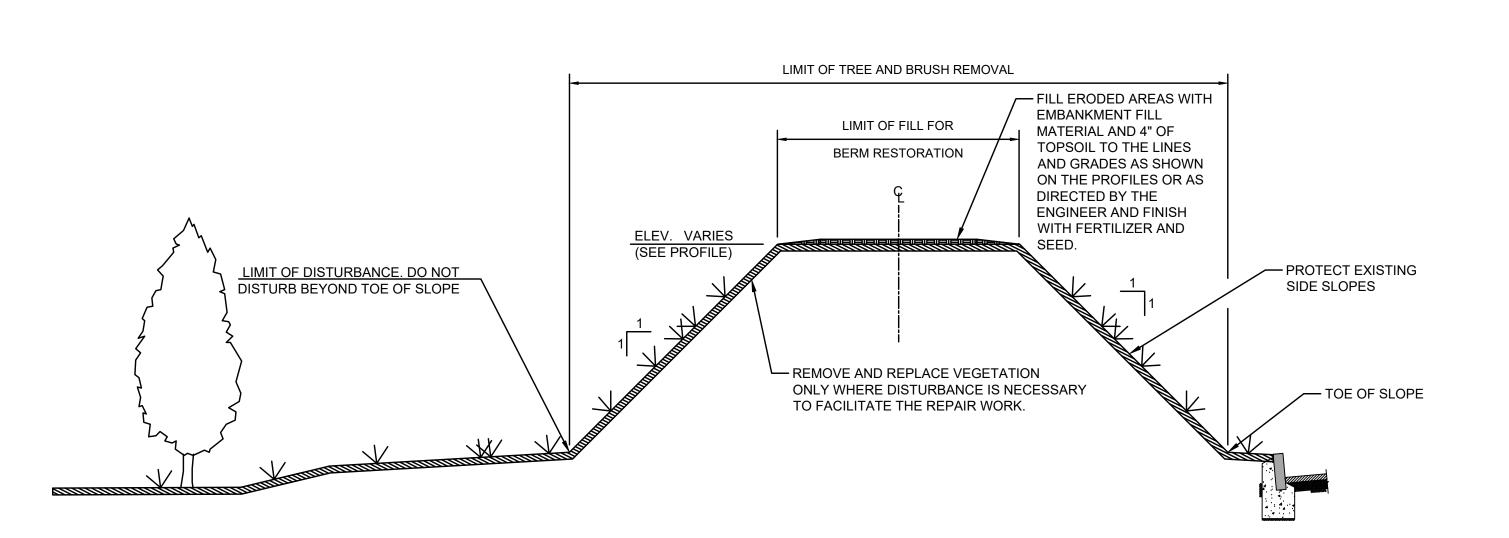
#### T +1 (800) 832 3272 F +1 (973) 376 1072

## TOWNSHIP OF CRANFORD UNION COUNTY, NEW JERSEY

Rev Da

#### **GENERAL NOTES**

- 1. ALL ELEVATIONS SHOWN ON THE DRAWINGS ARE BASED UPON NAVD 1988 DATUM UNLESS OTHERWISE NOTED.
- 2. THE CONTRACTOR SHALL ADEQUATELY PROTECT ALL EXISTING STRUCTURES AND UTILITIES. ANY DAMAGE TO EXISTING STRUCTURES OR UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND ALL COSTS FOR REPAIRS SHALL BE BORNE BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE "UNDERGROUND FACILITY PROTECTION ACT" (P.L. 1994 CH. 118) AND PROVIDE THE ENGINEER WITH THE NOTIFICATION CONFIRMATION NUMBER PRIOR TO ANY EXCAVATION.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL UTILITY MARKOUTS AND FORWARDING CONFIRMATION NUMBERS TO THE OWNER AND ENGINEER.
- 4. AVAILABLE INFORMATION AS TO THE LOCATION OF EXISTING SUBSTRUCTURES AND UTILITIES HAS BEEN COLLECTED FROM VARIOUS SOURCES. THE RESULTS OF SUCH INVESTIGATIONS AS MAY BE SHOWN ON THE CONTRACT DRAWINGS, ARE NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. ALL EXISTING UTILITIES ARE SHOWN FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL DIG TEST PITS TO VERIFY TRUE AND EXACT LOCATIONS OF UNDERGROUND LINES, AS HE DEEMS NECESSARY TO COMPLETE THE CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
- 5. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES A MINIMUM OF 72 HOURS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ANY AND ALL NECESSARY PERMITS FROM THE AFFECTED UTILITY COMPANIES AND FOR SCHEDULING OF INSPECTIONS BY UTILITY COMPANY PERSONNEL, IF REQUIRED, DURING CONSTRUCTION.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ROAD OPENING PERMITS FROM THE MUNICIPALITY AND/OR COUNTY AND COMPLY WITH THE REQUIREMENTS OF THE MUNICIPALITY AND/OR COUNTY.
- 7. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE AND FEDERAL LAWS, ORDINANCES, ETC. IN THE EXECUTION OF THIS WORK.
- 8. THE CONTRACTOR SHALL ABIDE BY ALL REQUIREMENTS OF THE "HIGH VOLTAGE PROXIMITY ACT". EXCAVATIONS OR TRENCHING WITHIN CLOSE PROXIMITY TO UNDERGROUND FACILITIES OR UTILITY POLES WILL REQUIRE PROTECTION IN AN APPROVED MANNER TO PREVENT DAMAGE OR INTERRUPTION OF SERVICE TO OVERHEAD OR UNDERGROUND FACILITIES. THE COST TO PROVIDE THIS PROTECTION WILL BE BORNE BY THE CONTRACTOR.
- 9. PRIOR TO THE START OF ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A WORK SCHEDULE, AND CERTIFICATES OF INSURANCE (FOR GENERAL AND SUBCONTRACTORS) TO THE OWNER AND ENGINEER FOR APPROVAL.
- 10. ALL EXCESS RECYCLABLE DEMOLITION MATERIAL SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED RECYCLING FACILITY AT NO ADDITIONAL COST TO THE OWNER.
- 11. THE CONTRACTOR IS ADVISED THAT ALL MUNICIPAL PUBLIC NUISANCE LAWS AND NOISE ORDINANCES SHALL BE OBSERVED DURING THE COURSE OF CONSTRUCTION.
- 12. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN APPROPRIATE SIGNAGE FOR TRAFFIC CONTROL AND PEDESTRIAN SAFETY DURING CONSTRUCTION.
- 13. CONTRACTOR ACKNOWLEDGES THAT HE HAS UNDERTAKEN WHATEVER PRE-BID INVESTIGATIONS HE DEEMS NECESSARY TO ASCERTAIN THE COMPOSITION, SIZE, SHAPE, LOCATION, AND DEPTH OF MATERIALS THAT WILL BE DEMOLISHED AND REMOVED THAT PRESENTLY EXIST ABOVE OR BELOW GRADE, WITHIN THE LIMIT OF CONSTRUCTION.
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES DURING THE CONSTRUCTION PERIOD.
- 15. THE CONTRACTOR SHALL MAINTAIN THE FLOW OF ALL STREAMS, DRAINAGE DITCHES, STORM SEWERS AND SANITARY SEWERS AT ALL TIMES BY A MEANS ACCEPTABLE TO THE ENGINEER AND ALL RESPONSIBLE AGENCIES.
- 16. ALL SHOP DRAWINGS, MATERIALS AND EQUIPMENT TO BE INSTALLED AND ALL OTHER REQUIRED SUBMITTALS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- 17. THE CONTRACTOR OR HIS REPRESENTATIVE IS TO DESIGNATE AN INDIVIDUAL FOR CONSTRUCTION SITE SAFETY DURING THE COURSE OF SITE IMPROVEMENTS PURSUANT TO N.J.A.C. 5:23-2.21(E) OF THE NEW JERSEY UNIFORM CONSTRUCTION CODE AND C.F.R. 1926.32(F) (OSHA COMPETENT PERSON).
- 18. THE CONTRACTOR SHALL BROOM SWEEP STREETS, USE APPROVED METHOD TO CONTROL DUST AND HOSE DOWN THE PAVEMENT TO KEEP SURFACE CLEAN.
- 19. DETOURING OF TRAFFIC, SHALL BE COORDINATED WITH LOCAL OFFICIALS (FIRE, POLICE, FIRST AID, BOARD OF EDUCATION BUS COORDINATOR, ETC.) REFER TO SPECIFICATIONS AND TRAFFIC CONTROL PLAN FOR SPECIFIC REQUIREMENTS.
- 20. UNLESS OTHERWISE PERMITTED, NO WORK SHALL BE DONE BETWEEN THE HOURS OF 6:00 PM AND 7:00 AM PREVAILING TIME: NO EQUIPMENT SHALL BE STARTED PRIOR TO 7:30 AM, PREVAILING TIME. IF IT SHALL BECOME ABSOLUTELY NECESSARY TO PERFORM WORK AT NIGHT, THE ENGINEER SHALL BE INFORMED IN ADVANCE. GOOD LIGHTING AND ALL OTHER NECESSARY FACILITIES FOR PROPER CARRYING OUT AND INSPECTING THE WORK SHALL BE PROVIDED.
- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE AREAS OF DISTURBANCE TO THEIR ORIGINAL CONDITIONS. MATERIALS AND EQUIPMENT NEEDED TO BE PAID FOR UNDER THE VARIOUS ITEMS BID FOR THE PROJECT.
- 22. RIGHT OF WAY LINES AND PROPERTY LINES HAVE BEEN SHOWN UTILIZING FOUND MONUMENTS AND TAX MAP INFORMATION ONLY.
- 23. NJDOT STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2019 EDITION TO GOVERN. NJDOT STANDARD CONSTRUCTION DETAILS TO GOVERN OVER ALL MATERIALS, EQUIPMENT AND PROCEDURES.
- 24. ALL MISCELLANEOUS ITEMS SHALL BE PAID FOR UNDER ITEM 2 CLEARING SITE



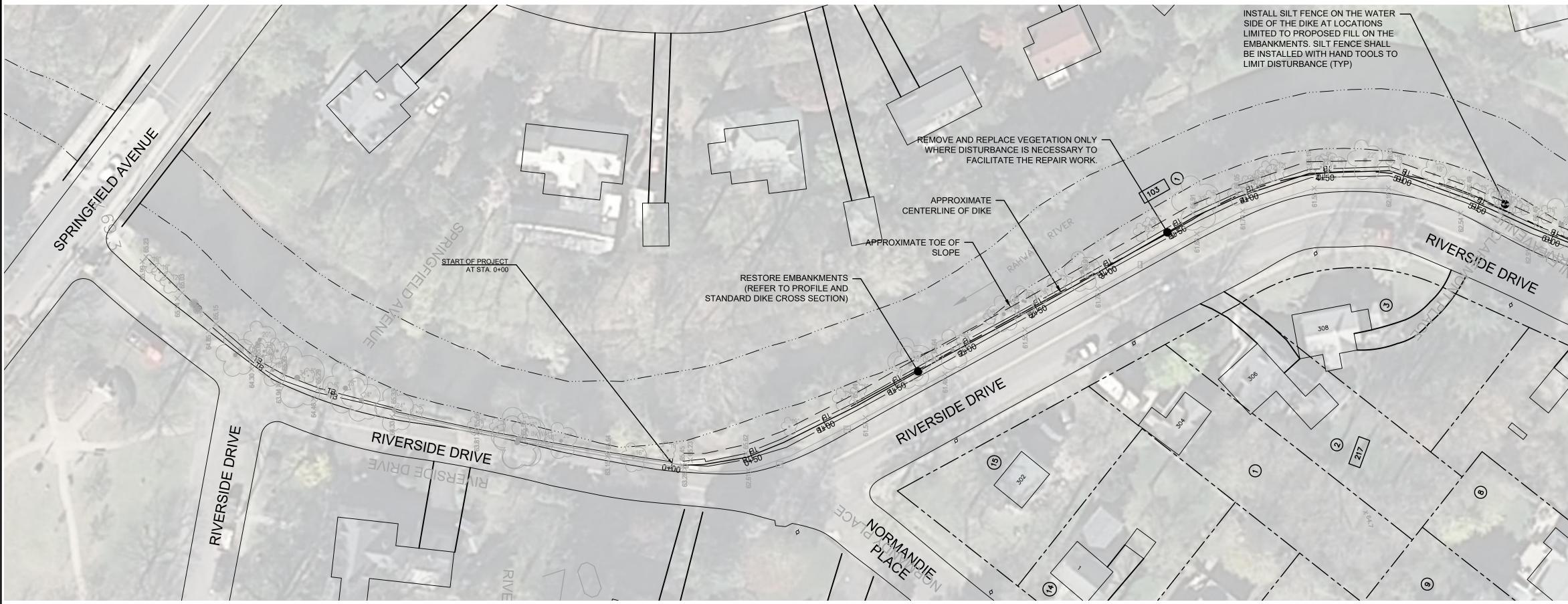
SCHEDULE OF CONSTRUCTION ITEMS							
ITEM DESCRIPTION	UNITS	ESTIMATED QUANTITY					
MOBILIZATION	LUMP SUM	1					
CLEARING SITE	LUMP SUM	1					
EMBANKMENT FILL	C.Y.	230					
SOIL EROSION AND SEDIMENT CONTROL	LUMP SUM	1					
CONSTRUCTION STAKEOUT	LUMP SUM	1					
TOPSOILING, 4" THICK	SQ. YD.	1,600					
FERTILIZING AND SEEDING	SQ. YD.	1,600					
	ITEM DESCRIPTION MOBILIZATION CLEARING SITE EMBANKMENT FILL SOIL EROSION AND SEDIMENT CONTROL CONSTRUCTION STAKEOUT TOPSOILING, 4" THICK	ITEM DESCRIPTIONUNITSMOBILIZATIONLUMP SUMCLEARING SITELUMP SUMEMBANKMENT FILLC.Y.SOIL EROSION AND SEDIMENT CONTROLLUMP SUMCONSTRUCTION STAKEOUTLUMP SUMTOPSOILING, 4" THICKSQ. YD.					

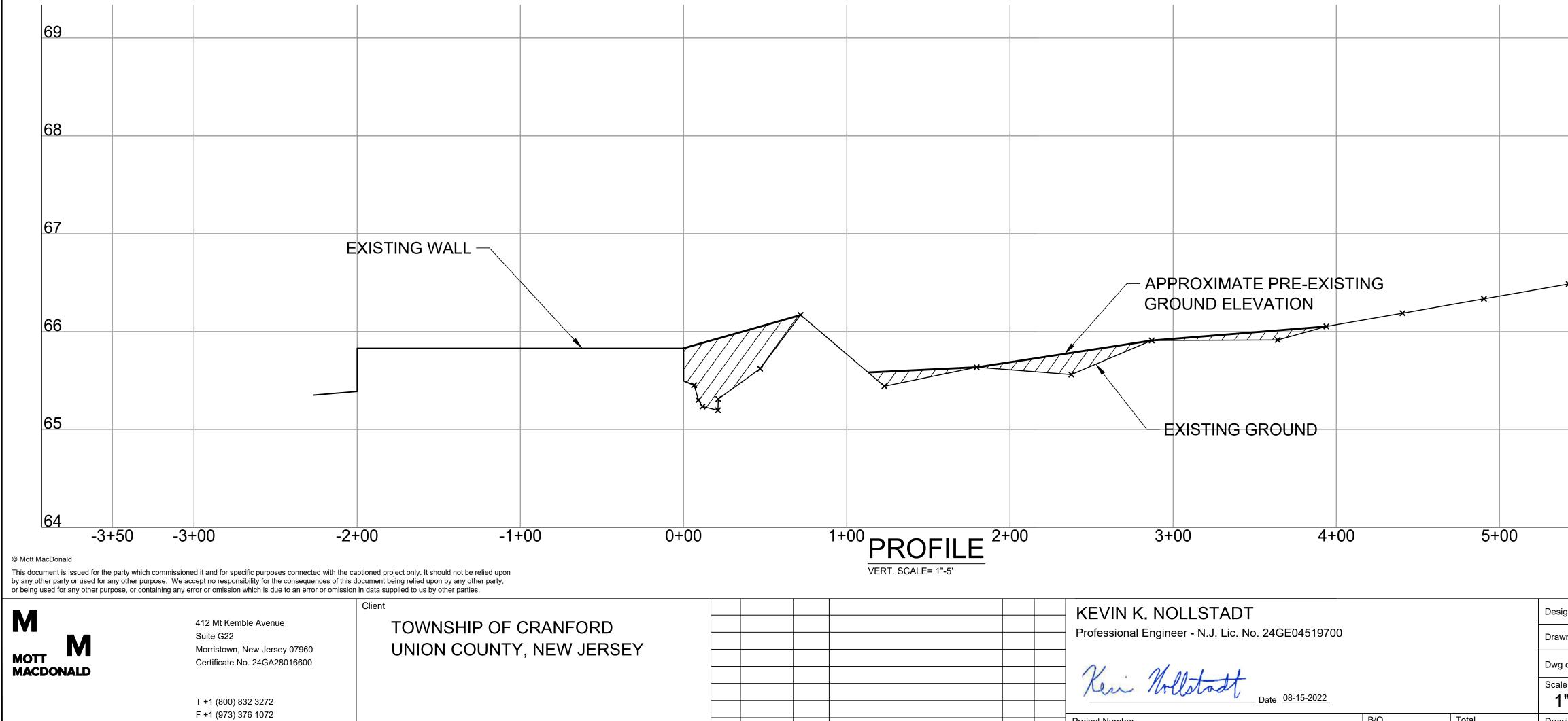
	KEVIN K. NOLLSTADT			Designed	RS	08/15	Eng check	KKN	08/15	
	Professional Engineer - N.J. Lic. No. 24GE04519700			Drawn	RS	08/15	Coordination			RIVERSIDE DRIVE
	N. MARINI			Dwg check	SJA	08/15	Approved	KKN	08/15	
	Len Wollstodt Date 08-15-2022			Scale at ARCH			Rev	Se	STD	NOTES AND DETAILS
ate Drawn Description Ch'k'd App'd	Project Number 507351416	в/о 2	Total 6	Drawing Numb	ber					NOTES AND DETAILS

## **TYPICAL DIKE CROSS-SECTION**

NOT TO SCALE

EMBANKEMNT FILL MATERIAL GRADATION								
EARTH EMBANKMENT FILL (IMPERVIOUS <u>FILL)</u>								
SIEVE SIZE	<u>% FINER</u>							
3/8"	90-100							
#4	85-95							
#10	80-95							
#40	60-80							
#100	30-55							
#200	25-40							

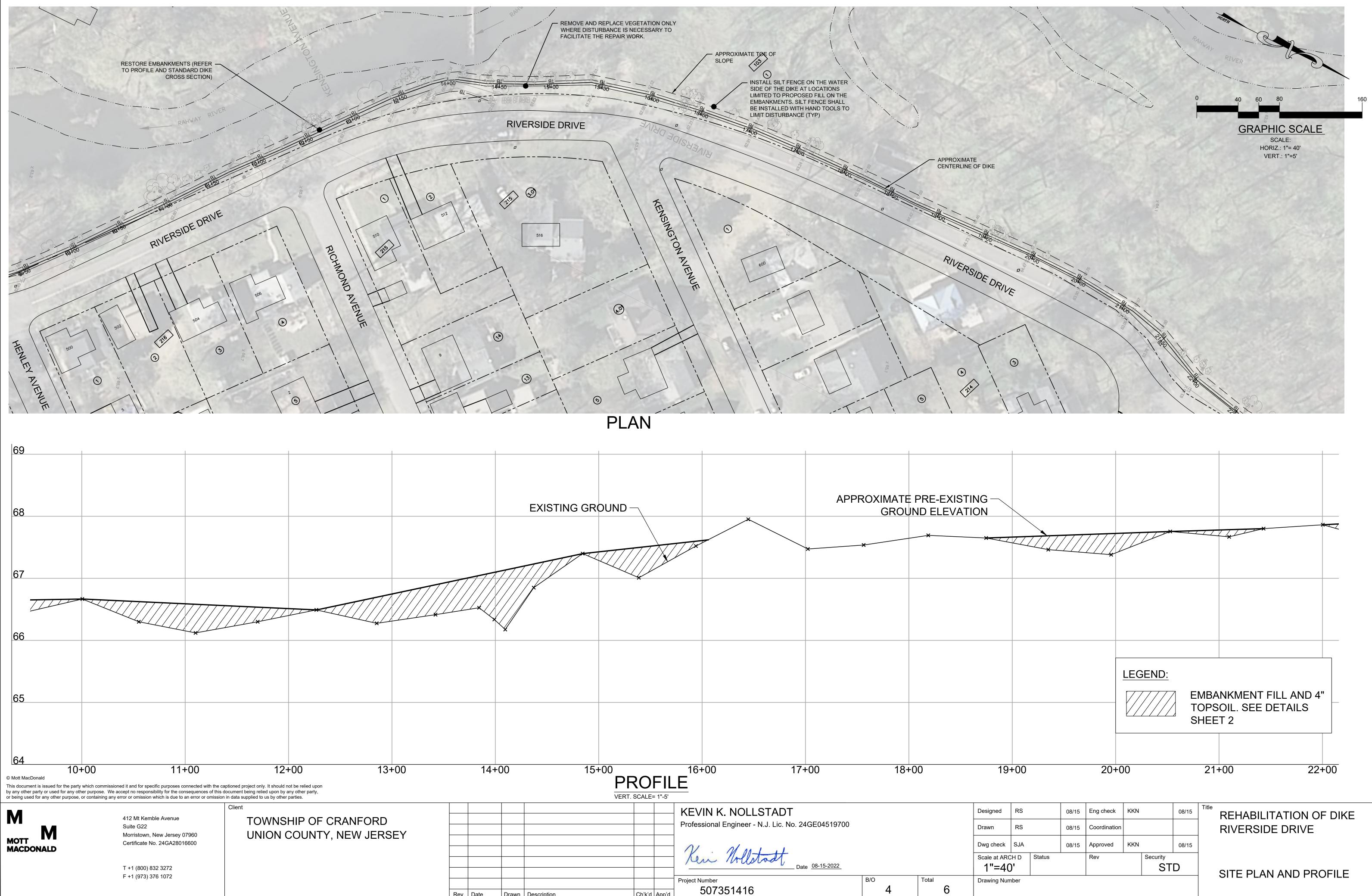




PLAN

					LEGEND:	EMBANKMENT FILL AND 4 TOPSOIL. SEE DETAILS SHEET 2	1"
	- APPROXIMATE PRE-EXIS GROUND ELEVATION	STING	×	X	*////	X X	×
	EXISTING GROUND						
1+00 PROFILE 2+ VERT. SCALE= 1"-5'	00 3+00 4+0	00 5+00	6+00	0	7+00	8+00 9	+00
Image: Market Ma Market Market Mark	KEVIN K. NOLLSTADT         Professional Engineer - N.J. Lic. No. 24GE04519700	0	Designed RS Drawn RS	08/15Eng checkKKN08/15Coordination		REHABILITATION OF DIKE RIVERSIDE DRIVE	
Image: select	h'k'd App'd Haris Soft	B/O Total 6	Dwg checkSJAScale at ARCH D 1"=40'StatusDrawing Number	08/15 Approved KKN Rev	08/15 Security STD	SITE PLAN AND PROFILE	

0 40 60 80 160	
GRAPHIC SCALE SCALE:	
HORIZ.: 1"= 40' VERT/: 1"=5' BUDD RIVERSIDE DI RIVERSIDE DI	AWE HENIEL AVENUE
BUDDO BUDDO PINE.	CONTRACTOR OF STREET
	, <u>5</u>
<ul> <li>So</li> <li>Cuntum of the solution of the sol</li></ul>	
50 CLARENNE 55	
	B T

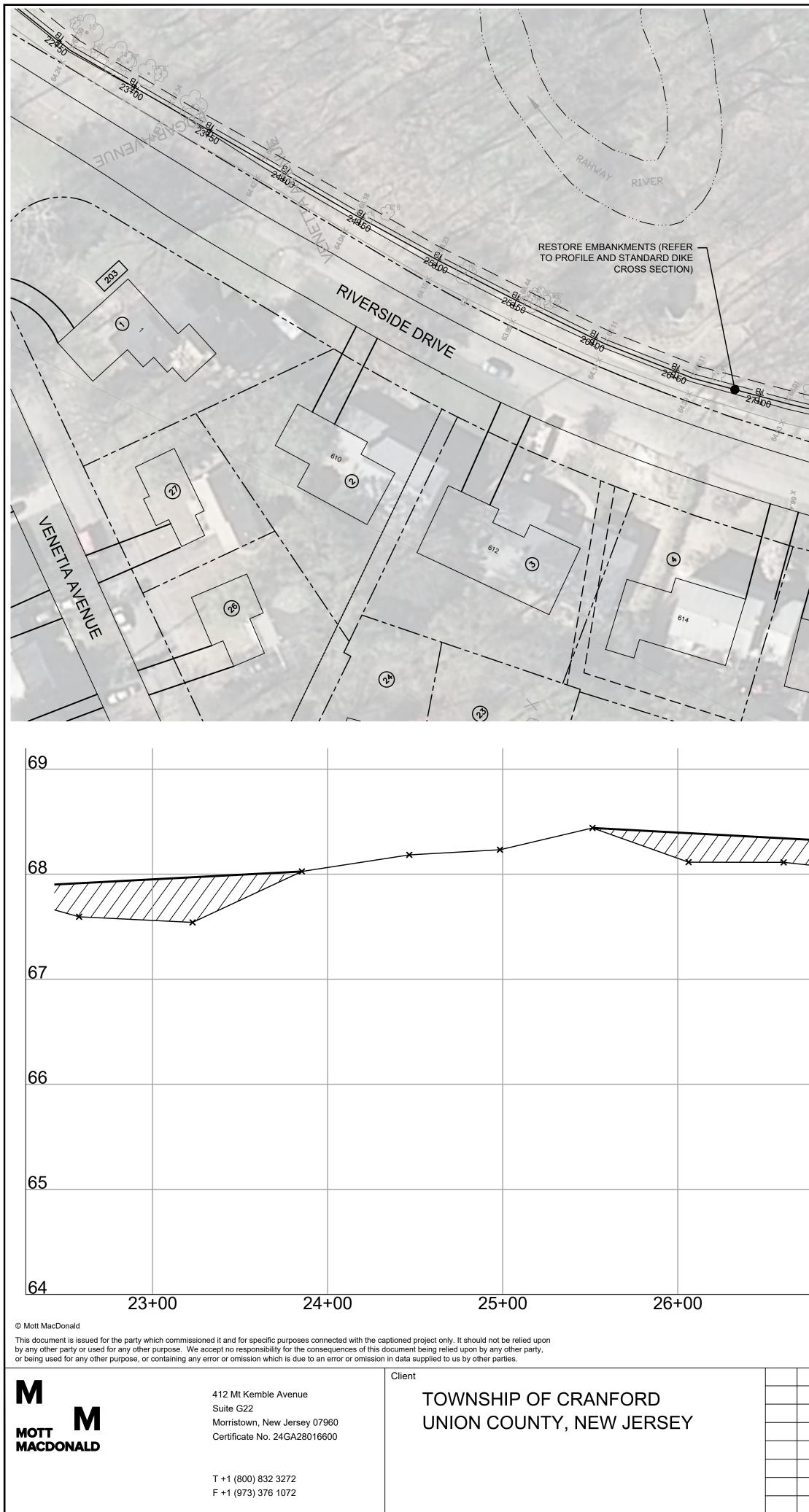


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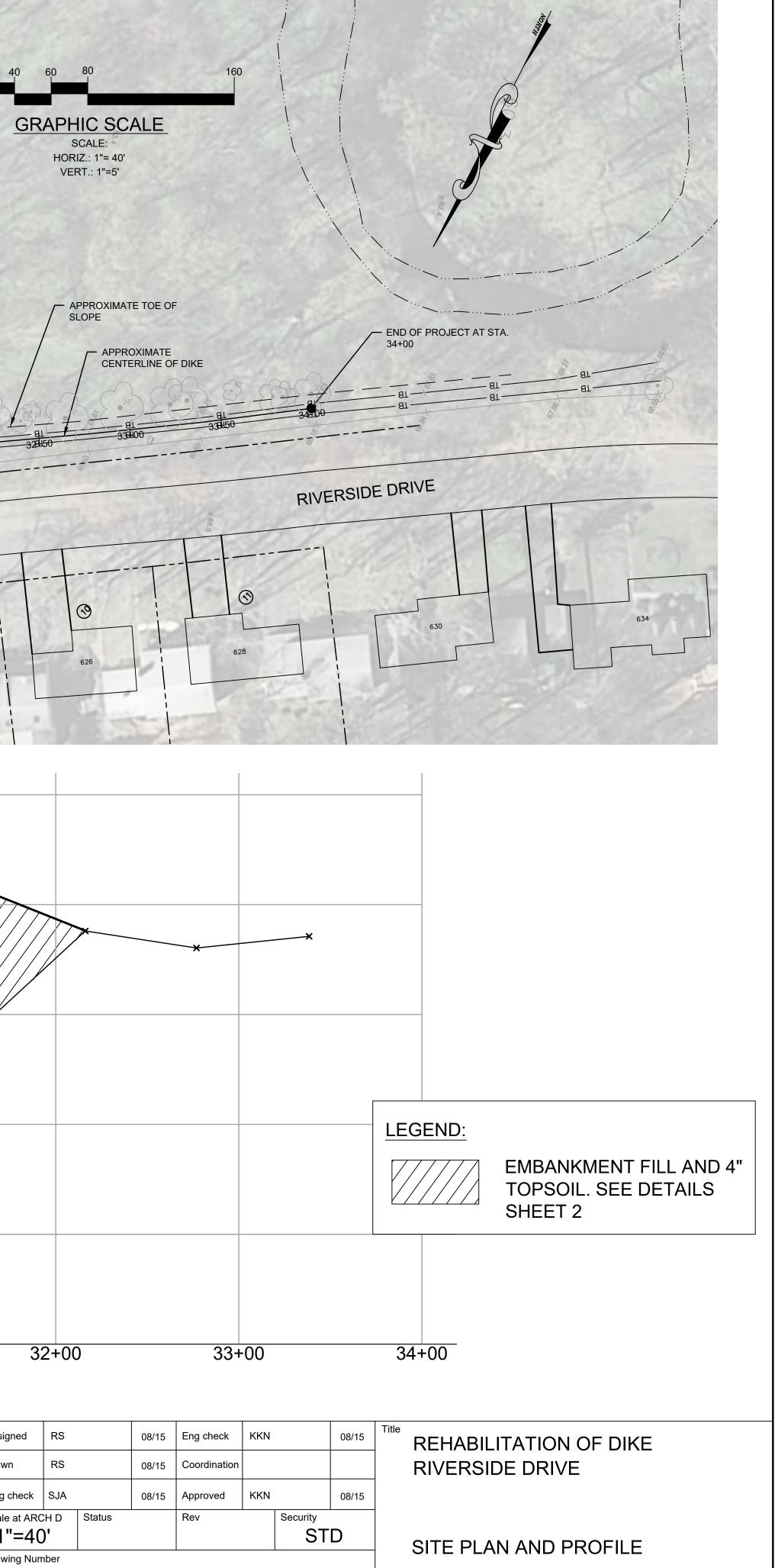
Drawn Description

Rev Date

							Т Т		SOIL. SEE DETAILS
19-	+00			20+0	0			21-	+00 22+00
					1				
signed	RS		08/15	Eng check	KKN	-	08/15	Title	REHABILITATION OF DIKE
awn	RS		08/15	Coordination					RIVERSIDE DRIVE
/g check	SJA		08/15	Approved	KKN		08/15		
ale at ARC 1"=4C		Status		Rev		Security	D		SITE PLAN AND PROFILE
awing Num	lber								



		×85,7				
			INSTALL SILT FENCE ON THE W SIDE OF THE DIKE AT LOCATIO LIMITED TO PROPOSED FILL ON EMBANKMENTS. SILT FENCE SI BE INSTALLED WITH HAND TOO LIMIT DISTURBANCE (TYP)	NS / V N THE / F HALL /	REMOVE AND REPLACE VEGETATION WHERE DISTURBANCE IS NECESSAR ACILITATE THE REPAIR WORK.	Y TO
		RIVERSIDE DRIVE				
		ND				
27+(	Drawn Description	FILE 1"-5' KE' Profe	29+00 VIN K. NOLLSTAD essional Engineer - N.J. Lic. I With Muthod t Number 507351416	No. 24GE04519700	31+00 3/0 Total 5 6	Desig Drawn Dwg o Scale <b>1</b> Drawi



	412 Mt Kemble Avenue Suite G22 Morristown, New Jerse			HIP OF CRANFORD
v other party or used for any other pung used for any other purpose, or con	h commissioned it and for specific purpose urpose. We accept no responsibility for the ntaining any error or omission which is due	consequences of this docu to an error or omission in d	ment being relied upon by ar	ny other party,
t MacDonald				
<ol> <li>ALEGIONE DIREGIONNI EMDERIONEI SEED.</li> <li>CLEANUP SITE AND REMOVE SOIL MEASURES.</li> </ol>				
	I NT FILL AND INSTALL TOPSOIL, FERTILIZER AI	٩D		
1. INSTALL SOIL EROSION AND SEDIN STAGING AND STOCKPILE AREAS.	IENT CONTROL MEASURES, ESTABLISH			
SEQUENCE OF CONSTRU	JCTION_			
HAVING A pH OF 5 OR MORE BEFORI	E SEEDBED PREPARATION. THE ADDED SOIL	SHALL BE LIMED AS ABOVE.		
	LESS OR CONTAINING IRON SULFIDE SHALL E		I OF 12 INCHES OF SOIL	
	(300 POUNDS 30-0-0 PER ACRE OR EQUIVALE	NT) IS USED IN ADDITION TO S	SUGGESTED FERTILIZER, THIS	;
	VEEPING LOVEGRASS OR LEGUMES MAY NOT E TOPDRESSED BEFORE AUGUST 15.	NEED TOPDRESSING.		
OR 10 POUNDS PER 1,000 SQ.	. FT. BETWEEN SEPTEMBER 1 AND OCTOBER RE THE ABOVE BETWEEN MARCH AND MAY 1.			
	QUIRE AN APPLICATION OF FERTILIZER SUCH		TAT 400 POUNDS PER ACRE	
	AND MULCH IS NOT USED, SUPPLY NEW SEED IS WELL ESTABLISHED). THIS IS ESPECIALLY Y SITES.			
V. IRRIGATION (WHERE FEASIBLE)				
	ON OF OTHER PRODUCTS. BER MULCH AT THE RATE OF 1,500 POUNDS PE SLOPES AND DURING OPTIMUM SEEDING PEF		A HYDROSEEDER.	
AT RATES RECOMMENDED I NOTE: ALL NAMES GIVEN ABC	BY THE MANUFACTURER TO ANCHOR MULCH	MATERIALS.		
SLOPES 8 FEET OR MORE H 3. SYNTHETIC OR ORGANIC B	R 194 GAL./ACRE ON FLAT AREAS AND ON SLO IIGH, USE 0.075 GAL./SQ. YD. OR 363 GAL./ACR INDERS - BINDERS SUCH AS CURASOL, DCA-7	E. 0, PETRO-SET, AND TERRA-T/		
HIGH, USE 0.075 GAL./SW. YE 2. CUTBACK ASPHALT - RAPID	) CURING (RC-70, RC-250, AND RC-800) OR MEI	DIUM CURING (MC-250 OR MC	:-800).	
B. USE ONE OF THE FOLLOWING 1. EMULSIFIED ASPHALT - (SS	G: -1, CSS-1, CMS-2, MS-2, RS-1, RS-2, CRS-1, ANI			
4. LIQUID MULCH-BINDERS - MAY A. APPLICATIONS SHOULD BE H	BE USED TO ANCHOR SALT HAY, HAY, OR STI HEAVIER AT EDGES WHERE WIND CATCHES TH D BE UNIFORM IN APPEARANCE.		AT CRESTS OF BANKS.	
LEAVE PART STANDING UPRIGH	E BROADCAST LONG FIBER MULCH 3 TO 4 INC HT. THIS TECHNIQUE IS LIMITED TO AREAS TF . STRAW MULCH RATE MUST BE 3 TONS PER /	RAVERSABLE BY A TRACTOR,	WHICH MUST OPERATE	MUST BE NOTIFIED IN WRITING PRIOR TO ANY DISTU
NETTING IN AREAS TO BE MOW 3. CRIMPER (MULCH ANCHORING	/ED. 3 TOOL) - A TRACTOR-DRAWN IMPLEMENT, SO	MEWHAT LIKE A DISCHARRO	W, ESPECIALLY DESIGNED	SOMERSET-UNION SOIL CONSERVATION DISTRICT
TWO OR MORE ROUND TURNS. 2. MULCH NETTINGS - STAPLE PA	PEGS IN A CRISS-CROSS AND A SQUARE PAT			NOTE:
1. PEG AND TWINE - DRIVE 8 TO 1 ALL DIRECTIONS. STAKES MAY	10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INC BE DRIVEN BEFORE OR AFTER APPLYING MU	HES OF THE SOIL SURFACE E LCH. SECURE MULCH TO SO	EVERY 4 FEET IN IL SURFACE BY	23. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND REQUIREMENTS OF N.J.A.C. 7:22-10.11(C).
	DS WITHIN EACH SECTION. E ACCOMPLISHED IMMEDIATELY AFTER PLACE OLLOWING METHODS, DEPENDING UPON THE			22. WRITTEN NOTIFICATION SHALL BE PROVIDED TO THE SOMERSET-UNION SOIL DISTRICT LAND DISTURBANCE.
B. SPREAD UNIFORMLY BY HAND C COVERED. FOR UNIFORM DISTR	OR MECHANICALLY SO THAT APPROXIMATELY IBUTION OF HAND-SPREAD MULCH, DIVIDE AF	75% TO 95% OF THE SOIL SU		STOCKPILING, OR ACCESS. 21. ALL EXCAVATED MATERIAL SHALL BE STOCKPILED WITHIN THE STOCK PILE AREA FOR BEING REGRADED ON SITE.
RATE OF 1-1/2 TONS PER ACRE (7 INSTEAD OF A LIQUID MULCH-BIN	UNROTTED SMALL GRAIN STRAW, HAY FREE 75 LBS. PER 1,000 SQ. FT.), EXCEPT THAT WHE NDER (TACKIFYING OR ADHESIVE AGENT), THE PPER-BLOWERS MUST NOT GRIND THE MATEF	RE A CRIMPER IS USED RATE OF APPLICATION MUS		OF ANYPORTION OF THE PROJECT OR FOR THE SALE OF ANY BUILDING LOTS, NEW OW ADDRESS, AND PHONE NUMBER SHALL BE PROVIDED TO THE DISTRICT. 20. FINAL RESTORATION SHALL BE UNDERTAKEN AS SOON AS AN AREA IS NO LONGER NEW ADDRESS, AND ADDRESS
PROMOTE FASTER AND EARLIER ES OF THE PROJECT OR UNIT COMPLE	STABLISHMENT. (THE EXISTENCE OF SATISFA TION SHALL BE DEEMED AS COMPLIANCE WIT	CTORY PERMANENT VEGETA	ATION AT THE TIME IENT.)	<ol> <li>ALL DEWATERING OPERATIONS SHALL DISCHARGE INTO AN APPROVED SEDIMENT BAS</li> <li>THE SOMERSET-UNION SOIL CONSERVATION DISTRICT MUST BE NOTIFIED, IN WRITING OF ANYPORTION OF THE PROJECT OR FOR THE SALE OF ANY BUILDING LOTS. NEW OW</li> </ol>
	EDING. MULCH WILL INSURE AGAINST EROSI			17. MAXIMUM SIDE SLOPES SHALL NOT EXCEED 2:1 UNLESS OTHERWISE APPROVED BY TH
CAPILLARITY, AND IMPROVE SEE	SOIL WITH A CORRUGATED ROLLER WILL ASS DLING EMERGENCE. THIS IS THE PREFERREN L BE MINIMIZED AND WATER CONSERVATION (	D METHOD. WHEN PERFORM		<ol> <li>ALL PLAN REVISIONS MUST BE SUBMITTED TO THE DISTRICT FOR THE PROPER REVIEW</li> <li>A CRUSHED STONE WHEEL CLEANING "TRACKING PAD" IS TO BE INSTALLED AT ALL SIT LENGTH OF AT LEAST 50 FEET. ALL DRIVEWAYS MUST EXHIBIT THIS ITEM IN THE DRIVE</li> </ol>
CULTIPACKED SEEDINGS, SEED S OR DRAGGING. DEPTH OF SEED	INCLUDED IN THE TANK WITH THE SEED. EXC SHALL BE INCORPORATED INTO THE SOIL, TO PLACEMENT MAY BE 1/4 INCH DEEPER ON CC	A DEPTH OF 1/4 TO 1/2 INCH, DARSE TEXTURED SOIL.	BY RAKING	14. ALL SURFACES SHALL BE TREATED WITH 6" OF TOPSOIL PRIOR TO SEEDING.
HYDROSEEDER. THE LATTER MA	ND, CYCLONE (CENTRIFUGAL) SEEDER, DROF AY BE JUSTIFIABLE FOR LARGE, STEEP AREAS INCLUDED IN THE TANK WITH THE SEED. EXC	WHERE CONVENTIONAL VEH	HICLES CANNOT	<ul> <li>THE PROPER SEED, MULCH OR HYDROSEED APPLICATION.</li> <li>13. ALL PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. DO NOT USE A FIRE OR G/ RUNOFF IS DIRECTED TO A PROPER SEDIMENT BASIN.</li> </ul>
	E 3.2-1 OR USE MIXTURE RECOMMENDED BY VHICH IS APPROVED BY THE SOIL CONSERVA		ON SERVICE OR	CERTIFICATE OF OCCUPANCY. PLEASE GIVE THE DISTRICT ONE WEEK NOTICE TO SCH 12. A BOND WILL BE ACCEPTED BY THE DISTRICT TO ISSUE A TEMPORARY REPORT OF CO
	RE SEEDING. IF TRAFFIC HAS LEFT THE SOIL (		T BE RETILLED AND	<ol> <li>ALL STORM DRAINAGE OUTLET POINTS WILL BE PROTECTED AS REQUIRED BEFORE TH</li> <li>THE CONTRACTOR MUST OBTAIN A DISTRICT ISSUED "REPORT OF COMPLIANCE" PRIOF</li> </ol>
C. REMOVE FROM THE SURFACE A	E ROLLED TO FIRM THE SEEDBED WHEREVER ALL STONES TWO INCHES OR LARGER IN ANY PIECES OF CONCRETE, CLODS, LUMPS, OR OT	DIMENSION. REMOVE ALL OT	THER DEBRIS, SUCH	<ol> <li>ANY DAMAGE INCURRED BY EROSION SHALL BE RECTIFIED IMMEDIATELY.</li> <li>ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSPECTED AND MAIN</li> </ol>
HARROW, OR OTHER SUITABLE E CONTOUR. CONTINUE TILLAGE U	TO THE SOIL AS NEARLY AS PRACTICAL TO A I EQUIPMENT. THE FINAL HARROWING OR DISC JNTIL A REASONABLY UNIFORM, FINE SEEDBE E ROLLED TO FIRM THE SEEDBED WHEREVER	ING OPERATION SHOULD BE D IS PREPARED. ALL BUT CL	ON THE GENERAL	7. MULCH MATERIALS SHALL BE UNROTTED SALT HAY OR SMALL GRAIN STRAW AT THE R ACRE, OR 75 POUNDS PER 1000 SQUARE FEET. IN NO CASE SHALL MORE THAN FIVE DA OR BY HYDROSEEDING AS PER THE MANUFACTURERS SPECIFICATIONS.
LOAMY SAND, SAND	2 ONE IS PREFERRED FOR MOST SOILS SOUTH	90	RENTON LINE.	6. ALL STORM DRAINAGE INLETS SHALL BE PROTECTED WITH GRAVEL FILTERS, FABRIC F UNTIL VEGETATION AND/OR PAVING IS ESTABLISHED.
SOIL TEXTURE CLAY, CLAY LOAM, AND HIGH OR SANDY LOAM, LOAM, SILT LOAM	3	LBS./1,000 SQ. FT. 180 135		<ol> <li>SEDIMENT FENCES ARE TO REMAIN IN PLACE AND MAINTAINED PROPERLY UNTIL PERM COVER HAS BEEN ESTABLISHED.</li> </ol>
LIEU OF TOPDRESSING (SEE PAG MAGNESIUM OXIDES) AS FOLLOV	GE 3.2.7, SECTION IV). APPLY LIMESTONE (EQI NS:	JIVALENT TO 50 PERCENT CA		<ol> <li>SEEDING DATES: THE FOLLOWING ARE RECOMMENDED SEEDING DATES FOR THE EST, OR PERMANENT VEGETATION. SPRING: (MARCH 15 - MAY 30) FALL: (AUGUST 15 - OCTOBER 15)</li> </ol>
SERVICE OFFICE. IF SOIL TESTIN MAY BE APPLIED AT THE RATE O	NATORY. SOIL SAMPLE MAILERS ARE AVAILA NG IS NOT FEASIBLE ON SMALL OR VARIABLE IF 500 POUNDS PER ACRE OR 11 POUNDS PER POUNDS 38-0-0 PER ACRE OF EQUIVALENT OF	SITES, OR WHERE TIMING IS ( 1,000 SQUARE FEET OF 10-20	CRITICAL, FERTILIZER 0-10 OR	SHALL BE REQUIRED FOR TEMPORARY PROTECTION, EXCEPT WHERE SEASONAL CONDITION SUITABLE FOR GROWING VEGETATION. IN THIS CASE, MULCH WILL BE APPLIED UNTIL CONDI SUITABLE FOR ESTABLISHING VEGETATIVE COVER OR UNTIL FINAL RESTORATION IS IMPLEM
II. SEEDBED PREPARATION A. APPLY LIMESTONE AND FERTILI	ZER ACCORDING TO SOIL TEST RECOMMEND. RATORY, SOIL SAMPLE MAILERS ARE AVAILA			VEGETATIVE COVER EXCEPT IN AREAS WHERE FINAL RESTORATION IS EXPECTED TO BE CO WITHIN SEVEN DAYS AFTER THE COMPLETION OF CONSTRUCTION, IN WHICH CASE NO TEMP PROTECTIVE MEASURES WILL BE REQUIRED. IF FINAL RESTORATION IS EXPECTED TO BEGIN SEVEN DAYS AND COMPLETED MORE THAN 30 DAYS AFTER THE START OF CONSTRUCTION,
	ITROL PRACTICES AND FACILITIES SUCH AS D HANNEL STABILIZATION MEASURES, SEDIMEN 1.16.			<ol> <li>DISTURBED AREAS THAT WILL BE EXPOSED IN EXCESS OF 14 DAYS SHALL BE TEMPORARILY AND/OR MULCHED UNTIL PROPER WEATHER CONDITIONS EXIST FOR ESTABLISHMENT OF A I</li> </ol>
A. GRADE AS NEEDED AND FEASIB PREPARATION, SEEDING, MULCH	BLE TO PERMIT THE USE OF CONVENTIONAL E A APPLICATION AND ANCHORING, AND MAINTE ICE WITH STANDARDS FOR LAND GRADING, P.	NANCE. ALL GRADING		<ul><li>SHALL BE REMOVED AND DISPOSED OF PROPERLY.</li><li>2. ALL SOIL TO BE STOCKPILED FOR A PERIOD OF GREATER THAN 30 DAYS WILL BE TEMP MULCHED, (OR HYDROSEEDED).</li></ul>
ON EXPOSED SOILS THAT HAVE A PO METHODS AND MATERIALS I. SITE PREPARATION	TENTIAL FOR CAUSING OFF-SITE ENVIRONME	ENTAL DAMAGE.		WITH THE "NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTRO PREPARED BY THE NEW JERSEY STATE SOIL CONSERVATION COMMITTEE. THESE ME/ INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE PERMANENT PROTECTION IS ESTABLISHED. AFTER RESTORATION IS COMPLETE, TEM
WHERE APPLICABLE				1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN WILL BE CONS
ENVIRONMENT.	DIL, ASSURING CONSERVATION OF SOIL AND V	VATER, AND TO ENHANCE THI	E	NOTES FOR SOIL EROSION AND SEDIMENT CONTROL:

T +1 (800) 832 3272 F +1 (973) 376 1072

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SOILS & SITES A. Well to Excessively Well Drained 1. Unmowed areas, e.g. 'andfills, rights of way, wildlife areas 2. Unmowed, coarse textured soils, wildlife areas; make good forage 3. Unmowed areas 4. Best for coarse textured soils; suppresses woody	SEED MIXTURE <u>1</u> / Normal Seeding Depth is from 1/4-1/2 Inch except A-3, A-4, A-7 Weeping lovegrass Sericea lespedeza Switchgrass Weeping lovegrass 1/2-1", Crownvetch	SEE RATI	1MUM DING ES 2/ unds) Per 1,000 Sq. Ft. 0.1 0.5	Based on	MUM SEEDING Plant Hardin ZONE 6	
Excessively Well Drained 1. Unmowed areas, e.g. 'andfills, rights of way, wildlife areas 2. Unmowed, coarse textured solls, wildlife areas; make good forage 3. Unmowed areas 4. Best for coarse textured solls;	is from 1/4-1/2 Inch except A-3, A-4, A-7 Weeping lovegrass Sericea lespedeza Switchgrass Weeping lovegrass	Асге 2 20	1,000 Sq. Ft. 0.1 0.5	ZONE 5	ZONE 6	+
<ol> <li>Unmowed areas, e.g. 'andfills, rights of way, wildlife areas</li> <li>Unmowed, coarse textured solls, wildlife areas; make good forage</li> <li>Unmowed areas</li> <li>Best for coarse textured solls;</li> </ol>	Weeping lovegrass Sericea lespedeza Switchgrass Weeping lovegrass	2 20	0.1 0.5		ZONE 6	+
<ul> <li>'andfills, rights of way, wildlife areas</li> <li>2. Unmowed, coarse textured solls, wildlife areas; make good forage</li> <li>3. Unmowed areas</li> <li>4. Best for coarse textured solls;</li> </ul>	Sericea lespedeza Switchgrass Weeping lovegrass	20	0.5	5/1-7/1		3/1-8/1
<ul> <li>textured solls, wildlife areas; make good forage</li> <li>3. Unmowed areas</li> <li>4. Best for coarse textured solls;</li> </ul>	Weeping lovegrass	25	0.6	5/1-7/1	1	1
<ol> <li>Best for coarse textured solls;</li> </ol>	Weeping lovegrass 1/2-1", Crownvetch				4/1-6/1	4/1-6/1
textured solls;		3 12	0_1 0_3			3/1-8/1
growth; unmowed	Weeping lovegrass 1/2-1", flatpea	3 30	0.1 0.7		· · · ·	3/1-8/1
areas 5. Unmowed areas, e.g. road banks, gravel	Perennial ryegrass Crownvetch	25 12	0.6	3/15-6/1 8/1-9/15	3/1-5/15 8/15-10/1	2/15-5/1 8/15-10/1
6. Landfills, coarse textured solls; unmowed areas	Spreading tescue Hard fescue/or Sheep fescue Perennial ryegrass	25 45 10	0.6 1.0 0.2	3/15-6/1 8/1-9/15	3/1-5/15 8/15-10/1	2/15-5/1 8/15-10/1
7. Mowed areas, e.g. lawns, recreation areas	Bermudagrass Zoyslagrass	12 Bushel sprigs spaced at 2! - 3! centers				5/1-7/15
B. Moderately to Well Drained	Mixtures A-1 through A-7 and the following:		<b>-</b>	- <del></del>	<b>↓</b>	ł
1. Low maintenance areas, e.g. detention basins, landfills, dikes, diversions (sun to open shade)	Tall fescue Spreading fescue Kentucky bluegrass	30 30 30	0.7 0.7 0.7	3/15-5/15 8/1-9/1	3/1-5/15 8/15-10/1	2/15-5/1 8/15-10/15
2. Unmowed areas (aesthetics not important)	Tall fescue Sericea lespedeza	25 20	0.6 0.4	3/15-6/1	3/1-5/15	2/15-5/1 8/15-10/15
3. Low maintenance areas, occasional mowing only	Tall fescue Birdsfoot trefoil	45 10	1.0 0.2	3/15-6/1	3/1-5/15	
<ol> <li>Mowed areas, e.g. recreation areas, lawns, etc. (sun and shade)</li> </ol>	Spreading fescue Red fescue Kentucky bluegrass Perennial ryegrass	15 15 25 10	0.3 0.3 0.6 0.2	3/15-6/1 8/1-9/15	3/1-5/15 8/15-10/1	2/15-5/1 8/15-10/15 (shade and cool sites only)
5. Mowed areas, e.g. lawns (sunny sites) (high maintenance, aesthetic areas)	Kentucky bluegrass (three cultivar blend) Hard fescue Perennial ryegrass	60 20 10	1.4 0.4 0.2	3/15-6/1	3/1-5/15	
C. Poorly to Somewhat Poorly Drained	Mixtures B-1, B-3, B-4 and B-5 and the following:	¥			•	<u>_</u>
<ol> <li>Mowed and unmowed sunny wet areas, e.g. ditch banks, waterways</li> </ol>	Reed canarygrass Redtop Perennial ryegrass	20 4 20	0.4 0.1 0.4	3/15-6/1 8/1-9/15 (Be sure	3/1-5/15 8/15-10/1 that Reed ca	1/15-5/1 8/15-10/15 narygrass
	<ul> <li>road banks, gravel pits, etc.</li> <li>6. Landfills, coarse textured solls; unmowed areas</li> <li>7. Mowed areas, e.g. lawns, recreation areas</li> <li>8. Moderately to Well Drained</li> <li>1. Low maintenance areas, e.g. detention basins, landfills, dikes, diversions (sun to open shade)</li> <li>2. Unmowed areas (aesthetics not important)</li> <li>3. Low maintenance areas, occasional mowing only</li> <li>4. Mowed areas, e.g. recreation areas, lawns, etc. (sun and shade)</li> <li>5. Mowed areas, e.g. lawns (sunny sites) (high maintenance, aesthetic areas)</li> <li>6. Poorly to Somewhat Poorly Drained</li> <li>1. Mowed and unmowed sunny wet areas, e.g. ditch banks,</li> </ul>	road banks, gravel pits, etc.Crownvetch Spreading fescue6. Landfills, coarse textured solls; unmowed areasHard fescue/or Sheep fescue Perennial ryegrass7. Mowed areas, e.g. lawns, recreation areasBermudagrass Zoysiagrass7. Mowed areas, e.g. lawns, recreation areas, e.g. detention basins, landfills, dikes, diversions (sun to open shade)Mixtures A-1 through A-7 and the following:1. Low maintenance areas, e.g. detention basins, landfills, dikes, diversions (sun to open shade)Tall fescue Sericea lespedeza3. Low maintenance areas, occasional mowing onlyTall fescue Sericea lespedeza3. Low maintenance areas, occasional mowing onlyTall fescue Sericea lespedeza4. Mowed areas, e.g. (asyns, etc. (sun and shade)Spreading fescue Kentucky bluegrass Perennial ryegrass5. Mowed areas, e.g. lawns (sunny sites) (high maintenance, aesthetic areas)Spreading fescue Red fescue Re	road banks, gravel pits, etc.Crownvetch Spreading fescue12 256. Landfills, coarse textured soils; unmowed areasHard fescue/or Sheep fescue45 107. Mowed areas, e.g. lawns, recreation areasBermudagrass Zoyslagrass12 E spring7. Mowed areas, e.g. lawns, recreation areas, e.g. detention basins, landfills, dikes, diversions (sun to open shade)Mixtures A-1 through A-7 and the following:1. Low maintenance areas, e.g. detention basins, landfills, dikes, diversions (sun to open shade)Tall fescue Sericea lespedeza30 202. Unmowed areas (aesthetics not important)Tall fescue Sericea lespedeza25 203. Low maintenance areas, ec.g. (aesthetics not important)Tall fescue Sericea lespedeza45 103. Low maintenance areas, ec.g. (aesthetics not important)Tall fescue Sericea lespedeza45 103. Low maintenance areas, ec.g. recreation areas, lawns, etc. (sun and shade)Spreading fescue 15 Red fescue Perennial ryegrass105. Mowed areas, e.g. lawns (sunny sites) (high maintenance, aesthetic areas)Kentucky bluegrass Perennial ryegrass60 106. Poorly to Some what Poorly DrainedMixtures B-1, B-3, B-4 and B-5 and the following:201. Mowed and unmowed sunny wot areas, e.g. ditch banks, Perennial ryegrass20	road banks, gravel pits, etc.Crownetch Spreading fescue12 250.6 0.66. Landfills, coarse textured solls; unmowed areasHard fescue/or Sheep fescue Perennial ryegrass100.27. Mowed areas, e.g. lawns, recreation areasBermudagrass Zoyslagrass12 Bushel sprigs spaced at 21' - 3' centers8. Moderately to Well DrainedMixtures A-1 through A-7 and the following:300.71. Low maintenance areas, e.g. detention basins, lawnfills, dikes, diversions (sun to open shade)Tall fescue Sericea lespedeza300.73. Low maintenance areas, occasional moving onlyTall fescue Sericea lespedeza250.63. Low maintenance areas, e.g. (aesthetics not important)Tall fescue Sericea lespedeza451.03. Low maintenance areas, occasional mowing onlyTall fescue Birdsfort trefoil451.04. Mowed areas, e.g. (aesthetics not important)Spreading fescue Birdsfort trefoil451.03. Low maintenance areas, occasional mowing onlySpreading fescue Red fescue Red fescue Perennial ryegrass500.45. Mowed areas, e.g. lawns (sunny sites) (high maintenance, aesthetic areas)Kentucky bluegrass Perennial ryegrass601.46.C. Poorly to Somewhat Poorly DrainedMixtures B-1, B-3, B-4 and B-5 and the following:0.41. Mowed and unmowed sunny wet areas, e.g. ditch banks, Perennial ryegrass200.4	road banks, gravel plts, etc.Crownvetch Spreading fescue120.3a/1-9/156. Landfills, coarse textured solls; unmowed areas, e.g. lawns, recreation areasHard fescue/or Sheep fescue451.03/15-6/17. Mowed areas, e.g. lawns, recreation areasBermudagrass Zoyslagrass12Bushel spread spread sprigs sprigs8. Moderately to well DrainedMixtures A-1 through A-7 and the following:300.73/15-5/151. Low maintenance areas, e.g. defention basins, lamfills, dikes, diversions (sun to open shade)Tall fescue Spreading fescue300.7 3/15-5/153/15-6/13. Low maintenance areas, occasional moving onlyTall fescue Sericea lespedeza300.7 3/15-6/13/15-6/13. Low maintenance areas, occasional moving onlyTall fescue Sericea lespedeza250.6 3/15-6/13/15-6/13. Low maintenance areas, occasional moving onlyTall fescue Birdsfoot trefoil100.23/15-6/14. Mowed areas, e.g. recreation areas, e.g. 	road banks, gravel plfs, etc.       Crownvortch Spreading fescue textured solls; unnowed areas unnowed areas, e.g. laws, recreation areas       12       0.3       8/1-9/15       8/15-10/1         7. Mowed areas, e.g. laws, recreation areas       Hard fescue/or perennial ryagrass       10       0.2       8/1-9/15       3/15-10/1         8. Moderately to Well Drained       Bermudagrass Zoyslagrass       12 Bushel spread at 27 - 31 centers           8. Moderately to Well Drained       Mixtures A-1 through A-7 and the following:       30       0.7       3/15-5/15       3/1-5/15         1. Low maintenance areas, e.g. detention basins, landfills, dikes; diversions (sun to open shade)       Tall fescue Sericea lespedeza       30       0.7       3/15-6/1       3/1-5/15         3. Low maintenance areas, o.c.sional mowing only       Tall fescue Sericea lespedeza       25       0.6       3/15-6/1       3/1-5/15         4. Mowed areas, o.g. fawns, etc. (sun and shade)       Tall fescue Red fescue recreation areas; neccention areas; e.g. dotty to sites) (high maintenance, aesthetic areas)       Spreading fescue Red fescue Red fescue Ferennial ryegrass       10       0.2       3/15-6/1       3/1-5/15         5. Mowed areas, e.g. hawns, etc. (sun and shade)       Kentucky bluegrass Perennial ryegrass       60       1.4       3/15-6/1       3/1-5/15         6.       Porennial ryegrass       60

NOTES:

1/ Seeding mixtures and/or rates not listed above may be used if recommended by the local Sol Conservation District, Soil Conservation Service; recommendations of the Cooperative Extension Service may be used if approved by the Soil Conservation District. Legumes (flatpea, crown vetch, trefoll, lespedeza) should be mixed with proper inoculant prior to planting.

2/ Grass seed mixture checked by the chief of the Bureau of Seed Certification, New Jersey Department of Agriculture, Trenton, New Jersey, will assure the purchaser that the mixture obtained is the mixture ordered. 3/ Plant Hardiness Zone (see map, p. 3.2.6)

Zone 5 - Portions of Sussex and Warren Countles

Zone 6 - Portions of Bergen, Camden, Essex and Gloucester, all of Hunterdon, portions of Mercei and Middlesex, all of Morris and Passaic, portions of Somerset, Sussex, Union and Warren Countles

Zone 7 - Atlantic, portion of Bergen, all of Burlington, Cape May and Cumberland, portions of Essex and Gloucester, all of Hudson, portion of Middlesex, all of Monmouth, Ocean and Salem and portion of Union County

#### TABLE 3.2-1

#### TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

Definition

- Purpose
- To temporarily stabilize the soll and reduce damage from wind and water erosion until permanent stabilization is accomplished.
- On exposed soils that have the potential for causing off-site environmental damage.
- 1. Site Preparation
- done in accordance with Standards for Land Grading, p. 4.11.
- ways. See Standards 4.2 through 4.16. 11. Seedbed Preparation
- magnesium oxides) as follows:
  - SOIL TEXTURE Clay, clay loam, and high organic soil Sandy loam, loam, slit loam
  - Loamy sand, sand New Brunswick-Trenton line.
- uniform seedbed is prepared.
- must be retilled as above.
- Standards for Stabilization with Mulch Only, p. 3.3.1.

III. Seeding

A. Select seed from recommendations in Table 3.1-1.

	SEEDING RATES (pounds)						
SPECIES	Per Acre	Per 1,000 Sq. Ft.					
Annual ryøgrass	40	1.0					
Perennial ryegrass	-40	1.0					
Oats	86	2.0					
Barley	96	2.2					
Pearl millet	20	0.5					
Sudangrass	30	0.7					
Millet (German or (Hungarian)	30	0.7					
Weeping lovegrass	5	0.2					

/ May be planted throughout summer if soll moisture is adequate or can be irrigated 2/ Twice the depth for sandy soils 3/ Plant Hardiness Zone (see map, p. 3.2.6)

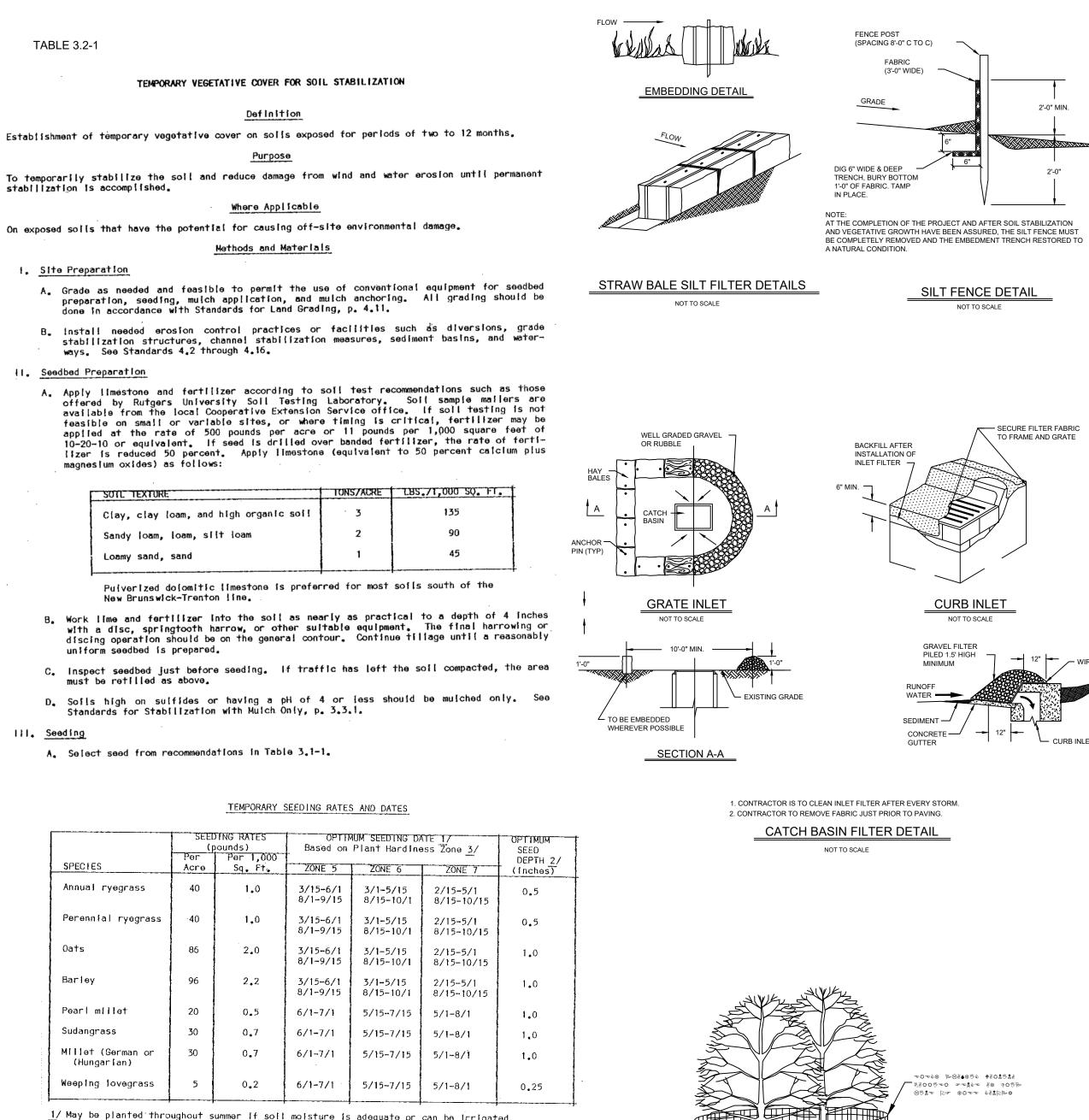
- Zone 5 Portions of Sussex and Warren Countles
- Warren Countles Zone 7 - Atlantic, portion of Bergen, all of Burlington, Cape May and Cumberland, portions of Salem and portion of Union County
- conservation on site will be maximized.

SOILS AND SEED MIXTURES 40% PERENNIAL RYE GRASS 30% CREEPING RED FESCUE 20% KENTUCKY BLUE GRASS 10% ALAIRE PERENNIAL RYE GRASS

NOTES:

THE TABLES 3.1-1 AND 3.2-1 WERE DIRECTLY TAKEN FROM SOIL EROSION & SEDIMENT CONTROL STANDARDS FOR NEW JERSEY

		KEVIN K. NOLLSTADT			Designed RS	08/15	Eng check	KKN	08/15		
		Professional Engineer - N.J. Lic. No. 24GE04519700			Drawn RS	08/15	Coordination			RIVERSIDE DRIVE	
		N. MARINI			Dwg check SJA	08/15	Approved	KKN	08/15		
		Ken Hollstodt Date 08-15-2022			Scale at ARCH D Status 1"=40'		Rev	Secur	<sup>rity</sup>	SESC DETAILS	
		Project Number	B/O	Total	Drawing Number		1			SESC DETAILS	
Drawn	Description Ch'k'd App'd	507351416	0	6							



888 \$0~00\$ \$8\$\$\$\$ \$88 be afs afs \$60\$\$\$\$\$\$

দেৱ উপজিৱ হিনিকাল প্ৰতি হওঁতেওঁ তল পিছনিক বিজ্ঞান বিজ্ঞান বিজ্ঞান প্ৰতি প্ৰতি প্ৰতি প্ৰতি প্ৰতি প্ৰতি প্ৰতি প্ৰ প্ৰতি প্ৰতি ক্ৰেণ্ড হৈ তাল কৰাৰ্থ্যতা হ'লত হ'ল পাছ প্ৰতি প

TREE PROTECTION

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Zone 6 - Portions of Bergen, Camden, Essex and Gloucester, all of Hunterdon, portions of Mercer and Middlesex, all of Morris and Passaic, portions of Somerset, Sussex, Union and

Essex and Gloucester, all of Hudson, portion of Middlesex, all of Monmouth, Ocean and

B. Apply seed uniformly by hand, cyclone (centrifugal) seeder, drop seeder, drill, cultipacker seeder, or hydroseeder. The latter may be justifiable for large, steep areas where conventional vehicles cannot travel. Mulch shall not be included in the tank with the seed. Except for drilled, hydroseeded or cultipacked seedings, seed shall be incorporated into the soil, to a depth of 1/4 to 1/2 inch, by raking or dragging, Depth of seed placement may be 1/4 Inch deeper on coarse textured soil.

C. After seeding, firming the soil with a corrugated roller will assure good seed-to-soil contact, restore capillarity, and improve seedling emergence. This is the preferred method. When performed on the contour, sheet erosion will be minimized and water