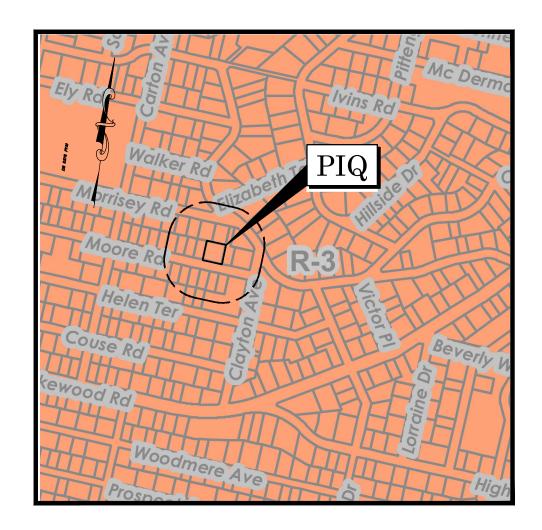
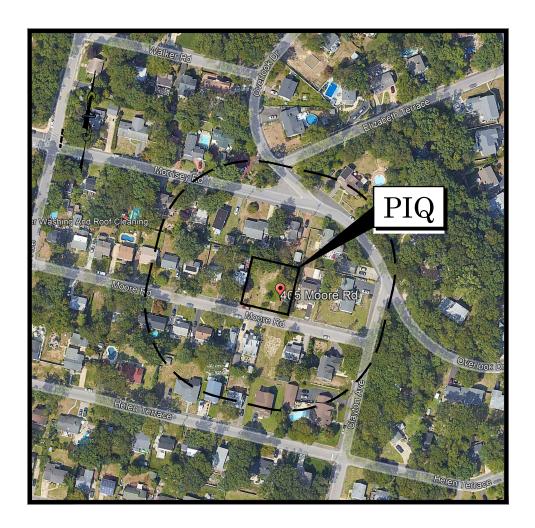
MINOR SUBDIVISION PLAN LOT 12 OF BLOCK 5002 TAX MAP SHEET #50 BOROUGH OF NEPTUNE MONMOUTH COUNTY, NJ



ZONE MAP SCALE: 1"=500'±



KEY MAP SCALE: 1"=200'±



TAX MAP/200' RADIUS MAP SCALE: 1"=300'

TAX MAP LAST REVISED ON 05/2019

ZONING TABLE						
R-3 ZONE - MODERATE DENSITY SINGLE-FAMILY RESIDENTIAL						
MIN. & MAX. REQUIRED REQUIRED EXISTING LOT 12 PROPOSED LOT 12.01 PROPOSED LOT 12						
MIN. LOT AREA	7,500 SF.	10,000 SF.	5,000 SF.**	5,000 SF.**		
(MAXIMUM DENSITY (D.U. PER ACRE)	5.80	4.36	8.71**	8.71**		
MIN. LOT WIDTH	75 FT.	100 FT.	50 FT.**	50 FT.**		
MIN. LOT FRONTAGE	75 FT.	100 FT.	50 FT.**	50 FT.**		
MIN. LOT DEPTH	100 FT.	100 FT.	100 FT.	100 FT.		
FRONT YARD SETBACK	20 FT.	N/A	20 FT.	20 FT.		
SIDE YARD SETBACK	10 FT.	N/A	10 FT.	10 FT.		
COMBINED SIDE YARD SETBACK	20 FT.	N/A	20 FT.	20 FT.		
REAR YARD SETBACK	30 FT.	N/A	30 FT.	30 FT.		
MAXIMUM BUILDING COVERAGE	30%	N/A	30.80%**	30.80%**		
MAXIMUM TOTAL LOT COVERAGE	45%	N/A	38.00%	38.00%		
MAXIMUM # OF STORIES	2.5 STORIES	N/A	2.5	2.5		
MAXIMUM BUILDING HEIGHT	35 FT.	N/A	33.67 FT.	33.67 FT.		
MINIMUM IMPROVABLE AREA	2,000 SF.	4,000 SF.	1,500 SF.**	1,500 SF.**		
MINIMUM IMPROVABLE AREA (DIAMETER)	29 FT.	50 FT.	30 FT.	30 FT.		

**PROPOSED VARIANCE

OWNER/ APPLICANT	

JAKE GORDON 59 MURRAY, LLC 195 MAIN STREET, STE. 206, METUCHEN NJ, 08840 JAKEGOR@GMAIL.COM

ATTORNEY RICK BRODSKY ANSELL GRIMM & AARON, PC 1500 LAWRENCE AVENUE OCEAN NJ, 07712 RBRODSKY@ANSELL.LAW

SHEET INDEX					
SHEET NO.	SHEET TITLE	ORIG. ISSUE DATE	LATEST REV. DATE		
1	COVER SHEET	3/05/24	6/26/24		
2	EXISTING CONDITIONS PLAN	3/05/24	6/26/24		
3	MINOR SUBDIVISION PLAN	3/05/24	6/26/24		
4	SOIL EROSION AND SEDIMENT CONTROL PLAN	6/26/24			
5	SOIL EROSION AND SEDIMENT CONTROL DETAILS	6/26/24			

CERTIFICATION OF OWNER: I CERTIFY THAT I AM THE OWNER OF THIS PROPERTY & CONSENT TO THE FILING OF THIS APPLICATION. DATE SIGNATURE

APPROVED BY THE BOARD	TOWNSHIP OF	NEPTUNE	PLANNING
PLANNING BOARD	CHAIRMAN		DATE
PLANNING BOARD	SECRETARY		(ATTEST)
ENGINEER			DATE

200' SURROUNDING OWNERS

	Line Con		itersect 200 foot buffer from Su	open raperty.	ISSUED ON 12/04/23	19
Adjoir Block	Lot Qualifier		Owner	Owner Street	Owner City\State\Zip	Addition Lots
4916	17	229 OVERLOOK DR	BONDURANT, MICHAEL & MICHELE	229 OVERLOOK DRIVE	NEPTUNE, NJ 07753	
4916	18	231 OVERLOOK DR	BONDURANT, DONALD M & ELEANOR	231 OVERLOOK DRIVE	NEPTUNE, NJ 07753	o szs
4916	19	235 OVERLOOK DR	BOURNE, JAMES M JR & DANIELLE L	235 OVERLOOK DRIVE	NEPTUNE, NJ 07753	20 .
4916	20	235 OVERLOOK DR	BOURNE, JAMES M JR & DANIELLE L	235 OVERLOOK DRIVE	NEPTUNE, NJ 07753	8
4918	8	374 OVERLOOK DR	SCOTT, PATRICIA A	374 OVERLOOK DR	NEPTUNE, NJ 07753	
5002		414 MORRISEY RD	MARRON, KEVIN THOMAS & F	414 MORRISEY RD	NEPTUNE, NJ 07753	
5002	5	410 MORRISEY RD	KEEGAN, JANICE W	410 MORRISEY ROAD	NEPTUNE, NJ 07753	
5002	6	408 MORRISEY RD	MAGISTRO,ELIZABETH M&BELLER,ANGELA	408 MORRISEY ROAD	NEPTUNE, NJ 07753	8 9
5002	7	404 MORRISEY RD	ZURETTI, KATIE M	404 MORRISEY ROAD	NEPTUNE, NJ 07753	
5002	8	402 MORRISEY	PEEPLES, ELLEN	402 MORRISEY RD	NEPTUNE, NJ 07753	В
5002	9	403 MOORE ROAD	ALLAN, JAMIE	403 MOORE ROAD	NEPTUNE, NJ 07753	
5002	TO 12 =:	230 OVERLOOK DR	HAYES, PHILIP & PAGANO, FRANCINE.	230 OVERLOOK DRIVE -	NEPTUNE, NJ 07753	5 5
5002	11	325 CLAYTON AVE	WHALEN, RICHARD E & JENNIFER	325 CLAYTON AVE	NEPTUNE, NJ 07753	
5002	12	405 MOORE ROAD	DECKER & DECKER CONSULTING, LLC	74 SEAVIEW AVENUE	MONMOUTH BEACH, NJ 07750	D.
5002	14	407 MOORE ROAD	DEMPSEY, KATHLEEN	407 MOORE ROAD	NEPTUNE, NJ 07753	
5002	15	409 MOORE		409 MOORE RD	NEPTUNE, NJ 07753	20 FEC 1 G
5002	16	ROAD 411 MOORE ROAD	CRUZ SPAHN, BRIANNA	411 MOORE ROAD	NEPTUNE, NJ 07753	
5002	17	413 MOORE ROAD	MITCHELL, MARION G	413 MOORE ROAD	NEPTUNE, NJ 07753	0
5005	5	416 MOORE ROAD	THISTLE, NICHOLAS & MEGAN	416 MOORE ROAD	NEPTUNE, NJ 07753	
5005	6	414 MOORE ROAD	EGERTER, AARON	414 MOORE ROAD	NEPTUNE, NJ 07753	
5005	7	412 MOORE RD	KARRICK,DEBORAH	412 MOORE RD	NEPTUNE, NJ 07753	
5005	8	410 MOORE ROAD	HELMER, DONALD & SHARON J	410 MOORE ROAD	NEPTUNE, NJ 07753	20 6 5 5
5005	9	408 MOORE ROAD	WOOD, GARRY JR & NATSUKO	408 MOORE ROAD	NEPTUNE, NJ 07753	
5005	10	406 MOORE ROAD	FORCIER, DONNA G	PO BOX 28	ALLENHURST, NJ 07711	, e
5005	11	404 MOORE ROAD	DUDAK, DAWN M & KOVACS, ANDRAS	404 MOORE ROAD	NEPTUNE TWP, NJ 07753	
5005	12.01	403 HELEN TERR	MCKAY, BRIAN J & KAYSIE L	403 HELEN TERRACE	NEPTUNE, NJ 07753	8 8
5005	12.02	329 CLAYTON AVE	MALLES, ROBERT A & DEBRA	329 CLAYTON AVENUE	NEPTUNE, NJ 07753	
5005	12.03	327 CLAYTON AVE	GATARZ, JON	327 CLAYTON AVENUE	NEPTUNE, NJ 07753	0 0
	13	409 HELEN TERR	SNITKO, KIMBERLY M.	409 HELEN TERRACE	NEPTUNE, NJ 07753	
5005	14	411 HELEN TERR	LEPIS,CARLA ANN&GOLIGHTLY,JOSEPH, W	411 HELEN TERR	NEPTUNE, NJ 07753	
5005	15	413 HELEN TERR	BLAKE, JUSTIN & YEE, STEPHANIE	413 HELEN TERRACE	NEPTUNE, NJ 07753	
			W			

Supplement to 200 Foot List Request

Please be advised that pursuant to Chapter 245, P.L. 1991, as of August 7th, 1991, any Applicant seeking a major subdivision or site plan approval, is required to provide a **Notice of Public Hearing to all Public Utilities and CATY** companies that own land or

P	Freperior	- ·
Below is a list of Pu	blic Utilities which provide this service to the	Neptune Area:
New Jersey- American Water	Verizon	Monmouth Cablevision
Company, Inc.	Legal Department, 17th Floor	Attn: Land Use Matter
Att. Donna Short GIS Supervisor	C/O Land Use Matters	1501 18th Avenue
1025 Laurel Oak Road	540 Broad Street	Wall Twp., NJ 07719
Voorhees, NJ 08043	Newark, NJ 07102	2
New Jersey Natural Gas Company	Jersey Central Power & Light	
Attn: Right of Way Department	Company	
1415 Wyckoff Road	Attn: Land Use Matters	
Wall True NI 07710	300 Madison Arronno	

In accordance with the Land Use Law N.J.S.A. 40:55d-12[d-g], Notice of Property within two hundred feet [200'] of a County Road or Other County properties shall be given to:

Morristown, NI 07960

Monmouth County Planning Board Freehold, NJ 07728-1125

In accordance with the same Land Use law, Notice of Property adjacent to a State Highway shall be given to:

Department of Transportation PO Box 600

Notice including maps or documents of an application which involves more than 150 acres or 500 dwelling units shall be given to the State Planning Commission

Trenton, New Jersey 08625-0420

Historical Society of Ocean Grove 50 Pitman Avenue PO Box 446

New Jersey Historic Trust

Trenton, New Jersey 08625-0212

Please address mail to:
New Jersey Business Action Center
Office of Planning Advocacy
Department of State
P.O. Box 820
Trenton, New Jersey 08625-0820

On all applications where property is located in Ocean Grove, notice must be sent to:					
Ocean Grove Camp Meeting	Department of the Interior,	Historical Society of Oc			
Association	National Trust for Historic	50 Pitman Avenu			
Attn: Finance Department	Preservation	PO Box 446			
54 Pitman Avenue	1849 C. Street	Ocean Grove, NJ 0			
P.O. Box 248	Washington, DC 20240				
Ocean Grove, NJ 07756	<i>5</i> ,				
Neptune Township Historical Socie	ty NJDEP - Historic Preservation Office	New Jersey Historic			
C/O Neptune Township	Mail Code 501-04B	Department of Commun			

Neptune, NJ 07753 P.O. Box 305 Trenton, New Jersey 08625

GENERAL NOTES:

OWNER/APPLICANT: MR. JAKE GORDON 59 MURRAY, LLC P.O. BOX 476 METUCHEN, NJ 08840

- 1. THE PROPERTY IS KNOWN AS LOT 12, BLOCK 5002 AS SHOWN ON THE OFFICIAL TAX MAPS OF THE TOWNSHIP OF NEPTUNE, MONMOUTH COUNTY, NEW
- 2. OUTBOUND AND EXISTING CONDITIONS INFORMATION DEPICTED HEREON TAKEN FROM A PLAN ENTITLED "BOUNDARY/TOPOGRAPHIC SURVEY" PREPARED BY BRUNSWICK SURVEYING INCORPORATED, DATED 10/13/23.
- 3. VERTICAL DATUM BASED ON NAVD88.
- 4. HORIZONTAL DATUM BASED ON NAD83.
- 5. EXISTING USE: VACANT (EXISTING SHED TO BE DEMOLISHED)
- 6. PROPOSED USE: SINGLE FAMILY RESIDENTIAL.
- 7. THE SITE IS SERVED BY PUBLIC WATER AND SEWER.
- 8. SITE LOCATED IN A FLOOD ZONE AE (EL. 8 FEET) PER FIRM 34025C0184G
- 9. DO NOT SCALE DRAWINGS AS THEY PERTAIN TO ADJACENT AND SURROUNDING PHYSICAL CONDITIONS, BUILDINGS, STRUCTURES, ETC.. THEY ARE SCHEMATIC ONLY, EXCEPT WHERE DIMENSIONS ARE SHOWN THERETO.
- 10. THIS SET OF PLANS HAS BEEN PREPARED FOR PURPOSES OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THESE PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIED ON THE DRAWINGS AND EACH DRAWING HAS BEEN REVISED TO INDICATE "ISSUED FOR CONSTRUCTION."
- 11. EXISTING UTILITY INFORMATION SHOWN HEREON HAS BEEN COLLECTED FROM VARIOUS SOURCES AND IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO EXCAVATION, AND NOTIFY NJ ONECALL AS REQUIRED BY LAW. TEST PIT INFORMATION SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENT AS REQUIRED TO AVOID CONFLICTS. EX. UTILITY CONNECTIONS WILL BE UTILIZED, IF POSSIBLE.
- 12. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION FOR SITE IMPROVEMENTS
 - SHOWN HEREON SHALL BE IN ACCORDANCE WITH: A. N.J. DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS
 - FOR ROAD AND BRIDGE CONSTRUCTION", AS CURRENTLY AMENDED. B. CURRENT, PREVAILING MUNICIPAL AND/OR COUNTY SPECIFICATIONS,
 - STANDARDS AND REQUIREMENTS. C. CURRENT, PREVAILING UTILITY COMPANY/AUTHORITY SPECIFICATIONS, STANDARDS AND REQUIREMENTS.
- 13. CONTRACTOR SHALL NOTIFY THE UNDERSIGNED PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY FROM THOSE REPRESENTED HERON AND/OR IF SUCH CONDITIONS, IN THE CONTRACTOR'S OPINION WOULD OR COULD RENDER THE DESIGN SHOWN HEREON INAPPROPRIATE OR INEFFECTIVE.
- 14. THIS PLAN IS SUBJECT TO ALL LOCAL AND STATE REGULATORY PERMITS, AGENCY REVIEW AND APPROVAL.
- 15. THE OWNER, OR HIS REPRESENTATIVE, IS TO DESIGNATE AN INDIVIDUAL RESPONSIBLE FOR CONSTRUCTION SITE SAFETY DURING THE COURSE OF SITE IMPROVEMENTS PURSUANT TO N.J.A.C. 5:23-2.21(e) OF THE N.J. UNIFORM CONSTRUCTION CODE AND CFR 1926.32(f) (OSHA COMPETENT PERSON).
- 16. ALL SITE IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE TOWNSHIP OF NEPTUNE CONSTRUCTION STANDARDS, WHERE APPLICABLE.
- 17. SUBDIVISION TO BE PERFECTED BY FILED DEED

MINOR SUBDIVISION PLAN

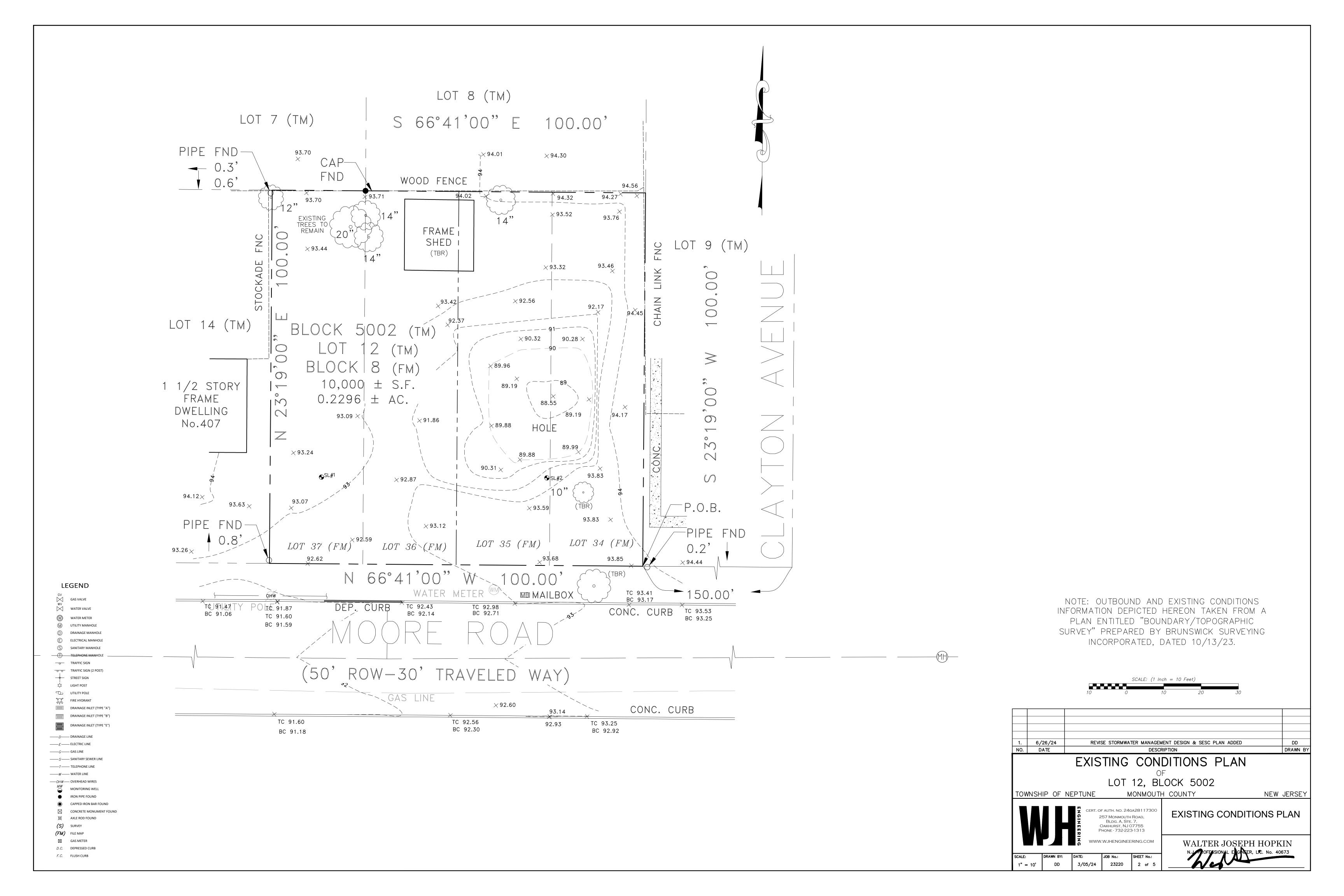
LOT 12 OF BLOCK 5002 TAX MAP SHEET #50 TOWNSHIP OF NEPTUNE MONMOUTH COUNTY, NJ

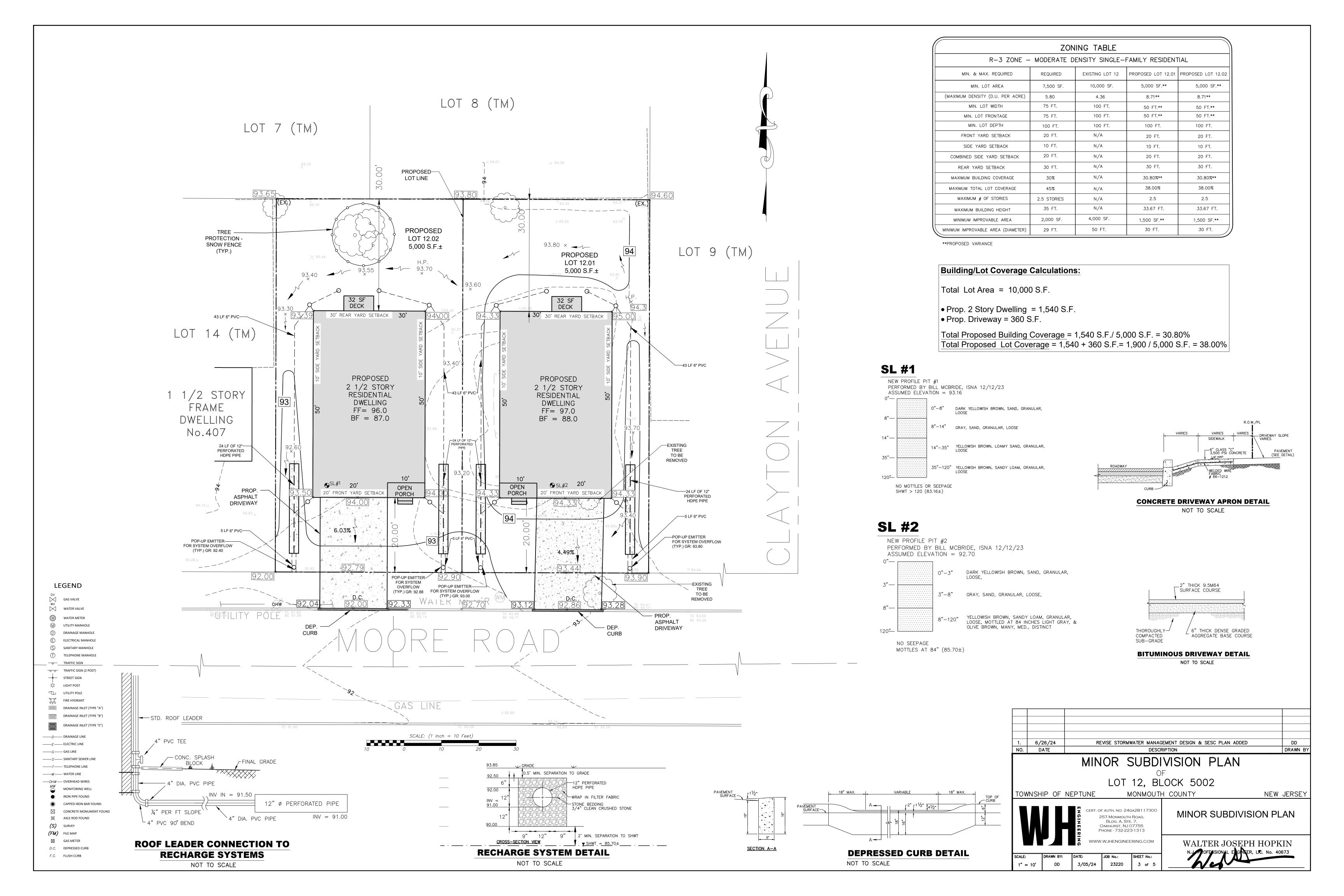
JOB NUMBER 23220

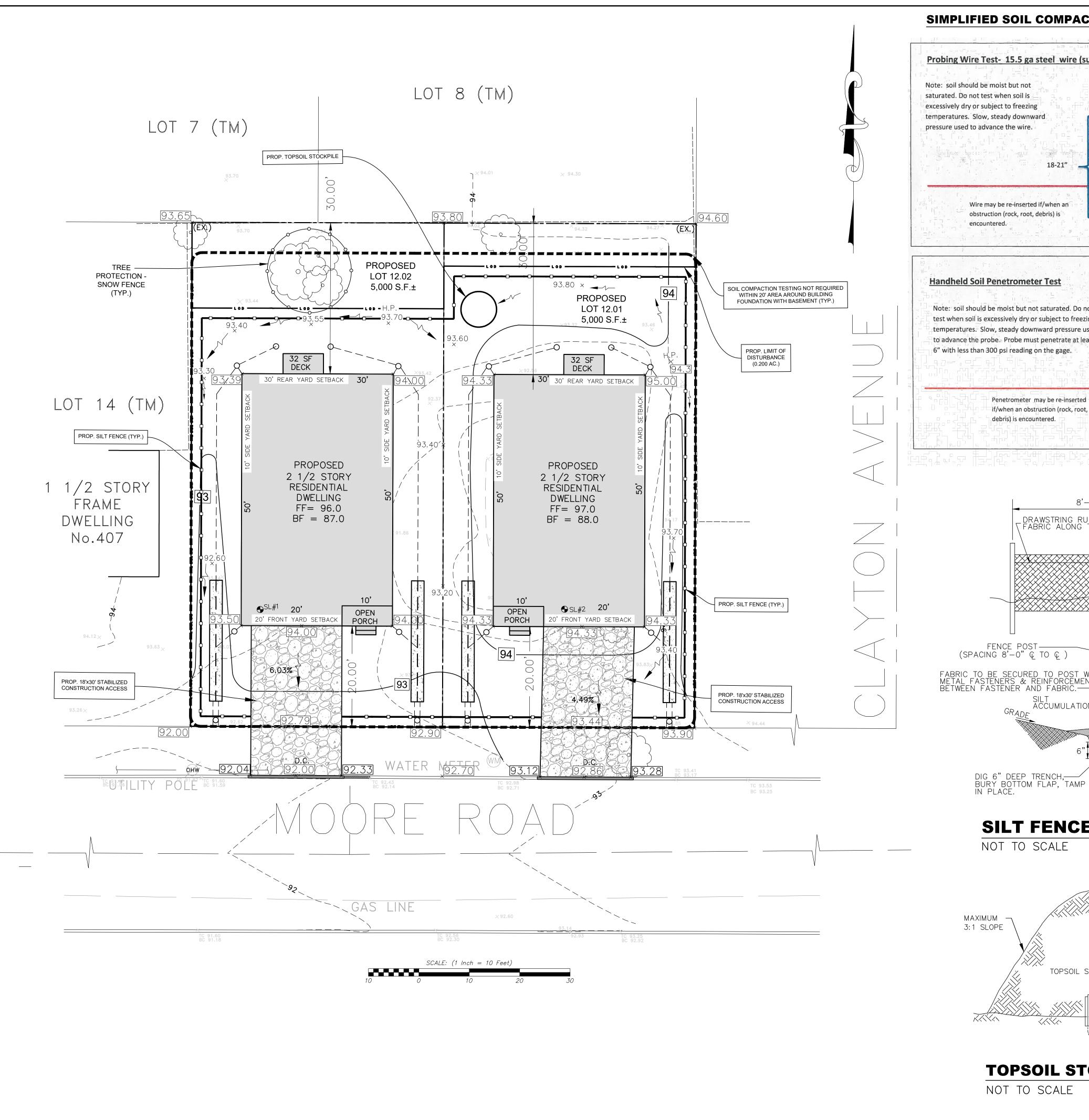


257 MONMOUTH ROAD, BLDG. A, STE. 7, OAKHURST, NJ 07755 PHONE - 732-223-1313

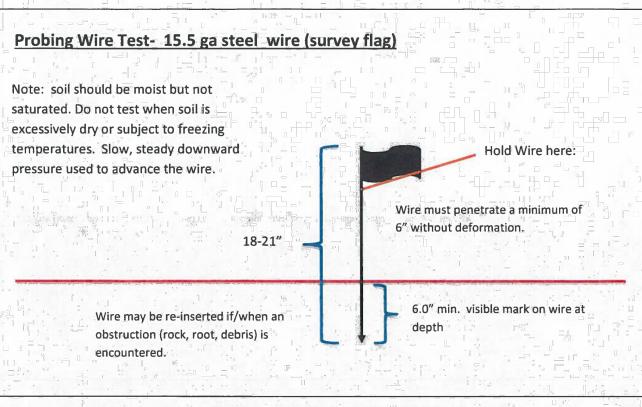
> WALTER JOSEPH HOPKIN N.J. PROFESSIONAL ENGINEER, LIC. No. 40673

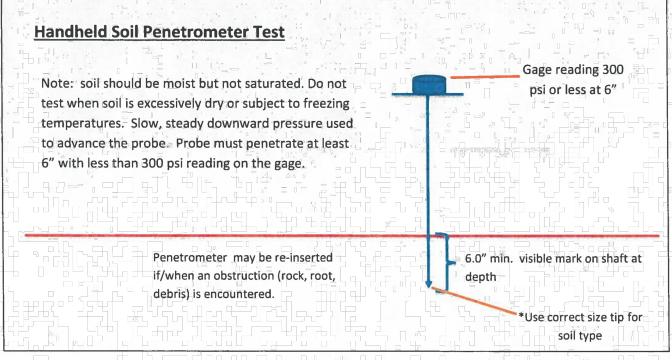


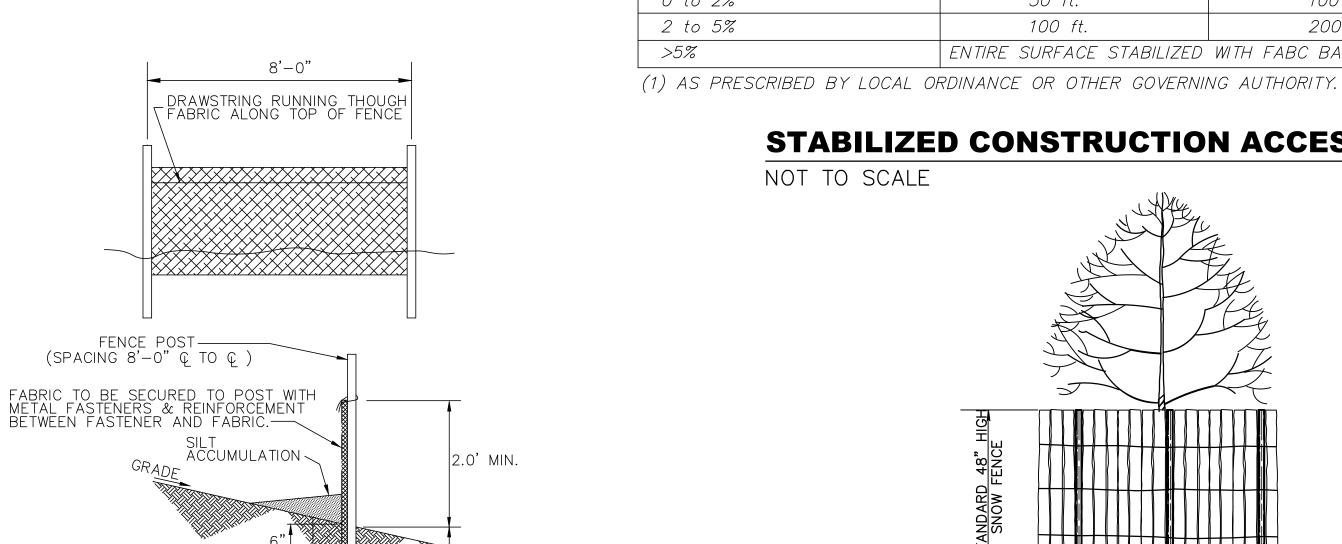




SIMPLIFIED SOIL COMPACTION TESTING METHODS

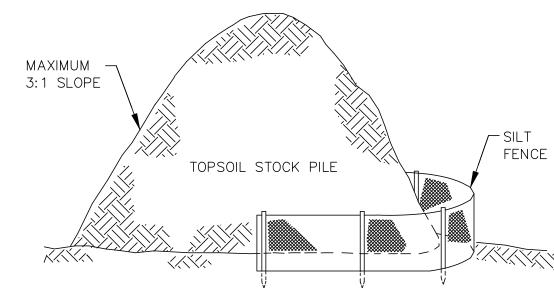






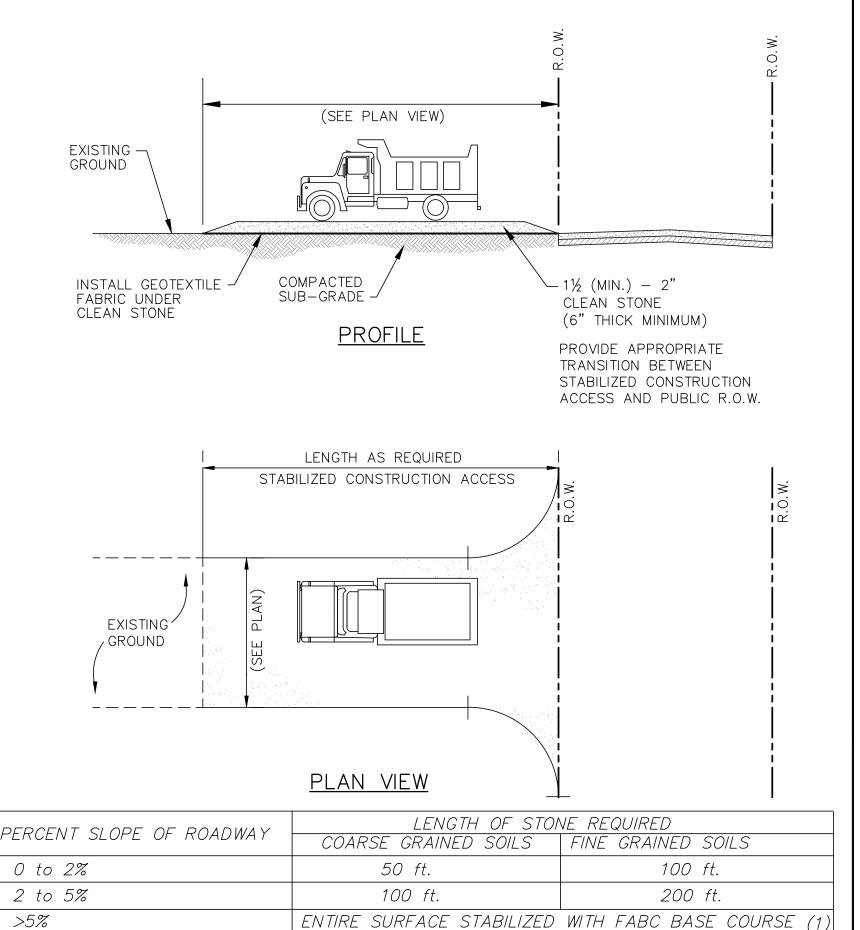
SILT FENCE DETAIL

NOT TO SCALE



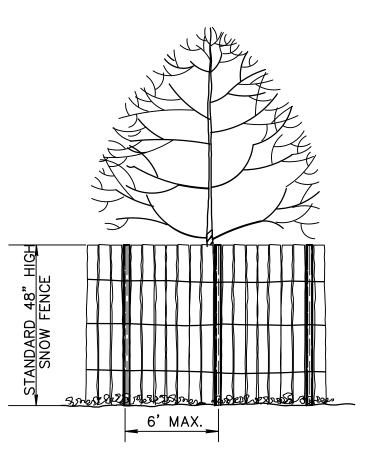
TOPSOIL STOCKPILING DETAIL

NOT TO SCALE



STABILIZED CONSTRUCTION ACCESS

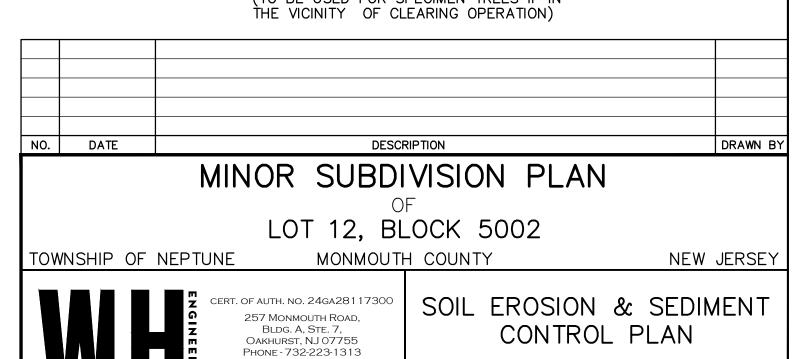
NOT TO SCALE



TREE PROTECTION DETAIL

N.T.S.

SNOW FENCE SHALL BE IDEALLY LOCATED AT THE OUTER PERIMETER OF THE SPREAD OF THE BRANCHES. IN NO CASE SHALL IT BE CLOSER THAN 10' TO THE TRUNK. NO CONSTRUCTION MATERIALS, FILL, TOPSOIL, SOIL, ETC. SHALL BE STORED INSIDE THIS FENCE. EXISTING ELEVATIONS WITHIN THE FENCING AREA SHALL REMAIN UNCHANGED AND SOIL SHALL BE LEFT UNDISTURBED. (TO BE USED FOR SPECIMEN TREES IF IN THE VICINITY OF CLEARING OPERATION)



WWW.WJHENGINEERING.COM

23220

DD

6/26/24

WALTER JOSEPH HOPKIN

PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

1. SITE PREPARATION A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING. B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING . TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE, A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES, TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER. AS NEEDED. IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING. D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE—STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.

2 SEEDBED PREPARATION A. UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND

FIRMED. ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES (HTTP: //NJAES.RUTGERS.EDU/COUNTY/). FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OF I POÚŃDS PER 1,000 SQUAŔE FEET ÓF 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY ONE—HALF THE RATE DESCRIBED ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER ONE—HALF RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5 WEEKS AFTER SEEDING. B. WORK LIME AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING-TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.

. HIGH ACID PRODUCING SOIL. SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE BEFORE INITIATING SEEDBED REPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID-PRODUCING SOILS FOR SPECIFIC REQUIREMENTS.

A. SELECT A MIXTURE FROM TABLE 4-3 OR USE A MIXTURE RECOMMENDED BY RUTGERS COOPERATIVE EXTENSION OR NATURAL RESOURCES CONSERVATION SERVICE WHICH IS APPROVED BY THE SOIL CONSERVATION DISTRICT SEED GERMINATION SHALL HAVE BEEN TESTED WITHIN 12 MONTHS OF THE PLANTING DATE. NO SEED SHALL BE ACCEPTED WITH A GERMINATION TEST DATE MORE THAN 12 MONTHS OLD UNLESS RETESTED. . SEEDING RATES SPECIFIED ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION LIP TO 50% REDUCTION IN RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO A REPORT OF COMPLIANCE

INSPECTION. THESE RATES APPLY TO ALL METHODS OF SEEDING. ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVERAGE WITH THE SPECIFIED SEED MIXTURE FOR THE SEEDED AREA AND MOWED ONCE.

2. WARM-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT HIGH

TEMPERATURES, GENERALLY 850 F AND ABOVE, SEE TABLE 4-3 MIXTURES 1 TO 7, PLANTING RATES FOR WARM-SEASON GRASSES SHALL BE THE AMOUNT OF PURE LIVE SEED (PLS) AS DETERMINED BY GERMINATION TESTING RESULTS. COOL-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT TEMPERATURES BELOW 850 F. MANY GRASSES BECOME ACTIVE AT 650 F. SEE TABLE 4-3,

MIXTURES 8-20. ADJUSTMENT OF PLANTING RATES TO COMPENSATE FOR THE AMOUNT OF PLS

B. CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION 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 . 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 CONSERVATION ON SITE WILL BE

D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK, OR TRAILER-MOUNTED TANK WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORTFIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-MULCHING BELOW). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A

MAXIMIZED.

IS NOT REQUIRED FOR COOL SEASON GRASSES.

REDUCED SEED GERMINATION AND GROWTH.

MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL PROTECT AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT. A. STRAW OR HAY. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, TO BE APPLIED AT THE RATE OF 1-1/2 TO 2

TONS PER ACRE (70 TO 90 POUNDS PER 1.000 SQUARE FEET). EXCEPT THAT WHERE A CRIMPER IS LISED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT). THE RATE OF APPLICATION IS 3 TONS PER ACRE MUI CH CHOPPER-BLOWERS MUST NOT GRIND THE MUI CH. HAY MUI CH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURE OR LAWNS DUE TO THE PRESENCE OF WEED SEED. APPLICATION - SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT AT LEAST 85% OF THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND—SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION. ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS PEG AND TWINE. DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.

2. MULCH NETTINGS — STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED. 3. CRIMPER (MULCH ANCHORING COULTER TOOL) - A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED. 4. LIQUID MULCH-BINDERS - MAY BE USED TO ANCHOR SALT HAY, HAY OR STRAW MULCH.

A. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH, IN VALLEYS, AND

AT CRESTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE. B. USE ONE OF THE FOLLOWING: (1) ORGANIC AND VEGETABLE BASED BINDERS — NATURALLY OCCURRING. POWDER—BASED. IÝDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOTOXIC FFFECT OR IMPEDE GROWTH OF TURE GRASS, USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH

MATERIALS. MANY NEW PRODUCTS ARE AVAILABLE, SOME OF WHICH MAY NEED FURTHER EVALUATION FOR USE IN THIS STATE. 2) SYNTHETIC BINDERS - HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN

NILUTED AND, FOLLOWING APPLICATION OF MULCH, DRYING AND CURING, SHALL NO LONGER BE

SOLUBLE OR DISPERSIBLE IN WATER. BINDER SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS. IOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS B. WOOD-FIBER OR PAPER-FIBER MULCH - SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING

PERIODS IN SPRING AND FALL. C. PELLETIZED MULCH — COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS, AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS/1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDED AREAS WHERE WEEDSEED FREE MULCH IS DESIRED, OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE. APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL

5 IRRIGATION (WHERE FEASIRIE) IF SOIL MOISTURE IS DEFICIENT SUPPLY NEW SEEDING WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH APPLIED UP TO TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES.

SINCE SOIL ORGANIC MATTER CONTENT AND SLOW RELEASE NITROGEN FERTILIZER (WATER INSOLUBLE) ARE PRESCRIBED IN ECTION 2A — SEEDBED PREPARATION IN THIS STANDARD, NO FOLLOW—UP OF TOPDRESSING IS MANDATORY. EXCEPTION MAY BE MADE WHERE GROSS NITROGEN DEFICIENCY EXISTS IN THE SOIL TO THE EXTENT THAT TURF FAILURE

DEVELOP, IN THAT INSTANCE, TOPDRESS WITH 10-10-10 OR EQUIVALENT AT 300 POUNDS PER ACRE OR 7 POUNDS PER

1,000 SQUARE FEET EVERY 3 TO 5 WEEKS UNTIL THE GROSS NITROGEN DEFICIENCY IN THE TURF IS AMELIORATED. . ESTABLISHING PERMANENT VEGETATIVE STABILIZATION HE QUALITY OF PERMANENT VEGETATION RESTS WITH THE CONTRACTOR. THE TIMING OF SEEDING, PREPARING THE SEEDBED, APPLYING NUTRIENTS, MULCH AND OTHER MANAGEMENT ARE ESSENTIAL. THE SEED APPLICATION RATES IN TABLE 4—3 ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO 50% REDUCTION IN APPLICATION RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO REQUESTING A REPORT OF COMPLIANCE FROM THE DISTRICT. THESE RATES APPLY TO ALL METHODS OF SEEDING. ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVER (OF THE SEEDED SPECIES) IND MOWED ONCE. NOTE THIS DESIGNATION OF MOWED ONCE DOES NOT GUARANTEE THE PERMANENCY OF THÉ TURF SHOULD OTHER MAINTENANCE FACTORS BE NEGLECTED OR OTHERWISE MISMANAGED.

PERMANENT GROUND COVER OF SODDING OR SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE OR APPROVED

240712.			
SEED MIXTURE HARD FESCUE CHEWING FESCUE STRONG CREEPING RED FESCUE PERENNIAL RYEGRASS	SEEDING RATES 130 LBS/AC OR 3.0 LBS/1,000 SF 45 LBS/AC OR 1.0 LBS/1,000 SF 45 LBS/AC OR 1.0 LBS/1,000 SF	<u>SEEDING DATES (OPTIMAL)</u> 3/1-4/30 OR 5/1-8/14 3/1-4/30 OR 5/1-8/14 3/1-4/30 OR 5/1-8/14	(<u>ACCEPTABLE</u>) 8/15-10/15 8/15-10/15 8/15-10/15
SEED TO A DEPTH OF 0.5 INC	10 LBS/AC OR 0.25 LBS/1,000 SF CHES.	3/1-4/30 OR 5/1-8/14	8/15–10/15

S. PERMANENT GROUND COVER FOR SIDE SLOPES OF PROPOSED STORMWATER BASINS SHALL CONSIST OF THE FOLLOWING SEEDING MIXTURE OR APPROVED EQUAL

SEED MIXTURE SEEDING RATES SEEDING DATES (OPTIMAL) 20 LBS/AC OR 0.45 LBS/1,000 SF DEERTONGUE 2/1-4/30 2 LBS/AC OR 0.05 LBS/1.000 SF REDITOP 2/1-4/30 WILD RYE (ELYMUS) 15 LBS/AC OR 0.35 LBS/1,000 SF 2/1-4/30 25 LBS/AC OR 0.60 LBS/1,000 SF 2/1-4/30 SWITCHGRASS

TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

SITE PREPARATION GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING, PG. 19-1. 3. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS. GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 . IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO

UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.). SEEDBED PREPARATION A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 1 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. LIMING RATES SHALL BE ESTABLISHED VIA SOIL TESTING. CALCIUM CARBONATE IS THE FOUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES.WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL A DEPTH OF 4 INCHES WITH A DISC

SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED. B. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED SOILS HIGH IN SULFIDES OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID

SEEDING			
SELECT SEED FROM RECOMMENDATION	DNS IN TABLE 7-2.		
COOL SEASON GRASSES	<u>RATES</u>	SEEDING DATES	<u>DEPTHS</u>
PERENNIAL RYEGRASS	1.0 LB/1000 SF	3/1-5/15 OR 8/15-10/1	0.5 IN.
SPRING OATS	2.0 LB/1000 SF	3/1-5/15 OR 8/15-10/1	1.0 IN.
WINTER BARLEY	2.2 LB/1000 SF	8/15-10/1	1.0 IN.
ANNUAL RYEGRASS	1.0 LB/1000 SF	3/15-6/1 OR 8/1-9/15	0.5 IN.
WINTER CEREAL RYE	2.8 LB/1000 SF	8/1-11/15	1.0 IN.
WARLA OF ACOM, OR ACCES			
<u>WARM SEASON GRASSES</u>			
PEARL MILLET	0.5 LB/1000 SF	5/15-8/15	1.0 IN.
MILLET (GERMAN OR HUNGARIAN)	0.7 LB/1000 SF	5/15-8/15	1.0 IN.

CONVENTIONAL SEEDING. APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OF CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO 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 OF HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION IV MULCHING) HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. POOR SEED TO SOIL OCCURS REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC D. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED—TO—SOIL CONTACT, RESTORE AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION

WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.

MULCHING 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. A. STRAW OR HAY. UNNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO T PRESENCE OF WEED SEED. APPLICATION. SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION. ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS PEG AND TWINE. DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRIS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR

2. MULCH NETTINGS. STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED. CRIMPER (MULCH ANCHORING TOOL). A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES, STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED. . LIQUID MULCH-BINDERS. -MAY BE USED TO ANCHOR HAY OR STRAW MULCH.

(1) ORGANIC AND VEGETABLE BASED BINDERS -NATURALLY OCCURRING, POWDER BASED, HYDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IMPEDE GROWTH OF TURFGRASS. USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH MATERIALS. MANY NEW PRODUCTS ARE AVAILABLE, SOME OF WHICH MAY NEED FURTHER EVALUATION FOR USE

APPLICATION TO MULCH, DRYING AND CURING SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER. IT SHALL BE APPLIED ALL NAMES GIVE ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A COMMENDATION OF THESE B. WOOD-FIBER OR PAPER-FIBER MULCH. SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 PONDS PER ACRE (OR AS RECOMMENDED BY THE PROJECT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. THIS MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS

CO-POLYMERS. TACKIFIERS. FERTILIZERS AND COLORING AGENTS. THE DRY PELLETS. WHEN APPLIED TO A SEEDED AREA AND WATERED, FORMA MULCH MAT. PELLETIZED MULCH SHALL BE APPLIES IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, MULICH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS. /1.000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEE FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDED AREAS WHERE WEED-SEED FREE MULCH IS DESIRED OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE. APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.

SEQUENCE OF CONSTRUCTION

- . INSTALLATION OF SEDIMENT FABRIC PRIOR TO ANY LAND DISTURBANCE. (2 DAYS)
- 2. APPLICATION OF PROPER MEASURES FOR THE CONTROL OF SOIL EROSION AND SEDIMENT CONTROL. (2 DAYS) 3. CONSTRUCT VEHICLE WHEEL-CLEANING BLANKET WHERE CONSTRUCTION TRAFFIC ENTERS PAVED ROADWAYS. (1 DAY)
- 4. INSTALLATION OF SILT FENCES. (1 DAY)
- 5. CLEARING SITE AS SHOWN ON THE PLANS WITH APPROPRIATE EROSION CONTROL FACILITIES. (1 WEEK)
- 6. APPLICATION OF TEMPORARY SEEDING TO STABILIZE ANY DISTURBED STEEP SLOPES. (ONGOING)
- 7. SITE GRADING (1 WEEK)
- 8. CONSTRUCT PROPOSED DWELLING, DRIVEWAY, AND RECHARGE SYSTEM. (4 WEEKS)
- 9. MAINTENANCE OF SOIL EROSION AND SEDIMENT CONTROL. (ONGOING)
- 10. RE-GRADING AND STABILIZATION OF LAWN AREAS. (1 WEEK)
- 11. SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE AT A MINIMUM DEPTH OF 6") (1 WEEK)
- 12. REMOVAL OF SILT FENCES. (1 DAY)

13. REMOVAL OF SOIL EROSION AND SEDIMENT CONTROL FACILITIES WHEN PERMANENT EROSION CONTROL MEASURES ARE ACCEPTED BY THE TOWNSHIP ENGINEER. (1 WEEK)

SEED TO A DEPTH OF 0.5 INCHES.

APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE. B. USE ONE OF THE FOLLOWING:

IN THIS STATE. (2) SYNTHETIC BINDERS -HIGH POLYMER SYNTHETIC EMULSION. MISCIBLE WITH WATER WHEN DILUTED AND FOLLOWING AT RATES RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS. PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS. LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL. . PELLETIZED MULCH. COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN

SOIL EROSION AND SEDIMENT CONTROL NOTES

- 1. The Freehold Soil Conservation District shall be notified forty-eight (48) hours in advance of any soil disturbing 2. All Soil Erosion and Sediment Control practices are to be installed prior to soil disturbance, or in their proper
- sequence, and maintained until permanent protection is established. 3. Any changes to the Certified Soil Erosion and Sediment Control Plans will require the submission of revised Soil Erosion and Sediment Control Plans to the District for re-certification. The revised plans must meet all current State Soil Erosion and Sediment Control Standards.
- 4. N.J.S.A 4:24-39 et. Seq. requires that no Certificates of Occupancy be issued before the District determines that a project or portion thereof is in full compliance with the Certified Plan and Standards for Soil Erosion and Sediment Control in New Jersey and a Report of Compliance has been issued. Upon written request from the applicant, the District may issue a Report of Compliance with conditions on a lot-by-lot or section-by-section basis, provided that the project or portion thereof is in satisfactory compliance with the sequence of development and temporary measures for soil erosion and sediment control have been implemented, including provisions for stabilization and site
- 5. Any disturbed areas that will be left exposed more than sixty (60) days, and not subject to construction traffic, will immediately receive a temporary seeding. If the season prevents the establishment of temporary cover, the disturbed areas will be mulched with straw, or equivalent material, at a rate of 2 to 2 ½ tons per acre, according to the Standard for Stabilization with Mulch Only.
- 6. Immediately following initial disturbance or rough grading, all critical areas subject to erosion (i.e. soil stockpiles, steep slopes and roadway embankments) will receive temporary seeding in combination with straw mulch or a suitable equivalent, and a mulch anchor, in accordance with State Standards.
- 7. A sub-base course will be applied immediately following rough grading and installation of improvements to stabilize streets, roads, driveways, and parking areas. In areas where no utilities are present, the sub-base shall be installed within fifteen (15) days of the preliminary grading.

8. The Standard for Stabilized Construction Access requires the installation of a pad of clean crushed stone at points

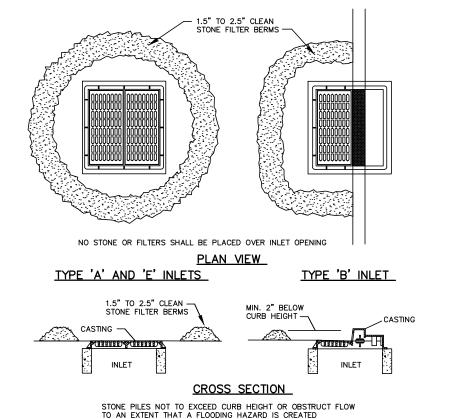
- where traffic will be accessing the construction site. After interior roadways are paved, individual lots require a stabilized construction access consisting of one inch to two inch (1"-2") stone for a minimum length of ten feet (10') equal to the lot entrance width. All other access points shall be blocked off. 9. All soil washed, dropped, spilled, or tracked outside the limit of disturbance or onto public right-of-ways will be
- removed immediately. 10. Permanent vegetation is to be seeded or sodded on all exposed areas within ten (10) days after final grading.
- 11. At the time that site preparation for permanent vegetative stabilization is going to be accomplished, any soil that will not provide a suitable environment to support adequate vegetative ground cover shall be removed or treated in such a way that it will permanently adjust the soil conditions and render it suitable for vegetative ground cover. If the removal or treatment of the soil will not provide suitable conditions, non-vegetative means of permanent ground
- stabilization will have to be employed. 12. In accordance with the Standard for Management of High Acid Producing Soils, any soil having a pH of 4 or less or containing iron sulfides shall be ultimately placed or buried with limestone applied at the rate of 10 tons/acre, (or 450 lbs/1,000 sq ft of surface area) and covered with a minimum of 12" of settled soil with a pH of 5 or more, or 24"
- where trees or shrubs are to be planted. 13. Conduit Outlet Protection must be installed at all required outfalls prior to the drainage system becoming operational
- 14. Unfiltered dewatering is not permitted. Necessary precautions must be taken during all dewatering operations to minimize sediment transfer. Any dewatering methods used must be in accordance with the Standard for Dewatering. 15. Should the control of dust at the site be necessary, the site will be sprinkled until the surface is wet, temporary vegetative cover shall be established or mulch shall be applied as required by the Standard for Dust Control.
- 16. Stockpile and staging locations established in the field shall be placed within the limit of disturbance according to the certified plan. Staging and stockpiles not located within the limit of disturbance will require certification of a revised Soil Erosion and Sediment Control Plan. Certification of a new Soil Erosion and Sediment Control Plan may be equired for these activities if an area greater than 5,000 square feet is disturbed.
- 7. All soil stockpiles are to be temporarily stabilized in accordance with Soil Erosion and Sediment Control note #6. 18. The property owner shall be responsible for any erosion or sedimentation that may occur below stormwater outfalls

or offsite as a result of construction of the project.

Freehold Soil Conservation District 4000 Kozloski Road, Freehold, NJ 07728-5033, (732) 683-8500, fax (732) 683-9140, Email: info@freeholdscd.org.

TOPSOIL SPECIFICATIONS

- A. 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. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE CONDUCTIVITY LESS THAN 0.5 MILLIMHOS PER CENTIMETER. MORE THAN 0.5 MILLIMHOS MAY DESICCATE SEEDLINGS AND ADVERSELY IMPACT GROWTH). IMPORTED TOPSOIL SHALL HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT. ORGANIC MATTER CONTENT MAY BE RAISED BY ADDITIVES.
- B. TOPSOIL SUBSTITUTE IS A SOIL MATERIAL WHICH MAY HAVE BEEN AMENDED WITH SAND, SILT, CLAY, ORGANIC MATTER, FERTILIZER OR LIME AND HAS THE APPEARANCE OF TOPSOIL, TOPSOIL SUBSTITUTES MAY BE UTILIZED ON SITES WITH INSUFFICIENT TOPSOIL FOR ESTABLISHING PERMANENT VEGETATION. ALL TOPSOIL SUBSTITUTE MATERIALS SHALL MEET THE REQUIREMENTS OF TOPSOIL NOTED ABOVE. SOIL TESTS SHALL BE PERFORMED TO DETERMINE THE COMPONENTS
- OF SAND, SILT, CLAY, ORGANIC MATTER, SOLUBLE SALTS AND PH LEVEL. 2. STRIPPING AND STOCKPILING A. FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND OR QUALITY OF
- SURFACE SOIL JUSTIFIES STRIPPING. STRIPPING SHALL BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY SOIL
- TESTS TO BRING THE SOIL PH TO APPROXIMATELY 6.5. A 4-6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE F. STOCKPILES SHOULD BE VEGETATED IN ACCORDANCE WITH STANDARDS PREVIOUSLY DESCRIBED
- HEREIN: SEE STANDARDS FOR PERMANENT (PG. 4-1) OR TEMPORARY (PG.7-1) VEGETATIVE COVER FOR SOIL STABILIZATION. WEEDS SHOULD NOT BE ALLOWED TO GROW ON STOCKPILES A. GRADE AT THE ONSET OF THE OPTIMAL SEEDING PERIOD SO AS TO MINIMIZE THE DURATION
- AND AREA OF EXPOSURE OF DISTURBED SOIL TO EROSION. IMMEDIATELY PROCEED TO ESTABLISH VEGETATIVE COVER IN ACCORDANCE WITH THE SPECIFIED SEED MIXTURE. TIME IS OF B. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR
- SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE. SEE THE STANDARD FOR LAND GRADING, PG. 19-1. C. AS GUIDANCE FOR IDEAL CONDITIONS, SUBSOIL SHOULD BE TESTED FOR LIME REQUIREMENT LIMESTONE, IF NEEDED, SHOULD BE APPLIED TO BRING SOIL TO A PH OF APPROXIMATELY 6.5
- AND INCORPORATED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES D. PRIOR TO TOPSOILING, THE SUBSOIL SHALL BE IN COMPLIANCE WITH THE STANDARD FOR LAND F. FMPLOY NEEDED FROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENTATION BASINS, AND WATERWAYS.
- SEE STANDARDS 11 THROUGH 42. A. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE; I.E., LESS THAN FIELD CAPACITY (SEE GLOSSARY). B. A UNIFORM APPLICATION TO AN AVERAGE DEPTH OF 5.0 INCHES, MINIMUM OF 4 INCHES,
 - FIRMED IN PLACE IS REQUIRED. ALTERNATIVE DEPTHS MAY BE CONSIDERED WHERE SPECIAL REGULATORY AND/OR INDUSTRY DESIGN STANDARDS ARE APPROPRIATE SUCH AS ON GOLF COURSES, SPORTS FIELDS, LANDFILL CAPPING, ETC., SOILS WITH A PH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM DEPTH OF 12 INCHES OF SOIL HAVING A PH OF 5.0 OR MORE, IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT O HIGH ACID PRODUCING SOIL (PG. 1-
 - PURSUANT TO THE REQUIREMENTS IN SECTION 7 OF THE STANDARD FOR PERMANENT VEGETATIVE STABILIZATION, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT PERMANENT VEGETATIVE COVER BECOMES ESTABLISHED ON AT LEAST 80% OF THE SOILS TO BE STABILIZED WITH VEGETATION. FAILURE TO ACHIEVE THE MINIMUM COVERAGE MAY REQUIRE ADDITIONAL WORK TO BE PERFORMED BY THE CONTRACTOR TO INCLUDE SOME OR ALL OF THE FOLLOWING SUPPLEMENTAL SEEDING, RE-APPLICATION OF LIME AND FERTILIZERS, AND/OR THE ADDITION OF ORGANIC MATTER (I.E. COMPOST) AS A TOP DRESSING. SUCH ADDITIONAL MEASURES SHALL BE BASED ON SOIL TÈSTS SUCH AS THOSE OFFERED BY RUTGERS COOPERATIVE EXTENSION SERVICE OR OTHER APPROVED LABORATORY FACILITIES QUALIFIED TO TEST SOIL SAMPLES FOR AGRONOMIC PROPERTIES.



INLET PROTECTION DETAILS

NOT TO SCALE

SOIL DECOMPACTION AND TESTING REQUIREMENTS

A. SOIL COMPACTION TESTING REQUIREMENTS

- I. SUBGRADE SOILS PRIOR TO THE APPLICATION OF TOPSOIL "STANDARD FOR VEGETATIVE COVER" NOTES SHALL BE FREE OF EXCESSIVE COMPACTION TO A **DEPTH OF 6.0 INCHES** TO ENHANCE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER (SEE "STANDARD FOR VEGETATIVE COVER" NOTES FOR TOPSOIL REQUIREMENTS).
- 2. AREAS OF THE SITE WHICH ARE SUBJECT TO COMPACTION TESTING AND/OR MITIGATION ARE GRAPHICALLY DENOTED ON THE SOIL EROSION CONTROL PLAN. MINIMUM 2 TESTS FOR LIMIT OF DISTURBANCE UP TO I ACRE, PLUS 2 TESTS PER ACRE OF LIMIT OF DISTURBANCE
- 3. COMPACTION TESTING LOCATIONS ARE DENOTED ON THE PLAN. A COPY OF THE PLAN SHALL BE USED TO MARK THE LOCATIONS OF TESTS AND ATTACHED TO THE COMPACTION REMEDIATION FORM, AVAILABLE FROM THE LOCAL SOIL CONSERVATION DISTRICT. THIS FORM MUST BE FILLED OUT AND SUBMITTED PRIOR TO RECEIVING A CERTIFICATE OF COMPLIANCE FROM THE DISTRICT.
- 4. IN THE EVENT THAT TESTING INDICATES COMPACTION IN EXCESS OF THE MAXIMUM THRESHOLDS INDICATED FOR THE PROBING OR PENETRATION TESTING METHODS (SEE DETAILS), THE CONTRACTOR/OWNER SHALL HAVE THE OPTION TO PERFORM EITHER (I) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA DENOTED ON THE PLAN (EXCLUDING EXEMPT AREAS), OR (2) PERFORM ADDITIONAL DENSITY TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL DENSITY TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.
- B. COMPACTION TESTING METHODS
- I. PROBING WIRE TEST (SEE DETAIL)
- 2. HANDHELD PENETROMETER TEST (SEE DETAIL).

THEREAFTER, SPACED EVENLY THROUGHOUT THE SITE.

- 3. TUBE BULK DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)
- 4. NUCLEAR DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)
- 5. ADDITIONAL TESTING METHODS WHICH CONFORM TO ASTM STANDARDS AND SPECIFICATIONS, AND WHICH PRODUCE A DRY WEIGHT, SOIL BULK DENSITY MEASUREMENT MAY BE ALLOWED SUBJECT TO DISTRICT APPROVAL.
- NOTE: SOIL COMPACTION TESTING IS NOT REQUIRED IF/WHEN SUBSOIL COMPACTION MITIGATION IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION. FOR ADDITIONAL REQUIREMENTS AND EXEMPTIONS SEE SECTION 19 "STANDARD FOR LAND GRADING" OF THE STANDARD.

C. PROCEDURES FOR SOIL COMPACTION MITIGATION

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

- 2. RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).
- 3. IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAY BE SUBSTITUTED SUBJECT TO DISTRICT APPROVAL.

STABILIZATION WITH MULCH ONLY

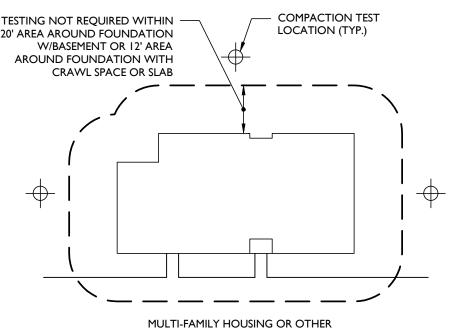
- Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation. seeding, mulch application and mulchco anchoring. All grading shall be done in accordance with
- standards for Land Grading. Install needed erosion control practices or facilities such as diversions, grade stabilization structures,
- channel stabilization measures, sediment basins and waterways. Unrotted small-grain straw, at 2.0 to 2.5 tons pr acre, is spread uniformly at 90 to 115 pounds per 1,000 s.f. and anchored with a mulch anchoring tool. liquid mulch binders, or netting tie down. Other
- suitable materials may be used if approved by the Soil Conservation District. The approved rates above have been met when the mulch covers the ground completely upon visual inspection, i.e. the soil cannot Synthetic or organic stabilizers may be used under suitable conditions and in quantities as recommended
- Nood—fiber or paper—fiber mulch at the rate of 1,500 pounds per acre (or according to manufacturer's requirements) may be applied by a hydroseeder. Mulch netting, such as paper jute, excelsior, cotton or plastic, may be used. Woodchips applied uniformly to a minimum depth of 2 inches may be used. Woodchips will not be used on areas where flowing water could wash them away into an inlet and plug it.
- depth of 3 inches may be used. Size 2 or 3 (ASTM C-33) is recommended. Mulch Anchoring shall be accomplished immediately after placement to minimize loss by wind or water. This may be done by one of the following methods, depending upon the size of the area, steepness of slope

Pea and Twine. Drive 8 to 10 inch wooden peas within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after apply soil surface by stretching twine between pegs in a crissross and a square pattern. Secure twine around each peg with two or more round turns.

Mulch Nettings- Staple paper, jute, cotton or plastic nettings to the soil su degradable nettings in areas to be mowed. Crimper (mulch anchoring coulter tool) A tractor drawn implement, somewhat like a disc harrow, especially designed to push or cut some of the broadcast long fiber mulch 3 to 4 inches into the soilso as to anchor it and leave part standing upright. This technique is limited to areas traversable by tractor, which must operate on the contour of slopes. Straw mulch rate must be 3 tons per acre. No tackifying or adhesive agent is required.

Liquid Mulch-Binders May be used to anchor salt hay, hay or straw mulch Applications should be heavier at edges where wind may catch the mulch, in valleys and at crests of banks. The remainder of the area should be uniform in appearance.

- a. Organic and Vegetable Based Binders Naturally occurring, powder base, hydrophilic materials when mixed with water formulates a gel and when applied to mulch under satisfactory curing conditions will form membraned networks of insoluble polymers. Th vegetable gel shall be physiologically harmless and not result in a phytotoxic effect or impede growth of turfgrass. Use at rates and weather conditions as recommended by the manufacturer to anchor much materials. Many new products are available, some of which
- may need further evaluation for use in this state. b. Synthetic Binders High polymer synthetic emulsion, miscible with water when diluted and following application to mulch, drying and curing shall no longer be soluble or dispersible in water. It shall be applied at rates recommended by the manufacturer and remain tacky



until germination of grass.

NON-RESIDENTIAL BUILDING/STRUCTURE

I. SOIL COMPACTION TESTING LOCATIONS IDENTIFIED ARE RECOMMENDED LOCATIONS FOR GRADED/DISTURBED AREAS WITHIN THE VICINITY OF BUILDINGS AND STRUCTURES OR ON INDIVIDUAL LOTS. MINIMUM TWO (2) TEST PITS PER LOT UP TO 1 ACRE OF

FOR GRADED/DISTURBED AREAS WITHIN OPEN OR COMMON SPACES, SOIL COMPACTION TESTING SHALL BE PERFORMED AT TWO (2) TEST PITS PER ACRE OF OVERALL LIMIT OF DISTURBANCE, EVENLY DISTRIBUTED.

TYPICAL SOIL COMPACTION TESTING LOCATIONS DETAIL

NOT TO SCALE

SEEDING NOTES

OR APPROVED EQUAL:

SEED TO A DEPTH OF 0.5 IN.

- 1. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND MULCH ANCHORING.
- 2. TEMPORARY SEEDING SHALL CONSIST OF EITHER: COOL SEASON GRASSES RATES
 PERENIAL RYEGRASS 1.0 LB./ <u>SEEDING DATES</u> 3/1-5/15 OR 8/15-10/1 1.0 LB./S.F. 2.0 LB./S.F. 0.5 IN. 3/1-5/15 OR 8/15-10/1 1.0 IN. WINTER CEREAL RYE 2.8 LB/S.F. 1.0 IN. 8/1-11/15 WARM SEASON GRASSES

0.5 LB./S.F. 5/15-8/15

TRAFFIC WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING IF THE SÉASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER THE DISTURBED AREAS WILL BE MULCHED WITH LINROTTED SMALL GRAIN STRAW AT 2.0 TO 2.5 TONS PER ACRE, (90 TO 115 LBS. PER 1,000 S.F.), AND ANCHORED WITH A MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING TIE DOWN, OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT. FERTILIZER APPLIED WITH TEMPORARY SEEDING MUST BE 10-20-10, WHILE THAT APPLIED WITH PERMANENT VEGETATIVE COVER MUST BE 10-10-10. 4. SUBSOIL SHOULD BE TESTED FOR LIME REQUIREMENT AND LIMESTONE, IF NEEDED, SHOULD BE APPLIED TO BRING SOIL PH TO 6.5 AND INCORPORATED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4

INCHES. APPLY FERTILIZER AT A RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER SQUARE FEET USING

ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN (30) DAYS, AND NOT SUBJECT TO CONSTRUCTION

1.0 IN.

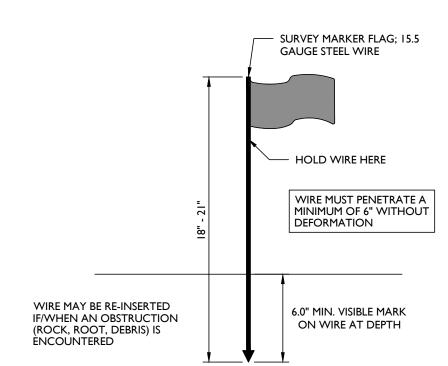
1.0 IN.

- 5. REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION REMOVE ALL OTHER
- DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, LUMPS OR ANY OTHER UNSUITABLE 6. PERMANENT GROUND COVER OF SODDING OR SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE
- SFFD MIXTURE SEEDING RATES SEEDING DATES (OPTIMAL) 130 LBS./ACRE 3.0 LBS/1000 SF MAR. 1-APR. 30 MAY 1-AUG 14 AUG 15-OCT 15 HARD FESCUE 10 LBS./ACRE 0.25 LBS/1000 SF MAR. 1-APR. 30 MAY 1-AUG 14 AUG 15-OCT 15 PERENNIAL RYEGRASS STRONG CREEPING RED FESCUE 45 LBS./ACRE 1.0 LBS/1000 SF MAR. 1-APR. 30 MAY 1-AUG 14 AUG 15-OCT 15 CHEWING FESCUE 45 LBS./ACRE 1.0 LBS/1000 SF MAR. 1-APR. 30 MAY 1-AUG 14 AUG 15-OCT 15
- THE SEEDING SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG.
- TACKING SHALL BE PERFORMED AS PER FREEHOLD SOIL CONSERVATION DISTRICT CURRENT STANDARDS. ASPHALT TACKIFIERS ARE NOT ACCEPTABLE.
- IN ADDITION TO THE ABOVE, REFER TO THE STATE STANDARDS FOR:

MILLET (GERMAN OR HUNGARIAN) 0.7 LB. S.F. 5/15-8/15

PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION PERMANENT STABILIZATION WITH SOD TEMPORARY VEGETATIVE COVER FOR SOIL

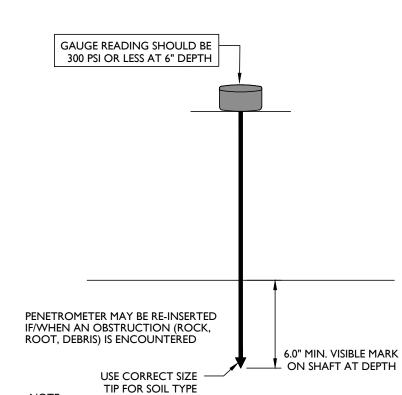
STABILIZATION TOPSOILING



NOTES: I. SOIL SHOULD BE MOIST BUT NOT SATURATED, DO NOT TEST WHEN SOIL IS EXCESSIVELY DRY OR SUBJECT TO FREEZING TEMPERATURES. SLOW, STEADY

DOWNWARD PRESSURE ÚSED TO ADVANCE THE WIRE. 2. RECORD THE DEPTH OF PENETRATION WHEN WIRE IS DEFORMED.

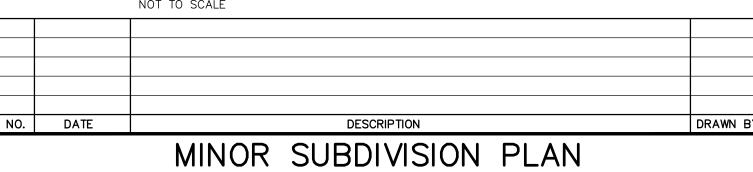
PROBING WIRE TEST DETAIL



I. SOIL SHOULD BE MOIST BUT NOT SATURATED, DO NOT TEST WHEN SOIL IS EXCESSIVELY DRY OR SUBJECT TO FREEZING TEMPERATURES. SLOW, STEADY DOWNWARD PRESSURE USED TO ADVANCE THE PROBE. PROBE MUST PENETRATE AT LEAST 6" WITH LESS THAN 300 PSI READING ON THE GAUGE.

2. USE 1/2" TIP FOR FIRM SOIL, 3/4" TIP FOR SOFT SOIL.

HANDHELD SOIL PENETROMETER TEST DETAIL



LOT 12, BLOCK 5002 MONMOUTH COUNTY FOWNSHIP OF NEPTUNE OF AUTH. NO. 24GA28117300

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23220

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL PLAN NOTES & DETAILS

6/26/24