I S Z 4 K

BOROUGH OF	F KEANSBURG ON	
ATTEST:	SECRETARY	CHA
APPROVED AS A	PRELIMINARY/FINAL MAJOR S	ITE PLAN BY
BOROUGH OF KE	ANSBURG PLANNING BOARD	ON

		7 LAUREL AVENUE KEANSBURG NJ 07734			JOSSELYN 14 CHARLES AVE KEANSBURG NJ 07734
1323	1.02-3	KIB ENTERPRISES INC 33 LAUREL AVE KEANSBURG NJ 07734	1323	1-4	MORRO CHARLES P 12 CHARLES AVE KEANSBURG NJ 07734
1323	1.02-5	RMC LLC 7 LAUREL AVENUE KEANSBURG NJ 07734	1323	2-10	NIERADKA EVIN 144D BAY AVENUE HIGHLANDS NJ 07732
1323	1.03-1	RMC LLC 7 LAUREL AVENUE KEANSBURG NJ 07734	1323	1.02-2	SIMONE PHILIP & ANNA 9 FIFTH STREET WEST KEANSBURG NJ 07734
1323	2-1.01	TRC REAL ESTATE PARTNERSHIP 7 LAUREL AVE KEANSBURG NJ 07734	1323	1-6.01	KEANSBURG PROPERTIES LLC PO BOX 7582 MONROE NJ 08831
1323	1-1	RMC LLC 7 LAUREL AVENUE KEANSBURG NJ 07734	1318	1-1	PS MARINE SERVICES LLC 7 LAUREL AVENUE KEANSBURG NJ 07734
1323	1-5	GELCO GENERAL SERVICES INC. F-4 AVON DRIVE EAST WINDSOR NJ 08520	1323	1.04-1	RMC LLC 7 LAUREL AVE KEANSBURG NJ 07734
1323	1-2.01	HARTSGROVE BRIAN R&HANSEN JOSEPH P 16 CHARLES AVE KEANSBURG NJ 07734	1323	69-20	YERUSHALMY TALMUDICAL ACADEMY 32 LAUREL AVE KEANSBURG NJ 07734
1323	1-2.02	RAZZANO FRANK F 24 CHARLES AVE KEANSBURG NJ 07734	1323	70-1	BOROUGH OF KEANSBURG 29 CHURCH ST KEANSBURG NJ 07734
1323	1.02-1	RMC LLC 39 CHARLES AVENUE KEANSBURG NJ 07734	1323	183-1	RMC LLC 7 LAUREL AVENUE KEANSBURG NJ 07734
1323	1-7	MIDWEST EQUITIES LLC 400 BLVD OF AMERICAS #304 LAKEWOOD NJ 08701	1350	249-1	INTERNATIONAL FLAVORS & FRAGRANCES BOX 8 %ACCS PAYABLE001 HAZLET NJ 07730
1323	1-8	LOEBER KATHERINE ANN 87 MAPLEWOOD AVE. KEANSBURG NJ 07734	1323	1.02-4	BAYSIDE COVE MARINA LLC 35 LAUREL AVE KEANSBURG NJ 07734
1323	1-9	HESSLER PATRICIA METALS 89 MAPLEWOOD AVE KEANSBURG NJ 07734	1318	1.02-7	LAPITZKI STEVEN & NICHOLAS LAPITZKI 320 VILLA PARKWAY SPRING LAKE NJ 07762
			1323	69-19	TORRES JULIO 44 CREEK ROAD KEANSBURG NJ 07734
	20	0' PROPER	RTY	OWI	NERS

DARLINE MARK L

2 ANNAPOLIS DR

HAZLET NJ 07730

RMC LLC

PREPARED FOR: BAYSIDE COVE DEVELOPMENT

ALVEN THEODORE

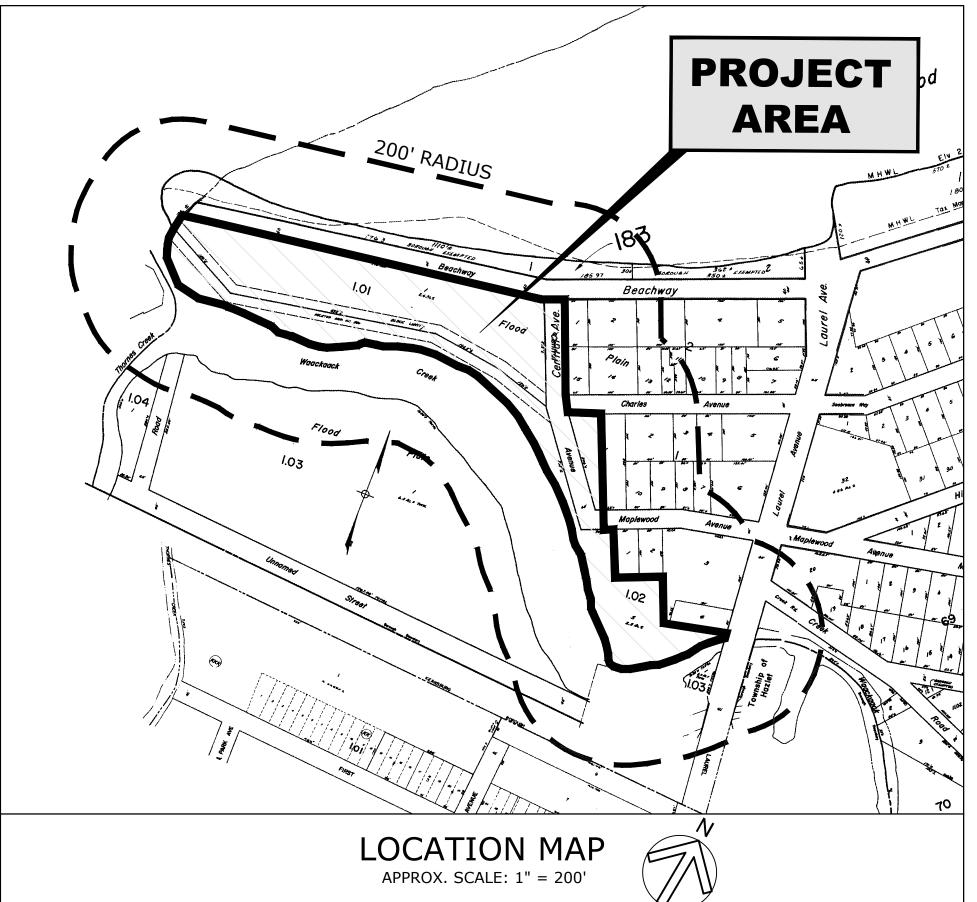
97 MAPLEWOOD AVE

KEANSBURG NJ 07734

MOON LOGAN SCOTT &

PRELIMINARY & FINAL MAJOR SITE PLAN

LOT 1 IN BLOCK 1.01, LOT 1 IN BLOCK 1, LOT 4 & 5 IN BLOCK 1.02 BOROUGH OF KEANSBURG MONMOUTH COUNTY - NEW JERSEY TAX MAP SHEET 1, LAST REVISED MARCH 2023



PROJECT ATTORNEY: MAURICE J. MALONEY, ESQ. 621 SHREWSBURY AVENUE, SHREWSBURY, NJ 07702 732-758-0044

PROJECT SURVEYOR:

APPROVED AS A PRELIMINARY / FINAL PLAT	OF A SITE PLAN BY THE	INDEX OF SHEETS				
BOROUGH OF KEANSBURG ON		TITLE SHEET	FILE TS-1	<u>NO.</u> 1 OF 8	PLAN DATE 11/20/24	PARKING PROVIDED <u>RV PAD SITES:</u>
	CHAIRPERSON	EXISTING CONDITIONS AND DEMOLITION PLAN LAYOUT AND UTILITY PLAN GRADING PLAN	EX-1 LP-1 GP-1	2 OF 8 3 OF 8 4 OF 8	11/20/24 11/20/24 11/20/24	LARGE 25' X RV SPACE PASSENGI
ATTEST: 	DATE	LANDSCAPING PLAN SOIL EROSION AND SEDIMENT CONTROL PLAN SOIL EROSION CONTROL SPECIFICATIONS	LL-1 SE-1 SECS-1	5 OF 8 6 OF 8 7 OF 8	11/20/24 11/20/24 11/20/24	SMALL 25' × RV SPACE PASSENG
		CONSTRUCTION DETAILS	CD-1	8 OF 8	11/20/24	ADDITIONAL
PROVED AS A PRELIMINARY/FINAL MAJOR SIT	TE PLAN BY THE					TOTAL PARKING PRO

BOARD ENGINEER

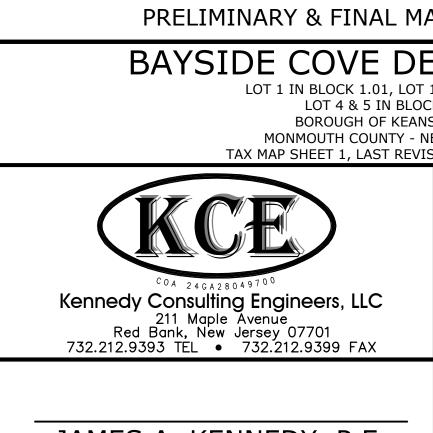
YORKANIS & WHITE, INC. 23 VILLAGE COURT HAZLET, N.J. 07730

- GENERAL NOTES:
- 1. PROPERTY BEING KNOWN AS LOT 1 IN BLOCK 1.01, LOT 1 IN BLOCK 1, LOTS 4 & 5 IN BLOCK 1.02, AS SHOWN ON SHEE 1 & 33 OF THE CURRENT OFFICIAL TAX MAP OF THE BOROUGH OF KEANSBURG (MAP 1, LAST REVISED MARCH 20
- 2. PRELIMINARY & FINAL MAJOR SITE PLAN APPROVAL IS HEREBY REQUESTED FOR CONSTRUCTION OF TWELVE (12) RV PAE SITES, A GUARD HOUSE, OTHER IMPROVEMENTS TO THE EXISTING MARINA INCLUDING THE CONSTRUCTION OF PARKING AREAS, UTILITY INFRASTRUCTURE, LANDSCAPING IMPROVEMENTS, RETAINING WALLS, AND GRADING,
- 3. THE SUBJECT PROPERTY IS LOCATED WITHIN THE CR ZONE.
- 4. TOPOGRAPHICAL SURVEY INFORMATION SHOWN HEREON TAKEN FROM MAP ENTITLED: "BOUNDARY & TOPOGRAPHICAL SURVEY MAP OF PROPERTIES KNOWN AS LOT 1 IN BLOCK 1.01; LOT 1 IN BLOCK 1; LOTS 1 & 2 IN BLOCK 183 AND LOTS 4 & 5 IN BLOCK 1.02. BOROUGH OF KEANSBURG, MONMOUTH COUNTY - NEW JERSEY," PREPARED YORKANIS & WHITE, INC., SIGNED BY JOHN T. LUTS, PLS. DATED, MARCH 17, 2020. LAST REVISED 09/23/22
- 5. PROPERTY OWNER & APPLICANT RMC, LLC 7 LAUREL AVENUE, KEANSBURG, N.J. 07734
- 6. UTILITIES: WATER SERVICE: SEWER SERVICE:
- TELEPHONE SERVICE: ELECTRIC SERVICE: CABLE TELEVISION: GAS SERVICE:
- KEANSBURG WATER SERVICE BAYSHORE REGIONAL SEWER AUTHORITY
- VERIZON JERSEY CENTRAL POWER AND LIGHT CO. COMCAST CABLEVISION OF MONMOUTH COUNTY, INC. NEW JERSEY NATURAL GAS COMPANY

ZONING SUMMARY		
CURRENT ZONE: CONSERVATION RECREATION Z		
		1, LOT 1 IN BLOCK 1,
	LOTS 4 & 5 II	N BLOCK 1.02
DESCRIPTION	REQUIRED (CR ZONE)	PROPOSED
MINIMUM LOT AREA	40,000 SF (0.918 AC.)	210,788 S.F. (4.839 AC.)
MINIMUM LOT FRONTAGE	100 FT	49.54 FT (LAUREL AVENUE)
		260 FT (CENTRAL AVENUE)
MARINA REQUIREMENTS: ORD. SECTION 22-7.9	REQUIRED (MARINA)	PROPOSED
PRINCIPAL/ACCESSORY STRUCTURE SETBACK		
STREET LINE	50 FT	7.8 FT
OTHER PROPERTY LINE	25 FT	>25 FT
BOAT STORAGE SETBACK		
STREET LINE	35 FT	1 FT
ANY PROPERTY LINE	20 FT	1 FT
LAUNCHING FACILITY SETBACK		
ANY PROPERTY LINE	20 FT	59.8 FT
MIN. UPLAND AREA	15,000 SF	210,788 SF
VARIANCE REQUIRED:		

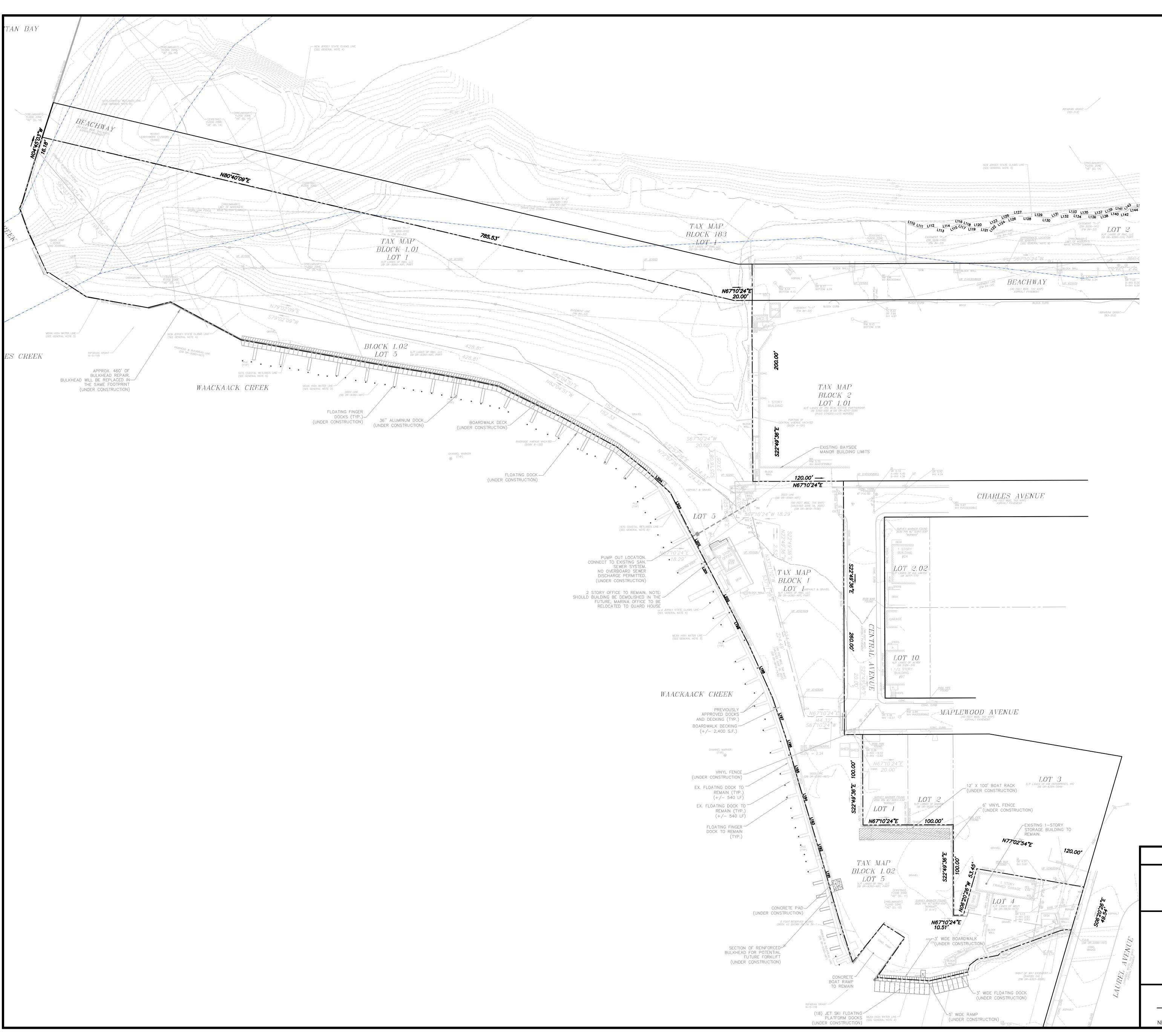
RMATION (RV PAD SITES & GRAVEL AREA):

- 5' X 40' PAD SITE (4): CES: 4 SPACES GER VEHICLE SPACES: 8 SPACES
- 5' X 30' PAD SITE (8): CES: 8 SPACES
- IGER VEHICLE SPACES: 16 SPACES
- IAL PARKING SPACES: 7 SPACES PROVIDED: 48 PARKING SPACES
- (INCLUDING 12 RV SPACES)



JAMES A. KENNEDY, P.E. NEW JERSEY PROFESSIONAL ENGINEER NO. 41275

т
AJOR SITE PLAN
VELOPMENT
1 IN BLOCK 1, K 1.02
SBURG EW JERSEY SED MARCH 2023
TITLE SHEET
TS-1
FILE NAME: Base. DWG
DRAWN BY: KTS/ARC DATE: 11/20/24
DIGITAL SIGNATURE VALID FOR PDF ONLY



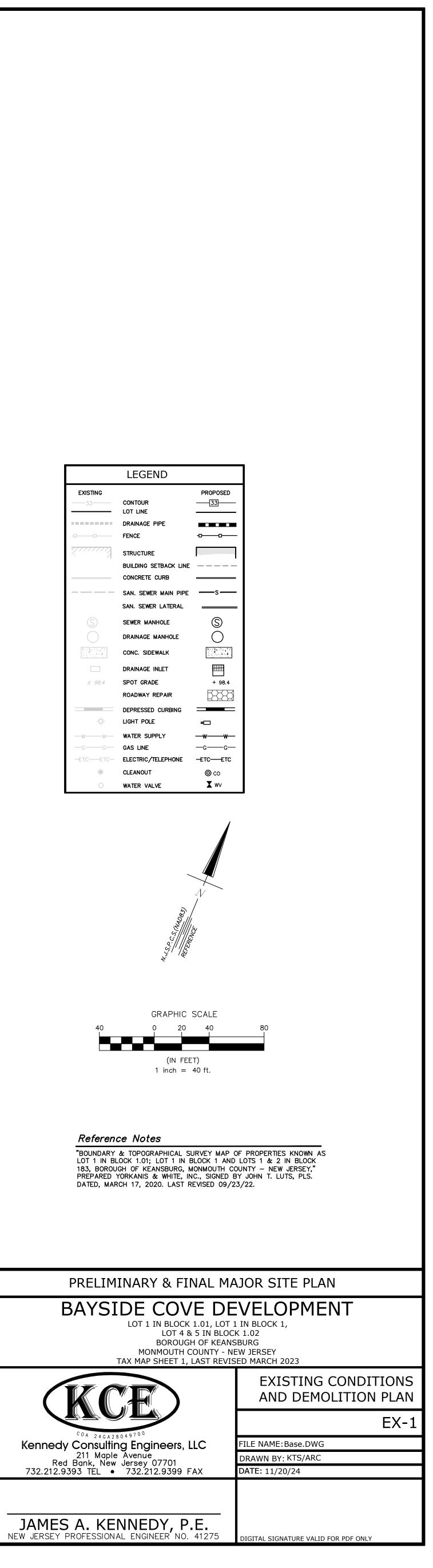


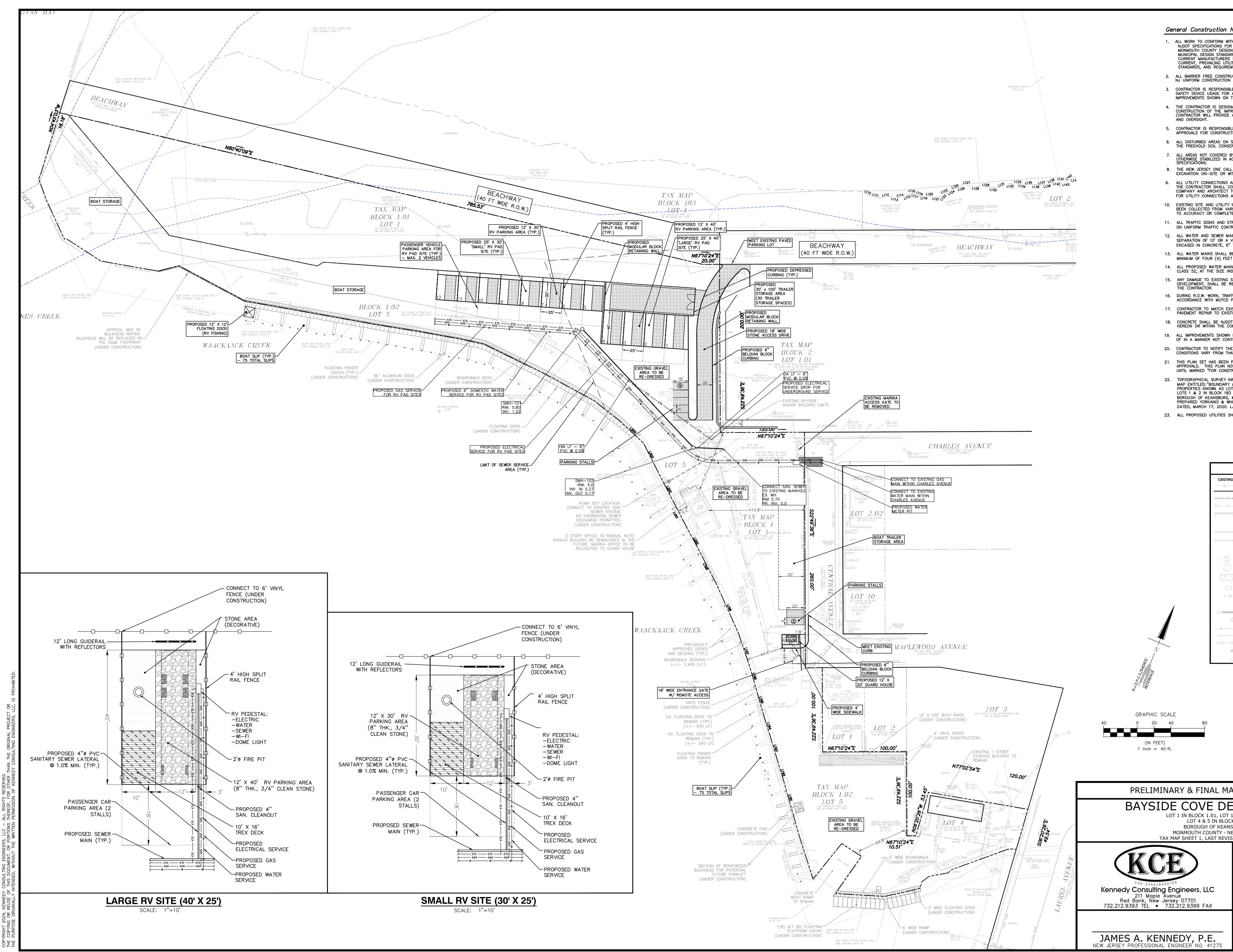
LEGEND EXISTING CONTOUR LOT LINE DRAINAGE PIPE FENCE STRUCTURE BUILDING SETBACK LINE -----SAN. SEWER MAIN PIPE SAN. SEWER LATERAL (\mathbb{S}) SEWER MANHOLE DRAINAGE MANHOLE \bigcirc 4.1.24 CONC. SIDEWALK DRAINAGE INLET SPOT GRADE X 98.4 ROADWAY REPAIR DEPRESSED CURBING LIGHT POLE • GAS LINE CLEANOUT **@** co X wv WATER VALVE

—w——w— —G——G—

GRAPHIC SCALE (IN FEET) 1 inch = 40 ft.

Reference Notes



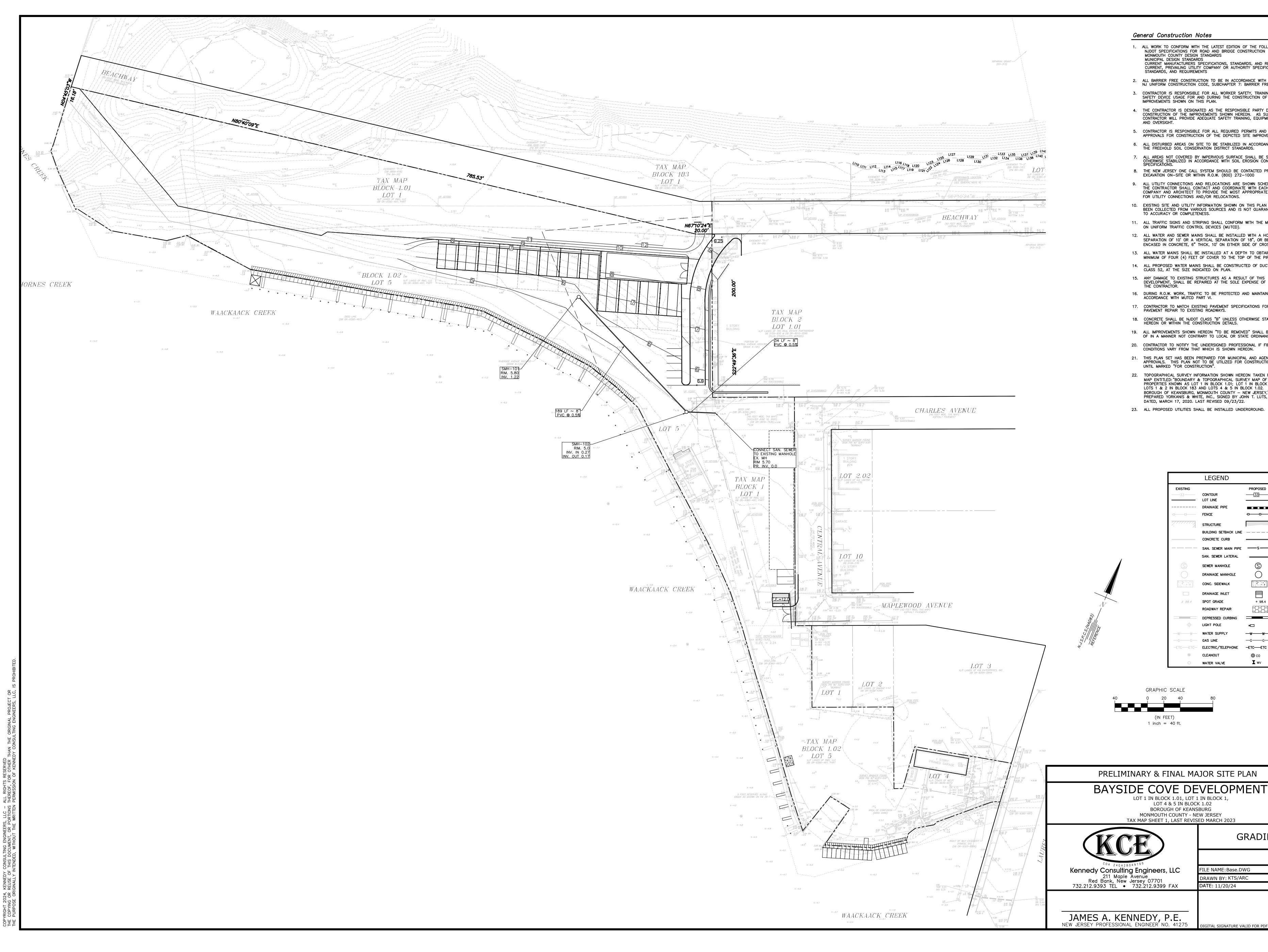


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Notes
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S SPECIFICATIONS, STANDARDS, AND REQUIREMENTS LITY COMPANY OR AUTHORITY SPECIFICATIONS, EMENTS
RUCTION TO BE IN ACCORDANCE WITH THE N CODE, SUBCHAPTER 7: BARRIER FREE SUBCODE.
BLE FOR ALL WORKER SAFETY, TRAINING, AND AND DURING THE CONSTRUCTION OF THE THIS PLAN.
SNATED AS THE RESPONSIBLE PARTY DURING PROVEMENTS SHOWN HEREON. AS SUCH, E ADEQUATE SAFETY TRAINING, EQUIPMENT,
BLE FOR ALL REQUIRED PERMITS AND CTION OF THE DEPICTED SITE IMPROVEMENTS.
SITE TO BE STABILIZED IN ACCORDANCE WITH SERVATION DISTRICT STANDARDS.
BY IMPERVIOUS SURFACE SHALL BE SEEDED OR ACCORDANCE WITH SOIL EROSION CONTROL
LL SYSTEM SHOULD BE CONTACTED PRIOR TO WITHIN R.O.W. (800) 272–1000
AND RELOCATIONS ARE SHOWN SCHEMATICALLY. CONTACT AND COORDINATE WITH EACH UTILITY TO PROVIDE THE MOST APPROPRIATE LOCATION AND/OR RELOCATIONS.
(INFORMATION SHOWN ON THIS PLAN HAS ARIOUS SOURCES AND IS NOT GUARANTEED AS CTENESS.
TRIPING SHALL CONFORM WITH THE MANUAL TROL DEVICES (MUTCD).
AINS SHALL BE INSTALLED WITH A HORIZONTAL VERTICAL SEPARATION OF 18", OR BE " THICK, 10' ON EITHER SIDE OF CROSSINGS.
BE INSTALLED AT A DEPTH TO OBTAIN A ET OF COVER TO THE TOP OF THE PIPE.
NNS SHALL BE CONSTRUCTED OF DUCTILE IRON, NDICATED ON PLAN.
STRUCTURES AS A RESULT OF THIS REPAIRED AT THE SOLE EXPENSE OF
FFIC TO BE PROTECTED AND MAINTAINED IN PART VI.
XISTING PAVEMENT SPECIFICATIONS FOR ALL STING ROADWAYS.
OT CLASS "B" UNLESS OTHERWISE STATED CONSTRUCTION DETAILS.
N HEREON "TO BE REMOVED" SHALL BE DISPOSED NTRARY TO LOCAL OR STATE ORDINANCES.
HE UNDERSIGNED PROFESSIONAL IF FIELD HAT WHICH IS SHOWN HEREON.
PREPARED FOR MUNICIPAL AND AGENCY NOT TO BE UTILIZED FOR CONSTRUCTION TRUCTION".
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SHALL BE INSTALLED UNDERGROUND.
LEGEND
NG PROPOSED
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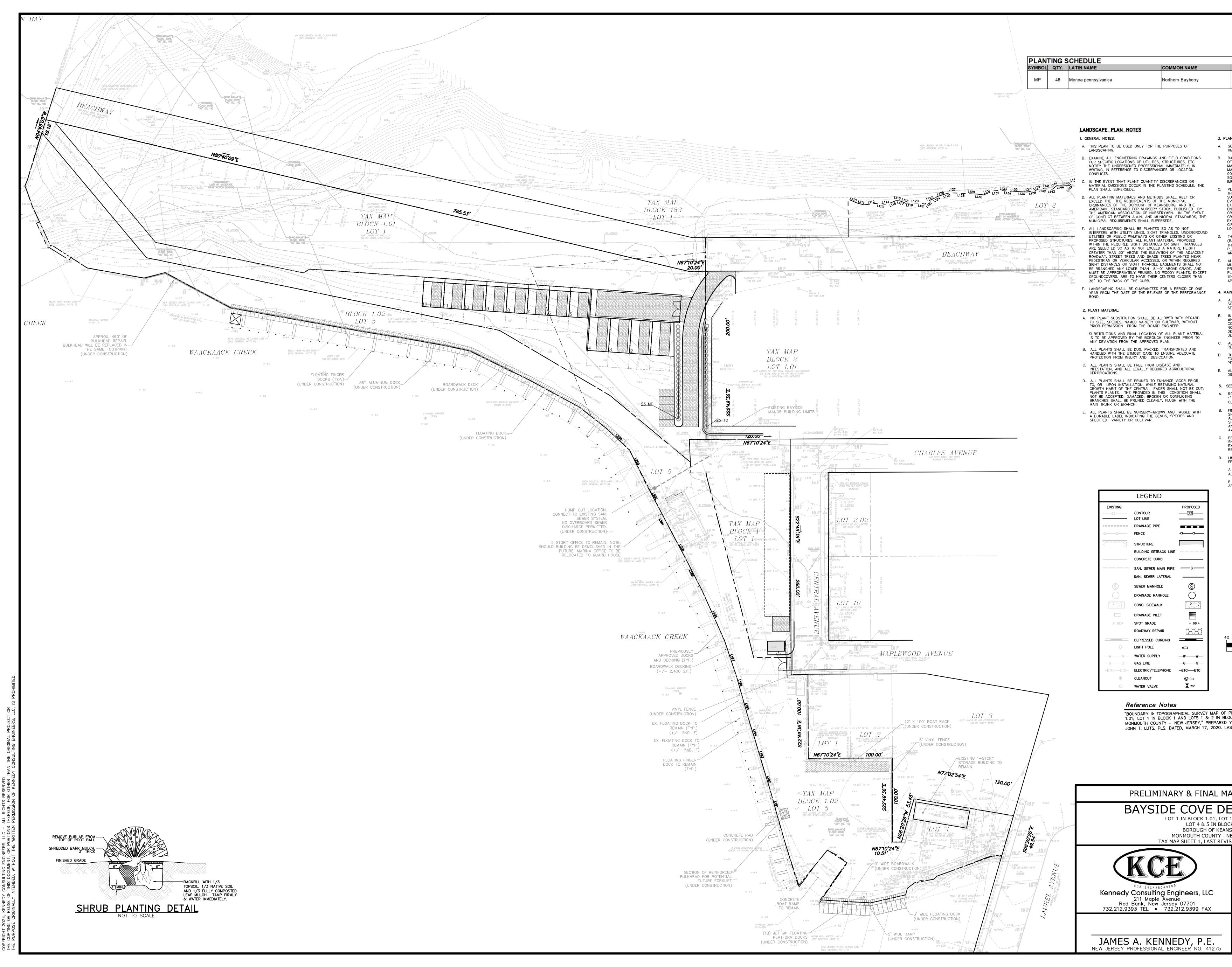
	CONTOUR LOT LINE	33
	DRAINAGE PIPE	
]	FENCE	-oo
~~~~	STRUCTURE	
	BUILDING SETBACK LINE	
	CONCRETE CURB	
	SAN. SEWER MAIN PIPE	<u> </u>
	SAN. SEWER LATERAL	
	SEWER MANHOLE	S
	DRAINAGE MANHOLE	$\bigcirc$
	CONC. SIDEWALK	
	DRAINAGE INLET	
98.4	SPOT GRADE	+ 98.4
	ROADWAY REPAIR	
	DEPRESSED CURBING	
-¢-	LIGHT POLE	<b>م</b>
	WATER SUPPLY	—w—_w_
—-G—-	GAS LINE	—G——G—
—ETC—	ELECTRIC/TELEPHONE	-ETC-ETC
	CLEANOUT	🔘 co
0	WATER VALVE	X wv

AJOR SITE PLAN EVELOPMENT 1 IN BLOCK 1, X 1.02 SBURG EW JERSEY SED MARCH 2023 LAYOUT AND UTILITY PLAN LP-1 FILE NAME: Base. DWG DRAWN BY: KTS/ARC DATE: 11/20/24 DIGITAL SIGNATURE VALID FOR PDF ONLY		
1 IN BLOCK 1, CK 1.02 SBURG IEW JERSEY SED MARCH 2023 LAYOUT AND UTILITY PLAN LP-1 FILE NAME:Base.DWG DRAWN BY: KTS/ARC DATE: 11/20/24	Д	JOR SITE PLAN
UTILITY PLAN LP-1 FILE NAME: Base.DWG DRAWN BY: KTS/ARC DATE: 11/20/24	1 Cł IS	IN BLOCK 1, ( 1.02 BURG W JERSEY
FILE NAME:Base.DWG DRAWN BY: KTS/ARC DATE: 11/20/24		
DRAWN BY: KTS/ARC DATE: 11/20/24		LP-1
DATE: 11/20/24		FILE NAME:Base.DWG
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LEGEND
- CONTOUR
FENCE
STRUCTURE
BUILDING SETBACK LINE — — — — — CONCRETE CURB — — — —
SAN. SEWER MAIN PIPES
SEWER MANHOLE
DRAINAGE MANHOLE
SPOT GRADE     + 98.4       ROADWAY REPAIR
WATER SUPPLY
C- ELECTRIC/TELEPHONE -ETC CLEANOUT © CO
WATER VALVE X WV

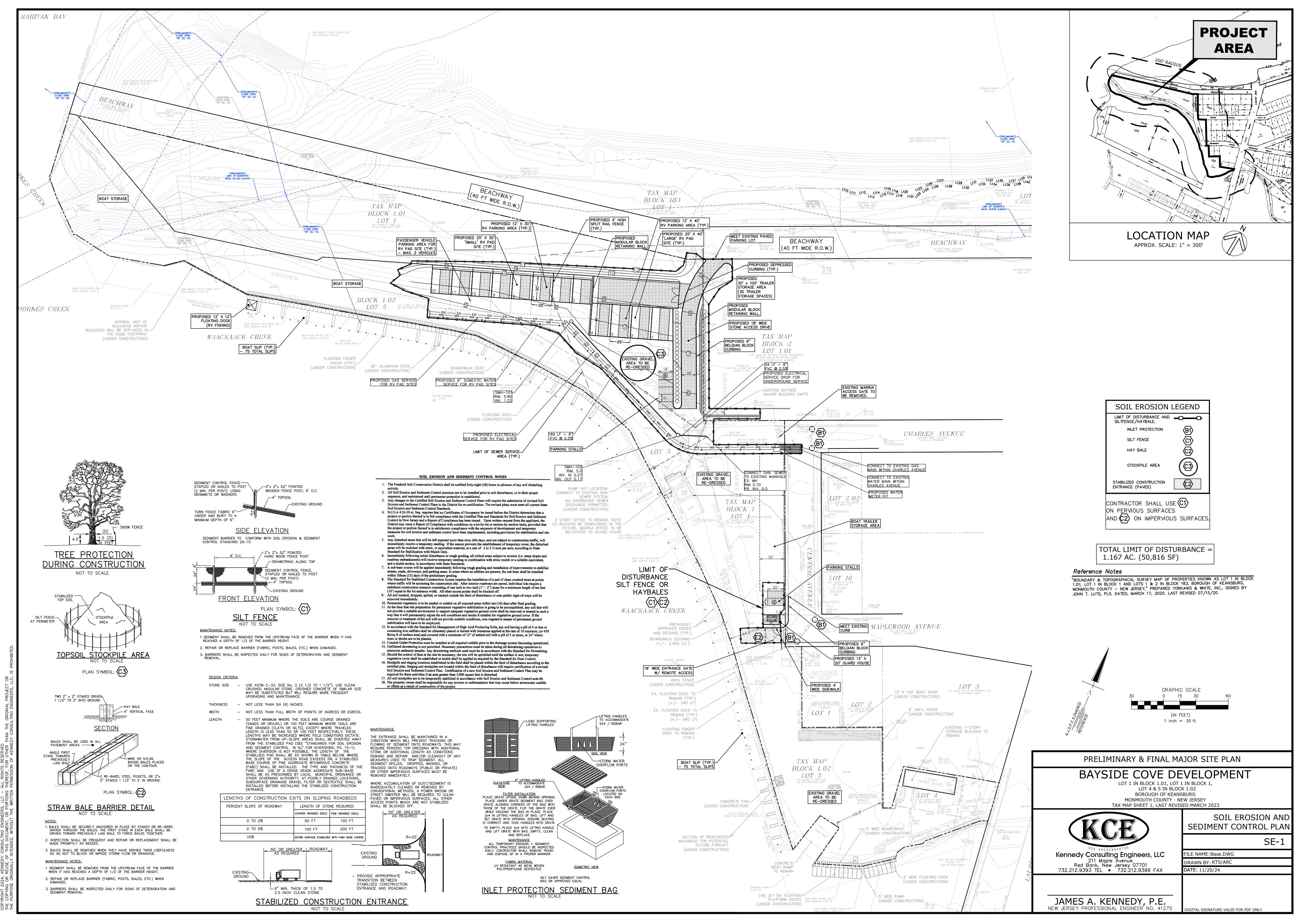
GRADING PLAN GP-1 FILE NAME:Base.DWG DRAWN BY: KTS/ARC DATE: 11/20/24 IGITAL SIGNATURE VALID FOR PDF ONLY



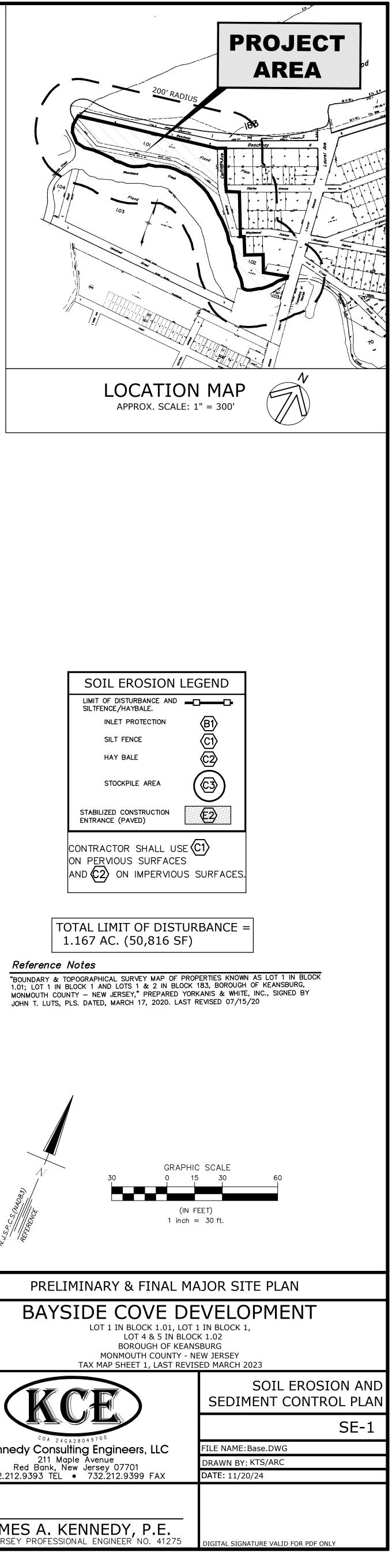
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	HT. ROOT COMMENTS
	18"-24" #3 Gal. Full Plants, 5' O.C.
	ITING: DIL MUST BE FROST-FREE, FRIABLE AND NOT MUDDY AT THE
TIN	IE OF PLANTING.
OF M A	70% TOPSOIL, 20% FULLY COMPOSTED COW OR HORSE NURE AND 10% PEAT MOSS. TOPSOIL SHALL BE SELECT NTERIAL WITH IN EXCESS OF 3% ORGANIC MATERIAL, SECTION
90 SC	9.10, AND MAY BE FROM ON-SITE OR SELECT IMPORTED DURCES. SOIL SHALL CONTAIN NO ACIDIC MARL, NOR ANY PORTED SOURCES.
ΡL	ANTS SHALL BE SET TO ULTIMATE FINISHED GRADE SO THAT EY WILL BE LEFT IN THE RELATIONSHIP TO THE
SU EV	RROUNDING GROUND AS THEY HAD, PRIOR TO BEING DUG. IF IDENCE OF SATURATED SOILS IS ENCOUNTERED DURING CAVATION OF THE PLANTING PITS, UPON DIRECTION BY THE
EN CR	GINEER, PLANTS SHALL BE SET SO THAT THEIR ROOT OWNS ARE APPROXIMATELY THREE INCHES ABOVE THE FINAL ADE, WITH TOPSOIL AND MULCH GENTLY MOUNDED TO AVOID
EX CIF	CESSIVE DRYING AT THE SURFACE. UNDER NO RCUMSTANCES SHALL PLANTINGS AT RELATIVELY DRY CATIONS BE PERFORMED IN A MOUNDED MANNER.
T⊢	IE CORD BINDING THE BALL OF ALL BALLED AND BURLAPPED &B) PLANTS SHALL BE CUT AND REMOVED, AND BURLAP ON
ŤΗ PL	E UPPER 1/3 OF THE ROOT BALL SHALL BE REMOVED. ANTS WITH SYNTHETIC NON- DEGRADABLE ROOT BALL RAPS SHALL NOT BE ACCEPTABLE.
AL	L PROPOSED TREES SHALL BE SET IN BEDS AS SHOWN OR IL CHED TO THE LIMIT OF THEIR PLANTING PITS. ALL
PR PL	COPOSED TO THE LIMIT OF THEIR PLANTING PTIS. ALL COPOSED SHRUBS SHALL BE SET IN CONTINUOUS, MASSED ANTING BEDS, RATHER THAN ISOLATED INDIVIDUALS. ALL EE AND SHRUB BEDS SHALL RECEIVE A 3" THICK
	EE AND SHRUB BEDS SHALL RECEIVE A 3 THICK PLICATION OF HARDWOOD BARK MULCH.
	ITENANCE L PLANTINGS SHALL BE WATERED AS NECESSARY FOR
SC SE	DUND HORTICULTURAL PRACTICE DURING THE FIRST GROWING ASON, TO ENSURE THEIR PROPER ESTABLISHMENT.
WH CC	GENERAL SHRUBS ARE TO BE PLANTED AT INTERVALS HICH WILL ALLOW THEM TO FULLY DEVELOP INTO INTINUOUS MASSES OF THE INDIVIDUAL SPECIES. THEREFORE,
NC DE	O PRUNING TO SHAPE OR SHEARING IS REQUIRED OR SIRABLE. WHERE DEAD OR CONFLICTING BRANCHING VELOPS, IT SHOULD BE PRUNED OUT.
AL	L GUY WIRES, PLANT STAKES AND THE LIKE SHALL BE MOVED ONE YEAR AFTER INSTALLATION.
TH FC	E CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL R A PERIOD OF ONE YEAR FROM THE DATE OF THE
AL	RFORMANCE BOND RELEASE.
	SPOSED OFFSITE.
R	DUGH GRADING: REMOVE FROM THE SURFACE ALL STONES
CL	OR LARGER, AS WELL AS: WIRE, WOOD, ROOTS, CONCRETE, ODS, LUMPS AND ANY OTHER UNSUITABLE MATERIAL. NE GRADING: A MINIMUM OF 3" OF SCREENED TOPSOIL
SH	ALL BE SPREAD BY RAKE OR MECHANICALLY RAKED OVER L AREAS TO RECEIVE EITHER SEED OR SOD. THE SOIL HOULD BE SMOOTH OF RUTS, FREE OF UNSUITABLE OBJECTS
١A	ND GENERALLY GRADED TO PROVIDE FOR POSITIVE DRAINAGE WAY FROM ALL BUILDINGS.
Sł	ED INSPECTION: PRIOR TO SEEDING OR SODDING, THE BED HALL BE INSPECTED FOR NEWLY CREATED RUTS OR (TENSIVE TRAFFIC COMPACTION, AND THE AFFECTED AREAS
RE	PAIRED ACCORDINGLY.
FE	LIME TO BE APPLIED AT THE RATE OF 600 LBS. PER
A	CRES, OR AS PER MANUFACTURER'S RECOMMENDATION.
	PPLIED AT 500 LBS. PER ACRE.
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	Deg (Jacobia)
	LANCE CONTROL
	0. 0. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
0	GRAPHIC SCALE 0 20 40 80
-	(IN FEET) 1 inch = 40 ft.
P	ROPERTIES KNOWN AS LOT 1 IN BLOCK
00. Y	CK 183, BOROUGH OF KEANSBURG, ORKANIS & WHITE, INC., SIGNED BY
AS	T REVISED 07/15/20
Δ	JOR SITE PLAN
E	VELOPMENT
- 1	IN BLOCK 1, < 1.02
NS NE	BURG EW JERSEY
	ED MARCH 2023
	LANDSCAPING PLAN
	LL-1
	FILE NAME: Base. DWG
	FILE NAME:Base.DWG DRAWN BY: KTS/ARC DATE: 11/20/24
	DRAWN BY: KTS/ARC
	DRAWN BY: KTS/ARC

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SOILS, SEED MIX	TURES, AND	DATES FOR P	ERM	ANEN	IT SE	EDINGS	S FOR S	STABILIZATION									
	SOIL AND SITES	SEED MIXTURE 1/	MINII SEEL RATE (POU	DING S 2/	BAS	M SEEDING D ED ON PLAN DNESS ZONE	Г			TEMPORAF	RY V	ÆGETA	TIVE CO			TABILIZAI	ΠΟΝ
	A. EXCESSIVELY DRAINED	REFER TO SEED MIXES TABLE 4-2 & TABLE 4-3	PER ACRE	PER 1,000 z SQ. z FT. z	20NE 56 20NE 6a	ZONE 6b	ZONE 7a ZONE 7b		MONTH	BLISHMENT OF TEM HS WHICH ARE NO ANENT SEEDING W	ot beii	NG GRADE	ATIVE COVER	NITION ON SOILS E ER ACTIVE C	XPOSED FOR ONSTRUCTION	PERIODS OF , OR NOT SCH	TWO TO 6 HEDULED F(
	1. RESIDENTIAL & COMMERCIAL LOTS	TALL FESCUE (TURF) PERENNIAL RYEGRASS WHITE CLOVER	265 20 5	6 3/ 5 0.1	15–5/31	3/1-4/30	2/1-4/30			EMPORARILY STABI ANENT STABILIZAT			AND REDUCE	RPOSE DAMAGE FR	OM WIND AND	WATER EROS	SION UNTIL
RECOMMENDED	2. POND AND CHANNEL BANKS, DIKES, BERMS & DAMS	TALL FESCUE (TURF) PERENNIAL RYEGRASS WHITE CLOVER	265 20 5	6 3/ 5 0.1	15–5/31	3/1-4/30	2/1-4/30		MOVE	IDES TEMPORARY MENT OF STORMEL PROTECTING STRE	D WATI	CTION AG	AINST THE IN F, INCREASE	S INFILTRATION	MIND AND RAI ON AND RETA	N, SLOWS THE INS SOIL AND	E OVER LAI ) NUTRIENT:
SEED MIXTURE FOR INFILTRATION BASIN (SIDES ONLY)		SWITCHGRASS REDTOP	20 1	.45 3/ 0.1	15–5/31	3/1-4/30	2/1-4/30		·	XPOSED SOILS TH			WHERE	APPLICAB	BLE	IRONMENTAL [	DAMAGE.
	B. Well to Moderately Well Drained	REFER TO SEED MIXES TABLE 4-2 & TABLE 4-3	PER ACRE		20NE 5b 20NE 6a	ZONE 6b	ZONE 7a ZONE 7b	● I.	SITE	PREPARATION		1	METHODS	AND MATE	RIALS		
RECOMMENDED SEED MIXTURE	1. RESIDENTIAL & COMMERCIAL LOTS	TALL FESCUE (TURF) PERENNIAL RYEGRASS WHITE CLOVER	265 20 5	6 3/ 5 0.1	15–5/31	3/1-4/30	2/1-4/30			GRADE AS NEEDED PREPARATION, SEE ACCORDANCE WITH NSTALL NEEDED E	EDING, H STAN	MULCH A NDARDS FO	PPLICATION, OR LAND GR	AND MULCH ADING, P. 19	ANCHORING. 9–1.	ALL GRADING	SHOULD E
	2. POND AND CHANNEL BANKS, DIKES, BERMS & DAMS	DEERTONGUE REDTOP WLD RYE (ELYMUS) SWITCHGRASS	20 2 15 25	.45 3/ .05 .35 .60	15–5/31	3/1-4/30	2/1-4/30		S' Tł C. IN	TRUCTURES, CHAN HROUGH 42. MMEDIATELY PRIOF	INEL S	EEDING, T	ION MEASUR	ES, SEDIMEN [®] E SHOULD BE	T BASINS, AN E SCARIFIED 6	D WATERWAYS	S. SEE STA ERE THERE
	3. DRAINAGE DITCH SWALE OR BASIN	DEERTONGUE REDTOP WLD RYE (ELYMUS) SWITCHGRASS	20 2 15 25	.45 3/ .05 .35 .60	15–5/31	3/1-4/30	2/1-4/30	● II.	<u>U</u>	OIL COMPACTION. TILITIES (CABLES.	IRRIGA				<u>IERE THERE IS</u>	<u>S NO DANGER</u>	<u>TO UNDEF</u>
	C. SOMEWHAT POORLY TO POORLY DRAINED	REFER TO SEED MIXES TABLE 4-2 & TABLE 4-3	PER ACRE	PER 1,000 Z SQ. Z FT. Z	ONE 5b ONE 6a	ZONE 6b	ZONE 7a ZONE 7b		E	APPLY GROUND LIN BY RUTGERS CO-O COOPERATIVE EXTE DR 11 POUNDS PEF	PERAT NSION R 1,000	IVE EXTEN: OFFICES. I D SQUARE	SION. SOIL S FERTILIZER S FEET OF 10-	AMPLE MAILE HALL BE APF -20-10 OR E	RS ARE AVAIL PLIED AT THE EQUIVALENT W	ABLE FROM TH RATE OF 500 ITH 50% WATE	HE LOCAL I POUNDS P R INSOLUBI
	1. RESIDENTIAL & COMMERCIAL LOTS	Rough Bluegrass Strong Creeping Red Fescue	90 130	3			8/15-10/30		ד M B. 1	NITROGEN UNLESS TESTING. CALCIUM MATERIALS TO NEU WORK LIME AND FE	CARBO TRALIZ	NATE IS T E SOIL AC ER INTO T	THE EQUIVALE CIDITY AND S THE SOIL AS	INT AND STAI UPPLY CALCII NEARLY AS F	NDARD FOR M UM AND MAGN PRACTICAL TO	EASURING THE NESIUM TO GRA	E ABILITY O ASSES AND 4 INCHES V
	2. POND AND CHANNEL BANKS, DIKES, BERMS & DAMS	Rough Bluegrass Strong Creeping Red Fescue	90 130	2.0 8/ 3	1–10/01	8/15–10/15	8/15–10/30		C. I	DISC, SPRINGTOOTH DPERATION SHOULD SEEDBED IS PREPA INSPECT SEEDBED	) BE C RED. JUST I	IN THE GE	NERAL CONT	OUR. CONTINU	UE TILLAGE UN	NTIL A REASON	NABLY UNIF
	3. DRAINAGE DITCH SWALE OR BASIN	Rough Bluegrass Strong Creeping Red Fescue	90 130	2.0 8/ 3	1–10/01	8/15–10/15	8/15–10/30		D. 5	RETILLED AS ABOVI SOILS HIGH ON SU ACID PRODUCING S	LFIDES		NG A pH OF	4 OR LESS R	≀EFER TO STA	NDARD FOR M	ANAGEMEN
LOCAL SC	DIL CONSERVATION	OR RATES NOT LIST DISTRICT, SOIL CON RVICE MAY BE USE	SERVA	TION	SERVICE	; RECON	IMENDATIONS	THE 🛛 💼 III									
DISTRICT. INOCULAN 2. GRASS SE	LEGUMES (FLATPE IT PRIOR TO PLANT EED MIXTURES CHEC	EA, CROWNVETCH, TR	EFOIL,	LESPE	DEZA) S JREAU	SHOULD B	E MIXED WIT	PER	A.	SELECT SEED FRC	SEEDI	NG RATES	ΟΡΤΙΝ	ABLE 7-2.		OPTIMUM	
THE MIXTU 3. PLANT HA	URE OBTAINED IS T ARDINESS ZONE (SE	HE MIXTURE ORDERE	D.		, WILL	ASSURE			cc	SPECIES DOL SEASON GRASSES	PER	PER 1,000 SQ. FEET	ZONE 5a, 5b	1	ZONE 7a, 7b	SEED DEPTH 2/ (INCHES)	
ZONE 6a	<ul> <li>PORTIONS OF SU</li> <li>PORTIONS OF BE MERCER, HUNTED</li> </ul>	JSSEX, WARREN, PAS ERGEN, PASSAIC, MO RDON, MONMOUTH, O ND CAPE MAY COUNT	SAIC, RRIS, CEAN,	MORRIS ESSEX,	HUDSON	N, UNION,	SOMERSET,	ISEX, SEED MIXTUF	RE	PERENNIAL RYEGRASS	100 86	1.0 2.0	8/1 TO 9/15 3/15 TO 6/1	8/15 TO 10/1 3/1 TO 5/15	2/15 TO 5/1 8/15 TO 10/15 2/15 TO 5/1 8/15 TO 10/15	0.5 1.0	
	- INCLUDES PORTI BURLINGTON, OC	ONS OF CAMDEN, GL EAN AND MONMOUTH ONS OF CAPE MAY,	ouste 1 cou	NTIES.			-	NTIC,		INTER BARLEY	96 100	1.0	8/1 TO 9/15 3/15 TO 6/1	8/15 TO 10/1 3/15 TO 6/1	8/15 TO 10/15 2/15 TO 5/1	1.0 0.5	
1. MATERIALS A. TOPSOIL SHOULD BE FRIA SUBSTANCE OR ADVERSE	ABLE ¹ , LOAMY ² , FREE CHEMICAL OR PHYS	SICAL CONDITION THA	IONABI T MAY	E WEED BE HA	RMFUL 1	TO PLANT	GROWTH. S			INTER CEREAL RYE	112		, ,		8/15 TO 10/15 8/1 TO 12/15	1.0	
SALTS SHOULD NOT BE E MILLIMHOS MAY DESICCAT ORGANIC MATTER CONTAG B. TOPSOIL SUBSTITUTE IS A	TE SEEDLINGS AND / CT OF 2.75 PERCEN A SOIL MATERIAL WH	ADVERSELY IMPACT G T. ORGANIC MATTER HICH MAY HAVE BEEN	ROWTH CONT AMEN	I.) IMPO ENT MA IDED WI	RTED TO Y BE RA TH SAND	DPSOIL SH AISED BY D, SILT, CI	ALL HAVE A ADDITIVES. _AY, ORGANIO	ER,	P	EARL MILLET	20 30	0.5		5/15 TO 8/15 5/15 TO 8/15		1.0 1.0	
FERTILIZER OR LIME AND INSUFFICIENT TOPSOIL FO REQUIREMENTS OF TOPSO SILT, CLAY, ORGANIC MA	R ESTABLISHING PEI DIL NOTED ABOVE. TTER, SOLUBLE SAL	RMANENT VEGETATION SOIL TESTS SHALL BI TS AND PH LEVEL.	I. ALI E PERI	TOPSC ORMED	IL SUBS	STITUTE M	ATERIALS SHA	ET THE		1. SEEDING RATE PURE LINE SEE REQUIRED FOR	D (PLS	S) AS DET	FERMINED BY				
² LOAMY MEANS TEXTURE GRO LOAN, SILT LOAN, CLAY LOAM FRAGMENTS (PARTICLES LESS SOCIETY OF AMERICA.	OUPS CONSISTING OF , SANDY CLAY LOAN	F COARSE LOAMY SAN A AND SILTY CLAY LO	NDS, S AM TE	ANDY L	OAN, FII AND H	AVING LES	SS THAN 35%	SE		2. MAY BE PLANT CAN BE IRRIGA	'ED TH TED.	ROUGHOU'	T SUMMER IF	F SOIL MOIST	URE IS ADEQ ¹	UATE OR SEEL	DED AREA
2. STRIPPING AND STOCKPILIN A. FIELD EXPLORATION SHOU STRIPPING.	JLD BE MADE TO DE				OR QUA	LITY OF S	URFACE SOIL	FIES			ORTION ORTION OUNTI	IS OF SUS NS OF SUS ES.	SSEX AND W SSEX, WARRE	EN, PASSAIC,	MORRIS, SON		
<ul> <li>B. STRIPPING SHALL BE CON</li> <li>C. WHERE FEASIBLE, LIME M</li> <li>PH TO APPROXIMATELY 6</li> <li>D. A 4–6 INCH STRIPPING E</li> </ul>	AY BE APPLIED BEF 3.5.	ORE STRIPPING AT A	RATE	DETERN				SOIL		G ZONE 7a — IN	AIDDLE: SLOUST NCLUDE	SEX, MERC ER, ATLAN ES PORTIO	CER, HUNTER NTIC, CUMBE DNS OF CAME	DON, MONMO RLAND AND DEN, GLOUSTI	OUTH, OCEAN, CAPE MAY CO	BÚRLINGTÓN, DUNTIES. UMBERLAND, (	, CAMDEN,
E. STOCKPILES OF TOPSOIL ENVIRONMENTAL DAMAGE. F. STOCKPILES SHOULD BE FOR PERMANENT (PG. 4-	VEGETATED IN ACCO	DRDANCE WITH STAND	ARDS	PREVIOL	JSLY DE	SCRIBED H	ierein; see			ZONE 76 - IN 4. TWICE THE DEF				E MAY, ATLAI	NTIC, OCEAN	AND MONMOU'	TH COUNTII
BE ALLOWED TO GROW O 3. SITE PREPARATION A. GRADE AT THE ONSET OF DISTURBED SOIL TO EROS	N STOCKPILES. F THE OPTIMAL SEEI	DING PERIOD SO AS	fo Min	IMIZE T	HE DURA	ATION AND	AREA OF E		:	CONVENTIONAL SE SEEDER, DRILL, <u>OF</u> SEED SHALL BE IN DRAGGING. DEPTH	<u>R</u> CUL ⁻ NCORP	TIPACKER ORATED IN	SEEDER. EXONITO THE SOL	CEPT FOR DR L, TO A DEP	RILLED, HYDRC YTH OF 1/4 TO	ÒSEEDED OR Ó O 1/2 INCH, E	CULTIPACKE BY RAKING
BISTORIED SEED MIXTURE. B. GRADE AS NEEDED AND SEEDING, MULCH APPLICA C. AS GUIDANCE FOR IDEAL	. TIME IS OF THE E FEASIBLE TO PERMIT ATION AND ANCHORIE	ESSENCE. T THE USE OF CONVE NG, AND MAINTENANC	NTION E. SEI	al equi E the s	PMENT F	FOR SEEDI D FOR LA	BED PREPARA ND GRADING,		C.	HYDROSEEDING IS TANK, WITH AN A SPRAYING THE MIX	A BR GITATIO X ONTO	OADCAST ON SYSTEM O THE PRI	SEEDING ME M AND HYDR EPARED SEE	THOD USUAL AULIC PUMP DBED. <u>MULC</u>	LY INVOLVING FOR MIXING SHALL NOT	A TRUCK OR SEED, WATER BE INCLUDED	R TRAILER M AND FERTI IN THE TA
SHOULD BE APPLIED TO PRACTICAL TO A DEPTH D. PRIOR TO TOPSOILING, TH	BRING SOIL TO A PI OF 4 INCHES. HE SUBSOIL SHALL E	H OR APPROXIMATELY BE IN COMPLIANCE W	′ 6.5 ТН ТН	AND INC E STANI	ORPORA	TED INTO	THE SOIL AS			SEED. SHORT FIBE SECTION IV MULCH FERTILIZER ARE A CONTACT OCCURS TOO STEEP FOR C	HING). PPLIED REDU	HYDROSEE TO THE CING SEEE	EDING IS NO SURFACE AN D GERMINATI	T A PREFERR ND NOT INCO ON AND GRO	RED SEEDING I RPORATED IN WTH. HYDROS	METHOD BECA TO THE SOIL. EEDING MAY E	AUSE SEED POOR SEE BE USED F
E. EMPLOY NEEDED EROSION STABILIZATION MEASURES 4. APPLYING TOPSOIL A. TOPSOIL SHOULD BE HAN	, SEDIMENTATION B	ASINS, AND WATERWA	YS. SE	E STAN	DARDS	11 THROU	GH 42.	LESS		AFTER SEEDING, F CONTACT, RESTOR WHEN PERFORMED SITE WILL BE MAX	E CAF	HE CONTO	AND IMPRO	/E SEEDING E	EMERGENCE. T	THIS IS THE PI	REFERRED
A. TOPSOIL SHOULD BE HAN THAN FIELD CAPACITY (S B. A UNIFORM APPLICATION ALTERNATIVE DEPTHS MA APPROPRIATE SUCH AS ( OP CONTAINING JPON SUI	TO AN AVERAGE DE Y BE CONSIDERED V ON GOLF COURSE, S	WHERE SPECIAL REGU PORTS FIELDS, LAND	LATOR	Y AND/ APPING,	OR INDU ETC S	ISTRY DES	IGN STANDA	E MUL	CHING	<b>IG</b> IS REQUIRED ON A OTE FASTER AND							
OR MORE, IN ACCORDANC	CE WITH THE STAND. IREMENT IN SECTION SIBLE TO ENSURE TH	ARD FOR MANAGEMEN I 7 OF THE STANDAR HAT PERMANENT VEGE	IT OF D FOR ETATIV	HIGH AG PERMA E COVEF	CID PRO NENT VE R BECOM	DUCING SO EGETATIVE MES ESTAE	DIL (PG. 1-1) STABILIZATIO BLISHED ON /	5.0 EROS	SION SI	HALL BE DEEMED HING STANDARDS I	COMPI	LIANCE WI	TH THIS MUL	CHING REQU	IREMENT.		
C. PURSUANT TO THE REQU CONTRACTOR IS RESPONS OF THE SOILS TO BE STA ADDITIONAL WORK TO BE SUPPLEMENTAL SEEDING, COMPOST) AS A TOP DRI OFFERED BY RUTGERS CO	PERFORMED BY TH RE-APPLICATION O ESSING. SUCH AD	E CONTRACTOR TO IN F LIME AND FERTILIZE DITIONAL MEASURES \$	iclude :RS an Shall	: SOME ND/OR 1 BE BAS	OR ALL THE ADD SED ON	OF THE F DITION OF SOIL TEST	OLLOWING: ORGANIC MA S SUCH AS			MATERIAL		DU	JST CON		ECIFICATIO	INS APPLY GALLON	NS/ACRE
TEST SOIL SAMPLES FOR					2.12011			•		ANIONIC ASPHAL LATEX EMULSION RESIN IN WATER POLYACRYLAMIDE POLYACRYLAMIDE			AD AS AN ADDIT	1 RDING TO MANUFA	COARSE SPRAY FINE SPRAY FINE SPRAY ACTURER'S INSTRUC BASINS TO FLOCC DIMENT BASIN STA	1200 235 300 CTIONS. MAY ALSO CULATE AND PRECIP NDARD P 26-1	
PROPOSED CON	STRUCTION S	EQUENCE								GE - TO ROUGHEN	I SURF	ACE AND	BRING CLODS	s to the sui	COARSE SPRAY	1200 S A TEMPORAF	RY EMERGEI
1. FIRST WEEK OF CO SOIL EROSION AND 2. TEMPORARY STABIL	SEDIMENT CONTR	OL. S INITIALLY DISTUR	BED.	STABILI	ZATION	TO BE			MEASU SITE. EXAMI	ure which should Chisel—type plo ⁰ Ples of equipmen Ikling — site is s	D BE U WS SP. NT WHI	JSED BEFO ACED ABO CH MAY PI	DRE SOIL BLC DUT 12 INCHE RODUCE THE	WING STARTS S APART AND DESIRED EFF	S. BEGIN PLOW D SPRING-TOC	ING ON WINDW	WARD SIDE
ACCOMPLISHED BY EQUIVALENT MATER STANDARDS WILL T	USE OF TEMPORA IAL AT A RATE O AKE APPROXIMATE	ARY SEEDING AND/ F TWO TONS PER A ELY TWO DAYS.	OR SI ACRE,	RAW M ACCOF	ULCHIN RDING 1	G OR		•	BARRI SIMILA CALCI	IERS – SOLID BOA AR MATERIAL CAN IUM CHLORIDE – S	RD FEI BE US	NCES, SNO ED TO CO BE IN THE	OW FENCES, E INTROL AIR C FORM OF LO	BURLAP FENC SURRENTS ANI	D SOIL BLOWIN RANULES OR F	NG. FLAKES FINE E	ENOUGH TO
<ul> <li>3. SITE DEMOLITION &amp;</li> <li>4. ROUGH GRADING W</li> <li>5. INSTALLATION AND</li> <li>UTUTX CONNECTION</li> </ul>	ILL TAKE APPROX	IMATELY ONE WEEK	•			THER			FEED POLLU WASH	THROUGH COMMON JTION OR PLANT D ING INTO STREAMS E - COVER SURFA	NLY US AMAGE OR A	ED SPREA I. IF USED CCUMULAT	DERS AT A I ON STEEPER FION AROUND	RATE THAT W R SLOPES, TH PLANTS.	VILL KEEP SUR IEN USE OTHE	FACE MOIST B	BUT NOT CA
	NS WILL TAKE API ING, CURBING, AN	PROXIMATELY ONE D SIDEWALK CONST	WEEK														
7. BUILDING CONSTRUC	CTION WILL TAKE	APPROXIMATELY ON		EK.													
8. CONTINUOUS MAINT         9. INSTALLATION OF L         10. REMOVAL OF SOIL         VEGETATIVE GROWT	EROSION AND SEE	DIMENT CONTROL DI															
TOTAL DURATION OF P			NTHS														

BE DONE IN TABILIZATION ANDARDS 11

RE HAS BEEN ERGROUND

AS OFFERED RUTGERS PER ACRE BY SOIL OF LIMING ID LEGUMES. WITH A IIFORM

A MUST BE

ENT OF HIGH

DROF KED SEEDINGS, IG OR

MOUNTED TILIZER AND <u>TANK WITH</u> ALSO SEE D AND EED TO SOIL FOR AREAS STUMPS, ETC.

O-SOIL ) METHOD. RVATION ON

TABLISHED AND ONTROL SOIL

# STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

DEFINITION ESTABLISHMENT OF PERMANENT VEGETATIVE COVER ON EXPOSED SOILS WHERE PERENNIAL VEGETATION IS NEEDED FOR LONG TERM PROTECTION.

<u>PURPOSE</u> TO PERMANENTLY STABILIZE THE SOIL, ENSURING CONSERVATION OF SOIL AND WATER, AND TO ENHANCE THE ENVIRONMENT.

WATER QUALITY ENHANCEMENT SLOWS THE OVER-LAND MOVEMENT OF STORMWATER RUNOFF, INCREASES INFILTRATION AND RETAINS SOIL AND NUTRIENTS ON SITE, PROTECTING STREAMS OR OTHER STORMWATER CONVEYANCES.

WHERE APPLICABLE

# METHODS AND MATERIALS

- I. SITE PREPARATION
  - DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING.
  - FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING. C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITE. TOPSOIL
  - D. INSTALL NEEDED EROSION CONTROL PRACTICES AND FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
- II. SEEDBED PREPARATION

TOPSOILING.

- 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 OR 11 POUNDS PER 1,000 SQUARE FEET OF 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 SOIL 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. C. 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 PREPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID-PRODUCING SOILS FOR SPECIFIC REQUIREMENTS.
- III. SEEDING
  - 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.
    - 80% VEGETATIVE COVERAGE WITH THE SPECIFIED SEED MIXTURE FOR THE SEEDED AREA AND MOWED
    - 2. WARM SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT HIGH FOR WARM-SEASON GRASSES SHALL BE THE AMOUNT OF PURE LIVE SEED (PLS) AS DETERMINED BY GERMINATION TESTING RESULTS.
    - OF PLANTING RATES TO COMPENSATE FOR THE AMOUNT OF PLS IS NOT REQUIRED FOR COOL SEASON GRASSES.
  - 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 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 CONSERVATION ON SITE WILL BE MAXIMIZED.
- 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. SHORT-FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING (ALSO SEE SECTION IV 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 REDUCED SEED GERMINATION AND GROWTH.
- IV. MULCHING

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 SHALL 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 USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF

- WEED SEED.
- APPLICATION. SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT AT LEAST 85% (95% FOR TEMPORARY STABILIZATION) 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.
- WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.
- 1. 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 APPEARANCE B. USE ONE OF THE FOLLOWING:
- (1) ORGANIC AND VEGETABLE BASED BINDERS NATURALLY OCCURRING, POWDER BASED, 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 BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.
- 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.

ON EXPOSED SOILS THAT HAVE A POTENTIAL FOR CAUSING OFF-SITE ENVIRONMENTAL DAMAGE.

A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE. ALL GRADING SHOULD BE B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOILING APPLICATION, THE SURFACE SHOULD SHALL BE EVALUATED

SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR

A. SELECT A MIXTURE FROM TABLE 4-3 OR USE MIXTURE RECOMMENDED BY RUTGERS COOPERATIVE

1. SEEDING RATES SPECIFIED ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP 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

TEMPERATURES, GENERALLY 85°F AND ABOVE. SEE TABLE 4-3, MIXTURES 1 TO 7. PLANTING RATES

3. COOL-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT TEMPERATURES BELOW 85'F. MANY GRASSES BECOME ACTIVE AT 65'F. SEE TABLE 4-3, MIXTURES 8-20. ADJUSTMENT

B. CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL)

ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR

VALLEYS, AND AT CRESTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN

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 IN A PHYTOTOXIC EFFECT OR IMPEDE GROWTH OF TURF GRASS. USE AT RATES AND

DILUTED AND, FOLLOWING APPLICATION OF MULCH, DRYING AND CURING, SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER. BINDER SHALL BE APPLIED AT RATES RECOMMENDED NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS.

C. PELLETIZED MULCH - COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHIC CO-POLYMERS, TACKIFIERS, FERTILIZERS AND COLORING AGENTS. THE DRY PELLETS, WHEN APPL AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN ACCORDA MANUFACTURERS RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREA OF 60-75 LBS/1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDED AREAS WH FREE MULCH IS DESIRED OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PR DESIRABLE.

APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDI

• V. IRRIGATION (where feasible) IF SOIL MOISTURE IS DEFICIENT SUPPLY NEW SEEDINGS WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES.

• VI. TOPDRESSING SINCE SOIL ORGANIC MATTER CONTENT AND SLOW RELEASE NITROGEN FERTILIZER (WATER INSOLUBLE) IS SECTION II-A - SEEDBED PREPARATION IN THIS STANDARD, NO FOLLOW-UP OF TOPDRESSING IS MANDA MAY BE MADE WHERE GROSS NITROGEN DEFICIENCY EXISTS TO THE EXTENT THAT TURF FAILURE MAY DE INSTANCE, TOPDRESS WITH 10-10-10 OR EQUIVALENT AT 300 POUNDS PER ACRE OR 7 POUNDS PER 1,0 EVERY 3 TO 5 WEEKS UNTIL THE GROSS NITROGEN DEFICIENCY IN THE TURF IS AMELIORATED ...

• VII. ESTABLISHING PERMANENT VEGETATIVE STABILIZATION THE QUALITY OF PERMANENT VEGETATION RESTS WITH THE CONTRACTOR. THE TIMING OF SEEDING, PREPA APPLYING NUTRIENTS, MULCH AND OTHER MANAGEMENT ARE ESSENTIAL. THE SEED APPLICATION RATES I REQUIRED WHEN A <u>REPORT OF COMPLIANCE</u> IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMA UP TO 50% REDUCTION IN APPLICATION RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISH REQUESTING A REPORT OF COMPLIANCE FROM THE DISTRICT. THESE RATES APPLY TO ALL METHODS OF ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVER (OF THE SEEDED SPECIES) AND M NOTE THIS DESIGNATION OF MOWED ONCE DOES NOT GUARANTEE THE PERMANENCY OF THE TURF SHOULD MAINTENANCE FACTORS BE NEGLECTED OR OTHERWISE MISMANAGED.

## STANDARD FOR STABILIZATION WITH MULCH ONLY

**DEFINITION** 

STABILIZING EXPOSED SOILS WITH NON-VEGETATIVE MATERIALS EXPOSED FOR PERIODS LONGER THAN <u>PURPOSE</u>

TO PROTECT EXPOSED SOL SURFACES FROM EROSION DAMAGE AND TO REDUCE OFFSITE ENVIRONMENT

WATER QUALITY ENHANCEMENT PROVIDES TEMPORARY MECHANICAL PROTECTION AGAINST WIND OR RAINFALL INDUCED SOIL EROSION VEGETATIVE COVER MAY BE ESTABLISHED.

WHERE APPLICABLE

THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO EROSION, WHERE THE SEASON AND OTHER CO NOT BE SUITABLE FOR GROWING AN EROSION-RESISTANT COVER OR WHERE STABILIZATION IS NEEDED PERIOD UNTIL MORE SUITABLE PROTECTION CAN BE APPLIED.

METHODS AND MATERIALS • I. SITE PREPARATION A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR PREPARATION, SEEDING, MULCH APPLICATION AND MULCH ANCHORING. ALL GRADING SHOULD

- ACCORDANCE WITH STANDARDS FOR LAND GRADING. B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE
- II. PROTECTIVE MATERIALS

THROUGH 42.

- A. UNROTTED SMALL-GRAIN STRAW, AT 2.0 TO 2.5 TONS PER ACRE, IS SPREAD UNIFORMLY A PER 1,000 SQUARE FEET AND ANCHORED WITH A MULCH ANCHORING TOOL, LIQUID MULCH B TIE DOWN. OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVA APPROVAL RATES ABOVE HAVE BEEN MET WHEN MULCH COVERS THE GROUND COMPLETELY INSPECTION, I.E. THE SOIL CANNOT BE SEEN BELOW THE MULCH.
- B. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USED UNDER SUITABLE CONDITIONS AND RECOMMENDED BY THE MANUFACTURER. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE (OR ACCO
- MANUFACTURER'S REQUIREMENTS) MAY BE APPLIED BY A HYDROSEEDER. D. MULCH NETTING, SUCH AS PAPER JUTE, EXCELSIOR, COTTON, OR PLASTIC, MAY BE USED.
- WOODCHIPS APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 2" MAY BE USED. WOODCHIPS AREAS WHERE FLOWING WATER COULD WAS THEM INTO AN INLET AND PLUG IT.
- F. GRAVEL, CRUSHED STONE, OR SLAG AT THE RATE OF 9 CUBIC YARDS PER 1,000 SQUARE UNIFORMLY TO A MINIMUM DEPTH OF 3 INCHES MAY BE USED. SIZE 2 OR 3 (ASTM C-33)

• III. MULCH ANCHORING

- MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT OF HAY OR STRA MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, D SIZE OF THE AREA AND STEEPNESS OF SLOPES.
- A. PEG AND TWINE DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRIS-CROSS AND A SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
- B. MULCH NETTINGS STAPLE PAPER, COTTON, OR PLASTIC NETTINGS OVER MULCH. USE A DI IN AREAS TO BE MOWED. NETTING IS USUALLY AVAILABLE IN ROLLS 4 FEET WIDE AND UP
- C. CRIMPER MULCH ANCHORING COULTER TOOL A TRACTOR-DRAWN IMPLEMENT ESPECIALLY AND ANCHOR MULCH INTO THE SOIL SURFACE. THIS PRACTICE AFFORDS MAXIMUM EROSION USED IS LIMITED TO THOSE SLOPES UPON WHICH THE TRACTOR CAN OPERATE SAFELY. SOIL SHOULD BE ABOUT 3 TO 4 INCHES. ON SLOPING LAND, THE OPERATION SHOULD BE ON THE D. LIQUID MULCH-BINDERS

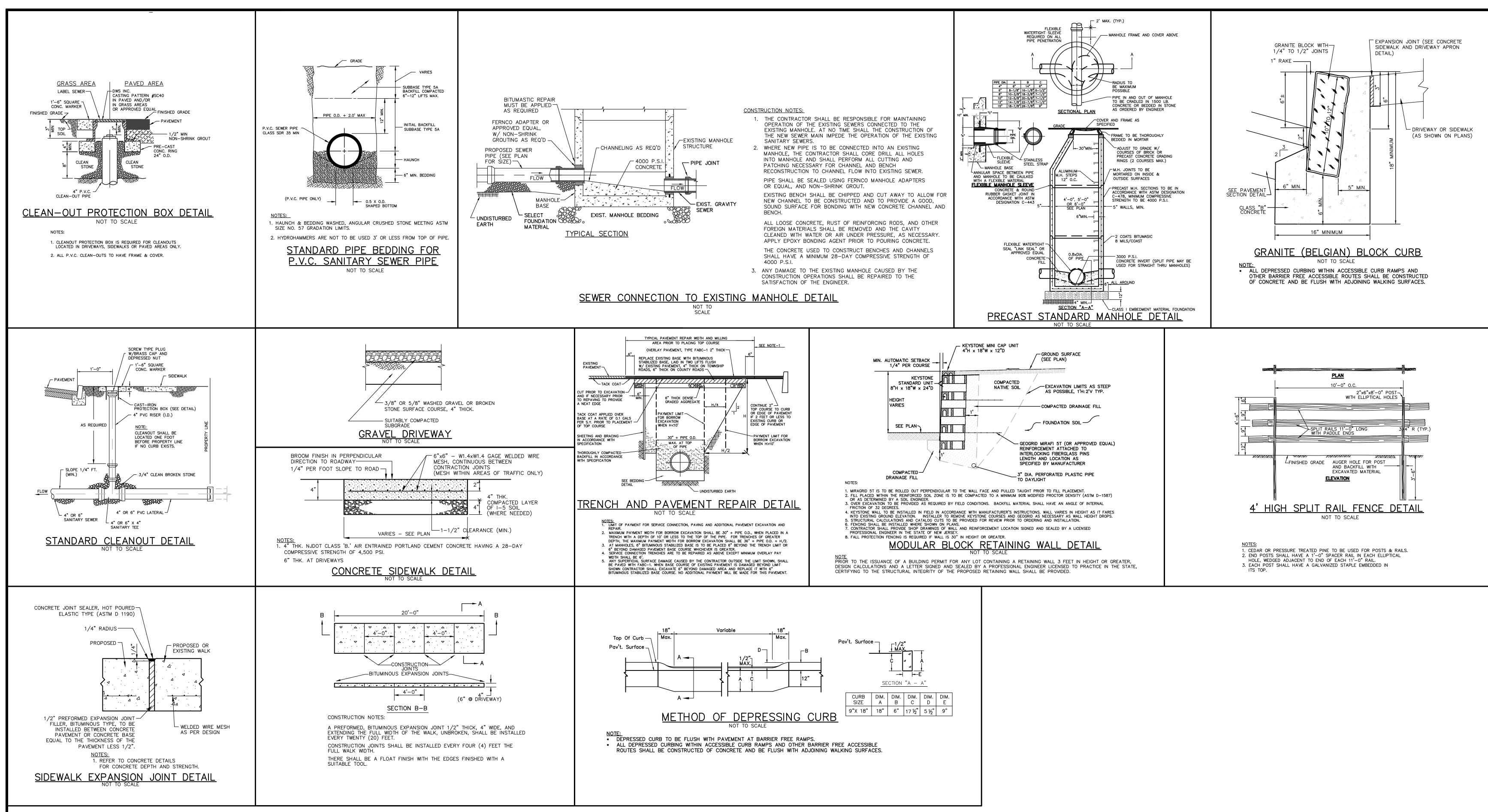
1. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH, IN VAL CRESTS OF BANKS. REMAINDER OF AREA SHOULD BE UNIFORM IN APPEARANCE. 2. USE ONE OF THE FOLLOWING:

- A. ORGANIC AND VEGETABLE BASED BINDERS NATURALLY OCCURRING, POWDER BASED MATERIALS THAT MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MU SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANE NETWORKS OF INSOLUBLE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYT OR IMPEDE GROWTH OF TURFGRASS. VEGETABLE BASED GELS SHALL BE APPLIED AT WEATHER CONDITIONS RECOMMENDED BY THE MANUFACTURER.
- B. SYNTHETIC BINDERS HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER W FOLLOWING APPLICATION TO MULCH, DRYING AND CURING SHALL NO LONGER BE SOLU DISPERSIBLE IN WATER. IT SHALL BE APPLIED AT RATES AND WEATHER CONDITIONS THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.

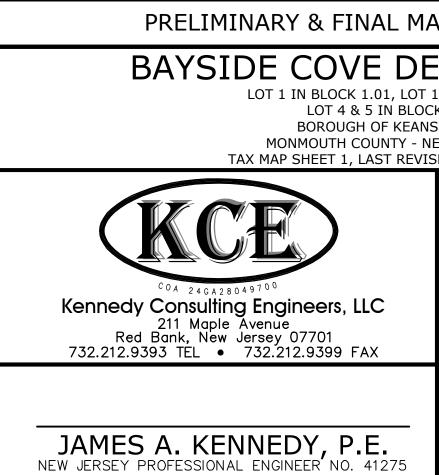


JAMES A. KENNEDY, P.E. NEW JERSEY PROFESSIONAL ENGINEER NO. 41275

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SOIL EROSION CONTROL SBURG SED MARCH 2023 SOIL EROSION CONTROL SPECIFICATIONS SEC-1 FILE NAME: Base.DWG DRAWN BY: KTS/ARC DATE: 11/20/24	UBLE OR
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CK 1.02 SBURG IEW JERSEY SED MARCH 2023 SOIL EROSION CONTROL SPECIFICATIONS SEC-1 FILE NAME: Base.DWG DRAWN BY: KTS/ARC DATE: 11/20/24	
SOIL EROSION CONTROL SPECIFICATIONS SEC-1 FILE NAME: Base. DWG DRAWN BY: KTS/ARC DATE: 11/20/24	CK 1.02 SBURG
SEC-1 FILE NAME: Base. DWG DRAWN BY: KTS/ARC DATE: 11/20/24	SOIL EROSION CONTROL
FILE NAME:Base.DWG DRAWN BY: KTS/ARC DATE: 11/20/24	
DATE: 11/20/24	FILE NAME:Base.DWG
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JOR SITE PLAN
IN BLOCK 1, K 1.02 BURG EW JERSEY
EW JERSEY DED MARCH 2023 CONSTRUCTION
DETAILS
CD-1
FILE NAME: Base. DWG DRAWN BY: KTS/ARC DATE: 11(20(24)
DRAWN BY: KTS/ARC