MODULAR BUILDING & SITE IMPROVEMENT PLANS
DEPARTMENT OF PUBLIC WORKS FACILITY IMPROVEMENTS

TAX MAP SHEET 13.07

1363 COUNTY RD 539, BLOCK 124, LOT 10.01

TOWNSHIP OF LITTLE EGG HARBOR, OCEAN COUNTY, NEW JERSEY

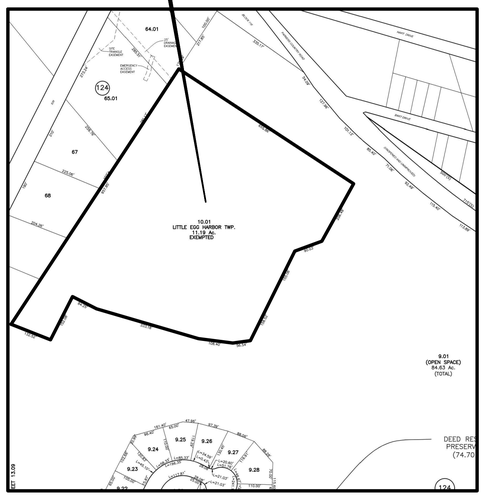
PROJECT SITE (11.19 ACRES)
1363 COUNTY RD 539,
LITTLE EGG HARBOR TOWNSHIP, NJ



Vicinity Map

SOURCE: NEAR MAPS,
IMAGE CAPTURE DATE 03/26/2026
SCALE: 1"=100FT

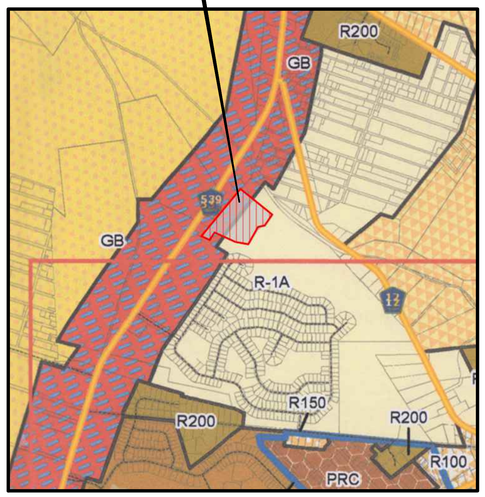
PROJECT SITE (11.19 ACRES)
1363 COUNTY RD 539,
LITTLE EGG HARBOR TOWNSHIP, NJ



TAX MAP

SOURCE: TOWNSHIP OF LITTLE EGG HARBOR TAX MAP,
SHEET 13.07, REVISED 12/31/21
SCALE: 1"=100FT

PROJECT SITE
LITTLE EGG HARBOR TOWNSHIP, NJ
ZONE: GB & R-1A
GENERAL BUSINESS & RESIDENTIAL



Zoning Map

SOURCE: TOWNSHIP OF LITTLE EGG HARBOR ZONING MAP, DATED 09/12/2024
SCALE: 1"=2,000 FT

DRAWING INDEX

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2	DISTRIBUTION OF QUANTITIES
3	LEGEND AND GENERAL NOTES
4	EXISTING CONDITIONS AND DEMOLITION PLAN
5	OVERALL SITE PLAN
6	SITE PLAN
7	GRADING AND DRAINAGE PLAN
8	UTILITY PLAN
9	SOIL EROSION AND SEDIMENT CONTROL PLAN
10	SOIL EROSION RESTORATION PLAN
11	SOIL EROSION AND SEDIMENT CONTROL DETAILS
12	SOIL EROSION AND SEDIMENT CONTROL DETAILS
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14	CONSTRUCTION DETAILS
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16	REFLECTED CEILING PLAN AND INTERIOR ELEVATIONS
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18	FOUNDATION PLAN
19	MECHANICAL SYMBOLS & ABBREVIATIONS
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36	PLUMBING NEW WORK FLOOR PLAN SANITARY & VENT
37	PLUMBING NEW WORK PLAN DOMESTIC WATER
1 OF 2	SEPTIC DRAWINGS – OVERALL SITE
2 OF 2	SEPTIC DRAWINGS – DETAILS SHEET
1 OF 1	FOUNDATION PLAN & SECTION

LITTLE EGG HARBOR TOWNSHIP GOVERNING BODY

MAYOR:	KENNETH LANEY JR.
DEPUTY MAYOR:	DAN MAXWELL
COMMITEEMAN:	JOHN KEHM JR. BLAISE SCIBETTA
COMMITEEWOMAN:	SUZANNE M. CARRARA
TOWNSHIP CLERK:	KELLY LETTERA
INTERIM TOWNSHIP ADMINISTRATOR:	KELLY LETTERA
CONTACT INFORMATION:	665 RADIO ROAD LITTLE EGG HARBOR, NJ 08087 PHONE: (609) 296-7241 WEB: WWW.LEHT.COM

OWNER/APPLICANT

LITTLE EGG HARBOR TOWNSHIP
665 RADIO ROAD
LITTLE EGG HARBOR TOWNSHIP, NJ 08087
PHONE: (609) 296-7241

UTILITY OWNERS

ELECTRIC
ATLANTIC CITY ELECTRIC
P.O. BOX 231
WILLMINGTON, DE 19899
(800) 833-7467 (EMERGENCY)
(800) 642-3780 (CUSTOMER SERVICE)

GAS
NEW JERSEY NATURAL GAS
775 VASSAR AVENUE
LAKEWOOD, NJ 08701
(800) 427-5325 (GAS LEAK)
(800) 221-0051 (CUSTOMER SERVICE)

CABLE
COMCAST
751 BRICK BOULEVARD
BRICK, NJ 08723
(732) 920-2288 (CUSTOMER SERVICE)

TELEPHONE
AT&T
175 WEST MAIN STREET
FREEHOLD, NJ 07728
(732) 431-1275

TELEPHONE
VERIZON
5100 BELMAR BOULEVARD
FARMINGDALE, NJ 07727
(800) 427-9977

WATER & SEWER
LITTLE EGG HARBOR
MUNICIPAL UTILITIES AUTHORITY
823 RADIO ROAD
LITTLE EGG HARBOR, NJ 08087
(609) 296-1168 (MAIN OFFICE)
(609) 296-7606 (SERVICE)

LOCATION OF UTILITIES SHOWN ON THESE PLANS ARE NOT WARRANTED AS TO EXACTNESS. CONTRACTOR SHALL DETERMINE EXACT LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND OTHER APPLICABLE LAWS.

PRIOR TO DIGGING CALL 1-800-272-1000

811 Know what's **below.** **Call** before you dig.

NO.	DATE	REVISIONS	BY	CHKD

JASON WORTH, P.E.
TOWNSHIP ENGINEER

STATE OF NEW JERSEY
JASON A. WORTH
24GE04928700
LICENSED PROFESSIONAL ENGINEER

LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE No. GGE49287

LITTLE EGG HARBOR TOWNSHIP
DEPARTMENT OF PUBLIC WORKS FACILITY IMPROVEMENTS
LITTLE EGG HARBOR TOWNSHIP, OCEAN COUNTY, NEW JERSEY

COVER SHEET

T AND M
YOUR GOALS. OUR MISSION.
1144 HOOPER AVENUE, SUITE 202
TOMS RIVER, NJ 08753
TEL 732-473-3400
FAX 732-473-3408
www.tandmassociates.com
NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION 24GA27987500
OFFICES LOCATED IN:
CALIFORNIA, INDIANA, KENTUCKY, MASSACHUSETTS, MICHIGAN, NEW JERSEY, OHIO AND PENNSYLVANIA

DESIGNED BY	RW
CHECKED BY	JW
DRAWN BY	DEL
DATE	10/7/2026
SCALE	AS NOTED
PROJ. NO.	LEHT01952
DRAWING	CVR
SHEET	1 OF 37

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PROJECT INFORMATION:
FILE PATH: G:\Projects\LEHT\01952\Plans\
FILE NAME: LEHT01952_SHEET01_-COVER.dwg
LAST SAVED BY: dlamphere
LAST SAVE DATE: 07 Oct 2026, 1:08PM

DISTRIBUTION OF QUANTITIES - BASE BID

ITEM NO.	ITEM DESCRIPTION	UNIT	ITEM DESIGNATION	QUANTITY	IF & WHERE	TOTAL QUANTITY
1	CLEARING SITE / MOBILIZATION	LS	(P)	1	----	1
2	FULL DEPTH ASPHALT PAVEMENT REPAIR	SF	(M)	362	38	400
3	PROPOSED 4" THICK CONCRETE SIDEWALK	SF	(M)	448	52	500
4	PROPOSED FLUSH CONCRETE CURB	LF	(M)	76	24	100
5	PROPOSED 6" STRIPED LOADING AREA	SF	(M)	1,285	15	1,300
6	RESTORED SEEDED LANDSCAPE AREA	SF	(M)	13,358	42	13400
7	PROPOSED STANDARD DUTY FULL DEPTH ASPHALT PAVEMENT (COMBINED)	SF	(M)	5,537	63	5600
8	PROPOSED ADA SIGN ON BOLLARD	LS	(P)	1	----	1
9	PROPOSED BOLLARDS	EA	(M)	8	----	8
10	PROPOSED SEPTIC SYSTEM COMPLETE	LS	(P)	1	----	1
11	PROPOSED 25' WIDE, 8' HIGH BLACK VINYL CHAIN LINK SLIDING ACCESS GATE WITH 2" PRIVACY SLATS	LS	(P)	1	----	1
12	PROPOSED 5' WIDE, 8' HIGH BLACK VINYL CHAIN LINK ACCESS GATE WITH 2" PRIVACY SLATS	LS	(P)	1	----	1
13	PROPOSED IMPOUND LOT 8' HIGH, BLACK VINYL CHAIN LINK SECURITY FENCE WITH 2" PRIVACY SLATS	LF	(M)	410	----	410
14	PROPOSED ELECTRIC WORK INCLUDING SERVICES	LS	(M)	1	----	1
15	PROPOSED DOMESTIC WATER WELL SYSTEM COMPLETE	LS	(P)	1	----	1
16	SILT FENCE (COMBINED)	LF	(M)	805	5	810
17	TREE PROTECTION FENCE	LF	(M)	653	47	700
18	TEMPORARY STOCKPILE	LS	(P)	1	----	1
19	PROPOSED 6" THICK CONCRETE PAD BELOW ENTIRE RAMP AND STEPS	SF	(P)	116	84	200
20	PROPSED GUARD SHACK IMPROVEMENTS	LS	(P)	1	----	1
21	PROPOSED MODULAR BUILDING COMPLETE - FABRICATED, DELIVERED, INSTALLED ON FOUNDATION SYSTEM	LS	(P)	1	----	1

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PROJECT INFORMATION:
FILE PATH: G:\Projects\LEHT\01952\Plans\
FILE NAME: LEHT01952 - SHEET02 - DOQ.dwg
LAST SAVED: DATE AND TIME: 10/7/2026, 8:59AM
LAST SAVE BY: dlamphere

NO.	DATE	REVISIONS	BY	CHKD

JASON WORTH, P.E.
TOWNSHIP ENGINEER

STATE OF NEW JERSEY · JASON A. WORTH · 24GE04928700 · LICENSED PROFESSIONAL ENGINEER

LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE No. GE49287

LITTLE EGG HARBOR TOWNSHIP
DEPARTMENT OF PUBLIC WORKS FACILITY IMPROVEMENTS
LITTLE EGG HARBOR TOWNSHIP, OCEAN COUNTY, NEW JERSEY
DISTRIBUTION OF QUANTITIES

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DESIGNED BY	RW
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DATE	10/7/2026
SCALE	AS NOTED
PROJ. NO.	LEHT01952
DRAWING	DOQ
SHEET	2 OF 37

STANDARD LEGEND

N.J. PLANE COORDINATE SYSTEM

EXISTING	PROPOSED	
(Show Size and Type) CATV CATV	(Show Size and Type) CATV CATV	CABLE TELEVISION
TC TC TC	TC TC	TELECOMMUNICATION CONDUIT
W W W	W W W	WATER MAIN
G G G	G G G	GAS MAIN
T T T	T T T	TELEPHONE CONDUIT
E E E	E E E	ELECTRIC CONDUIT
Existing Junction Box	PROPOSED JUNCTION BOX	ELECTRIC CONDUIT, HIGHWAY
Flow		EXISTING STORM DRAINS
Exist Inv. El. S (Over 30" Draw To Size) S	RECONSTRUCT Flow (Size and Type) RESET HEAD	EXISTING SANITARY SEWERS
PROPOSED S INV. EL.	S S S S S FLOW	PROPOSED SANITARY SEWERS AND STORM DRAINS (ONLY IN SPECIAL CASES DRAW TO SIZE)
BITUMINOUS	BITUMINOUS	EDGE OF PAVEMENT (BITUMINOUS, CONCRETE)
		SHOULDERS
TOE (F) TOP (C)	TOE (F) TOP (C)	SLOPES
12 13	24 25	CENTERLINE, BASELINE AND TRAVERSE LINE LABEL LINE: ℄, ℞,
R.O.W.	R.O.W.	RIGHT OF WAY LINES ACCESS PERMITTED
R.O.W.	R.O.W.	NO ACCESS
		TOWNSHIP, CITY, COUNTY LINE
		PROPERTY LINES
		WETLANDS LINE
		CURBS
		FENCES
		RESET BEAM GUIDE RAIL
		BEAM GUIDE RAIL
		RAILROAD
Flow Existing Channels	Flow PROPOSED DITCH (Size)	REPRESENTS BOTTOM OF DITCH OR CREEK
		INLETS (TYPE AS INDICATED)

- Exist
- Existing Monument
- Sign
- Exist. Light
- WV–Water Gate Valve
- Pole No. & Type (Guy,Light,Etc.)
- GV–Gas Gate Valve
- Hydrant
- Traffic Light
- Traffic Control Box
- Exist R.C. End Section Or C.M Headwall
- Bush or Brush
- Deciduous Trees (size, kind)

Wooded Area

- PROPOSED
- RESET EXISTING CASTING
- NEW INLET CASTING (TYPE AS SPECIFIED)
- RECONSTRUCT
- INLETS CONVERTED TO MANHOLE
- NEW MONUMENT
- PROPOSED R.C. END SECT. OR C.M. HEADWALL
- PROPOSED HEADWALL & APRON
- PROPOSED HEADWALL
- TREE TO BE REMOVED (T.B.R.)
- PROPOSED UTILITY POLE
- BORING TEST LOCATION

PROFILE LINE — LEVEL LINE — +% / −%

S SIGN

HATCH PATTERNS

- BUILDING FOOTPRINT
- NEW ASPHALT PAVEMENT
- CONCRETE
- ASPHALT PAVEMENT TO BE MILLED AND REMOVED

ABBREVIATIONS:

A.D.	ALGEBRAIC DIFFERENCE
ACC	ASPHALT CEMENT CONCRETE
ACI	AMERICAN CONCRETE INSTITUTE
ADA	AMERICANS WITH DISABILITIES ACT
AGG.	AGGREGATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX.	APPROXIMATE, APPROXIMATELY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVG.	AVERAGE
B	BOTTOM
BCT	BREAKAWAY CABLE TERMINAL
BIT	BITUMINOUS
℞	BASELINE
BM	BENCHMARK
BO	BOTTOM OF
BW, BOW	BOTTOM OF WALL
C	CUT
COC	CENTER OF CURVE
C.R.	COUNTY ROUTE
CRV. CTR.	CURVE CENTER
CC, C TO C	CENTER–TO–CENTER
CCA	CHROMATED COPPER ARSENATE
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CIP	CAST IN PLACE, CAST IRON PIPE
CJ	CONTROL JOINT
℄	CENTERLINE
CLF	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
COE	U.S. ARMY CORPS OF ENGINEERS
CONC	CONCRETE
COV.	COVER
CP	CONTROL POINT
CR	COUNTY ROUTE
CRSE	COURSE
CY	CUBIC YARDS
DC	DEPRESSED CURB
DEP, NJDEP	NEW JERSEY DEPARTMENT OF
DGA	DENSE GRADED AGGREGATE
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DOT, NJDOT	NEW JERSEY DEPARTMENT OF TRANSPORTATION
DWS	DETECTABLE WARNING SURFACE
DWY	DRIVEWAY
E	EAST
E.C.	EDGE OF CONCRETE
EB	EASTBOUND
EC	EDGE OF CONCRETE, EPOXY COATED
EF	EACH FACE
EL, ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EX, EXIST	EXISTING
EXP JT	EXPANSION JOINT
F	FILL
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
FERT	FERTILIZER, FERTILIZING
FF	FRONT FACE
FNMC	FLEXIBLE NONMETALLIC CONDUIT
FO	FIBER OPTIC
FTG	FOOTING
G	GAS
GIS	GEOGRAPHIC INFORMATION SYSTEM
GPS	GLOBAL POSITIONING SYSTEM
GR, GRT	GRATE
GRD	GRADE, GRADED
GUT	GUTTER
GV	GAS VALVE
H.P.	HIGH POINT
HC, HCR	HANDICAP RAMP
HMA	HOT MIX ASPHALT
HORIZ	HORIZONTAL
HP	HIGH POINT
IN	INCHES
INV	INVERT
JCP&L	JERSEY CENTRAL POWER & LIGHT
K	RATE OF VERTICAL CURVATURE
L.O.M.	LIMIT OF MILLING
L.O.P.	LIMIT OF PAVING
LP.	LOW POINT
LC	LOCKING COVER
LF	LINEAR FEET
LOD	LIMIT OF DISTURBANCE
LOM	LIMIT OF MILLING
LOP	LIMIT OF PAVING
LP	LOW POINT
LS	LUMP SUM
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MHHW	MEAN HIGH HIGH WATER
MHW	MEAN HIGH WATER
MIN	MINIMUM
MLLW	MEAN LOW LOW WATER
MLW	MEAN LOW WATER
MP	MIDPOINT
MPH	MILES PER HOUR
MPT	MAINTANANCE AND PROTECTION OF TRAFFIC
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
N	NORTH, NUMBER
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NB	NORTHBOUND
NE	NORTHEAST
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NTS	NOT TO SCALE
NW	NORTHWEST
OC	ON CENTER
℄	PROPERTY LINE
P.G.L.	PROFILE GRADE LINE
PAVT, PVMT	PAVEMENT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE,
PE	PROFESSIONAL ENGINEER
PED	PEDESTRIAN
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PK	MASONRY NAIL
PL	PROPERTY LINE
POL	POINT ON LINE
PP	PETROLEUM PIPELINE
PROP	PROPOSED
PROWAG	PROPOSED ACCESSIBILITY GUIDELINES
PSE&G	PUBLIC SERVICE ELECTRIC AND GAS
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS
R.C.E.S.	REINFORCED CONCRETE END SECTION
R.O.W.	RIGHT OF WAY
R.R.S.P.	RIP RAP STONE PROTECTION
RCCP	REINFORCED CONCRETE CULVERT PIPE
RCES	REINFORCED CONCRETE END SECTION
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REIN.	REINFORCED
RF	REAR FACE
RMC	RIGID METALLIC CONDUIT
RNMC	RIGID NONMETALLIC CONDUIT
ROW	RIGHT OF WAY
RPM	RAISED PAVEMENT MARKER
RT	RIGHT
S	SOUTH
S.C.F.	SEDIMENT CONTROL FENCE
S.O.D.	SUBBASE OUTLET DRAIN
SB	SOUTHBOUND
SCD	SOIL CONSERVATION DISTRICT
SE	SOUTHEAST
SF	SQUARE FEET
SHLDR	SHOULDER
SHT	SHEET
SHWT	SEASONAL HIGH WATER TABLE
SI&A	STRUCTURE INVENTORY AND APPRAISAL
SOD	SUBBASE OUTLET DRAIN
SQ	SQUARE
STA	STATION
STAB	STABILIZED
SURF	SURFACE
SW	SOUTHWEST
SW, SDWK	SIDEWALK
SY	SQUARE YARDS
T	TOP, TELEPHONE
T.B.R.	TO BE REMOVED
T.G.	TOP OF GRATE
TAN	TANGENT
TBA	TO BE ABANDONED
TBR	TO BE REMOVED
TC	TOP OF CURB
TEMP	TEMPORARY
TG	TOP OF GRATE
THK	THICK
TO	TOP OF
TS	TOPSOIL
TW, TOW	TOP OF WALL
TYP	TYPICAL
U.E.H.	USE EXISTING HEAD
UN	UNIT
UP	UTILITY POLE
VAR	VARIES, VARIABLE
VC	VERTICAL CURVE
VERT	VERTICAL
VMS	VARIABLE MESSAGE SIGN
W	WATER, WEST
WB	WESTBOUND
WP	WORKING POINT
WS	WATER SURFACE
WSE, WSEL	WATER SURFACE ELEVATION
WV	WATER VALVE
WWM	WELDED WIRE MESH

GENERAL NOTES:

1. THIS PLAN HAS BEEN PREPARED BASED ON REFERENCES INCLUDING:

   TOPOGRAPHIC SURVEY
   PREPARED BY DMC ASSOCIATES, INC.
   6 CAREY AVENUE,
   BUTLER, NJ 07405
   DATED 06/26/2026

   SEPTIC DRAWINGS
   PREPARED BY HOUSER ENGINEERING, LLC
   1141 GREENWOOD LAKE TPKE.,
   RINGWOOD, NJ 07456

2. APPLICANT/OWNER: TOWNSHIP OF LITTLE EGG HARBOR
   665 RADIO ROAD,
   LITTLE EGG HARBOR TOWNSHIP, NJ 08087

3. PARCEL DATA: 1363 COUNTY ROAD 539,
   BLOCK 124, LOT 10.01
   TOWNSHIP OF LITTLE EGG HARBOR
   OCEAN COUNTY, NJ 08087

4. THESE GENERAL NOTES APPLY TO ALL SHEETS IN THIS SET OF PLANS.
5. THE CONTRACTOR IS STRONGLY ENCOURAGED TO VISIT THE SITE PRIOR TO PREPARING A BID.
6. NO CONSTRUCTION ACTIVITY IS TO TAKE PLACE OUTSIDE THE LIMIT OF DISTURBANCE UNLESS DIRECTED BY THE ENGINEER.
7. 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, DRIVING OF PILES, OR ANY OTHER SUBSURFACE DISTURBANCE. WHERE EXISTING UTILITIES ARE TO BE CROSSED BY PROPOSED CONSTRUCTION, TEST PITS SHALL BE DUG BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO ASCERTAIN EXISTING INVERTS, MATERIALS AND SIZES. TEST PIT INFORMATION SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION OR STRUCTURE FABRICATION TO PERMIT ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS.
8. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN CHANGES. NO EXTRA COMPENSATION SHALL BE MADE TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
9. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION FOR SITE IMPROVEMENTS SHOWN HEREON SHALL BE IN ACCORDANCE WITH:
   A. NJDOT "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.
   D. NATIONAL FIRE PROTECTION ASSOCIATION AND AMERICAN WATER WORKS ASSOCIATION STANDARDS, AS CURRENTLY AMENDED.
10. THE CONTRACTOR SHALL NOTIFY THE UNDERSIGNED PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY FROM THOSE PRESENTED HEREON.
11. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS OF THE GOVERNING AUTHORITIES OR AGENCIES.
12. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS.
13. ALL PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
14. ALL ON–SITE UTILITY CABLES AND WIRING MUST BE INSTALLED UNDERGROUND.
15. ALL WATER MAINS AND SANITARY SEWER MAINS ARE TO BE HORIZONTALLY SEPARATED BY A MINIMUM OF 10' OR VERTICALLY BY A MINIMUM OF 18". IF SUCH VERTICAL SEPARATION IS NOT POSSIBLE, THE SANITARY SEWER MAIN SHALL BE OF WATER TIGHT CONSTRUCTION (DIP) WITH MECHANICAL RESTRAINED JOINTS FOR A MINIMUM OF 10' FROM THE WATER MAIN CROSSING. USE TRANSITION COUPLING, POWERSEAL MODEL #3501–8AAB OR EQUIVALENT AT DIP/PVC JOINTS.
16. THE SUITABILITY OF EXCAVATED MATERIAL FOR USE AS BACKFILL SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER OF RECORD.
17. THE CONTRACTOR SHALL VERIFY THE LOCATION, GRADE, AND INVERT ELEVATION OF ALL EXISTING UTILITY STRUCTURES.
18. THE CONTRACTOR SHALL COORDINATE UTILITY INSTALLATION WITH THE RESPECTIVE UTILITY COMPANY IF APPLICABLE. THE UTILITY COMPANY SHALL VERIFY INSTALLATION LOCATION(S).
19. THE CONTRACTOR SHALL RAISE/ADJUST ALL UTILITY VALVE COVERS, FRAMES, GRATES, ETC., WITHIN THE CONSTRUCTION AREA TO THE PROPOSED GRADE. REFER TO DEMOLITION AND UTILITY REMOVAL PLANS FOR DETAILS ON UTILITIES TO BE ABANDONED AND UTILITIES TO REMAIN.
20. CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.
21. ALL DISTURBED AREAS NOT RECEIVING IMPERVIOUS SURFACE OR LANDSCAPING SHALL BE RESTORED IN ACCORDANCE WITH THE SOIL EROSION AND SEDIMENT CONTROL SEEDING SPECIFICATIONS.
22. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATION SET FORTH BY THE DESIGN ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR OVER EXCAVATION AND REMOVAL OF ALL SOFT, YIELDING, OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS APPROVED BY THE ENGINEER.
23. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% MODIFIED PROCTOR MAXIMUM DENSITY. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE OR 3% BELOW OPTIMUM.
24. ELECTRIC, TELEPHONE, CATV AND ALL OTHER WIRE SERVED UTILITY EXTENSIONS AND SERVICES SHALL BE INSTALLED UNDERGROUND WITH STANDARDS ESTABLISHED BY THE SERVICING UTILITY COMPANY.
25. ALL AREAS WHERE NATURAL VEGETATION AND/OR TREES (WITHIN THE LIMIT OF DISTURBANCE) ARE TO REMAIN SHALL BE PROTECTED BY THE ERECTION OF FENCING, AND NO DISTURBANCE SHALL OCCUR PRIOR TO INSPECTION BY THE OWNER OR OWNER'S REPRESENTATIVE AND THE ISSUANCE OF WRITTEN AUTHORIZATION TO PROCEED WITH THE CONSTRUCTION. THESE PROTECTIVE MEASURES SHALL NOT BE ALTERED OR REMOVED WITHOUT THE APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE.
26. ALL PROPOSED CONSTRUCTION IS TO CONFORM TO THE LATEST EDITION OF THE NEW JERSEY UNIFORM CONSTRUCTION CODE.
27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTENCE AND LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF WORK THRU THE USE OF RECORD DOCUMENTS PROVIDED BY THE OWNER AND THE ENGINEER, AND FIELD SURVEY AND/OR TEST PIT EXCAVATIONS IF SAME ARE DETERMINED TO BE NECESSARY. CONTRACTOR ALSO RESPONSIBLE FOR CALLING 1–800–MARKOUT FOR UTILITY MARKOUT PRIOR TO CONSTRUCTION.
28. TWO SURVEY BENCHMARKS SHALL BE ESTABLISHED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
29. AS SHOWN HEREIN, THE PROPOSED IMPROVEMENTS ARE LOCATED OUTSIDE STATE OPEN WATERS.
30. REMOVAL OF OFF–SITE DEMOLITION MATERIALS SHALL BE IN CONFORMANCE WITH STATE AND LOCAL REGULATIONS.
31. ALL SITE TRAFFIC CONTROL PROVISIONS (INCLUDING THOSE TEMPORARY MEASURES WITHIN THE NJDOT AND MUNICIPAL RIGHT–OF–WAYS) WILL BE IMPLEMENTED PURSUANT TO THE PROVISIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 (OR CURRENT) EDITION.
32. FOLLOWING EXCAVATION ACTIVITIES OF EXISTING SOILS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR AERATING, DRYING, AND REMIXING THE SOILS PRIOR TO FINAL GRADING AND PLACEMENT. THE CONTRACTOR SHALL PROVIDE PROOF OF VERIFICATION TO THE ENGINEER REGARDING THE SUITABILITY OF SOILS PRIOR TO PLACEMENT.
33. THIS SET OF PLANS HAS BEEN PREPARED FOR PURPOSES OF BIDDING. THIS SET OF 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".
34. FOR SECURITY PURPOSES, EXISTING IMPOUND LOT SHALL REMAIN INTACT UNTIL NEW IMPOUND LOT IS CONSTRUCTED, FUNCTIONAL AND OPERATIONAL.
35. THERE SHALL BE NO SEPARATE PAYMENT FOR DEWATERING OF ANY KIND. ALL COSTS, INCLUDING PUMPS, HEADERS, WELL POINTS, ETC, SHALL BE INCLUDED IN THE VARIOUS PIPE ITEMS IN THE PROPOSAL.
36. ALL TRENCHES WITHIN THE PROJECT AREA SHALL BE BACKFILLED WITH CLEAN, DRY FILL. ALL EXCAVATED MATERIAL FROM THE ROADWAY TRENCHES SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR. ALL COSTS FOR BORROW FILL SHALL BE INCLUDED IN THE VARIOUS UTILITY AND STRUCTURE ITEMS PROVIDED IN THE PROPOSAL.
31. CONTRACTOR SHALL ESTABLISH A FULL STAND OF GRASS WITH NO BARE PATCHES, CRABGRASS OR WEEDS. THE CONTRACTOR SHALL RESEED ALL AREAS WITHIN THE LIMIT OF DISTURBANCE UNTIL 80% STABILIZATION HAS BEEN ACHIEVED.

NO.	DATE	REVISIONS	BY	CHKD

JASON WORTH, P.E.
TOWNSHIP ENGINEER

STATE OF NEW JERSEY · JASON R. WORTH · 24GE04928700 · LICENSED PROFESSIONAL ENGINEER

LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE No. GE49287

LITTLE EGG HARBOR TOWNSHIP
DEPARTMENT OF PUBLIC WORKS FACILITY IMPROVEMENTS
LITTLE EGG HARBOR TOWNSHIP, OCEAN COUNTY, NEW JERSEY

LEGEND AND GENERAL NOTES

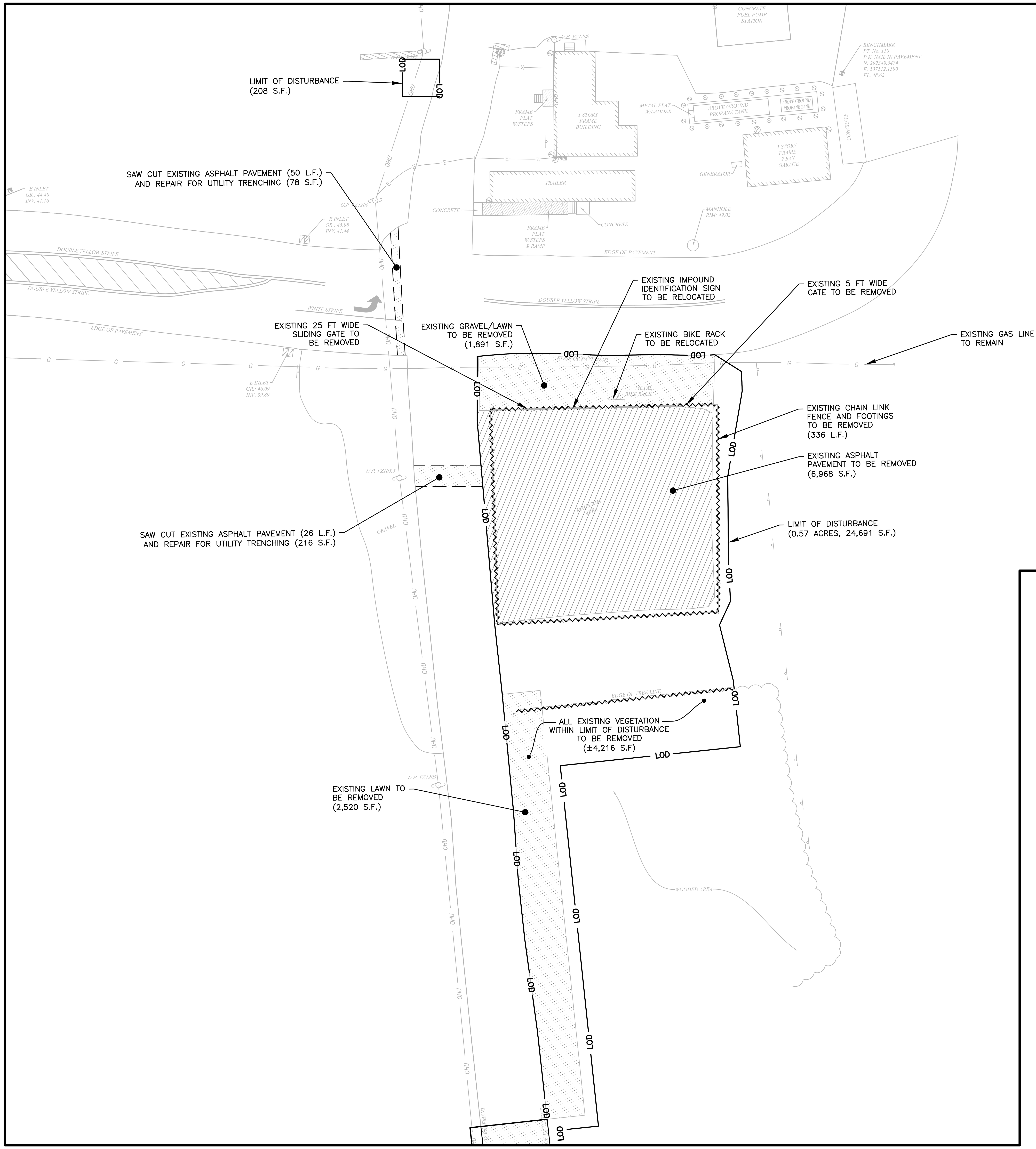
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CHECKED BY	JW
DRAWN BY	DEL
DATE	10/7/2026
SCALE	AS NOTED
PROJ. NO.	LEHT01952
DRAWING	LEG
SHEET	3 OF 37

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LAST SAVE BY: dlomphere

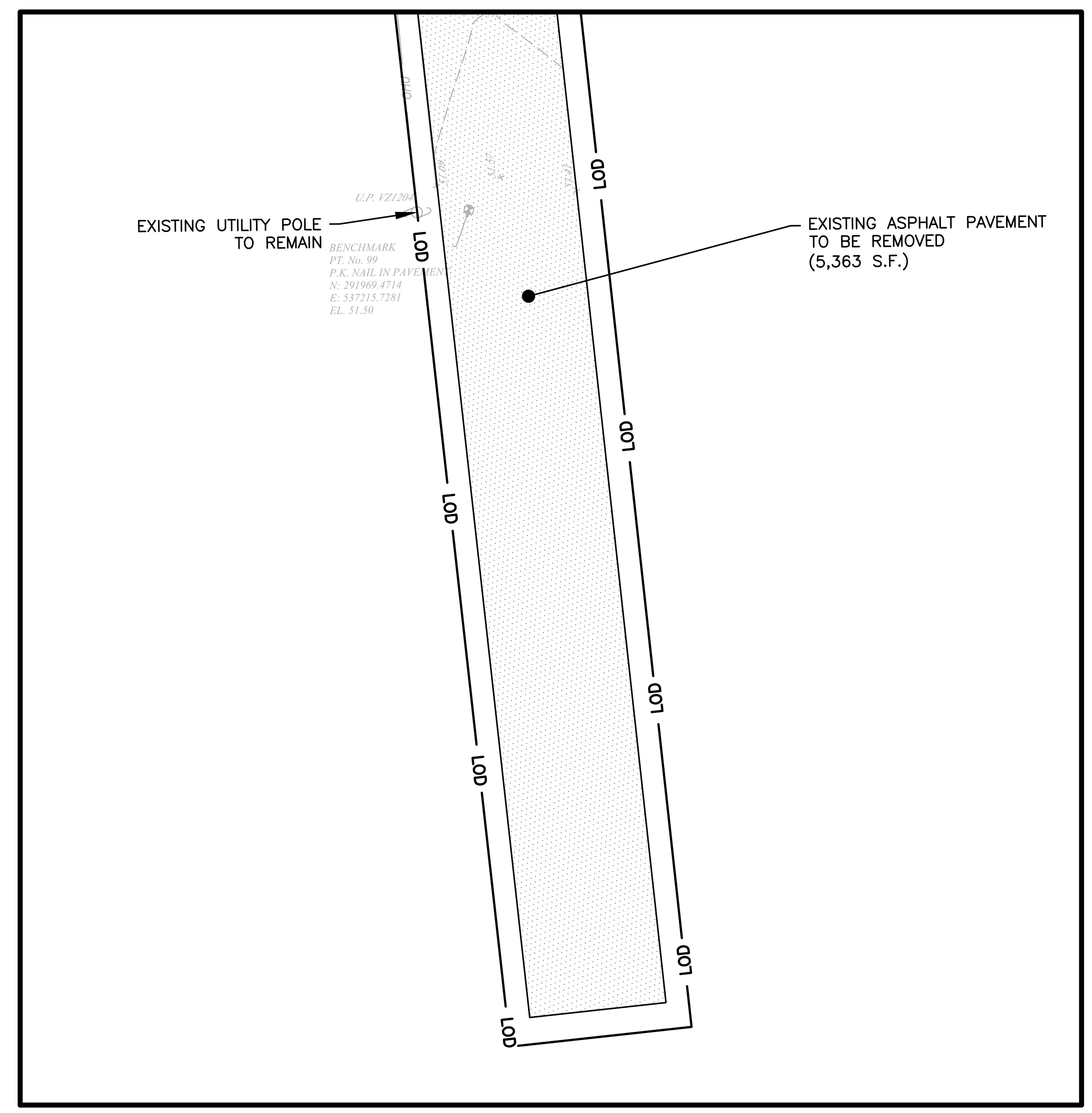


NOTE:

1. THE PAY ITEM FOR CLEARING SITE SHALL INCLUDE ALL DEMOLITION AND TREE REMOVAL SHOWN ON THIS SHEET.

DEMOLITION NOTES:

1. ALL DEMOLITION, INCLUDING THE DISCONNECTION AND RELOCATION OF EXISTING UTILITIES, SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, THE APPROPRIATE UTILITY, AND TOWNSHIP STANDARDS.
2. INSPECTION: PRIOR TO COMMENCEMENT OF SELECTIVE DEMOLITION WORK, INSPECT AREAS IN WHICH WORK WILL BE PERFORMED. PHOTOGRAPH EXISTING CONDITIONS OF STRUCTURES SURFACES, EQUIPMENT OR SURROUNDING PROPERTIES WHICH COULD BE MISCONSTRUED AS DAMAGE RESULTING FROM SELECTIVE DEMOLITION WORK, FILE WITH OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
3. PREPARATION: PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED AND ADJACENT STRUCTURES TO REMAIN. CEASE OPERATIONS AND NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IF SAFETY OR STRUCTURE APPEARS TO BE ENDANGERED. TAKE PRECAUTIONS TO SUPPORT STRUCTURE UNTIL DETERMINATION IS MADE FOR CONTINUING OPERATIONS.
4. CONDITION OF STRUCTURES: OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITION OF ITEMS TO BE DEMOLISHED.
5. PARTIAL DEMOLITION AND REMOVAL: ITEMS INDICATED TO BE REMOVED BUT OF SALVABLE VALUE TO CONTRACTOR MAY BE BE REMOVED FROM STRUCTURE AS WORK PROGRESSES. TRANSPORT SALVAGED ITEMS OFFSITE AS THEY ARE REMOVED. STORAGE OR SALE OF REMOVED ITEMS ON SITE WILL NOT BE PERMITTED. SALVAGED ITEMS THAT ARE TO BE RETAINED BY THE OWNER SHALL BE REMOVED AND RESTORED AS DIRECTED.
6. IF UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS WHICH CONFLICT WITH INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, INVESTIGATE AND MEASURE BOTH NATURE AND EXTENT OF CONFLICT. SUBMIT REPORT TO OWNER'S REPRESENTATIVE IN WRITTEN, ACCURATE DETAIL. PENDING RECEIPT OR DIRECTIVE FROM OWNER'S REPRESENTATIVE. REARRANGE SELECTIVE DEMOLITION SCHEDULE AS NECESSARY TO CONTINUE OVERALL PROCESS WITHOUT DELAY.
7. DISPOSAL OF DEMOLISHED MATERIALS: REMOVE DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM THE DEMOLITION OPERATIONS FROM BUILDING AND SITE. TRANSPORT AND LEGALLY DISPOSE OF MATERIALS OFF SITE.
8. REMOVAL AND REINSTALLATION: PROVIDE PROPER REMOVAL, STORAGE, AND PROTECTION FOR ITEMS INDICATED TO BE REMOVED AND REINSTALLED.
9. IF HAZARDOUS MATERIALS (INCLUDING ASBESTOS) ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, COMPLY WITH APPLICABLE REGULATIONS, LAWS AND ORDINANCES CONCERNING REMOVAL, HANDLING AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION. BURNING OF REMOVED MATERIAL IS NOT PERMITTED ON PROJECT SITE.
10. DAMAGES: PROMPTLY REPAIR DAMAGES CAUSED TO ON-SITE AND ADJACENT FACILITIES BY DEMOLITION WORK AT NO COST TO OWNER.
11. TRAFFIC: CONDUCT SELECTIVE DEMOLITION OPERATIONS AND DEBRIS REMOVAL IN A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROAD, STREETS, WALKS, PARKING AREAS AND OTHER ADJACENT OCCUPIED OR FACILITIES.
12. UTILITY SERVICES: LOCATE AND MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES AT AND ADJACENT TO THE SITE OF CONSTRUCTION AND PROTECT AGAINST DAMAGE DURING DEMOLITIONS OPERATIONS.
13. IF APPLICABLE REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED. RETURN STRUCTURES AND SURFACES TO REMAIN TO CONDITION EXISTING PRIOR TO COMMENCEMENT OF SELECTIVE DEMOLITION WORK. REPAIR ADJACENT CONSTRUCTION OR SURFACES SOILED OR DAMAGED BY DEMOLITION WORK.



KEY MAP
SCALE: 1"=20'

20' 10' 0 20' 40'
1" = 20'

NO.	DATE	REVISIONS	BY	CHKD

JASON WORTH, P.E.
TOWNSHIP ENGINEER

STATE OF NEW JERSEY JASON A. WORTH 24GE04928700 LICENSED PROFESSIONAL ENGINEER

LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE No. GE49287

LITTLE EGG HARBOR TOWNSHIP
DEPARTMENT OF PUBLIC WORKS FACILITY IMPROVEMENTS
LITTLE EGG HARBOR TOWNSHIP, OCEAN COUNTY, NEW JERSEY

EXISTING CONDITIONS AND DEMOLITION PLAN

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DESIGNED BY	RW	DRAWING	EXD
CHECKED BY	JW		
DRAWN BY	DEL	SHEET	4 OF 37
DATE	10/7/2026		
SCALE	AS NOTED		
PROJ. NO.	LEHT01952		

PROJECT INFORMATION:
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LAST SAVED DATE AND TIME: 06 Oct 2026, 4:17PM
LAST SAVE BY: dlamphere

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KEY MAP
SCALE: 1"=40'

40' 20' 0 40' 80'
1" = 40'

MAP NOTES:

THIS PLAN HAS BEEN PREPARED BASED ON REFERENCES INCLUDING:

1. TOPOGRAPHIC CONTOUR INFORMATION, EXISTING UTILITIES AND STRUCTURAL SITE FEATURES FROM: PARTIAL TOPOGRAPHY SURVEY OF PART OF TAX LOT 10.01, BLOCK 124, A.K.A 1363 OCEAN COUNTY ROUTE 539 LITTLE EGG HARBOR TOWNSHIP, NEW JERSEY 08087 PREPARED BY DMC ASSOCIATES, INC. 6 CAREY AVENUE, BUTLER, NJ 07405 DATED: 06/26/2026
2. TAX MAP INFORMATION TAKEN HEREIN FROM TAX MAP SHEET NO. 13.07, TOWNSHIP OF LITTLE EGG HARBOR, OCEAN COUNTY, NEW JERSEY, PREPARED BY THOMAS CRADER, P.L.S., DATED MAY 2007, REVISED DECMBER 2021.
3. LOT LINES, PARCEL AND EASEMENT BOUNDARY LOCATIONS ARE APPROXIMATED FROM TAX MAP SHEET NO. 13.07, TOWNSHIP OF LITTLE EGG HARBOR, OCEAN COUNTY, NEW JERSEY, PREPARED BY THOMAS CRADER, P.L.S., DATED MAY 2007, REVISED DECEMBER 2021.
4. THIS IS NOT A BOUNDARY SURVEY. PROPERTY BOUNDARY LINES DEPICTED HEREON ARE DERIVED EITHER FROM TAX MAP INFORMATION, OR DEEDS OF RECORD. PROPERTY BOUNDARY LINES ARE SUBJECT TO CHANGE IN ACCORDANCE WITH SUCH FACTS AS AN ACCURATE TITLE SEARCH AND SURVEY OF THE ENTIRE TRACT MAY DISCLOSE.
5. ZONING BOUNDARY APPROXIMATED AND TAKEN FROM LITTLE EGG HARBOR ZONING MAP 1 OF 2, PREPARED BY REMINGTON & VERNICK ENGINEERS, DATED SEPTEMBER 2024.
6. AERIAL IMAGERY SHOWN HEREON WAS OBTAINED FROM NEARMAP (DATED 03/20/2026) AND IS PROVIDED FOR REFERENCE PURPOSES ONLY; FIELD CONDITIONS MAY VARY.

NO.	DATE	REVISIONS	BY	CHKD

JASON WORTH, P.E.
TOWNSHIP ENGINEER

STATE OF NEW JERSEY · JASON A. WORTH · 24GE04928700 · LICENSED PROFESSIONAL ENGINEER

LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE No. GE49287

LITTLE EGG HARBOR TOWNSHIP

DEPARTMENT OF PUBLIC WORKS FACILITY IMPROVEMENTS

LITTLE EGG HARBOR TOWNSHIP, OCEAN COUNTY, NEW JERSEY

OVERALL SITE PLAN

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DATE	10/7/2026
SCALE	AS NOTED
PROJ. NO.	LEHT01952
DRAWING	OVR
SHEET	5 OF 37

PROJECT INFORMATION:
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LAST PLOTTED: 10/8/2026 - TIME: 10/8/2026, 2:22PM
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LOCATION OF RELOCATED GUARD SHACK (BY TOWNSHIP)

PROP. 146 S.F. SAWCUT AND PAVEMENT REPAIR

PROP. ADA STRIPING

PROP. 3017 S.F. STANDARD DUTY ASPHALT PAVEMENT (TYP.)

PROP. BOLLARD (TYP. OF 5)

PROP. 448 S.F. 4" CONCRETE SIDEWALK (TYP.)

PROP. 76 L.F. FLUSH CONCRETE CURB (TYP.)

PROPOSED DOMESTIC WATER WELL (LOCATION TO BE VERIFIED)

PROP. BOLLARD (TYP. OF 3)

PROP. ADA SIGN ON BOLLARD

PROP. STAIRS W/ HANDRAILS (7 STEPS) (REFER TO BUILDING DRAWINGS)

PROP. 6" STRIPED 1285 S.F. LOADING AREA

RELOCATED BIKE RACK

PROP. ADA ENTRANCE RAMP W/ HANDRAILS (REFER TO BUILDING DRAWINGS)

PROP. 260 S.F. LANDSCAPED AREA (TO EXTEND THE LENGTH OF BUILDING)

PROP. STAIRS W/ HANDRAILS (6 STEPS) 6" THICK CONCRETE LANDING BENEATH RAMP AND STAIRS (REFER TO BUILDING DRAWINGS)

PROP. 216 S.F. SAWCUT AND PAVEMENT REPAIR

PROPOSED MODULAR DPW BUILDING (2,520 S.F.)

PROP. CLEAN OUT

ALL AREAS WITHIN LIMITS OF DISTURBANCE (EXCLUDING IMPERVIOUS SURFACES) TO BE RESTORED, LANDSCAPED, SEEDED W/ TOPSOIL AND FERTILIZER (13,358 S.F.)

PROP. SEPTIC FIELD 1,050 S.F. GRAVITY FED C DISPOSAL BED

PROP. 37 S.F. 6" THICK CONCRETE STAIR LANDING (TYP.)

PROP. 1,500 GALLON 2-COMPARTMENT SEPTIC TANK W/ EFFLUENT FILTER

PROP. 25 FT WIDE, 8 FT HIGH BLACK VINYL CHAIN LINK SLIDING ACCESS GATE WITH 2" PRIVACY SLATS

PROP. 1,000 GALLON DOSING TANK W/ TIME DOSING CONTROLS

PROP. 5 FT WIDE, 8 FT HIGH BLACK VINYL CHAIN LINK ACCESS GATE WITH 2" PRIVACY SLATS

PROP. TREE LINE

PROP. RELOCATION FOR IMPOUND LOT (+/- 6,600 S.F.)

PROP. IMPOUND LOT 8 FT HIGH, 410 L.F. BLACK VINYL CHAIN LINK SECURITY FENCE WITH 2" PRIVACY SLATS

PROP. 2520 S.F. STANDARD DUTY ASPHALT PAVEMENT (TYP.)

PROP. PLANTED AND SEEDED GRASS AREA TO BE SEEDED W/ TOPSOIL AND FERTILIZER (5,384 S.F.)

KEY MAP
SCALE: 1"=20'

20' 10' 0 20' 40'
1" = 20'

PROJECT INFORMATION:
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FILE NAME: LEHT01952 - SHEET06 - SITE.dwg
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JASON WORTH, P.E.
TOWNSHIP ENGINEER

STATE OF NEW JERSEY JASON A. WORTH 24GE04928700 LICENSED PROFESSIONAL ENGINEER

LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE No. GE49287

LITTLE EGG HARBOR TOWNSHIP

DEPARTMENT OF PUBLIC WORKS FACILITY IMPROVEMENTS

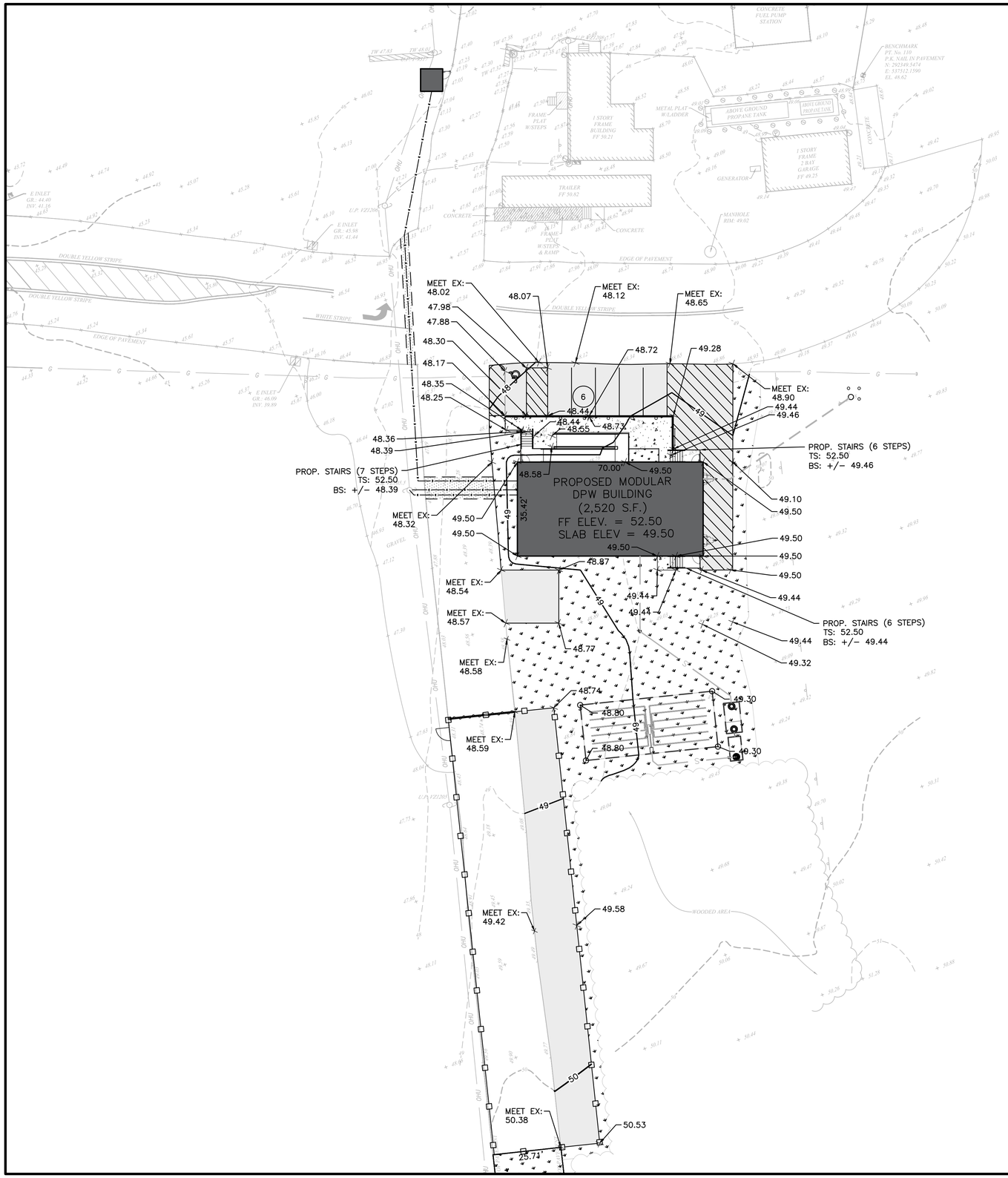
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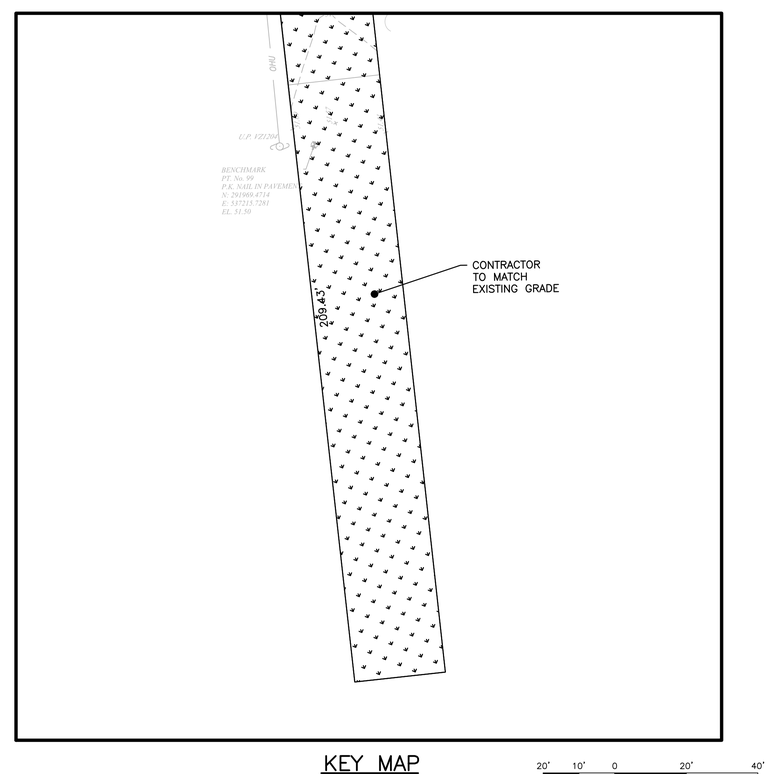
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SHEET	6 OF 37





KEY MAP
SCALE: 1"=20'

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1" = 20'

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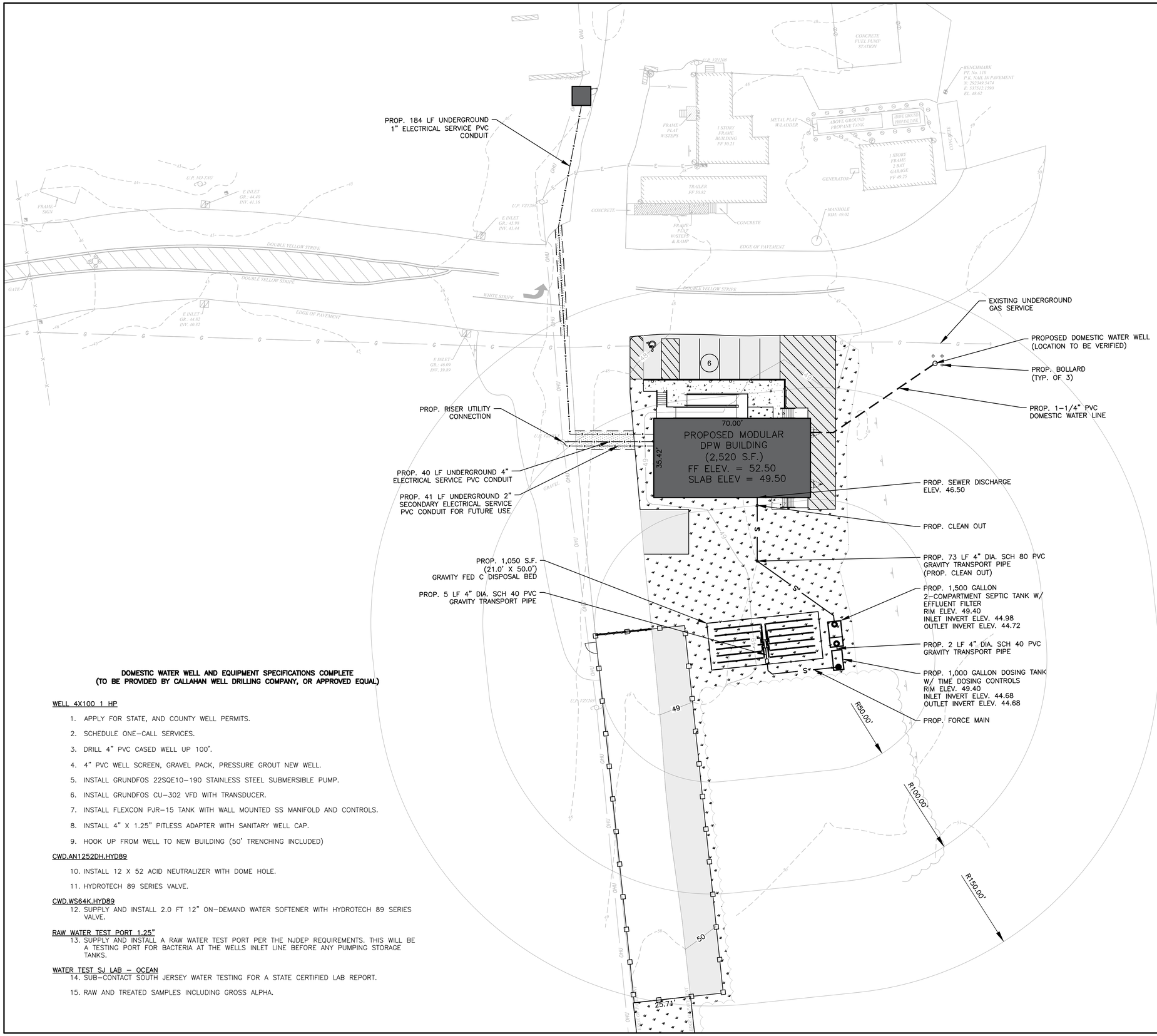
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GRADING AND DRAINAGE PLAN

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DATE	10/7/2026
SCALE	AS NOTED
PROJ. NO.	LEHT01952
DRAWING	GRD
SHEET	7 OF 37



NOTES:

1. REFER TO SEPTIC DRAWINGS PREPARED BY HOUSER ENGINEERING, LLC FOR SEPTIC CONSTRUCTION DETAILS, CROSS-SECTIONS, PROFILES, AND CONSTRUCTIONS SPECIFICATIONS.

2. CONTRACTOR TO PROVIDE OPERATIONS AND MAINTENANCE (O&M) MANUALS FOR ALL UTILITIES.

DOMESTIC WATER WELL AND EQUIPMENT SPECIFICATIONS COMPLETE (TO BE PROVIDED BY CALLAHAN WELL DRILLING COMPANY, OR APPROVED EQUAL)

WELL 4X100 1 HP

1. APPLY FOR STATE, AND COUNTY WELL PERMITS.
2. SCHEDULE ONE-CALL SERVICES.
3. DRILL 4" PVC CASED WELL UP 100'.
4. 4" PVC WELL SCREEN, GRAVEL PACK, PRESSURE GROUT NEW WELL.
5. INSTALL GRUNDFOS 22SQE10-190 STAINLESS STEEL SUBMERSIBLE PUMP.
6. INSTALL GRUNDFOS CU-302 VFD WITH TRANSDUCER.
7. INSTALL FLEXCON PJR-15 TANK WITH WALL MOUNTED SS MANIFOLD AND CONTROLS.
8. INSTALL 4" X 1.25" PITLESS ADAPTER WITH SANITARY WELL CAP.
9. HOOK UP FROM WELL TO NEW BUILDING (50' TRENCHING INCLUDED)

CWD.AN1252DH.HYD89

10. INSTALL 12 X 52 ACID NEUTRALIZER WITH DOME HOLE.
11. HYDROTECH 89 SERIES VALVE.

CWD.WS64K.HYD89

12. SUPPLY AND INSTALL 2.0 FT 12" ON-DEMAND WATER SOFTENER WITH HYDROTECH 89 SERIES VALVE.

RAW WATER TEST PORT 1.25"

13. SUPPLY AND INSTALL A RAW WATER TEST PORT PER THE NJDEP REQUIREMENTS. THIS WILL BE A TESTING PORT FOR BACTERIA AT THE WELLS INLET LINE BEFORE ANY PUMPING STORAGE TANKS.

WATER TEST SJ LAB - OCEAN

14. SUB-CONTACT SOUTH JERSEY WATER TESTING FOR A STATE CERTIFIED LAB REPORT.
15. RAW AND TREATED SAMPLES INCLUDING GROSS ALPHA.

20' 10' 0 20' 40'
1" = 20'

NO.	DATE	REVISIONS	BY	CHKD

JASON WORTH, P.E.
TOWNSHIP ENGINEER

LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE No. GE49287

LITTLE EGG HARBOR TOWNSHIP
DEPARTMENT OF PUBLIC WORKS FACILITY IMPROVEMENTS
LITTLE EGG HARBOR TOWNSHIP, OCEAN COUNTY, NEW JERSEY

UTILITY PLAN

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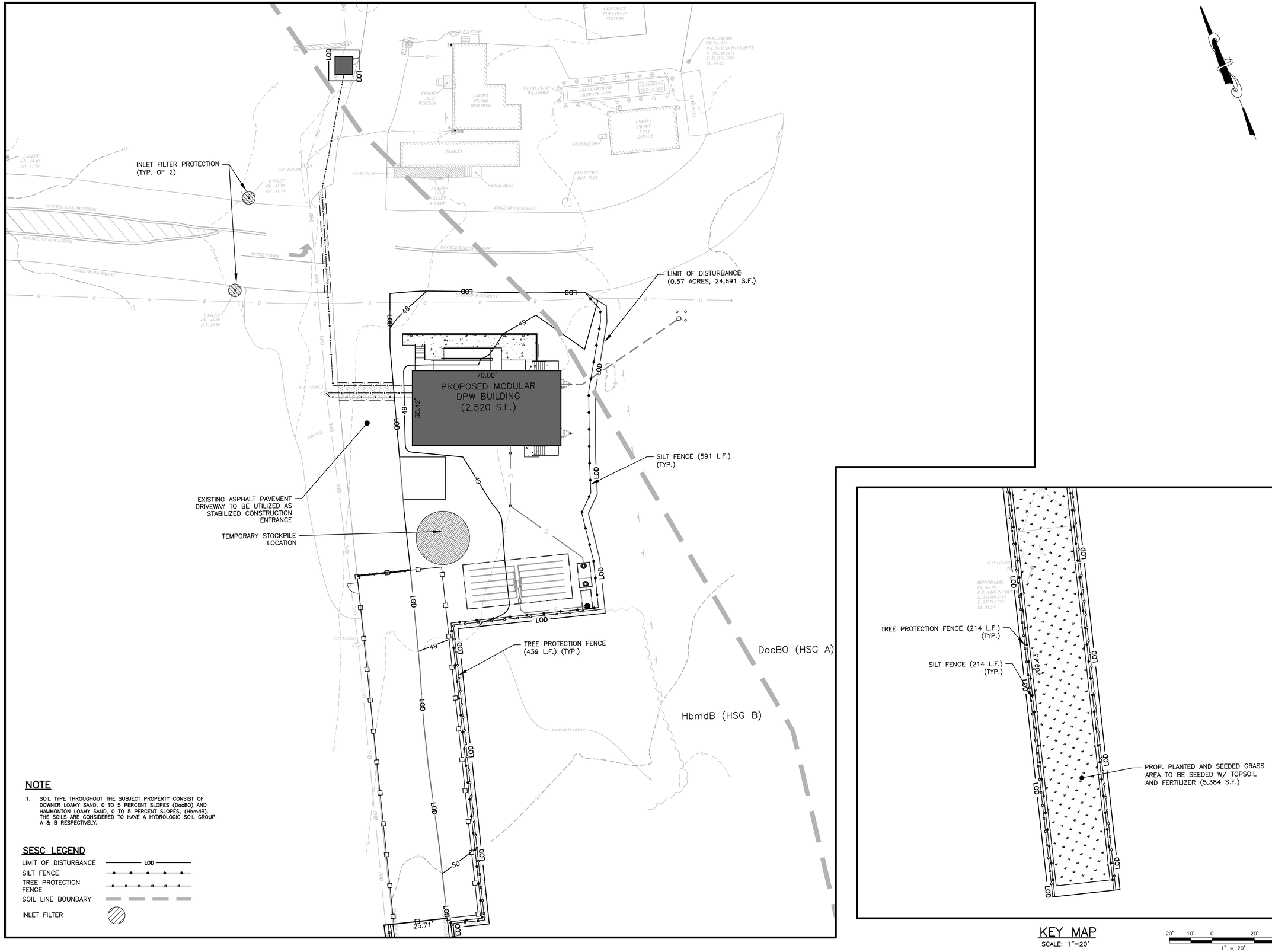
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NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION 24GA27987500

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DRAWN BY	DEL
DATE	10/7/2026
SCALE	AS NOTED
PROJ. NO.	LEHT01952
DRAWING	UTL
SHEET	8 OF 37

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NOTE

1. SOIL TYPE THROUGHOUT THE SUBJECT PROPERTY CONSIST OF DOWNER LOAMY SAND, 0 TO 5 PERCENT SLOPES (DocBO) AND HAMMONTON LOAMY SAND, 0 TO 5 PERCENT SLOPES, (HbmdB). THE SOILS ARE CONSIDERED TO HAVE A HYDROLOGIC SOIL GROUP A & B RESPECTIVELY.

SESC LEGEND

LIMIT OF DISTURBANCE	LOD
SILT FENCE	
TREE PROTECTION FENCE	
SOIL LINE BOUNDARY	
INLET FILTER	

KEY MAP
SCALE: 1"=20'

20' 10' 0 20' 40'
1" = 20'

NO.	DATE	REVISIONS	BY	CHKD

JASON WORTH, P.E.
TOWNSHIP ENGINEER

STATE OF NEW JERSEY · JASON A. WORTH · 24GE04928700 · LICENSED PROFESSIONAL ENGINEER

LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE No. GE49287

LITTLE EGG HARBOR TOWNSHIP

DEPARTMENT OF PUBLIC WORKS FACILITY IMPROVEMENTS

LITTLE EGG HARBOR TOWNSHIP, OCEAN COUNTY, NEW JERSEY

SOIL EROSION AND SEDIMENT CONTROL PLAN

YOUR GOALS. OUR MISSION.

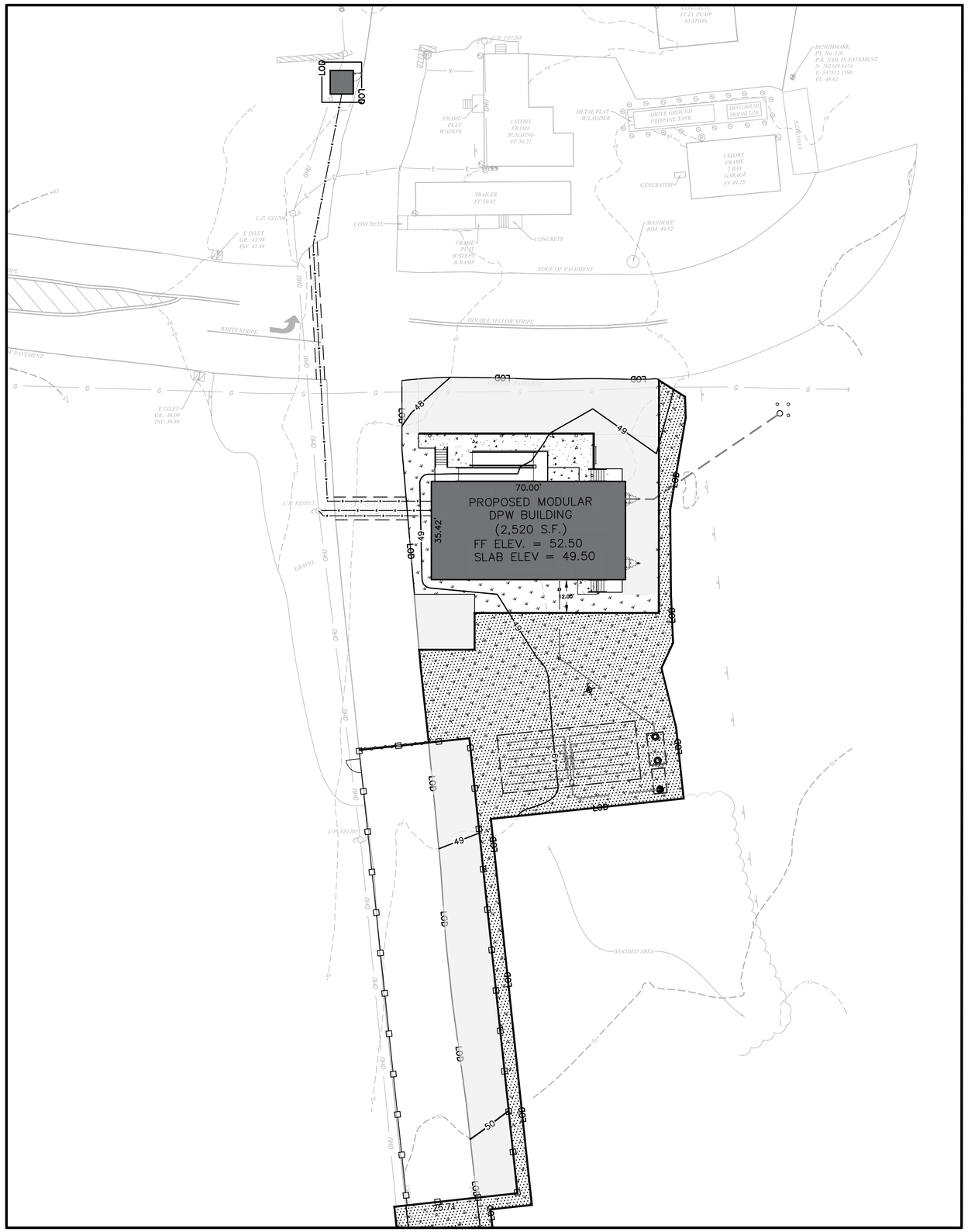
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SOIL DE–COMPACTION AND TESTING REQUIREMENTS

A. SOIL COMPACTION TESTING REQUIREMENTS

1. SUBGRADE SOILS PRIOR TO THE APPLICATION OF TOPSOIL (SEE PERMANENT SEEDING AND STABILIZATION NOTES FOR TOPSOIL REQUIREMENTS) SHALL BE FREE OF EXCESSIVE COMPACTION TO A DEPTH OF 6.0 INCHES TO ENHANCE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.
2. AREAS OF THE SITE WHICH ARE SUBJECT TO COMPACTION TESTING AND/OR MITIGATION ARE GRAPHICALLY DENOTED ON THE CERTIFIED SOIL EROSION CONTROL PLAN.
3. COMPACTION TESTING LOCATIONS ARE DENOTED ON THE PLAN. LOCATION ID'S SHALL BE USED TO COMPLETE 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 SIMPLIFIED TESTING METHODS (SEE DETAILS BELOW), THE CONTRACTOR/OWNER SHALL HAVE THE OPTION TO PERFORM EITHER (1) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA DENOTED ON THE PLAN (EXCLUDING EXEMPT AREAS), OR (2) PERFORM ADDITIONAL, MORE DETAILED TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL DETAILED TESTING SHALL BE PREFORMED BY A TRAINED, LICENSED PROFESSIONAL.

B. COMPACTION TESTING METHODS

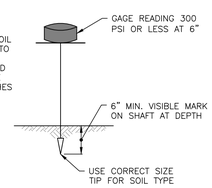
1. PROBING WIRE TEST (SEE DETAIL)
2. HAND–HELD PENETROMETER TEST (SEE DETAIL)
3. TUBE BULK DENSITY TEST (LICENSED PROFESSIONAL REQUIRED)
4. NUCLEAR DENSITY TEST (LICENSED PROFESSIONAL REQUIRED)
5. NOTE: ADDITIONAL TESTING METHODS WHICH CONFORM TO ASTM STANDARDS AND SPECIFICATIONS, AND WHICH PRODUCE A DRY WEIGHT, SOIL BULK DENSITY MEASUREMENT MAY BE ALLOWED SUBJECT TO DISTRICT APPROVAL.
6. DETAILED REQUIREMENTS FOR EACH COMPACTION TESTING METHOD CAN BE FOUND IN SECTION 19 "STANDARD FOR LAND GRADING" OF THE NJ STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION.
7. SOIL COMPACTION TESTING IS NOT REQUIRED IF/WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) OR SIMILAR) IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION.

C. PROCEDURES FOR SOIL COMPACTION MITIGATION

1. 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.). IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAYBE SUBSTITUTED SUBJECT TO DISTRICT APPROVAL.

NOTE:
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. MEASURE DEPTH WHEN GAGE READING REACHES 300 PSI OR DEPTH OF 6"

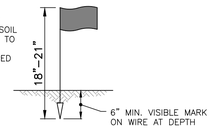
* PENETROMETER MAY BE RE–INSERTED IF/WHEN AN OBSTRUCTION (ROCK, ROOT, DEBRIS) IS ENCOUNTERED.



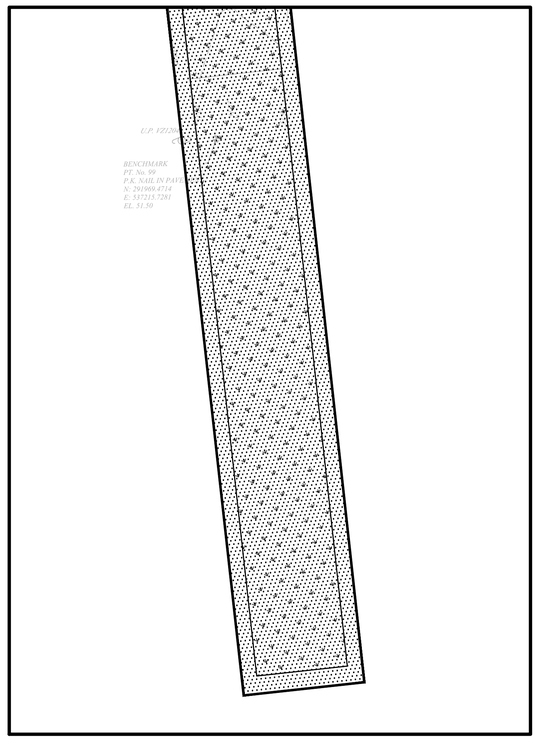
HANDHELD SOIL PENETROMETER TEST
N.T.S

NOTE:
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 WIRE.

* WIRE MAY BE RE–INSERTED IF/WHEN AN OBSTRUCTION (ROCK, ROOT, DEBRIS) IS ENCOUNTERED.



PROBING WIRE TEST
15.5 GA. STEEL WIRE (SURVEY FLAG)
N.T.S



KEY MAP
SCALE: 1"=20'

LEGEND

LOD — PROPOSED LIMIT OF DISTURBANCE

SOIL RESTORATION AREAS

RECOMMENDED SOIL COMPACTION TEST LOCATION (APPROX. 1 PER/.5 ACRE)
SOIL AREA = 14219 SF = 0.33 Ac
0.33 Ac/0.50 = 0.66 = 1 FLAG

20' 10' 0 20' 40'
1" = 20'

NO.	DATE	REVISIONS	BY	CHKD

JASON WORTH, P.E.
TOWNSHIP ENGINEER

STATE OF NEW JERSEY · JASON A. WORTH · 24GE04928700 · LICENSED PROFESSIONAL ENGINEER

LICENSED PROFESSIONAL ENGINEER
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SOIL EROSION RESTORATION PLAN

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STANDARD FOR TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

DEFINITION

ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER ON SOILS EXPOSED FOR PERIODS OF TWO TO 6 MONTHS WHICH ARE NOT BEING GRADED, NOT UNDER ACTIVE CONSTRUCTION OR NOT SCHEDULED FOR PERMANENT SEEDING WITHIN 60 DAYS.

PURPOSE

TO TEMPORARILY STABILIZE THE SOIL AND REDUCE DAMAGE FROM WIND AND WATER EROSION UNTIL PERMANENT STABILIZATION IS ACCOMPLISHED.

WATER QUALITY ENHANCEMENT

PROVIDES TEMPORARY PROTECTION AGAINST THE IMPACTS OF WIND AND RAIN, SLOWS THE OVERLAND MOVEMENT OF STORMWATER RUNOFF, INCREASES INFILTRATION AND RETAINS SOIL AND NUTRIENTS ON SITE, PROTECTING STREAMS OR OTHER STORMWATER CONVEYANCES.

WHERE APPLICABLE

ON EXPOSED SOILS THAT HAVE THE POTENTIAL FOR CAUSING OFF–SITE ENVIRONMENTAL DAMAGE.

METHODS AND MATERIALS

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 STANDARDS FOR LAND GRADING, P. 19–1.
B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.
C. 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.).

A. APPLY GROUND LIMESTONE AND FERILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS THOSE 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 11 POUNDS PER 1,000 SQUARE FEET OF 10–20–10 OR EQUIVALENT WITH 50% WATER INSOLUABLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES. TABLE BELOW IS A GENERAL QUIDELINE FOR LIMESTONE APPLICATION. SOIL TESTING SHALL BE IN THE FIELD FOR LIMESTONE.
B. FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED IS PREPARED.
C. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AS ABOVE.
D. SOILS HIGH ON SULFIDES OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, PG. 1–1 OF THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.

A. SELECT SEED FROM RECOMMENDATIONS IN TABLE.

TABLE 7-2
TEMPORARY VEGETATIVE STABILIZATION GRASSES, SEEDING RATES, DATES AND DEPTH.

SEED SELECTIONS	SEEDING RATE [1] (pounds)		OPTIMUM SEEDING DATE [2] Based on Plant Hardiness [3] Zone			OPTIMUM SEED DEPTH [4] (inches)
	Per Acre	Per 1000 Sq. Ft.	ZONE 5b, 6s	ZONE 6b	ZONE 7a, b	
COOL SEASON GRASSES						
1. Perennial ryegrass	100	1.0	3/15-6/1 8/1-9/15	3/1-5/15 8/15-10/1	2/15-5/1 8/15-10/15	0.5
2. Spring oats	86	2.0	3/15-6/1 8/1-9/15	3/1-5/15 8/15-10/1	2/15-5/1 8/15-10/15	1.0
3. Winter Barley	96	2.2	8/1-9/15	8/15-10/1	8/15-10/15	1.0
4. Annual ryegrass	100	1.0	3/15-6/1 8/1-9/15	3/15-6/1 8/1-9/15	2/15-5/1 8/15-10/15	0.5
5. Winter Cereal Rye	112	2.8	8/1 -11/1	8/1 -11/15	8/1 -12/15	1.0
WARM SEASON GRASSES						
6. Pearl millet	20	0.5	6/1-8/1	5/15-8/15	5/1-9/1	1.0
7. Millet (German or Hungarian)	30	0.7	6/1-8/1	5/15-8/15	5/1-9/1	1.0

1 SEEDING RATE FOR WARM SEASON GRASS, SELECTIONS 5 – 7 SHALL BE ADJUSTED TO REFLECT THE AMOUNT OF PURE LINE SEED (PLS) AS DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES.
2 MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEEDED AREA CAN BE IRRIGATED.
3 PLANT HARDINESS ZONE (SEE FIGURE 7–1, PG. 7–4.)
4 TWICE THE DEPTH FOR SANDY SOILS.

B. CONVENTIONAL SEEDING. APPLY 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, 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. 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 CONTACT 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 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.

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. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY 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 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 UNIFORMLY BY HAND MECHANICALLY SO THAT APPROXIMATELY 85% 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 SHOULD 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.

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 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. HIS 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 OR STRAW MULCHES.

   a. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. REMAINDER OF AREA SHOULD BE UNIFORM IN APPEARANCE.

   b. USE ONE OF THE FOLLOWING:

1. EMULSIFIED ASPHALT – (SS–1, CSS–1, CMS–2, MS–2, RS–1, RS–2, CRS–1, AND CRS–2). APPLY 0.04 GAL./SQ. YD. OR 194 GAL./ACRE ON FLAT SLOPES LESS THAN 8 FEET HIGH. ON SLOPES 8 FEET OR MORE HIGH, USE 0.075 GAL./SQ. YD. OR 363 GAL./ACRE. THESE MATERIALS MAY BE DIFFICULT TO APPLY UNIFORMLY AND WILL DISCOLOR SURFACES.
2. 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 IN A PHYTOTOXIC EFFECT OR 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 IN THIS STATE.
3. 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.

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. THIS MULCH SHALL NOT BE MIXED IN THE TANK WITH THE 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 MANUFACTURERS 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 WEED–SEED FREE MULCH IS DESIRED OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACITCAL 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.

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.

PURPOSE

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

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

METHODS AND MATERIALS

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.

   C. 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://NJ'PAES.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 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.

   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 REPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID–PRODUCING SOILS FOR SPECIFIC REQUIREMENTS.

3. SEEDING

   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.

      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 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.

      3. COOL–SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT TEMPERATURES BELOW 850F. MANY GRASSES BECOME ACTIVE AT 650F. SEE TABLE 4–3, MIXTURES 8–20. ADJUSTMENT OF PLANTING RATES TO COMPENSATE FOR THE AMOUNT OF PLS IS NOT REQUIRED FOR COOL SEASON GRASSES.

   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 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 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 REDUCED SEED GERMINATION AND GROWTH.

4. 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% 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.

   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 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, 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 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 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 BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.

         NOTE: 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 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.

5. IRRIGATION (WHERE FEASIBLE)

   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.

6. TOPDRESSING

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

7. ESTABLISHING PERMANENT VEGETATIVE STABILIZATION

   THE 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) AND MOWED ONCE. NOTE THIS DESIGNATION OF MOWED ONCE DOES NOT GUARANTEE THE PERMANENCY OF THE TURF SHOULD OTHER MAINTENANCE FACTORS BE NEGLECTED OR OTHERWISE MISMANAGED. 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.

NOTE:
ALL PAGE NUMBERS AND STANDARDS REFERENCES REFER TO "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY", JANUARY 2014, REVISED JULY 2017 BY THE NEW JERSEY STATE SOIL CONSERVATION COMMITTEE.

STANDARD FOR TOPSOILING

METHODS AND MATERIALS

1. MATERIALS

   A. TOPSOIL SHOULD BE FRIABLE (MEANS EASILY CRUMBLES IN THE FINGERS, AS DEFINED IN MOST SOILS TEXTS), LOAMY (MEANS TEXTURE GROUPS CONSISTING OF COARSE LOAMY SANDS, SANDY LOAM, FINE AND VERY FINE SANDY LOAM, LOAM, SILT LOAM, CLAY LOAM, SANDY CLAY LOAM AND SILTY CLAY LOAM TEXTURES AND HAVING LESS THAN 35% COARSE FRAGMENTS (PARTICLES LESS THAN 2MM IN SIZE) AS DEFINED IN THE GLOSSARY OF SOIL SCIENCE TERMS, 1996, SOIL SCIENCE SOCIETY OF AMERICA.), 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. STRIPING AND STOCKPILING

   A. FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING.

   B. STRIPPING SHALL BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA.

   C. WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY SOIL TESTS TO BRING THE SOIL PH TO APPROXIMATELY 6.5.

   D. A 4–6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL.

   E. 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.

3. SITE PREPARATION

   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 THE ESSENCE.

   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 GRADING, PG. 19–1.

   E. EMPLOY NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENTATION BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.

4. APPLYING TOPSOIL

   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 OF HIGH ACID PRODUCING SOIL (PG. 1–1).

   C. 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 TESTS SUCH AS THOSE OFFERED BY RUTGERS COOPERATIVE EXTENSION SERVICE OR OTHER APPROVED LABORATORY FACILITIES QUALIFIED TO TEST SOIL SAMPLES FOR AGRONOMIC PROPERTIES.

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. THE DISTRICT INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH "THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, 7TH EDITION, JANUARY 2014, REVISED JULY 2017." (SESC STANDARDS)

2. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE SESC STANDARDS.

3. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

4. 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. THE REVISED PLANS MUST MEET ALL CURRENT SESC STANDARDS.
STANDARDS: HTTP://WWW.STATE.NJ.US/AGRICULTURE/DIVISIONS/ANR/NRC/NJEROSION.HTML

5. N.J.S.A 4:24–39 ET SEQ. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THERE HAS BEEN COMPLIANCE WITH PROVISIONS OF A CERTIFIED PLAN FOR PERMANENT MEASURES. ALL SITE WORK, AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.

6. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED FOR MORE THAN SIXTY (60) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL WITHIN 14 DAYS, AT A RATE OF 2 TO 2 ½ TONS PER ACRE AND ANCHORED IN PLACE ACCORDING TO THE SESC STANDARD FOR STABILIZATION WITH MULCH ONLY.

7. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E., STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 1 ½ TO 2 TONS PER ACRE AND ANCHORED IN PLACE ACCORDING TO THE SESC STANDARDS.

8. 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.

9. ANY STEEP SLOPES (3:1 OR GREATER) OR ANY EXISTING ROADWAYS RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES.

10. THE SESC STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A STONE PAD USING CLEAN, CRUSHED, ANGULAR STONE (ASTM C–33, SIZE NO. 2 OR 3) AT ALL CONSTRUCTION DRIVEWAYS WHERE VEHICLES WILL ACCESS PAVED ROADWAYS FROM UNPAVED AREAS OF THE SITE.

11. PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. AT THE TIME OF THE FINAL INSPECTION, YOU ARE REQUIRED TO PROVIDE CONFIRMATION THAT THE PROPER TYPE AND AMOUNT OF SEED, LIME AND FERTILIZER HAVE BEEN USED FOR PERMANENT STABILIZATION WORK. STRAW MULCH PROPERLY ANCHORED IN PLACE IS REQUIRED ON ALL SEEDING IN ACCORDANCE TO THE SESC STANDARDS.

12. 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.

13. IN ACCORDANCE WITH THE SESC STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY–FOUR (24) INCHES OF SOIL HAVING A PH OF 5 OR MORE.

14. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL. CONDUIT OUTLET PROTECTION INSTALLATION SHALL BE POSTPONED IN BASINS ACTING AS SEDIMENT BASINS DURING CONSTRUCTION.

15. 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 SESC STANDARD FOR DEWATERING.

16. 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, MULCH SHALL BE APPLIED AND ANCHORED IN PLACE, OR OTHER DUST CONTROL METHOD SHALL BE EMPLOYED AS REQUIRED BY THE SESC STANDARD FOR DUST CONTROL.

17. 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 AN AMENDED SOIL EROSION AND SEDIMENT CONTROL PLAN. THE DISTRICT RESERVES THE RIGHT TO DETERMINE WHEN CERTIFICATION OF A NEW AND SEPARATE SOIL EROSION AND SEDIMENT CONTROL PLAN WILL BE REQUIRED FOR THESE ACTIVITIES.

18. ALL SOIL STOCKPILES ARE TO BE SURROUNDED WITH A SEDIMENT BARRIER AND STABILIZED IN ACCORDANCE WITH THE SESC STANDARDS. STOCKPILES SHOULD BE SITUATED SO AS TO NOT OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF–SITE ENVIRONMENTAL DAMAGE.

19. 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.

NO.	DATE	REVISIONS	BY	CHKD

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TOWNSHIP ENGINEER

STATE OF NEW JERSEY
JASON A. WORTH
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LICENSED PROFESSIONAL ENGINEER

LICENSED PROFESSIONAL ENGINEER
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LITTLE EGG HARBOR TOWNSHIP
DEPARTMENT OF PUBLIC WORKS FACILITY IMPROVEMENTS
LITTLE EGG HARBOR TOWNSHIP, OCEAN COUNTY, NEW JERSEY

SOIL EROSION AND SEDIMENT CONTROL DETAILS

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CALIFORNIA, INDIANA, KENTUCKY, MASSACHUSETTS, MICHIGAN, NEW JERSEY, OHIO AND PENNSYLVANIA

DESIGNED BY	RW	DRAWING	SED-1
CHECKED BY	JW		
DRAWN BY	DEL	SHEET	11 OF 37
DATE	10/7/2026		
SCALE	AS NOTED		
PROJ. NO.	LEHT01952		

PROJECT INFORMATION:
FILE PATH: G:\Projects\LEHT\01952\Plans\
FILE NAME: LEHT01952–SHEET11–SED.dwg
LAST SAVED DATE AND TIME: 02 Sep 2026, 8:45AM
LAST SAVE BY: DLamphere

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DUST CONTROL NOTES

THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:

MULCHES – SEE STANDARD FOR STABILIZATION WITH MULCHES ONLY (PG. 5–1)

VEGETATIVE COVER – SEE STANDARD FOR TEMPORARY VEGETATIVE COVER (PG. 7–1), PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION (PG. 4–1), AND PERMANENT STABILIZATION WITH SOD (PG. 6–1)

SPRAY ON ADHESIVES – ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.

TABLE 16–1 : DUST CONTROL MATERIALS

	WATER DILUTION	TYPE OF NOZZLE	APPLY GAL./ACRE
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1200
	12.5:1	FINE SPRAY	235
	4:1	FINE SPRAY	300
	APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS. SEE SEDIMENT BASIN STANDARD (PG. 26–1)		
ACIDULATED SOY BEAN	NONE	COARSE SPRAY	1200

TILLAGE – TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL–TYPE PLOWS SPACED ABOUT 12 INCHES APART, AND SPRING–TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRE EFFECT.

SPRINKLING – SITE IS SPRINKLED UNTIL THE SURFACE IS WET.

BARRIERS – SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.

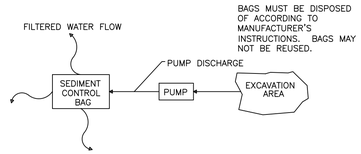
CALCIUM CHLORIDE – SHALL BE IN THE FORM OF LOOSE, DRY GRANULATES OF FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTIONS OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS.

STONE – COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

SEQUENCE OF CONSTRUCTION

APPROX. TOTAL DURATION = 4.75 MONTHS

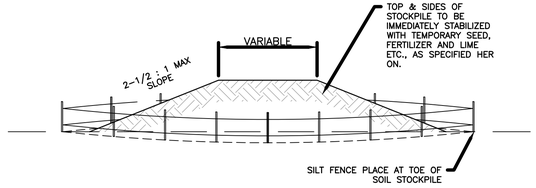
DURATION	CONSTRUCTION OPERATIONS
1 WEEK	MOBILIZATION
1 DAY	ESTABLISH 2 BENCHMARKS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
2 DAYS	INSTALL TEMPORARY SE&SC DEVICES, INCLUDING SILT FENCING, AND INLET FILTERS.
1 WEEK	REMOVE ON/OFF–SITE FEATURES AS IDENTIFIED ON THE DEMOLITION PLAN.
2 WEEKS	ROUGH GRADE SITE TO BE DEVELOPED, STOCKPILING ANY EXCESS TOPSOIL AND OTHER MATERIAL INTO SEPARATE, TEMPORARY STOCKPILES TO BE SURROUNDED BY SILT FENCE. IF STOCKPILES OR OTHER DISTURBED AREAS ARE TO BE LEFT IN A DISTURBED STATE FOR MORE THAN 30 DAYS AND WILL NOT BE SUBJECT TO CONSTRUCTION TRAFFIC, THEY SHALL RECEIVE TEMPORARY SEEDING IMMEDIATELY. IF SEASON PREVENTS ESTABLISHMENT OF A TEMPORARY COVER, DISTURBED AREAS SHALL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL AT A RATE OF 2 TONS PER ACRE.
2 MONTHS	CONSTRUCT SITE UTILITIES. PERMANENT STABILIZATION MEASURES TO BE INSTALLED.
1 MONTH	INSTALL PRE–FABRICATED BUILDING. DEWATER AS NEEDED PER CONSTRUCTION DETAILS.
2 WEEKS	FINAL GRADE SITE AND CONSTRUCT PAVEMENT SURFACES, CURBING, AND CONCRETE IMPROVEMENTS.
4 DAYS	INSTALL FINAL VEGETATION AND SEEDING.
3 DAYS	FINAL INSPECTION AND CLEAN UP.
1 DAY	REMOVE TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES.



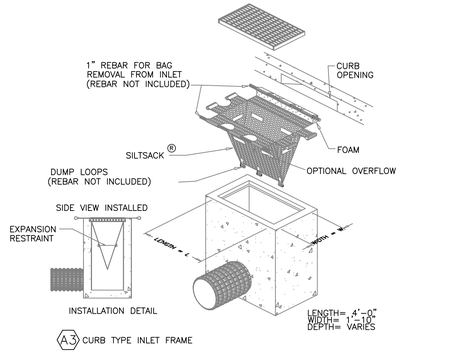
NOTES:
1. BAG MUST BE LOCATED AWAY FROM RECEIVING WATERS AND/OR CONSTRUCTION ACTIVITIES.
2. ALL GROUNDWATER DEWATERING MUST BE DIRECTED TO THE PROPSED DETENTION BASIN BEFORE DISCHARGE TO SITE STORMWATER SYSTEM.

DEWATERING DETAIL

N.T.S.



TEMPORARY SOIL STOCKPILE

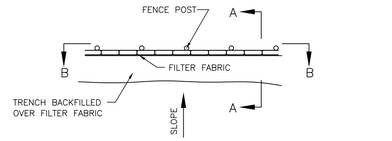


A.3 CURB TYPE INLET FRAME

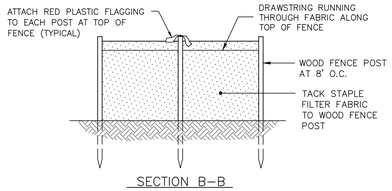
NOTES:
1. THE PROTECT DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM.
2. INSPECTIONS SHALL BE FREQUENT MAINTENANCE, REPAIR, AND REPLACEMENT SHALL BE MADE PROMPTLY, AS NEEDED. THE BARRIER SHALL BE REMOVED WHEN THE AREA DRAINING TOWARDS THE INLET HAS BEEN STABILIZED.

INLET FILTER

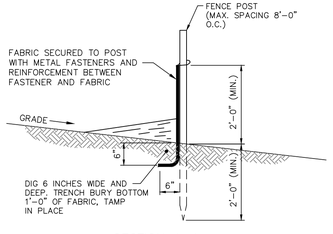
N.T.S.



PLAN



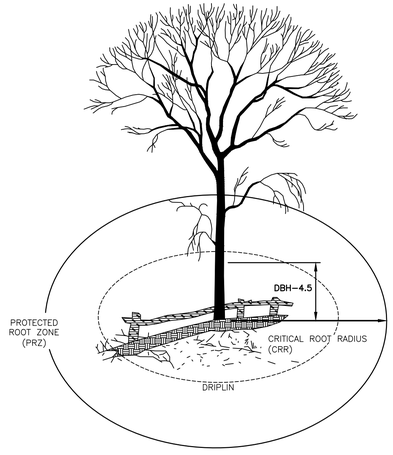
SECTION B–B



SECTION A–A

SILT FENCE DETAIL

N.T.S.



GENERAL NOTES

1. ALL TREES WITHIN 25' OF THE CONSTRUCTION LIMITS SHALL BE PROTECTED FROM DAMAGE.
2. NO BOARDS OR OTHER MATERIALS MAY BE NAILED OR OTHERWISE ATTACHED TO ANY TREE DURING CONSTRUCTION.
3. NO FEEDER ROOTS WITHIN THE PROTECTION ZONE SHALL BE CUT OR DISTURBED.
4. DAMAGED TRUNKS OR ROOTS SHALL HAVE DAMAGED BARK REMOVED IMMEDIATELY. NO TREE PAINT SHALL BE APPLIED. EXPOSED ROOTS SHALL BE COVERED WITH TOPSOIL WHERE DAMAGED, CONTRACTOR SHALL CUT THE ROOT CLEANLY. FOR SERIOUS DAMAGE, A PROFESSIONAL ARBORIST SHALL BE CONSULTED.
5. WHERE NECESSARY, TREE BRANCHES SHALL BE PRUNED TO NATURAL TARGETS.
6. TO DETERMINE THE CRITICAL ROOT RADIUS, OR PROTECTION ZONE, THE SUBJECT TREE SHALL BE MEASURED 4.5' ABOVE GRADE ON THE UPHILL SIDE OF THE TREE. FOR YOUNG, HEALTHY, AND TOLERANT SPECIES, 1' PROTECTION RADIUS SHALL BE PROVIDED FOR EACH INCH OF TREE TRUNK DIAMETER. FOR OLDER, STRESSED, OR SENSITIVE SPECIES, 1.5" OF PROTECTION RADIUS SHALL BE PROVIDED FOR EACH INCH OF TRUNK DIAMETER.
7. TREE PROTECTION FENCING SHALL BE INSTALLED AT THE LIMIT OF THE CRITICAL ROOT RADIUS.

TREE PROTECTION DURING CONSTRUCTION

N.T.S.

NO.	DATE	REVISIONS	BY	CHKD

JASON WORTH, P.E.
TOWNSHIP ENGINEER

STATE OF NEW JERSEY · JASON A. WORTH · 24GE04928700 · LICENSED PROFESSIONAL ENGINEER

LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE No. GE49287

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DEPARTMENT OF PUBLIC WORKS FACILITY IMPROVEMENTS
LITTLE EGG HARBOR TOWNSHIP, OCEAN COUNTY, NEW JERSEY

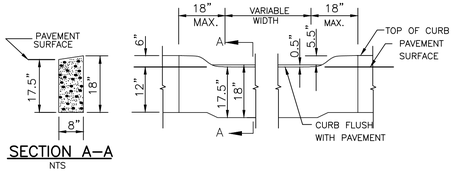
SOIL EROSION AND SEDIMENT CONTROL DETAILS

YOUR GOALS. OUR MISSION.
1144 HOOPER AVENUE, SUITE 202
TOMS RIVER, NJ 08753
TEL 732-473-3400
FAX 732-473-3408
www.tandmassociates.com
NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION 24GA27987500
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DESIGNED BY RW	DRAWING SED-2
CHECKED BY JW	
DRAWN BY DEL	SHEET 12
DATE 10/7/2026	OF 37
SCALE AS NOTED	
PROJ. NO. LEHT01952	

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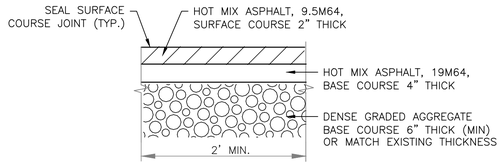


SECTION A–A
NTS

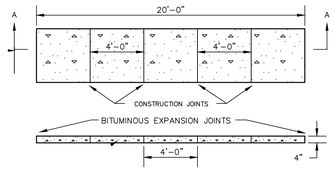
CONSTRUCTION NOTES:

CONTRACTOR TO CURE AND SEAL FLUSH CURB. PRODUCT TO BE PROVIDED TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL.

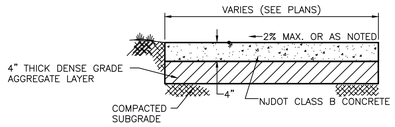
FLUSH CURB
NTS



HOT MIX ASPHALT DETAIL
N.T.S.



SECTION A–A



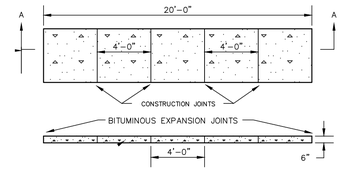
CONSTRUCTION NOTES:

PROVIDE PRE–MOLDED BITUMINOUS EXPANSION JOINT MATERIAL 1/2" THICK CONFORMING TO AASHTO M33, AT 20'–0" INTERVALS. PROVIDE HALF–INCH DEEP CONTRACTION JOINTS AT 4' INTERVALS BETWEEN EXPANSION JOINTS.

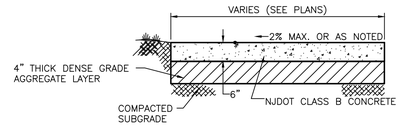
THERE SHALL BE A BROOM FINISH WITH THE EDGES FINISHED WITH A SUITABLE TOOL.

CONTRACTOR TO CURE AND SEAL SIDEWALK. PRODUCT TO BE PROVIDED TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL.

CONCRETE SIDEWALK
N.T.S.



SECTION A–A



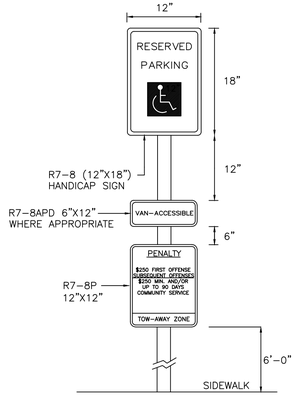
CONSTRUCTION NOTES:

PROVIDE PRE–MOLDED BITUMINOUS EXPANSION JOINT MATERIAL 1/2" THICK CONFORMING TO AASHTO M33, AT 20'–0" INTERVALS. PROVIDE HALF–INCH DEEP CONTRACTION JOINTS AT 4' INTERVALS BETWEEN EXPANSION JOINTS.

THERE SHALL BE A BROOM FINISH WITH THE EDGES FINISHED WITH A SUITABLE TOOL.

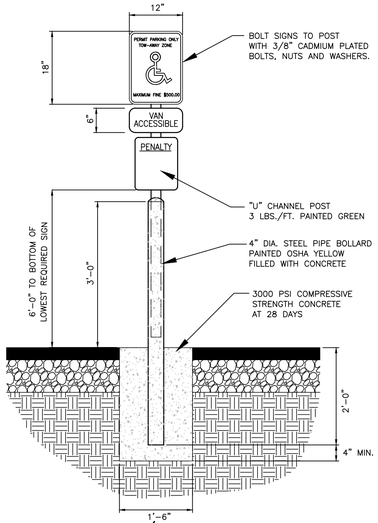
CONTRACTOR TO CURE AND SEAL STAIR AND RAMP LANDING. PRODUCT TO BE PROVIDED TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL.

CONCRETE STAIR AND RAMP LANDING
N.T.S.

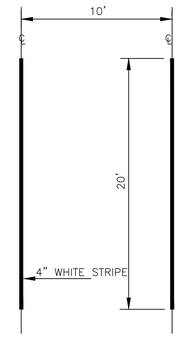


ACCESSIBLE PARKING SIGN
N.T.S.

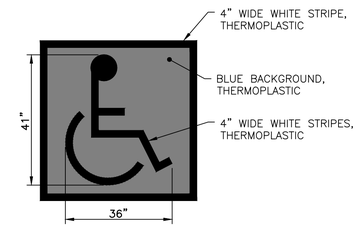
1. ALL SIGNS TO BE 0.080" THICK ALUMINUM
2. ALL SIGNS SHALL CONFORM WITH ALL CURRENT A.D.A., FEDERAL, STATE AND LOCAL CODES AND REGULATIONS.
3. PLACE "VAN ACCESSIBLE" SIGN IN FRONT OF VAN ACCESSIBLE SPACES ONLY.



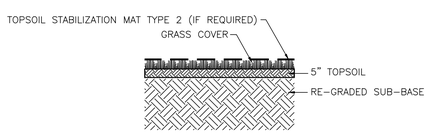
SIGN POST/BOLLARD DETAIL
N.T.S.



TYP. PARKING STRIPE
N.T.S.



INTERNATIONAL SYMBOL OF ACCESSIBILITY PAVEMENT MARKING
N.T.S.

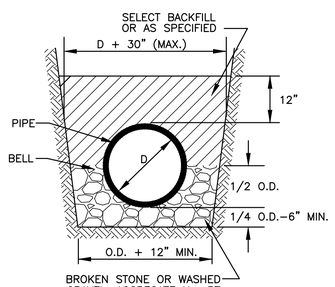


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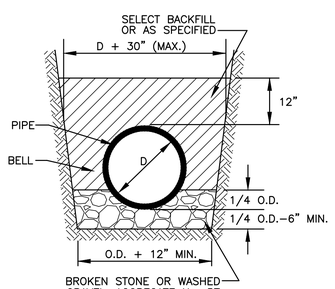
1. TOPSOIL TO BE FERTILIZED, LIMED, SEEDED AND MULCHED IN ACCORDANCE WITH NJDOT SPECIFICATIONS AND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NJ.
2. CONTRACTOR IS RESONSIBLE FOR PROVIDING IRRIGATION.
3. SEED, FERTILIZER AND LIME ARE TO BE IN ACCORDANCE WITH STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NJ AND SESC PLAN (SEE PLAN). ALL DISTURBED AREAS MUST BE STABILIZED IN ACCORDANCE WITH THE SESC PLAN.
4. AREAS OF STEEP SLOPES ARE SHOWN TO RECIEVE TOPSOIL STABILIZATION MAT. SEE PLAN FOR LOCATION. STABILIZATION MAT SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
5. WIDTH SHALL BE AS REQUIRED, 3' TYPICAL.
6. NO SEPARATE PAYMENT FOR REGRADING UNLESS SPECIFICALLY CALLED FOR ON PLANS.

TURF REPAIR DETAIL

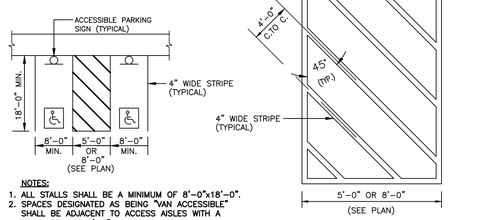
GENERAL SURFACE RESTORATION DETAILS
NOT TO SCALE



PVC BEDDING
NOT TO SCALE



DIP BEDDING
NOT TO SCALE



NOTES:
1. ALL STALLS SHALL BE A MINIMUM OF 8'–0"x18'–0".
2. SPACES DESIGNATED AS BEING "VAN ACCESSIBLE" SHALL BE ADJACENT TO ACCESS AISLES WITH A MIN. WIDTH OF 8'–0".
3. PROPOSED STRIPING SHALL BE BLUE IN COLOR.

ACCESSIBLE PARKING STRIPING LAYOUT
NOT TO SCALE

STRIPING DETAIL IN ACCESS AISLE

PROJECT INFORMATION:
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FILE NAME: LEHTD1952 - SHEET14 - CSD.dwg
LAST SAVED DATE AND TIME: Oct 07 2026, 9:17AM
LAST SAVE BY: dlamphere

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NO.	DATE	REVISIONS	BY	CHKD

JASON WORTH, P.E.
TOWNSHIP ENGINEER

STATE OF NEW JERSEY · JASON A. WORTH · 24GE04928700 · LICENSED PROFESSIONAL ENGINEER

LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE No. GE49287

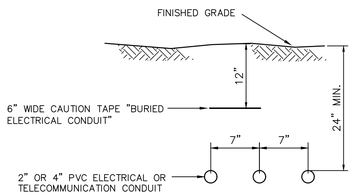
LITTLE EGG HARBOR TOWNSHIP
DEPARTMENT OF PUBLIC WORKS FACILITY IMPROVEMENTS
LITTLE EGG HARBOR TOWNSHIP, OCEAN COUNTY, NEW JERSEY

CONSTRUCTION DETAILS

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TEL 732-473-3400
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www.tandmassociates.com
NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION 24GA27987500

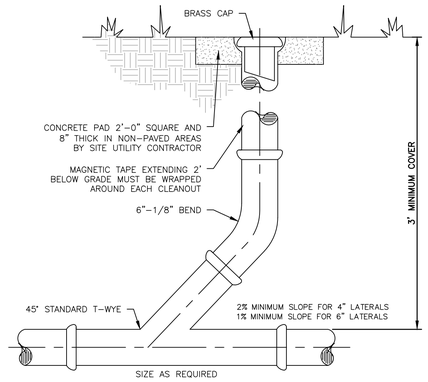
OFFICES LOCATED IN:
CALIFORNIA, INDIANA, KENTUCKY, MASSACHUSETTS, MICHIGAN, NEW JERSEY, OHIO AND PENNSYLVANIA

DESIGNED BY	RW
CHECKED BY	JW
DRAWN BY	DEL
DATE	10/7/2026
SCALE	AS NOTED
PROJ. NO.	LEHT01952
DRAWING	CSD-1
SHEET	13 OF 37



NOTE: TO BE USED FOR ELECTRICAL AND TELECOMMUNICATIONS CONDUIT UNDERNEATH GRASSED AREAS

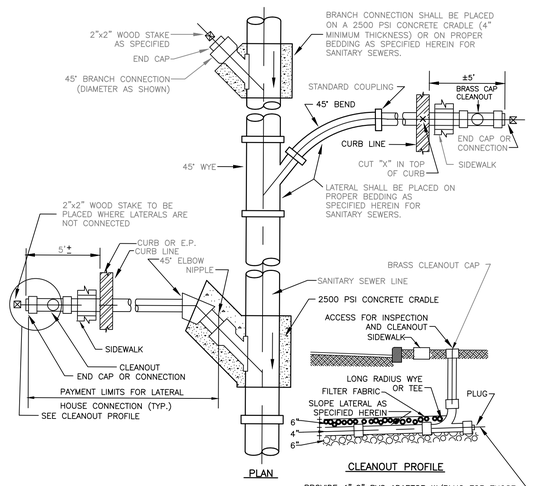
UNDERGROUND CONDUIT BURIAL DETAILS
N.T.S.



GENERAL NOTE

1. CLEANOUTS LOCATED IN DRIVEWAYS, PARKING LOTS, OR OTHER PAVED AREAS SHALL BE COVERED WITH A CAMPBELL MODEL #4155 MONUMENT BOX.

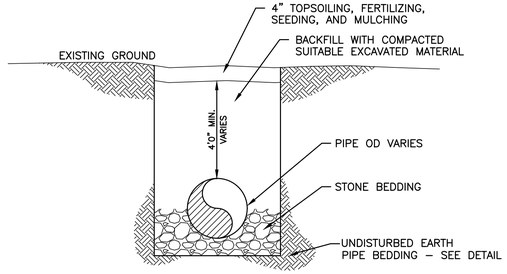
CLEANOUT DETAIL
N.T.S.



CONSTRUCTION NOTES:

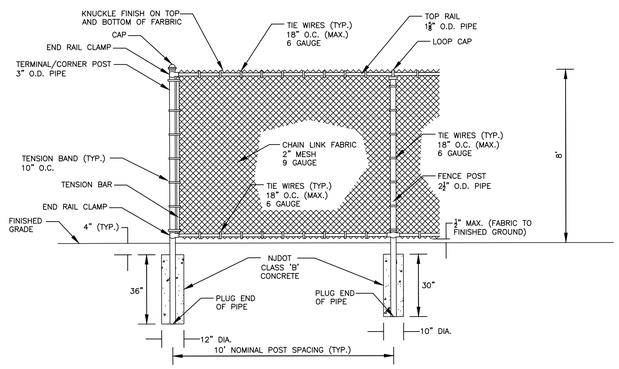
1. DETAIL SHOWS CONSTRUCTION OF A "BRANCH CONNECTION" AND OF TWO DIFFERENT TYPES OF "LATERAL HOUSE CONNECTION". TYPE CONNECTION IS AT CONTRACTOR'S OPTION.
2. SIZE OF LATERAL TO BE AS SHOWN ON THE PLANS OR AS DIRECTED, 4" MINIMUM.
3. CLEAN-OUTS IN DRIVEWAYS SHALL BE COVERED WITH A MONUMENT BOX – CAMPBELL PATTERN NO. 4155 OR EQUAL.
4. WHERE HOUSE CONNECTIONS ARE TO BE CONSTRUCTED AT DEPTHS 15 FT. AND GREATER AT THE DIRECTION OF THE ENGINEER .THE LATERAL MAY BE EXTENDED 15 FT. BEYOND THE CLEANOUT.

SANITARY SEWER SERVICE CONNECTION
NOT TO SCALE



TRENCH REPAIR OFF ROAD
NOT TO SCALE

- ALL POSTS, RAILS, SLEEVES, TENSION BARS, RAIL CLAMPS, TENSION BANDS, POST CAPS, TIE WIRES, RAIL ENDS, AND ALL OTHER HARDWARE SHALL BE COLOR COATED, BLACK FOR ALL FENCES AND GATES.
- ALL CHAIN LINK FABRIC SHALL BE EXTRUDED AND BONDED BLACK VINYL COATED FOR ALL FENCES AND GATES.



NOTES:

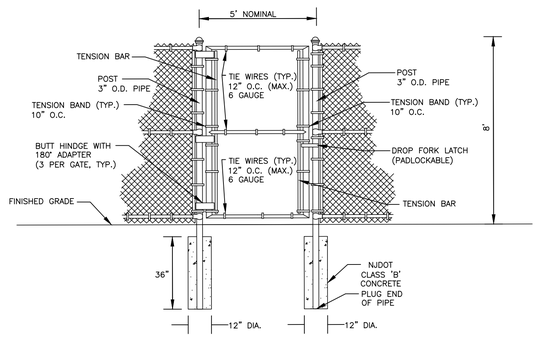
1. CHAIN-LINK FENCE FABRIC, POSTS, RAILS, TIES, BANDS, BARS, RODS, AND OTHER FITTING AND HARDWARE SHALL CONFORM TO AASHTO M 181 AND THE SPECIFICATIONS CONTAINED BELOW:

LOCATION	TERMINAL, CORNER AND GATE	LINE POSTS	RAILS
SPECIFIED DIAMETER (O.D.)	3"	2"	1⅝"
ACTUAL OUTSIDE DIAMETER	2.875"	2.375"	1.660"
MINIMUM POST LENGTH	9'-6"	8'-10"	N/A
WALL THICKNESS	0.160"	0.130"	0.111"

2. ALL CHAIN LINK POSTS, RAILS AND FRAMEWORK SHALL BE TYPE SS40, AS MANUFACTURED BY ALLIED TUBE AND CONDUIT OR APPROVED EQUIVALENT.
3. FENCE SHALL CONTAIN A TOP AND BOTTOM RAIL.
4. BOTTOM OF FENCE IS TO BE NO MORE THAN 2" FROM FINISHED GRADE.
5. FABRIC IS TO BE 9 GAUGE GALVANIZED CHAIN LINK WITH A 2" MESH AND SHALL BE BLACK VINYL COATED. ALL FABRIC SHALL BE INSTALLED ROAD SIDE OF ALL FENCE POSTS AND RAILS.
6. ALL CHAIN LINK POSTS, RAILS, FRAMEWORK, FASTENERS AND FITTINGS SHALL BE BLACK POWDER COATED. FENCE TO BE BLACK VINYL CHAIN LINK SECURITY FENCE WITH 2" PRIVACY SLATS.
7. THERE SHALL BE NO SEPARATE PAYMENT FOR FOOTINGS, ALL COSTS SHALL BE INCLUDED IN THE LINEAR FOOT COST OF THE FENCE.

CHAIN-LINK FENCE, 8' HIGH
NOT TO SCALE

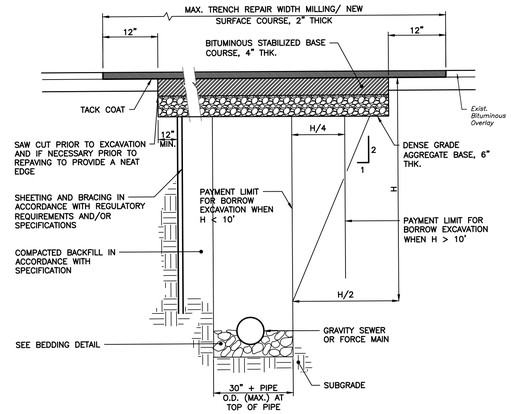
- ALL POSTS, RAILS, SLEEVES, TENSION BARS, RAIL CLAMPS, TENSION BANDS, POST CAPS, TIE WIRES, RAIL ENDS, AND ALL OTHER HARDWARE SHALL BE COLOR COATED, BLACK FOR ALL FENCES AND GATES.
- ALL CHAIN LINK FABRIC SHALL BE EXTRUDED AND BONDED BLACK VINYL COATED FOR ALL FENCES AND GATES.



NOTES:

1. CHAIN-LINK FENCE FABRIC, POSTS, RAILS, TIES, BANDS, BARS, RODS, AND OTHER FITTING AND HARDWARE SHALL CONFORM TO AASHTO M 181.
2. ALL CHAIN LINK POSTS, RAILS AND FRAMEWORK SHALL BE TYPE SS40, AS MANUFACTURED BY ALLIED TUBE AND CONDUIT OR APPROVED EQUIVALENT. VERTICAL MEMBERS SHALL BE 2" O.D. AND HORIZONTAL MEMBERS SHALL BE 1⅝" O.D.
3. BOTTOM OF FENCE IS TO BE NO MORE THAN 2" FROM FINISHED GRADE.
4. FENCE TO BE BLACK VINYL CHAIN LINK SECURITY FENCE WITH 2" PRIVACY SLATS AND SHALL FACE AS DIRECTED.
5. GATE SHALL CONTAIN THREE (3) HORIZONTAL RAILS (TOP, BOTTOM AND MIDDLE) SPACED APPROXIMATELY THREE FEET (3') APART.
6. GATE HINGE SHALL ALLOW GATES TO OPEN 180 DEGREES.
7. GATE SHALL HAVE A DROP FORK LATCH WHICH IS CAPABLE OF BEING LOCKED BY A PAD LOCK.
8. GATE DIMENSIONS SHOWN MAY VARY. IN NO CASE SHALL THE CLEAR OPENING BETWEEN POSTS BE LESS THAN FOUR FEET WHEN THE GATE IS FULLY OPENED.
9. THERE SHALL BE NO SEPARATE PAYMENT FOR FOOTINGS, ALL COSTS SHALL BE INCLUDED IN THE LINEAR FOOT COST OF THE FENCE.

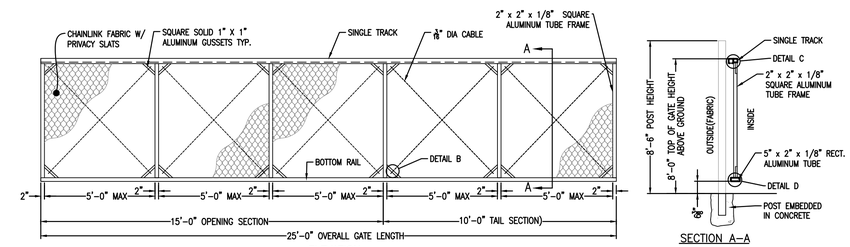
CHAIN-LINK GATE, 5' WIDE X 8' HIGH (SINGLE SWING)
NOT TO SCALE

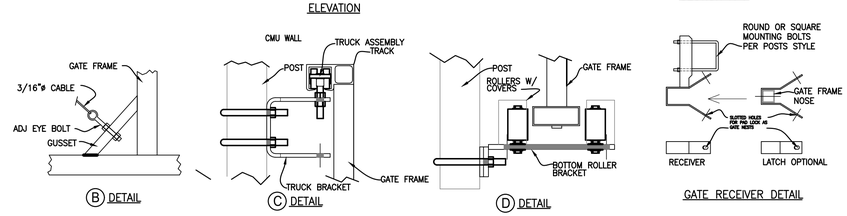


CONSTRUCTION NOTES:

1. MAXIMUM PAYMENT WIDTH FOR BORROW EXCAVATION SHALL BE 30" + PIPE O.D., WHEN PLACED IN A TRENCH WITH DEPTH OF 10' OR LESS TO THE TOP OF THE PIPE. FOR TRENCHES OF GREATER DEPTH, THE MAXIMUM PAYMENT WIDTH FOR BORROW EXCAVATION SHALL BE 30" + PIPE O.D. + H/2.
2. AT MANHOLES BITUMINOUS STABILIZED BASE IS TO BE PLACED 6" BEYOND THE TRENCH LIMIT OR 6" BEYOND THE DAMAGED PAVEMENT BASE COURSE WHICHEVER IS GREATER.
3. ANY SUPERFICIAL SURFACE DAMAGE CAUSED BY THE CONTRACTOR OUTSIDE THE LIMIT SHOWN, SHALL BE MILLED AND PAVED WITH SURFACE COURSE MATERIAL. WHEN THE BASE COURSE OF THE EXISTING PAVEMENT IS DAMAGED BEYOND THE LIMIT SHOWN THE CONTRACTOR SHALL EXCAVATE 6" BEYOND THE DAMAGED AREA AND REPLACE IT WITH BITUMINOUS STABILIZED BASE COURSE. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE PAVEMENT.
4. MAXIMUM PAYMENT WIDTH FOR SURFACE COURSE PAVEMENT SHALL BE THE DISTURBED WIDTH PLUS TWO (2) FEET. IN NO CASE SHALL THE MAXIMUM PAYMENT WIDTH FOR BASE COURSE PAVEMENT REPAIR BE GREATER THAN 30 INCHES + O.D. + H.

TYPICAL TRENCH & PAVEMENT REPAIR
N.T.S.





NOTES:

1. FENCE TO BE BLACK VINYL CHAIN LINK SECURITY FENCE WITH 2" PRIVACY SLATS

SINGLE TRACK CANTILEVER SLIDING GATE DETAIL
N.T.S.

NO.	DATE	REVISIONS	BY	CHKD

JASON WORTH, P.E.
TOWNSHIP ENGINEER

STATE OF NEW JERSEY · JASON A. WORTH · 24GE04928700 · LICENSED PROFESSIONAL ENGINEER

LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE No. GE49287

LITTLE EGG HARBOR TOWNSHIP
DEPARTMENT OF PUBLIC WORKS FACILITY IMPROVEMENTS
LITTLE EGG HARBOR TOWNSHIP, OCEAN COUNTY, NEW JERSEY

CONSTRUCTION DETAILS

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CHECKED BY	JW
DRAWN BY	DEL
DATE	10/7/2026
SCALE	AS NOTED
PROJ. NO.	LEHT01952
DRAWING	CSD-2
SHEET	14 OF 37

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