

Existing Features Legend

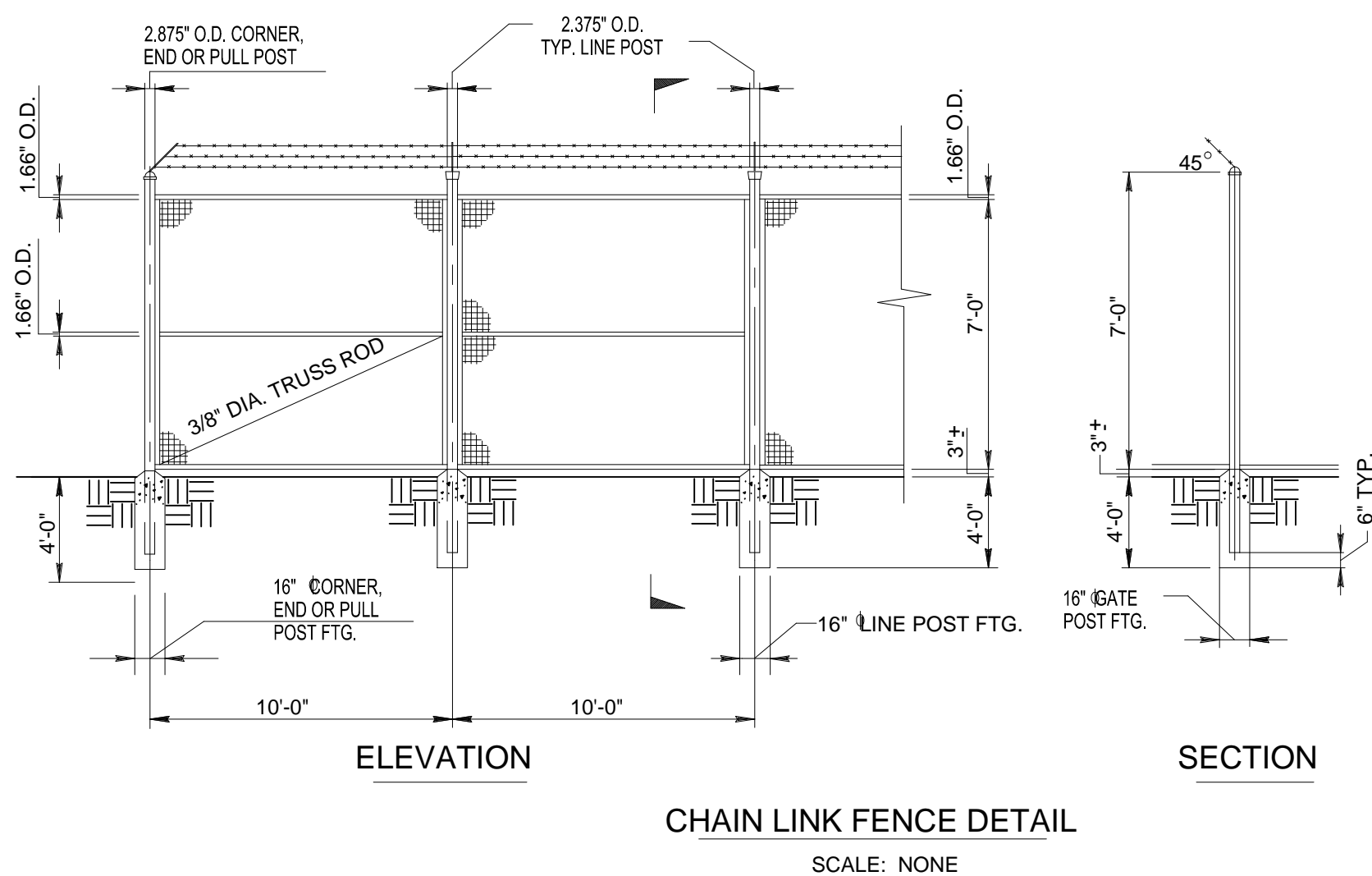
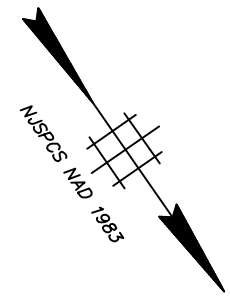
- UTILITY POLE
- GUY WIRE
- SIGN
- A/C UNIT
- CHAIN LINK FENCE
- WOODSLINE

LEGEND

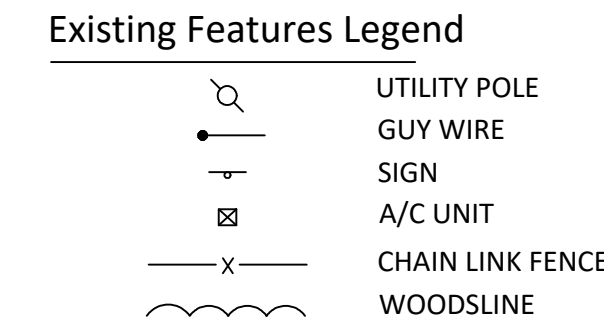
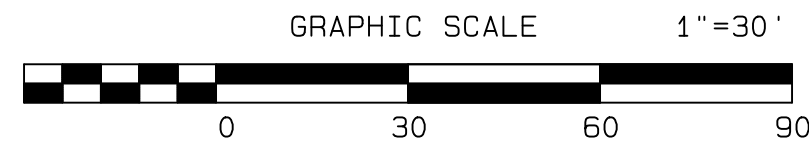
- MONUMENT FOUND
- PIN/CAP FOUND
- IRON PIPE FOUND
- NAIL FOUND
- PK NAIL FOUND
- STONE FOUND
- PIN/CAP SET
- MONUMENT SET
- PK & DISC SET
- FILED MAP LOT #
- TEST PIT LOCATION



Scale		Date	
As Noted		2024.05.14	
Drawing Name			
EXISTING CONDITIONS			
Township of Jackson Ocean County, New Jersey		280 FARADAY AVENUE	
Block 22112, Lot 2		Proposed: Use Variance	
1670 ROUTE 24, SUITE 3A WALLINGFORD, NJ 07727 TEL: 732.282.0014 FAX: 732.282.1102 WWW.3DENGINEERING.COM			
Designed	LD	Drawn	LD
Checked	DC	Approved	LD
LINO DEALMEIDA III LICENSED PROFESSIONAL ENGINEER STATE OF NEW JERSEY LICENSE NO. GE49375			
New Jersey State Board of Professional Engineers and Land Surveyors Certificate of Authorization No. 24G42820200		3D Engineering & Construction assumes no liability for the use of this drawing by anyone other than the person(s) who originally contracted the work.	
2026.01.22		2025.05.12	
2024.11.06		2024.11.06	
Revision		By	
1		LD	
2		LD	
3		LD	



A circular stamp divided horizontally. The top half contains the number '2' and the text 'Sheet No.'. The bottom half contains the number '7' and the text 'Total Sheets'.



- LEGEND**
- MONUMENT FOUND
 - PIN/CAP FOUND
 - ⊗ IRON PIPE FOUND
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 - ⊕ TEST PIT LOCATION

SOIL LOG PIT NO. 1

DATE: 06/21/2024

DATE: 06/21/2024

0" - 6"

0"	-	6"	BROWN (7.5YR 4/4) - SANDY LOAM; 5% GRAVEL, NO MOTTLES, VERY FINE, SUBANGULAR BLOCKY; DRY & SOFT. SOME ROOTS.
6"	-	24"	DARK YELLOWISH/BROWN (10YR 4/6) - SANDY LOAM; 5% GRAVEL, NO MOTTLES, VERY FINE, SUBANGULAR BLOCKY; DRY & SOFT.
24"	-	72"	DARK YELLOWISH/BROWN (10YR 4/6) - SANDY LOAM; 10% GRAVEL, NO MOTTLES, VERY FINE, SUBANGULAR BLOCKY; DRY & SOFT.

ONE SOIL SAMPLE TAKEN FROM THE PIT FOR TUBE PERMEAMETER TEST.
SOIL SAMPLE TAKEN AT 24".

SOIL LOG PIT NO. 2

DATE: 06/21/2024

0"	-	6"	DARK YELLOWISH/BROWN (10YR 4/6) – SANDY LOAM; <5% GRAVEL, NO MOTTLES; VERY FINE, SUBANGULAR BLOCKY; DRY & SOFT, SOME ROOTS.
6"	-	24"	DARK YELLOWISH/BROWN (10YR 4/6) – SANDY LOAM; <5% GRAVEL, NO MOTTLES; VERY FINE, SUBANGULAR BLOCKY; DRY & SOFT.
24"	-	72"	DARK YELLOWISH/BROWN (10YR 4/6) – SANDY LOAM; <5% GRAVEL, NO MOTTLES; VERY FINE, SUBANGULAR BLOCKY; DRY & SOFT.

ONE SOIL SAMPLES TAKEN FROM THE PIT FOR TUBE PERMEAMETER TEST.
SOIL SAMPLE TAKEN AT 24".

TUBE PERMEAMETER TEST RESULTS

TEST PIT / SAMPLE	DEPTH OF SAMPLE	SOIL TYPE	LOWEST PERMEABILITY (INCH/HOUR)
1	24"	K4	7.1
2	24"	K4	17.0



- NOTES:**
1. CLIENT/APPLICANT TO HAVE A TEST PIT PERFORMED AND SOIL CEMENTABILITY DETERMINED TO DETERMINE THAT THE UNDERLYING SOIL CONTENT IS SUITABLE FOR A RAIN GARDEN APPLICATION.
 2. BOTTOM OF RAIN GARDEN TO BE SURFACED WITH A COMBINATION IS SUITABLE FOR MULCH, AND 1" - 1.5" WASHED DELAWARE GRAVEL. LOCAL BOULDERS MAY ALSO BE ADDED FOR ACCENT AND INTEREST.
 3. THE PREFERRED AMENDED SOIL CONTENT MIXTURE SHALL BE AS FOLLOWS: 50% SAND, 25% SOIL, 25% COMPOST.
 4. AMENDED SOIL MIXTURE TO BE PROVIDED TO AN 18" DEPTH WITH 6" OF TOP SOIL AND MULCH GRAVEL ABOVE.

LANDSCAPE SCHEDULE

SYMBOL	QUANTITY	SCIENTIFIC NAME	COMMON NAME	SIZE/COND.
AN	0	ASTER NOVEA	NEW ENGLAND ASTER	2 GAL.
PV	0	PANICUM VIRGATUM	SWITCH GRASS	2 GAL.
EP	0	ECHINACEA "PURPLE"	PURPLE CONEFLOWER	2 GAL.
IS	0	IRIS SIBERICA	SIBERIAN IRIS	2 GAL.



SCALE: NTS

[illegible]

New Jersey State Board of
Professional Engineers and
Land Surveyors Certificate of
Authorization
No. 24CA28208200

LINO DEALMEIDA III
 LICENSED PROFESSIONAL ENGINEER
 STATE OF NEW JERSEY LICENSE NO. GE49375

Designed LD
Drawn LD
Checked DC
Approved LD

**Engineering
& Construction**

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WALL TOWNSHIP, NJ 07727
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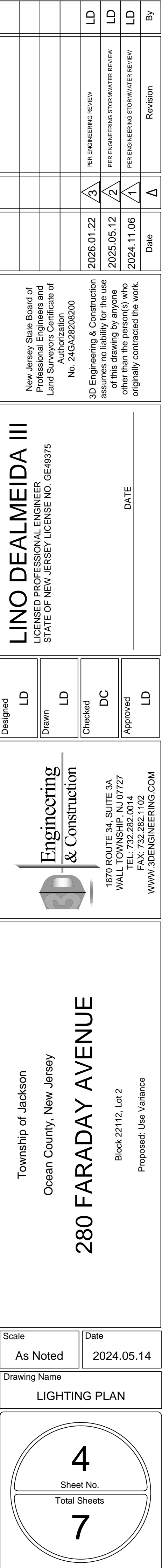
Township of Jackson
Ocean County, New Jersey
280 FARADAY AVENUE

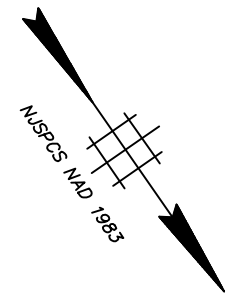
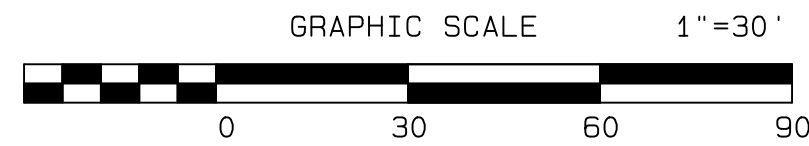
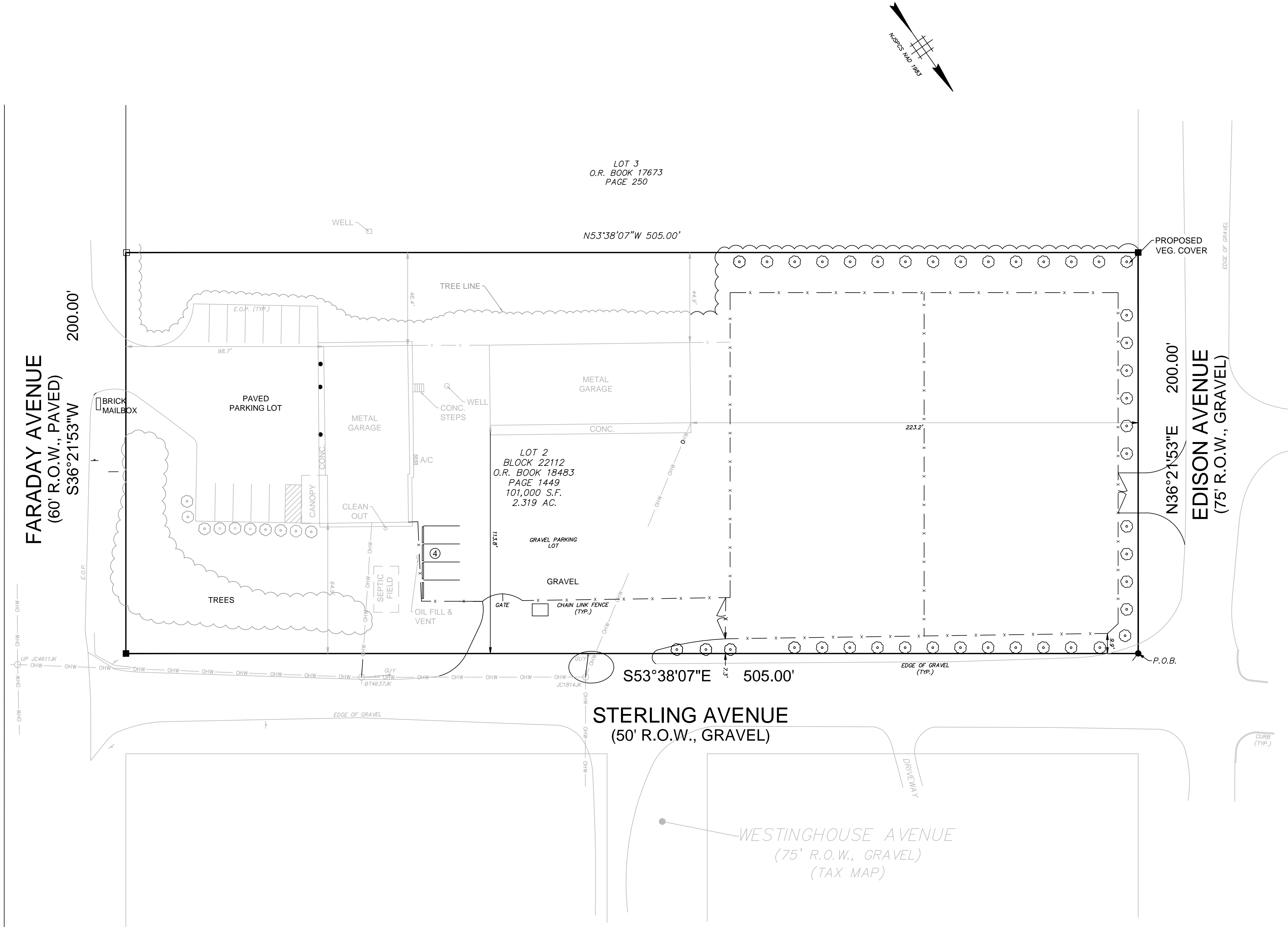
Scale	Date
As Noted	2024.05.14

Drawing Name

GRADING PLAN







Existing Features Legend

- UTILITY POLE
- GUY WIRE
- SIGN
- A/C UNIT
- CHAIN LINK FENCE
- WOODSLINE

LEGEND

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SEED SPECIFICATION

- PRIOR TO SEEDING, MIX TOP 6" LAYER OF TOPSOIL WITH FERTILIZER AND LIME. 10-20-10 FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 S.F. LIME SHALL BE APPLIED IN ACCORDANCE WITH THE FOLLOWING CHART:

SOIL TEXTURE	TONS/ACRE	LBS/1,000 S.F.
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

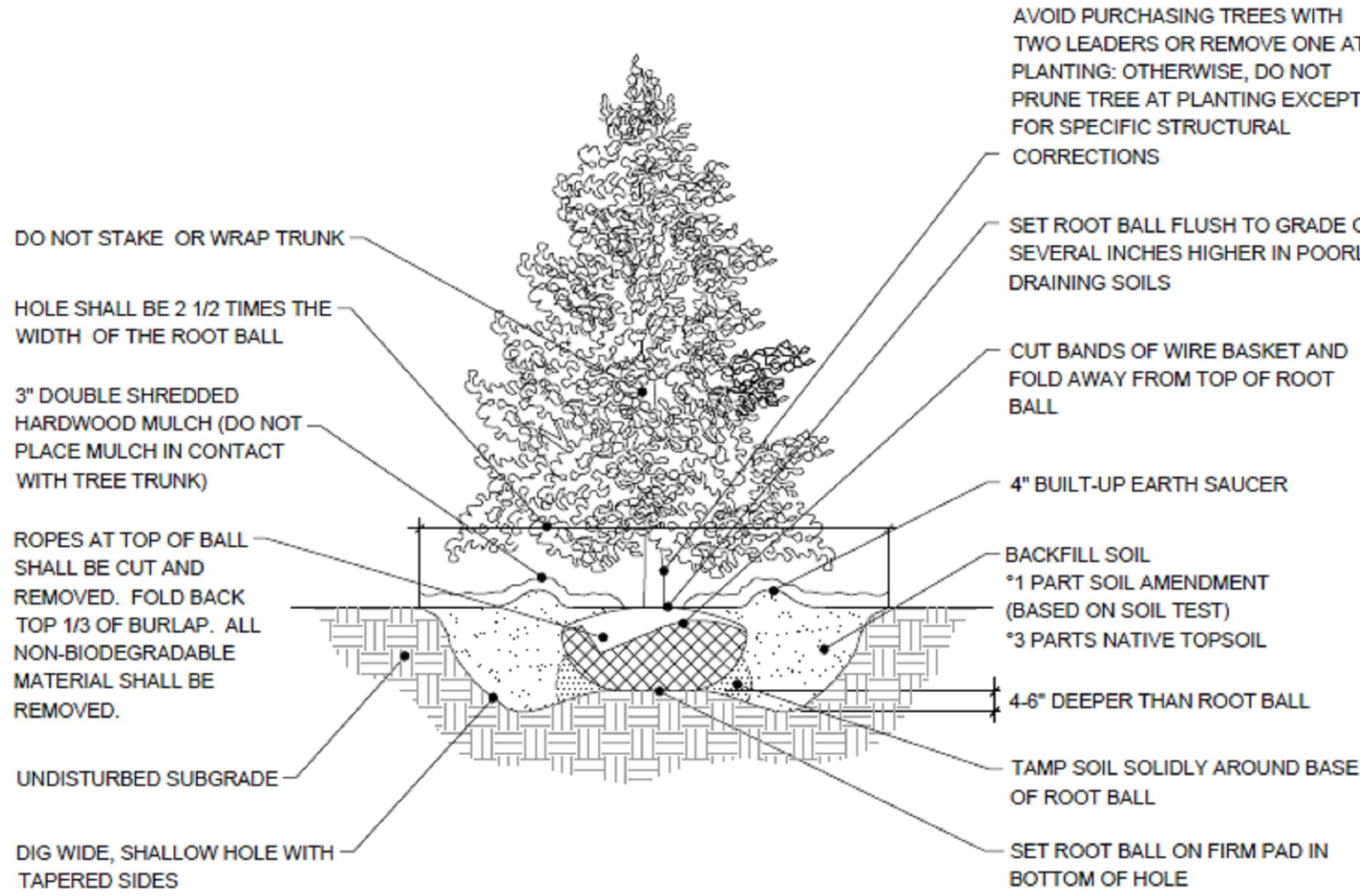
ABOVE APPLICATIONS RATES FOR FERTILIZER AND LIME ARE STANDARD RATES AND SHALL BE ADJUSTED BASED ON SITE SPECIFIC SOIL TESTS.

- TOPSOIL SHALL BE TILLED, FINE GRADED, AND RAKED FREE OF ALL DEBRIS LARGER THAN 1" IN DIAMETER. ALL LAWN AREAS SHALL BE SLOPED TO DRAIN OR PER THE APPROVED GRADING PLAN.
- CONSULT MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS AND IMPLEMENT AS REQUIRED PRIOR TO APPLICATION OF SEED.

GENERAL LOW MAINTENANCE SEED MIX (#6)		
SEED MIXTURE	LBS/ACRE	LBS/1,000 S.F.
FINE FESCUE (BLEND)	75	2.1
HARD FESCUE		
STRONG CREEPING RED FESCUE	10	.25
KENTUCKY BLUEGRASS	10	.25
PERENNIAL RYEGRASS	5	.10
WHITE CLOVER		

OPTIMAL PLANTING DATES:
ZONE 5B & 6A = 3/15 - 5/31 & 8/1 - 10/1
ZONE 6B = 3/1 - 4/30 & 8/15 - 10/15
ZONE 7A & 7B = 2/1 - 4/30 & 8/15 - 10/30

- MAINTENANCE LEVEL
(B) FREQUENT MOWING (4-7 DAYS), OCCASIONAL FERTILIZATION, LIME AND WEED CONTROL
(C) PERIODIC MOWING (7-14 DAYS), OCCASIONAL FERTILIZATION AND LIME
(D) INFREQUENT OR NO MOWING, FERTILIZATION AND LIME THE FIRST YEAR OF ESTABLISHMENT
- SEED SHALL BE APPLIED IN TWO DIRECTIONS AT RIGHT ANGLES TO EACH OTHER. ONCE APPLIED, FIRM THE SOIL WITH A CORRUGATED LAWN ROLLER TO PROMOTE SEED-TO-SOIL CONTACT.
 - APPLY UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO ALL SEEDED AREAS AT THE RATE OF 1 1/2 - 2 TONS PER ACRE OR 70-90 POUNDS PER 1,000 S.F. SPREAD MULCH SO THAT APPROXIMATELY 85% OF THE SOIL SURFACE IS COVERED. ANCHORING OF MULCH SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE ACCOMPLISHED BY ONE OF THE FOLLOWING METHODS: PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH-BINDER.
 - IRRIGATE NEWLY SEEDED AREAS WITH A MINIMUM OF 1/4 INCH OF WATER TWICE A DAY (NOT DURING PERIODS OF INTENSE SUN) UNTIL VEGETATION IS WELL ESTABLISHED.



NOTES:

- FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL, THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER
- THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
- SOIL AMENDMENTS:
"MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM
"MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX

EVERGREEN TREE PLANTING
SCALE: NONE

Scale

As Noted

Drawing Name

LANDSCAPE PLAN

Scale

As Noted

Drawing Name

LANDSCAPE PLAN

5

Sheet No.

7

Total Sheets

Township of Jackson
Ocean County, New Jersey
280 FARADAY AVENUE
Block 22112, Lot 2
Proposed: Use Variance

Engineering & Construction
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WALLINGFORD, NJ 07727
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WWW.3DENGINEERING.COM

LINO DEALMEIDA III
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW JERSEY LICENSE NO. GE49375

Designed
LD

Drawn
LD

Checked
DC

Approved
LD

New Jersey State Board of Professional Engineers and Land Surveyors Certificate of Authorization
No. 24G4220200
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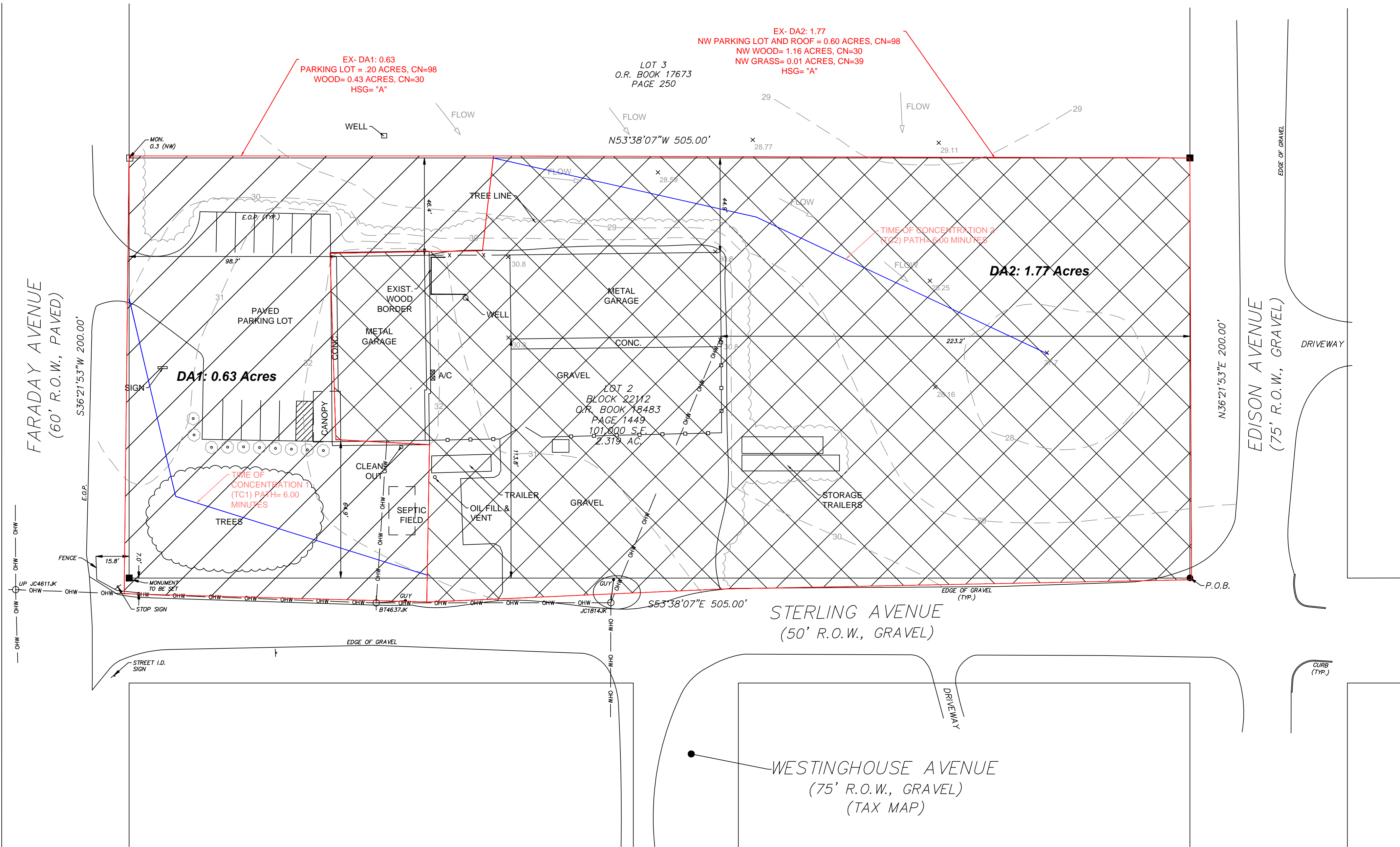
2026.01.22
2025.05.12
2024.11.06

Date

Revision

LD
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LD

By



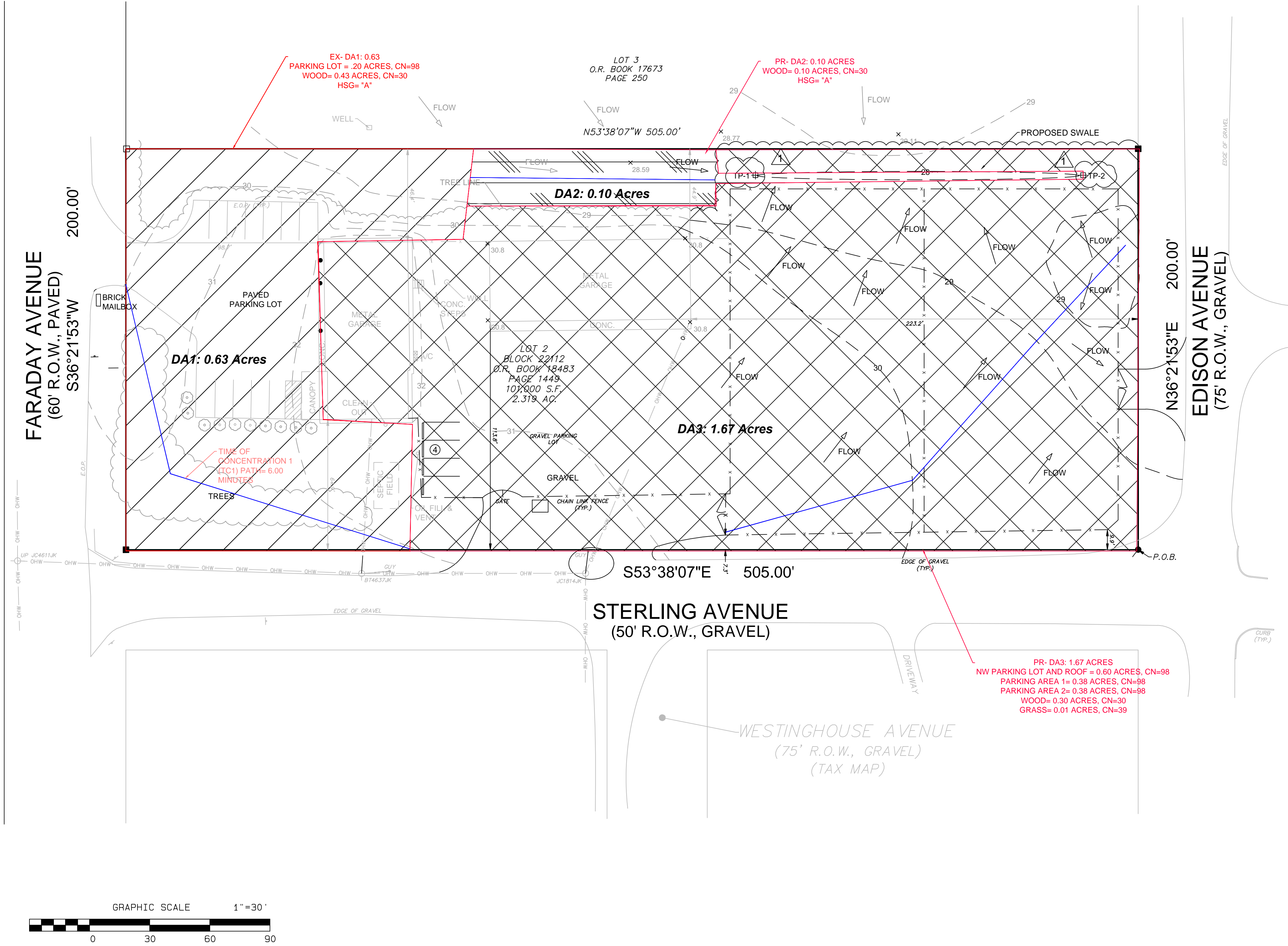
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Scale		Date	
As Noted		2024.05.14	
Drawing Name			
EXIST. DRAINAGE MAP			
Township of Jackson Ocean County, New Jersey		280 FARADAY AVENUE	
Block 22112, Lot 2		Proposed Use Variance	
1670 ROUTE 24, SUITE 3A WALLINGFORD, NJ 07727 TEL: 732.282.0014 FAX: 732.282.1102 WWW.3DENGINEERING.COM		Engineering & Construction 1670 ROUTE 24, SUITE 3A WALLINGFORD, NJ 07727 TEL: 732.282.0014 FAX: 732.282.1102 WWW.3DENGINEERING.COM	
Designed	LD	Drawn	LD
Checked	DC	Approved	LD
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2026.01.22		2025.05.12	
PER ENGINEERING REVIEW		PER ENGINEERING STORMWATER REVIEW	
2024.11.06		2024.11.06	
Revision		By	
Δ		LD	
Δ		LD	
Δ		LD	



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PROP. DRAINAGE PLAN			
Township of Jackson Ocean County, New Jersey		280 FARADAY AVENUE	
Block 22112, Lot 2		Proposed Use Variance	
Engineering & Construction		1670 ROUTE 24, SUITE 3A WALLINGFORD, NJ 07727 TEL: 732.282.0014 FAX: 732.282.1102 WWW.3DENGINEERING.COM	
Designed	LD	Drawn	LD
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PER ENGINEERING REVIEW		PER ENGINEERING STORMWATER REVIEW	
2024.11.06		2024.11.06	
Date		Revision	
By		LD	