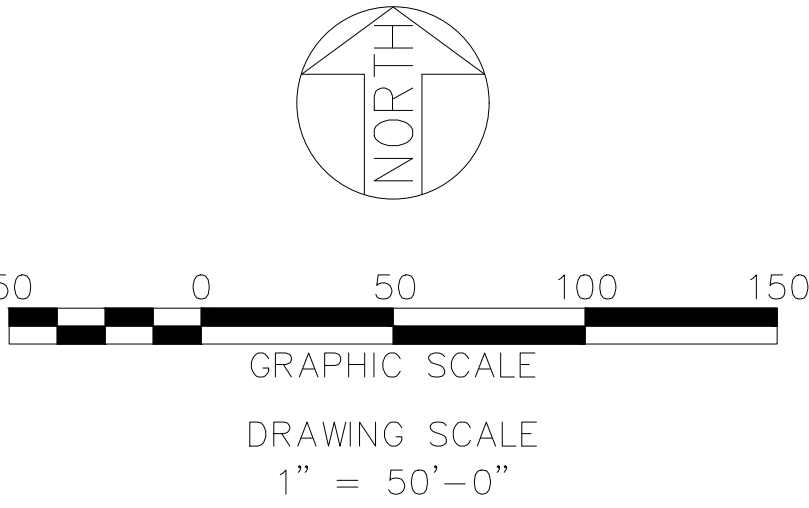


ESTIMATED QUANTITIES (NOTE 2)	
CUT	300 CY
FILL (NOTE 1)	39,730 CY
#1 AND #2 STONE	23,300 CY
FILL VOLUME WITHOUT STONE	16,430 CY

- ESTIMATED QUANTITIES NOTES:
1. FILL QUANTITY IS TOTAL FILL, INCLUDING CRUSHED STONE VOLUME. NO FILL COMPACTION FACTOR IS INCLUDED, AND QUANTITIES DO NOT ACCOUNT FOR ANY TOPSOIL OR UNSUITABLE MATERIAL REMOVAL.
  2. QUANTITIES SHOWN ARE FOR THE SUBSTATION AND ACCESS ROAD PORTION SOUTH OF MUD CREEK.

SARGENT & LUNDY CERTIFICATE  
OF AUTHORIZATION NO. 080442  
(VALID THROUGH 08/31/2021)

PRELIMINARY  
FOR PERMIT ONLY



LEGEND

- 594 EXISTING CONTOUR
- 598 FINISHED GRADE MINOR CONTOUR
- 600 FINISHED GRADE MAJOR CONTOUR
- 6"Ø UNDERDRAIN PIPE (NOTE 7)
- SF SILT FENCE
- X X SITE FENCE
- PROPERTY LINE
- HP HIGH POINT
- B/EL. BOTTOM ELEVATION

NOTES

1. COORDINATE SYSTEM IS NEW YORK STATE PLANE WEST, US FOOT.
2. TOPOGRAPHY FOR THE SITE WAS OBTAINED FROM SAM, LLC. TOPOGRAPHY SOUTH OF EXISTING CREEK CENTERLINE IS FROM DYSINGER EXISTING TOPO.DWG. TOPOGRAPHY NORTH OF EXISTING CREEK CENTERLINE IS FROM MORE ADDITIONAL TOPO FROM POINTS 04-13-20.DWG.
3. 100-YEAR FLOOD PLAIN LIMIT OBTAINED FROM FLOOD INSURANCE RATE MAP NUMBER 36063C00402E AND 36063C00410E.
4. PRIVILEGED AND CONFIDENTIAL ATTORNEY-CLIENT COMMUNICATION / ATTORNEY WORK PRODUCT PREPARED AT THE DIRECTION OF LEGAL COUNSEL.
5. IT IS A VIOLATION OF THE GUIDELINES FOR PROFESSIONAL ENGINEERING PRACTICE IN NEW YORK STATE LAW FOR ANY PERSON TO ALTER THIS DOCUMENT IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.
6. THE OHWM INFORMATION WAS RECEIVED FROM ECOLOGY AND ENVIRONMENT INC. IN A .ZIP FILE TITLED MUDCREEK\_FEATURES\_20191008.ZIP.
7. UNDERDRAIN PIPE SHALL BE PERFORATED DRAIN WITH SOCK, MEETING THE REQUIREMENTS OF ASTM F667 PERFORATED PIPE SHALL BE PLACED WITHIN THE SUBSTATION PERIMETER FENCE EXTENDING 3' BEYOND THE SUBSTATION FENCE. SOLID-WALL PIPE SHALL BE PLACED FROM THE SUBSTATION PAD EDGE TO THE LEVEL SPREADERS.
8. FOR TEMPORARY CONSTRUCTION ENTRANCE DETAIL, REFER TO ECI ENGINEERING SERVICES, P.C. DRAWING EST-D-P002-105, DATED 11/19/19.
9. FOR SILT FENCE DETAIL, REFER TO ECI ENGINEERING SERVICES, P.C. DRAWING EST-D-P002-202, DATED 11/19/19.
10. SARGENT & LUNDY DESIGN SCOPE COVERED BY THE ENGINEERING SEAL IS LIMITED TO THE SUBSTATION AREA AND ACCESS ROAD DESIGN. THE ENGINEERING SEAL DOES NOT COVER THE BRIDGE DESIGN BEING PERFORMED BY CHA COMPANIES.

REFERENCE DRAWINGS

- CHA DRAWINGS
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  - ST-2 GENERAL NOTES ESTIMATE OF QTYS. AND INDEX OF DRAWINGS
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  - ST-8 RAILING DETAILS (1 OF 2)
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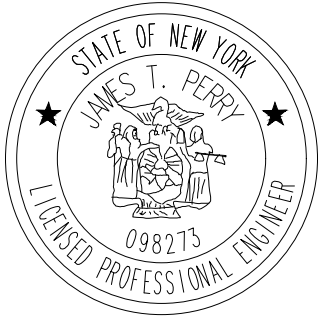
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F	08/11/20	PRELIMINARY RELEASE - ISSUED FOR PERMITS	CAF	JTP	KVP	S&L
E	03/02/20	PRELIMINARY RELEASE - ISSUED FOR PERMITS	CAF	JTP	KVP	S&L
D	12/19/19	PRELIMINARY RELEASE - ISSUED FOR PERMITS	CAF	JTP	KVP	S&L
C	10/25/19	PRELIMINARY RELEASE - ISSUED FOR REVIEW	CAF	JTP	KVP	S&L
B	05/25/18	PRELIMINARY RELEASE - FILING SKETCH	CAF	VBP	KVP	S&L
A	03/30/18	PRELIMINARY RELEASE - FILING SKETCH	CAF	VBP	KVP	S&L

SCALE:	
1"=50'	
0 50	
PREP:	CAF
CHKD:	VBP
APPD:	KVP
DATE:	03/30/2018



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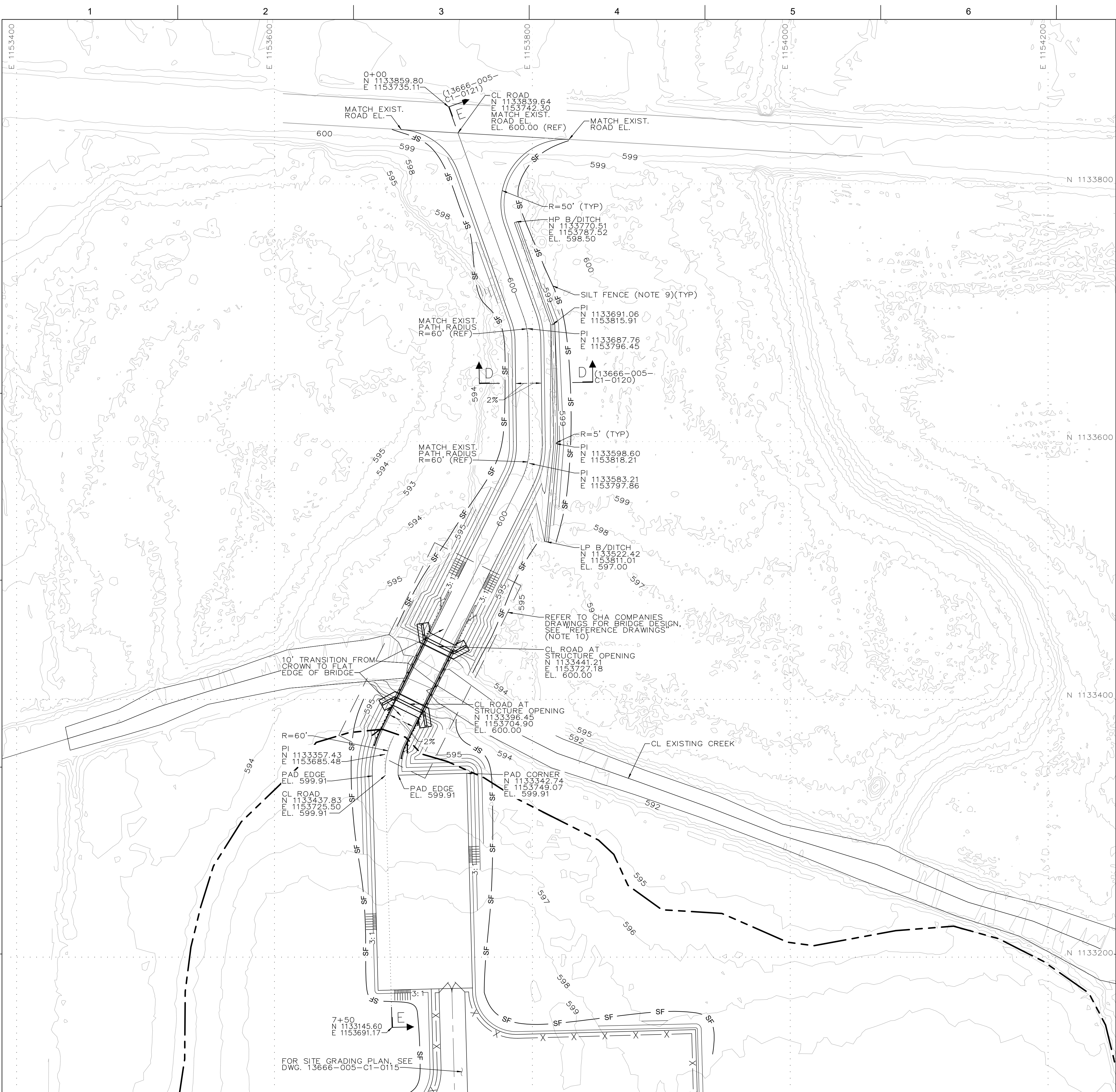
Sargent & Lundy  
55 EAST MONROE ST., CHICAGO, ILL.



NEXTERA ENERGY TRANSMISSION NEW YORK, INC  
EMPIRE STATE LINE  
DYSINGER SWITCHYARD  
SITE GRADING PLAN

13666-005-C1-0115



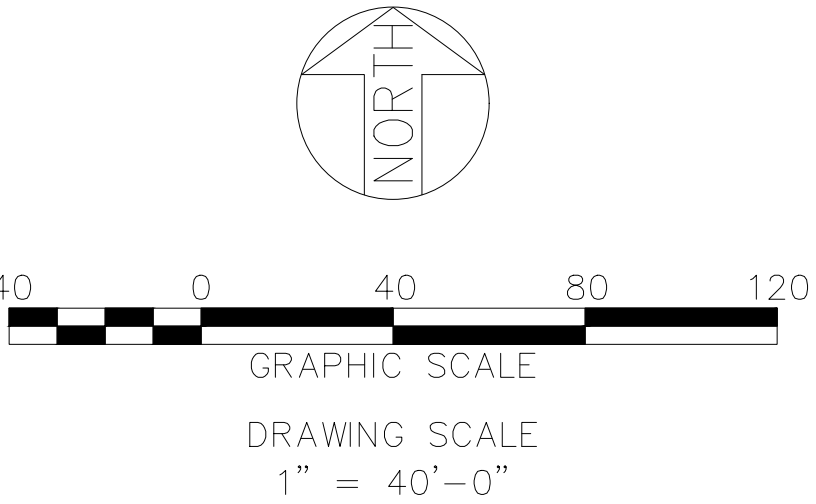


ESTIMATED QUANTITIES (NOTE 2)	
CUT	100 CY
FILL (NOTE 1)	1,500 CY
#1 AND #2 STONE	475 CY
FILL VOLUME WITHOUT STONE	1,025 CY

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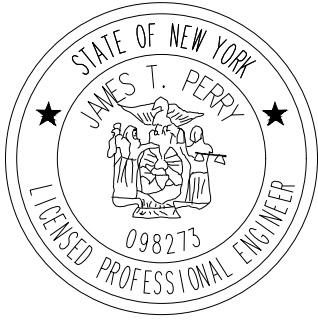
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SCALE:	
1"=40'	
0 40	
PREP:	CAF
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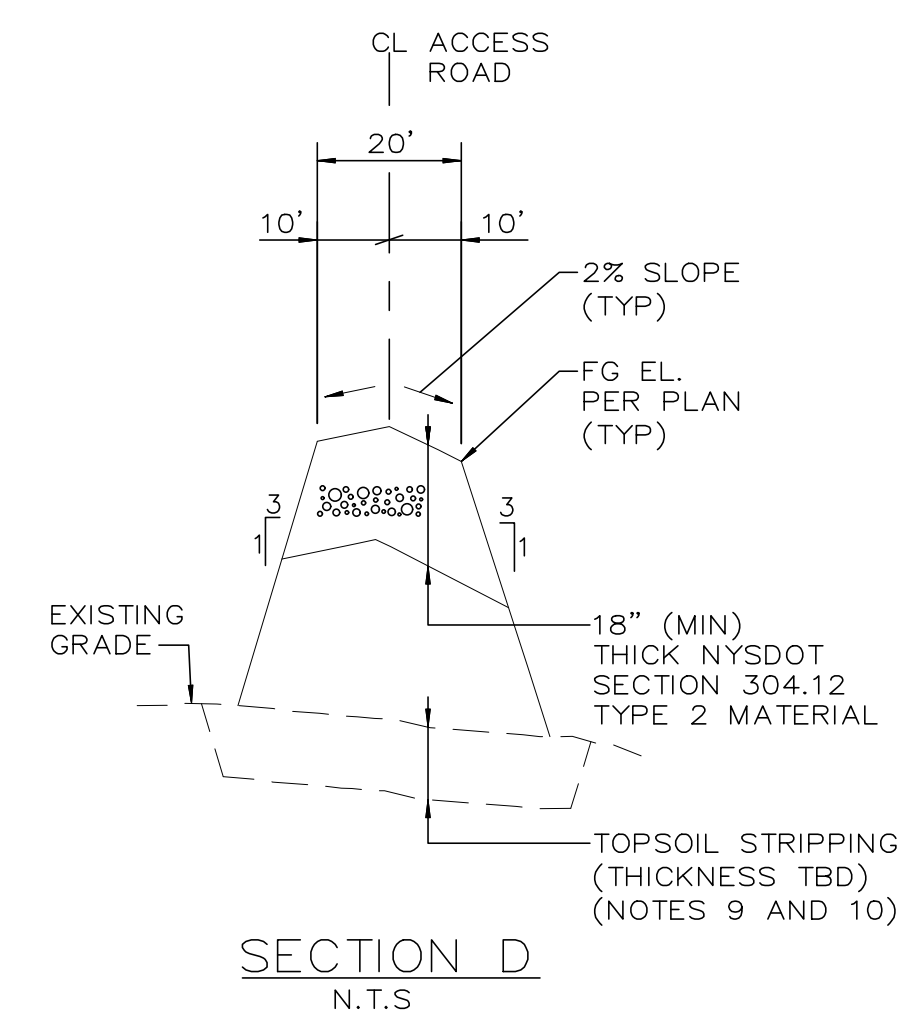
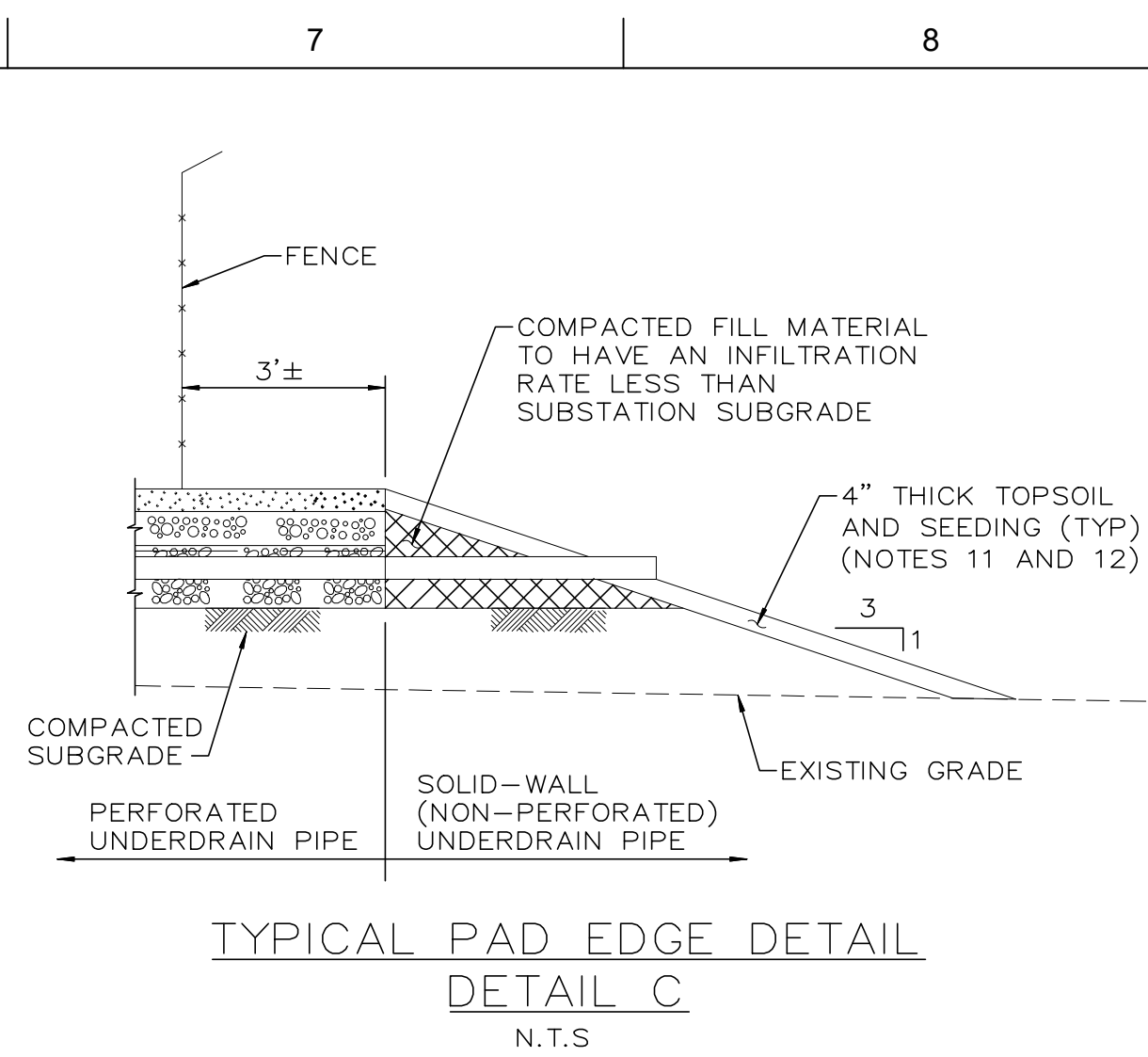
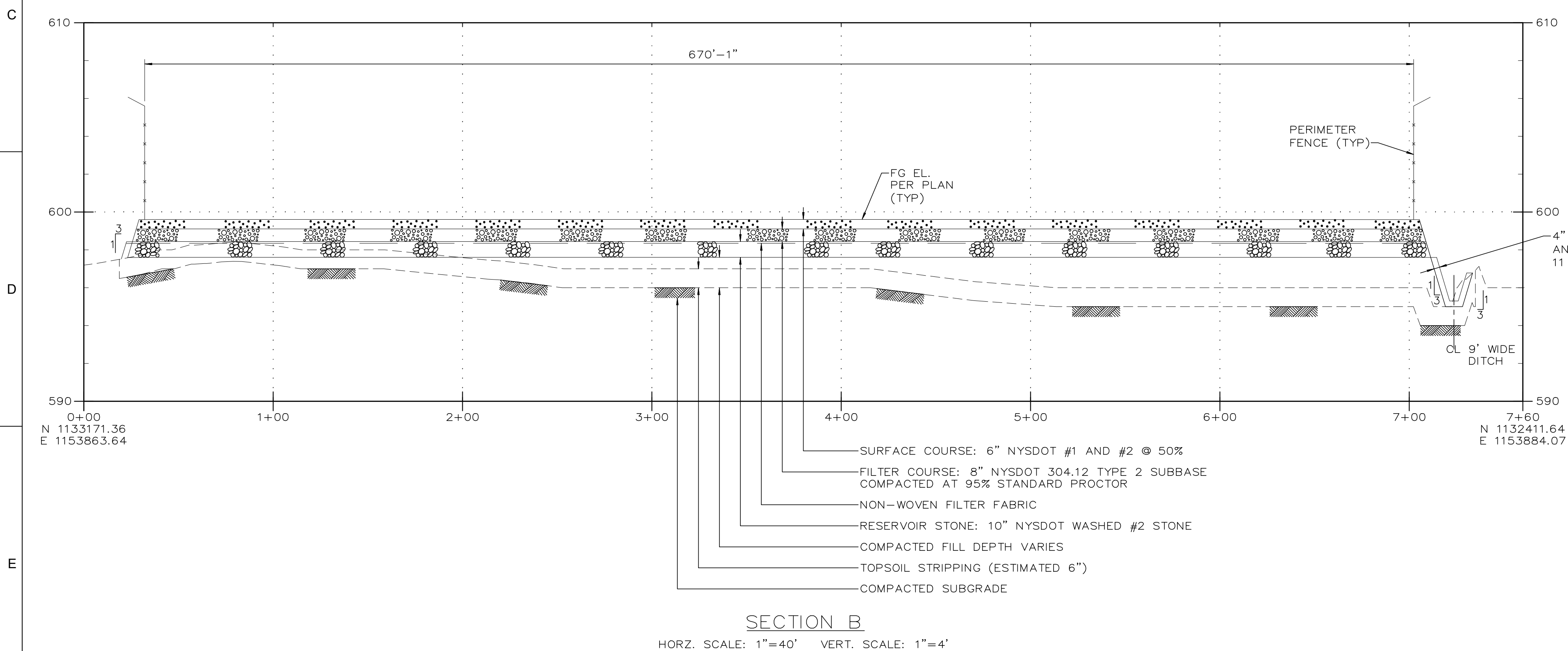
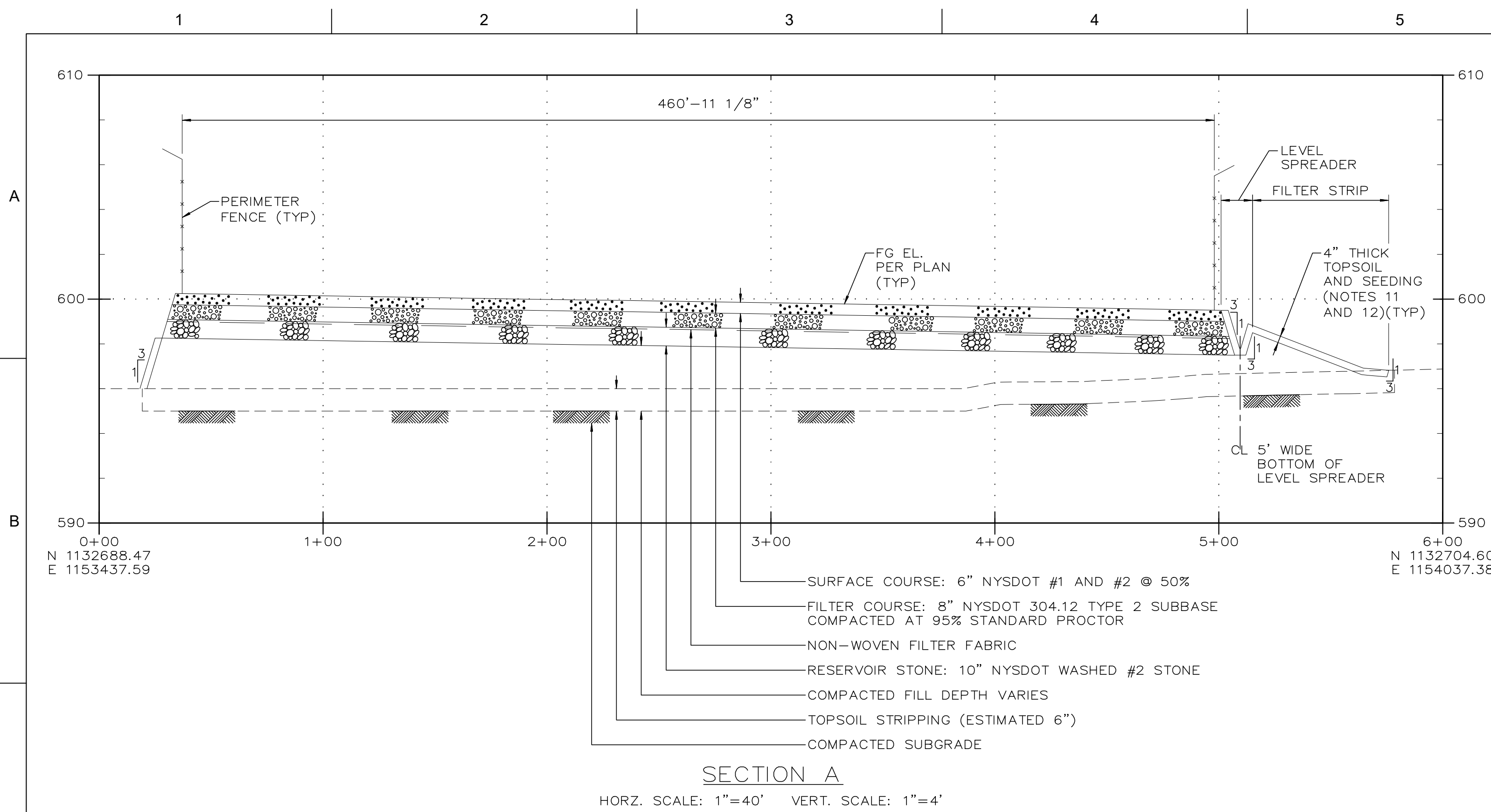
**Sargent & Lundy**  
55 EAST MONROE ST., CHICAGO, ILL.



**NEXTERA ENERGY TRANSMISSION NEW YORK, INC**  
**EMPIRE STATE LINE**  
**DYSINGER SWITCHYARD**  
**ACCESS ROAD GRADING PLAN**

13666-005-C1-0116





## NOTES

1. FOR SITE GRADING PLAN, SEE DRAWING 13666-005-C1-0115.
2. NATIONAL GRID (NG), TOGETHER WITH THE CONSULTING FIRM, (ENVIRONMENTAL DESIGN & RESEARCH (EDR), PREPARED A NYSDEC APPROVED STORMWATER MANAGEMENT PROTOTYPE SYSTEM (SYSTEM), WHICH MAY BE APPLICABLE TO SUBSTATION PROJECTS. THE USER ASSUMES THE SOLE RESPONSIBILITY FOR THE USE OF THIS SYSTEM, ITS APPLICABILITY TO THE PROJECT SITE, AND THE VERIFICATION OF APPROPRIATE USE AND COMPLIANCE WITH VILLAGE, TOWN, CITY, COUNTY, STATE, AND FEDERAL STORMWATER REQUIREMENTS FOR THIS LOCATION.
3. THE GEOTECHNICAL REPORT FOR THE PROJECT WAS PREPARED BY WMA ENGINEERING DPC, DATED MARCH 8, 2019.
4. SITE PREPARATION SHALL INCLUDE THE REMOVAL OF ALL EXISTING TPOSOIL AND FILL/DISTURBED SURFACE SOIL, AND ANY LOOSE OR SOFT INDIGENOUS SOILS PRIOR TO ANY FILL MATERIAL PLACEMENT.
5. ALL FILL MATERIAL FOR THE PROJECT SHALL MEET THE REQUIREMENTS FOR STRUCTURAL FILL OR SUITABLE GRANULAR FILL AS INDICATED IN APPENDIX D OF THE GEOTECHNICAL REPORT. ALL SITE FILLING OPERATIONS SHALL BE MONITORED AND TESTED BY QUALIFIED GEOTECHNICAL ENGINEERING PERSONNEL.
6. NO FILL MATERIAL PLACEMENT SHALL BE ALLOWED OVER FILL MATERIAL WHICH HAS NOT BEEN PROPERLY PLACED AND COMPACTED OR ON WET, SOFT, UNSTABLE OR FROZEN SUBGRADES.
7. EXPOSED SUBGRADES SHALL BE CAREFULLY INSPECTED, PROOFROLLED, AND EVALUATED BY QUALIFIED GEOTECHNICAL ENGINEERING PERSONNEL PRIOR TO FILL PLACEMENT.
8. PROOFROLLING SHALL BE PERFORMED PRIOR TO FILL PLACEMENT USING A SMOOTH DRUM ROLLER, WEIGHING AT LEAST 10 TONS. THE ROLLER SHALL BE OPERATED IN STATIC MODE, AND COMPLETE AT LEAST 2 PASSES OVER THE EXPOSED SUBGRADES. PROOFROLLING MAY BE WAIVED IN THE PRESENCE OF WET SUBGRADES, IF DIRECTED BY QUALIFIED GEOTECHNICAL ENGINEERING PERSONNEL.
9. IT IS RECOMMENDED THAT AREAS WITH FILL MATERIAL EXCEEDING 2-3 FEET BE COMPLETED AT LEAST 6 MONTHS IN ADVANCE OF SPREAD AND MAT FOUNDATION, FLOOR SLAB, AND UTILITY CONSTRUCTION, TO HELP LIMIT POST-CONSTRUCTION SETTLEMENT.
10. CLEARING AND STRIPPING OF ALL TPOSOIL AND SURFICIAL ORGANIC MATTER WITHIN THE PAD AND ROAD LIMITS IS REQUIRED. THE THICKNESS OF TPOSOIL IS ESTIMATED AS 6", HOWEVER, THE ACTUAL THICKNESS MAY VARY. IF ANY EXISTING FILL MATERIAL IS DEEMED UNSUITABLE BY THE GEOTECHNICAL ENGINEER, IT SHALL BE UNDERCUT AND REPLACED WITH STRUCTURAL FILL MATERIAL.
11. ALL SUBGRADES SHALL BE PROOFROLLED WITH A 10-TON OR HEAVIER VIBRATORY DRUM ROLLER, AT A SPEED OF 2 MPH OR LESS. ANY SOFT AREAS SHALL BE UNDERCUT AND REPLACED WITH STRUCTURAL FILL AS DIRECTED BY GEOTECHNICAL ENGINEER. SUBGRADE SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF ANY FILL MATERIAL.
12. SEED MIXTURE:

MIXTURES	RATE PER ACRE (LBS)	RATE PER 1,000 SQ. FT. (LBS)
WHITE CLOVER	8	0.20
OR LADINO CLOVER		
SMOOTH BROMEGRASS	20	0.45
CREEPING RED FESCUE	2	0.05
<b>TOTAL</b>	<b>30</b>	<b>0.70</b>

13. EROSION CONTROL BLANKETING SHALL BE PLACED ALONG ALL SIDESLOPES AND OTHER AREAS NOT STABILIZED BY STONE AND SEEDS PER NOTE 12.
14. IT IS A VIOLATION OF THE GUIDELINES FOR PROFESSIONAL ENGINEERING PRACTICE IN NEW YORK STATE LAW FOR ANY PERSON TO ALTER THIS DOCUMENT IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.
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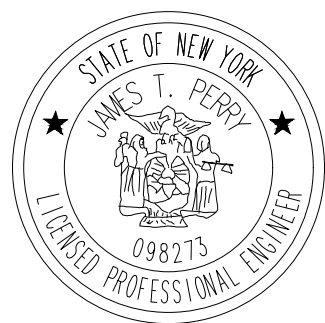
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									SCALE:  <div><div>1"=40'</div><div><div>0</div><div></div><div>40</div></div></div>	
F	08/07/20	PRELIMINARY RELEASE - ISSUED FOR PERMITS	CAF	JTP	KVP	S&L				
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NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP	APPD: KVP	DATE: 03/30/2017		



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55 EAST MONROE ST., CHICAGO, ILL.



NEXTERA ENERGY TRANSMISSION NEW YORK, INC  
EMPIRE STATE LINE  
DYSINGER SWITCHYARD  
SITE GRADING SECTIONS AND DETAILS

13666-005-C1-0120





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WHITE CLOVER OR LADINO CLOVER	8	0.20
SMOOTH BROMEGRASS	20	0.45
CREEPING RED FESCUE	2	0.05
TOTAL	30	0.70

CHA DRAWINGS	
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**NEXTERA**  
**ENERGY**

TRANSMISSION  
NEW YORK

13666-005-C1-0121