

# **New York State Electric & Gas Corporation**

## **Jennison Transmission Solution Project**

### **Exhibit E-2**

#### **Other Facilities**

Critical Energy/Electric Infrastructure Information (CEII) Has Been Redacted  
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\* \* \* \* \*

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\* \* \* \* \*

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## EXHIBIT E-2: OTHER FACILITIES

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### E-2.1 Jennison Substation

#### E-2.2 Existing Jennison Substation

The Existing Jennison Substation<sup>1</sup> is a 115/46kV substation located on State Route 7 in the Town of Bainbridge, New York. As detailed in Exhibit E-4, the 115kV portion of the Existing Jennison Substation is configured in an undesirable [REDACTED] which interconnects four transmission lines and a 115/46kV transformer, and the 46kV portion of the substation is also configured in an undesirable [REDACTED] with two transmission lines and a single grounding transformer. NYSEG Transmission Planning developed a study to determine the contingencies [REDACTED] and determined that connecting Proposed Line 919 to a [REDACTED] substation (such as the Proposed Jennison Substation) would resolve this violation.

The substation components are also in poor condition, [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED] Jennison’s 115kV yard is located within a FEMA floodway and the 46kV yard is located within the 100-year flood zone.

Figures E-2-1 through E-2-4 show design details of the Proposed Jennison Substation site plan and general arrangement with elevations, as well as the 115kV bus design and the lightning mast to be located within the Proposed Jennison Substation.

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<sup>1</sup> For clarity and consistency, the Application includes a Master Glossary of Terms that defines terms and acronyms used throughout the Application.

The Existing Jennison Substation is an air-insulated substation with:

- Transmission Lines:
  - Four 115kV lines:
    - Existing Line 943 (Kattelville)
    - Existing Line 946 (East Norwich)
    - Existing Line 949 (Fraser)
    - Existing Line 954 (Afton)
  - Two 46kV lines:
    - Existing Line 818 (Bainbridge)
    - Existing Line 823 (Railroad Street)
- Power Transformer:
  - A 115kV/46kV transformer feeding the 46kV Existing Jennison Substation.
- Removal / Demolish:
  - All equipment, structures, arresters, and strain buses within Existing Jennison Substation yard

### **E-2.3 Proposed Jennison Substation**

The Proposed Jennison Substation includes the full rebuild/relocation of the Existing Jennison Substation.

The new 115kV yard will include a [REDACTED] AIS design, [REDACTED] and a new 46kV yard designed as an AIS [REDACTED]

The 115kV equipment will be [REDACTED] interrupting capability. The 46kV equipment will be [REDACTED] interrupting capability.

## E-2.4 Secondary Electrical Work

### E-2.4.1 Proposed New Equipment

[Redacted text block containing multiple paragraphs of information under the heading 'Proposed New Equipment']

## **E-2.5 115kV Transmission Lines**

Several 115kV and 46kV transmission lines will be relocated/rebuilt to reconnect from the Existing Jennison Substation to the Proposed Jennison Substation. These lines are:

- Proposed Line 946: 0.90 mile – 115kV
- Proposed Line 949: 0.93 mile – 115kV
- Proposed Line 943: 0.13 mile – 115kV
- Proposed Line 954: 0.49 mile – 115kV
- Proposed Line 919: 0.08 mile – 115kV
- Proposed Line 756: 0.07 mile – 115kV
- Proposed Line 818: 0.48 mile – 46kV
- Proposed Line 823: 1.06 miles – 46kV

The northern terminal facility of Proposed Line 734 will be in the East Norwich Substation. The proposed cables will be attached with new hardware onto the existing substation takeoff structure. The proposed cables will then proceed eastwards along the same route as the existing cable route for approximately 355 feet before crossing over the substation fence and entering the Project ROW. At the midpoint of this 355-foot segment inside the substation, the Project includes one new transmission line structure to support the cables.

As stated in Exhibit 2, the Applicant expects that, before construction begins on the Project, the developer of the High Bridge Wind Farm will construct the North Pond Substation to connect the wind farm to, initially, Existing Line 946 running south and Line 734 running north and then, after those lines are rebuilt in the Project, Proposed Lines 946 and 734. The wind farm developer's construction of the North Pond Substation will include construction of one new electric transmission line structure immediately north, and another new structure immediately south, of the North Pond Substation, as well as conductor connecting the new substation to each of those two structures. In the Project, the southern terminal facility of Proposed Line 734 will be at the point where the new conductor for that line connects to the new structure immediately north of the North

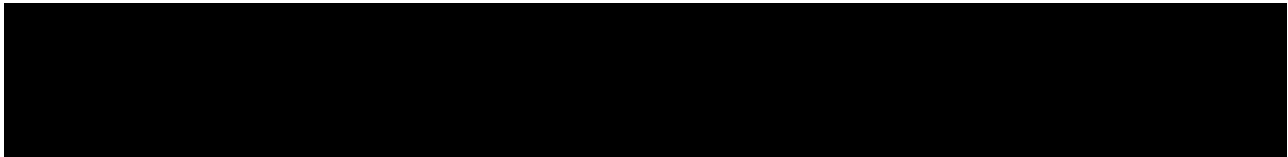


Pond Substation, and the northern terminal facility of Proposed Line 946 will be at the point where the new conductor for that line connects to the new structure immediately south of such substation.

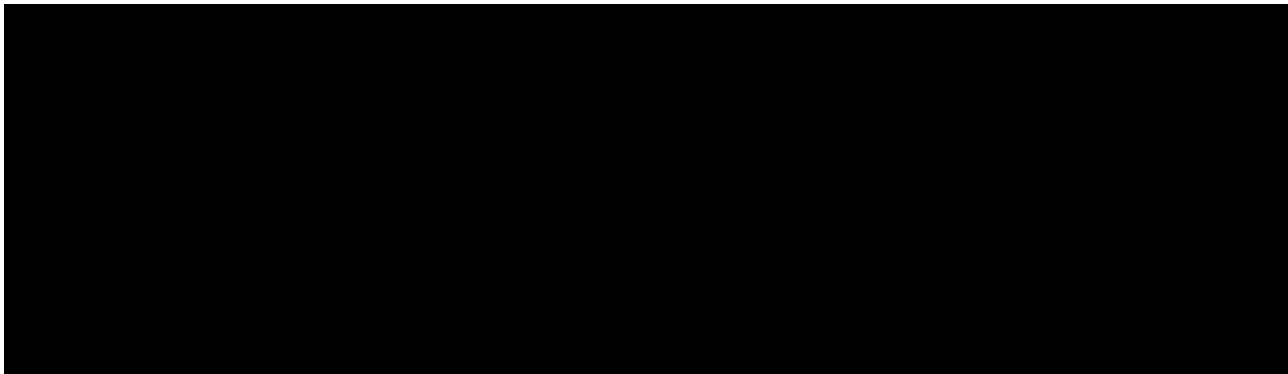
Existing Line 919 will be sectionalized and, as proposed Lines 756 and 919, brought in and out of the Proposed Jennison Substation [REDACTED]. The two sections will be served from adjacent bay positions. This will strengthen the 115kV voltages at the Proposed Jennison Substation and allow for additional power transfer capabilities.

The eastern terminal facility of Proposed Line 949 will be the Eastern Terminus, the easternmost point of the rebuild of Proposed Line 949 in the Project.

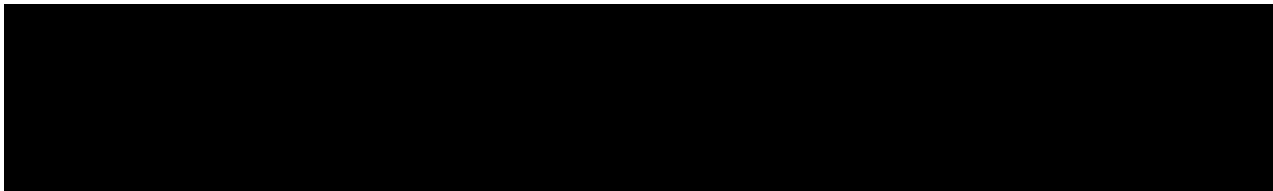
**Table E-2-1: Transformer Protection**

A large black rectangular redaction box covering the content of Table E-2-1.

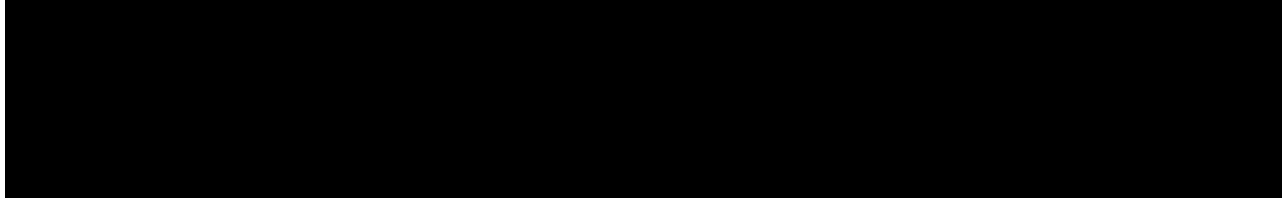
**Table E-2-2: Line Protection**

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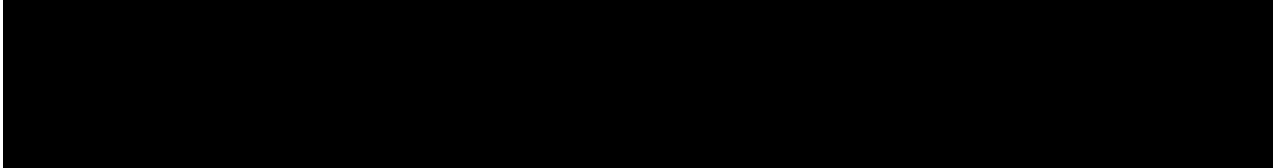
**Table E-2-3: 115kV Bus Protection**

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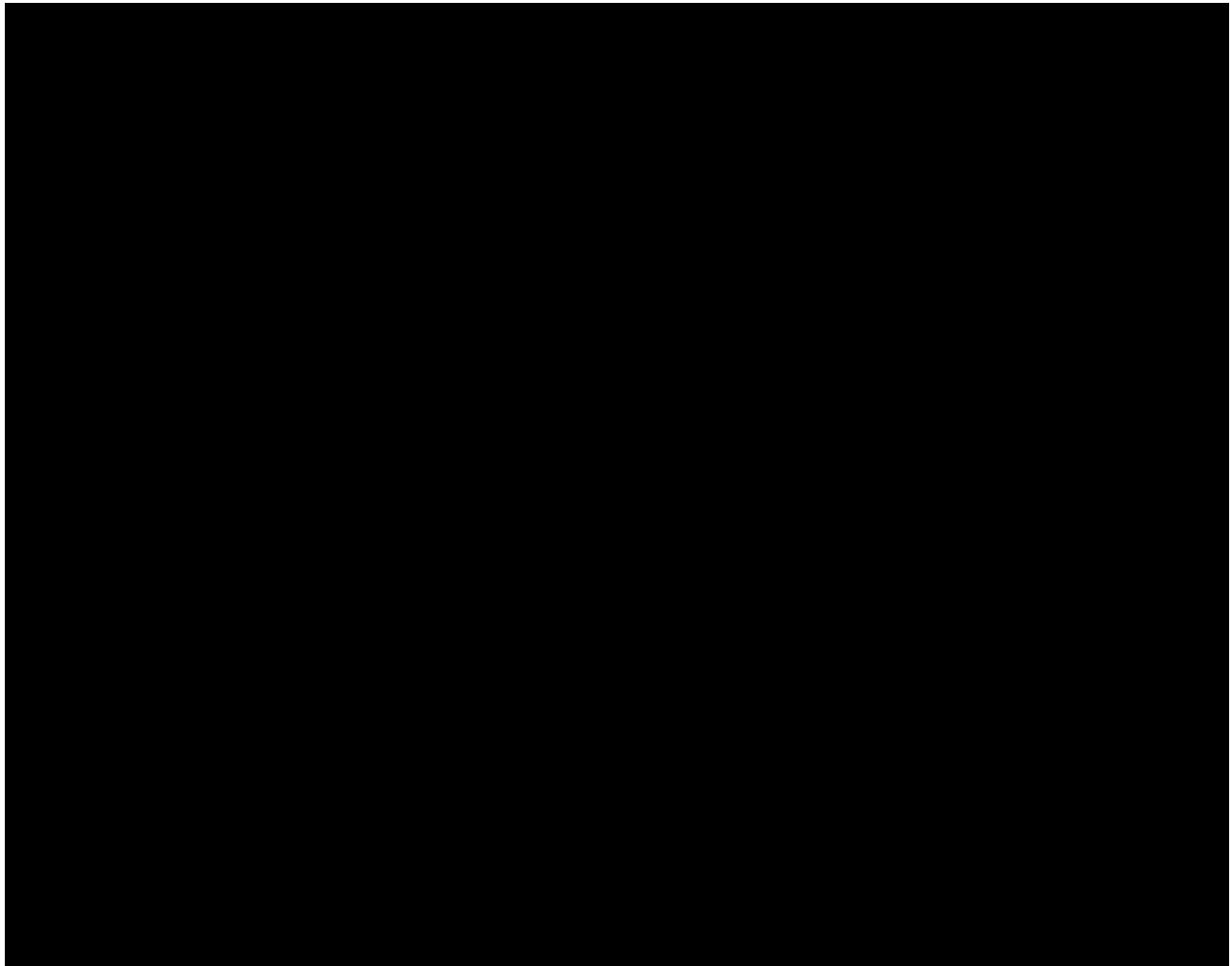
**Table E-2-4: 46kV Line Protection**

A large black rectangular redaction box covering the content of Table E-2-4.

**Table E-2-5: 46kV Bus Protection**

A large black rectangular redaction box covering the content of Table E-2-5.

**Table E-2-6: 46kV Breaker Protection**

A large black rectangular redaction box covering the content of Table E-2-6.

Critical Energy/Electric Infrastructure Information (CEII) Has Been Redacted From This Document

**Table E-2-7: Tele-Protection Requirements**



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# **New York State Electric & Gas Corporation**

## **Jennison Transmission Solution Project**

### **Exhibit E-2**

#### **Other Facilities**

#### **Figures**

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# **New York State Electric & Gas Corporation**

## **Jennison Transmission Solution Project**

### **Exhibit E-2**

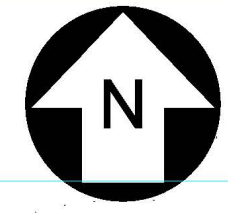
#### **Other Facilities**

##### **Figure E-2-1**

###### **Substation Site Plan**

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North By  
New York State Plain  
Coordinate System (NAD 83)

REFERENCE POINTS			
ID	NORTH	EAST	ELEVATION
BENCHMARK 1	832476.64	1114772.98	1511.46
BENCHMARK 2	832518.45	1114650.71	1510.08

PARCEL BOUNDARY POINTS		
NUMBER	NORTH	EAST
PB1	833768.89	1114677.59
PB2	833767.87	1114604.79
PB3	833742.99	1114605.00
PB4	833741.21	1114397.01
PB5	833904.16	1114695.61
PB6	833902.35	1114183.58
PB7	830790.20	1114241.62
PB8	830800.72	1115208.63
PB9	833775.20	1115127.55

FENCE BOUNDARY POINTS (UTM COORDINATES)		
NUMBER	NORTH	EAST
P1	831763.95	1114600.38
P2	831763.95	1114968.88
P3	831424.95	1114968.88
P4	831338.95	1114893.88
P5	831213.95	1114893.88
P6	831213.95	1114600.38
P7	831420.45	1114600.38
P8	831458.79	1114577.38
P9	831521.12	1114588.38
P10	831559.45	1114600.38

TRANSMISSION LINE DEAD END POLE COORDINATES			
ID	NORTH	EAST	ELEVATION

- NOTES**
- MAP REFERENCE:
    - "BOUNDARY SURVEY FOR NEW YORK STATE ELECTRIC & GAS CORPORATION" TOWN OF BAINBRIDGE, CHENANGO COUNTY, STATE OF NEW YORK BY KEYSTONE ASSOCIATES - ARCHITECTS, ENGINEERS & SURVEYORS, LLC DATED APRIL 27, 2017.
    - "ACCESS RIGHT OF WAY SURVEY FOR NEW YORK STATE ELECTRIC & GAS CORPORATION" TOWN OF BAINBRIDGE, CHENANGO COUNTY, STATE OF NEW YORK BY KEYSTONE ASSOCIATES - ARCHITECTS, ENGINEERS & SURVEYORS, LLC DATED APRIL 27, 2017.
  - FOR COMPLETE BOUNDARY AND EXISTING TOPOGRAPHIC INFORMATION REFERENCE IS MADE TO A PLAN ENTITLED "2014.396.028 MULTIPLE SITE LAND SURVEYING SERVICES - JENNISON", REVISED THROUGH MARCH 14, 2018 PREPARED BY DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS.
  - DEED REFERENCES:
    - FREDERICK ADAMCZYK TO NEW YORK STATE ELECTRIC & GAS CORPORATION WARRANTY DEED - DATED: JANUARY 10, 1952 LIBER 5055 OF DEEDS / PAGE 245 BEING TAX PARCEL 172.05-2-2
    - FREDERICK ADAMCZYK TO NEW YORK STATE ELECTRIC & GAS CORPORATION WARRANTY DEED - DATED: JANUARY 10, 1952 LIBER 5055 OF DEEDS / PAGE 286 BEING TAX PARCEL 172.05-2-2
    - REUBEN E. KAMMAN, EDWIN G. KAMMAN, WILLIAM L. KAMMAN AND GEORGE J. KAMMAN TO NEW YORK STATE ELECTRIC & GAS CORPORATION WARRANTY DEED - DATED: DECEMBER 9, 1958 LIBER 6377 OF DEEDS / PAGE 131 BEING TAX PARCEL 172.05-9-4
    - PETER STECIUK AND MAGDALENA STECIUK TO NEW YORK STATE ELECTRIC & GAS CORPORATION WARRANTY DEED - DATED: APRIL 28, 1952 LIBER 5115 OF DEEDS / PAGE 493 BEING TAX PARCEL 172.00-1-31 TOGETHER WITH THE APPURTENANCES AND ALL THE ESTATE AND RIGHTS OF THE PARTIES OF THE FIRST PART IN AND TO SAID PREMISES.
  - ELEVATIONS ARE TIED INTO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88).
  - ALL BEARINGS ARE REFERENCED TO NEW YORK STATE PLANE COORDINATE SYSTEM (N.A.D. 83).
  - TOTAL FENCED AREA ±4.42 ACRES.

- LEGEND**
- INSTALL
  - CENTER LINE
  - FENCE LINE INSTALL
  - ACCESS ROAD
  - TERMINAL TOWER LINE
  - PROPERTY LINE
  - PROPERTY LINE CORNER POINTS
  - WOODED AND OVERGROWN AREA

**REFERENCE DRAWINGS:**

2345-0002-001 GENERAL ARRANGEMENT PLAN  
 2345-0003-002 PLOT PLAN  
 2345-0003-006 FOUNDATION PLAN

**INSTALL**

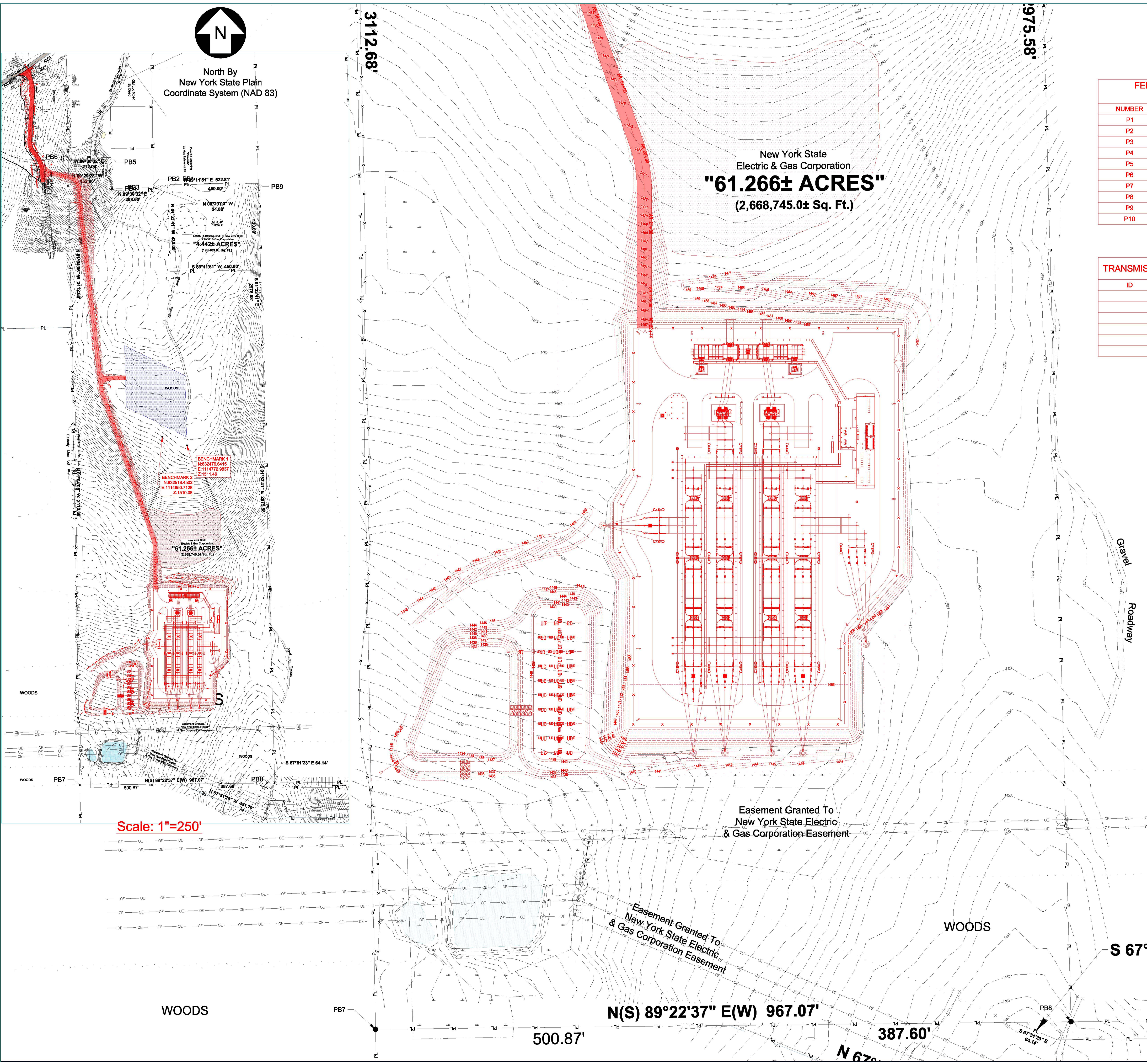
**SITE PLAN**

SHEET 01 OF 02

JENNISON		ONEONTA, NY	
BY: RTCLAB	SCALE: 1" = 70'	FILE: 2345-0003-001 SH 001.dwg	REV
CK: FLPLAB	NO.		
APP: JSD/CJC			
DATE: 11/22/2023			

AVANGRID ENGINEERING CONFIDENTIAL, PROPRIETARY and TRADE SECRET INFORMATION Property of AVANGRID				NYSEG AVANGRID			
REV	DESCRIPTION	DATE	BY	CK	APP	DATE	REV

PE STAMP
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New York State  
Electric & Gas Corporation  
**"61.266± ACRES"**  
(2,668,745.0± Sq. Ft.)

Scale: 1"=250'

Easement Granted To  
New York State Electric  
& Gas Corporation Easement

Easement Granted To  
New York State Electric  
& Gas Corporation Easement

S 67°51'23" E 64.14'

N(S) 89°22'37" E(W) 967.07'

387.60'

500.87'

NO.	DATE	DESCRIPTION	BY	CK	APP
001	07/22/2024	ISSUED FOR APPROVAL	NGR	RCA	
002	07/11/2024	ISSUED FOR APPROVAL	RTC	RSC	
003	03/09/2024	ISSUED FOR REVIEW	RTC	PLP	
004	11/02/2023	ISSUED FOR REVIEW	PLP	PLP	

LOGO: **LaBella**  
ENGINEERS & SURVEYORS  
300 STATE STREET, SUITE 201  
ROCKY HILL, CT 06067  
TEL: 860-265-2000

ANSI D 7/22/2024



North By  
New York State Plain  
Coordinate System (NAD 83)

Point Of Beginning  
"Parcel #2"  
By Map Reference #1

M.R. #1  
Parcel 2  
Lands To Be Acquired By New York State  
Electric & Gas Corporation  
**"4.442± ACRES"**  
(193,483.0± Sq. Ft.)

New York State  
Electric & Gas Corporation  
**"61.266± ACRES"**  
(2,668,745.0± Sq. Ft.)

**BENCHMARK 1**  
N:832476.6415  
E:1114772.9837  
Z:1511.46

**BENCHMARK 2**  
N:832518.4502  
E:1114650.7128  
Z:1510.08

**NOTES**

1. MAP REFERENCE:
  - 1.1. "BOUNDARY SURVEY FOR NEW YORK STATE ELECTRIC & GAS CORPORATION", TOWN OF BAINBRIDGE, CHENANGO COUNTY, STATE OF NEW YORK BY KEYSTONE ASSOCIATES - ARCHITECTS, ENGINEERS & SURVEYORS, LLC DATED APRIL 27, 2017.
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2. FOR COMPLETE BOUNDARY AND EXISTING TOPOGRAPHIC INFORMATION REFERENCE IS MADE TO A PLAN ENTITLED "2014.396.028 MULTIPLE SITE LAND SURVEYING SERVICES - JENNISON", REVISED THROUGH MARCH 14, 2018 PREPARED BY DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS.
3. DEED REFERENCES:
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  - 3.3. REUBEN E. KAMMAN, EDWIN G. KAMMAN, WILLIAM L. KAMMAN AND GEORGE J. KAMMAN TO NEW YORK STATE ELECTRIC & GAS CORPORATION WARRANTY DEED - DATED: DECEMBER 9, 1958 LIBER 6377 OF DEEDS / PAGE 131 BEING TAX PARCEL 172.05-9-4
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4. ELEVATIONS ARE TIED INTO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88).
5. ALL BEARINGS ARE REFERENCED TO NEW YORK STATE PLANE COORDINATE SYSTEM (N.A.D. 83).
6. TOTAL FENCED AREA ±4.42 ACRES.

**LEGEND**

- INSTALL
- CENTER LINE
- FENCE LINE INSTALL
- ACCESS ROAD
- TERMINAL TOWER LINE
- PROPERTY LINE
- PROPERTY LINE CORNER POINTS
- WOODED AND OVERGROWN AREA

**REFERENCE DRAWINGS:**

- 2345-0002-001 GENERAL ARRANGEMENT PLAN
- 2345-0003-002 PLOT PLAN
- 2345-0003-006 FOUNDATION PLAN

**INSTALL**

REV	DESCRIPTION	DATE	BY	APP
0/0	ISSUED FOR REVIEW			
0/0	DATE			
0/0	DATE			
0/0	DATE			

ANSI D 7/22/2024

300 STATE STREET, SUITE 201  
ROCKY HILL, CT 06067  
860.263.4411

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TRADE SECRET INFORMATION  
Property of AVANGRID

**SITE PLAN**

SHEET 02 OF 02

JENNISON ONEONTA, NY

BY: RTCLAB SCALE: 1" = 80'  
CK: RSCLAB NO. FILE: 2345-0003-001 SH 002.dwg  
APP: DATE: 07/19/2024 REV

2345-0003-001 0-0A

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**New York State Electric & Gas Corporation**

**Jennison Transmission Solution Project**

**Exhibit E-2**

**Other Facilities**

**Figure E-2-2**

**Substation General Arrangement Plan**

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0-00	ISSUED FOR APPROVAL	06/17/2024	RTG	RSC
0-01	ISSUED FOR APPROVAL	04/27/2024	RTG	RSC
0-02	ISSUED FOR REVIEW	02/09/2024	RTG	R.P.
0-03	ISSUED FOR APPROVAL	10/04/2024	TGR	RSC

300  
300 STATE STREET, SUIT 201  
ROCKY HILL, CT 06067

LaBella  
Partnership

ANSI D 11/19/2024

**REFERENCE DRAWINGS:**

- 2345-0003-001 SITE PLAN
- 2345-0003-002 PLOT PLAN
- 2345-0003-006 FOUNDATION PLAN
- 2345-0005-003 CONTROL HOUSE, CABINET AND EQUIPMENT LAYOUT
- 2345-0006-001 SH 001 GROUNDING PLAN
- 2345-0006-001 SH 002 FENCE PLAN
- 2345-0006-004 TRENCH AND CONDUIT PLAN
- 2345-0006-009 YARD LIGHTING PLAN

**NOTES:**

1. FOR 46 KV YARD NAMETAGS AND DETAILS SEE 2345-0002-001 SH02
2. FENCE AND INSIDE FENCE IS SUBSTATION SCOPE, OUTSIDE OF FENCE IS TRANSMISSION LINE SCOPE.

**RECOMMENDED ELECTRICAL CLEARANCES**  
TM2.71.54 SUBSTATION ELECTRICAL CLEARANCES (11-2012)

RATED MAXIMUM PHASE TO PHASE VOLTAGE (KV)	PHASE TO GROUND (IN.)		PHASE TO PHASE (IN.)			
	MINIMUM	RECOMMENDED	METAL TO METAL	VERTICAL BREAK DISC. SWITCH, BUS SUPPORT	HORIZONTAL BREAK DISC. SWITCH	HORNGAP DISC SWITCH
			MINIMUM	RECOMMENDED	RECOMMENDED	RECOMMENDED
48.3	17	18	21	48	60	72
123	42	47	53	84-132	108	120

PE STAMP	AVANGRID ENGINEERING CONFIDENTIAL, PROPRIETARY and TRADE SECRET INFORMATION Property of AVANGRID			GENERAL ARRANGEMENT PLAN SHEET 1 OF 2	
	Critical Energy/Electric Infrastructure Information (CEII) Has Been Redacted From This Document			JENNISON	ONEONTA, NY
BY	FLPLAB	SCALE: 1" = 25'	FILE: 2345-0002-001 SH 001.DWG	NO.	REV
APP	JBD/CLC	DATE	2345-0002-001	0-0E	

**INSTALL**



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# **New York State Electric & Gas Corporation**

## **Jennison Transmission Solution Project**

### **Exhibit E-2**

#### **Other Facilities**

##### **Figure E-2-3**

###### **Substation Plot Plan**

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# **New York State Electric & Gas Corporation**

## **Jennison Transmission Solution Project**

### **Exhibit E-2**

#### **Other Facilities**


##### **Figure E-2-4**

### **Substation General Arrangement Elevations**

Critical Energy/Electric Infrastructure Information (CEII) Has Been Redacted  
From This Document

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0.00	ISSUED FOR APPROVAL	06/17/2024	RTG	RSC
0.01	ISSUED FOR APPROVAL	04/22/2024	RTG	RSC
0.02	ISSUED FOR REVIEW	02/09/2024	RTG	R.P.
0.03	ISSUED FOR APPROVAL	10/04/2024	TGR	RSC

300  
 **LaBella**  
 ENGINEERS ARCHITECTS  
 300 STATE STREET, SUIT 201  
 ROYSENY, NY 14604  
 (716) 433-2200

ANSI D 11/15/2024

**REFERENCE DRAWINGS:**

2345-0002-001	GENERAL ARRANGEMENT PLAN
2345-0003-001	SITE PLAN
2345-0003-002	PLOT PLAN
2345-0003-006	FOUNDATION PLAN


**NOTES:**

- FENCE AND INSIDE FENCE IS SUBSTATION SCOPE, OUTSIDE OF FENCE IS TRANSMISSION LINE SCOPE.

**B SECTION**  
 SCALE: 1"=20'

CONDUCTOR	SPAN LENGTH (FT) = 152'						
	TEMPERATURE (F)	30	40	50	60	70	80
1590 KCMIL AAC	MID SPAN SAG (FT)	1.88	2.09	2.29	2.49	2.68	2.86
	HORIZ. TENSION (LBS)	2306	2072	1886	1736	1614	1513

CONDUCTOR	SPAN LENGTH (FT) = 152'						
	TEMPERATURE (F)	30	40	50	60	70	80
7#7 ALUMOWELD	MID SPAN SAG (FT)	0.46	0.50	0.55	0.60	0.67	0.74
	HORIZ. TENSION (LBS)	2063	1900	1741	1583	1432	1290

AVANGRID ENGINEERING CONFIDENTIAL, PROPRIETARY and TRADE SECRET INFORMATION Property of AVANGRID			<b>GENERAL ARRANGEMENT          ELEVATIONS 115 kV</b> SHEET 1 OF 8
JENNISON		ONEONTA, NY	
BY: [ ] CK: [ ] APP: [ ] DATE: [ ]	RT/CLAB FL/PLAB NO.	SCALE: 1" = 20' FILE: 2345-0002-001 SH 001.DWG	REV
REV DESCRIPTION DATE BY CK APP DATE	2345-0002-002		0-0E

**INSTALL**

Critical Energy/Electric Infrastructure Information (CEII) Has Been Redacted From This Document

0.00	ISSUED FOR APPROVAL	06/17/2024	RTG	RSC
0.01	ISSUED FOR APPROVAL	04/22/2024	RTG	RSC
0.02	ISSUED FOR REVIEW	02/09/2024	RTG	TPP

NED  
 LaBella  
 300 STATE STREET, SUIT 201  
 ROCHESTER, NY 14614

ANSI D 11/15/2024

**D SECTION**  
 SCALE: 1"=20'

CONDUCTOR	SPAN LENGTH (FT) = 152'						
	TEMPERATURE (F)	30	40	50	60	70	80
1590 KCMIL AAC	MID SPAN SAG (FT)	1.88	2.09	2.29	2.49	2.68	2.86
	HORIZ. TENSION (LBS)	2306	2072	1886	1736	1614	1513

CONDUCTOR	SPAN LENGTH (FT) = 152'						
	TEMPERATURE (F)	30	40	50	60	70	80
7#7 ALUMOWELD	MID SPAN SAG (FT)	0.46	0.50	0.55	0.60	0.67	0.74
	HORIZ. TENSION (LBS)	2063	1900	1741	1583	1432	1290

**REFERENCE DRAWINGS:**

- 2345-0002-001 GENERAL ARRANGEMENT PLAN
- 2345-0003-001 SITE PLAN
- 2345-0003-002 PLOT PLAN
- 2345-0003-006 FOUNDATION PLAN


**NOTES:**

1. FENCE AND INSIDE FENCE IS SUBSTATION SCOPE, OUTSIDE OF FENCE IS TRANSMISSION LINE SCOPE.

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Critical Energy/Electric Infrastructure Information (CEII) Has Been Redacted From This Document		JENNISON ONEONTA, NY	
BY: [REDACTED] RT/CLAB CK: [REDACTED] FL/PLAB APP: [REDACTED] RD/CLC DATE:		SCALE: 1" = 20' NO.	FILE: 2345-0002-001 SH 002.DWG REV
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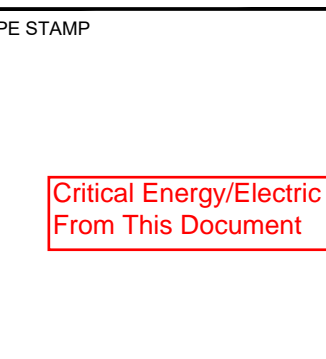



0.00	ISSUED FOR APPROVAL	06/17/2024	RTG	RSC
0.00	ISSUED FOR APPROVAL	04/22/2024	RTG	RSC
0.00	ISSUED FOR REVIEW	02/08/2024	RTG	CLP
0.00	ISSUED FOR APPROVAL	10/04/2024	TGR	RSC



  
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**NOTES:**  
 1. FENCE AND INSIDE FENCE IS SUBSTATION SCOPE, OUTSIDE OF FENCE IS TRANSMISSION LINE SCOPE.

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G SECTION  
 SCALE: 1"=10'

**NOTES:**  
 1. FENCE AND INSIDE FENCE IS SUBSTATION SCOPE, OUTSIDE OF FENCE IS TRANSMISSION LINE SCOPE.

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BY: RTCLAB CK: FLPLAB APP: JBD/CJC DATE: 01/30/2024		SCALE: 1" = 10' FILE: 2345-0002-001 SH 004.DWG	REV: 0-0E						
REV	DESCRIPTION	DATE	BY	CK	APP	DATE	01/30/2024	2345-0002-002	0-0E









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