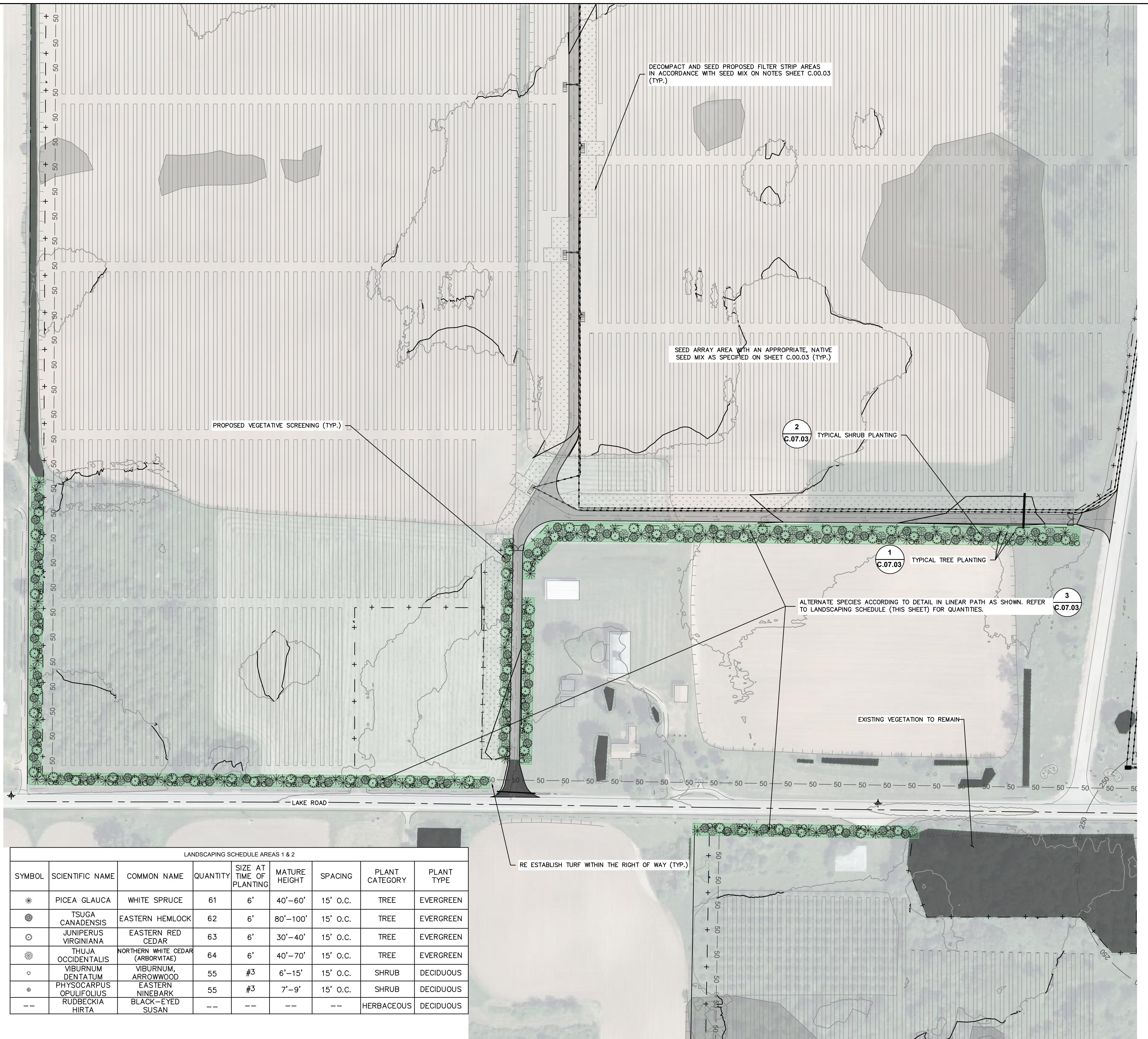


## **Appendix B: Landscaping Plan**





## LEGEND

	PROPERTY LINE
	EASEMENTS
	50' SENSITIVE AREA BUFFER
	EXISTING LOTLINES
	EXISTING GRAVEL DRIVE
	EXISTING RIGHT OF WAY
	EXISTING DRAINAGE DITCH
	EXISTING WATER EDGE
	APPROXIMATE TOP OF STREAM BANK
	EXISTING FENCE
	EXISTING GUIDERAIL
	EXISTING AGRICULTURE FIELD
	EXISTING TREE LINE
	EXISTING BRUSH LINE
	EXISTING RAILROAD
	EXISTING PIPELINE
	EXISTING ELECTRIC TRANSMISSION LINE
	EXISTING OVERHEAD ELECTRIC
	EXISTING UNDERGROUND ELECTRIC
	EXISTING UTILITY POLE
	EXISTING GUY WIRE
	EXISTING HYDRANT
	SURVEY CONTROL POINT
	APPROX. LOCATION-EXISTING ACTIVE WELLS
	DELINEATED WETLAND (USACE)
	DELINEATED WETLAND (STATE/USACE)
	DELINEATED WETLAND (NO JURISDICTION)
	DELINEATED DRAINAGE FEATURE
	100 FT DELINEATED WETLAND BUFFER
	50 FT STREAM BUFFER FROM TOP OF BANK
	PROPOSED TREE LINE
	PROPOSED BRUSH LINE
	PROPOSED CHAIN LINK FENCE
	PROPOSED AGRICULTURAL FENCE
	PROPOSED ACCESS ROAD
	PROPOSED GRASSED FILTER STRIP
	PROPOSED SOLAR ARRAY (TRACKER)
	PROPOSED SOLAR ARRAY (FIXED TILT)
	PROPOSED VEGETATIVE SCREENING
	PROPOSED HERBACEOUS SEEDING AREA
	PROPOSED UNDERGROUND ELECTRIC TRENCH PATH
	PROPOSED AC WIRE PATH
	REMAINING VEGETATION

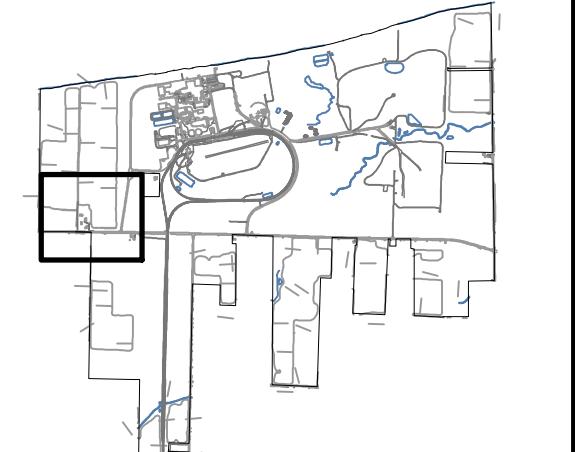
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292 MADISON AVENUE, 15TH FLOOR  
NEW YORK, NY 10017



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## **KEY PLAN:**



## **REVISIONS:**

**PROJECT TITLE:**

# SOMERSET SOLAR PROJECT

## PROJECT LOCATION:

**LAKE ROAD  
SOMERSET, NY  
AREAS 1 & 2**

**SHEET TITLE & DESCRIPTION:**

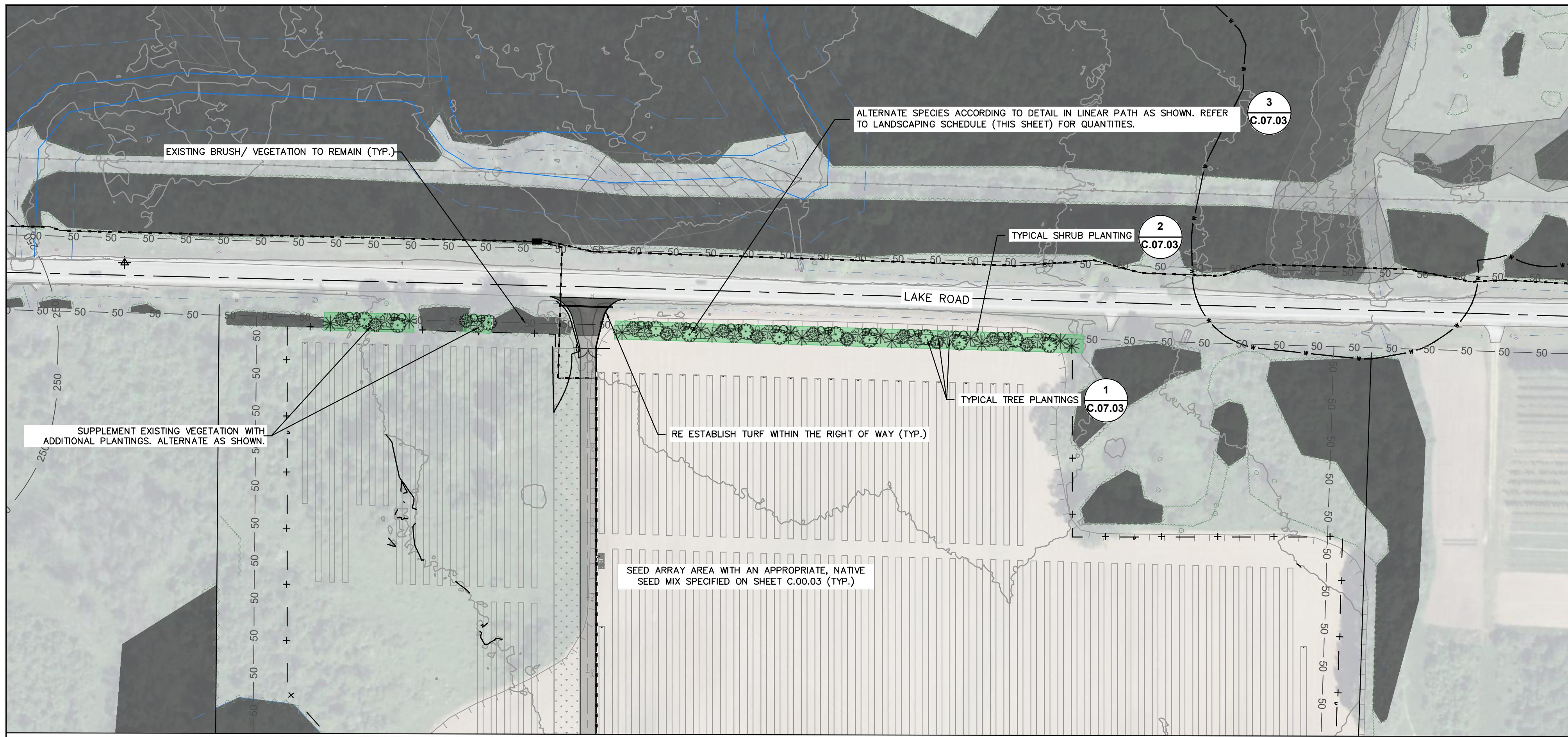
## LANDSCAPING PLAN

**ISSUED FOR 94-C PERMIT ONLY**

PROJ NUM:	SU20.0012
DES:	RCD
DWN:	APC
CHK:	JPP/MAH
APV:	BMS
DATE:	08/11/2023
SCALE AT 22" x 24"	

AS SHOWN

AS SHOWN  
SHEET NO: PV-C.05.01 REV: 1



## LEGEND

	PROPERTY LINE
	EASEMENTS
	50' SENSITIVE AREA BUFFER
	EXISTING LOTLINES
	EXISTING GRAVEL DRIVE
	EXISTING RIGHT OF WAY
	EXISTING DRAINAGE DITCH
	EXISTING WATER EDGE
	APPROXIMATE TOP OF STREAM BANK
	EXISTING FENCE
	EXISTING GUIDERAIL
	EXISTING AGRICULTURE FIELD
	EXISTING TREE LINE
	EXISTING BRUSH LINE
	EXISTING RAILROAD
	EXISTING PIPELINE
	EXISTING ELECTRIC TRANSMISSION LINE
	EXISTING OVERHEAD ELECTRIC
	EXISTING UNDERGROUND ELECTRIC
	EXISTING UTILITY POLE
	EXISTING GUY WIRE
	EXISTING HYDRANT
	SURVEY CONTROL POINT
	APPROX. LOCATION-EXISTING ACTIVE WELLS
	DELINEATED WETLAND (USACE)
	DELINEATED WETLAND (STATE/USACE)
	DELINEATED WETLAND (NO JURISDICTION)
	DELINEATED DRAINAGE FEATURE
	100 FT DELINEATED WETLAND BUFFER
	50 FT STREAM BUFFER FROM TOP OF BANK
	PROPOSED TREE LINE
	PROPOSED BRUSH LINE
	PROPOSED CHAIN LINK FENCE
	PROPOSED AGRICULTURAL FENCE
	PROPOSED ACCESS ROAD
	PROPOSED GRASSED FILTER STRIP
	PROPOSED SOLAR ARRAY (TRACKER)
	PROPOSED SOLAR ARRAY (FIXED TILT)
	PROPOSED VEGETATIVE SCREENING
	PROPOSED HERBACEOUS SEEDING AREA
	PROPOSED UNDERGROUND ELECTRIC TRENCH PATH
	PROPOSED AC WIRE PATH
	REMAINING VEGETATION

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## KEY PLAN:



## REVISIONS:

NO.	DATE	DESCRIPTION
0	03/03/2023	ISSUED FOR 94-C PERMIT
1	08/11/2023	RE-ISSUED FOR 94-C PERMIT

PROJECT TITLE

# SOMERSET SOLAR PROJECT

## PROJECT LOCATION:

**LAKE ROAD  
SOMERSET, NY  
AREA 4**

# LANDSCAPING PLAN

**ISSUED FOR 94-C PERMIT ONLY**  
**NOT FOR CONSTRUCTION**

LANDSCAPING SCHEDULE AREA 4								
SYMBOL	SCIENTIFIC NAME	COMMON NAME	QUANTITY	SIZE AT TIME OF PLANTING	MATURE HEIGHT	SPACING	PLANT CATEGORY	PLANT TYPE
*	PICEA GLAUCA	WHITE SPRUCE	24	6'	40'-60'	15' O.C.	TREE	EVERGREEN
✿	TSUGA CANADENSIS	EASTERN HEMLOCK	24	6'	80'-100'	15' O.C.	TREE	EVERGREEN
✿	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	25	6'	30'-40'	15' O.C.	TREE	EVERGREEN
✿	THUJA OCCIDENTALIS	NORTHERN WHITE CEDAR (ARBORVITAE)	25	6'	40'-70'	15' O.C.	TREE	EVERGREEN
○	VIBURNUM DENTATUM	VIBURNUM, ARROWWOOD	25	#3	6'-15'	15' O.C.	SHRUB	DECIDUOUS
⊕	PHYSOCARPUS OPULIFOLIUS	EASTERN NINEBARK	25	#3	7'-9'	15' O.C.	SHRUB	DECIDUOUS
--	RUDBECKIA HIRTA	BLACK-EYED SUSAN	--	--	--	--	HERBACEOUS	DECIDUOUS

PROJ NUM:	SU20.0012
DES:	RCD
OWN:	RCD
CHK:	JPP/MAH
APV:	BMS
DATE:	08/11/2023
SCALE AT 22" x 34":	

# AS SHOWN



## LEGEND

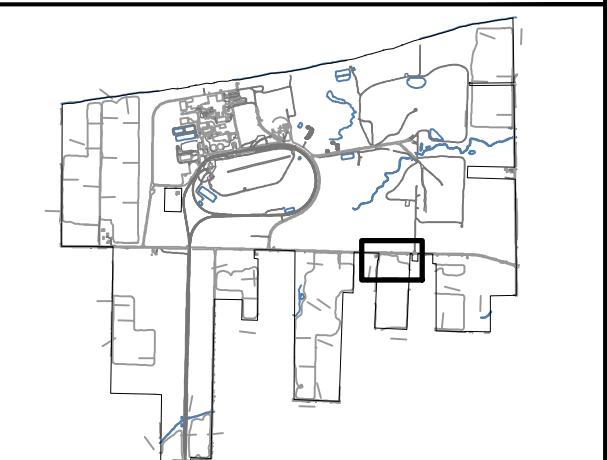
	PROPERTY LINE
	EASEMENTS
	50' SENSITIVE AREA BUFFER
	EXISTING LOTLINES
	EXISTING GRAVEL DRIVE
	EXISTING RIGHT OF WAY
	EXISTING DRAINAGE DITCH
	EXISTING WATER EDGE
	APPROXIMATE TOP OF STREAM BANK
	EXISTING FENCE
	EXISTING GUIDERAIL
	EXISTING AGRICULTURE FIELD
	EXISTING TREE LINE
	EXISTING BRUSH LINE
	EXISTING RAILROAD
	EXISTING PIPELINE
	EXISTING ELECTRIC TRANSMISSION LINE
	EXISTING OVERHEAD ELECTRIC
	EXISTING UNDERGROUND ELECTRIC
	EXISTING UTILITY POLE
	EXISTING GUY WIRE
	EXISTING HYDRANT
	SURVEY CONTROL POINT
	APPROX. LOCATION—EXISTING ACTIVE WELLS
	DELINEATED WETLAND (USACE)
	DELINEATED WETLAND (STATE/USACE)
	DELINEATED WETLAND (NO JURISDICTION)
	DELINEATED DRAINAGE FEATURE
	100 FT DELINEATED WETLAND BUFFER
	50 FT STREAM BUFFER FROM TOP OF BANK
	PROPOSED TREE LINE
	PROPOSED BRUSH LINE
	PROPOSED CHAIN LINK FENCE
	PROPOSED AGRICULTURAL FENCE
	PROPOSED ACCESS ROAD
	PROPOSED GRASSED FILTER STRIP
	PROPOSED SOLAR ARRAY (TRACKER)
	PROPOSED SOLAR ARRAY (FIXED TILT)
	PROPOSED VEGETATIVE SCREENING
	PROPOSED HERBACEOUS SEEDING AREA
	PROPOSED UNDERGROUND ELECTRIC TRENCH PATH
	PROPOSED AC WIRE PATH
	REMAINING VEGETATION

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## KEY PLAN:



## **REVISIONS:**

PROJECT TITLE:  
**SOMERSET SOLAR  
PROJECT**

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**LAKE ROAD  
SOMERSET, NY  
AREA 5**

## **SHEET TITLE & DESCRIPTION:**

## LANDSCAPING PLAN

**ISSUED FOR 94-C PERMIT ONLY**  
**NOT FOR CONSTRUCTION**

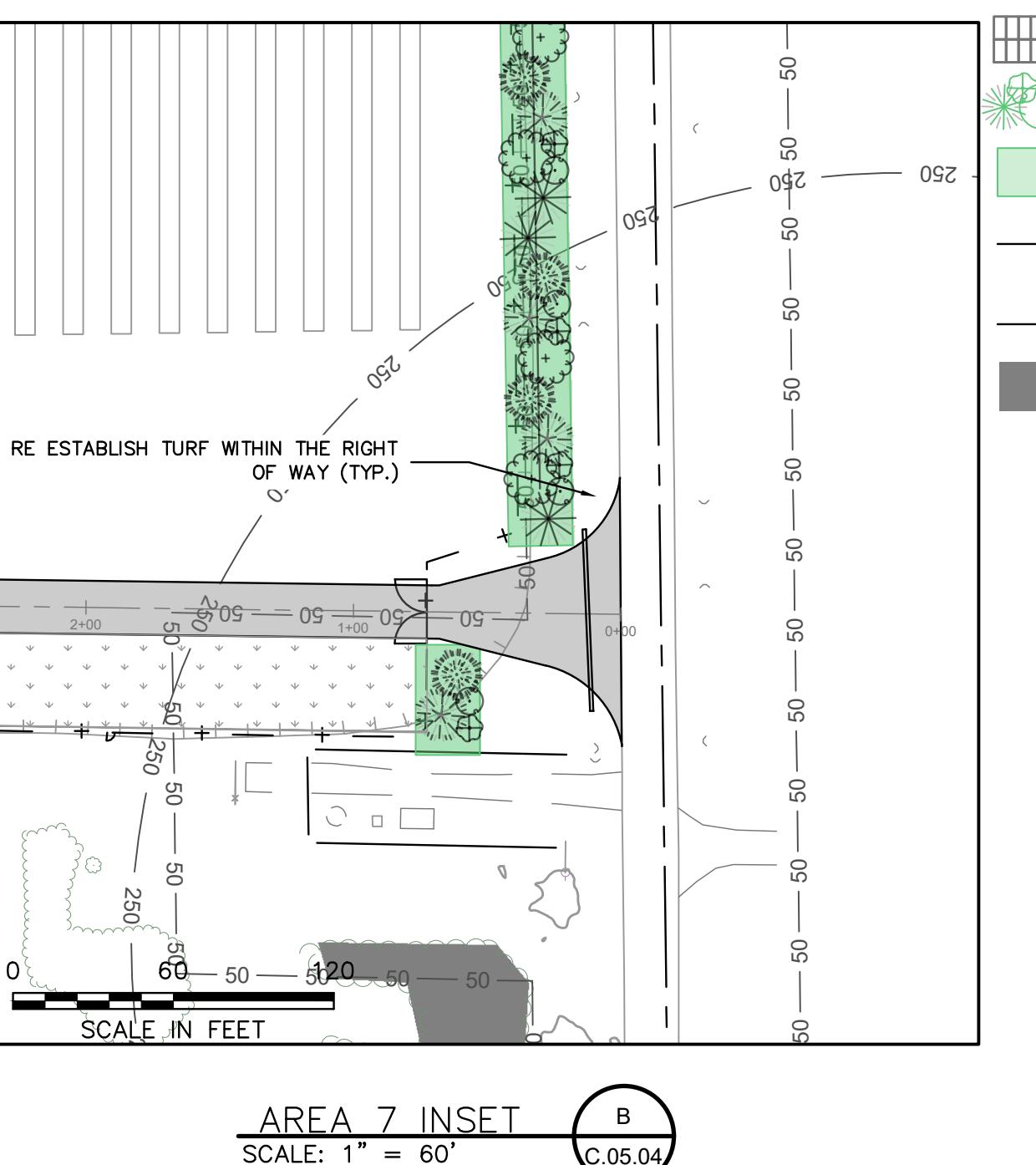
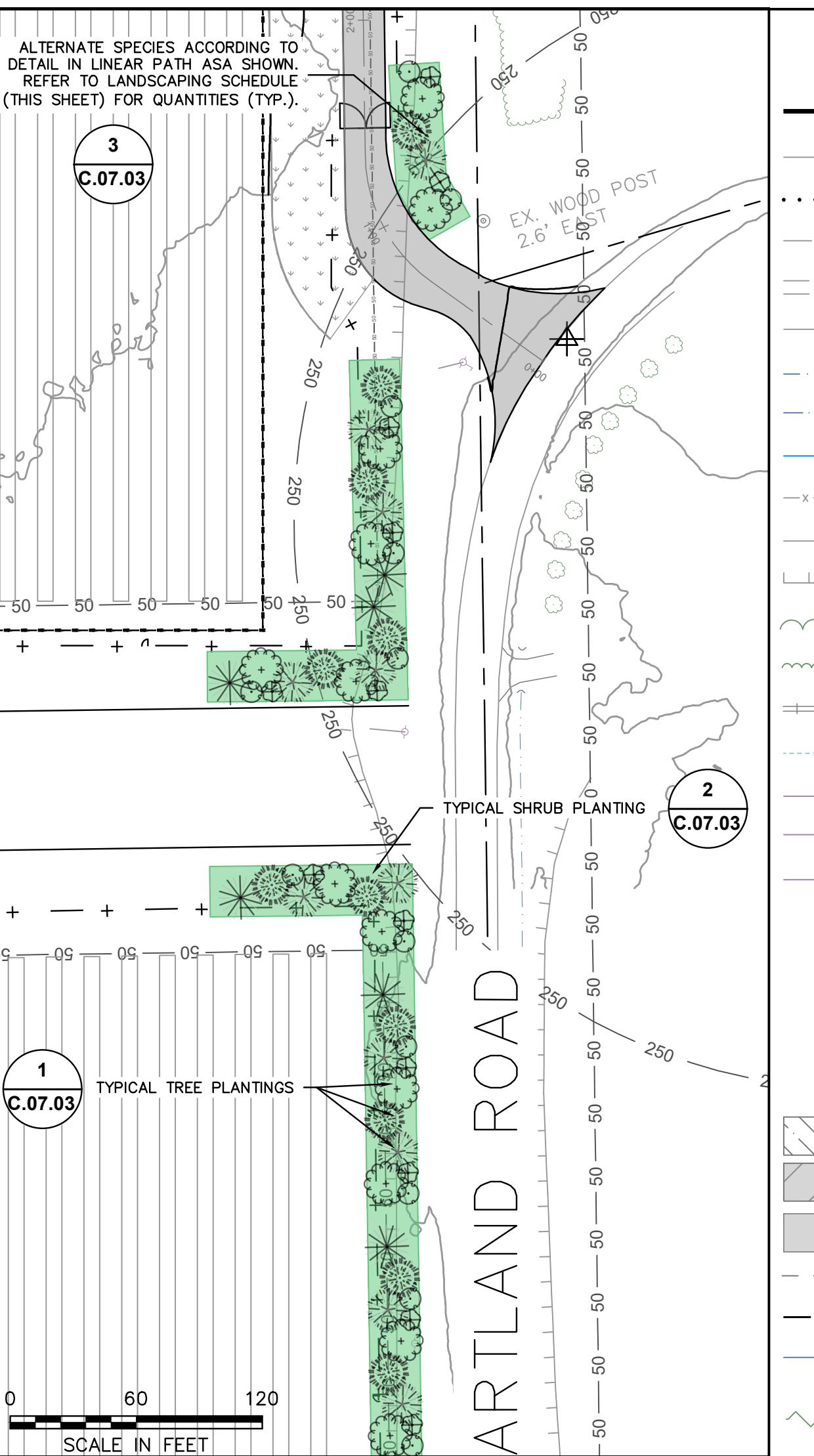
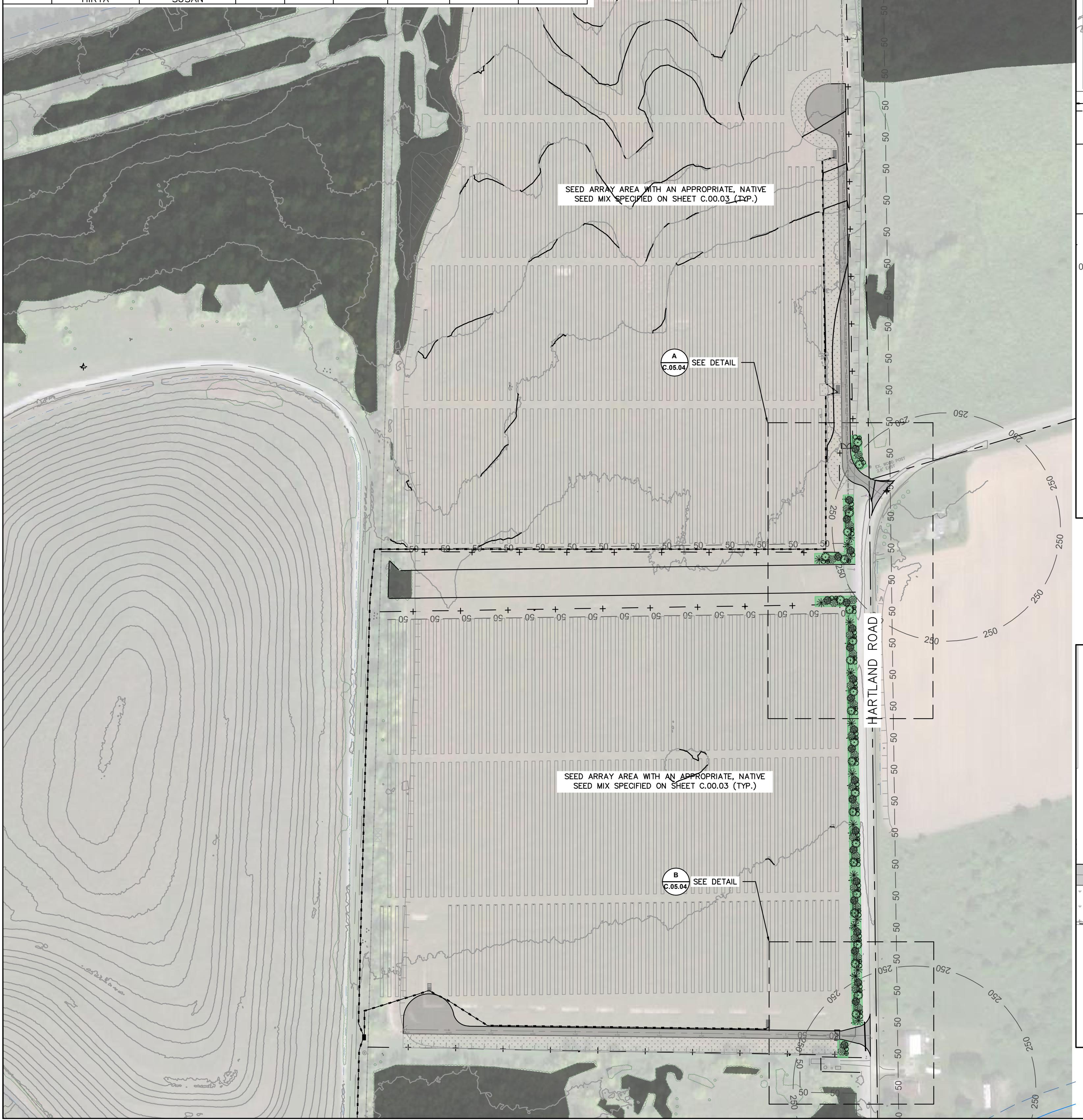
LANDSCAPING SCHEDULE AREA 5								
SYMBOL	SCIENTIFIC NAME	COMMON NAME	QUANTITY	SIZE AT TIME OF PLANTING	MATURE HEIGHT	SPACING	PLANT CATEGORY	PLANT TYPE
*	PICEA GLAUCA	WHITE SPRUCE	11	6'	40'-60'	15' O.C.	TREE	EVERGREEN
✿	TSUGA CANADENSIS	EASTERN HEMLOCK	11	6'	80'-100'	15' O.C.	TREE	EVERGREEN
●	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	10	6'	30'-40'	15' O.C.	TREE	EVERGREEN
❀	THUJA OCCIDENTALIS	NORTHERN WHITE CEDAR (ARBORVITAE)	11	6'	40'-70'	15' O.C.	TREE	EVERGREEN
○	VIBURNUM DENTATUM	VIBURNUM, ARROWWOOD	11	#3	6'-15'	15' O.C.	SHRUB	DECIDUOUS
⊕	PHYSOCARPUS OPULIFOLIUS	EASTERN NINEBARK	11	#3	7'-9'	15' O.C.	SHRUB	DECIDUOUS
--	RUDBECKIA HIRTA	BLACK-EYED SUSAN	--	--	--	--	HERBACEOUS	DECIDUOUS

N

A horizontal scale bar with tick marks at 0, 50, and 100. The segment between 0 and 50 is divided into 10 equal parts, and the segment between 50 and 100 is also divided into 10 equal parts. Below the scale bar, the text "SCALE IN FEET" is written.

**AS SHOWN**

LANDSCAPING SCHEDULE AREA 7								
SYMBOL	SCIENTIFIC NAME	COMMON NAME	QUANTITY	SIZE AT TIME OF PLANTING	MATURE HEIGHT	SPACING	PLANT CATEGORY	PLANT TYPE
*	PICEA GLAUCA	WHITE SPRUCE	21	6'	40'-60'	15' O.C.	TREE	EVERGREEN
●	TSUGA CANADENSIS	EASTERN HEMLOCK	24	6'	80'-100'	15' O.C.	TREE	EVERGREEN
○	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	24	6'	30'-40'	15' O.C.	TREE	EVERGREEN
◎	THUJA OCCIDENTALIS	NORTHERN WHITE CEDAR (ARBOVITAE)	24	6'	40'-70'	15' O.C.	TREE	EVERGREEN
○	VIBURNUM DENTATUM	VIBURNUM, ARROWWOOD	25	#3	6'-15'	15' O.C.	SHRUB	DECIDUOUS
⊕	PHYSOCARPUS OPULIFOLIUS	EASTERN NINEBARK	25	#3	7'-9'	15' O.C.	SHRUB	DECIDUOUS
--	RUDBECKIA HIRTA	BLACK-EYED SUSAN	--	--	--	--	HERBACEOUS	DECIDUOUS



### LEGEND

- PROPERTY LINE
- EASEMENTS
- 50' SENSITIVE AREA BUFFER
- EXISTING LOTLINES
- EXISTING GRAVEL DRIVE
- EXISTING RIGHT OF WAY
- EXISTING DRAINAGE DITCH
- EXISTING WATER EDGE
- APPROXIMATE TOP OF STREAM BANK
- EXISTING FENCE
- EXISTING GUiderail
- EXISTING AGRICULTURE FIELD
- EXISTING TREE LINE
- EXISTING BRUSH LINE
- EXISTING RAILROAD
- EXISTING PIPELINE
- EXISTING ELECTRIC TRANSMISSION LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UTILITY POLE
- EXISTING GUY WIRE
- EXISTING HYDRANT
- SURVEY CONTROL POINT
- APPROX. LOCATION-EXISTING ACTIVE WELLS
- DELINATED WETLAND (USACE)
- DELINATED WETLAND (STATE/USACE)
- DELINATED WETLAND (NO JURISDICTION)
- DELINATED DRAINAGE FEATURE
- 100 FT DELINATED WETLAND BUFFER
- 50 FT STREAM BUFFER FROM TOP OF BANK
- PROPOSED TREE LINE
- PROPOSED BRUSH LINE
- PROPOSED CHAIN LINK FENCE
- PROPOSED AGRICULTURAL FENCE
- PROPOSED ACCESS ROAD
- PROPOSED GRASSED FILTER STRIP
- PROPOSED SOLAR ARRAY (TRACKER)
- PROPOSED SOLAR ARRAY (FIXED TILT)
- PROPOSED VEGETATIVE SCREENING
- PROPOSED HERBACEOUS SEEDING AREA
- PROPOSED UNDERGROUND ELECTRIC TRENCH PATH
- PROPOSED AC WIRE PATH
- REMAINING VEGETATION

0 150 300  
SCALE IN FEET

N

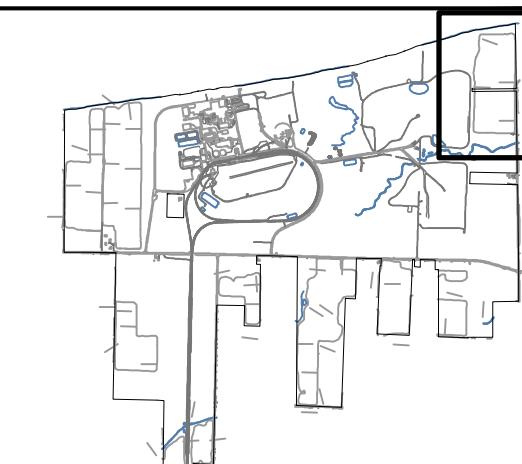
aes

AES CLEAN ENERGY DEVELOPMENT, LLC  
292 MADISON AVENUE, 15TH FLOOR  
NEW YORK, NY 10017

TETRA TECH

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### KEY PLAN:



### REVISIONS:

NO.	DATE	DESCRIPTION
0	03/03/2023	ISSUED FOR 94-C PERMIT
1	08/11/2023	RE-ISSUED FOR 94-C PERMIT

### PROJECT TITLE:

## SOMERSET SOLAR PROJECT

### PROJECT LOCATION:

LAKE ROAD  
SOMERSET, NY  
AREA 7

### SHEET TITLE & DESCRIPTION:

### LANDSCAPING PLAN

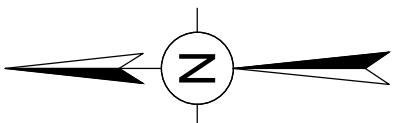
ISSUED FOR 94-C PERMIT ONLY  
NOT FOR CONSTRUCTION

PROJ NUM: SU20.0012  
DES: RCD  
DWN: RCD  
CHK: JPP/MAH  
APV: BMS  
DATE: 08/11/2023  
SCALE AT 22' x 34':

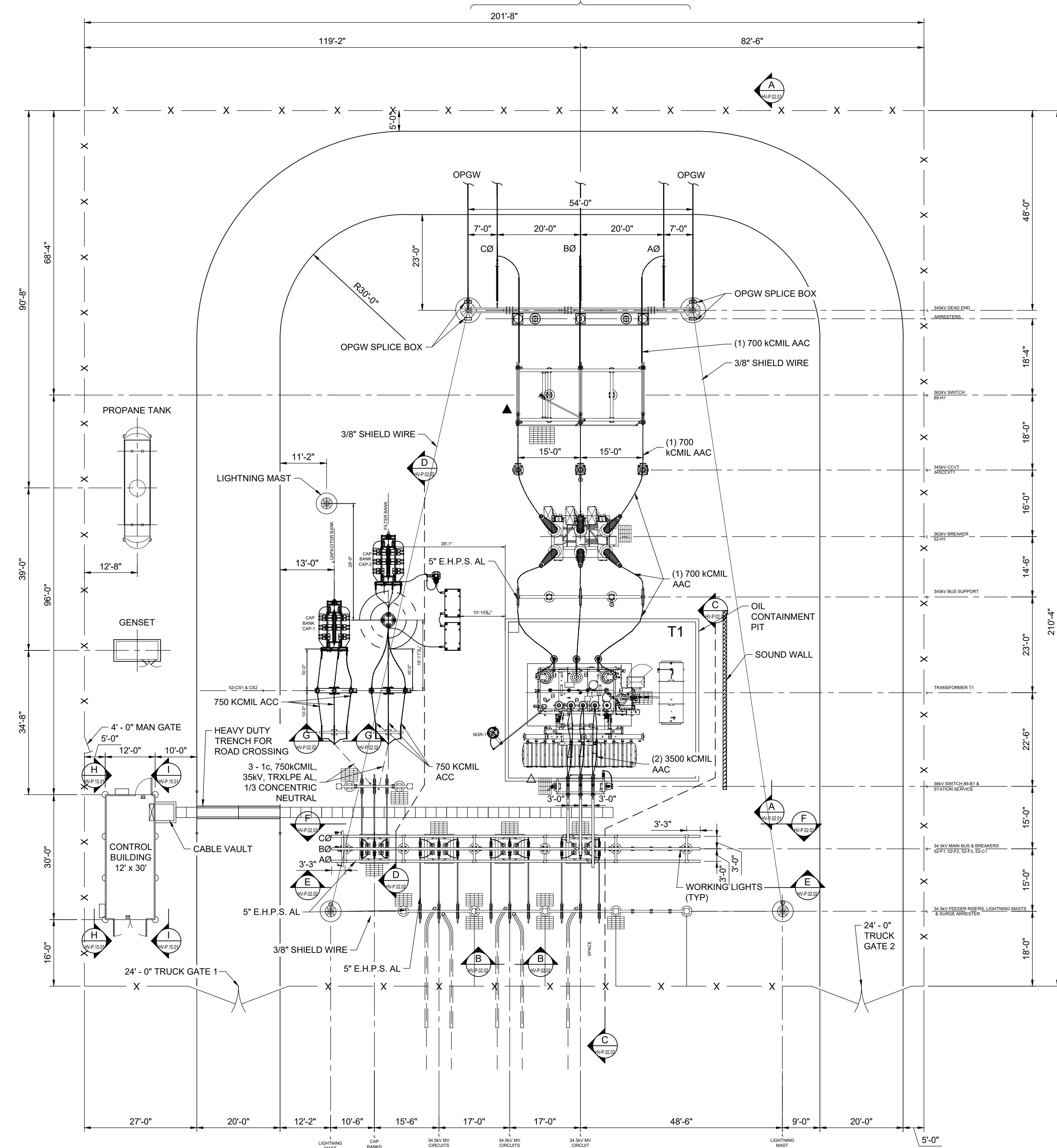
AS SHOWN  
SHEET NO: PV-C.05.04  
REV: 1

# **Attachment 9:**

## **Facility Substation Drawings**



345KV OH CONNECTION TO  
KINTIGH SUBSTATION  
(APPROX. 159 FT)



## NOTES

- TUBULAR BUS SHALL BE EXTRUDED, SEAMLESS BUS PIPE MADE OF 6063-T6 ALLOY, SCHEDULE 40.
- PHASING ARRANGEMENT TO BE CONFIRMED BASED ON THE TRANSMISSION LINE DESIGN.
- LEVELING NUTS SHALL BE USED ON ALL STEEL STRUCTURES.
- EQUIPMENT SHALL BE MOUNTED DIRECTLY ON PADS.
- EQUIPMENT RATINGS SUBJECT TO CHANGE BASED ON STUDIES RESULTS.
- DESIGN IS PRELIMINARY AND SHALL BE FINALIZED AT DETAILED DESIGN PHASE.

**aes**  
AES CLEAN ENERGY DEVELOPMENT, LLC  
292 MADISON AVENUE, 15TH FLOOR  
NEW YORK, NY 10017



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## LEGEND

- LIGHT (STRUCTURE)
- SWITCH OPERATOR - MOTOR
- SWITCH OPERATOR - WORM GEAR
- FENCE
- 4' x 6' SWITCH GROUNDING MAT
- BURIED CABLE

## KEY PLAN:

## MINIMUM CLEARANCE REQUIREMENT

- 345KV MINIMUM CLEARANCE (1300KV BIL):  
LIVE PARTS: Ø-G=108"  
Ø-O=119"  
TO GRADE: 18'-0" (BUS)  
30'-0" (DRIVEWAY)
- 34.5KV MINIMUM CLEARANCE (200KV BIL):  
LIVE PARTS: Ø-G=13"  
Ø-O=18"  
TO GRADE: 10'-0" (BUS)  
22'-0" (DRIVEWAY)

DRAWING NUMBER	DRAWING DESCRIPTION
HV-E.02.01	345/34.5kV SUBSTATION SWITCHING ONE-LINE DIAGRAM
HV-P.08.01	345/34.5kV SUBSTATION GROUNDING PLAN
HV-P.14.01	345/34.5kV SUBSTATION CONTROL BUILDING LAYOUT
HV-P.02.01	345/34.5kV SUBSTATION 345kV ELEVATION VIEW
HV-P.02.02	345/34.5kV SUBSTATION 34.5kV ELEVATION VIEW
HV-P.15.01	345/34.5kV SUBSTATION CONTROL BUILDING ELEVATION

## REVISIONS:

NO.	DATE	DESCRIPTION
0	03/08/2023	ISSUED FOR 94-C PERMIT
1	07/24/2023	RE-ISSUED FOR 94-C PERMIT

**SOMERSET SOLAR PROJECT**  
**LAKE ROAD,  
SOMERSET NY**

## PROJECT LOCATION:

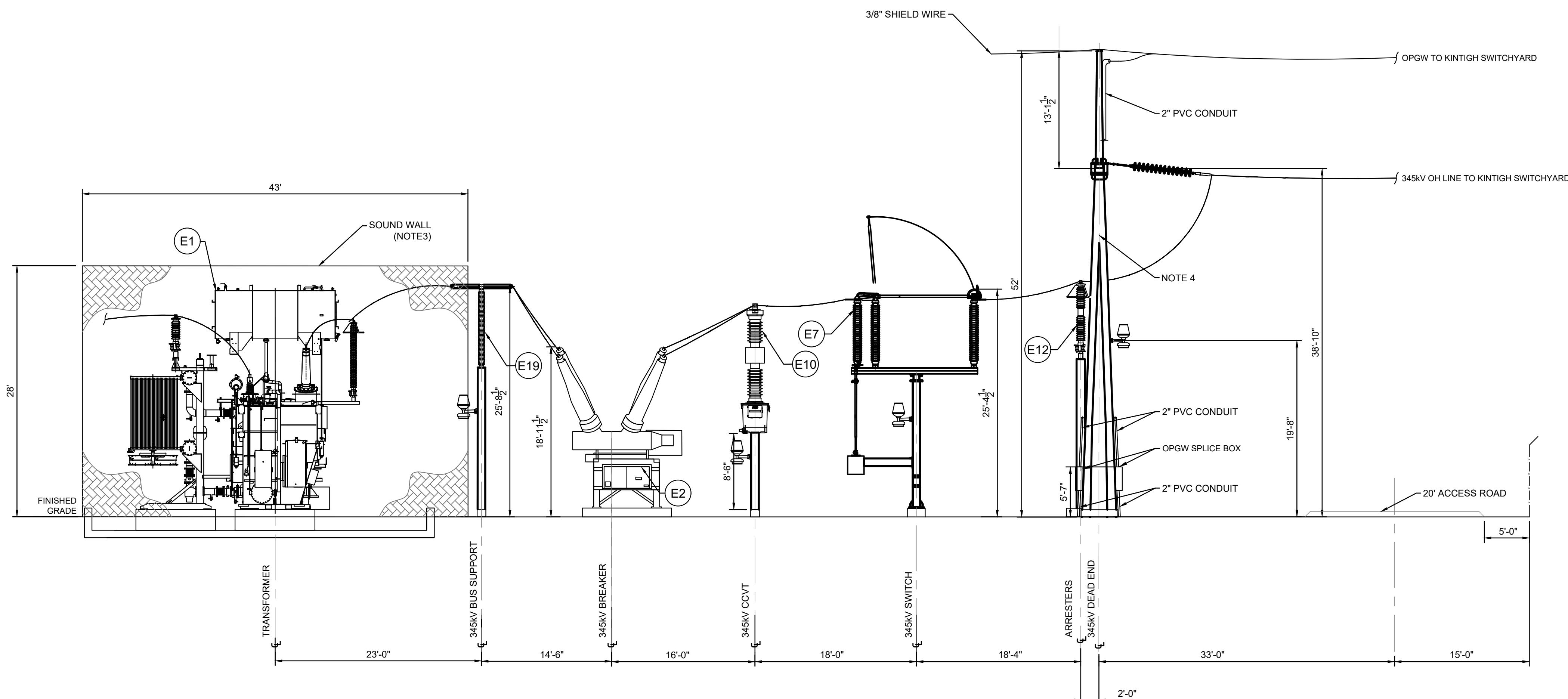
## SHEET TITLE &amp; DESCRIPTION:

## 345/34.5kV SUBSTATION

## GENERAL PLAN

PROJ. NUM:	SU20.0012
DES:	MIKE MAILLE
DWN:	MIKE MAILLE/KRINA GANDHI
CHK:	AZIN SHAHAB
APV:	ZHONG BING SHEN, P.E.
DATE:	02/17/2023
SCALE AT 22" x 34":	0 8' 16' 24' 32'
1/16" = 1'-0"	
SHEET NO:	HV-P.01.01
REV:	1

**ISSUED FOR 94-C PERMIT ONLY**  
**NOT FOR CONSTRUCTION**



SECTION A  
HV-P.01.01

NOTES	
1.	THIS IS A PRELIMINARY ELEVATION VIEW AND IS FOR PERMITTING PURPOSES ONLY.
2.	DESIGN IS PRELIMINARY AND SHALL BE FINALIZED AT DETAILED DESIGN PHASE.
3.	REFER TO DETAIL 7 ON SHEET C.10.05
4.	DEADEND TAKEOFF STRUCTURE MATERIAL IS GALVANIZED STEEL.

LEGEND	
	LIGHT (MAST/DEADEND)
	MATERIAL ITEM OR SUB ITEM NUMBER

MINIMUM CLEARANCE REQUIREMENT

345KV MINIMUM CLEARANCE (1300kV BIL):  
LIVE PARTS: Ø-G=10"  
Ø-g=11"  
TO GRADE: 18'-0" (BUS)  
30'-0" (DRIVEWAY)  
34.5kV MINIMUM CLEARANCE (200kV BIL):  
LIVE PARTS: Ø-G=13"  
Ø-g=18"  
TO GRADE: 10'-0" (BUS)  
22'-0" (DRIVEWAY)

DRAWING NUMBER	DRAWING DESCRIPTION
C.10.05	SOUND WALL DETAILS
HV-P.01.01	345/34.5kV SUBSTATION GENERAL ARRANGEMENT
HV-P.08.01	345/34.5kV SUBSTATION GROUNDING PLAN
HV-P.14.01	345/34.5kV SUBSTATION CONTROL BUILDING LAYOUT
HV-E.02.01	345/34.5kV SUBSTATION SWITCHING ONE-LINE DIAGRAM
HV-P.02.02	345/34.5kV SUBSTATION 34.5kV ELEVATION VIEW

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KEY PLAN:

REVISIONS:		
NO.	DATE	DESCRIPTION
0	03/08/2023	ISSUED FOR 94-C PERMIT
1	07/24/2023	RE-ISSUED FOR 94-C PERMIT

PROJECT TITLE:

SOMERSET SOLAR PROJECT

PROJECT LOCATION:

LAKE ROAD,  
SOMERSET NY

SHEET TITLE & DESCRIPTION:

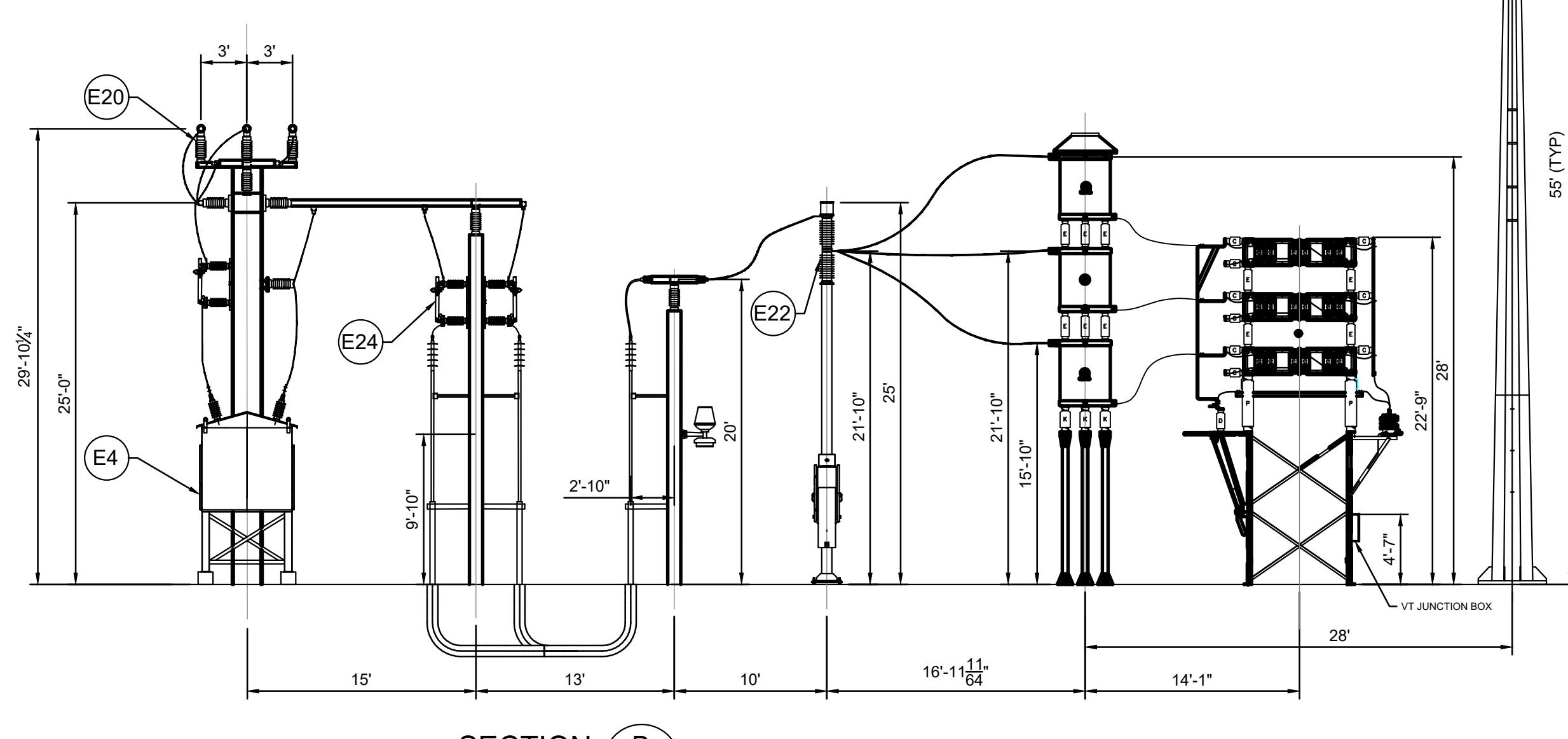
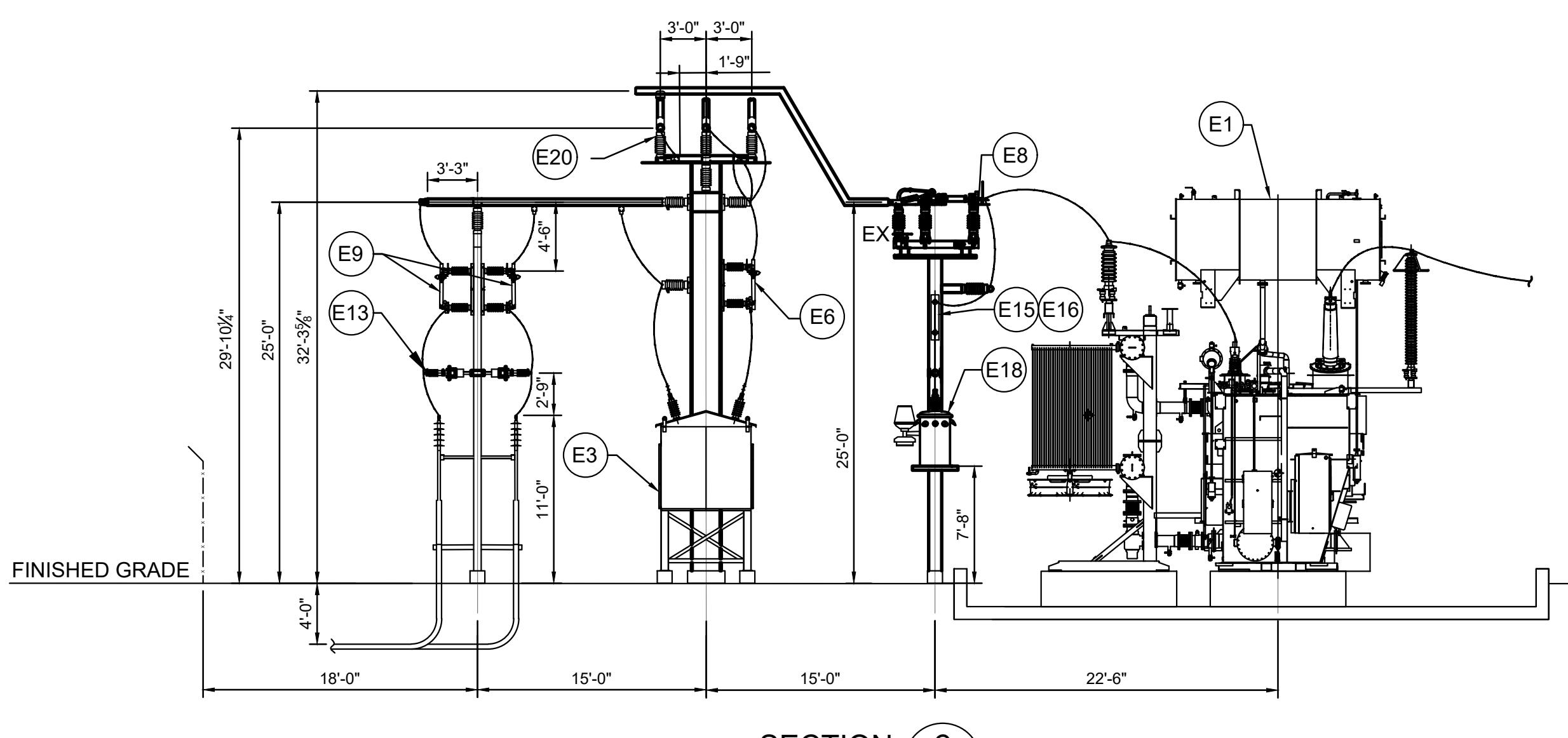
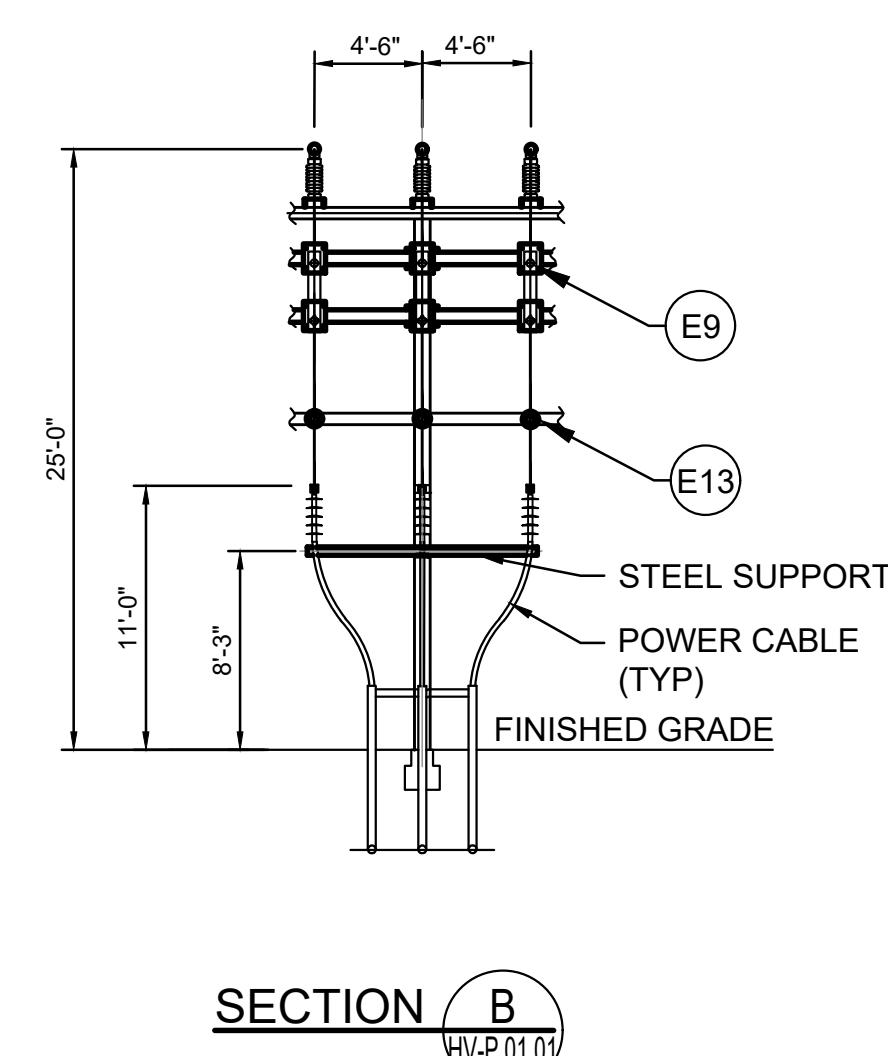
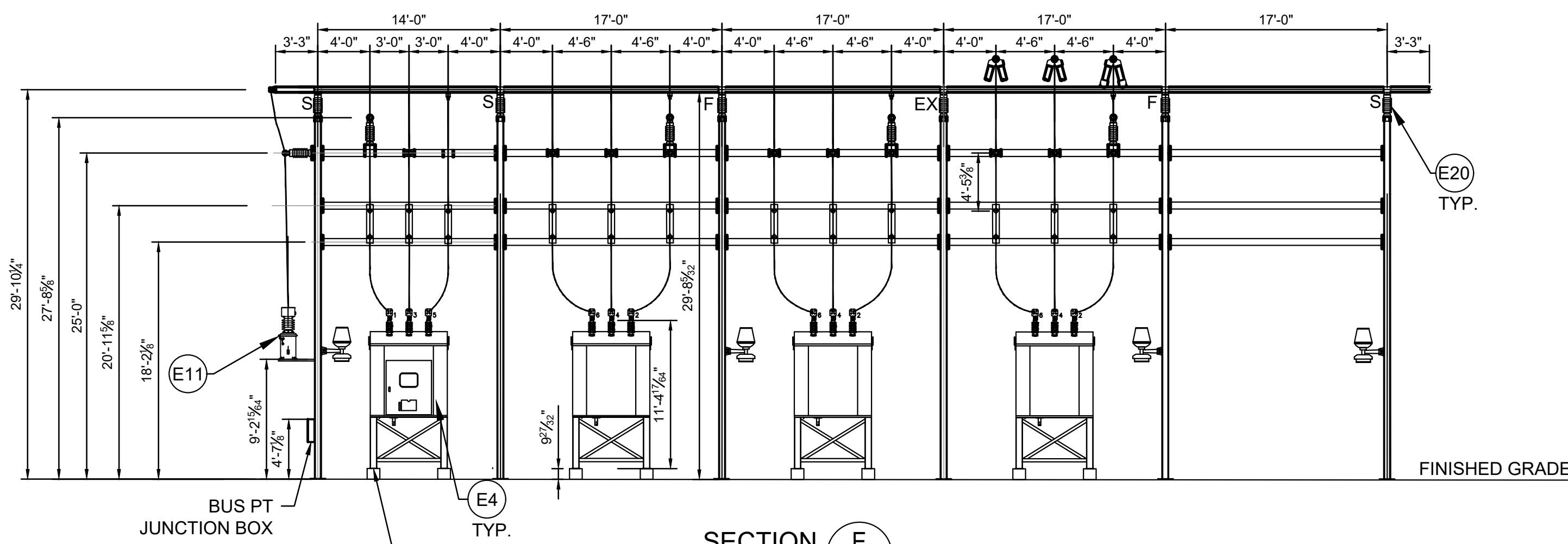
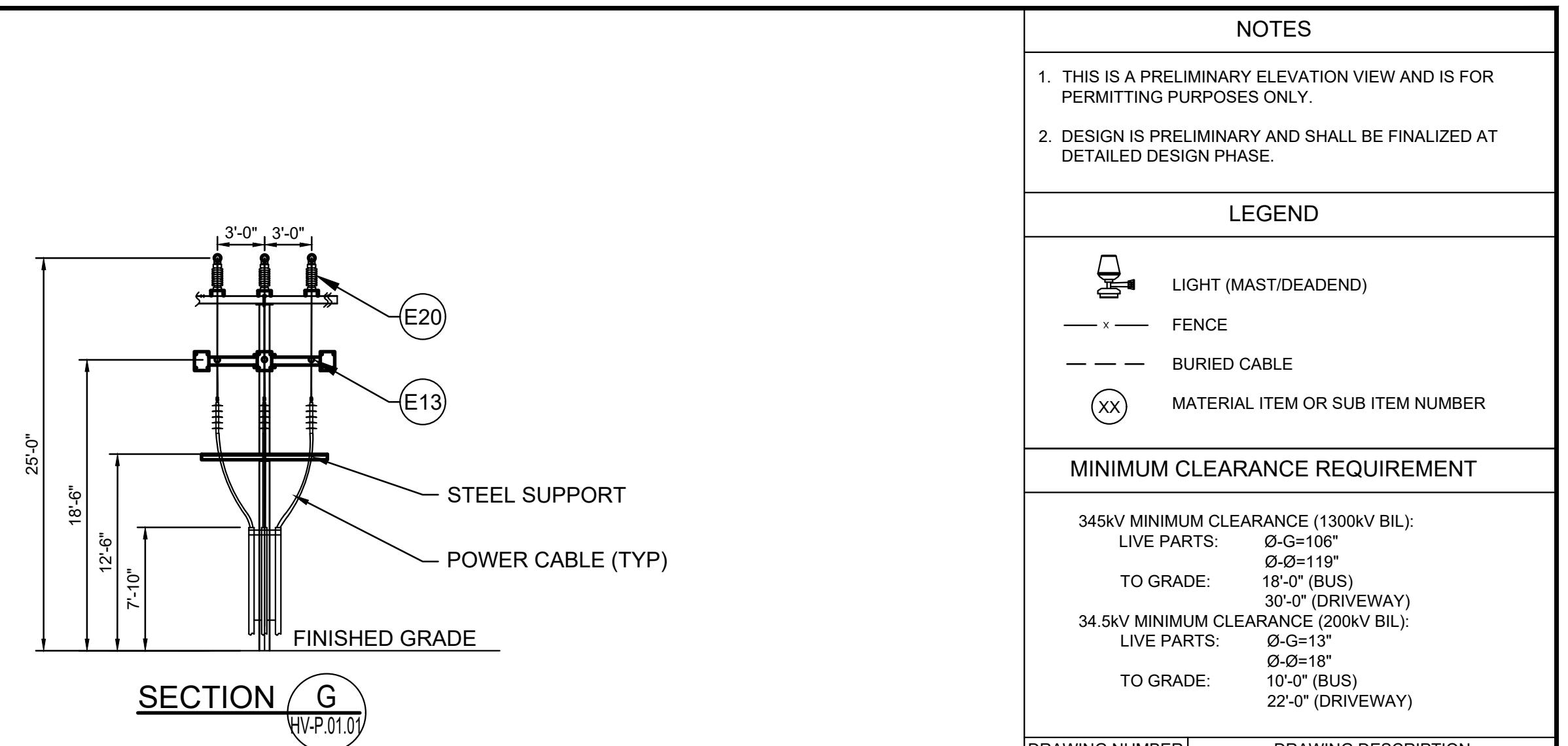
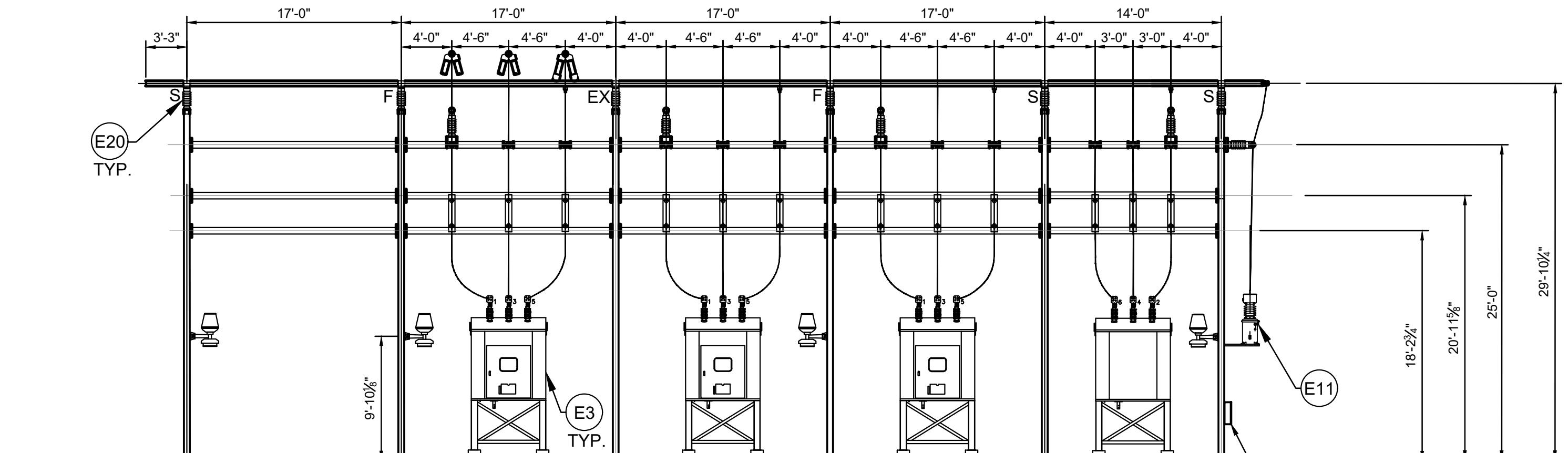
345/34.5kV SUBSTATION

345kV ELEVATION VIEW

PROJ NUM: SU20.0012  
DES: MIKE MAILLE  
DWN: MIKE MAILLE/KRINA GANDHI  
CHK: AZIN SHAHAB  
APV: ZHONG BING SHEN, P.E.  
DATE: 02/17/2023  
SCALE AT 22" x 34":  
0 8' 16' 24' 32'  
1/16" = 1'-0"

ISSUED FOR 94-C PERMIT ONLY  
NOT FOR CONSTRUCTION

SHEET NO: HV-P.02.01 REV: 1



**ISSUED FOR 94-C PERMIT ONLY**  
**NOT FOR CONSTRUCTION**

**NOTES**

1. THIS IS A PRELIMINARY ELEVATION VIEW AND IS FOR PERMITTING PURPOSES ONLY.
2. DESIGN IS PRELIMINARY AND SHALL BE FINALIZED AT DETAILED DESIGN PHASE.

**LEGEND**

	LIGHT (MAST/DEADEND)
	FENCE
	BURIED CABLE
	MATERIAL ITEM OR SUB ITEM NUMBER

**MINIMUM CLEARANCE REQUIREMENT**

34.5KV MINIMUM CLEARANCE (1300kV BIL):  
LIVE PARTS: 0'-0"-108"  
0'-0"-115"  
TO GRADE: 18'-0" (BUS)  
30'-0" (DRIVEWAY)  
34.5KV MINIMUM CLEARANCE (200kV BIL):  
LIVE PARTS: 0'-0"-131"  
0'-0"-181"  
TO GRADE: 10'-0" (BUS)  
22'-0" (DRIVEWAY)

DRAWING NUMBER	DRAWING DESCRIPTION
HV-P.01.01	345/34.5kV SUBSTATION GENERAL ARRANGEMENT
HV-P.08.01	345/34.5kV SUBSTATION GROUNDING PLAN
HV-P.14.01	345/34.5kV SUBSTATION CONTROL BUILDING LAYOUT
HV-P.02.01	345/34.5kV SUBSTATION 345kV ELEVATION VIEW
HV-E.02.01	345/34.5kV SUBSTATION SWITCHING ONE-LINE DIAGRAM

**KEY PLAN:****REVISIONS:**

NO.	DATE	DESCRIPTION
0	03/08/2023	ISSUED FOR 94-C PERMIT
1	07/24/2023	RE-ISSUED FOR 94-C PERMIT

**PROJECT TITLE:**

SOMERSET SOLAR  
PROJECT

**PROJECT LOCATION:**

LAKE ROAD,  
SOMERSET NY

**SHEET TITLE & DESCRIPTION:**

345/34.5kV SUBSTATION

34.5kV ELEVATION VIEW

PROJ. NUM.: SU20.0012

DES.: MIKE MAILLE

DWN: MIKE MAILLE/KRINA GANDHI

CHK: AZIN SHAHAB

APV: ZHONG BING SHEN, P.E.

DATE: 02/17/2023

SCALE AT 22" x 34":

0' 8' 16' 24' 32'  
1/16" = 1'-0"

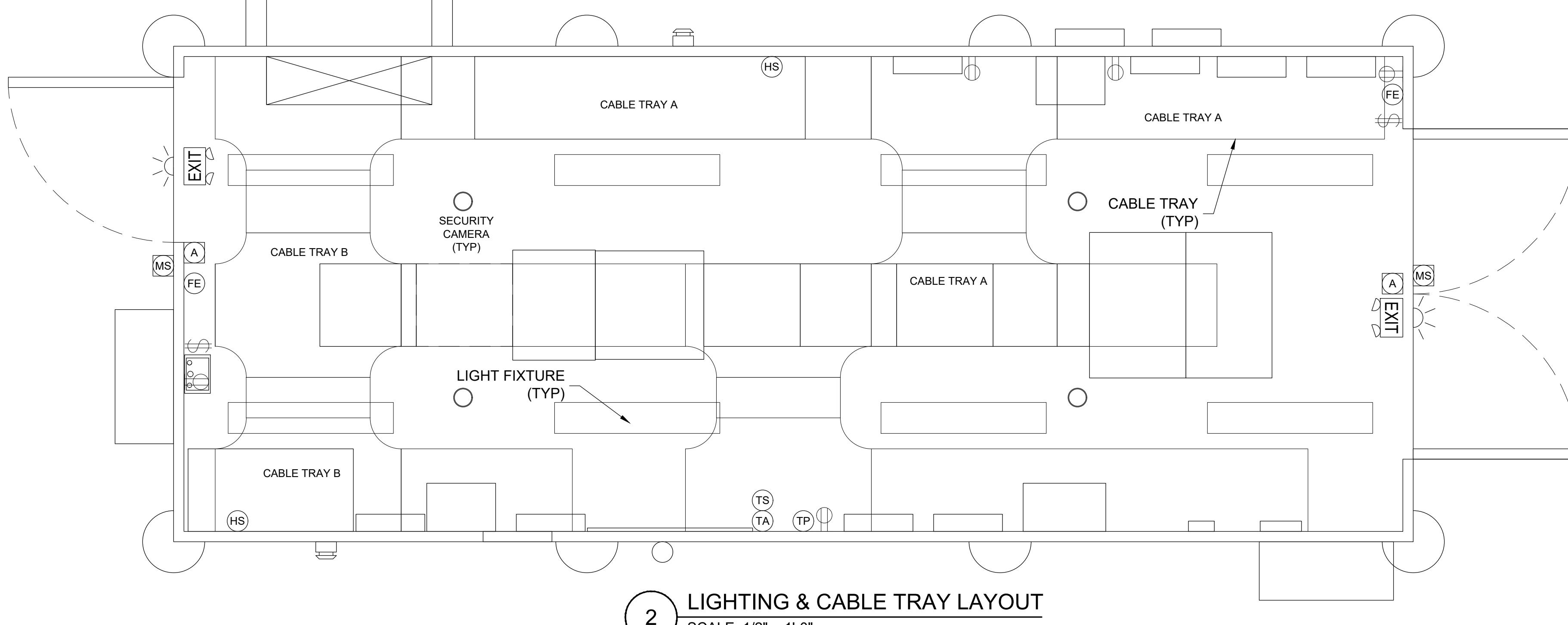
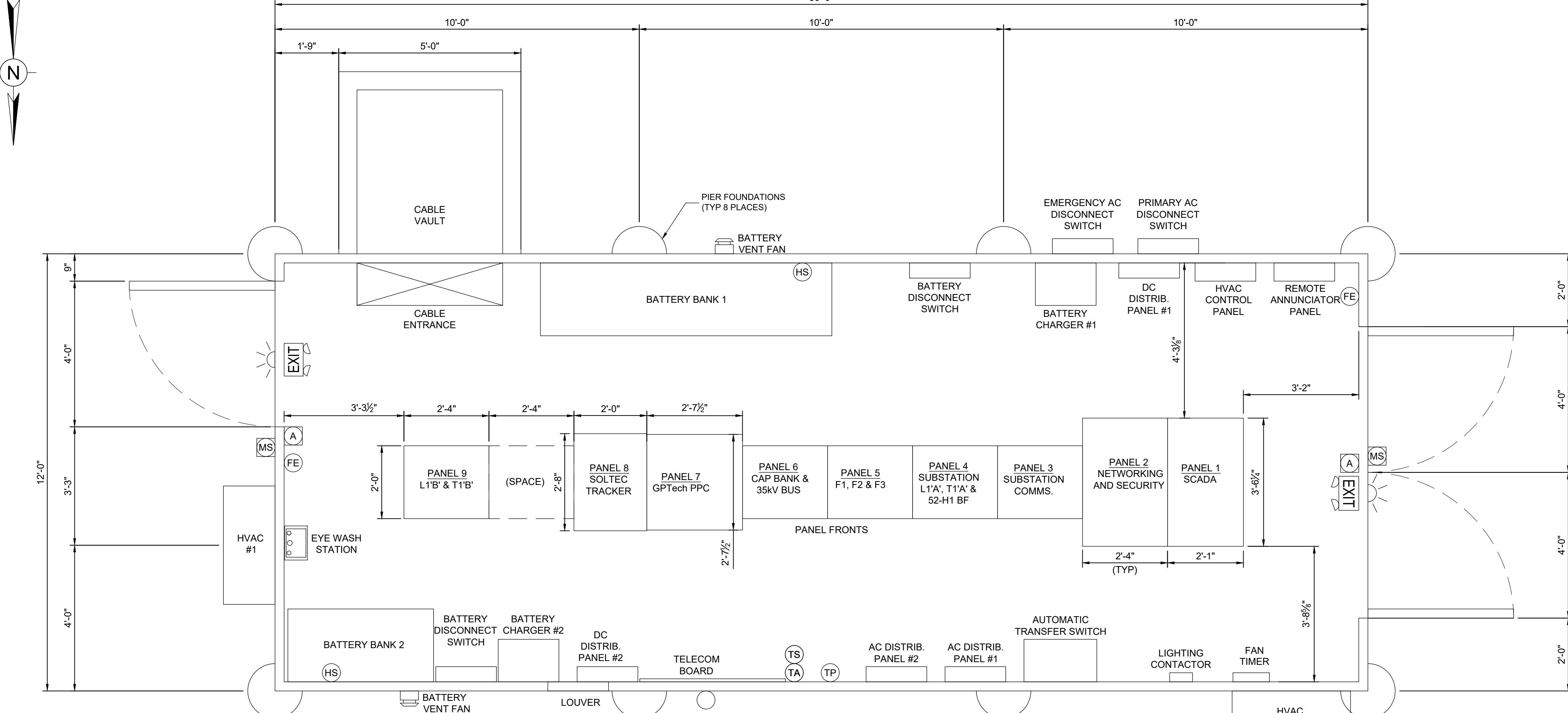
SHEET NO: HV-P.02.02 REV: 1

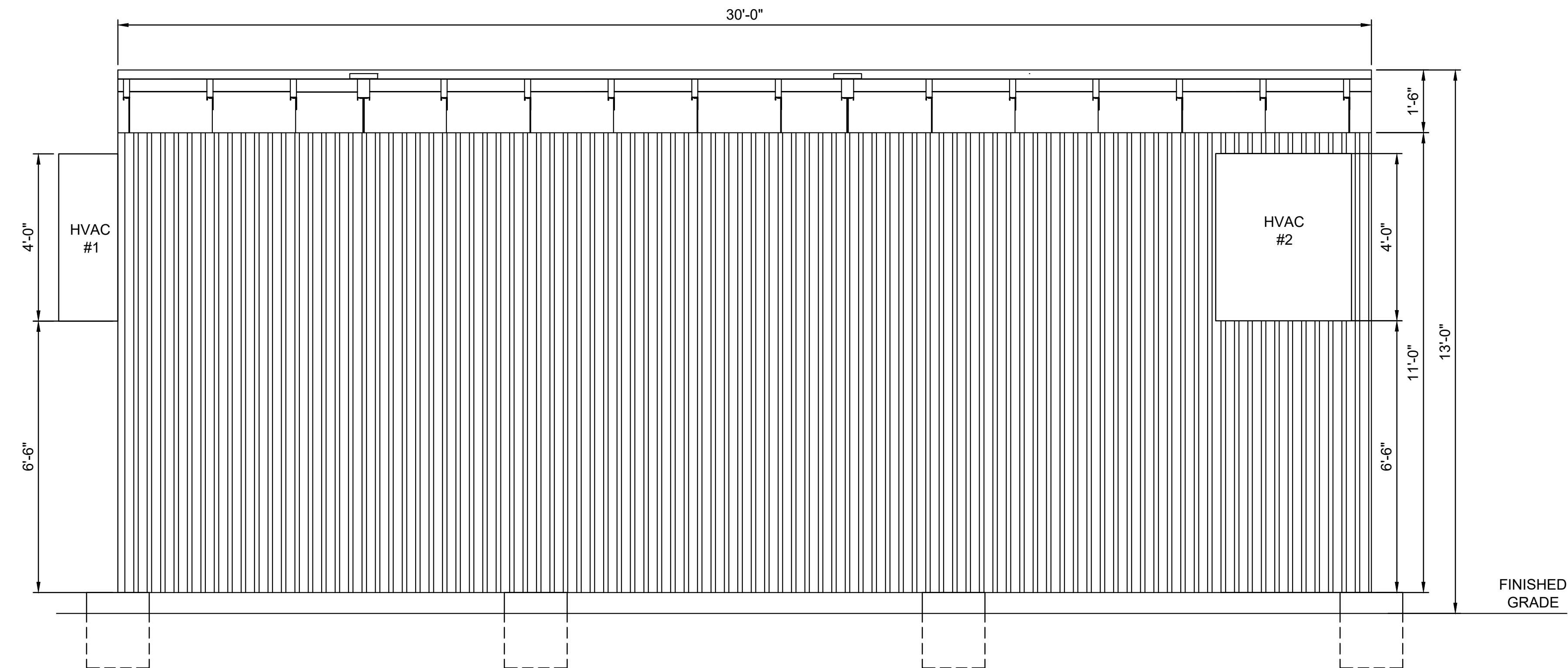
# aes

AES CLEAN ENERGY DEVELOPMENT, LLC  
29 MADISON AVENUE, 15TH FLOOR  
NEW YORK, NY 10017

**TETRA TECH**  
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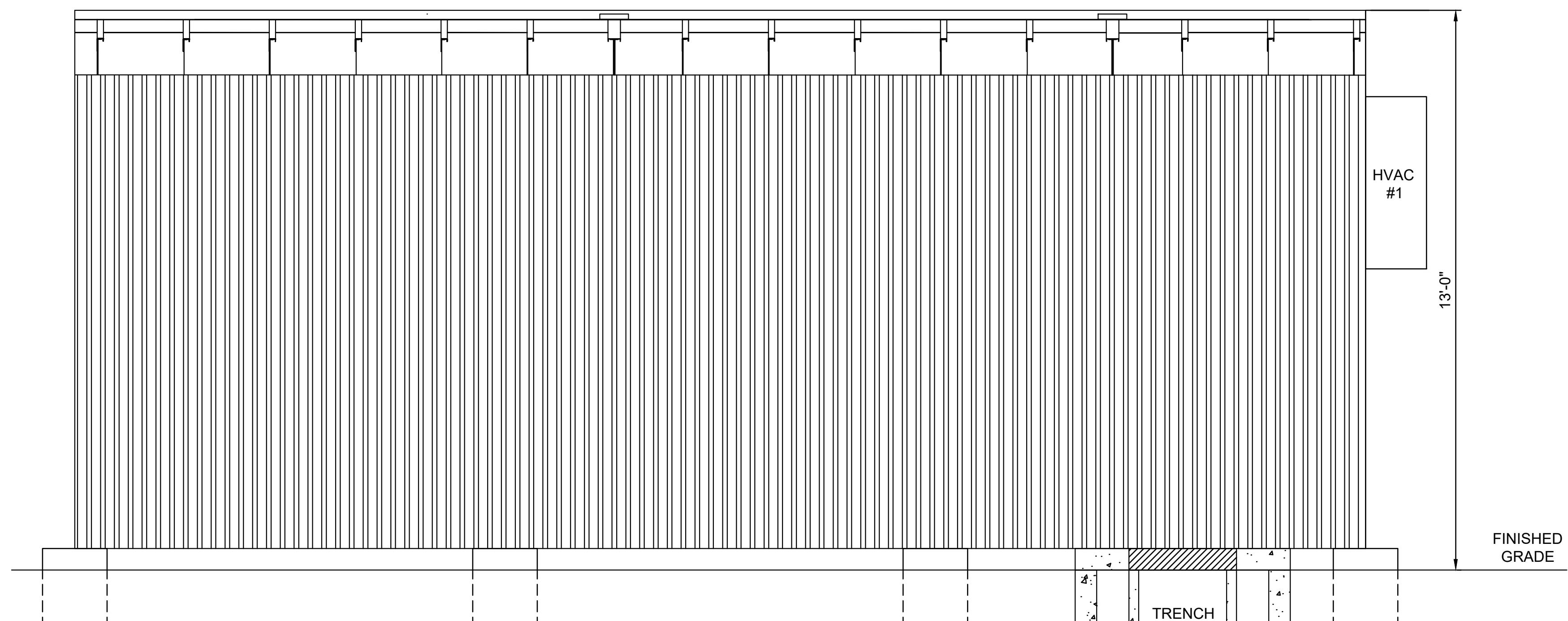






CONTROL BUILDING HVAC LOCATIONS ON EXTERIOR LAYOUT

**SECTION H**  
1/2" = 1'-0" HV-P.01.01



CONTROL BUILDING HVAC LOCATIONS ON EXTERIOR LAYOUT

**SECTION I**  
1/2" = 1'-0" HV-P.01.01

NOTES	
1.	THIS IS A PRELIMINARY CONTROL BUILDING EXTERIOR LAYOUT WITH THE INTENTION OF SHOWING HVAC LOCATIONS, AND IS FOR PERMITTING PURPOSES ONLY.
2.	DESIGN IS PRELIMINARY AND SHALL BE FINALIZED AT DETAILED DESIGN PHASE.
3.	CONTROL BUILDING COLOR IS GRAY, MATERIAL IS CORRUGATED STEEL.
DRAWING NUMBER	
HV-P.01.01	DRAWING DESCRIPTION 345/34.5kV SUBSTATION GENERAL PLAN
HV-P.02.01	345/34.5kV SUBSTATION 345kV ELEVATION VIEW
HV-P.02.02	345/34.5kV SUBSTATION 34.5kV ELEVATION VIEW
HV-P.08.01	345/34.5kV SUBSTATION GROUNDING PLAN
HV-P.14.01	345/34.5kV SUBSTATION CONTROL BUILDING LAYOUT
HV-E.02.01	345/34.5kV SUBSTATION SWITCHING ONE-LINE DIAGRAM

**aes**  
AES CLEAN ENERGY DEVELOPMENT, LLC  
292 MADISON AVENUE, 15TH FLOOR  
NEW YORK, NY 10017



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KEY PLAN:

REVISIONS:

NO.	DATE	DESCRIPTION
0	03/08/2023	ISSUED FOR 94-C PERMIT
1	07/24/2023	RE-ISSUED FOR 94-C PERMIT

PROJECT TITLE:

SOMERSET SOLAR PROJECT

PROJECT LOCATION:

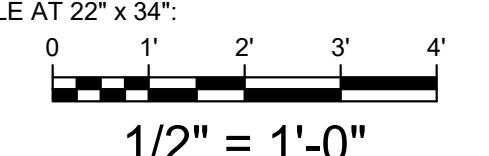
LAKE ROAD,  
SOMERSET NY

SHEET TITLE & DESCRIPTION:

345/34.5kV SUBSTATION

CONTROL BUILDING ELEVATION

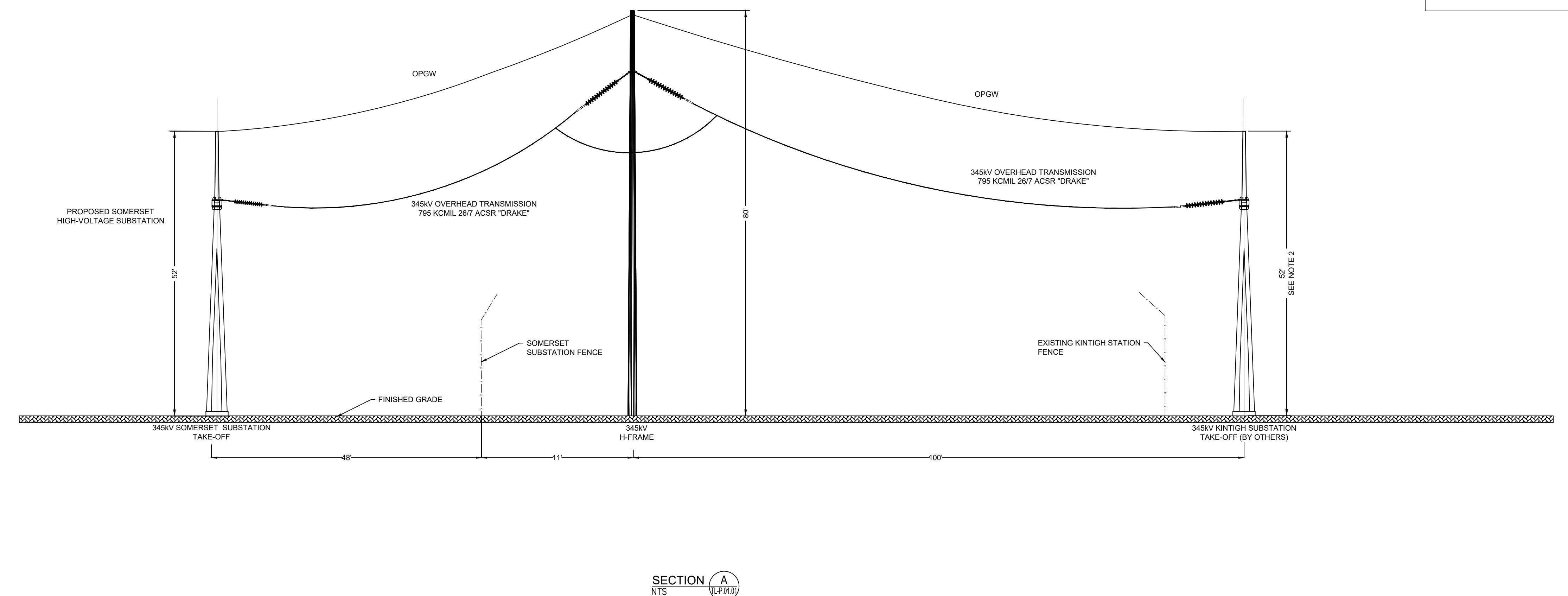
PROJ. NUM.: SU20.0012  
DES.: KRINA GANDHI  
DWN.: KRINA GANDHI  
CHK.: AZIN SHAHAB  
APV.: ZHONG BING SHEN, P.E.  
DATE: 02/17/2023  
SCALE AT 22" x 34":



1/2" = 1'-0"

ISSUED FOR 94-C PERMIT ONLY  
NOT FOR CONSTRUCTION

SHEET NO: HV-P.15.01 REV: 1



NOTES	
1.	DESIGN IS PRELIMINARY.
2.	HEIGHT OF PROPOSED TAKE-OFF ASSUMED TO BE SAME AS COLLECTOR SYSTEM TAKE-OFF.
3.	PER ASSUMPTIONS LOG (REVIEWED BY AES), KINTIGH STATION WILL BE EXPANDED TO ACCOMODATE GEN-TIE INTERCONNECTION. PROPOSED FENCELINE LOCATION IS ASSUMED TO BE 17'-0" FROM THE TRANSMISSION LINE STRUCTURE H-FRAME.
4.	GEN-TIE SCOPE LINE OF DEMARCTION IS THE DEADEND CABLE CONNECTIONS ON COLLECTOR SIDE OF STRUCTURE. JUMPERS AND CONNECTION TO KINTIGH STATION ARE BY OTHERS.
5.	DIMENSIONS ARE APPROXIMATE.
6.	SOMERSET SUBSTATION TAKE-OFF DETAILS PROVIDED IN HV-P.01.01 AND HV-P.02.01
7.	KINTIGH SUBSTATION TAKE-OFF BY NYSEG, AS SUCH STRUCTURE DETAILS CANNOT BE PROVIDED.

REFERENCE DRAWINGS

HV-P.02.01 - 345/34.5kV SUBSTATION 345kV ELEVATION VIEW

TL-P.00.01 - 345kV GEN-TIE TRANSMISSION LINE ROUTE MAP

TL-P.02.01 - 345kV GEN-TIE TRANSMISSION LINE WOOD H-FRAME FRAMING

aes  
AES CLEAN ENERGY DEVELOPMENT, LLC  
292 MADISON AVENUE, 15TH FLOOR,  
NEW YORK, NY 10017



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KEY PLAN:

REVISIONS:

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1	07/24/2023	RE-ISSUED FOR 94-C PERMIT

PROJECT TITLE:

SOMERSET SOLAR PROJECT

PROJECT LOCATION:

LAKE ROAD  
SOMERSET, NY

SHEET TITLE & DESCRIPTION:

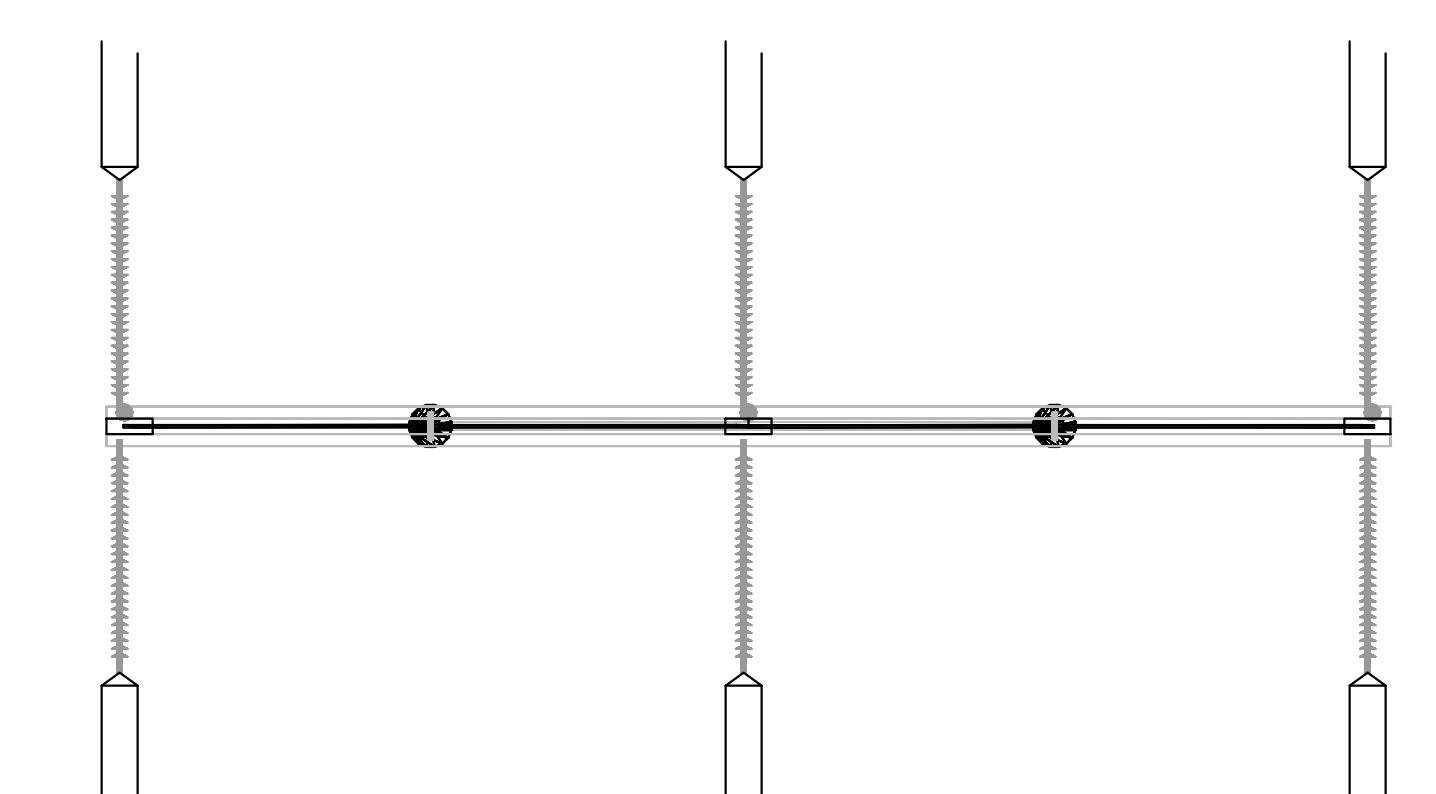
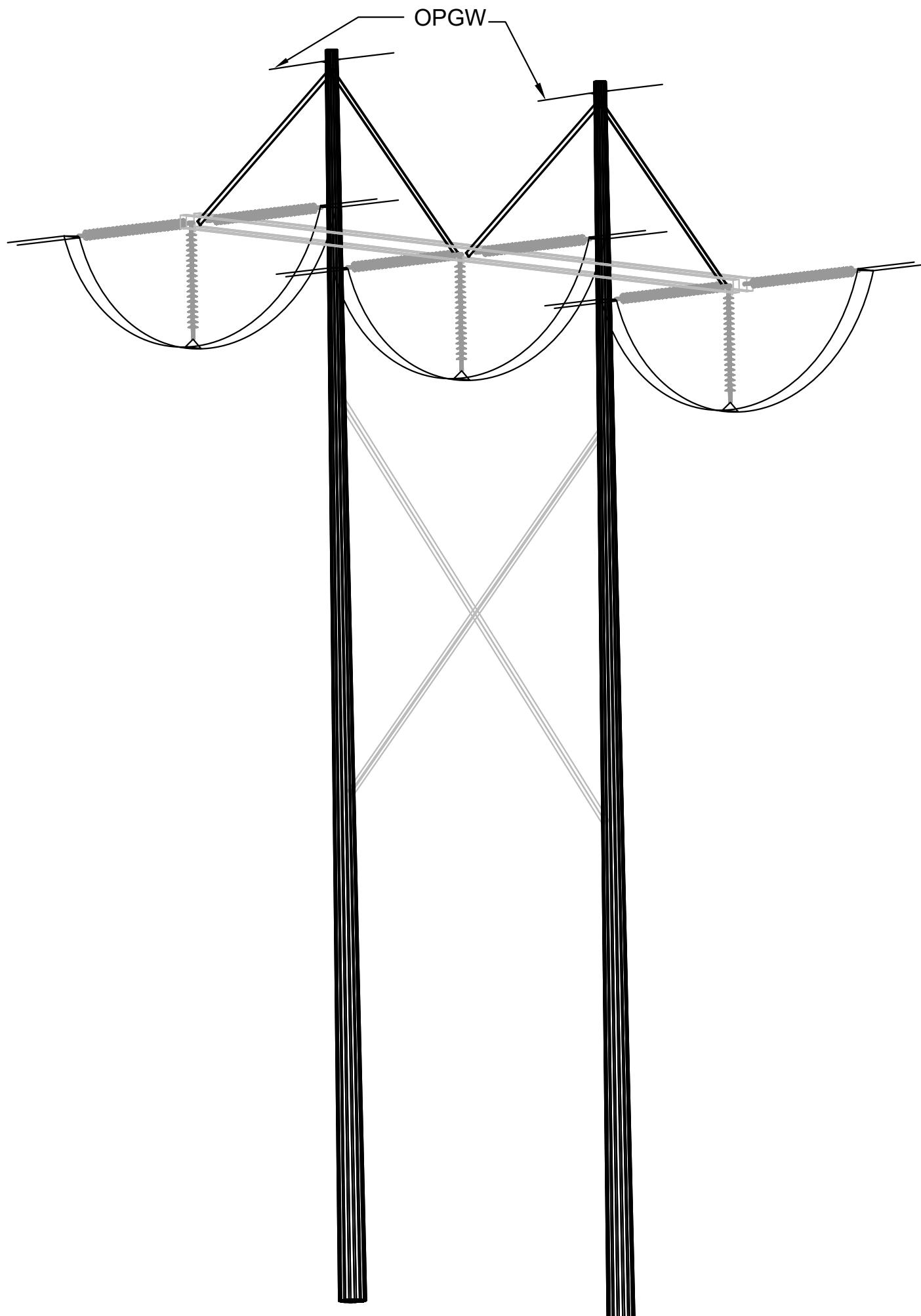
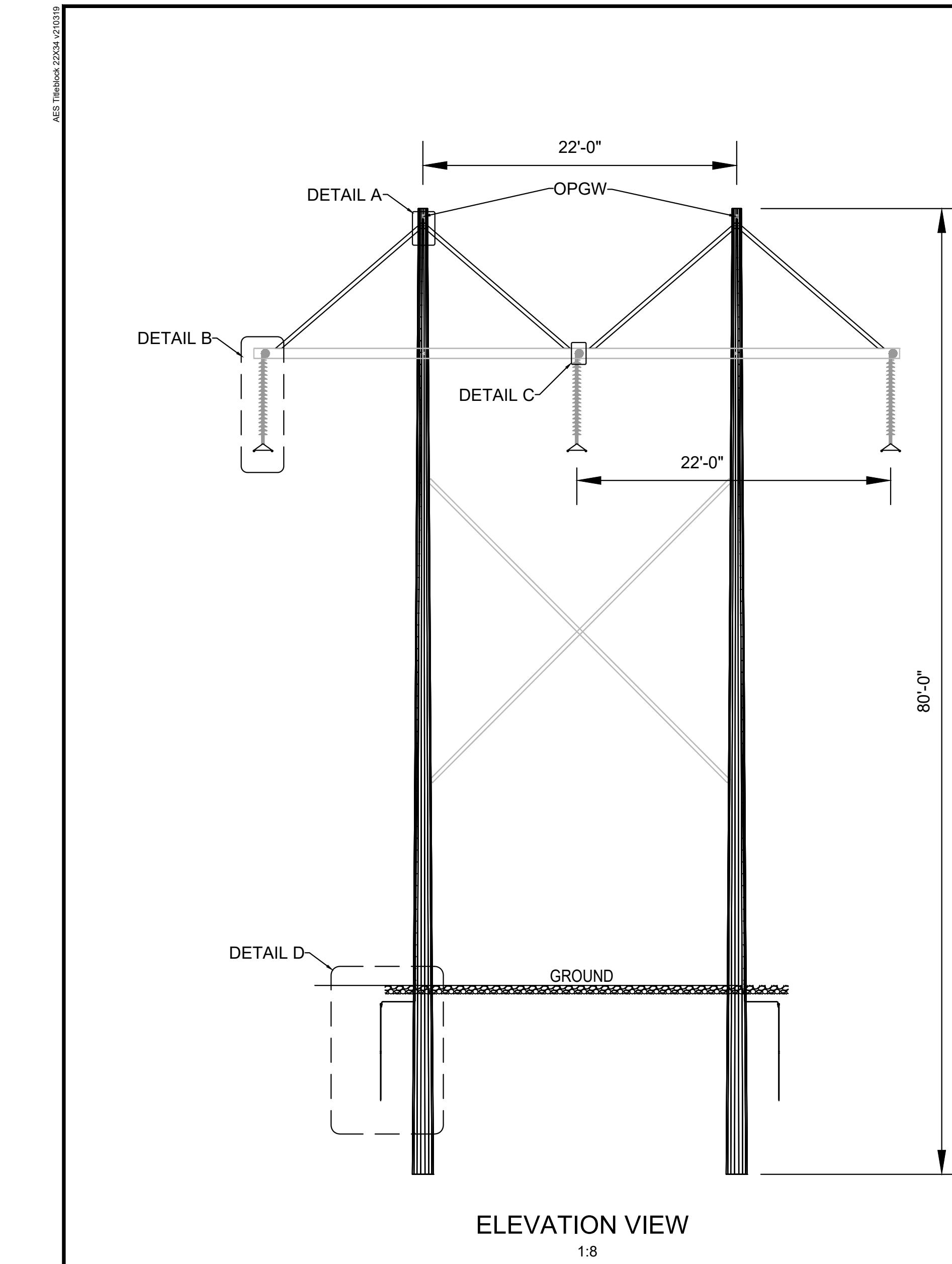
345kV GEN-TIE  
TRANSMISSION LINE

ELEVATION VIEW

PROJ. NUM:	SU20.0012
DES:	HAMD GATO
DWN:	HAMD GATO
CHK:	JON LEMON, P.E.
APV:	JON LEMON, P.E.
DATE:	07/22/2022
SCALE:	

N.T.S

ISSUED FOR 94-C PERMIT ONLY  
NOT FOR CONSTRUCTION



NOTES	
1.	DESIGN IS PRELIMINARY.
2.	CONDUCTOR SIZE SELECTED IS ACSR 795kcmil DRAKE.
3.	SFPOC/SFSJ-J-13587 IS SELECTED FOR OPGW.
4.	TYPICAL EMBEDMENT IS 10% POLE LENGTH + 2 FT.

## REFERENCE DRAWINGS

TL-P.00.01 - 345kV GEN-TIE TRANSMISSION LINE ROUTE MAP  
TL-P.01.01 - 345kV GEN-TIE TRANSMISSION LINE ELEVATION VIEW



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## KEY PLAN:

## REVISIONS:

NO.	DATE	DESCRIPTION
0	03/08/2023	ISSUED FOR 94-C PERMIT
1	07/24/2023	RE-ISSUED FOR 94-C PERMIT

## PROJECT TITLE:

SOMERSET SOLAR  
PROJECT

## PROJECT LOCATION:

LAKE ROAD  
SOMERSET, NY

## SHEET TITLE &amp; DESCRIPTION:

345kV GEN-TIE  
TRANSMISSION LINE

WOOD H-FRAME  
FRAMING DRAWING

PROJ. NUM.: SU20.0012  
DES.: HAMDI GATO  
DWN.: HAMDI GATO  
CHK.: JON LEMON, P.E.  
APV.: JON LEMON, P.E.  
DATE: 07/22/2022  
SCALE:

N.T.S

SHEET NO.: TL-P.02.01-SHEET 1OF3 | REV: 1



Photo 1. Control Building Example #1



Photo 2. Control Building Example #1



5/1/23 2:55:33 PM CDT

Photo 3. Control Building Example #2



7/14/23 10:39:38 AM CDT

Photo 4. Control Building Example #2