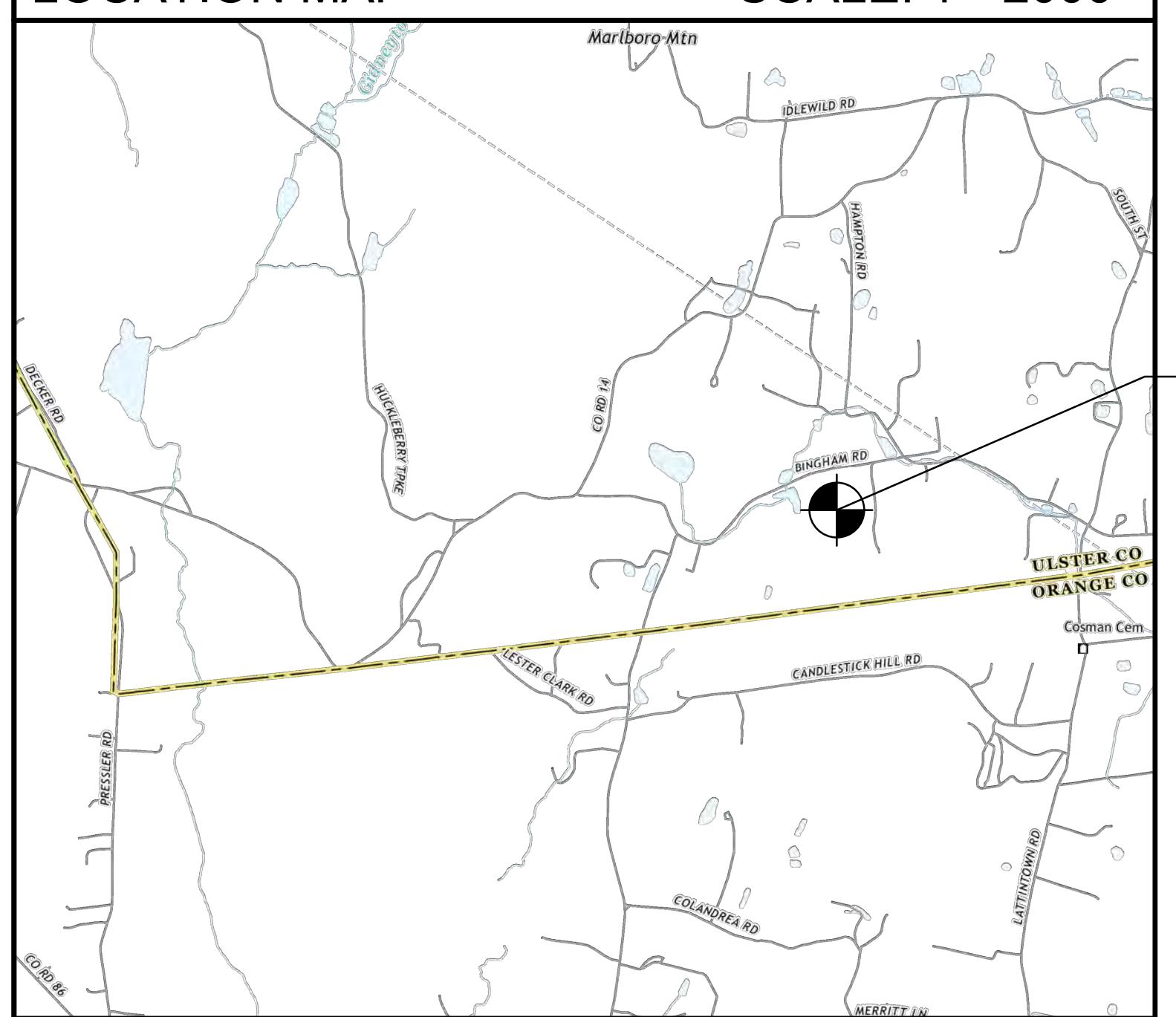


LOCATION MAP

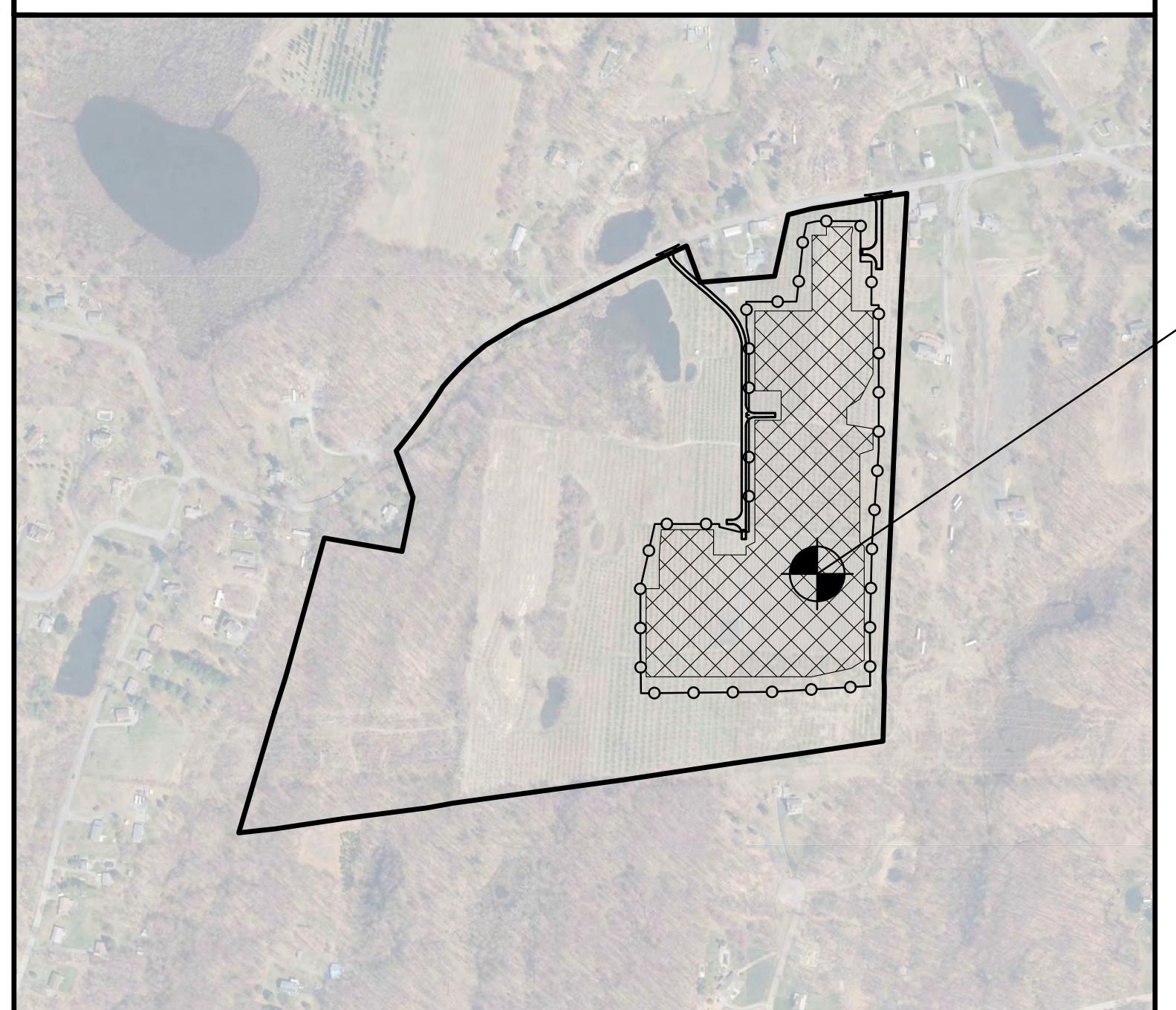
SCALE: 1"=2000'



SITE LOCATION

LOCATION MAP

SCALE: 1"=500'



ARRAY LOCATION

DRAWINGS:

C-001 TITLE SHEET

C-002 LEGEND & NOTES

C-101 SITE PLAN - EXISTING CONDITIONS

C-102 SITE PLAN - PROPOSED SITE PLAN

C-103 SITE PLAN - PROPOSED GRADING & UTILITIES - 1

C-104 SITE PLAN - PROPOSED GRADING & UTILITIES - 2

C-105 SITE PLAN - PROPOSED GRADING & UTILITIES - 3

C-106 SITE PLAN - TEMPORARY EROSION & SEDIMENT CONTROL PLAN

C-501 CIVIL DETAILS - SHEET 1

C-502 CIVIL DETAILS - SHEET 2

ELP MARLBOROUGH SOLAR

SITE ADDRESS: 335 BINGHAM ROAD, MARLBOROUGH, NY 12542

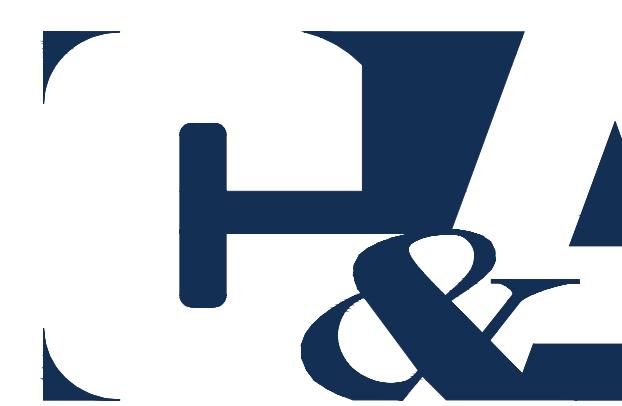
TAX MAP ID: 108.3-3-21

PROPOSED USE: LARGE SCALE SOLAR ENERGY SYSTEM (5MW-AC)

DEVELOPER:

ELP MARLBOROUGH SOLAR LLC
14 ARROW STREET, SUITE 22
CAMBRIDGE, MA 02138

ENGINEER:



CRAWFORD & ASSOCIATES

ENGINEERING & LAND SURVEYING, PC

1 Hudson City Centre #300, Hudson New York 12534 tel: (518) 828-2700

fax: (518) 828-2723

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C&A #: 4996.26

DATE: APRIL 5, 2024

REVISED: JULY 3, 2024

REVISED: SEPTEMBER 6, 2024

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CONSTRUCTION

LEGEND

— — — — EXISTING PROPERTY LINE		EXISTING/PROPOSED RAILROAD TRACK
— — — — PROPOSED LOT LINE		EXISTING/PROPOSED ROAD EDGE
— — — — EXISTING/PROPOSED EASEMENT / RIGHT OF WAY		EXISTING/PROPOSED ROAD CENTERLINE
· · · · · EXISTING/PROPOSED ZONING SETBACK		EXISTING/PROPOSED ROAD FOGLINE
— — — — EXISTING/PROPOSED ZONING / JURISDICTIONAL BOUNDARY		EXISTING/PROPOSED PARKING LOT EDGE
— — — — PROPOSED LIMITS OF DISTURBANCE		EXISTING/PROPOSED PARKING LOT STRIPING
STA BM 1208.50		EXISTING SURVEY STATION (HORIZONTAL DATUM)
EXISTING SURVEY BENCHMARK (VERTICAL DATUM)		EXISTING SURVEY BENCHMARK (VERTICAL DATUM)
1208		EXISTING CONTOUR MINOR INTERVAL
1210		EXISTING CONTOUR MAJOR INTERVAL
1208		PROPOSED CONTOUR MINOR INTERVAL
1210		PROPOSED CONTOUR MAJOR INTERVAL
1208.75 + 1210.25 +		EXISTING/PROPOSED SPOT ELEVATION
EXISTING SOILS		EXISTING SOILS
PT1 DT1 SB1		EXISTING SOIL PERCOLATION TEST
EXISTING SOIL DEEP TEST PIT		EXISTING SOIL DEEP TEST PIT
EXISTING SOIL BORING		EXISTING SOIL BORING
— — — — EXISTING WATERBODY		EXISTING WATERBODY
— — — — PROPOSED WATERBODY		PROPOSED WATERBODY
— — — — EXISTING FLOODWAY		EXISTING FLOODWAY
— — — — EXISTING 100 YEAR FLOODPLAIN		EXISTING 100 YEAR FLOODPLAIN
— — — — EXISTING 500 YEAR FLOODPLAIN		EXISTING 500 YEAR FLOODPLAIN
— — — — EXISTING FEDERAL WETLAND BOUNDARY		EXISTING FEDERAL WETLAND BOUNDARY
— — — — EXISTING STATE WETLAND BOUNDARY		EXISTING STATE WETLAND BOUNDARY
— — — — EXISTING STATE WETLAND 100' ADJACENT AREA		EXISTING STATE WETLAND 100' ADJACENT AREA
— — — — EXISTING STATE WETLAND 500' CHECKZONE		EXISTING STATE WETLAND 500' CHECKZONE
		EXISTING WETLAND HATCH
		PROPOSED WETLAND/100' ADJACENT AREA IMPACT HATCH
		PROPOSED WETLAND MITIGATION HATCH
— — — — PRE/POST- DEVELOPMENT DRAINAGE AREAS		PRE/POST- DEVELOPMENT DRAINAGE AREAS
— — — — PRE/POST- DEVELOPMENT TIME OF CONCENTRATION		PRE/POST- DEVELOPMENT TIME OF CONCENTRATION
— — — — EXISTING/PROPOSED SWALE CENTERLINE		EXISTING/PROPOSED SWALE CENTERLINE
— ST — ST — EXISTING/PROPOSED CULVERT W/ FLARED END SECTION		EXISTING/PROPOSED CULVERT W/ FLARED END SECTION
— ST — ST — EXISTING/PROPOSED STORMWATER LINE		EXISTING/PROPOSED STORMWATER LINE
CB CB EXISTING/PROPOSED STORMWATER CATCH BASIN		EXISTING/PROPOSED STORMWATER CATCH BASIN
MH MH EXISTING/PROPOSED STORMWATER MANHOLE		EXISTING/PROPOSED STORMWATER MANHOLE
TD TD EXISTING/PROPOSED STORMWATER YARD DRAIN		EXISTING/PROPOSED STORMWATER YARD DRAIN
— — — — PROPOSED SILT FENCE		PROPOSED SILT FENCE
— — — — PROPOSED FILTER SOCK		PROPOSED FILTER SOCK
— — — — EXISTING/PROPOSED TREELINE		EXISTING/PROPOSED TREELINE
— — — — EXISTING/PROPOSED CONIFER TREE		EXISTING/PROPOSED CONIFER TREE
— — — — EXISTING/PROPOSED DECIDUOUS TREE		EXISTING/PROPOSED DECIDUOUS TREE

SITE PLAN NOTES:

1. ORTHOGRAPHIC IMAGERY DOWNLOADED FROM NYS GIS CLEARINGHOUSE. IMAGERY PUBLISHED SEPTEMBER 2023, ACCESSED BY C&A NOVEMBER 2023.
2. BACKGROUND DRAWING & TOPOGRAPHIC CONTOURS TAKEN FROM SURVEY TITLED "MAP OF A PORTION OF LANDS OF TRUNCAL PREPARED FOR ELP MARLBOROUGH SOLAR LLC, SBL:108.3-3-21, ULSTER COUNTY, STATE OF NY" DATED APRIL 22, 2024, PREPARED BY CONTROL POINT ASSOCIATES, INC., P.C.
3. ADJACENT PROPERTY BOUNDARIES DOWNLOADED FROM ULSTER COUNTY GIS DATABASE IN AUGUST 2023. SELECT BOUNDARIES ADJUSTED BY C&A TO REFLECT EXPECTED LOCATIONS OF INTERSECTION WITH SURVEYED BOUNDARY LINE.
4. EXISTING SITE FEATURES SUCH AS BUILDING LOCATIONS, DRIVEWAYS, ROADS, OVERHEAD UTILITIES, AND TREELINES OUTSIDE SURVEY AREA ESTIMATED FROM ORTHOGRAPHIC IMAGERY.
5. NWI POTENTIAL WETLAND BOUNDARIES DOWNLOADED FROM NATIONAL WETLANDS INVENTORY, ACCESSED NOVEMBER 2023.
6. FEMA NFHL CHECKED IN JANUARY 2024 AND NO FLOOD HAZARDS WERE IDENTIFIED WITHIN THE PROJECT AREA. PROJECT FALLS WITHIN FIRM PANEL #3611C0900F.
7. PROPOSED SOLAR FACILITY LAYOUT FROM DRAWING TITLED "PRELIMINARY PV SITE PLAN" PREPARED BY CS ENERGY DATED MARCH 2, 2023, AMENDED BY C&A PER VCR MARKUP PROVIDED ON 8/23/24.

PROPOSED SITE PLAN NOTES:

1. THE PROPOSED SOLAR ENERGY SYSTEM INSTALLATION SHALL BE PERFORMED BY A QUALIFIED SOLAR INSTALLER.
2. THE PROPOSED SOLAR ENERGY SYSTEM WILL MEET NEW YORK'S UNIFORM FIRE PREVENTION AND BUILDING CODE AND NATIONAL ELECTRICAL CODE STANDARDS.
3. PRIOR TO OPERATION OF THE SOLAR ENERGY SYSTEM, WRITTEN PROOF THAT ELECTRICAL CONNECTIONS HAVE BEEN INSPECTED AND APPROVED BY AN APPROPRIATE ELECTRICAL INSPECTION PERSON OR AGENCY, AS DETERMINED BY THE TOWN OF MARLBOROUGH WILL BE PROVIDED.
4. A MAP SHOWING THE LOCATIONS OF THE MAJOR COMPONENTS OF THE SOLAR SYSTEM INCLUDING THE LOCATION OF THE ARRAY, EQUIPMENT PADS, MAIN TRENCH LOCATIONS, AND DISCONNECTS SHALL BE POSTED AT THE FACILITIES ENTRANCE AND PROVIDED TO THE LOCAL FIRE DEPARTMENT OBLIGATED TO RESPOND TO A CALL AT THE FACILITY.
5. THE SOLAR PANELS SHALL NOT EXCEED 15' IN HEIGHT.
6. BUILDING SETBACK REQUIREMENTS SHALL BE AS STATED FOR THE RAG-1 (RURAL AGRICULTURAL DISTRICT) AS SHOWN IN THE ZONING TABLE BELOW. INVERTERS SHALL BE SET BACK THE LESSER OF 100 FEET OR UNTIL THE ELECTROMAGNETIC FIELD (EMF) MEETS BACKGROUND LEVEL, AS DETERMINED BY THE WORLD HEALTH ORGANIZATION (WHO).
7. COMMERCIAL SOLAR FACILITY'S AREA OF USE, AS DEFINED IN CODE SECTION 165-32.2 (B) EQUATES TO APPROXIMATELY 16.2 ACRES.
8. NONINVASIVE GROUND COVER UNDER AND BETWEEN THE ROWS OF SOLAR PANELS SHALL BE LOW-MAINTENANCE, DROUGHT-RESISTANT, AND NON-FERTILIZER-DEPENDENT. SEE SEEDING PLAN ON C-501 FOR MORE DETAILS.
9. THE SOLAR ENERGY SYSTEM SHALL BE ENCLOSED BY A MINIMUM 8' TALL PERIMETER FENCE AND SHALL BE AN AGRICULTURAL STYLE FENCE CONSISTING OF WOODEN POSTS AND WOVEN WIRE. WARNING SIGNS WITH THE OWNER'S CONTACT INFORMATION WILL BE PLACED ON THE ENTRANCE AND PERIMETER OF THE FENCING.
10. A SIGN NO GREATER THAN TWO SQUARE FEET INDICATING THE NAME OF THE FACILITY OWNER(S) AND A TWENTY-FOUR-HOUR EMERGENCY TELEPHONE NUMBER SHALL BE POSTED. IN ADDITION, "NO TRESPASSING" OR OTHER WARNING SIGNS MAY BE POSTED.
11. THE OWNER WILL BE RESPONSIBLE FOR UPKEEP OF THE SOLAR FACILITY, INCLUDING ALL NECESSARY MAINTENANCE OF THE SYSTEM & PROPERTY INCLUDING MOWING AND TRIMMING IN AND AROUND THE FACILITY.
12. THE OWNER SHALL PREPARE AND COMPLY WITH A DECOMMISSIONING PLAN AS DETAILED IN THE TOWN OF MARLBOROUGH, NY, SUPPLEMENTARY REGULATIONS SECTION 155-32.2.
13. ALL TEMPORARILY STOCKPILED MATERIAL GENERATED BY CONSTRUCTION OF THE FACILITY WILL BE REMOVED FROM THE SITE IN A TIMELY MANNER.

SITE DATA / ZONING SUMMARY			
TAX ID NUMBER: 108.3-21 (+/- 80 ACRES)			
ZONING DISTRICT			RAG-1 (RURAL AGRICULTURAL DISTRICT)
USE CLASSIFICATION			LARGE SCALE SOLAR ENERGY SYSTEM (5 MW-AC)
REQUIRED	PROPOSED		
MINIMUM LOT SIZE	1 ACRE	+/- 80 ACRES	
LOT COVERAGE, MAX.	50% ¹	10.5% ²	
LOT WIDTH (FT)	150'	1845'	
LOT DEPTH (FT)	200'	1480'	
BUILDING HEIGHT (FT), MAX	15' ³	<15'	
YARD SETBACKS - MINIMUM (FT)			
FRONT	50'	50'	
SIDE (ONE)	35'	35'	
SIDE (BOTH)	80'	80'	
REAR	75'	>100'	

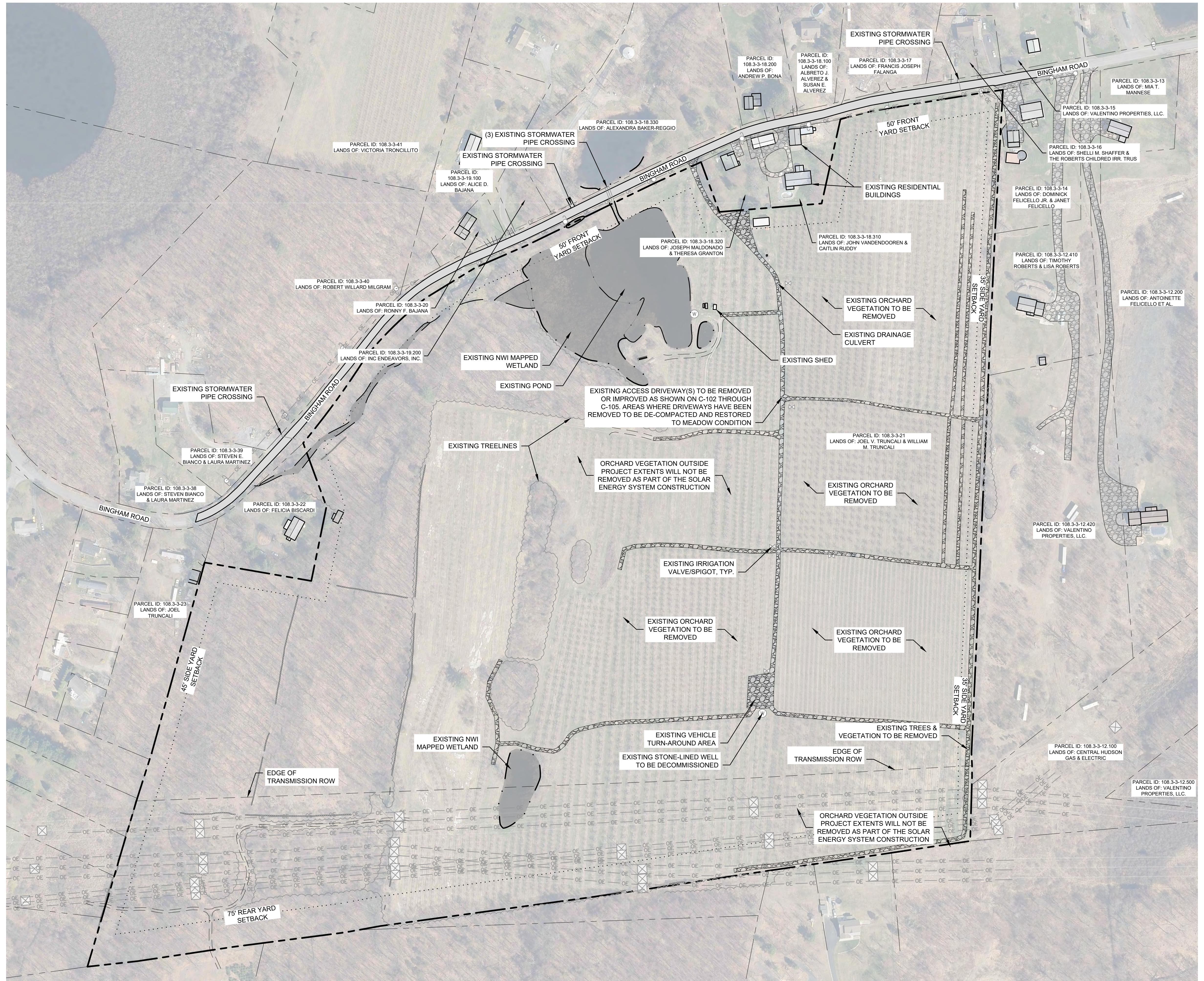
¹ REQUIREMENT ALTERED FROM ZONING SCHEDULE I "LOT, YARD, AND HEIGHT REGULATIONS" PER TOWN OF MARLBOROUGH CODE 155-32.2 "STANDARDS FOR LARGE-SCALE SOLAR SYSTEMS AS A SPECIAL USE".
² AN EXISTING, NON-COMFORMING, BUILDING TO REMAIN IS LOCATED APPROXIMATELY 24' FROM THE BOUNDARY LINE. THE PROPOSED SOLAR PROJECT SHALL RESPECT THE 50' ZONING SETBACK.
³ PROPOSED LOT COVERAGE CALCULATION INCLUDES PROPOSED DRIVEWAYS, CONCRETE EQUIPMENT PADS & MODULE AREA

E&SC PLAN AND CONSTRUCTION NOTES:

1. CONSTRUCTION SHALL NOT COMMENCE UNTIL APPROPRIATE PERMIT COVERAGE HAS BEEN OBTAINED UNDER NYSDEC SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY, GP-0-20-001.
2. TOTAL LIMITS OF DISTURBANCE (LOD), AS SHOWN, TOTALS 21.91 ACRES. LOD INCLUDES LAND CLEARING/GRUBBING, MINOR GRADING FOR ACCESS DRIVE AND EQUIPMENT PADS, TRENCHING, AND TEMPORARY E&SC MEASURES.
3. CONSTRUCTION SHALL BE COMMENCED IN ACCORDANCE WITH THE PHASING PLAN TO LIMIT DISTURBANCE OF GREATER THAN 5 ACRES PER PHASE:
 - 3.1. PHASE 1: APPROXIMATELY 4.85 ACRES OF DISTURBANCE, NOT LIMITED TO BUT INCLUDING: ESTABLISHMENT OF E&SC MEASURES (STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, FILTER SOCK, ETC.), CLEARING/GRUBBING OF EXISTING TREES AND SHRUBS, INSTALLATION OF TEMPORARY LAYDOWN AREA, ACCESS DRIVE, UNDERGROUND ELECTRIC, UTILITY POLES, EQUIPMENT PADS AND PANEL ARRAY.
 - 3.2. PHASE 2: APPROXIMATELY 4.87 ACRES OF DISTURBANCE, NOT LIMITED TO BUT INCLUDING: CLEARING/GRUBBING OF EXISTING TREES AND SHRUBS, INSTALLATION OF UNDERGROUND ELECTRIC AND PANEL ARRAY.
 - 3.3. PHASE 3: APPROXIMATELY 4.72 ACRES OF DISTURBANCE, NOT LIMITED TO BUT INCLUDING: CLEARING/GRUBBING OF EXISTING TREES AND SHRUBS, INSTALLATION OF UNDERGROUND ELECTRIC AND PANEL ARRAY.
 - 3.4. PHASE 4: APPROXIMATELY 2.96 ACRES OF DISTURBANCE, NOT LIMITED TO BUT INCLUDING: CLEARING/GRUBBING OF EXISTING TREES AND SHRUBS, INSTALLATION OF UNDERGROUND ELECTRIC AND PANEL ARRAY.
 - 3.5. PHASE 5: APPROXIMATELY 4.54 ACRES OF DISTURBANCE, NOT LIMITED TO BUT INCLUDING: CLEARING/GRUBBING OF EXISTING TREES AND SHRUBS, INSTALLATION OF UNDERGROUND ELECTRIC, PANEL ARRAY AND FINAL STABILIZATION OF THE SITE.
4. EACH PHASE SHALL BE TEMPORARILY STABILIZED BEFORE PROCEEDING TO A SUBSEQUENT PHASE.
5. THE TEMPORARY E&SC PLAN MEASURES SHOWN HEREIN, SHALL BE PUT IN PLACE AT THE BEGINNING OF CONSTRUCTION AND REMOVED UPON FINAL STABILIZATION OF THE SITE.
6. CONSTRUCTION OF THE PANEL ARRAYS SHALL BE COMPLETED IN SUCH A WAY THAT NULLIFIES DISTURBANCE AND/OR COMPACTION OF THE IN-SITU LAND COVER (I.E. TRACKED VEHICLE TRAVELING IN AND OUT OF ROWS IS RECOMMENDED). EXISTING GROUND COVER IN THE AREA OF THE PANEL ARRAY SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
7. ALL DISTURBED AREAS SHALL BE SEDED AND MULCHED AS DETAILED IN THE SEEDING PLAN ON DRAWING C-501.
8. THE TEMPORARY PARKING AND STAGING AREA FOR CONSTRUCTION EQUIPMENT AND MATERIALS SHALL CONSIST OF STONE DUST OR A SIMILAR MATERIAL UPON COMPLETION OF CONSTRUCTION, THE STONE DUST, OR SIMILAR, SHALL BE REMOVED UP TO BUT NOT INCLUDING REMOVAL OF THE COVERED TOPSOIL. THE AREA SHALL BE SEDED AND MULCHED ACCORDING TO THE SEED AND MULCH SPECIFICATIONS DETAILED ON THE E&SC NOTES SHEET.

DRAFT
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CONSTRUCTION

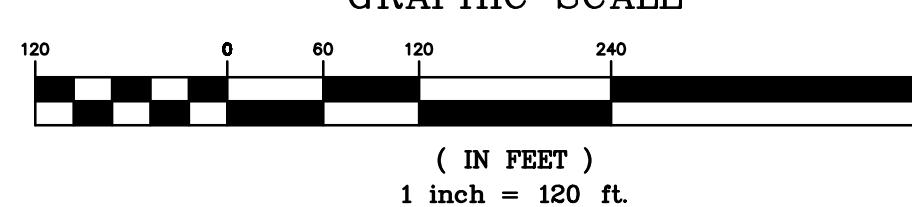
2	REVISED PER LAYOUT UPDATE & PB COMMENT	9/6/24	DPB
1	UPDATES PER PLANNING BOARD COMMENT	7/3/24	TSB
REV #	DESCRIPTION	DATE	BY
ELP MARLBOROUGH SOLAR 335 BINGHAM ROAD			
TOWN OF MARLBOROUGH ULSTER COUNTY, NY			
LEGEND & NOTES			
 CRAWFORD & ASSOCIATES ENGINEERING & LAND SURVEYING, PC 4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700 www.crawfordandassociates.com fax: (518) 828-2723			
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DATE	DRAWN BY: TSB/DPB	4/5/2024	NOTES.dwg
DESIGNED BY: TSB/DPB	C&A JOB#	4996.26	
CHECKED BY: CJK	DRAWING:	4996.26	C-002
AS SHOWN	APPROVED BY: CJK		



EXISTING CONDITIONS & DEMO

SCALE: 1"=120'

GRAPHIC SCALE



NAD 83
NY STATE PLANE EAST ZONE

SITE PLAN NOTES:

1. ORTHOGRAPHIC IMAGERY DOWNLOADED FROM NYS GIS CLEARINGHOUSE. IMAGERY PUBLISHED SEPTEMBER 2023, ACCESSED BY C&A NOVEMBER 2023.
2. BACKGROUND DRAWING & TOPOGRAPHIC CONTOURS TAKEN FROM SURVEY TITLED "MAP OF A PORTION OF LANDS OF TRUNCALI PREPARED FOR ELP MARLBOROUGH SOLAR LLC, SBL:108.3-3-21, ULSTER COUNTY, STATE OF NY" DATED APRIL 22, 2024, PREPARED BY CONTROL POINT ASSOCIATES, INC. P.C.
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6. FEMA NFHL CHECKED IN JANUARY 2024 AND NO FLOOD HAZARDS WERE IDENTIFIED WITHIN THE PROJECT AREA. PROJECT FALLS WITHIN FIRM PANEL #36111C0900F.

2	REVISED PER LAYOUT UPDATE & PB COMMENT	9/6/24	DPB
1	UPDATES PER PLANNING BOARD COMMENT	7/3/24	TSB
REV #	DESCRIPTION	DATE	BY

ELP MARLBOROUGH SOLAR 335 BINGHAM ROAD

TOWN OF MARLBOROUGH
ULSTER COUNTY, NY

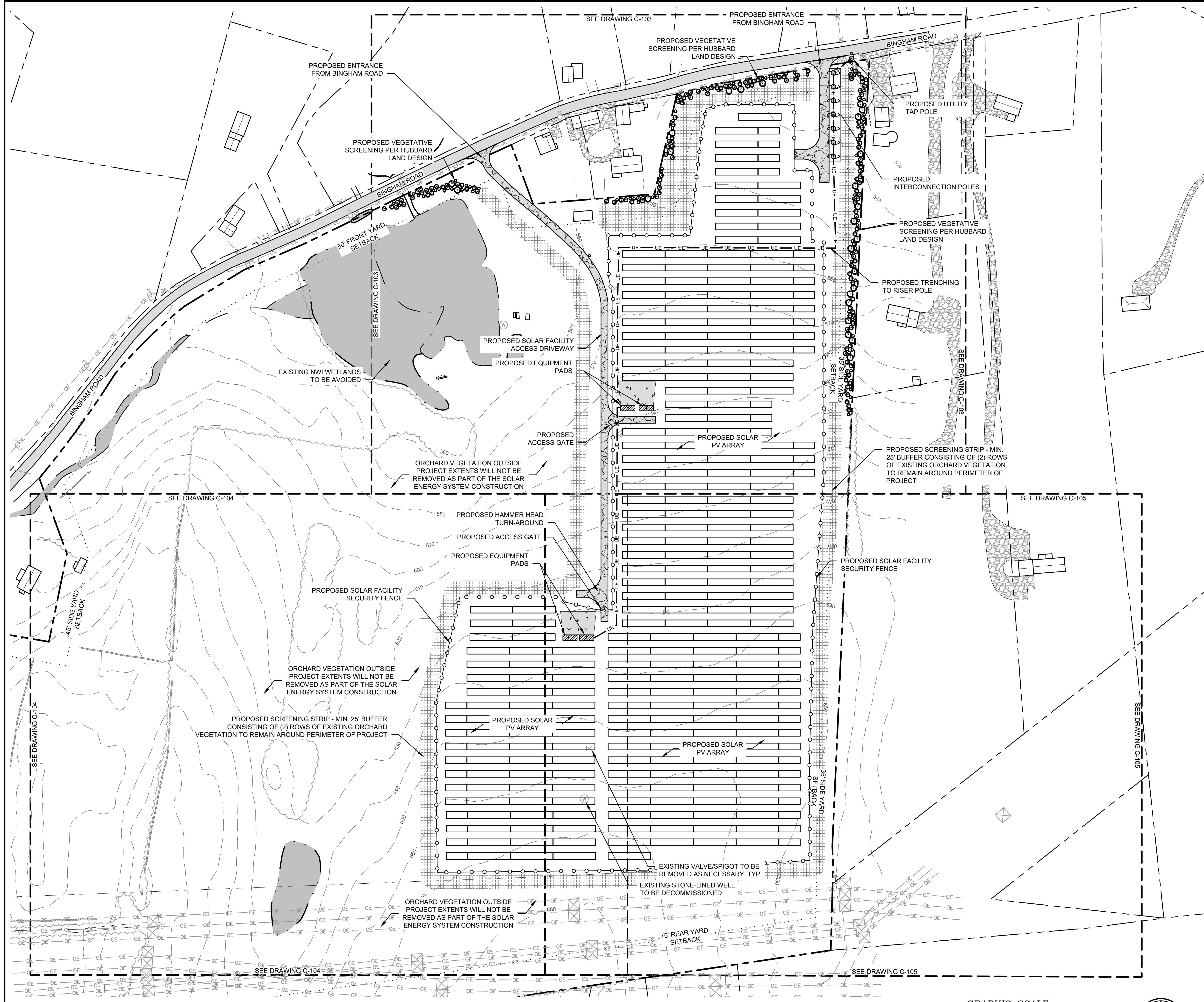
SITE PLAN EXISTING CONDITIONS & DEMO



DATE 4/5/2024	DRAWN BY: TSB/DPB	4411 Route 9, Suite 200, Hudson New York 12534 www.crawfordandassociates.com	4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700 fax: (518) 828-2723
DESIGNED BY: TSB/DPB	CHECKED BY: CJK	APPROVED BY: TSB/DPB	C&A JOB # 4996.26
SCALE AS SHOWN	DRAWN BY: TSB/DPB	4411 Route 9, Suite 200, Hudson New York 12534 www.crawfordandassociates.com	4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700 fax: (518) 828-2723
APPROVED BY: TSB/DPB	C&A JOB # 4996.26	DRAWING: C-101	

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PROPOSED OVERALL LAYOUT

SCALE: 1"=100'

GRAPHIC SCALE

(IN FEET)
1 inch = 100 ft.

NAD 83
NY STATE PLANE EAST ZONE

SITE PLAN NOTES:

1. ORTHOGRAPHIC IMAGERY DOWNLOADED FROM SURVEY TITLED "MAP OF A PORTION OF LANDS OF TRUNCALI PREPARED FOR ELP MARLBOROUGH SOLAR LLC, SBL:108.3-21, ULSTER COUNTY, STATE OF NY" DATED APRIL 22, 2024, PREPARED BY CONTROL POINT ASSOCIATES, INC. P.C.
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5. THE SOLAR PANELS SHALL NOT EXCEED 15' IN HEIGHT.
6. BUILDING SETBACK REQUIREMENTS SHALL BE AS STATED FOR THE RAG-1 (RURAL AGRICULTURAL DISTRICT) AS SHOWN IN THE ZONING TABLE BELOW. INVERTERS SHALL BE SET BACK THE LESSER OF 100 FEET OR UNTIL THE ELECTROMAGNETIC FIELD (EMF) MEETS BACKGROUND LEVEL, AS DETERMINED BY THE WORLD HEALTH ORGANIZATION (WHO).
7. COMMERCIAL SOLAR FACILITY'S AREA OF USE, AS DEFINED IN CODE SECTION 155-32.2 (B) EQUATES TO APPROXIMATELY 16.2 ACRES.
8. NONINVASIVE GROUND COVER UNDER AND BETWEEN THE ROWS OF SOLAR PANELS SHALL BE LOW-MAINTENANCE, DROUGHT-RESISTANT, AND NON-FERTILIZER-DEPENDENT. SEE SEEDING PLAN ON C-501 FOR MORE DETAILS.
9. THE SOLAR ENERGY SYSTEM SHALL BE ENCLOSED BY A MINIMUM 8' TALL PERIMETER FENCE AND SHALL BE AN AGRICULTURAL-STYLE FENCE CONSISTING OF WOODEN POSTS AND WOVEN WIRE. WARNING SIGNS WITH THE OWNER'S CONTACT INFORMATION WILL BE PLACED ON THE ENTRANCE AND PERIMETER OF THE FENCING.
10. A SIGN NO GREATER THAN TWO SQUARE FEET INDICATING THE NAME OF THE FACILITY OWNER(S) AND A TWENTY-FOUR-HOUR EMERGENCY TELEPHONE NUMBER SHALL BE POSTED. IN ADDITION, "NO TRESPASSING" OR OTHER WARNING SIGNS MAY BE POSTED.
11. THE OWNER WILL BE RESPONSIBLE FOR UPKEEP OF THE SOLAR FACILITY, INCLUDING ALL NECESSARY MAINTENANCE OF THE SYSTEM & PROPERTY INCLUDING MOWING AND TRIMMING IN AND AROUND THE FACILITY.
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13. ALL TEMPORARILY STOCKPILED MATERIAL GENERATED BY CONSTRUCTION OF THE FACILITY WILL BE REMOVED FROM THE SITE IN A TIMELY MANNER.

SITE DATA / ZONING SUMMARY

TAX ID NUMBER: 108.3-3-21 (+/- 80 ACRES)

ZONING DISTRICT	RAG-1 (RURAL AGRICULTURAL DISTRICT)	
USE CLASSIFICATION	LARGE SCALE SOLAR ENERGY SYSTEM (5 MW-AC)	
REQUIRED	1 ACRE	+/- 80 ACRES
LOT COVERAGE, MAX.	50% ¹	10.5% ²
LOT WIDTH (FT)	150'	1845'
LOT DEPTH (FT)	200'	1480'
BUILDING HEIGHT (FT), MAX	15"	<15'
YARD SETBACKS - MINIMUM (FT)		
FRONT	50'	50 ²
SIDE (ONE)	35'	35'
SIDE (BOTH)	80'	80'
REAR	75'	>100'

¹ REQUIREMENT ALTERED FROM ZONING SCHEDULE I "LOT, YARD, AND HEIGHT REGULATIONS" PER TOWN OF MARLBOROUGH CODE 155-32.2I "STANDARDS FOR LARGE-SCALE SOLAR SYSTEMS AS A SPECIAL USE".

² AN EXISTING, NON-COMFORMING, BUILDING TO REMAIN IS LOCATED APPROXIMATELY 24' FROM THE BOUNDARY LINE. THE PROPOSED SOLAR PROJECT SHALL RESPECT THE 50' ZONING SETBACK.

³ PROPOSED LOT COVERAGE CALCULATION INCLUDES PROPOSED DRIVEWAYS, CONCRETE EQUIPMENT PADS & MODULE AREA

2	REVISED PER LAYOUT UPDATE & PB COMMENT	9/6/24	DPB
1	UPDATES PER PLANNING BOARD COMMENT	7/3/24	TSB
REV #	DESCRIPTION		

**ELP MARLBOROUGH SOLAR
335 BINGHAM ROAD**

TOWN OF MARLBOROUGH, NY
ULSTER COUNTY, NY

**SITE PLAN
PROPOSED OVERALL LAYOUT**



DATE	DRAWN BY:	TSB/DPB	4/5/2024
DESIGNED BY:	TSB/DPB	AS SHOWN	C&A JOB#
CHECKED BY:	CJK	4996.26	DRAWING:
APPROVED BY:	CJK	C-102	

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PROPOSED GRADING & UTILITIES - 1

SCALE: 1" =

GRAPHIC SCALE

25 50 100

NAD 83
NY STATE PLANE EAST ZONE

**DRAFT
NOT FOR
CONSTRUCTION**

THE STATE OF TEXAS AND THE UNIVERSITY OF TEXAS AT AUSTIN

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ENGINEERING & LAND SURVEYING, PC

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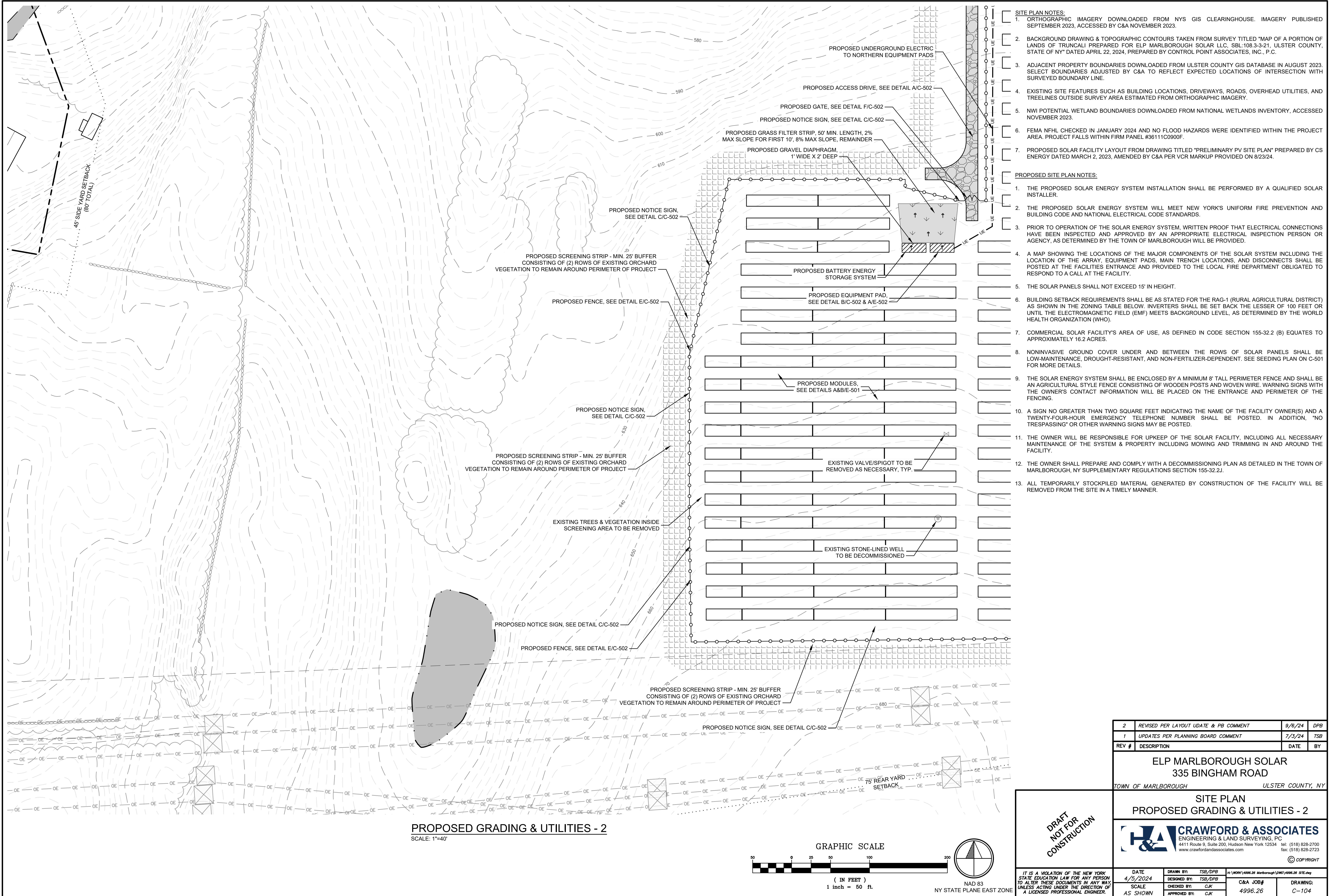
24 **DESIGNED BY:** TSB/DPB **C&A JOB#** **DRAWING:**

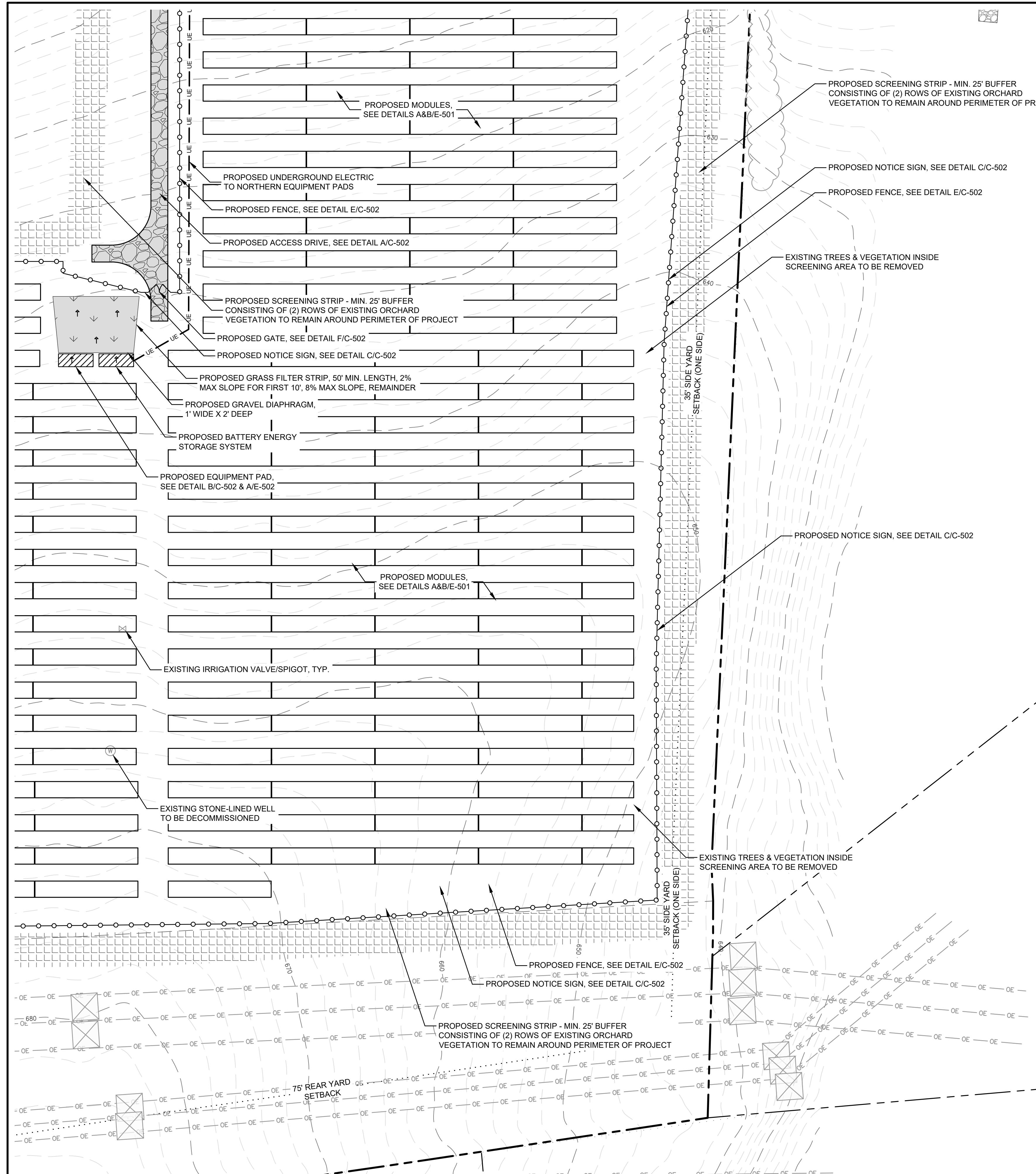
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APPROVED BY: <i>CKK</i>		

11 of 11 | Page | Page Number | Page Total | Page Footer

<p>IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THESE DOCUMENTS IN ANY WAY, LESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.</p>	DATE	DRAWN BY:	TSB/DPB	H:\WORK\4996.26 Marlborough\DWG\4996.26 SITE.dwg
	4/5/2024	DESIGNED BY:	TSB/DPB	
	SCALE	CHECKED BY:	CJK	
	AS SHOWN	APPROVED BY:	CJK	
		C&A JOB#	4996.26	DRAWING: C-103

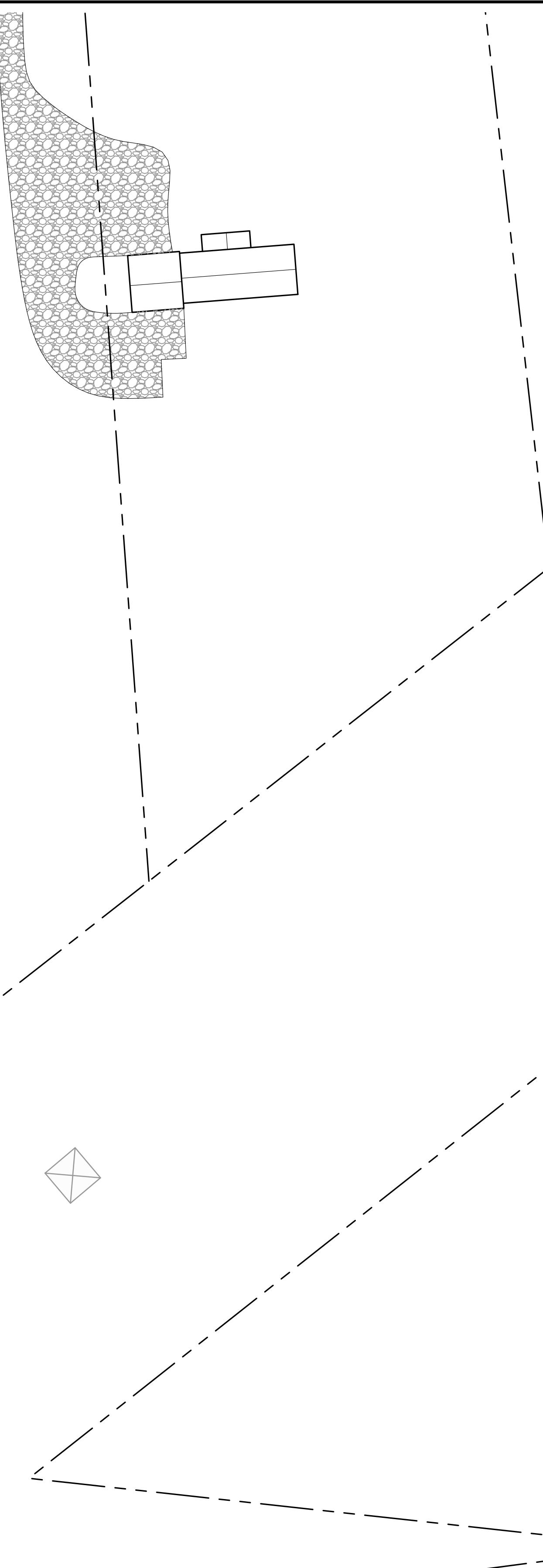
For more information, contact the Office of the Vice President for Research and Economic Development at 515-294-6450 or research@iastate.edu.





PROPOSED GRADING & UTILITIES - 3

SCALE: 1"=40'



GRAPHIC SCALE

50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

NAD 83
NY STATE PLANE EAST ZONE

SITE PLAN NOTES:

1. ORTHOGRAPHIC IMAGERY DOWNLOADED FROM NYS GIS CLEARINGHOUSE. IMAGERY PUBLISHED SEPTEMBER 2023, ACCESSED BY C&A NOVEMBER 2023.
2. BACKGROUND DRAWING & TOPOGRAPHIC CONTOURS TAKEN FROM SURVEY TITLED "MAP OF A PORTION OF LANDS OF TRUNCALI PREPARED FOR ELP MARLBOROUGH SOLAR LLC, SBL-108.3-21, ULSTER COUNTY, STATE OF NY" DATED APRIL 22, 2024, PREPARED BY CONTROL POINT ASSOCIATES, INC. P.C.
3. ADJACENT PROPERTY BOUNDARIES DOWNLOADED FROM ULSTER COUNTY GIS DATABASE IN AUGUST 2023. SELECT BOUNDARIES ADJUSTED BY C&A TO REFLECT EXPECTED LOCATIONS OF INTERSECTION WITH SURVEYED BOUNDARY LINE.
4. EXISTING SITE FEATURES SUCH AS BUILDING LOCATIONS, DRIVEWAYS, ROADS, OVERHEAD UTILITIES, AND TREELINES OUTSIDE SURVEY AREA ESTIMATED FROM ORTHOGRAPHIC IMAGERY.
5. NWI POTENTIAL WETLAND BOUNDARIES DOWNLOADED FROM NATIONAL WETLANDS INVENTORY, ACCESSED NOVEMBER 2023.
6. FEMA NFHL CHECKED IN JANUARY 2024 AND NO FLOOD HAZARDS WERE IDENTIFIED WITHIN THE PROJECT AREA. PROJECT FALLS WITHIN FIRM PANEL #36111C0900F.
7. PROPOSED SOLAR FACILITY LAYOUT FROM DRAWING TITLED "PRELIMINARY PV SITE PLAN" PREPARED BY CS ENERGY DATED MARCH 2, 2023, AMENDED BY C&A PER VCR MARKUP PROVIDED ON 8/23/24.

PROPOSED SITE PLAN NOTES:

1. THE PROPOSED SOLAR ENERGY SYSTEM INSTALLATION SHALL BE PERFORMED BY A QUALIFIED SOLAR INSTALLER.
2. THE PROPOSED SOLAR ENERGY SYSTEM WILL MEET NEW YORK'S UNIFORM FIRE PREVENTION AND BUILDING CODE AND NATIONAL ELECTRICAL CODE STANDARDS.
3. PRIOR TO OPERATION OF THE SOLAR ENERGY SYSTEM, WRITTEN PROOF THAT ELECTRICAL CONNECTIONS HAVE BEEN INSPECTED AND APPROVED BY AN APPROPRIATE ELECTRICAL INSPECTION PERSON OR AGENCY, AS DETERMINED BY THE TOWN OF MARLBOROUGH WILL BE PROVIDED.
4. A MAP SHOWING THE LOCATIONS OF THE MAJOR COMPONENTS OF THE SOLAR SYSTEM INCLUDING THE LOCATION OF THE ARRAY, EQUIPMENT PADS, MAIN TRENCH LOCATIONS, AND DISCONNECTS SHALL BE POSTED AT THE FACILITIES ENTRANCE AND PROVIDED TO THE LOCAL FIRE DEPARTMENT OBLIGATED TO RESPOND TO A CALL AT THE FACILITY.
5. THE SOLAR PANELS SHALL NOT EXCEED 15' IN HEIGHT.
6. BUILDING SETBACK REQUIREMENTS SHALL BE AS STATED FOR THE RAG-1 (RURAL AGRICULTURAL DISTRICT) AS SHOWN IN THE ZONING TABLE BELOW. INVERTERS SHALL BE SET BACK THE LESSER OF 100 FEET OR UNTIL THE ELECTROMAGNETIC FIELD (EMF) MEETS BACKGROUND LEVEL, AS DETERMINED BY THE WORLD HEALTH ORGANIZATION (WHO).
7. COMMERCIAL SOLAR FACILITY'S AREA OF USE, AS DEFINED IN CODE SECTION 155-32.2 (B) EQUIATES TO APPROXIMATELY 16.2 ACRES.
8. NONINVASIVE GROUND COVER UNDER AND BETWEEN THE ROWS OF SOLAR PANELS SHALL BE LOW-MAINTENANCE, DROUGHT-RESISTANT, AND NON-FERTILIZER-DEPENDENT. SEE SEEDING PLAN ON C-501 FOR MORE DETAILS.
9. THE SOLAR ENERGY SYSTEM SHALL BE ENCLOSED BY A MINIMUM 8' TALL PERIMETER FENCE AND SHALL BE AN AGRICULTURAL STYLE FENCE CONSISTING OF WOODEN POSTS AND WOVEN WIRE. WARNING SIGNS WITH THE OWNER'S CONTACT INFORMATION WILL BE PLACED ON THE ENTRANCE AND PERIMETER OF THE FENCING.
10. A SIGN NO GREATER THAN TWO SQUARE FEET INDICATING THE NAME OF THE FACILITY OWNER(S) AND A TWENTY-FOUR-HOUR EMERGENCY TELEPHONE NUMBER SHALL BE POSTED. IN ADDITION, "NO TRESPASSING" OR OTHER WARNING SIGNS MAY BE POSTED.
11. THE OWNER WILL BE RESPONSIBLE FOR UPKEEP OF THE SOLAR FACILITY, INCLUDING ALL NECESSARY MAINTENANCE OF THE SYSTEM & PROPERTY INCLUDING MOWING AND TRIMMING IN AND AROUND THE FACILITY.
12. THE OWNER SHALL PREPARE AND COMPLY WITH A DECOMMISSIONING PLAN AS DETAILED IN THE TOWN OF MARLBOROUGH, NY SUPPLEMENTARY REGULATIONS SECTION 155-32.2J.
13. ALL TEMPORARILY STOCKPILED MATERIAL GENERATED BY CONSTRUCTION OF THE FACILITY WILL BE REMOVED FROM THE SITE IN A TIMELY MANNER.

2	REVISED PER LAYOUT UPDATE & PB COMMENT	9/6/24	DPB
1	UPDATES PER PLANNING BOARD COMMENT	7/3/24	TSB
REV #	DESCRIPTION	DATE	BY
ELP MARLBOROUGH SOLAR 335 BINGHAM ROAD			
TOWN OF MARLBOROUGH ULSTER COUNTY, NY			

SITE PLAN PROPOSED GRADING & UTILITIES - 3		© COPYRIGHT	
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<small>IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THESE DOCUMENTS IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.</small>		<small>DATE: 4/5/2024</small> <small>DRAWN BY: TSB/DPB</small> <small>DESIGNED BY: TSB/DPB</small> <small>C&A JOB# 4996.26</small> <small>SCALE: AS SHOWN</small> <small>CHECKED BY: CJK</small> <small>APPROVED BY: CJK</small>	<small>4/5/2024</small> <small>TSB/DPB</small> <small>TSB/DPB</small> <small>CJK</small> <small>4996.26</small> <small>C-105</small>



EROSION & SEDIMENT CONTROL GENERAL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSION OF THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. (REFERRED TO IN REMAINING TEXT AS "THE NEW YORK GUIDELINES".)
2. THE SEDIMENT MEASURES DETAILED ON THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE IN PLACE PRIOR TO CONSTRUCTION STARTUP OF CONSTRUCTION. ONCE MEASURES ARE IN PLACE, ALL MEASURES SHALL BE PROPERLY MAINTAINED AND/OR REPLACED AS NECESSARY, AND THEN REMOVED FROM THE SITE BY THE CONTRACTOR ONCE SITE IS STABILIZED.
3. FOLLOWING THE COMMENCEMENT OF CONSTRUCTION, INSPECTIONS SHALL BE CONDUCTED PER THE FOLLOWING SCHEDULE. CONTRACTORS AND SUB CONTRACTORS ARE RESPONSIBLE FOR HAVING A "TRAINED INDIVIDUAL(S)" ON SITE DAILY WHEN SOIL DISTURBANCE ACTIVITIES ARE BEING PERFORMED TO INSPECT EROSION AND SEDIMENT CONTROL MEASURES. "TRAINED INDIVIDUAL" MEANING AN EMPLOYEE FROM A CONSTRUCTION FIRM THAT HAS RECEIVED FOUR (4) HOURS OF TRAINING, WHICH HAS BEEN ENDORSED BY THE NYS DEC, SOIL AND WATER CONSERVATION DISTRICT, CPESC INC. THE TRAINED INDIVIDUAL SHALL RECEIVE FOUR (4) HOURS OF TRAINING EVERY THREE (3) YEARS.
 - FOR CONSTRUCTION SITES WHERE SOIL DISTURBANCE ACTIVITIES ARE ON-GOING, THE QUALIFIED INSPECTOR SHALL CONDUCT A SITE INSPECTION AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS.
 - FOR CONSTRUCTION SITES WHERE SOIL DISTURBANCE ACTIVITIES ARE ON-GOING AND THE OWNER OR OPERATOR HAS RECEIVED AUTHORIZATION IN ACCORDANCE WITH PART II.C.3 TO DISTURB GREATER THAN FIVE (5) ACRES OF SOIL AT ANY ONE TIME, THE QUALIFIED INSPECTOR SHALL CONDUCT AT LEAST TWO (2) SITE INSPECTIONS EVERY SEVEN (7) CALENDAR DAYS.
4. THE TWO (2) INSPECTIONS SHALL BE SEPARATED BY A MINIMUM OF TWO (2) FULL CALENDAR DAYS.
5. BASED ON THE BI-WEEKLY SITE INSPECTIONS, THE EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE SHALL BE REVISED AS SITE CONDITIONS WARRANT. THE CONTRACTOR SHALL IMPLEMENT THESE REVISIONS AS SOON AS PRACTICABLE.
6. THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR UNTIL THE FINAL SURFACE TREATMENTS ARE INSTALLED AND THE VEGETATED AREAS HAVE BEEN STABILIZED WITH AT LEAST 80% VEGETATIVE COVER. THE PROPERTY OWNER WILL ASSUME RESPONSIBILITY FOR MAINTAINING THE EROSION AND SEDIMENT SYSTEM(S) THEREAFTER.
7. INLET PROTECTION MEASURES SHALL BE INSTALLED AROUND STORM DRAIN INLETS TO PREVENT SEDIMENT LADEN WATER FROM ENTERING.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES ONCE THE CONSTRUCTION PHASE HAS BEEN STABILIZED AND FUNCTIONING PROPERLY AS ACCEPTED BY THE ENGINEER.
9. DUST CONTROL AT DRIVING AREAS - THE SITE MAY BE SPRAYED WITH WATER UNTIL THE SURFACE IS WET. THIS IS ESPECIALLY EFFECTIVE ON HAUL ROADS AND ACCESS ROUTES.
10. THE LOCAL AHJ, NYSDEC, NYSDEP, OR THE SITE ENGINEER MAY REQUEST ADDITIONAL MEASURES TO MINIMIZE THE POTENTIAL FOR ON SITE OR OFF SITE EROSION PROBLEMS THAT MAY OCCUR DURING CONSTRUCTION.
11. COPIES OF THE SOIL EROSION AND SEDIMENT CONTROL PLANS AND SWPPP, IF APPLICABLE, MUST BE MAINTAINED ON SITE UNTIL THE SITE HAS BEEN STABILIZED.

Maintenance Plan:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPERATION AND MAINTENANCE OF THE NEW DEVELOPMENT PROJECT AND PROJECT ACCESS DURING CONSTRUCTION.
2. NO EARTHWORK ACTIVITIES SHALL COMMENCE UNTIL SILT FENCES AND SILT SOCKS HAVE BEEN INSTALLED AS SHOWN ON DRAWINGS.
3. AREAS TO BE LEFT EXPOSED TO EROSION FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY STABILIZED.
4. PAVED AREAS SHALL BE KEPT FREE OF SEDIMENT, AND SHALL BE CLEANED PERIODICALLY AS REQUIRED BY CONSTRUCTION ACTIVITIES.
5. CATCH BASINS, IF ANY, SHALL BE PERIODICALLY INSPECTED FOR ACCUMULATION OF SEDIMENT. ALL CATCH BASINS WITHIN THE PROJECT SHALL BE CLEANED.
6. THE CONTRACTOR IS RESPONSIBLE TO INSPECT AND REPAIR EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED TO PREVENT DAMAGE OR SEDIMENTATION.
7. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL MEASURES. CLEAN SEDIMENT AND DEBRIS FROM TEMPORARY MEASURES AND FROM PERMANENT STORM DRAIN AND SANITARY SEWER SYSTEMS.

EESC PLAN AND CONSTRUCTION NOTES:

1. CONSTRUCTION SHALL NOT COMMENCE UNTIL APPROPRIATE PERMIT COVERAGE HAS BEEN OBTAINED UNDER NYSDEC SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY, GP-0-2001.
2. TOTAL LIMITS OF DISTURBANCE (LOD), AS SHOWN, TOTALS 21.91 ACRES. LOD INCLUDES LAND CLEARING/GRUBBING, MINOR GRADING FOR ACCESS DRIVE AND EQUIPMENT PADS, TRENCHING, AND TEMPORARY E&SC MEASURES.
3. CONSTRUCTION SHALL BE COMMENCED IN ACCORDANCE WITH THE PHASING PLAN TO LIMIT DISTURBANCE OF GREATER THAN 5 ACRES PER PHASE:
 - 3.1. PHASE 1: APPROXIMATELY 4.85 ACRES OF DISTURBANCE, NOT LIMITED TO BUT INCLUDING: ESTABLISHMENT OF E&SC MEASURES (STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, FILTER SOCK, ETC.), CLEARING/GRUBBING OF EXISTING TREES AND SHRUBS, INSTALLATION OF TEMPORARY LAYDOWN AREA, ACCESS DRIVE, UNDERGROUND ELECTRIC, UTILITY POLES, EQUIPMENT PADS AND PANEL ARRAY.
 - 3.2. PHASE 2: APPROXIMATELY 4.87 ACRES OF DISTURBANCE, NOT LIMITED TO BUT INCLUDING: CLEARING/GRUBBING OF EXISTING TREES AND SHRUBS, INSTALLATION OF UNDERGROUND ELECTRIC AND PANEL ARRAY.
 - 3.3. PHASE 3: APPROXIMATELY 4.72 ACRES OF DISTURBANCE, NOT LIMITED TO BUT INCLUDING: CLEARING/GRUBBING OF EXISTING TREES AND SHRUBS, INSTALLATION OF UNDERGROUND ELECTRIC AND PANEL ARRAY.
 - 3.4. PHASE 4: APPROXIMATELY 2.96 ACRES OF DISTURBANCE, NOT LIMITED TO BUT INCLUDING: CLEARING/GRUBBING OF EXISTING TREES AND SHRUBS, INSTALLATION OF UNDERGROUND ELECTRIC AND PANEL ARRAY.
 - 3.5. PHASE 5: APPROXIMATELY 4.54 ACRES OF DISTURBANCE, NOT LIMITED TO BUT INCLUDING: CLEARING/GRUBBING OF EXISTING TREES AND SHRUBS, INSTALLATION OF UNDERGROUND ELECTRIC, PANEL ARRAY AND FINAL STABILIZATION OF THE SITE.
4. EACH PHASE SHALL BE TEMPORARILY STABILIZED BEFORE PROCEEDING TO A SUBSEQUENT PHASE.
5. THE TEMPORARY E&SC PLAN MEASURES SHOWN HEREIN, SHALL BE PUT IN PLACE AT THE BEGINNING OF CONSTRUCTION AND REMOVED UPON FINAL STABILIZATION OF THE SITE.
6. CONSTRUCTION OF THE PANEL ARRAYS SHALL BE COMPLETED IN SUCH A WAY THAT NULLIFIES DISTURBANCE AND/OR COMPACTION OF THE IN-SITU LAND COVER (I.E. TRACKED VEHICLE TRAVELING IN AND OUT OF ROWS IS RECOMMENDED). EXISTING GROUND COVER IN THE AREA OF THE PANEL ARRAY SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
7. ALL DISTURBED AREAS SHALL BE SEADED AND MULCHED AS DETAILED IN THE SEEDING PLAN ON DRAWING C-501.
8. THE TEMPORARY PARKING AND STAGING AREA FOR CONSTRUCTION EQUIPMENT AND MATERIALS SHALL CONSIST OF STONE DUST OR A SIMILAR MATERIAL. UPON COMPLETION OF CONSTRUCTION, THE STONE DUST, OR SIMILAR, SHALL BE REMOVED UP TO BUT NOT INCLUDING REMOVAL OF THE COVERED TOPSOIL. THE AREA SHALL BE SEADED AND MULCHED ACCORDING TO THE SEED AND MULCH SPECIFICATIONS DETAILED ON THE E&SC NOTES SHEET.
9. IN HIGH TRAFFIC AREAS, THE AREA SHALL BE DE-COMPACTED PRIOR TO SEEDING TO ENSURE GROWTH OF VEGETATIVE COVER. THE AREA(S) SHALL BE DE-COMPACTED ACCORDING TO NYSDEC EROSION AND SEDIMENT CONTROL DE-COMPACTON GUIDELINES.

2	REVISED PER LAYOUT UPDATE & PB COMMENT	9/6/24	DPB
1	UPDATES PER PLANNING BOARD COMMENT	7/3/24	TSB
REV #	DESCRIPTION		

ELP MARLBOROUGH SOLAR
335 BINGHAM ROAD
TOWN OF MARLBOROUGH
ULSTER COUNTY, NY

PROPOSED EROSION & SEDIMENT
CONTROL PLAN

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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DATE	DRAWN BY:	TSB/DPB	4/5/2024
DESIGNED BY:	TSB/DPB	AS SHOWN	4/5/2024
SCALE	C&A JOB #:	4996.26	C-106
CHECKED BY:	APPROVED BY:	CJK	CJK

PROPOSED EROSION & SEDIMENT CONTROL PLAN

SCALE: 1:100'

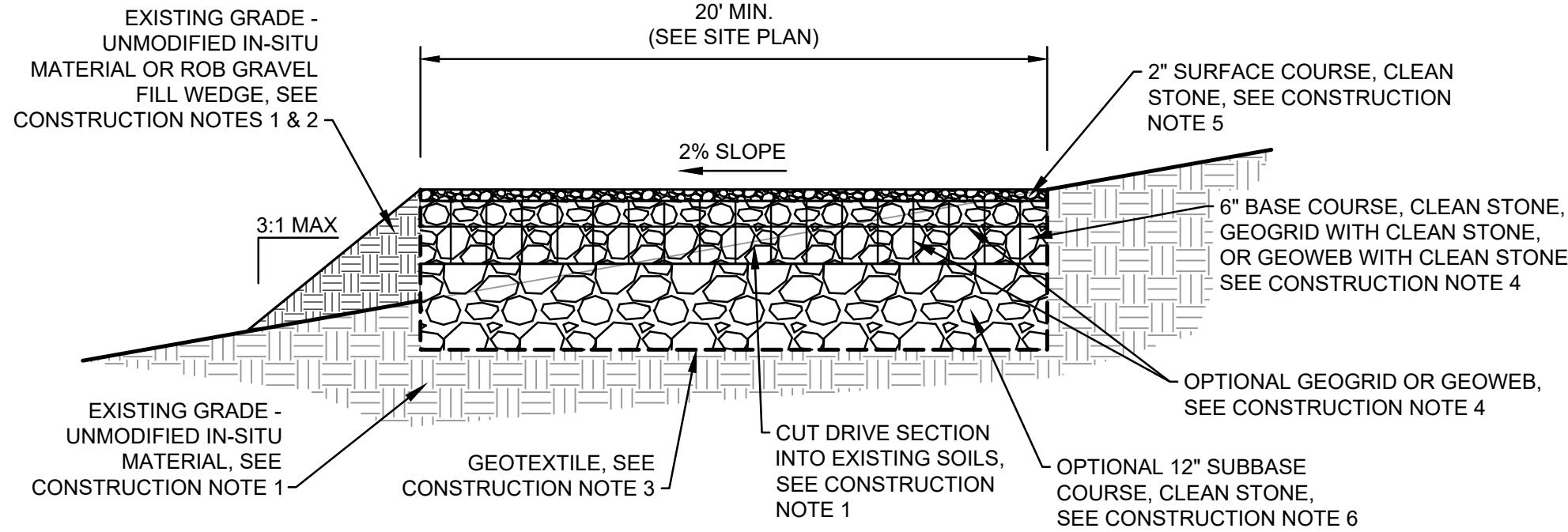
GRAPHIC SCALE

100 0 50 100 200

(IN FEET)
1 inch = 100 ft.

NAD 83

NY STATE PLANE EAST ZONE



GENERAL NOTES:

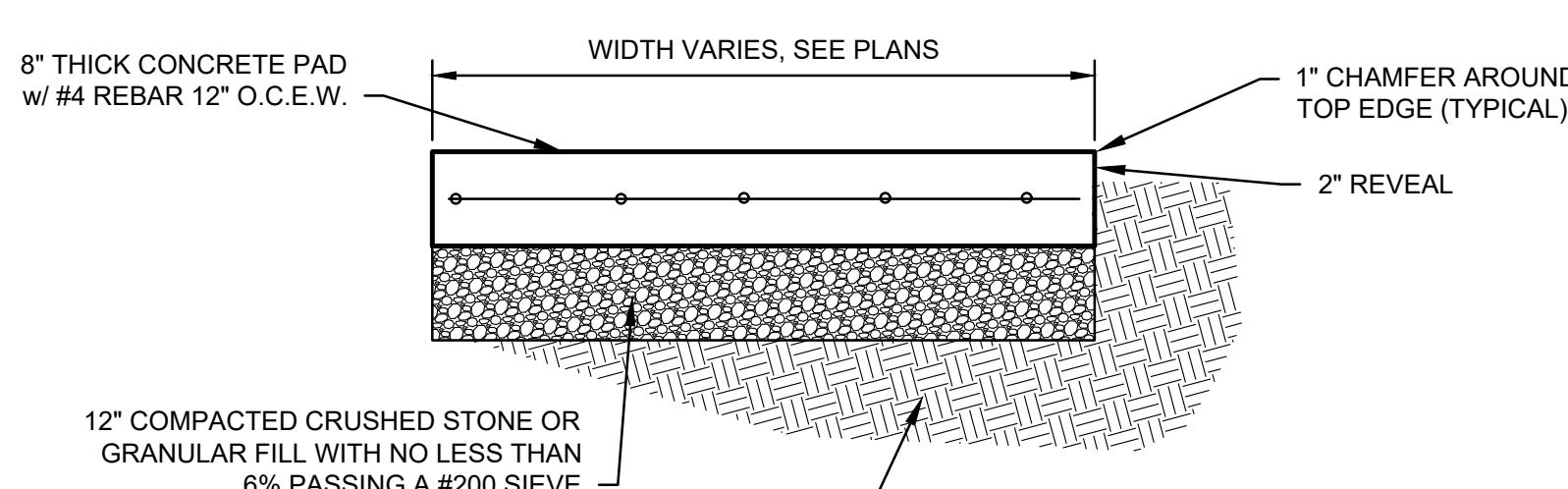
1. THIS DETAIL IS LIMITED TO CONSTRUCTION AND OCCASIONAL MAINTENANCE FOR SOLAR FACILITY PROJECTS IN NEW YORK STATE.
2. THE DRIVE SHALL NOT BE CONSTRUCTED ON NYSDOT SUBBASE MATERIAL OR EQUIVALENT.
3. CLEAN STONE SHALL NOT BE COMPACTED WITH A VIBRATORY ROLLER, PLATE COMPACTOR, OR EQUIVALENT. STONE MAY BE DEPOSITED AND SPREAD BY A TRACKED VEHICLE. COMPACTION FOR ALL COURSES MAY BE PROVIDED BY A NON-VIBRATORY VEHICLE.
4. DO NOT OIL, WATER BIND, SEALCOAT, CHOKER STONE, OR OVERLAY WITH CONCRETE, ASPHALT PAVEMENT, OR ANY MATERIAL THAT WILL CREATE AN IMPERVIOUS SURFACE.
5. APPROPRIATE EROSION AND SEDIMENT CONTROL TECHNIQUES SHALL BE USED DURING CONSTRUCTION TO ENSURE THAT SEDIMENT FINES ARE NOT DEPOSITED WITHIN THE VOIDS OF THE CLEAN STONE.
6. INSTALL ALL GEOTEXTILE AND GEOWEB COMPONENTS PER MANUFACTURER. CAREFULLY PLACE MATERIAL ATOP GEOTEXTILE AND/OR FOR INFILL OF GEOWEB TO PREVENT DISTORTION AND/OR COLLAPSE OF CELLS. UTILIZE KEY CONNECTORS TO JOIN ALL GEOWEB SECTIONS. UTILIZE ANCHORS TO STABILIZE GEOWEB DURING INFILL.
7. ALL CLEAN STONE TO BE WASHED, NO FINES, SHARP-ANGLED, UNIFORM QUALITY, CRUSHED STONE PER NYSDOT SPECIFICATIONS SECTION 703-02, TABLE 703-4. SIZE DESIGNATION AS INDICATED.

CONSTRUCTION NOTES:

1. THE DRIVE SECTION SHALL BE CUT INTO UN-COMPACTED IN-SITU SOIL MATERIAL. IN AREAS OF EVEN EXISTING GRADE, CUT IN SHALL BE OPTIONAL AND LIMITED TO 4" MAXIMUM. WHERE REQUIRED FOR LEVELING UNEVEN AREAS TO PROVIDE 2% CROSS SLOPE, A NATIVE SOIL OR ROB GRAVEL WEDGE, COMPACTED TO 80% MDD, MAY BE INSTALLED. WHERE DRIVE SECTION IS TO BE BUILT UP FROM EXISTING GRADE (SUCH AS AT TOP CULVERT CROSSINGS), NATIVE SOIL OR ROB GRAVEL FILL, COMPACTED TO 80% MDD, MAY BE INSTALLED BENEATH BASE / SUBBASE. COMPACTION FOR ALL COURSES MAY BE PROVIDED BY A NON-VIBRATORY VEHICLE.
2. AT LOW POINTS ALONG THE DRIVE ALIGNMENT AND/OR AT LOCATIONS INDICATED BY THE SITE PLAN, THE DRIVE SHALL BE CONSTRUCTED WITH A ROB GRAVEL FILL WEDGE ON THE DOWNSLOPE SIDE FOR DRAINAGE OF THE DRIVE SECTION.
3. GEOTEXTILE SHALL BE MIRAFI TENCATE RS 280i (OR APPROVED EQUAL) ALONG THE ENTIRE DRIVE ALIGNMENT.
4. BASE COURSE SHALL BE AS FOLLOWS:
 - 4.1. IN AREAS OF STRAIGHT ALIGNMENT AND RUNNING SLOPES LESS THAN 5%.
 - 4.1.1. PROVIDE 6" THICKNESS NYSDOT #3 CLEAN STONE WHERE EXISTING SOILS EXHIBIT ADEQUATE DRAINAGE AND/OR STABILITY.
 - 4.1.2. PROVIDE 6" THICKNESS CLEAN GABION STONE, SIZE 4"-6" WHERE EXISTING SOILS EXHIBIT FREQUENT SATURATION, SETTLING, AND/OR HEAVING.
 - 4.1.3. GEOGRID MAY BE ADDED TO EITHER OF THE ABOVE BASE COURSE OPTIONS AT LOCATIONS OF DESIRED INCREASED STABILIZATION. GEOGRID SHALL BE ADS BX124GG (OR APPROVED EQUAL). GEOGRID SHALL BE PLACED APPROXIMATELY MID-BASE COURSE DEPTH (APPROXIMATELY 3" THICKNESS BASE MATERIAL BELOW AND ABOVE GEOGRID, MINIMUM 4" TOTAL MATERIAL COVER ABOVE GEOGRID).
 - 4.2. IN AREAS OF CURVED ALIGNMENT, UNPAVED DRIVES, RUNNING SLOPES GREATER THAN 5%, AT LOCATIONS OF DESIRED INCREASED STABILIZATION, AND/OR AT LOCATIONS INDICATED BY THE SITE PLAN, PROVIDE 6" THICKNESS PRESTO GEOSYSTEMS GEOWEB GW30V6 (OR APPROVED EQUAL) AND INFILL WITH 6" THICKNESS NYSDOT #2 CLEAN STONE.
5. SURFACE COURSE SHALL BE 2" THICKNESS NYSDOT #1 CLEAN STONE.
6. IN AREAS WHERE EXISTING SOILS EXHIBIT FREQUENT SATURATION, SETTLING, AND/OR HEAVING, AN OPTIONAL SUBBASE COURSE MAY BE IMPLEMENTED TO IMPROVE STABILITY. OPTIONAL SUBBASE COURSE SHALL BE 12" THICKNESS CLEAN GABION STONE, SIZE 6"-12".

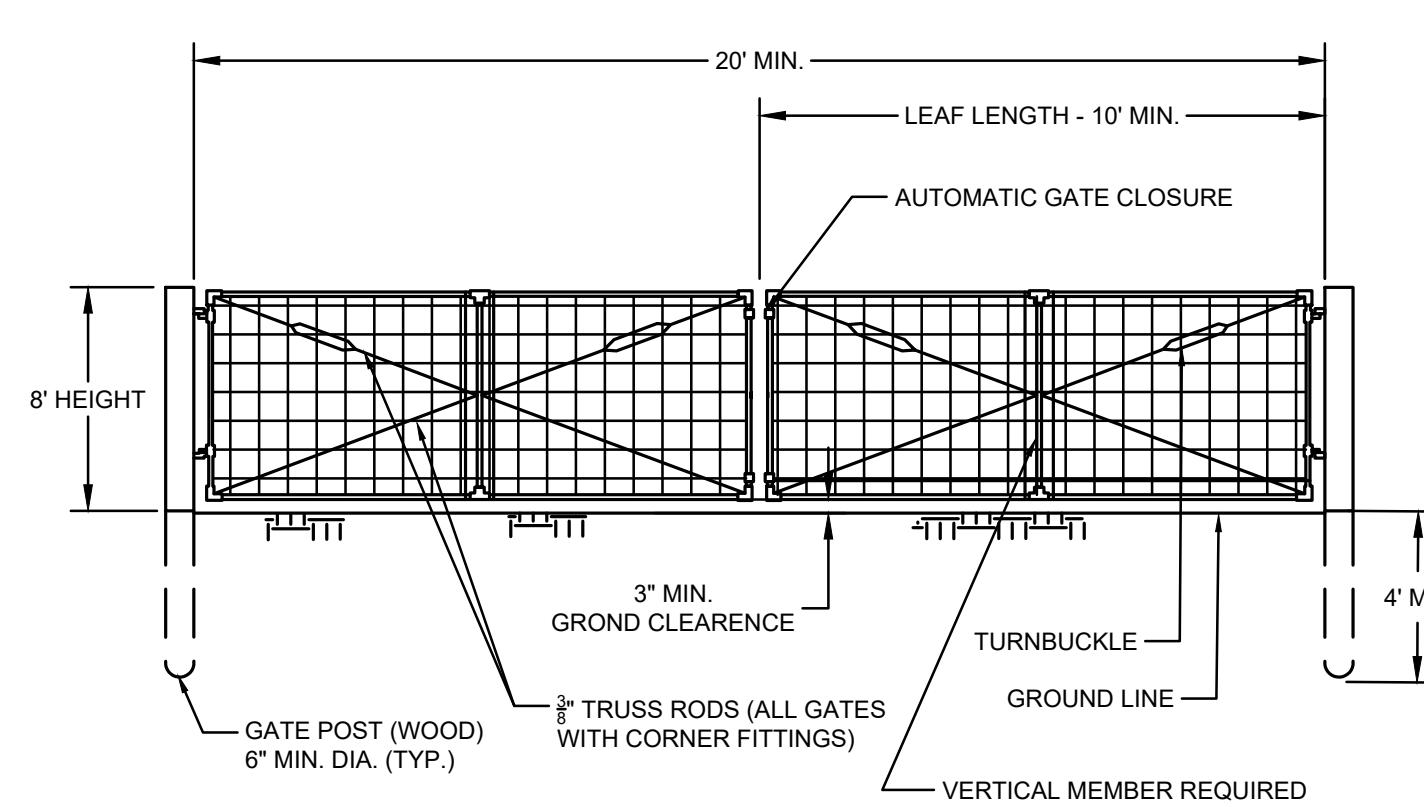
A PERVERIOUS ACCESS DRIVE DETAIL
C-502

SCALE: N.T.S.



B CONCRETE PAD DETAIL
C-502

SCALE: N.T.S.



F GATE DETAIL
C-502

SCALE: N.T.S.

NOTES:
1. COORDINATE KNOX BOX OR SIMILAR WITH LOCAL FIRE DEPARTMENT AS NEEDED.

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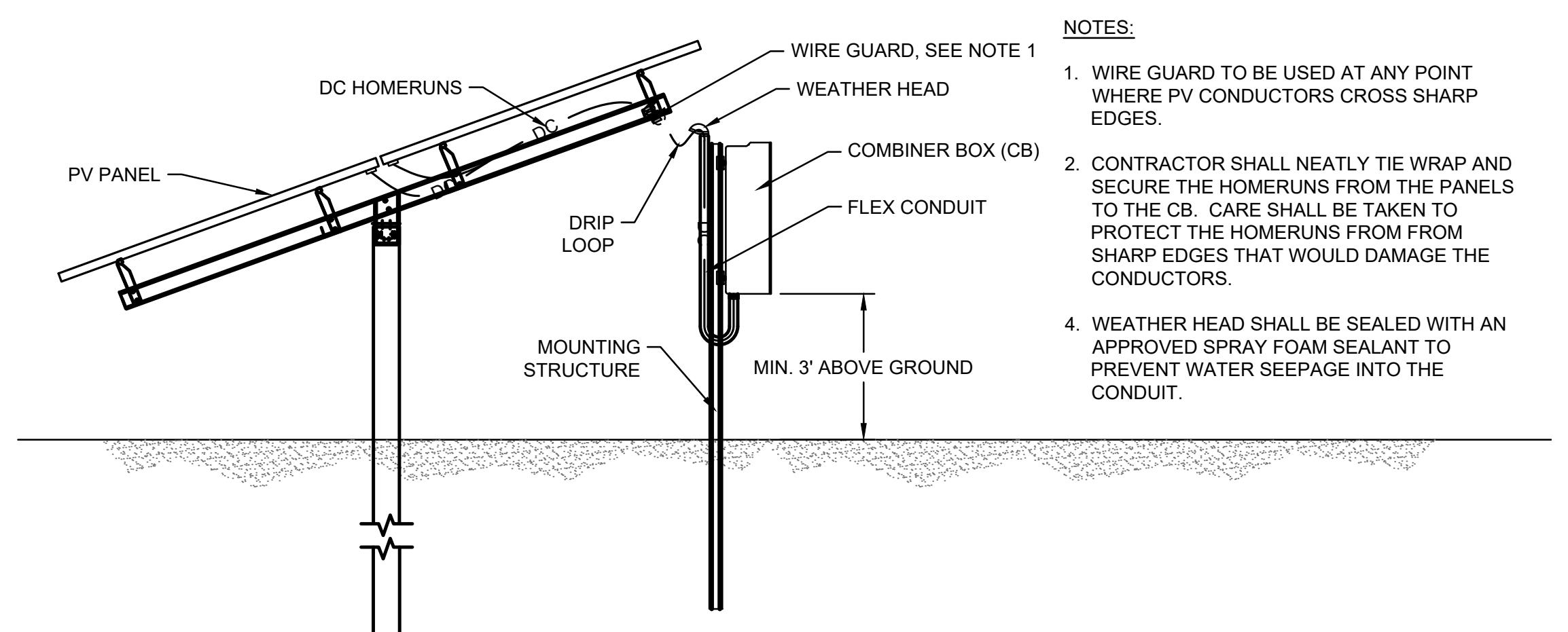
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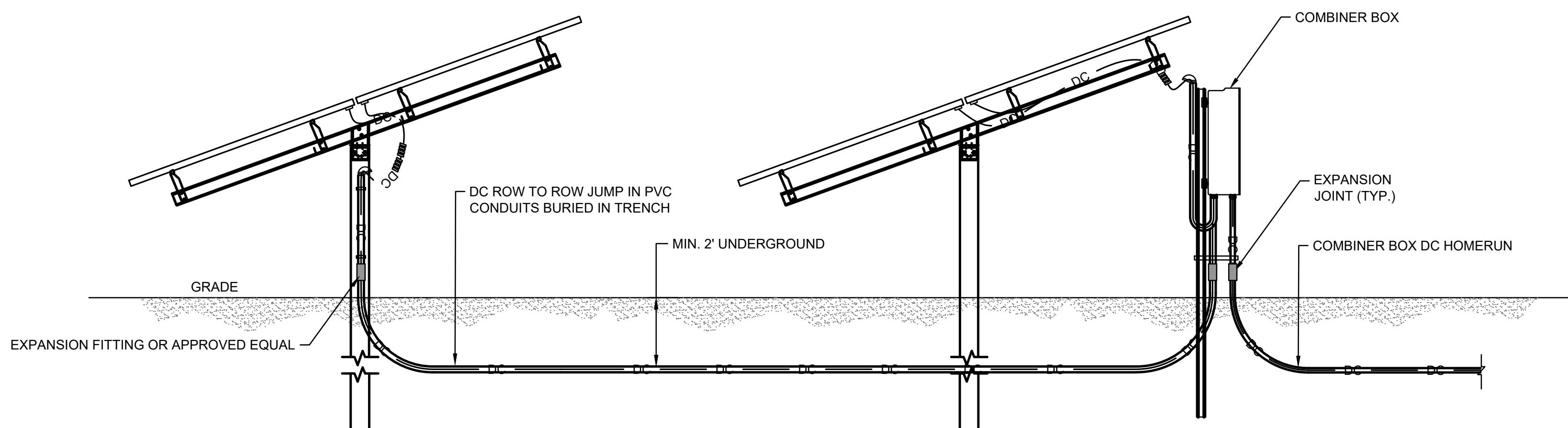


A **FIXED TILT DC CONDUCTORS WIRE MANAGEMENT DETAIL**
E-501

SCALE: N.T.S.

NOTES:

1. WIRE GUARD TO BE USED AT ANY POINT WHERE PV CONDUCTORS CROSS SHARP EDGES.
2. CONTRACTOR SHALL NEATLY TIE WRAP AND SECURE THE HOMERUNS FROM THE PANELS TO THE CB. CARE SHALL BE TAKEN TO PROTECT THE HOMERUNS FROM FROM SHARP EDGES THAT WOULD DAMAGE THE CONDUCTORS.
4. WEATHER HEAD SHALL BE SEALED WITH AN APPROVED SPRAY FOAM SEALANT TO PREVENT WATER SEEPAGE INTO THE CONDUIT.

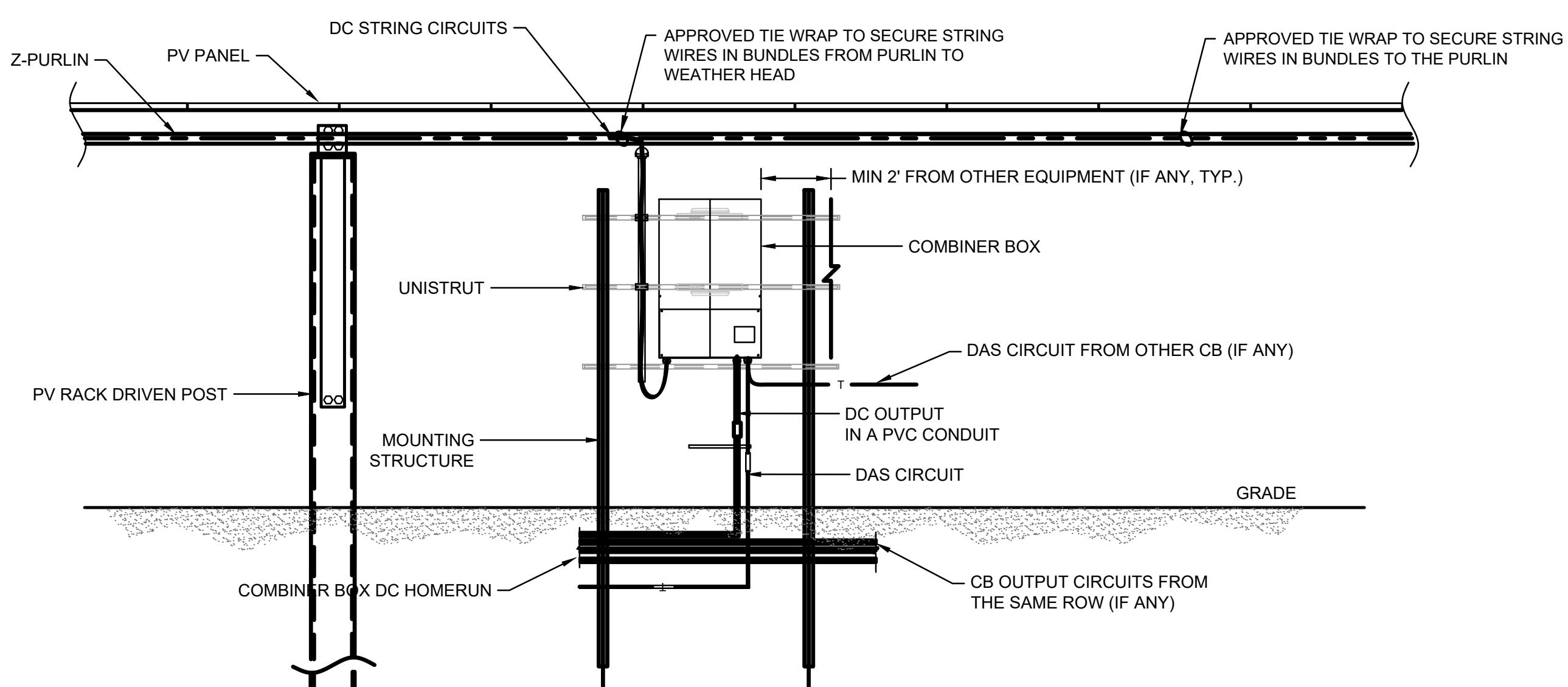


B **ROW TO ROW JUMPING DETAIL**
E-501

SCALE: N.T.S.

NOTE:

1. ELECTRICIANS TO PROVIDE CONDUIT FITTINGS, EXPANSION FITTINGS, AND PROTECTIVE BUSHINGS AS REQUIRED
2. A WIRE MANAGEMENT TRAY OR APPROVED EQUIVALENT SHALL BE PROVIDED TO HOUSE THE EXPOSED DC CONDUCTORS AT THE COMBINER BOX RACKING STRUCTURE
3. SPLIT-WIRE LOOM SHALL BE PROVIDED WHERE CABLES COME IN CONTACT WITH SHARP EDGES, IN CASE OF LARGER GAPS BETWEEN RACKING TABLES, AND FOR ADDITIONAL PROTECTION OF EXPOSED PV WIRES AT THE COMBINER BOX MOUNTING STRUCTURE
4. COMMUNICATION CONDUITS SHALL BE PLACED AT LEAST 1' FROM EITHER AC OR DC CIRCUITS



C **EQUIPMENT MOUNTING DETAIL FRONT VIEW**
E-501

SCALE: N.T.S.

ELECTRICAL DETAIL NOTES:

1. ALL ELECTRICAL DETAILS SHOWN HAVE BEEN INCLUDED FOR GENERAL REFERENCE AND DOES NOT REPRESENT THE SPECIFIC DESIGN OF ALL ELECTRICAL AND/OR RACKING COMPONENTS. THE ELECTRICAL DESIGN AND CONSTRUCTION DRAWINGS SHALL BE REFERENCED FOR ALL ELECTRICAL COMPONENTS DURING CONSTRUCTION OF THIS PROJECT.

2	REVISED PER LAYOUT UPDATE & PB COMMENT	9/6/24	DPB
1	UPDATES PER PLANNING BOARD COMMENT	7/3/24	TSB
REV #	DESCRIPTION	DATE	BY

ELP MARLBOROUGH SOLAR
335 BINGHAM ROAD

TOWN OF MARLBOROUGH ULSTER COUNTY, NY

ELECTRICAL DETAILS - SHEET 1

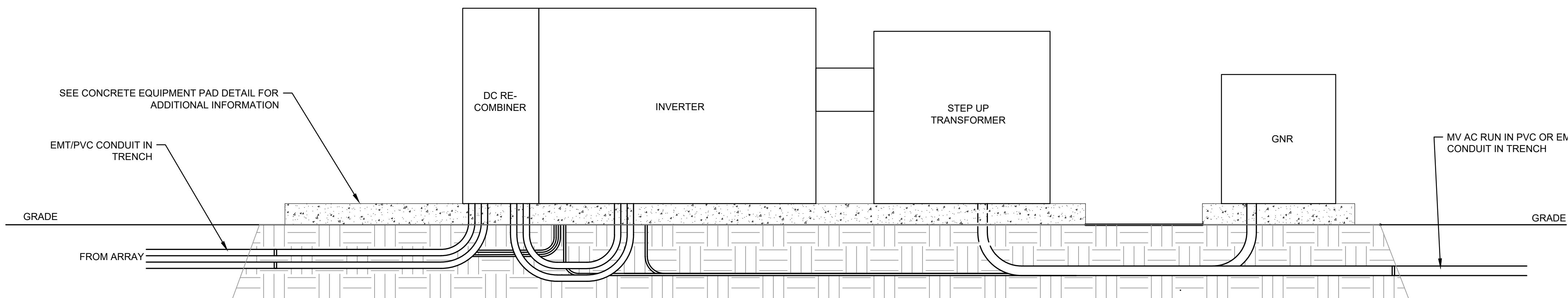
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CONSTRUCTION

CRAWFORD & ASSOCIATES ENGINEERING & LAND SURVEYING, PC 4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700 www.crawfordandassociates.com fax: (518) 828-2723	DATE	DRAWN BY: TSB/DPB	4/5/2024	4/5/2024
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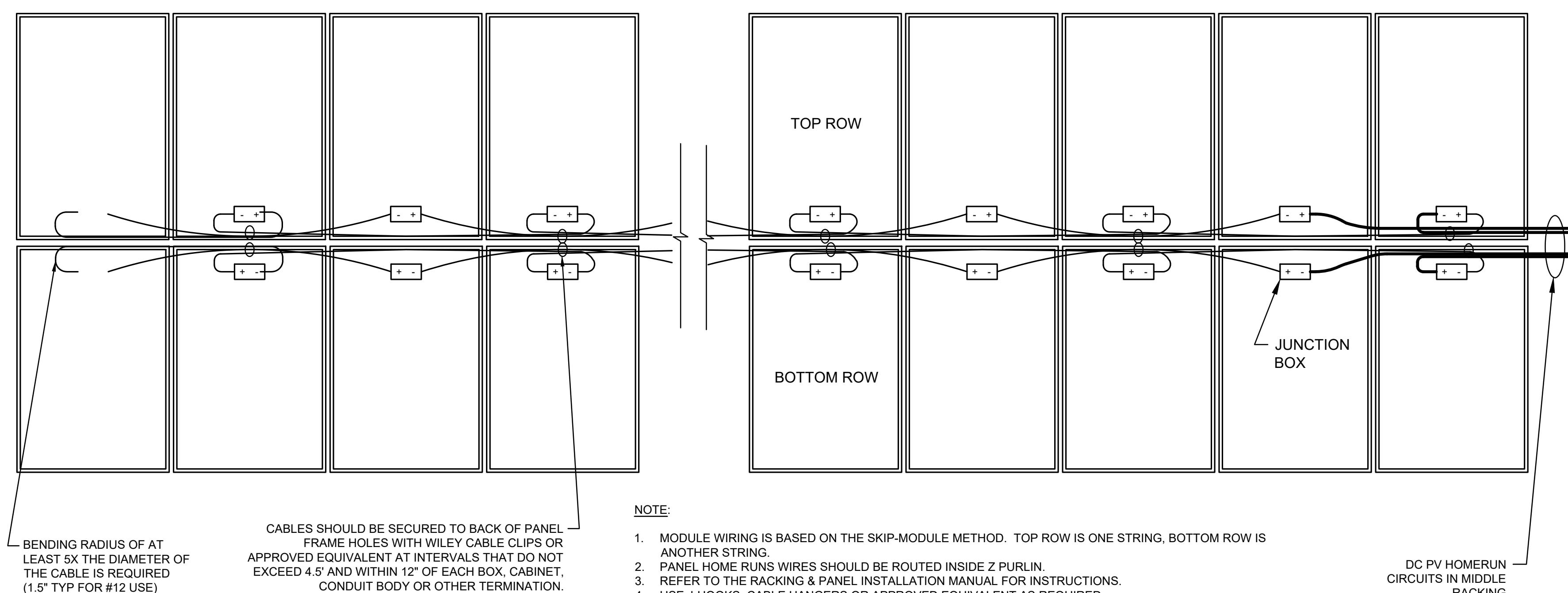
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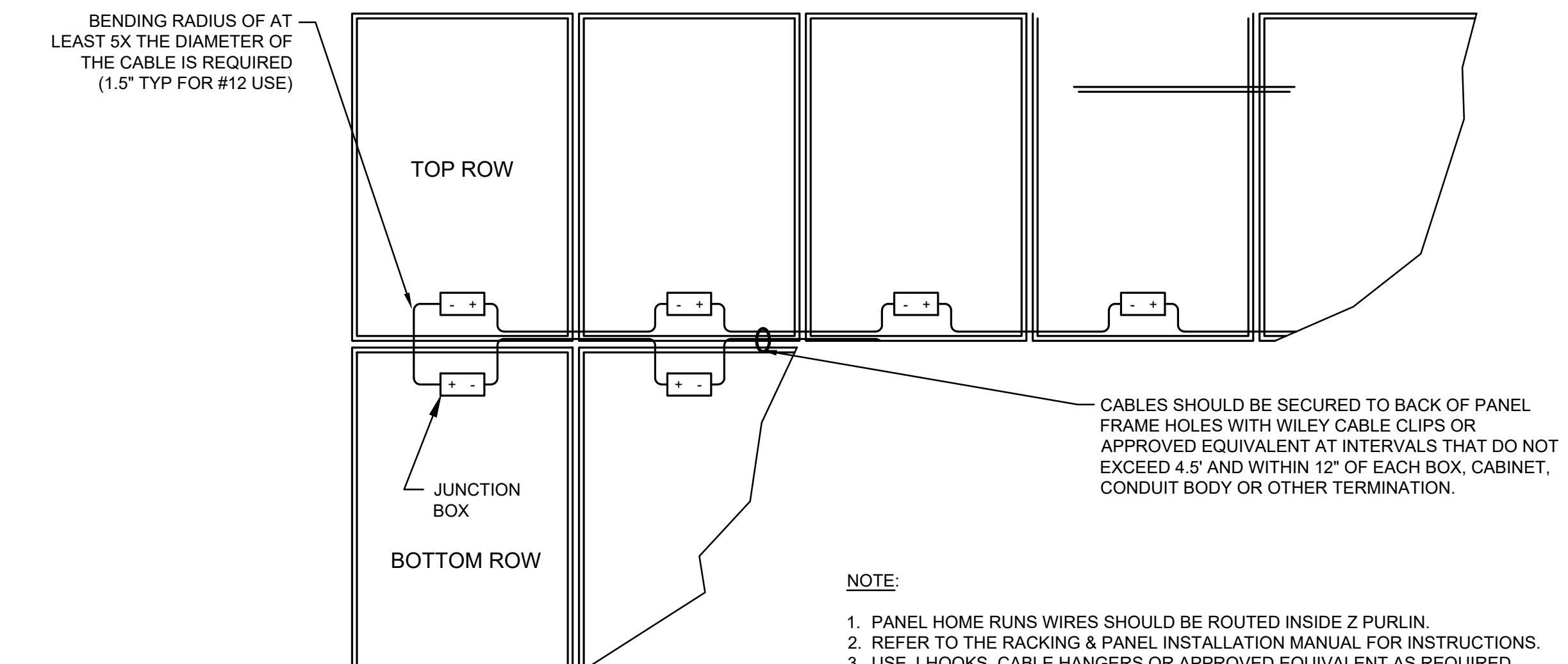
A EQUIPMENT PAD WIRING MANAGEMENT
E-502

SCALE: N.T.S.



NOTE:

1. MODULE WIRING IS BASED ON THE SKIP-MODULE METHOD. TOP ROW IS ONE STRING, BOTTOM ROW IS ANOTHER STRING.
2. PANEL HOME RUN WIRES SHOULD BE ROUTED INSIDE Z PURLIN.
3. REFER TO THE RACKING & PANEL INSTALLATION MANUAL FOR INSTRUCTIONS.
4. USE J-HOOKS, CABLE HANGERS OR APPROVED EQUIVALENT AS REQUIRED.



C PANEL WIRING MANAGEMENT DETAIL (HALF RACK)
E-502

SCALE: N.T.S.

B PANEL WIRING MANAGEMENT DETAIL (FULL RACK WITH SKIP WIRING)
E-502

SCALE: N.T.S.

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ELP MARLBOROUGH SOLAR
335 BINGHAM ROAD

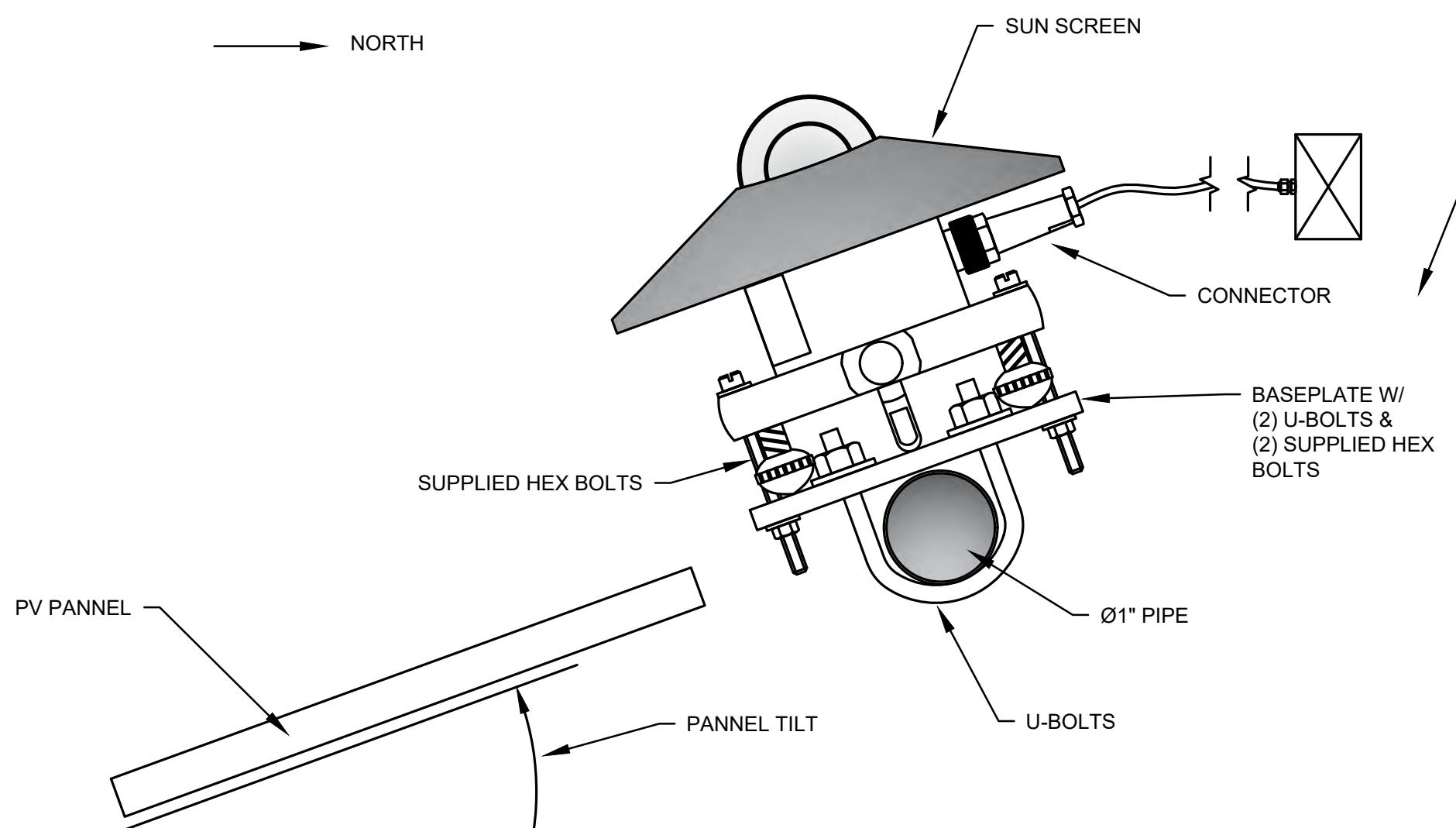
TOWN OF MARLBOROUGH ULSTER COUNTY, NY

ELECTRICAL DETAILS - SHEET 2

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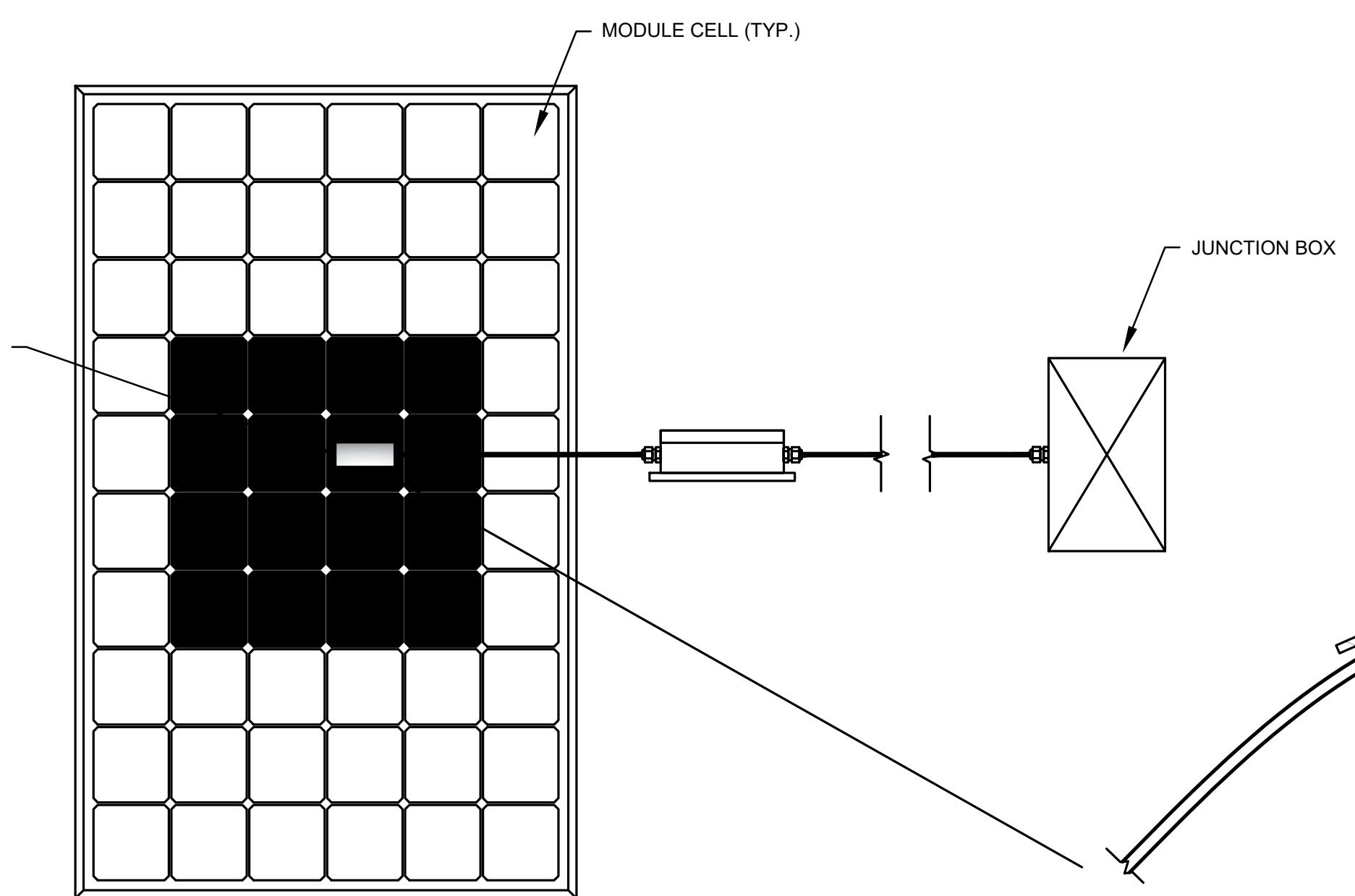


PYRANOMETER NOTE:

1. FOR POA PYRANOMETERS, ROTATE ASSEMBLY SO THAT THE BASEPLATE IS PARALLEL TO THE PV ARRAY AND FASTEN SNUGLY. FOR GHI PYRANOMETER, ROTATE ASSEMBLY SO THAT THE BASEPLATE IS PARALLEL TO THE GROUND.
2. PLACE PYRANOMETER ONTO THE MOUNTING BRACKET BASEPLATE AND ENSURE THEY ARE PARALLEL TO EACH OTHER USING THE LEVELING METER.
3. ELECTRICAL DETAILS REFERS TO DAS INFORMATION. IF THE SENSOR IS THE LAST DEVICE IN A MODBUS CHAIN WHICH CONSISTS OF 3 OR MORE DEVICES, THEN ADD A 120Ω RESISTOR BETWEEN THE DATA+ AND DATA- WIRES

A PYRANOMETER (POA) INSTALLATION
E-503

SCALE: N.T.S.



TEMPERATURE SENSOR NOTE:

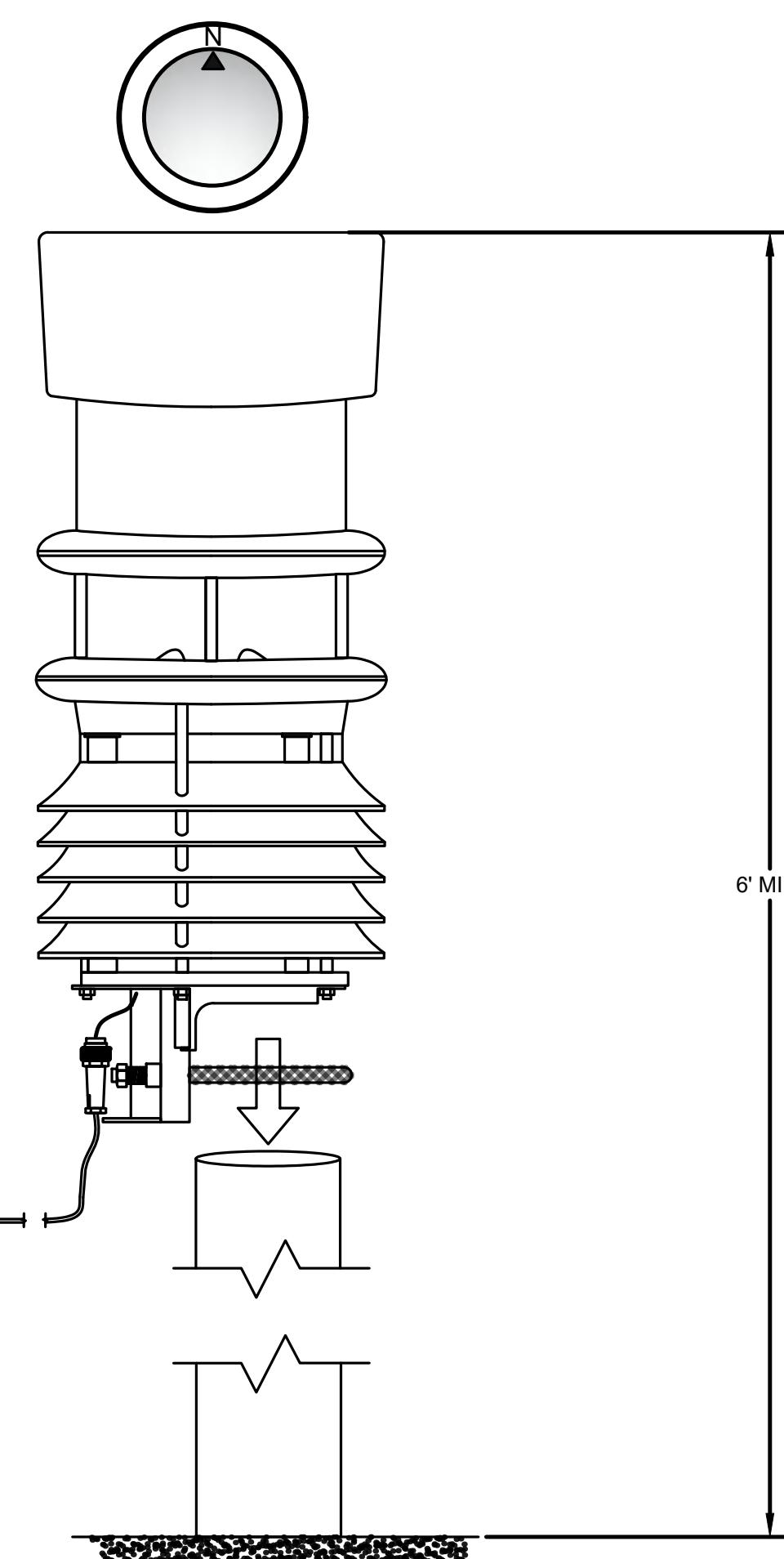
1. THE SENSOR SHALL BE PLACED ON A MODULE THAT IS AT LEAST 1 MODULE FROM THE EDGE OF THE ARRAY ON ALL SIDES WHEN POSSIBLE.
2. CLEAN THE CELL BEFORE ATTACHING A SENSOR ONTO IT.

C MODULE TEMPERATURE SENSOR INSTALLATION
E-503

SCALE: N.T.S.

WS601UMB NOTE:

1. VERTICALLY MOUNT ON A 2.5" TO 3" O.D. RIGID METAL POLE IN A LOCATION FREE OF OBSTRUCTIONS AND SHADING.
2. FIRST LOOSELY MOUNT THE WS601 MAKING SURE IT HAS AT LEAST 6" HEIGHT TO THE GROUND.
3. ALIGN THE NORTH INDICATORS ON THE WS601 WITH MAGNETIC NORTH USING A COMPASS AND TIGHTEN THE FASTENERS.



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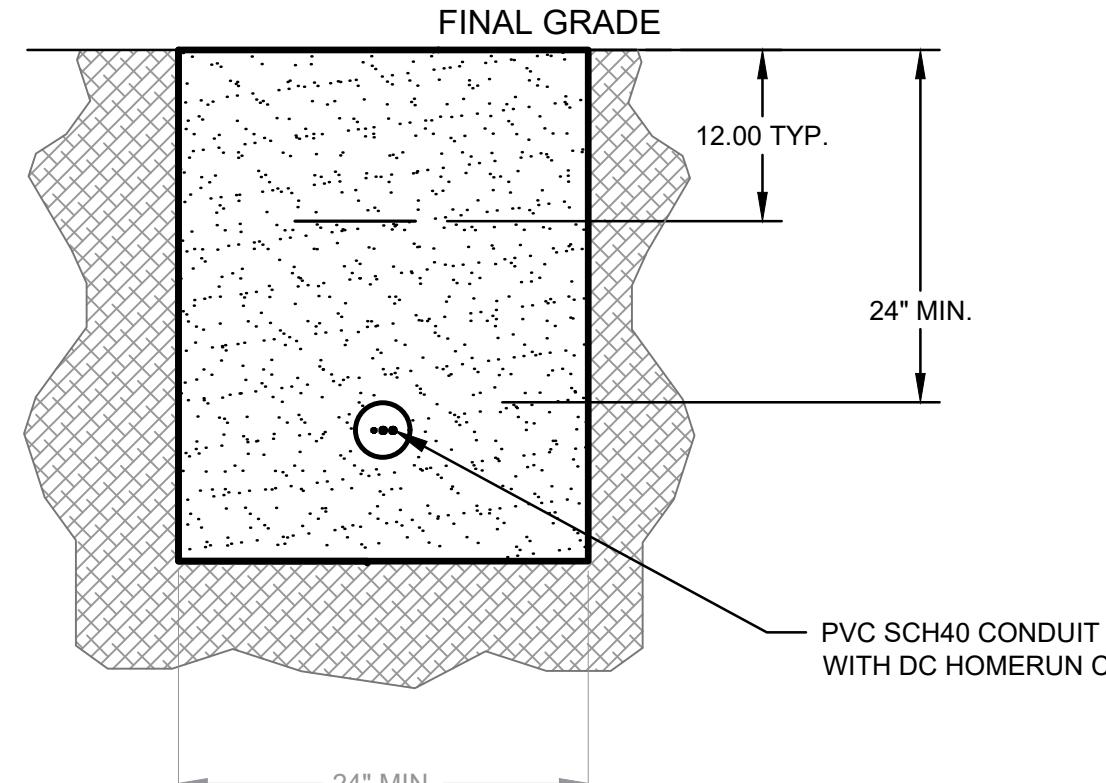
ELECTRICAL DETAILS - SHEET 3



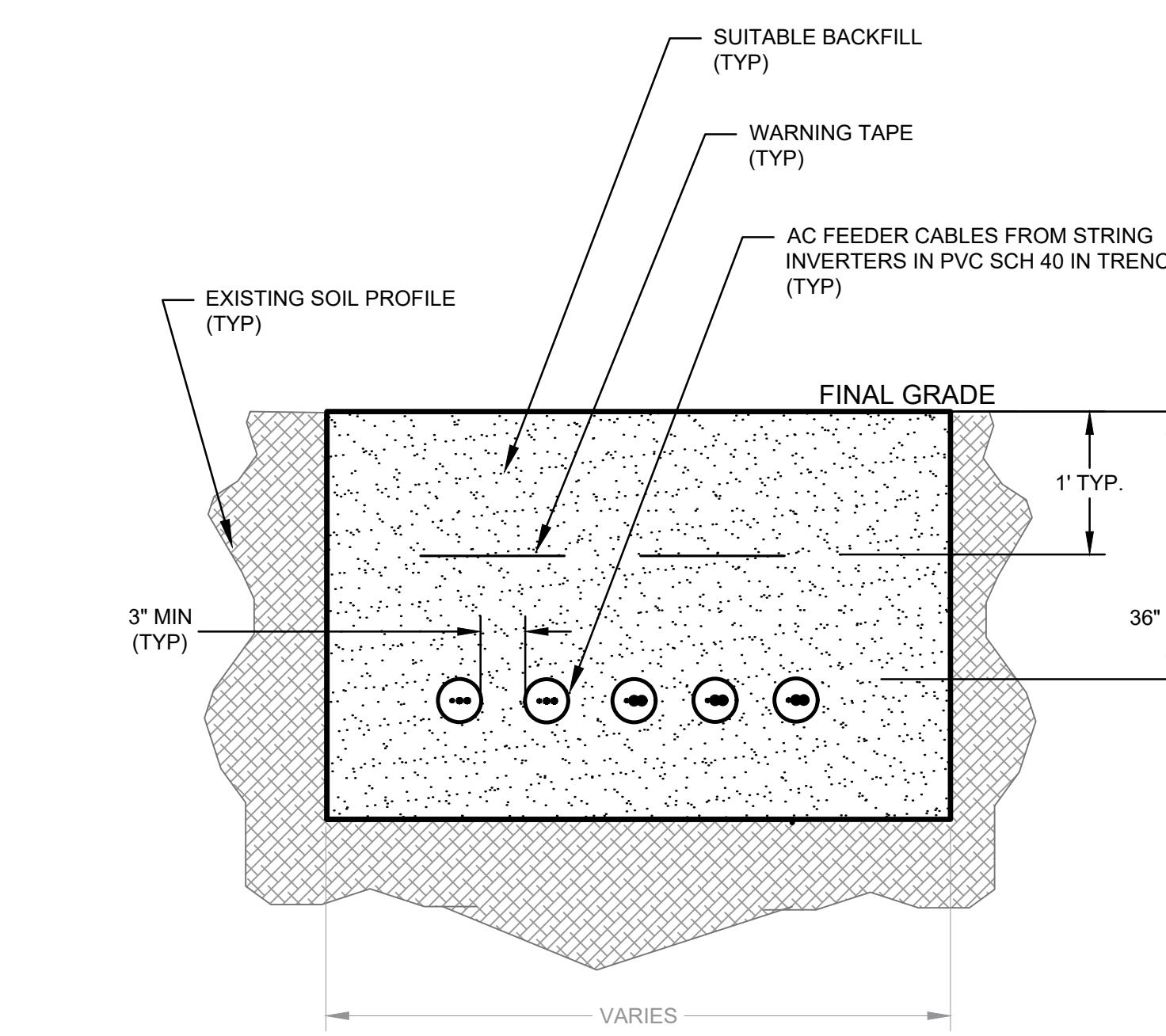
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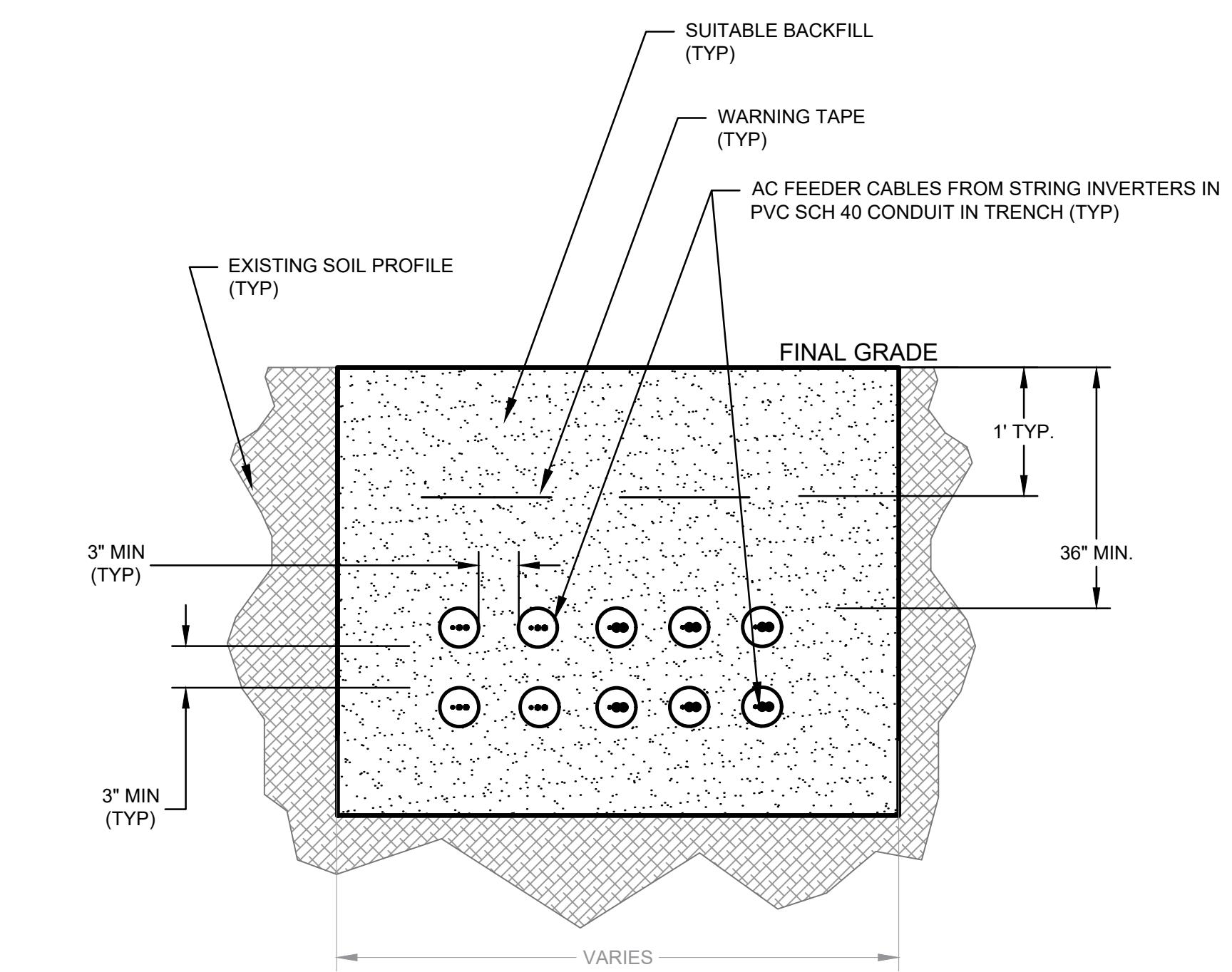
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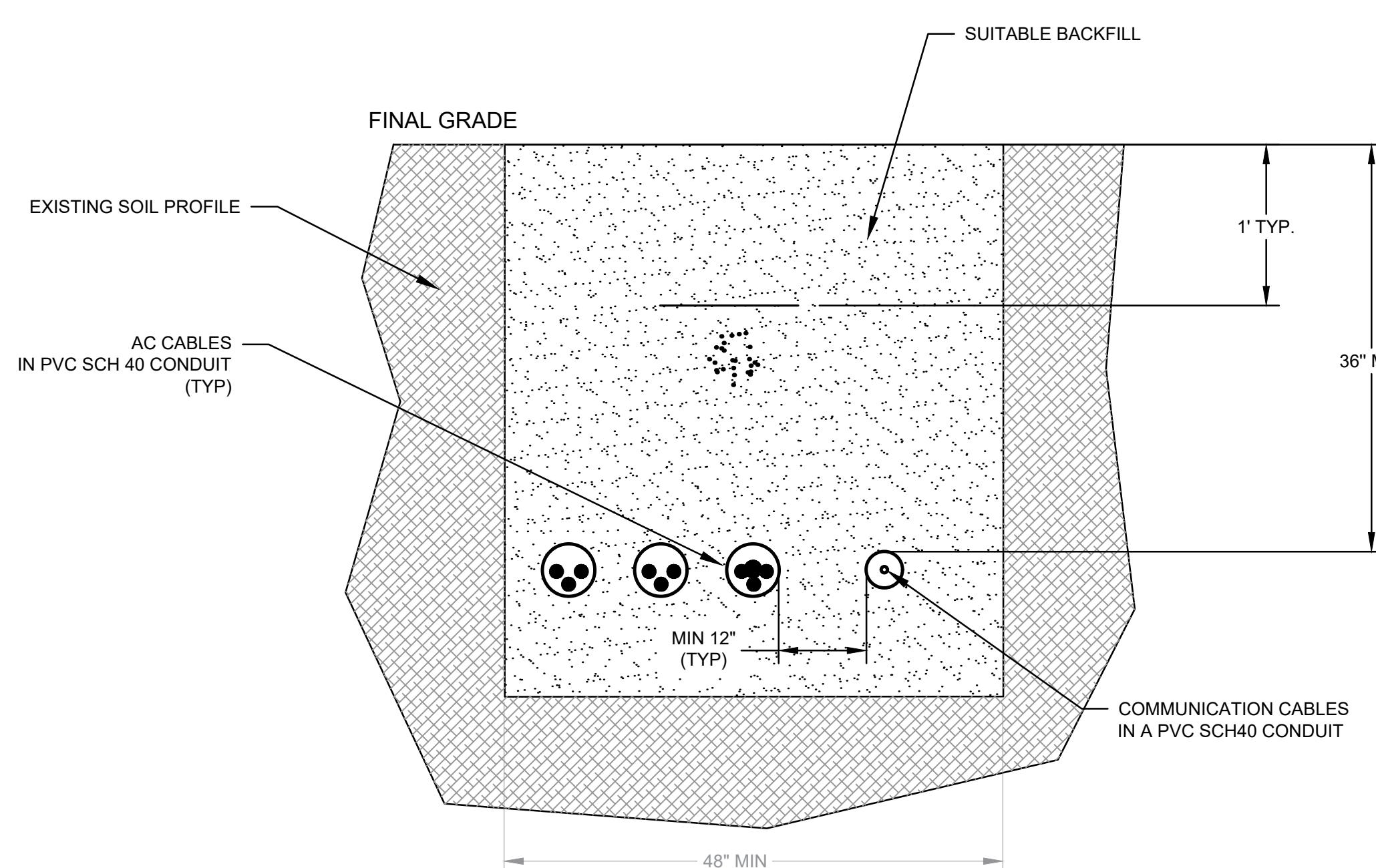
A DC HOMERUNS ROW TO ROW JUMPER TRENCH DETAIL
E-504 SCALE: N.T.



B AC FEEDER CIRCUITS TRENCH DETAIL (SINGLE LAYER)
E-504



C AC FEEDER CIRCUITS TRENCH DETAIL (TWO LAYERS)
E-504



D MEDIUM VOLTAGE CONDUCTORS WITH COMMUNICATIONS CABLES TRENCH DETAIL
E-504 SCALE: N.T.

NOTES:

1. ALL AC CONDUITS TO BE BURIED AT A MINIMUM OF 3'. ALL DC CONDUITS TO BE BURIED AT A MINIMUM OF 2'.
2. COMMUNICATION CABLES TO BE A MINIMUM OF 12" AWAY FROM DC AND AC CABLES.
3. WARNING TAPE TO BE METALLIC WITH THE PHRASE "CAUTION: BURIED ELECTRICAL LINES"
4. BACKFILL TO BE FREE FROM ANY ROCKS OR OTHER DELETERIOUS OBJECTS THAT ARE 3/4" IN DIAMETER OR GREATER.
5. ELECTRICIANS TO PROVIDE MATCHING FITTINGS AND EXPANSION COUPLINGS BY THE SAME MANUFACTURER AS THE CONDUIT

ELECTRICAL DETAIL NOTES:

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ELP MARLBOROUGH SOLAR 335 BINGHAM ROAD

ELECTRICAL DETAILS - SHEET 4

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	AS SHOWN	APPROVED BY:	CJK	4996.26	E-504