

CEDAR CREEK ENERGY
 3155 104TH LN NE
 BLAINE, MN, 55449
 PHONE # 763-450-9763

PROJECT ADDRESS
 6501 SUNWOOD DR. NW
 RAMSEY, MN 55303

UTILITY CUSTOMER OF RECORD
 CELF 2024 LLC

PROJECT DESCRIPTION	
SYSTEM SIZE (DC)	5.046 MW
SYSTEM SIZE (AC)	4.125 MW
DC/AC RATIO	1.223
AZIMUTH	90/270°
TILT	+/- 52°
MODULE TYPE	JINKO JKMS80N-72HL4-BDV
MODULE COUNT	8,700
INVERTER TYPE	CPS SCH275KTL-DO/US 800 275 kW
INVERTER POWER (kW)	275kW
RACKING	SINGLE AXIS TRACKER
MONITORING	ALSO ENERGY
PROJECT AREA	~23.04 ACRE
MIN./MAX. TEMP	-26°C / 32°C

OTHER NOTES

NO POSITION, DISTANCE, OR CLEARANCE ISSUES WITH OVERHEAD ELECTRIC SERVICE LINES OR OTHER UTILITIES IN RELATION TO THE PV PANELS

24/7 UNESCORTED KEYLESS ACCESS FOR THE UTILITY METERS AND UTILITY AC DISCONNECT

REVISIONS				
#	DESCRIPTION	BY	CHK'D	DATE
0	IC SET	TB	MH	12/23/2024
1				
2				

DRAWN BY :
 TONY BRIENZA

PROJECT NAME & JOB #:
 CONNEXUS LANDFILL

SHEET DESCRIPTION :
 TITLE SHEET

SHEET SIZE:
 36X24

SPACE FOR PE STAMP :

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.

Signature: *Michael Herman*
 Name: Michael Herman
 Date: 01/24/2025 License Number: 57145

SHEET :
 PV-0.0

SHEET INDEX				
SHEET #	DESCRIPTION	ISSUE DATE	REV. NO.	REV. DATE
PV-0.0	TITLE SHEET	12/23/2024		
PV-1.0	SITE PLAN	12/23/2024		
PV-1.1	DETAILED SITE PLAN	12/23/2024		
PV-1.2	ALTA W/SITE PLAN	12/23/2024		
PV-1.3	ALTA W/SITE PLAN	12/23/2024		
PV-1.4	ARRAY MEASUREMENTS PLAN	12/23/2024		
PV-1.5	ARRAY MEASUREMENTS PLAN	12/23/2024		
PV-1.6	WATERSHED W/SITE PLAN	12/23/2024		
PV-1.7	WATERSHED W/SITE PLAN	12/23/2024		
PV-3.0	ONE LINE DIAGRAM	12/23/2024		
PV-3.1	SOLAR LABELS	12/23/2024		
PV-5.0	MODULE SPECIFICATIONS	12/23/2024		
PV-5.1	INVERTER SPECIFICATIONS	12/23/2024		
PV-5.2	Vac BREAKER BOX SPECIFICATIONS	12/23/2024		
PV-5.3	Vac SWITCH BOX SPECIFICATIONS	12/23/2024		
PV-5.4	IN-LINE EQUIPMENT RACK SPECIFICATIONS	12/23/2024		
PV-5.5	MEDIUM VOLTAGE TRANSFORMER SKID SPEC.	12/23/2024		
PV-5.6	RACKING SPECIFICATIONS	12/23/2024		
PV-5.7	GRID CONNEX SPECIFICATIONS	12/23/2024		
PV-5.8	AWM HANGER SPECIFICATIONS	12/23/2024		
PV-5.9	VIPER RECLOSER SPECIFICATIONS	12/23/2024		
PV-5.10	VIPER RECLOSER SPECIFICATIONS	12/23/2024		
PV-5.11	METER CABINET SPECIFICATIONS	12/23/2024		
PV-6.0	EQUIPMENT PAD CONCRETE	12/23/2024		

CELF 2024 LLC

COORDINATES / LOCATION (44.951642N, -95.389826W)
 6501 SUNWOOD DR NW, RAMSEY, MN 55303
 5.046 MW DC / 4.125 MW AC

PROJECT DESCRIPTION
 THIS PROJECT WILL CONSTRUCT A NEW GROUND-MOUNTED PV ARRAY. PANELS WILL BE INSTALLED USING A SINGLE AXIS TRACKING GROUND MOUNTED RACKING SYSTEM. INVERTERS WILL CONSIST OF STRING INVERTERS. THE SYSTEM WILL BE DIRECTLY CONNECTED TO THE CONNEXUS DISTRIBUTION NETWORK.

PV SYSTEM INFORMATION
 FOOTPRINT FENCE AREA: 23.04 ACRES
 RACKING: DURATRACK HZv3 SOLAR TRACKER
 ARRAY TILT: +/- 52°
 AZIMUTH: 90/270°
 PV MODULES: JINKO JKM 580N-72HL4-BDV
 MODULE STC WATTS: 580W
 TOTAL NO. OF MODULES: 8700
 PV SYSTEM DC RATING: 5,046 kW DC

INVERTER: CPS SCH275KTL-DO-US-800-V2
 INVERTER AC APPARENT POWER: 275kVA AC
 INVERTER RATED AC ACTIVE POWER: 275kW AC
 TOTAL NO. OF INVERTERS: 15
 PV SYSTEM AC RATING: 4.125mW AC
 DC/AC RATIO: 1.223
 GROUND COVERAGE RATIO: 35.4%

PROJECT OWNER
 CELF 2024 LLC
 3155 104TH LN NE
 BLAINE, MN 55449

PROJECT DEVELOPER
 CEDAR CREEK ENERGY
 3155 104TH LN NE
 BLAINE, MN 55449

CONTACT:
 ALEX GAST
 ALEX.GAST@CEDARCREEKENERGY.COM
 (763) 450-9765

CONTRACTOR
 CEDAR CREEK ENERGY
 3155 104TH LN NE
 BLAINE, MN 55449

CONTACT:
 ALEX GAST
 ALEX.GAST@CEDARCREEKENERGY.COM
 (763) 450-9765

ELECTRICAL ENGINEER
 CEDAR CREEK ENERGY
 3155 104TH LN NE
 BLAINE, MN 55449

CONTACT:
 MIKE HERMAN
 MIKE.HERMAN@CEDARCREEKENERGY.COM
 (763) 432-5261

UTILITY
 CONNEXUS
 14601 RAMSEY BLVD
 RAMSEY, MN 55303

CONTACT:
 DER.CONNECTIONCOORDINATOR
 @CONNEXUSENERGY.COM
 (763) 691-8981

APPLICATION CODES & STANDARDS

- IBC 2018
- MN BUILDING CODE 2020
- NATIONAL ELECTRIC CODE 2023

PROJECT LOCATION

CELF 2024 LLC
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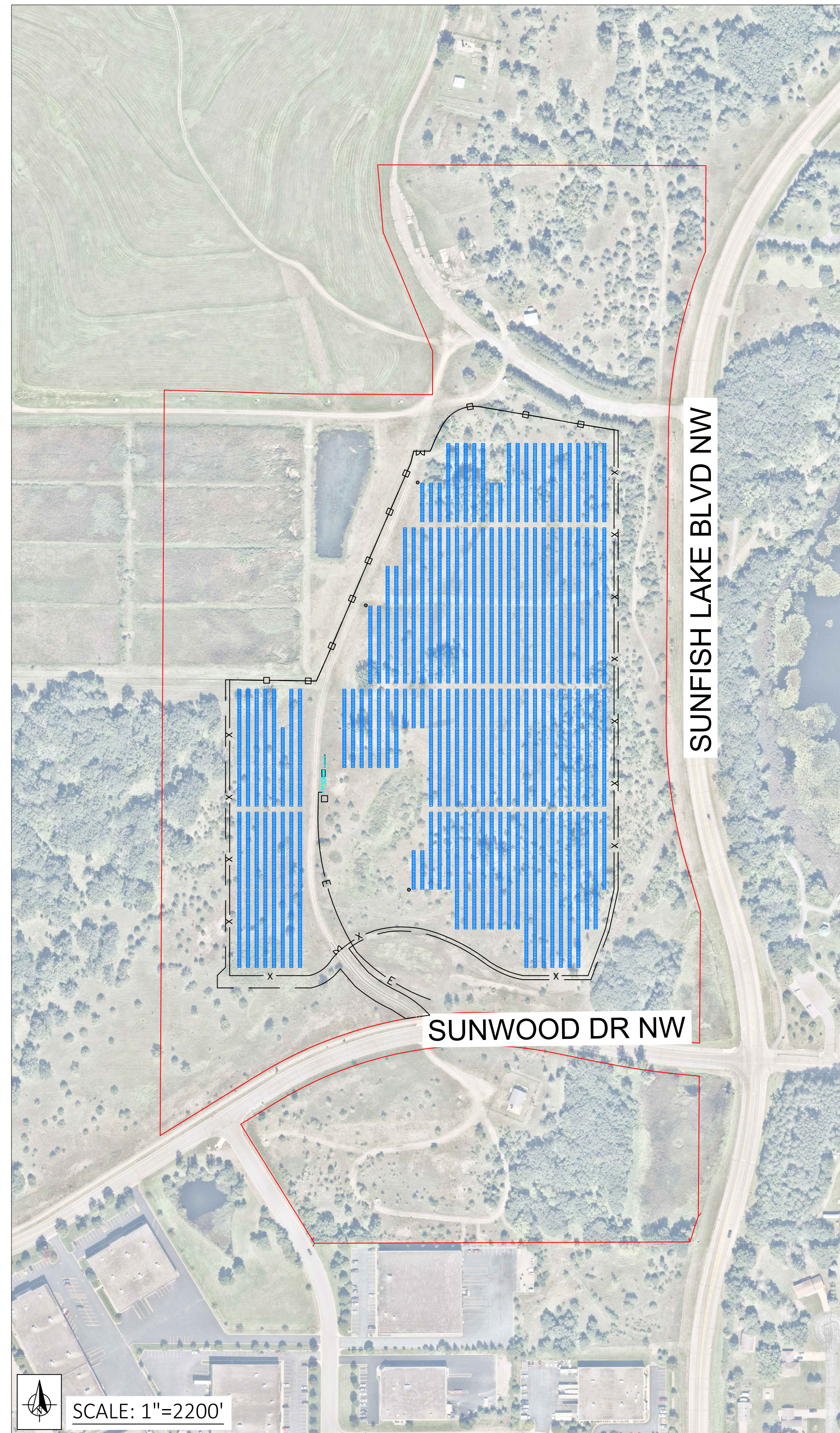


ABBREVIATIONS :

1. A: AMPS	8. EPS: ELECTRIC POWER SERVICE	14. NF: NON-FUSED	19. PoI: POINT OF CONNECTION
2. AC: ALTERNATING CURRENT	9. (EXT): EXTERIOR	15. P: POLE	20. PV: PHOTOVOLTAIC
3. C.B.: CIRCUIT BREAKER	10. (INT): INTERIOR	16. PCC: POINT OF COMMON COUPLING	21. RPA: REFERENCE POINT OF APPLICABILITY
4. DC: DIRECT CURRENT	11. kW: KILOWATT	17. PH: PHASE	22. W: WATT
5. DCCB: DC COMBINER	12. MLO: MAIN LUG ONLY	18. PoC: POINT OF DER CONNECTION	23. W: WIRE
6. (E): EXISTING	13. MCB: MAIN CIRCUIT BREAKER		24. Y: WYE
7. (N): NEW			

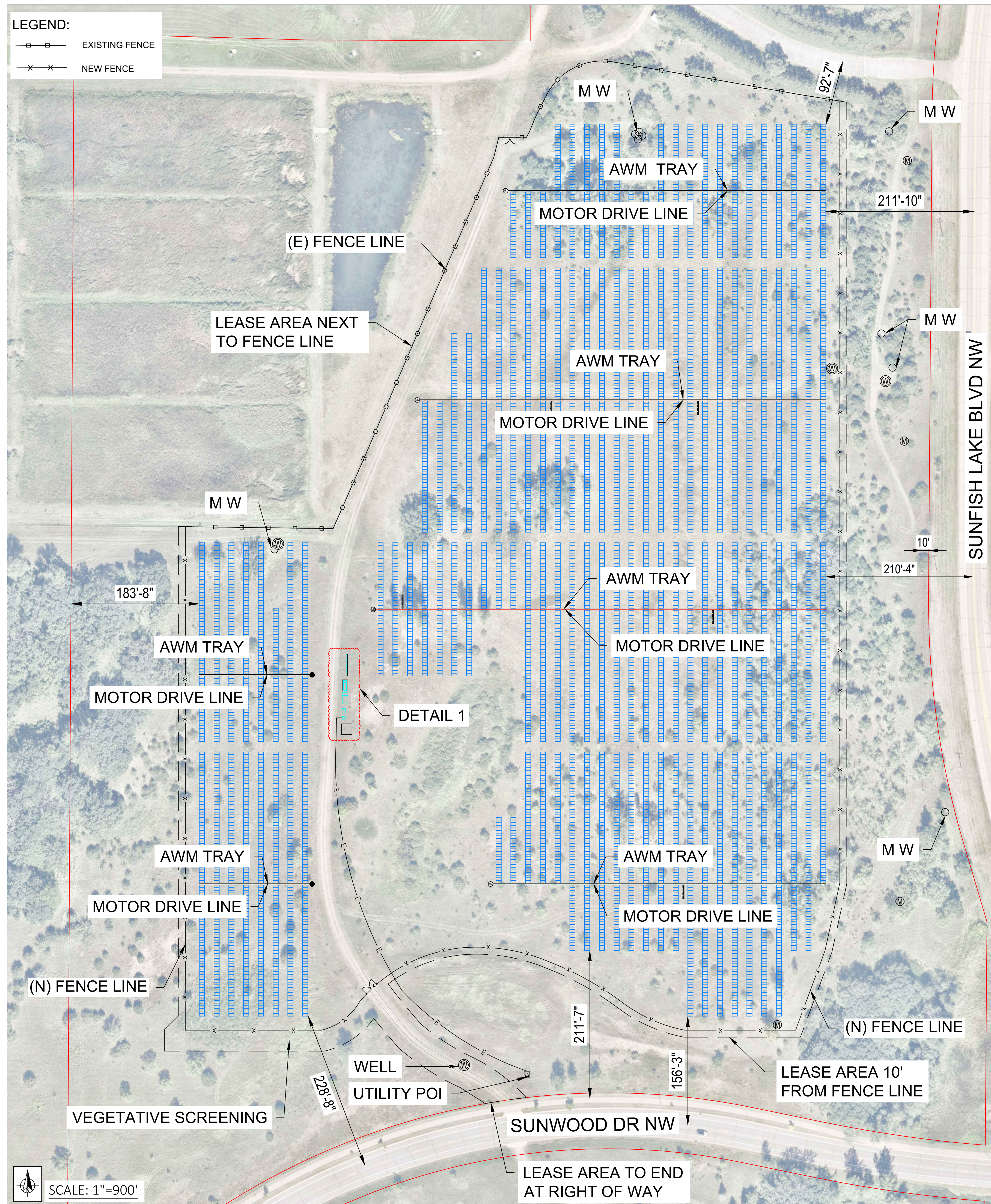
GENERAL PROJECT NOTES:

- HANDLING OF THE MODULES, INCLUDING RIGGING AND UNPACKING SHALL BE PER THE MANUFACTURER'S INSTRUCTION.
- MODULES SHOULD NOT BE WALKED ON, STEPPED ON, OR HAVE ANY HEAVY OBJECTS PLACED ON THEM FOR ANY REASON.
- MODULES SHALL BE STACKED SO THAT MODULE FRAMES DO NOT REST ON THE BACKSHEET OF ANOTHER MODULE.
- PV MODULES SHALL BE STORED SO THAT MOISTURE IS NOT COLLECTED ON THE BACKSHEET. (FACE UP)
- THE USE OF SPRAY FOAM IS PROHIBITED ON ANY GROUND MOUNTED SYSTEM WHERE SUSCEPTIBLE TO RODENT INTRUSION. DUCT SEAL MAY BE USED INSTEAD.
- TORQUE MARKS SHALL BE APPLIED TO ALL ELECTRICAL CONNECTIONS USING COLORED PAINT PENS, NAIL-POLISH, OR SIMILAR HARDENING MEDIA (NOT MARKER). EVERY NUT AND BOLT THAT HAS A TORQUE REQUIREMENT PER MANUFACTURE SPEC SHALL BE MARKED.
- CONDUCTORS AND CONNECTORS SHALL AVOID DIRECT SUNLIGHT AND WATER EXPOSURE, TO THE GREATEST EXTENT POSSIBLE.
- WHERE EXPOSED TO UV, WIRES SHALL BE PROTECTED BY UV RATED SPIRAL WRAP, SPLIT LOOM, OR EQUIVALENT OWNER APPROVED METHOD.
- MAINTAIN CABLE AND WIRE BENDING RADII AT LEAST FIVE TIMES THE CABLE OR WIRE DIAMETER, OR AS DIRECTED BY THE NEC.
- WIRE SHOULD BE PROTECTED FROM SHARP EDGES WITH UV RATED SPIRAL WRAP, EDGE-GUARD, SPLIT LOOM, OR EQUIVALENT OWNER APPROVED METHOD.
- IF ALUMINUM CONDUCTORS ARE UTILIZED, CONTRACTOR SHALL FOLLOW INDUSTRY BEST PRACTICES AND MANUFACTURERS RECOMMENDATIONS FOR CONNECTION OF DISSIMILAR METAL CONDUCTORS.
- ALL ENCLOSURES SHALL BE MOISTURE TIGHT WITH SEALING GASKETS OR OTHER PROTECTIVE MEANS. CARE SHALL BE TAKEN TO AVOID EXCESS MOISTURE IN ENCLOSURES ARISING FROM CONDENSATION IN CONDUITS WHICH ENTER FROM UNDERGROUND.
- ALL EQUIPMENT ENCLOSURES SHALL BE SEALED TO MINIMIZE MOISTURE INGRESS AND PREVENT DAMAGE DUE TO INSECTS AND VERMIN.
- METAL SHAVINGS SHALL BE CLEANED FROM ENCLOSURE INTERIORS, TOP SURFACES OF ENCLOSURE, ROOF SURFACE, AND ANY ADDITIONAL AREAS.
- ANY DAMAGE TO ENCLOSURE SUCH AS SCUFFS OR MARKS THAT DAMAGE PAINT SHALL BE PREPARED AND COLD SPRAY GALVANIZED USING THE ENCLOSURES MATCHING ANSI COLOR.
- UNDERGROUND SPLICES ARE NOT PERMITTED UNLESS EXPRESSLY APPROVED BY OWNER
- THERE IS NOT LIGHTING ON SITE



LEGEND:

- EXISTING FENCE
- NEW FENCE



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DRAWN BY :
TONY BRIENZA

PROJECT NAME & JOB #:
CONNEXUS LANDFILL

SHEET DESCRIPTION :
SITE PLAN

SHEET SIZE:
36X24

SPACE FOR PE STAMP :

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Signature: *Michael Herman*
Name: Michael Herman
Date: 01/24/2025 License Number: 57145

DETAIL 1

- Vac SWITCH BOX #5
- Vac SWITCH BOX #4
- Vac SWITCH BOX #3
- Vac SWITCH BOX #2
- Vac SWITCH BOX #1
- 100A PANEL BOARD
- 60A PANEL BOARD

MEDIUM VOLTAGE TRANSFORMER SKID

GRIDCONNEX MV EQUIPMENT

METER CABINET

RECLOSER CABINET

SHED 15' X 15'

GENERAL NOTES:

1. BACK-OF-MODULE TEMPERATURE SENSORS MUST BE INSTALLED IN THE CENTER OF AN INDIVIDUAL MODULE CELL AT THE CENTER OF THE MODULE AND ATTACHED USING MANUFACTURER APPROVED ADHESIVE.



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CONNEXUS LANDFILL

SHEET DESCRIPTION :
DETAILED SITE PLAN

SHEET SIZE:
36X24

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SHEET :
PV-1.1

SCALE: 1"=70'



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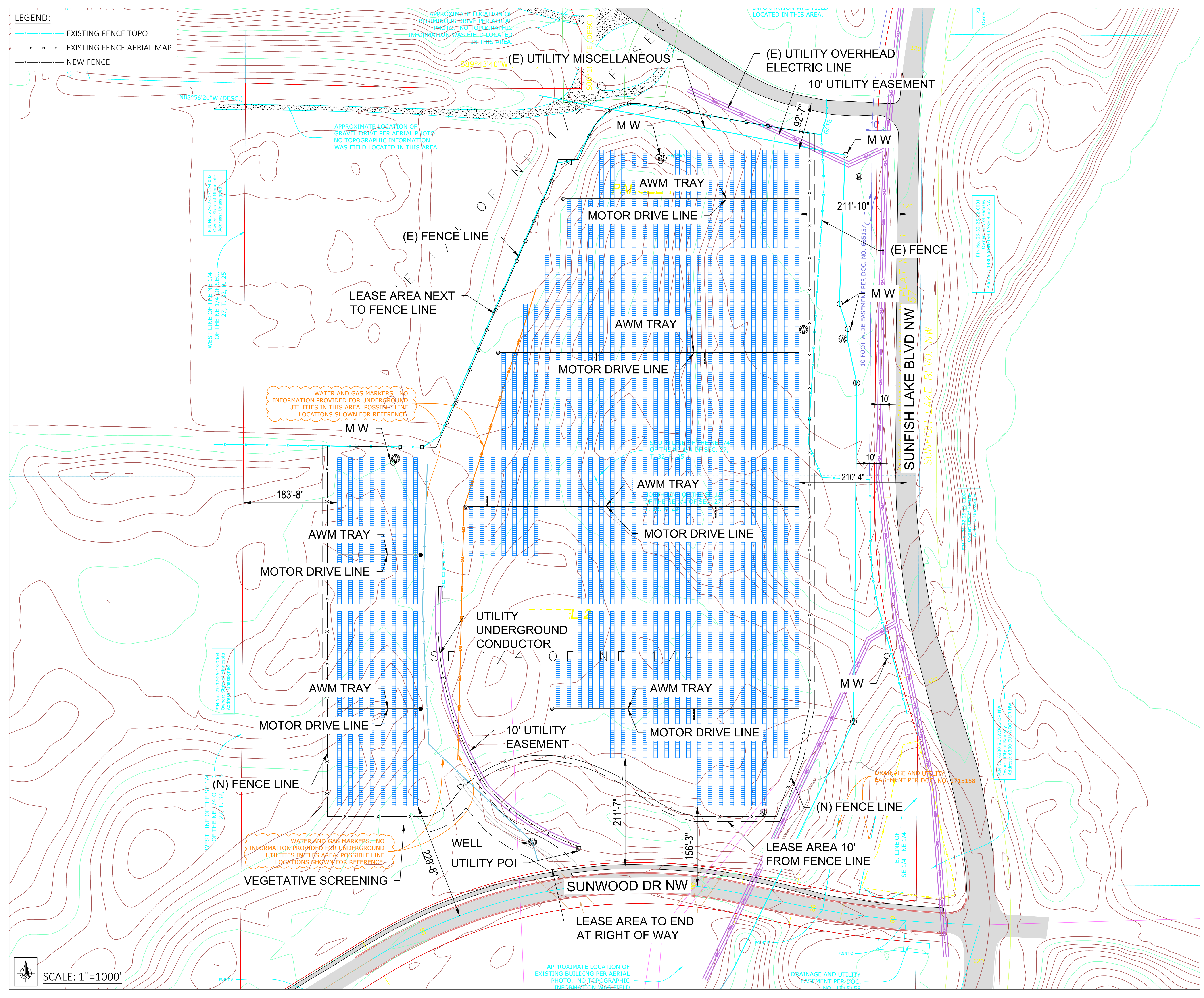
SHEET DESCRIPTION :
 ALTA WITH SITE PLAN

SHEET SIZE:
 36X24

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SHEET :
 PV-1.2



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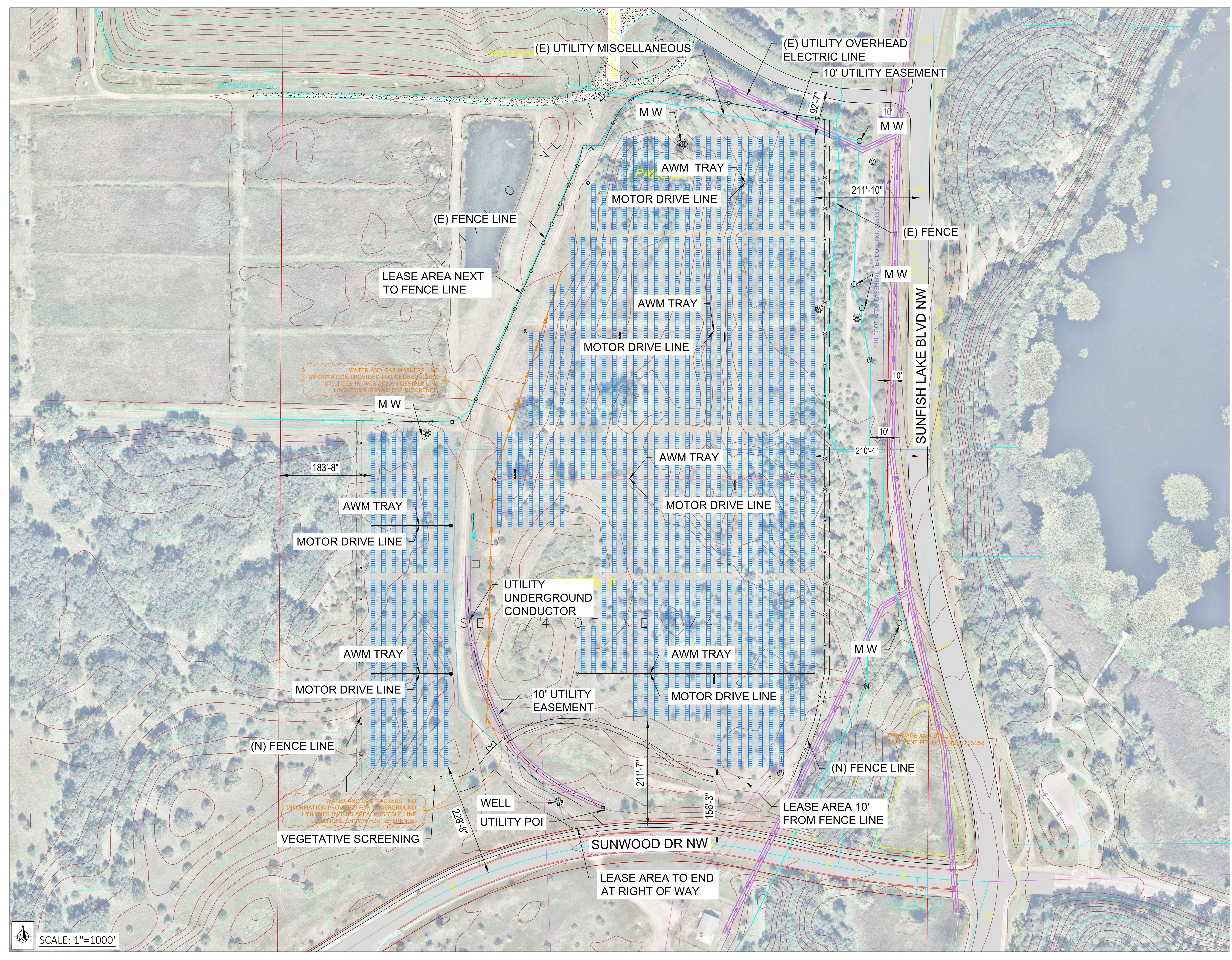
PROJECT NAME & JOB #:
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SHEET DESCRIPTION:
 ALTA WITH SITE PLAN

SHEET SIZE:
 36X24

SPACE FOR PE STAMP:

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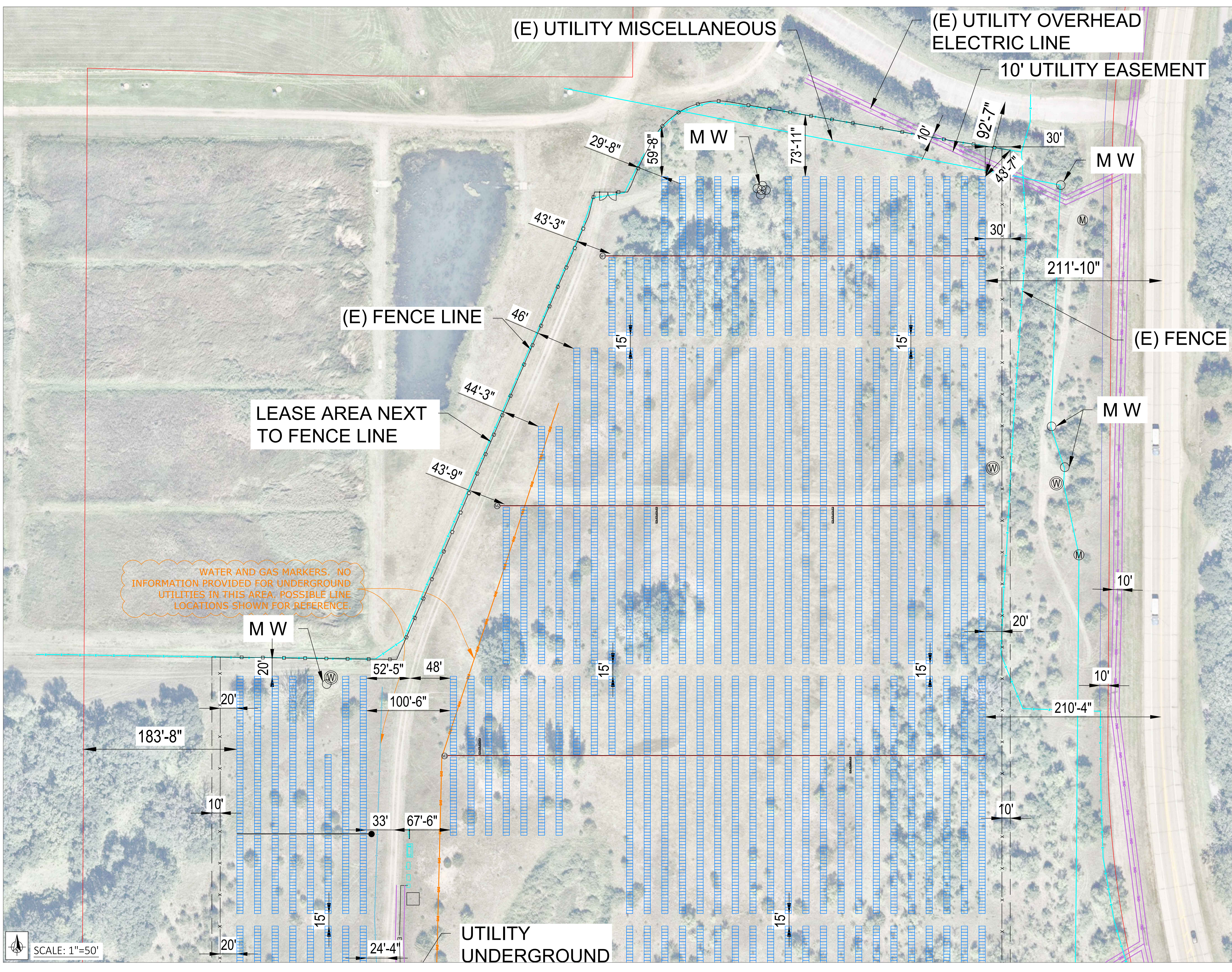
SHEET DESCRIPTION :
 ARRAY MEASUREMENTS PLAN

SHEET SIZE:
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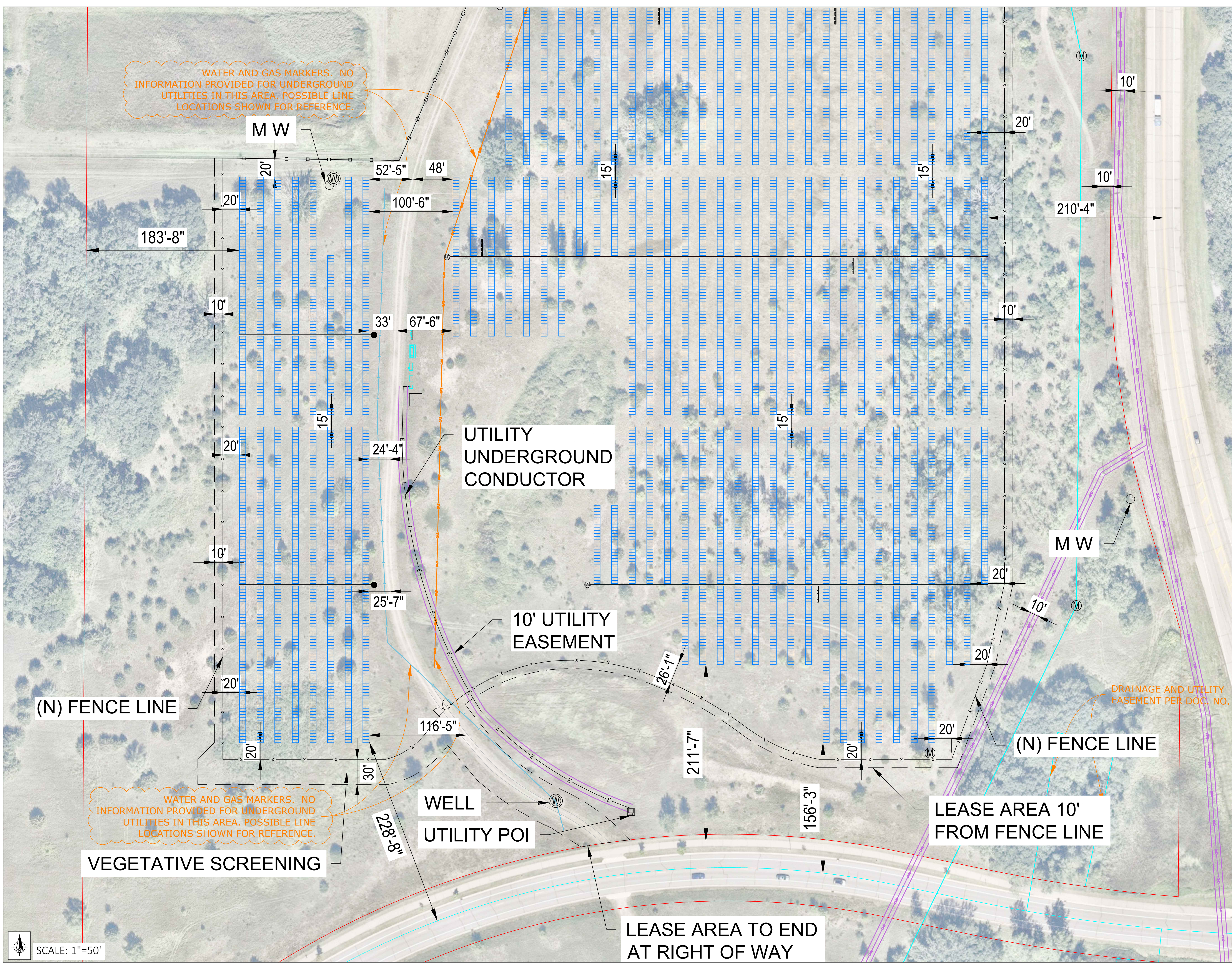
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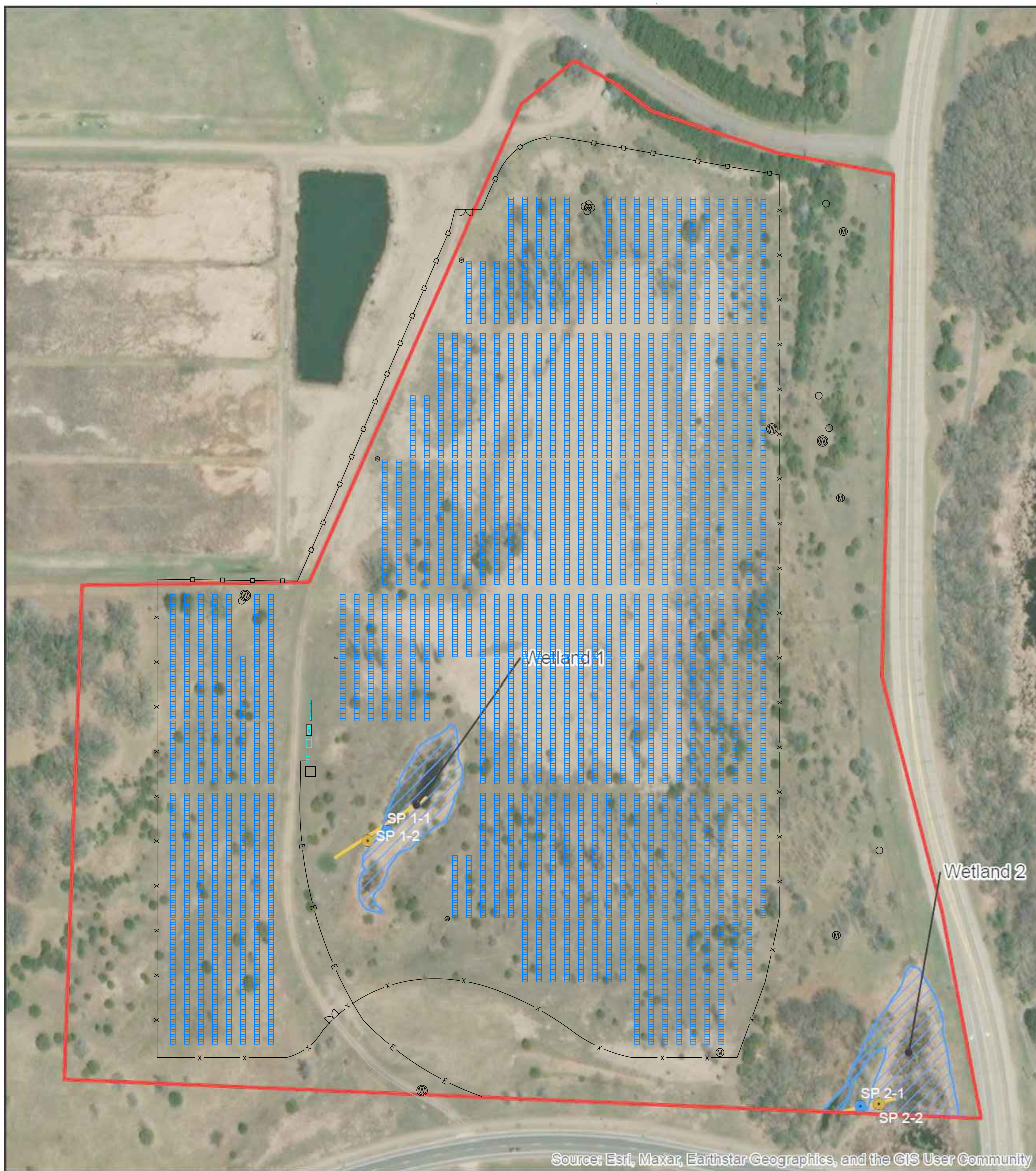
SHEET :
PV-1.5



WATER AND GAS MARKERS. NO INFORMATION PROVIDED FOR UNDERGROUND UTILITIES IN THIS AREA. POSSIBLE LINE LOCATIONS SHOWN FOR REFERENCE.

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SCALE: 1"=50'



- LEGEND:**
- TRACKER DRIVELINE - SNAKE TRAY
 - MOTOR POWER AND CONTROL
 - PV OUTPUT CIRCUITS
 - PV SOURCE CIRCUITS
 - Ⓜ TRACKER MOTOR



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SHEET DESCRIPTION :
 WATER SHED WITH SITE PLAN

SHEET SIZE:
 36X24

SPACE FOR PE STAMP :

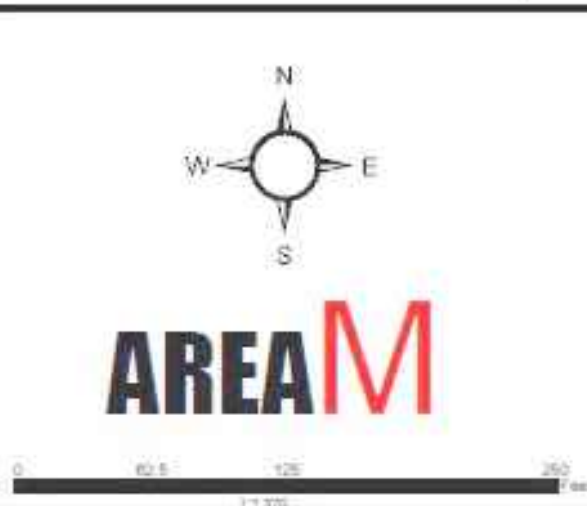
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Connexus Landfill

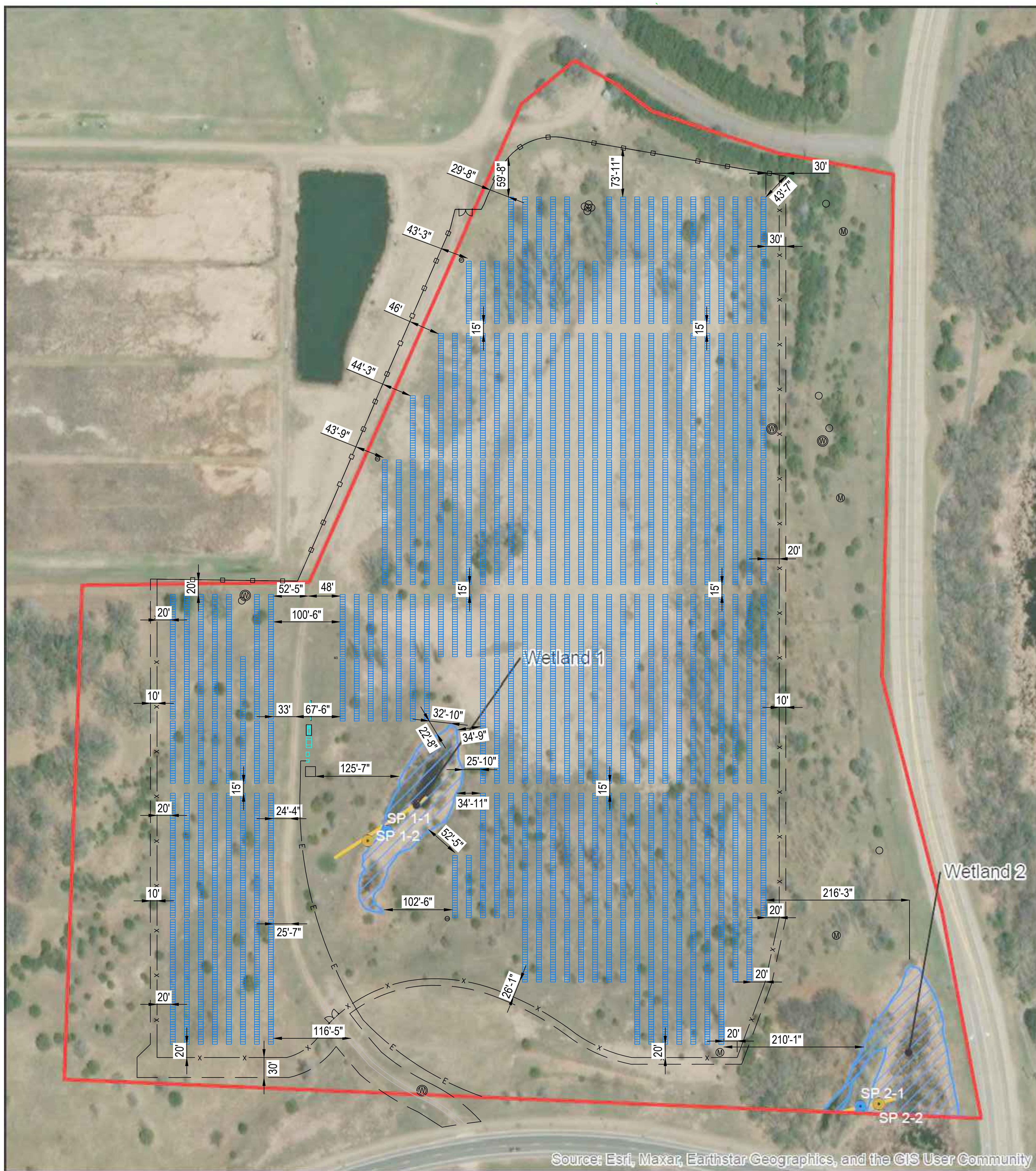
Map 5. Delineation Map

Anoka County, MN

- Study Area
- Delineated Wetland
- Upland Sampling Point
- Wetland Sampling Point
- Wetland Transect



SHEET :
 PV-1.6



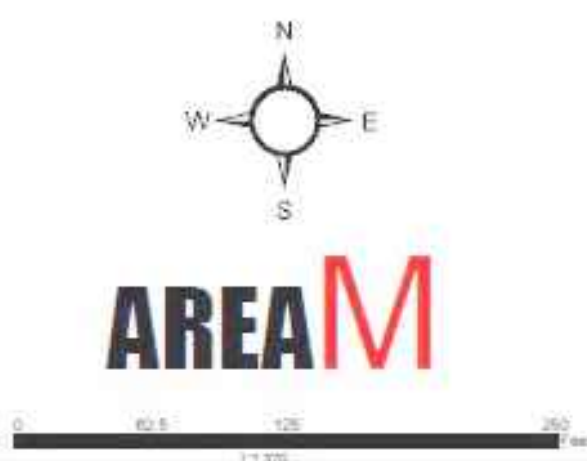
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Connexus Landfill

Map 5. Delineation Map

Anoka County, MN

- Study Area
- Delineated Wetland
- Upland Sampling Point
- Wetland Sampling Point
- Wetland Transect



- LEGEND:**
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 - M1 TRACKER MOTOR



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NO POSITION, DISTANCE, OR CLEARANCE ISSUES WITH OVERHEAD ELECTRIC SERVICE LINES OR OTHER UTILITIES IN RELATION TO THE PV PANELS

24/7 UNESCORTED KEYLESS ACCESS FOR THE UTILITY METERS AND UTILITY AC DISCONNECT

REVISIONS				
#	DESCRIPTION	BY	CHK'D	DATE
0	IC SET	TB	MH	12/23/2024
1				
2				

DRAWN BY :
 TONY BRIENZA

PROJECT NAME & JOB #:
 CONNEXUS LANDFILL

SHEET DESCRIPTION :
 WATER SHED WITH SITE PLAN

SHEET SIZE:
 36X24

SPACE FOR PE STAMP :

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.
 Signature: *Michael Herman*
 Name: Michael Herman
 Date: 01/24/2025 License Number: 57145

SHEET :
 PV-1.7

CEDAR CREEK ENERGY
 3155 104TH LN NE
 BLAINE, MN, 55449
 PHONE # 763-450-9763

PROJECT ADDRESS
 6501 SUNWOOD DR. NW
 RAMSEY, MN 55303

UTILITY CUSTOMER OF RECORD
 CELF 2024 LLC

PROJECT DESCRIPTION	
SYSTEM SIZE (DC)	5.046 MW
SYSTEM SIZE (AC)	4.125 MW
DC/AC RATIO	1.223
AZIMUTH	90/270°
TILT	+/- 52°
MODULE TYPE	JINKO JKM580N-72HL4-BDV
MODULE COUNT	8,700
INVERTER TYPE	CPS SCH275KTL-DO/US 800 275 kW
INVERTER POWER (kW)	275kW
RACKING	SINGLE AXIS TRACKER
MONITORING	ALSO ENERGY
PROJECT AREA	~23.04 ACRE
MIN./MAX. TEMP	-26°C / 32°C

OTHER NOTES

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DRAWN BY :
 TONY BRIENZA

PROJECT NAME & JOB #:
 CONNEXUS LANDFILL

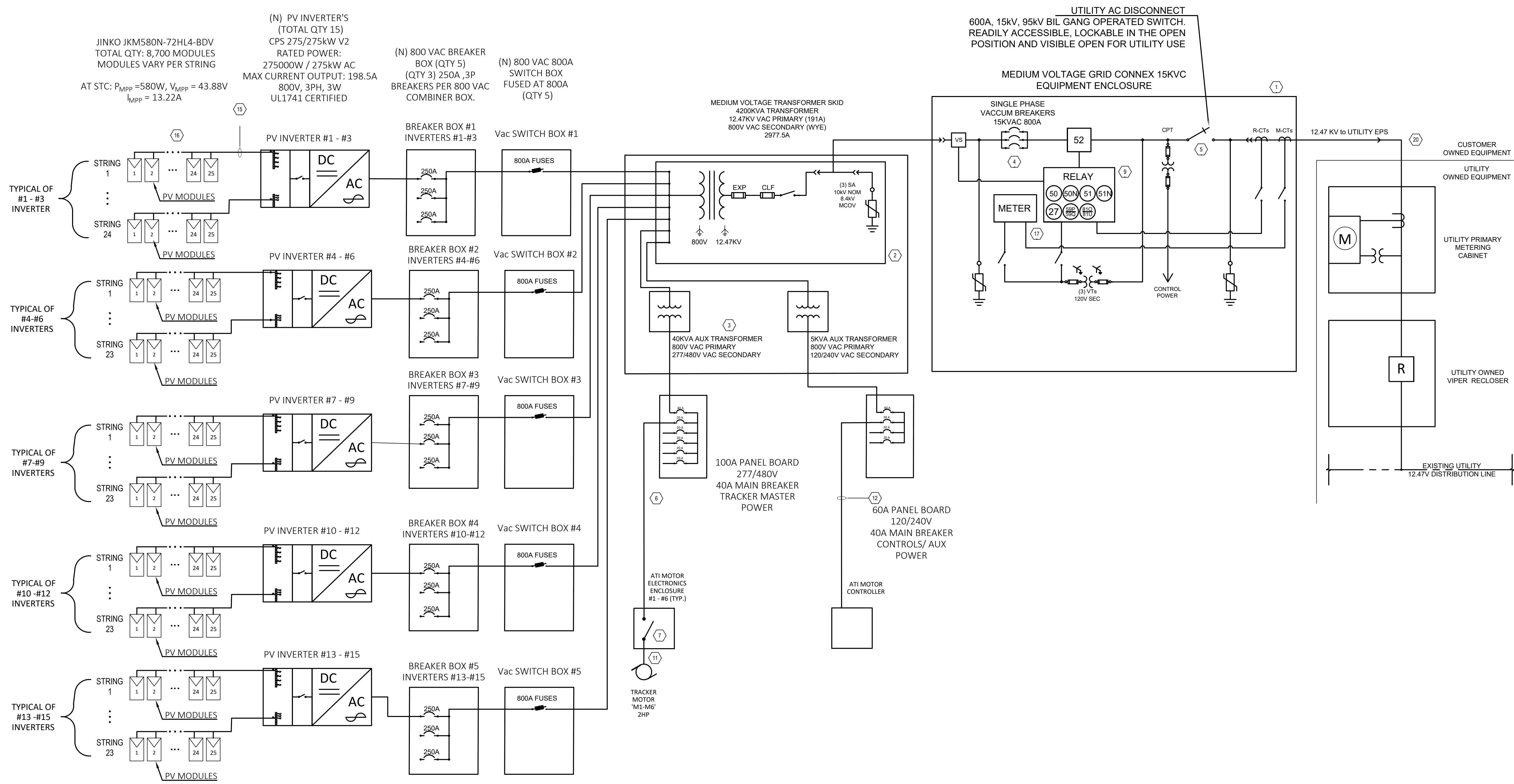
SHEET DESCRIPTION :
 ONE LING DIAGRAM

SHEET SIZE:
 36X24

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 Signature: *Michael Herman*
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 Date: 01/24/2025 License Number: 57145

SHEET :
 PV-3.0



KEYED NOTES:

- GRID CONNEX MV CONNECTION CABINET. INCLUDED INTEGRATED VACUUM BREAKER, VISIBLE BLADE DISCONNECT, SEL RELAY AND CUSTOMER OWNED PTs, CTs AND METERING.
- CPS MEDIUM VOLTAGE TRANSFORMER SKID WITH 4.2 MVA, 12.47 kV PRIMARY TO 800 Vac SECONDARY.
- CPS MEDIUM VOLTAGE SKID EQUIPPED WITH (1) 40KVA AUX TRANSFORMER, 800V PRIMARY TO 277/480V SECONDARY, (1) 5KVA TRANSFORMER PRIMARY TO 120/240V SECONDARY.
- INDICATED CIRCUIT BREAKER SHALL BE EQUIPPED WITH AUXILIARY CONTACT TO TRIGGER MAIN PV DISCONNECT UPON OPENING OF CIRCUIT BREAKER.
- PROVIDE 600A, 3P DISCONNECT SIZED AS NOTED. DISCONNECT SHALL SERVE AS UTILITY PV AC DISCONNECT.
- PROVIDE (3) #10 AWG CU PHASE CONDUCTORS AND #10 AWG CU GROUND IN 3/4" CONDUIT.
- MOTOR ELECTRONICS ENCLOSURE IS LOCATED AT EACH MOTOR. MOTOR ELECTRONICS ENCLOSURE IS FURNISHED BY RACKING MANUFACTURER. TERMINATE BOTH THE POWER AND CONTROL WIRING AT ENCLOSURE. COORDINATE WITH EQUIPMENT PROVIDER FOR MORE ELECTRICAL REQUIREMENTS.
- PROVIDE GROUNDING FOR SERVICE ENTRANCE EQUIPMENT PER NEC REQUIREMENTS.
- A SEL 751 FEEDER PROTECTION RELAY AND SEL 735 POWER QUALITY AND REVENUE METER TO BE PROVIDED AND INTEGRATED INTO THE FEDERAL PACIFIC GRID CONNEX GEAR.
- INVERTERS ARE EQUIPPED WITH TOUCH-SAFE FUSE HOLDERS AND STANDARD A74, 30A DC FUSES ON THE POSITIVE SIDE ONLY.
- CIRCUIT BETWEEN MOTOR ELECTRONICS ENCLOSURE AND ASSOCIATED TRACKER MOTOR FURNISHED BY EQUIPMENT SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE WITH EQUIPMENT SUPPLIER FOR MORE INFORMATION.

- PROVIDE A 20A, 2-POLE BREAKER IN CONTROL PANEL BOARD FOR CIRCUITS SHOWN.
- PROVIDE (2) #10 AWG CU PHASE CONDUCTORS AND #10 AWG CU GROUND IN 3/4" CONDUIT TO EACH ENCLOSURE AS SHOWN.
- PROVIDE CONDUCTOR FOR EACH LEG OF DC CIRCUIT AS SHOWN. HOMERUN CABLE SHALL BE SECURELY FASTENED TO SOLAR PANEL STRUCTURE WITH LISTED SUPPORT HARDWARE. BOTH POSITIVE AND NEGATIVE CONDUCTOR ARE UNGROUNDED AND SHALL BE COLOR CODED IN THE FOLLOWING FASHION:
 POSITIVE = RED
 NEGATIVE = BLACK
- CONDUCTORS SHALL BE INSTALLED IN ACCORDANCE WITH NEC 690.31 AND Routed WITHIN THE RACKING SYSTEM. CONDUCTORS SHALL BE INSTALLED IN A WORKMANSHIP LIKE MANNER, PROTECTED FROM SHARP METALLIC SURFACES, PROPERLY BUNDLED (WITH UV RESISTANT MATERIALS) AND SECURED WITHIN THE RACKING SYSTEM.
- PROVIDE #4 AWG BARE EQUIPMENT GROUNDING CONDUCTOR TO RACKING SYSTEM USING LISTED GROUNDING CONNECTOR KIT PER MANUFACTURER'S REQUIREMENT. RACKING SYSTEM IS LISTED AND IDENTIFIED FOR BONDING PV MODULES. FIELD VERIFY. EQUIPMENT GROUNDING CONDUCTOR SHALL BE RUN WITH THE PV ARRAY CIRCUIT CONDUCTORS IN CONDUIT WHEN CIRCUIT CONDUCTORS LEAVE THE VICINITY OF THE PV ARRAY.
- UPS POWER IS PROVIDED IN THE GRIDCONNEX TO THE SEL 751 AND SEL 735.
- THERE IS NOT LIGHTING ON SITE
- THE INVERTER SUPPORTS INDUSTRY STANDARD MODBUS R485, ETHERNET, CAN, AND AC-PLC COMMUNICATION MODES. AC-PLC COMMUNICATION REQUIRES CONNECTION OF THE CPS AC-PLC KIT ACCESSORY
- CCE TO PROVIDE AND INSTALL MV CONDUCTORS TO UTILITY PRIMARY METERING CABINET. CONNEXUS IS RESPONSIBLE FOR TERMINATING THE MV CONDUCTORS IN THE UTILITY PRIMARY METERING CABINET

GENERAL NOTES:

- EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC 2023 EDITION AND ALL APPLICABLE REQUIREMENTS OF THE LOCAL ELECTRIC UTILITY COMPANY AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- FOLLOW MANUFACTURERS SUGGESTED INSTALLATION PRACTICES AND WIRING SPECIFICATIONS.
- FIELD VERIFY DC WIREBOX PROVIDED WITH INVERTER AND FOLLOW MANUFACTURER REQUIREMENTS FOR TERMINATING DC CONDUCTORS.
- PROVIDE DC SOURCE CONDUCTOR JUMPERS UTILIZING WIRE SIZE AND CONNECTORS THAT MATCH MODULE BETWEEN MODULES IF MODULE PROVIDED CONDUCTORS ARE NOT LONG ENOUGH TO CONNECT TO EACH OTHER.
- POWER FACTOR IS ASSUMED TO BE 1 (UNITY)

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#	DESCRIPTION	BY	CHK'D	DATE
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1				
2				

DRAWN BY :
TONY BRIENZA

PROJECT NAME & JOB #:
CONNEXUS LANDFILL

SHEET DESCRIPTION :
SOLAR LABELS

SHEET SIZE:
36X24

SPACE FOR PE STAMP :

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Signature: Michael Herman
Name: Michael Herman
Date: 01/24/2025 License Number: 57145

SHEET :
PV-3.1

LABEL NOTES:

- LABELS ARE WEATHERPROOF, DURABLE, AND PERMANENTLY MOUNTED
- LABELS IN COMPLIANCE WITH NEC 690.0
- WARNING PV POWER SOURCE LABEL: MARKINGS PLACED ON AC CONDUIT, AC RACEWAYS, AC ENCLOSURES AND ALL AC COMBINER/AC JUNCTION BOXES
- CAUTION: SOLAR CIRCUIT LABEL: MARKINGS PLACED ON DC CONDUIT AND DC JUNCTION BOXES SPACED AT 10 FT OR LESS

PLACARD NOTES:

- BACKGROUND ON ALL PLACARDS SHALL BE RED WITH WHITE LETTERING/LINES
- PLACARD SHALL BE PLACED AT MINIMUM AT SERVICE DISCONNECT AND SERVICE METER

WARNING

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN

GROUND MOUNT PHOTOVOLTAIC ARRAY

PER NEC 690.56(B), NEC 705.10
PLACE AT EACH SERVICE EQUIPMENT LOCATION AND AT THE LOCATION(S) OF THE SYSTEM DISCONNECT(S) FOR ALL ELECTRIC POWER PRODUCTION SOURCES

PHOTOVOLTAIC DC DISCONNECT

LABEL LOCATION
DC DISCONNECT, DC COMBINER

PV AC DISCONNECT

RATED AC OUTPUT CURRENT: 198.5 A
NOMINAL OPERATING AC VOLTAGE: 800 V

LABEL LOCATION
AC DISCONNECTS

PV AC DISCONNECT

RATED AC OUTPUT CURRENT: 595.5 A
NOMINAL OPERATING AC VOLTAGE: 800 V

LABEL LOCATION
AC DISCONNECTS

PV AC DISCONNECT

RATED AC OUTPUT CURRENT: 2977.5 A
NOMINAL OPERATING AC VOLTAGE: 800 V

LABEL LOCATION
AC DISCONNECTS

WARNING

INVERTER OUTPUT CONNECTION
DO NOT RELOCATE THIS
OVERCURRENT DEVICE

LABEL LOCATION
PV COMBINER, MAIN SERVICE DISCONNECT

CAUTION: SOLAR CIRCUIT

LABEL LOCATION
DC CONDUIT, RACEWAYS, ENCLOSURES
AT LEAST EVERY 10FT

MAIN PV SYSTEM DISCONNECT

LABEL LOCATION
AC DISCONNECT, POINT OF INTERCONNECTION

CAUTION: SOLAR ELECTRIC SYSTEM CONNECTED

LABEL LOCATION
PLACED ON OUTSIDE COVERS OF COMBINER PANELS

WARNING

ELECTRIC SHOCK HAZARD
ELECTRIC SHOCK HAZARD, THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED

LABEL LOCATION
DC DISCONNECT'S

WARNING

TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

LABEL LOCATION
MAIN SERVICE DISCONNECT

WARNING

ELECTRIC SHOCK HAZARD
TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

DC VOLTAGE IS ALWAYS PRESENT WHEN SOLAR MODULES ARE EXPOSED TO SUNLIGHT

LABEL LOCATION
DC COMBINER'S, INVERTER'S

WARNING

ELECTRIC SHOCK HAZARD
TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL LOCATION
MAIN SERVICE DISCONNECT

WARNING

ELECTRIC SHOCK HAZARD
NO USER SERVICEABLE PARTS INSIDE
CONTACT AUTHORIZED PERSONNEL FOR SERVICE

LABEL LOCATION
INVERTER, JUNCTION BOXES, AC DISCONNECT

WARNING: PHOTOVOLTAIC POWER SOURCE

LABEL LOCATION
CONDUIT, COMBINER BOX

GENERATION SYSTEM CONNECTED

LABEL LOCATION
POINT OF INTERCONNECTION, MAIN SERVICE DISCONNECT

PHOTOVOLTAIC SYSTEM DC DISCONNECT

OPERATING VOLTAGE 1097 V_{DC}
OPERATING CURRENT 343.72 A
MAX SYSTEM VOLTAGE 1500 V_{DC}
SHORT CIRCUIT CURRENT I_{sc}
CHARGE CONTROL MAX A

LABEL LOCATION
INVERTER 1-15

UTILITY AC DISCONNECT

LABEL LOCATION
UTILITY AC DISCONNECT

UTILITY BILLING METER

LABEL LOCATION
UTILITY BILLING METER



THE MOST DEPENDABLE SOLAR PRODUCT

EAGLE 72 G6B

570-590 WATT • N-TYPE BIFACIAL

Positive power tolerance of 0~+3%

- NYSE-listed since 2010, Bloomberg Tier 1 manufacturer
- Top performance in the strictest 3rd party labs
- Automated manufacturing utilizing artificial intelligence
- Vertically integrated, tight controls on quality
- Premium solar factories in USA, Vietnam, and Malaysia

KEY FEATURES

- N-Type Technology**
N-type cells offer Jinko's in-house TOPCon technology with better performance and improved reliability.
- Multi Busbar Half Cell Technology**
Better light trapping and current collection to improve module power output and reliability.
- Bifacial Power Gain**
N-Type architecture increases bifaciality for higher backside bonus and better lifetime yield.
- Low Temperature Coefficient**
Best in class temperature coefficient for highest lifetime energy yield in all climates.

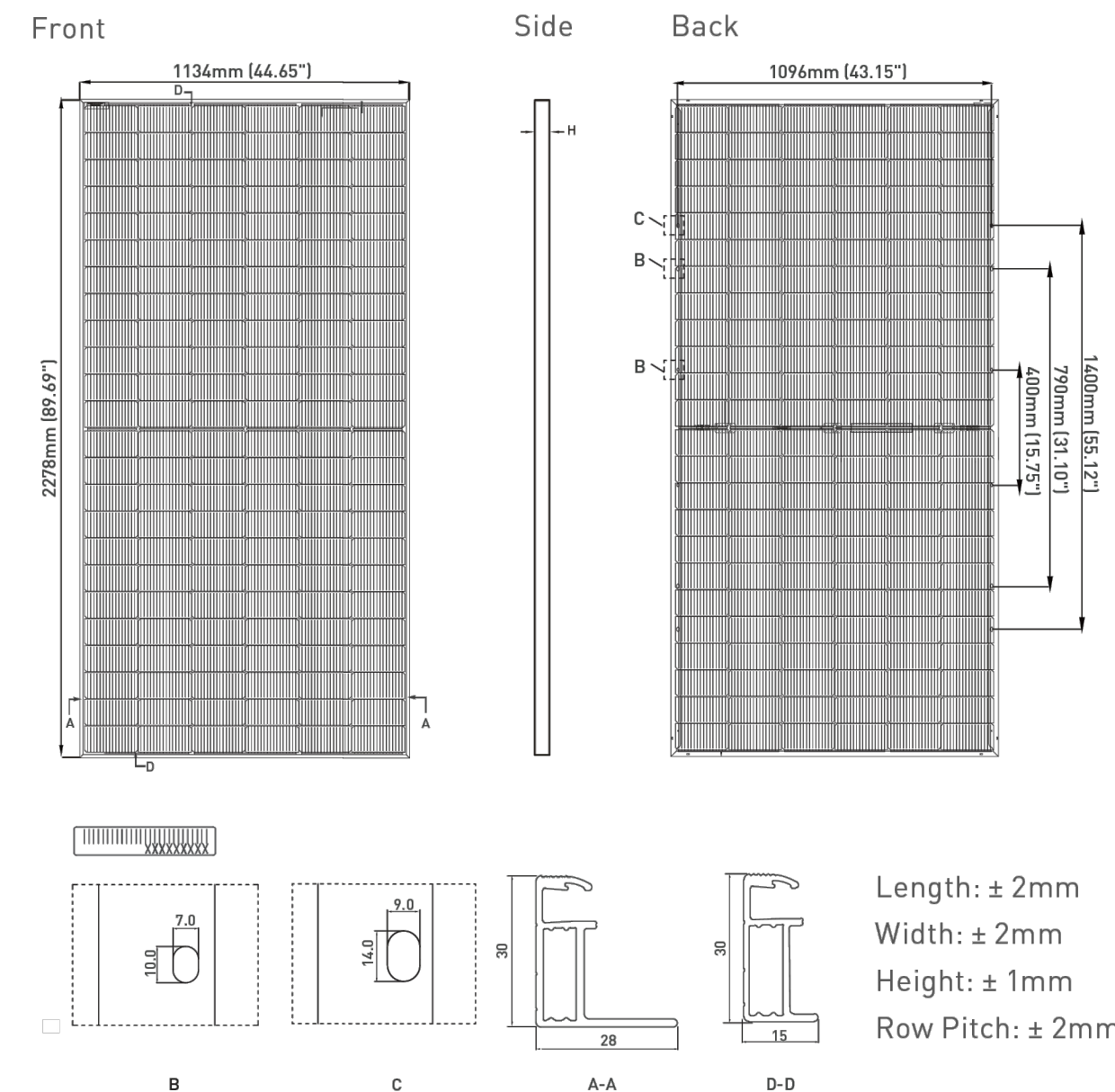
- Industrial Grade Construction**
Fire Type 29 with optimized dual-glass construction and thick frame for highest mechanical load resistance.
- Shade Tolerant**
Twin array design allows continued performance even with shading by trees or debris.
- Protected Against All Environments**
Certified to withstand humidity, heat, rain, marine environments, wind, hailstorms, and packed snow.
- Warranty**
12-year product and 30-year linear power warranty.

- ISO9001:2015 Quality Standards
- ISO14001:2015 Environmental Standards
- IEC61215, IEC61730 certified products
- ISO45001:2018 Occupational Health & Safety Standards
- UL61730 certified products

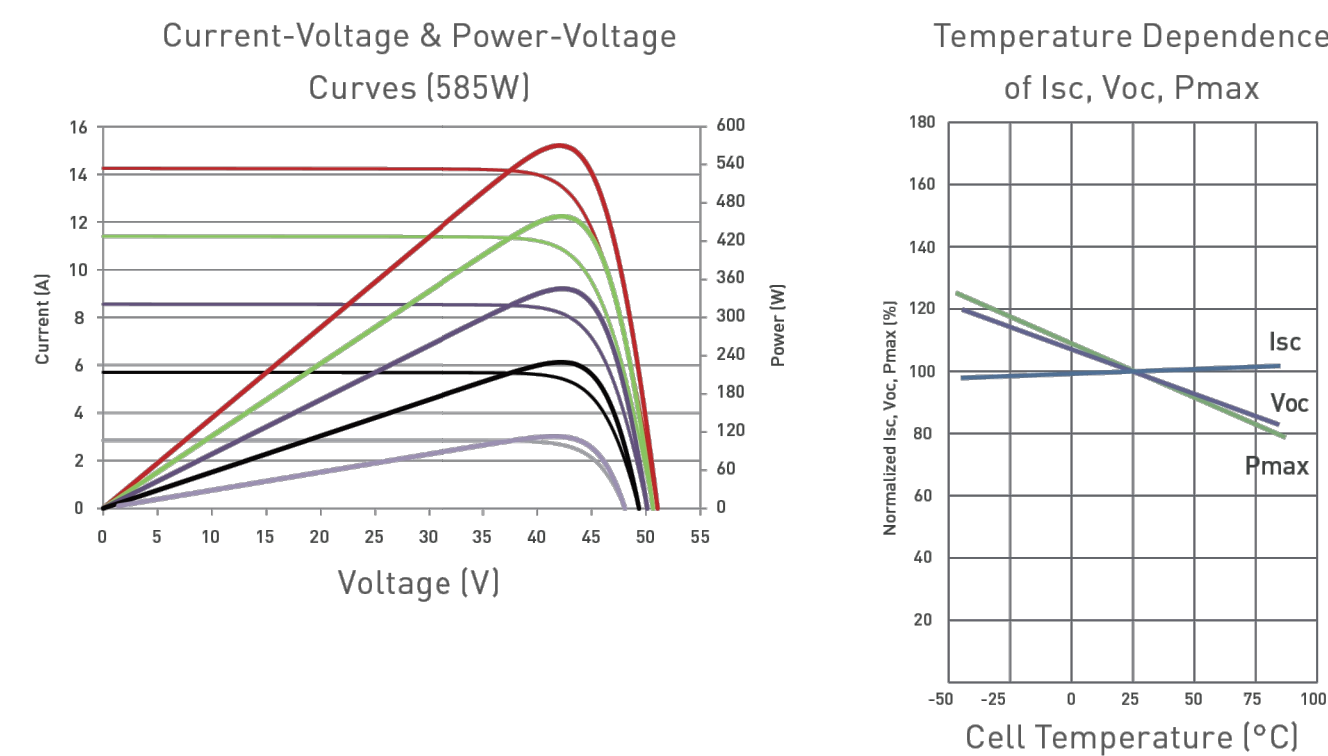


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ENGINEERING DRAWINGS



ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



ELECTRICAL CHARACTERISTICS

Module Type	JKM570N-72HL4-BDV		JKM575N-72HL4-BDV		JKM580N-72HL4-BDV		JKM585N-72HL4-BDV		JKM590N-72HL4-BDV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	570Wp	430Wp	575Wp	433Wp	580Wp	437Wp	585Wp	441Wp	590Wp	445Wp
Maximum Power Voltage (Vmp)	43.58V	40.56V	43.73V	40.73V	43.88V	40.89V	44.02V	41.05V	44.17V	41.21V
Maximum Power Current (Imp)	13.08A	10.59A	13.15A	10.64A	13.22A	10.69A	13.29A	10.74A	13.36A	10.79A
Open-circuit Voltage (Voc)	52.10V	39.60V	52.30V	39.75V	52.50V	39.90V	52.70V	40.05V	52.90V	40.20V
Short-circuit Current (Isc)	13.83A	11.16A	13.89A	11.21A	13.95A	11.26A	14.01A	11.31A	14.07A	11.36A
Module Efficiency STC (%)	22.07%		22.26%		22.45%		22.65%		22.84%	

*STC: ☀ Irradiance 1000W/m² 🌡 Cell Temperature 25°C
 NOCT: ☀ Irradiance 800W/m² 🌡 Ambient Temperature 20°C

*Power measurement tolerance: ±3%

The company reserves the final right for explanation on any of the information presented hereby. JKM570-590N-72HL4-BDV-F30-F2-US

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MECHANICAL CHARACTERISTICS

No. of Half Cells	144 (2 x 72)
Dimensions	2278 x 1134 x 30mm (89.69 x 44.65 x 1.18in)
Weight	31kg (68.34lbs)
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated
Output Cables	12 AWG, 1400mm (55.12in)
Fire Type	Type 29
Pressure Rating	5400Pa (Snow) & 2400Pa (Wind)
Hailstone Test	25mm Hailstone at 23 m/s

TEMPERATURE CHARACTERISTICS

Temperature Coefficients of Pmax	-0.29%/°C
Temperature Coefficients of Voc	-0.25%/°C
Temperature Coefficients of Isc	0.045%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C
Bifacial Factor	80±5%

MAXIMUM RATINGS

Operating Temperature (°C)	-40°C~+85°C
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	30A

PACKAGING CONFIGURATION

(Two pallets = One stack)
 36pcs/pallet, 72pcs/stack, 576pcs/40 HQ Container

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

	598Wp	604Wp	609Wp	614Wp	620Wp
5% Maximum Power (Pmax)	598Wp	604Wp	609Wp	614Wp	620Wp
Module Efficiency (%)	23.17%	23.37%	23.57%	23.78%	23.98%
15% Maximum Power (Pmax)	656Wp	661Wp	667Wp	672Wp	679Wp
Module Efficiency (%)	25.38%	25.60%	25.82%	26.05%	26.27%
25% Maximum Power (Pmax)	713Wp	719Wp	725Wp	731Wp	738Wp
Module Efficiency (%)	27.59%	27.83%	28.06%	28.31%	28.55%

WARRANTY

12-year product and 30-year linear power warranty
 1st year degradation not to exceed 1%, each subsequent year not to exceed 0.4%, minimum power at year 30 is 87.4% or greater.



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UTILITY CUSTOMER OF RECORD
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TILT	+/- 52°
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MODULE COUNT	8,700
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INVERTER POWER (kW)	275kW
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MONITORING	ALSO ENERGY
PROJECT AREA	~23.04 ACRE
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REVISIONS

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2				

DRAWN BY :
 TONY BRIENZA

PROJECT NAME & JOB #:
 CONNEXUS LANDFILL

SHEET DESCRIPTION :
 MODULE DATA SHEET

SHEET SIZE:
 36X24

SPACE FOR PE STAMP :

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SHEET :
 PV-5.0



Datasheet

250/275kW V2, 1500Vdc String Inverters for North America



CPS SCH275KTL-DO/US-800

The 250/275 kW high power CPS three-phase string inverters are designed for ground-mount applications. The units are high performance, advanced, and reliable inverters designed specifically for the North American environment and grid. High efficiencies, wide operating voltages, broad temperature ranges, and NEMA Type 4X enclosure enable this inverter platform to operate at high performance across many applications. The SCH275KTL inverters include a selectable active power of either 250 kW or 275 kW (factory default) with 12 MPPTs and are available with either 36 fused PV string inputs or 24 unfused PV string inputs. The CPS FlexOM solution enables communication, controls and remote product upgrades.

Key Features

- Anti-PID function
- Reactive Power at Night function
- CPS FlexOM Gateway enables remote firmware upgrades
- Integrated DC disconnect switch
- Protection functions for enhanced reliability and safety
- Selectable max AC active power of 250 kW or 275 kW
- UL 1741-SA certified to CA Rule 21, including SA14-SA18
- 12 MPPTs with 36 fused inputs or 24 unfused inputs
- Copper and Aluminum compatible AC connections
- NEMA Type 4X outdoor rated, tough tested enclosure
- Full power capacity up to 42°C
- Standard 5-year warranty with extensions to 20 years
- Supported comm protocols (Modbus RTU, TCP/IP, PLC, CAN)
- UL 1741-SB and IEEE 1547-2018 certified



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Chint Power Systems America
1380 Presidential Drive, Suite 100, Richardson, TX 75081
Tel: 855-584-7168 Mail: AmericaSales@chintpower.com Web: www.chintpowersystems.com



Technical Data

Model Name	CPS SCH275KTL-DO/US-800-36 V2	CPS SCH275KTL-DO/US-800-24 V2
DC Input		
Max. DC input voltage range	1500 V	
Operating DC input voltage range	500-1450 Vdc	
Start-up DC input voltage / power	550 Vdc / 500 W	
MPPT voltage range for Pnom @ PF>0.99 ¹	900-1300 Vdc	
Number of MPPT trackers	12	
Max. PV input current (clipping point)	30 A per MPPT	
Production Limits	36.5 kW/MPPT or 275 kW total output	
Max. PV short-circuit current	600 A, 50 A per MPPT	
Number of DC inputs	36 fused inputs, 3 per MPPT	24 non-fused inputs
DC disconnection type	Load-rated DC switches	
DC surge protection	Type II	
AC Output		
Max AC output power (selectable ²) @ PF>0.99	250 kW / 275 kW	
Max. AC apparent power	275 kVA	
Rated output voltage	800 Vac	
Output voltage range ³	704-880 Vac	
Grid connection type	3-phase / PE	
Max. AC output current @ 800 Vac	198.5 A	
Rated output frequency	60 Hz	
Output frequency range ³	57-63 Hz	
Power factor	>0.99 (±0.8 adjustable)	
Current TRD @ rated load	< 3%	
Max. OCPD rating	300 A	
AC surge protection	Type II	
System and Performance		
Max. efficiency	99.0%	
CEC efficiency	98.5%	
Standby / night consumption	5 W	
Environment		
Enclosure protection degree	NEMA 4X	
Cooling method	Variable speed cooling fans	
Operating temperature range	-22°F to 140°F / -30°C to 60°C (derate from 107°F / 42°C)	
Non-operating temperature range	-40°F to 140°F (-40°C to 60°C)	
Operating humidity	0-100%	
Operating altitude	8202 ft / 2500 m (no derating)	
Audible noise	< 80 dBA @ 1 m and 77°F (25°C)	
Display and Communication		
User interface and display	LED indicators, Wi-Fi and app	
Inverter monitoring	Modbus RS485 / PLC ⁴ / CAN	
Site-level monitoring	CPS FlexOM (1 per 32 inverters)	
Modbus data mapping	SunSpec / CPS	
Remote diagnostics / firmware upgrade functions	Standard / (with FlexOM Gateway)	
Mechanical		
Dimensions (H x W x D)	27.2 x 41.3 x 15.7 (690 x 1050 x 400 mm)	
Weight	Inverter: 262 lbs (119 kg)	
Mounting / installation angle	Vertical installation	
AC termination	Stud type terminal (wire range: 4/0 AWG - 750 kcmil AL/CU, lugs not supplied)	
DC termination	36 fused input: screw clamp fuse holder (wire range #14-#8 AWG CU) 24 non-fused input: screw clamp terminal (wire range #14-#8 and #6-#4 AWG CU) ⁵	
Fused string inputs (3 per MPPT) ⁶	25 A fuses provided (values up to 30 A acceptable) - 30A FUSES INCLUDED	
Safety		
Certifications and standards	UL1741-SA/SB Ed.3, CSA-C22.2 NO.107.1-16, IEEE1547a-2014, IEEE 1547-2018; FCC PART 15	
Selectable grid standard	IEEE 1547a-2014, IEEE 1547-2018, CA Rule 21, ISO-NE	
Smart-grid features	Volt-RideThru, Freq-RideThru, Ramp-Rate, Specified-PF, Volt-VAR, Freq-Watt, Vol-Watt	
Protection Functions		
Reactive Power at Night	Yes	
Anti-PID function	Yes	
Insulation resistance monitoring	Yes	
Onboard fault oscillography	Yes	
PV MPPT current monitoring	Yes	
Residual current monitoring	Yes	
Output short-circuit protection	Yes	
Output overvoltage protection	Yes	
Warranty		
Standard	5 years	
Extended terms	10, 15, and 20 years	

1) See user manual for information regarding MPPT voltage range when operating at non-unity PF.
2) Inverter is factory set to 275 kW by default. Contact CPS to enable the 250 kW setting.
3) The output voltage range and output frequency range may differ according to the specific grid standard.

4) CPS AC-PLC Kit required for AC PLC communication.
5) One threaded hole per MPPT for connecting #6-#4 AWG CU.
6) Fused string inputs only applicable to the SCH275KTL 36-input model.



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MIN./MAX. TEMP	-26°C / 32°C

OTHER NOTES

NO POSITION, DISTANCE, OR CLEARANCE ISSUES WITH OVERHEAD ELECTRIC SERVICE LINES OR OTHER UTILITIES IN RELATION TO THE PV PANELS

24/7 UNESCORTED KEYLESS ACCESS FOR THE UTILITY METERS AND UTILITY AC DISCONNECT

REVISIONS				
#	DESCRIPTION	BY	CHK'D	DATE
0	IC SET	TB	MH	12/23/2024
1				
2				

DRAWN BY :
TONY BRIENZA

PROJECT NAME & JOB #:
CONNEXUS LANDFILL

SHEET DESCRIPTION :
INVERTER DATA SHEET

SHEET SIZE:
36X24

SPACE FOR PE STAMP :

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Signature: *Michael Herman*
Name: Michael Herman
Date: 01/24/2025 License Number: 57145

SHEET :
PV-5.1



Datasheet

800 Vac Breaker Box Solution for CPS 250/275 kW Inverters



The CPS 800 Vac Breaker Box is designed for CPS 250/275kW three-phase string inverters to optimize system protection, installation, and wire management. The Breaker Box combines the output of up to (3) CPS 250/275kW inverters allowing a cost-effective solution for simplifying system designs and providing individual protection for each inverter. This solution enables savings on labor and material costs by reducing the amount of wires needed to connect CPS string inverters to the grid.

Solutions Supplier

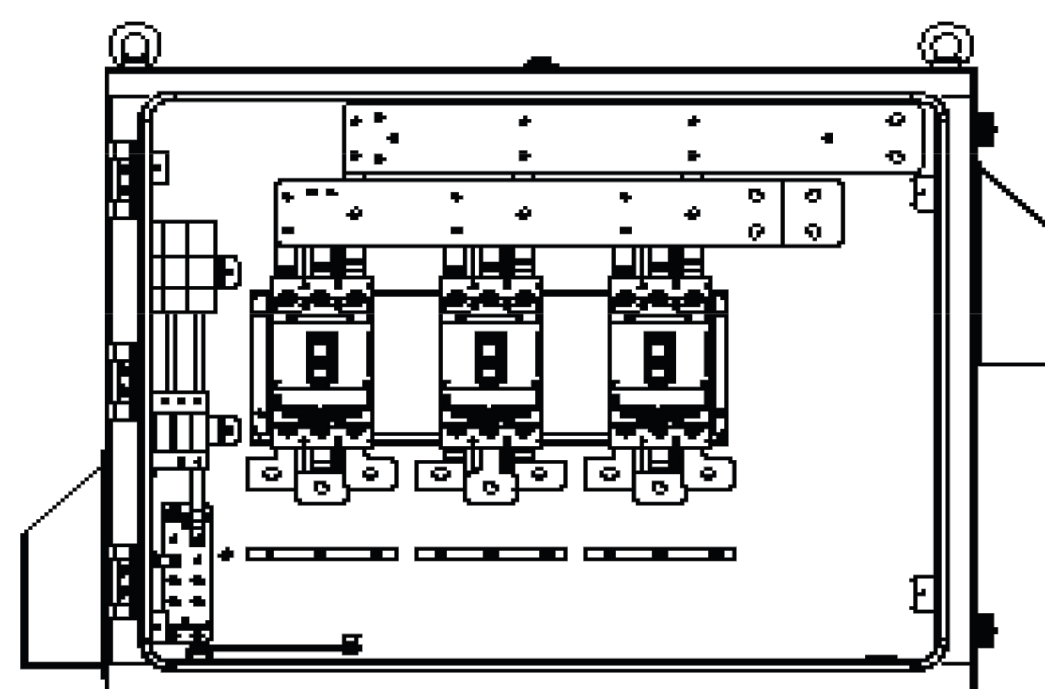
CPS can supply inverter and BOS equipment for 1500V applications, which enables advantages for project logistics, shipment, and warranty management.

Decreased Wiring Costs

Combining CPS inverters with the CPS 800 Vac Breaker Box reduces the amount of wires needed to connect the PV system to the grid.

Optimized Design with Enhanced Protection

The 800 Vac Breaker Box provides three 800V 250A 100% rated circuit breakers for individual protection of the CPS 250/275kW PV inverter.



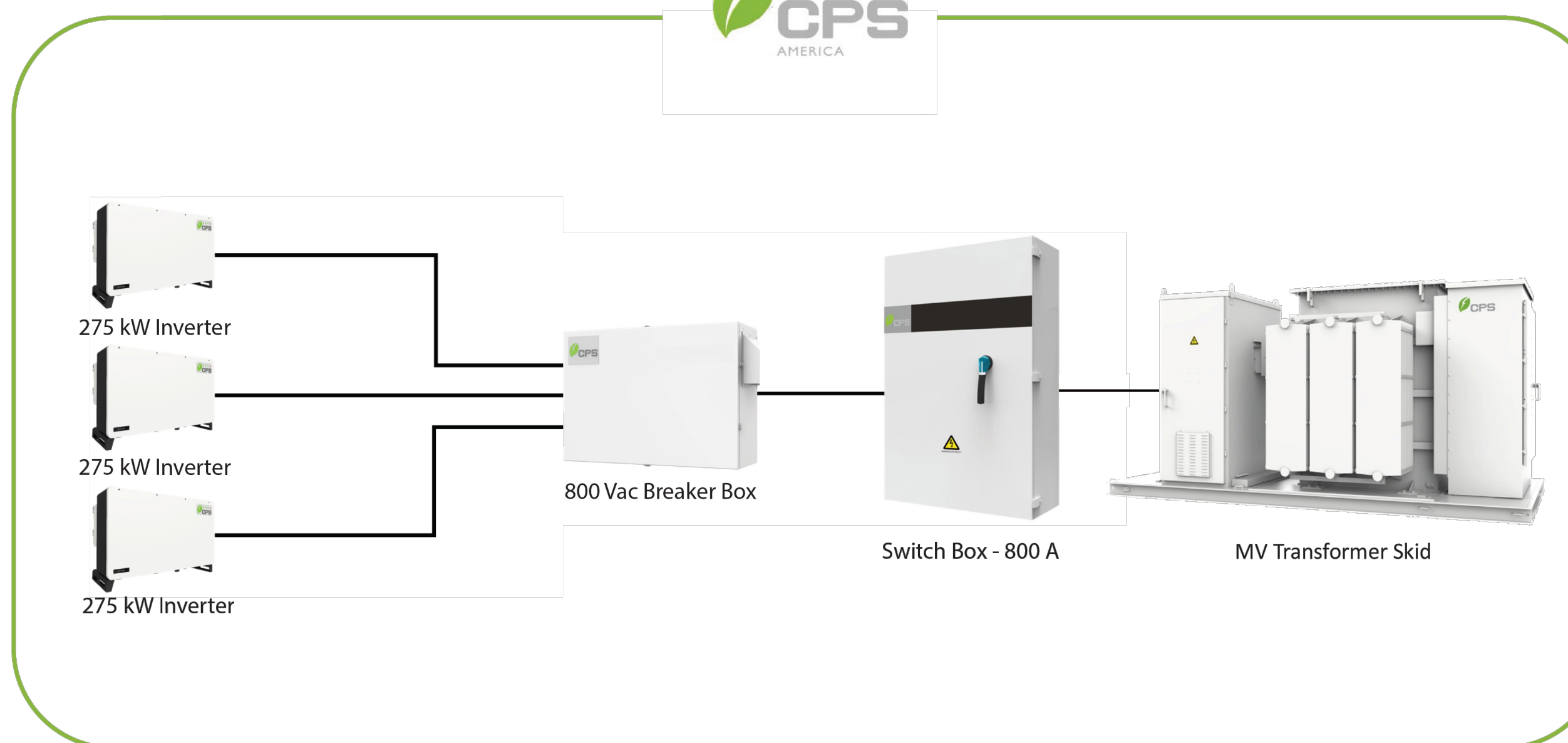
Internal View of 800 Vac Breaker Box



Technical Data

Product Model	CPS DBA03-800V/US
Input Parameter	
Number of Input Circuits	3
OCPD Type	3 thermal magnetic MCCBs
OCPD Rating	250 A (100% Rated)
Input Terminal Temperature Rating	203°F / 95°C
Compatible Inverter	CPS SCH275KTL-DO/US-800
Rated Voltage	800 Vac
Input Conductor Size	4/0 AWG-750 kcmil CU/AL
Output Parameter	
Output Conductor Size	250-800 kcmil CU/AL (up to 2 sets)
Output Busbar Rated Current	1040 A
Conduit Knockout Size	Removable bottom plate
Interrupting Capacity	50 kA
Mechanical	
Dimensions (H x W x D)	42.25 x 31.8 x 14.9 in (1073 x 809.5 x 376 mm)
Weight	92.6 lbs (42 kg)
Padlockable Enclosure	Yes
Grounding Busbar	Yes
Vent	Yes
Shade Cover	Yes
Environment	
Enclosure Protection Grade	NEMA Type 3R
Operating Temperature Range ¹	-22°F to 140°F / -30°C to 60°C
Operating Humidity	0% to 95%, non-condensing
Operating Altitude	6561.7 ft / 2000 m
Certifications and Warranty	
Certifications and Standards	UL 1741, CSA C22.2 NO.107.1-16
Standard Warranty	2 years

¹) See user manual for further installation requirements.



CEDAR CREEK ENERGY
3155 104TH LN NE
BLAINE, MN, 55449
PHONE # 763-450-9763

PROJECT ADDRESS
6501 SUNWOOD DR. NW
RAMSEY, MN 55303

UTILITY CUSTOMER OF RECORD
CELf 2024 LLC

PROJECT DESCRIPTION

SYSTEM SIZE (DC)	5.046 MW
SYSTEM SIZE (AC)	4.125 MW
DC/AC RATIO	1.223
AZIMUTH	90/270°
TILT	+/- 52°
MODULE TYPE	JINKO JKM580N-72HL4-BDV
MODULE COUNT	8,700
INVERTER TYPE	CPS SCH275KTL-DO/US 800 275 kW
INVERTER POWER (kW)	275kW
RACKING	SINGLE AXIS TRACKER
MONITORING	ALSO ENERGY
PROJECT AREA	~23.04 ACRE
MIN./MAX. TEMP	-26°C / 32°C

OTHER NOTES

NO POSITION, DISTANCE, OR CLEARANCE ISSUES WITH OVERHEAD ELECTRIC SERVICE LINES OR OTHER UTILITIES IN RELATION TO THE PV PANELS

24/7 UNESCORTED KEYLESS ACCESS FOR THE UTILITY METERS AND UTILITY AC DISCONNECT

REVISIONS

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PROJECT NAME & JOB #:
CONNEXUS LANDFILL

SHEET DESCRIPTION :
BREAKER BOX DATA SHEET

SHEET SIZE:
36X24

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Name: Michael Herman
Date: 01/24/2025 License Number: 57145

SHEET :

PV-5.2



Datasheet

800 Vac Switch Box (800 A) for CPS 250/275 Inverters



The CPS 800 Vac Switch Box (800 A) is designed for CPS 250/275 kW three-phase string inverters to optimize system design, installation, and wire management. The units are designed to be connected to the output of the CPS 800 Vac breaker box used with up to (3) CPS 250/275 kW inverters allowing a cost-effective solution for simplifying system designs and minimizing AC wire losses. This solution enables savings on labor and material costs by reducing the amount of wires needed to connect CPS string inverters to the grid.

Solutions Supplier

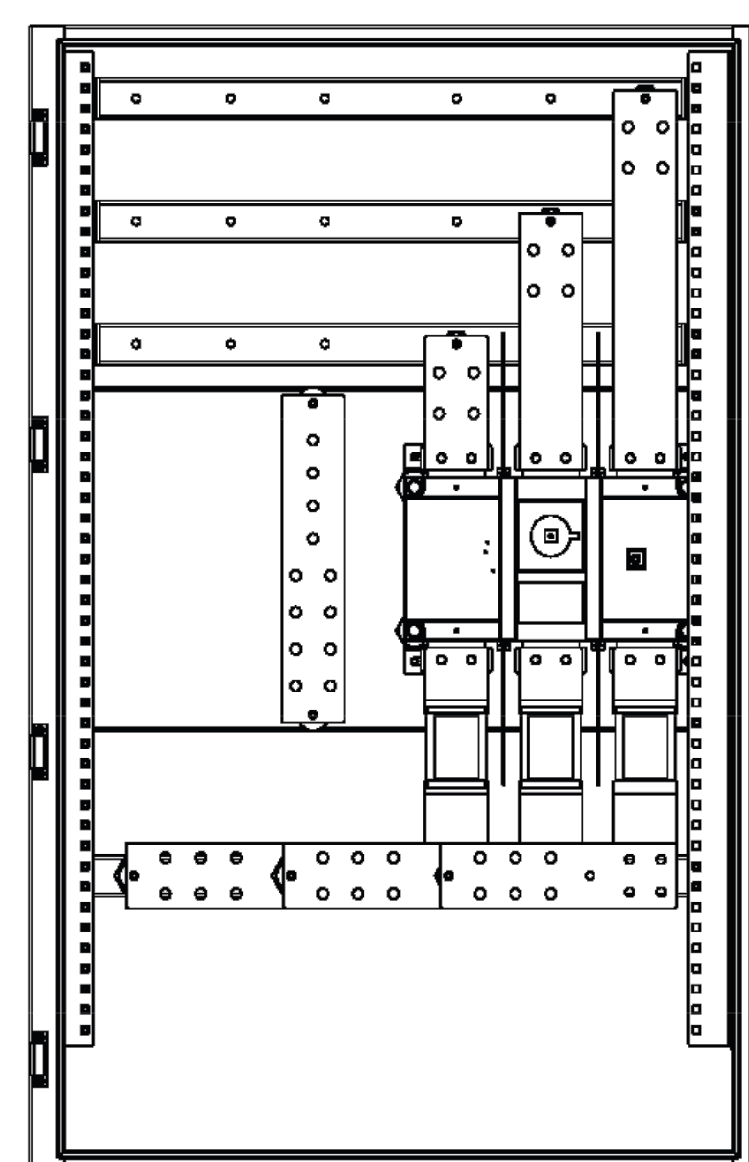
CPS can supply inverter and BOS equipment for 1500 V applications, which enables advantages for project logistics, shipment, and warranty management.

800 V BOS Solution

The CPS Switch Box provides a cost effective 800 Vac balance of system solution and disconnecting means.

Optimized Design

The Switch Box V1 is designed specifically for use with CPS 250/275 kW inverters.



Internal View of Switch Box (800 A)



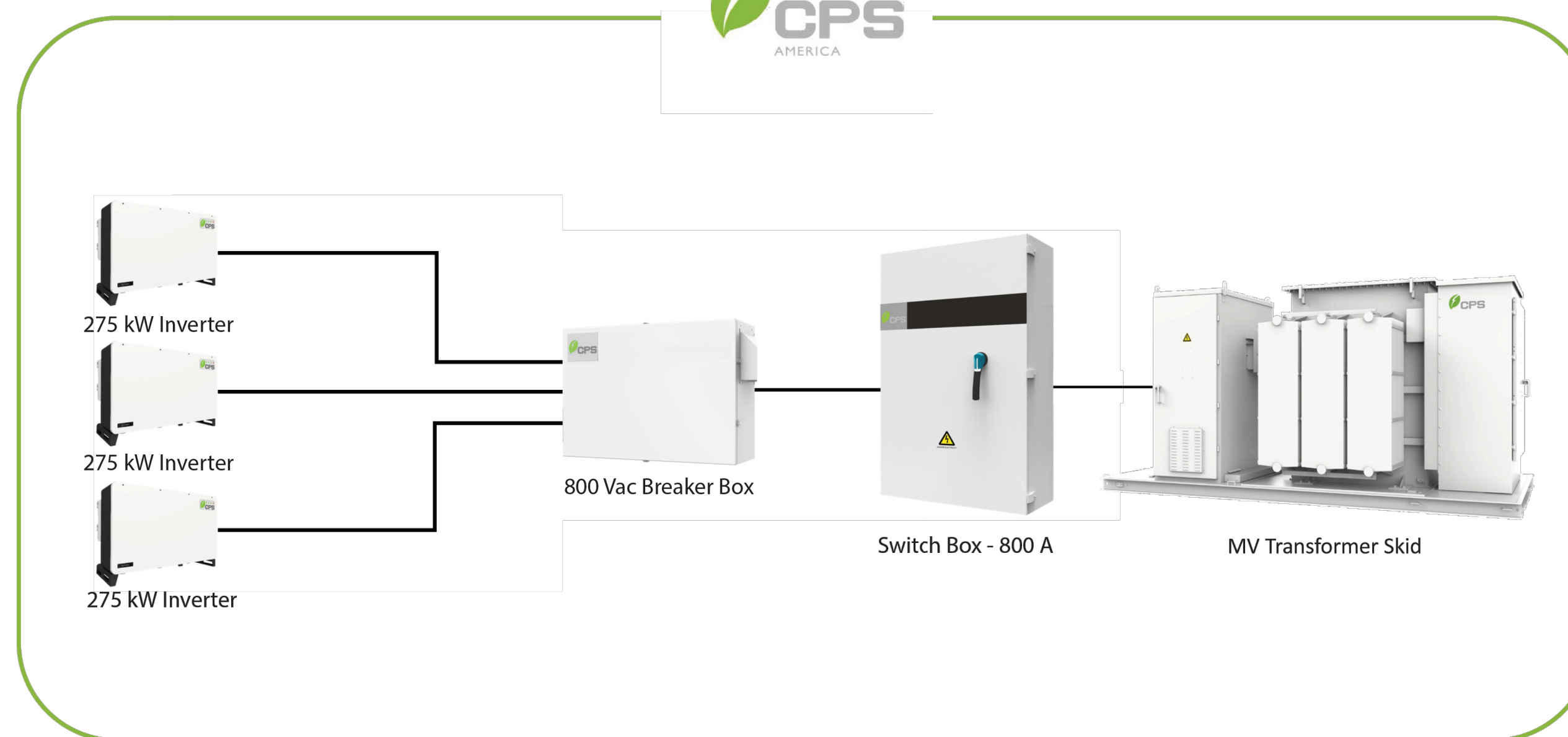
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Chint Power Systems America
1380 Presidential Drive, Suite 100, Richardson, TX 75081
Tel: 855-584-7168 Mail: AmericaSales@chintpower.com Web: www.chintpowersystems.com



Technical Data

Model Name	CPS DPA03-800V/US (800 A)
Input Parameter	
Number of Input Circuits	1
OCPD Type	Fuse
Disconnect	Yes
Compatible Inverter	CPS SCH275KTL-DO/US-800
Rated Voltage	800 Vac
Rated Input Current	600 A
Output Busbar Rated Current	1040 A
Input Conductor Size	250-800 kcmil CU/AL (up to 2 sets)
Input Conduit Knockout Size	Removable bottom plate
Output Parameter	
Rated Output Current	600 A
Output Busbar Rated Current	1040 A
Output Conductor Size	250-800 kcmil CU/AL (up to 4 sets)
Output Conduit Knockout Size	Removable bottom plate
Interrupting Capacity	65 kA
Disconnect Rating	800 A
Output Fuse Rating	800 A
Mechanical	
Dimensions (H × W × D)	55 × 36.2 × 14.75 in (1400 × 920 × 375 mm)
Weight	264 lbs / 120 kg
Padlockable Enclosure	Yes
Grounding Busbar	Yes
Breather Vent	Yes
Environment	
Enclosure Protection Degree	NEMA Type 3R
Operating Temperature Range	-22°F to 140°F / -30°C to 60°C (derating at 104°F / 40°C)
Operating Humidity	0% to 95%, non-condensing
Operating Altitude	8202 ft / 2500 m (no derating)
Safety	
Certifications and Standards	UL 1741, CSA C22.2 NO.107.1-16
Warranty	
Standard	2 years



CEDAR CREEK ENERGY
3155 104TH LN NE
BLAINE, MN, 55449
PHONE # 763-450-9763

PROJECT ADDRESS
6501 SUNWOOD DR. NW
RAMSEY, MN 55303

UTILITY CUSTOMER OF RECORD
CELf 2024 LLC

PROJECT DESCRIPTION

SYSTEM SIZE (DC)	5.046 MW
SYSTEM SIZE (AC)	4.125 MW
DC/AC RATIO	1.223
AZIMUTH	90/270°
TILT	+/- 52°
MODULE TYPE	JINKO JKM580N-72HL4-BDV
MODULE COUNT	8,700
INVERTER TYPE	CPS SCH275KTL-DO/US 800 275 kW
INVERTER POWER (kW)	275kW
RACKING	SINGLE AXIS TRACKER
MONITORING	ALSO ENERGY
PROJECT AREA	~23.04 ACRE
MIN./MAX. TEMP	-26°C / 32°C

OTHER NOTES

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24/7 UNESCORTED KEYLESS ACCESS FOR THE UTILITY METERS AND UTILITY AC DISCONNECT

REVISIONS

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TONY BRIENZA

PROJECT NAME & JOB #:
CONNEXUS LANDFILL

SHEET DESCRIPTION :
SWITCH BOX DATA SHEET

SHEET SIZE:
36X24

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Name: Michael Herman
Date: 01/24/2025 License Number: 57145

SHEET :

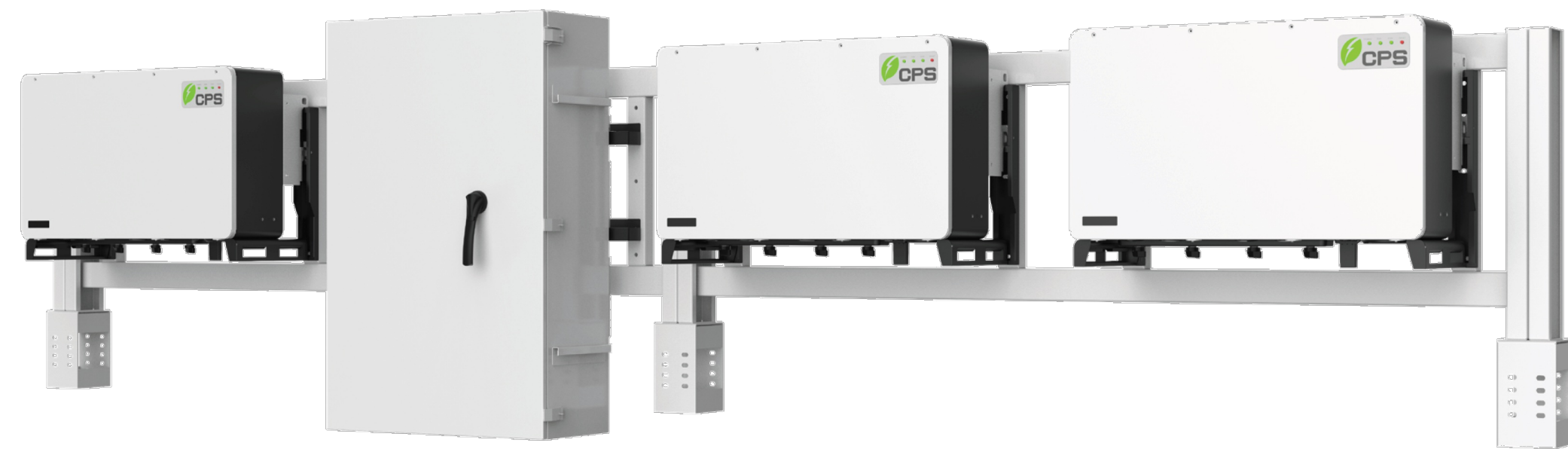
PV-5.3



Datasheet

In-Line Cluster Mounting Bracket

Designed for CPS 250/275 kW Inverters & 800 Vac AC Combiners



CPS In-Line Cluster Mounting Bracket

The CPS In-Line Cluster Mounting Bracket is designed to provide a simple, low-cost mounting solution for CPS 250/275 kW inverters and CPS 800 Vac 3:1 AC Combiners. (3) CPS 250/275 kW and (1) 800 Vac AC Combiner can be mounted onto piles to easily install the equipment for ground mount PV applications. This solution enables savings on labor and material costs for system designs and installation.

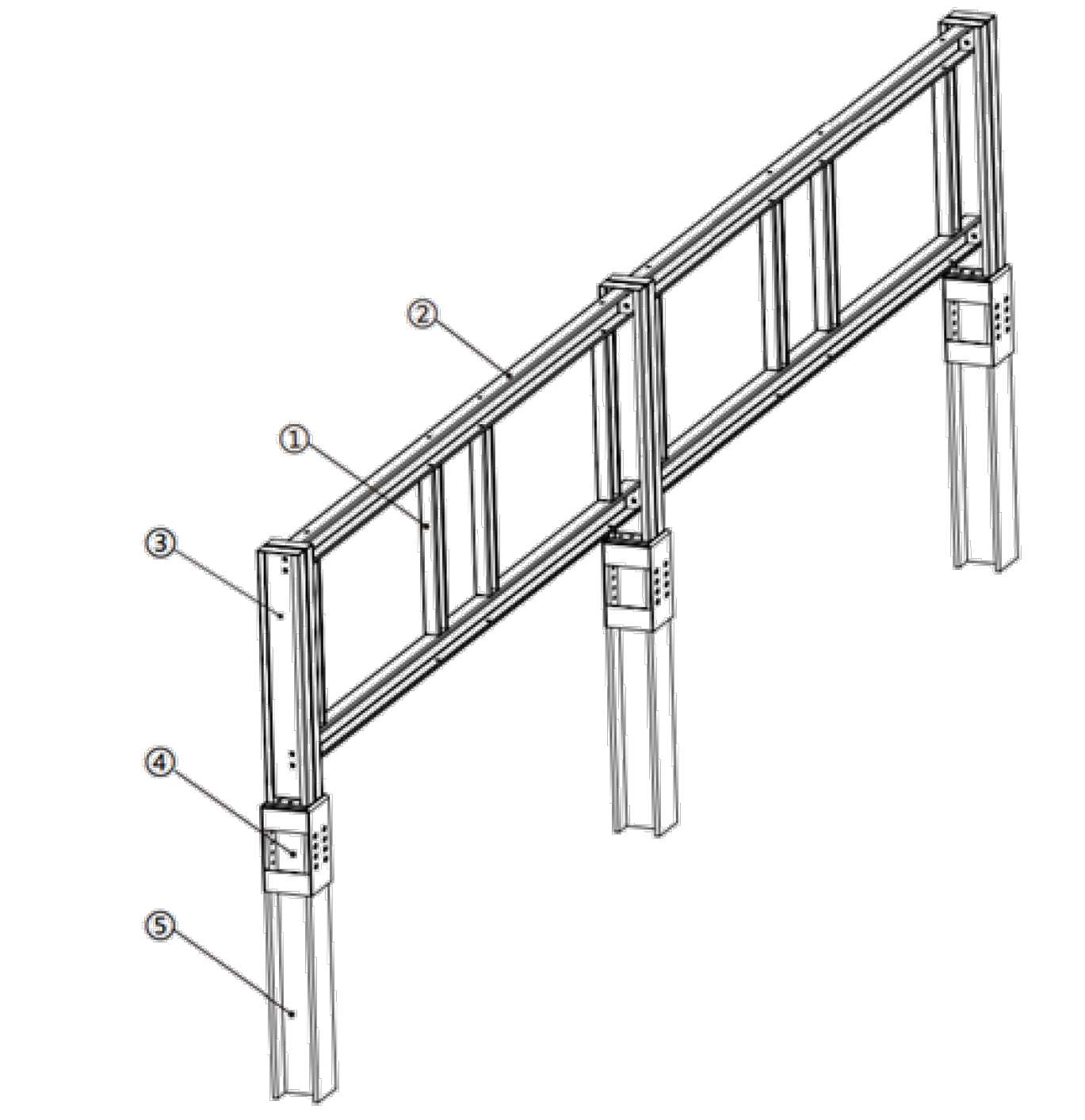
Key Features

- Easily mount (3) 250/275 kW inverters and (1) 800 Vac AC Combiner
- Simplifies Inverter and Combiner installation
- Cost-efficient mounting solution
- Includes mounting bracket for CPS 800 Vac AC Combiner
- In-line design to allow efficient working space



Technical Data

Model Name	CPS In-Line Cluster Mounting Bracket
Mechanical	
Material	DC51D-ZM180 steel
Dimensions (H x W x D)	46.3 x 231.4 x 6.8 in (1,175 x 5,877 x 172 mm)
Dimensions of total Cluster Mounting Bracket including (3) 250/275 kW Inverters + (1) 800 Vac AC Combiner	55.1 x 231.4 x 23.3 in (1,400 x 5,877 x 643 mm)
Total weight of Cluster Rack	264 lbs / 120 kg
Compatible inverters	CPS SCH275KTL-DO/US-800
Compatible combiner	CPS DPA03-800V/US
Installation method	Mounted to 3 piles (piles not included)
Warranty	
Standard	2 years



Cluster Components

Item No.	Component Name	Quantity
1	Equipment installation vertical beam	8
2	Beam	4
3	Vertical beam	6
4	Pile connector	3
5	Pile	3 (user supplied)



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PHONE # 763-450-9763

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6501 SUNWOOD DR. NW
RAMSEY, MN 55303

UTILITY CUSTOMER OF RECORD
CELf 2024 LLC

PROJECT DESCRIPTION	
SYSTEM SIZE (DC)	5.046 MW
SYSTEM SIZE (AC)	4.125 MW
DC/AC RATIO	1.223
AZIMUTH	90/270°
TILT	+/- 52°
MODULE TYPE	JINKO JKM580N-72HL4-BDV
MODULE COUNT	8,700
INVERTER TYPE	CPS SCH275KTL-DO/US 800 275 kW
INVERTER POWER (kW)	275kW
RACKING	SINGLE AXIS TRACKER
MONITORING	ALSO ENERGY
PROJECT AREA	~23.04 ACRE
MIN./MAX. TEMP	-26°C / 32°C

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TONY BRIENZA

PROJECT NAME & JOB #:
CONNEXUS LANDFILL

SHEET DESCRIPTION :
IN-LINE EQUIPMENT RACK DATA SHEET

SHEET SIZE:
36X24

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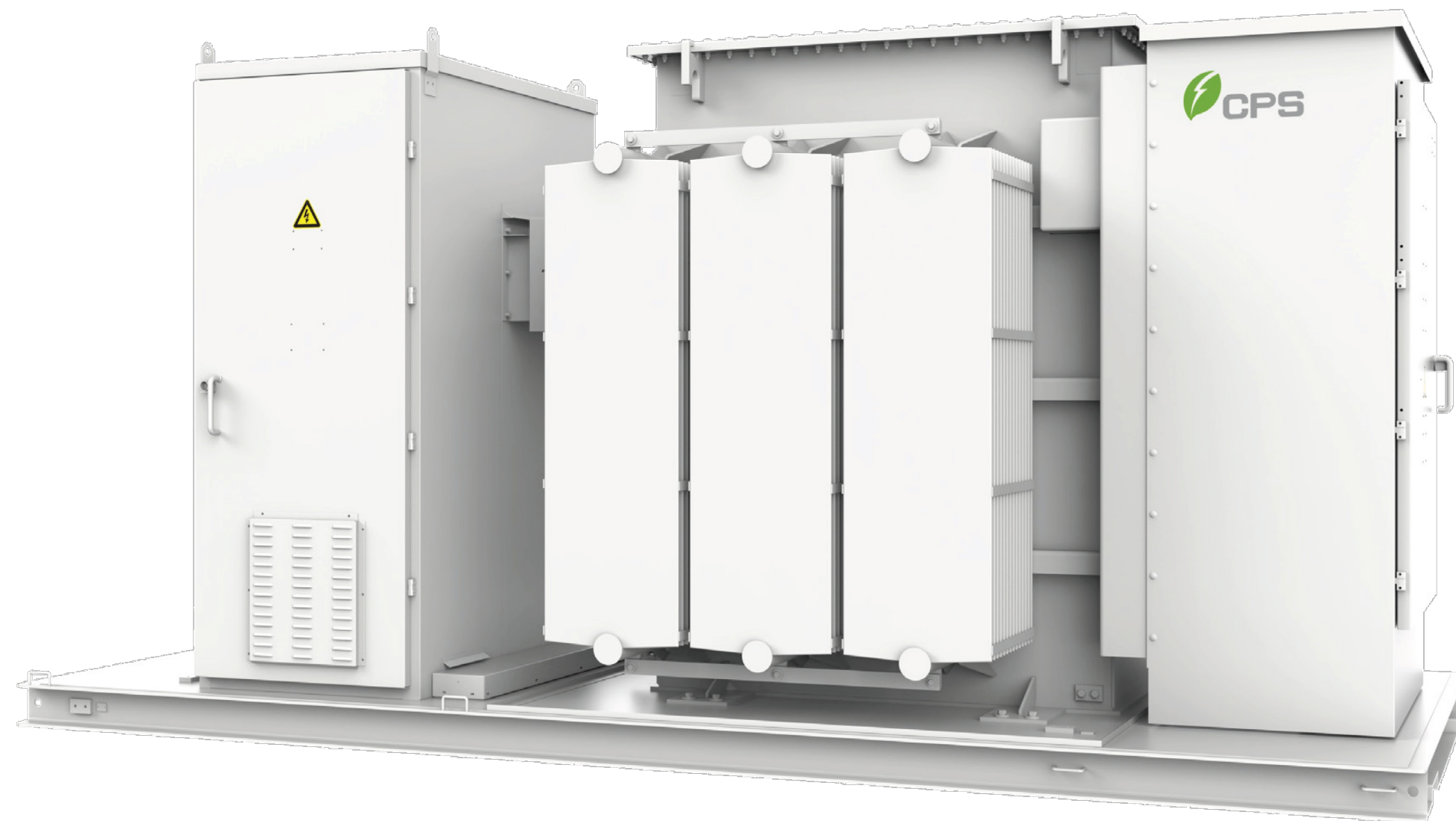
Signature: *Michael Herman*
Name: Michael Herman
Date: 01/24/2025 License Number: 57145

SHEET :
PV-5.4



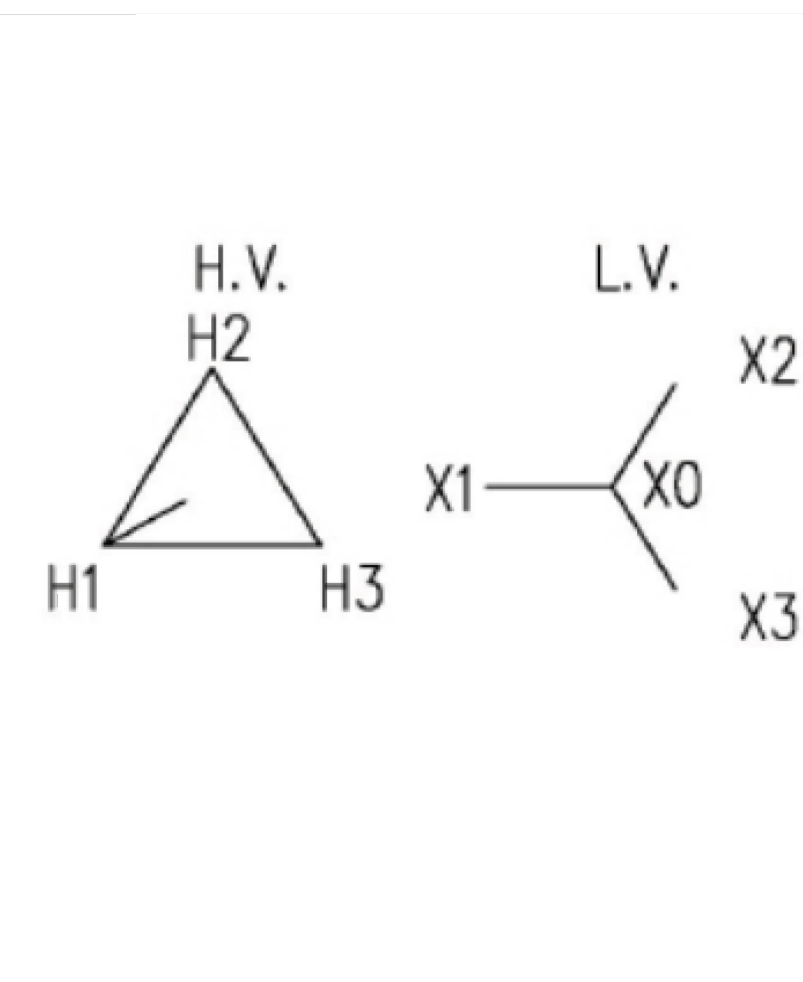
Datasheet

Medium Voltage Transformer Skid

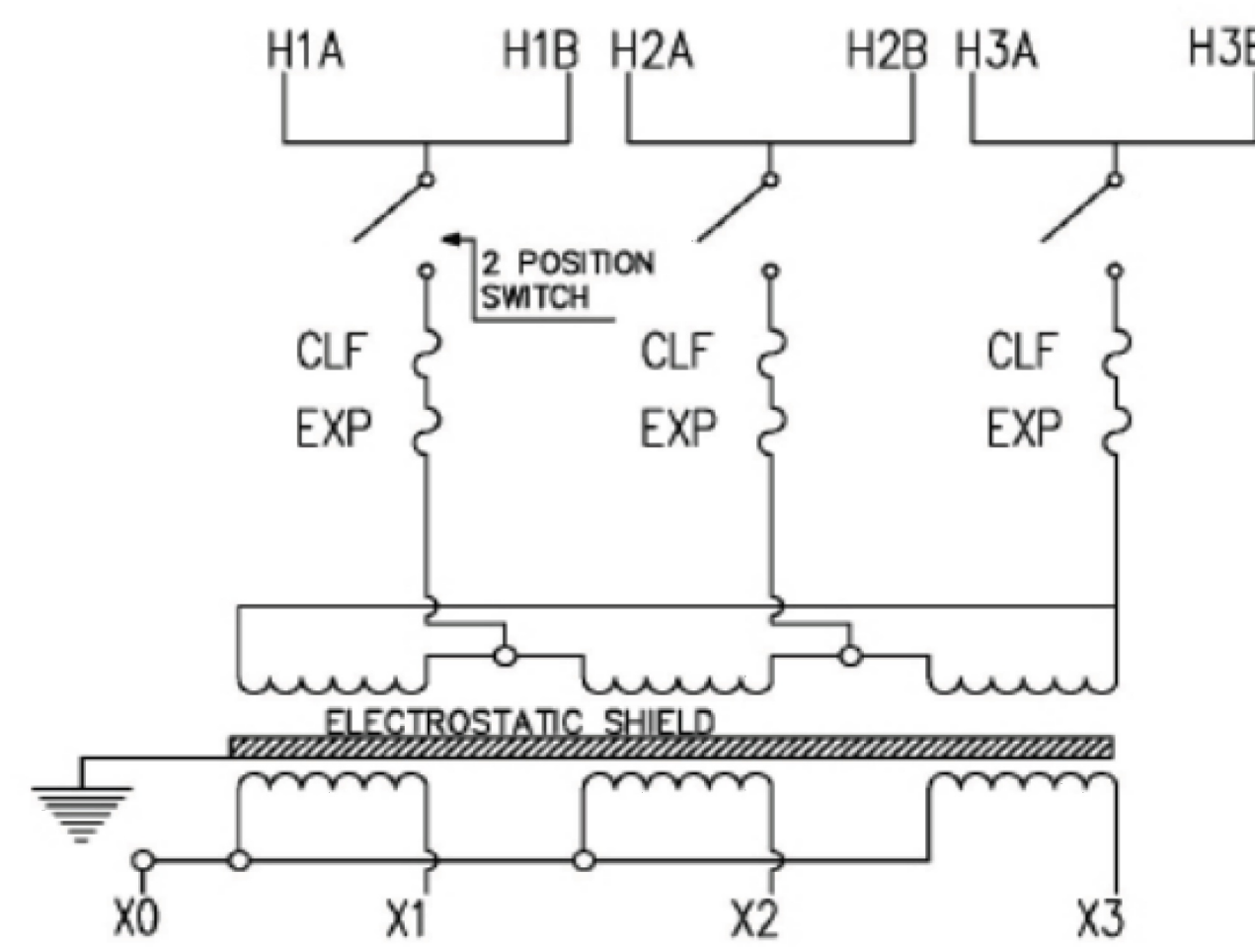


The CPS three-phase medium voltage transformer skid is the last step in the conversion that brings electrical power to the substation. The transformers are designed for superior reliability, efficiency, and environmental performance. A modular architecture paired with design options ensures cost efficiency and easy, minimal maintenance. The skid integrates a medium voltage transformer, low voltage cabinet, auxiliary transformer, and monitoring gauges. CPS offers various configurations with multiple capacities and interconnection voltages.

Phasor Diagram Example



Connection Diagram Example



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Chint Power Systems America
1380 Presidential Drive, Suite 100, Richardson, TX 75081
Tel: 855-584-7168 Mail: AmericaSales@chintpower.com Web: www.chintpowersystems.com



Technical Data

Product Name	Medium Voltage Transformer Skid				
Specifications					
Rated power (kVA)	4200 kVA, 3300 kVA, 2800 kVA				
Installation location	NEMA 3R				
Number of windings	2				
Operating ambient temperature range @ rated power	-22°F to 113°F (-30°C to 45°C)				
Average winding temperature rise	140°F (60°C)				
Cooling class	KNAN				
Frequency	60 Hz				
Electrostatic shielding	Electrostatic shield between HV and LV windings (2 windings)				
Insulating fluid	FR3 oil				
High voltage	34.5 kV	24.94 kV	13.8 kV	13.2 kV	12.47 kV
High voltage bushing style	6 - integral deadbreak bushing 600 A 150 kV BIL		6 - integral deadbreak bushing 600 A 95 kV BIL		
High voltage conductor material	Aluminum				
Taps	2-2.5% above and 2-2.5% below nominal voltage				
High voltage configuration	Loop-feed, dead front				
Load-break switching	600 A two position load break switch				
High voltage enclosure type	Bottom entry				
Overcurrent protection	Bayonet fuses in series with partial-range current-limiting fuses				
Expulsion forces	Bayonet fuses				
Low voltage	800 Vac				
LV bushing BIL	30 kV				
LV bushing connection	Up to (20) 800 kcmil aluminum or copper per phase				
LV conductor material	Aluminum				
Elevation	6561.68 ft (2000 m)				
Vector group	Dy1, Dy11, Yd1, Yd11, YNyn0				
Dimensions (W x H x D)	16.08 x 8.14 x 7.22 ft (4900 x 2481 x 2200 mm)				
Accessories					
Liquid level indicator	Included				
Liquid temperature indicator	Included				
Pressure vacuum gauge	Included				
Off load tap changer	Included				
Pressure relief valve	Included				
Oil filling tube	Included				
Drain valve with sampler	Included				
Nitrogen blanket	Included				
5 kVA single-phase auxiliary transformer (120 Vac)	Included				
40 kVA three-phase auxiliary transformer (480 Vac)	Optional / additional cost - INCLUDED				
Applicable Standards¹					
MV Transformer: IEEE C57.12.00, IEEE 57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN/CSA-C227.3/C227.4 LV Cabinet: UL891					

1) Specifications may change upon design and engineering finalization.



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BLAINE, MN, 55449
PHONE # 763-450-9763

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RAMSEY, MN 55303

UTILITY CUSTOMER OF RECORD
CELf 2024 LLC

PROJECT DESCRIPTION

SYSTEM SIZE (DC)	5.046 MW
SYSTEM SIZE (AC)	4.125 MW
DC/AC RATIO	1.223
AZIMUTH	90/270°
TILT	+/- 52°
MODULE TYPE	JINKO JKM580N-72HL4-BDV
MODULE COUNT	8,700
INVERTER TYPE	CPS SCH275KTL-DO/US 800 275 kW
INVERTER POWER (kW)	275kW
RACKING	SINGLE AXIS TRACKER
MONITORING	ALSO ENERGY
PROJECT AREA	~23.04 ACRE
MIN./MAX. TEMP	-26°C / 32°C

OTHER NOTES

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24/7 UNESCORTED KEYLESS ACCESS FOR THE UTILITY METERS AND UTILITY AC DISCONNECT

REVISIONS

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PROJECT NAME & JOB #:
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MV TRANSFORMER SKID DATA SHEET

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Name: Michael Herman
Date: 01/24/2025 License Number: 57145

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PV-5.5

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3155 104TH LN NE
BLAINE, MN, 55449
PHONE # 763-450-9763

PROJECT ADDRESS
6501 SUNWOOD DR. NW
RAMSEY, MN 55303

UTILITY CUSTOMER OF RECORD
CELf 2024 LLC

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DC/AC RATIO	1.223
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MODULE TYPE	JINKO JKM580N-72HL4-BDV
MODULE COUNT	8,700
INVERTER TYPE	CPS SCH275KTL-DO/US 800 275 kW
INVERTER POWER (kW)	275kW
RACKING	SINGLE AXIS TRACKER
MONITORING	ALSO ENERGY
PROJECT AREA	~23.04 ACRE
MIN./MAX. TEMP	-26°C / 32°C

ARRAY TECHNOLOGIES FOLLOW THE SUN. FOLLOW THE LEADER.



ARRAY TECHNOLOGIES FOLLOW THE SUN. FOLLOW THE LEADER.

COST VERSUS VALUE

We believe value is more than the cost of a tracking system. It's about building with forgiving tolerances and fewer parts so construction crews can work efficiently. It means protecting your investment with a failure-free wind management system. It also includes increasing power density. But most of all, value is measured in operational uptime, or reliability.

THE GLOBAL LEADER IN RELIABILITY

Array has spent decades designing and perfecting the most reliable tracker on the planet. Fewer moving parts, stronger components and intelligent design that protects your investment in the harshest weather are but a few of the innovative differences that keep your system running flawlessly all day and you resting easy at night.

ARRAY TECHNOLOGIES, INC.

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sales@arraytechinc.com
arraytechinc.com

30 GW YEARS OF OPERATION

167x FEWER COMPONENTS THAN COMPETITIVE TRACKERS

7% LOWER LCOE

DuraTrack® HZ v3

Three decades of field-tested design improvements have resulted in the DuraTrack® HZ v3 — the most durable, reliable tracking system under the sun. While our single-bolt module clamp and forgiving tolerances streamline installation, and our flexibly linked architecture maximizes power density, it's our innovative use of fewer components and a failure-free wind management system that makes Array Technologies the best choice for solar trackers. **Better. Stronger. Smarter.**

31% LOWER LIFETIME O&M

HIGHEST POWER DENSITY.
Higher density means more power and more profit. DuraTrack HZ v3 offers the unique ability to maximize the power density of each site, boasting 100 modules per row and higher density than our closest competition.

LEADING TERRAIN ADAPTABILITY.
Our flexibly linked architecture, with articulating driveline joints and forgiving tolerances, creates the most adaptable system on the market for following natural land contours while creating the greatest power generation potential from every site.

FEWER COMPONENTS. GREATER RELIABILITY.
Array was founded on a philosophy of engineered simplicity. Minimizing potential failure points (167 times fewer components than competitors), DuraTrack HZ v3 consistently delivers higher reliability and superior uptime.

FAILURE-FREE WIND DESIGN.
DuraTrack HZ v3 was designed and field tested to withstand some of the harshest conditions on the planet. It is the only tracker on the market that reliably handles wind events with a fully integrated, fully mechanical, passive wind-load mitigation system without the need for complex communication systems, batteries, or power.

ZERO SCHEDULED MAINTENANCE.
Maintenance-free motors and gears, fewer moving parts, and industrial-grade components—what does this mean for our customers? No scheduled maintenance required. While our competitors average two unscheduled maintenance events per day, we average only one per year.

STRUCTURAL & MECHANICAL FEATURES/SPECIFICATIONS

Tracking Type	Horizontal single axis
MW per Drive Motor	Up to 1.152 MW DC using 360W crystalline
String Voltage	Up to 1,500V DC
Maximum Linked Rows	32
Maximum Row Size	100 modules crystalline, and bifacial; 240 modules First Solar 4; 78 modules First Solar 6
Drive Type	Rotating gear drive
Motor Type	2 HP, 3 PH, 480V AC
Motors per 1 MW DC	Less than 1
East-West/North-South Dimensions	Site / module specific
Array Height	54" standard, adjustable (48" min height above grade)
Ground Coverage Ratio (GCR)	Flexible, 28–45% typical, others supported on request
Terrain Flexibility	N-S tolerance: 0° - 8.5° standard, 15° optional; Driveline: 40° in all directions
Modules Supported	Most commercially available, including frameless crystalline, thin film, and bifacial
Tracking Range of Motion	± 52° standard, ± 62° optional
Operating Temperature Range	-30°F to 140°F (-34°C to 60°C)
Module Configuration available.	Single-in-portrait standard, including bifacial. Four-in-landscape (thin film) also
Module Attachment	Single fastener, high-speed mounting clamps with integrated grounding. Traditional rails for crystalline in landscape, custom racking for thin film and frameless crystalline and bifacial per manufacturer specs.
Materials	Pre-galv steel, HDG steel and aluminum structural members, as required
Allowable Wind Load (ASCE 7-10)	140 mph, 3-second gust exposure C
Wind Protection	Passive mechanical system protects against wind damage — no power required

ELECTRONIC CONTROLLER FEATURES/SPECIFICATIONS

Solar Tracking Method	Algorithm with GPS input
Control Electronics	MCU plus Central Controller
Data Feed	MODBUS over Ethernet to SCADA system
Night-time Stow	Yes
Tracking Accuracy	± 2° standard, field adjustable
Backtracking	Yes

INSTALLATION, OPERATION & MAINTENANCE

Software	SmartTrack optimization available
PE Stamped Structural Calculations & Drawings	Yes
On-site Training and System Commissioning	Yes
Connection Type	Fully bolted connections, no welding
In-field Fabrication Required	No
Dry Slide Bearings and Articulating Driveline Connections	No lubrication required
Scheduled Maintenance	None required
Module Cleaning Compatibility	Robotic, Tractor, Manual

GENERAL

Annual Power Consumption (kWh per 1 MW)	400 kWh per MW per year, estimated
---	------------------------------------

Array Technologies, Inc. reserves the right to make changes without notice.

REV 2.0 - 09MAY2019

OTHER NOTES

NO POSITION, DISTANCE, OR CLEARANCE ISSUES WITH OVERHEAD ELECTRIC SERVICE LINES OR OTHER UTILITIES IN RELATION TO THE PV PANELS

24/7 UNESCORTED KEYLESS ACCESS FOR THE UTILITY METERS AND UTILITY AC DISCONNECT

REVISIONS

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DRAWN BY :
TONY BRIENZA

PROJECT NAME & JOB #:
CONNEXUS LANDFILL

SHEET DESCRIPTION :
RACKING DATA SHEET

SHEET SIZE:
36X24

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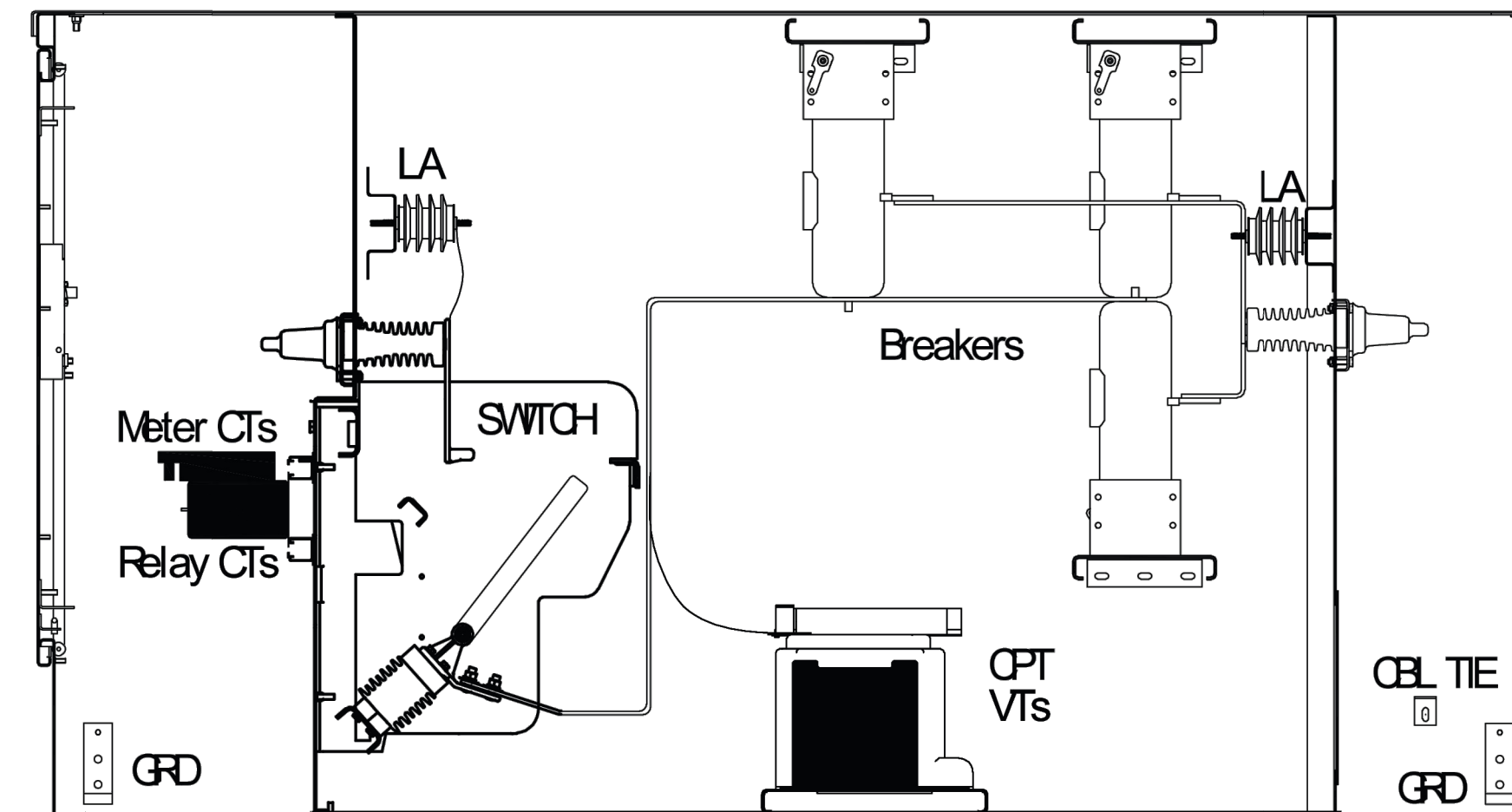
SHEET :
PV-5.6

Federal Pacific



Medium Voltage Grid Connection Solutions for Solar Farms, Battery Energy Storage Systems and Other Distributed Generation

The example below depicts a section view and one-line diagram of a typical configured GridConnex. See the configuration key located on page 4 for available options.



GridConnex with Switch (Typical, 15kV Shown) - Section View
Part Number GCA61AJ3F11WH

Position	0	1	2	3	4	5	6	7	8	9
Configured Part Number										

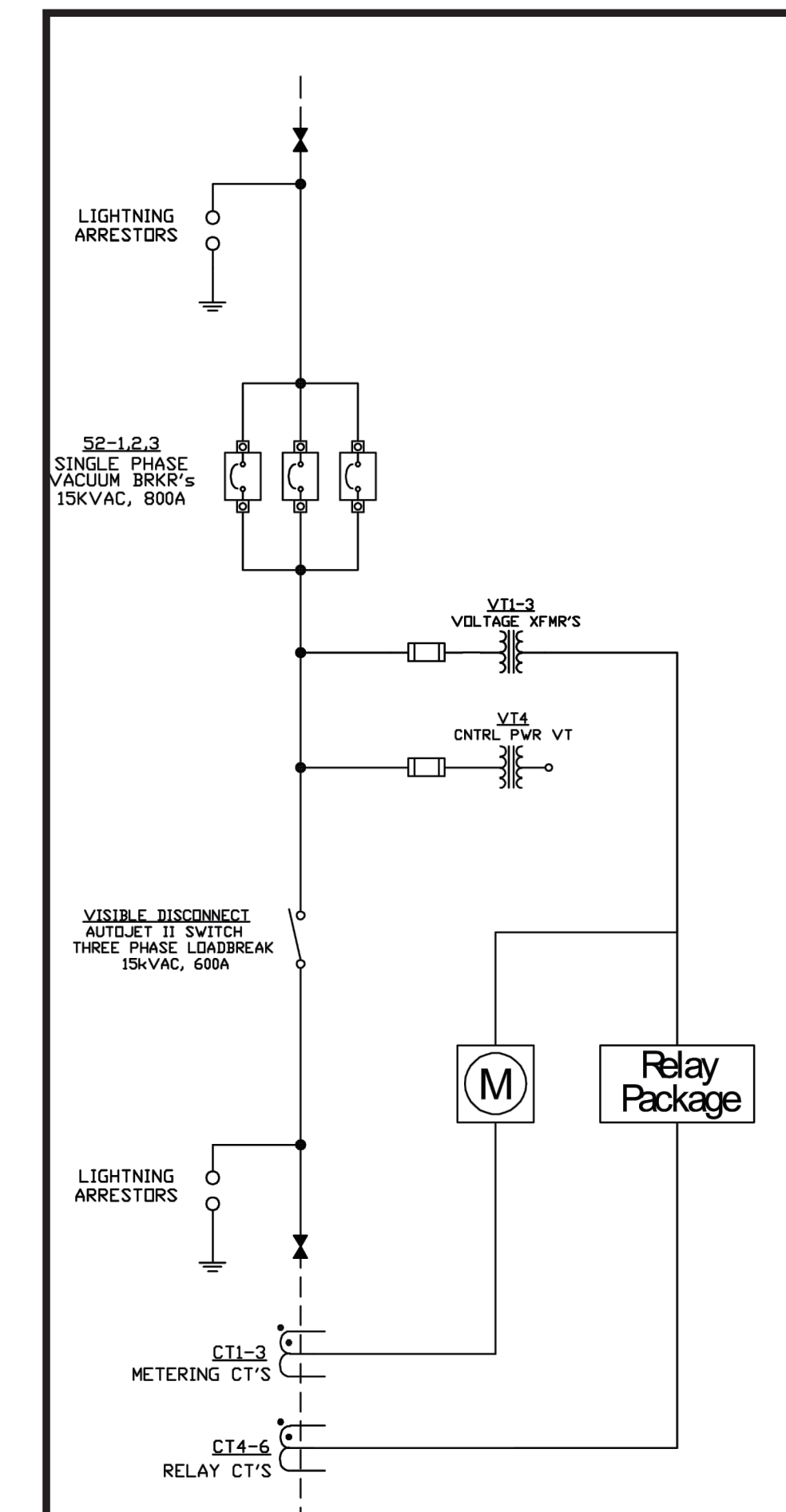
GridConnex™ Overall Equipment Ratings					
Rated Voltage	Continuous Current	Frequency	Basic Impulse Level (BIL)	Dielectric Strength	Rated Short-Circuit Current (SYM)
15kV	200/600A*	60Hz	95kV	36kV	20kA
25kV			125kV	60kV	16kA
35kV			150kV	80kV	

* Continuous current rating based on bushing or bushing well selection. Switchgear conforms to selected ANSI, NEMA, and IEEE standards.

GridConnex Typical Dimensions - With AJ Switch			
Rated Voltage	Height	Width	Depth
15kV	56	48	104
25kV	72	60	116
35kV	85	57	132

GridConnex Typical Dimensions - Without AJ Switch			
Rated Voltage	Height	Width	Depth
15kV	56	48	82
25kV	72	60	106
35kV	85	57	122

NOTE - All dimensions in inches



Typical One-Line Diagram

CEDAR CREEK ENERGY
3155 104TH LN NE
BLAINE, MN, 55449
PHONE # 763-450-9763

PROJECT ADDRESS
6501 SUNWOOD DR. NW
RAMSEY, MN 55303

UTILITY CUSTOMER OF RECORD
CEL F 2024 LLC

PROJECT DESCRIPTION	
SYSTEM SIZE (DC)	5.046 MW
SYSTEM SIZE (AC)	4.125 MW
DC/AC RATIO	1.223
AZIMUTH	90/270°
TILT	+/- 52°
MODULE TYPE	JINKO JKM580N-72HL4-BDV
MODULE COUNT	8,700
INVERTER TYPE	CPS SCH275KTL-DO/US 800 275 kW
INVERTER POWER (kW)	275kW
RACKING	SINGLE AXIS TRACKER
MONITORING	ALSO ENERGY
PROJECT AREA	~23.04 ACRE
MIN./MAX. TEMP	-26°C / 32°C

OTHER NOTES

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24/7 UNESCORTED KEYLESS ACCESS FOR THE UTILITY METERS AND UTILITY AC DISCONNECT

REVISIONS				
#	DESCRIPTION	BY	CHK'D	DATE
0	IC SET	TB	MH	12/23/2024
1				
2				

DRAWN BY :
TONY BRIENZA

PROJECT NAME & JOB #:
CONNEXUS LANDFILL

SHEET DESCRIPTION :
GRID CONNEX DATA SHEET

SHEET SIZE:
36X24

SPACE FOR PE STAMP :

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.
Signature: *Michael Herman*
Name: Michael Herman
Date: 01/24/2025 License Number: 57145

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 AWM DATA SHEET

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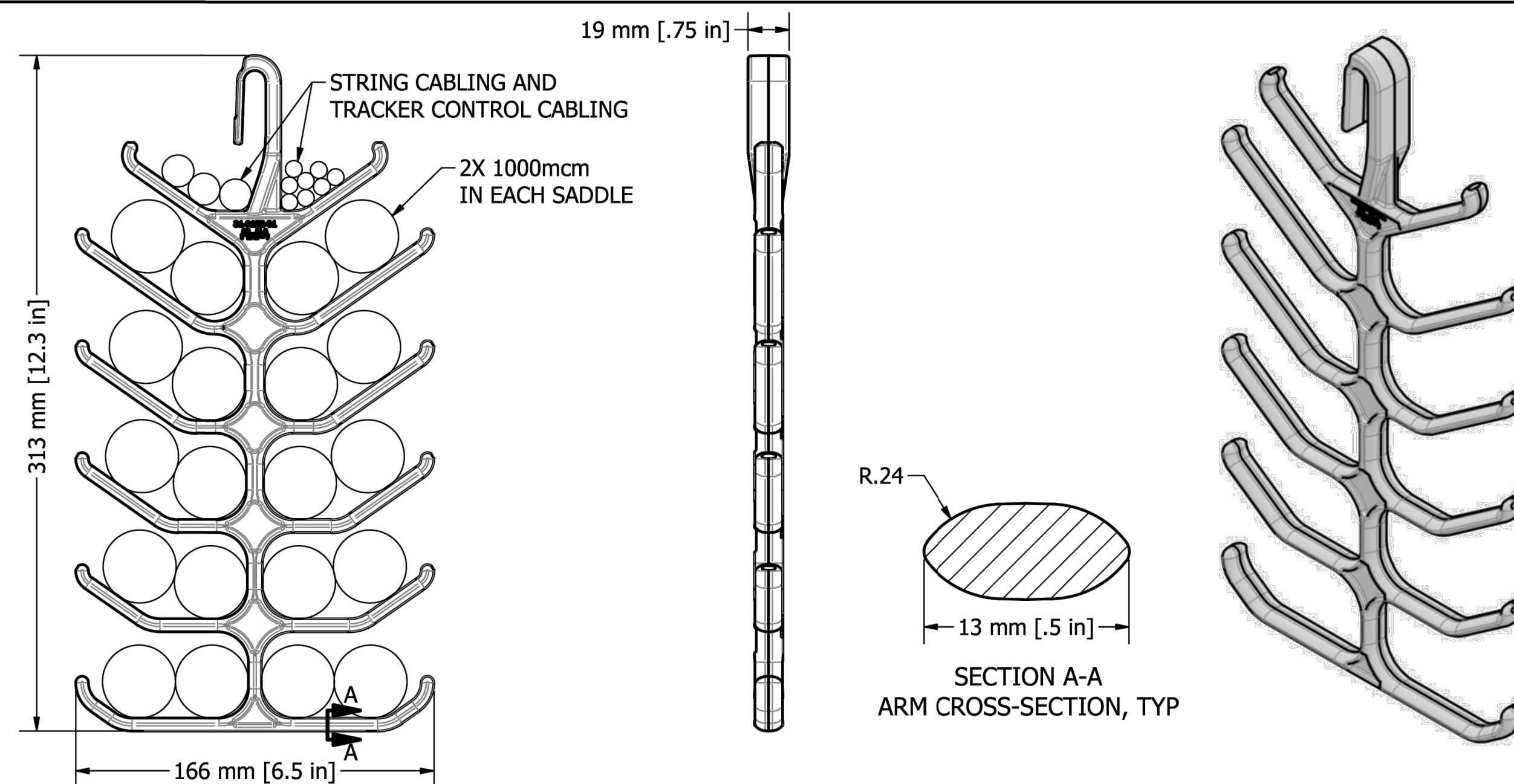
SHEET :
 PV-5.8

31-0158-01

Messenger Cable Hangers

Performance Features	Detail	Specification
<ul style="list-style-type: none"> Safe, reliable, easy-to-install solution for above-ground wire management 35+ year lifetime Up to 4.5 ft hanger spacing One step crimping installation Highly customizable to meet various design needs Excellent corrosion resistance High mechanical strength Retention features keeps the cable in the hanger Designed with a large radius at every cable contact surface 	Part Number	31-0158-01
	Material	Corrosion Resistant Die-Cast Aluminum
	Messenger Cable Compatibility	1/0 (Ø0.398in) AAAC, ACSR, or AAC
	Certified Load Rating	20lbs per saddle
	Certifications	UL1565; UL2239; UL2703 Conformance
	Cable Capacity	Top Saddles – String Cabling and Tracker Cabling; All other Saddles – 2X 1000mcm each, up to 20 total
	Installation Method	Crimp Hanger Hook onto Messenger Cable
	Part Weight	0.64 lbs
	Shipping and Packaging	72pc per box
	<ul style="list-style-type: none"> Supports up to 1000mcm conductor 	

Dimensions and typical cable arrangement



Contact: sales@affordablewm.com or visit www.affordablewm.com for more information.
 Disclaimer: The information in this datasheet is for informational purposes only. Information is subject to change at any time without notice.



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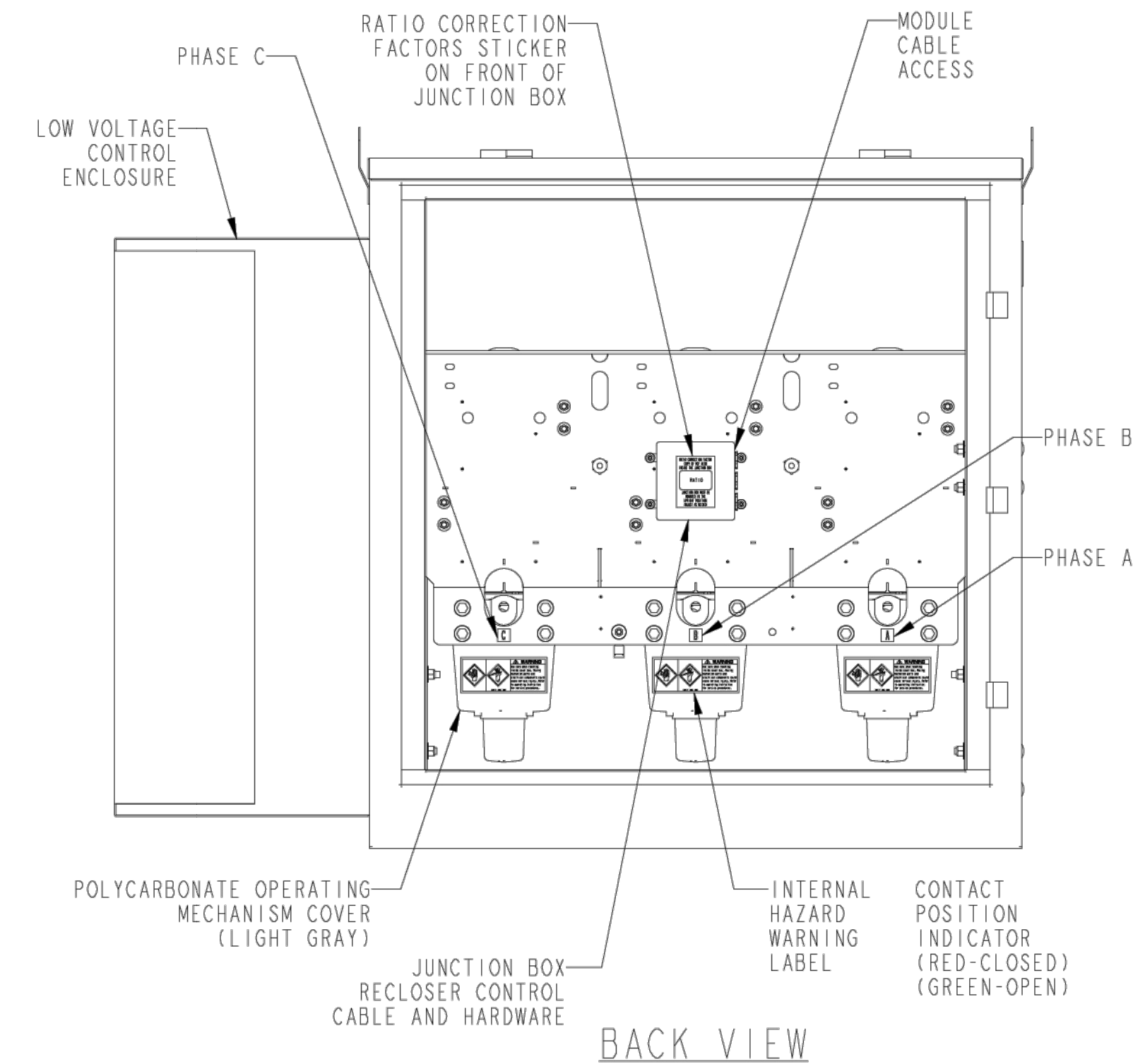
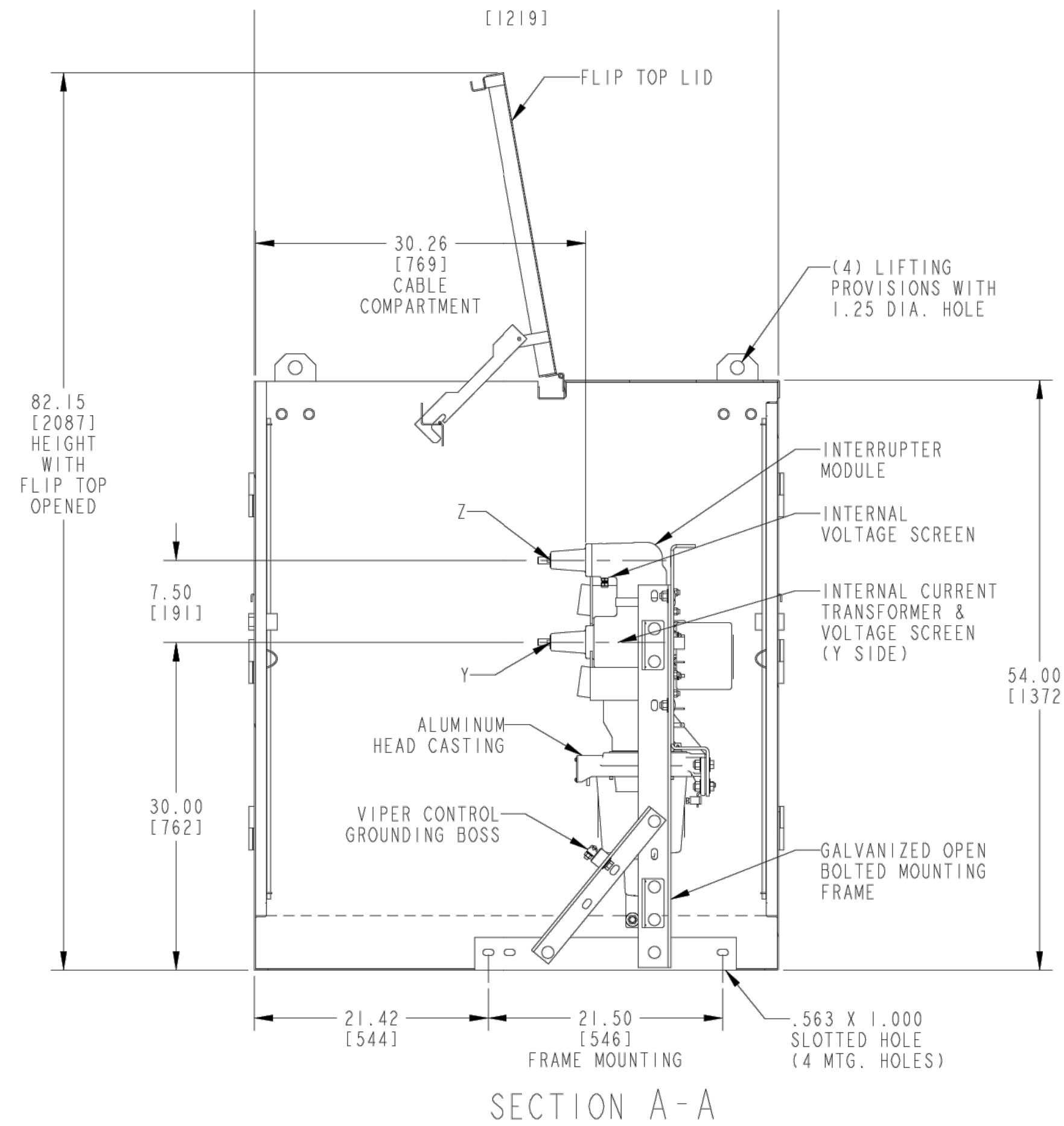
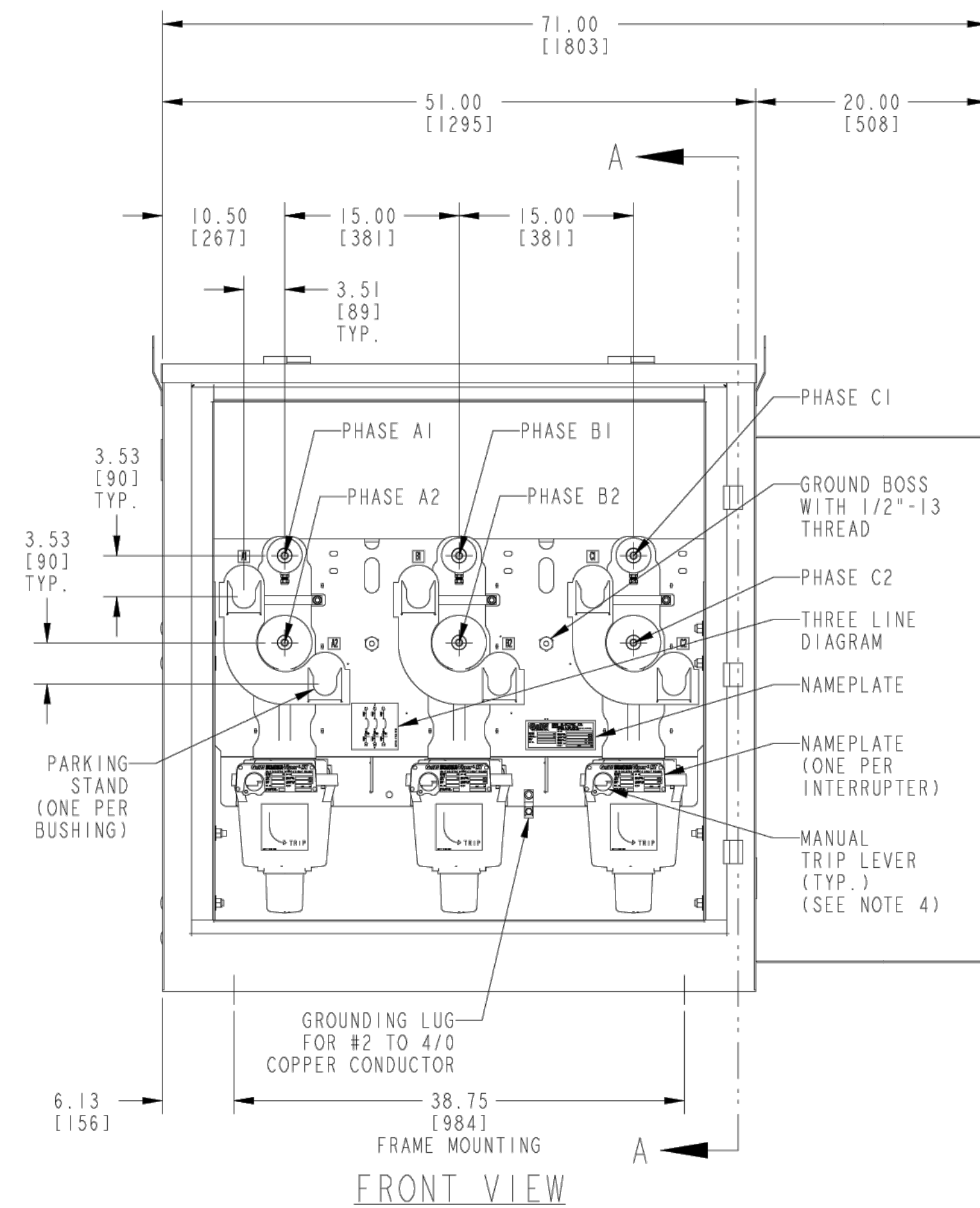
SHEET DESCRIPTION :
 VIPER RECLOSER SPECIFICATIONS

SHEET SIZE:
 36X24

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SHEET :
 PV-5.9



ENTRANCES	BUSHING ELECTRICAL CHARACTERISTICS	IEEE 386 INTERFACE
Y	15.5KV 800A DEADBREAK APPARATUS BUSHING	INTERFACE 11
Z	15.5KV 800A DEADBREAK APPARATUS BUSHING	INTERFACE 11

PRINT IDENTIFICATION

DATE _____ G&W NO. _____

CUSTOMER _____

ORDER NO. _____

FOR RECORD ITEM NO. _____

FOR APPROVAL-NO MORE WORK TO BE DONE UNTIL APPROVAL IS RECEIVED CT RATIO 1000:1

CONTROLLER NO. SEL651R22CXGAXAE1112XXXX

DC/DC OPTION USES OUTPUT _____

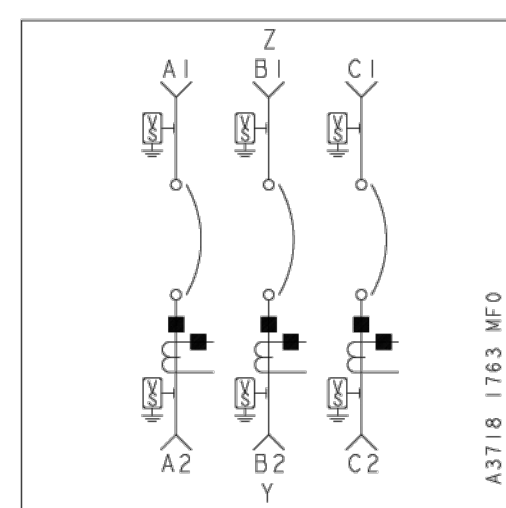
* ALL PRIMARY DIMENSIONS ARE IN INCHES.
 ALL SECONDARY DIMENSIONS ARE IN MILLIMETERS.

RECLOSER SPECIFICS:

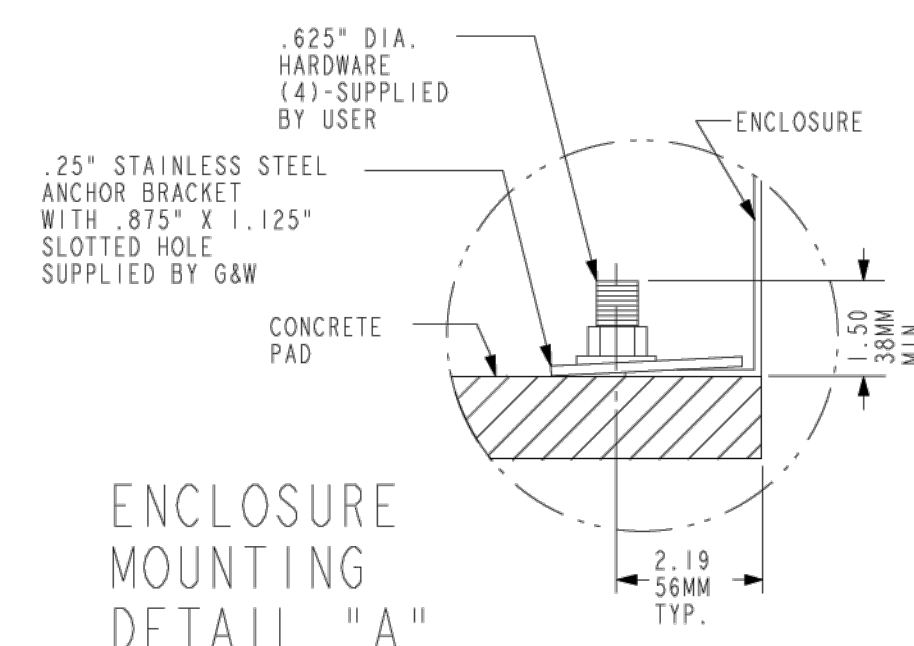
- RECLOSER IS EQUIPPED WITH A CONTROL: SEL651R22CXGAXAE1112XXXX
- CONTROLLER WEIGHT: 150 LBS APPROXIMATE.
- CONTROL CABLE IS CONNECTORIZED ON BOTH ENDS. CABLE LENGTH 10 FT.
- CABLES FROM MODULES ARE HARDWIRED INTO JUNCTION BOX.
- CT RATIO FACTORY SET AT 1000:1 RATIO
- VIPER IS EQUIPPED WITH SIX VOLTAGE SENSORS. THREE INTERNAL LOW ENERGY ANALOG (LEA) VOLTAGE SENSORS ARE LOCATED ON THE Y SIDE AND THREE INTERNAL LEA VOLTAGE SENSORS ARE LOCATED ON THE Z SIDE.
- MAXIMUM OUTPUT OF INTERNAL LEA VOLTAGE SENSOR IS 5 VAC WITH A 10,000:1 RATIO.
- LEA VOLTAGE SENSING IS CALIBRATED AT THE FACTORY USING RATIO CORRECTION FACTORS (RCFS) PROVIDED WITH THE VIPER.
- RCFS ARE PROGRAMMED INTO THE CONTROL PAIRED WITH THE VIPER. RCFS MUST BE REPROGRAMMED IF DIFFERENT CONTROL IS USED. SEE LABEL INCLUDED WITH THE CONTROL FOR RCF VALUES AND EQUIVALENT PT RATIO.

RECLOSER ELECTRICAL INFORMATION
 SEE NOTES FOR LIMITATIONS

RATED VOLTAGE (MAXIMUM)	15.5	KV
IMPULSE LEVEL (BIL)	110	KV
CONTINUOUS CURRENT, RMS SYM	800	AMP
CURRENT INTERRUPTING, RMS SYM	12.5	KA
AC 1 MIN. WITHSTAND (DRY)	35	KV
DC 15 MIN. WITHSTAND	53	KV
MOMENTARY CURRENT, RMS ASYM	20.0	KA
MAKING CURRENT, RMS ASYM	20.0	KA
SHORT-TIME WITHSTAND RATING (3 SEC. DURATION), RMS SYM	12.5	KA



IN SERVICE WEIGHT APPROX. 1200 LBS / 545 KG
 SHIPPING WEIGHT APPROX. 1450 LBS / 659 KG



ENCLOSURE MOUNTING DETAIL "A"

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DRAWN BY :
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PROJECT NAME & JOB #:
 CONNEXUS LANDFILL

SHEET DESCRIPTION :
 VIPER RECLOSER SPECIFICATIONS

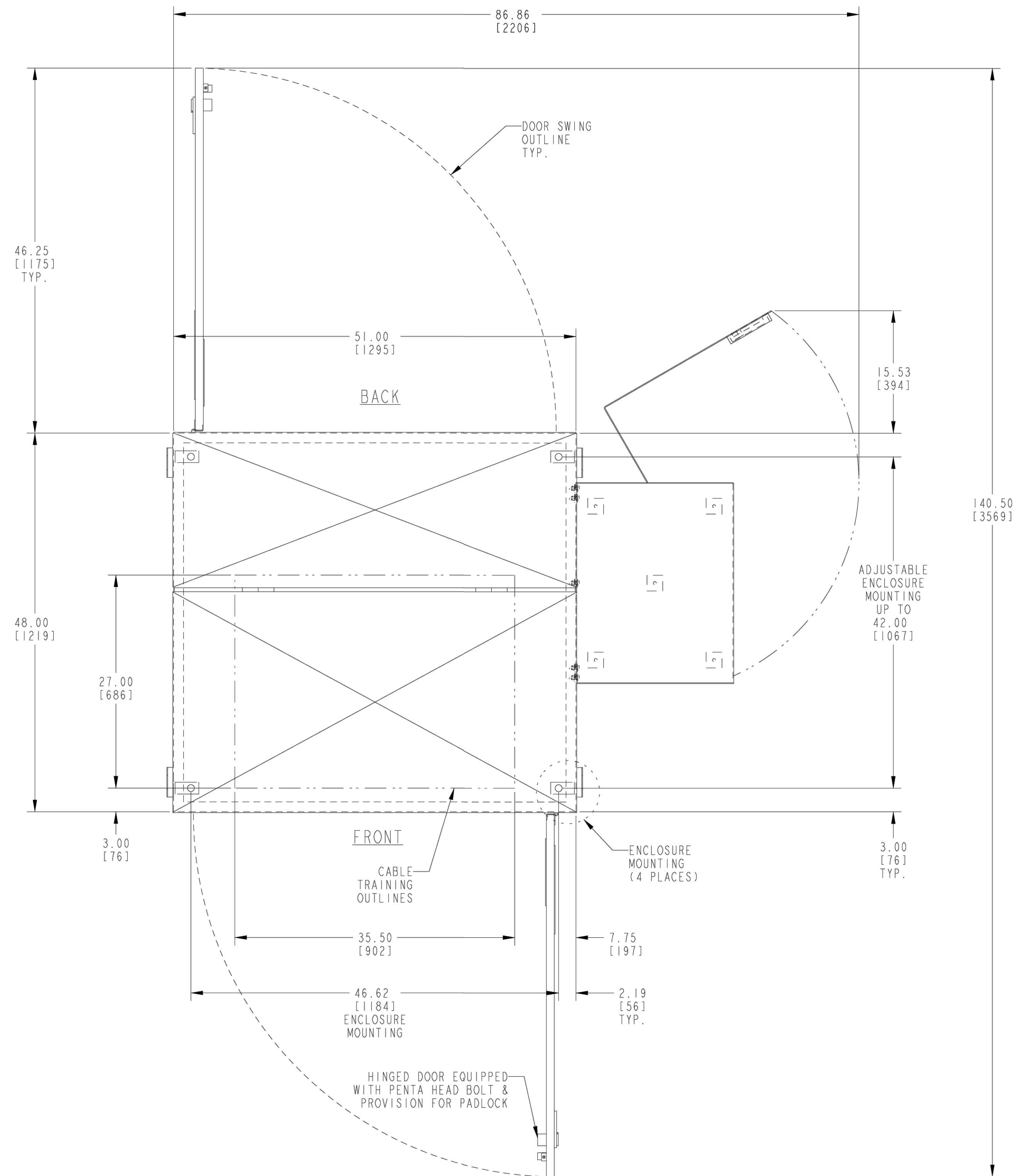
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 36X24

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 Date: 01/24/2025 License Number: 57145

SHEET :

PV-5.10



PLAN VIEW SHOWING MAXIMUM DIMENSIONS WHEN ENCLOSURE DOORS ARE OPEN

NOTES:

- POLYCARBONATE OPERATING MECHANISM COVER MOLDED LIGHT GRAY.
- MOUNTING INFORMATION: THE FRAME OF THE RECLOSER MUST BE ANCHORED TO THE PAD. THE FRAME IS EQUIPPED WITH (4) SLOTTED ANCHORING HOLES, EACH MEASURING .563" X 1.000". THE LOCATIONS OF THESE HOLES, REFERRED TO AS "FRAME MOUNTING" ARE SHOWN IN THE FRONT VIEW AND SECTION A-A. THE PAD MOUNT ENCLOSURE SHOULD BE SECURED TO THE PAD TO PROVIDE IT WITH ADDITIONAL STABILITY. EACH PAD MOUNT ENCLOSURE IS SHIPPED WITH 4 SECURING BRACKETS THAT ARE TO BE USED FOR THIS PURPOSE. THE SECURING BRACKETS CAN BE INSTALLED ANYWHERE ALONG THE INNER EDGE OF THE ENCLOSURE. SEE ENCLOSURE MOUNTING DETAIL "A" AND THE PLAN VIEW FOR MORE DETAILS ABOUT SECURING THE PAD MOUNT ENCLOSURE TO THE PAD.
- INTERRUPTER MODULES ARE NOT INTENDED FOR DEAD ENDING. SEPARATE STRAIN RELIEF IS REQUIRED FOR CABLES.
- MANUAL TRIP LEVER EQUIPPED WITH ELECTRICAL AND MECHANICAL LOCKOUT OF CLOSING CIRCUIT WHEN LEVER IS IN THE TRIPPED POSITION.
- RECLOSER EQUIPPED FOR DEADLINE OPERATION USING POWER FROM THE BATTERY IN THE SEL651R (32 PIN DESIGN).
- GALVANIZED STEEL ENCLOSURE FINISHED PADMOUNT GREEN PER MUNSELL NO. 7GY3.29/1.5. ENCLOSURE IS DESIGNED PER APPLICABLE SECTIONS OF ANSI/IEEE C37.74 AND C57.12.28. DRAWING IS TYPICAL AND SHOWS THE OVERALL DIMENSIONS ONLY. CONSTRUCTION DETAIL MAY VARY FROM THOSE DEPICTED. ENCLOSURE DOORS EQUIPPED WITH THREE POINT LATCH WITH PENTA HEAD BOLT AND PROVISIONS FOR PADLOCKING.
- 800A APPARATUS BUSHINGS ARE SUITABLE FOR USE WITH 600A OR 900A RATED ELBOWS.
- WHEN ELBOWS, INSERTS, AND ANY OTHER ACCESSORIES ARE CONNECTED TO THE SWITCH, THE RATING OF EACH CONNECTED ASSEMBLY WILL BE THE LOWEST RATED COMPONENT OF THAT ASSEMBLY.
- RECLOSER IS EQUIPPED WITH A 1000/500:1 CURRENT TRANSFORMER ON EACH PHASE FACTORY SET AT 1000:1 RATIO. REFER TO INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS FOR CHANGING CURRENT TRANSFORMER RATIO IN THE FIELD.

* ALL PRIMARY DIMENSIONS ARE IN INCHES.
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SHEET DESCRIPTION :
 METER CABINET SPECIFICATIONS

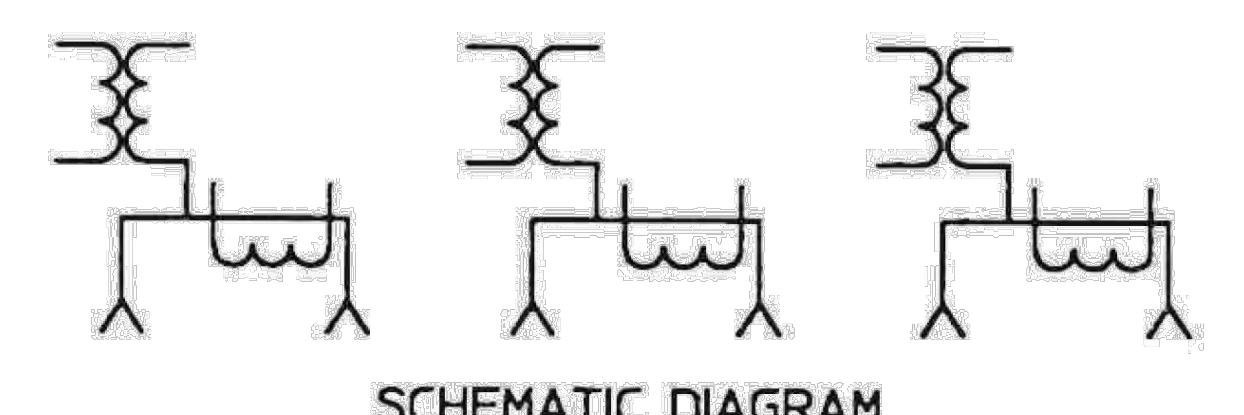
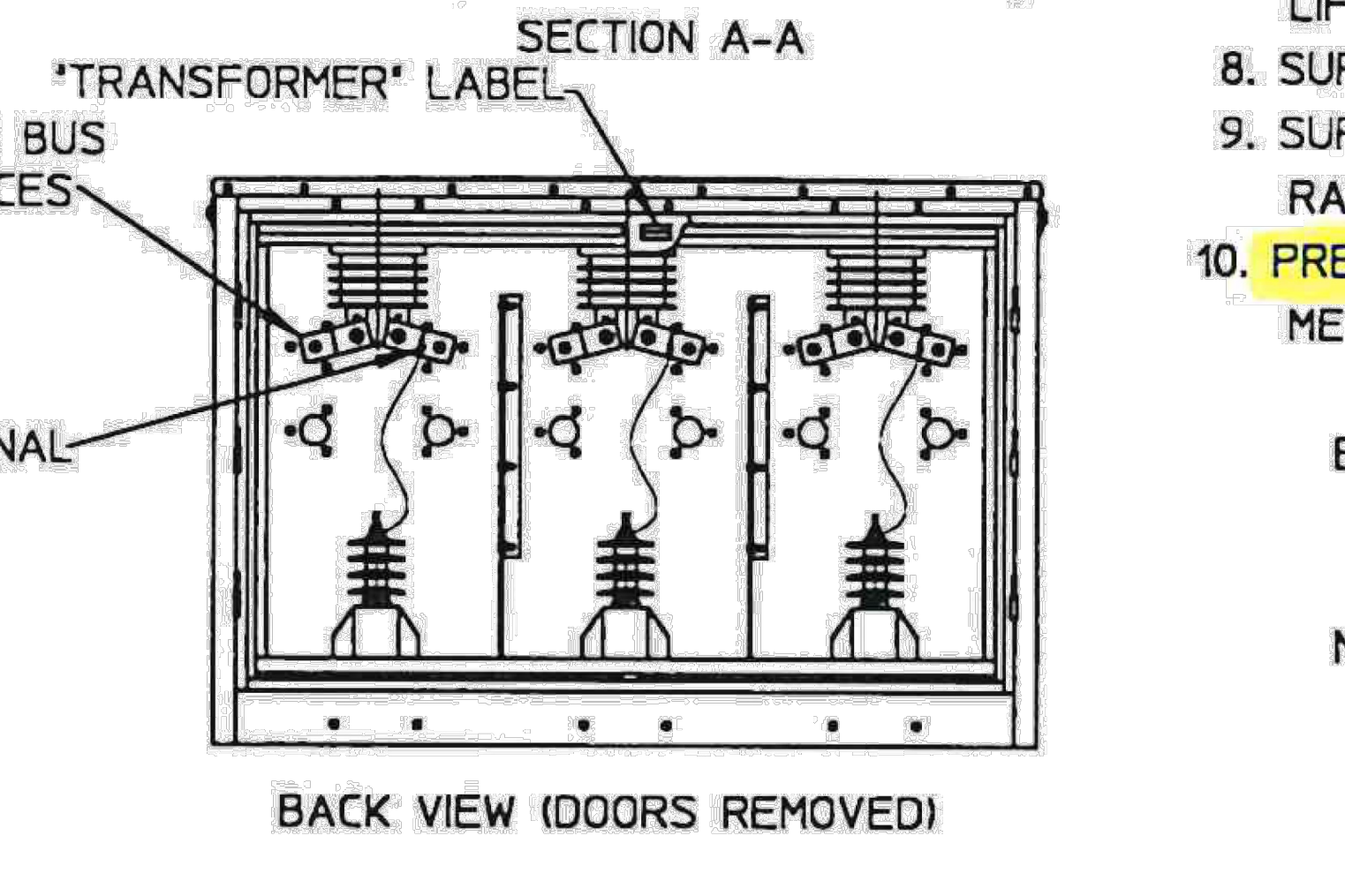
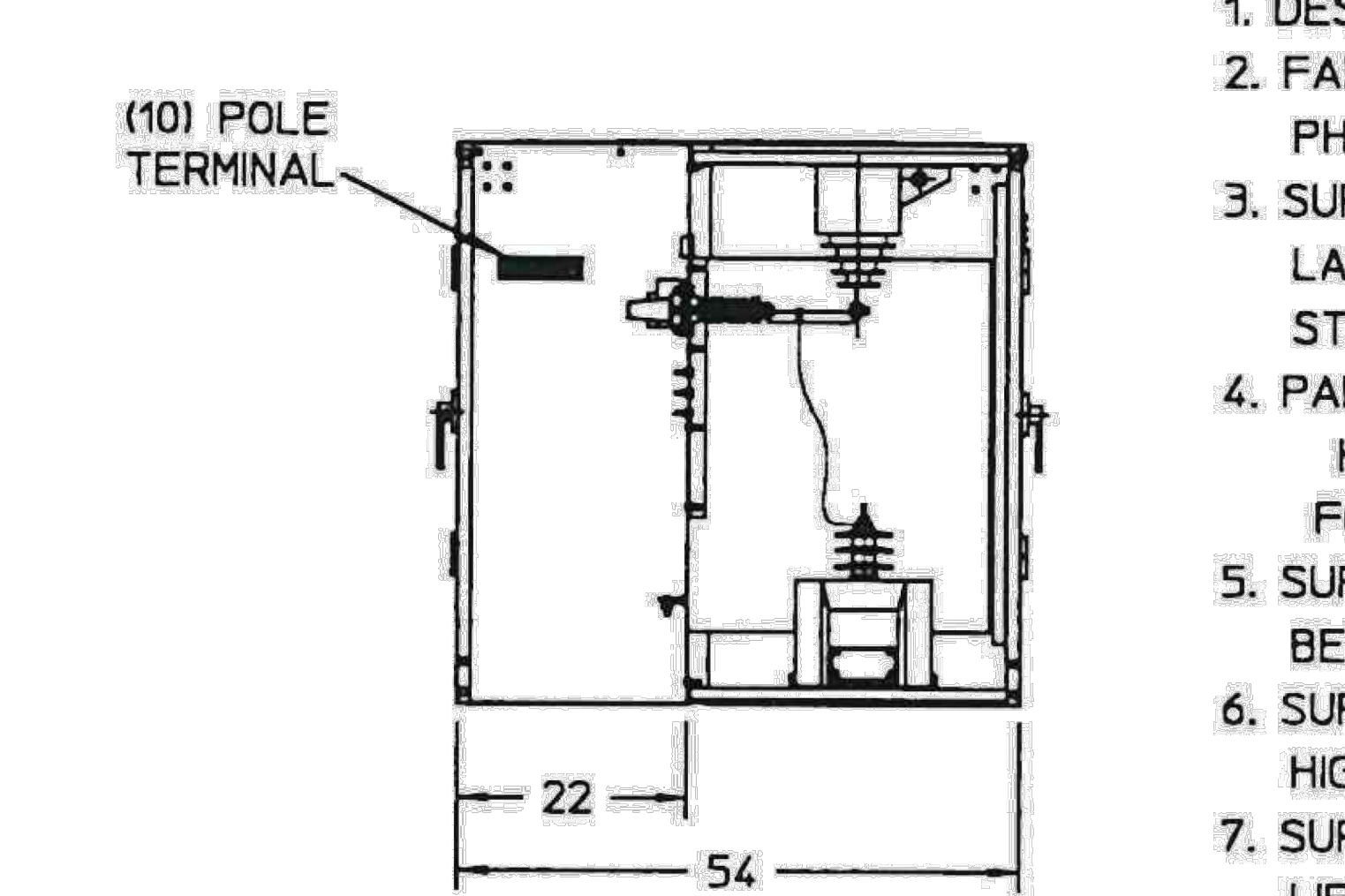
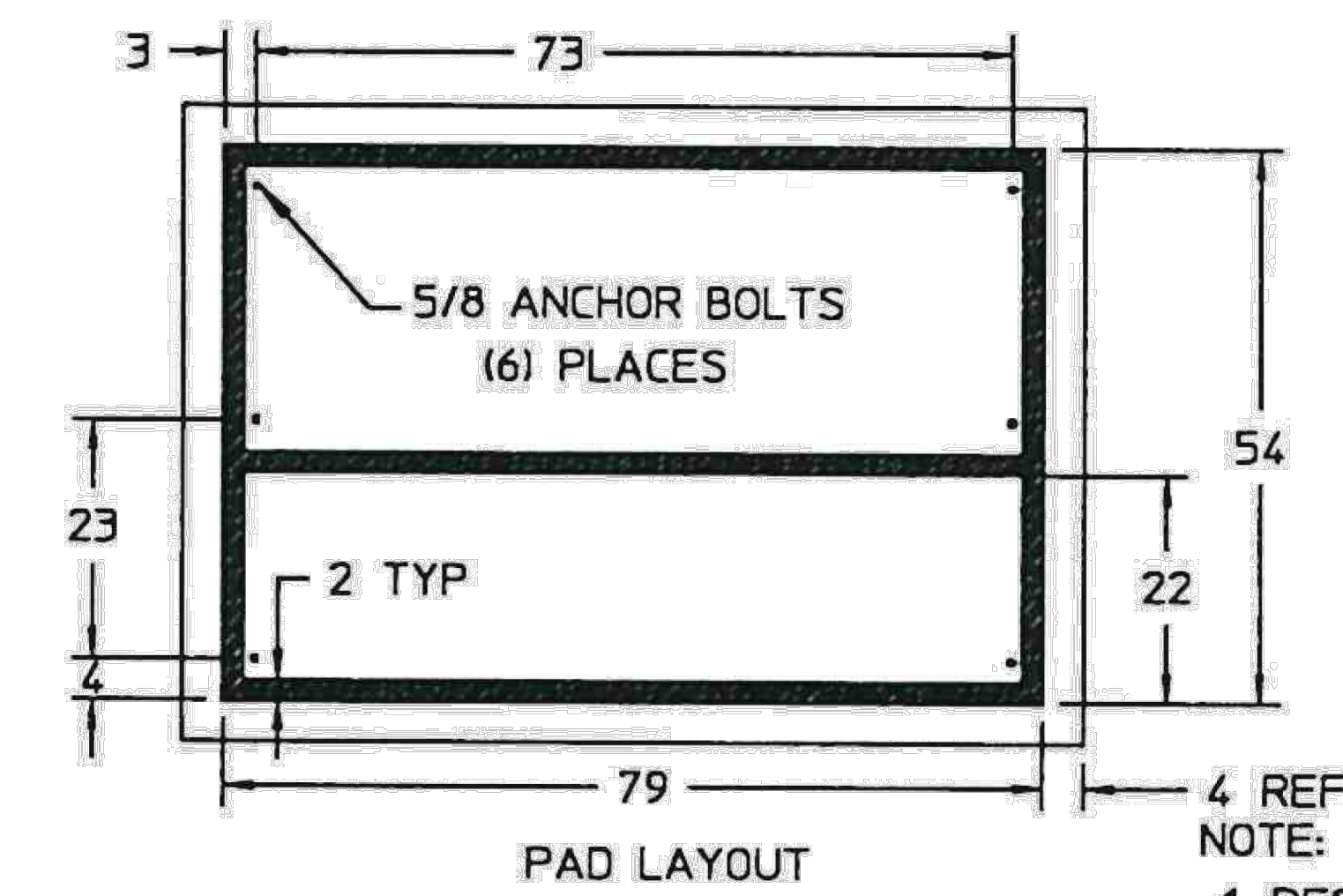
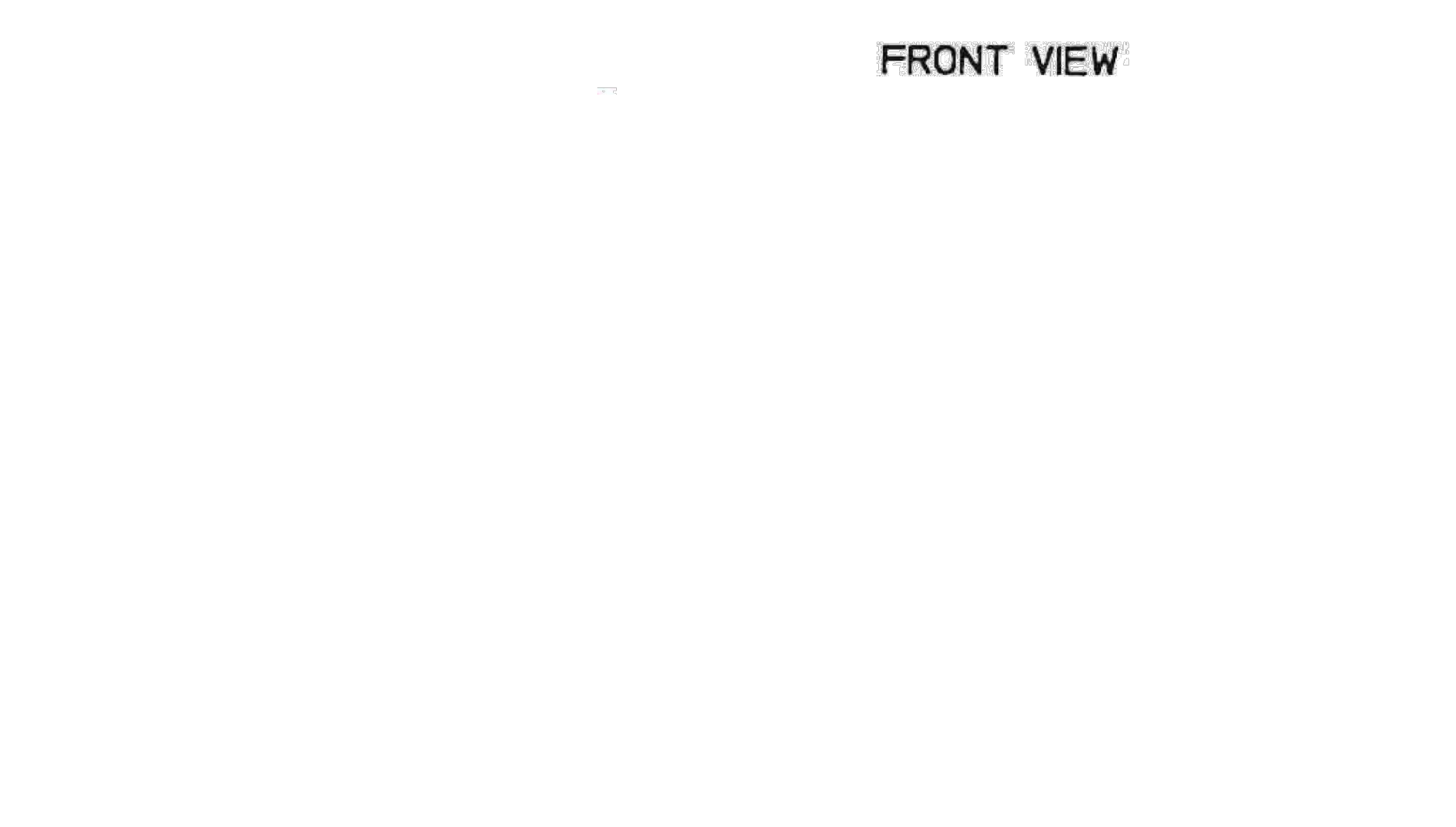
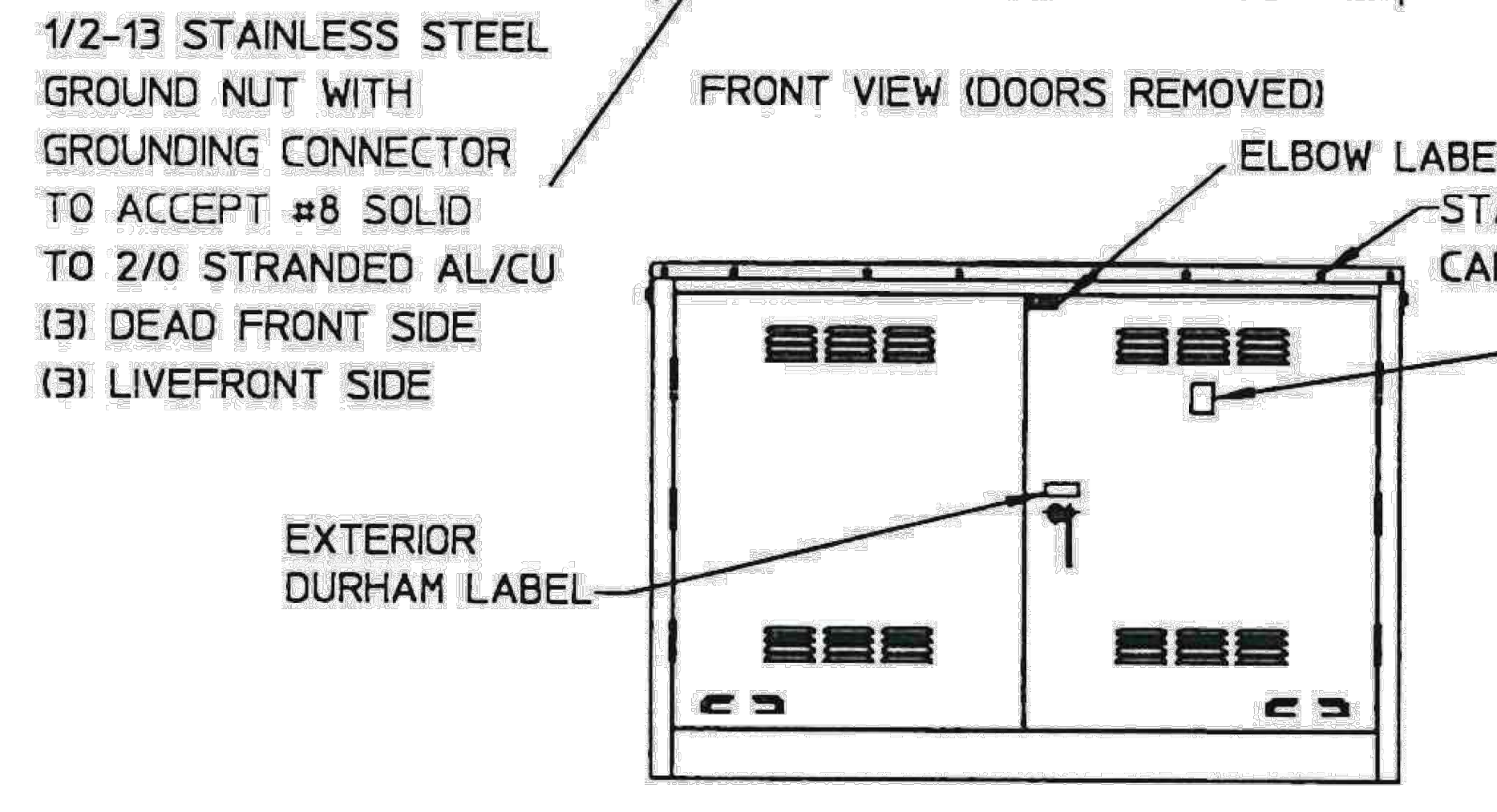
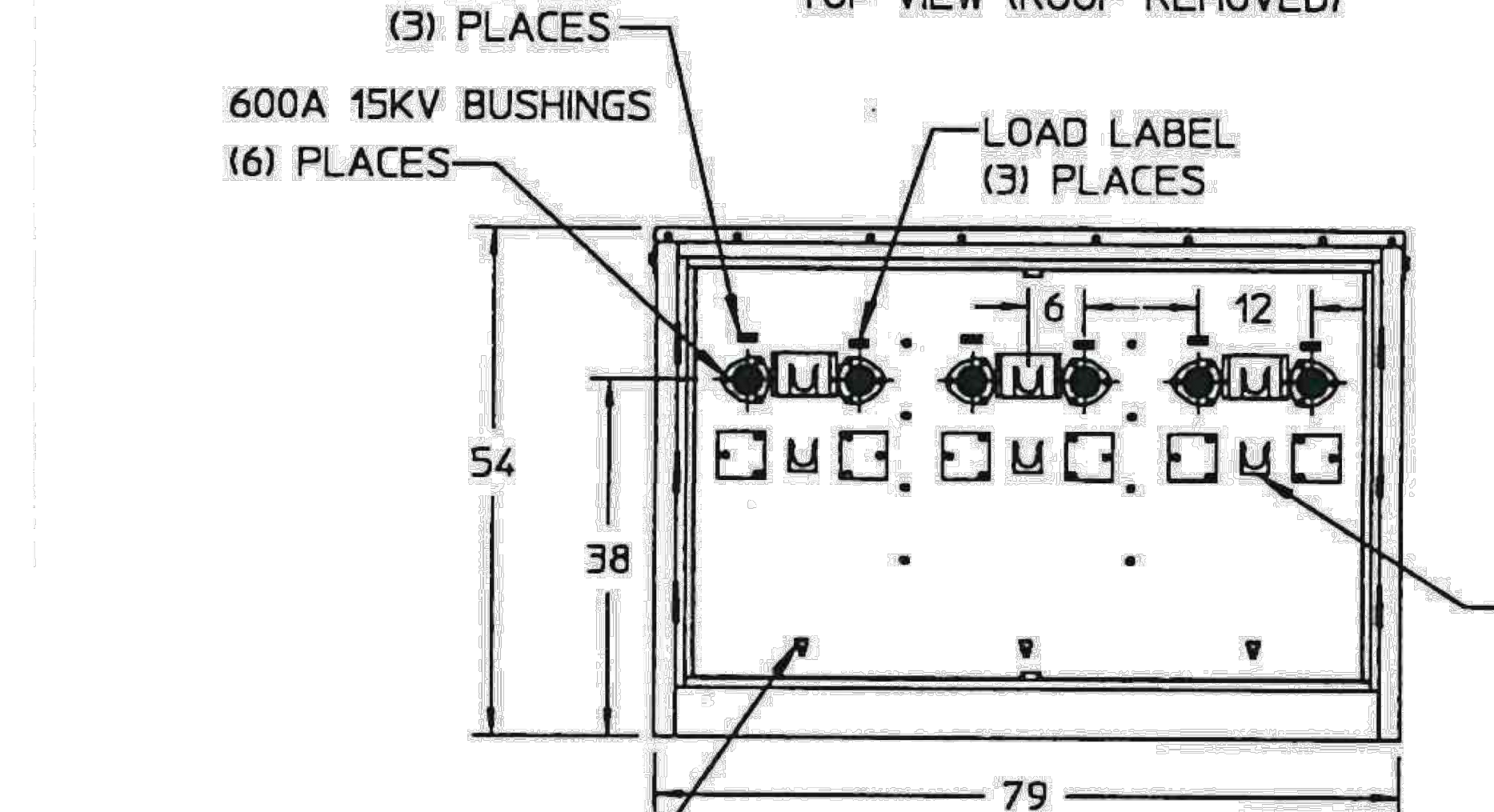
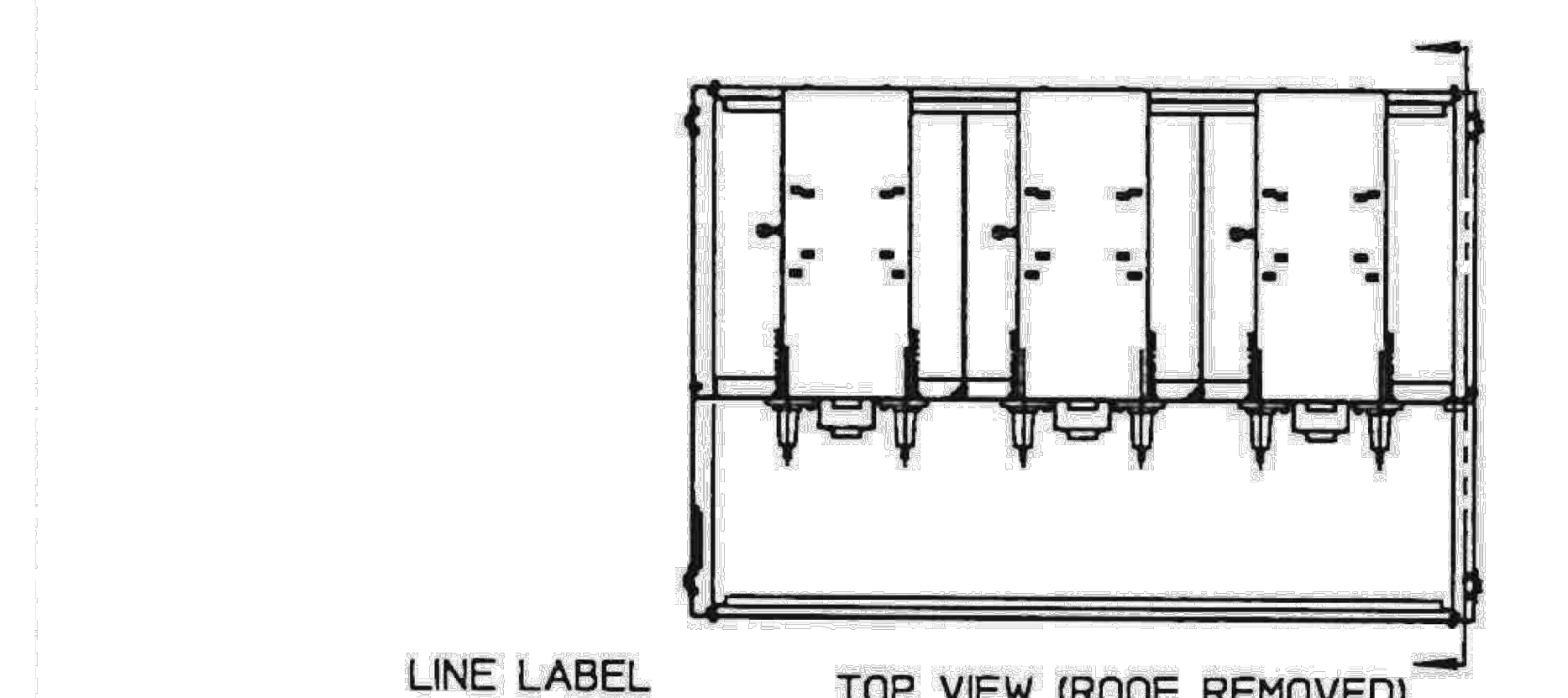
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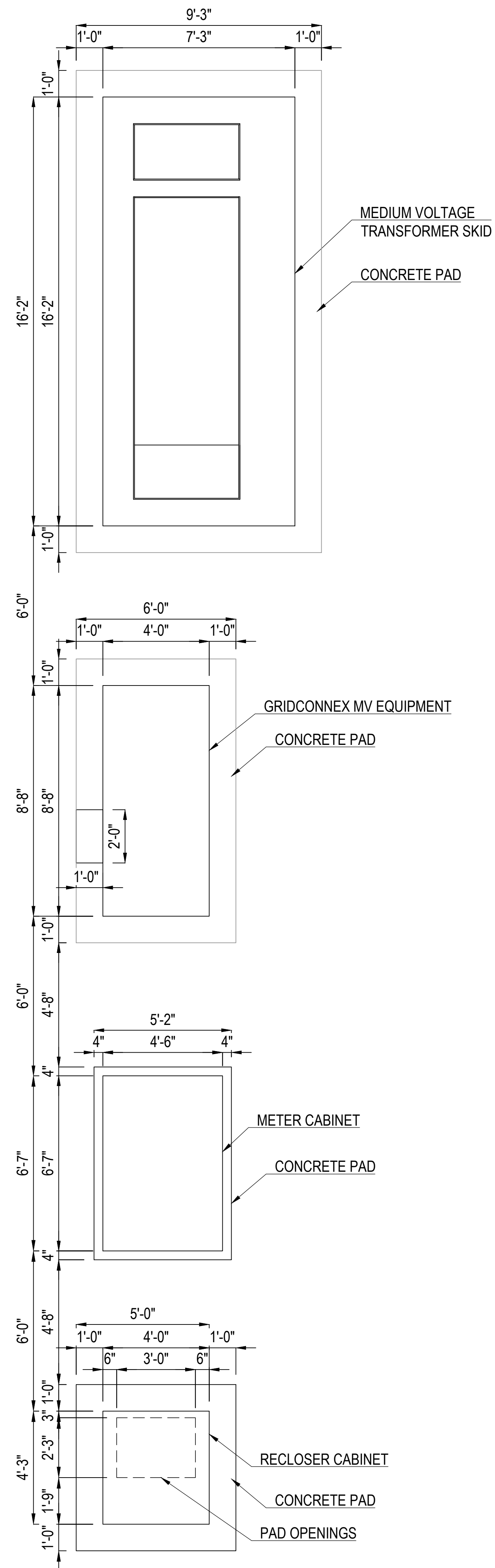
PV-5.11



- 4 REF NOTE:
- DESIGNED TO CONFORM TO IEEE C57.12.28
 - FABRICATED FROM 12GA G-90 GALVANIZED PHOSPHATIZED STEEL.
 - SUPPLIED WITH 3-POINT STAINLESS STEEL LATCH WITH SILICONE BRONZE OR STAINLESS STEEL PENTA HEAD BOLT.
 - PAINTED 'PAD-MOUNT GREEN' MUNSELL 7GY 3.29/1.5 HUNTER MAX DELTA E OF 4 (CONTACT FACTORY FOR COLOR MATCHING STANDARDS/SWATCHES).
 - SUPPLIED WITH GPO-3 ISOLATING BARRIER BETWEEN PHASES.
 - SUPPLIED WITH GPO-3 DOOR BARRIERS ON THE HIGH VOLTAGE COMPARTMENT.
 - SUPPLIED WITH 5/8-11 STAINLESS STEEL LIFTING NUTS (4).
 - SUPPLIED WITH (3) ARTECHE URJ-17 7200/12470 60:1 VTS.
 - SUPPLIED WITH (3) ARTECHE CRE-17 600:5 CTS. RATING FACTOR: 0.15 B-1.8.
 - PREWIRED FROM 10 POLE TERMINAL TO TRANSFORMERS METER FORM 9S (NOT SHOWN).

ELECTRICAL RATING:
 VOLTAGE: 7200/12470 VAC
 BIL: 95 KV
 METERED CIRCUIT: 600 AMP @ 30° AMBIENT
 MAIN BUS: 600 AMP
 BUSHING LINE: 600 AMP (15 KV CLASS-8.3/14.4 KV MAX)
 BUSHING LOAD: 600 AMP (15 KV CLASS-8.3/14.4 KV MAX)

EQUIPMENT PAD #2 LAYOUT



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 PV-6.0