

MCHENRY SOLAR FARM LLC

MCHENRY COUNTY, ILLINOIS

SHEET LIST :

E-DEV.01-CP	COVER PAGE
E-DEV.02-EC	EXISTING GENERAL CONDITIONS PLAN
E-DEV.03-EC	EXISTING CONDITIONS
E-DEV.04-SP	SITE PLAN
E-DEV.05-CD	CONSTRUCTION DETAILS
E-DEV.06-FD	FENCE DETAILS
E-DEV.07-ES	EQUIPMENT SPECIFICATIONS

SHEET NOTE

LEGAL DESCRIPTION OF THE PROJECT SITE IN RELATION TO THE DEVELOPMENT PARCEL SUBMITTED TO MCHENRY COUNTY OF RECORD.

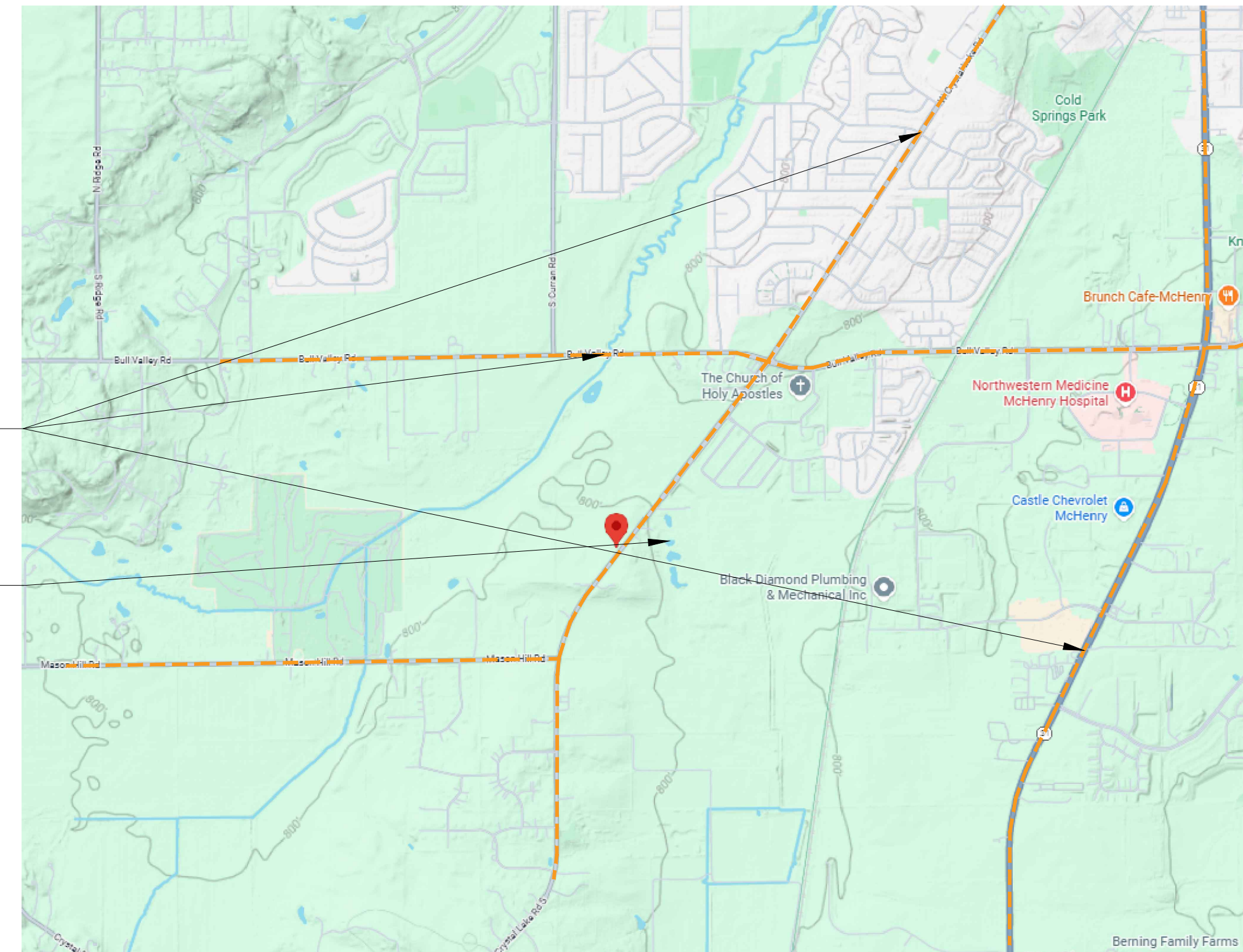
REFER TO DETAIL 1 / E-DEV.07-ES FOR EQUIPMENT SPECIFICATION CUTSHEET: PV MODULE 625 WATT (DC) INFORMATION.

REFER TO DETAIL 2 / E-DEV.07-ES FOR EQUIPMENT SPECIFICATION CUTSHEET: STRING INVERTER 125 KW (AC) INFORMATION.

VARIOUS MEANS OF TRANSPORTATION ACCESS (TYP.)

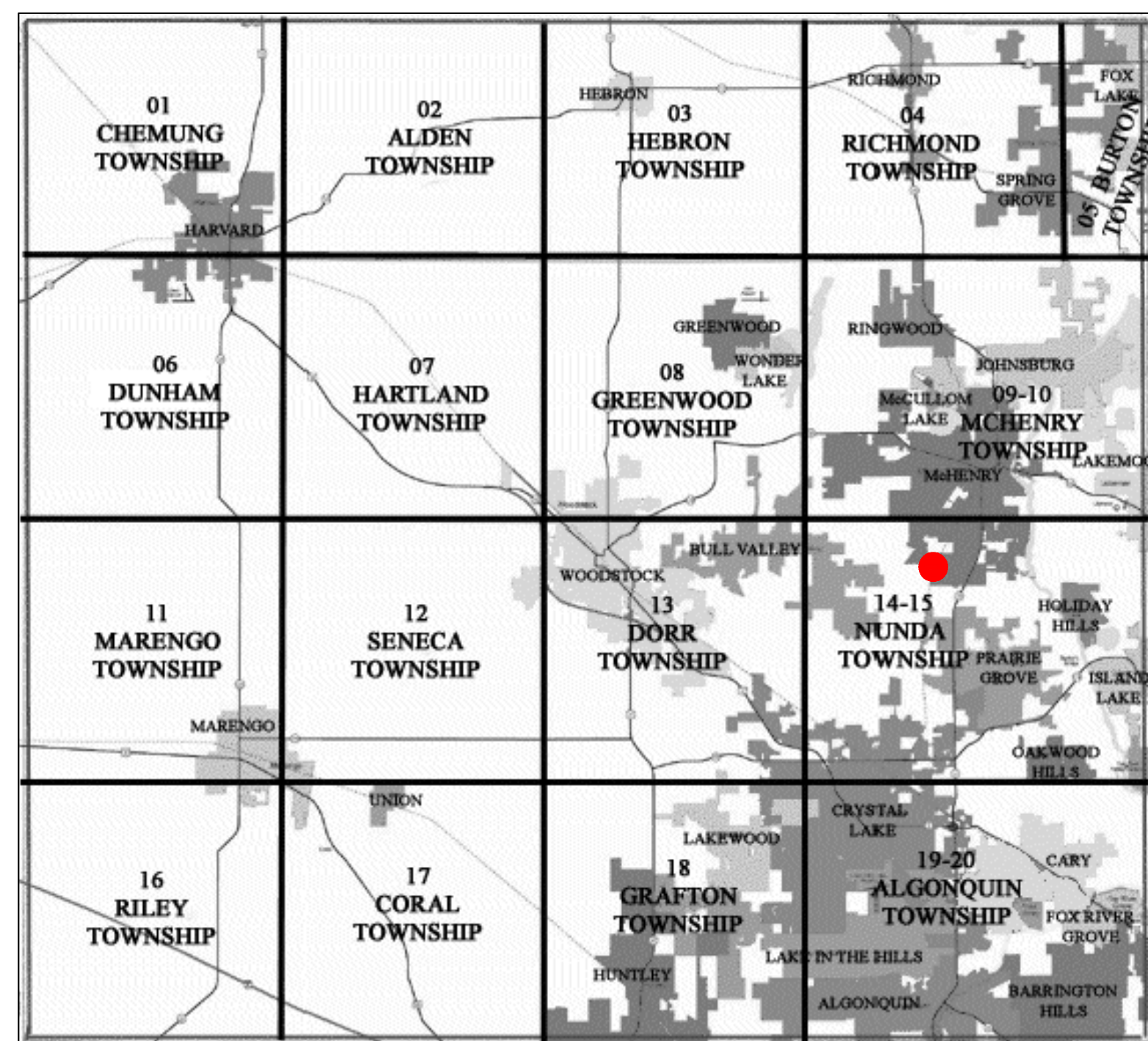
PROJECT ADDRESS PRIMARY CONSTRUCTION LOGISTICS ROUTE

ANY INTERSTATE VIA (IL-31) HEADING WEST TOWARDS TO BULL VALLEY RD. HEADING SOUTH TO CRYSTAL LAKE RD S. PARCEL LOCATED WEST OF CRYSTAL LAKE RD S.

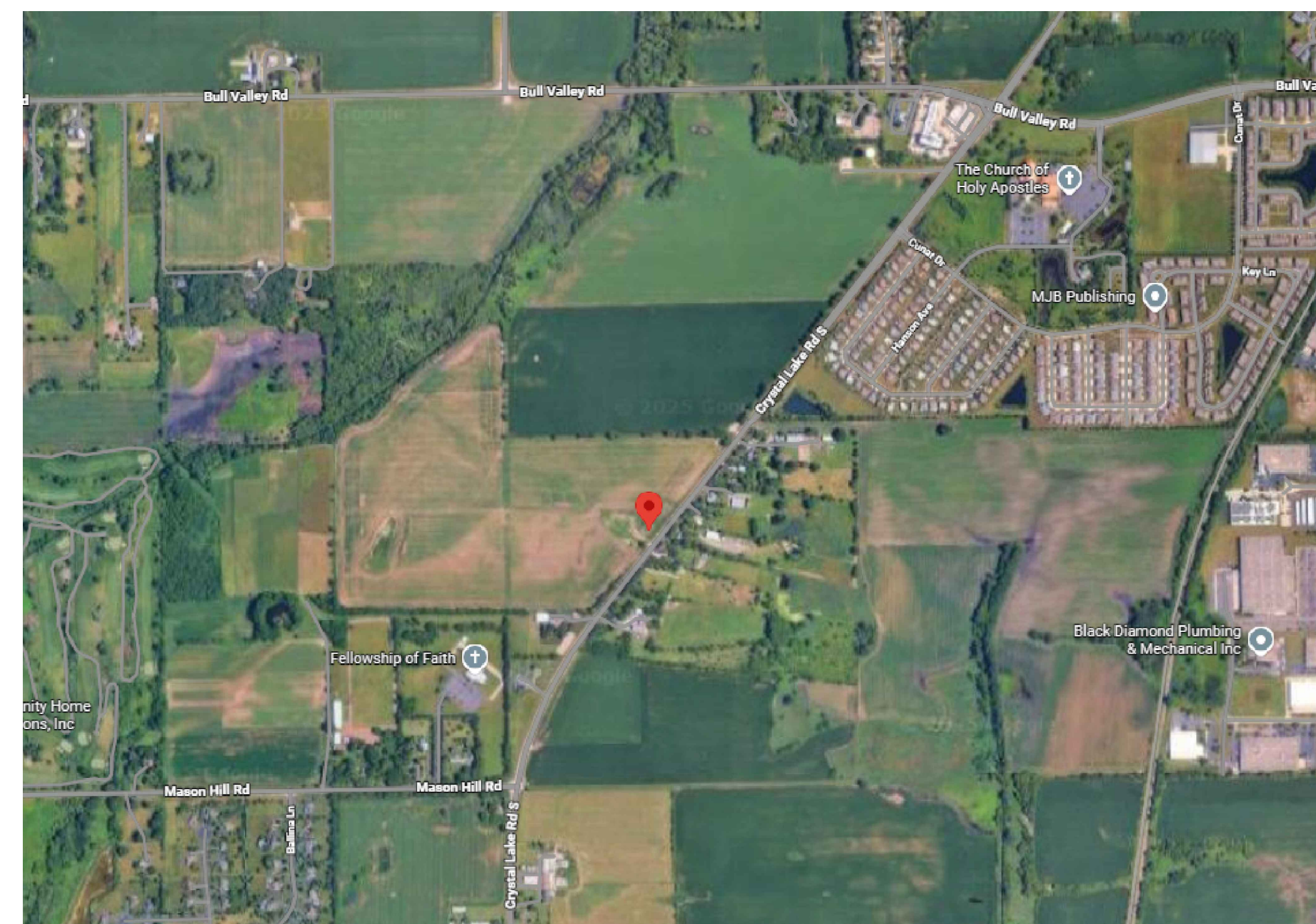


1 IDOT CONSTRUCTION LOGISTICS ROUTE(S)
NOT TO SCALE

2 MCHENRY COUNTY, IL
NOT TO SCALE



3 McHENRY COUNTY LOCATION MAP
NOT TO SCALE



4 VICINITY MAP
NOT TO SCALE

SITE INFORMATION

PARCEL ZONING : A-1 AGRICULTURE

PROJECT DESCRIPTION

PROJECT LOCATION : 1207 Crystal Lake Rd S, McHenry, IL 60050
PROJECT PARCEL : 37 ACRES
P.I.N : 14-09-100-001 (Partial)
14-09-100-002 (Partial)

UTILITY : COMMONWEALTH EDISON
SYSTEM SIZE DC : 7590 kWp
SYSTEM SIZE AC : 5000 KW
DC/AC RATIO : 1.52
AZIMUTH : 180°
TILT : +/- 52°
GROUND COVERAGE RATIO : 33.5%

MODULE MAKE & MODEL : QCELL Q.TRON XL-G2 625
MODULE RATING : 625 Wp
MECHANICAL SYSTEM : HORIZONTAL TRACKER
INVERTER MAKE & MODEL : CPS SCH125KTL-DO/US-600

REV	Date	Revision Details	PM	ENG	CHK
R2	02/17/2026	ISSUE FOR SUP			
R1	01/24/2026	ISSUE FOR SUP			
RD	01/03/2026	ISSUE FOR REVIEW			

Revision Table

Engineer

Developer
MCHENRY SOLAR FARM LLC
141 W JACKSON BLVD, STE 1692
CHICAGO, IL 60604
WWW.SURYAPOWERS.COM

Project Name & Address
MCHENRY SOLAR FARM LLC
1207 CRYSTAL LAKE RD S,
MCHENRY, IL 60140
MCHENRY
P.I.N. 14-09-100-001 (PARTIAL) & 14-09-100-002 (PARTIAL)

Drawing Title
COVER PAGE

Project No 1104	Drawing No E-DEV.01-CP
Paper Size 36" x 24"	Sheet No. 01



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LEGENDS

— DEVELOPMENT PARCEL

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Drawing Title
EXISTING CONDITIONS
 EXISTING GENERAL CONDITIONS PLAN
 SHOWING ADJACENT LAND PARCELS ZONING
 & PIN NUMBER, ROADS, GEOGRAPHY
 PROPERTIES, SATELLITE VIEW

Project No 1104	Drawing No E-DEV.02-EC
Paper Size 36" x 24"	Sheet No. 02

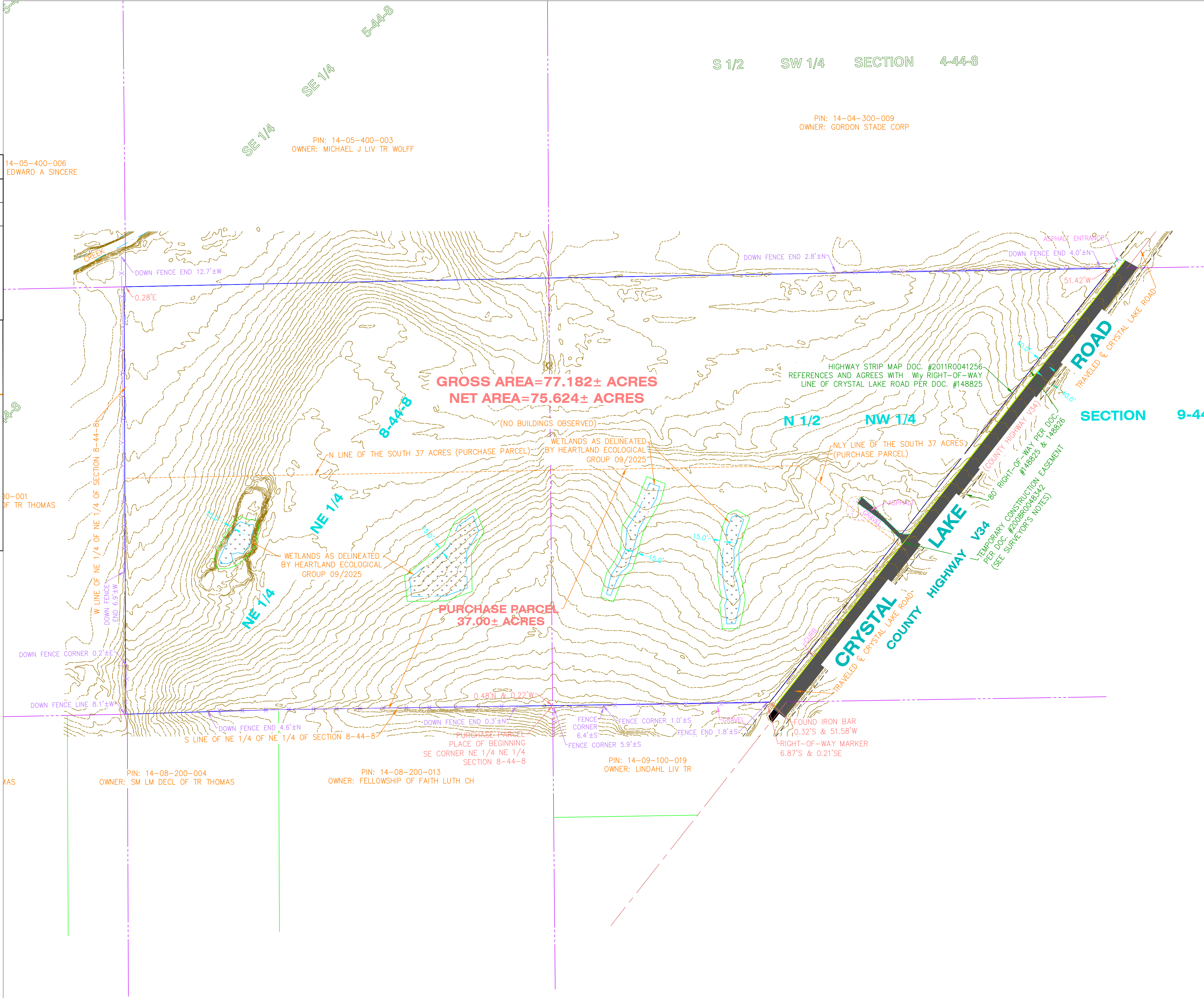
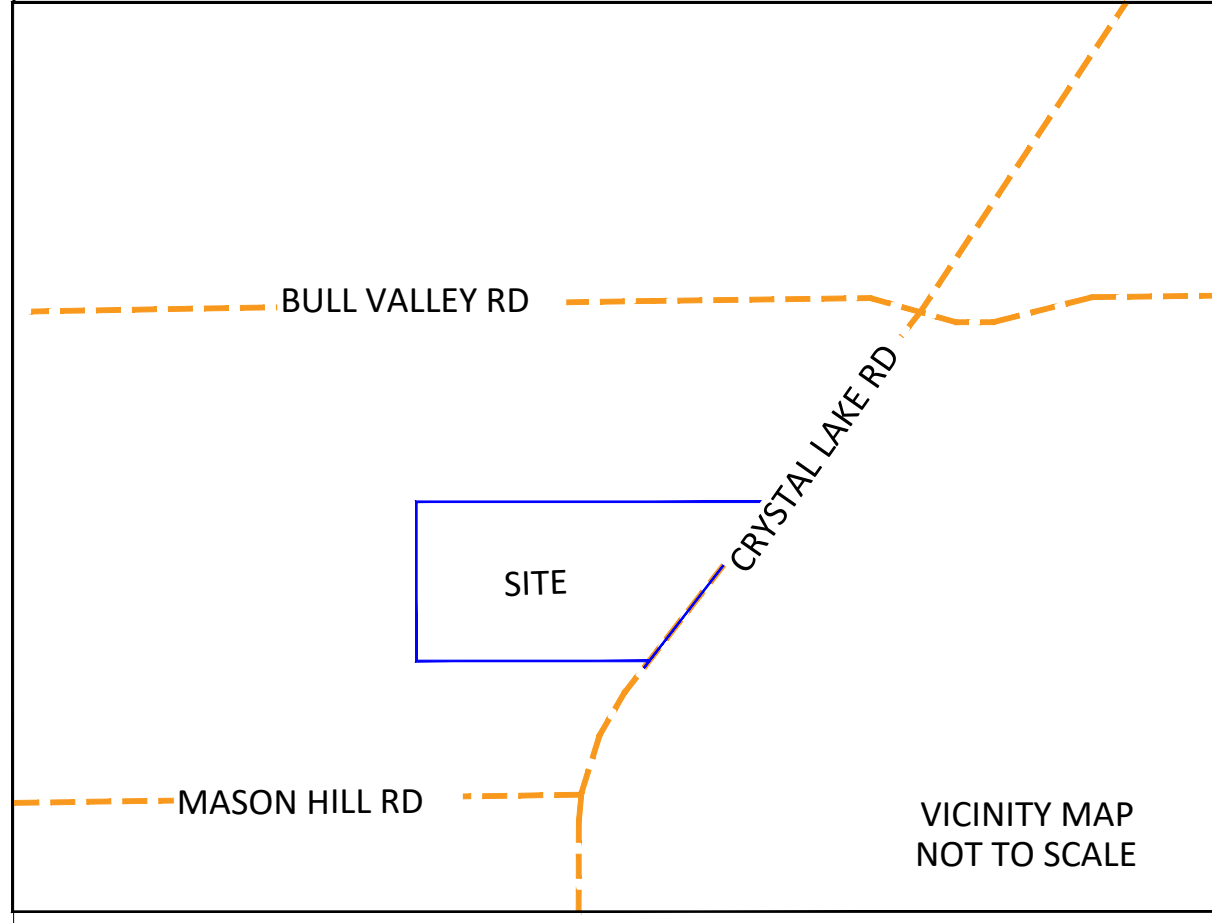
1 EXISTING GENERAL CONDITION PLAN
 SCALE: 1" = 250'

GENERAL NOTE

1. COMPARE ALL DISTANCE AND POINTS IN FIELD AND REPORT ANY DISCREPANCIES TO THE SURVEYOR.
2. UTILITY SHOWN HEREIN ARE BY VISIBLE LOCATION OF ABOVE GROUND STRUCTURES ONLY.
3. CALL 811 ("COMMON GROUND ALLIANCE" NATIONAL UNDERGROUND UTILITY LINES PRIOR TO ANY DIGGING OR CONSTRUCTION.
4. NO DIMENSION ASSUMED BY SCALING.
5. FOR MISSING OR SUBSTANDARD SECTION CORNER MONUMENTS SHOWN ON THIS SURVEY AND/OR CORNERS MISSING A CURRENT & COMPLETE MONUMENT RECORD.
6. ALL RIGHT-OF-WAY WIDTHS SHOWN HEREON ARE APPROXIMATE.

LEGEND

	PROPERTY LINE
	PARCEL LINE



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LEGENDS

	EXISTING PROPERTY LINE
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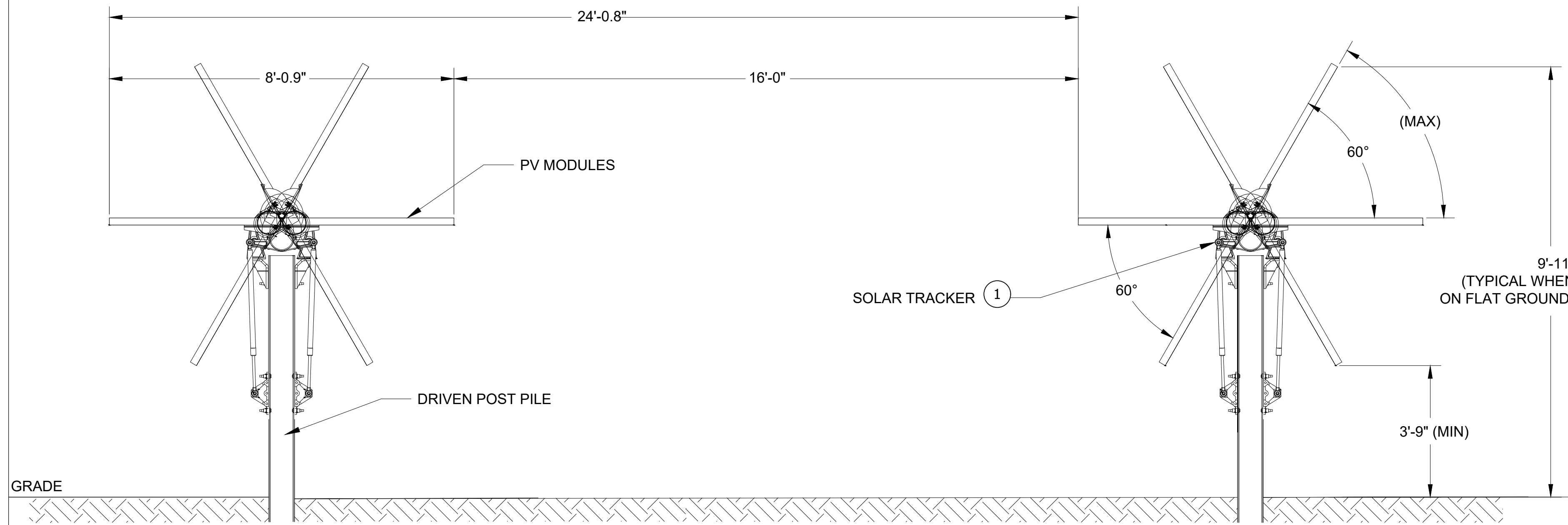
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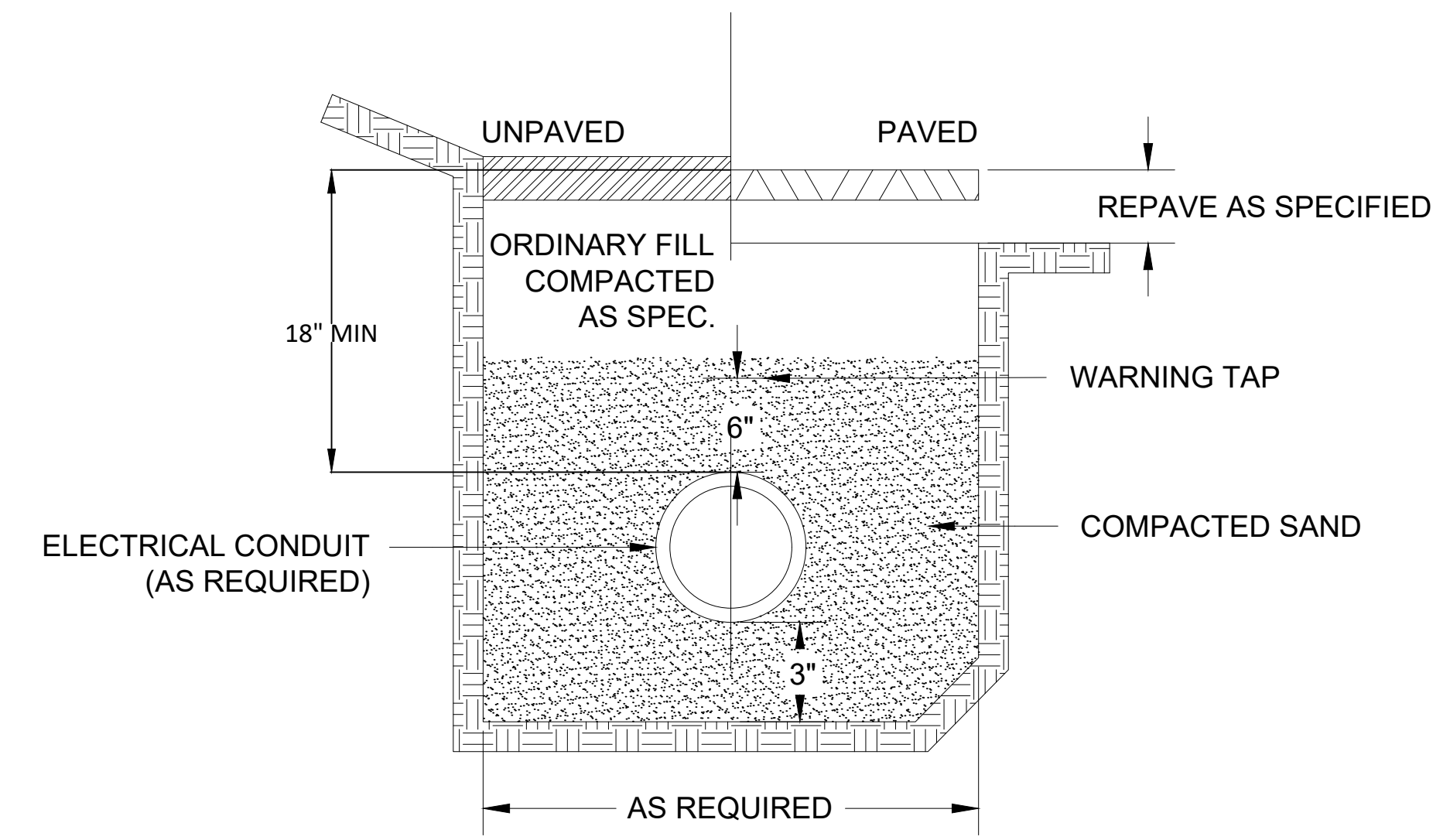
Drawing Title
EXISTING CONDITION
 ALTA AND TOPOGRAPHY SURVEY OF THE SITE

Project No 1104	Drawing No E-DEV.03-EC
Paper Size 36" x 24"	Sheet No. 03

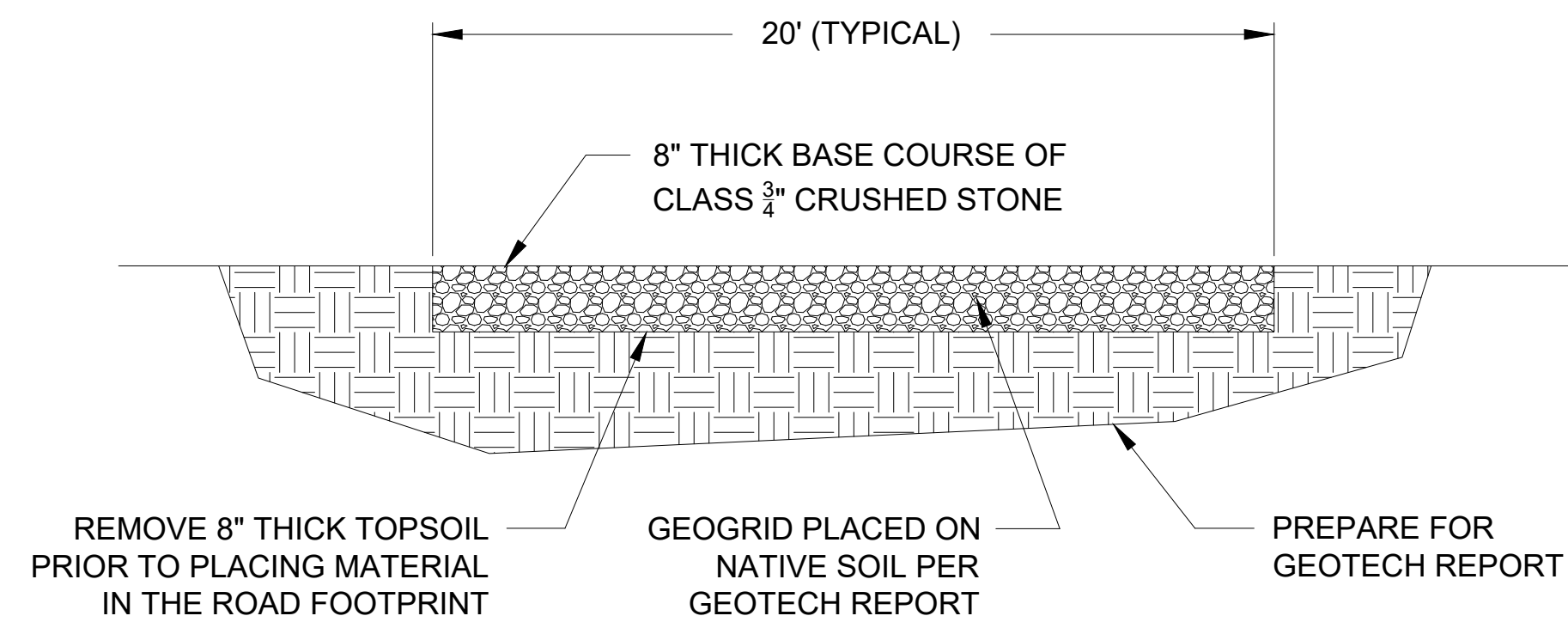
1 EXISTING CONDITION PLAN
 SCALE: 1" = 150'



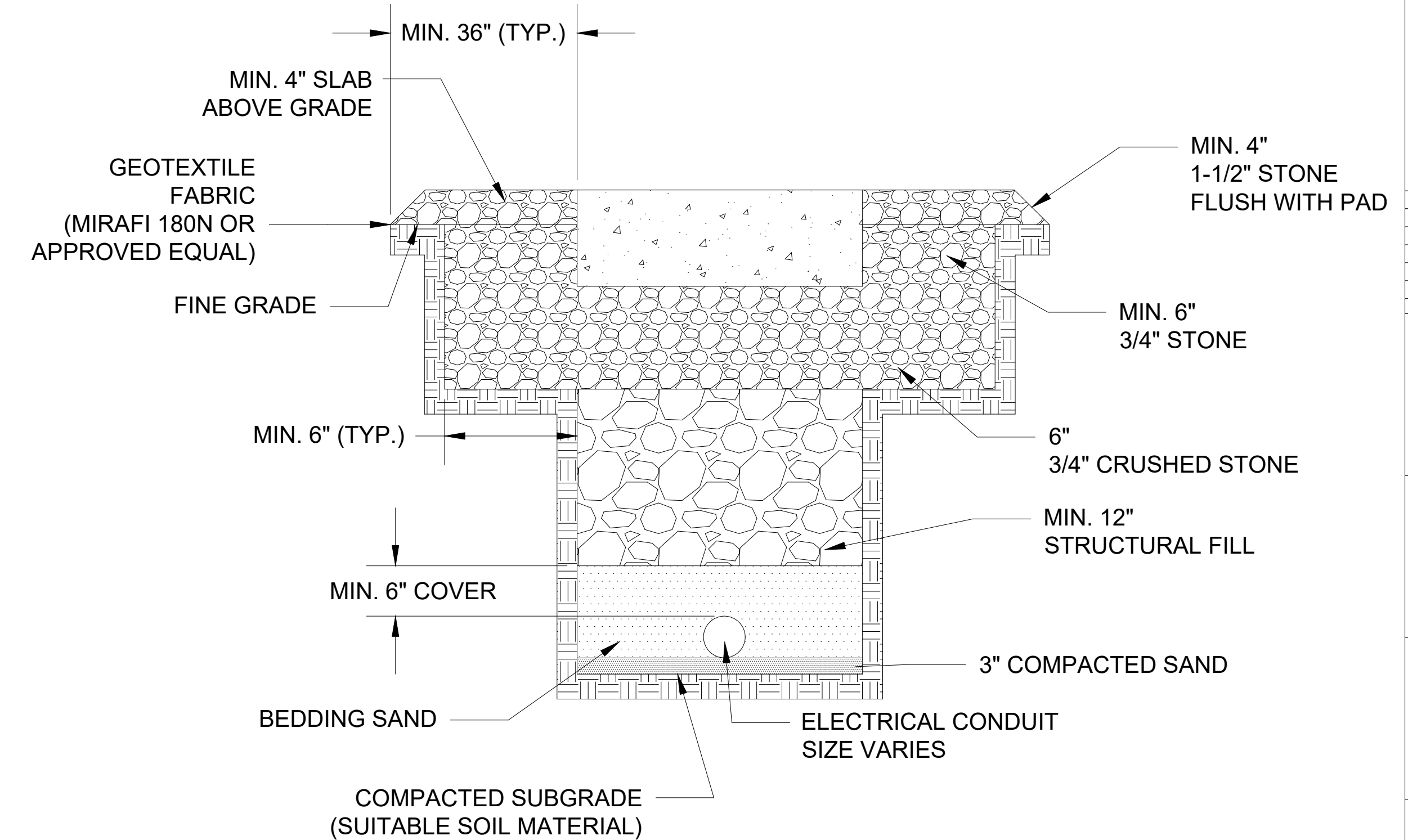
1 MECHANICAL SINGLE AXIS TRACKER RACKING STRUCTURE SYSTEM DETAIL: SCHEMATIC DESIGN
NOT TO SCALE



2 U.G.E. DIRECT BURIED ELECTRICAL CONDUIT TRENCH DETAIL
NOT TO SCALE



3 FIRE DEPARTMENT ACCESS ROAD DETAIL
NOT TO SCALE



5 SUBGRADE EQUIPMENT REINFORCED FOUNDATION DETAIL
NOT TO SCALE

SHEET NOTE

1. SINGLE AXIS TRACKER MECHANICAL RACKING SYSTEM BY AXIAL TRACKER, SEE MANUFACTURER DRAWINGS FOR ADDITIONAL INFORMATION.
2. STRUCTURE DIMENSIONS SHOWN ARE TYPICAL FOR FLAT GRADE. DIMENSIONS MAY VARY WHERE SLOPES EXIST.

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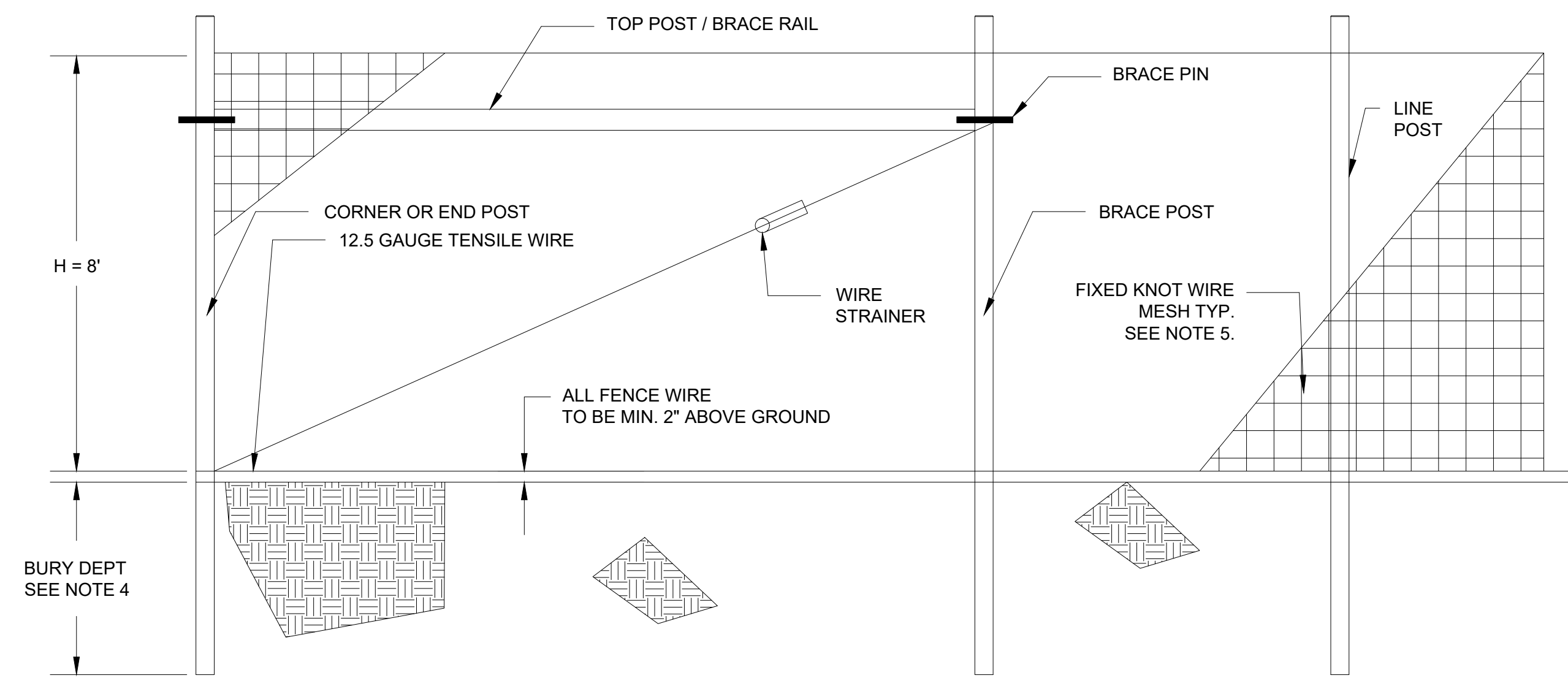
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Drawing Title
CONSTRUCTION DETAILS
 TYPICAL DETAILS, CUT SECTIONS & ELEVATIONS OF FIRE DEPARTMENT ACCESS ROAD, EQUIPMENT FOUNDATIONS, PV MECHANICAL TRACKER RACKING STRUCTURE SYSTEM, U.G.E. CONDUIT TRENCHING

Project No 1104	Drawing No E-DEV.05-CD
Paper Size 36" x 24"	Sheet No. 05

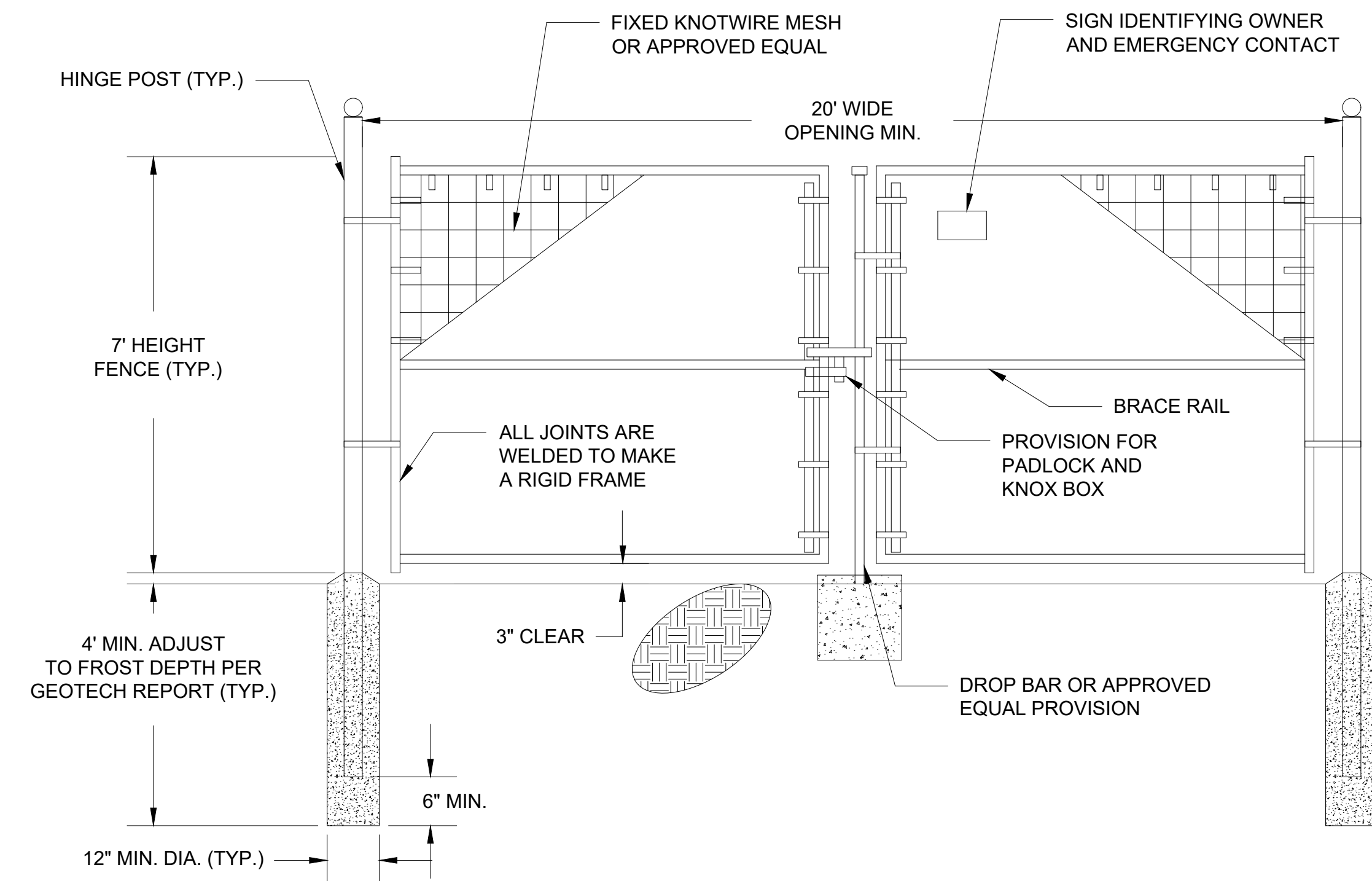
GENERAL NOTES:
 ADDITIONAL FENCING AND GATE DETAILS TO BE FURTHER REVIEWED BY McHENRY COUNTY OF RECORD AUTHORITY HAVING JURISDICTION DURING BUILDING PERMIT APPROVAL. THE FOLLOWING PLAN IS CONCEPTUAL, PRELIMINARY SCHEMATIC DESIGN AND IS SUBJECT TO CHANGE.



1 FIXED KNOT FARM FENCE DETAIL
 NOT TO SCALE

NOTES:

1. INSTALL ALL FENCING COMPONENTS PER MANUFACTURERS SPECIFICATIONS.
2. ALL FENCING AND HARDWARE SHALL BE GALVANIZED, UNLESS OTHERWISE NOTED.
3. ALL SQUARE POSTS TO BE MIN. 5"x5" NOMINAL SIZE OR ROUND POST WITH MIN. 5" OR 6" DIAMETER PRESSURE TREATED WOOD OR APPROVED EQUAL. PREFER POSTS TO HAVE A CHAMFERED TOP.
4. ALL LINE POST TO BE SET TO A MIN. DEPTH OF 4' BELOW GRADE, ALL CORNER, END OR GATE POSTS SHALL BE SET TO A MIN. DEPTH OF 6' BELOW GRADE, UNLESS OTHERWISE NOTES.
5. FIXED KNOT WIRE MESH TO BE BEKAERT SOLID LOCK® PRO, 12.5 GAUGE, CLASS 3 GLAVANIZED, 6" VERTICAL SPACING OR APPROVED EQUAL.
6. BRACING IS REQUIRED AT ALL CORNER, END AND GATE POSTS, DOUBLE BRACING (TWO BRACE ASSEMBLIES IN A ROW) SHOULD BE USED FOR STRAIGHT RUNS OF FENCE THAT EXCEED 1,000 LF. AN ADDITIONAL BRACE ASSEMBLY SHOULD BE INSTALLED MID SPAN FOR STRAIGHT RUNS OF FENCE THAT EXCEED 1,320 LF. ADDITIONAL BRACING MAY BE STILL BE REQUIRED OVER UNEVEN TERRAIN, CONTRACTOR SHALL INSTALL ADDITIONAL BRACING AS NEEDED IF DEFLECTION IS NOTICED DURING TENSIONING.



2 FIXED KNOT FARM FENCE 20' WIDE DOUBLE SWING GATE DETAIL
 NOT TO SCALE

NOTES:

1. INSTALL ALL FENCING COMPONENTS PER MANUFACTURER'S SPECIFICATIONS.
2. ALL FENCING AND HARDWARE SHALL BE GALVANIZED, UNLESS OTHERWISE NOTES.
3. HINGE POSTS MAY BE TIMBER IF CONTRACTOR DESIRES, TIMBER HINGE POSTS DO NOT NEED TO BE SET IN CONCRETE. UTILIZE HINGE THRU BOLTS TO CONNECT TO TIMBER HINGE POSTS OR LAG SCREWS, PER MANUFACTURERS RECOMMENDATIONS.
4. IF CONTRACTOR UTILIZES METAL HINGE POST THAN POSTS SHALL BE SET IN CONCRETE AS SHOWN IN DETAIL.
5. BRACING REQUIRED AT FOR ALL GATES. SEE FIXED KNOT FARM FENCE DETAIL.
6. FIXED KNOT WIRE MESH TO BE BEKAERT SOLIDLOCK® PRO, 12.5 GAUGE, CLASS 3 GLAVANIZED, 6" VERTICAL SPACING OR APPROVED EQUAL.
7. BRACE RAIL SHOWN FOR REFERENCE ADDITIONAL BRACE RAILS MAY BE REQUIRED (NOT SHOWN) OR TRUSS RODS MAY BE REQUIRED PER MANUFACTURER'S RECOMMENDATIONS.

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Drawing Title
FENCE DETAILS
 TYPICAL DETAILS, CUT SECTIONS & ELEVATION OF FENCING & DOUBLE SWING ACCESS GATE

Project No 1104	Drawing No E-DEV.06-FD
Paper Size 36" x 24"	Sheet No. 06

Q.TRON XL-G2 SERIES

610 - 635 Wp | 156 Cells
22.7% Maximum Module Efficiency



MODEL QTRON XL-G2.3/BFG



- High performance Qcells N-type solar cells**
QANTUM NEO Technology with optimized module layout boosts module efficiency up to 22.7%.
- Bifacial energy yield gain of up to 21%**
Bifacial QANTUM NEO solar cells make efficient use of light shining on the module rear-side for radically improved LCOE.
- A reliable investment**
Double glass module design enables extended lifetime with 12-year product warranty and improved 30-year performance warranty¹.
- Enduring high performance**
Long-term yield security with Anti-LatD and Anti-PID Technology², Hot Spot Protect.
- Frame for versatile mounting options**
High-tech aluminum alloy frame protects from damage, enables use of a wide range of mounting structures and is certified regarding IEC for high snow (5400 Pa) and wind loads (3750 mph³).
- Innovative all-weather technology**
Optimal yields, whatever the weather with excellent low-light and temperature behavior.

¹ See data sheet on our website for further information.
² Anti-PID test conditions according to IEC 61215-2:2016 (2016) method B1 (1500V, 18h) including post treatment according to IEC 61215-2:2016 (2016) method B1 (1500V, 18h).
³ See Installation Manual for instructions.

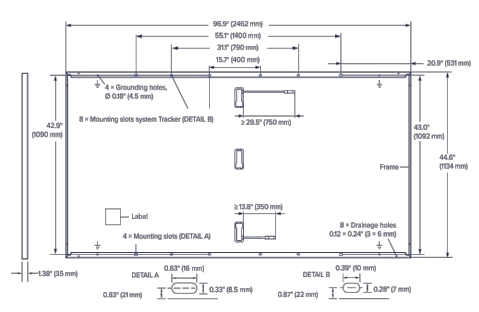
The ideal solution for:
Ground-mounted solar panels



Q.TRON XL-G2 SERIES

Mechanical Specification

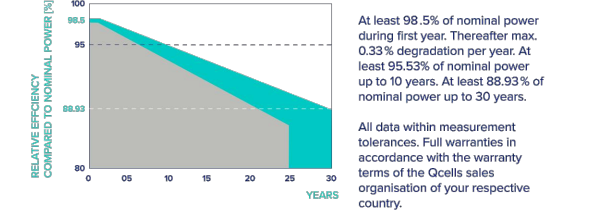
Format	96 in x 44.6 in x 1.38 in (including frame)
Weight	29.62 lb (13.44 kg)
Front Cover	0.08 in (2.0 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	0.08 in (2.0 mm) semi-tempered glass
Frame	Anodized aluminum
Cell	6 x 20 monocrystalline QANTUM NEO solar half cells
Junction box	2.09 x 3.38 x 1.26 in (53.0 x 85.9 x 32.0 mm) + 22.50 in x 15.50 in (571.5 x 393.7 mm)
Cable	4 mm ² Solar cable, (1) x 25.5 in (650 mm), (1) x 13.8 in (350 mm)
Connector	Substr. MCA-Evo2, Shaded MCA: P68



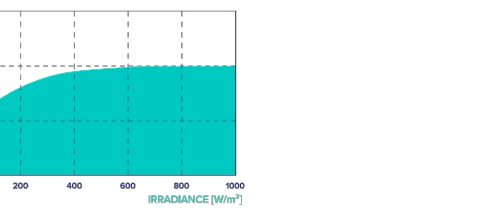
Electrical Characteristics

POWER CLASS	610	615	620	625	630	635
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC (POWER TOLERANCE ±0.5%/0.5%)						
Power at MPP ¹	481	478.4	476	473.6	471.2	468.8
Short Circuit Current ²	15.65	15.13	14.71	14.29	13.87	13.45
Open Circuit Voltage ³	56.78	56.34	55.90	55.46	55.02	54.58
Current at MPP	12.98	12.84	12.70	12.56	12.42	12.28
Voltage at MPP	47.70	47.09	46.48	45.87	45.26	44.65
Efficiency ⁴	22.8	22.7	22.6	22.5	22.4	22.3

Qcells PERFORMANCE WARRANTY



PERFORMANCE AT LOW IRRADIANCE



TEMPERATURE COEFFICIENTS

Temperature Coefficient of P_{max}	-0.41 %/K	Temperature Coefficient of V_{oc}	0.03 %/K
Temperature Coefficient of V_{mp}	-0.30 %/K	Nominal Module Operating Temperature	45°C (113°F)

Properties for System Design

Maximum System Voltage	1500 V	PV module classification	Class II
Maximum Series Fuse Rating	30 A	Fuse Rating based on ANSI/UL 6753	TYPE 22 ¹
Max. Pull Load ² , Test/Design	13 (5400 Pa) / 75 (3000 Pa)	Permitted Module Temperature	-40°F up to 185°F (-40°C up to 85°C)
Max. Pull Load ³ , Test/Design	78 (3750 Pa) / 152 (2500 Pa)		

Qualifications and Certificates



Qcells pursues minimizing paper output in consideration of the global environment.

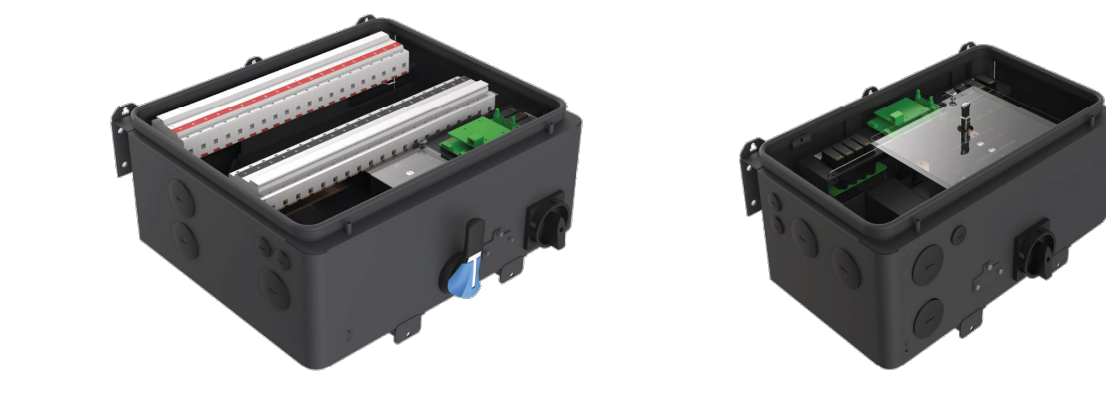
1 EQUIPMENT SPECIFICATION CUT SHEET DETAIL: PV MODULE 625 WATT (DC)
NOT TO SCALE

100/125kW, 1500Vdc String Inverters for North America



The 100 & 125kW 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 efficiency at 99.1% peak and 98.5% CEC, wide operating voltages, broad temperature ranges and a NEMA Type 4X enclosure enable this inverter platform to operate at high-performance across many applications. The CPS 100/125kW products ship with the Standard or Centralized Wire-box, each fully integrated and separable with AC and DC disconnect switches. The Standard Wire-box includes touch safe fusing for up to 20 strings. The CPS Flex Gateway enables communication, controls and remote product upgrades.

- NFPA 70, NEC 2014 and 2017 compliant
- Touch safe DC Fuse holders add convenience and safety
- CPS Flex Gateway enables remote FW upgrades
- Integrated AC & DC disconnect switches
- 1 MPPT with 20 fused inputs for maximum flexibility
- Copper and Aluminum compatible AC connections
- NEMA Type 4X outdoor rated, tough tested enclosure
- Advanced Smart-Grid features (CA Rule 21 certified)
- KVA Headroom yields 100kW @ 0.9PF and 125kW @ 0.95PF
- Generous 1.87 and 1.5 DC/AC Inverter Load Ratios
- Separable wire-box design for fast service
- Standard 5 year warranty with extensions to 20 years



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Tel: 855-584-7168 Mail: AmericaSales@invt.com Web: www.invt.com
Chert Power Systems America
6800 Koll Center Parkway, Suite 233 Pleasanton, CA 94566

Technical Data

Model Name	CPS SCH100KTL-DO/US-600	CPS SCH125KTL-DO/US-600
DC Input		
Max. PV Power	187.5kW	1500V
Max. DC Input Voltage	1500V	
Operating DC Input Voltage Range	800-1500Vdc	
Start-up DC Input Voltage / Power	900V / 250W	
Number of MPPT Trackers	1	
MPPT Voltage Range ¹	870-1300Vdc	
Max. PV Input Current (ac x1.25)	275A	
Number of DC Inputs	20 PV source circuits, pos. & neg. fused (Standard Wire-box) 1 PV input circuit, 12 terminals per pole, not fused (Centralized Wire-box)	
DC Disconnection Type	Load-rated DC switch	
DC Surge Protection	Type II MOV (with indicator/remote signaling), Up=2.5kV, In=20kA (3000s)	
AC Output		
Rated AC Output Power	100kW	125kW
Max. AC Output Power ²	100kVA (111kVA @ PF=0.9)	125kVA (132kVA @ PF=0.95)
Rated Output Voltage	600Vdc	
Output Voltage Range ³	528-680Vdc	
Grid Connection Type ⁴	3Ø / PE / N (Neutral optional)	
Max. AC Output Current (600Vdc)	96.2/108.8A	120.3/127.2A
Rated Output Frequency	60Hz	
Output Frequency Range ⁵	57-63Hz	
Power Factor	+0.99 (±0.8 adjustable)	+0.99 (±0.8 adjustable)
Current THD	<3%	
Max. Fault Current Contribution (1 cycle RMS)	150A	175A
Max. OCPO Rating		175A
AC Disconnection Type	Load-rated AC switch	
AC Surge Protection	Type II MOV (with indicator/remote signaling), Up=2.5kV, In=20kA (3000s)	
System		
Topology		Transformerless
Max. Efficiency		99.1%
CEC Efficiency		98.5%
Stand-by / Night Consumption		<4W
Enclosure Protection Degree		NEMA Type 4X
Cooling Method		Variable speed cooling fans
Operating Temperature Range		-22°F to +147°F / -30°C to +105°C (depending from +113°F / +45°C)
Non-Operating Temperature Range ⁶		-40°F to +158°F / -40°C to +70°C maximum
Operating Humidity		0-100%
Operating Altitude		8200ft (2500m) (by derating)
Audible Noise		<65dBA@1m and 25°C
Display and Communication		LED Indicators, WiFi + APP
User Interface and Display		Modbus RS485
Inverter Mounting		CPS Flex Gateway (1 per 20 inverters)
Site Level Monitoring		SurfSpec-CPS
Remote Data Mapping		Standard (with Flex Gateway)
Remote Diagnostics / FW Upgrade Functions		Standard (with Flex Gateway)
Mechanical		
Dimensions (WxHxD)	45.28x24.25x8.64in (1150x616x250mm) with Standard Wire-box	39.37x24.25x8.64in (1000x616x250mm) with Centralized Wire-box
Weight	Inverter: 121lbs / 55kg; Wire-box: 259lb / 117kg (Standard Wire-box); 238lb / 108kg (Centralized Wire-box)	
Mounting / Installation Angle		15 - 90 degrees from horizontal (vertical or angled)
AC Termination		M10 Stud Type Terminal Block (#4) (Wire range: 10AWG - 500kcmil CU/AL, Lugs not supplied) Screw Clamp Terminal Block (#12 - 1000kcmil CU/AL)
DC Termination		Screw Clamp Fuse Holder (Wire range: #12 - #6AWG CU) - Standard Wire-box Busbar, MB PEMterminals (Wire range: #1AWG - 250kcmil CU/AL, Lugs not supplied) - Centralized Wire-box
Fused String Inputs		15A or 20A fuses provided (Determined by product SKU)
Safety		
Safety and EMC Standard	UL1741-SA-2016, CSA-C22.2 NO.107.1-01, IEEE1674-2014; FCC PART15	
Selectable Grid Standard		IEEE1674-2014, CA Rule 21, ISO146
Smart-Grid Features		Volt Ride-Thru, Freq Ride-Thru, Ramp-Rate, Specified PF, Volt-VAr, Freq-Watt, Volt-Watt
Warranty		5 years Standard / Extended Terms 10, 15 and 20 years

¹ See user manual for further information regarding MPPT Voltage Range when operating at non unity PF.
² Max. AC Output Power² rating with 100% MPPT voltage range and temperature range of 40°C to +105°C (-22°F to +158°F) for 100kW PF 0.9 and 125kW PF 0.95.
³ Max. AC Output Voltage Range³ rating with 100% MPPT voltage range and temperature range of 40°C to +105°C (-22°F to +158°F) for 100kW PF 0.9 and 125kW PF 0.95.
⁴ If you require a different grid connection, please contact your local distributor.
⁵ See user manual for further information regarding MPPT Voltage Range when operating at non unity PF.
⁶ If you require a different grid connection, please contact your local distributor.
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Project Name & Address
MCHENRY SOLAR FARM LLC
1201 CRYSTAL LAKE RD S.
MCHENRY, IL 60140
MCHENRY
P.I.N. 14-09-100-001 (PARTIAL) & 14-09-100-002 (PARTIAL)

EQUIPMENT SPECIFICATION

TYPICAL DETAILS, CUT SHEETS & SPECIFICATIONS OF PV MODULE & STRING INVERTER EQUIPMENT

Project No	1104	Drawing No	E-DEV.07-ES
Paper Size	36" x 24"	Sheet No.	07

2 EQUIPMENT SPECIFICATION CUT SHEET DETAIL: STRING INVERTER 125 KWATT (DC)
NOT TO SCALE