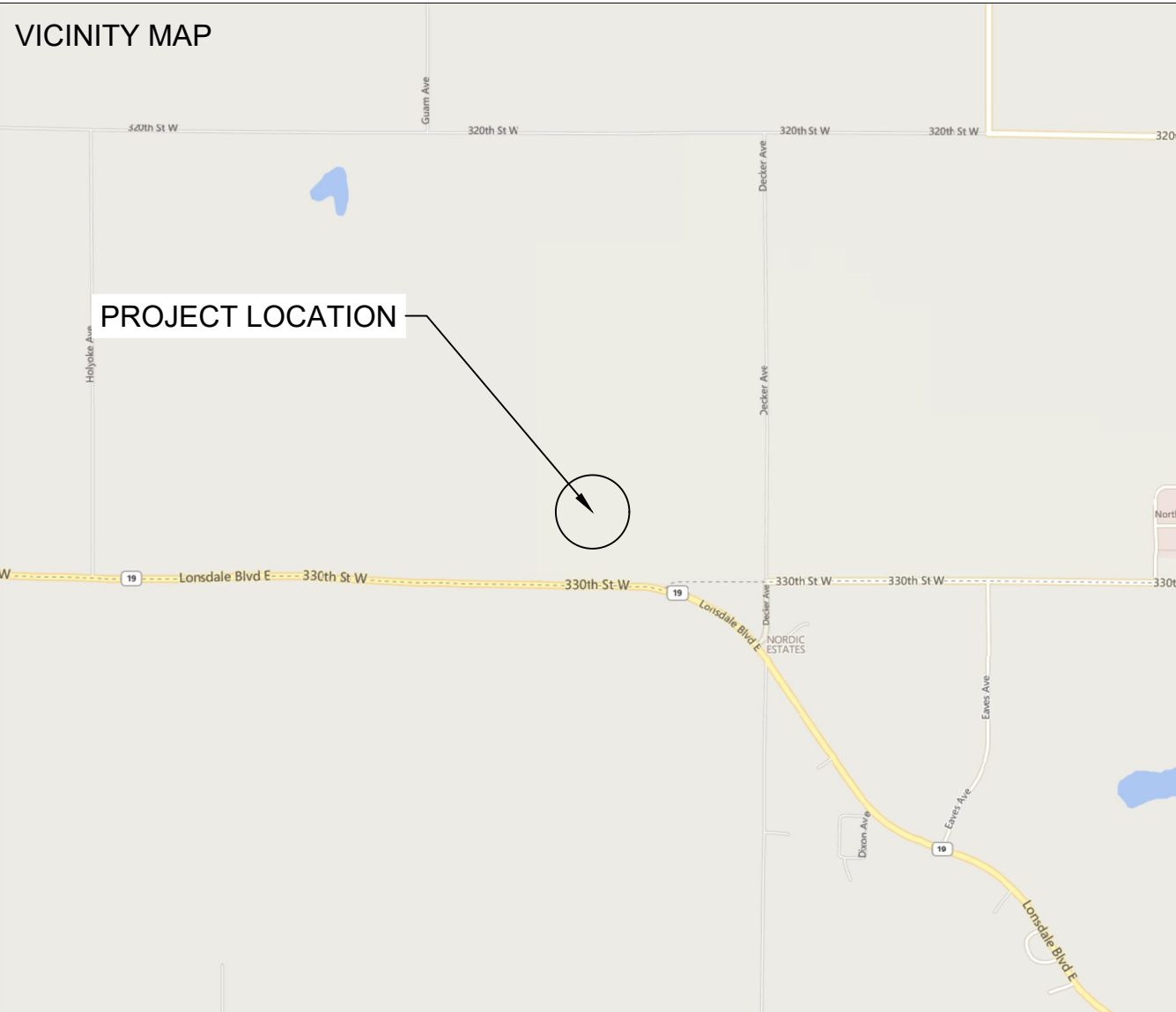
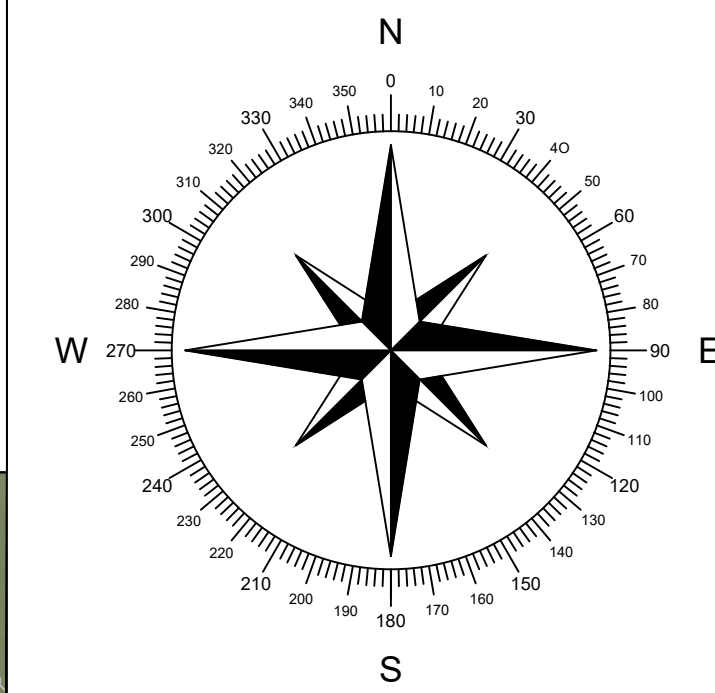


## VICINITY MAP



SPACE FOR PE STAMP:



## SHEET NOTES:

UTILITY POLES ARE SHOWN FOR INDICATING LOCATIONS ONLY. SPACING BETWEEN POLES, PHYSICAL PROTECTION BARRIER FOR SWITCHBOARDS, ETC. WILL BE ADDED IN THE DRAWINGS PREPARED FOR THE CONSTRUCTION DOCUMENTS



NEW ENERGY EQUITY, LLC  
2530 RIVA ROAD, SUITE 200  
ANNAPOLIS, MD 21041  
NEWENERGYEQUITY.COM  
443-267-5012

PROJECT ADDRESS  
3869-3899 MN-19  
NORTHFIELD, MN 55057

LAT: 44.4737619461  
LONG: -93.2188576538

## SYSTEM SPECIFICATIONS

|                   |                     |
|-------------------|---------------------|
| SYSTEM SIZE DC    | 1.454 MW            |
| SYSTEM SIZE AC    | 1.000 MW            |
| DC/AC RATIO       | 1.454               |
| AZIMUTH           | 180°                |
| TILT              | +/- 52°             |
| MODULE COUNT      | 3825                |
| MODULE TYPE       | REC 380TP2SM 72     |
| MODULE STC RATING | 380 W               |
| INVERTER COUNT    | 8                   |
| INVERTER TYPE     | CPS SCA125KTL-DO/US |
| INVERTER POWER    | 125kW               |
| RACKING           | TBD                 |
| MONITORING        | ALSO ENERGY         |

## DESIGN CRITERIA

|                        |              |
|------------------------|--------------|
| MIN/MAX TEMP           | -29°C / 31°C |
| WIND SPEED (ASCE 7-10) | 105 MPH      |
| BUILDING CATEGORY      | I            |
| EXPOSURE CATEGORY      | C            |
| GROUND SNOW LOAD       | 50 PSF       |
| BUILDING HEIGHT        | 0'-0"        |

## OTHER NOTES

CASE NUMBER 04124406

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 PROVIDED TO ALL XCEL ENERGY EQUIPMENT INCLUDING THE METERS AND AC DISCONNECT.

INTERCONNECTION TYPE: SECONDARY

PROJECT OWNER: MN CSG 2019-77 LLC

## REVISIONS

| # | DESCRIPTION               | BY  | DATE       |
|---|---------------------------|-----|------------|
| 0 | ORIGINAL DESIGN           | SPC | 10/14/2020 |
| 1 | SITE PLAN                 | MPH | 10/20/2020 |
| 2 | UPDATE WITH XCEL COMMENTS | MPH | 11/4/2020  |
| 3 | CUP PACKAGE               | JAT | 1/18/2021  |
| 4 |                           |     |            |
| 5 |                           |     |            |
| 6 |                           |     |            |
| 7 |                           |     |            |

DRAWN BY

JOSE TAVARES

PROJECT NAME

DEVNEY CSG

DRAWING TITLE

SITE PLAN

SCALE <sup>1</sup>

1" = 80'

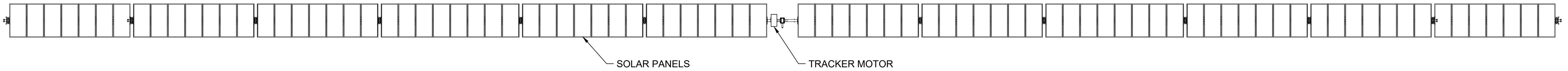


SHEET

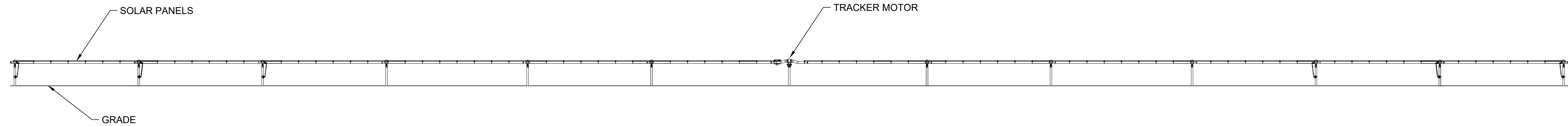
PV1

<sup>1</sup> DRAWING SCALE ACCURATE WHEN THIS PAGE IS PRINTED ON 24"x36" PAPER.

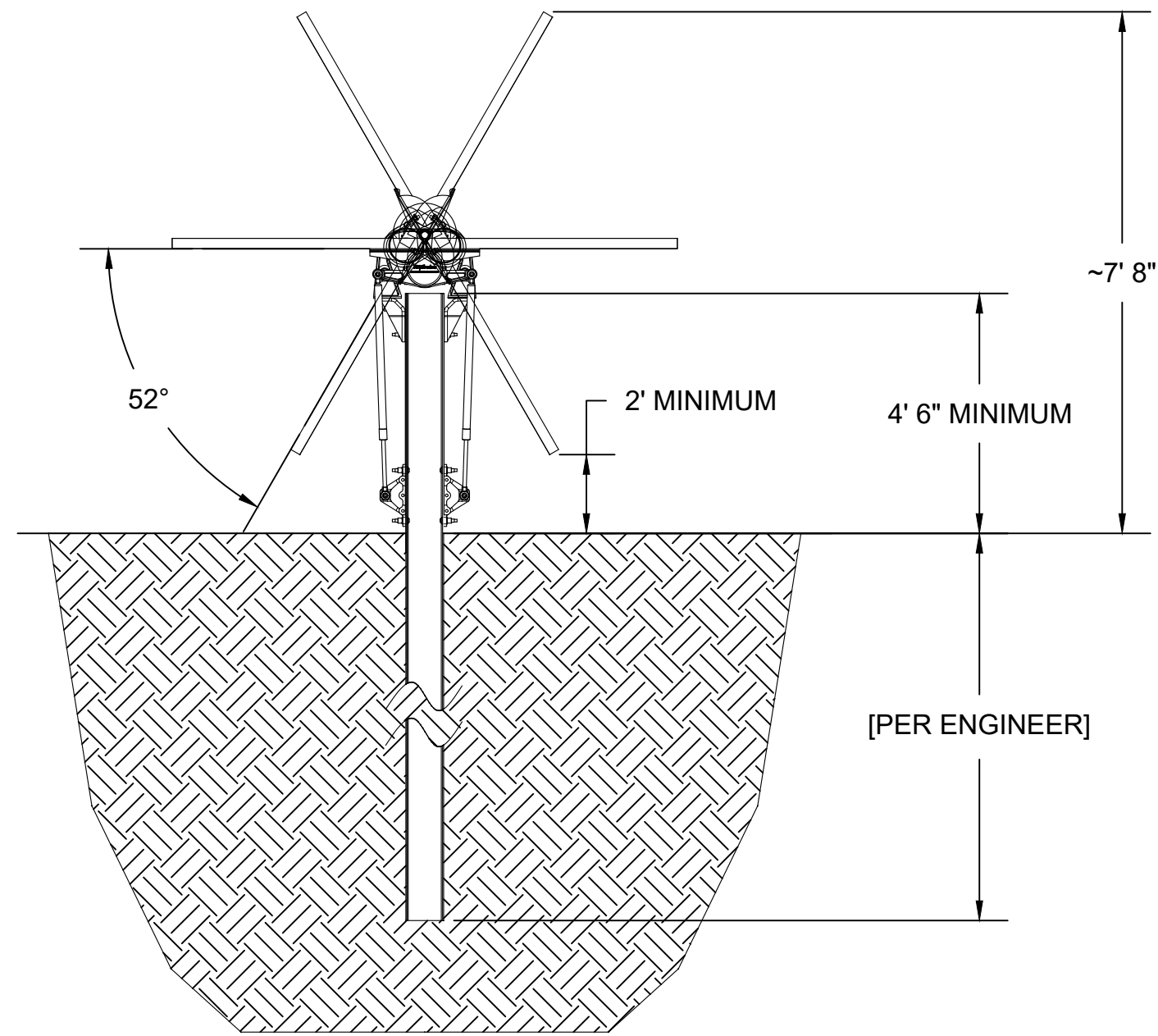




1 SINGLE AXIS TRACKER TOP DOWN VIEW  
NTS



2 SINGLE AXIS TRACKER EAST-WEST ELEVATION  
NTS



3 SINGLE AXIS TRACKER NORTH-SOUTH ELEVATION  
NTS



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LAT: 44.4737619461  
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#### SYSTEM SPECIFICATIONS

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| SYSTEM SIZE AC    | 1.000 MW            |
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| AZIMUTH           | 180°                |
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| MODULE COUNT      | 3825                |
| MODULE TYPE       | REC 380TP2SM 72     |
| MODULE STC RATING | 380 W               |
| INVERTER COUNT    | 8                   |
| INVERTER TYPE     | CPS SCA125KTL-DO/US |
| INVERTER POWER    | 125kW               |
| RACKING           | TBD                 |
| MONITORING        | ALSO ENERGY         |

#### DESIGN CRITERIA

|                        |              |
|------------------------|--------------|
| MIN/MAX TEMP.          | -29°C / 31°C |
| WIND SPEED (ASCE 7-10) | 105 MPH      |
| BUILDING CATEGORY      | I            |
| EXPOSURE CATEGORY      | C            |
| GROUND SNOW LOAD       | 50 PSF       |
| BUILDING HEIGHT        | 0'-0"        |

#### OTHER NOTES

CASE NUMBER 04124406

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ISSUES WITH OVERHEAD ELECTRIC  
SERVICE LINES OR OTHER UTILITIES IN  
RELATION TO THE PV PANELS.

24/7 UNESCORTED KEYLESS ACCESS  
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EQUIPMENT INCLUDING THE METERS AND  
AC DISCONNECT.

INTERCONNECTION TYPE: SECONDARY

PROJECT OWNER: MN CSG 2019-77 LLC

#### REVISIONS

| # | DESCRIPTION               | BY  | DATE       |
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| 4 |                           |     |            |
| 5 |                           |     |            |
| 6 |                           |     |            |
| 7 |                           |     |            |

#### DRAWN BY

JOSE TAVARES

#### PROJECT NAME

DEVNEY CSG

#### DRAWING TITLE

SAT RACKING DETAIL

#### SCALE <sup>1</sup>

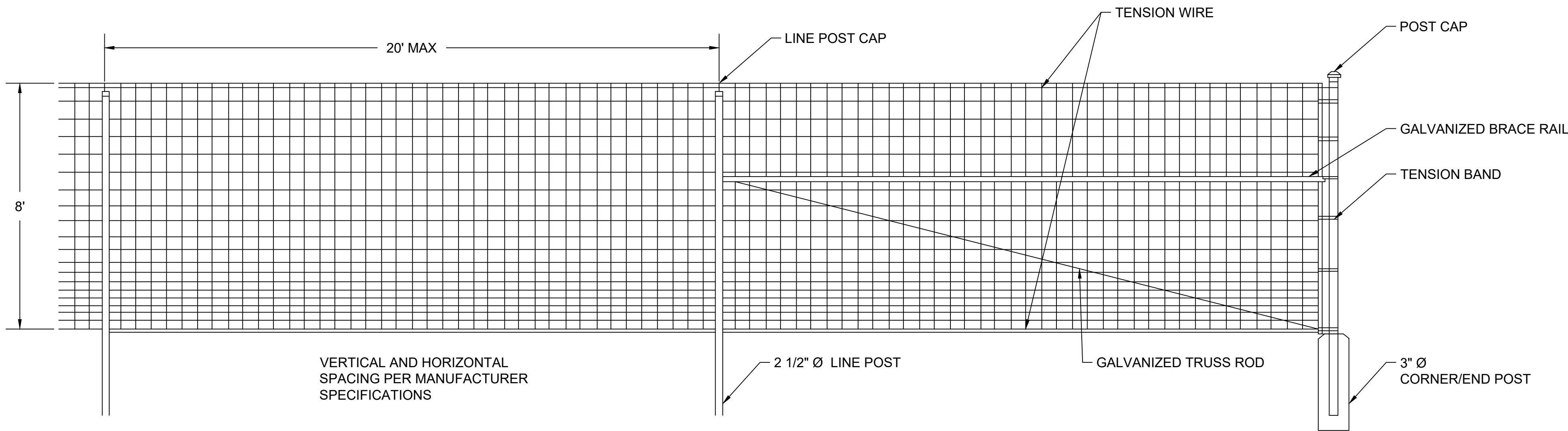
NTS

0 1" 2"

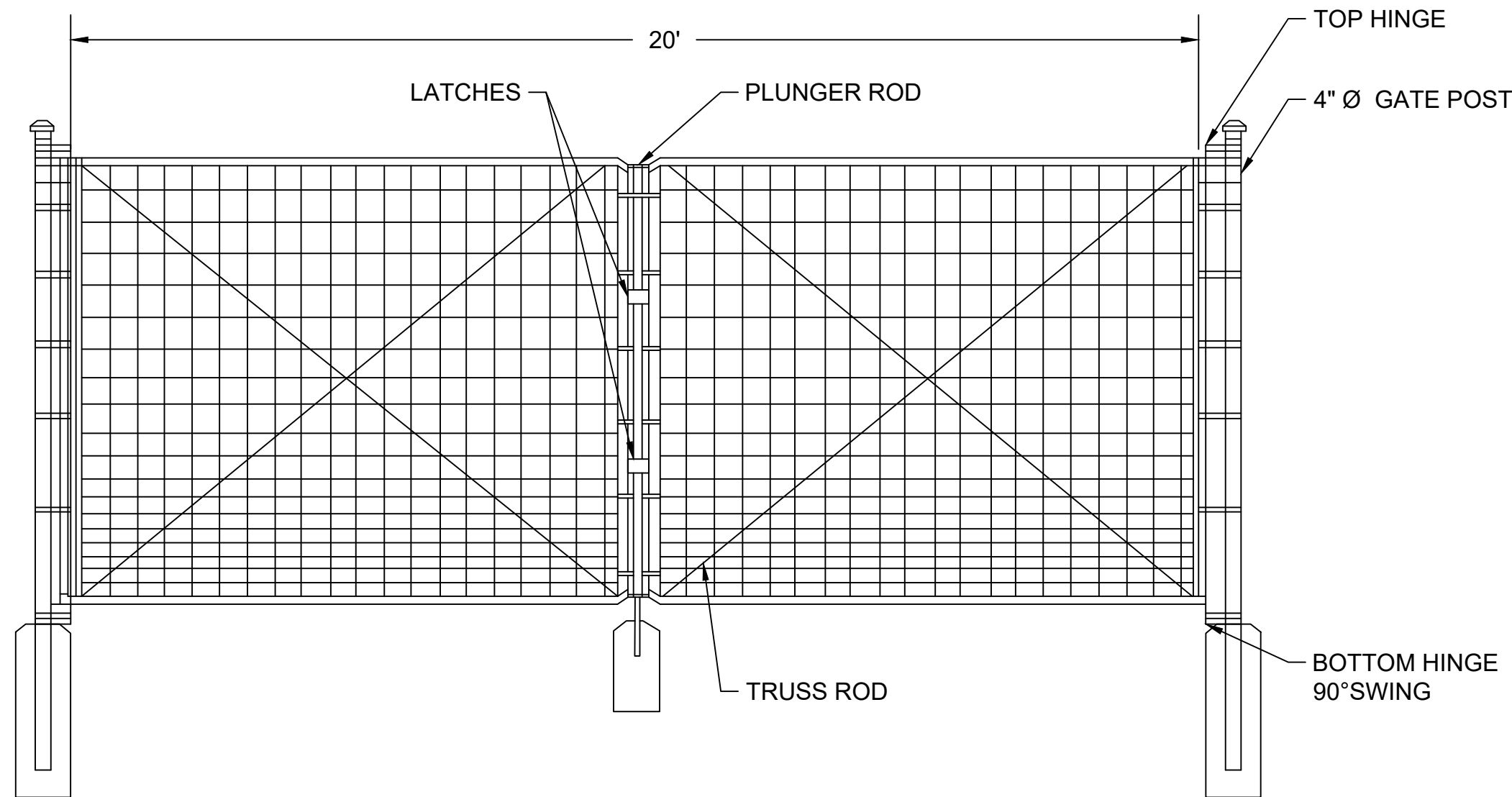
#### SHEET

PV2

<sup>1</sup> DRAWING SCALE ACCURATE WHEN THIS PAGE IS PRINTED ON 24"x36" PAPER.



1 8' FIXED KNOT FENCE  
NTS



2 8' FIXED KNOT FENCE GATE  
NTS

NOTE:  
1. THIS DRAWING IS FOR INFORMATIONAL PURPOSES ONLY  
AND NOT TO BE USED FOR CONTRUCTION.  
2. DO NOT SCALE DRAWING



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LAT: 44.4737619461  
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#### SYSTEM SPECIFICATIONS

|                   |                     |
|-------------------|---------------------|
| SYSTEM SIZE DC    | 1.454 MW            |
| SYSTEM SIZE AC    | 1.000 MW            |
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| AZIMUTH           | 180°                |
| TILT              | +/- 52°             |
| MODULE COUNT      | 3825                |
| MODULE TYPE       | REC 380TP2SM 72     |
| MODULE STC RATING | 380 W               |
| INVERTER COUNT    | 8                   |
| INVERTER TYPE     | CPS SCA125KTL-DO/US |
| INVERTER POWER    | 125kW               |
| RACKING           | TBD                 |
| MONITORING        | ALSO ENERGY         |

#### DESIGN CRITERIA

|                        |              |
|------------------------|--------------|
| MIN/MAX TEMP.          | -29°C / 31°C |
| WIND SPEED (ASCE 7-10) | 105 MPH      |
| BUILDING CATEGORY      | I            |
| EXPOSURE CATEGORY      | C            |
| GROUND SNOW LOAD       | 50 PSF       |
| BUILDING HEIGHT        | 0'-0"        |

#### OTHER NOTES

CASE NUMBER 04124406

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INTERCONNECTION TYPE: SECONDARY

PROJECT OWNER: MN CSG 2019-77 LLC

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| 5 |                           |     |            |
| 6 |                           |     |            |
| 7 |                           |     |            |

#### DRAWN BY

JOSE TAVARES

#### PROJECT NAME

DEVNEY CSG

#### DRAWING TITLE

FENCE DETAIL

#### SCALE <sup>1</sup>

NTS

0 1" 2"

#### SHEET

PV3

SYSTEM SPECIFICATIONS

|                   |                     |
|-------------------|---------------------|
| SYSTEM SIZE DC    | 1.454 MW            |
| SYSTEM SIZE AC    | 1.000 MW            |
| DC/AC RATIO       | 1.454               |
| AZIMUTH           | 180°                |
| TILT              | +/- 52°             |
| MODULE COUNT      | 3825                |
| MODULE TYPE       | REC 380TP2SM 72     |
| MODULE STC RATING | 380 W               |
| INVERTER COUNT    | 8                   |
| INVERTER TYPE     | CPS SCA125KTL-DO/US |
| INVERTER POWER    | 125kW               |
| RACKING           | TBD                 |
| MONITORING        | ALSO ENERGY         |

DESIGN CRITERIA

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CASE NUMBER 04124406

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| 5 |                           |     |            |
| 6 |                           |     |            |
| 7 |                           |     |            |

DRAWN BY

JOSE TAVARES

PROJECT NAME

DEVNEY CSG

DRAWING TITLE

INFILTRATION BASIN DETAIL

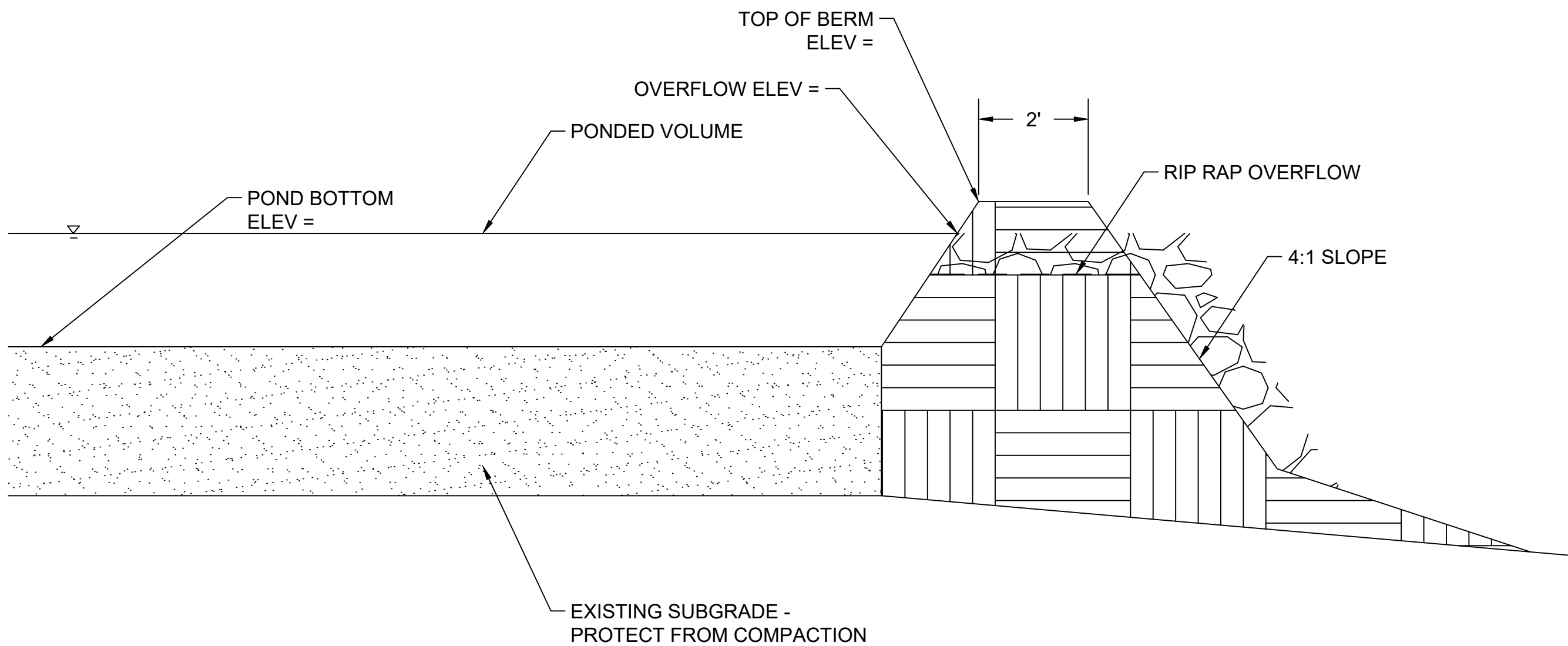
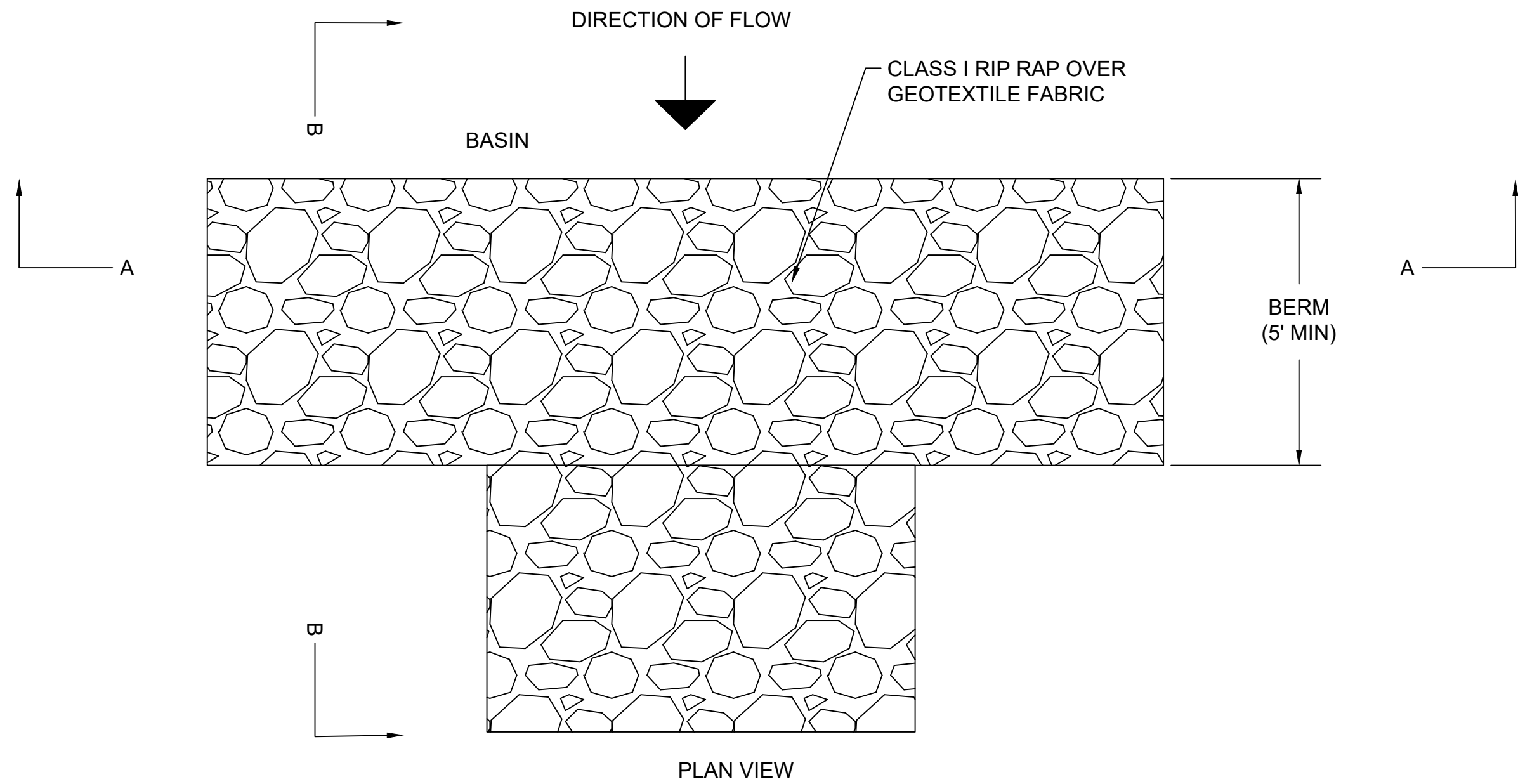
SCALE<sup>1</sup>

NTS

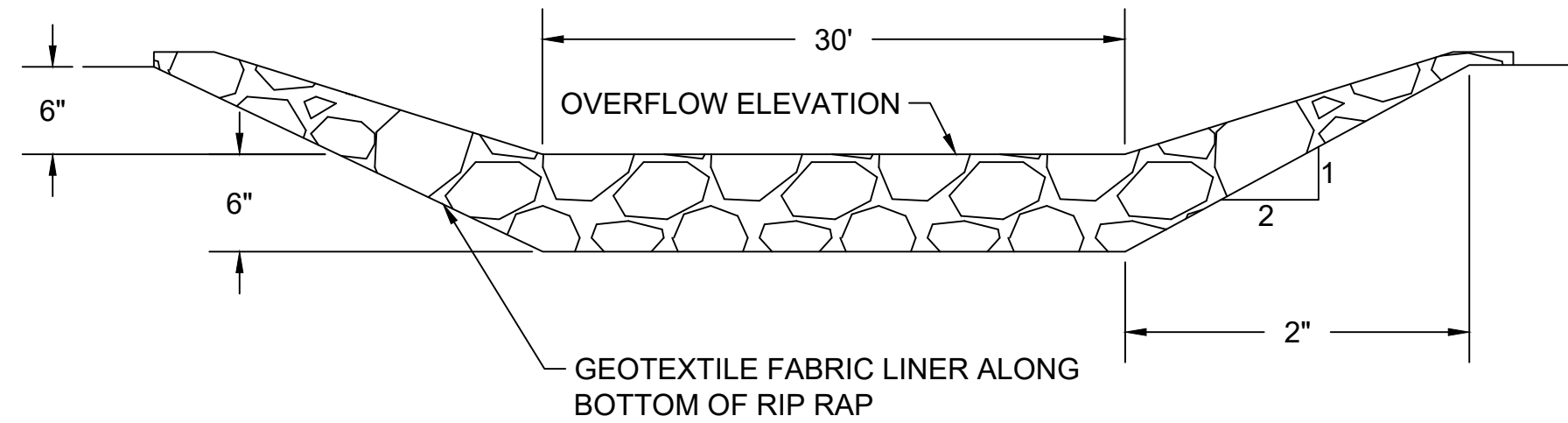
0 1" 2"

SHEET

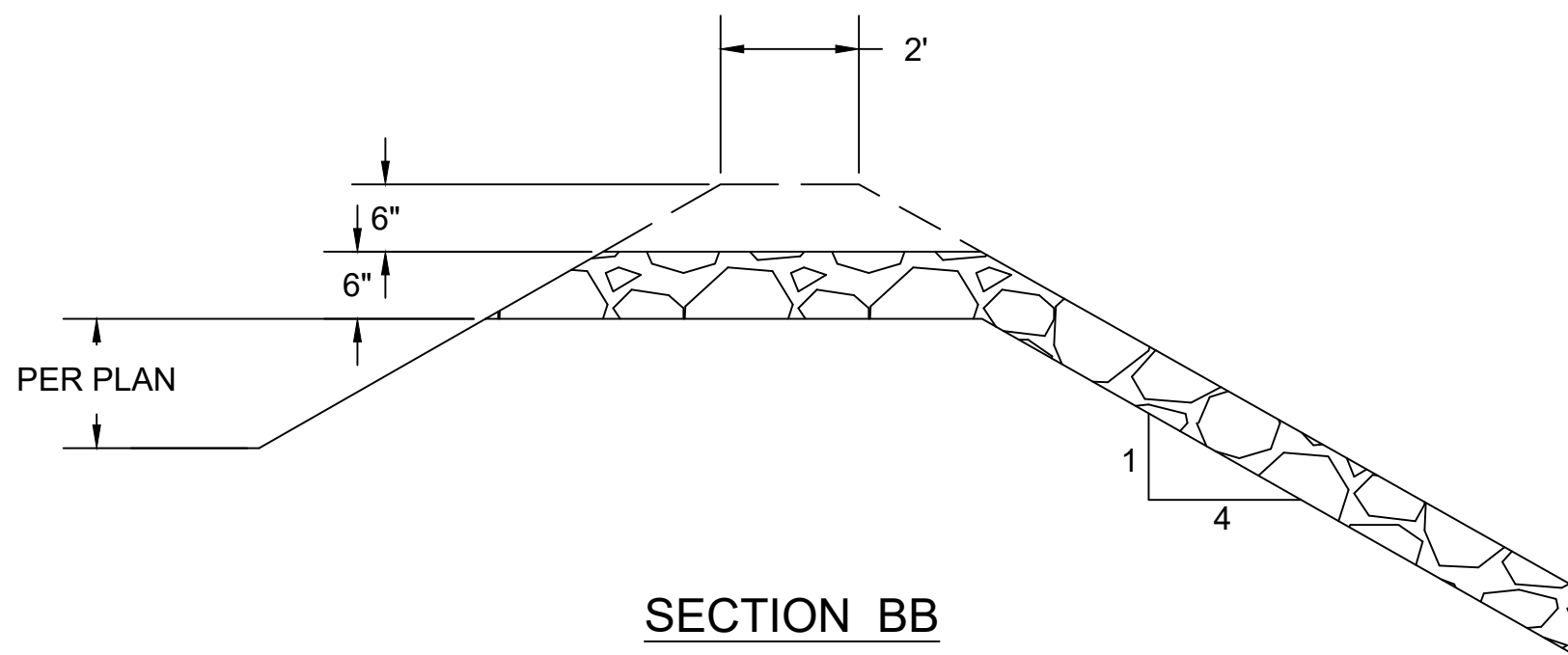
PV4



1 INFILTRATION BASIN  
NTS



SECTION AA



SECTION BB

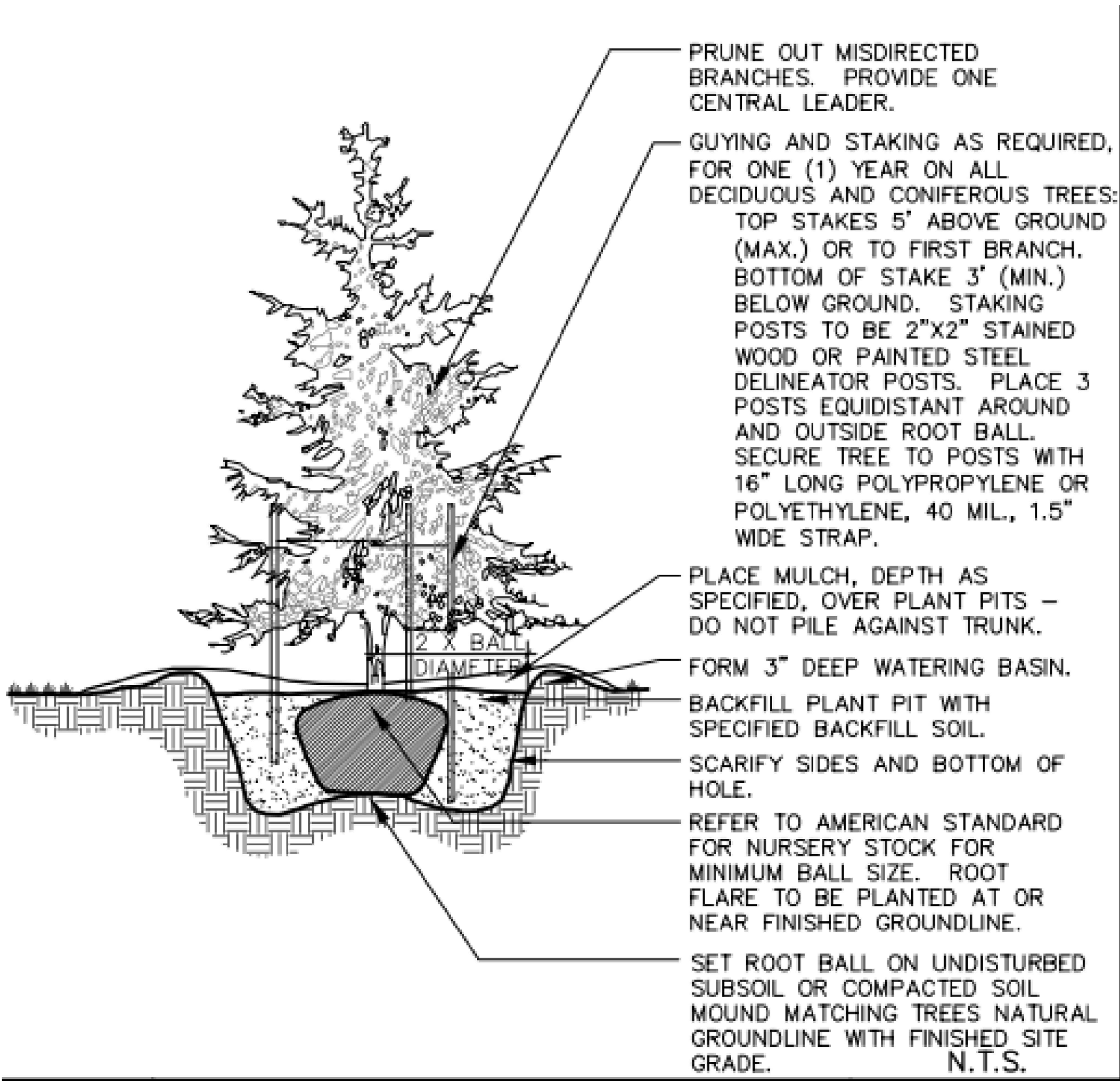
2 RIP RAP OVERFLOW  
NTS





1 BLACK HILLS SPRUCE SCREENING

Scale: N.T.S.



2 EVERGREEN PLANTING DETAIL

Scale: N.T.S.

PLANTING SCHEDULE

TYPE : BLACK HILLS SPRUCE

HEIGHT : 6' MIN WITHIN 3 YEARS OF PLANTING

NUMBER OF ROWS: 1

SPACING: 16' O.C.



3 PLAN VIEW

Scale: N.T.S.



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LAT: 44.4737619461  
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SYSTEM SPECIFICATIONS

|                   |                     |
|-------------------|---------------------|
| SYSTEM SIZE DC    | 1.454 MW            |
| SYSTEM SIZE AC    | 1.000 MW            |
| DC/AC RATIO       | 1.454               |
| AZIMUTH           | 180°                |
| TILT              | +/- 52°             |
| MODULE COUNT      | 3825                |
| MODULE TYPE       | REC 380TP2SM 72     |
| MODULE STC RATING | 380 W               |
| INVERTER COUNT    | 8                   |
| INVERTER TYPE     | CPS SCA125KTL-DO/US |
| INVERTER POWER    | 125kW               |
| RACKING           | TBD                 |
| MONITORING        | ALSO ENERGY         |

DESIGN CRITERIA

|                        |              |
|------------------------|--------------|
| MIN/MAX TEMP.          | -29°C / 31°C |
| WIND SPEED (ASCE 7-10) | 105 MPH      |
| BUILDING CATEGORY      | I            |
| EXPOSURE CATEGORY      | C            |
| GROUND SNOW LOAD       | 50 PSF       |
| BUILDING HEIGHT        | 0'-0"        |

OTHER NOTES

CASE NUMBER 04124406

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24/7 UNESCORTED KEYLESS ACCESS PROVIDED TO ALL XCEL ENERGY EQUIPMENT INCLUDING THE METERS AND AC DISCONNECT.

INTERCONNECTION TYPE: SECONDARY

PROJECT OWNER: MN CSG 2019-77 LLC

REVISIONS

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| 0 | ORIGINAL DESIGN           | SPC | 10/14/2020 |
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| 4 |                           |     |            |
| 5 |                           |     |            |
| 6 |                           |     |            |
| 7 |                           |     |            |

DRAWN BY

JOSE TAVARES

PROJECT NAME

DEVNEY CSG

DRAWING TITLE

TREE PLAN

SCALE<sup>1</sup>

NTS

0 1" 2"

SHEET

PV5

<sup>1</sup> DRAWING SCALE ACCURATE WHEN THIS PAGE IS PRINTED ON 24"x36" PAPER.



SYSTEM SPECIFICATIONS

|                   |                     |
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| SYSTEM SIZE AC    | 1.000 MW            |
| DC/AC RATIO       | 1.454               |
| AZIMUTH           | 180°                |
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| MODULE COUNT      | 3825                |
| MODULE TYPE       | REC 380TP2SM 72     |
| MODULE STC RATING | 380 W               |
| INVERTER COUNT    | 8                   |
| INVERTER TYPE     | CPS SCA125KTL-DO/US |
| INVERTER POWER    | 125kW               |
| RACKING           | TBD                 |
| MONITORING        | ALSO ENERGY         |

DESIGN CRITERIA

|                        |              |
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| 7 |                           |     |            |

DRAWN BY

JOSE TAVARES

PROJECT NAME

DEVNEY CSG

DRAWING TITLE

ELECTRICAL DETAILS

SCALE<sup>1</sup>

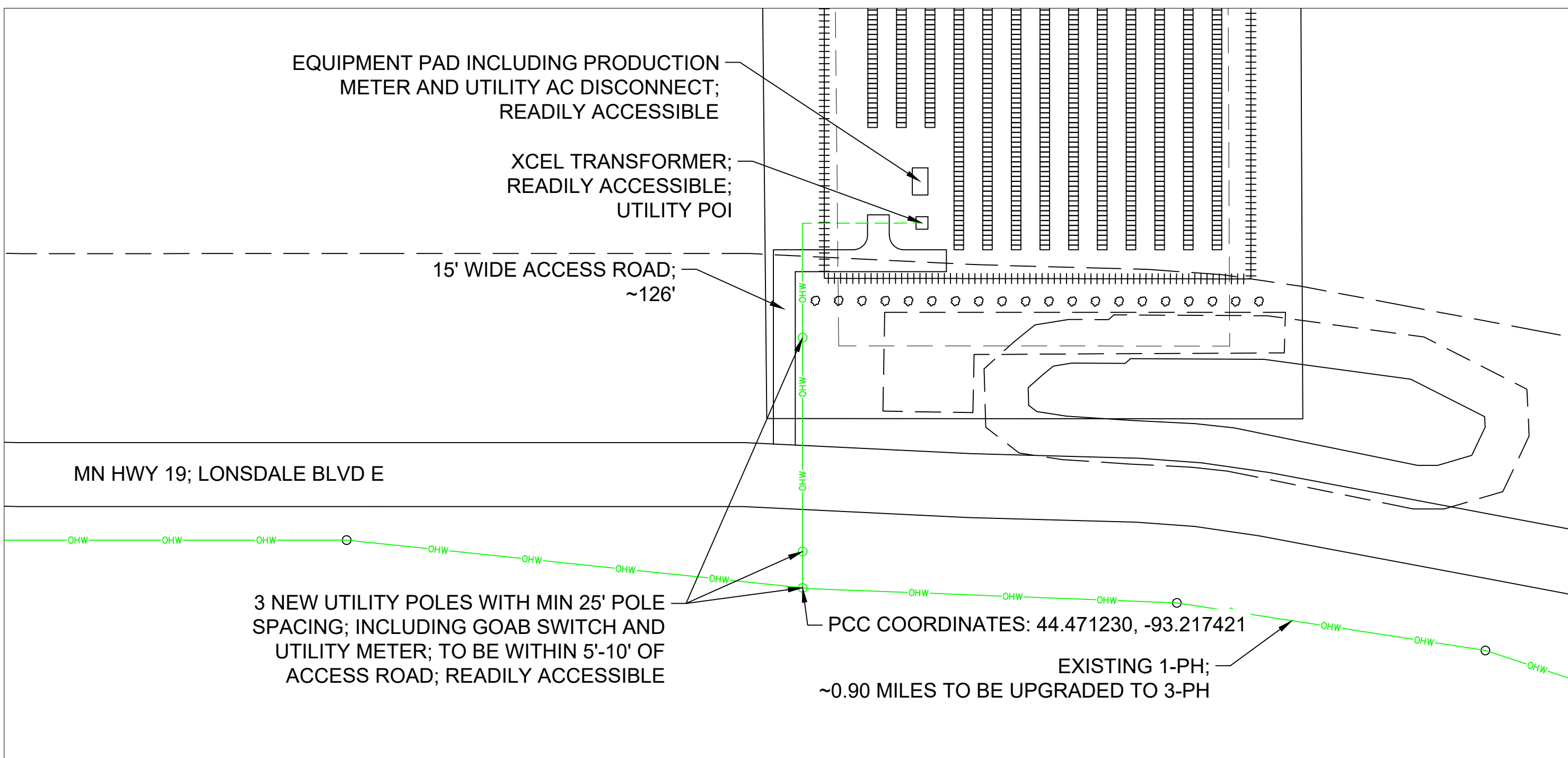
AS NOTED 0 1" 2"

SHEET

E3

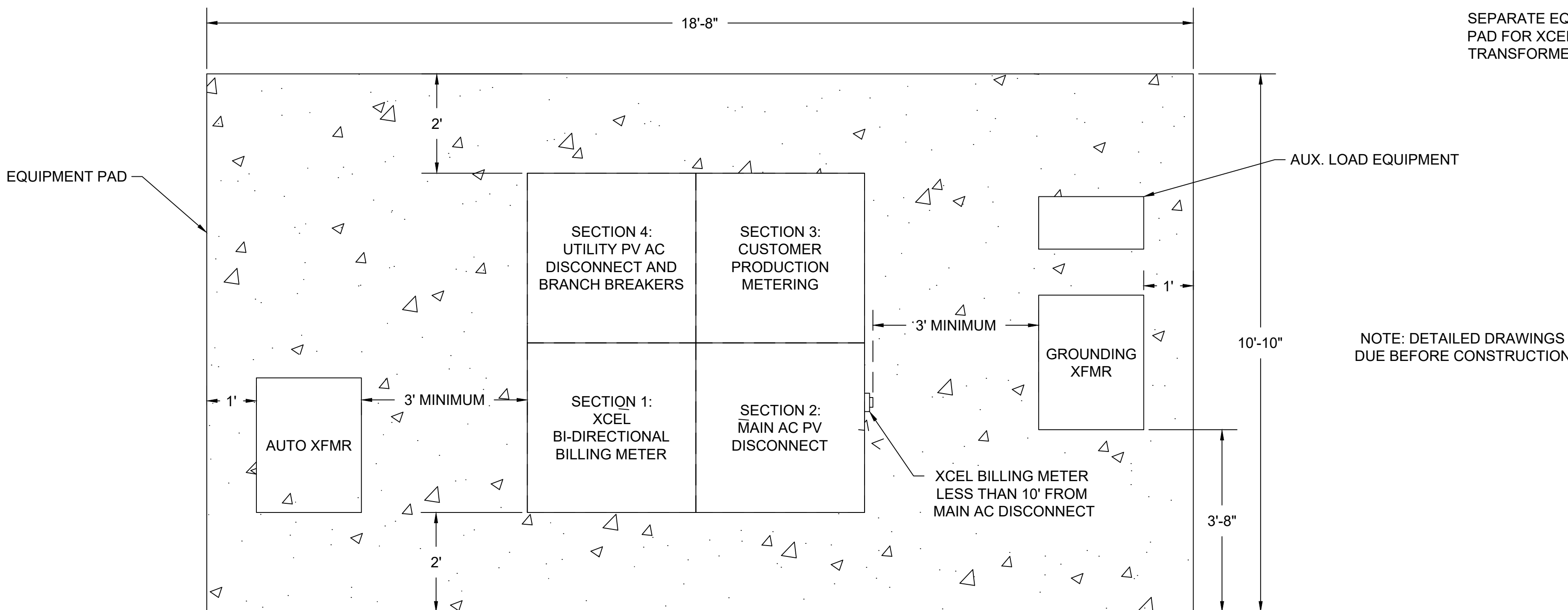
SHEET NOTES:

- Overhead line to underground service  
conductors detail - provided by utility
- Fence Detail and Fence Grounding -  
provided in the civil engineering  
drawings



1 INTERCONNECTION PLAN

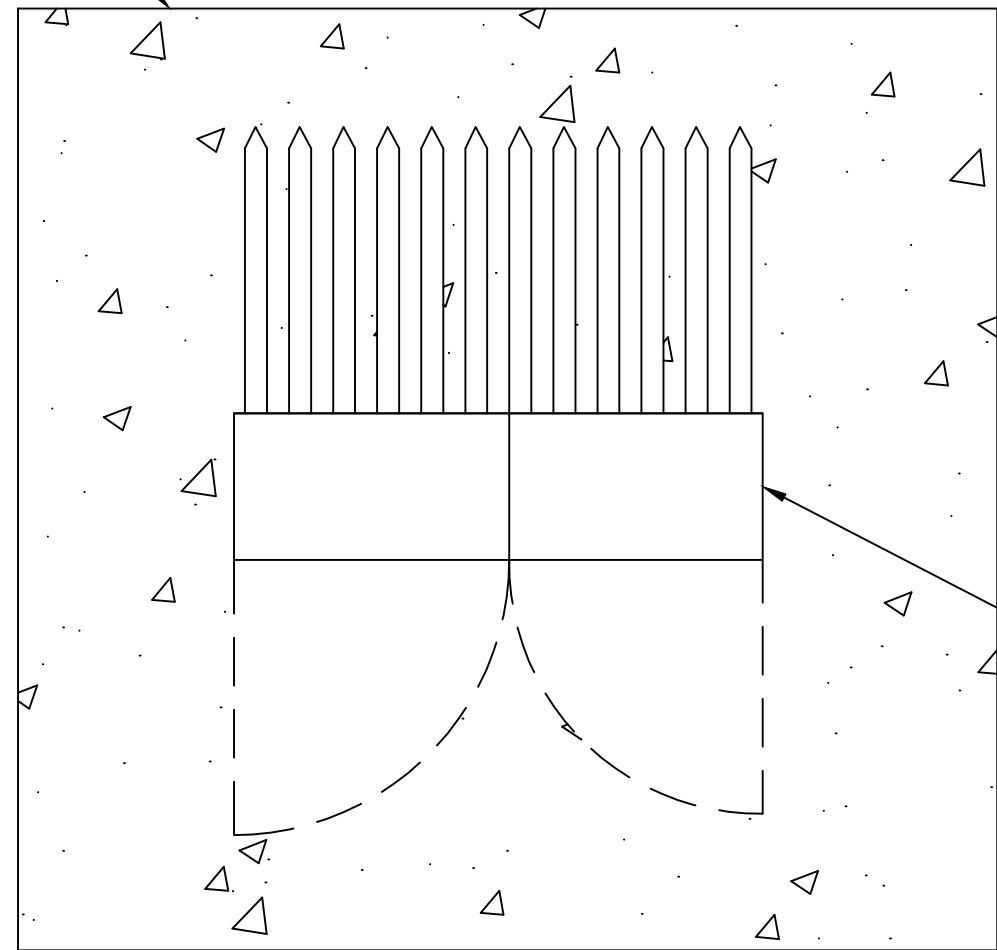
Scale: 1" = 70'



2 EQUIPMENT PAD PLAN

Scale: 3/4" = 1'

SEPARATE EQUIPMENT  
PAD FOR XCEL OWNED  
TRANSFORMER



SPACE FOR PE STAMP:





Datasheet

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



CPS SCH100/125KTL-DO-US-600

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.

### Key Features

- NFPA 70, NEC 2014 and 2017 compliant
- Touch safe DC Fuse holders adds 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



100/125KTL Standard Wire-box



100/125KTL Centralized Wire-box



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Chint Power Systems America  
6800 Kohl Center Parkway, Suite 233 Pleasanton, CA 94566  
Tel: 855-584-7168 Mail: AmericaSales@chintpower.com Web: www.chintpowersystems.com



Technical Data

| Model Name                                   | CPS SCH100KTL-DO-US-600                                                                                                                                                          | CPS SCH125KTL-DO-US-600   |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| DC Input                                     |                                                                                                                                                                                  |                           |
| Max. PV Power                                | 187.5kW                                                                                                                                                                          |                           |
| Max. DC Input Voltage                        | 1500V                                                                                                                                                                            |                           |
| Operating DC Input Voltage Range             | 860-1450Vdc                                                                                                                                                                      |                           |
| Start-up DC Input Voltage / Power            | 900V / 250W                                                                                                                                                                      |                           |
| Number of MPPT Trackers                      | 1                                                                                                                                                                                |                           |
| MPPT Voltage Range <sup>1</sup>              | 870-1300Vdc                                                                                                                                                                      |                           |
| Max. PV Input Current (Isc x1.25)            | 275A                                                                                                                                                                             |                           |
| Number of DC Inputs                          | 1 PV source circuits, pos. & neg. fused (Standard Wire-box)<br>1 PV output circuit, 1-2 terminations per pole, non-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 (820uS)                                                                                                         |                           |
| AC Output                                    |                                                                                                                                                                                  |                           |
| Rated AC Output Power                        | 100kW                                                                                                                                                                            | 125kW                     |
| Max. AC Output Power <sup>2</sup>            | 100kVA (111kVA @ PF>0.9)                                                                                                                                                         | 125kVA (132kVA @ PF>0.95) |
| Rated Output Voltage                         | 600Vac                                                                                                                                                                           |                           |
| Output Voltage Range <sup>3</sup>            | 528-660Vac                                                                                                                                                                       |                           |
| Grid Connection Type <sup>4</sup>            | 3Ø / PE / N (Neutral optional)                                                                                                                                                   |                           |
| Max. AC Output Current @600Vac               | 96.2/106.8A                                                                                                                                                                      | 120.3/127.2A              |
| Rated Output Frequency                       | 60Hz                                                                                                                                                                             |                           |
| Output Frequency Range <sup>5</sup>          | 57-63Hz                                                                                                                                                                          |                           |
| Power Factor                                 | >0.99 (±0.8 adjustable)                                                                                                                                                          | >0.99 (±0.8 adjustable)   |
| Current THD                                  | <3%                                                                                                                                                                              |                           |
| Max. Fast Current Contribution (1-cycle RMS) | 41.47A                                                                                                                                                                           |                           |
| Max. OCPD Rating                             | 150A                                                                                                                                                                             | 175A                      |
| AC Disconnection Type                        | Load-rated AC switch                                                                                                                                                             |                           |
| AC Surge Protection                          | Type II MOV (with indicator/remote signaling), Up=2.5kV, In=20kA (820uS)                                                                                                         |                           |
| System                                       |                                                                                                                                                                                  |                           |
| Topology                                     | Transformerless                                                                                                                                                                  |                           |
| Max. Efficiency                              | 99.1%                                                                                                                                                                            |                           |
| CEC Efficiency                               | 98.5%                                                                                                                                                                            |                           |
| Stand-by / Night Consumption                 | <4W                                                                                                                                                                              |                           |
| Environment                                  |                                                                                                                                                                                  |                           |
| Enclosure Protection Degree                  | NEMA Type 4X                                                                                                                                                                     |                           |
| Cooling Method                               | Variable speed cooling fans                                                                                                                                                      |                           |
| Operating Temperature Range                  | -22°F to +140°F / -30°C to +40°C (operating from +113°F / +45°C)                                                                                                                 |                           |
| Non-Operating Temperature Range <sup>6</sup> | -40°F to +158°F / -40°C to +70°C maximum                                                                                                                                         |                           |
| Operating Humidity                           | 0-100%                                                                                                                                                                           |                           |
| Operating Altitude                           | 8200ft / 2500m (no derating)                                                                                                                                                     |                           |
| Audible Noise                                | <55dBA@1m and 25°C                                                                                                                                                               |                           |
| Display and Communication                    |                                                                                                                                                                                  |                           |
| User Interface and Display                   | LED Indicators, WiFi + APP                                                                                                                                                       |                           |
| Inverter Monitoring                          | Modbus RS485                                                                                                                                                                     |                           |
| Site Level Monitoring                        | CPS Flex Gateway (1 per 32 inverters)                                                                                                                                            |                           |
| Modbus Data Mapping                          | SunSpec/CPS                                                                                                                                                                      |                           |
| Remote Diagnostics / FW Upgrade Functions    | Standard / with Flex Gateway                                                                                                                                                     |                           |
| Mechanical                                   |                                                                                                                                                                                  |                           |
| Dimensions (WxHxD)                           | 45.28x24.25x9.84in (1150x616x250mm) with Standard Wire-box<br>39.37x24.25x9.84in (1000x616x250mm) with Centralized Wire-box                                                      |                           |
| Weight                                       | Inverter: 121lbs / 55kg; Wire-box: 55lbs / 25kg (Standard Wire-box); 33lbs / 15kg (Centralized Wire-box)                                                                         |                           |
| Mounting / Installation Angle                | 15 - 90 degrees from horizontal (vertical or angled)                                                                                                                             |                           |
| AC Termination                               | M10 Stud Type Terminal Block [D6] (Wire range: 10AWG - 500kcmil CU/AL, Lugs not supplied)<br>Screw Clamp Terminal Block [N] (#12 - 10AWG CU/AL)                                  |                           |
| DC Termination                               | Screw Clamp Fuse Holder (Wire range: #12 - #14AWG CU) - Standard Wire-box<br>Busbar, MB PEMserts (Wire range: #14AWG - 250kcmil CU/AL, Lugs not supplied) - Centralized Wire-box |                           |
| Fused String Inputs                          | 15A or 20A fuses provided (Determined by product SKU)                                                                                                                            |                           |
| Safety                                       | UL1741-SA-2016, CSA-C22.2 NO.107.1-01, IEEE1547a-2014, FCC PART15                                                                                                                |                           |
| Safety and EMC Standard                      | UL1741-SA-2016, CSA-C22.2 NO.107.1-01, IEEE1547a-2014, FCC PART15                                                                                                                |                           |
| Severable Grid Standard                      | IEEE 1547a-2014, CA Rule 21, B0-AIE                                                                                                                                              |                           |
| Smart-Grid Features                          | Volt-RideThru, Freq-RideThru, Ramp-Rate, Specified-PF, Volt-VAr, Freq-Watt, Volt-Watt                                                                                            |                           |
| Warranty                                     | 5 years                                                                                                                                                                          |                           |
| Extended Terms                               | 10, 15 and 20 years                                                                                                                                                              |                           |

<sup>1</sup> See user manual for further information regarding MPPT Voltage Range when operating at non-unity PF  
<sup>2</sup> Max. AC Apparent Power rating valid with MPPT voltage range and temperature range of 30°C to +40°C (32°F to +104°F) for 100kW PF 20 and 150kW PF 20.65  
<sup>3</sup> The "Output Voltage Range" and "Output Frequency Range" may differ according to the specific grid standard.  
<sup>4</sup> If not pre-qualified, data may not be correct ground.  
<sup>5</sup> See user manual for further requirements regarding non-operating conditions.  
<sup>6</sup> 5 year warranty effective for units purchased after October 1st, 2019.



NEW ENERGY EQUITY, LLC  
2530 RIVA ROAD, SUITE 200  
ANNAPOLIS, MD 21041  
NEWENERGYEQUITY.COM  
443-267-5012

PROJECT ADDRESS  
3869-3999 MN-19  
NORTHFIELD, MN 55057

LAT: 44.4737619461  
LONG: -93.2188576538

### SYSTEM SPECIFICATIONS

|                   |                     |
|-------------------|---------------------|
| SYSTEM SIZE DC    | 1.454 MW            |
| SYSTEM SIZE AC    | 1.000 MW            |
| DC/AC RATIO       | 1.454               |
| AZIMUTH           | 180°                |
| TILT              | +/- 52°             |
| MODULE COUNT      | 3825                |
| MODULE TYPE       | REC 380TP2SM 72     |
| MODULE STC RATING | 380 W               |
| INVERTER COUNT    | 8                   |
| INVERTER TYPE     | CPS SCA125KTL-DO/US |
| INVERTER POWER    | 125kW               |
| RACKING           | TBD                 |
| MONITORING        | ALSO ENERGY         |

### DESIGN CRITERIA

|                        |              |
|------------------------|--------------|
| MIN/MAX TEMP.          | -29°C / 31°C |
| WIND SPEED (ASCE 7-10) | 105 MPH      |
| BUILDING CATEGORY      | I            |
| EXPOSURE CATEGORY      | C            |
| GROUND SNOW LOAD       | 50 PSF       |
| BUILDING HEIGHT        | 0'-0"        |

### OTHER NOTES

CASE NUMBER 04124406

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 PROVIDED TO ALL XCEL ENERGY EQUIPMENT INCLUDING THE METERS AND AC DISCONNECT.

INTERCONNECTION TYPE: SECONDARY

PROJECT OWNER: MN CSG 2019-77 LLC

### REVISIONS

| # | DESCRIPTION               | BY  | DATE       |
|---|---------------------------|-----|------------|
| 0 | ORIGINAL DESIGN           | SPC | 10/14/2020 |
| 1 | SITE PLAN                 | MPH | 10/20/2020 |
| 2 | UPDATE WITH XCEL COMMENTS | MPH | 11/4/2020  |
| 3 | CUP PACKAGE               | JAT | 1/18/2021  |
| 4 |                           |     |            |
| 5 |                           |     |            |
| 6 |                           |     |            |
| 7 |                           |     |            |

### DRAWN BY

JOSE TAVARES

### PROJECT NAME

DEVNEY CSG

### DRAWING TITLE

EQUIPMENT DOCUMENTS

### SCALE<sup>1</sup>

NTS

0 1" 2"

### SHEET

E4

## REC TWINPEAK 25 MONO 72 SERIES

PREMIUM SOLAR PANELS  
100% MADE IN SINGAPORE

REC TwinPeak 25 Mono 72 Series solar panels feature an innovative design with high efficiency and an industry-leading lightweight, yet robust construction, enabling customers to get the most out of the installation area.

Combined with the product quality and reliability of a strong and established European brand, REC TwinPeak 25 Mono 72 Series panels are ideal for all types of commercial rooftop and utility installations worldwide.

NOW  
WITH NEW  
WARRANTY!

### INTEGRATED MANUFACTURING IN SINGAPORE



WAFERS



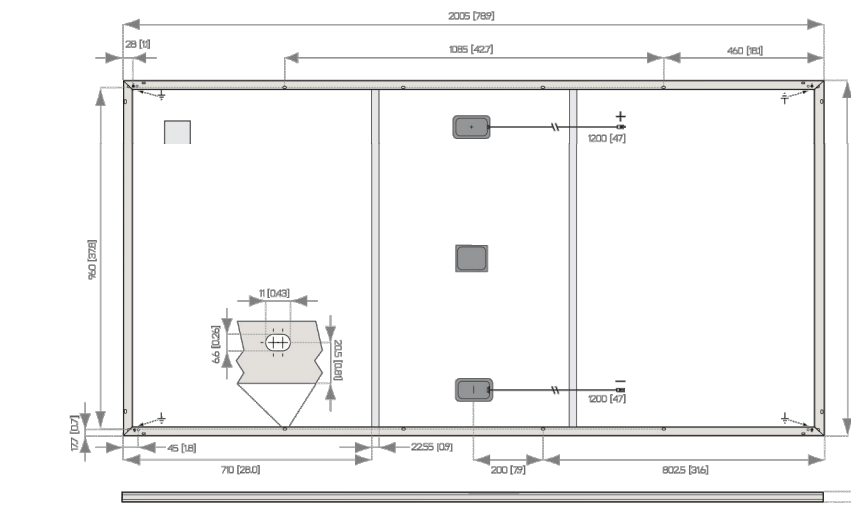
CELLS



MODULES



## REC TWINPEAK 25 MONO 72 SERIES



All measurements in mm [in]

| ELECTRICAL DATA @ STC                       | Product Code <sup>1</sup> : RECxxxTP25M 72 |
|---------------------------------------------|--------------------------------------------|
| Nominal Power - P <sub>max</sub> (Wp)       | 360 365 370 375 380                        |
| Watt Class Sorting - (W)                    | -0/+5 -0/+5 -0/+5 -0/+5 -0/+5              |
| Nominal Power Voltage - V <sub>mp</sub> (V) | 39.4 39.6 39.8 40.1 40.3                   |
| Nominal Power Current - I <sub>mp</sub> (A) | 9.14 9.22 9.30 9.36 9.43                   |
| Open Circuit Voltage - V <sub>oc</sub> (V)  | 47.4 47.6 47.8 48.0 48.2                   |
| Short Circuit Current - I <sub>sc</sub> (A) | 9.74 9.82 9.85 9.96 10.05                  |
| Panel Efficiency (%)                        | 17.9 18.2 18.4 18.7 18.9                   |

Values at standard test conditions STC (airmass AM 1.5, irradiance 1000 W/m<sup>2</sup>, cell temperature 77°F [25°C]).  
At low irradiance of 200 W/m<sup>2</sup> (SAT 1.5) and cell temperature 77°F [25°C] at least 95% of the STC module efficiency will be achieved.  
<sup>1</sup> xxx indicates the nominal power class (P<sub>max</sub>) at STC, and can be followed by the suffix XY for modules with a 500 V maximum system rating.

| ELECTRICAL DATA @ NOCT                      | Product Code <sup>1</sup> : RECxxxTP25M 72 |
|---------------------------------------------|--------------------------------------------|
| Nominal Power - P <sub>max</sub> (Wp)       | 271 274 278 282 286                        |
| Nominal Power Voltage - V <sub>mp</sub> (V) | 36.6 36.8 37.0 37.3 37.5                   |
| Nominal Power Current - I <sub>mp</sub> (A) | 7.39 7.45 7.51 7.56 7.62                   |
| Open Circuit Voltage - V <sub>oc</sub> (V)  | 44.1 44.3 44.4 44.6 44.8                   |
| Short Circuit Current - I <sub>sc</sub> (A) | 7.87 7.93 7.96 8.05 8.12                   |

Nominal cell operating temperature NOCT 1800 W/m<sup>2</sup> AM 1.5, wind speed 1 m/s, ambient temperature 45°F [12°C].  
<sup>1</sup> xxx indicates the nominal power class (P<sub>max</sub>) at STC, and can be followed by the suffix XY for modules with a 500 V maximum system rating.

|                                                                                                                                                                                                                       |                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CERTIFICATION                                                                                                                                                                                                         | WARRANTY                                                                                                                                                                           |
| UL 1703, Fire classification: Type I (500 V XVL), Type 2 (1000 V),<br>IEC 61215, IEC 61730, IEC 62104 (P0), IEC 62716 (Anomalous),<br>IEC 61730 (Type Marked),<br>ISO 9001:2015, ISO 14001:2015, CE, CASAS 18001:2007 | 20 year product warranty<br>25 year linear power output warranty<br>Max. performance degradation of 0.5% p.a. from 97.5% to year 1<br>See warranty conditions for further details. |

18.9% EFFICIENCY  
20 YEAR PRODUCT WARRANTY  
25 YEAR LINEAR POWER OUTPUT WARRANTY

|                                                          |
|----------------------------------------------------------|
| TEMPERATURE RATINGS                                      |
| Nominal Operating Cell Temperature (NOCT): 44.9°C (±2°C) |
| Temperature Coefficient of P <sub>max</sub> : -0.37%/°C  |
| Temperature Coefficient of V <sub>oc</sub> : -0.28%/°C   |
| Temperature Coefficient of I <sub>sc</sub> : 0.04%/°C    |

|                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------|
| GENERAL DATA                                                                                                    |
| Cell type: 144 half-cut monocrystalline PERC cells<br>5 strings of 24 cells in series                           |
| Glass: 0.13" (3.2 mm) solar glass with anti-reflection surface treatment                                        |
| Back Sheet: Highly resistant polyester                                                                          |
| Frame: Anodized aluminum (silver)                                                                               |
| Support bars: Anodized aluminum (bonded to backsheet)                                                           |
| Junction Box: IP67 rated with 3 bypass diodes<br>12 AWG (4 mm <sup>2</sup> ) PV wire, 47" ± 47" (1.2 m ± 1.2 m) |
| Connectors: Tonglin TL-Cable 015-F (4 mm <sup>2</sup> )                                                         |
| Origins: Made in Singapore                                                                                      |

|                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------|
| MAXIMUM RATINGS                                                                                                                     |
| Operational Temperature: -40 ~ +85°F (-40 ~ +85°C)                                                                                  |
| Maximum System Voltage: 1000 V / 1500 V*<br>*dependent on inverter type                                                             |
| Design Load: (4) 75.2 lbs/ft <sup>2</sup> (3600 Pa)<br>(3) 33.4 lbs/ft <sup>2</sup> (1600 Pa)<br>Refer to installation instructions |
| Max Series Fuse Rating: 20 A                                                                                                        |
| Max Reverse Current: 20 A                                                                                                           |

|                                                        |
|--------------------------------------------------------|
| MECHANICAL DATA                                        |
| Dimensions: 78.9" x 39.4" x 1.2" (2005 x 1003 x 30 mm) |
| Area: 216 ft <sup>2</sup> (201 m <sup>2</sup> )        |
| Weight: 48.5 lbs (22 kg)                               |

Note: Specifications subject to change without notice.



www.recgroup.com

SPACE FOR PE STAMP: