#### STATE OF MINNESOTA BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

In the Matter of the Application of)Marshall Solar for A Site Permit)For the Marshall Solar Energy)Project and Associated Facilities)In Lyon County, Minnesota)

Docket No. IP-6941/GS-14-1052

#### MARSHALL SOLAR, LLC's APPLICATION FOR A MINOR ALTERATION

By:

Brian M. Meloy Stinson Leonard Street 150 South Fifth Street Suite 2300 Minneapolis, Minnesota 55402 Telephone: (612) 335-1500 brian.meloy@stinson.com

Dated: September 26, 2017

#### STATE OF MINNESOTA BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

)

)

)

)

)

In the Matter of the Application of Marshall Solar for a Site Permit For the Marshall Solar Energy Project and Associated Facilities In Lyon County, Minnesota

Docket No. IP-6941/GS-14-1052

#### MARSHALL SOLAR, LLC's APPLICATION FOR MINOR ALTERATION

#### I. Introduction

On May 5, 2016, the Minnesota Public Utilities Commission ("Commission") issued a Site Permit to Marshall Solar, LLC ("Marshall Solar" or "Project") to construct a 62.5 megawatt solar plant and associated facilities. Currently, the Marshall Solar facility is operational. As part of its on-going maintenance activities, however, Marshall Solar has identified the need to construct a shed to store and protect maintenance tools and equipment from the elements. Because the shed was not included as an associated facility of the Project, pursuant to Minn. R. 7850.4800, Marshall Solar respectfully requests a minor alternation to the Project to authorize the construction of the shed within the Project area.

The shed is proposed to be constructed on land that Marshall Solar owns, is within the fenced in Project area and is currently covered with gravel. The dimensions of the shed would be no larger than 30 feet by 50 feet. The shed is made of steel and supported by four wood poles. The shed does not need a foundation; however, if a foundation is used it would be a concrete floor that would be the size of the inside of the building 30 x 50 feet and 4 inches thick. The concrete floor would be a floating floor, and, thus, not anchored. Further, while the addition of the shed does not include a need for water or sewer services, a single-phase circuit

would be constructed from the Marshall Solar substation to the shed to power lights. This circuit will be buried at a depth of two feet. Representative photos of the proposed shed are attached as Attachment A, and a revised Site Plan is attached as Attachment B.

#### II. Standard of Review

Under Minn. R. 7850.4800, Subp. 1 and 2:

A minor alteration is a change in a large electric power generating plant or high voltage transmission line that does not result in significant changes in the human or environmental impact of the facility. . . . A person seeking authorization to make a minor alteration in a large electric power generating plant or high voltage transmission line shall apply to the commission. The application shall be in writing and shall describe the alteration in the large electric power generating plant or high voltage transmission line to be made and the explanation why the alteration is minor. The commission shall mail notice of receipt of the application to those persons on the general list and to those persons on the project contact list if such a list exists. The commission shall provide at least a ten-day period for interested persons to submit comments on the application or to request that the matter be brought to the commission for consideration.

Consistent with this standard, this Application shows that the minor alteration proposed

by Marshall Solar does not result in a significant change in the human or environmental impact

of the Marshall Solar facility.

#### **III.** Impact to Humans and the Environment

The following provides an analysis of the shed's impact on humans and the environment using the same criteria employed to evaluate the Marshall Solar facility.<sup>1</sup> The analysis shows the construction and use of the shed does not result in a significant change in the impact of the Marshall Solar facility.

<sup>&</sup>lt;sup>1</sup> In the Matter of the Application of Marshall Solar, LLC for a Site Permit for the Marshall Solar Energy Project and Associated Facilities in Lyon County, Docket No. GS-14-1052, Order Issuing Site Permit (May 5, 2016).

| Siting Factors   | Comments   |  |
|--|--|--|
| (Minn. R. 7850.4100)                                   |  |  |
| A. Effects on Human Settlements                        | The proposed shed is within the Project area.<br>There are no emissions, noise or toxins<br>associated with the shed. Aesthetically, the<br>shed is consistent with the viewshed<br>associated with the solar facility. Further, the<br>shed has no impact on recreational or cultural<br>values as it is within the Project area. The<br>shed has no water or sewer requirements.<br>Thus, the shed poses no significant change to<br>the impact to humans. |  |
| B. Effects on Public Health and Safety                 | The construction and use of the shed does not<br>pose a significant impact on public health and<br>safety in that: (1) it will be located within the<br>Project area that is enclosed by an 8-foot<br>chain-link fence; and (2) it will be constructed<br>and used in accordance with local, state and<br>federal safety laws. Thus, the shed poses no<br>significant change to the impact on public<br>health and safety.                                   |  |
| C. Effects on Land-based Economics                     | As the shed is within the Project area, and will<br>be constructed on ground that is already<br>covered with gravel, the construction and use<br>of the shed results in no additional impact to<br>land-based economics. After the life of the<br>facility, the shed will be decommissioned<br>consistent with the on-file Decommissioning<br>Plan, and, therefore, the shed does not pose a<br>significant change in the impact to land-based<br>economics. |  |
| D. Effects on Archaeological and Historic<br>Resources | The shed will be constructed and located<br>within the Project area, which was already<br>reviewed for archaeological and historical<br>resources. Based on this review, no mitigation<br>measures were required for the facility's<br>impact on archaeological and historical<br>resources. Therefore, the construction and use<br>of the shed within the Project area poses no<br>significant change to the impact on these<br>resources.                  |  |

| E. Effects on the Natural Environment   | The construction of the shed will not require<br>additional disturbance of the land, with the<br>exception of minimal disturbance resulting<br>from the placing the supporting poles 4 feet<br>deep in an area covered with gravel. When the<br>facility is decommissioned, the land the shed<br>resides on will be restored consistent with the<br>on-file Decommissioning Plan. Thus, the<br>construction and use of the shed does not<br>result in a significant change in the Marshal<br>Solar facility's impact on the natural<br>environment. |
|---|---|
| F. Effects on Rare and Unique Natural<br>Resources  | The construction and use of the shed within<br>the Project area presents no significant change<br>in the impact on rare and unique natural<br>resources in that it does not require tree<br>removal or any other land or resource<br>disturbances that would affect rare and unique<br>natural resources.   |
| G. Design Options that Maximize Energy<br>Efficiencies, Mitigate Adverse<br>Environmental Impacts, and<br>Accommodate Expansion | The construction and use of the shed does not<br>affect the energy efficiencies of the solar<br>facility nor the ability to accommodate<br>expansion. As already explained, it does not<br>pose a significant change to the environmental<br>impact of the Marshall Solar facility.<br>Therefore, the application of these criteria are<br>either not applicable to the shed or show that it<br>does not pose a significant change in the<br>impact of the facility.  |
| H. Use or Paralleling Existing Right-of-<br>Way   | The construction and use of the shed has no<br>impact on Marshall Solar's use or paralleling<br>of existing right-of-way.   |
| I. Use of Existing Large Electric Power<br>Generating Plant Sites   | The construction and use of the shed has no<br>impact on Marshall Solar's use of large<br>electric power generating plant sites.  |
| J. Use of Existing Transportation<br>Pipeline, and Electrical Transmission<br>Right-of-Way                                      | The construction and use of the shed has no<br>impact on the Marshall Solar facility's use of<br>existing transportation, pipeline and electrical<br>right-of-way.  |

| K. Electric System Reliability   | The construction and use of the shed as no impact on the electric system reliability.                                    |
|--|--|
| L. Costs   | The approximate cost of the shed (construction and material) is approximately \$50,000.                                  |
| M. Adverse Human and Natural<br>Environmental Effects which Cannot<br>be Avoided | The construction and use of the shed poses no<br>adverse human and environmental effects that<br>cannot be avoided.      |
| N. Irreversible and Irretrievable<br>Commitment of Resources                     | The construction and use of the shed does not<br>result in an irreversible and irretrievable<br>commitment of resources. |

#### IV. Conclusion

Based on the above analysis, Marshall Solar respectfully requests that the Commission

approve its Application for a minor alternation.

Dated: September 26, 2017

### Respectfully submitted,

#### /s/ Brian M. Meloy

Brian M. Meloy STINSON LEONARD STREET 150 South Fifth Street, Suite 2300 Minneapolis, Minnesota 55402 Telephone: (612) 335-1500 brian.meloy@stinson.com

## **ATTACHMENT A – REPRESENTATIVE PHOTOS**

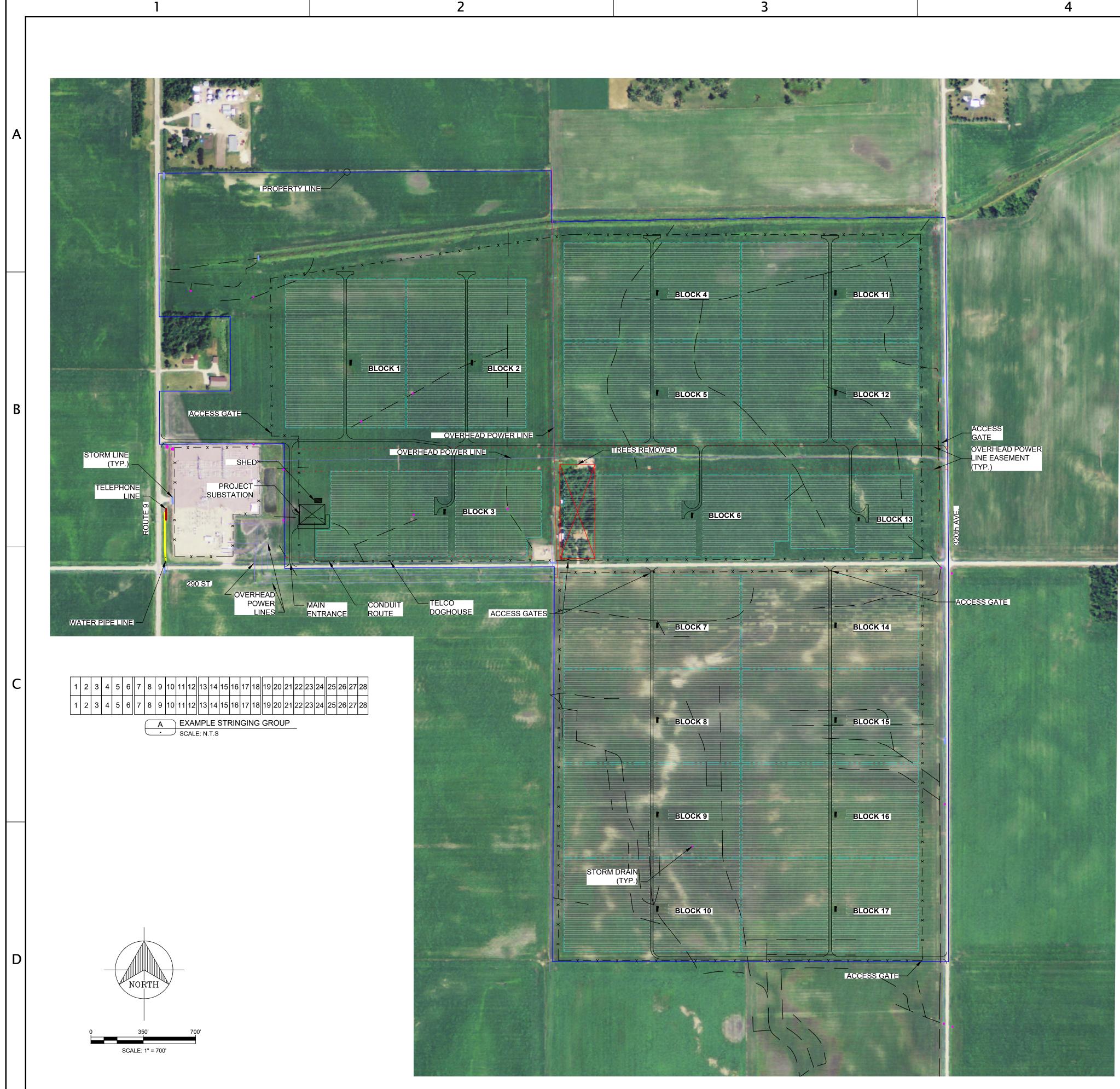
## ATTACHMENT A

### **REPRESENTATIVE PHOTOS**





ATTACHMENT B – SITE PLAN



## ASHRAE 0.4% ASHRAE 2% ASHRAE MINIMUN PROJECT DC OUTP PROJECT AC OUTPU PROJECT DC/AC RA ARRAY GCR SITE ACREAGE (PAR FENCED AREA FENCE LENGTH ACCESS ROAD LEN

5

## **RACKING/TRACKE**

## **INVERTER STATION**



RRC POWER & ENERGY, LLC 7662 SW MOHAWK ST, TUALATIN, OR 97062 PHONE: (503) 342-4064 www.RRCcompanies.com

PREPARED FOR:





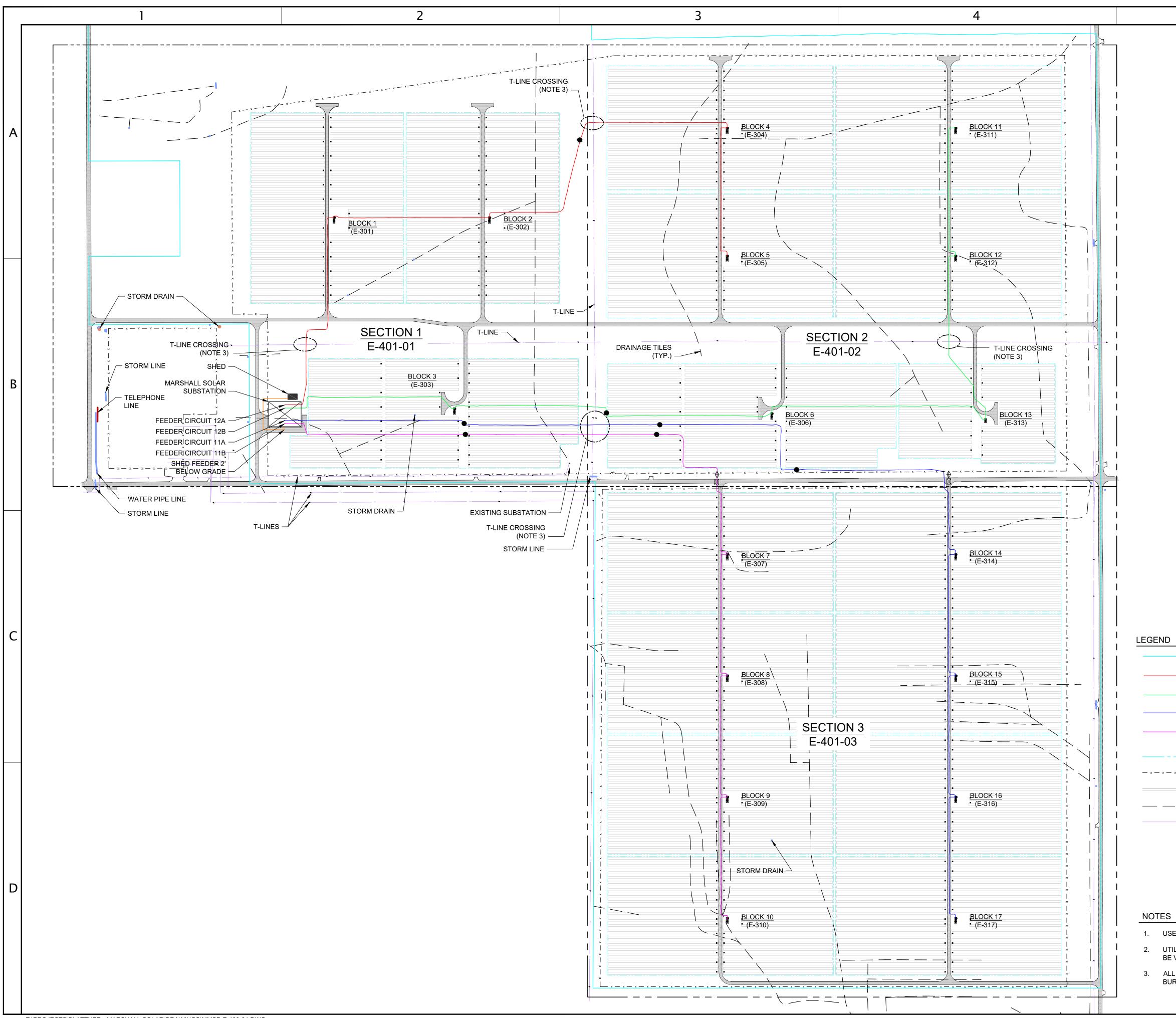
## **RECORD DRAWING**

THIS AS-RECORDED DRAWING WAS PRODUCED BASED ON FIELD CHANGES MADE AND RECORDED BY THE CONTRACTOR. THIS DRAWING RELIES ON THE INFORMATION PROVIDED BY THE CONTRACTOR AND IT HAS NOT BEEN VERIFIED BY THE ENGINEER-OF-RECORD.

| 7   |                                    |                          |  |  |  |
|-----|------------------------------------|--------------------------|--|--|--|
| 6   | 08/30/2017                         | AS RECORDED              |  |  |  |
| 5   | 12/19/2016                         | AS-RECORDED              |  |  |  |
| 4   | 08/17/2016 ISSUED FOR CONSTRUCTION |                          |  |  |  |
| 3   |                                    |                          |  |  |  |
| 2   | 04/12/2016                         | ISSUED FOR CONSTRUCTION  |  |  |  |
| 1   | 03/02/2016                         | ISSUED FOR CONSTRUCTION  |  |  |  |
| 0   | 01/11/2016                         | ISSUED FOR CONSTRUCTION  |  |  |  |
| REV | DATE                               | ISSUE DESCRIPTION        |  |  |  |
| PRC | JECT MGR:                          | S. MOSER                 |  |  |  |
| CHE | CKED BY:                           | R. BALYON                |  |  |  |
|     | GNED BY:                           |                          |  |  |  |
| DRA | WN BY:                             | M. SUDUL                 |  |  |  |
| SCA | LE: AS NOTE                        | D                        |  |  |  |
|     | 0                                  | 2"                       |  |  |  |
|     |                                    |                          |  |  |  |
|     |                                    | T SCALE 2" FOR FULL SIZE |  |  |  |
|     | OR 1" F                            | OR HALF SIZE DRAWING     |  |  |  |
| PRO | JECT NUMBE                         | R: MD1502008             |  |  |  |
| DRA | DRAWING NAME:                      |                          |  |  |  |
|     |                                    |                          |  |  |  |
|     |                                    |                          |  |  |  |
|     |                                    | MARSHALL                 |  |  |  |
|     |                                    |                          |  |  |  |
|     | SO                                 | LAR PROJECT              |  |  |  |
|     |                                    |                          |  |  |  |
|     |                                    | SITE PLAN                |  |  |  |
|     |                                    |                          |  |  |  |
|     |                                    |                          |  |  |  |
|     |                                    |                          |  |  |  |
|     |                                    |                          |  |  |  |
|     | E ISSUED: 12                       | 2/19/2016                |  |  |  |
|     |                                    |                          |  |  |  |
| DRA | DRAWING No. SHEET: REVISION        |                          |  |  |  |
| E-' | E-101-01 1 of 1 7                  |                          |  |  |  |

CADFILE: MMSP-E-101-01

| ASHRAE LOCATION                | 1,500 V<br>MARSHALL/RYAN (AWOS) |
|--------------------------------|---------------------------------|
| ASHRAE 0.4%                    | 35 °C                           |
| ASHRAE 2%                      | 32 °C                           |
| ASHRAE MINIMUM TEMPERATURE     | -27 °C                          |
| PROJECT DC OUTPUT POWER        | 93.16 MW DC                     |
| ROJECT AC OUTPUT POWER         | 62.25 MW AC                     |
| PROJECT DC/AC RATIO            | 1.4965                          |
| ARRAY GCR                      | 53%                             |
| SITE ACREAGE (PARCEL 1, 2, &3) | 433.9 ACRES                     |
| ENCED AREA                     | 353.3 ACRES                     |
| ENCE LENGTH                    | 22,820 FT                       |
| ACCESS ROAD LENGTH             | 20,973 FT                       |
|                                |                                 |
|                                | Q-CELLS-Q.PLUS L-G4 330         |
|                                | 330 W                           |
|                                | 72                              |
| RAME<br>MODULE QUANTITY        | ALUMINUM<br>282,296             |
| STRING SIZE                    | 282,230                         |
|                                | 20                              |
| ACKING/TRACKER                 | FIXED TILT                      |
| MANUFACTURER                   | SUNLINK                         |
| MODULE ORIENTATION             | PORTRAIT                        |
| TABLE CONFIGURATION            | 2X6 / 2X4                       |
| TOTAL NO. 2X6 TABLES           | 23,270                          |
| TOTAL NO. 2X4 TABLES           | 383                             |
| MODULES PER STRING TABLE       | 56                              |
| TILT ANGLE                     | 25 °                            |
| AZIMUTH                        | 180 °N                          |
| AISLE SPACING                  | 13.10 FT                        |
| TABLE PITCH                    | 25.00 FT                        |
|                                |                                 |
| NVERTER STATION                |                                 |
| MANUFACTURER                   | GE                              |
| NVERTER MODEL                  | GE 1500V 4 MVA                  |
| NO. OF INVERTER BLOCKS         | 16                              |
|                                | 98.2%                           |
|                                | 835 - 1300 V                    |
| ATED MPPT RANGE                | 835 - 1300 V<br>835 - 1500 V    |
| MAX. CONT. DC CURRENT          | 5,000 A                         |
| MAX. POWER OUTPUT              | 4,000 kVA                       |
| AC VOLTAGE                     |                                 |
| CERTIFICATION                  | UL                              |
|                                |                                 |
| NVERTER STATION (BLOCK 13)     |                                 |
| MANUFACTURER                   | GE                              |
| NVERTER MODEL                  | GE 1500V 1 MVA                  |
| NO. OF INVERTERS PER SKID      | 2                               |
| NO. OF INVERTER BLOCKS         | 1                               |
| CEC EFFICIENCY                 | 98.2%                           |
| MAXIMUM VOLTAGE                | 1,500 V                         |
| ATED MPPT RANGE                | 835 - 1300 V                    |
| DC OPERATING VOLTAGE RANGE     | 835 - 1500 V                    |
| MAX. CONT. DC CURRENT          | 1,250 A                         |
| MAX. POWER OUTPUT PER SKID     | 2,000 kVA                       |
|                                | 550 V                           |
| LEGEND                         |                                 |
|                                |                                 |
|                                | OVERHEAD POWER LINE             |
| — —                            | SOLAR BLOCK BOUNDARY            |
| x                              | FENCE                           |
|                                | DRAINAGE TILES                  |
|                                | ROAD                            |
| r                              | INVERTER                        |
| •                              |                                 |
|                                | EASEMENTS                       |
|                                | PROPERTY LINE                   |
|                                | STORM LINE                      |
|                                | TELCO DOGHOUSE                  |
|                                | W/ GATED FENCE (2' ALL AROUNI   |
|                                | PROJECT FENCE FOR BACK SIDE     |



5



RRC POWER & ENERGY, LLC 7662 SW MOHAWK ST, TUALATIN, OR 97062 PHONE: (503) 342-4064 www.RRCcompanies.com

PREPARED FOR:



## MARSHALL SOLAR, LLC

## RECORD DRAWING

THIS AS-RECORDED DRAWING WAS PRODUCED BASED ON FIELD CHANGES MADE AND RECORDED BY THE CONTRACTOR. THIS DRAWING RELIES ON THE INFORMATION PROVIDED BY THE CONTRACTOR AND IT HAS NOT BEEN VERIFIED BY THE ENGINEER-OF-RECORD.

| 4                               | 09/07/2017      | AS-RECORDED             |  |
|---------------------------------|-----------------|-------------------------|--|
| 3                               | 08/30/2017      | AS-RECORDED             |  |
| 2                               | 12/19/2016      | AS-RECORDED             |  |
| 1                               | 08/03/2016      | ISSUED FOR CONSTRUCTION |  |
| 0                               | 01/11/2016      | ISSUED FOR CONSTRUCTION |  |
| REV                             | DATE            | ISSUE DESCRIPTION       |  |
| PRC                             | JECT MGR:       | S. MOSER                |  |
| CHE                             | ECKED BY:       | R. BALYON               |  |
|                                 | GIGNED BY:      | N. WEHNER               |  |
| DRA                             | WN BY:          | J. MOFFIT               |  |
| SCA                             | LE: 1" = 250'-( | כ"                      |  |
|                                 | 0               | 2"                      |  |
|                                 |                 |                         |  |
| BAR MUST SCALE 2" FOR FULL SIZE |                 |                         |  |
| OR 1" FOR HALF SIZE DRAWING     |                 |                         |  |
| PRO                             | JECT NUMBE      | R: MD1502008            |  |
| DRAWING NAME:                   |                 |                         |  |
|                                 |                 |                         |  |
|                                 |                 |                         |  |
| MARSHALL                        |                 |                         |  |
|                                 |                 |                         |  |
| SOLAR PROJECT                   |                 |                         |  |
|                                 |                 |                         |  |
| AC CABLE LAYOUT                 |                 |                         |  |
|                                 |                 |                         |  |
|                                 |                 |                         |  |

## \_\_\_\_ DRAINAGE TILES OH TRANSMISSION LINE INVERTER COUNTY / STATE ROAD BORING UNDER GROUND SPLICE (SEE DRAWING E-421-01) GROUND POINT NOTES 1. USE 811 "ONE CALL" TO LOCATE ALL UNDERGROUND UTILITY. 2. UTILITIES LOCATED WITHIN CONSTRUCTION AREA NEEDS TO DATE ISSUED: 12/19/2016 BE VERIFIED THEY ARE ABANDONED. DRAWING No. SHEET: REVISION 3. ALL TRANSMISSION LINE EASEMENT CROSSINGS ARE DIRECT E-400-01 1 of 2 4 BURIED AND INSTALLED PERPENDICULAR TO T-LINE. CADFILE: MMSP-E-400-01

PROJECT BOUNDARY

TRENCHING

TRENCHING

TRENCHING

TRENCHING

ROAD

-x - x - x - x - x - x - x - x - FENCE

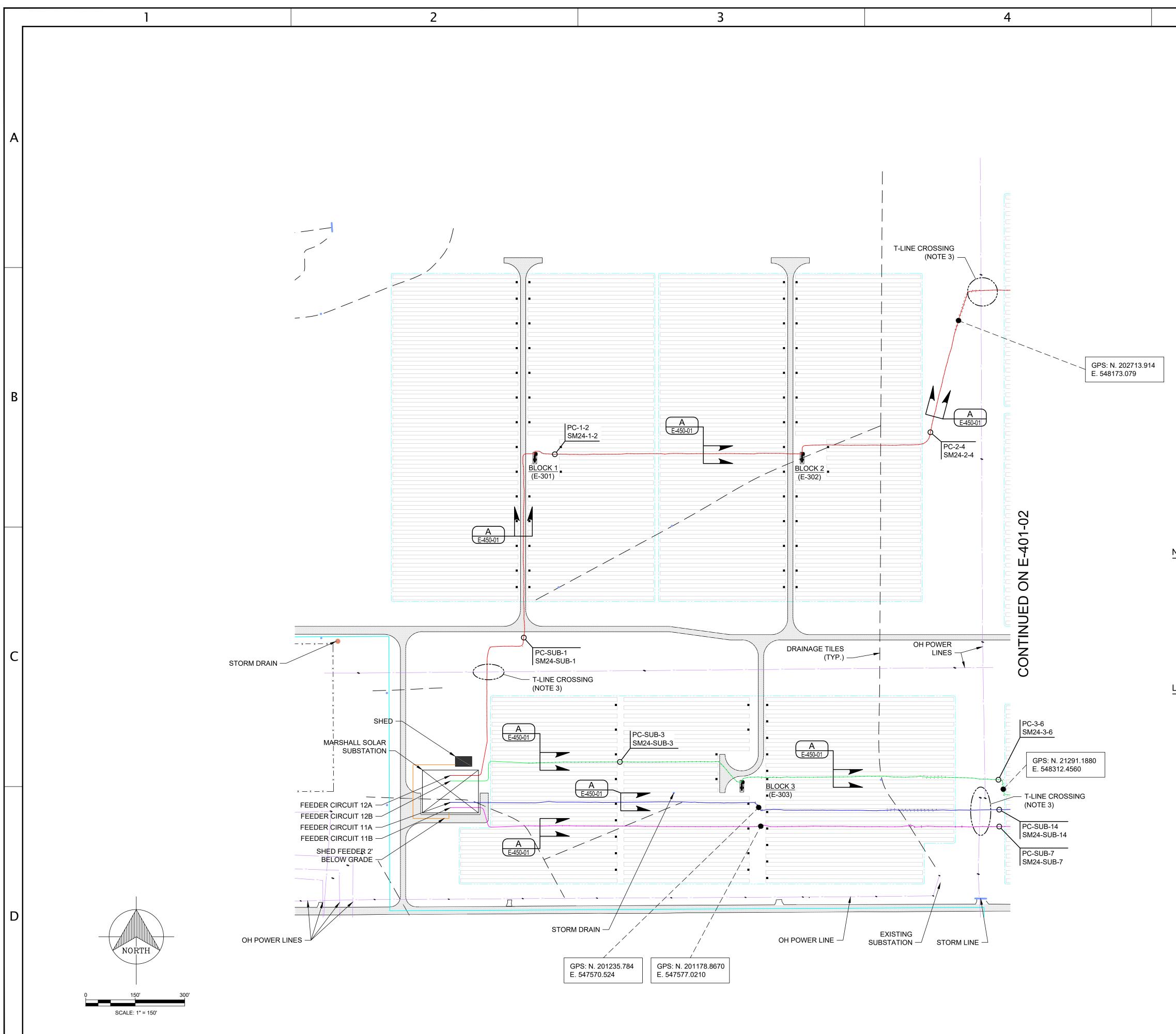
SOLAR BLOCK BOUNDARY

FEEDER CIRCUIT 12A AS RECORDED

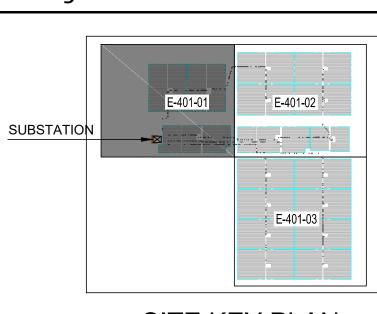
FEEDER CIRCUIT 12B AS RECORDED

FEEDER CIRCUIT 11A AS RECORDED

FEEDER CIRCUIT 11B AS RECORDED







SITE KEY PLAN

RRC

RRC POWER & ENERGY, LLC 7662 SW MOHAWK ST, TUALATIN, OR 97062 PHONE: (503) 342-4064 www.RRCcompanies.com

PREPARED FOR:



# MARSHALL SOLAR, LLC

## NOTES

| 1. | USE 811 "ONE CALL" TO LOCATE ALL UNDERGROUND UTILITY.                               |
|----|---|
| 2. | UTILITIES LOCATED WITHIN CONSTRUCTION AREA NEEDS TO BE VERIFIED THEY ARE ABANDONED. |

3. ALL TRANSMISSION LINE EASEMENT CROSSINGS ARE DIRECT BURIED AND INSTALLED PERPENDICULAR TO T-LINE.

## LEGEND

|                      | PROJEC             |
|----------------------|--------------------|
|                      | AS REC             |
|                      | SOLAR E            |
| <u> </u>             | FENCE              |
|                      | ROAD               |
|                      | DRAINA             |
| OH                   | OVERHE             |
|                      | INVERTE            |
| PC                   | POWER              |
| SM24                 | FIBER O<br>SINGLE  |
| <b>A</b><br>E-450-01 | DETAIL L<br>ANOTHE |
| •                    | GROUNI             |
|                      |                    |

## PROJECT BOUNDARY

AS RECORDED FEEDER CIRCUIT 1A AS RECORDED FEEDER CIRCUIT 1B AS RECORDED FEEDER CIRCUIT 2A AS RECORDED FEEDER CIRCUIT 2B SOLAR BLOCK BOUNDARY

ROAD

DRAINAGE TILES

OVERHEAD POWER LINE

INVERTER

POWER CABLE FIBER OPTIC CABLE SINGLE MODE 24 FIBER COUNT DETAIL LOCATED ON ANOTHER DRAWING

**GROUND POINT** 

## RECORD DRAWING

THIS AS-RECORDED DRAWING WAS PRODUCED BASED ON FIELD CHANGES MADE AND RECORDED BY THE CONTRACTOR. THIS DRAWING RELIES ON THE INFORMATION PROVIDED BY THE CONTRACTOR AND IT HAS NOT BEEN VERIFIED BY THE ENGINEER-OF-RECORD.

| 4                   | 09/07/2017 | AS-RECORDED              |
|---------------------|------------|--------------------------|
| 3                   | 08/30/2017 | AS-RECORDED              |
| 2                   | 12/19/2016 | AS-RECORDED              |
| 1                   | 08/03/2016 | ISSUED FOR CONSTRUCTION  |
| 0                   | 01/11/2016 | ISSUED FOR CONSTRUCTION  |
| REV                 | DATE       | ISSUE DESCRIPTION        |
| PRC                 | JECT MGR:  | S. MOSER                 |
| CHE                 | ECKED BY:  | R. BALYON                |
| DES                 | GIGNED BY: | N. WEHNER                |
| DRA                 | WN BY:     | J. MOFFIT                |
| SCALE: 1" = 150'-0" |            |                          |
|                     | 0          | 2"                       |
|                     |            |                          |
|                     | BAR MUS    | T SCALE 2" FOR FULL SIZE |

OR 1" FOR HALF SIZE DRAWING

PROJECT NUMBER: MD1502008 DRAWING NAME:

## MARSHALL

## SOLAR PROJECT AC CABLE LAYOUT **DETAIL SECTION 1**

DATE ISSUED: 12/19/2016 DRAWING No.

SHEET: REVISION 1 of 3

4

CADFILE: MMSP-E-401-01

E-401-01

#### STATE OF MINNESOTA BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

| In the Matter of the Application      | ) |              |
|---------------------------------------|---|--------------|
| of Marshall Solar, LLC for a          | ) | CERTIFIC     |
| Site Permit for the Marshall Solar    | ) |              |
| Energy Project and Associated         | ) | OAH Docket N |
| Facilities in Lyon County, Minnesota) | ) | MPUC Docket  |

## **CERTIFICATE OF SERVICE**

DAH Docket No.: 82-25000-32499 MPUC Docket No.: IP-6941/GS-14-1052

The undersigned hereby certifies that a true and correct copy of the Marshall Solar,

LLC's Application for Minor Alteration has been served on this day by e-mail and/or U.S.

Mail to the following:

| NAME              | EMAIL                                | ADDRESS  | SERVICE    |
|-------------------|--------------------------------------|--|------------|
| Court Anderson    | canderson@hensonefron.com            | Henson & Efron<br>220 South Sixth Street, Ste. 1800<br>Minneapolis, MN 55402-4503                            | Electronic |
| Julia Anderson    | julia.anderson@ag.state.mn.us        | Office of the Attorney General –<br>DOC<br>1800 BRM Tower<br>445 Minnesota Street<br>St. Paul, MN 55101-2134 | Electronic |
| Barbara Case      | barbara.case@state.mn.us             | Office of Administrative<br>Hearings<br>600 N. Robert Street<br>St. Paul, MN 55101                           | Electronic |
| Leigh Currie      | lcurrie@mncenter.org                 | Minnesota Center for<br>Environmental Advocacy<br>28 E. Exchange Street, Suite 206<br>St. Paul, MN 55101     | Electronic |
| Ian Dobson        | Residential.Utilities@ag.state.mn.us | 85 7 <sup>th</sup> Place E<br>Suite 280<br>Saint Paul, MN 55101-2198   | Electronic |
| Sharon Ferguson   | sharon.ferguson@state.mn.us          | Department of Commerce<br>85 – 7 <sup>th</sup> Place East, Ste. 500<br>St. Paul, MN 55101-2198               | Electronic |
| Dave Frederickson | Dave.Frederickson@state.mn.us        | 625 North Robert Street<br>Saint Paul, MN 55155-2538   | Electronic |

| Andrew Gibbons       | andrew.gibbons@stinson.com  | Stinson, Leonard, Street LLP<br>150 S. 5 <sup>th</sup> Street, Suite 2300<br>Minneapolis, MN 55402   | Electronic |
|----------------------|-----------------------------|--|------------|
| Emerald Gratz        | emerald.gratz@state.mn.us   | Office of Administrative<br>Hearings<br>PO Box 64620<br>St. Paul, MN 55164-0620                      | Electronic |
| Stacy Kotch          | Stacy.Kotch@state.mn.us     | Minnesota Department of<br>Transportation<br>395 John Ireland Boulevard<br>St. Paul, MN 55155        | Electronic |
| Brian Meloy          | brian.meloy@stinson.com     | Stinson, Leonard, Street LLP<br>150 S. 5 <sup>th</sup> Street, Suite 2300<br>Minneapolis, MN 55402   | Electronic |
| Kevin Mixon          | kevin.mixon@state.mn.us     | Department of Natural Resources<br>261 Hwy 15 South<br>New Ulm, MN 56073                             | Electronic |
| Janet Shaddix Elling | jshaddix@janetshaddix.com   | Shaddix and Associates<br>Suite 122<br>9100 W. Bloomington Fwy<br>Bloomington, MN 55431              | Electronic |
| Brandon Stankiewicz  | brandon.stankiewicz@nee.com | NextEra Energy Resources, LLC<br>700 Universe Boulevard<br>Juno Beach, FL 33408                      | Electronic |
| Vicki Vien           | vvien@hensonefron.com       | Henson & Efron<br>220 South Sixth Street, Ste. 1800<br>Minneapolis, MN 55402-4503                    | Electronic |
| Daniel P. Wolf       | dan.wolf@state.mn.us        | Public Utilities Commission<br>121 – 7 <sup>th</sup> Place East, Ste. 350<br>St. Paul, MN 55101-2147 | Electronic |

Dated this 26th day of September 2017

*/s/ Dylan M. Stanek* Dylan M. Stanek