**City Council Agenda Memo** 





Meeting Date:	May 5, 2025
Submitter:	Patrick Ainsworth, AICP Community and Economic Development Director
Department:	Community & Economic Development
Agenda Item:	Discussion of Special Use and Variation Application for 501 Caton Farm Road

### **Summary:**

Verde Engineering, on behalf of Hendrickson USA, LLC (the Applicant) appeared before the Plan Commission (PCZBA) on April 24, 2025, requesting a Special Use Permit and Variations for the construction and operation of a solar array for the property located at 501 Caton Farm Road.

The project encompasses a 4.8-acre portion of the Applicant's western parcel (PIN 11-04-33-100-002-0000) to construct a solar array and an emergency vehicle only access road to assist emergency vehicles gaining access to this solar array if an emergency related event occurs. The power generated from the solar array will help generate electricity for the Hendrickson USA facility on the eastern parcel (PIN 11-04-33-100-003-0000). After the Applicant presented the case to the PCZBA at the April 24, 2025, Special Plan Commission Meeting, the PCZBA made a favorable recommendation on the new Special Use Permit and Variation requests.

The recommendation from the Plan Commission included the following 10 (ten) conditions:

- 1. That the drawings submitted for a building permit shall be in substantial compliance with the drawings approved by City Council and identified below, unless otherwise noted in the remaining conditions:
  - Solar Ground Mount System Plans Engineered by PurePower Engineering last dated 3/28/2025
  - Stormwater Management Permit Details Prepared by Hey and Associates Inc. Last Dated April 15, 2025
  - Structural Detail Drawings Created by DCE Solar Sheets 1 through 5 Last Dated 3/6/2025
  - Landscape Plans Created by Hey and Associates Inc. Last Dated 3/31/2025
- 2. The gravel driveway and loading area in the front of the accessory building on the property with the Permanent Index Number of 11-04-33-100-002-0000 shall receive a permit to transition this surface material to an approved surface material to be in compliance with Zoning Ordinance Section 11.6-1 and follow applicable construction standards. This specific area includes the driveway entrance from Caton Farm Road leading to the accessory building as well as to the gates of the solar array area. This permit shall be issued before May 19, 2026.

City Council Work Session May 5, 2025 501 Caton Farm Road

- 3. The emergency access road containing the 3/4" limestone surface material shall be improved with a base material and construction method approved by the City Engineer. All details of the materials and construction methods shall be submitted with the building permit application for the solar array.
- 4. The thickness of stone for the temporary construction access road should be at least two inches thick.
- 5. Prior to permit issuance for the solar array the structural calculations report provided with through submittal will need to be signed and stamped by a Licensed Structural Engineer.
- 6. A Fire Truck Turning Performance Analysis shall be provided for review and approval as part of the building permit application submittal for the solar array.
- 7. If any new outdoor lighting is being proposed with this project, then a Photometric Plan shall be provided at time of submitting a building permit application to ensure compliance with applicable codes and regulations.
- 8. All required final design drawings and related supporting project information shall be submitted for final engineering review and approval in conjunction with the formal building permit application submitted for the solar array.
- 9. All new shade trees, ornamental trees, and evergreen trees proposed on north of the solar array shall be planted with a minimum height of six feet and a minimum of 2.5" caliber at time of planting.
- 10. All conditions made with this Ordinance shall be transferred to any new property owner.

**Recommended Council Action:** Community Development staff recommends that the City Council allow the subject Ordinance go on the May 19, 2025 Regular Meeting Agenda for final consideration.

## Attachments:

- Attachment A Special Use and Variance Application
- Attachment B April 24, 2025 Special Plan Commission Meeting Transcript
- Attachment C Special Use Ordinance (with associated Exhibits)

Attachment A

City of Crest Hill Development Handbook

Appendix C



# Application for Development

For Office Use	Only: Case Number:
Project Name: Hendrickson U	SA - Solar PV
Owner: Hendrickson USA LLC	Correspondence To: Grace Rasmussen, Verde Solution
Street address:	Street address:
City, St., Zip:	City, St., Zip:
Phone:	Phone:
Email:	Email:
Property Address: Street address:	Property Information: Lot Width: <sup>830.038 ft</sup>
City, St., Zip: Crest Hill, IL 60441	Lot Depth: 629.428
PIN: 11-04-33-10-002	Total Area: 549350.8329 sq ft (12.61 acres)
*Submit an electronic version of th buildingdepartment@cityofcresthil	e legal description only in a Word document to: I.com
Existing Zoning:	Existing Land Use: General Manufacturing District
Requested Zoning: <u>M2</u>	Proposed Land Use: General Manufacturing District
Adjoining Properties Zoning and U North of Property: <u>11-04-28-100-003</u>	
South of Property: 11-04-33-100-0	006 Commonwealth Edison Co
East of Property: <u>11-04-33-10-003</u>	B Hendrickson USA LLC
West of Property: <u>11-04-33-100-0</u>	

Purpose Statement (intended use and approval sought):

Install 1.18 MW of fixed tilt ground mounted solar contained within a fence. Total area with fence is approximately 4.7 acres. The solar array is set back approximately 180 feet from Caton Farm Road. **Development Request:** Please check all that apply and describe:

[] Rezoning:		
[X] Special Use: Ground Mounted Solar PV		
[ ] Variance:		
[ ] Planned Unit Development:		
[ ] Annexation:		
[ ] Plat:		
[ ] Other:		
<b>Contact Information</b> – If not yet known, please indicate all correspondences should be forwarded.	e as TBD. Check those parties in which copies of	
[ ] Civil Engineer:	_Phone:	
Company:	Email:	
[X] Contractor: Grace Rasmussen	Phone:	
Company: Verde Solutions LLC	Email:	
[ ] Architect:	_ Phone:	
Company:	Email:	
[ ] Builder:	Phone:	
Company:	Email:	
I agree to be present (in person or by counsel) when the Plan Commission and City Council hear this development request.		
Grace Rasmussen Signature of the Applicant	3/10/2025	
Signature of the Applicant	Date	
If you (the applicant) are not the owner of record, please provide the owner's signature.		
Cli Zo	03/14/25	

Signature of the Owner

Date

# Attachment B

CREST HILL PLAN COMMISSION

APRIL 24, 2025

#### REPORT OF PROCEEDINGS had in the

above-entitled matter, at 20600 City Center Boulevard, Crest Hill, Illinois, commencing at 7:00 o'clock p.m. on the 24th day of April, 2025.

BEFORE:

Bill Thomas, Chairman John Stanton, Commissioner Marty Flynn, Commissioner Angelo DeSerio, Commissioner Jeff Peterson, Commissioner Ken Carroll, Commissioner Cheryl Slabozeski, Commissioner Patrick Answorth, Community/Economic Development Director Samantha Tilley, Executive Secretary Mike Stiff, City Attorney

PRESENT:

Chris Batsch, Hendrickson USA LLC Grace Rasmussen, Verde Solutions

\* \* \* \*

# Page 1

Page 2 1 CHAIRMAN THOMAS: Okay. Welcome. Τ would like to call the April 24th, 2025 Special 2 3 Plan Commission Meeting to order at 7:00 p.m. 4 If you're able, please rise for the 5 Pledge of Allegiance. 6 (Pledge of Allegiance.) CHAIRMAN THOMAS: Thank you. May we have 8 the roll call, please? 9 SAMANTHA TILLEY: Bill Thomas? 10 CHAIRMAN THOMAS: Here. 11 SAMANTHA TILLEY: Ken Carroll? 12 COMMISSIONER CARROLL: Here. 13 SAMANTHA TILLEY: Cheryl Slabozeski? 14 COMMISSIONER SLABOZESKI: Here. 15 SAMANTHA TILLEY: Angelo DeSerio? 16 COMMISSIONER DESERIO: Here. 17 SAMANTHA TILLEY: Jeff Peterson? 18 COMMISSIONER PETERSON: Here. 19 SAMANTHA TILLEY: Marty Flynn? 20 COMMISSIONER FLYNN: Here. 21 SAMANTHA TILLEY: John Stanton? 22 COMMISSIONER STANTON: Here. 23 CHAIRMAN THOMAS: Okay. Thank you. 24 First order of business is to approve the

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1	minutes from our previous two meetings. Can I
2	have a motion, please, to approve the minutes from
3	the Plan Commission meeting held on
4	March 13th, 2025?
5	COMMISSIONER DESERIO: So moved.
6	CHAIRMAN THOMAS: Motion by Angelo
7	DeSerio and
8	COMMISSIONER PETERSON: Second.
9	CHAIRMAN THOMAS: Commissioner
10	Peterson.
11	A roll call, please.
12	SAMANTHA TILLEY: Angelo DeSerio?
13	COMMISSIONER DESERIO: Yes.
14	SAMANTHA TILLEY: Jeff Peterson?
15	COMMISSIONER PETERSON: Yes.
16	SAMANTHA TILLEY: Marty Flynn?
17	COMMISSIONER FLYNN: Yes.
18	SAMANTHA TILLEY: John Stanton?
19	COMMISSIONER STANTON: Yes.
20	SAMANTHA TILLEY: Ken Carroll?
21	COMMISSIONER CARROLL: Yes.
22	SAMANTHA TILLEY: Cheryl Slabozeski?
23	COMMISSIONER SLABOZESKI: Yes.
24	SAMANTHA TILLEY: And Bill Thomas?

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CHAIRMAN THOMAS: Yes.
SAMANTHA TILLEY: Motion carried.
CHAIRMAN THOMAS: And now can I have a
motion to approve the minutes from the Plan
Commission Meeting held on March 27, 2025? Was
that a special?
SAMANTHA TILLEY: Yes.
CHAIRMAN THOMAS: Better put special on
the title there. Special Plan Commission Meeting.
COMMISSIONER CARROLL: So moved.
CHAIRMAN THOMAS: Motion by Commissioner
Carroll.
COMMISSIONER PETERSON: Second.
CHAIRMAN THOMAS: Second by Commissioner
Peterson.
Roll call, please.
SAMANTHA TILLEY: Ken Carroll?
COMMISSIONER CARROLL: Yes.
SAMANTHA TILLEY: Jeff Peterson?
COMMISSIONER PETERSON: Yes.
COMMISSIONER FLYNN: Yes.
SAMANTHA TILLEY: Marty Flynn?
COMMISSIONER FLYNN: Yes.
SAMANTHA TILLEY: John Stanton?

1 COMMISSIONER STANTON: Yes. 2 SAMANTHA TILLEY: Cheryl Slabozeski? ٦ COMMISSIONER SLABOZESKI: Abstain. 4 SAMANTHA TILLEY: Angelo DeSerio? 5 COMMISSIONER DESERIO: Yes. 6 SAMANTHA TILLEY: And Bill Thomas? 7 CHAIRMAN THOMAS: Yes. 8 SAMANTHA TILLEY: Motion carried. 9 CHAIRMAN THOMAS: Okay. Next item is new 10 business. We have one case on the agenda for 11 tonight, a public hearing and consideration of 12 Case SU-25-2-4-1, a request of Hendrickson USA LLC 13 seeking approval for a special use permit and 14 variations for a new solar array, which is 15 classified as a utility facility under the Crest 16 Hill Zoning Ordinance on a 4.8-acre area of land 17 in an M-2 general manufacturing district located 18 at 501 Caton Farm Road in Crest Hill, Illinois. 19 Samantha, is all the paperwork in order? 20 SAMANTHA TILLEY: The necessary paperwork 21 is in order. 22 CHAIRMAN THOMAS: Okay. Thank you. 23 Then I would like to have a motion to 24 open the public hearing for Case SU-25-2-4-1.

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	Page 6
1	Motion, please.
2	COMMISSIONER DESERIO: So moved.
3	CHAIRMAN THOMAS: Motion by Commissioner
4	DeSerio.
5	COMMISSIONER SLABOZESKI: Second.
б	CHAIRMAN THOMAS: Second by Commissioner
7	Slabozeski.
8	Roll call, please.
9	SAMANTHA TILLEY: Angelo DeSerio?
10	COMMISSIONER DESERIO: Yes.
11	SAMANTHA TILLEY: Cheryl Slabozeski?
12	COMMISSIONER SLABOZESKI: Yes.
13	SAMANTHA TILLEY: Ken Carroll?
14	COMMISSIONER CARROLL: Yes.
15	SAMANTHA TILLEY: John Stanton?
16	COMMISSIONER STANTON: Yes.
17	SAMANTHA TILLEY: Jeff Peterson?
18	COMMISSIONER PETERSON: Yes.
19	SAMANTHA TILLEY: Marty Flynn?
20	COMMISSIONER FLYNN: Yes.
21	SAMANTHA TILLEY: And Bill Thomas?
22	CHAIRMAN THOMAS: Yes.
23	SAMANTHA TILLEY: Motion carried.
24	CHAIRMAN THOMAS: Public hearing is

<sup>1</sup> opened at 7:03 p.m.

2	Again, this hearing is to discuss case
3	SU-25-2-4-1. So I would now like to ask our
4	Community and Economic Development Director Pat
5	Answorth to present the specifics of the case.
6	MR. ANSWORTH: Thank you, Chairman.
7	Can you hear me okay? Okay. I'll be
8	actually brief.
9	The petitioner has prepared a very
10	thorough presentation, but, as presented tonight,
11	there's one special use and one variation from the
12	zoning ordinance and a deviation from the City
13	code for the driveway.
14	The subject property actually consists of
15	two pins, there's the manufacturing facility on
16	the eastern pin, which the subject the
17	applicant has been at that subject site for nearly
18	50 years. They have committed to investing in
19	this property and including alternative energy,
20	hence the solar array on the western site, and
21	part of their grant part of their application
22	mentioned that the part of a grant from the
23	state of Illinois, so this will actually help
24	power their all their facilities for their

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1 annual needs. It's approximately 1. -- I think --2 8 megawatts of power. So hence that size creates a unique size of this project. Our community and 3 4 economic development consultant, Ron Mentzer, was 5 working with them before my tenure and determined 6 it was a special use. As part of that special use 7 process we looked at the entire site and were kind 8 of working with them on their driveway on the 9 eastern pin, it exceeds 30 feet, so if they ever 10 go to repave that property, tonight's applications 11 kind of protect that driveway, they can just go 12 straight to permit, and hence that's the, again, 13 deviation being requested.

14 The other variation is we were working 15 closely with the Lockport Fire Protection 16 District. This is, again, a unique circumstance. 17 We do not have a solar array of this size, so, 18 from a life-saving perspective, even though this 19 is an unmanned area, our Fire Protection District 20 thought it would be necessary to gain access to 21 this property, but because this area is just north 22 of a wet -- of a floodplain area and they're not 23 required to do any storm water detention, we 24 worked with them carefully to craft a design of

1 this road that you'll see in the site plan later 2 tonight of limestone -- it's a three quarter stone lined with limestone material. Our City engineer 3 4 was closely working with their engineering firm 5 and the Fire Protection District to create that. 6 Our City code requires driveways, drive aisles, 7 parking areas to be paved. Storage areas for 8 heavy equipment can be gravel. So this an 9 emergency vehicle only access road. It's tucked 10 180 feet back from Caton Farm Road. It's tucked 11 behind a landscaped area, and then it will be 12 further protected by additional landscaping that 13 you'll see on the landscape plans.

<sup>14</sup> So the variation is for the material <sup>15</sup> itself, but because this is a locked facility, <sup>16</sup> fenced facility and just for the Lockport Fire <sup>17</sup> Protection District, and perhaps some maintenance <sup>18</sup> down the road, Staff is supportive of the unique <sup>19</sup> circumstance to grant that variation.

As you can see on pages 3, there's a (inaudible) regulation analysis for the zoning ordinance. I'm not going to go through all of it, but they're in compliance except for the gravel material -- the limestone material, and then in

1 compliance with the comprehensive plan there was 2 an analysis on page 4, and then, finally, with Staff support, there is ten conditions that I 3 don't want to read, but if you need me to, I can, 4 5 just to make sure that we help this development 6 maintain a high level of standards and design. 7 And I'm happy to answer any questions if you so 8 have any. 9 CHAIRMAN THOMAS: Any questions for Pat 10 at this time? 11 Okay. Thank you, Pat. 12 Okay. So I guess we're going to start 13 off with Chris from Hendrickson --14 CHRIS BATSCH: Yes. 15 CHAIRMAN THOMAS: -- USA LLC. 16 Are you going to sit there or... 17 CHRIS BATSCH: That would be preferred. 18 If you CHAIRMAN THOMAS: That's fine. 19 could just stand enough to raise your right hand. 20 CHRIS BATSCH: Okay. 21 CHAIRMAN THOMAS: In fact, why don't you 22 both stand? I'll swear you both in and then we 23 won't have to go through that again. 24

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1	(Chris Batsch and Grace Rasmussen duly sworn.)
2	CHAIRMAN THOMAS: Okay. Thank you.
3	Take it away, Chris.

CHRIS BATSCH: All right.

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<sup>5</sup> Good evening, everybody, and thank you <sup>6</sup> for hosting this event, for scheduling the kind of <sup>7</sup> special meeting for us to get together and talk <sup>8</sup> about this.

9 My name is Chris Batsch. I'm the general 10 manager at Hendrickson Bumper, almost right across 11 the road from you guys here in Crest Hill. I have 12 been with Hendrickson for about 15 years. I have 13 been at the bumper division here in Crest Hill for 14 almost three years. I did want to start off just 15 with a brief overview of Hendrickson, and I know 16 most in the room probably aren't very familiar 17 with what Hendrickson does, and a little bit of 18 background, and then I'll turn it over to Grace 19 from Verde Solutions who is the solar installer to 20 give a little bit more detail.

Just to kind of give a quick overview. Hendrickson is a corporate company. We have been around for about 100 years. We have always been focused on the truck industry. We

1 actually started off at the beginning 2 manufacturing trucks for the trucking 3 industry, and then eventually we evolved into 4 focusing more on part -- part or sub-system 5 supply to the heavy truck industry. Our main б focus is suspension, axles, trailer axles, 7 leaf springs, blast (inaudible) components, 8 and probably, to my team in the room, most 9 importantly the bumpers, which is what's made 10 right down the road.

11 A little quick overview of the 12 company. So the company is family owned. We 13 are privately held. So it -- we do keep most 14 of our information pretty close to our vests, 15 so if there are questions regarding the 16 company, we'll try to answer it as best as we 17 We are owned by the Boler company, which can. 18 is a family-owned company. They're 19 structured -- or headquartered up in 20 Schaumburg, Illinois. Globally we have about 21 6,000 employees, about 30-plus locations 22 worldwide. Most of the locations that we have within our facilities are there to provide 23 24 in-country manufacturing and supply to our

1 customers. So if you look at what Hendrickson 2 USA mainly does, we export more than we import 3 from that perspective. We have six brands 4 across all of our divisions. Several of these 5 brands actually supply components within б Hendrickson. So I realize that it's a little 7 bit of a complicated structure for the 8 company, but just want to give a little 9 background regarding the whole company as a 10 whole.

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11 Jumping into our division that's at the 12 Crest Hill facility. We are the Hendrickson 13 bumper division. So we have about 150,000 14 square feet, and that's divided over two 15 facilities. We have Crest Hill and a facility 16 in Dayton, Ohio. The Dayton, Ohio facility is 17 primarily just a distribution center, so parts 18 go in and out of that facility, there's not 19 any manufacturing. All of the manufacturing 20 that we do is here at the Crest Hill facility. 21 We currently run -- excuse me. Here in Crest 22 Hill we currently run a two shift operation. 23 We have about 90 people on staff between those 24 two shifts. Majority of our staff is on the

first shift.

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2 I think Patrick kind of alluded to that 3 Hendrickson has been a part of the community 4 for a very long time, close to 50 years. The 5 Hendrickson company acquired that facility б back in 1977, so we have been embedded into 7 Crest Hill since 1977. We have all the functional support functions within that 8 9 facility. We do not rely on our corporate 10 divisions for most of our day-to-day 11 activities, so we do have operations, 12 engineering, quality, marketing, all of those 13 aspects that are under one roof. We are a 14 Tier 1 supplier to most of the OEMs, and I'll 15 jump into a little bit more detail to shed a 16 little bit more light on kind of what kind of 17 products that we do and what our specialty is. 18 We do make about 100,000 bumpers a year. Τf 19 you're familiar with the Class A industry or 20 the heavy truck industry it's anywhere from 21 250- to 300,000 trucks that are made a year 22 just to put that in perspective. 23 The core values at our facility. No. 1

priority is safety, No. 2 is quality, and then

innovation. When we look at the competitive
 market of the bumper field, we are leading the
 way in innovation, and the next step for us is
 from a sustainability aspect, which is why
 we're here today.

6 We do hold several certifications within 7 this facility. IATF, which is a quality process control standard that we do hold, that 8 9 is the highest level for our industry. ISO 14001, that is an environmental standard 10 11 that we are certified to. VPP Star certification. This is an OSHA funded program 12 13 or an OSHA provided program. We are the only 14 manufacturer within North America that is --15 that has been awarded this certification. 16 This certification is for companies that go 17 above and beyond the minimum standards for 18 safety, and we -- we -- sorry, for safety and 19 proactive things that we do towards the safety 20 of the employees. The last one that we have 21 is Great Places to Work certified. This is 22 another one that we just recently got. This 23 involves the culture of -- and the voice of 24 the employees. So we currently are the only

company within Crest Hill that has that
 certification. And I forgot to add, for the
 VPP OSHA, we are also the only company in
 Crest Hill that has obtained that
 certification.

6 I won't go through all the details of 7 what we do. The equipment that we have on 8 site, there's a lot of equipment, a lot of big 9 equipment that we have behind those walls at 10 our facility, most of it for stamping and 11 forming operations of bumpers. The big 12 takeaway of what we have here, every single 13 one of these pieces of equipment requires a 14 massive amount of electricity. These are 15 energy hogs. There's -- even though we are 16 investing in bringing them up to the latest 17 technology, they still require a lot of energy 18 to take big pieces of metal and form them into 19 the shape of bumpers for our customers.

Just to give a you little -- I guess a snapshot of what we do. All of these products that you see on the screen are just a little bit of a sample of what we manufacture out of that facility. We do anything from school

1 buses to garbage trucks to cement trucks to on 2 the highway. We -- pretty much if it's a 3 metal bumper that's out there on the road, 4 most likely we manufactured it here at that 5 facility. We do a variety of finishes. Most 6 of these are customer spec driven, but we --7 we do a lot of bumpers that go through the 8 facility.

9 The main reason what prompted this 10 project was driven by the customers. 11 Hendrickson has a lot of internal sustainability goals, but our customers are 12 13 even more demanding than what we initially 14 started off with our sustainability goals. In 15 the last five years several customers have 16 taken the requirement that the companies have 17 to have advancement in sustainability and 18 targets towards carbon neutral to be able to 19 be awarded new business. So this is something 20 that we made a commitment to our customers 21 that we would -- we would go after and pursue. 22 As I mentioned, a lot of our equipment is 23

electric driven; the presses, the robots, the
 laser cutters, all of that is -- is utilizing

1 electricity. So our biggest opportunity for the next step towards carbon neutrality is electricity. So that's the main reason why we wanted to go after the solar.

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5 So back in 2002 -- or, sorry, 2022 we б created this five-year major investment plan 7 that we presented to the board of directors. 8 A lot of this involves new equipment, but it 9 also aligns with the sustainability goals of 10 the customers. All of this with the intent of 11 maintaining our position here in Crest Hill 12 and growing our business here across the 13 industry. So, as a result of what we put 14 together, including our commitment to our 15 customers that we were going to install a 16 solar, we're currently facing about a 50 17 percent growth for that facility. If you go 18 back and you look at the history of the 19 facility, the facility has not seen that level 20 of growth ever since we started that business. 21 So we are in -- on the brink of a very massive 22 growth plan that we are going through and 23 executing. All of this is a result of all the 24 investment that we put forward, the

sustainability aspects, and the customers and in alliance with our customers' goals.

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Just a little bit about some of the recent investments that were included in this five year plan.

б High tonnage deep draw presses. For 7 those of you -- I definitely welcome anybody 8 to come by and stop in for a tour. The 9 equipment that we have are just massive pieces 10 of machine. Most of the press beds that we 11 have can fit a full size car inside the press 12 So the full size equipment is 20, 30 beds. 13 feet tall, a couple hundred thousand pounds, 14 so we're talking about very big equipment that 15 uses a lot of electricity. We completed the 16 building expansion, some of you may or may not 17 be aware of that, on the backside of the 18 building that we were able to increase our 19 capacity. We added in a fiber high speed 20 laser that was recently commissioned. We have 21 another deep draw press that's currently being 22 installed within the next couple months, a 23 robotic buffing cell, and the last piece of 24 this equation for what we're working on right

now is the solar field.

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2 So the result of all of these is not only 3 increasing our capabilities, but it's also 4 increasing our sustainability. We're trying 5 to maintain our leader -- our leader position 6 within the bumper industry and this is only 7 going to further separate us from our 8 competition and drive more business towards 9 our facility.

10 I wanted to talk a little bit about the 11 selection process here with Verde just to kind 12 of give you guys a little bit of reassurance 13 that we did do our due diligence, that this 14 wasn't something that we picked out of the 15 back of the Yellow Pages, we actually went 16 through a fairly -- fairly thorough vetting 17 process.

We started off with four major solar
 installers that do commercial solar
 installation here within the Chicagoland. We
 established several requirements; engineering
 and installation to be a one-stop shop.
 Surprisingly, as we learned, that's pretty
 rare within the solar industry. There's not

1 many companies that do these together. Most 2 of them outsource one or the other. We wanted one person to be able to call if there's a 3 4 problem with the engineering, the 5 installation, the service, the warranty, б everything all in one spot. We wanted 7 somebody local that was within 100 miles that 8 could be on site as needed. We also wanted to 9 demonstrate local performance. I think Grace 10 will touch on a few of those in her 11 presentation that she'll share with you. We 12 went out to some of these locations, spoke to 13 the installation team, some of these are 14 cities that develop some of these that Grace 15 will talk through. We also needed help with 16 the incentives. If you're not in the solar 17 industry, it's a little daunting to go through 18 all of the -- the different -- the building 19 permits, the incentives, all the requirements 20 to be able to meet those. And also subject 21 matter knowledge. Not just with the solar, 22 but also all the other aspects that come along 23 with it. For example, Patrick referenced the 24 fire code and what is the requirements for

those. We wanted people with those expertise.

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When we got through all of the RFQs, we found that Verde was the only company that checked all those boxes, and they were -- and they were very well reputable in all of them, so that's why we decided to select Verde.

7 So as we pulled together the business 8 case, we presented to our board of directors. 9 As we have progressed this, it has been almost 10 eight months since we presented the solar 11 field to the Board of Directors and received their approval. We have been trying to make 12 13 sure that we meet the timing that we committed 14 to on the Board of Directors. A lot of this 15 is tied to very tight timing on the solar 16 incentives, whether it's state, federal, 17 there's a wide range. I think also a utility 18 A lot of these have pretty strict one. 19 timelines, and as time progresses these are 20 not linear events, they are flip events for 21 the amount of funding that changes at certain 22 time periods.

<sup>23</sup> So really what we wanted to stress to <sup>24</sup> this -- to this group here is the balance of

everything that we tied together with the investment cost, the timing, the incentives, the payback, all of that was factored into this, so we definitely appreciate you guys taking this time to meet with us under this circumstance.

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7 So, in summary, before I turn it over 8 to Grace, Hendrickson is dedicated to 9 advancing our manufacturing technology and 10 sustainability. We know that this will be the 11 next step to put us completely at the leader 12 board for our industry, for where we're 13 looking to go long term. We're also dedicated 14 to investing into Crest Hill. The amount of 15 money that has been dumped into this facility 16 is probably equivalent in the -- within the 17 last three or four years is equivalent to the 18 last 15 years prior. So the -- the Boler 19 family, the Hendrickson company is dedicated 20 to adding jobs here within Crest Hill, making 21 major investments and advancing our 22 technology.

The last thing, just as we advance this technology and sustainability, we have full

<sup>1</sup> confidence this is only going to further grow
 <sup>2</sup> our business and bring more jobs to the
 <sup>3</sup> community.

<sup>4</sup> So, with that, any questions for me <sup>5</sup> regarding Hendrickson before Grace kind of <sup>6</sup> steps in?

<sup>7</sup> CHAIRMAN THOMAS: I'm just kind of <sup>8</sup> curious, with all this talk going around these <sup>9</sup> days about tariffs and you relying on export <sup>10</sup> business so much, how does any of that affect your <sup>11</sup> business?

12 MR. BATSCH: At the corporate level it 13 definitely does. That's more of an impact. Our 14 division, the bumper division, 98 percent of ours 15 is picked up by U.S. based customers. So we are 16 not faced with the tariffs as much, which 17 definitely puts us in a greater position versus 18 our competitors that are outsourcing a lot of 19 these, whether it's the paint or the chrome 20 process or things like that that are being 21 outsourced across the borders.

<sup>22</sup> So, from our standpoint, we are very well <sup>23</sup> positioned from the tariff aspect because all of <sup>24</sup> our processes are here in the U.S., and then all

Page 25 1 of our customers are also here in the U.S., 2 they're U.S. based customers. So, great question, 3 but we think the impact is going to be very 4 minimal to us. If anything, it's going to be 5 favorable to Hendrickson. 6 CHAIRMAN THOMAS: Okay. Thank you. 7 COMMISSIONER SLABOZESKI: I'm just 8 curious what the cost savings would be by using 9 solar panels. 10 CHRIS BATSCH: Being that -- I don't 11 think I can share that number. 12 COMMISSIONER SLABOZESKI: Okay. 13 CHRIS BATSCH: Being a privately held 14 company with the amount of -- the amount of 15 electricity that we're going to be saving, yeah, 16 unfortunately I can't share that. 17 COMMISSIONER SLABOZESKI: Okay. 18 CHAIRMAN THOMAS: Okay. Grace? 19 COMMISSIONER STANTON: I have a couple 20 questions. 21 It's a fantastic project and I'm excited 22 that we're having a solar panel farm. Reading 23 through this report on page 30 regarding system 24 removal, not that you have any plans on removing

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1	it, but technology has been moving over time,
2	especially renewable energy
3	MR. BATSCH: Sure.
4	COMMISSIONER STANTON: However, atomic
5	energy is still in development
6	MR. BATSCH: Absolutely.
7	COMMISSIONER STANTON: And they can claim
8	that that is more energy efficient than the
9	renewable energy that is put out there, but my
10	concern with this regarding the system removal, it
11	says "during the system removal Verde will remove
12	all tangible property relating to the solar
13	system. The land will be restored to it's
14	original condition with the exception of buried
15	conduit."
16	Well, I don't like buried conduit. I'm
17	sure there's a lot of conduits underneath
18	CHRIS BATSCH: Sure.
19	COMMISSIONER STANTON: and I'm sure
20	using at least one inch piping or more, and that's
21	not good. It needs to be included to be removed.
22	CHRIS BATSCH: Sure. Yeah.
23	COMMISSIONER STANTON: For future
24	development in case if someone wants to do

excavation or do some development, you know, after
 it's being removed. Not that you have any plans
 to, but it should be removed.

4 CHRIS BATSCH: Understood. I think 5 that's acceptable to include in. From our 6 perspective, the solar disposal technology 7 continues to evolve almost on the daily basis on 8 what type of recyclability, that's why I think it 9 was difficult for us to really put together a plan 10 of what that would look like from a removal, a 11 disposal and the recyclability. We don't know 12 where this is going to -- what kind of technology 13 is going to be out there from the solar and, to 14 your point, maybe it's atomic that might be able 15 to evolve into a different -- a different use case 16 for that land.

17 From our side, I know Hendrickson, based 18 off of everything that we do, we typically go 19 after what is the most sustainable or 20 environmentally friendly option, and that is 21 everly changing from a day-to-day perspective. Τ 22 know Grace will touch on this a little bit, you 23 know, we will be working with Grace during the 24 terms of the warranty period and probably even

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<sup>1</sup> beyond that. So who knows what kind of technology
 <sup>2</sup> that Verde will have access to in 30 years, if we
 <sup>3</sup> even need to replace it at that time.

4 MS. RASMUSSEN: Yeah, just to add, the 5 solar panels are warrantyed for 30 years, so I 6 quess we'll have to see what happens in 30 years 7 and what Hendrickson wants to do. The solar 8 panels will continue to produce long after that, 9 it's just outside of the warranty, but, yeah, I 10 quess that's one bridge we'll cross when we get 11 there, but we will note the conduit removal.

12 COMMISSIONER STANTON: Okay. Okay. And 13 my next concern is the impervious gravel system. 14 There's -- people say that it's -- gravel while 15 it's -- what have you, is not impervious -- or it 16 is impervious, it's not pervious. Only because 17 over time gravel, stone, and what have you, settle 18 and it collects dirt, et cetera. So you would 19 have more and more runoff -- water runoff over a 20 period of time. Maybe you should investigate a 21 pervious draining system. I'm sure there's many 22 of them out there. I'm not too comfortable with 23 the gravel because you -- you do have equipment 24 driving on there. I would imagine the fire trucks

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Page 29 and what have you, if it's not compacted enough, 1 2 how is that going to support the trucks? 3 CHRIS BATSCH: Sure. 4 COMMISSIONER STANTON: Okay. And in any 5 event that they have to go and take the -- you 6 know, take out the fire, I'm not quite sure if the 7 gravel -- three quarter inch gravel system works 8 unless you -- you have a system in path that it's 9 going to work for 30 or more years. 10 PATRICK ANSWORTH: I'm going to chime in 11 if that's okay. 12 So our City engineer was in on the same 13 meeting with Grace and her team as well as the 14 Fire Protection District. There is an 15 underlayment that will be approved. There's a condition in here that will be approved as part of 16 17 the construction of this, and our City engineer 18 advised during this time to make sure that it's 19 compacted, but not too compacted to become 20 impervious to then require detention. Τf 21 detention was -- if impervious surfaces were going 22 to be mandated here, that would have triggered 23 detention requirements and made -- or not make 24 this project financially feasible.

Page 30 1 So you have our City engineer, with a lot 2 of experience, with the Fire Protection District, 3 with the Verde team designing this project as the 4 best alternative and the best scenario for the 5 presentation. 6 CHRIS BATSCH: Yeah. From our side we're 7 definitely open to that. The reason why that 8 proposal does include that is, as Patrick stated, 9 was recommended from the --10 PATRICK ANSWORTH: City engineer. 11 CHRIS BATSCH: -- one of the City 12 engineers. 13 From our side we also acknowledge that we 14 will need to maintain that road, so it's not put 15 it down once and let it go. This is one that we 16 will have to repeatedly, whether it's regrade, we 17 may have to resurface the gravel as well as the 18 three quarter inch loosely compacted that was 19 specified. So there will be maintenance required. 20 From our side I think that will be something that 21 we would work with the fire marshall to understand 22 that there is a point of degradation or any type 23 of concern from being able to support the weight 24 of the truck. Ultimately we hope the road never

<sup>1</sup> gets used.

2 COMMISSIONER STANTON: Okay. Well, I 3 have to believe that there are a pervious system, 4 like there's pavers where grass grows through it 5 and it supports the vehicles and what have you, 6 and you will need to cut lawn, anyway, around the 7 solar panels, so I would think it would be a less 8 of a maintenance. Yeah, it might be a little more 9 cost up front, but not as expensive as a pavement 10 like concrete or asphalt or what have you to 11 eliminate the detention pond and to minimize the water runoff, but I think there is a better 12 13 system, maybe it needs a little more 14 investigation, what's appropriate. Yes, the cost 15 is a factor in this, but I would like to see if 16 you can look into another alternative to a gravel 17 road.

<sup>18</sup> CHRIS BATSCH: I think we would be more <sup>19</sup> than happy to investigate anything that's <sup>20</sup> recommended by the City. I think the City <sup>21</sup> engineers probably have much more experience from <sup>22</sup> that aspect than we do. If you need a bumper we <sup>23</sup> can help you, but we're not very good at designing <sup>24</sup> gravel roads, but we were -- we would be more than

1 happy to entertain or quote anything that we 2 looked at. 3 One thing to keep in mind, we are talking 4 about a rather extensive amount of property that 5 we would have to put this down. I think the total 6 size is over four acres. I think it was 30, 7 33,000 -- how many feet all the way around? 8 UNIDENTIFIED SPEAKER: 40-something 9 thousand. 10 CHRIS BATSCH: 40 thousand square feet. 11 COMMISSIONER STANTON: That's quite a 12 bit. 13 CHRIS BATSCH: So it's a massive amount. 14 And, as Grace will point out, the other thing that 15 we have to consider is also turnaround points for 16 the fire trucks. So it's not just a ten-foot 17 wide, the fire truck has to be able to swing the 18 entire ladder around it, which made about 19 20 percent more road surface that would be 20 required out there. 21 So, from our perspective, we would 22 definitely entertain and quote anything that was 23 recommended as alternatives to that. 24 COMMISSIONER STANTON: I'm sure you quys

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Page 33 1 have a solution for it and looking forward to, you 2 know, to make it work. Just my request to take a 3 little more -- you know, scrutinize it a little 4 more --5 CHRIS BATSCH: Sure. 6 COMMISSIONER STANTON: -- so it doesn't 7 become a thorn in your gut --8 CHRIS BATSCH: Absolutely. 9 COMMISSIONER STANTON: -- as issues come 10 up later on, so... 11 CHRIS BATSCH: Thank you. 12 CHAIRMAN THOMAS: Anybody else? 13 Okay. Grace. 14 MS. RASMUSSEN: Okay. Thank you. 15 So this is a little bit more about Verde 16 Solutions. We were founded in 2012. We're based 17 out of Chicago downtown. Really we have done over 18 2,000 energy projects in 48 states. We have 19 in-house NABCEP certified, that's a solar 20 certification, and OSHA certification as well, and 21 then the biggest selling point for us is that we 22 do turn-key project delivery. So as soon as our 23 clients sign the contract, we handle it all the 24 way until the system is turned on, and then we

also provide post solar support once it is
 energized. And, as Chris mentioned to you, our
 install team is in-house, which, like he said, is
 rare in Chicago.

5 Here are some examples of similarly б completed projects. So we did one for Thelen 7 Sand and Gravel out in Lakemoor, this was at a 8 gravel pit. We did one for Minooka Waste 9 Water Treatment Plant butting up against the 10 residential neighborhood there, and then we 11 also had some landscaping and fencing required 12 you can see here. And then we also completed 13 the College of Lake County up in Grayslake. 14 This was a 13 roof system in addition to a 15 megawatt ground mount system.

Here is the plat of survey for
 Hendrickson. As Patrick noted, here is the - here is one pin where the main facility is
 located and then the other pin where the solar
 field will be located.

Here is the current site. This picture was taken October 10th, 2024 from our satellite software. There are some trees here that have since been cleared, and then if you

remember this reference Point A, we have some pictures here, so looking west from the gate you can see it's an open field, and then looking north to Caton Farm Road there's already a screening of trees on the road.

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6 So our wetland study partner 7 identified a wetland south of the pin where 8 our solar is proposed, and so they actually 9 performed the wetland study on Tuesday, and so 10 we're just awaiting the results. The reason 11 we had to wait was just seasonal reasons. And 12 then we do have a note that the solar array 13 location is contingent on the final wetland 14 study results. So we will move the array as 15 needed based on the results.

16 Here is the proposed design. The blue 17 is the solar panels, and so we have about --18 just under 2,000 modules proposed, expected to 19 produce 1.5 million kilowatt hours each year. 20 And then, like Chris said, offsetting 100 21 percent of Hendrickson's electricity usage. 22 So here is an example of what the solar would 23 look like installed.

Here is the overall electrical plan.

<sup>1</sup> Some things to note is there will be a fence <sup>2</sup> connecting the west fence line and the east <sup>3</sup> fence line, and then the gravel access path <sup>4</sup> that we discussed has the turnaround points <sup>5</sup> around the perimeter of the array, and then <sup>6</sup> there's also a south fence line boundary.

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This is zoomed in a little bit more.

Here is a racking elevation. So the panels are tilted at 30 degrees to the south, and there's about 19 feet in between each row, and there are two modules stacked on each row.

Here is an elevation of the typical
 fence details. So the access gate will be 16
 feet wide based on the Lockport Fire
 Protection District advice, and then the
 general fence will be six feet tall with one
 foot of barbed wire.

Here is a drainage plan. I have
 highlighted the drainage area and the average
 ground slope is 2.15 percent under the solar
 array.

Here is a clip of the landscaping proposed. So we have about 216 new plants as required by the ordinance, and so you can see

1 a lot of them are focused towards the north 2 further screening the array from Caton Farm 3 And then a handful of plants and Road. 4 shrubs -- trees and shrubs on the south 5 portion of the facility. And then underneath 6 the array will be a solar pollinator friendly 7 mix -- seed mix.

Here is an elevation of the trees and Here is a list of the 216 new shrubs. 10 plantings, so we have 97 -- or, sorry, we have 168 new trees proposed and 48 shrubs.

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12 Here is a list of the solar field 13 pollinator habitat seed mix and then the salt 14 tolerant road side mix (inaudible) mix.

15 And here are some images of all of the 16 plants and shrubs -- and trees are on the next 17 slide -- that are proposed.

18 And then the gravel access path. Here is 19 a cut sheet -- or an elevation view of the 20 three quarter inch limestone gravel loosely 21 compacted with a subgrade fabric. Here is a 22 snip showing we did measure and take into 23 account the truck turnaround radius and then 24 just a general plan of the gravel access path

as well.

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2 Any questions? I have kind of flipped 3 through everything really quickly. We can go 4 back and zoom in and --5 CHAIRMAN THOMAS: So did you say you're 6 going to keep all of the existing trees there 7 along Caton Farm Road? 8 MS. RASMUSSEN: Yep. And then we have to 9 add 216 based on the developed area. 10 CHAIRMAN THOMAS: And are you getting all

those trees locally from one of our wonderful 12 Crest Hill nurseries?

13 MS. RASMUSSEN: We definitely can, yeah. 14 CHRIS BATSCH: Absolutely.

15 CHAIRMAN THOMAS: I was surprised when I 16 drove by there how -- what -- already what a tree 17 barrier that exists. There are a lot of trees 18 along Caton Farm Road, so...

CHRIS BATSCH: Yeah. Yeah.

20 CHAIRMAN THOMAS: And your access road 21 that you have been talking about actually now 22 comes off of your property, not off of Caton Farm 23 Road, correct?

> CHRIS BATSCH: That is correct.

Page 39 1 MS. RASMUSSEN: The access to the solar 2 field, yes. 3 CHAIRMAN THOMAS: Yeah. Okay. 4 CHRIS BATSCH: If you look at the slope 5 coming off of Caton Farm Road it's rather steep. 6 That would require a substantial amount of buildup 7 to be able to get access. 8 CHAIRMAN THOMAS: And it would open up a 9 window also, which --10 CHRIS BATSCH: Yes. That is correct. 11 CHAIRMAN THOMAS: It's out of sight. 12 No, it looks very well thought out. 13 Okay. Anybody have any questions -- any 14 more questions? 15 COMMISSIONER CARROLL: I just have one. 16 What is underneath the panel? Is that going to be 17 gravel or grass? 18 MS. RASMUSSEN: It's going to be grass 19 and that pollinator friendly seed mix. 20 COMMISSIONER CARROLL: Okay. 21 CHAIRMAN THOMAS: Okay. What do we 22 think? 23 Does Staff have any more questions before 24 we --

1 PATRICK ANSWORTH: Just to go back on the 2 access road. Again, this is the best compromise 3 based on the cost, the regular requirements, 4 there's not only our ordinance, but Will County 5 that was conferred against with our City engineer 6 who worked very closely with the Verde engineering 7 team and, again, Staff makes a positive 8 recommendation based on the conditions provided 9 and the designs that you have seen tonight.

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10 CHAIRMAN THOMAS: Mm-hmm. Yeah. I take 11 a lot of confidence that our engineer and the 12 Lockport Township Fire Department has reviewed 13 that in detail, the -- to Commissioner Stanton's 14 concerns about the material being used, that they 15 felt pretty good to start off with that the way it 16 is and, to your point, let's hope they never have 17 to use it. It's not like it's going to be a high 18 traffic area, but if they have to, we certainly 19 don't want them to get stuck and not be able to 20 get to where they need to go around there. So I 21 think we have to kind of trust their judgment to 22 that.

<sup>23</sup> CHRIS BATSCH: Yeah. We did host the
 <sup>24</sup> fire marshall there on site, so we walked the

1 grounds, took a look at everything, where the 2 turning points would be, roughly where the solar field will lay out. We'll continue that 3 4 relationship with him as we finish it and as well 5 as annual inspections to get out there. We 6 understand this is new for them, it's new for us, 7 it's new for the City, so the more that we can communicate and open the door for coming out there 8 9 to do it, whether they want to do training access, whatever, they'll have full access to that. 10

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11 CHAIRMAN THOMAS: Okay. Are we good? 12 Any more questions? And looking around the 13 audience, unless my wife wants to say something, I 14 don't see anybody else here that is not part of 15 Hendrickson, so I just have to ask: Is there 16 anyone in the audience that wants to come forward 17 and make a comment or a question on this 18 particular case? And I see none.

<sup>19</sup> So if there are no more questions as part <sup>20</sup> of the public hearing, I think I would like to ask <sup>21</sup> for a motion to close the public hearing.

<sup>22</sup> COMMISSIONER PETERSON: I'll make that
 <sup>23</sup> motion.

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CHAIRMAN THOMAS: Motion by Commissioner

Page 42 1 Peterson. 2 COMMISSIONER FLYNN: I'll second it. 3 CHAIRMAN THOMAS: Second by Commissioner 4 Flynn. 5 Roll call, please. 6 SAMANTHA TILLEY: Jeff Peterson? 7 COMMISSIONER PETERSON: Yes. 8 SAMANTHA TILLEY: Marty Flynn? 9 COMMISSIONER FLYNN: Yes. 10 SAMANTHA TILLEY: John Stanton? 11 COMMISSIONER STANTON: Yes. 12 SAMANTHA TILLEY: Ken Carroll? 13 COMMISSIONER CARROLL: Yes. 14 SAMANTHA TILLEY: Cheryl Slabozeski? 15 COMMISSIONER SLABOZESKI: Yes. 16 SAMANTHA TILLEY: Angelo DeSerio? 17 COMMISSIONER DESERIO: Yes. 18 SAMANTHA TILLEY: And Bill Thomas? 19 CHAIRMAN THOMAS: Yes. 20 SAMANTHA TILLEY: Motion carried. 21 CHAIRMAN THOMAS: The public hearing is 22 closed at 7:47. 23 So I guess it's up to us now if we have 24 any comments amongst ourselves that we need to go

<sup>1</sup> back and consider. We certainly noted <sup>2</sup> Commissioner Stanton's concern with the removal, <sup>3</sup> and, I don't know, do we need to have any mention <sup>4</sup> of that in anything right now going forward <sup>5</sup> 30-plus years? If we take that out, do we have to <sup>6</sup> have a note that we would like to make sure the <sup>7</sup> conduit is included in the removal?

8 PATRICK ANSWORTH: So, I mean, the 9 ordinance is -- the special use lays with the 10 land, and obviously we hold this on. I don't know 11 if I have a time clicker -- time clock for going up to 30 years, but if any new development happens 12 13 on there, proper excavation takes place to remove 14 anything on site that would impede on the health, 15 safety, and welfare of a new structure. So I 16 completely empathize with Commissioner Stanton's 17 approach. A condition can be added 30 years from 18 now during the decommissioning of this to remove 19 the conduit and, you know, Staff 30 years from now 20 will have to review that ordinance prior to any 21 demo permit, but when excavators are out on site, 22 they'll note items found on field and make 23 adjustments to fully removing it if any 24 development were to happen there in the future.

1 CHAIRMAN THOMAS: You're right. I think 2 our ordinance system would pick that up in 30 3 years as far as the condition of that land if it's 4 going to be removed and everything on it put back 5 to the way it is now, and I don't know that we 6 need to mention that now. I think it will just 7 stay part of our removal process for something 8 like this, but -- and I think in 30 years we're 9 going to learn a lot more about removal of solar 10 panels than we know now. I don't think there's 11 many places removing it. 12 MS. RASMUSSEN: No. 13 CHAIRMAN THOMAS: They're putting it in, 14 and I think -- I trust that we'll all learn a lot 15 about the removal process when that comes up. 16 Okay. Can I call for the motion? Can 17 I call for a motion to approve the request 18 from Hendrickson USA LLC for granting of a 19 special use permit and variations for a new 20 solar array on a 4.8-acre area of land in the 21 M-2 general manufacturing district located at 22 501 Caton Farm Road Crest Hill, Illinois? 23 Now we have mentioned the ten conditions. 24 You're aware of these ten conditions --

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1	MR. BATSCH: Yes.
2	CHAIRMAN THOMAS: and have seen them
3	and agree to all of them?
4	CHRIS BATSCH: Yes.
5	CHAIRMAN THOMAS: Okay. So is there a
6	motion to approve?
7	MIKE STIFF: And the motion to approve
8	would be the variance as outlined in the Staff
9	report.
10	CHAIRMAN THOMAS: Yes. Correct. Thank
11	you.
12	COMMISSIONER PETERSON: I'll make that
13	motion.
14	CHAIRMAN THOMAS: You'll make that
15	motion, Commissioner Peterson.
16	COMMISSIONER SLABOZESKI: Second.
17	CHAIRMAN THOMAS: Commissioner Slabozeski
18	second.
19	Roll call, please.
20	SAMANTHA TILLEY: Jeff Peterson?
21	COMMISSIONER PETERSON: Yes.
22	SAMANTHA TILLEY: Cheryl Slabozeski?
23	COMMISSIONER SLABOZESKI: Yes.
24	SAMANTHA TILLEY: Angelo DeSerio?

1 COMMISSIONER DESERIO: Yes. 2 SAMANTHA TILLEY: Ken Carroll? ٦ COMMISSIONER CARROLL: Yes. 4 SAMANTHA TILLEY: John Stanton? 5 COMMISSIONER STANTON: Yes. 6 SAMANTHA TILLEY: Marty Flynn? 7 COMMISSIONER FLYNN: Yes. 8 SAMANTHA TILLEY: And Bill Thomas? 9 CHAIRMAN THOMAS: Yes. 10 SAMANTHA TILLEY: Motion carried. 11 CHAIRMAN THOMAS: Motion passed 7 to 0. 12 PATRICK ANSWORTH: That item will be on 13 the May 12th special -- or not special use --14 sorry, the regular session -- work session for 15 City Council -- it has been a long day -- so we 16 will -- Staff will be in communication with your 17 team on that. 18 CHAIRMAN THOMAS: Okay. So let me finish 19 up. Thank you. 20 First of all, I want to thank and 21 congratulate Hendrickson USA LLC for being a City 22 of Crest Hill business for almost 50 years. On 23 behalf of the Plan Commission we thank you for 24 being a loyal business to the City of Crest Hill,

and we certainly want your business to thrive and
 continue to move forward with the future of
 technology, especially as it relates to renewable
 energy. We thank you very much for that.

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5 So I will say that the Plan Commission 6 has approved the request from Hendrickson USA LLC 7 for your special use permit for your variations 8 and for the new solar array on the 4.8-acre farm 9 land -- solar farm land of the M-2 general 10 manufacturing district located at 501 Caton Farm 11 Road with the ten conditions discussed earlier, 12 and those conditions will be attached to our 13 minutes of this meeting, and we will forward our 14 recommendation to the City Council. The Plan 15 Commission is only a recommending body, and it 16 sounds like the City Council will hear your case 17 at their work succession on May 12th, so I 18 encourage, and I'm sure you will be there to 19 reiterate the terrific presentations that you both 20 And, again, I thank you for being a part of made. 21 Crest Hill and we look forward to this exciting 22 new venture.

<sup>23</sup> CHRIS BATSCH: Thank you very much.
 <sup>24</sup> UNIDENTIFIED SPEAKER: Thank you.

If you

CHAIRMAN THOMAS: Thank you. So we have other business to do. want to stick around, you're welcome to, but you can also feel free to get up and leave without disturbing us, that would be fine. We look forward to seeing you on May 12th. CHRIS BATSCH: Thank you. CHAIRMAN THOMAS: Thank you very much.

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So we have other business on our agenda. 10 The first one being the presentation, discussion, 11 and approval regarding the proposed amendments to 12 the Plan Commission Bylaws.

13 And, Mike, is there something you want to 14 just make some comments on or...

15 MIKE STIFF: Not really. I mean, this 16 has already been -- the only change that was made 17 was there was a -- City Council clarified the 18 ordinance with respect to compensation and the 19 number of absences, so we just incorporated the 20 new ordinance by reference into this, and then I 21 think we added a signature line for Patrick since 22 he is new as the actual director of community and 23 economic development, and then, obviously, the 24 dates changed, but, other than that, I think this

Page 49 1 is what you discussed and vetted and everybody was 2 okay with back in October, we just haven't had a 3 meeting since then to approve it. 4 CHAIRMAN THOMAS: Yeah, it has taken us 5 this long to get together to be able to approve 6 it. So assuming everybody has had a chance to 8 read it and is in agreement with everything we 9 said there, I would like to have a motion to 10 approve these bylaws and the changes as presented. 11 COMMISSIONER CARROLL: So moved. 12 COMMISSIONER PETERSON: Second. 13 CHAIRMAN THOMAS: Motion by Commissioner 14 Carroll. Second by Commissioner Peterson. 15 Any more discussion on it? Good to go? 16 So roll call, please, Samantha. 17 SAMANTHA TILLEY: Ken Carroll? 18 COMMISSIONER CARROLL: Yes. 19 SAMANTHA TILLEY: Jeff Peterson? 20 COMMISSIONER PETERSON: Yes. 21 SAMANTHA TILLEY: Marty Flynn? 22 COMMISSIONER FLYNN: Yes. 23 SAMANTHA TILLEY: John Stanton? 24 COMMISSIONER STANTON: Yes.

Page 50 1 SAMANTHA TILLEY: Cheryl Slabozeski? 2 COMMISSIONER SLABOZESKI: Yes. ٦ SAMANTHA TILLEY: Angelo DeSerio? 4 COMMISSIONER DESERIO: Yes. 5 SAMANTHA TILLEY: Bill Thomas? 6 CHAIRMAN THOMAS: Yes. 7 SAMANTHA TILLEY: Motion carried. 8 CHAIRMAN THOMAS: Okay. Is there any 9 other business?

Commissioner DeSerio, any other business
 you would like to present to the Plan Commission?
 COMMISSIONER DESERIO: Yes, there is,
 Mr. Chairman.

14 To Chairman William Thomas, Chairman of 15 the Crest Hill Plan Commission, as of tonight at 16 the close of business tonight I am submitting my 17 resignation as a commissioner to the Planning 18 Commission. It's with a humble heart that I do 19 this. I have been on this Planning Commission 20 since, I believe, 2020, if not before that. Τ 21 appreciate the knowledge I have received. I did 22 submit a letter to you and Samantha and Christine 23 Vershay. This is not a resignation because of any 24 ill will, it is a resignation because I was

elected as Alderman of Ward 1 and I cannot serve
 on both positions.

3 CHAIRMAN THOMAS: You know, normally I 4 would say, wow, we're really sorry to see you go, 5 but in this particular case we are very excited to 6 see you the now become a member of the Plan 7 Commission, and you have been a definite asset to the Plan Commission. You have served as secretary 8 9 for the last four of your five years and we wish 10 you nothing -- nothing but the best as you go 11 forward, so thank you.

<sup>12</sup> MIKE STIFF: I actually thought you were <sup>13</sup> going to ask Commissioner Peterson if you could <sup>14</sup> take your chair over there for tonight's meeting, <sup>15</sup> but...

16 CHAIRMAN THOMAS: Yeah. So we have --17 May, according to our new bylaws, the month of May 18 is when we reelect chairman, vice chairman and 19 secretary, so I think when we have our May meeting 20 on the agenda we will put election -- election of 21 officers should already be going to be on there. 22 MIKE STIFF: Patrick has just indicated 23 that we currently have no May agenda items, so it

<sup>24</sup> will have to be June, unless you want to meet just

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<sup>1</sup> to reorganize.

PATRICK ANSWORTH: I guarantee you we
 will have at least one agenda for June.

<sup>4</sup> CHAIRMAN THOMAS: So we weren't able to
 <sup>5</sup> pull that meeting to a special meeting later in
 <sup>6</sup> the month?

PATRICK ANSWORTH: Staffing times and --CHAIRMAN THOMAS: Okay. Well, that's fine. We'll put it on the June agenda. If we don't have a meeting we don't need a secretary until then, so...

12 Okay. Well, that takes care of the other 13 business and I don't see anybody out there to make 14 public comments, so with no public comment 15 required can we have a motion for adjournment? 16 And I have actually already penciled in that 17 Commissioner DeSerio is going to make the motion 18 for adjournment this meeting, his last meeting. 19 COMMISSIONER DESERIO: So moved. 20 CHAIRMAN THOMAS: So I need a second. 21 COMMISSIONER FLYNN: I'll second. 22 CHAIRMAN THOMAS: Was that Marty? 23 COMMISSIONER FLYNN: Yes. 24 CHAIRMAN THOMAS: All right.

1 Commissioner Flynn for the second. 2 And can we have a roll call, please? 3 SAMANTHA TILLEY: Angelo DeSerio? 4 COMMISSIONER DESERIO: Yes. 5 SAMANTHA TILLEY: Marty Flynn? 6 COMMISSIONER FLYNN: Yes. 7 SAMANTHA TILLEY: John Stanton? 8 COMMISSIONER STANTON: Yes. 9 SAMANTHA TILLEY: Jeff Peterson? 10 COMMISSIONER PETERSON: Yes. 11 SAMANTHA TILLEY: Ken Carroll? 12 COMMISSIONER CARROLL: Yes. 13 SAMANTHA TILLEY: Cheryl Slabozeski? 14 COMMISSIONER SLABOZESKI: Yes. 15 SAMANTHA TILLEY: Bill Thomas? 16 CHAIRMAN THOMAS: Yes. SAMANTHA TILLEY: Motion carried. 17 18 CHAIRMAN THOMAS: So meeting adjourned at 19 7:58 -- 7:59. 20 (The meeting was adjourned at 7:59 p.m. 21 on April 24th, 2025.) 22 23 24

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Hailey Schoot, CSR, RPR, being first duly sworn, on oath says that she is a court reporter doing business in the State of Illinois; and that she reported in shorthand the proceedings of said meeting and that the foregoing is a true and correct transcript of her shorthand notes so taken as aforesaid, and contains the proceedings given at said meeting. Hailey schoot Hailey Schoot, CSR, RPR Illinois CSR License 084-004897 

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#### ORDINANCE NO.

### AN ORDINANCE GRANTING A SPECIAL USE PERMIT FOR A "UTILITY FACILITY" (SOLAR ARRAY) AND A VARIATION OF SECTION 11.6-1 OF THE CREST HILL ZONING CODE WITH RESPECT TO THE CONSTRUCTION OF THE EMERGENCY ACCESS ROAD ON PIN 11-04-33-100-002-0000, AND A VARIATION FROM CITY CODE SECTION 15.04.040(I)(8) TO ALLOW A DRIVEWAY WIDTH OF 45 FEET ON PIN 11-04-33-100-003-0000 SUBJECT TO CONDITIONS (APPLICATION OF HENDRICKSON USA, LLC)

**WHEREAS**, the City Council of the City of Crest Hill has the authority to adopt ordinances and to promulgate rules and regulations that pertain to its government and affairs and protect the public health, safety, and welfare of its citizens; and

WHEREAS, the Applicant, Hendrickson USA, LLC ("Hendrickson") is the owner of certain property located within the corporate boundaries of the City, consisting of two PIN numbers (11-04-33-100-003-0000 and 11-04-33-100-002-0000) that is commonly known as 501 Caton Farm Road in the City of Crest Hill, Illinois ("Subject Property"); and

**WHEREAS**, the Subject Property is presently zoned M-2 (General Manufacturing District) and is legally described on <u>Exhibit A</u> attached hereto and fully incorporated herein; and

**WHEREAS**, on or about March 31, 2025, Hendrickson, through its representative, Verde Solutions submitted an Application for Development ("Application") to the City seeking, *inter alia*, the following zoning relief:

- 1. Approval of a Special Use Permit for a Utility Facility (Ground Mounted Solar Array) on Hendrickson's property bearing PIN 11-04-33-100-003-0000, which is currently a partially vacant lot which is also used for Manufacturing; and
- 2. A Variation from Section 11.6-1 (Parking and Loading Surfaces) of the Crest Hill Zoning Ordinance to allow the emergency access road which circles the proposed ground mounted solar array to be constructed of an engineered gravel surface consisting of a subgrade fabric and 3/4" stone sized limestone material rather than asphalt or concrete.
- 3. A Variation from Section 15.04.040(I)(8) of the Crest Hill Building Code Standards to allow a driveway entrance on PIN 11-04-33-100-003-0000 to exceed the 30' maximum width by 15' for a total allowable width of 45'.

**WHEREAS**, following the submission of the application and evaluation by City Staff, it was determined that the existing driveway entrance to the Subject Property's eastern portion of the property bearing PIN 11-04-33-100-002-0000 from Caton Farm Road is not paved and consists of gravel, thereby making it non-conforming to the current Zoning Ordinance; and

WHEREAS, City Staff has recommended that the subject driveway located on the eastern portion of the property bearing PIN 11-04-33-100-002-0000 be brought into conformance by paving it subject to the City's construction standards and Section 11.6-1 of the Zoning Ordinance, and the Plan Commission concurred in the recommendation and made the driveway conformance a condition of the granting of the Special Use Permit and Variations; and

**WHEREAS**, Hendrickson has agreed to all the recommended conditions as outlined in the April 17, 2025 Staff Memorandum; and

WHEREAS, on April 24, 2025, the City of Crest Hill Plan Commission conducted a public hearing on the Application, due notice having been published and provided for the same, and at that time, the Plan Commission unanimously recommended conditional approval of the Application, as stated in the Plan Commission's written Findings and Decision, a copy of which is attached hereto as <u>Exhibit B</u> and fully incorporated herein; and

**WHEREAS**, the City Council has reviewed and concurred with the Plan Commission's Findings and Decision and hereby determines and declares that it is necessary, expedient, and in the best interests of the City and its citizens to approve Hendrickson's Application, subject to conditions and as set out in this Ordinance.

#### NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF CREST HILL, WILL COUNTY, ILLINOIS, PURSUANT TO ITS STATUTORY AUTHORITY, AS FOLLOWS:

**SECTION 1:** The City Council hereby finds that all the recitals contained in the preamble to this Ordinance are true, correct, and complete and are hereby incorporated by reference hereto and made a part hereof.

**SECTION 2:** The City Council hereby approves the Application of Hendrickson and grants to Hendrickson the following:

- A Special Use Permit to construct on and utilize the property bearing PINs 11-04-33-100-002-0000 and 11-04-33-100-003-0000 as, inter alia, a Utility Facility (Ground Mounted Solar Array) in substantial conformance with the March 31, 2025 Verde Solutions Special Use Permit Request subject to all conditions contained in the April 17, 2025 Crest Hill Staff Memorandum, attached hereto as Exhibit C and incorporated herein.
- 2. A Variation from Section 11.6-1 (Parking and Loading Surfaces) of the Crest Hill Zoning Ordinance to allow the emergency access road which circles the proposed ground mounted solar array to be constructed of an engineered gravel surface consisting of a subgrade fabric and 3/4" stone sized limestone material rather than asphalt or concrete in accordance with the March 31, 2025 Verde Solutions Special Use Permit Request and Exhibit C.
- 3. A Variation from Section 15.04.040(I)(8) of the Crest Hill Building Code Standards to allow the existing driveway entrance on PIN 11-04-33-100-003-0000 to be maintained which exceeds the 30' maximum width by 15' for a total allowable width of 45'.

**SECTION 3:** In the event that any provision or provisions, portion or portions, or clause or clauses of this Ordinance shall be declared to be invalid or unenforceable by a Court of competent jurisdiction, such adjudication shall in no way affect or impair the validity or enforceability of any of the remaining provisions, portions, or clauses of this Ordinance that may be given effect without such invalid or unenforceable provision or provisions, portion or portions, or clause or clauses.

**SECTION 4:** That all ordinances, resolutions, motions, or parts thereof, conflicting with any of the provisions of this Ordinance, are hereby repealed to the extent of the conflict.

**SECTION 5:** That the City Clerk is hereby directed to publish this Ordinance in pamphlet form.

**SECTION 6:** This Ordinance shall be in full force and effect from and after the later occurring of (i) its passage, approval and publication in pamphlet form as provided by law and (ii) execution of the "Unconditional Agreement and Consent" attached hereto as <u>Exhibit D</u> and fully incorporated herein. In the event that <u>Exhibit D</u> is not duly executed within sixty (60) days following the adoption of this Ordinance, this Ordinance shall thereafter be null and void and of no further legal effect and shall be deemed to have been automatically repealed and rescinded without any further action by the City Council or notice or hearing due to Hendrickson.

[Intentionally Blank]

# PASSED THIS 19<sup>TH</sup> DAY OF MAY, 2025.

	Aye	Nay	Absent	Abstain
Alderman Scott Dyke				
Alderman Angelo DiSerio				
Alderwoman Claudia Gazal				
Alderman Darrell Jefferson				
Alderperson Tina Oberlin				
Alderman Mark Cipiti				
Alderman Nate Albert				
Alderman Joe Kubal				
Mayor Raymond R. Soliman				

Christine Vershay-Hall, City Clerk

APPROVED THIS 19<sup>TH</sup> DAY OF MAY, 2025.

Raymond R. Soliman, Mayor

ATTEST:

Christine Vershay-Hall, City Clerk

# Exhibit A Legal Description

#### LEGAL DESCRIPTION PARCEL I:

A TRACT OF LAND IN THE NORTHWEST QUARTER OF SECTION S5, IN TOWNSHIP 36 NORTH, RANGE IO, EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS BEGINNING AT THE NORTHEAST CORNER OF THE TRACT OF LAND CONVEYED TO LAVELLA BUILDING CORPORATION BY QUIT -CLAIM DEED RECORDED IN THE RECORDER'S OFFICE OF WILL COUNTY, ILLINOIS, AS DOCUMENT 75L202, WHICH NORTHEAST CORNER IS ALSO THE NORTHEAST CORNER OF THE WEST 14,98.84 FEET OF SAID NORTHWEST QUARTER AND RUNNING THENCE EAST ALONG THE NORTH LINE OF SAID NORTHWEST QUARTER A DISTANCE OF 859.3I FEET TO THE NORTHWEST CORNER OF THE TRACT OF LAND CONVEYED TO JOHN F. ZELLER BY QUIT-CLAIM DEED RECORDED IN SAID RECORDER'S OFFICE AS DOCUMENT 909129, WHICH NORTHWEST CORNER IS ALSO THE NORTHWEST CORNER OF THE EAST 282.7I FEET OF SAID NORTHWEST QUARTER, THENCE SOUTH ALONG THE WEST LINE OF SAID EAST 282 71 FEET AND THE WEST LINE OF SAID TRACT CONVEYED BY DOCUMENT 909129 A DISTANCE OF 577.61 FEET TO THE SOUTHWEST CORNER OF THE LAST ABOVE MENTIONED TRACT; THENCE WESTWARDLY A DISTANCE OF 156.08 FEET TO A POINT ON THE NORTHERLY LINE OF THE TRACT OF LAND CONVEYED TO THE PUBLIC SERVICE COMPANY OF NORTHERN ILLINOIS BY OUIT-CLAIM DEED RECORDED IN SAID RECORDER'S OFFICE AS DOCUMENT LI936, WHICH POINT IS LI8 19 FEET WEST FROM THE EAST LINE OF SAID NORTHWEST OUARTER MEASURED PERPENDICULARLY THERETO; THENCE WESTWARDLY ALONG SAID NORTHERLY LINE OF SAID TRACT CONVEYED BY SAID DOCUMENT 419056 A DISTANCE OF 725.15 FEET TO THE SOUTHEAST CORNER OF SAID TRACT OF LAND CONVEYED BY DOCUMENT 754202, WHICH SOUTHEAST CORNER IS ON THE EAST LINE OF SAID WEST 1498.84 FEET AND THENCE NORTH ALONG THE EAST LINE OF SAID TRACT CONVEYED BY DOCUMENT 754202 AND ALONG SAID EAST LINE OF THE WEST 1L98.84 FEET A DISTANCE OF 635.69 FEET TO THE PLACE OF BEGINNING, IN WLLL COUNTY, ILLINOIS.

#### PARCEL II:

THAT PART OF THE NORTHWEST QUARTER OF SECTION 33, IN TOWNSHIP 36 NORTH, RANGE 10, EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: BOUNDED ON THE NORTH BY THE NORTH LINE OF SAID SECTION 33, ON THE SOUTH BY THE NORTHERLY LINE AND ON SAID LINE EXTENDED WESTERLY OF LAND CONVEYED BY FLORENCE O. WINSHIP AND B.W. WINSHIP, ET AI, TO THE PUBLIC SERVICE COMPANY OF NORTHERN ILLINOIS BY WARRANTY DEED DATED APRIL 14, 1928 AND RECORDED JUNE 7, 1928 IN BOOK 661, PAGE 564, AS DOCUMENT 419036, ON THE WEST BY LAND CONVEYED BY FLORENCE O. WINSHIP, ET AI, TO THE CATHOLIC BISHOP OF CHICAGO BY WARRANTY DEED DATED FEBRUARY 10, 1928 AND RECORDED JUNE 5, 1928 IN BOOK 661, PAGE 554, AS DOCUMENT 418951, AND ON THE EAST LINE BY A LINE 1498.84 FEET EAST OF AND PARALLEL WITH THE WEST LINE OF SAID NORTHWEST QUARTER AND EXCEPT THAT PROPERTY CONVEYED BY LAVELIA BUILDING CORPORATION TO MARTIN D. MCNAMARA, TRUSTEE, BY DEED RECORDED MAY31, 1955AS DOCUMENT 774760, IN WILL COUNTY, ILLINOIS.

**Commonly known as:** 501 Caton Farm Road in the City of Crest Hill, Illinois

Bearing the current PINs: 11-04-33-100-002-0000 and 11-04-33-100-003-0000

# **Exhibit B**

# Plan Commission Findings and Decision April 24, 2025

### BEFORE THE PLAN COMMISSION OF THE CITY OF CREST HILL, ILLINOIS

SU-25-2-4-1

IN RE:	)	
The application of Hendrickson USA, LLC	)	
For a Special Use Permit and Variations to the City of Crest Hill Zoning Code and	)	No.
Code of Ordinances	)	

### FINDINGS AND DECISION OF THE PLAN COMMISSION AS TO CASE NO. SU-25-2-4-1 THE APPLICATION OF HENDRICKSON USA, LLC FOR A SPECIAL USE PERMIT FOR A UTILITY FACILITY (GROUND MOUNTED SOLAR ARRAY) AND VARIATIONS TO SECTION 11.6-1 OF THE CREST HILL ZONING ORDINANCE AND SECTION 15.04.040(I)(8) OF THE CITY OF CREST HILL BUILDING CODE ON PROPERTY LOCATED AT 501 CATON FARM ROAD

THIS APPLICATION, coming before the City of Crest Hill Plan Commission for decision, and the Plan Commission having heard the evidence in support and opposition to the application at a regularly scheduled meeting held on April 24, 2025, and being fully advised in the premises, THE COMMISSION DOES MAKE THE FOLLOWING FINDINGS:

A. That the applicant, Hendrickson USA, LLC is the owner of certain property located on two PIN numbers at 501 Caton Farm Road in the City of Crest Hill and as legally described in Exhibit "A" hereto, which parcels are zoned M-2 General Manufacturing.

B. That the application seeks the following:

An M-2 special use permit for construction and operation of a Utility Facility (Ground Mounted Solar Array) which will supply 100% of its electrical and power needs on the property described in the application, approximately 4.8 acres on the west side of its property and part of PIN: 11-04-33-100-002-0000 (the "Property"), as legally described in Exhibit "A".

- 1. A Variation from Section 11.6-1 (Parking and Loading Surfaces) of the Crest Hill Zoning Ordinance to allow the emergency access road which circles the proposed ground mounted solar array to be constructed of an engineered gravel surface consisting of a subgrade fabric and 3/4" stone sized limestone material rather than asphalt or concrete.
- 2. A Variation from Section 15.04.040(I)(8) of the Crest Hill Building Code Standards to allow a driveway entrance on PIN 11-04-33-100-003-0000 to exceed the 30' maximum width by 15' for a total allowable width of 45'.
  - C. That the Property is currently zoned M-2;
  - D. That the proposed use is not allowed on the Property as currently zoned;

E. That the Property described in the application is currently zoned as General Manufacturing District, with M-1 and M-2 zoning adjacent thereto;

F. That the application for the Special Use Permit and Variations was properly submitted to the City and notice of the application and the Public Hearing were properly published;

G. That no interested parties filed their appearances herein;

H. That the public hearing was opened and called to order on April 24, 2025, and the Applicant presented evidence and arguments in support of its application on that date, and members of the public were allowed to make comment and examine the Applicant's witnesses. The public hearing was duly transcribed by a certified shorthand reporter of the State of Illinois;

I. That the rules adopted by the Plan Commission for the conduct of Public Hearings by the Plan Commission were duly followed and observed;

K. That the proposed special use for the Utility Facility (Ground Mounted Solar Array) red under section 12.7 of the zoning code, meets the standards for the granting of the special use under section 12.7-6 as the proposed development meets all of the criteria set forth in subsections 12.7-6(1), (2), (3), (4), (5) and (6) for the reasons set forth on the record in the Plan Commission meeting held on April 24, 2025 as well as those recommendations and comments contained in the City of Crest Hill staff report dated April 17, 2025, and subject to the conditions set forth therein;

L. That the requested Variation from Section 11.6-1 (Parking and Loading Surfaces) are for the reasons set forth on the record in the April 24, 2025 Plan Commission Meeting and in the City of Crest Hill staff report dated April 17, 2025, and subject to the conditions set forth therein, is also determined to be acceptable and meet the standards for Variations as established by Section 12.6-2 of the zoning ordinance;

M. That the requested Variation from Section 15.04.040(I)(8) of the Crest Hill Building Code Standards is also determined to be conditionally accepted for the reasons set forth on the record in the April 24, 2025 Plan Commission meeting and in the City of Crest Hill staff report dated April 17, 2025.

THEREFORE, it is the decision of the Plan Commission of the City of Crest Hill, Illinois, based upon the evidence heard by same and arguments and suggestions heard at the public hearing, and having duly considered the mandates and standards as set forth in the City of Crest Hill Illinois Code of Ordinances and Zoning Ordinance for the granting of special uses and Variations, as follows:

1. That the application of Hendrickson USA, LLC for an M-2 Special Use Permit for the construction and operation of a Utility Facility (Ground Mounted Solar Array) on 4.8 acres of currently vacant land on PIN: 11-04-33-100-002-0000 (the "Property"), as legally described in Exhibit "A", in an M-2 zoning district was conditionally recommended to be approved and is supported by the evidence adduced during the April 24, 2025 public hearing and as outlined in the April 17, 2025 City of Crest Hill staff report;

- 2. That the application of Hendrickson USA, LLC for a Variation from Section 11.6-1 (Parking and Loading Surfaces) of the Crest Hill Zoning Ordinance to allow the emergency access road which circles the proposed ground mounted solar array to be constructed of an engineered gravel surface consisting of a subgrade fabric and 3/4" stone sized limestone material rather than asphalt or concrete on 4.8 acres of currently vacant land on PIN: 11-04-33-100-002-0000 (the "Property"), as legally described in Exhibit "A", in an M-2 zoning district was conditionally recommended to be approved and is supported by the evidence adduced during the April 24, 2025 public hearing and as outlined in the April 17, 2025 City of Crest Hill staff report;
- 3. That the application of Hendrickson USA, LLC for a Variation from Section 15.04.040(I)(8) of the Crest Hill Building Code Standards to allow a driveway entrance on PIN 11-04-33-100-003-0000 to exceed the 30' maximum width by 15' for a total allowable width of 45' as legally described in Exhibit "A", in an M-2 zoning district was conditionally recommended to be approved and is supported by the evidence adduced during the April 24, 2025 public hearing and as outlined in the April 17, 2025 City of Crest Hill staff report.
- 4. These conditional approvals are subject to all conditions enumerated in the April 17, 2025 City of Crest Hill staff report which is attached hereto and made part of this Findings and Decision document.
- 5. It is therefore the recommendation of the City of Crest Hill Plan Commission that the application for the Special Use Permit and Variations as outlined herein be conditionally approved by the City Council.

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Adopted by the Plan Commission of the City of Crest Hill, Illinois, this 24<sup>th</sup> Day of April, 2025 upon the following voice vote:

	Aye	Nay	Absent	Abstain
Commissioner Cheryl Slabozeski	<u>X</u>			
Commissioner John Stanton	<u>X</u>			
Commissioner Ken Carroll	<u> </u>			
Commissioner Marty Flynn	<u> </u>			
Commissioner Bill Thomas	<u> </u>			
Commissioner Jeff Thomas	<u>X</u>			
Commissioner Angelo Deserio	<u>X</u>			

Approved:

Bill Thomas, Chairperson

Attest:

Christine Vershay-Hall, City Clerk

### "Exhibit A"

### LEGAL DESCRIPTION

### PERMANENT INDEX NOS: 11-04-33-100-002-0000 AND 11-04-33-100-003-0000

### LEGAL DESCRIPTION

### PARCEL I:

A TRACT OF LAND IN THE NORTHWEST QUARTER OF SECTION S5, IN TOWNSHIP 36 NORTH, RANGE IO, EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS BEGINNING AT THE NORTHEAST CORNER OF THE TRACT OF LAND CONVEYED TO LAVELLA BUILDING CORPORATION BY QUIT -CLAIM DEED RECORDED IN THE RECORDER'S OFFICE OF WILL COUNTY, ILLINOIS, AS DOCUMENT 75L202, WHICH NORTHEAST CORNER IS ALSO THE NORTHEAST CORNER OF THE WEST 14.98.84 FEET OF SAID NORTHWEST QUARTER AND RUNNING THENCE EAST ALONG THE NORTH LINE OF SAID NORTHWEST QUARTER A DISTANCE OF 859.3I FEET TO THE NORTHWEST CORNER OF THE TRACT OF LAND CONVEYED TO JOHN F. ZELLER BY OUIT-CLAIM DEED RECORDED IN SAID RECORDER'S OFFICE AS DOCUMENT 909129, WHICH NORTHWEST CORNER IS ALSO THE NORTHWEST CORNER OF THE EAST 282.7I FEET OF SAID NORTHWEST QUARTER, THENCE SOUTH ALONG THE WEST LINE OF SAID EAST 282 71 FEET AND THE WEST LINE OF SAID TRACT CONVEYED BY DOCUMENT 909129 A DISTANCE OF 577.61 FEET TO THE SOUTHWEST CORNER OF THE LAST ABOVE MENTIONED TRACT; THENCE WESTWARDLY A DISTANCE OF 156.08 FEET TO A POINT ON THE NORTHERLY LINE OF THE TRACT OF LAND CONVEYED TO THE PUBLIC SERVICE COMPANY OF NORTHERN ILLINOIS BY QUIT-CLAIM DEED RECORDED IN SAID RECORDER'S OFFICE AS DOCUMENT L1936, WHICH POINT IS LI8 19 FEET WEST FROM THE EAST LINE OF SAID NORTHWEST QUARTER MEASURED PERPENDICULARLY THERETO; THENCE WESTWARDLY ALONG SAID NORTHERLY LINE OF SAID TRACT CONVEYED BY SAID DOCUMENT 419056 A DISTANCE OF 725.15 FEET TO THE SOUTHEAST CORNER OF SAID TRACT OF LAND CONVEYED BY DOCUMENT 754202, WHICH SOUTHEAST CORNER IS ON THE EAST LINE OF SAID WEST 1498.84 FEET AND THENCE NORTH ALONG THE EAST LINE OF SAID TRACT CONVEYED BY DOCUMENT 754202 AND ALONG SAID EAST LINE OF THE WEST 1L98.84 FEET A DISTANCE OF 635.69 FEET TO THE PLACE OF BEGINNING, IN WLLL COUNTY, ILLINOIS.

### PARCEL II:

THAT PART OF THE NORTHWEST QUARTER OF SECTION 33, IN TOWNSHIP 36 NORTH, RANGE 10, EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: BOUNDED ON THE NORTH BY THE NORTH LINE OF SAID SECTION 33, ON THE SOUTH BY THE NORTHERLY LINE AND ON SAID LINE EXTENDED WESTERLY OF LAND CONVEYED BY FLORENCE O. WINSHIP AND B.W. WINSHIP, ET AI, TO THE PUBLIC SERVICE COMPANY OF NORTHERN ILLINOIS BY WARRANTY DEED DATED APRIL 14, 1928 AND RECORDED JUNE 7, 1928 IN BOOK 661, PAGE 564, AS DOCUMENT 419036, ON THE WEST BY LAND CONVEYED BY FLORENCE O. WINSHIP, ET AI, TO THE CATHOLIC BISHOP OF CHICAGO BY WARRANTY DEED DATED FEBRUARY 10, 1928 AND RECORDED JUNE 5, 1928 IN BOOK 661, PAGE 554, AS DOCUMENT 418951, AND ON THE EAST LINE BY A LINE 1498.84 FEET EAST OF AND PARALLEL WITH THE WEST LINE OF SAID NORTHWEST QUARTER AND EXCEPT THAT PROPERTY CONVEYED BY LAVELIA BUILDING CORPORATION TO MARTIN D. MCNAMARA, TRUSTEE, BY DEED RECORDED MAY31, 1955AS DOCUMENT 774760, IN WILL COUNTY, ILLINOIS.

Commonly known as: 501 Caton Farm Road in the City of Crest Hill, Illinois



## **April 17, 2025 City of Crest Hill Staff Memorandum and Application Drawings**

### EXHIBIT C

Re:



### To: Plan Commission/ZBA

Patrick Ainsworth, AICP, Community and Economic Development Director **From:** Ronald Mentzer, Community & Economic Development Consultant

### Date: April 17, 2025

Consideration of Case Number SU-25-2-4-1 - Request of Hendrickson USA LLC seeking approval for a Special Use Permit and Variations for a New Solar Array which is Classified as a Utility Facility under the Crest Hill Zoning Ordinance on a 4.8-acre area of land in a M-2 General Manufacturing District located at 501 Caton Farm Road in Crest Hill, Illinois

Project Details		La	nd Use and Zoni	ng Summary		
Project	Utility Facility (Solar Array)			Land Use	Comp Plan	Zoning
Request	Special Use for Utility Facility		Subject Parcel	Vacant & Manufacturing	Manufacturing	M-2
	Variation for Surface Material		North	Stateville	Stateville	M-1
	Deviation from Curb Cut Width		South	ComEd	Manufacturing	M-2
Location	501 Caton Farm Road		East	Manufacturing	Manufacturing	M-2
Building Sizes	Site Details N/A		West	Cemetery	Community Facilities	M-1
Site Area	24.6 Acres					

### **PROJECT SUMMARY**

Verde Solutions, on behalf of Hendrickson USA LLC (the "Applicant"), has submitted an application package for the City's potential approval of a Special Use Permit with Variations for the construction and operation of a 4.8-acre solar array to assist with powering the approximately 100,000 SF, Hendrickson Manufacturing Facility (see Attachment A for the Application). The Applicant has selected the vacant land to the west of their manufacturing facility to improve with the proposed solar array and an emergency vehicle only access road. The Applicant is proposing to limit land disruption and pave as little of the existing lot which presents a Variation request to improve the emergency vehicle access road with an engineered gravel material. There are two parcels within the entire property that are both owned by the Applicant. Since the solar array is improved on the vacant lot to the west and will power the existing manufacturing facility, both PINs are included in the Application (PIN 11-04-33-100-002-

PC/ZBA Staff Report April 24, 2025 Hendrickson USA LLC - Special Use and Variance Application

0000 and 11-04-33-100-003-0000). The Applicant has operated at the current location for almost 50 years and are planning to update parts of their property over the next couple of years starting with the solar array.

### **Project Background**

In August 2024, the Applicant met with the Community Development staff to obtain preliminary feedback on the preliminary concept and see what the process was to move forward on this project. Community Development staff realized the project scope and determined that a Special Use was required size under the classification of Utility Facility. The Crest Hill Zoning Code defines the land use of Utility Facility below:

UTILITY FACILITY: A service and its related facilities which ostensibly provides for the benefit of the general utility services including, but not limited to: water, sanitary sewer, storm sewers, electrical, telephone, natural gas, radio, television, radar, Wi-Fi, and related utilities

The collective power generated from the solar panels will total approximately 1.185 megawatts which, is stated in the Application, can supply all of the annual power needed for the Hendrickson USA facility. Given the size of this project, the Lockport Fire Protection District was consulted on the access for this project and requested an access road in order to serve the property in the event of a fire or other emergency. A design solution was reached which will allow for an access road to be improved around the solar array for emergency vehicles only and will be improved with a subgrade fabric and <sup>3</sup>/<sub>4</sub>" stone size limestone gravel surface which was reviewed by the City Engineer. Improving the access road with asphalt or concrete would trigger stormwater detention requirements and thus would not make this project feasible for the Applicant. This access road will be within the fenced area and the access road *cannot* be accessed through Caton Farm (the only access is through their private property). I will be used for emergency vehicles only.

There are several additional steps that are being taken to assist with the design and placement of this project which includes maintaining an approximately 180 foot setback from Caton Farm Road, over 200 new live plantings will be added to the perimeter of this project to enhance the property's landscaped area, the entire solar array will be fenced off so no unauthorized personnel can access this area and the entrance into the solar array will be locked. The Lockport Fire Protection District will have access to the fenced off area in the event of an emergency.

If the Special Use and the Variation/Deviation requests are approved, the Applicant plans to start the permit process and construction of the solar array this year.

### Planning, Zoning, and City Code Analysis

**Zoning Ordinance and Crest Hil City Code Regulations** – The following subsections assess the submittals in relation to the Zoning Ordinance and the Crest Hill City Code. There are several components of the project to review in comparison to this document, hence there are multiple attributes of this project that are detailed below.

**Off Street Parking –** There are no parking requirements for a Utility Service given the notion that the solar array is an accessory use of providing renewable electricity to the primary manufacturing facility of the Applicant on the parcel to the east (PIN 11-04-33-100-003-0000). This is essentially an unmanned facility which will have a monitoring system and will require minimal maintenance during the lifespan of the solar array.

Minimum Lot Area	1 Acre Required	24.6 Acres Provided
Accessory Structure Height	15 Foot Max Allowed Height	10.57 Feet Proposed
Front Yard Setback	30 Feet Required	Approx. 180 Feet Proposed
Interior Side Yard Setback	20 Feet Required	Approx. 77 Feet Proposed (West)
Interior Side Yard Setback	20 Feet Required	Approx. 297 Feet Proposed (East)
Rear Yard Setback	20 Feet Required	Approx. 142 Feet Proposed
Lot Coverage	85% Max Allowed	20.5% Presented
Access Road Surface	Dust free hard surface such	
Material	as asphalt or concrete	3/4" Stone Size Limestone Material*

### Zoning Regulations for M-2 General Manufacturing District Related to the Solar Array Only

\*Variance being requested for the emergency access road surface material.

As shown in the table above, all bulk regulations are in compliance between the proposed project and the Crest Hill Zoning Ordinance. Note, the solar array may have to move slightly based on final engineering review when comparing stormwater drainage patterns. Any slight adjustment will still conform to all setbacks and the maximum location adjustment will be no more than 10 feet. Also, the surface material of the access road is the requested Variance.

**Fencing Regulations** – Section 8.3-9.1.b of the Zoning Ordinance allows for fencing up to eight feet in height for non-residential zoned properties. The Applicant is proposing a six-foot-tall chain link fence with the addition of a one-foot barbed wire atop of the chain-link fence for a total height of seven feet. There are no restrictions on adding barbed wire to fencing in non-residential zoning districts. As such, the proposed fencing is in compliance with the Zoning Ordinance.

**Emergency Access Road Paving Material With Solar Array Project Area** – As mentioned above, the Applicant is requesting a variance for Zoning Ordinance Code Section 11.6-1 as all parking, drive and loading areas needs to be improved with asphalt, concrete or similar materials. In addition to this being an access road for emergency vehicles only, there is a known flood zone south of the subject property. The property with the flood zone is owned by ComEd.

Reducing the amount of impervious surface on this site will assist with drainage efforts for the area to the south. Additionally, according to the Will County Stormwater Ordinance, solar panels are exempt from site runoff storage requirements provided certain criteria are met (See the Stormwater Report in Attachment B for reference). According to the Stormwater Report all criteria for this proposed solar array have been met. Therefore, maintaining an access road with a subgrade fabric and a <sup>3</sup>/<sub>4</sub>" stone size limestone gravel material, in addition to the lack of impervious surfaces from the solar array, will cumulatively assist with drainage and reduce the need for additional stormwater detention facilities.

**Existing Driveways and Loading Area**– Since the Plat of Survey shows the driveway entrance from Caton Farm Road leading to the accessory building improved with a gravel surface, staff has worked with the Applicant to transition this surface from a gravel material to a dust free hard surface which will bring this portion of the property into conformity with the Zoning Ordinance. This particular improvement is less than 25,000 square feet which will not require stormwater detention requirements. A condition has been added to the staff recommendation regarding this matter.

Additionally, the driveway entrance on the eastern lot with the PIN of 11-04-33-100-003-0000 measures approximately 45 feet at the property line. Per City Code Section 15.04.040(I)(8), the maximum driveway width allowed is 30'. As such, another deviation/variation is being requested to

PC/ZBA Staff Report April 24, 2025 Hendrickson USA LLC - Special Use and Variance Application

allow for a 45-foot-wide driveway. The Applicant plans to resurface all parking lot and drive aisle areas in the near future so it is prudent to request this City Code deviation now to assist the Applicant with these future improvements.

**Live Planting Requirement Section** – City Code Section 15.04.040(I)(2)(b)(2) states that 1 approved planting per 725 square feet of improved land area is required which results in a minimum of 313 plantings required for this site. The proposed landscape plan shows that 313 plantings will be provided with 99 live plantings and trees are already improved on site, and 216 live plantings are being added to the improved area. The number of live plantings complies with this code section.

<u>**Comprehensive Plan**</u> – The 2014 Crest Hill Comprehensive Plan is a land use guide to ensure logical and orderly growth of the community. With this notion, this document was reviewed in comparison to this project to ensure that this guide is being followed. That analysis is discussed below in more detail.

The City's 2014 Comprehensive Plan assigns this property as Light Industrial on the Future Land Use Map. Light Industrial is further defined within this document stating, "Industrial uses include activities related to the manufacturing, fabrication, storage, and assembly of a variety of goods and materials. Industrial uses in Crest Hill vary greatly in terms of external impacts and relationship to surrounding development. In some cases, large industrial areas are separated by major streets or open spaces".

Since the property is already improved with a manufacturing use and the Applicant is preparing to add a solar array to help power this facility, the proposed improvement is in-line with the Crest Hill Comprehensive Plan.

Additionally, under the Development Improvement Considerations section (pages 50-51), the following item was also stated about enhancements made to the industrial properties, "New infrastructure should be designed to provide flexibility for future expansions and retrofits, especially in Crest Hill's potential industrial growth areas. This will allow the City to evolve its systems to respond to emerging technologies and services in an effort to remain competitive for long-term economic development."

This recommendation establishes the notion of modernizing facilities with emerging utility technology that can assist our business community with new energy sources and provide an economic benefit which results in a more competitive advantage. The proposed solar array will generate enough power to fulfill all of Hendrickson USA's operations thereby allowing this local employer to maintain operations with a cost-effective alternative power source.

### **STAFF RECOMMENDATION**

Staff recommends that the Plan Commission approve of the requested Special Use and the Variances. Should the Plan Commission recommend approval to the City Council, then the following conditions shall be considered as part of the recommendation:

### Conditions of Approval:

- 1. That the drawings submitted for a building permit shall be in substantial compliance with the drawings approved by City Council and identified below, unless otherwise noted in the remaining conditions:
  - Solar Ground Mount System Plans Engineered by PurePower Engineering last dated 3/28/2025

- Stormwater Management Permit Details Prepared by Hey and Associates Inc. Last Dated April 15, 2025
- Structural Detail Drawings Created by DCE Solar Sheets 1 through 5 Last Dated 3/6/2025
- Landscape Plans Created by Hey and Associates Inc. Last Dated 3/31/2025
- 2. The gravel driveway and loading area in the front of the accessory building on the property with the Permanent Index Number of 11-04-33-100-002-0000 shall receive a permit to transition this surface material to an approved surface material to be in compliance with Zoning Ordinance Section 11.6-1 and follow applicable construction standards. This specific area includes the driveway entrance from Caton Farm Road leading to the accessory building as well as to the gates of the solar array area. This permit shall be issued before May 19, 2026.
- The emergency access road containing the 3/4" limestone surface material shall be improved with a base material and construction method approved by the City Engineer. All details of the materials and construction methods shall be submitted with the building permit application for the solar array.
- 4. The thickness of stone for the temporary construction access road should be at least two inches thick.
- 5. Prior to permit issuance for the solar array the structural calculations report provided with through submittal will need to be signed and stamped by a Licensed Structural Engineer.
- 6. A Fire Truck Turning Performance Analysis shall be provided for review and approval as part of the building permit application submittal for the solar array.
- 7. If any new outdoor lighting is being proposed with this project, then a Photometric Plan shall be provided at time of submitting a building permit application to ensure compliance with applicable codes and regulations.
- 8. All required final design drawings and related supporting project information shall be submitted for final engineering review and approval in conjunction with the formal building permit application submitted for the solar array.
- 9. All new shade trees, ornamental trees, and evergreen trees proposed on north of the solar array shall be planted with a minimum height of six feet and a minimum of 2.5" caliber at time of planting.
- 10. All conditions made with this Ordinance shall be transferred to any new property owner.

### Attachments:

Attachment A – Plan Commission Application Attachment B – Application Submittals and Drawings



### EXHIBIT A – AERIAL PHOTO OF SUBJECT PROPERTY LOCATION WITH ZONING OVERLAY



### Application for Development

Project Name: Hendrickson USA	- Solar PV
Owner: Hendrickson USA LLC	Correspondence To: Grace Rasmussen, Verde Soluti
Street address:	Street address:
City, St., Zip:	City, St., Zip:
Phone:	Phone:
Email:	Email:
Property Address: Street address:	Property Information: Lot Width: 830.038 ft
City, St., Zip: Crest Hill, IL 60441	Lot Depth: 629.428
PIN: 11-04-33-10-002	Total Area: 549350.8329 sq ft (12.61 acres)
*Submit an electronic version of the leg ouildingdepartment@cityofcresthill.com	gal description only in a Word document to: <u>m</u>
Existing Zoning:	Existing Land Use: General Manufacturing District
Requested Zoning: <u>M2</u>	Proposed Land Use: General Manufacturing District
Adjoining Properties Zoning and Uses: North of Property: <u>11-04-28-100-003 Stat</u>	
South of Property: 11-04-33-100-006	Commonwealth Edison Co
East of Property: <u>11-04-33-10-003</u> He	ndrickson USA LLC
West of Property: <u>11-04-33-100-001</u> F	

Purpose Statement (intended use and approval sought):

Install 1.18 MW of fixed tilt ground mounted solar contained within a fence. Total area with fence is approximately 4.7 acres. The solar array is set back approximately 180 feet from Caton Farm Road. **Development Request:** Please check all that apply and describe:

[] Rezoning:		
[X] Special Use: Ground Mounted Solar PV		
[ ] Variance:		
[ ] Planned Unit Development:		
[ ] Annexation:		
[ ] Plat:		
[ ] Other:		
<b>Contact Information</b> – If not yet known, please indicate all correspondences should be forwarded.	e as TBD. Check those parties in which copies of	
[ ] Civil Engineer:	_Phone:	
Company:	Email:	
[X] Contractor: Grace Rasmussen	Phone:	
Company: Verde Solutions LLC	Email:	
[ ] Architect:	_ Phone:	
Company:	Email:	
[ ] Builder:	Phone:	
Company:	Email:	
I agree to be present (in person or by counsel) when the development request.	e Plan Commission and City Council hear this	
Grace Rasmussen Signature of the Applicant	3/10/2025	
Signature of the Applicant	Date	
If you (the applicant) are not the owner of record, please provide the owner's signature.		
Cli Zo	03/14/25	

Signature of the Owner

Date

### Attachment B



March 31, 2025

### Special Use Permit Request for Ground Mounted Solar PV at 501 Caton Farm Road Crest Hill, IL 60441

To Whom It May Concern,

Verde Solutions is partnering with Hendrickson USA to develop a 4.8-acre ground mounted solar PV system at their facility located at 501 Caton Farm Road. The 12-acre field is owned by Hendrickson. Verde Solutions has over 10 years of experience in the solar industry, specializing in Illinois with our office located in Chicago.



Nearmap Imagery Taken October 10, 2024

### **Design and Intent**

The system consists of (1,992) solar modules, equating to 1.185 MW DC capacity, and is intended to offset approximately 100% of Hendrickson's annual electric consumption. The panels are fixed at a 30-degree tilt to the south and arranged into nine rows. The array is enclosed with a fence and is setback approximately 180 feet south of Caton Farm Road. The solar system interconnects to Hendrickson's electrical infrastructure to supply their electrical needs behind the utility meter. The project received ComEd's interconnection and net metering approval



March 7, 2025. All proposed solar equipment complies with the 2020 National Electric Code and City of Crest Hill ordinances. The inverters and utility AC disconnect are to be fenced in and located near their existing utility transformer on the west side of the main building.

#### Site Improvements

The proposed developed area of 4.8 acres will comply with the City's Building Ordinance Chapter 15. The landscaping plan includes (216) new trees and shrubs. Much of the proposed landscaping will screen the array from Caton Farm Road. The ground under the array will be covered with a native seed mix and include an erosion control blanket. The stormwater report describes how the ground mounted solar will affect the current drainage plan. It was determined that site runoff storage is not required for this project.

The fence is 6 feet tall chain link style with 1 foot of barbed wire. There is a 16-foot-wide vehicle access gate located at the northeast corner of the array.

Upon discussion with the City and Lockport Fire Protection District (LFPD), a gravel access path will be provided around the perimeter of the array within the fence to be used for emergency access. The gravel will be  $\frac{3}{2}$  limestone loosely compacted. A variance is requested to accommodate this, as the path will be used for emergencies. Adequate turn clearance is provided per the Pierce Turning Performance Analysis provided by LFPD.

#### **Operations and Maintenance**

Once the solar system is installed, there is very little maintenance required. The solar system is fully static and rarely requires hands-on troubleshooting after energization. We offer maintenance packages custom to the client but a small percentage of our clients choose to do so. We recommend it is not necessary in the first five years of operation because adequate IL rainfall and the tilt of the modules naturally minimize dust and debris accumulation.

Maintenance and operations are primarily supported by the remote monitoring system, which alerts us and the client of any potential system faults. Most of these faults occur during system testing and commissioning, so our installers are still on site to address them. If a fault arises after we leave the site, we will first detect it remotely and work to resolve it. Should the issue require on-site attention, we will send 1-2 team members to troubleshoot. It usually takes a few hours to half a day.

The equipment has long warranties: Modules - 30 year performance, inverters - 20 year extended, and racking - 20 years.

If the client opts for our standard Verde Maintenance & Operations plan, we will perform a site visit once a year for one day, typically involving a visual inspection and documentation (1-2 people). If the plan is not selected, the system will remain hands-off.

#### **Decommissioning Plan**

While a decommissioning plan is not included in the active and current EPC contract with Hendrickson, we will offer to do so at the client's request when the time comes. As an industry standard, the expected useful life of the solar system is 30 years. The solar panels are warrantied against a 0.5% production degradation each year. By year



30, the solar panels will be producing 85% of their original output. The solar system will continue to produce long after that, and it would be up to the client to decide to leave the system as is, upgrade to newer technology, or explore system removal.

During system removal, Verde would remove all of the tangible property relating to the solar system. The land would be restored to its original condition with the exception of buried conduits.

Verde Solutions would use Com2 Recycling Solutions for the Removal and Decommissioning of the dated solar panels. Com2 Recycling Solutions is an R2 Certified recycling company located in Chicagoland which complies with all rules and regulations relative to the recycling of solar panels and inverters. The Certificate of Recycling (COR) would be issued once fully recycled.

### **About Verde Solutions**

Verde Solutions, founded in 2012 by Christopher Gersch, is a leader in energy efficiency and sustainability solutions. With over 2,600 completed projects across 48 states, we bring proven expertise in energy reduction and generation solutions for commercial, industrial, educational, and municipal projects. We have consistently demonstrated growth and leadership, earning recognition on the INC 5000 list multiple times and inclusion in Solar Power World's top commercial solar contractors in 2024. Our extensive experience with educational institutions and municipalities ensures that we are well-equipped to deliver a successful project. Notable similar projects that we have completed include a 777kW-DC ground mount for the Minooka Wastewater Treatment plant, a 1.2 MW ground mount at a gravel pit in Lakemoor, a combo rooftop and ground mount for a commercial client in St. Charles, and a 2MW rooftop and ground mount for the College of Lake County.

#### **Further Discussion**

The City identified a wetland on the neighboring parcel to the south (ComEd, 11-04-33-100-006-0000). The wetland firm is unable to complete a full delineation until ground conditions are favorable in May. Due to the IL Shines solar incentive block closing on June 1, 2025, which requires Special Use Permit approval, it was mutually agreed with the City that, following the wetland delineation results, the solar array will be adjusted if necessary to avoid negatively impacting the current drainage to the wetland. However, given the wetland is not in close proximity to the array, Verde does not anticipate the array moving much, if at all. The official wetland delineation will be promptly shared with the City and the impact to the array will be identified. The IL Shines solar incentive is lucrative and essential to the progress of this project.

Given our vast experience with solar ground mounts and Greater Chicagoland municipalities, we consider the landscaping and fire protection requirements to be above and beyond what other municipalities have required for parcels without neighboring residential zones. However, we fully understand that this project is subject to Crest Hill's approval and are eager to coordinate a successful solar system with the City.



We thank you for your consideration of this project and look forward to continuing discussions.

Regards,

Grace Rasmussen, Verde Solutions Project Engineer grasmussen@verdesolutions.com 312-268-2025

Site Plan Documents included in submission:

- 1. ALTA Survey
- 2. Electrical Construction Set Site Plan, Equipment Elevations, Single Line Diagram, NEC Labels
- 3. Racking Construction Set
- 4. Racking Structural Calculations
- 5. Landscaping Plan
- 6. Stormwater Report

## Hey and Associates, Inc.

## Solar Ground Mount System at Hendrickson USA

Crest Hill, Will County, Illinois Stormwater Management Permit

Hey Project No. 25-0072

Prepared For: Verde Solutions

### Prepared by: Hey and Associates, Inc.

Engineering, Ecology and Landscape Architecture

### Main Office:

26575 W. Commerce Dr., Ste 601 Volo, Illinois 60073 847-740-0888 (phone) 847-740-2888 (fax)

### Additional Offices:

<u>Chicago, IL</u> 8755 W. Higgins Rd., Ste 835 Chicago, Illinois 60631 773-693-9200 (phone) 773-693-9202 (fax)

Illinois Professional Design Firm 184.002429 / Wisconsin Architectural and Engineering License # 2340-11 Staff licensed to practice in Illinois, Wisconsin, Indiana, Michigan and Oregon IDOT and WisDOT Prequalified

### **Table of Contents**

Introduction	2
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Impervious Areas	3
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### Exhibits

Exhibit 1 - Location Map

Exhibit 2 - Drainage Plan

Exhibit 3 – FEMA FIRMETTE

### Appendices

Appendix A – Planset

### INTRODUCTION

Hey and Associates, Inc. (Hey) was retained by Verde Solutions to prepare permit documentation as part of the Solar Ground Mount System at Hendrickson USA project (Project). The site is located in the City of Crest Hill, Will County, Illinois. The project is further located in Section 33 of Township 36 North, Range 10 East in Lockport Township. See Exhibit 1 for an overall project location map.

The project includes the installation of solar panels on a grass field to provide energy for the manufacturing facility on site. Some existing trees will be removed to avoid interference with the solar panel performance. The area under the solar panels will be seeded with a pollinator habitat seed mix, and a variety trees and shrubs will be planted as well.

### SITE RUNOFF AND SITE RUNOFF STORAGE

The site generally drains towards the southeast. After leaving the site boundaries, the drainage pattern continues towards the southwest into a swale along the north of the railroad. The swale then joins with a channel that flows towards the east and eventually empties into the Des Plaines River. This drainage pattern will be maintained in the proposed conditions. The drainage plan for the site is included as Exhibit 2.

According to section 55.020.C.3 of the Will County Code of Ordinances, solar farm developments are exempt from site runoff storage provided the following criteria are met:

- a) Groundcover vegetation is maintained in good condition
- b) The total proposed impervious area is less than 25,000 square feet
- c) The open space between the panels are equal or greater than the panel width
- d) The runoff will sheet flow through the site with a slope of less than 5 percent

These criteria are met, as described in the sections below, and therefore site runoff storage is not required for this project. Additionally, the following sections illustrate compliance with sections 15.20.030 and 15.20.070 from the Crest Hill Code of Ordinances.

### **GROUNDCOVER VEGETATION**

The entire area under the proposed solar panels will be seeded with a native seed mix. The seed mix and location is described in the landscaping plan sheets, which are included in Appendix A. The proposed groundcover vegetation will be maintained in good condition by the owner.

### **IMPERVIOUS AREAS**

No impervious area is proposed on the site. An access road constructed of loosely compacted 3/4" gravel is proposed around the solar panels. However, loosely compacted gravel is not considered impervious by the City of Crest Hill and so is not counted as proposed impervious area.

### SOLAR PANEL SPACING AND SHEET FLOW

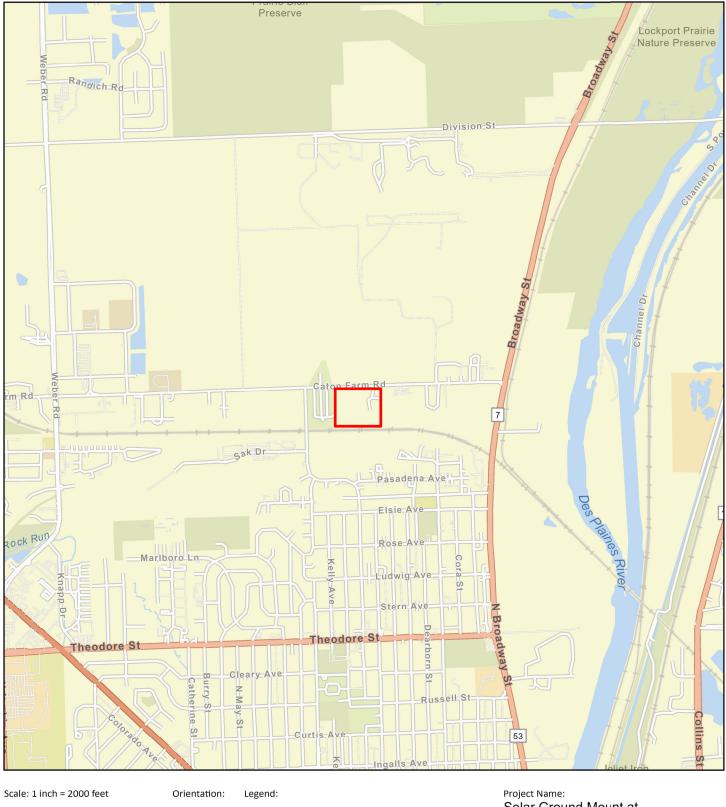
The solar panels have a width of 12.97 feet, and each row of panels will be installed with a 19.17 foot space between them, meeting the requirement that the open space must be wider than the solar panels. The panels will be at a 30-degree angle, so runoff will sheet flow onto the ground. The slope of the ground underneath the panels varies, with the northwestern area containing a generally steeper slope that becomes more gradual at the southeast corner. The average ground slope is approximately 2.15% underneath the panels, which is within the ordinance guidelines.

### SEDIMENT AND EROSION CONTROL

The seeding mix proposed for the solar panel area will be installed with erosion control blanket to protect against erosion and promote seed establishment and growth. Additionally, a total of 216 trees and shrubs are to be planted on site in accordance with section 15.04.040 of the Crest Hill Ordinance. These plantings will provide further permanent erosion control on site.

### **SPECIAL MANAGEMENT AREAS**

There is no floodway or floodplain on site, as shown in Exhibit 3. There are also no wetlands on site.



Feet



Project Site

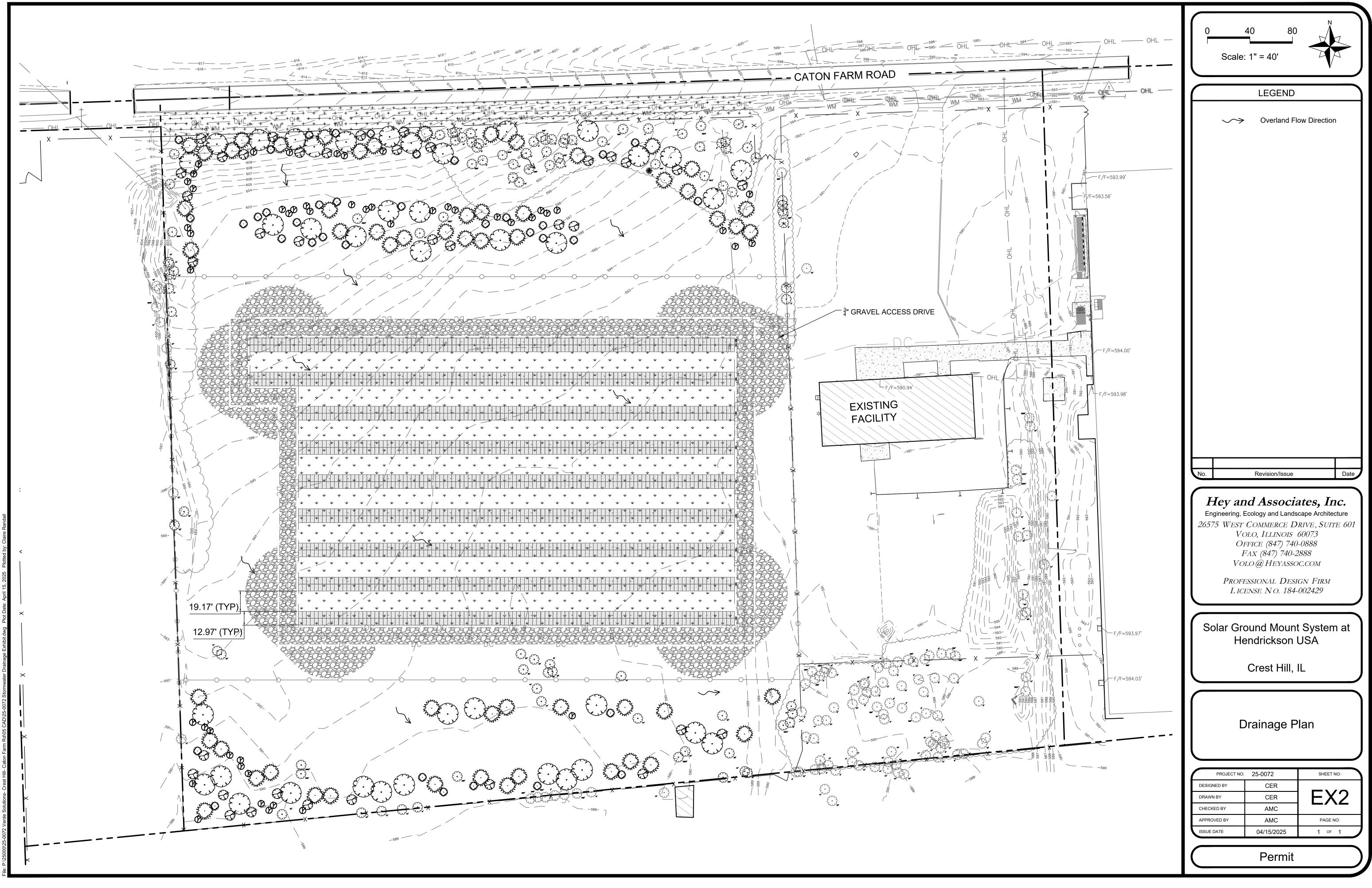
Project Number: 25-0072

Date: 3/13/2025

Project Name: Solar Ground Mount at Hendrickson USA Prepared for: Verde Solutions



2,000



## National Flood Hazard Layer FIRMette



### Exhibit 3 - FEMA FIRMETTE

Legend

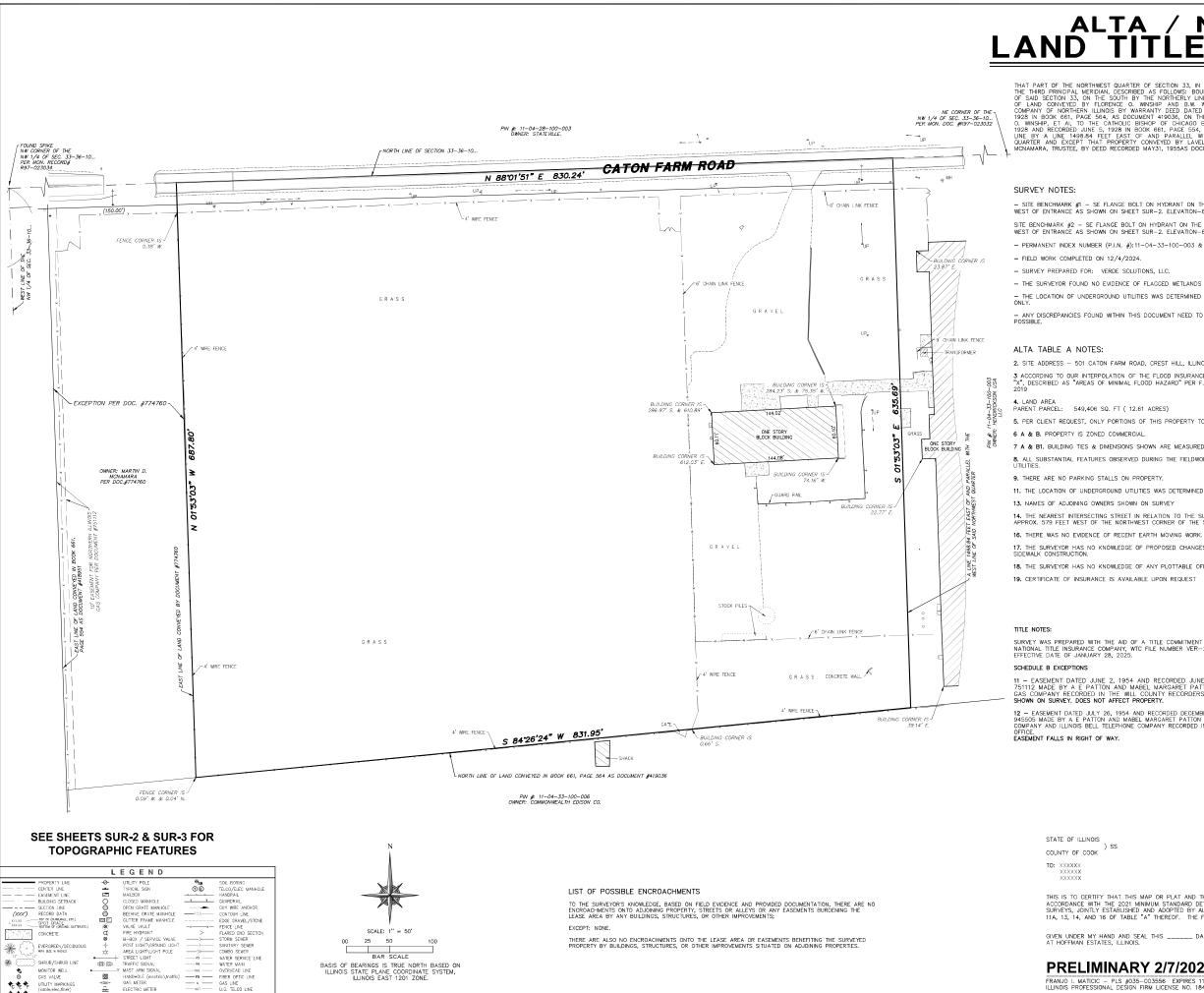
#### 88°6'14"W 41°34'11"N SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) Zone A. V. A9 With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS **Regulatory Floodway** 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X T36N R10E S28 Area with Reduced Flood Risk due to T36N R10E S29 Levee. See Notes. Zone X OTHER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee Zone D NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D AREA OF MINIMAL FLOOD HAZARD Zone ) — – – Channel, Culvert, or Storm Sewer GENERAL STRUCTURES LIIII Levee, Dike, or Floodwall Project Site 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation (HEYOF CRESTHILL **Coastal Transect** Mase Flood Elevation Line (BFE) 170699 Limit of Study Jurisdiction Boundary 17197C0153G **Coastal Transect Baseline** OTHER Profile Baseline eff. 2/15/2019 FEATURES Hydrographic Feature **Digital Data Available** No Digital Data Available MAP PANELS Unmapped T36N R10E S33 The pin displayed on the map is an approximate T36N R10E S32 point selected by the user and does not represent an authoritative property location. E Zone AE This map complies with FEMA's standards for the use of Zone AE FLOODW/ digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap ΔF accuracy standards The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/13/2025 at 9:32 PM and does not reflect changes or amendments subsequent to this date and Zone AE time. The NFHL and effective information may change or become superseded by new data over time. This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for 88°5'37"W 41°33'44"N Feet 1:6,000 unmapped and unmodernized areas cannot be used for regulatory purposes. 250 500 1,000 1.500 2,000

Basemap Imagery Source: USGS National Map 2023

Appendix A

**Plan Set** 

Hey and Associates, Inc.



GAS VALVE

GAS LINE U.G. TELCO LINE

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# ALTA / NSPS LAND TITLE SURVEY

THAT PART OF THE NORTHWEST QUARTER OF SECTION 33, IN TOWNSHIP 36 NORTH, RANGE 10, EAST OF THE THRD PRINCIPAL MERIDIAN, DESCRIED AS FOLLOWS: BOUNDED ON THE NORTH EUX THE NORTH LINE OF SAID SECTION 33, ON THE SOUTH BY THE NORTHELY LINE AND ON SAID LINE EXTENDED WESTERLY OF LAND CONVEYED BY FLORENCE 0. WINSHIP AND BW. WINSHIP, ET AI, TO THE PUBLIC SERVICE COMPANY OF NORTHERN ILLINOIS BY WARRANTY DEED DATED APRIL 14, 1928 AND RECORDED JUNE 7, 1928 IN BOOK 661, PAGE 564, AS DOCUMENT 419056, ON THE WEST BY LAND CONVEYED BY FLORENCE 0. WINSHIP, ET AI, TO THE CATHOLIC BISHOP OF CHICAGO BY WARRANTY DEED DATED FERRUARY 10, 1928 AND RECORDED JUNE 5, 1928 IN BOOK 661, PAGE 554, AS DOCUMENT 418951, AND ON THE EAST LINE BY A LINE 1498.84 FEET EAST OF AND PARALLEL WITH THE WEST LINE OF SAID NORTHWEST LINE BY A LINE 1498.84 FEET EAST OF AND PARALLEL WITH THE WEST LINE OF SAID NORTHWEST GUARTER AND EXCEPT THAT PROPERTY CONVEYED BY LAVEL BUILDING CORPORATION TO MARTIN D. MCNAMARA, TRUSTEE, BY DEED RECORDED MAY31, 1955AS DOCUMENT 774760, IN WILL COUNTY, ILLINOIS.

- SITE BENCHMARK #1 SE FLANGE BOLT ON HYDRANT ON THE SOUTH SIDE OF CATON FARM ROAD, 592' WEST OF ENTRANCE AS SHOWN ON SHEET SUR-2. ELEVATION-614.65' (NAVD88).
- SITE BENCHMARK #2 SE FLANGE BOLT ON HYDRANT ON THE SOUTH SIDE OF CATON FARM ROAD, 600.65' WEST OF ENTRANCE AS SHOWN ON SHEET SUR-2. ELEVATION-600.65' (NAVD88)
- PERMANENT INDEX NUMBER (P.I.N. #):11-04-33-100-003 & 11-04-33-100-002
- THE SURVEYOR FOUND NO EVIDENCE OF FLAGGED WETLANDS ON THE SURVEYED PROPERTY
- THE LOCATION OF UNDERGROUND UTILITIES WAS DETERMINED BY FIELD OBSERVATION AND VISIBLE MARKINGS ONLY.
- ANY DISCREPANCIES FOUND WITHIN THIS DOCUMENT NEED TO BE REPORTED TO THE SURVEYOR AS SOON AS POSSIBLE.

- 2. SITE ADDRESS 501 CATON FARM ROAD, CREST HILL, ILLINOIS.
- 3 ACCORDING TO OUR INTERPOLATION OF THE FLOOD INSURANCE RATE MAP THIS SITE IS LISTED AS BEING IN A ZONE "X", DESCRIBED AS "AREAS OF MINIMAL FLOOD HAZARD" PER F.E.M.A. PANEL NO.17197C0153G DATED FEBRUARY 15TH,
- 5. PER CLIENT REQUEST, ONLY PORTIONS OF THIS PROPERTY TO BE SHOWN WITH ELEVATIONS & CONTOURS.
- 7 A & B1. BUILDING TIES & DIMENSIONS SHOWN ARE MEASURED FROM THE OUTSIDE FACE OF THE BUILDING.
- 8. ALL SUBSTANTIAL FEATURES OBSERVED DURING THE FIELDWORK ARE PLOTTED HEREON, INCLUDING ANY ABOVE-GROUND UTILITIES.
- 11. THE LOCATION OF UNDERGROUND UTILITIES WAS DETERMINED BY FIELD OBSERVATION, VISIBLE MARKINGS ONLY.
- 14. THE NEAREST INTERSECTING STREET IN RELATION TO THE SURVEYED PROPERTY IS OAKLAND AVENUE, WHICH LIES APPROX. 579 FEET WEST OF THE NORTHWEST CORNER OF THE SURVEYED PROPERTY
- 17. THE SURVEYOR HAS NO KNOWLEDGE OF PROPOSED CHANGES IN STREET RIGHT OF WAY LINES OR RECENT STREET OR SIDEWALK CONSTRUCTION.
- 18. THE SURVEYOR HAS NO KNOWLEDGE OF ANY PLOTTABLE OFFSITE EASEMENTS.
- 19. CERTIFICATE OF INSURANCE IS AVAILABLE UPON REQUEST
- SURVEY WAS PREPARED WITH THE AID OF A TITLE COMMITMENT PREPARED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, WITC FILE NUMBER VER-2025WL-97690, HAVING AN EFFECTIVE DATE OF JANUARY 28, 2025.
- 11 EASEMENT DATED JUNE 2, 1954 AND RECORDED JUNE 8, 1954 AS DOCUMENT NO. 751112 MADE BY A E PATTON AND MABEL MARGARET PATTON TO NORTHERN ILLINOIS GAS COMPANY RECORDED IN THE WILL COUNTY RECORDERS OFFICE. SHOWN ON SURVEY, DOES NOT AFFECT PROPERTY.
- 12 EASEMENT DATED JULY 26, 1954 AND RECORDED DECEMBER 11, 1961 AS DOCUMENT NO. 945505 MADE BY A E PATTON AND MABEL MARGARET PATTON TO COMMON WEALTH EDISON COMPANY AND ILLINOIS BELL TELEPHONE COMPANY RECORDED IN THE WILL COUNTY RECORDERS OFFICE

  - ) SS

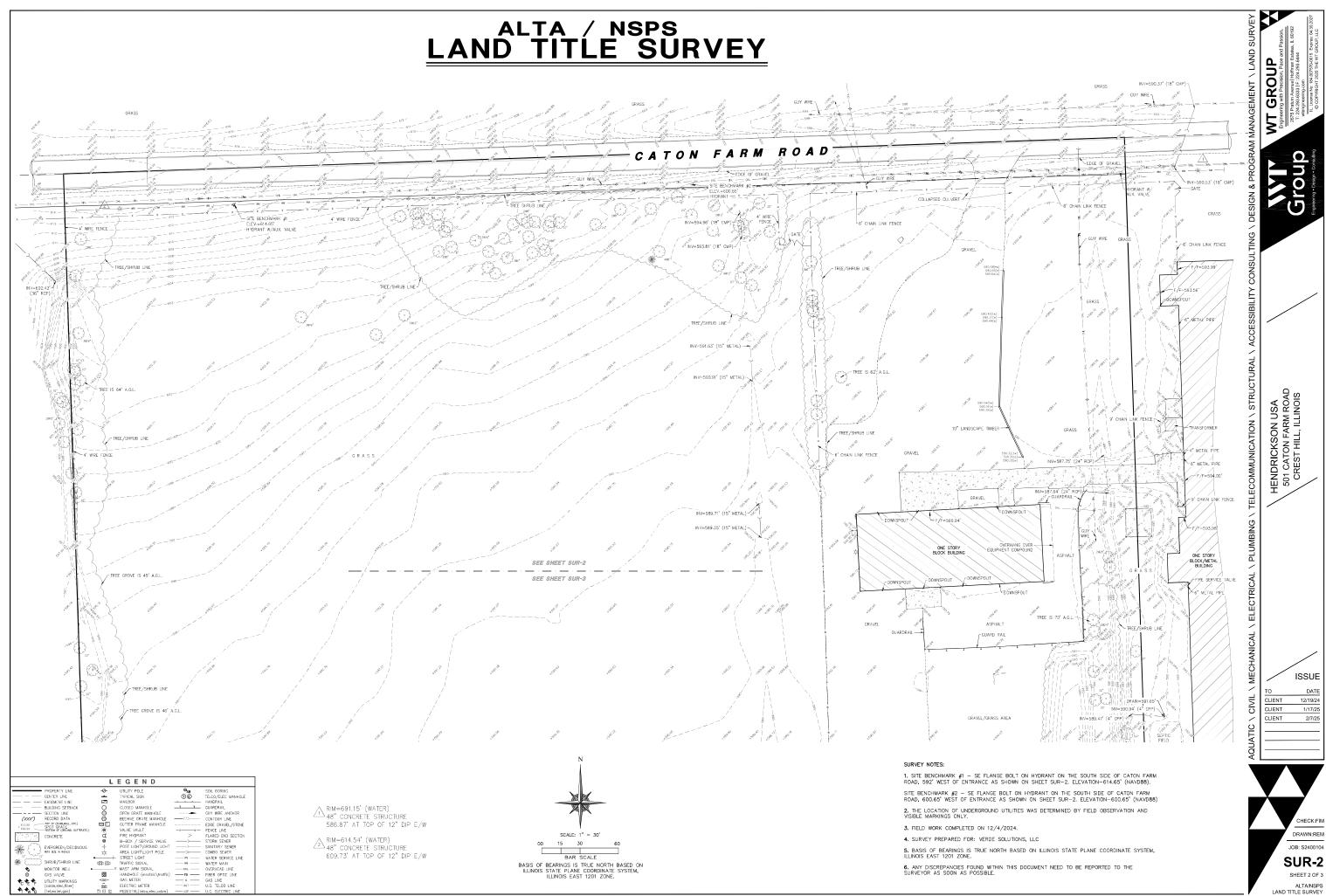
THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN INIS IS IC CEMINI INTA INTS MAR OR FLATAND THE SOAVEL DIN MICHTI IS BASED WREAK MALE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALLA ANSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND MSPS, AND INCLUDES ITEMS 3, 6A, 7A, 8, 9, 11A, 13, 14, AND 16 OF TABLE "A" THEREOF. THE FIELD WORK WAS COMPLETED ON 12/4/2024

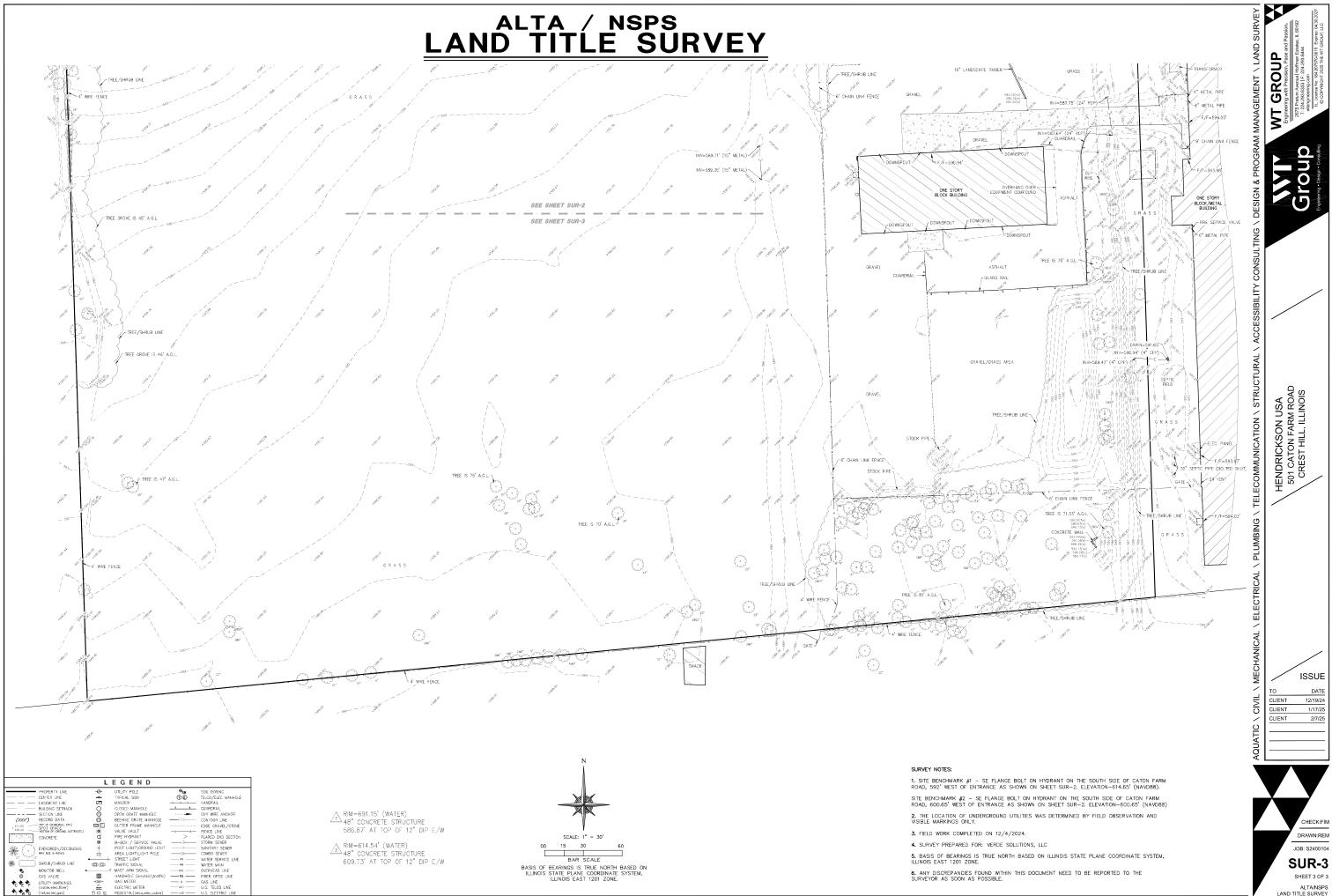
. A.D. \_ GIVEN UNDER MY HAND AND SEAL THIS \_\_\_\_\_ DAY OF \_\_\_\_ AT HOFFMAN ESTATES, ILLINOIS.



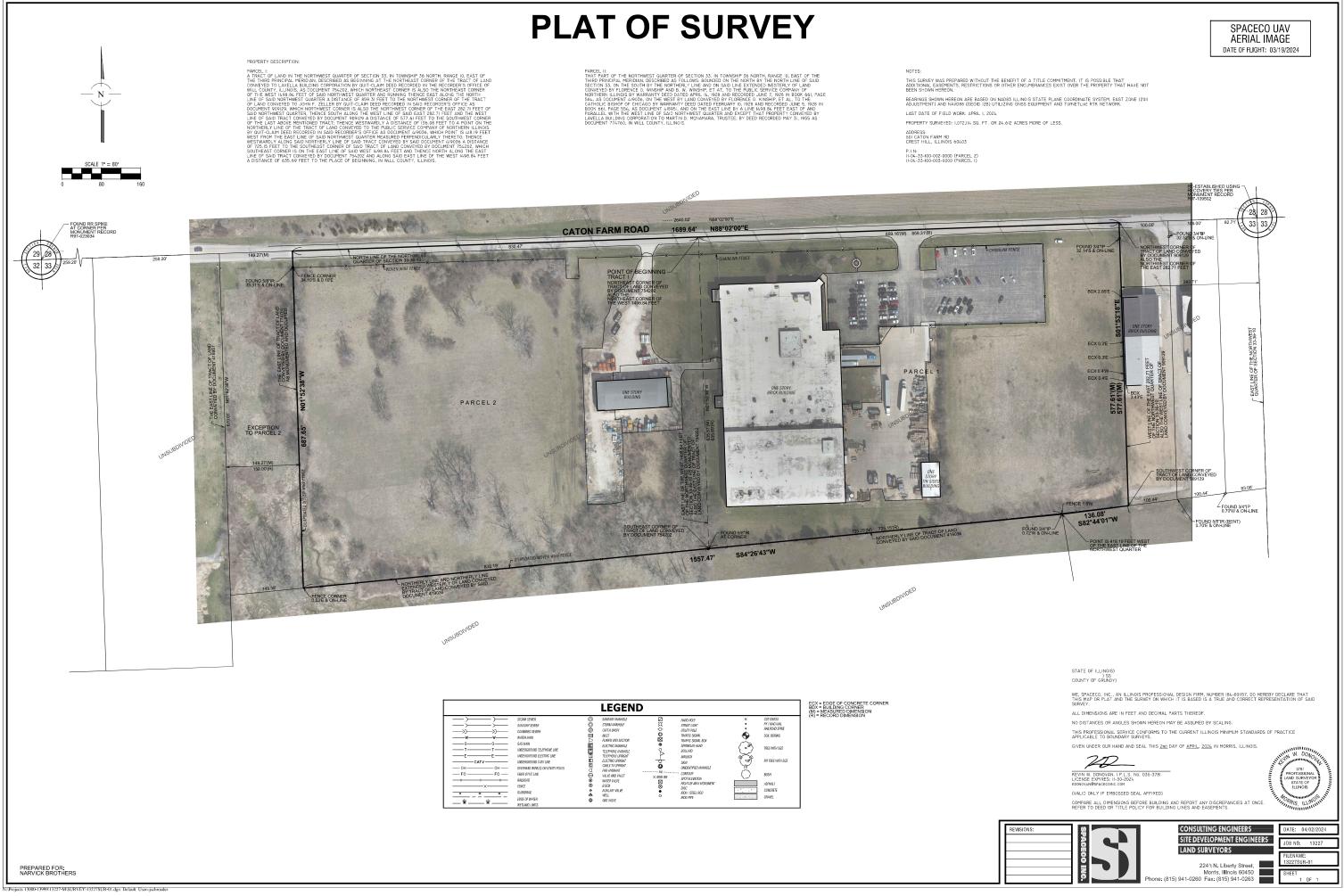
FRANJO I. MATICIC - PLS #035-003556 EXPIRES 11/30/2026 ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184.007570-0015







ALTA/NSPS LAND TITLE SURVEY



# SOLAR GROUND MOUNT SYSTEM AT HENDRICKSON USA 501 CATON FARM RD, LOCKPORT, IL 60441



LOCATION MAP SCALE: 1'' = 1000' - 0''

SYSTEM PLAN SCALE: 1" = 80' - 0"

### TOTAL SYSTEM SUMMARY:

TOTAL DC SYSTEM SIZE: TOTAL AC SYSTEM SIZE:

<u>9</u>\_\_

w\_\_\_

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MODULE MANUFACTURER: (QTY) MODULE TYPE 1:

MODULE TILT:

MODULE AZIMUTH:

JINKO SOLAR (1,992) JKM595N-72HL4-BDV

1,185.24 kWDC

900.00/947.700 kWAC/KVA

30° 180°

INVERTER MANUFACTURER: CHINT POWER SYSTEMS (QTY) INVERTER TYPE 1: (9) CPS SCH100KTL DO/US-480

NOTES SPECIFIC TO ILLINOIS ADOPTED NEC VERSION: 2008 (SET DESIGNED TO NEC 2023) ADOPTED IBC VERSION: 2021

SCOPE OF WORK SUMMARY

GROUND MOUNT PV ARRAY: INSTALL SOLAR MODULES AND RACKING SYSTEM ON GROUND LEVEL. INSTALL INVERTERS AND ELECTRICAL DISTRIBUTION EQUIPMENT. INTERCONNECT AT EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT.

DEVELOPER:

IN



2211 N ELSTON AVE SUITE 208 CHICAGO, IL 60614

#### ENGINEERED BY:



111 RIVER STREET, SUITE 1110 HOBOKEN, NEW JERSEY 07030

#### DRAV

GENEF	RAL
G001	TITLE S
ELECT	RICAL
E001	ELECTR
E100	OVERAL
E101	AC ELE
E200	DC ELE
E300	ONE LI
E310	SCHEDU
E410	GROUN
E420	ELECTR
E500	LABELS
E600	EQUIPM
E601	EQUIPM
-	

	D D D ENG	TL DG LP
	REVISION DESCRIPTION 90% DESIGN REVI 90% DESIGN	30% CONCEPTUAL DESIGN
41	DATE DATE 03/26/2025	01/13/2025
		IL LICENSE No. 062.076098 01
	NOTE: GERNA IETAS, N. TAS. P. ANST. NOTE: GERNA IETAS, N. TAS. P. ANST. RETROED ON CONCURSTANTIAN PROJECT, UMANDATE PERSOLUTION, PROJECT, UMANDATE PERSOLUT	ALL RIGHTS RESERVED
	VERDE SOLUTIONS 2211 N. ELSTON ANE 2211 N. ELSTON ANE MCHARGOL IN 66614 WCHARGSOLTIONS.COM	
DRAWING INDEX	рекелорея Серена Воситокия	
E101     AC ELECTRICAL PLAN       E200     DC ELECTRICAL PLAN       E300     ONE LINE DIAGRAM       E310     SCHEDULES & CALCULATIONS       E410     GROUNDING DETAILS       E420     ELECTRICAL DETAILS	PRAGE SIZE 36" × 24" PROJECT # 11014 6.01	
E500       LABELS & SIGNAGE         E600       EQUIPMENT DATA SHEETS         E601       EQUIPMENT DATA SHEETS         LEGEND:       UPDATED DRAWING ISSUED         UPDATED DRAWING ISSUED       O         DRAWING REMOVED FROM SET       X	SOLAR GROUND MOUNT SYSTEM AT HENDRICKSON USA 501 CATON FARM ROAD	LUCKPURI, IL 60441
DRAWING TITLE SI	HEET GOO1	

#### FLECTRICAL NOTES

- <u>GENERAL</u>
   <u>ALL</u> WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) TO APPLICABLE UL STANDARDS. THE CONTRACTOR SHALL PROCURE ALL NECESSARY CERTIFICATIONS FOR ALL WORK INSTALLED, PAY ALL FEES AND CHARGES CONNECTED THEREWITH AND DELIVER ALL CERTIFICATES AND INSPECTION APPROVALS TO THE OWNER THROUGH THE ENGINEER, BEFORE WORK WILL BE FINALLY ACCEPTED.
   ALL INVERTERS SHALL BE IEEE 1547 COMPLIANT AND SHALL BE INSPECTED BY LOCAL UTILITY BEFORE COMMISSIONING, TESTING AND OPERATION OF THE SYSTEM.
   UNESS OTHERWISE NOTED, NEW EQUIPMENT SHALL HAVE AN INTERRUPT RATING (KAIC) OR SHORT CIRCUIT CURRENT RATING (SCCR) GREATER THAN OR EQUAL TO THE EXISTING EDUIPMENT.
- FOUIPMENT

w\_\_\_

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- MANNER OF INSTALLATION
   A. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. ALL DETAILS OF THE INSTALLATION SHALL BE MECHANICALLY AND ELECTRICALLY CORRECT.
   2.B. TORQUE AND MARK ALL RACKING AND MECHANICAL LUGS.

- CONDUCTORS AND CONDUCTOR INSTALLATION
   CONDUCTORS AND CONDUCTOR INSTALLATION
   WHERE POSSIBLE, ALUMINUM CABLE TERMINATIONS SHALL BE MADE WITH COMPRESSION LUGS OR MECHANICAL LUGS WITH COMPRESSION PIN ADAPTORS. REQUEST CLIENT APPROVAL FOR ALTERNATIVES.
   IF ALUMINUM MULTICONDUCTOR CABLE IS USED, THHN/THWN-2 INSULATION IS ACCEPTABLE. FOR SINGLE ALUMINUM CONDUCTORS, XHHW-2 SHALL BE USED.
   CANTI-OXIDANT COMPOUND SHALL BE USED WITH ALL ALUMINUM LUGS. CLEAN OXIDATION FROM WIRE STRANDS WITH STELL WIRE BUSH PRIOR TO APPLICATION OF COMPOUND.
   PV SYSTEM CONDUCTORS SHALL BE MARKED AND IDENTIFIED PER NEC 690.31(B).
   INSTALL WIRE AND CABLE IN ACCORDANCE WITH THE NEC AND AS HEREINAFTER SPECIFIED. USE THE NATIONAL ELECTRICAL CONTRACTORS SUPERSEDED BY THESE
- USE THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATIONS "STANDARD OF INSTALLATION", THE MANUFACTURER'S WRITTEN INSTRUCTIONS, UNLESS SUPERSEDED BY THESE SPECIFICATIONS. IN ALL CASES THE INSTALLATION SHALL BE IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES. THE USE OF WIRE SPLICES AT ANY POINT IN THE INSTALLATION IS STRICTLY PROHIBITED THE USE OF WIRE LUBE IS REQUIRED FOR ALL WRE PUILLS THROUGH CONDUIT RUNS OF 20 OR LONGER, OR WITH BENDS IN 180' OR MORE. WIRE LUBE IS REQUIRED EVEN WHEN 3.F. 3.G.
- 20' OR LONGER, OR WITH BENDS IN 180' OR MORE. WIRE LUBE IS REQUIRED EVEN WHEN USING SELF LUBRICATING CABLES SUCH AS SOUTHWIRE 'SIMPULL'. STRING WRING & HOMERUNS SHALL BE SECURED TO UNDERSIDE OF THE RACKING & MODULES USING SUNBUNDLERS OR EQUIVALENT APPROVED BY EEOR. TRANSITION TO EVEN USING OF ARRAY. NEGATIVE HOMERUN SHALL BE RUN PARALLEL TO POSITIVE HOMERUN. EACH DC STRING WIRING CONDUIT SHALL HAVE AN EGC. ALL PV SOURCE CIRCUITS WHICH WOULD BE EXPOSED TO PHYSICAL DAMAGE SHALL BE PROTECTED IN CONDUIT OR CABLE TRAY. ALL PV SOURCE CIRCUITS WITH OHRCT EXPOSURE TO SUNLIGHT SHALL BE PROTECTED THROUGH THE USE OF CONDUIT, PROTECTIVE WRAP, SPLIT LOOM, OR EQUIVALENT, WHICH ARE DURABLE FOR THE ENVIRONMENT AND RATED FOR THE APPLICATION. ALL PU SOURCE CIRCUITS, SMALE MADE AND CONTOR SHALL BE OF THE SAME TYPE AND OF THE SAME MANUFACTURER. "COMPATIBLE" CONNECTORS SHALL NOT BE ACCEPTED (IEC 62446-1). 3.H.
- 3.I. 3.J.
- 3.K.
- 3.L.
- 3.M.
- 3 N
- OF THE SAME MANUFACTURER. "COMPATIBLE" CONNECTORS SHALL NOT BE ACCEPTED (IEC 62446-1). ALL FIELD-MADE PLUG & SOCKET CONNECTORS SHALL BE INSTALLED USING MANUFACTURER APPROVED TOOLS AND METHODS, AND CABLE GLANDS SHALL BE TIGHTENED TO MANUFACTURER'S SPECIFIED TORQUE VALUE. ALL CONDUCTORS AND CABLES RATED OVER 1000V SHALL NOT BE BENT AT RADIUS LESS THAN 12X THER DIAMETER, OR AS SPECIFIED BY DATASHEET. CABLE TIES INSTALLED OUTDOORS SHALL BE TYPE 2, 25, 21, OR 215. IN ADDITION TO THESS ALLOWED TYPES, ONLY TIES THAT ARE UV RESISTANT AND HAVE A 25-YEAR SERVICE LIFE SHALL BE USED CONDORS. NO UNLISTED OR UNLABELED TIES LACKING MARKINGS SHALL BE USED. CABLE TIES OR SUPPORTS OF STAINLESS 316 SHALL BE CONSIDERED TO HAVE A 25-YEAR SERVICE LIFE. 3.0.
- 4. <u>PHASE RELATIONSHIP</u>
  4.A. CONNECT FEEDERS TO MAINTAIN PHASE RELATIONSHIP THROUGH SYSTEM. PHASE LEGS OF FEEDERS SHALL MATCH BUS OR CABLE ARRANGEMENTS IN EQUIPMENT TO WHICH THE FEEDERS ARE CONNECTED. COLOR CODING SHALL BE AS FOLLOWS:

208/120 VAC A PHASE: BLACK, B PHASE: RED, C PHASE: BLUE

277/480 VAC OR 346/600 VAC A PHASE: BROWN, B PHASE: ORANGE, C PHASE: YELLOW

MEDIUM VOLTAGE AC (GREATER THAN 800 VAC) A PHASE: BLACK, B PHASE: RED, C PHASE: BLUE

### 1500 VDC, 1000 VDC, OR 600 VDC UNGROUNDED POSITIVE CONDUCTOR: RED UNGROUNDED NEGATIVE CONDUCTOR: BLACK

AC AND DC SYSTEMS: GROUNDED CONDUCTOR: WHITE GROUND: GREEN

4.B. GROUNDED CONDUCTORS (NEUTRAL) AND EQUIPMENT GROUNDING CONDUCTORS SMALLER THAN #4 MUST HAVE COLOR CODED INSULATION. WHERE COLOR CODED CABLE IS NOT USED, TAPE CONDUCTOR WITH OVERLAPPED COLORED TAPE FOR A MINIMUM OF 6° IN ACCESSIBLE LOCATIONS. COLOR CODING MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.

- CONDUITS AND RACEWAYS
   CONDUITS SHALL BE ENT WHERE NOT SUBJECT TO PHYSICAL DAMAGE. CONDUITS SHALL BE IMC OR PMC WHERE SUBJECT TO PHYSICAL DAMAGE. PVC CONDUITS ONLY PERMITTED IN BELOW GRADE DUCT BANKS.
   C.D RAWINGS SHOW RACEWAY LOCATIONS DIAGRAMMATICALLY. CONTRACTOR SHALL ADJUST ROUTING TO SUIT FIELD LOCATIONS DIAGRAMMATICALLY. CONTRACTOR SHALL ADJUST ROUTING TO SUIT FIELD LOCATIONS. ANY CHANGES TO PROPOSED ROUTING SHALL BE SUBMITED TO ENGINEER FOR REVIEW AND APPROVAL.
   D. FURNISH AND INSTALL ALL FITTINGS AND SPECIAL DEVICES INCESSARY FOR THE PROPER INSTALLATION, CONNECTION AND OPERATION OF THE SYSTEM. CONDUIT ELBOWS SHALL BE OF THE SAME MAKE, QUALITY AND FINISH AS THE CONDUIT USED.
   E. A PROTECTIVE COATING OF ASPHALT COMPOUND, PLASTIC SHEATH, OR OTHER EQUIVALENT PROTECTION SHALL BE APPLIED TO ANY GALVANIZED STEEL CONDUITS DIRECTLY BURIED IN EARTH.
- LARIH. EMT CONDUIT OUTDOORS SHALL USE COMPRESSION RAINTIGHT CONNECTORS, FACTORY STAMPED RAINTIGHT WITH COMPONENTS PROPERLY INSTALLED. 5.F.
- 5.G. PROVIDE EXPANSION FITTINGS WITH BONDING JUMPERS FOR EVERY 100' OF STRAIGHT METAL PROVIDE EXPANSION HITINGS WITH BONDING YOUR ELECTRIC TO CONDUT RUN. CONDUT EXPANSION AND DEFLECTION FITTINGS WITH BONDING JUMPERS SHALL BE USED WHENEVER CROSSING BUILDING EXPANSION AND SEISMIC SEPARATION JOINTS. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. ALL EMPTLY CONDUITS OVER 10' IN LENGTH SHALL BE PROVIDED WITH SYNTHETIC FIBER ROPE PULL 5.H.
- 5.I.
- PATCH AND REPAIR ALL SURFACES DAMAGED BY TRENCHING TO MATCH THE PREVIOUSLY 5.J.
- PATCH AND REPAR ALL SURFACES DAMAGED BY TRENCHING TO MATCH THE PREVIOUSLY EXISTING CONDITIONS. TRENCHING SHALL BE DONE SUCH THAT THE DISTANCE FROM ANY STRUCTURAL PILE TO THE NEAREST EDGE OF THE TRENCH IS AT LEAST EQUIVALENT TO THE DEPTH OF THE PILE. CONFIRM MINIMUM DISTANCE TO TRENCH WITH STRUCTURAL/RACKING EOR PRIOR TO DIGGING. ALL PRETRATIONS SHALL BE SEALED TO MAINTAIN THE EXISTING FIRE RATING. ALL CONDUITS ENTERING ENCLOSURES SHALL BE FITTED WITH PROTECTIVE BUSHINGS, INCLUDING CONDUIT WITH CONDUCTOR SIZES SMALLER THAN #4 AWG. METALLC CONDUITS ENTERING ENCLOSURED PER NEC. ALL CONDUIT ENTERING ENCLOSURES SHALL BE SEALED WITH AN APPROVED SEALANT (POLYMATER AFT). 5.K.
- 5.N. OLYWATER AFT)

- <u>ELECTRICAL ENCLOSURES</u>
   ALL OUTDOOR ENCLOSURES (PANELBOARDS, DISCONNECT SWITCHES, JUNCTION BOXES, COMBINER BOXES, ETC.) SHALL BE NEMA 3R, 4, OR 4X. ALL WALL OR RACK MOUNTED OUTDOOR ENCLOSURES SHALL HAVE A MINIMUM 2'-O" CLEARANCE ABOVE GRADE, AND A MINIMUM 1/4" CLEARANCE FROM WALL INDORE ENCLOSURES SHALL BE NEMA 1. 6.B. PANELBOARD DOORS SHALL BE QUARTER TURN LATCHES OR EXTERNAL HANDLE WITH INTERNAL LATCHES, NO SETS OF EXTERNAL SCREW DOWN CLAMPS. 6.C. NO PENETRATIONS OR CABLE ENTRIES IN THE TOP OF OUTDOOR ENCLOSURES. ENTER
- OUTDOOR ENCLOSURES FROM THE BOTTOM (PREFERRED) OR SIDE. 6.D. RIGID CONDUIT TERMINATING IN OUTDOOR ENCLOSURES SHALL USE MYERS-TYPE HUBS WITH
- GROUDD SCREWS (BOTTOM OR SIDE ENTRY). 6.E. EMT CONDUIT TERMINATING IN OUTDOOR ENCLOSURES SHALL USE RAINTIGHT FITTINGS
- BOTTOM OR SIDE ENTRY)

- 6.F. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED OR LABELED BY A RECOGNIZED TESTING AGENCY.
  6.G. ARC FLASH HAZARD WARNING LABELS SHALL BE PROVIDED AND MOUNTED ON EVERY NEW ENCLOSURE CONTAINING SERVICEABLE COMPONENTS SUCH AS CONDUCTOR TERMINATIONS, DISCONNECTS, OR OCPOS. THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING COMPONENTS: COMBINER BOX, TERMINAL BOX, INVERTER, AC AND DC SWITCH, TEAMSCOMPER JOIN SWITCHORE PRIMAL BOX, INVERTER, AC AND DC SWITCH, RANSFORMER, AND SWITCHGEAR.
- TRANSFORMER, AND SWITCHGEAR. 6.H. HAND HOLES, PULL BOXES, OR CONDUIT BODIES SHALL BE INSTALLED (WHETHER OR NOT SHOWN ON DRAWINGS) WHEN THE RACEWAY HAS MORE THAN 360° OF BEDDS, OR AS NECESSARY TO NOT EXCEED MANUFACTURER'S MAXIMUM CABLE PULLINE TENSION. 6.I. SWITCHBOARDS AND SWITCHGEARS SHALL BE PROVIDED WITH TEMPORARY INTERNAL HEATERS DURING LONG TERM STORAGE WHILE NOT ENRERGIZED AS REQUIRED BY THE MANUFACTURER. ALL OTHER EQUIPMENT SHALL BE STORED IN ACCORDANCE WITH MANUFACTURER INSTRICTIONS
- INSTRUCTIONS.
  6.J. ALL ELECTRICAL EQUIPMENT CONTAINING A CIRCUIT BREAKER OR FUSE SHALL BE INSTALLED IN COMPLIANCE WITH NEC ARTICLE 240.24.
  6.K. CONTRACTOR SHALL FIELD VERIFY DESIGN COMPLEX WITH NEC 312.8 PRIOR TO INSTALLATION.
  6.L. ALL NEW ELECTRICAL EQUIPMENT INSTALLED INDOORS REQUIRES GFCI OUTLET TO BE INSTALLED UP UP UP TO A COMPLEX FOR UP COLUMENT.
- INSTALLED WITHIN 25' OF NEW EQUIPMENT.
- 7. <u>GROUNDING</u> 7.A. THE CONTRACTOR SHALL FURNISH AND INSTALL GROUNDING NECESSARY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- 8. TESTS 8.A. ALL TESTS SHALL BE PERFORMED BY TRAINED TECHNICIANS CERTIFIED TO DO THE PROCEDURES.

- a. ALL TESTS SHALL BE PERFORMED BY TRAINED TECHNICIANS CERTIFIED TO DO THE PROCEDURES.
  B. FINAL TESTS AND INSPECTIONS SHALL BE HELD IN THE PRESENCE OF THE OWNER'S REPRESENTATIVES AND TO THEIR SATISFACTION.
  C. ALL APPLICABLE TESTS SHALL BE PERFORMED IN ACCORDANCE WITH NETA/ANSI ATS-2021 STANDARDS AND PRACTICES.
  B. AL APPLICABLE TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
  E. ALL TESTS SHALL BE PERFORMED PRIOR TO ENERGIZATION.
  S.F. TESTING IS LIMITED TO NEW EQUIPMENT RELATED TO THIS PROJECT.
  G. IV CURVE TRACES OF STRINGS SHALL BE CENTRATED USING THE SOLMETRIC PV ANALYZER (OR EQUIVALENT DEVICE) AND SUBMITTED TO THE OWNER FOR APPROVAL. IF MLPE IS USED, MODULE TRACES ARE PERMITTED TO BE CENTRATED THROUGH THE INVERTER PORTAL. TESTING TO BE PERFORMED DURING APPROVED WEATHER CONDITIONS.
  B.H. OPEN-CIRCUIT VOLTAGE (VGO, MEASUREMENTS SHALL BE PERFORMED ON ALL DC STRING CIRCUITS DURING APPROVED WEATHER CONDITIONS.
  ALL PV CONNECTORS MATED TOGETHER SHALL BE CONFIRMED TO BE OF THE SAME MAKE/MODEL.
  B.J. INSULATION TESTS SHALL BE PERFORMED ON ALL STRING AND FEEDER AC CIRCUIT CABLES.
  K.K. INSULATION TESTS SHALL BE PERFORMED ON ALL STRING AND FEEDER AC CIRCUIT CABLES.
  B.K. RELAY PROTECTION SYSTEM FUNCTIONAL TESTS SHALL BE IN ACCORDANCE WITH THE MAKE/MODEL AND WITHIN THE OPERATIONAL INSTRUCTIONS (MEC 2305(C)).
  M. RELAY PROTECTION SYSTEM FUNCTIONAL TESTS SHALL BE IN ACCORDANCE WITH THE MAKE/MODEL AND WITHIN THE OPERATIONAL INTERV OF THIS PROJECT NOTED IN EOR DRAWING. TESTING SHALL BE PERFORMED ON ALL SERVICE AND FEEDER AC CIRCUIT CABLES.
  B.K. RELAY PROTECTION SYSTEM FUNCTIONAL TESTS SHALL BE IN ACCORDANCE WITH THE MAKE/MODEL AND WITH TO THE OPERATIONAL INTERY OF THIS PROJECT NOTED IN EOR DRAWING. TESTING SHALL BE PERFORMED ON ALL SERVICE AND ALL LOGIC FACILITATES THE NECESSARY OPERATIONAL BERAVIOR.
  M. ACCEPTANCE TESTING SHALL BE PERFORMED ON ALL COMBINER BOXES, PAN

#### GENERAL NOTES

- THE GENERAL NOTES APPLY TO ALL DRAWINGS UNDER THE CONTRACT. REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL NOTES.
   DRAWINGS ARE DIAGRAMS AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT OF WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM, SPACE CONDITIONS, AND REQUIRED CLEARANCES.
   PV SYSTEM CONTRACTOR SHALL COORDINATE ALL THE WORK WITH THE ENGINEER, THE CONSTRUCTION MANAGER AND ALL OTHER CONTRACTORS TO INSURE THAT THE PV SYSTEM IS INSTALLED AS SPECIFIED IN THESE DRAWINGS.
- PERSONAL PROTECTIVE EQUIPMENT (PPE) SHALL BE PROVIDED AS REQUIRED IN ACCORDANCE WITH NFPA 70E AND OSHA REQUIREMENTS.
- WITH NEPA 70E AND USHA REQUIREMENTS. 5. ALL STRUCTURAL AND MISCELLANEOUS EXTERIOR STEEL, INCLUDING STRUT CHANNEL (SUCH AS UNISTRUT OR KINDORF) SHALL BE CORROSION RESISTANT, HOT DIP GALVANIZED OR GALVANNEALED WITH A COATED FINISH MINIMUM.

	LEGEND – GENERAL
SYMBOL	DESCRIPTION
	LIGHT LINE INDICATES EXISTING OR BEYOND THE SCOPE OF PROJECT
	DARK LINE INDICATES NEW OR WITHIN THE SCOPE OF PROJECT
	DASHED LINE INDICATES EQUIPMENT AT A DIFFERENT ELEVATION
EXISTING TEXT	LIGHT TEXT INDICATES EXISTING OR BEYOND THE SCOPE OF PROJECT
NEW TEXT	DARK TEXT INDICATES NEW OR WITHIN THE SCOPE OF PROJECT

	LEGEND – CIRCUITS
SYMBOL	DESCRIPTION
—xx——xx—	ABOVE-GROUND CABLE
	UNDER-GROUND CABLE
NOTE: XX REPRESENTS CIRC	CUIT TYPE BELOW
ABBREVIATION	DESCRIPTION
DC	DIRECT CURRENT
AC	ALTERNATING CURRENT
MV	MEDIUM VOLTAGE
С	COMMUNICATIONS
GND	GROUND
CAB	CAB MESSENGER
MES	MESSENGER WIRE
FO	FIBER OPTIC

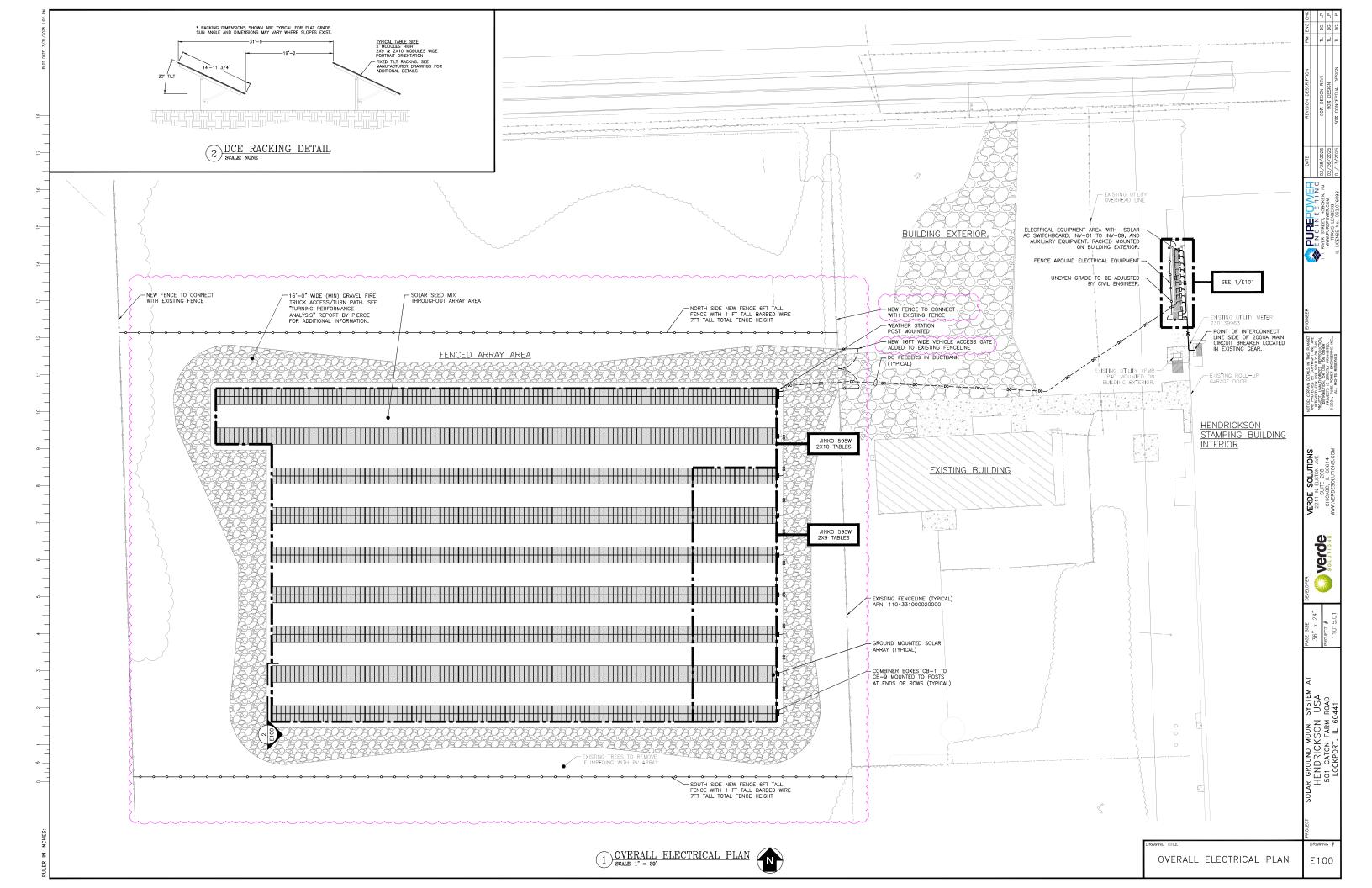
	<u>LEGEND – PLAN SYMBOLS</u>
SYMBOL	DESCRIPTION
o	RACEWAY TURNING UP OR TOWARDS OBSERVER
<del></del> ө	RACEWAY TURNING DOWN OR AWAY FROM OBSERVER
J OR J	JUNCTION BOX
φ	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE, RATED: 125-VOLTS AC, 20A
٠	GROUND ROD
۲	GROUND ROD W/ TEST WELL
	SLOPE DIRECTION INDICATOR

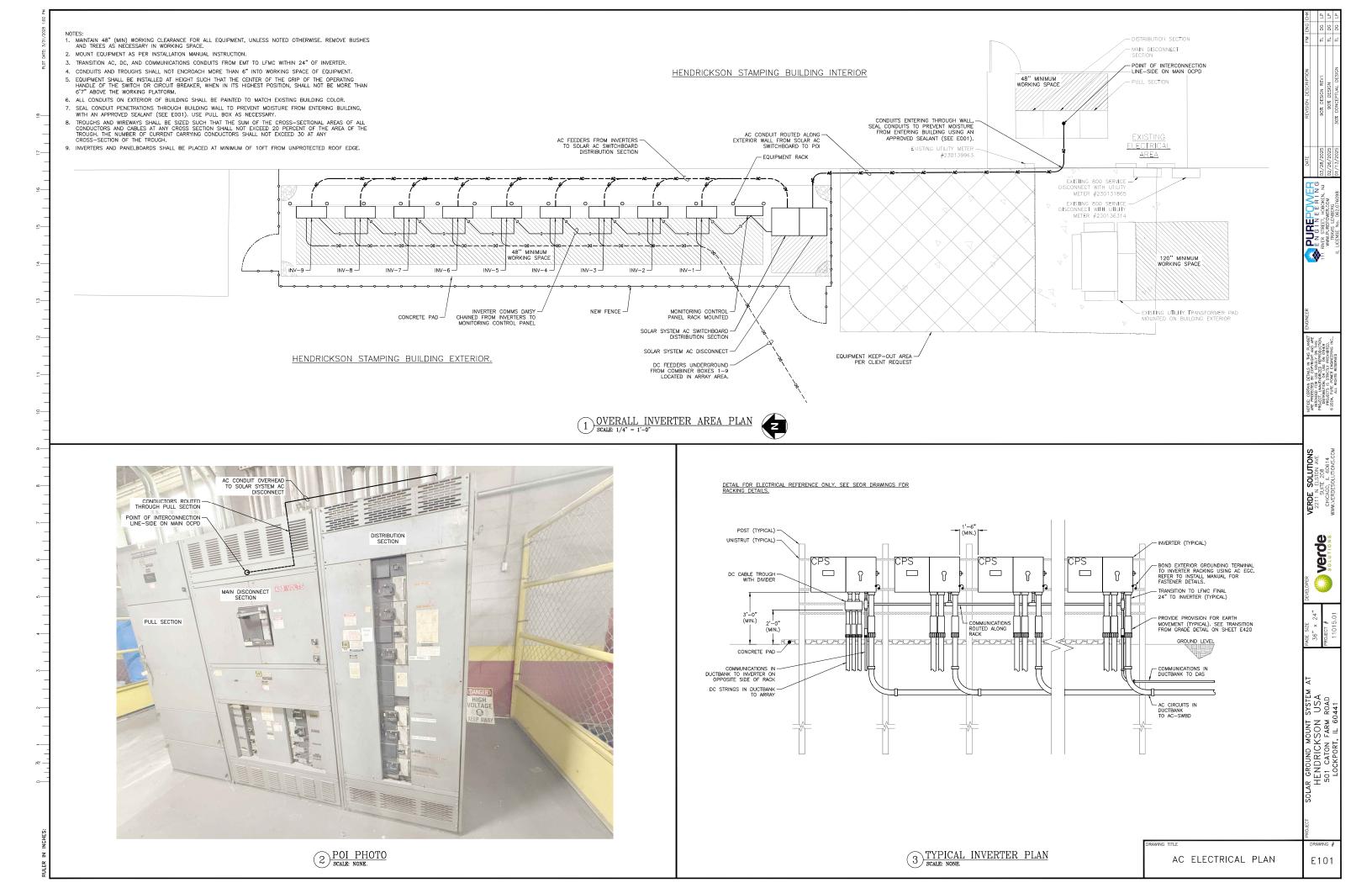
	LEGEND - ONE LINE DIAGRAM & WIRING DIAGRAM SYMBOLS
SYMBOL	DESCRIPTION
Ļ	CIRCUIT BREAKER, FRAME SIZE AND TRIP SETTING AS NOTED
~	DISCONNECT SWITCH
$\sim$	INVERTER
+	BUSS CONNECTION POINT
$\rightarrow \frac{1}{1}$	CROSSING POINT (NO CONNECTION)
¥ +	NORMALLY CLOSED - NORMALLY OPEN CONTACTS
щ	TRANSFORMER CONTROL/POWER, SIZE AND RATING AS NOTED
₽	CURRENT TRANSFORMER
ЗF	POTENTIAL TRANSFORMER
	FUSE, SIZE/RATING AS NOTED
⊸∕∽⊡-	FUSED DISCONNECT SWITCH
Ŧ	EARTH GROUND
+ +	BATTERY
K	KEYED INTERLOCK (KIRK KEY OR EQ.)
67 C)	SHUNT TRIP COIL; MOTORIZED CLOSE
8	SURGE ARRESTOR
$\bigotimes$	METER
N	NEUTRAL BUS
G	GROUND BAR

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& SYMBOLS LIST

E001





STRING           STRING NAME         PODULES PER STRING           1-1         24           1-2         24           1-3         24           1-4         24           1-5         24           1-6         24           1-7         24           1-7         24           1-7         24           1-9         24           1-9         24           2-1         24           2-2         24           2-3         24           2-5         24           2-5         24           2-6         24           2-7         24           2-7         24           2-7         24           2-7         24           2-7         24           2-7         24           2-7         24           2-9         24	8-5       24         8-6       24         8-7       24         8-8       24         9-1       24         9-2       24         9-3       24         9-5       24         9-6       24         9-7       24         9-8       24         9-9       24				MAXIMUM NUMBER (WITH ALLOWANCE FOR AN CONDUIT TRADE SIZE 3/4" 1.5" 2.5" 2.5" 3" 3.5" 4" TABLE ASSUMING: ANY CONDUIT TYPE AND CU # PV SOURCE CIRCUIT (SIMULATED) WITH 17.15A OL STRING WIRING NOTE:		PUREPOWER         Date         Revision Description         PM End         CHK           Res STELT. Hold N. E         R. H. R. STELT. Hold N. M.         03/28/2025         90% DESIGN RV1         11         00         LP           WM.R.J. Ref Stell N. B         03/28/2025         90% DESIGN RV1         11         00         LP           WM.R.J. Ref Stell N. B         02/28/2025         90% DESIGN RV1         11         00         LP           ULENSE No. 060/06088         01/13/2025         30% CORCEPTUAL DESIGN         11         00         LP
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		-1-5(24) -1-5(24) -1-6(24) -1-6(24) -1-7(24) -1-7(24)		• • • • • • • • • • • • • • • • • • •	1-1/(24) 1-10(24)	-	
$\begin{array}{c cccc} 3-8 & 24 \\ \hline 3-9 & 24 \\ \hline 4-1 & 24 \\ \hline 4-2 & 24 \\ \hline 4-3 & 24 \\ \hline 4-4 & 24 \\ \hline 4-5 & 24 \\ \hline \end{array}$	•			• • 2-2(24) • • • •	CB-2		ALS IN THIS PLANSET BOOL THIS ADARSET SORIEX AND THIS ADARSET SORIEX AND THIS ADARSET TO PROPOUND A THIS ADARSET ADARSET REPORTED ADARSET ADAR
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			• • • • · · · · · · · · · · · · · · · ·	•         3-2(24)         •         •           •         -         -         -         •           -         -         -         -         •	CB-3		MOTICE: CERAM VETA ARE FROTETO DF ARE FROTETO US INEXADE TOR USE PROJECT: UNAVINABI DESTRELITION, OR DESTRELITION, OR DESTRELITION, OR DESTRETORY, ALL ROHTS
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			• • • • • • • • • • • • • • • • • • •		CB-4		<b>SOLUTIONS</b> IN ELSTON AVE BUTTE 208 600, 1L 60614 DESOLUTIONS.COM
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		5-5(24) 5-4(24) 5-4(24) 5-4(24) 5-6(24)	• • • • 5-7(24)	•         -         -         -         •         •           •         -         -         -         -         •         •           •         -         -         -         -         •         •         •	CB-5		VERDE 2211 2211 MUNIVER
$ \begin{array}{c cccc} 6-7 & 24 \\ \hline 6-8 & 24 \\ \hline 6-9 & 24 \\ \hline 7-1 & 24 \\ \hline 7-2 & 24 \\ \hline 7-3 & 24 \\ \end{array} $					CB-6		DEVELOPER
$\begin{array}{c cccc} 7-4 & 24 \\ \hline 7-5 & 24 \\ \hline 7-6 & 24 \\ \hline 7-7 & 24 \\ \hline 7-8 & 24 \\ \hline 7-9 & 24 \\ \hline 8-1 & 24 \\ \end{array}$		7-5(24) 7-6(24) 7-6(24) 7-6(24)	• • • 7-3(24) • • •	•         •	CB-7		PAGE SIZE 36" × 24' PROJECT # 11015.01
8-2         24           8-3         24           8-4         24		8-5(24) 	• • • 8-7(24) • •	•         -	CB-8		UNT SYSTEM AT ON USA ARM ROAD L 60441
		9-5(24) 	9-7(24)	9-2(24) 	св-9 9-1(24) 9-9(24)		SOLAR GROUND MOUNT SYSTEM HENDRICKSON USA 501 CATON FARM ROAD LOCKPORT, IL 60441
2		IMPORTANT CONTRACTOR MUST REDLINE DRAWINGS TO REFLECT EXACT AS-BUILT STRINGING AND RETURN TO PURE POWER.	$1 \frac{\text{DC ELECTRICAL PLAN}}{\text{scale: 1' = 20'}} $		RING LABEL KEY String # Inverter #	DRAWING TITLE DC ELECTRICAL PLAN	B DRAWING # E200

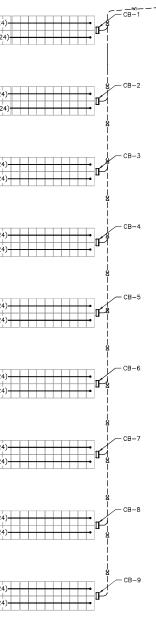


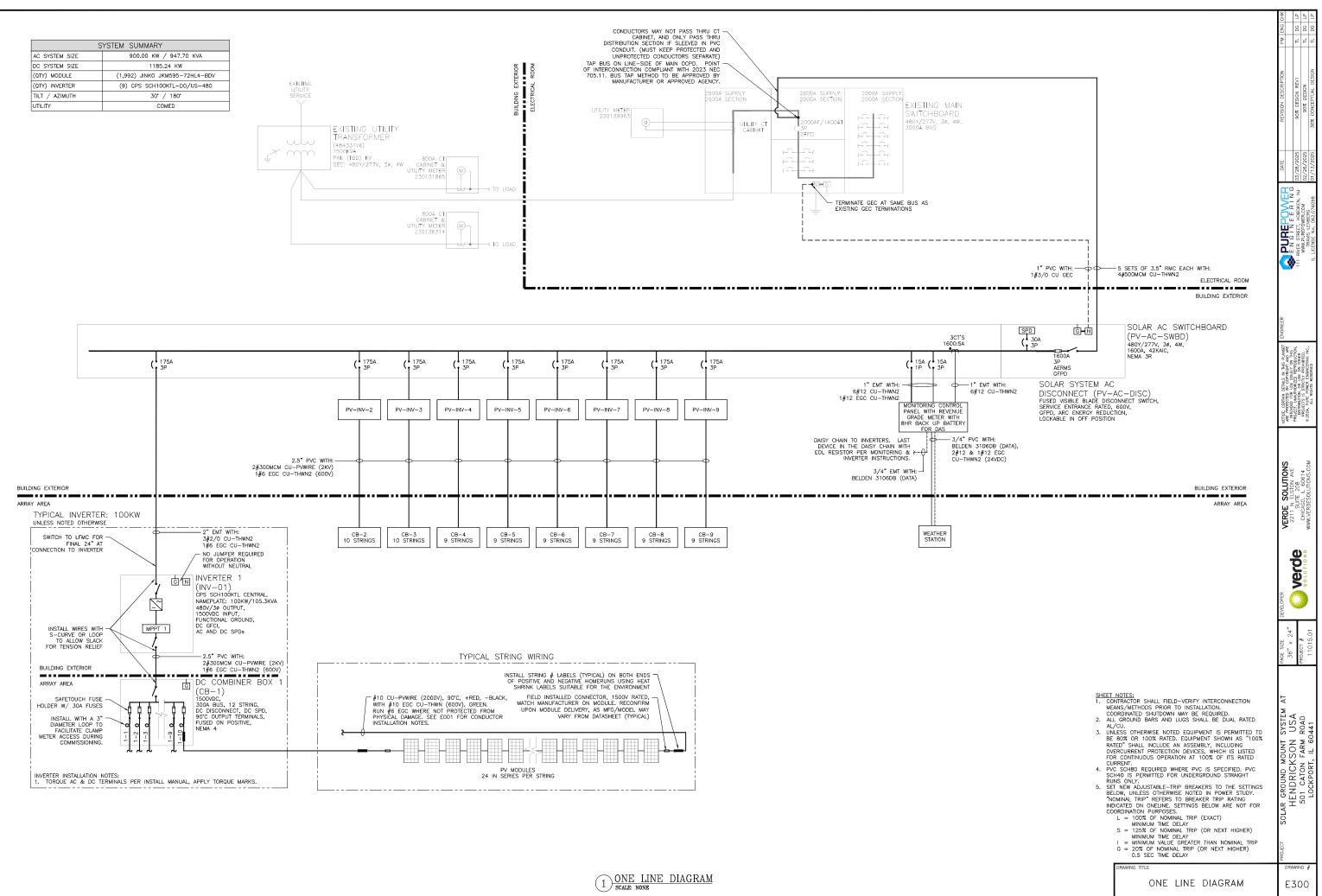




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> ULER - CB-2





(1)	ONE	LINE	DIAGRAM
U	SCALE: N	IONE	

							AC	CIRCUIT CAI	CULATIONS											
EQUIPMENT SUPPLIED	FED FROM	VOLTAGE	FULL LOAD AMPS (FLA)	FLA x 1.25	OCPD SIZE [A]	CONDUIT TYPE	CONDUIT	CONDUCTORS PER PHASE	PHASE CONDUCTOR SIZE	NEUTRAL CONDUCTOR SIZE	GROUND CONDUCTOR SIZE	75" AMPACITY	90' AMPACITY	90* AMPACITY WITH C.O.U.	CABLE TRAY AMPACITY WITH C.O.U	C.O.U DERATE AMBIENT TEMP	C.O.U. DERATE CONDUIT FILL	FEEDER LENGTH (ONE-WAY) [FT]	SEGMENT VOLTAGE DROP AT FLA	TOTAL VOLTA
SOLAR SYSTEM AC DISCONNECT SWITCH	POINT OF INTERCONNECTION	480	1140.3	1425	1600	RMC	3.5"	5	CU 500MCM	CU 500MCM	CU #3/0 GEC	1900	2150	2150	N/A	1.00	1.00	75	0.18%	0.18%
SOLAR AC SWITCHBOARD	SOLAR SYSTEM AC DISCONNECT SWITCH	480	1140.3	1425	1600	BUS	N/A	N/A	1600A BUS	1600A BUS	BUS	1600	1600	1600	N/A	1.00	1.00	10	0.00%	0.18%
INVERTER 1	SOLAR AC SWITCHBOARD	480	126.7	158	175	PVC	2"	1	CU #2/0	NONE	CU #6	175	195	195	N/A	1.00	1.00	15	0.07%	0.25%
INVERTER 2	SOLAR AC SWITCHBOARD	480	126.7	158	175	PVC	2"	1	CU #2/0	NONE	CU #6	175	195	195	N/A	1.00	1.00	20	0.09%	0.27%
INVERTER 3	SOLAR AC SWITCHBOARD	480	126.7	158	175	PVC	2"	1	CU #2/0	NONE	CU #6	175	195	195	N/A	1.00	1.00	25	0.11%	0.29%
INVERTER 4	SOLAR AC SWITCHBOARD	480	126.7	158	175	PVC	2"	1	CU #2/0	NONE	CU #6	175	195	195	N/A	1.00	1.00	30	0.14%	0.32%
INVERTER 5	SOLAR AC SWITCHBOARD	480	126.7	158	175	PVC	2"	1	CU #2/0	NONE	CU #6	175	195	195	N/A	1.00	1.00	35	0.16%	0.34%
INVERTER 6	SOLAR AC SWITCHBOARD	480	126.7	158	175	PVC	2"	1	CU #2/0	NONE	CU #6	175	195	195	N/A	1.00	1.00	40	0.18%	0.36%
INVERTER 7	SOLAR AC SWITCHBOARD	480	126.7	158	175	PVC	2"	1	CU #2/0	NONE	CU #6	175	195	195	N/A	1.00	1.00	45	0.21%	0.38%
INVERTER 8	SOLAR AC SWITCHBOARD	480	126.7	158	175	PVC	2"	1	CU #2/0	NONE	CU #6	175	195	195	N/A	1.00	1.00	50	0.23%	0.41%
INVERTER 9	SOLAR AC SWITCHBOARD	480	126.7	158	175	PVC	2"	1	CU #2/0	NONE	CU #6	175	195	195	N/A	1.00	1.00	55	0.25%	0.43%
						PV DC	FEEDER	CALCULATIO	NS											

COMBINER BOX	CABLE MANAGEMENT	QTY OF STRINGS	OPERATING VOLTAGE Vmp [V]	STRING MAXIMUM CURRENT (SAM SIMULATED Imax) [A]	FEEDER MAX CURRENT (Imax) [A]	FEEDER CONTINUOUS CURRENT (Imax x 1.25) [A]	OCPD SIZE [A]	CONDUIT TYPE	CONDUIT SIZE	CONDUCTORS PER POLE	CONDUCTOR SIZE	GROUND SIZE	75* AMPACITY	90* AMPACITY	90° AMPACITY WITH C.O.U. ADJUSTME NT	CABLE TRAY AMPACITY WITH C.O.U.	C.O.U DERATE FOR AMBIENT TEMPERATURE	C.O.U. DERATE FOR NUMBER OF CURRENT CARRYING CONDUCTORS	STRING OPERATING CURRENT (STRING Imp) [A]	FEEDER OPERATING CURRENT [A]	FEEDER LENGTH (ONE WAY) [FT]	VOLTA
CB-1	CONDUIT	10	1063	17.15	172	214	225	PVC	2.5"	1	AL 300MCM	CU #4	230	260	260	N/A	1	1	13.43	134	360	0
CB-2	CONDUIT	10	1063	17.15	172	214	225	PVC	2.5"	1	AL 300MCM	CU #4	230	260	260	N/A	1	1	13.43	134	368	(
CB-3	CONDUIT	9	1063	17.15	154	193	225	PVC	2.5"	1	AL 300MCM	CU #6	230	260	260	N/A	1	1	13.43	121	405	
CB-4	CONDUIT	9	1063	17.15	154	193	225	PVC	2.5"	1	AL 300MCM	CU #6	230	260	260	N/A	1	1	13.43	121	442	(
CB-5	CONDUIT	9	1063	17.15	154	193	225	PVC	2.5"	1	AL 300MCM	CU #6	230	260	260	N/A	1	1	13.43	121	480	
CB-6	CONDUIT	9	1063	17.15	154	193	225	PVC	2.5"	1	AL 300MCM	CU #6	230	260	260	N/A	1	1	13.43	121	519	
CB-7	CONDUIT	9	1063	17.15	154	193	225	PVC	2.5"	1	AL 300MCM	CU #6	230	260	260	N/A	1	1	13.43	121	555	
CB-8	CONDUIT	9	1063	17.15	154	193	225	PVC	2.5"	1	AL 300MCM	CU #6	230	260	260	N/A	1	1	13.43	121	595	
CB-9	CONDUIT	9	1063	17.15	154	193	225	PVC	2.5"	1	AL 300MCM	CU #6	230	260	260	N/A	1	1	13.43	121	629	

SAM SIMULATE	ED VALUES	
MAXIMUM CURRENT [A]	17.15	Γ
MAXIMUM VOLTAGE [V]	1408.76	
THE STRING MAX CURRENT IS CAL MODEL SIMULATION PROGRAM P RENEWABLE ENERGY LABORATORY, PHOTOVOLTAIC ARRAY PERFORMAN NEC 690.8(A)(1)(2), THE CALCULAT VALUE USING 69	ROVIDED BY THE NATIONAL REFERENCE SAND 2004-3535, CE MODEL, AS ALLOWABLE BY TED CURRENT IS 97.1% OF THE	-

MODULE SPEC	IFICATIONS				
MAKE/MODEL	JKM595N-72HL4-BDV				
POWER [W]	595				
ISC [A]	14.13				
IMP [A]	13.43				
VOC [V]	53.10				
VMP [V]	44.31				
β VOC [%/degC]	-0.250%				
SITE CLIMATE CRITERIA (WE	EATHER STATION NAME)				
ASHRAE HIGH [℃]	29.9				
ASHRAE LOW [℃]	-23.5				
ELEVATION (m)	201				
STRING SPECIFICA	TIONS AT STC				
MODULES/STRING	24				
POWER [W]	14280				
STRING ISC [A]	14.13				
STRING IMP [A]	13.43				
STRING VMP [V]	1063.44				

INVERTERS 1	1-9	INV	ERTERS	1-5	INVE		6-9
STRING WIRE GAUGE	10AWG-CU	OTDUIO	TOTAL STRING	STRING	OTONIO	TOTAL STRING	STRING
C IMPEDANCE [OHM/KFT]	1.2900	STRING NUMBER	DISTANCE	VOLTAGE DROP	STRING NUMBER	DISTANCE	VOLTAGE DROP
PERATING VOLTAGE [VDC]	1063	/	[FT]			[FT]	1
OPERATING CURRENT	17.2	1-1	55	0.23%	6-1	55	0.23%
[AMP]		1-2	145	0.61%	6-2	145	0.61%
		1-3	235	0.98%	6-3	235	0.98%
		1-4	325	1.36%	6-4	325	1.36%
		1-5	415	1.73%	6-5	395	1.65%
		1-6	415	1.73%	6-6	325	1.36%
		1-7	325	1.36%	6-7	235	0.98%
		1-8	235	0.98%	6-8	145	0.61%
		1-9	145	0.61%	6-9	55	0.23%
		1-10	55	0.23%	7-1	55	0.23%
		2-1	50	0.21%	7-2	145	0.61%
		2-2	145	0.61%	7-3	235	0.98%
		2-3	235	0.98%	7-4	325	1.36%
		2-4	325	1.36%	7-5	395	1.65%
		2-5	415	1.73%	7-6	325	1.36%
		2-6	415	1.73%	7-7	235	0.98%
		2-7	325	1.36%	7-8	145	0.61%
		2-8	235	0.98%	7-9	55	0.23%
		2-9	145	0.61%	8-1	55	0.23%
		2-10	55	0.23%	8-2	145	0.61%
		3-1	55	0.23%	8-3	235	0.98%
		3-2	145	0.61%	8-4	325	1.36%
		3-3	235	0.98%	8-5	395	1.65%
		3-4	325	1.36%	8-6	325	1.36%
		3-5	395	1.65%	8-7	235	0.98%
		3-6	325	1.36%	8-8	145	0.61%
		3-7	235	0.98%	8-9	55	0.23%
		3-8	145	0.61%	9-1	50	0.21%
		3-9	55	0.23%	9-2	145	0.61%
		4-1	55	0.23%	9-3	235	0.98%
		4-2	145	0.61%	9-4	325	1.36%
		4-3	235	0.98%	9-5	395	1.65%
		4-4	325	1.36%	9-6	325	1.36%
		4-5	395	1.65%	9-7	235	0.98%
		4-6	325	1.36%	9-8	145	0.61%
		4-7	235	0.98%	9-9	50	0.21%
		4-8	145	0.61%	AVERAGE VC	LTAGE DROP	0.91%
		4-9	55	0.23%			
		5-1	55	0.23%			
		5-2	145	0.61%			
		5-3	235	0.98%			
		5-4	325	1.36%			
		5-5	395	1.65%			
		5-6	325	1.36%			
		5-7	235	0.98%			
		5-8	145	0.61%			
		L	1				

AVERAGE AC VOLTAGE DROP FROM POI TO INVERTERS: 0.34%

## FEEDER VOLTAGE DROP

1	_
0.6%	
0.7%	
0.7%	
0.7%	
0.8%	
0.8%	
0.9%	
1.0%	
1.0%	

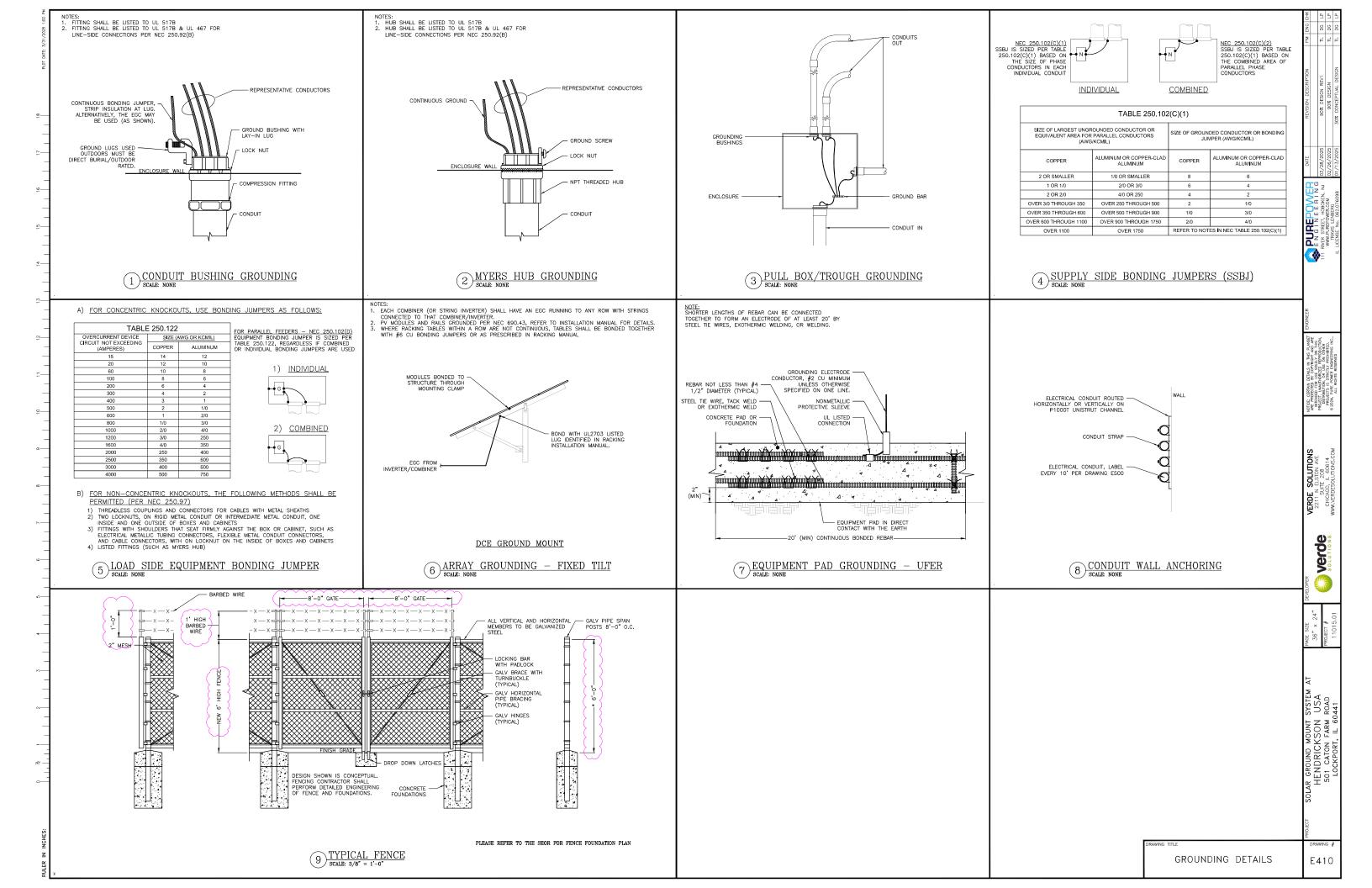
AVERAGE DC VOLTAGE DROP FROM COMBINER BOXES TO INVERTERS: 0.92%

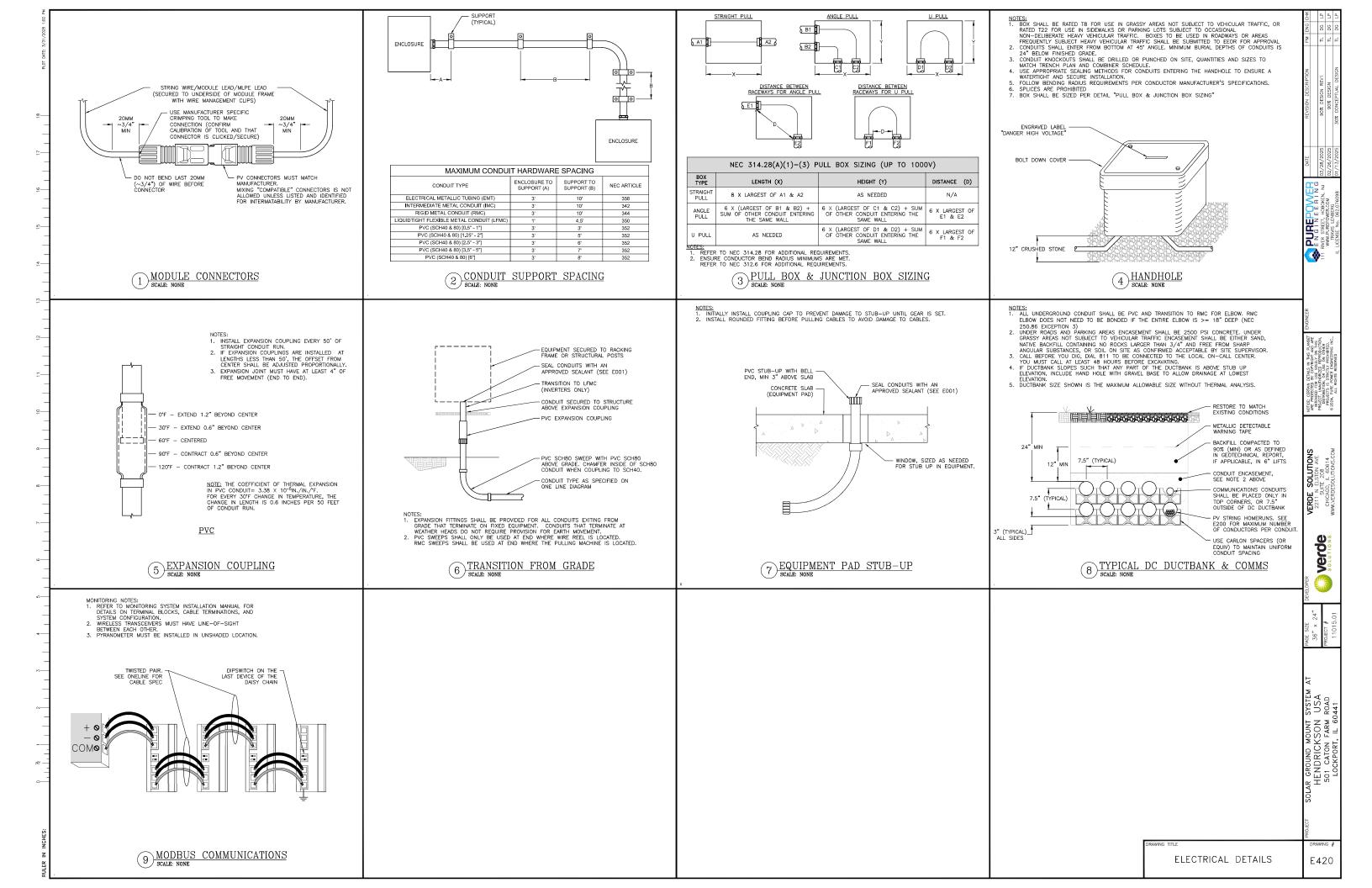
PROJECT	SOLAR GROUND MOUNT SYSTEM AT	PAGE SIZE	DEVELOPER		NOTICE: CERTAIN DETAILS IN THIS PLANSET ENG			DATE	REVISION DESCRIPTION	PM ENG CHK
DRA		36" × 24"		2211 N FISTON AVE	ARE PROTECTED BY COPYRICHT AND ARE INTENDED FOR USE SOLELY ON THIS					
WIN		11 - Data		SUITE 208	PROJECT. UNAUTHORIZED REPRODUCTION. DISTRIBUTION. OR USE ON OTHER	111 RIVER STREET, HOBOKEN, NJ	DKEN, NJ	03/28/2025	90% DESIGN REV1	TL DG LP
IG į	501 CALON FARM ROAD		SOLUTIONS	CHICAGO, IL 60614	PROJECTS IS STRICTLY PROHIBITED. © 2024 PURE POWER ENGINEERING INC.	WWW.PUREPOWER.COM		02/26/2025	90% DESIGN	TL DG LP
ÿ	LOCKPORT, IL 60441	11015.01		VERUESOLI	ALL RIGHTS RESERVED	IL LICENSE No. 062,076098	01/1	3/2025 3	30% CONCEPTUAL DESIGN	TL DG LP

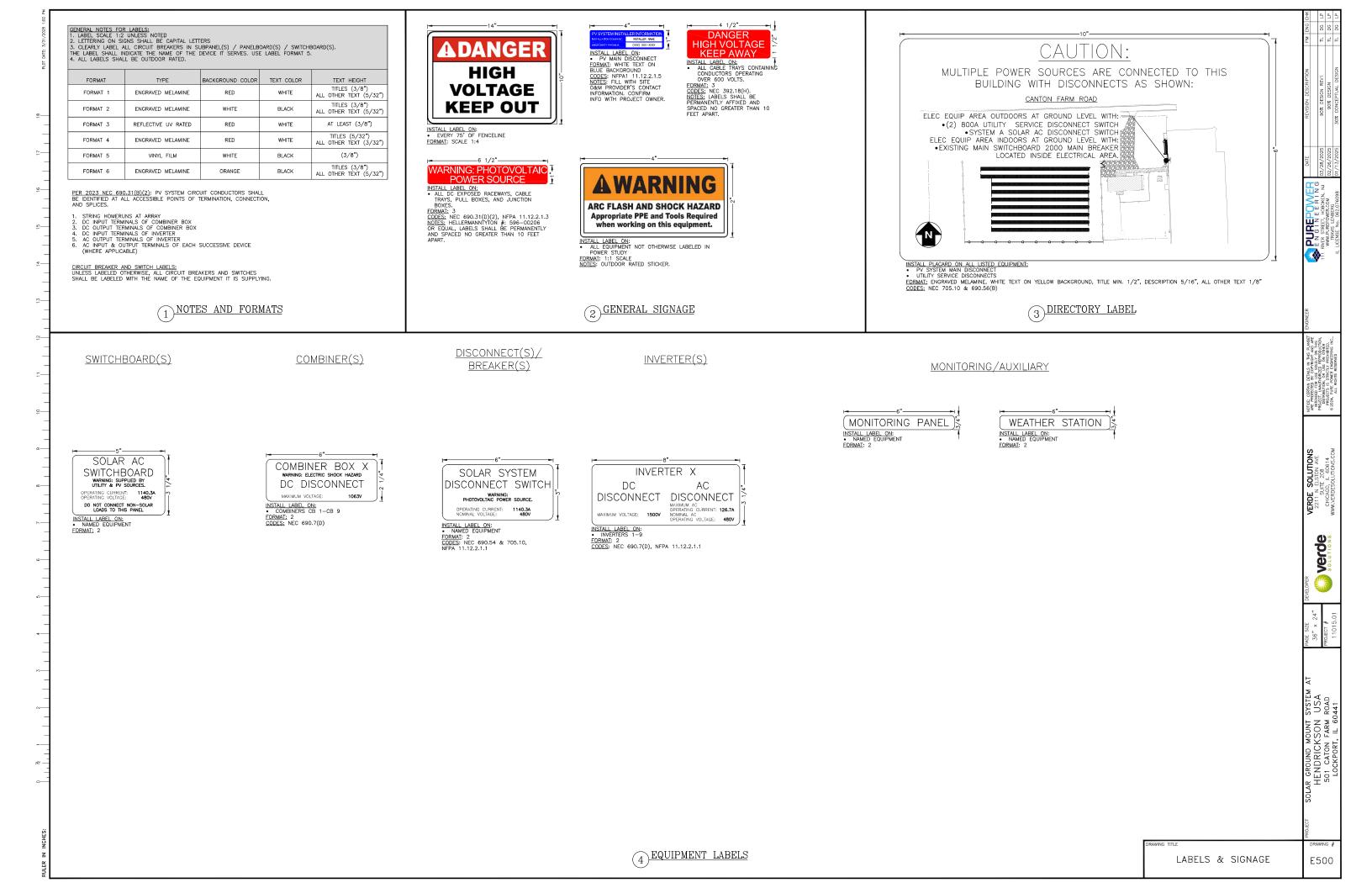
SHEET\_NOTES: 1. DISTANCES ARE ONE-WAY ESTIMATES GENERATED FOR ENGINEER'S CALCULATIONS, CONTRACTOR IS RESPONSIBLE FOR OWN MEASUREMENTS AND TAKEOFFS.

DRAWING TITLE

SCHEDULES & CALCULATIONS E310









ER IN INCHES:





The CPS FlexOM Meter offers a revenue-grade metering solution for CPS 25, 36, 50, 60, 100, and 125 kW inverters. The FlexOM meter solution includes a FlexOM Gateway and revenue-grade meter integrated into a NEMA 4 enclosure. FlexOM Portal Bundles are offered by CPS with web portal data access to features such as data charting, monitoring alerts, kiosk view, and more!

#### **Key Features**

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Di Galeney an Low-cost, complete hardware and software package Includes revenue-grade site-level meter (CTs not supplied, and must have output voltage of 0.333Vac at full scale) Full access to inverter data (15+ parameters per inverter) 1- to 20-minute interval data (download up to 5 years of site data) 5 years of monitoring included (extensions available) Automated site commissioning report ---- Up to 32 devices per Flex Gateway (no additional fees for each inverter connection) Site activation with "CPS Connect Pro" app (iOS and Android) 
 Image: 1
 Image: 2

 Image: 2
 Image: 2
 Inverter on/off, remote arc-fault reset, PF and active power curtailment controls capability Remote CT reversal capability

CHINT POWER SYSTEMS AMERICA 2024/8-MKT



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

The CPS FlexOM Meter offers a revenue-grade metering solution for CPS 25, 36, 50, 60, 100, and 125 kW inverters. The FlexOM meter solution includes a FlexOM Gateway and revenue-grade meter integrated into a NEMA 4 enclosure. FlexOM Portal Bundles are offered by CPS with web portal data access to features such as data charting, monitoring alerts, kiosk view, and more!

#### **Key Features**

- Low-cost, complete hardware and software package
- Includes revenue-grade site-level meter (CTs not supplied, and must have output voltage of 0.333Vac at full scale)
- Full access to inverter data (15+ parameters per inverter)
- 1- to 20-minute interval data (download up to 5 years of site data)
- 5 years of monitoring included (extensions available)
- Automated site commissioning report
- Up to 32 devices per Flex Gateway (no additional fees for each inverter connection)
- Site activation with "CPS Connect Pro" app (iOS and Android)
- Inverter on/off, remote arc-fault reset, PF and active power curtailment controls capability
- Remote CT reversal capability

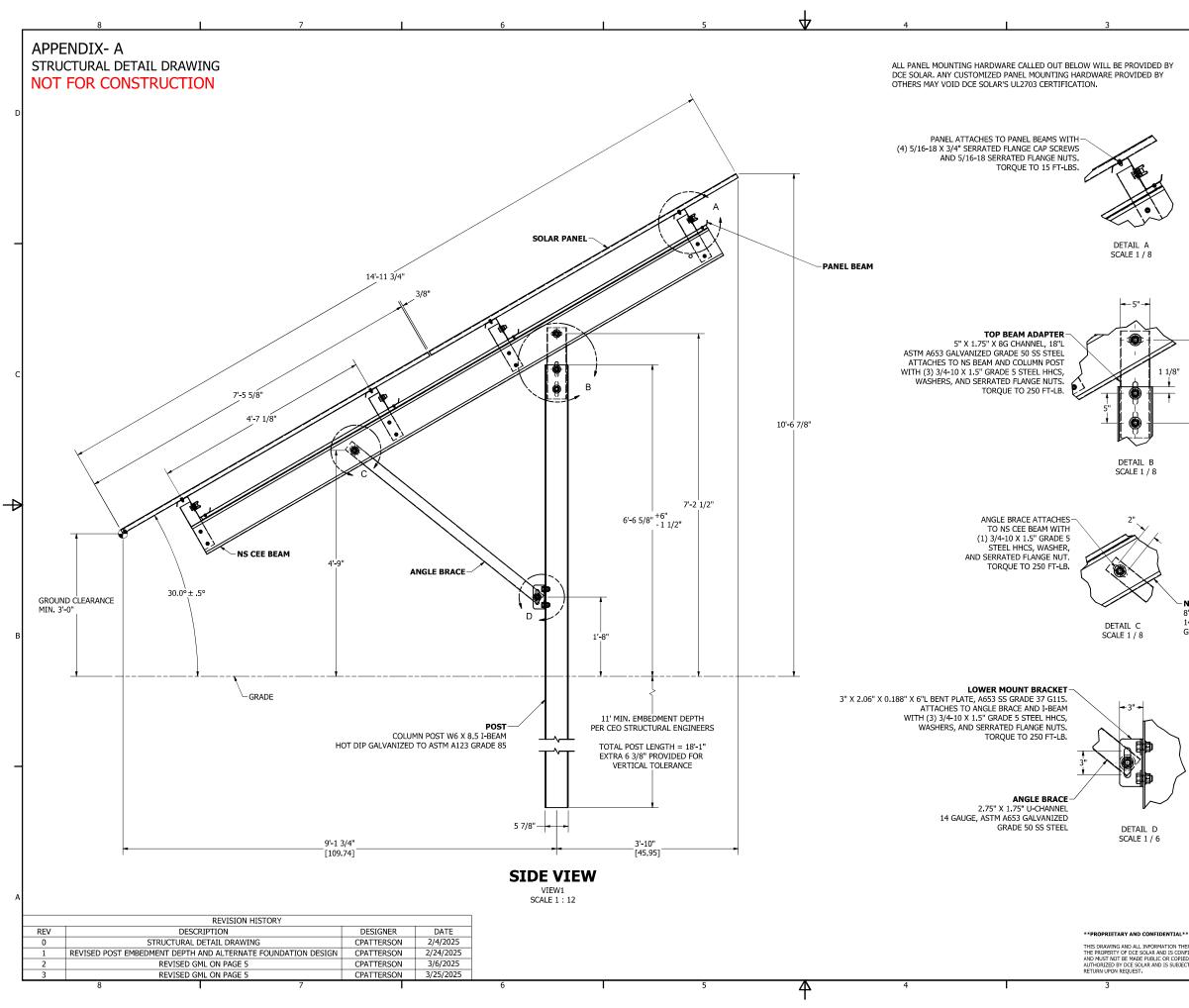
CHINT POWER SYSTEMS AMERICA 2024/8-MKT

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Chint Power 1380 Presidential Drive, Suite 100, Rich Tel: 855-584-7168 Mail: AmericaSales@chintpower.com Web: www.chintpo

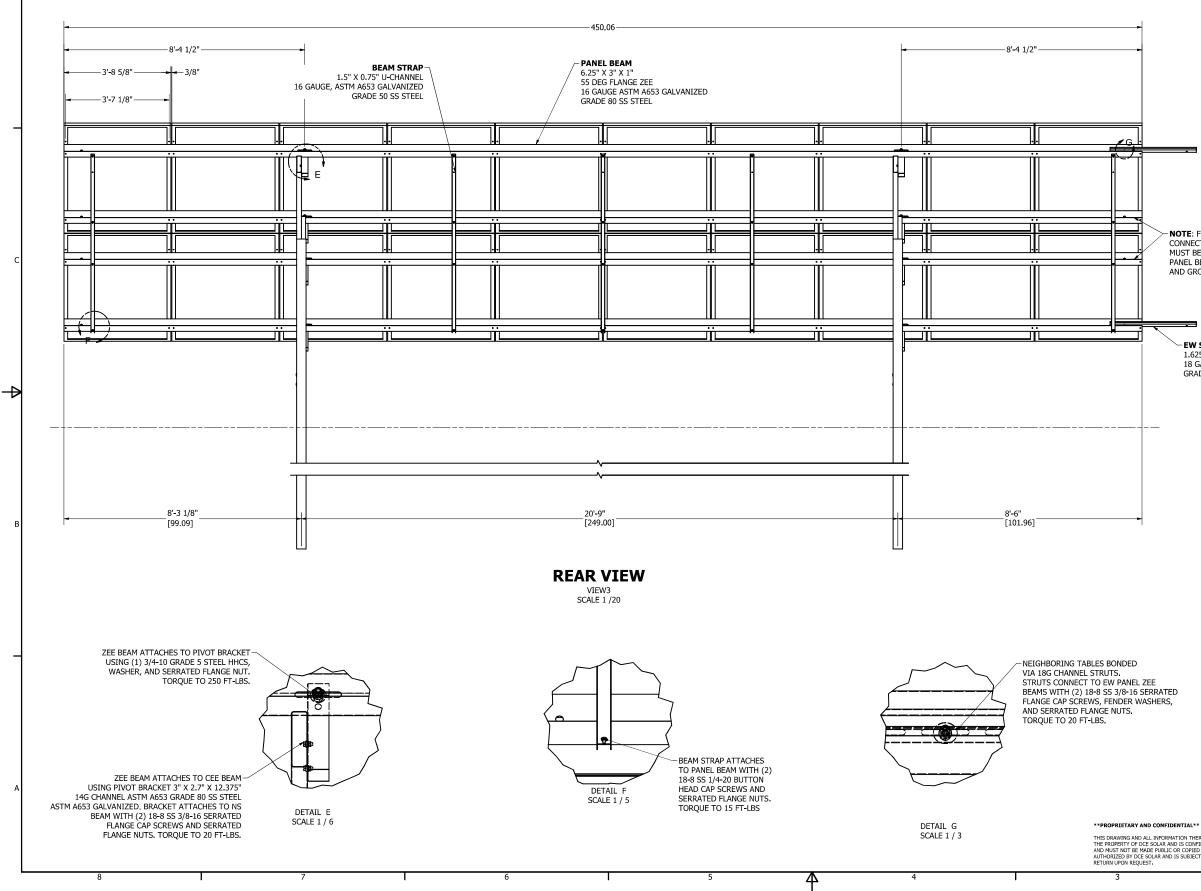
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	DATE	03/28/2025	02/26/2025	01/13/2025
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	ENGINEER			
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	NOTICE: CERTAIN DETAILS IN THIS PLANSET ARE PROTECTED BY COPYRICHT AND ARE	ZED REPRODU	PROJECTS IS STRICTLY PROHIBITED. © 2024. PURF POWER ENGINEERING INC.	RESERVED
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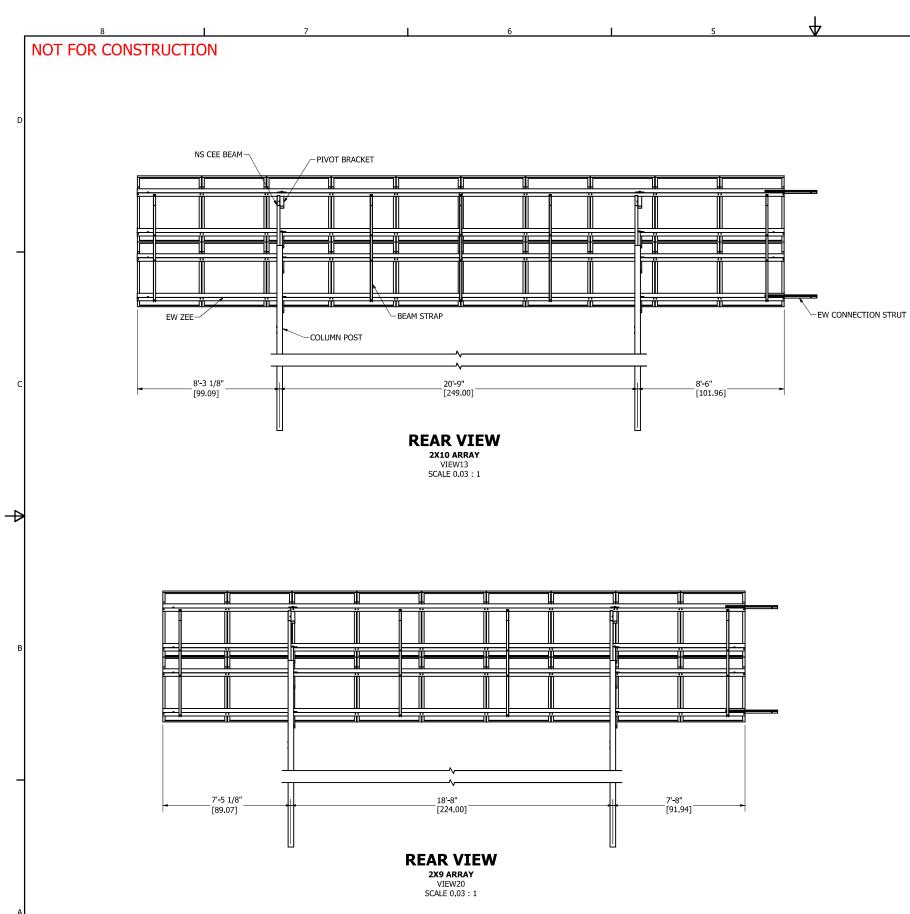
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			PROJECT INFORMATION INSTALLATION ADDRESS:	
			501 Caton Farm Rd, Lockport, IL 60441	
			Structural General Notes	
			<ol> <li>The contractor will be solely responsible for all construction means, methods, techniques, sequences and procedures and shall at all times</li> </ol>	
			take reasonable precautions for the safety of its employees on the	D
			project, and shall comply with all applicable provisions of federal, state,	
			and municipal safety laws and building construction codes.	
			<ol> <li>If existing conditions make it necessary to revise structural details, consult DCE Solar before proceeding with any change.</li> </ol>	
			<ol> <li>These drawings and notes are for this specific project and no other use is authorized.</li> </ol>	
			<ol> <li>Structure designed in accordance with the International Building Code, 2021 Edition, ASCE 7-16, AISC 360-16 (14th Edition), and AISI S100-16:</li> </ol>	
			ASD Snow Loads:	-
			-Ground Snow Load pg = 25 psf	
			-Importance Factor Is = 0.8	
			-Exposure Factor Ce = 0.9	
			-Slope Snow Load ps = 11.00 psf	
			Wind Loads:	
			MRI Factor = 1.00	
ł	-		-Basic Wind Speed V = 100 mph	
			-Iw = 1 -Exposure = C	
			-Wind Design performed in accordance with the requirements of ASCE -	с
1'-2	- -		Wind Tunnel Procedure. Refer to Wind Tunnel Report by UWO BLWT Laboratory dated 12/11/14.	
ļ			Seismic Loads:	
	-		-SS = 0.137g, $S1 = 0.069$ g	
			-Site Class = D -SDS = $0.150$ g, SD1 = $0.110$ g	
			-Seismic Design Category = A	
			-Ordinary Steel Cantilever Column System	
			5. Material strengths:	
			-Hot-rolled structural steel ASTM A992 GR50. -Cold Formed Steel Sections comply w/ASTM A1003, structural grade,	K
			galvanized to Grade as noted.	
			-Formed Steel Brackets - ASTM A653 Galvanized Grade 50 SS	
			-I-Beams - A992, 50 ksi, Hot Dip Galvanized to ASTM 123 Grade 85	
			-Plate - A36 Steel, Hot Dip Galvanized	
			-Connectors - Stainless Steel unless otherwise noted.	
IS BEA	м		<ol><li>Members and connections have been designed for worst-case loading associated with exterior zones of the array per the wind tunnel report.</li></ol>	
	( 0.6" E, ASTM A653 GALVANIZED 0 SS STEEL	C	<ol> <li>Foundation embedment depths are to be calculated and sealed by an IL State Licensed Geotechnical engineer.</li> </ol>	в
			<ol> <li>For the purposes of this project, all arrays are classified as Exterior Arrays.</li> </ol>	
			<ol> <li>Scope of work by Structural Engineer includes member design, connection design, and determination of design base reactions only.</li> </ol>	
			Layout of PV arrays such that they do not conflict with existing site	
			obstructions, determination of site-specific foundation and geotechnical	
			parameters, and all other work not specifically noted is by others.	
			Engineer of Record	
			<u> </u>	
		Mate	ial:	
	DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED	Weig		
	TOLERANCES ARE AS FOLLOWS: .X = ± 0.100" (2.54mm) .XX = ± 0.030" (0.76mm)		CT-LS-DB, JINKO JKM595-72HL4-BDV, 2x10, 30 DEG, iption: HENDRICKSON USA, FRESH COAST SOLAR	A
	.XXX = ± 0.010" (0.25mm)	Proje		
	ANGLE = $\pm$ 5° MIN. BREAK = 0.012" (0.3mm)	Draw		
•	SURFACE FINISH = 63 (US)	Scale		
RE IN IS		ourc	19410 Jetton Rd, Ste 220 Format: Part Number Rev:	
D UNLESS T TO			Cornelius, NC, 28031 www.dcesolar.com	
	Elevating the Future for Solar Made in America	<u>,</u>	Phone:1-704-659-7474	ļ
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# STRUCTURAL DETAIL DRAWING - REAR NOT FOR CONSTRUCTION

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		2	1 1
		TN	PROJECT INFORMATION STALLATION ADDRESS:
			1 Caton Farm Rd, Lockport, IL 60441
		Str	ructural General Notes
		me tak pro	The contractor will be solely responsible for all construction means, ethods, techniques, sequences and procedures and shall at all times er reasonable precautions for the safety of its employees on the oject, and shall comply with all applicable provisions of federal, state, d municipal safety laws and building construction codes.
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1		Sn -Gi -In -Ex	ow Loads: round Snow Load pg = 25 psf nportance Factor Is = 0.8 kposure Factor Ce = 0.9 ope Snow Load ps = 11.00 psf
CTIONS, BE PLACEI	ERNATE ARRAY STRUT CONNECTORS D ON 2ND & 3RD EW ER INSTALLATION MANUA	MF -Ba -Iv -Ex	nd Loads: RI Factor = 1.00 asic Wind Speed V = 100 mph v = 1 xposure = C find Design performed in accordance with the requirements of ASCE - C
	ER INSTALLATION MANUA IOUNT LAYOUT	L Wi Lal	nd Tunnel Procedure. Refer to Wind Tunnel Report by UWO BLWT boratory dated 12/11/14.
1		-55 -5i	ismic Loads: 5 = 0.137g, S1 = 0.069g te Class = D
25" X 1.6	<b>CONNECTOR</b> 25" U-CHANNEL ASTM A653 GALVANIZED	-Se	DS = 0.150g, SD1 = 0.110g eismic Design Category = A rdinary Steel Cantilever Column System
ADE 80 S	S STEEL	-H/ -Co	Material strengths: ot-rolled structural steel ASTM A992 GR50. old Formed Steel Sections comply w/ASTM A1003, structural grade, lvanized to Grade as noted.
		-Fo -I- -Pl	primed Steel Brackets - ASTM A653 Galvanized Grade 50 SS Beams - A992, 50 ksi, Hot Dip Galvanized to ASTM 123 Grade 85 ate - A36 Steel, Hot Dip Galvanized ponnectors - Stainless Steel unless otherwise noted,
			Members and connections have been designed for worst-case loading sociated with exterior zones of the array per the wind tunnel report.
			Foundation embedment depths are to be calculated and sealed by an State Licensed Geotechnical engineer.
			For the purposes of this project, all arrays are classified as Exterior rays.
		coi La <sup>,</sup> ob	Scope of work by Structural Engineer includes member design, nnection design, and determination of design base reactions only. yout of PV arrays such that they do not conflict with existing site structions, determination of site-specific foundation and geotechnical rameters, and all other work not specifically noted is by others.
		En	gineer of Record
-			
	DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED	Material:	
	TOLERANCES ARE AS FOLLOWS: $X = \pm 0.100^{\circ} (2.54 \text{mm})$	Weight:	2267.715 lbmass CT-LS-DB, JINKO JKM595-72HL4-BDV, 2x10, 30 DEG,
	$XX = \pm 0.030" (0.76mm)$ $XXX = \pm 0.010" (0.25mm)$ $XXX = \pm 5^{\circ}$	Description Project:	A HENDRICKSON USA, FRESH COAST SOLAR A HENDRICKSON USA
*	MIN. BREAK = 0.012" (0.3mm)	Drawn:	CPATTERSON Date: 3/6/2025
ERE IN IS	SURFACE FINISH = 63 (US)	Scale:	Sheet: 2 of 5 19410 Jetton Rd. Ste 220 Format: Part Number Rev:
D UNLESS			Cornelius, NC, 28031 vww.dcesolar.com
	Elevating the Future for Solar Made in America	2	Phone:1-704-659-7474 D 04-30 3



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	3		
	PANEL SP	ECIFICA	TIO
NAME		DESCR	IPTI
MANUFACTURER		JINKO S	SOL
MODEL		JKM595	5-72
LENGTH (mm)		2278	
WIDTH (mm)		1134	
THICKNESS (mm)		30	
	MATERIAL	DESCRI	PTIC
MEMBER	SHAPE		
PANEL BEAM	6.25Z3X1X55DEG		
NS CEE BEAM	8CS2X0.625		
KICKER BRACE	2.75CU1.75		
BEAM BRACE	1.5CU0.75		
POST	W6x8.5		
	PULL TI	EST LOA	DS
LOAD TYPE			UN
UPLIFT			550
ADJUSTED UPLIFT*			305
COMPRESSIVE LOAD			435
LATERAL LOAD			750
	N	OTES	
*ADJUSTED UPLIFT IS	ASSUMED AS 70% OF 1	THE DOV	WNV
USE THIS LOAD FOR P	ULL TEST IN CASE PUSH	H TEST (	CAN

USE THIS LOAD FOR PULL TEST IN CASE PUSH TEST CAN 1: USE ADJUSTED UPLIFT IF NO REFUSAL IS ENCOUNTER 2: USE UPLIFT FORCE IN CASE OF REFUSAL. 3: FOR UPLIFT AND LATERAL FORCES USE SAFETY FACTO USE 1

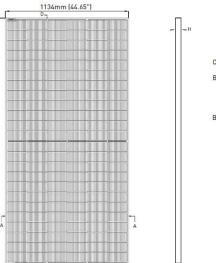
## ALTERNATE FOUNDATION

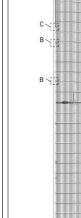
NAME	DI
POST TYPE	W
MIN. EMBEDMENT DEPTH (FT) IN CASE OF REFUSA	L 6'-
ALTERNATE FOUNDATION DESIGN - A	6'
DRILLED SHAFT DESIGN	SE
ALTERNATE FOUNDATION DESIGN - B	7'
SPREAD FOOTING DESIGN	SE
IN-FIFI D PILE REN	1EDI

ANY IN-FIELD REMEDIATION REQUIRING THE CUTTING MATERIAL SHOULD FOLLOW ONE OF THESE TWO GUIDE THAT ARE EXPOSED TO GALVANIZATION DAMAGE:

1. USE PAINTS CONTAINING ZINC DUST (IN ACCORDA SECTION A2)

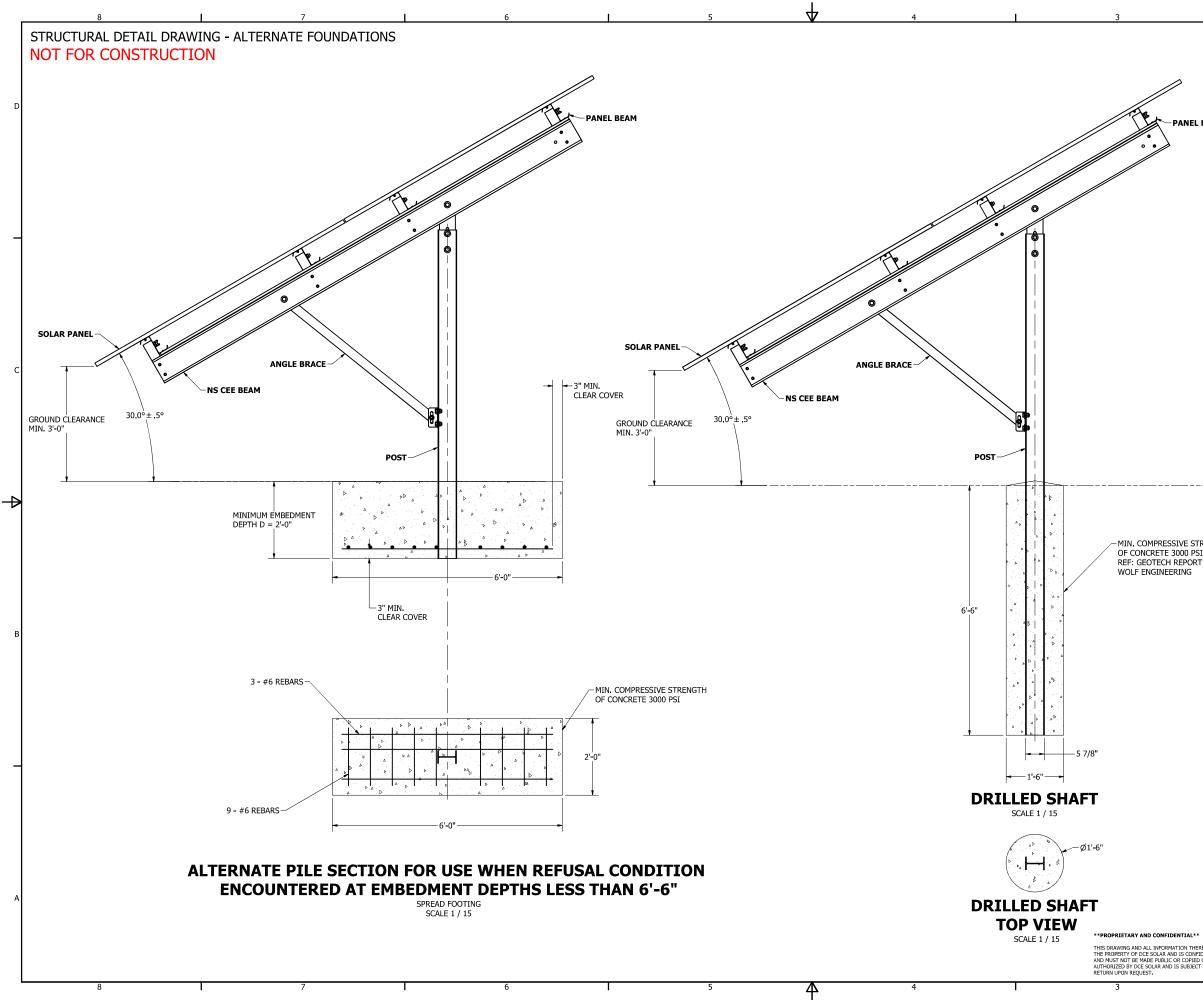
2. USE ZINC SPRAY (IN ACCORDANCE WITH "ASTM A 7 ABOVE GUIDELINES MUST BE FOLLOWED TO MAINTAIN T



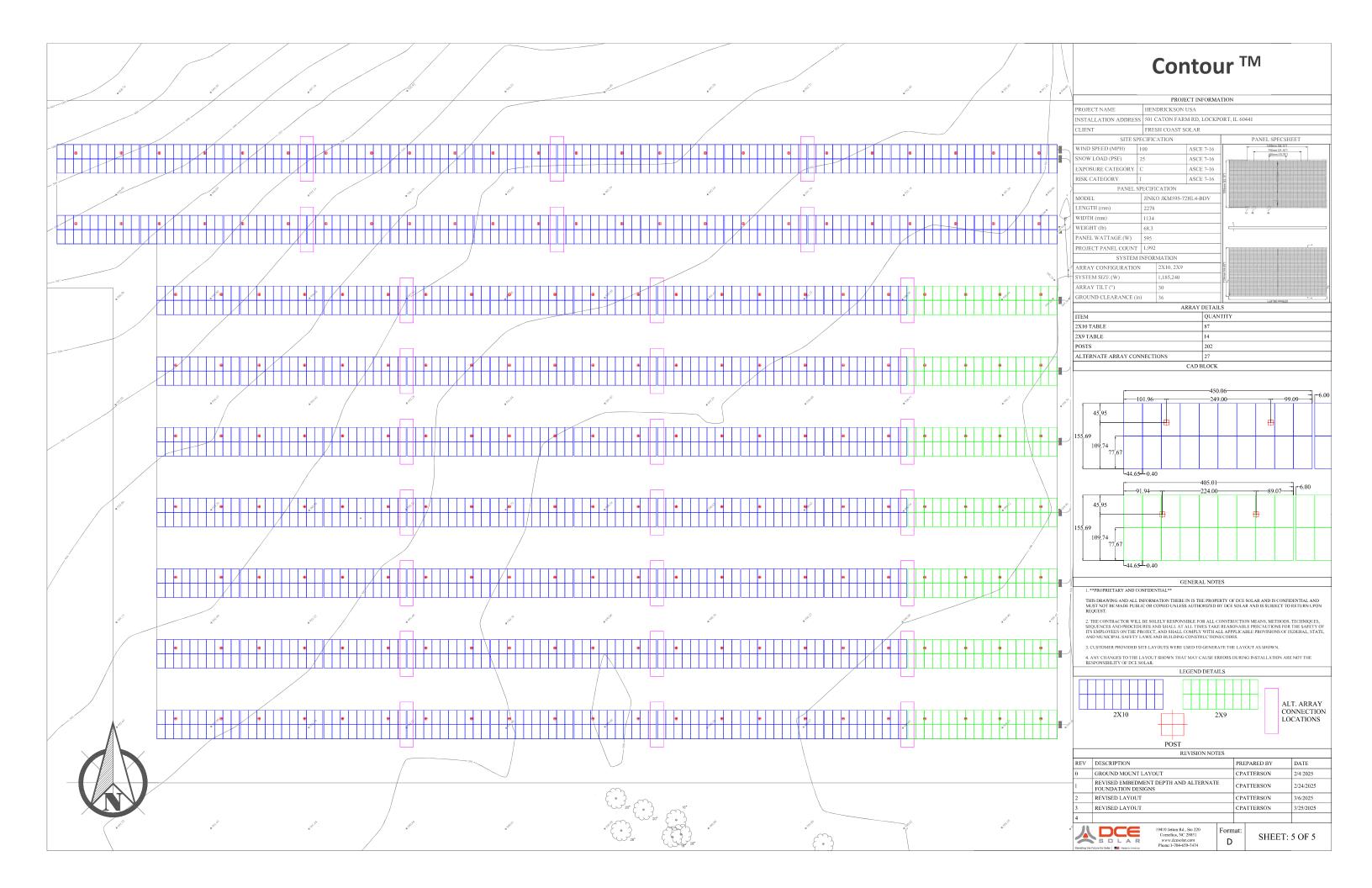


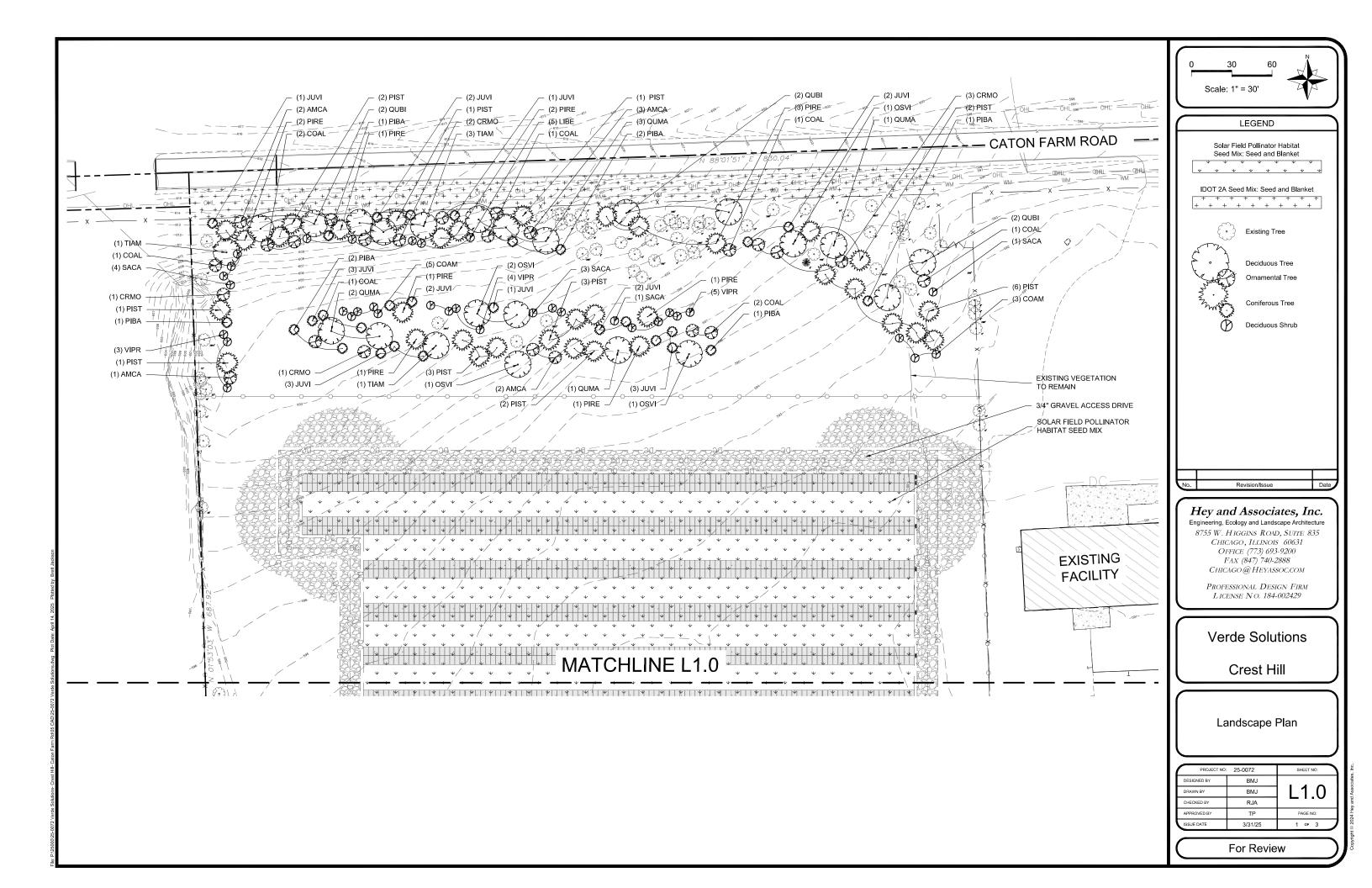
\*\*PROPRIETARY AND CONFIDENTIAL THIS DRAWING AND ALL INFORMATION THEY THE PROPERTY OF DCE SOLAR AND IS CONFI AND MUST NOT BE MADE PUBLIC OR COPIED AUTHORIZED BY DCE SOLAR AND IS SUBJECT RETURN UPON REQUEST.

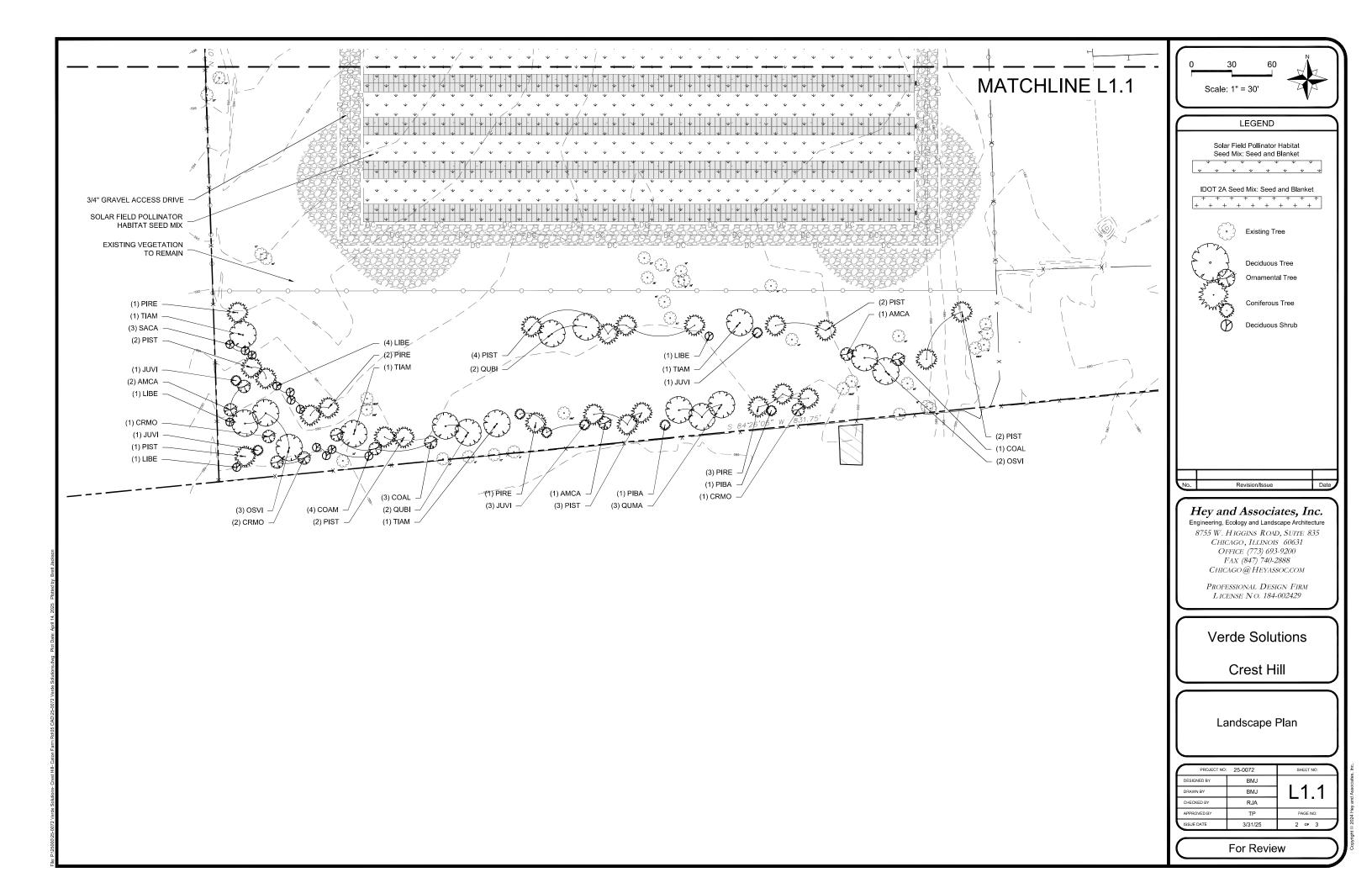
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N		PROJECT INFORMATION
ION		INSTALLATION ADDRESS:
		501 Caton Farm Rd, Lockport, IL 60441 Structural General Notes
2HL4-BDV		
		1. The contractor will be solely responsible for all construction means,
		methods, techniques, sequences and procedures and shall at all times
ON		take reasonable precautions for the safety of its employees on the
MATERIAL	GAGE	project, and shall comply with all applicable provisions of federal, state,
MATERIAL		and municipal safety laws and building construction codes.
A653 SS Gr80	16GA	
		2. If existing conditions make it necessary to revise structural details,
A653 SS Gr80	14GA	consult DCE Solar before proceeding with any change.
A653 SS Gr50	1404	
A653 55 GF50	14GA	<ol> <li>These drawings and notes are for this specific project and no other use is authorized.</li> </ol>
A653 SS Gr50	16GA	is authorized.
		4. Structure designed in accordance with the International Building Code,
A992	-	2021 Edition, ASCE 7-16, AISC 360-16 (14th Edition), and AISI S100-16:
		ASD
IFACTORED LOAD (LB)		Snow Loads:
0		-Ground Snow Load pg = 25 psf
50		-Importance Factor Is = 0.8
50		-Exposure Factor Ce = 0.9
0		-Slope Snow Load ps = 11.00 psf
WARD LOAD, IT'S REC		TO Wind Loads:
INOT BE PERFORMED		MRI Factor = 1.00
RED.		-Basic Wind Speed V = 100 mph
		-Iw = 1
DR OF 1.5 AND 2, RESI	PECTIVELY.	-Exposure = C
DESIGN		-Wind Design performed in accordance with the requirements of ASCE -
		Wind Tunnel Procedure. Refer to Wind Tunnel Report by UWO BLWT
SCRIPTION		Laboratory dated 12/11/14.
5x8.5 6"		Coismis Londou
6" MIN. DEPTH, 1'-6" [		Seismic Loads: -SS = 0.137g, S1 = 0.069g
E PAGE 4 FOR DETAIL		-55 = 0.137g, $51 = 0.009g-Site Class = D$
LONG X 2' WIDE X 2' T		-SDS = 0.150g, SD1 = 0.110g
E PAGE 4 FOR DETAIL		-Seismic Design Category = A
TION		-Ordinary Steel Cantilever Column System
OR DRILLING OF GALV	ANIZED	
LINES TO COAT AND 1	REAT META	5
		-Hot-rolled structural steel ASTM A992 GR50
NCE WITH "ASTM A 7	50-01	-Cold Formed Steel Sections comply w/ASTM A1003, structural grade, galvanized to Grade as noted.
780-01" SECTION A3)		-
THE DCE WARRANTY F		
		-Plate - A36 Steel, Hot Dip Galvanized
1096mm (43.15")		-Connectors - Stainless Steel unless otherwise noted
	TT.	
	TTT I	6. Members and connections have been designed for worst-case loading
		associated with exterior zones of the array per the wind tunnel report.
		7. Foundation embedment depths are to be calculated and sealed by an
		IL State Licensed Geotechnical engineer.
		8. For the purposes of this project, all arrays are classified as Exterior
		Arrays.
	400	1400
	790mm 400mm	9. Scope of work by Structural Engineer includes member design,
	790mm (31. 400mm (15.	connection design, and determination of design base reactions only.
	(31.10") (15.75")	obstructions, determination of site-specific foundation and geotechnical
		parameters, and all other work not specifically noted is by others.
	<u> </u>	Engineer of Record
	<u> </u>	
	_	
🕀 -	$\Box$	
DIMENSIONS AD	E IN INCHES	Material:
		Weight: 2267.715 lbmass
UNLESS OTHERV TOLERANCES ARE		CT-LS-DB, JINKO JKM595-72HL4-BDV, 2x10, 30 DEG,
UNLESS OTHERV TOLERANCES ARE		Description: HENDRICKSON USA, FRESH COAST SOLAR
UNLESS OTHERV TOLERANCES ARE .X = ± 0.100" .XX = ± 0.030'	(0.76mm)	
UNLESS OTHERV TOLERANCES ARE .X = ± 0.100"	(0.76mm)	
UNLESS OTHERW TOLERANCES ARE .X = ± 0.100" .XX = ± 0.030' .XXX = ± 0.010 ANGLE =	(0.76mm) " (0.25mm) ± 5°	Project: HENDRICKSON USA
UNLESS OTHERV TOLERANCES ARE $X = \pm 0.100^{\circ}$ $.XX = \pm 0.030^{\circ}$ $.XXX = \pm 0.010$	(0.76mm) " (0.25mm) ± 5°	Project: HENDRICKSON USA Drawn: CPATTERSON Date: 3/6/2025
UNLESS OTHER TOLERANCES ARE .X = ± 0.100" .XX = ± 0.030" .XX = ± 0.010 MIN. BREAK = 0. SURFACE FINIS	(0.76mm) " (0.25mm) ± 5° 012" (0.3mm)	
UNLESS OTHER TOLERANCES ARE .X = ± 0.100° .XX = ± 0.010 .XX = ± 0.010 MIN. BREAK = 0.0 SURFACE FINIS OENTIAL	(0.76mm) " (0.25mm) ± 5° 012" (0.3mm)	Drawn:         CPATTERSON         Date:         3/6/2025           Scale:         Sheet:         3 of 5           19410 Jetton Rd, Ste 220         Format:         Part Number         Rev:
UNLESS OTHER TOLERANCES ARE X = ± 0.100" XXX = ± 0.010 ANGLE = MIN. BREAK = 0.1 SURFACE FINISI DENTIAL UNLESS	(0.76mm) " (0.25mm) ± 5° 012" (0.3mm)	Drawn: CPATTERSON Date: 3/6/2025 Scale: Sheet: 3 of 5



I	:	2	1
			PROJECT INFORMATION INSTALLATION ADDRESS:
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			-Exposure Factor Ce = 0.9
			-Slope Snow Load ps = 11.00 psf
			Wind Loads: MRI Factor = 1.00
			-Basic Wind Speed V = 100 mph
			-Iw = 1 -Exposure = C
			-Wind Design performed in accordance with the requirements of ASCE - Wind Tunnel Procedure. Refer to Wind Tunnel Report by UWO BLWT $\hfill C$
			Laboratory dated 12/11/14.
			Seismic Loads:
			-SS = 0.137g, S1 = 0.069g -Site Class = D
			-SDS = 0.150g, SD1 = 0.110g -Seismic Design Category = A
			-Ordinary Steel Cantilever Column System
			5. Material strengths: -Hot-rolled structural steel ASTM A992 GR50,
			-Cold Formed Steel Sections comply w/ASTM A1003, structural grade,
			galvanized to Grade as noted. -Formed Steel Brackets - ASTM A653 Galvanized Grade 50 SS
STRENGT PSI	Н		-I-Beams - A992, 50 ksi, Hot Dip Galvanized to ASTM 123 Grade 85 -Plate - A36 Steel, Hot Dip Galvanized
ORT BY			-Connectors - Stainless Steel unless otherwise noted,
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			Engineer of Record
1		-	
		Mate	rialt
	DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED TOLERANCES ARE AS FOLLOWS:	Weig	
	.X = ± 0.100" (2.54mm) .XX = ± 0.030" (0.76mm) .XXX = ± 0.010" (0.25mm)	Desc	CT-LS-DB, JINKO JKM595-72HL4-BDV, 2x10, 30 DEG, ription: HENDRICKSON USA, FRESH COAST SOLAR
	ANGLE = ± 5° MIN. BREAK = 0.012" (0.3mm)	Proje	
L**	MIN. BREAK = 0.012" (0.3mm) SURFACE FINISH = 63 (US)	Draw Scale	
THERE IN IS ONFIDENTIAL PIED UNLESS DECT TO	<b>人 DCE</b>		19410 Jetton Rd, Ste 220 Cornelius, NC, 28031
	Elevating the Future for Solar	<u>,                                     </u>	www.dcesolar.com Phone:1-704-659-7474 D 6438 3
I		2	1







## PLANTSCHEDULE

Quantity	Code	Size	Botanical Name	Common Name
DECIDUOL	ISTREES			
10	OSVI	2.5" CAL	Ostrya virginiana	American Hophornbeam
10	TIAM	2.5" CAL	Tilia americana	American Basswood
10	QUBI	2.5" CAL	Quercus bicolor	Swamp White Oak
10	QUMA	2.5" CAL	Quercus macrocarpa	Bur Oak
CONIFERO	USTREES			
26	JM	6HT	Juniperus virginiana	Eastern Red Cedar
10	PIBA	6HT	Pinus banksiana	Jack Pine
20	PIRE	6HT	Pinus resinosa	Red Pine
36	PIST	6HT	Pinus strobus	Eastern White Pine
ORNAMENTALTREES				
12	AMCA	6HT	Amelanchier canadensis	Shadblow Serviceberry
12	COAL	6HT	Cornus alternifolia	Pagoda Dogwood
12	CRMO	6HT	Crataegus mollis	Downy Hawthorn
DECIDUOUSSHRUBS				
12	COAM	#5 CONT	Cornus amomum	Silky Dogwood
12	LIBE	#5 CONT	Lindera benzoin	Northern Spicebush
12	SACA	#5 CONT	Sambucus canadensis	American Ederberry
12	VIPR	#5 CONT	Viburnum prunifolium	Blackhaw Viburnum

### Solar Field Pollinator Habitat Seed Mix

Source: Stantec

Apply at 41.25 PLS pounds per acre Mature height of species selected = under 3'

#### Forbs

10100		
Scientific Name	Common Name	Total Ozs
Allium cernuum	Nodding Onion	6.0
Aquilegia canadensis	Wild Columbine	1.0
Asclepias syriaca	Common Milkweed	4.0
Chamaecrista fasciculata	Partridge Pea	12.0
Coreopsis lanceolata	Sand Coreopsis	10.0
Dalea purpurea	Purple Praire Clover	6.0
Liatris pychnostachya	Prairie Blazing Star	2.0
Lupinus perennis var. occidentalis	Wild Lupine	2.0
Monarda punctata	Horse Mint / Spotted Bermagot	1.5
Penstemon hirsutus	Hairy Beard Tongue	1.5
Solidago nemoralis	Old-Field Goldenrod	1.0
Symphyotrichum pilosum	Hairy Aster	1.0
Verbena stricta	Hoary Vervain	2.0
Zizia aurea	Golden Alexander	2.0
	TOTAL	52.0
Grasses		
Bouteloua curtipendula	Side-Oats Grama	24.0
Carex bicknellii	Copper-Shouldered Oval Sedge	3.5
Koeleria macrantha	June Grass	1.5
Schizachyrium scoparium	Little Bluestem	64.0
Sporobolus heterolepis	Prairie Dropseed	3.0
	TOTAL	96.0
Cover Crop		
Avena sativa	Common Oat	512.0
	TOTAL	512.0

#### IDOT Class 2A (salt tolerant roadside mix) Source: IDOT

Seeding rate: 200 lbs/acre (3,834 seeds / square foot)

Mature height of species selected = under 3' Forbs

Scientific Name	Common Name	%Mix	Total Ozs.
Festuca arundinacea	Tall Fescue	30	60.0
Festuca rubra	Red Fescue	15	30.0
Festuca trachyphylla	Hard Fescue	15	30.0
Lolium perenne	Perennial Rye	10	20.0
Puccinellia distans	Alkali Grass	30	60.0
	TOTAL		200.0

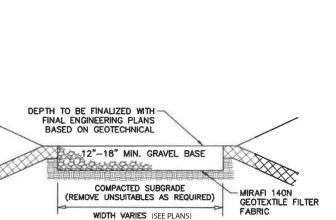
#### Ordinance code: 15.04.040 (2)

REQ. 1 planting (tree or shrub) per 725 sf 10 sf groundcover per planting

#### AREA 226,939 sf existing / 725 = 313 plantings 313 plantings x 10 sf groundcover = 3,130 sf

EXISTING 97 trees 313-97=216

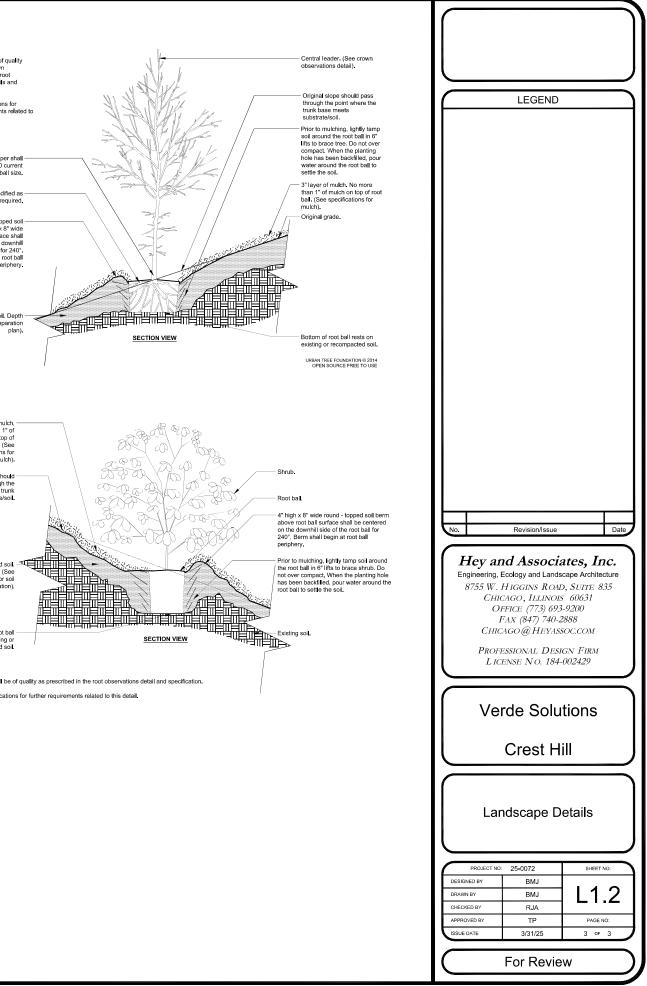
PROV. 216 (168 trees, 48 shrubs) 155,840 sf groundcover

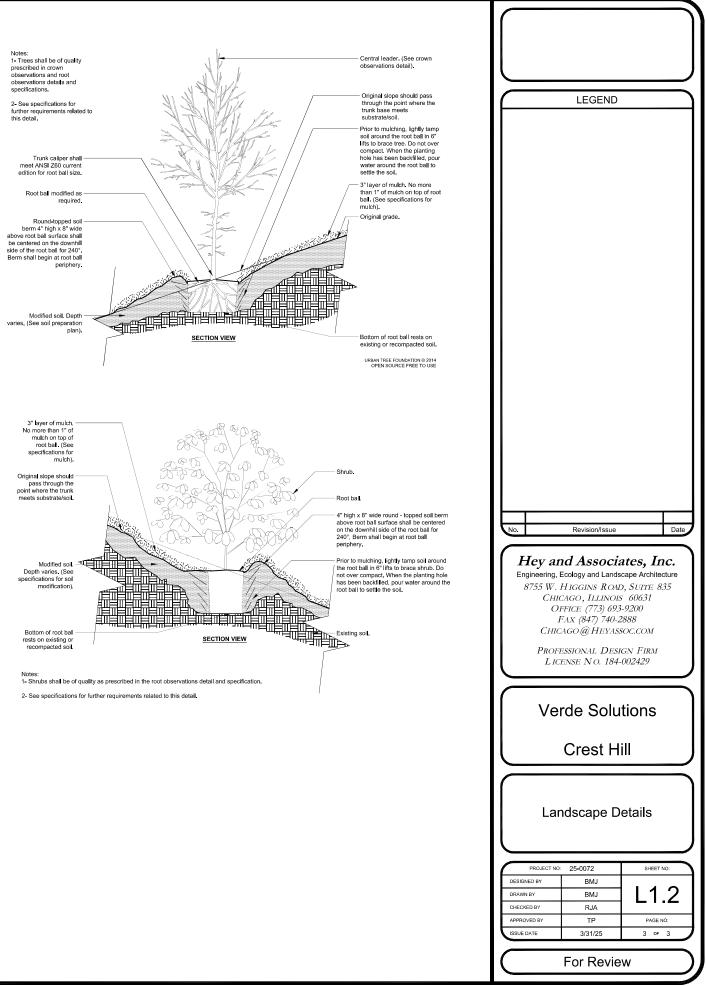


- NOTES:
   REMOVE TOPSOIL AND ALL UNSUITABLE MATERIAL AS REQUIRED AND REPLACE WITH GRAVEL.
   ACCESS DRIVES TO SLOPE IN THE DIRECTION OF THE EXISTING GRADE AT A MINIMUM OF 2.0% DRIVEWAY SHALL BE GRADED TO ALLOW STORMWATER TO SHEET ACROSS IT AND TO PREVENT PUDDLING.
   ROAD SECTION SHALL COMPLY WITH RECOMMENDATIONS FROM GEOTECHNICAL REPORT.
   FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE, TABLE 1 OR 2, CLASS I, II, OR IV AND SHALL BE PLACED OVER THE CLEARED AREA PRIOR TO THE PLACING OF ROCK.

ACCESS DRIVE/TEMPORARY LAYDOWN AREA CROSS SECTION

NOT TO SCALE







# **Unconditional Agreement and Consent**

# **UNCONDITIONAL AGREEMENT AND CONSENT**

# TO: The City of Crest Hill, Illinois ("City"):

WHEREAS, Hendrickson USA, LLC (the "Applicant") is the owner of that certain real property commonly known 501Caton Farm Road, in the City of Crest Hill, Illinois and bearing the current PINs: 11-04-33-100-002-0000 and 11-04-33-100-003-0000 ("Subject Property"); and

WHEREAS, Ordinance No. \_\_\_\_\_, approved and passed by the Crest Hill City Council on \_\_\_\_\_, 2025, ("the Ordinance"), conditionally approved a Special Use Permit and Variations to allow the construction of a Utility Facility (Ground Mounted Solar Array), subject to certain enumerated and specified conditions; and

WHEREAS, Section 6 of the Ordinance provides, among other things, that the Ordinance shall not take effect, and is subject to automatic repealer and recission, unless and until the Applicant has executed, within 60 days following the passage of the Ordinance, this Unconditional Agreement and Consent to accept and abide by each and all of the terms, conditions, and limitations set forth in the Ordinance.

NOW, THEREFORE, the Applicant does hereby agree, and covenant as follows:

1. The Applicant hereby unconditionally agrees to, accept, consent to, and will abide by all terms, conditions, limitations, restrictions, and provisions of the Ordinance.

2. The Applicant acknowledges that public notices and hearings have been properly given and held with respect to the application process and passage of the Ordinance, understands and has considered the possibility of revocation of the Ordinance as a result of violation of its terms or failure to abide by the conditions set forth in the Ordinance, and agrees, covenants and warrants that it will not challenge any such revocation on the basis of any procedural infirmity or a denial of any procedural right, provided that notice of the City's intent to Repeal or Revoke the Ordinance is provided to the Applicant as required by Section \_\_\_\_\_\_ of the Ordinance.

3. The Applicant acknowledges and agrees that the City shall not be in any way liable for any damages or injuries that may be sustained as a result of the City's granting of the Special Use Permit and Variations, or its passage of the Ordinance, and that the City's approvals do not, and will not, in any way be deemed to insure the Applicant against damage or injury of any kind at any time.

4. The Applicant hereby agrees to release, defend, indemnify and hold harmless the City of Crest Hill, its corporate authorities, elected and appointed officials, officers, employees, agents, representatives, and attorneys from any and all claims that may, at any time, be asserted against them in connection with (a) the City's review and approval of any plans and issuance of any

permits, (b) the City's passage of the Ordinance, and (c) the maintenance and use of the Property as authorized by the Ordinance.

Hendrickson USA, LLC

By: \_\_\_\_\_

Its: \_\_\_\_\_

Date: \_\_\_\_\_

SUBSCRIBED and SWORN to before me this \_\_\_\_\_\_day of \_\_\_\_\_\_, 2025.

Notary Public

My commission expires: \_\_\_\_\_