City Council Agenda Memo



Crest Hill, IL

Meeting Date: May 19, 2025

Submitter: Patrick Ainsworth, AICP Community and Economic Development Director

Department: Community & Economic Development

Agenda Item: Approval of an Ordinance for Case Number SU-25-2-4-1 Requesting a 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 presentation provided at the Plan Commission Meeting can be viewed by clicking on this link - https://cresthill-il.municodemeetings.com/bc-citycouncil/page/special-plan-commission-0

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 19, 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.

May 12, 2025 City Council Work Session – At the May 12, 2025 City Council Work Session, there was a presentation made by the Applicant highlighting the project and a discussion about the proposed improvement. The presentation slides made at this meeting at provided as Attachment D. The non-binding voice vote from City Council resulted in a favorable recommendation to take this item to the May 19, 2025 Regular City Council Meeting for Ordinance consideration.

Recommended Council Action: Community Development staff recommends that the City Council approve the Ordinance pertaining to Case Number SU-25-2-4-1 Requesting a Special Use and Variation Application for 501 Caton Farm Road.

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 D Presentation Slides from the May 12, 2025 City Council Work Session



Application for Development

For Office Use O	nly: Case Number:
Project Name: Hendrickson USA	- 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: 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 le buildingdepartment@cityofcresthill.co	egal description only in a Word document to:
Existing Zoning: M2	Existing Land Use: General Manufacturing District
Requested Zoning: M2	Proposed Land Use: General Manufacturing District
Adjoining Properties Zoning and Uses North of Property: 11-04-28-100-003 Sta	
South of Property: 11-04-33-100-006	6 Commonwealth Edison Co
East of Property: 11-04-33-10-003 H	endrickson USA LLC
West of Property: 11-04-33-100-001	Roman Catholic Diocese
Purpose Statement (intended use and Install 1.18 MW of fixed tilt ground mounte	

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 app	oly and describe:
[] Rezoning:	
[X] Special Use: Ground Mounted Solar PV	
[] Variance:	
[] Planned Unit Development:	
[] Annexation:	
[] Plat:	
[] Other:	
	ndicate 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) w development request.	hen the 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	d, please provide the owner's signature.
Signature of the Owner	03/14/25
Signature of the Owner	Date

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

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

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

- 1 CHAIRMAN THOMAS: Yes.
- SAMANTHA TILLEY: Motion carried.
- CHAIRMAN THOMAS: And now can I have a
- 4 motion to approve the minutes from the Plan
- ⁵ Commission Meeting held on March 27, 2025? Was
- 6 that a special?
- SAMANTHA TILLEY: Yes.
- 8 CHAIRMAN THOMAS: Better put special on
- ⁹ the title there. Special Plan Commission Meeting.
- 10 COMMISSIONER CARROLL: So moved.
- 11 CHAIRMAN THOMAS: Motion by Commissioner
- ¹² Carroll.
- 13 COMMISSIONER PETERSON: Second.
- 14 CHAIRMAN THOMAS: Second by Commissioner
- 15 Peterson.
- Roll call, please.
- SAMANTHA TILLEY: Ken Carroll?
- 18 COMMISSIONER CARROLL: Yes.
- SAMANTHA TILLEY: Jeff Peterson?
- COMMISSIONER PETERSON: Yes.
- 21 COMMISSIONER FLYNN: Yes.
- SAMANTHA TILLEY: Marty Flynn?
- COMMISSIONER FLYNN: Yes.
- SAMANTHA TILLEY: John Stanton?

- 1 COMMISSIONER STANTON: Yes.
- SAMANTHA TILLEY: Cheryl Slabozeski?
- COMMISSIONER SLABOZESKI: Abstain.
- SAMANTHA TILLEY: Angelo DeSerio?
- ⁵ COMMISSIONER DESERIO: Yes.
- 6 SAMANTHA TILLEY: And Bill Thomas?
- 8 SAMANTHA TILLEY: Motion carried.
- 9 CHAIRMAN THOMAS: Okay. Next item is new
- business. We have one case on the agenda for
- tonight, a public hearing and consideration of
- 12 Case SU-25-2-4-1, a 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 an M-2 general manufacturing district located
- at 501 Caton Farm Road in Crest Hill, Illinois.
- Samantha, is all the paperwork in order?
- SAMANTHA TILLEY: The necessary paperwork
- is in order.
- CHAIRMAN THOMAS: Okay. Thank you.
- Then I would like to have a motion to
- open the public hearing for Case SU-25-2-4-1.

- Motion, please.
- ² COMMISSIONER DESERIO: So moved.
- CHAIRMAN THOMAS: Motion by Commissioner
- ⁴ DeSerio.
- ⁵ COMMISSIONER SLABOZESKI: Second.
- 6 CHAIRMAN THOMAS: Second by Commissioner
- ⁷ Slabozeski.
- ⁸ Roll call, please.
- SAMANTHA TILLEY: Angelo DeSerio?
- 10 COMMISSIONER DESERIO: Yes.
- SAMANTHA TILLEY: Cheryl Slabozeski?
- 12 COMMISSIONER SLABOZESKI: Yes.
- SAMANTHA TILLEY: Ken Carroll?
- 14 COMMISSIONER CARROLL: Yes.
- SAMANTHA TILLEY: John Stanton?
- 16 COMMISSIONER STANTON: Yes.
- SAMANTHA TILLEY: Jeff Peterson?
- 18 COMMISSIONER PETERSON: Yes.
- SAMANTHA TILLEY: Marty Flynn?
- COMMISSIONER FLYNN: Yes.
- SAMANTHA TILLEY: And Bill Thomas?
- 22 CHAIRMAN THOMAS: Yes.
- SAMANTHA TILLEY: Motion carried.
- CHAIRMAN THOMAS: Public hearing is

- opened at 7:03 p.m.
- 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.
- MR. ANSWORTH: Thank you, Chairman.
- Can you hear me okay? Okay. I'll be
- ⁸ actually brief.
- The petitioner has prepared a very
- thorough presentation, but, as presented tonight,
- there's one special use and one variation from the
- zoning ordinance and a deviation from the City
- code for the driveway.
- The subject property actually consists of
- two pins, there's the manufacturing facility on
- the eastern pin, which the subject -- the
- applicant has been at that subject site for nearly
- ¹⁸ 50 years. They have committed to investing in
- this property and including alternative energy,
- hence the solar array on the western site, and
- part of their grant -- part of their application
- mentioned that the -- part of a grant from the
- state of Illinois, so this will actually help
- power their -- all their facilities for their

- annual needs. It's approximately 1. -- I think --
- 8 megawatts of power. So hence that size creates
- a unique size of this project. Our community and
- economic development consultant, Ron Mentzer, was
- working with them before my tenure and determined
- it was a special use. As part of that special use
- 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
- go to repave that property, tonight's applications
- kind of protect that driveway, they can just go
- straight to permit, and hence that's the, again,
- deviation being requested.
- The other variation is we were working
- closely with the Lockport Fire Protection
- District. This is, again, a unique circumstance.
- We do not have a solar array of this size, so,
- from a life-saving perspective, even though this
- is an unmanned area, our Fire Protection District
- thought it would be necessary to gain access to
- this property, but because this area is just north
- of a wet -- of a floodplain area and they're not
- required to do any storm water detention, we
- worked with them carefully to craft a design of

- 1 this road that you'll see in the site plan later
- tonight of limestone -- it's a three quarter stone
- lined with limestone material. Our City engineer
- was closely working with their engineering firm
- 5 and the Fire Protection District to create that.
- Our City code requires driveways, drive aisles,
- 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
- 180 feet back from Caton Farm Road. It's tucked
- behind a landscaped area, and then it will be
- further protected by additional landscaping that
- you'll see on the landscape plans.
- So the variation is for the material
- itself, but because this is a locked facility,
- 16 fenced facility and just for the Lockport Fire
- 17 Protection District, and perhaps some maintenance
- down the road, Staff is supportive of the unique
- 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

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

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- (Chris Batsch and Grace Rasmussen duly sworn.)
- CHAIRMAN THOMAS: Okay. Thank you.
- Take it away, Chris.
- 4 CHRIS BATSCH: All right.
- 5 Good evening, everybody, and thank you
- for hosting this event, for scheduling the kind of
- ⁷ special meeting for us to get together and talk
- ⁸ about this.
- My name is Chris Batsch. I'm the general
- manager at Hendrickson Bumper, almost right across
- the road from you guys here in Crest Hill. I have
- been with Hendrickson for about 15 years. I have
- been at the bumper division here in Crest Hill for
- almost three years. I did want to start off just
- with a brief overview of Hendrickson, and I know
- most in the room probably aren't very familiar
- with what Hendrickson does, and a little bit of
- background, and then I'll turn it over to Grace
- 19 from Verde Solutions who is the solar installer to
- 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 manufacturing trucks for the trucking industry, and then eventually we evolved into focusing more on part -- part or sub-system supply to the heavy truck industry. Our main focus is suspension, axles, trailer axles, 7 leaf springs, blast (inaudible) components, and probably, to my team in the room, most importantly the bumpers, which is what's made right down the road.

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

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

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

¹ first shift.

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I think Patrick kind of alluded to that Hendrickson has been a part of the community for a very long time, close to 50 years. Hendrickson company acquired that facility back in 1977, so we have been embedded into Crest Hill since 1977. We have all the functional support functions within that facility. We do not rely on our corporate divisions for most of our day-to-day activities, so we do have operations, engineering, quality, marketing, all of those aspects that are under one roof. We are a Tier 1 supplier to most of the OEMs, and I'll jump into a little bit more detail to shed a little bit more light on kind of what kind of products that we do and what our specialty is. We do make about 100,000 bumpers a year. you're familiar with the Class A industry or the heavy truck industry it's anywhere from 250- to 300,000 trucks that are made a year just to put that in perspective.

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.

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We do hold several certifications within this facility. IATF, which is a quality process control standard that we do hold, that is the highest level for our industry. ISO 14001, that is an environmental standard that we are certified to. VPP Star certification. This is an OSHA funded program or an OSHA provided program. We are the only manufacturer within North America that is -that has been awarded this certification. This certification is for companies that go above and beyond the minimum standards for safety, and we -- we -- sorry, for safety and proactive things that we do towards the safety of the employees. The last one that we have is Great Places to Work certified. This is another one that we just recently got. This involves the culture of -- and the voice of 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.

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

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

The main reason what prompted this project was driven by the customers.

Hendrickson has a lot of internal sustainability goals, but our customers are even more demanding than what we initially started off with our sustainability goals. In the last five years several customers have taken the requirement that the companies have to have advancement in sustainability and targets towards carbon neutral to be able to be awarded new business. So this is something that we made a commitment to our customers that we would -- we would go after and pursue.

As I mentioned, a lot of our equipment is electric driven; the presses, the robots, the laser cutters, all of that is -- is utilizing

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.

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

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

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

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

now is the solar field.

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

I wanted to talk a little bit about the selection process here with Verde just to kind of give you guys a little bit of reassurance that we did do our due diligence, that this wasn't something that we picked out of the back of the Yellow Pages, we actually went through a fairly -- fairly thorough vetting 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 of them outsource one or the other. We wanted one person to be able to call if there's a problem with the engineering, the installation, the service, the warranty, everything all in one spot. We wanted 7 somebody local that was within 100 miles that could be on site as needed. We also wanted to demonstrate local performance. I think Grace 10 will touch on a few of those in her 11 presentation that she'll share with you. 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.

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

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

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

- confidence this is only going to further grow
- our business and bring more jobs to the
- 3 community.
- So, with that, any questions for me
- ⁵ regarding Hendrickson before Grace kind of
- steps in?
- CHAIRMAN THOMAS: I'm just kind of
- 8 curious, with all this talk going around these
- 9 days about tariffs and you relying on export
- business so much, how does any of that affect your
- ¹¹ business?
- MR. BATSCH: At the corporate level it
- definitely does. That's more of an impact. Our
- division, the bumper division, 98 percent of ours
- is picked up by U.S. based customers. So we are
- not faced with the tariffs as much, which
- definitely puts us in a greater position versus
- our competitors that are outsourcing a lot of
- these, whether it's the paint or the chrome
- ²⁰ process or things like that that are being
- outsourced across the borders.
- So, from our standpoint, we are very well
- positioned from the tariff aspect because all of
- our processes are here in the U.S., and then all

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

- 1 it, but technology has been moving over time,
- especially renewable energy --
- MR. BATSCH: Sure.
- 4 COMMISSIONER STANTON: However, atomic
- energy is still in development --
- MR. BATSCH: Absolutely.
- 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
- concern with this regarding the system removal, it
- says "during the system removal Verde will remove
- all tangible property relating to the solar
- system. The land will be restored to it's
- original condition with the exception of buried
- 15 conduit."
- Well, I don't like buried conduit. I'm
- sure there's a lot of conduits underneath --
- 18 CHRIS BATSCH: Sure.
- COMMISSIONER STANTON: -- and I'm sure
- using at least one inch piping or more, and that's
- not good. It needs to be included to be removed.
- CHRIS BATSCH: Sure. Yeah.
- COMMISSIONER STANTON: For future
- 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
- perspective, the solar disposal technology
- ontinues to evolve almost on the daily basis on
- what type of recyclability, that's why I think it
- ⁹ was difficult for us to really put together a plan
- of what that would look like from a removal, a
- disposal and the recyclability. We don't know
- where this is going to -- what kind of technology
- is going to be out there from the solar and, to
- your point, maybe it's atomic that might be able
- to evolve into a different -- a different use case
- ¹⁶ for that land.
- From our side, I know Hendrickson, based
- off of everything that we do, we typically go
- ¹⁹ after what is the most sustainable or
- environmentally friendly option, and that is
- everly changing from a day-to-day perspective. I
- know Grace will touch on this a little bit, you
- know, we will be working with Grace during the
- terms of the warranty period and probably even

- beyond that. So who knows what kind of technology
- that Verde will have access to in 30 years, if we
- even need to replace it at that time.
- MS. RASMUSSEN: Yeah, just to add, the
- 5 solar panels are warrantyed for 30 years, so I
- guess we'll have to see what happens in 30 years
- and what Hendrickson wants to do. The solar
- panels will continue to produce long after that,
- ⁹ it's just outside of the warranty, but, yeah, I
- quess that's one bridge we'll cross when we get
- there, but we will note the conduit removal.
- 12 COMMISSIONER STANTON: Okay. Okay. And
- my next concern is the impervious gravel system.
- There's -- people say that it's -- gravel while
- it's -- what have you, is not impervious -- or it
- is impervious, it's not pervious. Only because
- over time gravel, stone, and what have you, settle
- and it collects dirt, et cetera. So you would
- have more and more runoff -- water runoff over a
- period of time. Maybe you should investigate a
- pervious draining system. I'm sure there's many
- of them out there. I'm not too comfortable with
- the gravel because you -- you do have equipment
- driving on there. I would imagine the fire trucks

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

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

- ¹ gets used.
- COMMISSIONER STANTON: Okay. Well, I
- have to believe that there are a pervious system,
- like there's pavers where grass grows through it
- 5 and it supports the vehicles and what have you,
- and you will need to cut lawn, anyway, around the
- solar panels, so I would think it would be a less
- of a maintenance. Yeah, it might be a little more
- 9 cost up front, but not as expensive as a pavement
- like concrete or asphalt or what have you to
- eliminate the detention pond and to minimize the
- water runoff, but I think there is a better
- system, maybe it needs a little more
- investigation, what's appropriate. Yes, the cost
- is a factor in this, but I would like to see if
- you can look into another alternative to a gravel
- 17 road.
- 18 CHRIS BATSCH: I think we would be more
- than happy to investigate anything that's
- recommended by the City. I think the City
- engineers probably have much more experience from
- that aspect than we do. If you need a bumper we
- can help you, but we're not very good at designing
- gravel roads, but we were -- we would be more than

- happy to entertain or quote anything that we
- ² looked at.
- One thing to keep in mind, we are talking
- ⁴ about a rather extensive amount of property that
- 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.
- And, as Grace will point out, the other thing that
- we have to consider is also turnaround points for
- the fire trucks. So it's not just a ten-foot
- wide, the fire truck has to be able to swing the
- entire ladder around it, which made about
- ¹⁹ 20 percent more road surface that would be
- required out there.
- So, from our perspective, we would
- definitely entertain and quote anything that was
- recommended as alternatives to that.
- COMMISSIONER STANTON: I'm sure you guys

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

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

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

Here is the proposed design. The blue is the solar panels, and so we have about -just under 2,000 modules proposed, expected to produce 1.5 million kilowatt hours each year.

And then, like Chris said, offsetting 100 percent of Hendrickson's electricity usage.

So here is an example of what the solar would look like installed.

Here is the overall electrical plan.

Some things to note is there will be a fence connecting the west fence line and the east fence line, and then the gravel access path that we discussed has the turnaround points around the perimeter of the array, and then there's also a south fence line boundary.

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

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

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

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

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

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

- as well.
- Any questions? I have kind of flipped
- through everything really quickly. We can go
- 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?
- 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?
- MS. RASMUSSEN: We definitely can, yeah.
- 14 CHRIS BATSCH: Absolutely.
- 15 CHAIRMAN THOMAS: I was surprised when I
- drove by there how -- what -- already what a tree
- barrier that exists. There are a lot of trees
- along Caton Farm Road, so...
- CHRIS BATSCH: Yeah. Yeah.
- CHAIRMAN THOMAS: And your access road
- that you have been talking about actually now
- comes off of your property, not off of Caton Farm
- Road, correct?
- CHRIS BATSCH: That is correct.

- 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 --
- CHRIS BATSCH: Yes. That is correct.
- 11 CHAIRMAN THOMAS: It's out of sight.
- No, it looks very well thought out.
- Okay. Anybody have any questions -- any
- more questions?
- 15 COMMISSIONER CARROLL: I just have one.
- What is underneath the panel? Is that going to be
- gravel or grass?
- MS. RASMUSSEN: It's going to be grass
- and that pollinator friendly seed mix.
- COMMISSIONER CARROLL: Okay.
- CHAIRMAN THOMAS: Okay. What do we
- think?
- Does Staff have any more questions before
- ²⁴ we --

- PATRICK ANSWORTH: Just to go back on the
- access road. Again, this is the best compromise
- based on the cost, the regular requirements,
- there's not only our ordinance, but Will County
- 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.
- 10 CHAIRMAN THOMAS: Mm-hmm. Yeah. I take
- a lot of confidence that our engineer and the
- Lockport Township Fire Department has reviewed
- that in detail, the -- to Commissioner Stanton's
- concerns about the material being used, that they
- 15 felt pretty good to start off with that the way it
- is and, to your point, let's hope they never have
- to use it. It's not like it's going to be a high
- traffic area, but if they have to, we certainly
- don't want them to get stuck and not be able to
- 20 get to where they need to go around there. So I
- think we have to kind of trust their judgment to
- that.
- CHRIS BATSCH: Yeah. We did host the
- fire marshall there on site, so we walked the

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 m l}$ grounds, took a look at everything, where the
- turning points would be, roughly where the solar
- field will lay out. We'll continue that
- 4 relationship with him as we finish it and as well
- 5 as annual inspections to get out there. We
- understand this is new for them, it's new for us,
- it's new for the City, so the more that we can
- 8 communicate and open the door for coming out there
- ⁹ to do it, whether they want to do training access,
- whatever, they'll have full access to that.
- 11 CHAIRMAN THOMAS: Okay. Are we good?
- Any more questions? And looking around the
- audience, unless my wife wants to say something, I
- don't see anybody else here that is not part of
- Hendrickson, so I just have to ask: Is there
- anyone in the audience that wants to come forward
- and make a comment or a question on this
- particular case? And I see none.
- So if there are no more questions as part
- of the public hearing, I think I would like to ask
- for a motion to close the public hearing.
- 22 COMMISSIONER PETERSON: I'll make that
- motion.
- CHAIRMAN THOMAS: Motion by Commissioner

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

- back and consider. We certainly noted
- ² Commissioner Stanton's concern with the removal,
- and, I don't know, do we need to have any mention
- of that in anything right now going forward
- 5 30-plus years? If we take that out, do we have to
- 6 have a note that we would like to make sure the
- ⁷ conduit is included in the removal?
- PATRICK ANSWORTH: So, I mean, the
- 9 ordinance is -- the special use lays with the
- land, and obviously we hold this on. I don't know
- if I have a time clicker -- time clock for going
- up to 30 years, but if any new development happens
- on there, proper excavation takes place to remove
- anything on site that would impede on the health,
- safety, and welfare of a new structure. So I
- completely empathize with Commissioner Stanton's
- approach. A condition can be added 30 years from
- now during the decommissioning of this to remove
- the conduit and, you know, Staff 30 years from now
- will have to review that ordinance prior to any
- demo permit, but when excavators are out on site,
- they'll note items found on field and make
- adjustments to fully removing it if any
- development were to happen there in the future.

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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
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MS. RASMUSSEN: No.

many places removing it.

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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.

Okay. Can I call for the motion? Can I call for a motion to approve the request from Hendrickson USA LLC for granting of a special use permit and variations for a new solar array on a 4.8-acre area of land in the M-2 general manufacturing district located at 501 Caton Farm Road Crest Hill, Illinois?

Now we have mentioned the ten conditions.

You're aware of these ten conditions --

- MR. BATSCH: Yes.
- 2 CHAIRMAN THOMAS: -- and have seen them
- and agree to all of them?
- 4 CHRIS BATSCH: Yes.
- ⁵ CHAIRMAN THOMAS: Okay. So is there a
- 6 motion to approve?
- 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
- motion.
- 14 CHAIRMAN THOMAS: You'll make that
- motion, Commissioner Peterson.
- 16 COMMISSIONER SLABOZESKI: Second.
- 17 CHAIRMAN THOMAS: Commissioner Slabozeski
- second.
- Roll call, please.
- SAMANTHA TILLEY: Jeff Peterson?
- 21 COMMISSIONER PETERSON: Yes.
- SAMANTHA TILLEY: Cheryl Slabozeski?
- COMMISSIONER SLABOZESKI: Yes.
- SAMANTHA TILLEY: Angelo DeSerio?

- 1 COMMISSIONER DESERIO: Yes.
- SAMANTHA TILLEY: Ken Carroll?
- COMMISSIONER CARROLL: Yes.
- SAMANTHA TILLEY: John Stanton?
- ⁵ COMMISSIONER STANTON: Yes.
- SAMANTHA TILLEY: Marty Flynn?
- 7 COMMISSIONER FLYNN: Yes.
- 8 SAMANTHA TILLEY: And Bill Thomas?
- 9 CHAIRMAN THOMAS: Yes.
- SAMANTHA TILLEY: Motion carried.
- 11 CHAIRMAN THOMAS: Motion passed 7 to 0.
- PATRICK ANSWORTH: That item will be on
- the May 12th special -- or not special use --
- sorry, the regular session -- work session for
- 15 City Council -- it has been a long day -- so we
- will -- Staff will be in communication with your
- 17 team on that.
- 18 CHAIRMAN THOMAS: Okay. So let me finish
- ¹⁹ up. Thank you.
- First of all, I want to thank and
- congratulate Hendrickson USA LLC for being a City
- of Crest Hill business for almost 50 years. On
- behalf of the Plan Commission we thank you for
- 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.
- 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
- and for the new solar array on the 4.8-acre farm
- 9 land -- solar farm land of the M-2 general
- manufacturing district located at 501 Caton Farm
- Road with the ten conditions discussed earlier,
- and those conditions will be attached to our
- minutes of this meeting, and we will forward our
- recommendation to the City Council. The Plan
- Commission is only a recommending body, and it
- sounds like the City Council will hear your case
- at their work succession on May 12th, so I
- encourage, and I'm sure you will be there to
- reiterate the terrific presentations that you both
- made. And, again, I thank you for being a part of
- ²¹ Crest Hill and we look forward to this exciting
- new venture.
- CHRIS BATSCH: Thank you very much.
- UNIDENTIFIED SPEAKER: Thank you.

- 1 CHAIRMAN THOMAS: Thank you.
- So we have other business to do. If you
- want to stick around, you're welcome to, but you
- can also feel free to get up and leave without
- 5 disturbing us, that would be fine. We look
- forward to seeing you on May 12th.
- 7 CHRIS BATSCH: Thank you.
- 8 CHAIRMAN THOMAS: Thank you very much.
- So we have other business on our agenda.
- The first one being the presentation, discussion,
- and approval regarding the proposed amendments to
- the Plan Commission Bylaws.
- And, Mike, is there something you want to
- just make some comments on or...
- MIKE STIFF: Not really. I mean, this
- has already been -- the only change that was made
- was there was a -- City Council clarified the
- ordinance with respect to compensation and the
- number of absences, so we just incorporated the
- 20 new ordinance by reference into this, and then I
- think we added a signature line for Patrick since
- he is new as the actual director of community and
- economic development, and then, obviously, the
- dates changed, but, other than that, I think this

- is what you discussed and vetted and everybody was
- okay with back in October, we just haven't had a
- meeting since then to approve it.
- 4 CHAIRMAN THOMAS: Yeah, it has taken us
- 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
- 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.
- Any more discussion on it? Good to go?
- So roll call, please, Samantha.
- SAMANTHA TILLEY: Ken Carroll?
- 18 COMMISSIONER CARROLL: Yes.
- SAMANTHA TILLEY: Jeff Peterson?
- COMMISSIONER PETERSON: Yes.
- SAMANTHA TILLEY: Marty Flynn?
- 22 COMMISSIONER FLYNN: Yes.
- SAMANTHA TILLEY: John Stanton?
- COMMISSIONER STANTON: Yes.

- SAMANTHA TILLEY: Cheryl Slabozeski?
- ² COMMISSIONER SLABOZESKI: Yes.
- SAMANTHA TILLEY: Angelo DeSerio?
- 4 COMMISSIONER DESERIO: Yes.
- 5 SAMANTHA TILLEY: Bill Thomas?
- 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?
- 12 COMMISSIONER DESERIO: Yes, there is,
- ¹³ Mr. Chairman.
- To Chairman William Thomas, Chairman of
- the Crest Hill Plan Commission, as of tonight at
- the close of business tonight I am submitting my
- resignation as a commissioner to the Planning
- Commission. It's with a humble heart that I do
- this. I have been on this Planning Commission
- 20 since, I believe, 2020, if not before that. I
- 21 appreciate the knowledge I have received. I did
- submit a letter to you and Samantha and Christine
- Vershay. This is not a resignation because of any
- ill will, it is a resignation because I was

- elected as Alderman of Ward 1 and I cannot serve
- on both positions.
- CHAIRMAN THOMAS: You know, normally I
- would say, wow, we're really sorry to see you go,
- but in this particular case we are very excited to
- see you the now become a member of the Plan
- Commission, and you have been a definite asset to
- 8 the Plan Commission. You have served as secretary
- ⁹ for the last four of your five years and we wish
- you nothing -- nothing but the best as you go
- 11 forward, so thank you.
- MIKE STIFF: I actually thought you were
- qoing to ask Commissioner Peterson if you could
- take your chair over there for tonight's meeting,
- ¹⁵ but...
- 16 CHAIRMAN THOMAS: Yeah. So we have --
- May, according to our new bylaws, the month of May
- is when we reelect chairman, vice chairman and
- secretary, so I think when we have our May meeting
- on the agenda we will put election -- election of
- officers should already be going to be on there.
- MIKE STIFF: Patrick has just indicated
- that we currently have no May agenda items, so it
- will have to be June, unless you want to meet just

- to reorganize.
- PATRICK ANSWORTH: I guarantee you we
- will have at least one agenda for June.
- 4 CHAIRMAN THOMAS: So we weren't able to
- ⁵ pull that meeting to a special meeting later in
- 6 the month?
- PATRICK ANSWORTH: Staffing times and --
- 8 CHAIRMAN THOMAS: Okay. Well, that's
- ⁹ 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...
- Okay. Well, that takes care of the other
- business and I don't see anybody out there to make
- public comments, so with no public comment
- required can we have a motion for adjournment?
- And I have actually already penciled in that
- Commissioner DeSerio is going to make the motion
- for adjournment this meeting, his last meeting.
- 19 COMMISSIONER DESERIO: So moved.
- CHAIRMAN THOMAS: So I need a second.
- 21 COMMISSIONER FLYNN: I'll second.
- CHAIRMAN THOMAS: Was that Marty?
- COMMISSIONER FLYNN: Yes.
- CHAIRMAN THOMAS: All right.

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Commissioner Flynn for the second.
             And can we have a roll call, please?
             SAMANTHA TILLEY: Angelo DeSerio?
             COMMISSIONER DESERIO: Yes.
             SAMANTHA TILLEY: Marty Flynn?
             COMMISSIONER FLYNN:
                                  Yes.
             SAMANTHA TILLEY: John Stanton?
             COMMISSIONER STANTON: Yes.
             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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47:17 **150,000** 13:13 wait 35:11 6 **walked** 40:24 worked 8:24 40:6 **16** 36:13 **6,000** 12:21 **walls** 16:9 working 8:5,8,14 **168** 37:11 7 want 10:4 11:14 9:4 19:24 27:23 **180** 9:10 13:8 40:19 41:9 works 29:7 **19** 36:10 **7**46:11 46:20 47:1 48:3 worldwide 12:22 **1977** 14:6.7 **7:00** 1:8 2:3 48:13 51:24 wow 51:4 **7:03** 7:1 2 wanted 18:4 20:10 **7:47** 42:22 X **2** 14:24 21:2,6,8 22:1,23 **7:58** 53:19 **2,000** 33:18 35:18 wants 26:24 28:7 **7:59** 53:19,20 \mathbf{Y} **2.15** 36:20 41:13,16 yeah 25:15 26:22 **20** 19:12 32:19 8 Ward 51:1 28:4,9 30:6 31:8 **2002** 18:5 88:2 warranty 21:5 38:13.19.19 39:3 **2012** 33:16 27:24 28:9 9 40:10,23 49:4 **2020** 50:20 warrantyed 28:5 51:16 **90** 13:23 **2022** 18:5 wasn't 20:14 year 14:18,21 19:5 **97** 37:10 **2024** 34:22 **Waste** 34:8 35:19 **98** 24:14 **2025** 1:2,8 2:2 3:4 water 8:23 28:19 years 7:18 11:12,14 4:5 53:21 31:12 34:9 11:23 14:4 17:15 **20600** 1:6 wav 15:3 32:7 23:17,18 28:2,5,6 **216** 36:23 37:9 38:9 33:24 40:15 44:5 29:9 43:5,12,17 **24** 1:2 **we'll** 12:16 28:6,10 43:19 44:3,8 **24th** 1:8 2:2 53:21 41:3 44:14 52:9 46:22 51:9 **250-** 14:21 we're 10:12 15:5 **Yellow** 20:15 **27** 4:5 18:16 19:14,24 **Yep** 38:8 20:4 23:12,13 3 25:15,22 30:6 \mathbf{Z} **3**9:20 31:23 33:16 35:10 **zoning** 5:16 7:12 **30** 8:9 19:12 25:23 44:8 51:4 9:21 28:2,5,6 29:9 32:6 **weight** 30:23 **zoom** 38:4 36:9 43:12,17,19 **welcome** 2:1 19:7 **zoomed** 36:7 44:2,8 48:3 **30-plus** 12:21 43:5 **welfare** 43:15 0 **300,000** 14:21 went 20:15 21:12 046:11 **33.000** 32:7 weren't 52:4 **084-004897** 54:17 west 35:2 36:2 4 western 7:20 1 4 10:2 wet 8:22 18:114:14,23 51:1 **4.8-acre** 5:16 44:20 **wetland** 35:6.7.9.13 **1.5** 35:19 47:8 wide 22:17 32:17 **100** 11:23 21:7 **40** 32:10 36:14 35:20 **40-something** 32:8 wife 41:13 **100,000** 14:18 **48** 33:18 37:11 **William** 50:14 10th 34:22 **window** 39:9 **12th** 46:13 47:17 wire 36:17 48:6 **50** 7:18 14:4 18:16 wish 51:9 **13** 34:14 46:22 wonderful 38:11 **13th** 3:4 **501** 5:18 44:22 work 15:21 29:9 **14001** 15:10 47:10 30:21 33:2 46:14 **15** 11:12 23:18

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 Exhibit B 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:

- 1. 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 TH 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				
	Christi	ine Vershay-	Hall, City Cl	erk
APPROVED THIS 19 TH DAY OF MAY, 2025				
Raymond R. Soliman, Mayor				
ATTEST:				

Christine Vershay-Hall, City Clerk



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

Exhibit C

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

Exhibit DUnconditional Agreement and Consent

UNCONDITIONAL AGREEMENT AND CONSENT

WHEREAS, Hendrickson USA, LLC (the "Applicant") is the owner of that certain real

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

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

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.

terms, conditions, limitations, restrictions, and provisions 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

Hendrickson USA, LLC		
By:		
Its:		
Date:		
SUBSCRIBED and SWORN to before me		
this, 2025.		
Notary Public		

My commission expires:

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

as authorized by the Ordinance.

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

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. SU-25-2-4-1
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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	Aye	Nay	Absent	Abstain
Commissioner Cheryl Slabozeski	X			
Commissioner John Stanton	<u>X</u>			
Commissioner Ken Carroll	<u>X</u>			
Commissioner Marty Flynn	<u>X</u>			
Commissioner Bill Thomas	<u>X</u>			
Commissioner Jeff Thomas	<u>X</u>			
Commissioner Angelo Deserio	<u>X</u>			
Approved:				
Bill Thomas, Chairperson				
Attest:				

"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



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

Re: Crest Hill, Illinois

Project Details

Project	Utility Facility (Solar Array)
Request	Special Use for Utility Facility
	Variation for Surface Material
	Deviation from Curb Cut Width
Location	501 Caton Farm Road

Site Details

Bui Siz	ilding es	N/A
Site	e Area	24.6 Acres

Land Use and Zoning Summary

	Land Use	Comp Plan	Zoning
Subject Parcel	Vacant & Manufacturing	Manufacturing	M-2
North	Stateville	Stateville	M-1
South	ComEd	Manufacturing	M-2
East	Manufacturing	Manufacturing	M-2
West	Cemetery	Community Facilities	M-1

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 3/4" 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.

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

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*

^{*}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 ¾" 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



6



Application for Development

For Office Use O	nly: Case Number:
Project Name: Hendrickson USA	- 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: 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 le buildingdepartment@cityofcresthill.co	egal description only in a Word document to:
Existing Zoning: M2	Existing Land Use: General Manufacturing District
Requested Zoning: M2	Proposed Land Use: General Manufacturing District
Adjoining Properties Zoning and Uses North of Property: 11-04-28-100-003 Sta	
South of Property: 11-04-33-100-006	6 Commonwealth Edison Co
East of Property: 11-04-33-10-003 H	endrickson USA LLC
West of Property: 11-04-33-100-001	Roman Catholic Diocese
Purpose Statement (intended use and Install 1.18 MW of fixed tilt ground mounte	

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 an	d describe:
[] Rezoning:	
[X] Special Use: Ground Mounted Solar PV	
[] Variance:	
[] Planned Unit Development:	
[] Annexation:	
[] Plat:	
[] Other:	
Contact Information – If not yet known, please indica all correspondences should be forwarded.	
[] 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 t development request.	he 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, ple	ase provide the owner's signature.
Signature of the Owner	03/14/25
Signature of the Owner	Date

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 ¾" 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



Go Green Get Ahead

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:

Chicago, IL 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
Site Runoff and Site Runoff Storage	
Groundcover Vegetation	
Impervious Areas	3
Solar Panel Spacing and Sheet Flow	3
Sediment and Erosion Control	3
Special Management Areas	3

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.

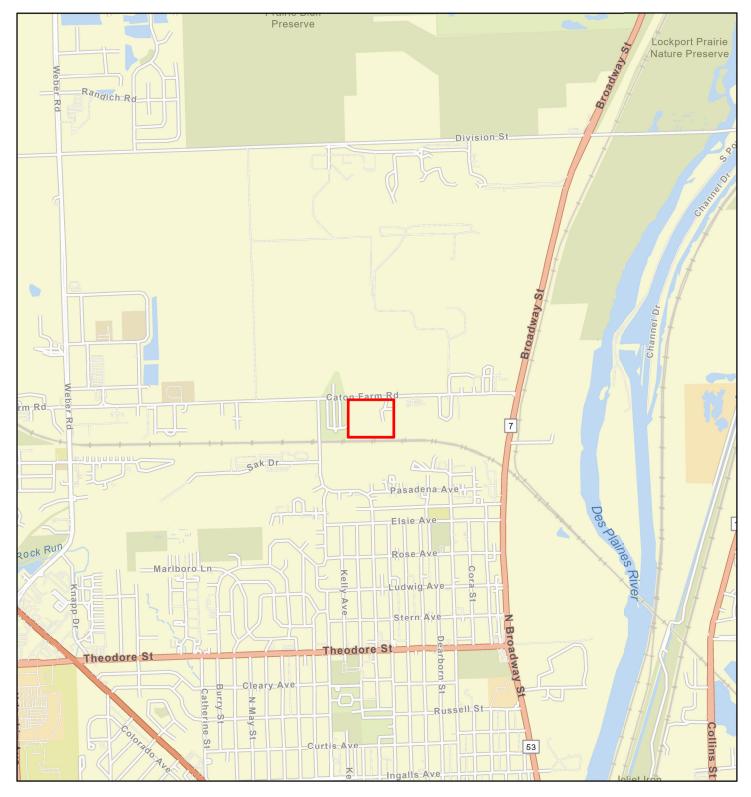
SEDIMENT AND EROSION CONTROL

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.

3



Scale: 1 inch = 2000 feet

Orientation:

Legend:



Project Site

Project Number: 25-0072

Date: 3/13/2025

Project Name:

Solar Ground Mount at Hendrickson USA

Prepared for:

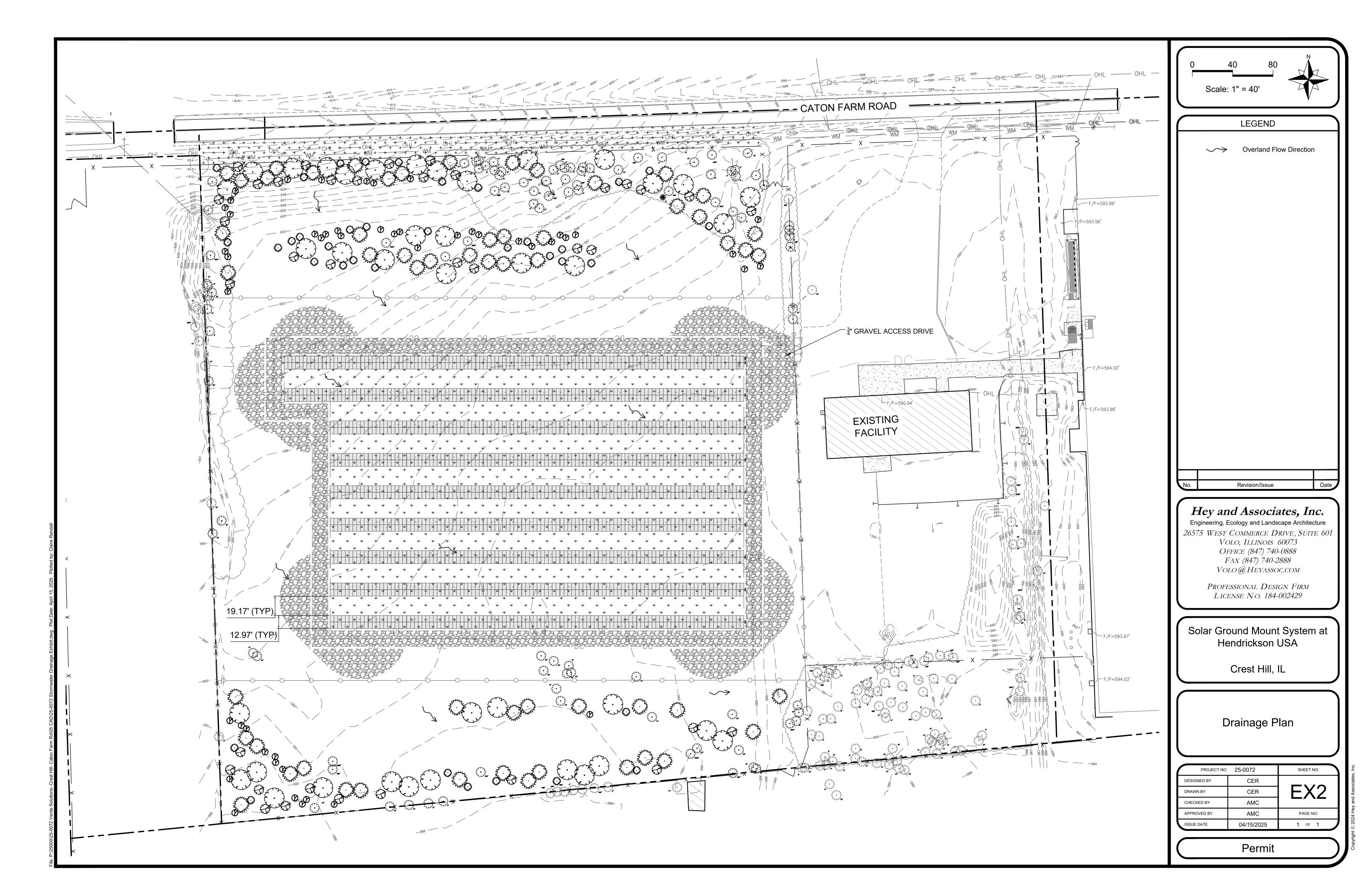
Verde Solutions

Exhibit Title:

Location Map

Exhibit:

1



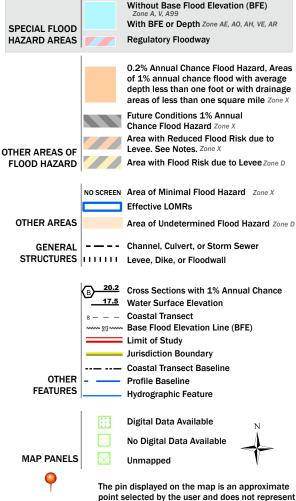
National Flood Hazard Layer FIRMette



Exhibit 3 - FEMA FIRMETTE

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap 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 time. The NFHL and effective information may change or become superseded by new data over time.

an authoritative property location.

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 unmapped and unmodernized areas cannot be used for regulatory purposes.



Appendix A

Plan Set

S 84°26'24" W 831.95

NORTH LINE OF LAND CONVEYED IN BOOK 661, PAGE 564 AS DOCUMENT #419036

LIST OF POSSIBLE ENCROACHMENTS

PIN #: 11-04-33-100-006 OWNER: COMMONWEALTH EDISON CO.

SEE SHEETS SUR-2 & SUR-3 FOR

TOPOGRAPHIC FEATURES

· 日本日本

88

— TOP OF (CURRINALL, E SPOT GRADE — BOTTON OF (CROUND,

MONITOR WELL

GAS VALVE

LEGEND UTILITY POLE TYPICAL SIGN MAILBOX

SOIL BORING TELCO/ELEC MANHOLE - HANDRAIL

CONTOUR LINE
CONTOUR LINE
EDGE GRAVEL/STONE
FENCE LINE
FLARED END SECTION
STORM SEWER
SANITARY SEWER
COMBO SEWER
WATER SERVICE LINE
WATER MAIN
OVERHEAD LINE
FIBER OPTIC LINE
GAS LINE

SCALE: 1" = 50"

BAR SCALE

BASIS OF BEARINGS IS TRUE NORTH BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM, ILLINOIS EAST 1201 ZONE.

⊕_{SB} ①©

______ GUARDRAIL

4' WIRE FENCE-

BUILDING CORNER IS

TO THE SURVEYOR'S KNOWLEDGE, BASED ON FIELD EVIDENCE AND PROVIDED DOCUMENTATION, THERE ARE NO ENCROACHMENTS ONTO ADJOINING PROPERTY. STREETS OR ALLEYS OR ANY EASEMENTS BURDENING THE LEASE AREA BY ANY BUILDINGS, STRUCTURES, OR OTHER IMPROVEMENTS.

THERE ARE ALSO NO ENCROACHMENTS ONTO THE LEASE AREA OR EASEMENTS BENEFITING THE SURVEYED PROPERTY BY BUILDINGS, STRUCTURES, OR OTHER IMPROVEMENTS SITUATED ON ADJOINING PROPERTIES.

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 OFFICE.
EASEMENT FALLS IN RIGHT OF WAY.

> STATE OF ILLINOIS COUNTY OF COOK

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN INIS 3 TO CENTIF THAT THIS WAR OF FLATAND THE SORVELLOW MADE IN A SCORDANCE WITH THE 2021 MINIMUM STANDARD BETAIL REQUIREMENTS FOR ALTA/ANSP LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 3, 8A, 7A, 8, 9, 11A, 13, 14, AND 16 OF TABLE "A" THEREOF. THE FIELD WORK WAS COMPLETED ON 12/4/2024.

GIVEN UNDER MY HAND AND SEAL THIS _____ DAY OF ___ AT HOFFMAN ESTATES, ILLINOIS.

PRELIMINARY 2/7/2025

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

LIENT

LIENT

LIENT

HENDRICKSON USA 501 CATON FARM ROAD CREST HILL, ILLINOIS

GROUP

SUR-1 SHEET 1 OF 3

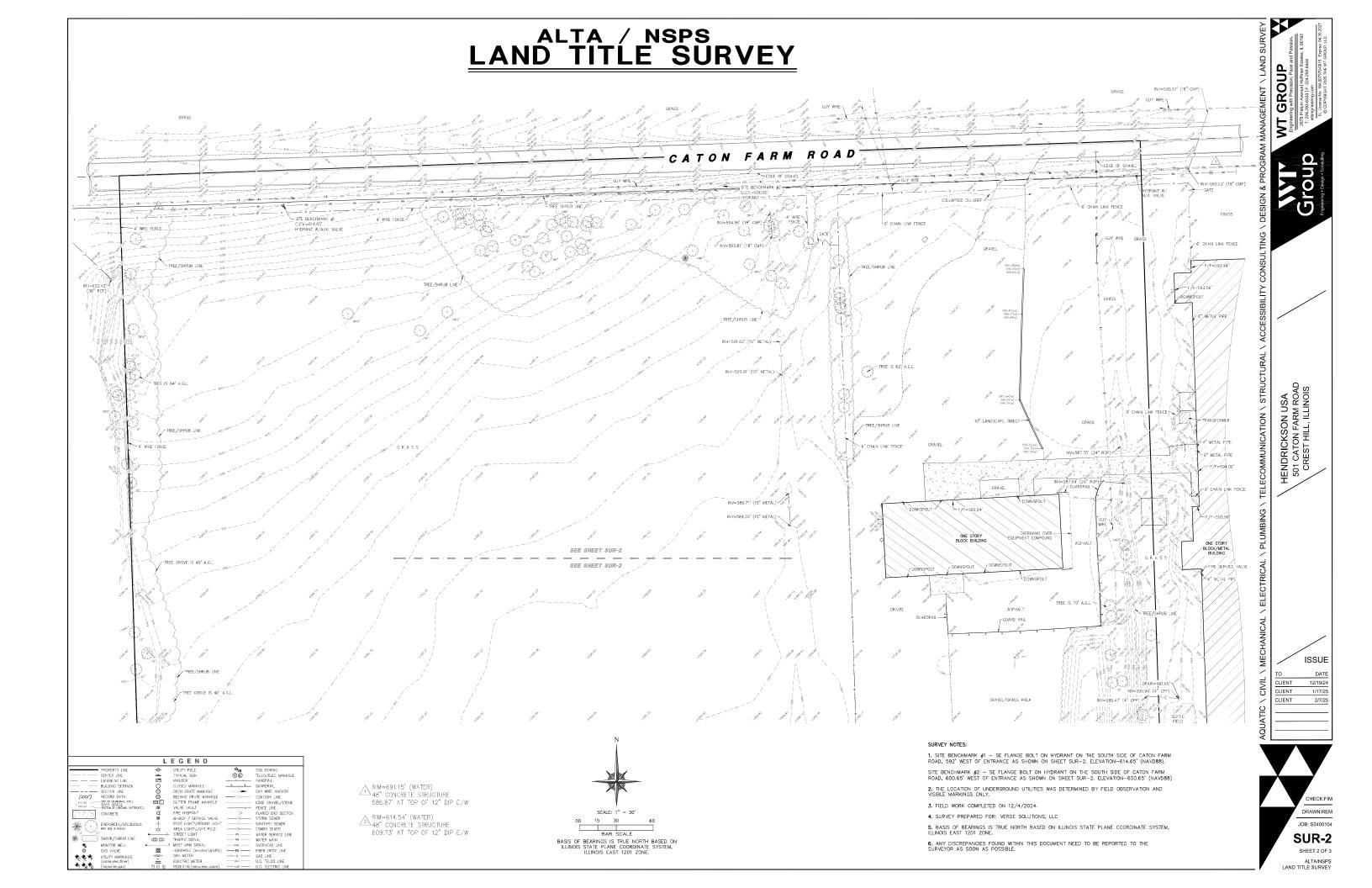
ISSUE

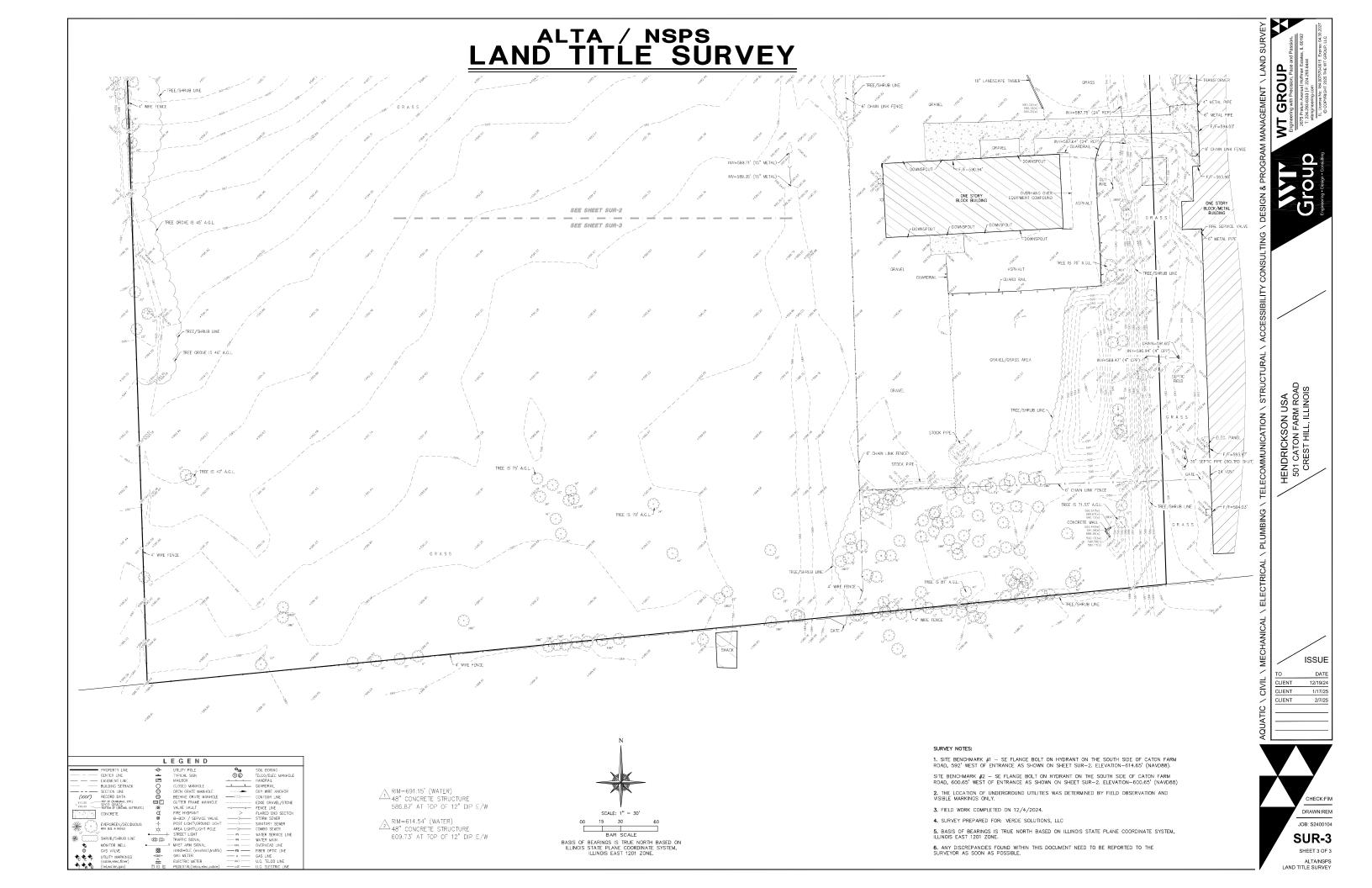
12/19/2

1/17/25

2/7/2

CHECK:FIM DRAWN:REM JOB: S2400104





PLAT OF SURVEY

SPACECO UAV **AERIAL IMAGE** DATE OF FLIGHT: 03/19/2024

PROPERTY DESCRIPTION:

BY QUIT-CLAIM DEED RECORDED IN SAID RECORDER'S OFFICE AS DUCUMENT 40-VIDO, WHICH FOUR WEST FROM THE EAST LIKE OF SAID NORTHWEST TO QUARTER MEASURED PERPENDICULARLY THEREFURE OF TABLE OF THE ASSOCIATION OF THE SAID THE SOUTHEAST CORNER OF SAID TRACT OF LAIND CONVEYED BY DOCUMENT 7 SOUTHEAST CORNER IS ON THE EAST LIKE OF SAID WEST LIVES A FEET AND THECK INFORTH ALO, LIKE OF SAID TRACT CONVEYED BY DOCUMENT 75-202 AND ALONG SAID EAST LIKE OF THE WEST AS DISTANCE OF 65.50-FEET TO THE WEST AS DISTANCE OF 65.50-FEET TO THE PLACE OF BEGINNING, IN WILL COUNTY, LIKINGS.

THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT. IT IS POSSIBLE THAT ADDITIONAL EASEMENTS, RESTRICTIONS OR OTHER ENCLMBRANCES EXIST OVER THE PROPERTY THAT HAVE NOT BEEN SHOWN HEREON.

BEARINGS SHOWN HEREON ARE BASED ON NAD83 ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE (2011 ADJUSTMENT) AND NAVD88 (GEOID 12B) UTILIZING GNSS EQUIPMENT AND TOPNETLIVE RTK NETWORK. LAST DATE OF FIELD WORK: APRIL I, 2024

PROPERTY SURVEYED: 1,072,114 SQ. FT. OR 24.612 ACRES MORE OF LESS.

P.I.N: II-04-33-I00-002-0000 (PARCEL 2) II-04-33-I00-003-0000 (PARCEL I)



LEGEND CACTO BASIN'
NILET
FLARED FAID SEPROM
ELECTRIC MANANCE
TELEPHONE MANANCE
TELEPHONE WITH EMBORIT
ELECTRIC UPRISHT
FIRE HYDRAIT
VALVE AND VALUT
WATER MAVE
B BOX
AUX_BY VALVE
GAS WILVE ASPHALT COMORETE GRAVEL

__ * ___ * ___

STATE OF ILLINOIS)
) SS
COUNTY OF GRUNDY)

WE, SPACECO, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001157, DO HEREBY DECLARE THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED IS A TRUE AND CORRECT REPRESENTATION OF SAID SURVEY.

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS OF PRACTICE APPLICABLE TO BOUNDARY SURVEYS.

20

(VALID ONLY IF EMBOSSED SEAL AFFIXED)

COMPARE ALL DIMENSIONS BEFORE BUILDING AND REPORT ANY DISCREPANCIES AT ONCE, REFER TO DEED OR TITLE POLICY FOR BUILDING LINES AND EASEMENTS.

GIVEN UNDER OUR HAND AND SEAL THIS 2ND DAY OF APRIL, 2024 IN MORRIS, ILLINOIS.

CONSULTING ENGINEERS SITE DEVELOPMENT ENGINEERS

LAND SURVEYORS 224 % N. Liberty Street, Morris, Illinois 60450 Phone: (815) 941-0260 Fax: (815) 941-0263

SOLAR GROUND MOUNT SYSTEM AT HENDRICKSON USA

501 CATON FARM RD, LOCKPORT, IL 60441







SYSTEM PLAN

TOTAL SYSTEM SUMMARY:

TOTAL DC SYSTEM SIZE:

1,185.24 kWDC

TOTAL AC SYSTEM SIZE: 900.00/947.700 kWAC/KVA

MODULE MANUFACTURER: JINKO SOLAR

(1,992) JKM595N-72HL4-BDV (QTY) MODULE TYPE 1:

MODULE TILT:

180° MODULE AZIMUTH:

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 PY ARRAY:

INSTALL SOLAR MODULES AND RACKING SYSTEM ON GROUND LEVEL.

INSTALL INVERTERS AND ELECTRICAL DISTRIBUTION EQUIPMENT.

INTERCONNECT AT EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT.

DEVELOPER:



2211 N ELSTON AVE SUITE 208 CHICAGO, IL 60614

ENGINEERED BY:



111 RIVER STREET, SUITE 1110 HOBOKEN, NEW JÉRSEY 07030

DRAWING	INDEX
GENERAL	

GENER	KAL			1	11	
G001	TITLE SHEET	•	•	•		
ELECT	RICAL					/
E001	ELECTRICAL NOTES & SYMBOLS LIST		•	•		
E100	OVERALL ELECTRICAL PLAN	•	•	•		
E101	AC ELECTRICAL PLAN		•	0		
E200	DC ELECTRICAL PLAN		•	0		
E300	ONE LINE DIAGRAM	•	•	0		
E310	SCHEDULES & CALCULATIONS		•	0		
E410	GROUNDING DETAILS		•	•		
E420	ELECTRICAL DETAILS		•	0		
E500	LABELS & SIGNAGE		•	0		
E600	EQUIPMENT DATA SHEETS		•	0		
E601	EQUIPMENT DATA SHEETS		•	О		

LEGEND:	
UPDATED DRAWING ISSUED	
UNCHANGED, PREVIOUSLY ISSUED DRAWING STILL CURRENT	\Box
DRAWING REMOVED FROM SET	

TITLE SHEET

G001

- 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 OCPDS. THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING COMPONENTS: COMBINER BOX, TERMINAL BOX, INVERTER, AC AND DC SWITCH, TRANSFORMER, AND SWITCHGEST
- TRANSFORMER, AND SWITCHGEAR.
 HAND HOLES, PULL BOXES, OR CONDUIT BODIES SHALL BE INSTALLED (WHETHER OR NOT SHOWN ON DRAWINGS) WHEN THE RACEWAY HAS MORE THAN 360' OF BENDS, OR AS NECESSARY TO NOT EXCEED MANUFACTURER'S MAXIMIM. CABLE PILLING TENSION. SWITCHBOARDS AND SWITCHGEARS SHALL BE PROVIDED WITH TEMPORARY INTERNAL HEATERS DURING LONG TERM STORAGE WHILE NOT ENFERGIED 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 COMPLIES WITH NEC 312.8 PRIOR TO INSTAL

7. GROUNDING
7.A. THE CONTRACTOR SHALL FURNISH AND INSTALL GROUNDING NECESSARY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

- IESTS
 ALL TESTS SHALL BE PERFORMED BY TRAINED TECHNICIANS CERTIFIED TO DO THE PROCEDURES.

 THE PROCEDURES OF THE OWNER'S THE PROCEDURE OF THE OWNER'S TH

- 8.A. ALL TESTS SHALL BE PERFORMED BY TRAINED TECHNICIANS CERTIFIED TO DO THE PROCEDURES.

 8.B. FINAL TESTS AND INSPECTIONS SHALL BE HELD IN THE PRESENCE OF THE OWNER'S REPRESENTATIVES AND TO THEIR SATISFACTION.

 8.C. ALL APPLICABLE TESTS SHALL BE PERFORMED IN ACCORDANCE WITH NETA/ANSI ATS—2021 STANDARDS AND PRACTICES.

 8.D. ALL APPLICABLE TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

 8.E. ALL TESTS SHALL BE PERFORMED PRIOR TO ENERGIZATION.

 8.F. TESTING IS LIMITED TO NEW EQUIPMENT RELATED TO THIS PROJECT.

 8.G. IV CURVE TRACES OF STRINGS SHALL BE CENERATED THOUGH THE INVERTER PORTAL. TESTING TO BE PERFORMED DURING SHALD BE CENERATED THROUGH THE INVERTER PORTAL. TESTING TO BE PERFORMED DURING APPROVED WEATHER CONDITIONS.

 8.H. OPEN—CIRCUIT VOLTAGE (VOC) MEASUREMENTS SHALL BE PERFORMED ON ALL DC STRING CIRCUITS DURING APPROVED WEATHER CONDITIONS.

 8.I. ALL PV CONNECTORS MATED TOGETHER SHALL BE CONFIRMED TO BE OF THE SAME MAKE/MODEL.

 8.J. INSULATION TESTS SHALL BE PERFORMED ON ALL STRING AND FEEDER AC CIRCUIT CABLES.

 8.L. INSULATION TESTS SHALL BE PERFORMED ON ALL STRING AND FEEDER AC CIRCUIT CABLES.

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 8.L. INSULATION TESTS SHALL BE

GENERAL NOTES

- THE GENERAL NOTES APPLY TO ALL DRAWINGS UNDER THE CONTRACT. REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL NOTES.

 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.

 PRESONAL PROTECTIVE FOUNDMENT (PRE) SHALL HE REPOWLED AS REQUIRED IN ACCORDANCE.
- 4. PERSONAL PROTECTIVE EQUIPMENT (PPE) SHALL BE PROVIDED AS REQUIRED IN ACCORDANCE WITH NFPA 70E AND OSHA REQUIREMENTS.
- WITH NEPA JUE 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.

<u>LEGEND — GENERAL</u>										
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									

	<u>LEGEND - CIRCUITS</u>										
SYMBOL	DESCRIPTION										
_xxxx	ABOVE-GROUND CABLE										
-xxxx- 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										
F0	FIBER OPTIC										

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

SYMBOL CIRCUIT BREAKER, FRAME SIZE AND TRIP SETTING AS NOTED DISCONNECT SWITCH DISCONNECT SWITCH INVERTER BUSS CONNECTION POINT CROSSING POINT (NO CONNECTION) TO NORMALLY CLOSED - NORMALLY OPEN CONTACTS TRANSFORMER CONTROL/POWER, SIZE AND RATING AS NOTED CURRENT TRANSFORMER FUSE, SIZE/RATING AS NOTED FUSED DISCONNECT SWITCH EARTH GROUND BATTERY KEYED INTERLOCK (KIRK KEY OR EQ.) SHUNT TRIP COIL; MOTORIZED CLOSE SURGE ARRESTOR METER METE		LEGEND - ONE LINE DIAGRAM & WIRING DIAGRAM SYMBOLS
DISCONNECT SWITCH INVERTER BUSS CONNECTION POINT CROSSING POINT (NO CONNECTION) TO	SYMBOL	DESCRIPTION
INVERTER H BUSS CONNECTION POINT CROSSING POINT (NO CONNECTION) H T NORMALLY CLOSED - NORMALLY OPEN CONTACTS TRANSFORMER CONTROL/POWER, SIZE AND RATING AS NOTED CURRENT TRANSFORMER POTENTIAL TRANSFORMER FUSE, SIZE/RATING AS NOTED FUSED DISCONNECT SWITCH EARTH GROUND BATTERY K KEYED INTERLOCK (KIRK KEY OR EQ.) SHUNT TRIP COIL; MOTORIZED CLOSE SURGE ARRESTOR M METER	- ←	CIRCUIT BREAKER, FRAME SIZE AND TRIP SETTING AS NOTED
BUSS CONNECTION POINT CROSSING POINT (NO CONNECTION) The content of the content	\ \ -	DISCONNECT SWITCH
CROSSING POINT (NO CONNECTION) The content transformer control/power, size and rating as noted Current transformer Fuse, size/rating as noted Fuse disconnect switch Earth ground Earth ground Earth ground Shunt trip coil; motorized close Surge arrestor Meter	<u> </u>	INVERTER
NORMALLY CLOSED - NORMALLY OPEN CONTACTS TRANSFORMER CONTROL/POWER, SIZE AND RATING AS NOTED CURRENT TRANSFORMER POTENTIAL TRANSFORMER FUSE, SIZE/RATING AS NOTED FUSED DISCONNECT SWITCH EARTH GROUND EARTH GROUND BATTERY KEYED INTERLOCK (KIRK KEY OR EQ.) SHUNT TRIP COIL; MOTORIZED CLOSE SURGE ARRESTOR METER	+	BUSS CONNECTION POINT
TRANSFORMER CONTROL/POWER, SIZE AND RATING AS NOTED CURRENT TRANSFORMER POTENTIAL TRANSFORMER FUSE, SIZE/RATING AS NOTED FUSED DISCONNECT SWITCH EARTH GROUND BATTERY K KEYED INTERLOCK (KIRK KEY OR EQ.) SHUNT TRIP COIL; MOTORIZED CLOSE SURGE ARRESTOR M METER	+ +	CROSSING POINT (NO CONNECTION)
CURRENT TRANSFORMER POTENTIAL TRANSFORMER FUSE, SIZE/RATING AS NOTED FUSED DISCONNECT SWITCH EARTH GROUND BATTERY KEYED INTERLOCK (KIRK KEY OR EQ.) STOCO SHUNT TRIP COIL; MOTORIZED CLOSE SURGE ARRESTOR M METER	* +	NORMALLY CLOSED - NORMALLY OPEN CONTACTS
POTENTIAL TRANSFORMER FUSE, SIZE/RATING AS NOTED FUSED DISCONNECT SWITCH EARTH GROUND BATTERY KEYED INTERLOCK (KIRK KEY OR EQ.) SHUNT TRIP COIL; MOTORIZED CLOSE SURGE ARRESTOR METER	₩,	TRANSFORMER CONTROL/POWER, SIZE AND RATING AS NOTED
FUSE, SIZE/RATING AS NOTED FUSED DISCONNECT SWITCH EARTH GROUND BATTERY KEYED INTERLOCK (KIRK KEY OR EQ.) STOCO SHUNT TRIP COIL; MOTORIZED CLOSE SURGE ARRESTOR METER		CURRENT TRANSFORMER
FUSED DISCONNECT SWITCH FUSED DISCONNECT SWITCH EARTH GROUND BATTERY KEYED INTERLOCK (KIRK KEY OR EQ.) SHUNT TRIP COIL; MOTORIZED CLOSE SURGE ARRESTOR METER	∃⊱	POTENTIAL TRANSFORMER
EARTH GROUND BATTERY K KEYED INTERLOCK (KIRK KEY OR EQ.) SHUNT TRIP COIL; MOTORIZED CLOSE SURGE ARRESTOR M METER		FUSE, SIZE/RATING AS NOTED
BATTERY (K) KEYED INTERLOCK (KIRK KEY OR EQ.) (ST) (CL) SHUNT TRIP COIL; MOTORIZED CLOSE SURGE ARRESTOR (M) METER	->	FUSED DISCONNECT SWITCH
KEYED INTERLOCK (KIRK KEY OR EQ.) SHUNT TRIP COIL; MOTORIZED CLOSE SURGE ARRESTOR METER	Ŧ	EARTH GROUND
KEYED INTERLOCK (KIRK KEY OR EQ.) SHUNT TRIP COIL; MOTORIZED CLOSE SURGE ARRESTOR METER	=	BATTERY
SURGE ARRESTOR M METER		KEYED INTERLOCK (KIRK KEY OR EQ.)
M METER	(S) (C)	SHUNT TRIP COIL; MOTORIZED CLOSE
	B	SURGE ARRESTOR
N NEUTRAL BUS	M	METER
	N	NEUTRAL BUS
G GROUND BAR	G	GROUND BAR

A	DESCRIPTION AMPERES
AERMS	ARC ENERGY REDUCING MAINTENANCE SYSTEM
AF	AMPERE FRAME
A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
AFDI AIC	ARC FAULT DETECTION & INTERRUPTER AMPS INTERRUPTING CAPACITY
AL	AMPS INTERROPTING CAPACITY ALUMINUM
AT	ALOMINOM AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	CIRCUIT BREAKER
С	CONDUIT
CB	COMBINER BOX
CKT	CIRCUIT
CL	CLOSE CONDITIONS OF USE
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
CU	COPPER
DAS	DATA ACQUISITION SYSTEM
DB	DIRECT BURIAL
DISC	DISCONNECT
EGC ELEC	EQUIPMENT GROUNDING CONDUCTOR ELECTRIC, ELECTRICAL
EMERG	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
EQUIP	EQUIPMENT
EV	ELECTRIC VEHICLE
EVCS	ELECTRIC VEHICLE CHARGING STATION
G, GND	GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER
GFPE	GROUND-FAULT PROTECTION OF EQUIPMENT
HID H7	HIGH-INTENSITY DISCHARGE (LIGHTING)
HZ IMC	HERTZ INTERMEDIATE METAL CONDUIT
kAIC	1000 AMPS INTERRUPT CAPACITY
kCMIL	1000 CIRCULAR MILS
kVA	KILO-VOLT AMPERE
kW	KILOWATT
LA	LIGHTNING & SURGE ARRESTOR
LED	LIGHT-EMITTING DIODE
LSIG	LONG, SHORT, INSTANTANEOUS, & GROUND-FAULT
LTG	LIGHTING
MCM MFG	1000 CIRCULAR MILS MANUFACTURER
MLO	MANUFACTURER MAIN LUGS ONLY
MLPE	MODULE LEVEL POWER ELECTRONICS
MPPT	MAXIMUM POWER POINT TRACKING
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NTS	NOT TO SCALE
OH	OVERHEAD
OV	OVER VOLTAGE
P	POLE PACTOR
PF DIC	POWER FACTOR
PLC POA	PROGRAMMABLE LOGIC CONTROLLER PLANE OF ARRAY
POI	POINT OF INTERCONNECTION
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
RAC	RIGID ALUMINUM CONDUIT
RCPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL CONDUIT
RMC	RIGID METAL CONDUIT
SA	SURGE ARRESTOR
SEC SPD	SECONDARY SURGE PROTECTION DEVICE
SSBJ	SUPPLY SIDE BONDING JUMPER
ST	SHUNT TRIP
STP	SHIELDED TWISTED PAIR
SW	SWITCH
TBD	TO BE DETERMINED
TP	TWISTED PAIR
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UV	UNDER VOLTAGE OR ULTRAVIOLET
	VOLT
٧	VOLT-AMPERE
V VA	
V VA W	WATT
V VA	

ABBREVIATIONS

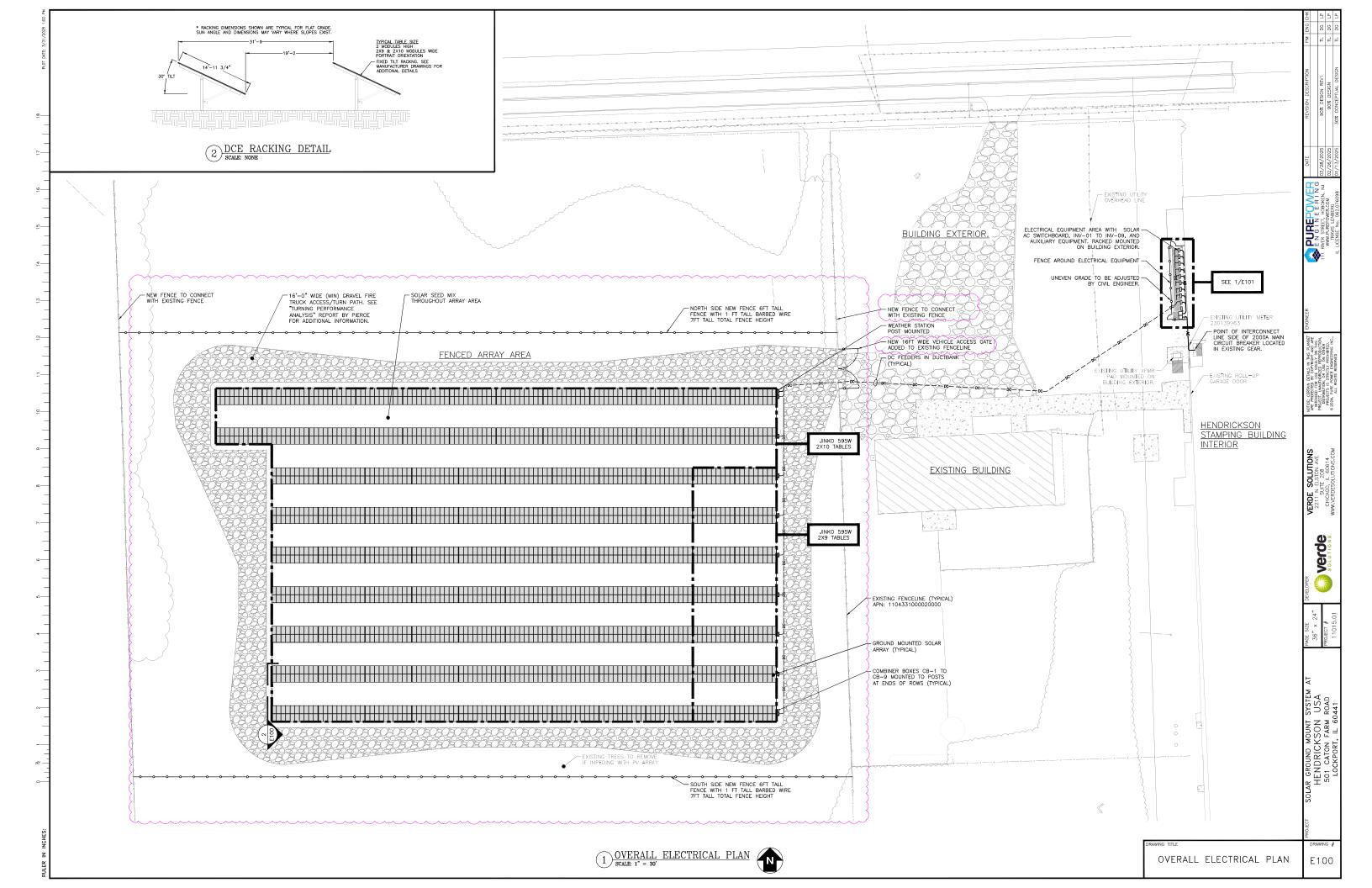
ELECTRICAL NOTES & SYMBOLS LIST

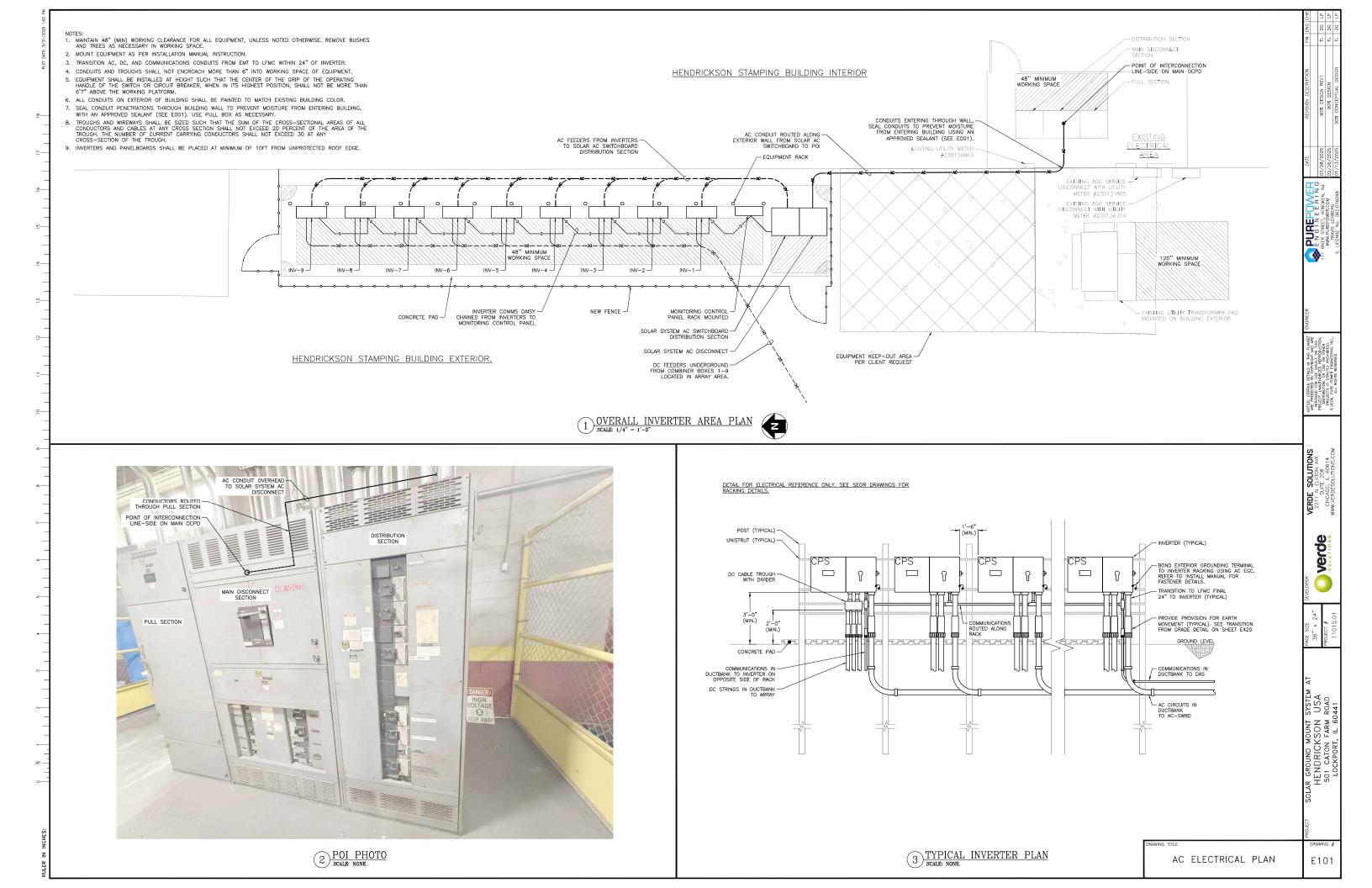
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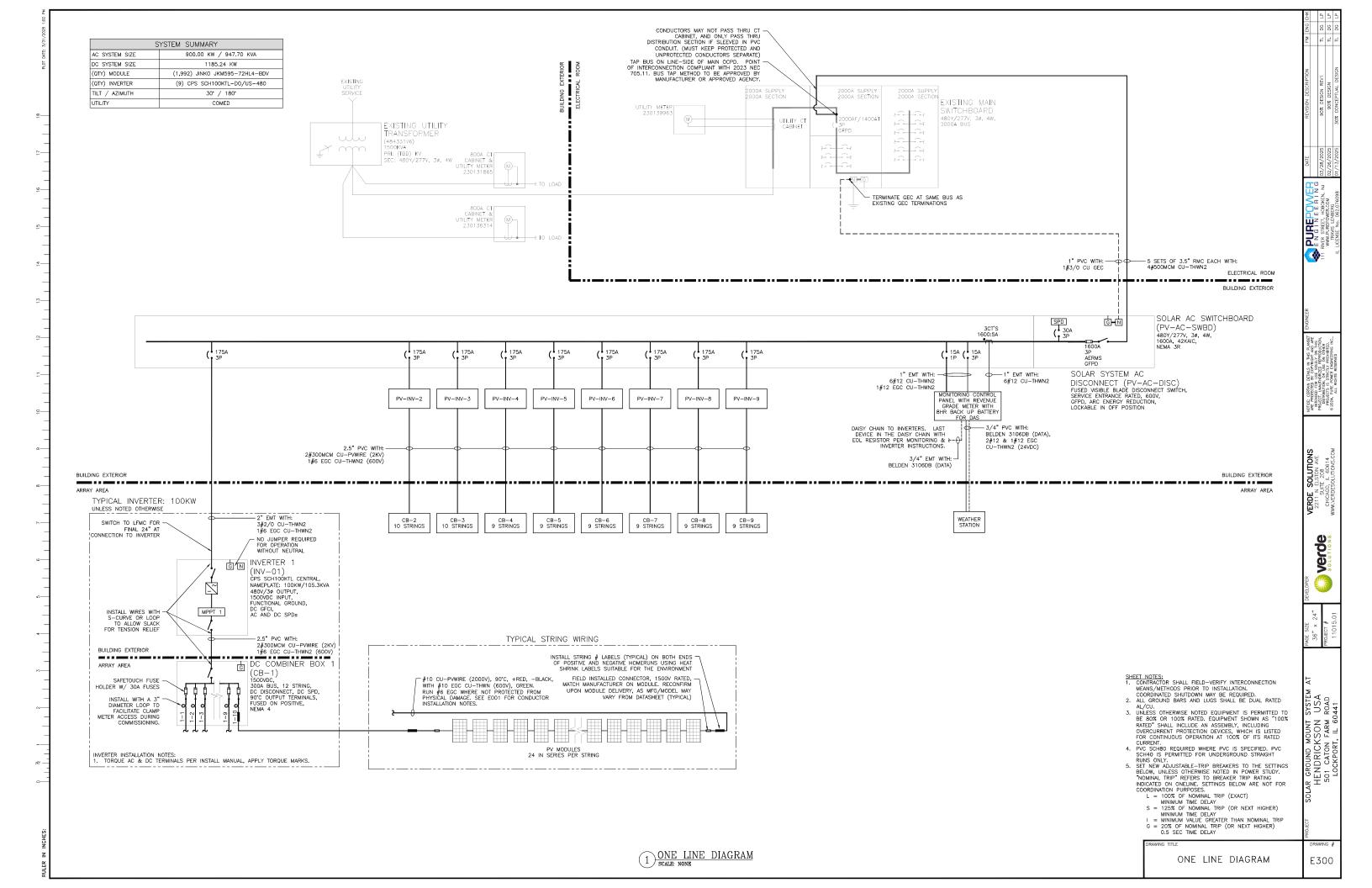
ARE PROTECT INTENDED F INTENDED F PROJECT, UN DISTRIBUT PROJECTS

Verde





STRING SUMMARY STRING NAME PER STRING 1-1 24 1-2 24 1-3 24 1-4 24 1-5 24 1-6 24 1-7 24 1-8 24 1-9 24 1-10 24 2-1 24 2-2 24 2-3 24 2-4 24 2-5 24 2-6 24 2-7 24 2-8 24 2-9 24	8-5 24 8-6 24 8-7 24 8-8 24 8-9 24 9-1 24 9-2 24 9-3 24 9-5 24 9-6 24 9-7 24 9-9 24 TOTAL 1992									TABLE ASSL PV SOURCE STRING WRI	WITH ALLOWANCE FOR CONDUIT TRADE SIZE 3/4" 1" 1.25" 1.5" 2" 2.5" 3" 3.5" 4" MING: ANY CONDUIT TYPE AND CU CIRCUIT (SIMULATED) WITH 17.15A NO NOTE:	(PVWIRE, 2000VDC MAX) OF CU #10 PV WIRES. NA ADDITIONAL GROUND WIRE) ENGTH 24" OR LESS (60% FILL) 3	REPOWER DATE REVISION DESCRIPTION PM ENG CI N E R N G M M M M M M M M M
2-10 24 3-1 24 3-2 24 3-3 24 3-4 24 3-5 24 3-6 24 3-7 24		1-5(24)		1-4(24)		1-3(24)		1-2(24)		1-10(24)			PURE E N G I N 8 111 RVER STREET, WWW.PURPOWN TRANS LEMPS
3-8 24 3-9 24 4-1 24 4-2 24 4-3 24 4-4 24 4-5 24		2-5(24)		2-4(24)		2-3(24)		2-2(24)		2-10(24)	B CB-2		S IN THIS PLANSET ENGINEER SOLETY ON THIS TO PRESENT AND ARE SOLETY ON THIS SEC AND OTHER SEC AND OTHER SEC AND OTHER SEC AND SEC AND OTHER SEC AND SE
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5-3 24 5-4 24 5-5 24 5-6 24 5-7 24 5-8 24 5-9 24			4 5(24)	4-4(24)		4-7(24)	• •	4-2(24)		4-9(24)	CB-4		VERDE SOLUTIONS 2211 IN ELSTON AVE 2215 IN ELSTON AVE CHACAGO, IL 60614 WWW.VERDESOLUTIONS.COM
5-9 24 6-1 24 6-2 24 6-3 24 6-4 24 6-5 24 6-6 24		 		5-4(24)									
6-7 24 6-8 24 6-9 24 7-1 24 7-2 24 7-3 24			6-5(24)	6-4(24)		6-3(24)-6-7(24)-	• •	6-2(24)		6-9(24)	CB-6		DEVELOPER SOLUTIONS
7-4 24 7-5 24 7-6 24 7-7 24 7-8 24 7-9 24			7-5(24)	7-4(24)		7-3(24)	•	7-2(24)		7-1(24)	CB-7		PAGE SIZE 36" x 24" PROJECT # 11015.01
8-1 24 8-2 24 8-3 24 6-4 24				8-4(24)							CB-8		INT SYSTEM AT ON USA RM ROAD 60441
			9-5(24)	9-4(24)		9-3(24)		9-2(24)		9-1(24)	В СВ-9		EDT SOLAR GROUND MOUNT SYSTEM HENDRICKSON USA 501 CATON FARM ROAD 1 OCKPORT II 61441
2			DR AS	IMPORTANT NTRACTOR MUST REDLINE AWINGS TO REFLECT EXACT —BUILT STRINGING AND RETURN PURE POWER.	1 DC SCALE	ELECTRICAL P	LAN N		2-3	LABEL KEY STRING # INVERTER #		DC ELECTRICAL PLAN	DRAWING #



	AC CIRCUIT CALCULATIONS																				
EQUIPMENT SUPPLIED	FED FROM	VOLTAGE	FULL LOAD AMPS (FLA)	FLA x 1.25	OCPD SIZE [A]	CONDUIT TYPE	CONDUIT SIZE	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	C.O.U. DERATE CONDUIT FILL	FEEDER LENGTH (ONE-WAY) [FT]	SEGMENT VOLTAGE DROF AT FLA	TOTAL VOLTAGE DROP AT FLA	
DLAR 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%	- 1
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 CALCULATIONS																					
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]	FEEDER VOLTAGE DROP
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	0.6%
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	0.7%
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	0.7%
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	0.7%
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	0.8%
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	0.8%
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	0.9%
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	1.0%
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	1.0%

INVERTERS 1-9

/	AVERAGE	DC	VOLT	AGE	DROP	FROI	И
>	COMBINER	B(DXES	TO	INVERT	ERS:	0.92%

SAM SIMULATED VALUES				
MAXIMUM CURRENT [A]	17.15			
MAXIMUM VOLTAGE [V]	1408.76			
THE STRING MAX CURRENT IS CAL				

THE STRING MAX CURRENT IS CALCULATED BY SYSTEM ADVISOR MODEL SIMULATION PROGRAM PROVIDED BY THE NATIONAL RENEWABLE ENERGY LABORATORY, REFERENCE SAND 2004—3535, PHOTOVOLTAIC ARRAY PERFORMANCE MODEL, AS ALLOWABLE BY NEC 690.8(A)(1)(2), THE CALCULATED CURRENT IS 97.1% OF THE VALUE USING 690.8(A)(1)(1).

MODULE SPEC	CIFICATIONS	
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 (W	EATHER STATION NAME)	
ASHRAE HIGH [℃]	29.9	
ASHRAE LOW [℃]	-23.5	
ELEVATION (m)	201	
STRING SPECIFICA	ATIONS AT STC	
MODULES/STRING	24	
POWER [W]	14280	
STRING ISC [A]	14.13	
STRING IMP [A]	13.43	
STRING VMP [V]	1063.44	

INVERTERS '	1-9	INV	ERTERS	1-5	INVERTERS 6-9		
STRING WIRE GAUGE DC IMPEDANCE [OHM/KFT] OPERATING VOLTAGE [VDC]	10AWG-CU 1.2900 1063	STRING NUMBER	TOTAL STRING DISTANCE [FT]	STRING VOLTAGE DROP	STRING NUMBER	TOTAL STRING DISTANCE [FT]	STRING VOLTAGE DROP
OPERATING CURRENT	17.2	1-1	55	0.23%	6-1	55	0.23%
[AMP]	1712	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 VO	DLTAGE 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%			

INVERTERS 6-9

INVERTERS 1-5

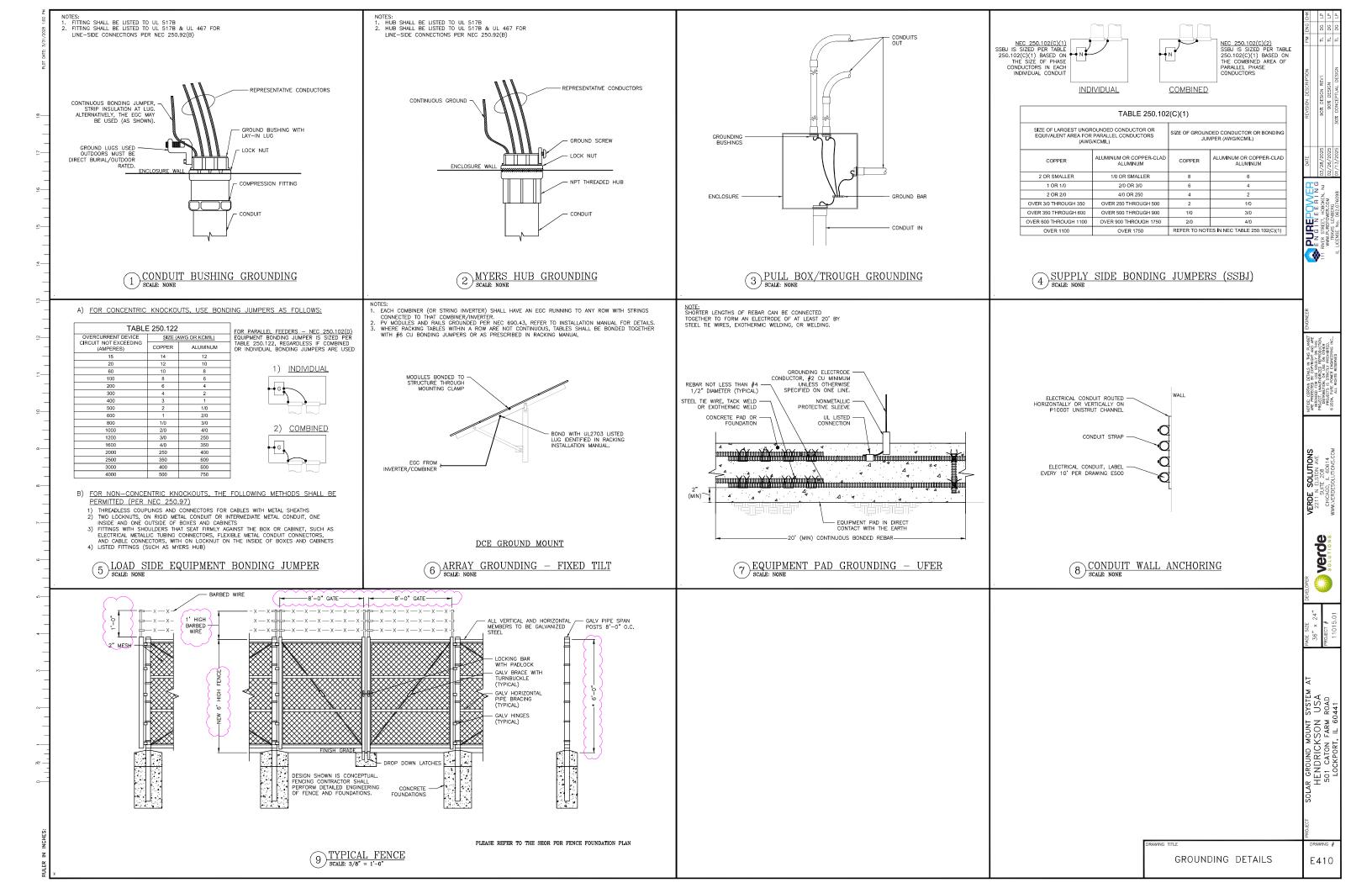
5-7 235 0.98% 5-8 145 0.61% 5-9 55 0.23% SHEET NOTES:

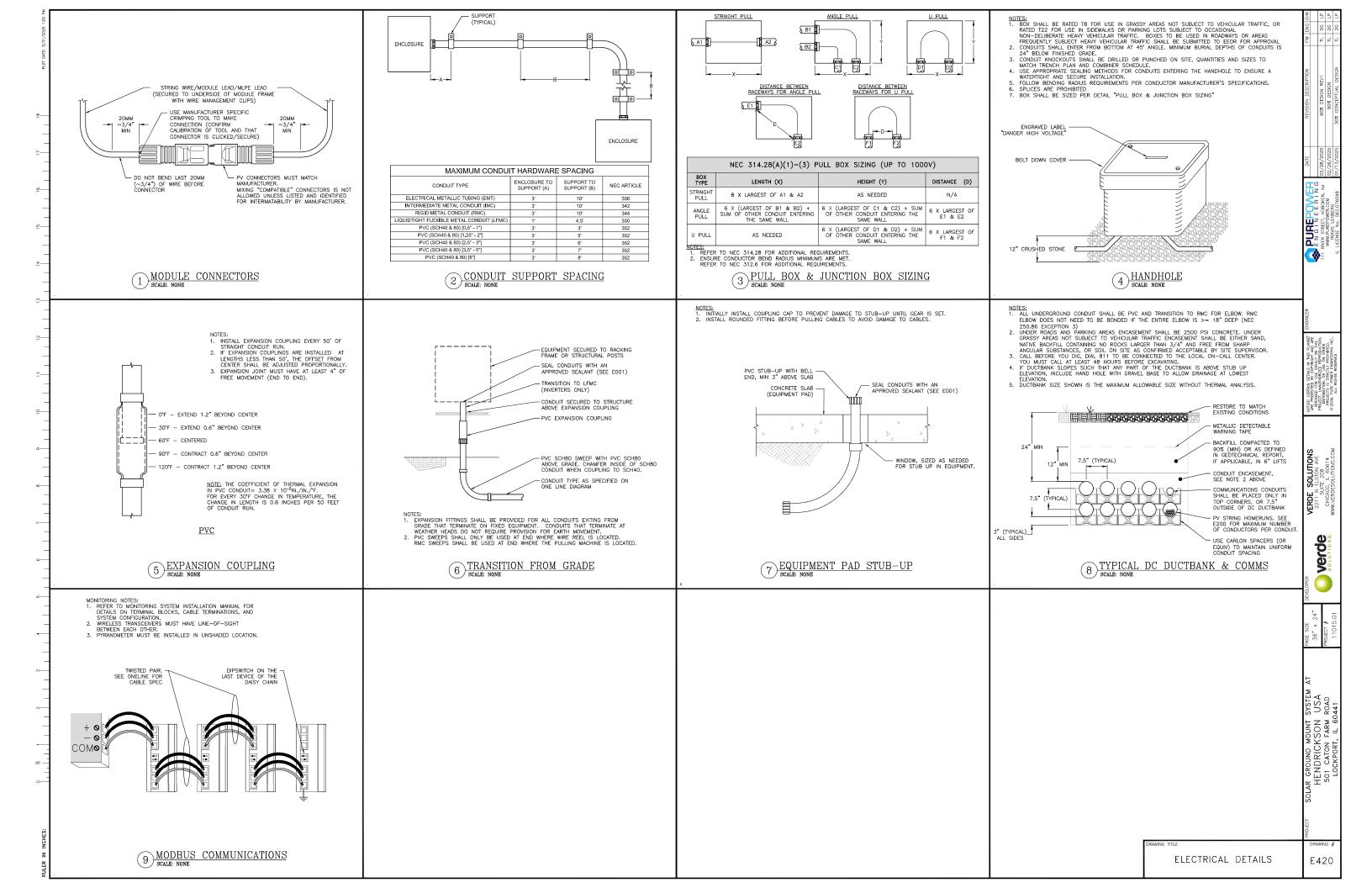
1. DISTANCES ARE ONE-WAY ESTIMATES GENERATED FOR ENGINEER'S CALCULATIONS, CONTRACTOR IS RESPONSIBLE FOR OWN MEASUREMENTS AND TAKEOFFS.

RAWING TITLE

SCHEDULES & CALCULATIONS

TIONS E310





GENERAL NOTES FOR LABELS:

1. LABEL SCALE 1:2 UNLESS NOTED

2. LETTERING ON SIGNS SHALL BE CAPITAL LETTERS

3. CLEARLY LABEL ALL CIRCUIT BREAKERS IN SUBPANEL(S) / PANELBOARD(S) / SWITCHBOARD(S). THE LABEL SHALL INDICATE THE NAME OF THE DEVICE IT SERVES. USE LABEL FORMAT 5.

4. ALL LABELS SHALL BE OUTDOOR RATED. BACKGROUND COLOR TEXT HEIGHT TITLES (3/8") ALL OTHER TEXT (5/32") FORMAT 1 ENGRAVED MELAMINE TITLES (3/8") ALL OTHER TEXT (5/32") FORMAT 2 ENGRAVED MELAMINE WHITE BLACK FORMAT 3 REFLECTIVE UV RATED RED AT LEAST (3/8") TITLES (5/32") ALL OTHER TEXT (3/32") FORMAT 4 ENGRAVED MELAMINE RED (3/8") FORMAT 5 VINYL FILM WHITE BLACK TITLES (3/8" FORMAT 6 ENGRAVED MELAMINE ORANGE BLACK ALL OTHER TEXT (5/32") $\underline{\text{PER}}$ 2023 NEC 690.31(B)(2): PV SYSTEM CIRCUIT CONDUCTORS SHALL BE IDENTIFIED AT ALL ACCESSIBLE POINTS OF TERMINATION, CONNECTION, AND SPLICES. STRING HOMERUNS AT ARRAY
DC INPUT TERMINALS OF COMBINER BOX
DC OUTPUT TERMINALS OF COMBINER BOX
DC INPUT TERMINALS OF INVERTER
AC OUTPUT TERMINALS OF INVERTER
AC INPUT & OUTPUT TERMINALS OF ACH SUCCESSIVE DEVICE
(WHERE APPLICABLE) CIRCUIT BREAKER AND SWITCH LABELS:
UNLESS LABELED OTHERWISE, ALL CIRCUIT BREAKERS AND SWITCHES
SHALL BE LABELED WITH THE NAME OF THE EQUIPMENT IT IS SUPPLYING. 1 NOTES AND FORMATS SWITCHBOARD(S) COMBINER(S)





INSTALL LABEL ON:

• ALL DC EXPOSED RACEWAYS, CABLE TRAYS, PULL BOXES, AND JUNCTION BOXES. BUXES.
FORMAT: 3
CODES: NEC 690.31(D)(2), NFPA 11.12.2.1.3
NOTES: HELLERMANNTYTON #: 596-00206
OR EQUAL, LABELS SHALL BE PERMANENTLY
AND SPACED NO GREATER THAN 10 FEET
APART.

DANGER HIGH VOLTAGE PV MAIN DISCONNECT FORMAT: WHITE TEXT ON BLUE BACKGROUND CODES: NFPA1 11.12.2.1.5 NOTES: FILL WITH SITE O&M PROVIDER'S CONTACT NEODMATCH. CONFIDER

NSTALL LABEL ON:

ALL CABLE TRAYS CONTAINING CONDUCTORS OPERATING OVER 600 VOLTS.

COMBAIL 3

CODES: NEC 392.18(H).

NOTES: LABELS SHALL BE PERMANENTLY AFFIXED AND SPACED NO GREATER THAN 10 FEET APART.

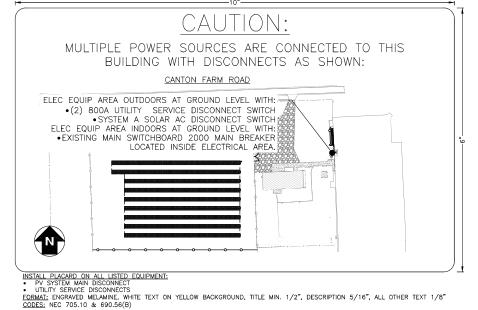


INSTALL LABEL ON:

• ALL EQUIPMENT NOT OTHERWISE LABELED IN POWER STUDY
FORMACT: 1.1 SCALE
NOTES: OUTDOOR RATED STICKER.

INFORMATION. CONFIRM INFO WITH PROJECT OWNER.

(2) GENERAL SIGNAGE



(3) DIRECTORY LABEL

DISCONNECT(S)/ BREAKER(S)

INVERTER(S)

MONITORING/AUXILIARY

MONITORING PANEL INSTALL LABEL ON:
 NAMED EQUIPMENT

WEATHER STATION INSTALL LABEL ON:

NAMED EQUIPMENT

SOLAR AC SWITCHBOARD WARNING: SUPPLIED BY UTILITY & PV SOURCES. OPERATING CURRENT: 1140.3A OPERATING VOLTAGE: 480V DO NOT CONNECT NON-SOLAR LOADS TO THIS PANEL INSTALL LABEL ON:

NAMED EQUIPMENT FORMAT: 2

COMBINER BOX X WARNING: ELECTRIC SHOCK HAZARD DC DISCONNECT MAXIMUM VOLTAGE: INSTALL LABEL ON:

COMBINERS CB 1-CB 9 FORMAT: 2 CODES: NEC 690.7(D)

SOLAR SYSTEM DISCONNECT SWITCH WARNING: PHOTOVOLTAIC POWER SOURCE. OPERATING CURRENT: NOMINAL VOLTAGE:

INSTALL LABEL ON:

NAMED EQUIPMENT FORMAT: 2 CODES: NEC 690.54 & 705.10, NFPA 11.12.2.1.1

INVERTER X DC AC DISCONNECT DISCONNECT MAXIMUM AC OPERATING CURRENT: 126.7A NOMINAL AC OPERATING VOLTAGE: 480V MAXIMUM VOLTAGE: 1500V

FORMAT: 2 CODES: NEC 690.7(D), NFPA 11.12.2.1.1

Verde

PURE STREET,

E500

LABELS & SIGNAGE

(4) EQUIPMENT LABELS

100 kW, 1500 Vdc/480 Vac String Inverters for North America



CPS SCH100KTL-DO/US-480

The 100 kW high power CPS three-phase string invertees are designed for ground-mount applications with 480 Vac service voltage. The units are high performance, advanced, and reliable invertees designed specifically for the North American environment and grid. High efficiencies, wide operating voltages, broad tempeartuer ranges, and a NRM Type AK consolure enable this inverteer platform to operate at high performance across many applications. The CPS 100 kW products ship with the Distributed or Centralized Wire Box, each fully integrated and separable with AC and DC disconnect switches. The Erhanced DC Wire Box includes touch-safe fusing for up to 20 strings. The CPS FlexOM solution enables communication, controls and remote product upgrades.

- NFPA 70 and NEC compliant ■ Touch-safe DC fuse holders adds convenience and safety
- CPS FlexOM Gateway enables remote firmware upgrades
 Integrated AC and DC disconnect switches
- 1 MPPT with 20 fused inputs for maximum flexibility ■ Copper- and aluminum-compatible AC connections



FC This device complex with

 Separable wire box design for fast service Enhanced DC wire boxes available

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

■ kVA headroom yields 100 kW @ 0.95 PF ■ Generous DC/AC inverter load ratios

NEMA Type 4X outdoor rated, tough tested enclosu

Advanced Smart-Grid features (CA Rule 21 certified)

Multi Busbar Half Cell Technology

KEY FEATURES

EAGLE

DEPENDABLE

SOLAR PRODUCT

EAGLE® G6B 580-600 WATT • N-TYPE BIFACIAL Positive power tolerance of 0~+3%



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

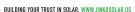




Industrial Grade Construction

Protected Against All Environments

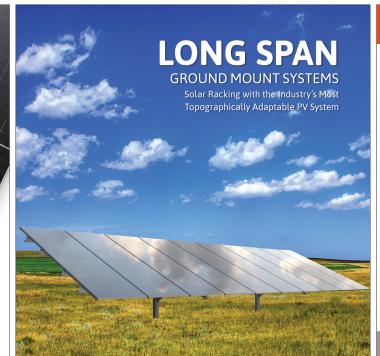




BUILDING YOUR TRUST IN SOLAR, WWW.JINKOSOLAR US



JinKO



Elevating the Future of Solar



LONG SPAN

Structural Components

All above ground members are constructed from G115 galvanized steel with ground penetrating components from G235 or better.





TECHNICAL SPECI	TECHNICAL SPECIFICATIONS			
Wind Load	90 - 150 MPH *			
Snow Load	0 - 70 PSF *			
Leading Module Height	18" - 60" MAX			
Tilt Angle	5° - 35°			
Module Suitability				
Panel Orientation	Portrait (2H x 12W) *			
Warranty	20 years			
	Wind Load Snow Load Leading Module Height Tilt Angle Module Suitability Panel Orientation			



LONG SPAN

Most advanced table based racking solution with the DCE Long **Span Racking System.**

- » Newly designed Long-Span pivot bracket allows for superior purlin adjustability
- » Integrated wire management & direct panel frame mounting & bonding
- » Driven Beam, ballast, or screw foundations accommodating all soil & site conditions
- » Structurally independent tables to diminish terrain challenges

HIGHER YIELD PER FOUNDATION Purlins spanning up to twelve panels in portrait orientation result in fewer foundations throughout the entire installation. More panels on each table with fewer posts installed reduce labor & material cost; compounding value per watt separated

PIVOT ADAPTER The uniquely designed pivot adapte elevates each one-point purlin connection to drastically improve every table's adaptability to challenging topography. The fully grounded rows can adjust to changes up to 20% grade.





INTEGRATED RONDING Each continuous row is bonded INTEGRATED WIRE MANAGEMENT The undersid INTEGRATED BONDING Each continuous row is bonded using serrated hardware, therefore only one ground is needed per row. No additional costly grounding components needed such as WEEBS and star washers, lowering material and installation costs. This reduces labor time, hardware, and cost for additional bonding components (Costfelia) and the components of the cost for additional bonding components.

DCE Solar delivers industry-leading racking products with unbeatable customer service. All Long Span solutions have been designed to minimize grading, lower foundation costs, and facilitate greater energy performance.

DCE Solar is a market leader in industrial grade solar mounting and consulting. DCE designs, engineers, and manufactures the leading product line in the C&I and utility market. DCE continues to set the gold standard with innovative solutions created and perfected by a trademarked, worldclass engineering and support team.



19410 Jetton Road Suite 220 Cornelius, NC 28031 USA 704-659-7474 | info@dcesolar.com | www.dcesolar.com

20DC	Technical Da
UPS	Technical Da
Model Name	CPS SCH100KTL-DO/US-480
DC Input	
Max. DC input voltage	1500 Vdc
Operating DC input voltage range	750-1450 Vdc
Startup DC input voltage / power	900 Vdc / 200 W
Number of MPP trackers	1
MPPT voltage range @ PF > 0.991	760-1300 Vdc
Max. PV input current (Isc x 1.25)	275 A
Number of DC inputs	Distributed Wire Box: 20 PV source circuits, positive and negative fused Centralized Wire Box: 1 input circuit, 1-2 terminations per pole, non-fused
DC disconnection type	Load-rated DC switch
DC surge protection	Type II MOV (with indicator/remote signaling)
AC Output	
Rated AC output power	100 kW
Max. AC output power ²	100 kVA (105.3 kVA @ PF > 0.95)
Rated output voltage	480 Vac
Output voltage range ³	423-528 Vac
Grid connection type ⁴	3-Phase / PE / N (neutral optional)
Max. AC output current @ 480 Vac	120.3 A / 126.7 A
Rated output frequency	60 Hz
Output frequency range ³	57-63 Hz
Power factor	> 0.99 (±0.8 adjustable)
Current THD @ rated load	< 3%
Max. fault current contribution (1 cycle RMS)	41.47 A
Max. OCPD rating	200 A
AC disconnection type	Load-rated AC switch
AC surge protection	Type II MOV (with indicator/remote signaling)
System and Performance	
Topology	Transformerless
Max. efficiency	98.9%
CEC efficiency	98.0%
Standby / night consumption	< 4 W
Environment	
Enclosure protection degree	NEMA Type 4X
Cooling method	Variable speed cooling fans
Operating temperature range	-22°F to 140°F / -30°C to 60°C
Non-operating temperature range ⁵	-40°F to 158°F (-40°C to 70°C)
Operating humidity	0-100%
Operating altitude	8202 ft / 2500 m (no derating)
Audible noise	< 65 dBA @ 1 m and 77°F (25°C)
Display and Communication	
User interface and display	LED indicators, Wi-Fi and app
Inverter monitoring	Modbus RS485
Site-level monitoring	CPS FlexOM Gateway (1 per 32 inverters)
Modbus data mapping	SunSpec / CPS
Remote diagnostics / firmware upgrade functions	Standard / (with FlexOM Gateway)
Mechanical	
Dimensions (W × H × D)	Distributed Wire Box: $45.28 \times 24.25 \times 9.84$ in $(1150 \times 616 \times 250$ mm) Centralized Wire Box: $39.37 \times 24.25 \times 9.84$ in $(1000 \times 616 \times 250$ mm)
Weight	Inverter: 121 lbs (55 kg) Distributed Wire Box: 55 lbs (25 kg) Centralized Wire Box: 33 lbs (15 kg)
Mounting / installation angle	15-90 degrees from horizontal (vertical or angled)
mounting / installation angle	
AC termination	M10 stud type terminal [3Φ] (wire range: 1/0 AWG-500 kcmil CU/AL; lugs not supplied) Screw clamp terminal block [N] (#12-1/0 AWG CU/AL)
DC termination	Distributed Wire Box: Screw clamp fuse holder (wire range: #12-#6 AWG CU) Centralized Wire Box: Busbar, M10 bolts (wire range: #1 AWG-500 kcmil CU/AL [1 termination per pole], #1 AWG-300 kcmil CU/AL [2 terminations per pole], lugs not supplied)
Fused string inputs	Standard/Distributed Wire Boxes: 25 A fuses provided (fuse values up to 30 A acceptable) Enhanced DC Wire Boxes: 20 A fuses provided (fuse values up to 30 A acceptable)
Safety	
Certifications and standards	UL 1741-SA/SB Ed. 3, CSA-C22.2 NO.107.1-01, IEEE 1547-2018, FCC PART15
Selectable grid standard	IEEE 1547a-2014, IEEE 1547-2018 ⁶ , CA Rule 21, ISO-NE
Smart-grid features	Volt-RideThru, Freq-RideThru, Ramp-Rate, Specified-PF, Volt-VAR, Freq-Watt, Vol-Watt
Warranty	
Standard ⁷	S years

ENGINEERING DRAWINGS MECHANICAL CHARACTERISTICS Front Glass 2.0mm, Anti-Reflection Coating Pressure Rating 5400Pa (Snow) & 2400Pa (Wind)
Hailstone Test 45mm Hailstone at 30.7m/s TEMPERATURE CHARACTERISTICS -0.29%/°C -0.25%/°C Temperature Coefficients of Voc MAXIMUM RATINGS ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE PACKAGING CONFIGURATION BIFACIAL OUTPUT-REARSIDE POWER GAIN 5% Maximum Power (Pmax) 609Wp 614Wp 620Wp 625Wp 630Wp Module Efficiency (%) 23.57% 23.78% 23.98% 24.18% 24.39% 15% Maximum Power (Pmax) 667Wp 672Wp 679Wp 684Wp 699Wp Module Efficiency (%) 25.82% 26.05% 26.27% 26.49% 26.71% 25% Maximum Power (Pmax) 725Wp 731Wp 738Wp 744Wp 750Wp Module Efficiency (%) 28.06% 28.31% 28.55% 28.79% 29.03% WARRANTY 12-year product and 30-year linear power warranty ELECTRICAL CHARACTERISTICS STC NOCT STC NOCT STC NOCT 60 595Wp 448Wp 600Wp 452Wp 44.31V 41.36V 44.45V 41.52V 13.43A 10.84A 13.50A 10.89A 7 53.10V 50.44V 53.30V 50.63V Module Efficiency STC (%) 22.45% 22.65% 22.84%

Elevating the Future of Solar | Made in America

EQUIPMENT DATA SHEETS

E600

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!

- 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)

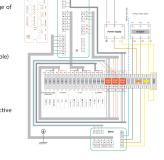
- 5 years of monitoring included (extensions available)
- Automated site commissioning report
- Up to 32 devices per Flex Gateway (no additional fees for each inverter connection)
- Site activation with "CPS Connect Pro" app (iOS and Android)
- Inverter on/off, remote arc-fault reset, PF and active power curtailment controls capability
- Remote CT reversal capability



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!

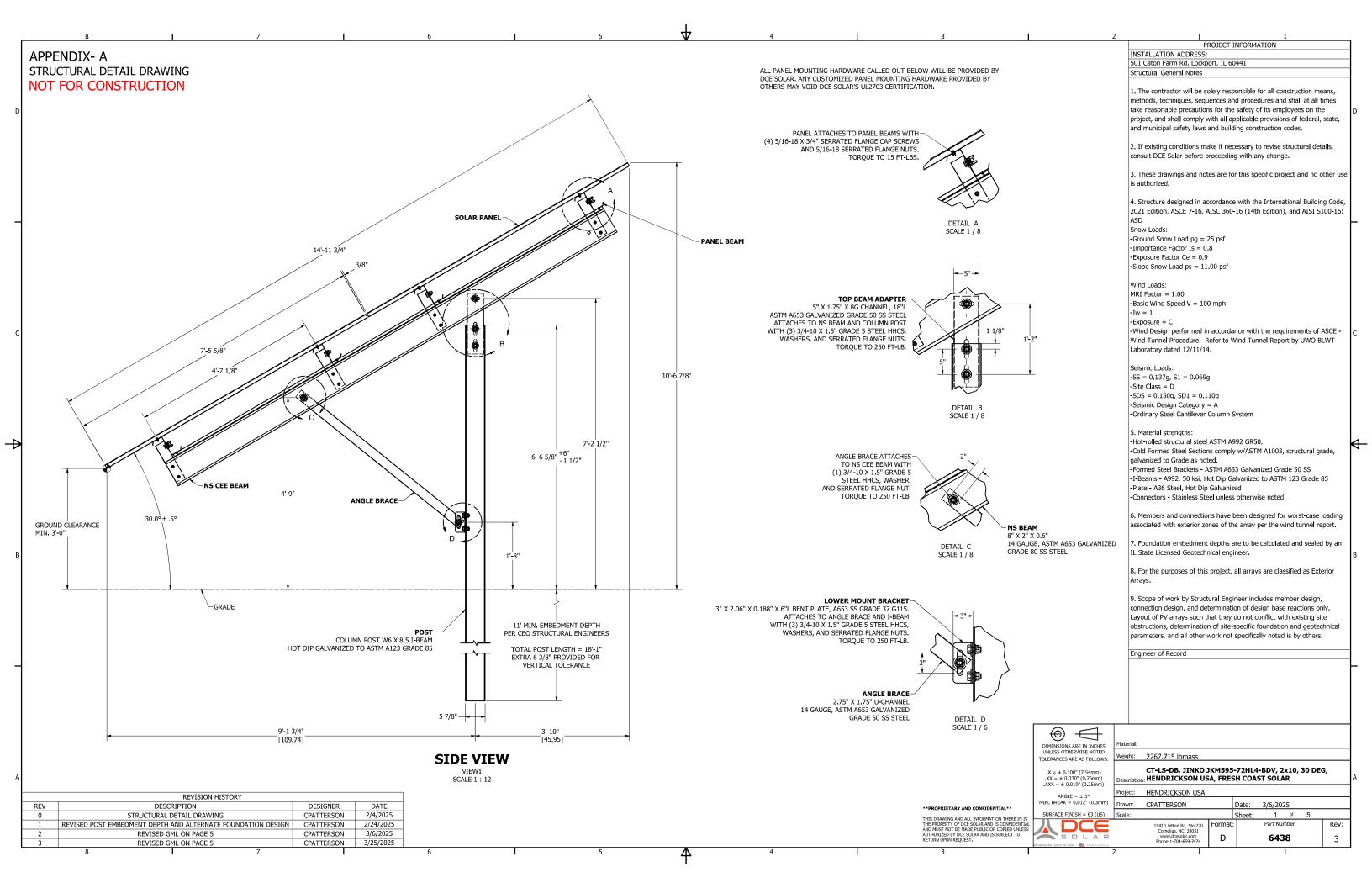
- Low-cost, complete hardware and software package
- Includes revenue-grade site-level meter (CTs not supplied, and must have output voltage of 0.333Vac at full scale)

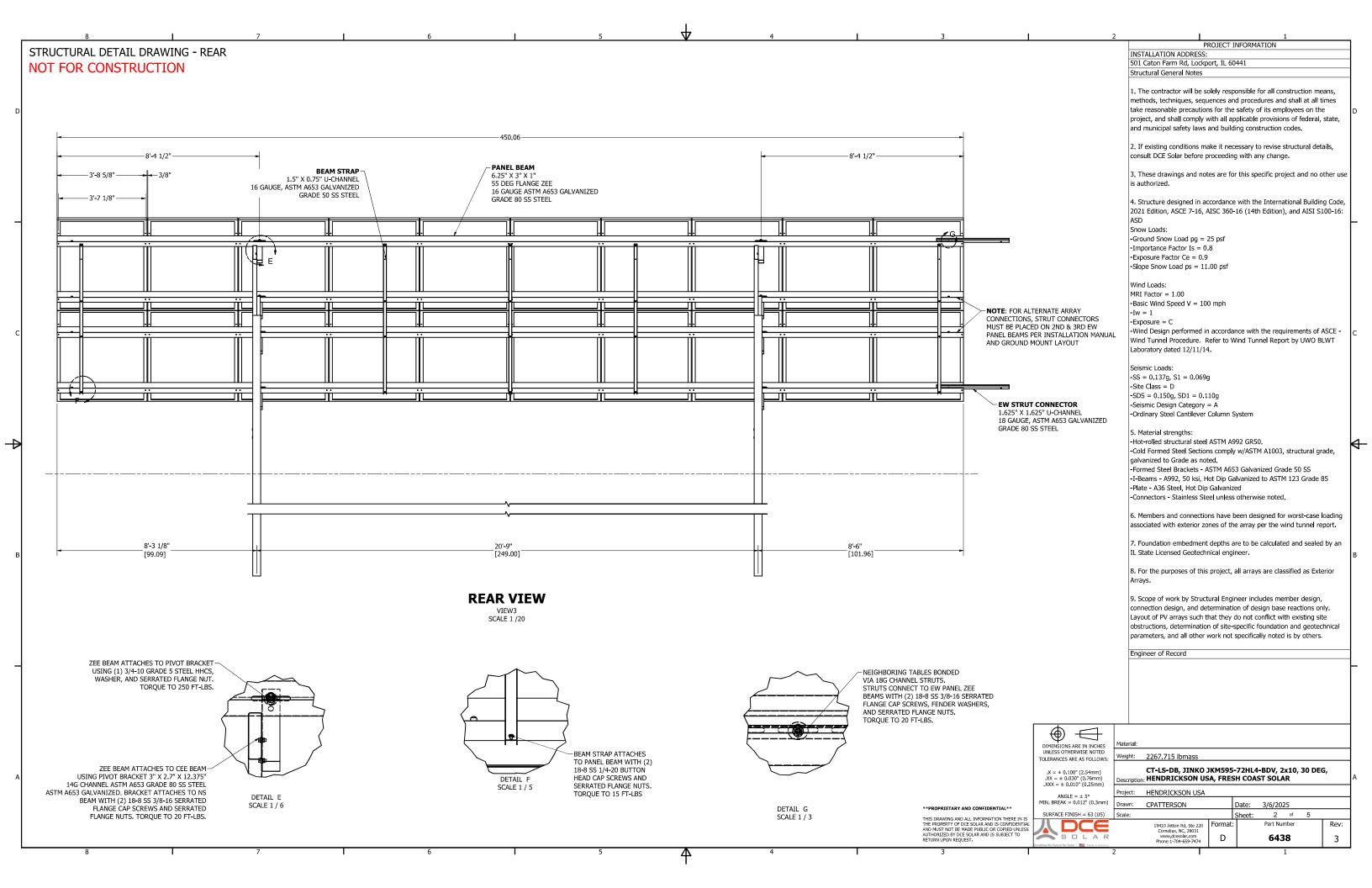
- 1- to 20-minute interval data (download up to 5 years of site data)
- 5 years of monitoring included (extensions available)
- Automated site commissioning report
- Up to 32 devices per Flex Gateway (no additional fees for each inverter connection)
- Site activation with "CPS Connect Pro" app (iOS and Android)
- Inverter on/off, remote arc-fault reset, PF and active power curtailment controls capability
- Remote CT reversal capability

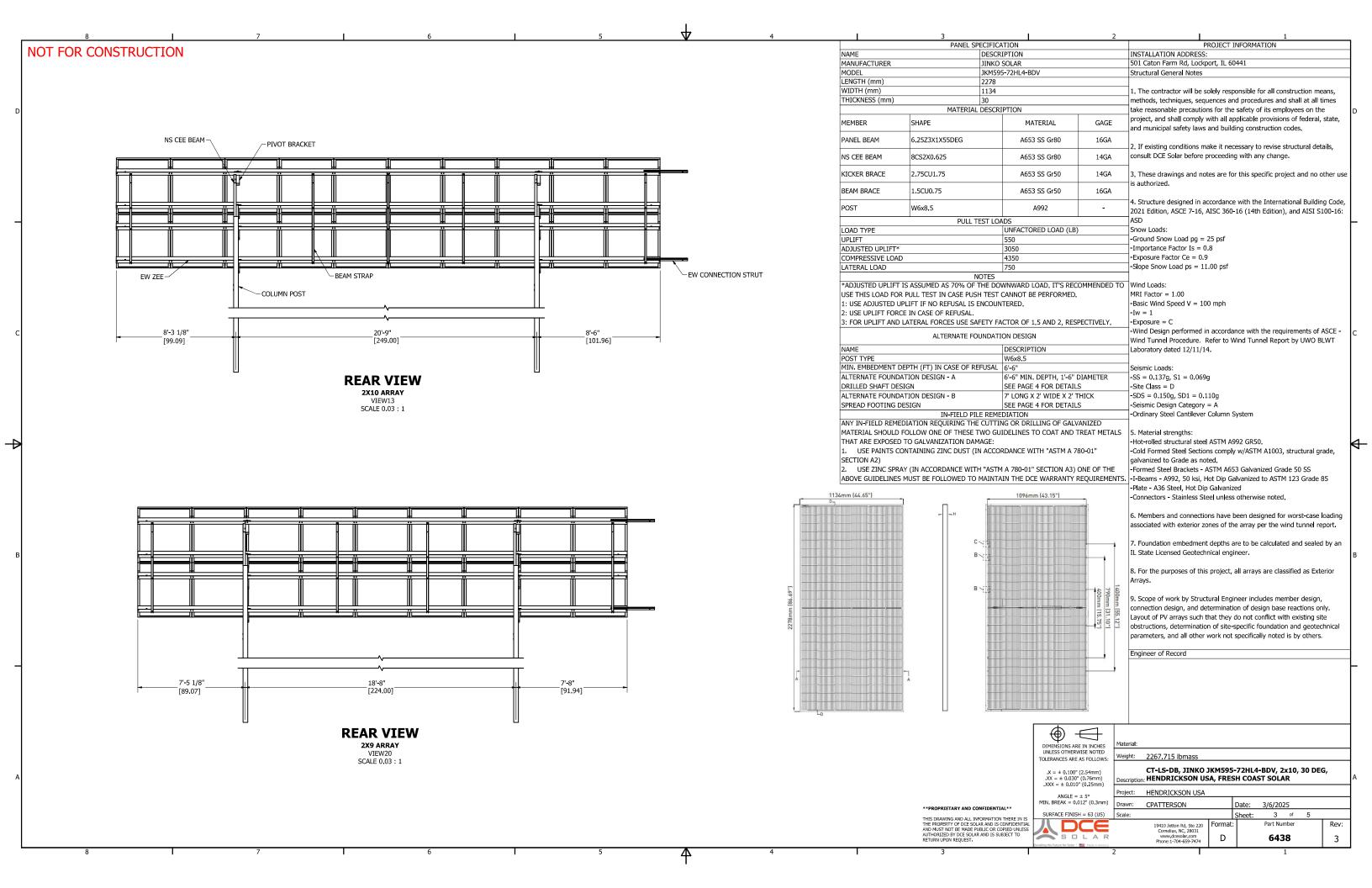


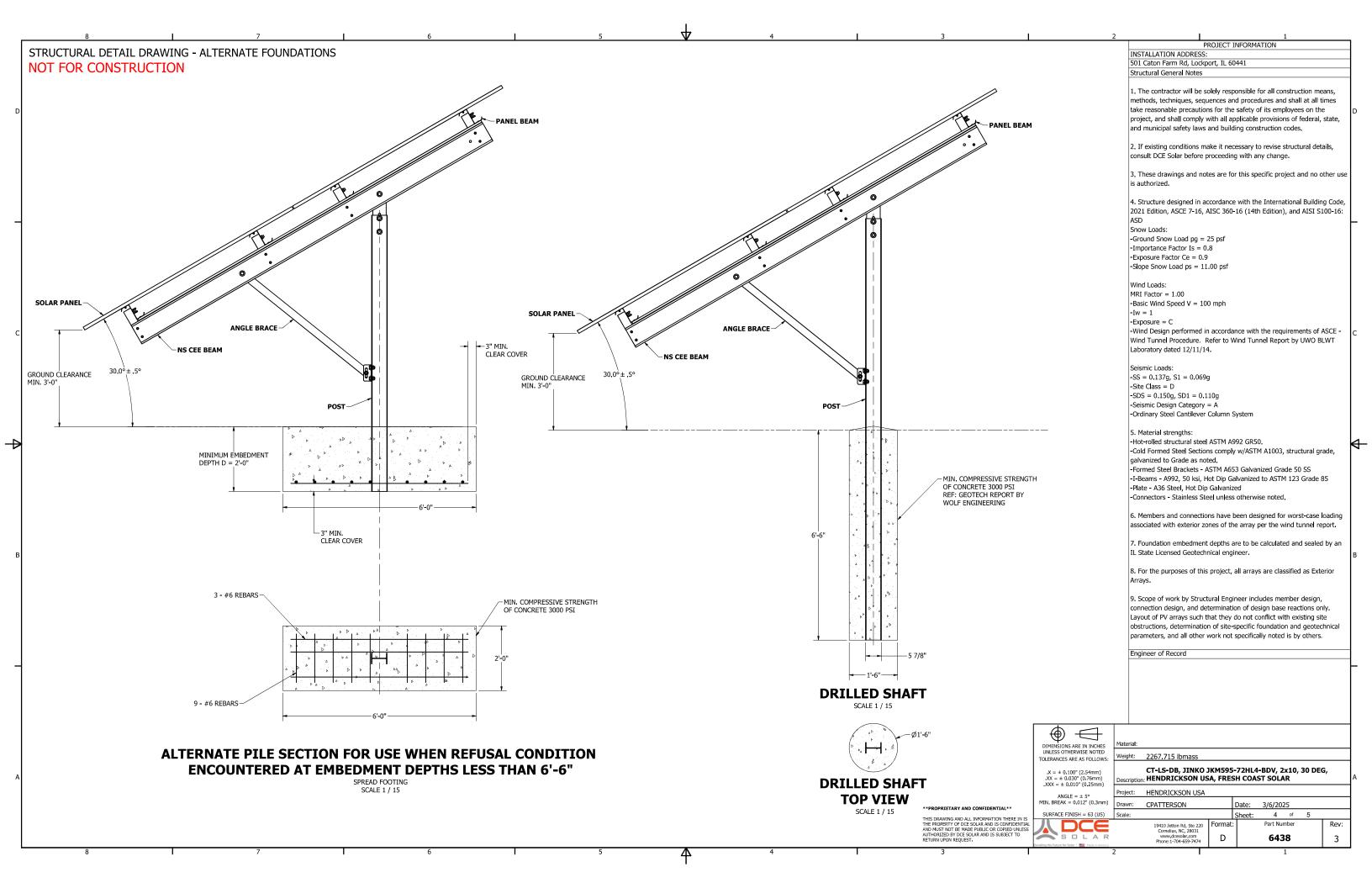
EQUIPMENT DATA SHEETS

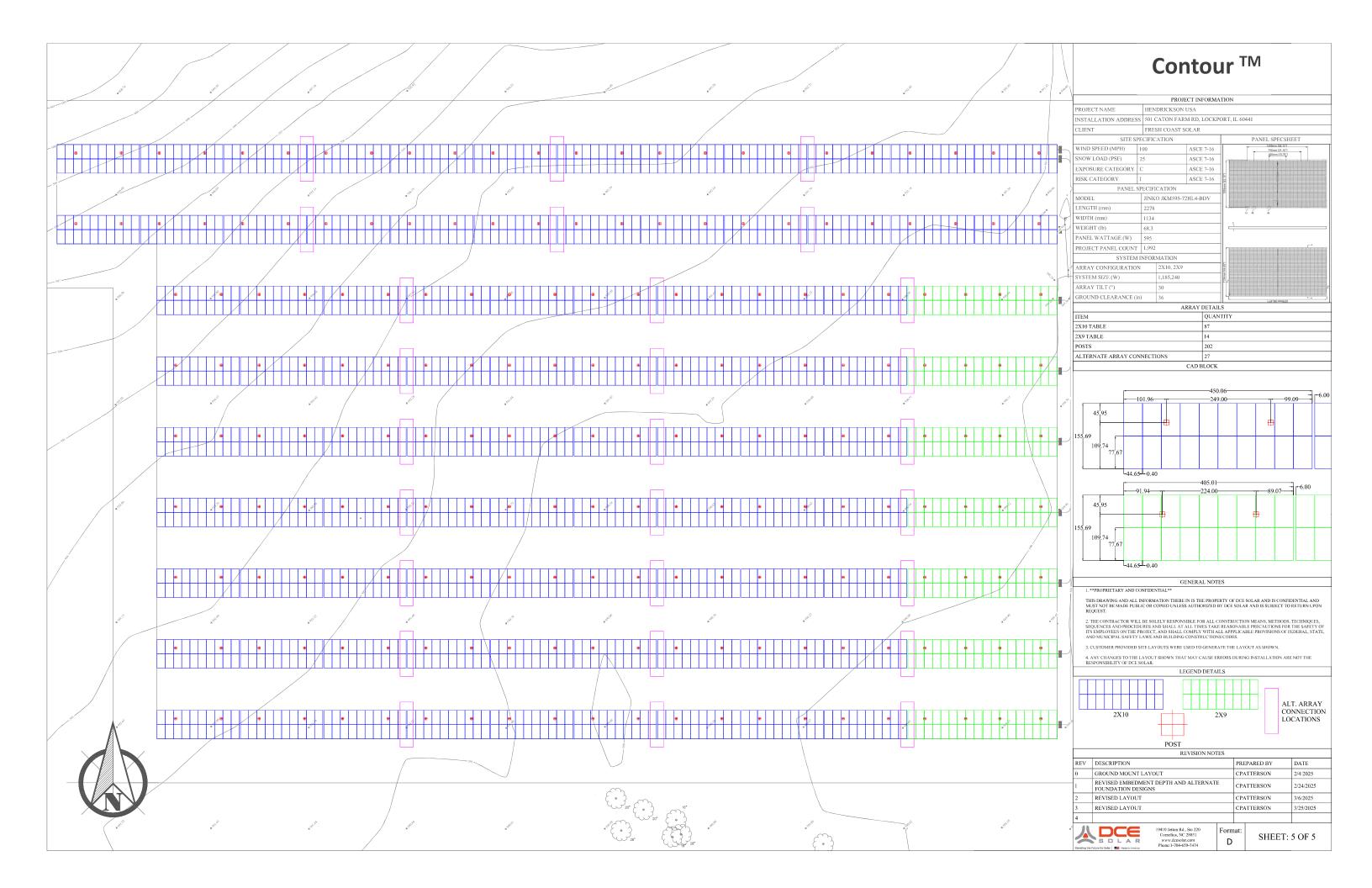
E601

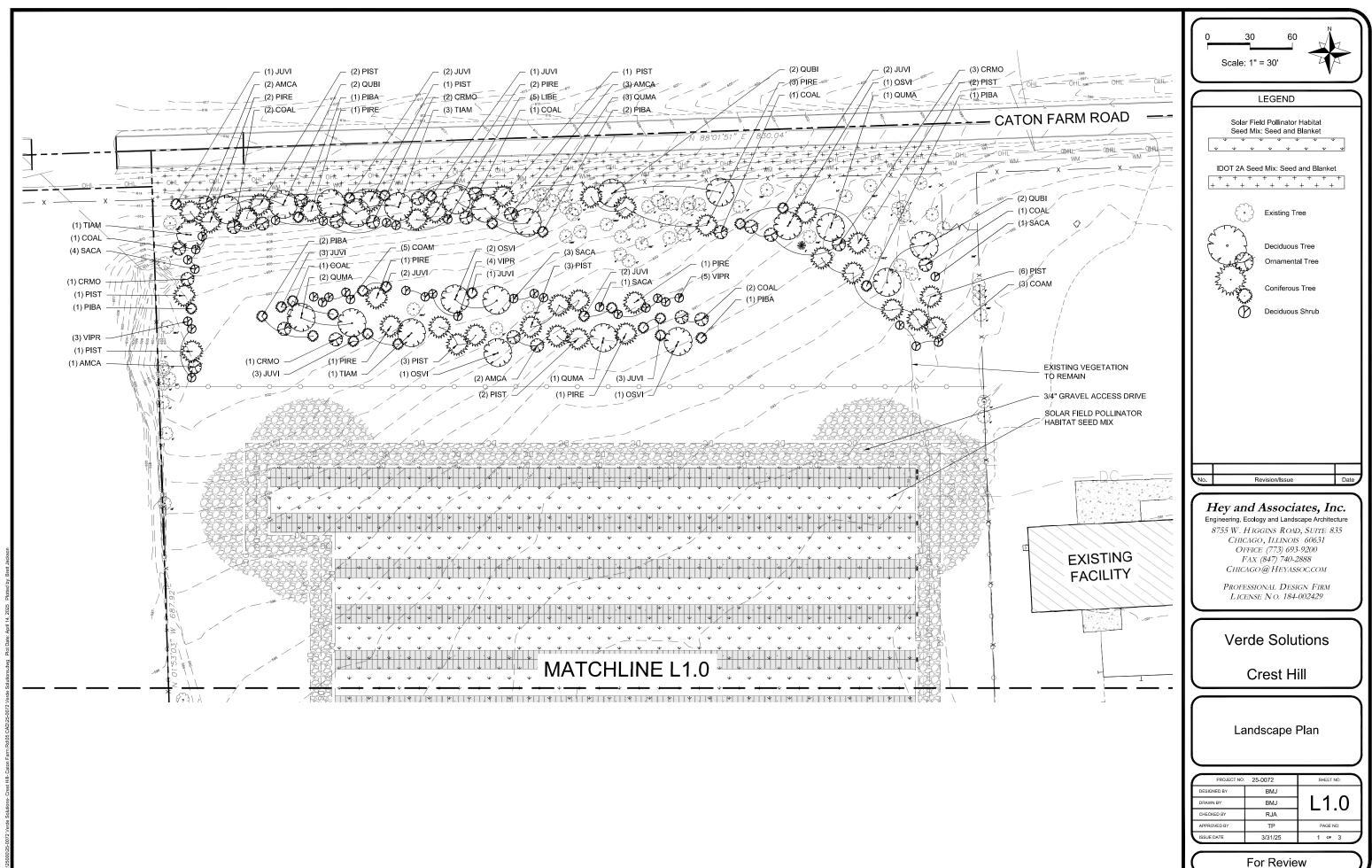




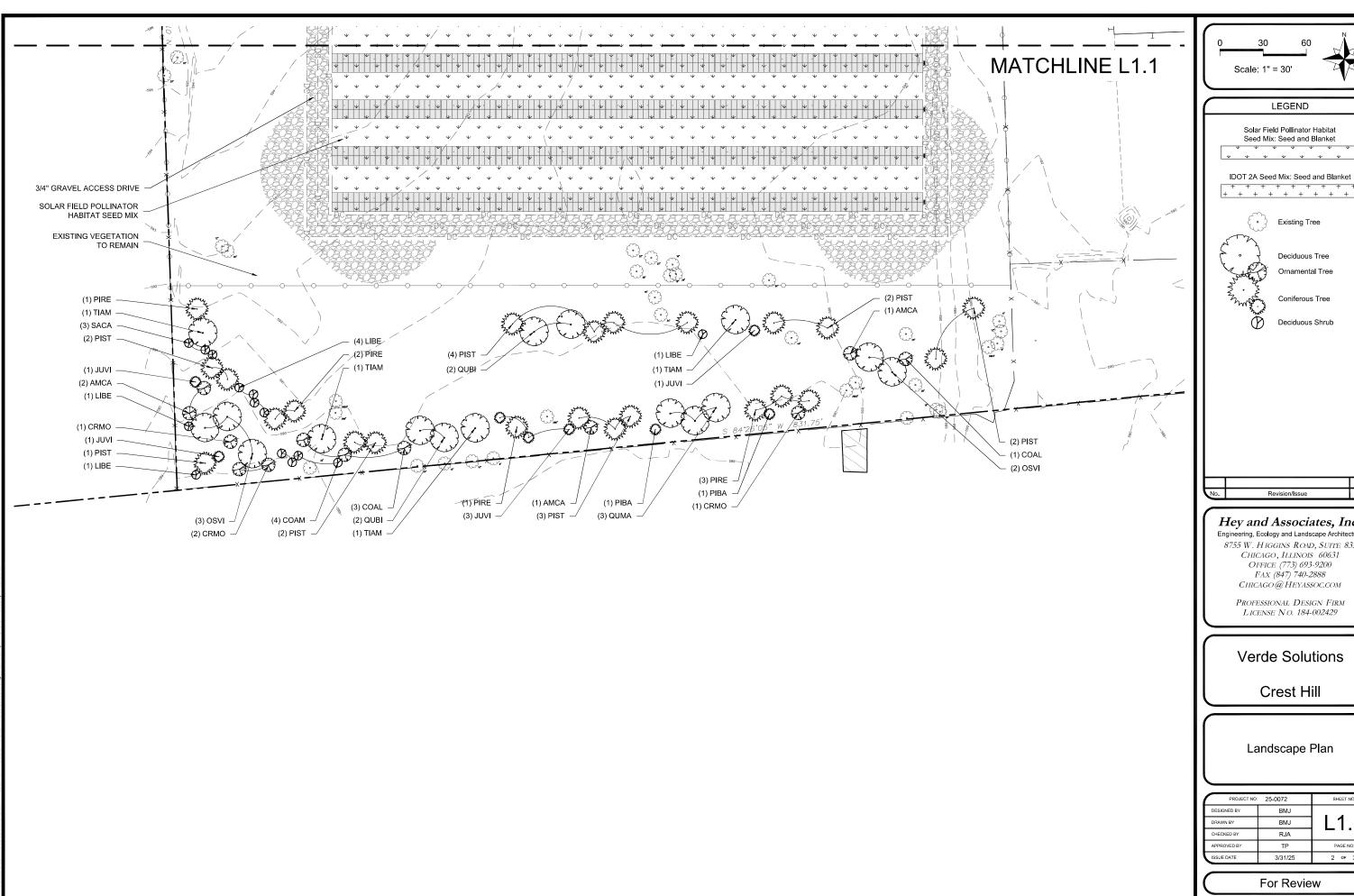








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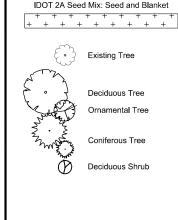
30 Scale: 1" = 30' LEGEND Solar Field Pollinator Habitat Seed Mix: Seed and Blanket

Existing Tree

Ornamental Tree

Coniferous Tree

Deciduous Shrub



Hey and Associates, Inc. Engineering, Ecology and Landscape Architecture

8755 W. HIGGINS ROAD, SUITE 835 CHICAGO, ILLINOIS 60631 Office (773) 693-9200 FAX (847) 740-2888 CHICAGO @ HEYASSOC.COM

> Professional Design Firm LICENSE NO. 184-002429

> **Verde Solutions**

Crest Hill

Landscape Plan

PROJECT NO:	25-0072	SHEET NO:
DESIGNED BY	BMJ	
DRAWN BY	BMJ	1 1
CHECKED BY	RJA	
APPROVED BY	TP	PAGE NO:
ISSUE DATE	3/31/25	2 OF 3

For Review

Quantity	Code	Size	Botanical Name	Common Name
DECIDUOL	JSTREES			
10	OSM	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	JJM	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
ORNAMEN	TAL TREES			
12	AMCA	6HT	Amelanchier canadensis	Shadblow Serviceberry
12	COAL	6HT	Cornus alternifolia	Pagoda Dogwood
12	CRMO	6HT	Crataegus mollis	Downy Hawthorn
DECIDUOUS SHRUBS				
12	COAM	#5 CONT	Cornus amomum	Silky Dogwood
12	∐BE	#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'

Allium cernuum Nodding Onion 6. Aquilegia canadensis Wild Columbine 1. Asclepias syriaca Common Milkweed 4. Chamaecrista fasciculata Partridge Pea 12 Coreopsis lanceolata Sand Coreopsis 10 Dalea purpurea Purple Pairie Clover 6. Liatris pychnostachya Prairie Blazing Sar 2. Lipinus perennis var. occidentalis Wild Lupine 2. Monarda punctata Horse Mint / Spotted Bermagot 1. Penstemon hirisutus Hairy Beard Tongue 1. Solidago nemoralis Old-Field Goldenrod 1. Symphyotrichum pilosum Hairy Aster 1. Verbena stricta Hoary Vervain 2. Zizia aurea Golden Alexander 2. TOTAL 52 Grasses Bouteloua curtipendula Sde-Oats Grama 24 Carex bicknellii Copper-Snouldered Oval Sedge 3. Koeleria macrantha June Grass 1. Schizachyrium scoparium Little Bluestem	Forbs		
Aquilegia canadensis Wild Columbine 1. Asclepias syriaca Common Milkweed 4. Chamaecrista fasciculata Partridge Pea 12 Coreopsis lanceolata Sand Coreopsis 10 Dalea purpurea Purple Praire Clover 6. Liatris pychnostachya Prairie Blazing Star 2. Lupinus perennis var. occidentalis Wild Lupine 2. Monarda punctata Horse Mint / Spotted Bermagot 1. Penstemon hirsutus Hairy Beard Tongue 1. Solidago nemoralis Old-Field Goldenrod 1. Symphyotrichum pilosum Hairy Aster 1. Verbena stricta Hoary Vervain 2. Zizia aurea Golden Alexander 2. TOTAL 52 Grasses Bouteloua curtipendula Sde-Oats Grama 24 Carex bicknellii Copper-Shouldered Oval Sedge 3. Koeleria macrantha June Grass 1. Schizachyrium scoparium Little Bluestem 64 Sporobolus heterolepis Pairie Drops	Scientific Name	Common Name	Total Ozs
Asclepias syriaca Common Milkweed 4. Chamaecrista fasciculata Partridge Pea 12 Coreopsis lanceolata Sand Coreopsis 10 Dalea purpurea Purple Praire Clover 6. Liatris pychnostachya Prairie Blazing Star 2. Lupinus perennis var. occidentalis Wlld Lupine 2. Monarda punctata Horse Mint / Spotted Bermagot 1. Penstemon hirsutus Hairy Beard Tongue 1. Solidago nemoralis Old-Field Goldenrod 1. Symphyotrichum pilosum Hairy Aster 1. Verbena stricta Hoary Vervain 2. Zizia aurea Golden Alexander 2. TOTAL 52 Grasses Bouteloua curtipendula Sde-Oats Grama 24 Carex bicknellii Copper-Shouldered Oval Sedge 3. Koeleria macrantha June Grass 1. Schizachyrium scoparium Little Bluestem 64 Sporobolus heterolepis Prairie Dropseed 3. TOTAL	Allium cernuum	Nodding Onion	6.0
Chamaecrista fasciculata Partridge Pea 12 Coreopsis lanceolata Sand Coreopsis 10 Dalea purpurea Purple Patire Clover 6. Lupinus perennis var. occidentalis Wld Lupine 2. Monarda punctata Horse Mint / Spotted Bermagot 1. Penstemon hirisulus Hairy Beard Tongue 1. Symphyotrichum pilosum Hairy Aster 1. Verbena stricta Hoary Vervain 2. Zizia aurea Golden Alexander 2. TOTAL 52 Grasses Bouteloua curtipendula Sde-Cats Grama 24 Carex bicknellii Copper-Shouldered Oval Sedge 3. Koeleria macrantha June Grass 1. Schizachyrium scoparium Little Bluestem 64 Sporobolus heterolepis Prairie Dropseed 3. TOTAL 96 Cover Crop Avena sativa Common Oat 512	Aquilegia canadensis	Wild Columbine	1.0
Coreopsis lanceolata Sand Coreopsis 10 Dalea purpurea Purple Praire Clover 6. Liatris pychnostachya Prairie Blazing Star 2. Lupinus perennis var. occidentalis Wild Lupine 2. Monarda punctata Horse Mint / Spotted Bermagot 1. Penstemon hirsutus Hairy Beard Tongue 1. Solidago nemoralis Old-Field Goldenrod 1. Symphyotrichum pilosum Hairy Aster 1. Verbena stricta Hoary Vervain 2. Zizia aurea Golden Alexander 2. TOTAL 52 Grasses Bouteloua curtipendula Sde-Oats Grama 24 Carex bicknellii Copper-Shouldered Oval Sedge 3. Koeleria macrantha June Grass 1. Schizachyrium scoparium Little Bluestem 64 Sporobolus heterolepis Prairie Dropseed 3. TOTAL 96 Cover Crop Avena sativa Common Oat 512	Asclepias syriaca	Common Milkweed	4.0
Dalea purpurea Purple Praire Clover 6. Liatris pychnostachya Prairie Blazing Star 2. Lupinus perennis var accidentalis Wild Lupine 2. Monarda punctata Horse Mint / spotted Bermagot 1. Penstemon hirsulus Hairy Beard Tongue 1. Solidago nemoralis Old-Field Goldenrod 1. Symphyotrichum pilosum Hairy Aster 1. Verbena stricta Hoary Vervain 2. Zizia aurea Golden Alexander 2. TOTAL 52 Grasses Bouteloua curtipendula Sde-Cats Grama 24 Carex bicknellii Copper-Shouldered Oval Sedge 3. Koeleria macrantha June Grass 1. Schizachyrium scoparium Little Bluestem 64 Sporobolus heterolepis Prairie Dropseed 3. TOTAL 96 Cover Crop Avena sativa Common Oat 512	Chamaecrista fasciculata	Partridge Pea	12.0
Liatris pychnostachya Prairie Blazing Star 2. Lupinus perennis var. occidentalis Wild Lupine 2. Monarda punctata Horse Mint / Spotted Bermagot 1. Penstemon hirsutus Hairy Beard Tongue 1. Solidago nemoralis Old-Field Goldenrod 1. Symphyotrichum pilosum Hairy Aster 1. Verbena stricta Hoary Vervain 2. Zizia aurea Golden Alexander 2. TOTAL 52 Grasses Bouteloua curtipendula Sde-Oats Grama 24 Carex bicknellii Copper-Shouldered Oval Sedge 3. Koeleria macrantha June Grass 1. Schizachyrium scoparium Little Bluestem 64 Sporobolus heterolepis Prairie Dropseed 3. TOTAL 96 Cover Crop Avena sativa Common Oat 512	Coreopsis lanceolata	Sand Coreopsis	10.0
Lupinus perennis var. occidentalis WIld Lupine 2. Monarda punctata Horse Minit / Spotted Bermagot 1. Penstemon hirsutus Hairy Beard Tongue 1. Spridago nemoralis Old-Field Goldenrod 1. Symphyotrichum pilosum Hairy Aster 1. Verbena stricta Hoary Vervain 2. Zizia aurea Golden Alexander 2. TOTAL 52 Grasses Bouteloua curtipendula Sde-Oats Grama 24 Carex bicknellii Copper-Shouldered Oval Sedge 3. Koeleria macrantha June Grass 1. Schizachyrium scoparium Little Bluestem 64 Sporobolus heterolepis Prairie Dropseed 3. TOTAL 96 Cover Crop Avena sativa Common Oat 512	Dalea purpurea	Purple Praire Clover	6.0
Monarda punctata Horse Mint / Spotted Bermagot 1. Penstemon hirsutus Hairy Beard Tongue 1. Solidago nemoralis Old-Field Goldenrod 1. Symphyotrichum pilosum Hairy Aster 1. Verbena stricta Hoary Vervain 2. Zizia aurea Golden Alexander 2. TOTAL 52 Grasses Bouteloua curtipendula Sde-Cats Grama 24 Carex bicknellii Copper-Shouldered Oval Sedge 3. Koeleria macrantha June Grass 1. Schizachyrirum scoparium Little Bluestem 64 Sporobolus heterolepis Prairie Dropseed 3. TOTAL 96 Cover Crop Avena sativa Common Oat 512	Liatris pychnostachya	Prairie Blazing Star	2.0
Penstemon hirsutus Hairy Beard Tongue 1. Solidago nemoralis Old-Field Goldenrod 1. Symphyotrichum pilosum Hairy Aster 1. Verbena stricta Hoary Vervain 2. Zizia aurea Golden Alexander 2. TOTAL 52 Grasses Bouteloua curtipendula Sde-Cats Grama 24 Carex bicknellii Copper-Shouldered Oval Sedge 3. Koeleria macrantha June Grass 1. Schizachyrium scoparium Little Bluestem 64 Sporobolus heterolepis Prairie Dropseed 3. TOTAL 96 Cover Crop Avena sativa Common Oat 512	Lupinus perennis var. occidentalis	Wild Lupine	2.0
Solidago nemoralis Old-Field Goldenrod 1. Symphyotrichum pilosum Hairy Aster 1. Verben a stricta Hoary Vervain 2. Zizia aurea Golden Alexander 2. TOTAL 52 Grasses Bouteloua curtipendula Sde-Oats Grama 24 Carex bicknellii Copper-Shouldered Oval Sedge 3. Koelenia macrantha June Grass 1. Schizachyrium scoparium Little Bluestem 64 Sporobolus heterolepis Prairie Dropseed 3. TOTAL 96 Cover Crop Avena sativa Common Oat 512	Monarda punctata	Horse Mint / Spotted Bermagot	1.5
Symphyotrichum pilosum Hairy Aster 1. Verbena stricta Hoary Vervain 2. Zizia aurea Golden Alexander 2. TOTAL 52 Grasses Bouteloua curtipendula Sde-Oats Grama 24 Carex bicknellii Copper-Shouldered Oval Sedge 3. Koeleria macrantha June Grass 1. Schizachyrium scoparium Little Bluestem 64 Sporobolus heterolepis Prairie Dropseed 3. TOTAL 96 Cover Crop Avena sativa Common Oat 512	Penstemon hirsutus	Hairy Beard Tongue	1.5
Verbena stricta Hoary Vervain 2. Zizia aurea Golden Alexander 2. TOTAL 52 Grasses Bouteloua curtipendula Sde-Oats Grama 24 Carex bicknellii Copper-Shouldered Oval Sedge 3. Koeleria macrantha June Grass 1. Schizachynium scoparium Little Bluestem 64 Sporobolus heterolepis Prairie Dropseed 3. TOTAL 96 Cover Crop Avena sativa Common Oat 512	Solidago nemoralis	Old-Field Goldenrod	1.0
Zizia aurea Golden Alexander 2. TOTAL 52 Casses Security authorism of the control o	Symphyotrichum pilosum	Hairy Aster	1.0
TOTAL 52	Verbena stricta	Hoary Vervain	2.0
Grasses Bouteloua curtipendula Sde-Oats Grama 24 Carex bicknellii Copper-Shouldered Oval Sedge 3. Koeleria macrantha June Grass 1. Schizachyrium scoparium Little Bluestem 64 Sporobolus heterolepis Pairie Dropseed 3. TOTAL 96 Cover Crop Avena sativa Common Oat 512	Zizia aurea	Golden Alexander	2.0
Bouteloua curtipendula Sde-Oats Grama 24 Carex bicknellii Copper-Shouldered Oval Sedge 3. Koeleria macrantha June Grass 1. Schizachyrium scoparium Little Bluestem 64 Sporobolus heterolepis Prairie Dropseed 3. TOTAL 96 Cover Crop Avena sativa Common Oat 512		TOTAL	52.0
Carex bicknellii Copper-Shouldered Oval Sedge 3. Koeleria macrantha June Grass 1. Schizachyrium scoparium Little Bluestem 64 Sporobolus heterolepis Prairie Dropseed 3. TOTAL 96 Cover Crop Avena sativa Common Oat 512	Grasses		
Koeleria macrantha Jine Grass 1. Schizachyrium scoparium Little Bluestem 64 Sporobolus heterolepis Prairie Dropseed 3. TOTAL 96 Cover Crop Avena sativa Common Oat 512	Bouteloua curtipendula	Side-Oats Grama	24.0
Schizachyrium scoparium Little Bluestern 64 Sporobolus heterolepis Prairie Dropseed 3. TOTAL 96 Cover Crop Avena sativa Common Oat 512	Carex bicknellii	Copper-Shouldered Oval Sedge	3.5
Sporobolus heterolepis Prairie Dropseed 3. TOTAL 96 Cover Crop Avena sativa Common Oat 512	Koeleria macrantha	June Grass	1.5
TOTAL 96 Cover Crop Avena sativa Common Oat 512	Schizachyrium scoparium	Little Bluestem	64.0
Cover Crop Avena sativa Common Oat 512	Sporobolus heterolepis	Prairie Dropseed	3.0
Avena sativa Common Oat 512		TOTAL	96.0
	Cover Crop		
TOTAL 513	Avena sativa	Common Oat	512.0
IOIAL 512		TOTAL	512.0

IDOTClass 2A (salt tolerant roadside mix)

Source: IDOT

Seeding rate: 200 lbs/acre (3,834 seeds / square foot) Mature height of species selected = under 3'

orbs	

Fortos			
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)

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

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

EXISTING

313 - 97 = 216

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

> DEPTH TO BE FINALIZED WITH FINAL ENGINEERING PLANS BASED ON GEOTECHNICAL 12"-18" MIN. GRAVEL BASE COMPACTED SUBGRADE
> (REMOVE UNSUITABLES AS REQUIRED) MIRAFI 140N GEOTEXTILE FILTER FABRIC WIDTH VARIES (SEE PLANS)

- NOTES:

 1. REMOVE TOPSOIL AND ALL UNSUITABLE MATERIAL AS REQUIRED AND REPLACE WITH GRAVEL.

 2. 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.

 3. ROAD SECTION SHALL COMPLY WITH RECOMMENDATIONS FROM GEOTECHNICAL REPORT.

 4. 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

Notes: 1- Trees shall be of quality prescribed in crown observations and root observations details and specifications. Original slope should pass 2- See specifications for further requirements related to this detail. through the point where the trunk base meets substrate/soil Prior to mulching, lightly tamp soil around the root ball in 6" lifts to brace tree. Do not over compact. When the planting hole has been backfilled, pour water around the root ball to settle the soil. Trunk caliper shall meet ANSI Z60 current edition for root ball size. 3" layer of mulch. No more than 1" of mulch on top of root ball. (See specifications for Root ball modified as Round-topped soil — berm 4" high x 8" wide above root ball surface shall be centered on the downhill side of the root ball for 240°. Berm shall begin at root ball varies. (See soil preparation Bottom of root ball rests on SECTION VIEW existing or recompacted soil.

3" layer of mulch.
No more than 1" of
mulch on top of
root ball. (See
specifications for
mulch). Original slope should -pass through the point where the trunk meets substrate/soil. 4" high x 8" wide round - topped soil berm above root ball surface shall be centered on the downhill side of the root ball for 240°, Berm shall begin at root ball – Prior to mulching, lightly tamp soil around the root ball in 6" lifts to brace shrub. Do not over compact. When the planting hole has been backfilled, pour water around the root ball to settle the soil. Modified soil. Bottom of root ball rests on existing or recompacted soil. Existing soil SECTION VIEW Shrubs shall be of quality as prescribed in the root observations detail and specification. 2- See specifications for further requirements related to this detail.

LEGEND

Hey and Associates, Inc. Engineering, Ecology and Landscape Architecture 8755 W. HIGGINS ROAD, SUITE 835 CHICAGO, ILLINOIS 60631 Office (773) 693-9200 FAX (847) 740-2888 CHICAGO @ HEYASSOC.COM

> Professional Design Firm LICENSE NO. 184-002429

> Verde Solutions

Crest Hill

Landscape Details

PROJECT NO:	25-0072	SHEET NO:		
ESIGNED BY	ВМЈ			
RAWN BY	ВМЈ	L L 1.2		
HECKED BY	RJA			
PPROVED BY	TP	PAGE NO:		
SUE DATE	3/31/25	3 OF 3		

For Review

Attachment D



The World Rides On Us®
Hendrickson Bumper Solar
Project

Who is Hendrickson?

Hendrickson is a leading global manufacturer and supplier of medium- and heavy-duty mechanical, elastomeric and air suspensions; integrated and nonintegrated axle and brake systems; tire pressure control systems; auxiliary lift axle systems; parabolic and multi-leaf springs; stabilizers; bumpers and components to the global commercial transportation industry.







Hendrickson Overview

- Hendrickson is family owned (privately held) by Boler Company
 - Boler HQ Schaumburg, IL
- 6,000+ global employees
- 30+ locations globally
 - Hendrickson HQ Woodridge, IL
- 6 unique brand names









Hendrickson Bumper

- Locations in Crest Hill, IL & Dayton, OH
 - 150,000 sq ft of facilities
 - 2 shift operations | ~100 employees
- Hendrickson acquired Crest Hill facility in 1977
- Functional teams on-site
 - Operations, Engineering, Quality, Marketing, HR, Accounting, Purchasing & Customer Service
- Tier 1 supplier to all major commercial vehicle OEMs
 - Annual metal bumper production 100k+
- Core values
 - Safety, Quality & Innovation
- Certifications
 - IATF16949:2022 (Quality)
 - ISO14001:2015 (Environmental)
 - VPP Star Certified (Safety)
 - Great Place to Work® Certified (Culture)







Manufacturing Capabilities

Blanking

Fiber laser

Forming

- Press brake
- 4-sided straight press
- Compression forming
- Channel press
- End form press
- ADFP (AERO Dynamic Forming Press)
- High tonnage, deep-draw press

Fabrication

- Robotic welding
- TIG welders
- MIG welders

Assembly

- Ship to sequence
- Intelligent tooling with integrated feedback
- In-House Tool & Die Room











Hendrickson Bumper's Customers



































Heavy Truck Sustainability

- Over last 5 years, heavy truck manufacturers place higher sustainability requirements on suppliers for new business
 - Volvo and Daimler leading the industry with sustainability requirements
- Customers require roadmap to carbon neutral
- While Hendrickson is leading the bumper industry in sustainability, Customers required more for new business
- Hendrickson Bumper's largest opportunity toward carbon neutral is renewable electricity













Business Growth



Hendrickson Bumper pursued 5-year major investment plan in 2022



Hendrickson Bumper received Board of Director approval to invest in solar field to provide 100% electricity thru renewable energy



As a result of Board's investment commitment, Hendrickson Bumper captured ~50% growth starting in 2026





Capability & Sustainability Investment

- High tonnage deep draw press (completed 2022)
- Building expansion 12,000 sq ft (completed 2024)
- High-speed fiber laser (completed 2025)
- 2nd high tonnage deep draw press (Q3 2025)
- High-speed robotic buffing (Q3 2025)
- Solar field (Q3 2025)

All investments not only increases capabilities for growth but also increase our sustainability





Solar Selection Process

- Hendrickson team sent RFQs to 4 Chicagoland commercial solar companies
- Requirements:
 - Engineering and installation with same company
 - Located within 100 miles
 - Locally demonstrated performance and references
 - Incentive assistance
 - Subject matter knowledge
- Verde Solutions ranked highest in all categories and was selected





Solar Business Case

- Business case presented to Board of Directors
 - Challenged timing
 - Federal incentives requires system to power on in 2025
 - State incentives require permit approval by June 1, 2025
- Balance of new business, payback, ROI, timing are critical





Summary

- Hendrickson is advancing manufacturing technology and sustainability
- Hendrickson is dedicated to investing in Crest Hill facility for long-term
- Hendrickson is increasing manufacturing and technology jobs
- Hendrickson's advancement in sustainability will enable future growth

















HENDRICKSON

Hendrickson USA Ground Mounted Solar PV Special Use Permit Request April 24, 2025

About Verde Solutions

Verde Solutions develops comprehensive energy solutions that benefit our clients and the communities we serve.

- Founded in 2012, Chicago Headquarters
- Provide solutions that result in significant savings
- Proven track record of success (2000+ energy efficiency projects in 48 states)
- NABCEP Certified and OSHA Certified Staff
- Turn-key project delivery
 - Comprehensive analysis
 - On-time installations self performed
 - High quality products & service
 - Hassle free rebate and incentive management













Similarly Completed Projects

Thelen Sand & Gravel - Lakemoor, IL



Minooka Wastewater Treatment Plant - Minooka, IL

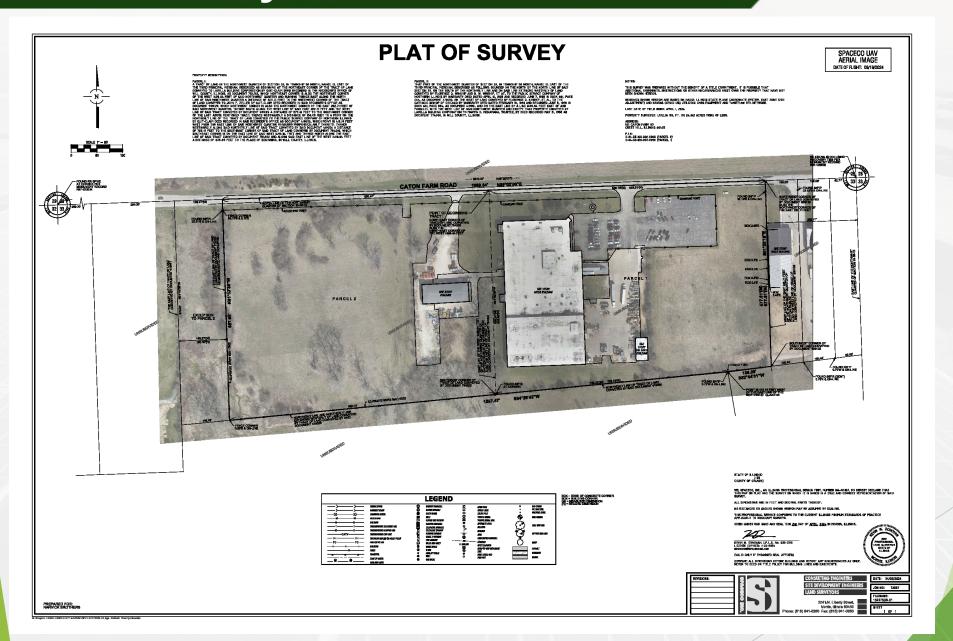


College of Lake County - Grayslake, IL





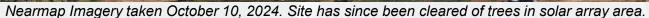
Plat of Survey





Current Site







Current Site



Looking West from Gate (Point A)



Looking North from Gate (Point A)

Caton Farm Rd



Wetland Study

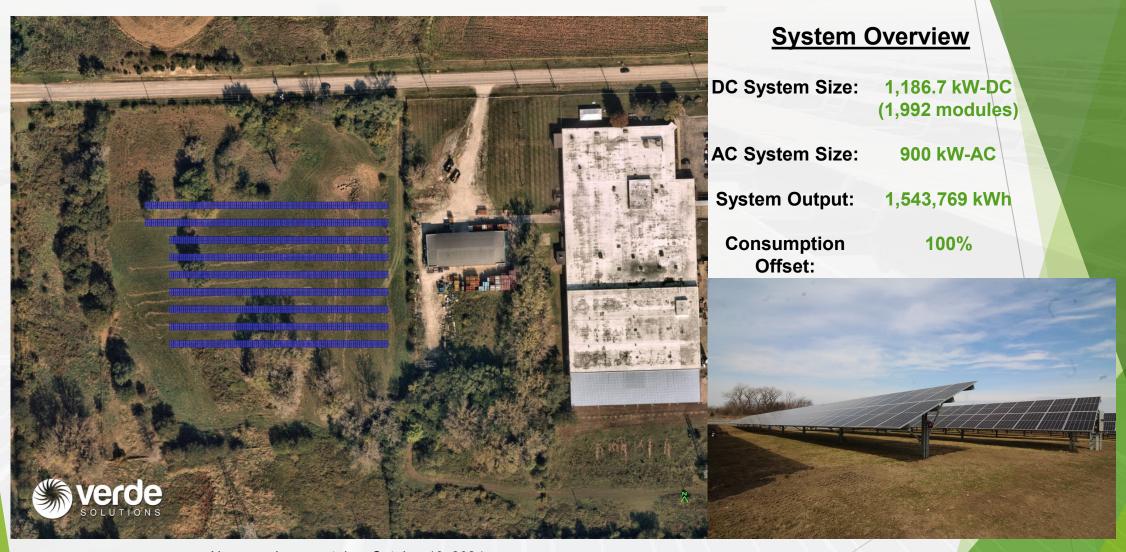


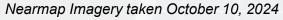
https://gisapp.willcountyillinois.com/Html5Viewer/Index.html?viewer=Data_Viewer

- Hey & Associates performed the field portion of Wetland Study April 22, 2025
- Solar array location is contingent on Final Wetland Study Results



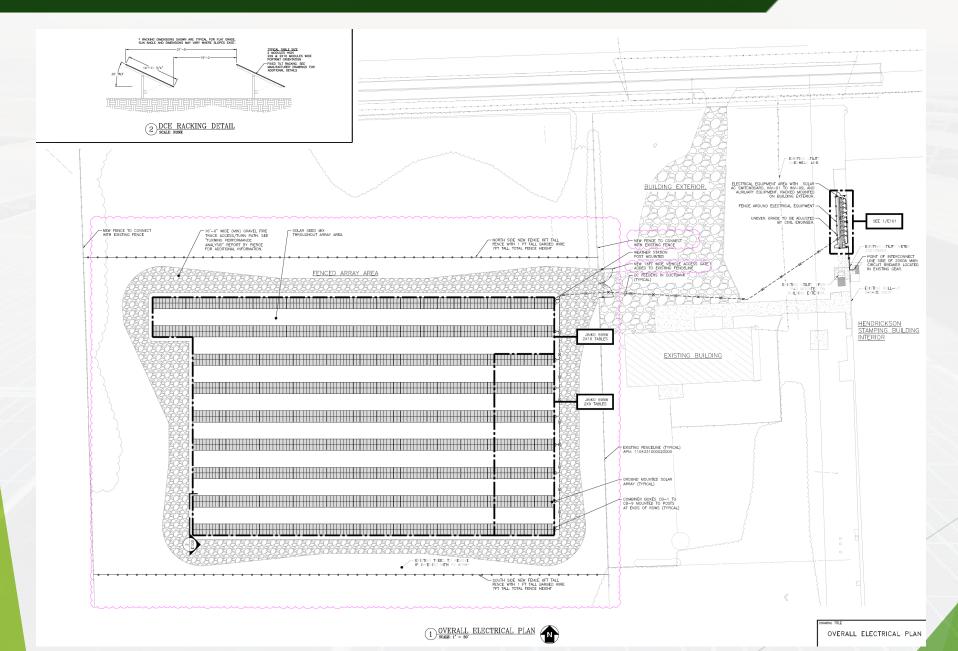
Proposed Design





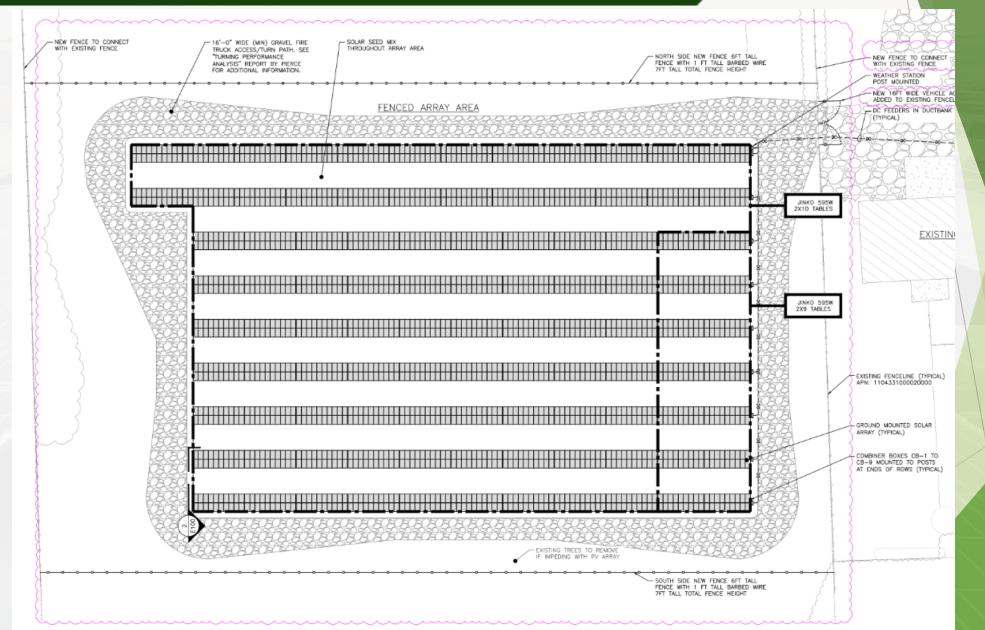


Site Details: Overall Electrical Plan



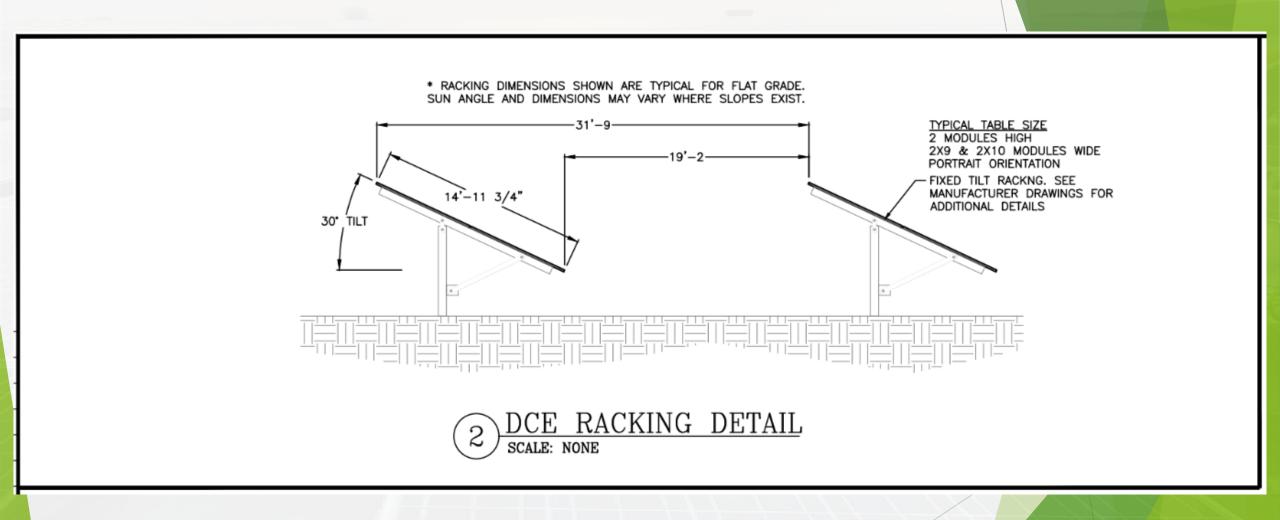


Site Details: Array Layout



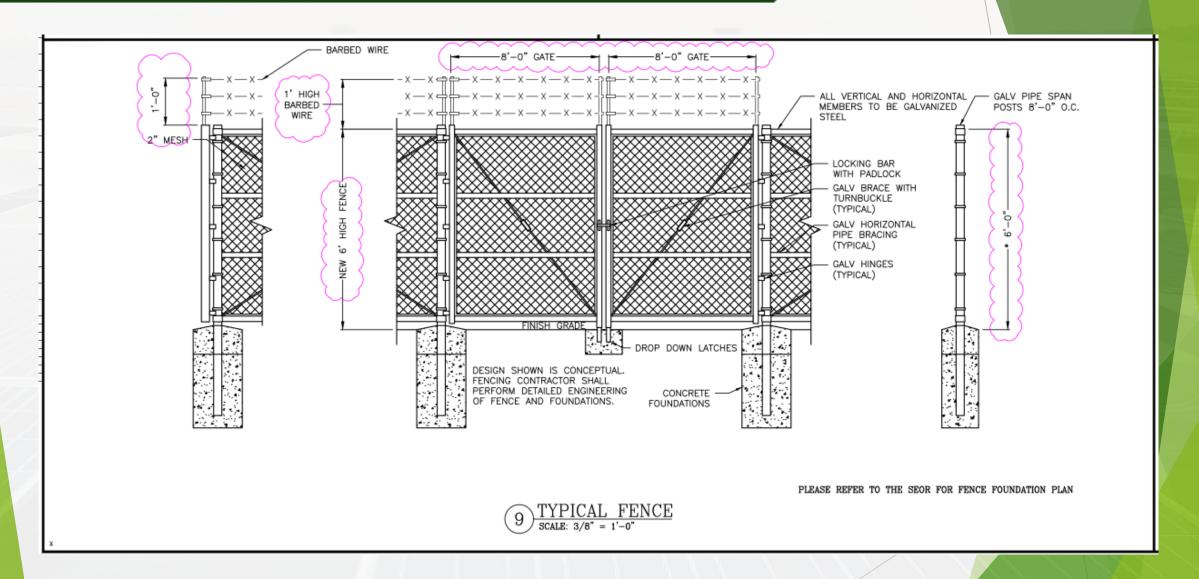


Site Details: Racking Detail





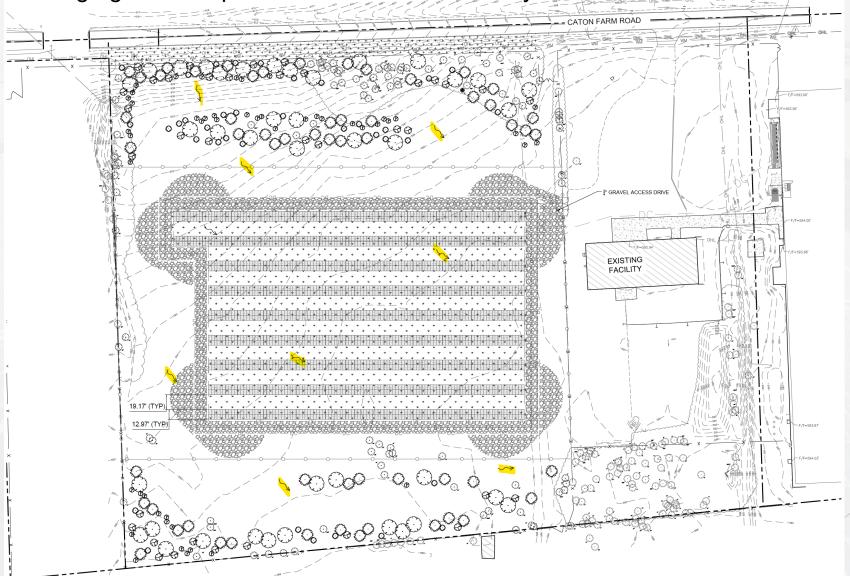
Site Details: Typical Fence



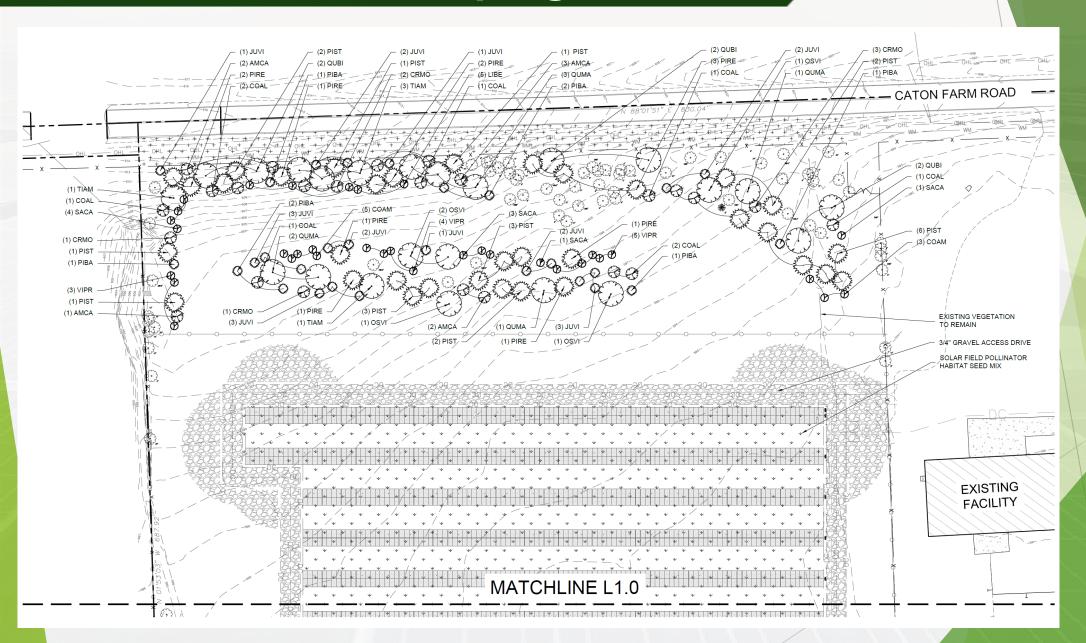


Site Details: Drainage Plan

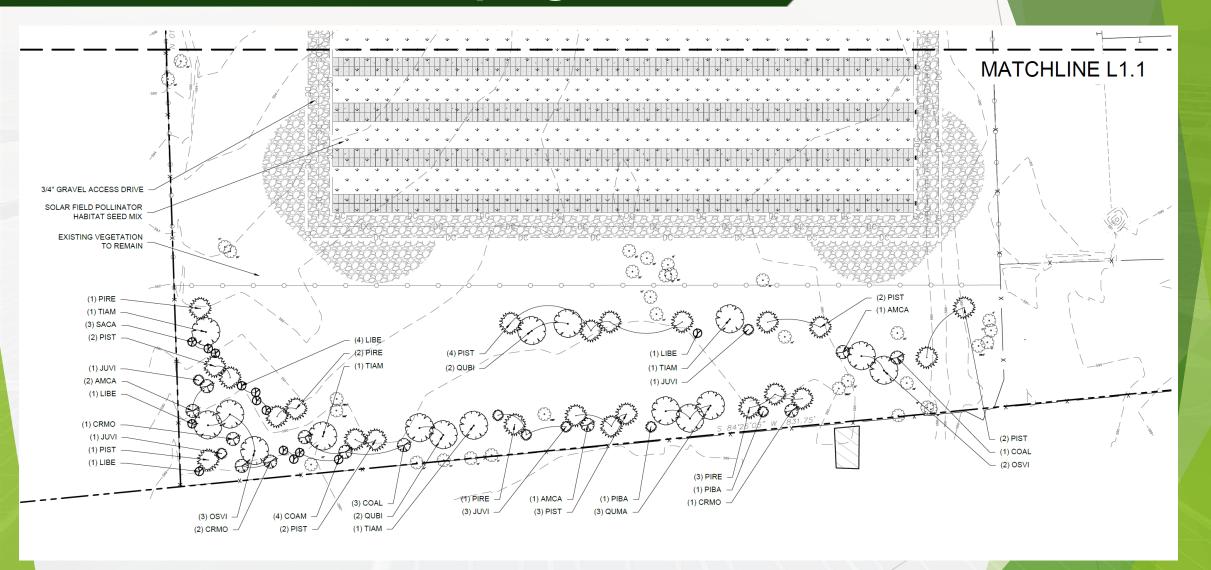
Average ground slope is 2.15% under solar array











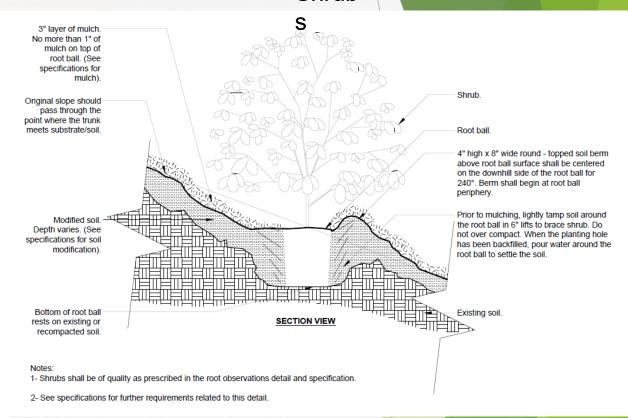


Trees

Central leader. (See crown 1- Trees shall be of quality observations detail). prescribed in crown observations and root observations details and specifications. Original slope should pass through the point where the 2- See specifications for further requirements related to trunk base meets substrate/soil. this detail. Prior to mulching, lightly tamp soil around the root ball in 6" lifts to brace tree. Do not over compact. When the planting hole has been backfilled, pour Trunk caliper shall meet ANSI Z60 current water around the root ball to edition for root ball size. settle the soil. 3" layer of mulch. No more than 1" of mulch on top of root Root ball modified as ball. (See specifications for required. Original grade. Round-topped soil berm 4" high x 8" wide above root ball surface shall be centered on the downhill side of the root ball for 240°. Berm shall begin at root ball periphery. Modified soil. Depth varies. (See soil preparation Bottom of root ball rests on SECTION VIEW existing or recompacted soil. URBAN TREE FOUNDATION @ 2014

OPEN SOURCE FREE TO USE

Shrub





(216) new plantings

PLANTSCHEDULE

Quantity	Code	Size	Botanical Name	Common Name
DECIDUOL	JSTREES			
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	JJM	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
ORNAMENTAL TREES				
12	AMCA	6HT	Amelanchier canadensis	Shadblow Serviceberry
12	COAL	6HT	Cornus alternifolia	Pagoda Dogwood
12	CRMO	6HT	Crataegus mollis	Downy Hawthorn
DECIDUOL	JSSHRUBS			
12	COAM	#5 CONT	Cornus amomum	Silky Dogwood
12	∐BE	#5 CONT	Lindera benzoin	Northern Spicebush
12	SACA	#5 CONT	Sambucus canadensis	American Ederberry
12	MPR	#5 CONT	Viburnum prunifolium	Blackhaw Viburnum

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



Seed Mixes

Solar Field Pollinator Habitat Seed Mix

Source: Stantec

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

Forbs

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

IDOTClass 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

1 0100				
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	



Site Details: Plant Schedule

GRASSES / SEDGES / RUSH











HERBACEOUS PERENNIALS









HERRACEOUS DEDENINIALS







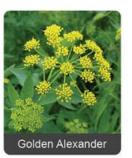










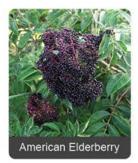


Site Details: Plant Schedule

DECIDUOUS SHRUBS









DRNAMENTAL TREES







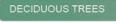
CONIFEROUS TREES



Eastern White Pine













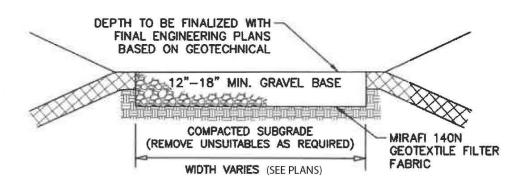


Bur Oak

Site Details: Gravel Access Path

Perimeter Emergency Access Road – 3/4" limestone gravel loosely compacted with

subgrade fabric

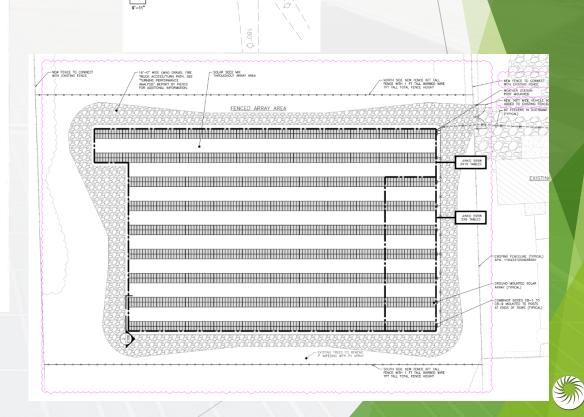


NOTES:

- 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.
- 3. ROAD SECTION SHALL COMPLY WITH RECOMMENDATIONS FROM GEOTECHNICAL REPORT.
- 4. 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



Questions?



