

STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

IN RE: :  
 :  
APPLICATION OF HADDAM QUARTER : DOCKET NO. 505  
SOLAR, LLC FOR A CERTIFICATE OF :  
ENVIRONMENTAL COMPATIBILITY AND :  
PUBLIC NEED FOR THE CONSTRUCTION, :  
OPERATION AND MAINTENANCE OF A :  
2.8 MW/AC SOLAR PHOTOVOLTAIC :  
PROJECT OFF HADDAM QUARTER :  
ROAD AND JOHNSON LANE IN :  
DURHAM, CONNECTICUT : SEPTEMBER 9, 2021

RESPONSES OF HADDAM QUARTER SOLAR, LLC  
TO CONNECTICUT SITING COUNCIL INTERROGATORIES

On August 19, 2021, the Connecticut Siting Council (“Council”) issued Interrogatories to Haddam Quarter Solar, LLC (“Applicant”), relating to the above-captioned solar facility (the “Project”). The Applicant offers the following responses.

**General**

Question No. 1

Referencing Application Attachment 4, of the letters sent to abutting property owners, how many certified mail receipts were received? If any receipts were not returned, which owners did not receive their notice? Were any additional attempts made to contact those property owners.

Response

All of the certified mail receipts have been returned.

Question No. 2

Since the filing of notice to abutters (Attachment 4), did the Applicant receive any abutter

or neighbor comments on the proposal? If so, provide a summary of the comments received.

Response

Since the filing of the abutters notice and the Council application, two neighbors contacted Applicant's counsel via email with questions about the proposal. Copies of the email exchanges between Richard Hanley, 111 Johnson Lane and Sharon Wysocki, daughter of Olive Wysocki, 102 Johnson Lane are included in Attachment 1.

Question No. 3

What is the estimated cost of the Project?

Response

The Applicant estimates the costs of the Project to be approximately \$4 million to \$5 million.

**Project Development**

Question No. 4

If the project is approved, identify all permits necessary for construction and operation and which entity will hold the permit(s). The Project Site Plans reference approvals from the Town of Durham. What Town approvals are required?

Response

As currently proposed, the following permits may be required for construction and operation of the Project:

- a. Connecticut Department of Energy and Environmental Protection, Permit for the Discharge of Stormwater and Dewatering Wastewater from Construction Activity.
- b. Building and Electrical Permit from Town of Durham.

c. Municipal Road Opening Permit.

Question No. 5

Was the project selected through a RFP process? If so, which RFP?

Response

No. The Project was selected via a direct referral to Laura Francis, the First Selectwoman for the Town of Durham.

Question No. 6

Was the project selected for the LREC/ZREC Program?

Response

Per the Public Act 19-35 Renewable Energy Tariff Program, the LREC/ZREC program in Connecticut has now concluded. However, the project in front of the Council will be eligible to participate in the Feed-in-Tariff Program established under Public 19-35.

Question No. 7

Is the project subject to a virtual net metering agreement? Would all of the Project output be dedicated to virtual net metering?

Response

The Applicant anticipates that all of the Project's output will be virtually net metered through the upcoming Public Act 19-35 Renewable Energy Tariff competitive solicitation.

Question No. 8

Does the Applicant have a contract to sell the electricity and renewable energy certificates (RECs) it expects to generate with the proposed project? If so, to which public utility? If the electricity is to be sold to more than one public utility, provide the percentage to be sold to each public utility.

Response

Yes, under the Feed-in-Tariff program established under Public Act 19-35, the project owner (Madison Energy Investments) will sell the RECs to Eversource under the buy-all option. We anticipate all RECs being sold to Eversource (this will help Eversource and the State of Connecticut meet its established clean energy goals).

Question No. 9

What authority approves the power purchase agreement (PPA) for the facility? Has a PPA with an electric distribution company been executed? If so, at what alternating current megawatt output? If not, when would the PPA be finalized?

Response

Per Public Act 19-35, the Connecticut Public Utilities Regulatory Authority (PURA) is responsible for administering the state's Feed-in-Tariff Program and all other associated monetary contracts. At this date, this project is prepared to bid into the state's first competitive process for the Feed-in-Tariff program.

Question No. 10

What is the length of the PPA? Are there provisions for any extension of time in the PPA? Is there an option to renew?

Response

Per Public Act 19-35, the Feed-in-Tariff will last for 20 years.

Question No. 11

Is the alternating current megawatt capacity of the facility fixed at a certain amount per the PPA and/or the RFP? Is there an option within the PPA to allow for changes in the total output of the facility based on unforeseen circumstances?

Response

Per Public Act 19-35, utilities will buy all of energy and RECs associated with the project and the town will receive a set percentage of the bill credits under the new Feed-in-Tariff Program.

Question No. 12

If the PPA expires and is not renewed and the solar facility has not reached the end of its lifespan, will the Applicant decommission the facility or seek other revenue mechanisms for the power produced by the facility?

Response

Yes, if the solar system has not reached the end of its lifespan, the applicant will look to enter the most up-to-date renewable energy certificate (REC) program.

Question No. 13

Would the Applicant participate in the ISO-NE Forward Capacity Auction? If yes, which auction(s) and capacity commitment period(s)?

Response

Currently, there are no plans to participate in the ISO-NE Capacity Auction.

**Proposed Site**

Question No. 14

Is the site parcel, or any portion thereof, part of the Public Act 490 Program? If so, how does the municipal land use code classify the parcel(s)? How would the project affect the use classification?

Response

No.

Question No. 15

Has the State of Connecticut Department of Agriculture purchased any development rights for the project site or any portion of the project site as part of the State Program for the Preservation of Agricultural Land?

Response

No.

Question No. 16

Provide the distance, direction and address of the nearest property line and nearest off-site residence from the solar field perimeter fence.

Response

The nearest property line to the solar field perimeter fence is 32.5 feet away from the site's southern property boundary along the north side of Johnson Lane right of way. The nearest off-site residence to the Project's perimeter fence is located at 155R Johnson Lane, approximately 394 feet to the south of the perimeter fence.

**Energy Output**

Question No. 17

What, if any, electrical loss assumptions have been factored into the output of the facility?

Response

The Applicant has considered a DC loss fraction of 1.5%, module mismatch loss of 2%, and string voltage mismatch loss of 0.1%.

Question No. 18

What is the efficiency of the photovoltaic module technology of the proposed project?

Response

20%.

Question No. 19

Would the power output of the solar panels decline as the panels age? If so, estimate the percent per year.

Response

Yes. The Applicant would estimate that power output would decline by approximately 0.45% per year.

Question No. 20

Could the project be designed to serve as a microgrid?

Response

No. The solar facility is designed as a distributed generation asset which exports energy to the grid as an energy supplier to the existing utility distribution network. Microgrids operate as an infrastructure designed to power a cluster or network of buildings and having the ability to operate its own local energy generation without dependency on the existing grid power. This Project is not directly tied to any cluster of buildings that can be isolated from the grid to act as a microgrid.

Question No. 21

If one section of the solar array experiences electrical problems causing the section to shut down, could other sections of the system still operate and transmit power to the grid? By what mechanism are sections electrically isolated from each other?

Response

The solar array incorporates smart relay protection mechanisms that detect a multitude of

electrical and mechanical faults that may occur within the Project limits or external to the Project limits. Common relay targets include sensing for overcurrent, over and under voltage, and over and under frequency events. If such fault conditions are not drastic enough to affect the entire array, only a section of the array will shut down. The remaining unaffected equipment will continue to operate. There are redundancies in protection schemes within the array that allows the system to isolate faults to only certain sections and, completely shut down the entire solar array if necessary. The main mechanisms are the internal inverter relay protections and the pole mounted recloser/relay equipment.

#### Question No. 22

What is the projected capacity factor (expressed as a percentage) for the proposed project?

#### Response

The projected capacity factor is 21.62%

#### Question No. 23

Do solar facilities present a challenge for the independent system operator for balancing loads and generation (to maintain the system frequency) due to the changing (but not controlled) megawatt output of a solar facility? What technology or operational protocols could be employed to mitigate any challenges?

#### Response

Solar facilities do not present a challenge for the independent system operator for balancing loads and generation. The utility company recently completed a distribution System Impact Study which assesses the steady state impacts of the proposed Project on the distribution systems. The study found the Project to be compliant with all requirements detailed in the



Eversource and UI Generation 10 Interconnection Technical Requirements document. The Project will reduce active power when frequency is too far above 60Hz, if required to by the utility. Due to interconnection limitations, Applicant does not have underfrequency control. Because the interconnecting utility manages underfrequency events, Applicant is unaware of any challenges that ISOs may have. The interconnecting utility has indicated that the Project will manage reactive power and power factor under a set voltage schedule, which schedule has not been provided yet.

Question No. 24

Pursuant to CGS §16-50p(c), a public benefit exists when a facility is necessary for the reliability of the electric power supply of the state or for the development of a competitive market for electricity. Public benefit exists if the Council finds and determines a proposed electric generating facility contributes to forecasted generating capacity requirements, reduces dependence on imported energy resources, diversifies state energy supply mix and enhances reliability. Please respond to the following:

- a) Would the proposed facility be necessary for the reliability of the electric power supply of the state? Explain why or why not.
- b) Would the proposed facility be necessary for the development of a competitive market for electricity? Explain why or why not.
- c) Would the proposed facility contribute to the forecasted generating capacity requirements? Explain why or why not.
- d) Would the proposed facility reduce dependence on imported energy resources? Explain why or why not.

- e) Would the proposed facility diversify the state's energy supply mix? Explain why or why not.
- f) Would the proposed facility enhance reliability? Explain why or why not.

Response

- a) The Applicant does not believe that the Project is *necessary* for the reliability of the electric power supply of the state. This is due to the relatively small size of the Project and because it will interconnect to the electric distribution network, and not the transmission network. While the Project will however, enhance grid reliability and reduce the demand for power on the distribution circuit during peak demand hours. This demand reduction, in turn, will increase grid reliability (albeit in a limited amount due to the relative size of the Project) through decreasing aggregate system demands at peak times.
- b) Yes. The Project plans to participate in the upcoming Eversource/United Illuminating Public Act 19-35 Renewable Energy Tariff competitive solicitation, which will be administered by Connecticut's electric distribution companies. The purpose of this auction is to permit the development of low emission and zero emission generation technologies in Connecticut, in the most cost-effective manner. Given Governor Lamont's declared policy in Executive Order No. 3 of decarbonizing the state's electric generation fleet and by virtue of the Project's participation in the tariff program, it follows that the proposed solar facility is necessary for the development of a competitive market for electricity.
- c) No. Given the relatively small size of the Project, and because it will interconnect to the distribution network in Durham, as opposed to the transmission network, the Project will not directly factor into the respective calculation for forecasted

generation in ISO-NE territory. The Project will, however, reduce demand for power on the distribution circuit to which it interconnects. Over time, such reduction in demand on the relevant distribution circuit may be considered in forecasted requirements, however such impact(s) will be indirect.

- d) Yes. The Project will represent a clean, local source of renewable energy that will help meet the state's energy requirements domestically, thereby reducing Connecticut's reliance on imported energy resources. Further, as a renewable resource, the Project will be powered entirely by sunlight and will not require the consumption of fuels, including natural gas, coal, oil) for its operation and production.
- e) Yes, despite the Project's relatively small size, it will diversify Connecticut's energy supply mix by adding another renewable energy resource into the state's portfolio of energy sources. In Connecticut, renewable energy remains vastly out supplied by natural gas and nuclear generation resources, and the Project, if constructed, will increase the number of available renewable energy resources in the state.
- f) Yes. As a distributed generation resource, the Project will increase the reliability of the overall electric grid. As mentioned in Response No.24 (a) above, the Project will reduce the demand for power on the distribution circuit that it is interconnected to, thereby reducing the MWhs needed from centrally-located generation facilities. In aggregate, this should serve to alleviate stress on the grid. Additionally, as grid technologies advance and storage systems become more prevalent, distributed generation should serve to shield customers from mass grid shutdowns through further circuit compartmentalization (microgrids).

## **Site Components and Solar Equipment**

### Question No. 25

Is the wiring from the panels to the inverters installed on the racking? If wiring is external, how would it be protected from potential damage from weather exposure, vegetation maintenance, or chewing animals?

### Response

All exposed wiring is UV-rated USE-2 Solar Wire commonly used as solar power cable in green energy applications. The cross-linked insulation is a general purpose, chemically crosslinked polyethylene compound combining the best properties of rubber and polyethylene to provide a thermosetting material with excellent thermal, electrical and physical properties. This is secured to the hardware supporting the solar modules (racking) by UV-rated stainless-steel bundle straps at a minimum of three (3) feet above grade to protect it from small animals and damage during mowing operations. The Applicant does not anticipate that the protected wiring systems will be adversely impacted by wildlife or vegetation management efforts. This wiring method is also compliant with NEC2020 Code requirements.

## **Interconnection**

### Question No. 26

Is the project interconnection required to be reviewed by ISO-NE?

### Response

Yes, all distributed generation projects go through some level of ISO-NE review which is handled by the interconnecting electric distribution company, in this case Eversource.

### Question No. 27

Is a System Impact Study from the electric distribution utility and/or ISO-NE required for

the interconnection process? Does the Applicant have an Interconnection Agreement and with whom? Provide the status of such studies and agreements.

Response

Yes, a System Impact Study was completed for interconnection with Eversource. An interconnection agreement has been provided by Eversource as well, which will need to be executed both by the utility and interconnecting customer.

Question No. 28

Is the existing electrical distribution on Johnson Lane three-phase or would it have to be upgraded from single-phase to three-phase to accommodate the Project?

Response

The existing electrical distribution along Johnson Lane is single phase. During the impact study report conducted by Eversource, it was determined that approximately 2,350 feet of three phase extension would be needed to provide three-phase power to the Project site.

Question No. 29

Why are four utility poles in close proximity to each other required for the interconnection?

Response

The system impact study conducted along with the utility standards for interconnection dictates that the Project have separate poles for a utility-owned disconnect, a utility-owned recloser, and a utility-owned primary meter, along with another pole for utility telemetry equipment.

## **Public Safety**

### Question No. 30

Are there any wells on the site or in the vicinity of the site? If so, how would the Applicant protect the wells and/or water quality from construction impacts?

### Response

There are no wells on the Project site. Homes in the vicinity of the Project are not served by a public water supply system and are presumed to have individual wells.

Water quality would be protected during construction through the implementation of a spill prevention control plan and other means, as detailed in the Water Quality Protection Plan included in Attachment 2. The Applicant currently does not expect that it will need to blast to construct the Project. Impact on area wells is therefore not anticipated.

### Question No. 31

In the event of a brush or electrical fire, how would the Applicant mitigate potential electric hazards that could be encountered by emergency response personnel?

### Response

Trained on-site construction personnel review emergency and safety plans daily, which includes site safety issues related to fire awareness, prevention, and mitigation. Once the Project is operational, the Applicant will rely on local fire fighters to mitigate fire hazards. The Applicant intends to reach out to local emergency service entities to discuss training and experience with solar facility operations.

### Question No. 32

Is a Spill Prevention, Control and Countermeasure Plan required as part of the DEEP Stormwater Permit? If not, provide fuel storage/spill prevention and control details.

Response

The DEEP General Permit does not require a Spill Prevention Control and Countermeasure Plan. Such information is often included in materials provided with the application. Fuel storage/spill prevention and control details for this Project are contained in the Water Quality Protection Plan. See Attachment 2.

Question No. 33

Has the manufacturer of the proposed solar panels conducted Toxicity Characteristic Leaching Procedure (TCLP) testing to determine if the panels would be characterized as hazardous waste at the time of disposal? Please submit the specifications that indicate the proposed solar modules would not be characterized as hazardous waste. If the project is approved, would the Applicant consider installing solar modules that are not classified as hazardous waste through TCLP testing?

Response

Yes, the solar panel manufacturer has conducted TCLP testing on the modules the Applicant intends to use. A copy of the TCLP report is included in Attachment 3. Based on the TCLP report, the modules are not characterized as hazardous waste.

**Environmental**

Question No. 34

Referring to Application p. 14, has the State Historic Preservation Office provided comment on the project? If so, provide a copy of the response.

Response

The SHPO responded by letter dated August 23, 2021 and concurred with the findings in the Cultural Resources Reconnaissance Survey Report included in the Application, which found

that no additional archaeological investigations are warranted, and no historic properties will be affected by the Project. A copy of the SHPO's response is included as Attachment 4.

Question No. 35

Referencing Application Attachment 8, the Public Information Meeting site diagram is not legible. Submit a legible copy. Did the initial design maintain a 100-foot buffer from the limit of disturbance to the on-site wetland?

Response

See Attachment 5.

Question No. 36

Is Hersig Brook a DEEP recognized cold-water stream?

Response

The DEEP Cold Water Habitat Map does not identify Hersig Brook as a DEEP recognized cold water stream<sup>1</sup>. The nearest cold water stream, Sumner Brook and its supporting watershed, is located ±0.5 mile to the southeast of the Project in a separate watershed from Hersig Brook.

Question No. 37

Referring to Site Plan V-1, why are 100-foot and 150-foot wetland buffers shown?

Response

Notwithstanding the fact that the Council maintains exclusive jurisdiction over this Project, the wetland buffers are shown on the plan to confirm that the Project also conforms with

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<sup>1</sup> <https://ctdeepwatermonitoring.github.io/ColdWaterHab/>; website accessed 8/24/21.



the Town of Durham Inland Wetlands and Watercourses requirements. Section 2.1.ee.2.

(Definitions – Regulated Activity) provides that “[i]f the overall slope of the uplands review area exceeds an average of 10% grade an additional fifty (50) feet shall be added to the horizontal width of the upland review area.” Accordingly, that portion of the upland review area that contains slopes exceeding an average of 10% shows a 150-foot upland review area, with the remaining upland review area at 100 feet.

Question No. 38

Referring to Site Plan OP-1, what is the width of the wetland buffers shown on the plan?

Response

The wetland buffers depicted on Site Plan OP-1 are 50 feet and 100 feet. These buffers also comply with the requirements of the DEEP stormwater general permit (Appendix I).

Question No. 39

The Greenhouse Gas (GHG) Assessment in Appendix M of Council Petition No. 1352 compared the life cycle GHG emissions from a solar project to a scenario where the solar project is avoided, and an equivalent amount of natural gas-fired electric generation operated for the estimated life of the solar facility. For the proposed project, how would the net GHG emissions (or reduction) over the life of the solar facility and carbon debt payback be affected under this natural gas-fired generation versus proposed solar generation scenario?

Response

The net GHG emissions over the 25-year life of the proposed solar facility are estimated to be equivalent to 67,120 metric tons CO<sub>2</sub>. While the net GHG emissions over that same period for a natural gas-fired generation facility are equivalent to 423,825 metric tons CO<sub>2</sub>. The reduction in CO<sub>2</sub> emissions from utilizing the proposed solar facility is estimated to be 145.31%

when compared to a natural gas-fired facility.

Question No. 40

What effect would runoff from the drip edge of each row of solar panels have on the site drainage patterns? Would channelization below the drip edge be expected? If not, why not?

Response

The rows of solar panels are not considered “closed systems” because there are gaps between each module (both north/south and east/west). As such, the drip edge of each solar panel will not have an impact on the Site’s drainage patterns, as stormwater will flow off the panels at multiple locations as the panels follow the contours of the existing land. For the same reason, after construction is complete and the Site is fully stabilized, channelization along the drip edge is not expected.

Question No. 41

Please submit photographic site documentation with notations linked to the site plans or a detailed aerial image that identify locations of site-specific and representative site features. The submission should include photographs of the site from public road(s) or publicly accessible area(s) as well as Site-specific locations depicting site features including, but not necessarily limited to, the following locations as applicable:

For each photo, please indicate the photo viewpoint direction and stake or flag the locations of site-specific and representative site features. Site-specific and representative site features include, but are not limited to, as applicable:

1. wetlands, watercourses and vernal pools;
2. forest/forest edge areas;
3. agricultural soil areas;

4. sloping terrain;
5. proposed stormwater control features;
6. nearest residences;
7. site access and interior access road(s);
8. utility pads/electrical interconnection(s);
9. clearing limits/property lines;
10. mitigation areas; and
11. any other noteworthy features relative to the Project.

A photolog graphic must accompany the submission, using a site plan or a detailed aerial image, depicting each numbered photograph for reference. For each photo, indicate the photo location number and viewpoint direction, and clearly identify the locations of site-specific and representative site features shown (e.g., physical staking/flagging or other means of marking the subject area).

The submission shall be delivered electronically in a legible portable document format (PDF) with a maximum file size of <20MB. If necessary, multiple files may be submitted and clearly marked in terms of sequence.

Response

*See Attachment 6.*

**Facility Construction**

Question No. 42

Has the Applicant met with the DEEP Stormwater Division? If yes, when? Please describe any recommendations, comments or concerns about the project provided by the Stormwater Division.

Response

The Applicant has submitted a request for a pre-application meeting with DEEP, which would involve the DEEP Stormwater Division as well as any other DEEP personnel deemed appropriate. DEEP has not yet responded to this request.

Question No. 43

How does construction of the stormwater basin at the site comply with DEEP Stormwater Permit Appendix I, I(2)(a)(ii) regarding 50-foot wetland buffers from the limit of disturbance?

Response

The proposed permanent water quality stormwater basin complies with DEEP Stormwater Permit Appendix I, I(2)(a)(ii) regarding the 50-foot wetland buffer, as the proposed limits of grading have been kept outside the 50-foot wetland buffer.

Question No. 44

Would the proposed stormwater basin retain water during the Spring due to an elevated water table?

Response

It is possible that an elevated water table could result in some water retention in the water quality stormwater basin.

Question No. 45

Does the Applicant intend to consult with the DEEP Dam Safety program regarding permitting requirements, if any, for the proposed stormwater basin?

Response

As indicated in the response to Question No. 42, the Applicant will have a pre-application meeting with DEEP at which all DEEP programs and Divisions with potential interest or

involvement in the Project will be represented.

Question No. 46

Referring to Site Plan GD-1, Note 1, what areas need to be re-graded?

Response

Note 1 is intended to emphasize to the Applicant's contractor that, if any grading/shaping that is not shown as part of the grading plan occurs, it must maintain existing drainage patterns.

Question No. 47

Where would the excess cut from construction activities be disposed of?

Response

The Applicant hopes to avoid having to remove any excess material from the Property. As indicated in the EA, topsoil will be separated, retained and spread within the Project area. Any excess non-topsoil material will be spread within or near the Project area as far as possible from the wetland and watercourses. If necessary, excess materials will be trucked off-site.

Question No. 48

Has a comprehensive geotechnical study been completed for the site to determine if site conditions support the overall Project design? If so, summarize the results. If not, has the Applicant anticipated and designed the Project with assumed subsurface conditions? What are these assumed conditions?

Response

A comprehensive geotechnical study has not yet been performed for the site. The method of construction proposed is appropriate for a wide range of subsurface conditions. It is assumed that bedrock will not be encountered.

## Facility Maintenance

### Question No. 49

Would the Applicant store any replacement modules on-site in the event solar panels are damaged or are not functioning properly? If so, where?

### Response

No. Replacement modules will not be stored on-site.

### Question No. 50

Is a livestock/agricultural co-use plan proposed for the site? If so, submit co-use plan details.

### Response

No.

# **ATTACHMENT 1**

## Baldwin, Kenneth

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**From:** Baldwin, Kenneth  
**Sent:** Wednesday, July 28, 2021 3:02 PM  
**To:** durhamct@gmail.com  
**Cc:** Graham Basecke; Ashley Cintron  
**Subject:** RE: Haddam Quarter Solar Farm

Mr. Hanley:

I heard back from my client and their project engineer regarding your most recent questions. It is important to note that the interconnection for the proposed solar facility will be owned and controlled by Eversource. The final electrical plans will be developed by Eversource following the approval of the project by the Siting Council.

That said, the plan, as proposed by Louth Callan Renewables (Haddam Quarter Solar), is to install four Class 2 wood utility poles like the one shown in the attached photograph, all located in the far-westerly portion of the project area. The pole locations are shown on plan sheets OP-1, GD-1, SP-1 and LP-1.



If you have any additional questions or need any additional information about the project please feel free to contact me.

Ken

**From:** Richard Hanley <durhamct@gmail.com>  
**Sent:** Wednesday, July 21, 2021 3:31 PM  
**To:** Baldwin, Kenneth <KBALDWIN@RC.com>  
**Cc:** Graham Basecke <graham@louthcallanrenewables.com>; Ashley Cintron <ashley@louthcallanrenewables.com>  
**Subject:** Re: Haddam Quarter Solar Farm



Kenneth:

Thank you for the electronic file to review of the proposed Haddam Quarter Solar Farm. One item of interest I found are the comments on the site and utility plan Sheet SP-1 which stated:

- PROP. OVERHEAD ELECTRIC (TYP.) (BY OTHERS)
- PROP. INTERCONNECTION POINT (SEE ELECTRICAL PLANS TO CONFIRM LOCATION)

I've checked on the CSC Docket 505 site for said Electrical Plans but found none.

Since both of these items directly tie into an Eversource pole (not noted on the Preliminary / Progress Plan on Sheet V-1) at the front of my 119 Johnson Lane property, I'd like to know more about them and what they will look like.

Thank you,  
Rick

Richard C. Hanley, P.E.  
Lucille A. Hanley, M.D.

111 Johnson Lane  
Durham, CT 06422-1808

Phone: 860-349-0012  
Cell: 860-918-3217  
Email: [durhamct@gmail.com](mailto:durhamct@gmail.com)

On Fri, Jul 16, 2021 at 8:00 AM Baldwin, Kenneth <[KBALDWIN@rc.com](mailto:KBALDWIN@rc.com)> wrote:

Good morning Mr. Hanley

Attached is an electronic copy of the plans for the Johnson Lane Project as requested. Comments on the application can be sent to the Siting Council anytime now. You should reference Docket No. 505 to avoid your comments being misdirected.

The Council has not yet set a schedule or a hearing date. That will likely come in the next 30 days or so. All information on the Docket No. 505 matter will available on the Council's web site.

<https://portal.ct.gov/CSC>

Please also note that Dan Band is no longer with Louth Callan Renewables. I have copied Graham Baseke and Ashley Cintron on this email as the current contacts at LCR for the project.

Have a nice day.

## Kenneth C. Baldwin

Robinson & Cole LLP  
280 Trumbull Street  
Hartford, CT 06103  
Direct 860.275.8345 | Fax 860.275.8299  
[kbaldwin@rc.com](mailto:kbaldwin@rc.com) | [Bio](#) | [V-Card](#)

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**From:** Richard Hanley <[durhamct@gmail.com](mailto:durhamct@gmail.com)>  
**Sent:** Friday, July 16, 2021 4:09 AM  
**To:** Baldwin, Kenneth <[KBALDWIN@RC.com](mailto:KBALDWIN@RC.com)>  
**Cc:** Dan Band <[dan@louthcallanrenewables.com](mailto:dan@louthcallanrenewables.com)>  
**Subject:** Haddam Quarter Solar Farm

Kenneth:

I recently received a registered letter with the Haddam Quarter solar farm abutting owner notification. I am the property owner most closely affected by the solar farm, as my wife and I own the house at 111 Johnson Lane and vacant building lot at 119 Johnson Lane.

If possible, I would like to receive a PDF file of the maps provided as their resolution on 8.5"x11" paper is somewhat limiting for my aging vision. The file can be sent to the email listed below.

I would also like to know when the Siting Council will be taking comments or holding hearings on the application.

Thank you in advance.

Richard C. Hanley, P.E.  
Lucille A. Hanley, M.D.

111 Johnson Lane  
Durham, CT 06422-1808

Phone: 860-349-0012  
Cell: 860-918-3217  
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## Baldwin, Kenneth

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**From:** Baldwin, Kenneth  
**Sent:** Wednesday, July 28, 2021 2:59 PM  
**To:** Sharon Wysocki  
**Subject:** RE: Haddam Quarter Solar, LLC Application for Certificate of Environmental Compatibility  
**Attachments:** CT671100\_HaddamQuarterSolar\_ZD\_Rev0\_24x36\_Stamped.pdf

Ms. Wysocki

This is in response to your July 23, 2021 email.

Attached is a PDF of the Project Plans that were included in the Siting Council application for your review. You should be able to zoom-in on those portions of the plans that were difficult to read on the paper copies sent with our notice to abutters. You should know that a complete copy of the Siting Council application package is available for viewing on the Council's web site [https://portal.ct.gov/CSC/1\\_Applications-and-Other-Pending-Matters/Applications/4\\_DocketNos500s/Docket-No-505](https://portal.ct.gov/CSC/1_Applications-and-Other-Pending-Matters/Applications/4_DocketNos500s/Docket-No-505)

The Applicant and owner of the facility is Haddam Quarter Solar LLC, a wholly owned subsidiary of Louth Callan Renewables, 921 Thrall Ave, Suffield CT . This information is available on pp. 1-2 of the application narrative.

Louth Callan discussed during the local meetings that there were potentially two different Siting Council processes for facilities less than 2 MW and greater than 2 MW. The Haddam Quarter facility was presented in the local technical report as a 2.3 MW facility. Once its full site evaluation and project design was completed, Louth Callan was able to increase the renewable energy output from the facility to 2.8 MW. This change was made prior to the first public information session conducted by the Town. This slight increase in power output does not change the nature of the Siting Council process in any way.

All changes included in the application were referenced in the notices sent out to abutters prior to the submission of the application (Attachment 2 of the application) and the Town.

The increase in power output is a result of the applicant intended use of different inverters. The overall limits of disturbance, including tree clearing, has not changed from the preliminary plan discuss with the Town and local residents during the municipal consultation process.

The landscape plan was not developed at the time when the application was presented to the Town and the local residents during the municipal consultation process. Details of the landscaping plan will be developed through the Council process. The planting plan presented in the application is the same as that presented at the second public information session. As stated in the application "*[t]he Facility will be surrounded by a 7-foot tall farm style fence. Seven species of native trees and shrubs will be interspersed along the Facility's boundary. The proposed plantings will replace non-native invasive species and provide food and habitat for birds and small animals*".

Finally, the timeline for the application, including a date for the public hearing will be formally established by the Siting Council at its regular business meeting on Thursday July 29, 2021. That schedule will be posted on the Council's web page for Docket No. 505.

If you have any other questions please reach out. Thank you.

Ken

**Kenneth C. Baldwin**

Robinson & Cole LLP

280 Trumbull Street  
Hartford, CT 06103  
Direct 860.275.8345 | Fax 860.275.8299  
[kbaldwin@rc.com](mailto:kbaldwin@rc.com) | [Bio](#) | [V-Card](#)

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**Robinson+Cole**  
Embracing Change for Over 175 Years

Our cross-disciplinary team continues to closely monitor COVID-19 legal implications - resources [HERE](#)

Boston | Hartford | New York | Providence | Miami | Stamford  
Los Angeles | Wilmington | Philadelphia | Albany | [www.rc.com](http://www.rc.com)

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**From:** Sharon Wysocki <[wysockishar@yahoo.com](mailto:wysockishar@yahoo.com)>  
**Sent:** Friday, July 23, 2021 8:35 AM  
**To:** Baldwin, Kenneth <[KBALDWIN@RC.com](mailto:KBALDWIN@RC.com)>  
**Cc:** ken.williams@comcast.net; markari@comcast.net; Olive Wysocki <[ordwysocki@gmail.com](mailto:ordwysocki@gmail.com)>  
**Subject:** Haddam Quarter Solar, LLC Application for Certificate of Environmental Compatibility

Dear Ken,

I read through the documentation you sent to the abutting landowners on the above submission to the CT Siting Council. I, along with some of the neighbors and abutting landowners, have a couple of requests followed by questions:

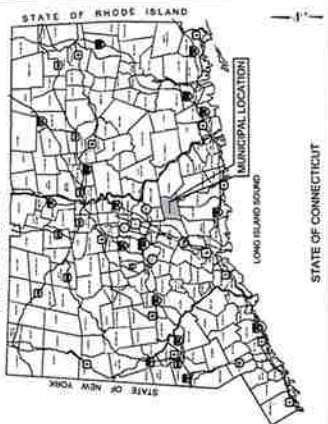
*Can you provide a larger scale copy of the documents (they were very difficult to read)?*  
*What is the name and mailing address of the legal owner of the project?*  
*Are there other documents which were filed and if so, can we obtain copies?*

Our understanding, and what was presented to us by Louth Callan during the Public Hearings, is that the project was going to be 2MW or less. Now, it appears the project is a 2.8MW facility. With that said...

*Will this change the requirements with regards to approval from the CT Siting Council and in what way?*  
*Has the Town of Durham and surrounding homeowners been specifically advised of these changes?*  
*How many panels have been added?*  
*What is the impact on the site with the additional panels and will it affect tree cutting?*  
*Does this change the current landscaping plan?*  
*Can you provide a project plan document with timelines?*  
*Have any CT Siting Council meeting dates been set?*

We appreciate your time addressing our questions.

Kind Regards,  
Sharon Wysocki



# LOUTH CALLAN RENEWABLES

## "HADDAM QUARTER SOLAR, LLC"

### JOHNSON LANE DURHAM, CT

#### LIST OF DRAWINGS

- T-1 TITLE SHEET & INDEX
- 1 OF 1 EXISTING CONDITIONS PLAN PROVIDED BY DESIGN PROFESSIONALS, INC.
- GN-1 GENERAL NOTES
- OP-1 OVERALL LOCUS MAP
- EC-1 SEDIMENTATION & EROSION CONTROL NOTES
- EC-2 SEDIMENTATION & EROSION CONTROL DETAILS
- EC-3 PHASE 1 SEDIMENTATION & EROSION CONTROL PLAN
- EC-4 PHASE 2 SEDIMENTATION & EROSION CONTROL PLAN
- GD-1 FINAL GRADING & DRAINAGE PLAN
- SP-1 SITE & UTILITY PLAN
- DN-1 SITE DETAILS
- DN-2 SITE DETAILS

#### SITE INFORMATION

**SITE NAME:** HADDAM QUARTER SOLAR, LLC  
**LOCATION:** JOHNSON LANE, DURHAM, CT

**SITE TYPE/DESCRIPTION:** ADD (1) GROUND MOUNTED SOLAR PANEL ARRAY W/ ASSOCIATED EQUIPMENT, GRAVEL ACCESS ROAD, AND STORMWATER MANAGEMENT.

**PROPERTY OWNER:** NEWTON FAMILY TRUST CO, 1270 ARBUS ST, DURHAM, CT 06422

**APPLICANT:** LOUTH CALLAN RENEWABLES, 92 THRAL AVE, SUFFIELD, CT 06076

**ENGINEER CONTACT:** KEVIN A. MCCAFFERY, P.E., (860) 663-1627, 226

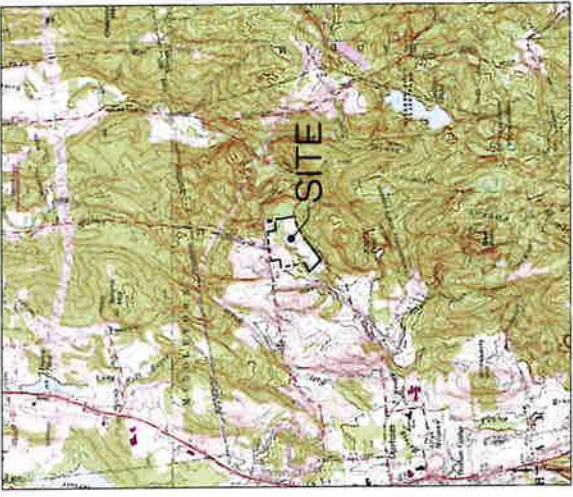
**LATITUDE:** 41°29'16.86" N  
**LONGITUDE:** 72°39' 04" W  
**ELEVATION:** 312± ANSL

**MBLU:** 1B-22  
**ZONE:** R1

**TOTAL SITE AREA:** 49.00± AC  
**TOTAL AREA:** 10.00± AC  
**SOLAR FACILITY AREA:** 8.93± AC

**APPROX. VOLUME OF CUT:** 686± CY  
**APPROX. VOLUME OF FILL:** 217± CY  
**APPROX. NET VOLUME:** 471± CY OF CUT

#### USGS TOPOGRAPHIC MAP



**ALL-POINTS TECHNOLOGY CORPORATION**  
 80 MAIN STREET, FERRISBURGH, NEW YORK 11733  
 WWW.ALLPOINTS.TECH.COM FAX: 800-496-8282

NO.	DATE	REVISION
1	08/27/21	FOR REVIEW, IAW
2		
3		
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5		
6		

**DESIGN PROFESSIONAL OF RECORD**  
 PROFESSIONAL ENGINEER  
 CORP. ALL-POINTS TECHNOLOGY CORPORATION, P.E.  
 ADD: EXTENSION 1 - SUITE 311  
 WATERFORD, CT 06425

**OWNER:** NEWTON FAMILY TRUST CO  
 ADDRESS: 1270 ARBUS ST  
 DURHAM, CT 06422

**HADDAM QUARTER SOLAR, LLC**

**SITE:** JOHNSON LANE  
 ADDRESS: DURHAM, CT

**APP. FILING NUMBER:** CT071100

**DATE:** 08/27/21 **CHECKED BY:** KAM  
**DRAWN BY:** JT

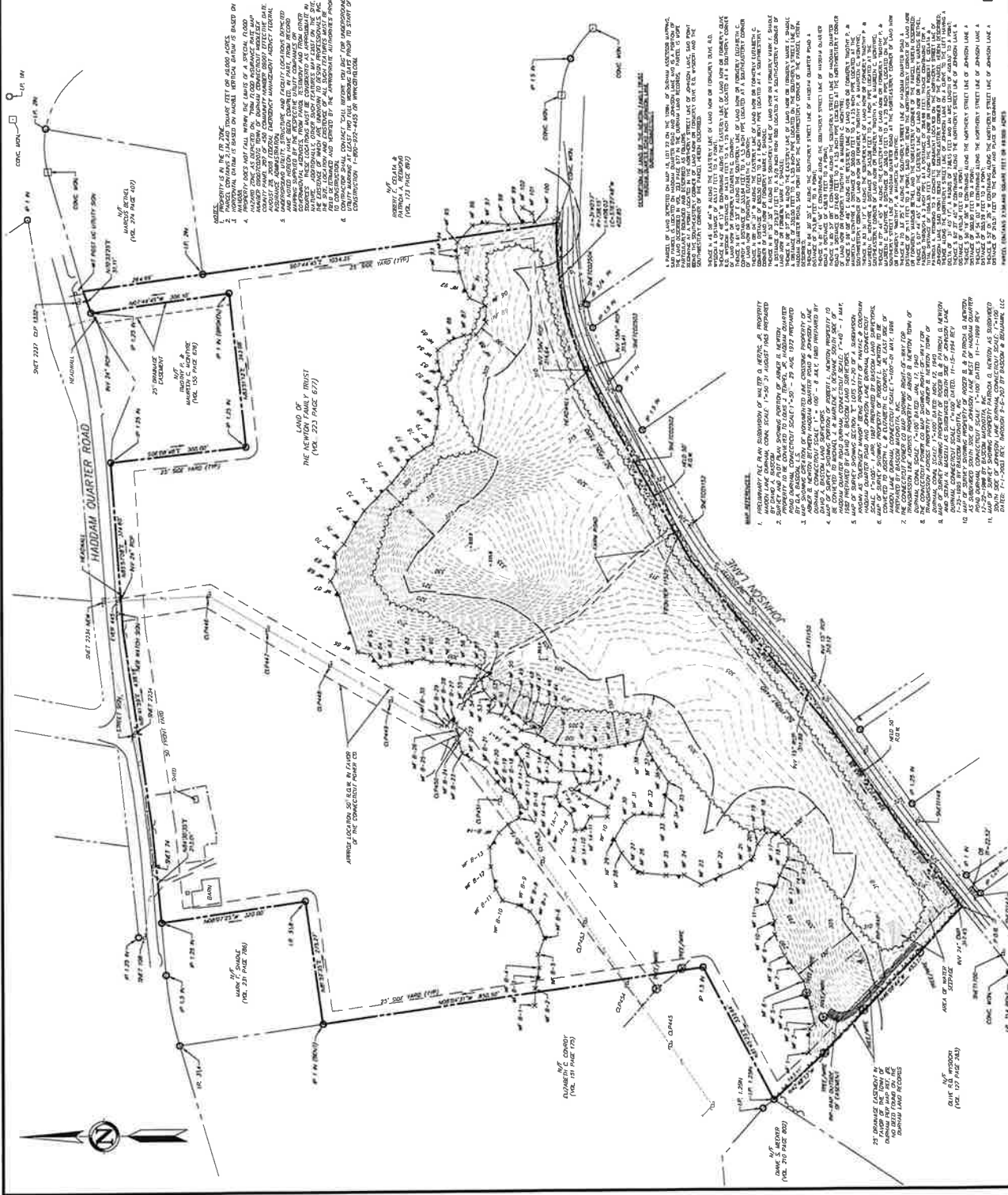
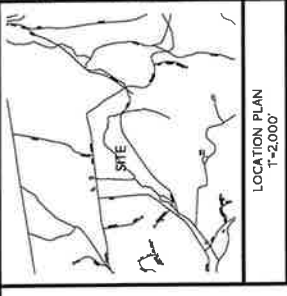
**SHEET TITLE:**  
**TITLE SHEET & INDEX**

**SHEET NUMBER:**  
**T-1**

PRELIMINARY / PROGRESS PLAN

THIS SURVEY AND MAP HAS BEEN PREPARED PURSUANT TO THE PROVISIONS OF MASSACHUSETTS STATUTE CHAPTER 270A, SECTIONS 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

LEGEND table with columns: SYMBOLS, DESCRIPTION, and NOTES. Includes symbols for Easement, Right of Way, Property Line, etc.









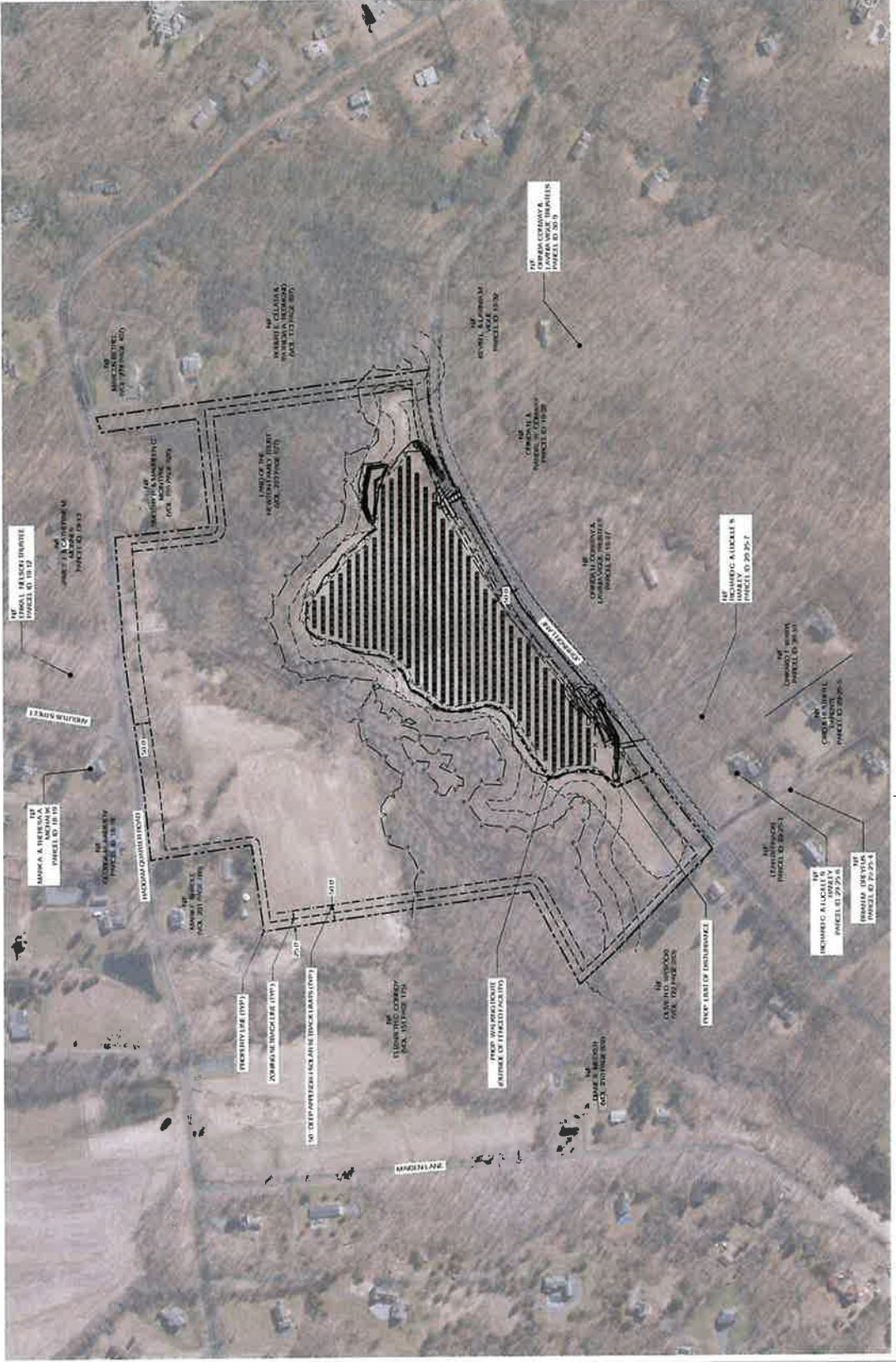
**ALL-POINTS TECHNOLOGY CORPORATION**  
 84 NATIONAL STREET EXTENSION SUITE 311  
 WATERTOWN, CT 06895  
 WWW.ALLPOINTSCT.COM FAX: 860.946.6888

CSC PERMIT SET		
NO.	DATE	REVISION
1		ISSUE FOR REVIEW - KAM
2		
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DESIGN PROFESSIONAL OF RECORD:  
 JOHN A. JOHNSON, P.E.  
 JOHN A. JOHNSON & ASSOCIATES, INC.  
 1000 WESTERN AVENUE SUITE 200  
 WATERTOWN, CT 06895  
 PHONE: 860.946.6888  
 ADDRESS: 1000 WESTERN AVENUE SUITE 200  
 WATERTOWN, CT 06895

HADDAM QUARTER SOLAR, LLC  
 SITE: JOHNSON LANE  
 ADDRESS: CHESHAM, CT  
 APPLICANT: JOHN A. JOHNSON & ASSOCIATES, INC.  
 DRAWN BY: JJ  
 CHECKED BY: KAM  
 DATE: 08/20/2014

SHEET TITLE:  
**OVERALL LOCUS MAP**  
 SHEET NUMBER:  
**OP-1**



OVERALL LOCUS MAP  
 SCALE: 1" = 100'





1000 South Main Street  
 Danbury, CT 06810  
 203-755-1100  
 www.allpointstech.com

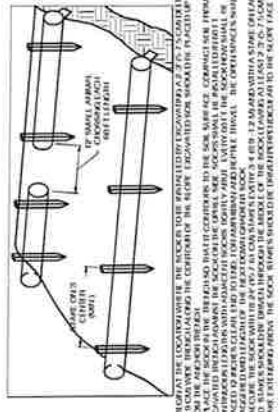
NO.	DATE	REVISION
1		ISSUED FOR PERMIT SET
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DESIGN PROFESSIONAL OF RECORD  
 HADDAM QUARTER SOLAR, LLC  
 1000 SOUTH MAIN STREET  
 DANBURY, CT 06810  
 203-755-1100  
 www.allpointstech.com

OWNER: HADDAM QUARTER SOLAR, LLC  
 ADDRESS: 1000 SOUTH MAIN STREET  
 DANBURY, CT 06810

DATE: 08/21/21  
 DRAWN BY: JF  
 CHECKED BY: MAM

SHEET TITLE: SEDIMENTATION & EROSION CONTROL DETAILS  
 SHEET NUMBER: EC-2



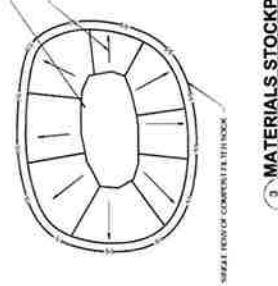
4 COMPOST FILTER SOCK  
 SCALE: 1/8" = 1'-0"

1. INSTALL THE SOCK IN THE TRENCH WITH THE SOCK'S TOP SURFACE FLUSH WITH THE SURFACE OF THE EXISTING CONCRETE OR ASPHALT. THE SOCK'S BOTTOM SURFACE SHOULD BE IN CONTACT WITH THE TRENCH'S BOTTOM SURFACE.  
 2. PLACE THE SOCK IN THE TRENCH SO THAT IT IS CENTERED TO THE SLOPE. CONNECT THE SOCK TO THE EXISTING CONCRETE OR ASPHALT SURFACE WITH A 1/2" DIA. GALVANNEAL STEEL ROD. THE ROD SHOULD BE PLACED THROUGH THE SOCK'S END TO THE EXISTING CONCRETE OR ASPHALT SURFACE.  
 3. SECURE THE SOCK WITH A 2" DIA. GALVANNEAL STEEL ROD. THE ROD SHOULD BE PLACED THROUGH THE SOCK'S END TO THE EXISTING CONCRETE OR ASPHALT SURFACE.



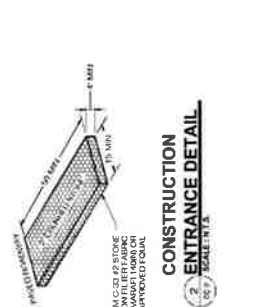
3 MATERIALS STOCKPILE DETAIL  
 SCALE: 1/8" = 1'-0"

1. RESTORE STOCKPILE SITES TO ORIGINAL OR BETTER CONDITION AND EXCEED 2% STOCKPILE SLOPES. SLOPES SHALL BE 2:1 OR FLATTER.



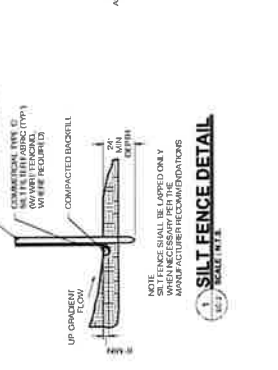
2 CONSTRUCTION ENTRANCE DETAIL  
 SCALE: 1/8" = 1'-0"

1. PLACE FILTER SOCK IN THE TRENCH WITH THE SOCK'S TOP SURFACE FLUSH WITH THE SURFACE OF THE EXISTING CONCRETE OR ASPHALT. THE SOCK'S BOTTOM SURFACE SHOULD BE IN CONTACT WITH THE TRENCH'S BOTTOM SURFACE.



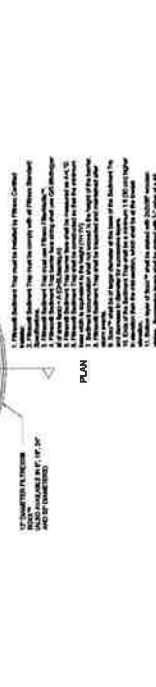
1 SILT FENCE DETAIL  
 SCALE: 1/8" = 1'-0"

1. SILT FENCE SHALL BE LAPPED ONLY WHEN NECESSARY PER THE MANUFACTURER'S RECOMMENDATIONS.



5 FILTER TRAP  
 SCALE: 1/8" = 1'-0"

1. PLACE FILTER SOCK IN THE TRENCH WITH THE SOCK'S TOP SURFACE FLUSH WITH THE SURFACE OF THE EXISTING CONCRETE OR ASPHALT. THE SOCK'S BOTTOM SURFACE SHOULD BE IN CONTACT WITH THE TRENCH'S BOTTOM SURFACE.



4 SEDIMENTATION TRAP  
 SCALE: 1/8" = 1'-0"

3 SEDIMENTATION TRAP  
 SCALE: 1/8" = 1'-0"

5 FILTER TRAP  
 SCALE: 1/8" = 1'-0"

1. PLACE FILTER SOCK IN THE TRENCH WITH THE SOCK'S TOP SURFACE FLUSH WITH THE SURFACE OF THE EXISTING CONCRETE OR ASPHALT. THE SOCK'S BOTTOM SURFACE SHOULD BE IN CONTACT WITH THE TRENCH'S BOTTOM SURFACE.

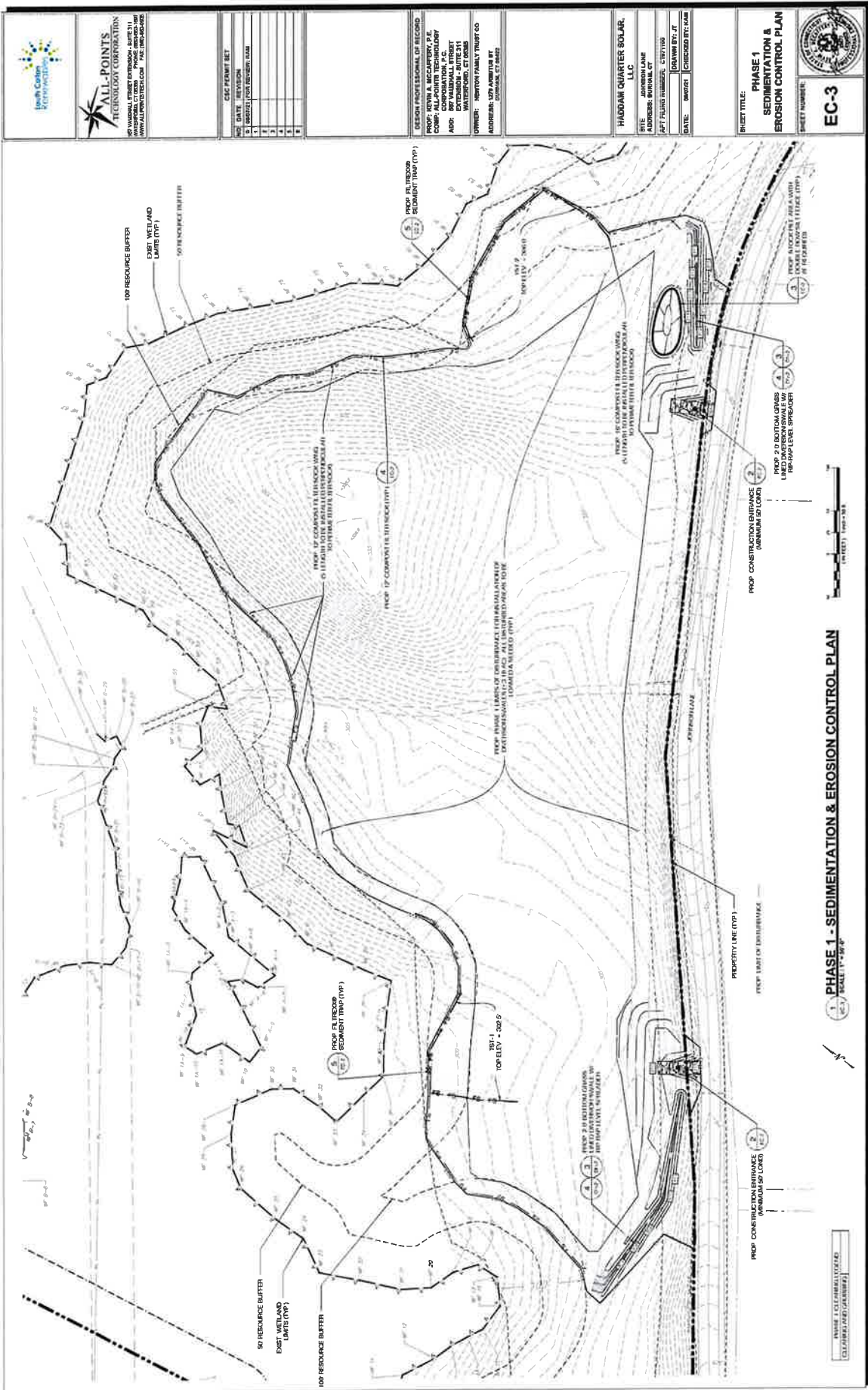
1. PLACE FILTER SOCK IN THE TRENCH WITH THE SOCK'S TOP SURFACE FLUSH WITH THE SURFACE OF THE EXISTING CONCRETE OR ASPHALT. THE SOCK'S BOTTOM SURFACE SHOULD BE IN CONTACT WITH THE TRENCH'S BOTTOM SURFACE.

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1. PLACE FILTER SOCK IN THE TRENCH WITH THE SOCK'S TOP SURFACE FLUSH WITH THE SURFACE OF THE EXISTING CONCRETE OR ASPHALT. THE SOCK'S BOTTOM SURFACE SHOULD BE IN CONTACT WITH THE TRENCH'S BOTTOM SURFACE.



SCALE 1" = 40'

PHASE 1 - SEDIMENTATION & EROSION CONTROL PLAN



DATE: 08/21/2024  
 CHECKED BY: KAM



**PHASE 1**  
**SEDIMENTATION &**  
**EROSION CONTROL PLAN**

SHEET NUMBER: **EC-3**

DATE: 08/21/2024  
 CHECKED BY: KAM

DRAWN BY: JT

PROJECT NUMBER: 240100

ADDRESS: BURNHAM CT

CITY: BURNHAM CT

STATE: CT

PROJECT: HADJIM QUARTER SOLAR, LLC

OWNER: HADJIM QUARTER SOLAR, LLC

PROJECT ADDRESS: 105 HADJIM QUARTER DRIVE, BURNHAM, CT 06402

DESIGN PROFESSIONAL OF RECORD: HADJIM QUARTER SOLAR, LLC

PROJECT LOCATION: 105 HADJIM QUARTER DRIVE, BURNHAM, CT 06402

DATE: 08/21/2024

DATE: 08/21/2024

DATE: 08/21/2024

DATE: 08/21/2024

DATE: 08/21/2024

DATE: 08/21/2024

DATE: 08/21/2024

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DATE: 08/21/2024

DATE: 08/21/2024



**ALL-POINTS  
TECHNOLOGY CORPORATION**  
141 FURNIVAL STREET, SUITE 200, JEFFERSONVILLE, IN 47130  
WWW.ALLPOINTS.TECH.COM 800.388.0248

CSC PERMIT SET	
NO.	DATE / REVISION
1	ISSUED FOR REVIEW / 04/08
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DESIGN PROFESSIONAL OF RECORD  
 GEORGE W. WATSON & ASSOCIATES, INC.  
 10000 N. STATE STREET, SUITE 300  
 INDIANAPOLIS, IN 46240  
 P: 317.561.2100  
 F: 317.561.2101  
 WWW.GW&A.COM  
 GEORGE W. WATSON, P.E.  
 REGISTERED PROFESSIONAL ENGINEER  
 LICENSE NO. 15120  
 WATSON, GEORGE W. & ASSOCIATES, INC.  
 10000 N. STATE STREET, SUITE 300  
 INDIANAPOLIS, IN 46240  
 P: 317.561.2100  
 F: 317.561.2101  
 WWW.GW&A.COM

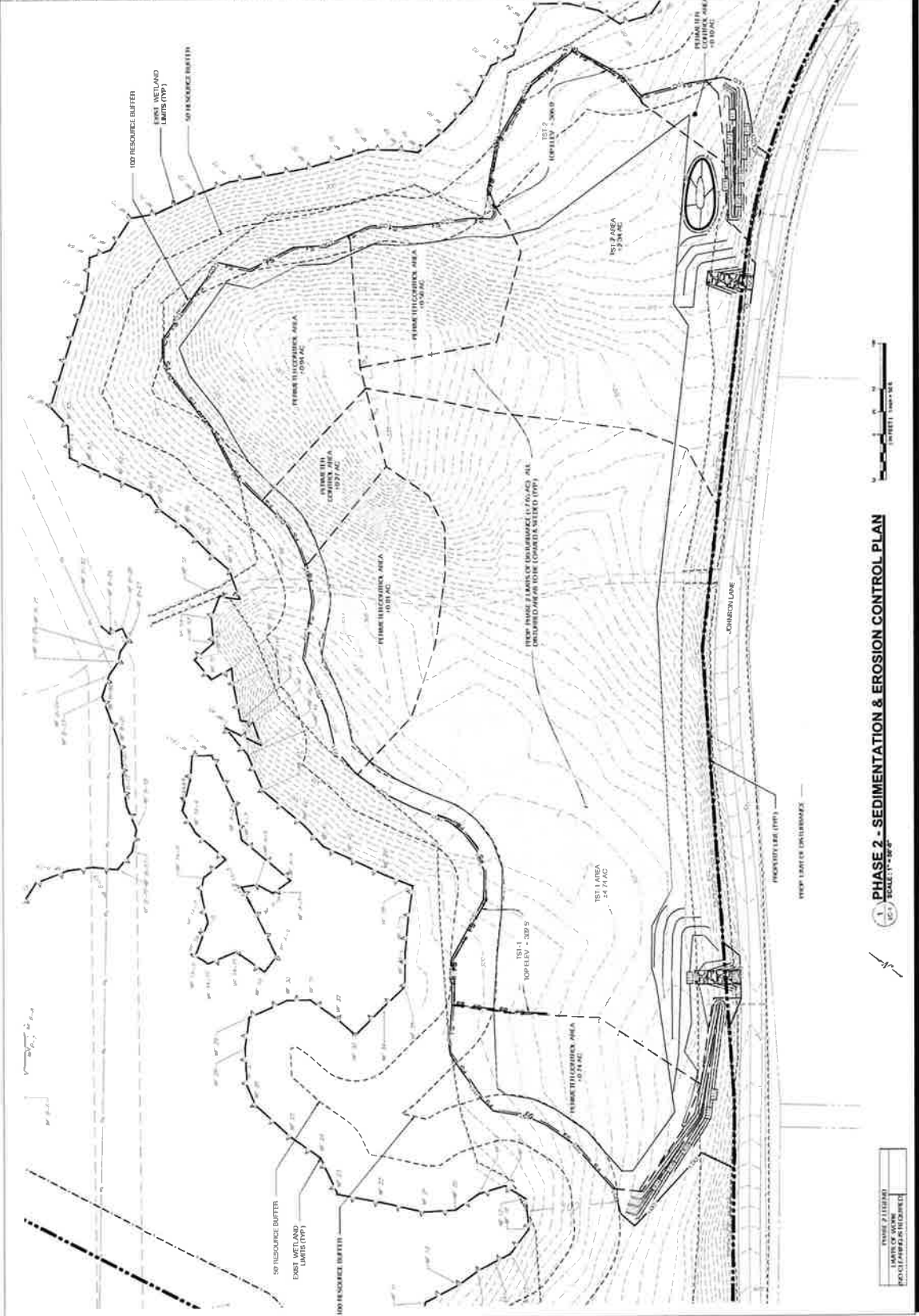
OWNER: HADDAM QUARTER POLAR, LLC  
 ADDRESS: 10000 N. STATE STREET  
 SUITE 300  
 INDIANAPOLIS, IN 46240

SITE: JOHNSON LANE  
 ADDRESS: JOHNSON LANE  
 CITY/TOWNSHIP: CANTON/IN  
 COUNTY: JOHNSON COUNTY, IN  
 PROJECT NUMBER: 2017001  
 DRAWN BY: JF  
 DATE: 08/21/17  
 CHECKED BY: KAM

SHEET TITLE:  
**PHASE 2 -  
 SEDIMENTATION &  
 EROSION CONTROL PLAN**



SHEET NUMBER:  
**EC-4**



**PHASE 2 - SEDIMENTATION & EROSION CONTROL PLAN**  
 SCALE: 1" = 20'-0"

PHASE 2 (TYPICAL)  
 LIMITS OF WORK  
 PROJECT PAPER AS SUBMITTED



**ALL-POINTS**  
TECHNOLOGY CORPORATION  
187 NATIONAL STREET, SUITE 210  
WATERBURY, CT 06705  
WWW.ALLPOINTSCT.COM FAX: 800-862-8282

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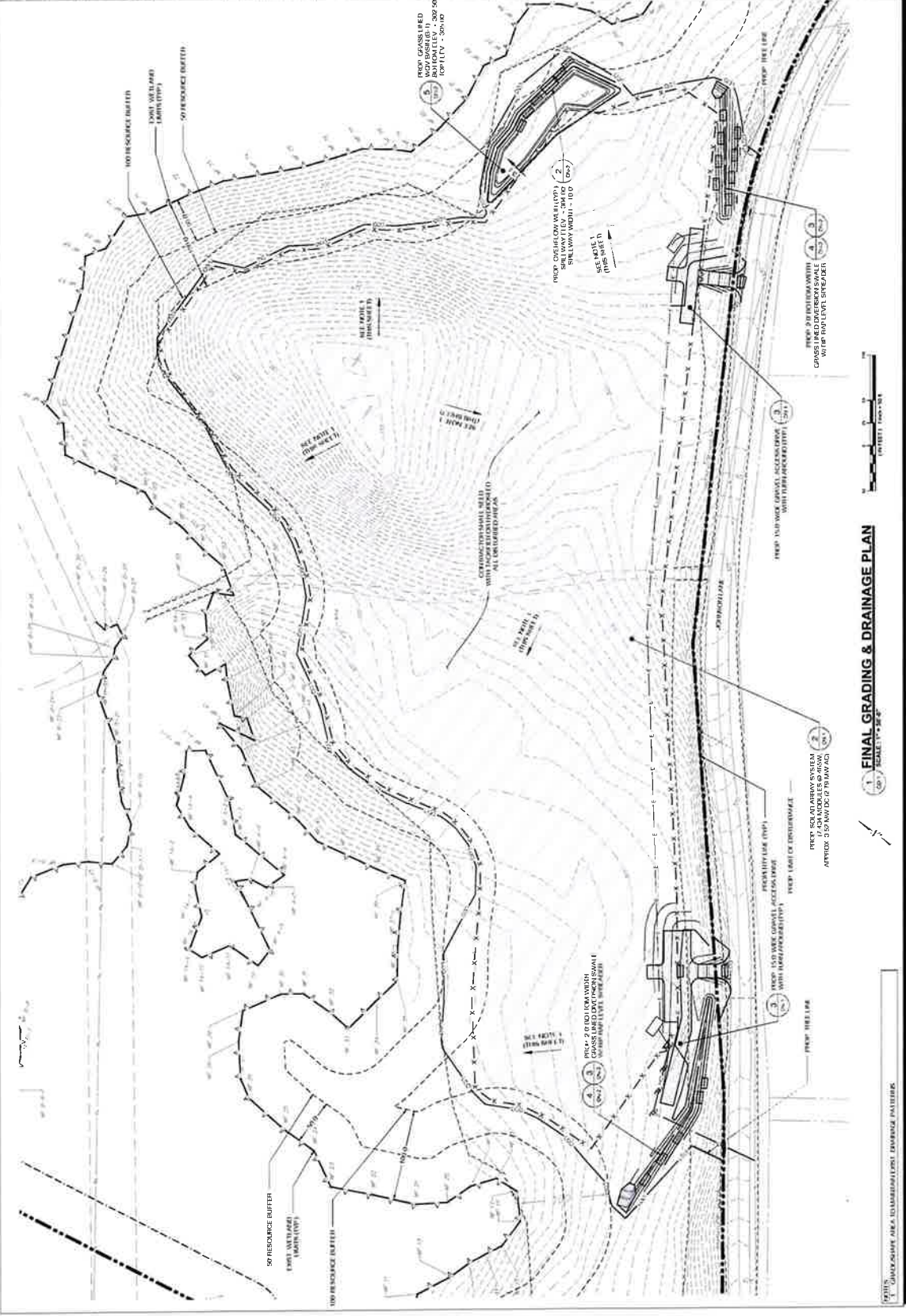
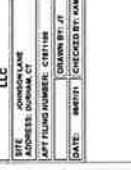
CSC PERMIT SET

DESIGN PROFESSIONAL OF RECORD  
PROP: NETA A. MCCORMY P.E.  
4300 WASHINGTON BLVD  
CORPORATION 2  
AID: EXTENSION - SUITE 311  
WATERBURY, CT 06705  
OWNERS: NEWTON FAMILY TRUST CO  
ADDRESS: 479 ANTHONY ST  
WATERBURY, CT 06705

HADDAM QUARTER SOLAR, LLC  
SITE: 4000 LANE  
ADDRESS: DORRANCE CT  
APT FILING NUMBER: C171188  
DRAWN BY: JZ  
DATE: 08/27/14 CHECKED BY: JAM

SHEET TITLE:  
**FINAL GRADING & DRAINAGE PLAN**

SHEET NUMBER:  
**GD-1**



**FINAL GRADING & DRAINAGE PLAN**  
SCALE: 1" = 20'-0"

DATE: 08/27/14  
DRAWN BY: JZ  
CHECKED BY: JAM

**Louis Caputo**  
 P.E. License No. 14007  
 40 WALL STREET, FLOOR 26, NEWTON, MA 02459  
 617-375-8800  
**ALL-POINTS  
 TECHNOLOGY CORPORATION**  
 100 NATIONAL STREET, EXTENSION 311, SUITE 211  
 WATERLOO, CT 06495  
 860-342-3268

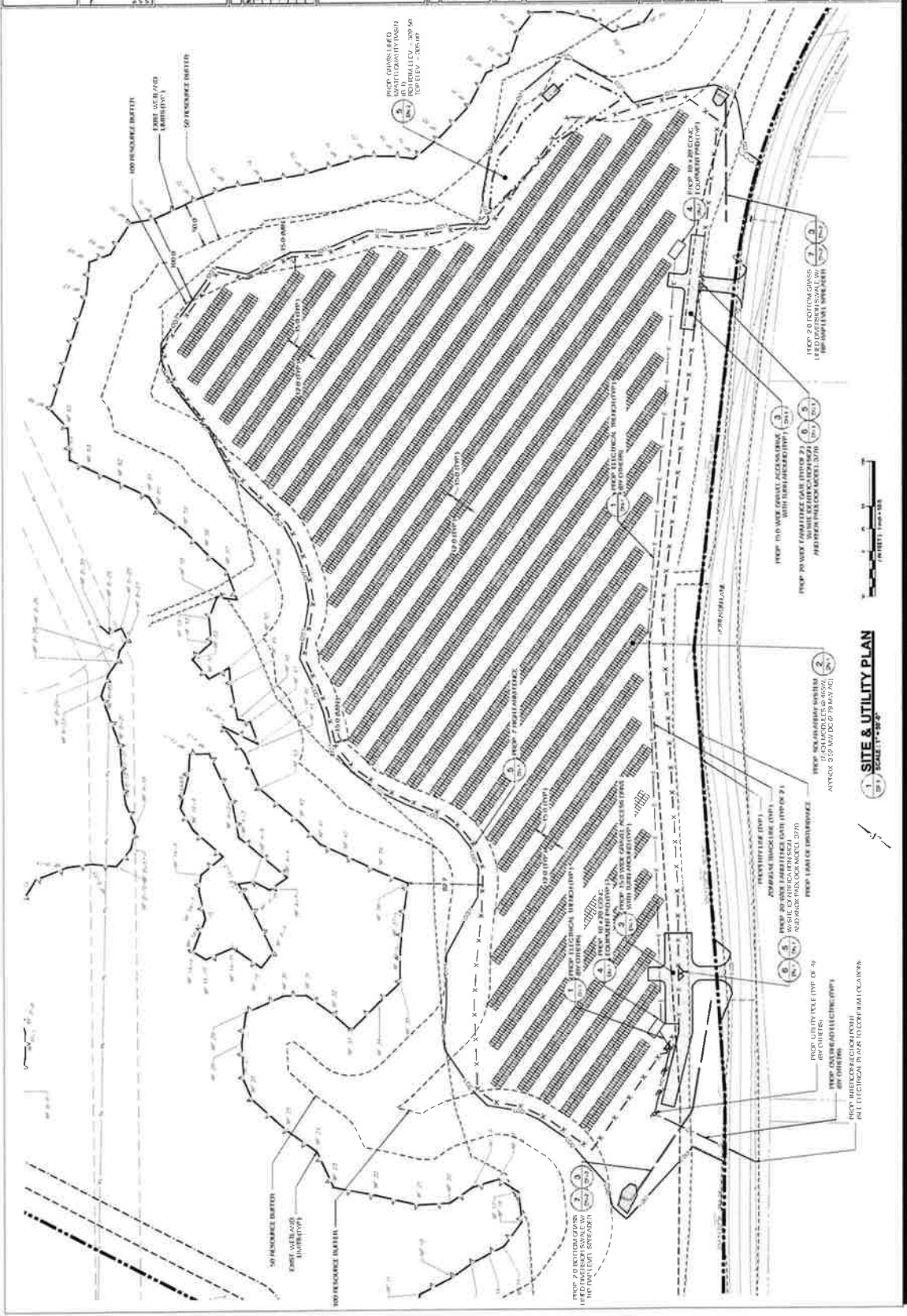
CSC PERMIT SET		
NO.	DATE	REVISION
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**DESIGN PROFESSIONAL OF RECORD**  
 LUIS CAPUTO, P.E.  
 ALL-POINTS TECHNOLOGY CORPORATION, P.C.  
 100 NATIONAL STREET, EXTENSION 311, SUITE 211  
 WATERLOO, CT 06495  
 PHONE: 860-342-3268  
 ADDRESS: 100 NATIONAL STREET, SUITE 211  
 WATERLOO, CT 06495

**HADDAM QUANTER SOLAR, LLC**  
 SITE: 100 HADAM QUANTER LANE  
 ADDRESS: HADDAM, CT  
 APT. FILING NUMBER: CT51748  
 DRAWN BY: JF  
 DATE: 08/01/17  
 CHECKED BY: JAM

**SHEET TITLE**  
**SITE & UTILITY PLAN**

**SHEET NUMBER**  
**SP-1**



**SITE & UTILITY PLAN**  
 SCALE: 1" = 100'



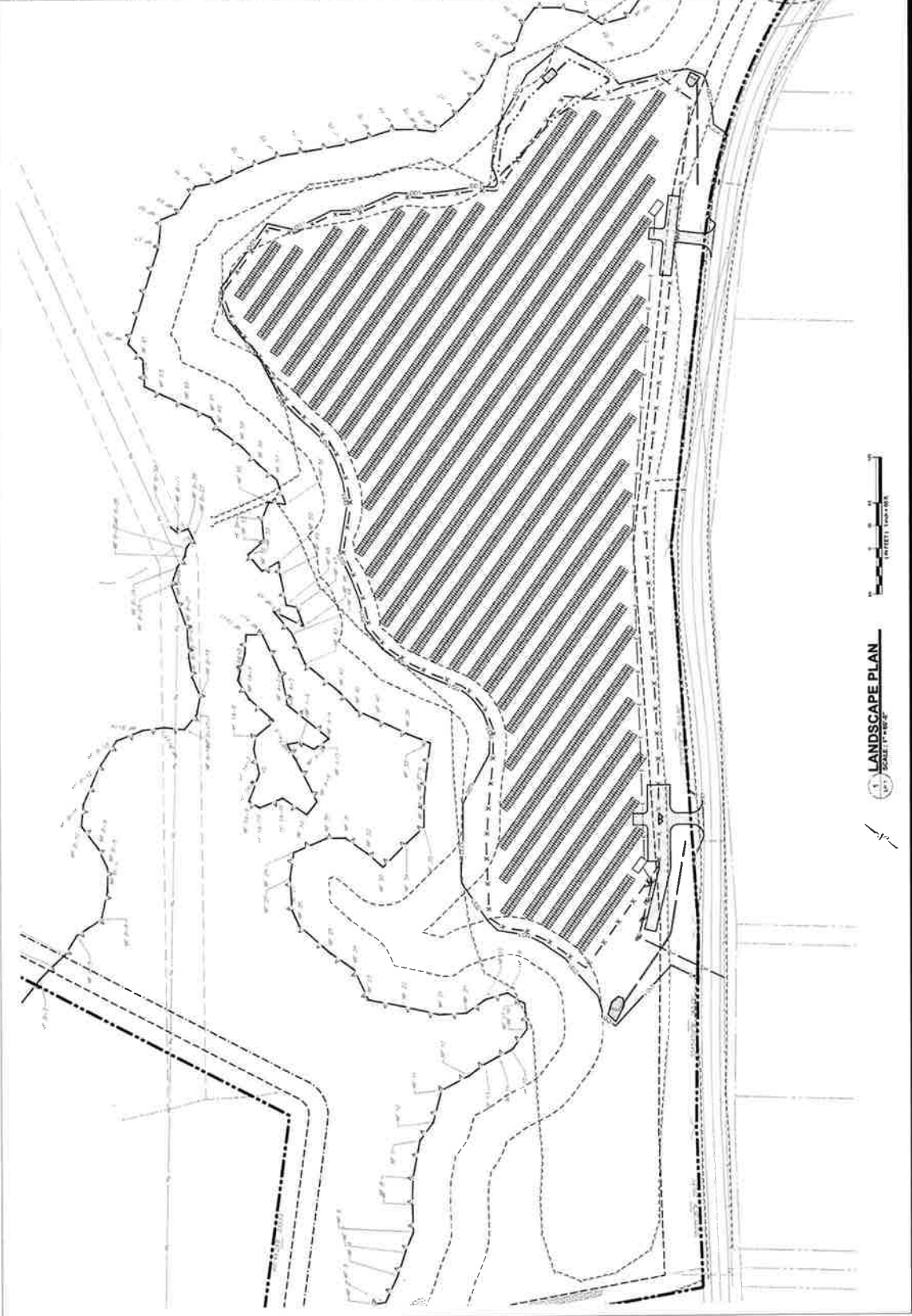
**ALL-POINTS**  
TECHNOLOGY CORPORATION  
500 NATIONAL STREET, EXTENSION 1, SUITE 214  
WATERBURY, CT 06705  
WWW.ALLPOINTSCT.COM FAX: 860.245.0000

CSC PERMIT SET	
NO.	DATE / REVISION
1	ISSUED FOR REVIEW - KAM
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DESIGN PROFESSIONAL OF RECORD  
JOHN A. WATSON, P.E., REGISTERED PROFESSIONAL ENGINEER  
STATE OF CONNECTICUT  
CORP. ALL-POINTS TECHNOLOGY CORPORATION, P.C.  
ATTN: JOHN A. WATSON, P.E.  
ADD: EXTENSION 1, SUITE 214  
WATERBURY, CT 06705  
OWNER: HERRICK FAMILY TRUST CO  
ADDRESS: 179 AMHERST ST  
WATERBURY, CT 06705

**HADDAM QUARTER SOLAR, LLC**  
SITE: JOHNSON LANE  
ADDRESS: HADDAM, CT  
APT FILING NUMBER: CIV11100  
CIVILIAN SET: JT  
DATE: 08/20/11 CHECKED BY: KAM

SHEET TITLE:  
**LANDSCAPE PLAN**  
SHEET NUMBER:  
**LP-1**



LANDSCAPE PLAN  
SCALE: 1" = 40'-0"





**REVISIONS**

NO.	DATE	REVISION
1		ISSUE FOR REVIEW RUM
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**DESIGN PROFESSIONAL OF RECORD**  
 PROP: REVVA L. MCCAFFERTY P.E.  
 C&S CORPORATION, INC.  
 1000 WASHINGTON STREET  
 WATERFORD, CT 06495

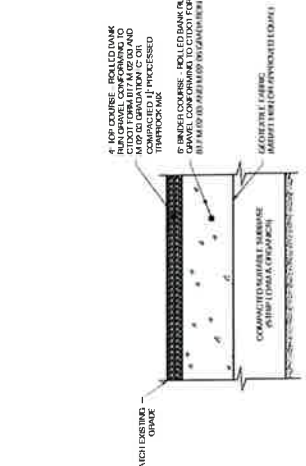
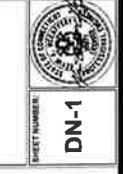
**OWNER:** ERNST SOLAR FARM, LLC  
 1000 WASHINGTON STREET  
 WATERFORD, CT 06495

**HADDAM QUARTER SOLAR, LLC**  
 1000 WASHINGTON STREET  
 WATERFORD, CT 06495

**DATE:** 09/21/17  
**SCALE:** AS SHOWN

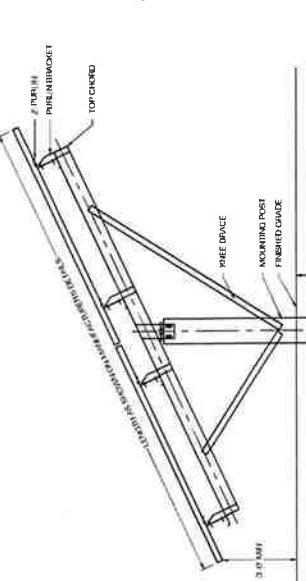
**SHEET NUMBER:** DN-1

**SHEET TITLE:** SITE DETAILS



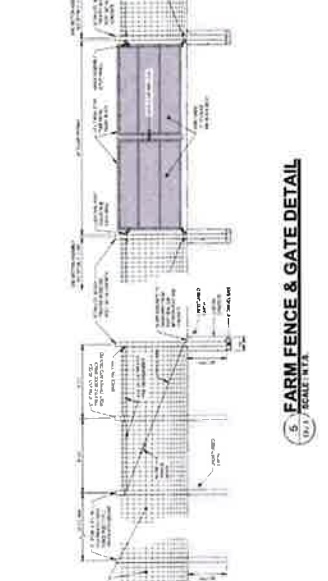
**NOTES:**  
 1. SUBBASE MAY CONSIST OF NATIVE MATERIALS IF FOUND ACCEPTABLE BY THE ENGINEER. SUBBASE TO BE COMPACTED TO 100% MAX DRY.  
 2. SUBBASE IS TO BE FREE FROM DEBRIS AND UNSUITABLE MATERIALS.

**3. GRAVEL ACCESS DRIVE SECTION**  
 (N/A) SCALE: N/A

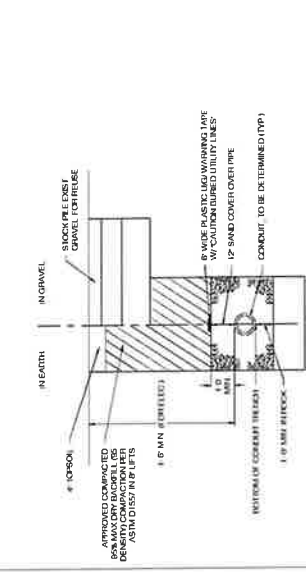


**NOTES:**  
 1. SEE ELECTRICAL PERMITTING SYSTEM REQUIREMENTS AND PERMITTING AGENCIES FOR PERMITTED ACCESSORIES WITH REGARD TO LIGHTNING PROTECTION.

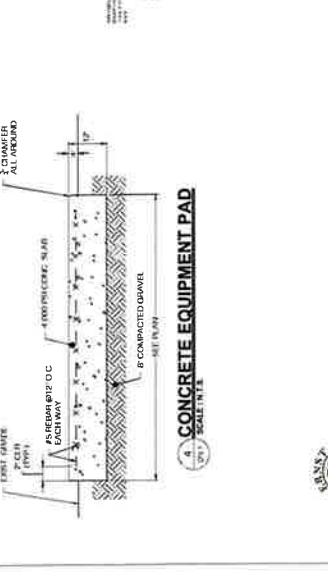
**2. TYPICAL POST MOUNTED RACKING SYSTEM**  
 (N/A) SCALE: N/A



**5. FARM FENCE & GATE DETAIL**  
 (N/A) SCALE: N/A



**1. ELECTRICAL TRENCH DETAIL**  
 (N/A) SCALE: N/A



**7. CONCRETE EQUIPMENT PAD**  
 (N/A) SCALE: N/A

**Ernst Conservation Seeds**  
 1000 WASHINGTON STREET  
 WATERFORD, CT 06495  
 (860) 926-4500

**Ernst Solar Farms Seed Mix - ERNSTS-188**

Common Name	Proportion
15% 2" - 3" (20/40) Sph. 307	1.12
15% 2" - 3" (20/40) Sph. 307	1.12
15% 2" - 3" (20/40) Sph. 307	1.12
15% 2" - 3" (20/40) Sph. 307	1.12
15% 2" - 3" (20/40) Sph. 307	1.12
15% 2" - 3" (20/40) Sph. 307	1.12
15% 2" - 3" (20/40) Sph. 307	1.12
15% 2" - 3" (20/40) Sph. 307	1.12
15% 2" - 3" (20/40) Sph. 307	1.12
15% 2" - 3" (20/40) Sph. 307	1.12

Seed Weight: 6.35 lbs

**Ernst Solar Farm Seed Mix**  
 (N/A) SCALE: N/A



ALL-POINTS  
TECHNOLOGY CORPORATION  
1000 W. MAIN STREET, SUITE 200  
DURHAM, NORTH CAROLINA 27701  
WWW.ALLPOINTS.COM    PHONE: 919.486.1100  
FAX: 919.486.1101

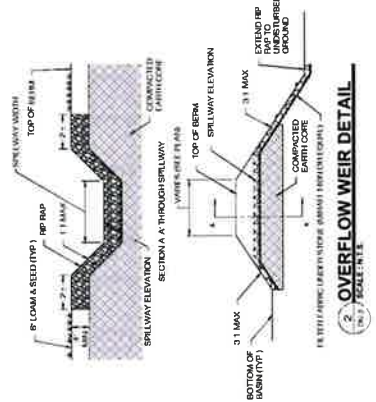
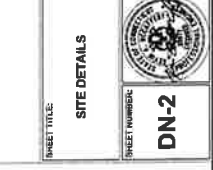
NO.	DATE	REVISION
1	08/20/2018	FOR RECORD, 300
2		
3		
4		
5		
6		

DESIGNED PROFESSIONAL OF RECORD  
2018  
ALL-POINTS TECHNOLOGY CORPORATION, P.C.  
ADDRESS: 1000 W. MAIN STREET  
DURHAM, NORTH CAROLINA 27701  
TELEPHONE: 919.486.1100  
FAX: 919.486.1101  
OWNER: HADDAM QUARTERS SOLAR, LLC  
ADDRESS: 200 MAIN STREET  
DURHAM, NORTH CAROLINA 27701

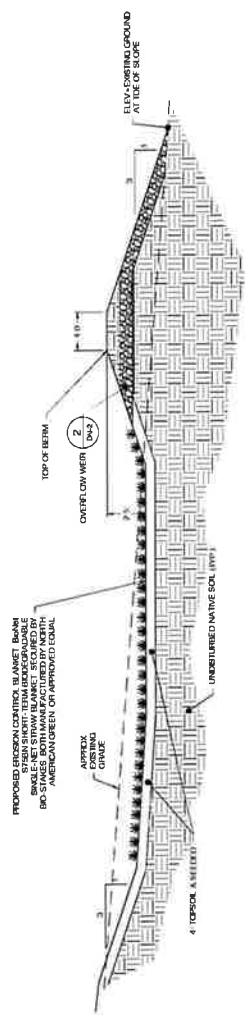
HADDAM QUARTERS SOLAR, LLC  
SITE: JOHNSON LAKE  
ADDRESS: DURHAM, CT  
APPROVAL NUMBER: CT01109  
DRAWN BY: JT  
DATE: 08/27/18  
CHECKED BY: NAM

SHEET TITLE:  
SITE DETAILS

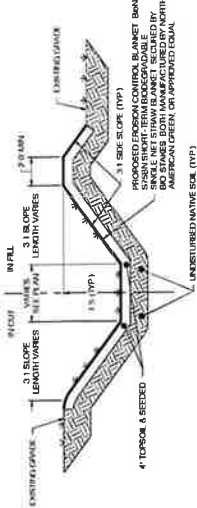
SHEET NUMBER:  
DN-2



OVERFLOW WEIR DETAIL  
SCALE: 1/8" = 1'-0"



GRASS LINED WATER QUALITY BASIN  
SCALE: 1/8" = 1'-0"



GRASS LINED SWALE  
SCALE: 1/8" = 1'-0"

NOTES  
1. 1' DEPTH VARIES FROM 1.5' DEPTH AT CULVERTS

# **ATTACHMENT 2**

# **Water Quality Protection Plan**

## **Spill Prevention Control Plan**

Certain precautions are necessary to store petroleum materials, refuel and contain and properly clean up any inadvertent fuel or petroleum (i.e., oil, hydraulic fluid, etc.) spill to avoid possible impact to nearby habitats.

A spill containment kit consisting of a sufficient supply of absorbent pads and absorbent material will be maintained by the Contractor at the construction site throughout the duration of the project. In addition, a waste drum will be kept on site to contain any used absorbent pads/material for proper and timely disposal off site in accordance with applicable local, state and federal laws.

The following petroleum and hazardous materials storage and refueling restrictions and spill response procedures will be adhered to by the Contractor.

1. Petroleum and Hazardous Materials Storage and Refueling
  - a. Refueling of vehicles or machinery shall occur within the Construction Laydown Area ONLY and shall take place on an impervious pad with secondary containment designed to contain fuels. This area is greater than 100' from a wetland
  - b. Any fuel or hazardous materials that must be kept on site shall be stored on an impervious surface utilizing secondary containment a minimum of 100 feet from wetlands or watercourses.
2. Initial Spill Response Procedures
  - a. Stop operations and shut off equipment.
  - b. Remove any sources of spark or flame.
  - c. Contain the source of the spill.
  - d. Determine the approximate volume of the spill.
  - e. Identify the location of natural flow paths to prevent the release of the spill to sensitive nearby waterways or wetlands.
  - f. Ensure that fellow workers are notified of the spill.
3. Spill Clean Up & Containment
  - a. Obtain spill response materials from the on-site spill response kit. Place absorbent materials directly on the release area.
  - b. Limit the spread of the spill by placing absorbent materials around the perimeter of the spill.
  - c. Isolate and eliminate the spill source.
  - d. Contact the appropriate local, state and/or federal agencies, as necessary.
  - e. Contact a disposal company to properly dispose of contaminated materials in accordance with all local, state and federal regulations.
4. Reporting
  - a. Complete an incident report.
  - b. Notify Regional Water Authority Control Room at 203-401-2629 (Staffed 24/7)
  - c. Submit a completed incident report to the appropriate Connecticut Department of Environmental Protection, Regional Water Authority, Municipal Official, Connecticut Siting Council and other applicable local, state and federal officials.

## **Waste Disposal**

Construction site waste shall be properly managed and disposed of during the entire construction period. Additionally;

- A waste collection area will be designated. The selected area will minimize truck travel through the site and will not drain directly to the adjacent wetlands.
- Waste collection shall be scheduled regularly to prevent the containers from overflowing.
- Spills shall be cleaned up immediately.
- Defective containers that may cause leaks or spills will be identified through regular inspection. Any found to be defective will be repaired or replaced immediately.
- Any stockpiling of materials should be confined to the designated area as defined by the engineer.

## **Washout Areas**

Washout of applicators, containers, vehicles and equipment for concrete shall be conducted in a designated washout area. No surface discharge of washout wastewaters from the area will be allowed. All concrete wash water will be directed into a container or pit such that no overflows can occur. Washout shall be conducted in an entirely self-contained system and will be clearly designed and flagged or signed where necessary. The washout area shall be located outside of any buffers and at least 50 feet from any stream, wetland or other sensitive water or natural resources as shown on the plans.

The designated area shall be designed and maintained such that no overflows can occur during rainfall or after snowmelt. Containers or pits shall be inspected at least once a week to ensure structural integrity, adequate holding capacity and will be repaired prior to future use if leaks are present. The contractor shall remove hardened concrete waste when it accumulates to a height of 1/2 of the container or pit or as necessary to avoid overflows. All concrete waste shall be disposed of in a manner consistent with all applicable laws, regulations and guidelines.

# **ATTACHMENT 3**




中国认可  
检测  
TESTING  
CNAS L0599

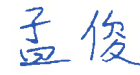
# Test Report


REPORT No.: SHE20-14457/1      DATE RECEIVED: 2020/12/28  
 ATTENTION: Ya XIAO      ANALYSIS DATE: 2020/12/28~2021/01/15  
 CUSTOMER: Trina Solar Co., Ltd.      DATE REPORTED: 2021/01/15  
 No.2 TianHe Road, Trina PV Industrial Park, New District, Changzhou City, Jiangsu Province  
 SAMPLE (S): Solid waste (1)  
 REFERENCE: -

## REMARKS

- 1.The results apply to the sample(s) as received
- 2.The report is translated from SHE20-14457.

Edited by:   
Min ZHOU

Reviewed by:   
Jun MENG

Approved by:   
Liqiong TANG



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Attention: To check the authenticity of testing/inspection report & certificate, please contact us at Telephone: (86-755) 8307 1443, or email: CN.Qccheck@sgs.com  
 3<sup>rd</sup> Building, No.889 Yishan Road, Xuhui District, Shanghai, China 200233    1 (86-21) 61072828 | (86-21) 61152164    www.sgs.com.cn  
 中国·上海·徐汇区宜山路889号3号楼    邮编: 200233    1 (86-21) 61072828 | (86-21) 61152164    e sgs.china@sgs.com



## Statement

1. The test report is invalid without the official seal of the laboratory.
2. This test report cannot be reproduced in any way, except in full content, without prior approval in writing by the laboratory.
3. The test report is invalid without the signature of the compiler, the checker and the approver
4. The test report is invalid if altered.
5. The test report has been drafted in Chinese and translated into English (if applicable) for convenience only. In the event of discrepancy, the Chinese version shall prevail.
6. Should you have any queries or objection to the test report, please contact us within 10 days after receiving the report.

### Legend

NA The sample was not analysed for this analyte

↑ Detection limit raised

↓ Detection limit lowered

ND Not Detected





## INORGANIC & ORGANIC ANALYSIS

Report No.: SHE20-14457/1

Customer Reference: -

Lab ID	SHE20-14457.001
Customer ID	TSM-DEG15VC.20(II) 光伏组件
Model No	SHES2012024855TX
Date Received	2020/12/28

TCLP ITEM	METHOD	MDL	UNIT	Limit	Solid waste
Arsenic (As)	USEPA 200.8-1994	0.050	mg/L	≤5	<0.050
Barium (Ba)	USEPA 200.8-1994	0.010	mg/L	≤100	<b>0.244</b>
Cadmium (Cd)	USEPA 200.8-1994	0.001	mg/L	≤1	<0.001
Chromium (Cr)	USEPA 200.8-1994	0.010	mg/L	≤5	<0.010
Lead (Pb)	USEPA 200.8-1994	0.010	mg/L	≤5	<b>0.032</b>
Selenium (Se)	USEPA 200.8-1994	0.050	mg/L	≤1	<0.050
Silver (Ag)	USEPA 200.8-1994	0.010	mg/L	≤5	<0.010
Mercury (Hg)	USEPA 7473-2007	0.005	mg/L	≤0.2	<0.005

**Remark:**

- 1.Preparative method:USEPA1311-1992(Toxicity Characteristic Leaching Procedure)
- 2.The Limits comes from CFR(code of federal regulations) title 40 part 261.24.





## Method List

USEPA 200.8-1994 Metals ICP-MS  
USEPA 7473-2007 Metals-Hg

### Equipment Information

#### Method:USEPA 200.8-1994

Equipment Name	Model	Equipment Number	Serial Number
ICP-MS	Agilent 7900	CHEM-998	JP16311502

#### Method:USEPA 7473-2007

Equipment Name	Model	Equipment Number	Serial Number
Hg analyzer	Milestone DMA-80	CHEM-960	11091044



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## APPENDIX 1

Report No.:SHE20-14457/1

Customer Reference: -



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## APPENDIX 2

Report No.:SHE20-14457/1

Customer Reference: -



## APPENDIX 3

Report No.:SHE20-14457/1

Customer Reference: -



\*\*\*End of report\*\*\*



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中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 | (86-21) 61072828 | (86-21) 61152164 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

# **ATTACHMENT 4**



Department of Economic and  
Community Development

State Historic Preservation Office

August 23, 2021

Mr. David R. George  
Heritage Consultants  
PO Box 310249  
Newington, CT 06131

Subject: Phase IA and Phase IB Cultural Resource Reconnaissance Survey  
Louth Callan Haddam Quarter Road Solar Project  
Johnson Road, Parcel 18-22  
Durham, Connecticut  
ENV-22-0165

Dear Mr. George:

The State Historic Preservation Office (SHPO) has reviewed the cultural resource reconnaissance surveys prepared by Heritage Consultants, LLC (Heritage), dated June 2021. The proposed activities are under the jurisdiction of the Connecticut Siting Council and are subject to review by this office pursuant to the Connecticut Environmental Policy Act (CEPA). The proposed undertaking includes the construction of a solar facility, which is to occupy an approximately 9 acre project area. The parcel is bordered by deciduous forests on all sides, with access to be from Johnson Road to the south. The submitted report is well-written, comprehensive, and meet the standards set forth in the *Environmental Review Primer for Connecticut's Archaeological Resources*.

One previously recorded archaeological site is located within 1 mile of the project area; however, it will not be impacted by the proposed project. No properties listed or formally determined eligible for listing on either the State or National Register are located within one mile of the project area. Following a pedestrian survey, it was determined that the majority of the project area was characterized as having low slopes, well-drained soils, and proximity to a fresh water source, Hersig Brook, and therefore, retained a moderate to high potential to contain intact archaeological deposits. A Phase IB reconnaissance survey was recommended and completed.

Phase IB of the reconnaissance survey consisted of subsurface testing of areas deemed to have moderate to high archaeological sensitivity during Phase IA, and that would be subject to ground disturbing impacts as part of the proposed undertaking. A total of 179 of 179 planned shovel

State Historic Preservation Office

450 Columbus Boulevard, Suite 5 | Hartford, CT 06103 | P: 860.500.2300 | [ct.gov/historic-preservation](http://ct.gov/historic-preservation)

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Department of Economic and  
Community Development

State Historic Preservation Office

tests were excavated successfully throughout the proposed work area; an additional 17 delineation shovel tests were excavated around two positive shovel tests. The reconnaissance survey resulted in the identification of three loci: the Hersig Brook Overlook Site, Locus 2, and Locus 3. Based on low density of artifacts and lack of cultural features, none of the loci possesses sufficient research potential to be eligible for listing on the National Register of Historic Places.

As a result of the information submitted, SHPO concurs with the findings of the report that additional archeological investigations of the project areas are not warranted and that no historic properties will be affected by the proposed activities. However, please be advised that if construction plans change to include previously uninvestigated/undisturbed areas, this office should be contacted for additional consultation.

This office appreciates the opportunity to review and comment upon this project. For additional information, please contact Marena Wisniewski, Environmental Reviewer, at (860) 500-2357 or [marena.wisniewski@ct.gov](mailto:marena.wisniewski@ct.gov).

Sincerely,

A handwritten signature in black ink that reads "Jonathan Kinney". The signature is written in a cursive style with a prominent flourish at the end.

Jonathan Kinney  
Deputy State Historic Preservation Officer

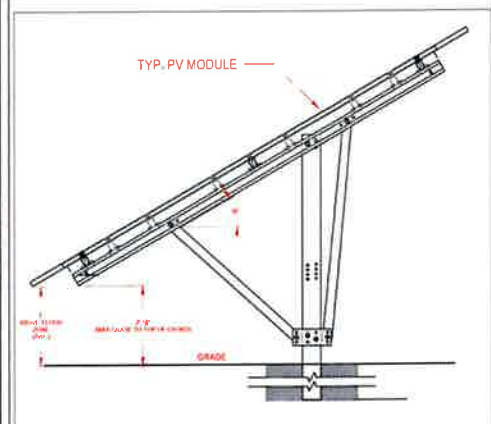
State Historic Preservation Office

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# **ATTACHMENT 5**



1 OVERALL SITE PLAN  
 PV E1.1 SCALE: 1"=110'

2 RACKING DETAILS  
 PV E1.1 SCALE: NTS

Rev	Description	Date	Drawn By	Engineering Stamp	Company Contact Info	Project	Sheet Name
A	SITE LAYOUT	01/20/21	GR		LOUTH CALLAN RENEWABLES 921 THRALL AVE SUFFIELD, CT 06078 (860) 814-4379 info@louthcallanrenewables.com	HADDAM QUARTER Rd, DURHAM, CT 06422	OVERALL SITE PLAN



Project: HADDAM QUARTER Rd,  
 DURHAM, CT 06422

Designed By: GREG RUSSELL

Sheet Title: PV E1.1

# **ATTACHMENT 6**



# REMOTE FIELD REVIEW

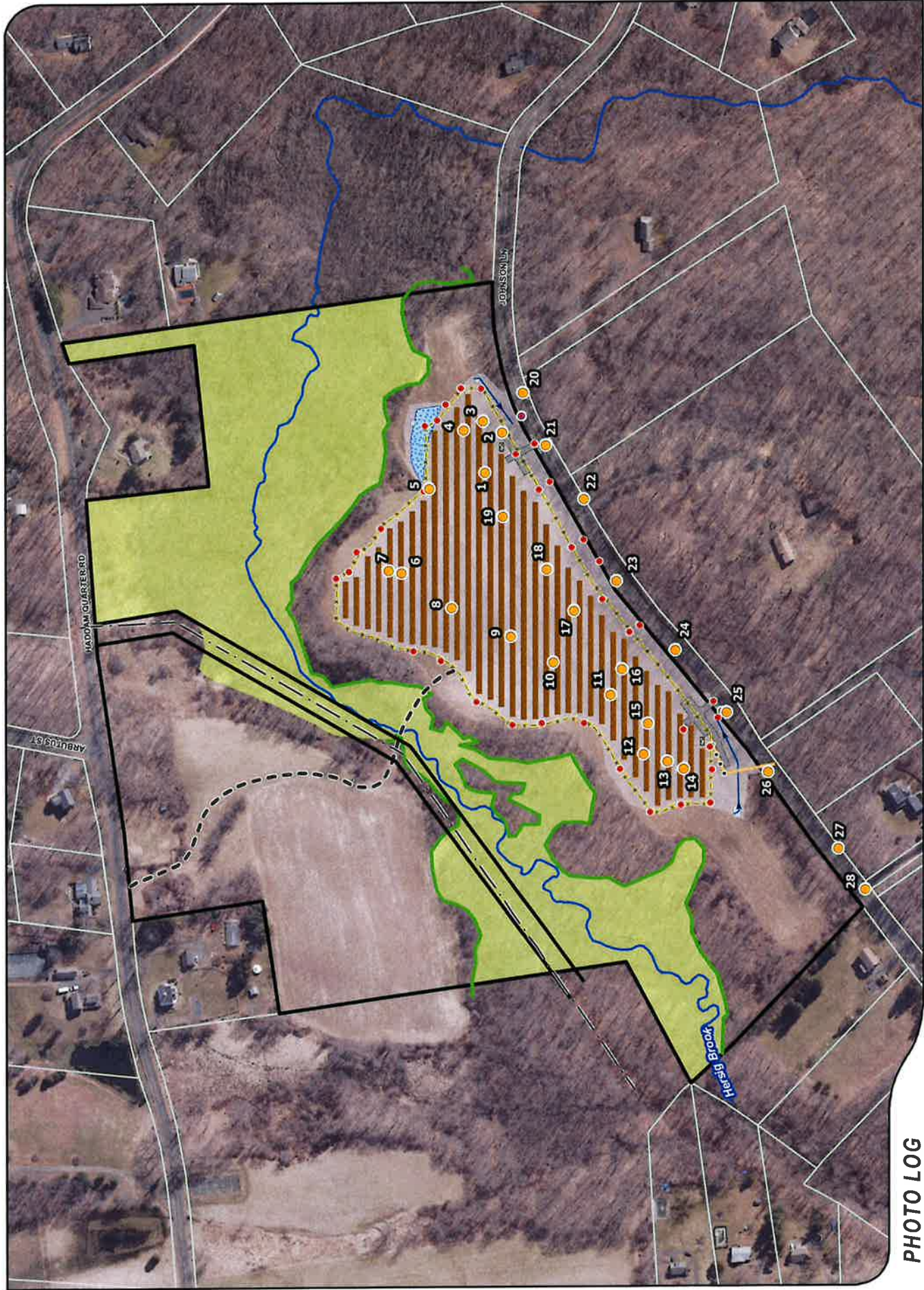


HADDAM QUARTER RD. SOLAR FACILITY  
JOHNSON LANE  
DURHAM, CONNECTICUT

PREPARED FOR:



PREPARED BY:  
ALL-POINTS TECHNOLOGY CORPORATION, P.C.  
567 Vauxhall Street Extension – Suite 311  
Waterford, CT 06385



# PHOTO LOG

- Photo Locations
- Photo Markers
- Site
- Approx. Parcel Boundary
- Overhead Electrical Lines
- Overhead Electrical Utility Right-of-Way
- Existing Farm Road
- Existing Culvert
- Delineated Wetland Boundary
- Forested Wetland Area
- Limit of Disturbance
- Solar Modules
- Conc. Equip. Pad
- Gravel Access Road
- Stormwater Basin
- Rip-Rap Level Spreader
- Stormwater Swale
- Interconnection Pair (OVH)
- Utility Pole
- Polemeter Fence
- Perimeter Fence





PHOTOGRAPHED ON 5/26/2021

PHOTO  
1

DESCRIPTION

LOOKING SOUTHEAST TOWARDS JOHNSON LANE



PHOTO

2

DESCRIPTION

VIEW FROM PROPOSED GRAVEL ACCESS ROAD LOOKING NORTHEAST



PHOTOGRAPHED ON 9/26/2021

PHOTO

3

DESCRIPTION

VIEW LOOKING NORTH







PHOTOGRAPHED ON 5/26/2021

PHOTO

4

DESCRIPTION

VIEW LOOKING NORTHWEST



PHOTOGRAPHED ON 5/26/2017



PHOTO 5

DESCRIPTION

VIEW FROM NORTHEASTERN FENCELINE - FOUR CARDINAL POINTS



PHOTOGRAPHED ON 5/26/2021

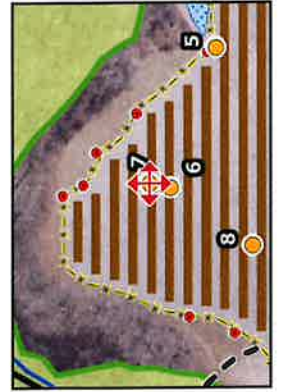
PROPOSED FENCELINE

PHOTO  
6

DESCRIPTION  
VIEW LOOKING NORTHEAST



PHOTOGRAPHED ON 5/26/2021

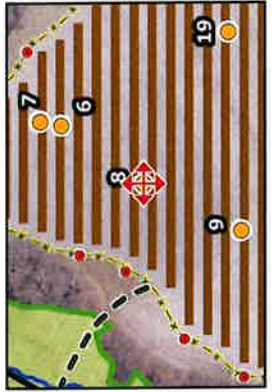
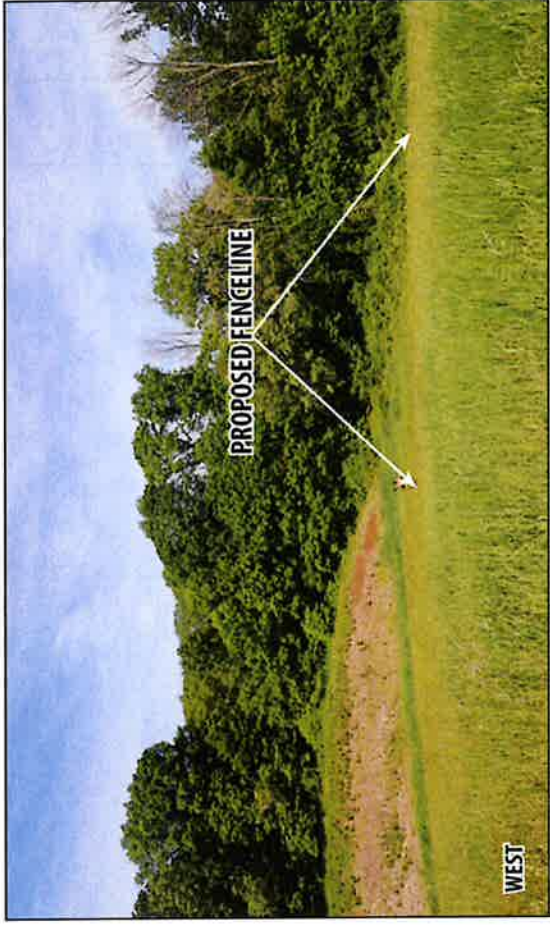
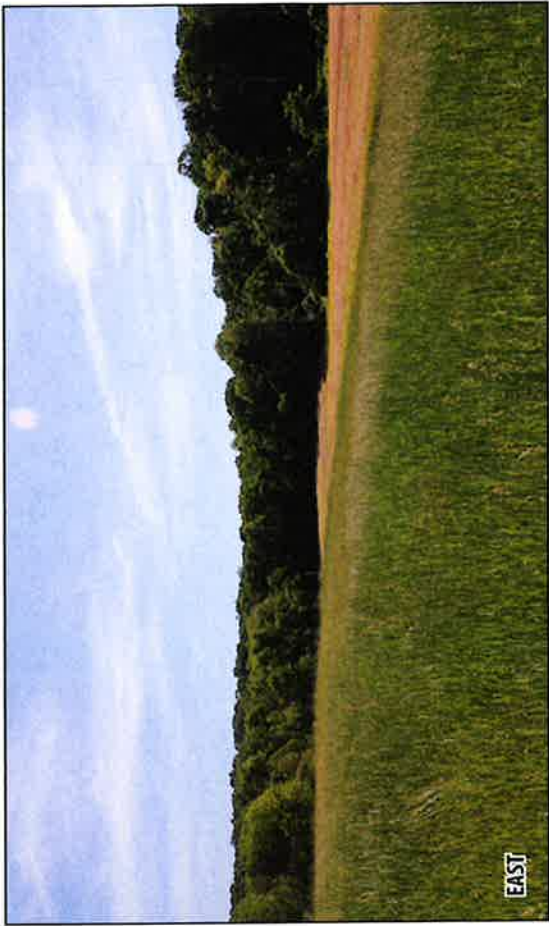


PHOTO

7

DESCRIPTION

VIEW FROM NORTHERN PORTION OF PROPOSED FACILITY - FOUR CARDINAL POINTS

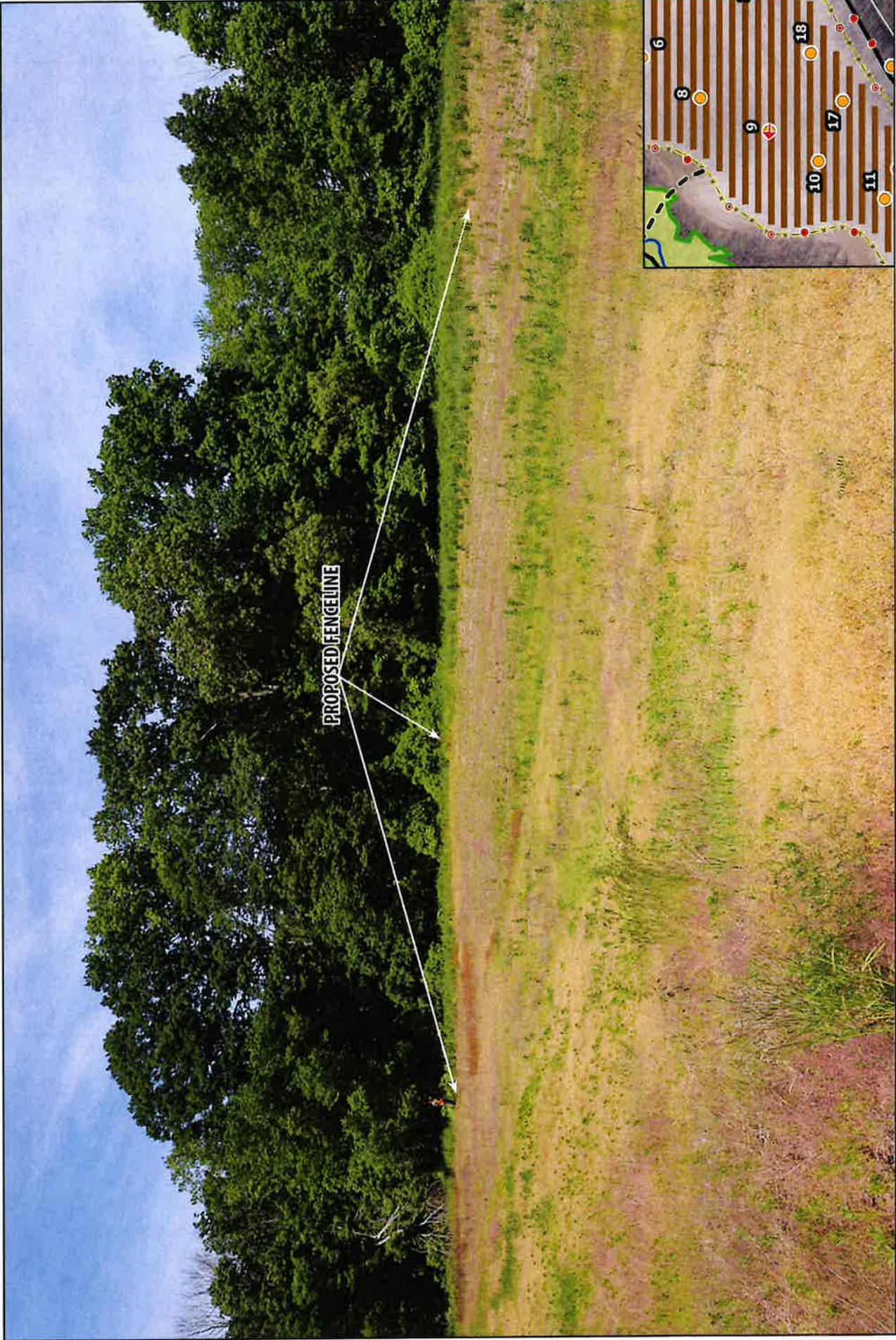


PHOTO

8

DESCRIPTION

VIEW FROM NORTHERN PORTION OF PROPOSED FACILITY - FOUR CARDINAL POINTS

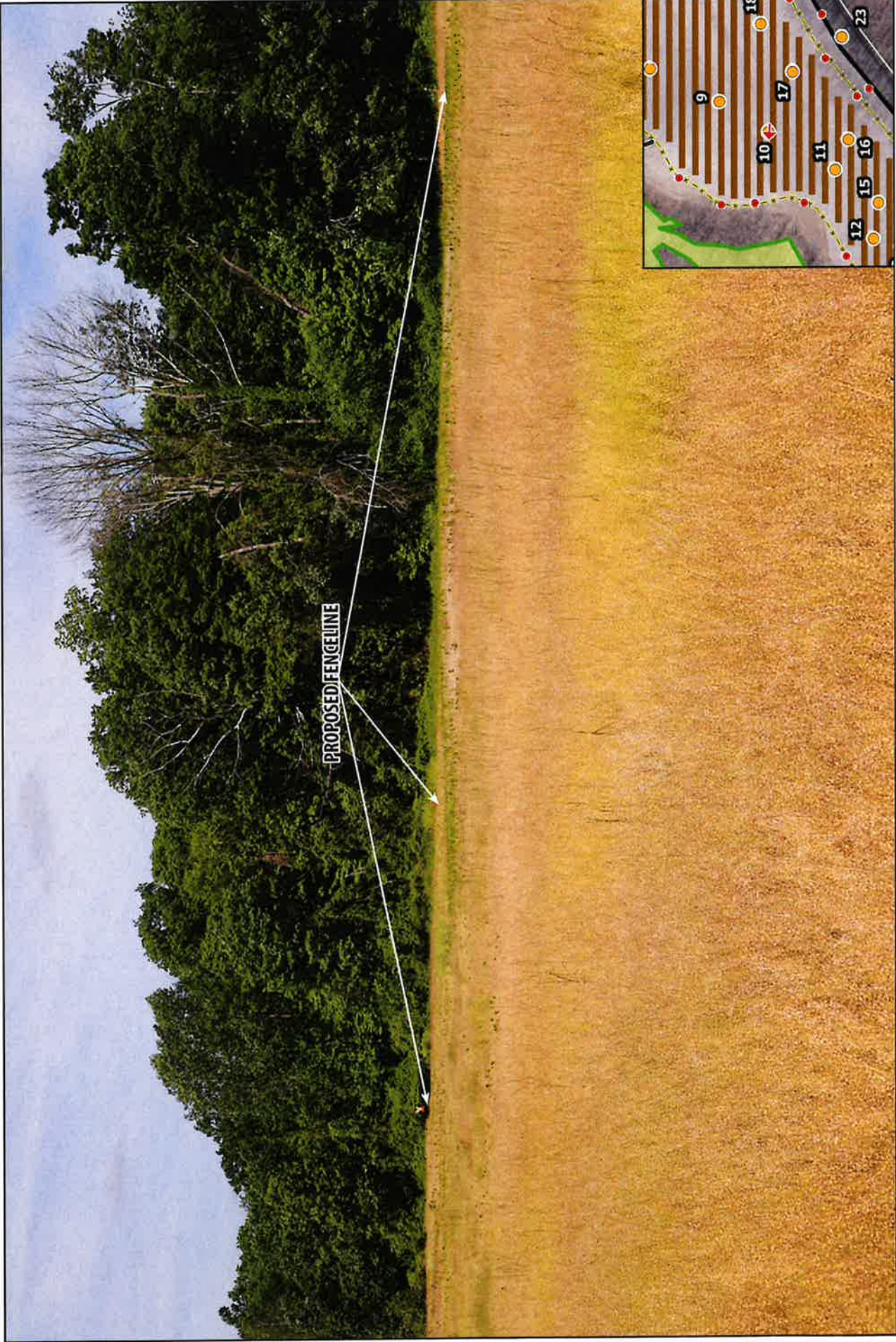


PHOTO

9

DESCRIPTION

VIEW LOOKING WEST



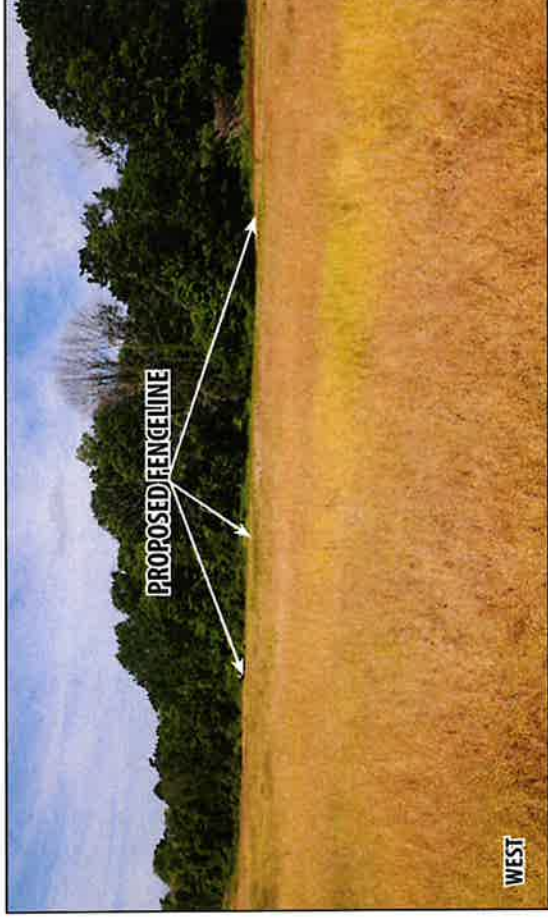
PHOTOGRAPHED ON 12/29/2021

PHOTO

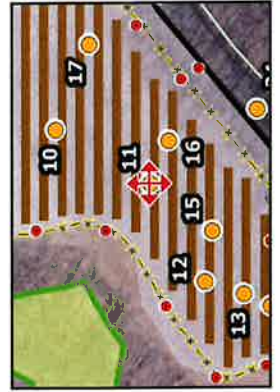
10

DESCRIPTION

VIEW LOOKING WEST



PHOTOGRAPHED ON 9/26/2021



PHOTO

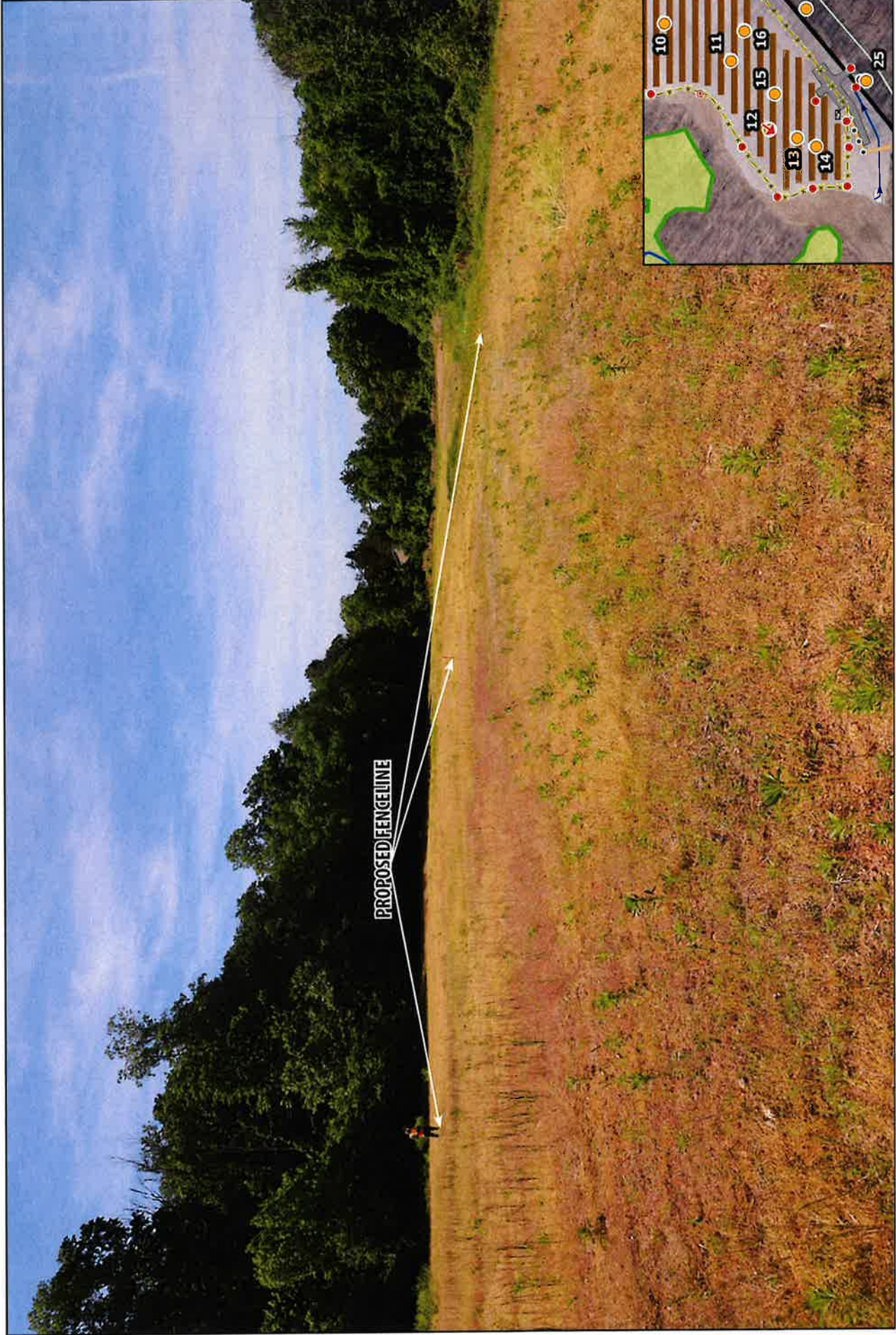
11

DESCRIPTION

VIEW FROM SOUTHWESTERN PORTION OF PROPOSED FACILITY - FOUR CARDINAL POINTS







PHOTO

12

DESCRIPTION

VIEW LOOKING SOUTHWEST TOWARDS ADJACENT PROPERTY



PHOTOGRAPHED ON 5/26/2021



PHOTO

13

DESCRIPTION

VIEW FROM SOUTHWESTERN PORTION OF PROPOSED FACILITY - FOUR CARDINAL POINTS



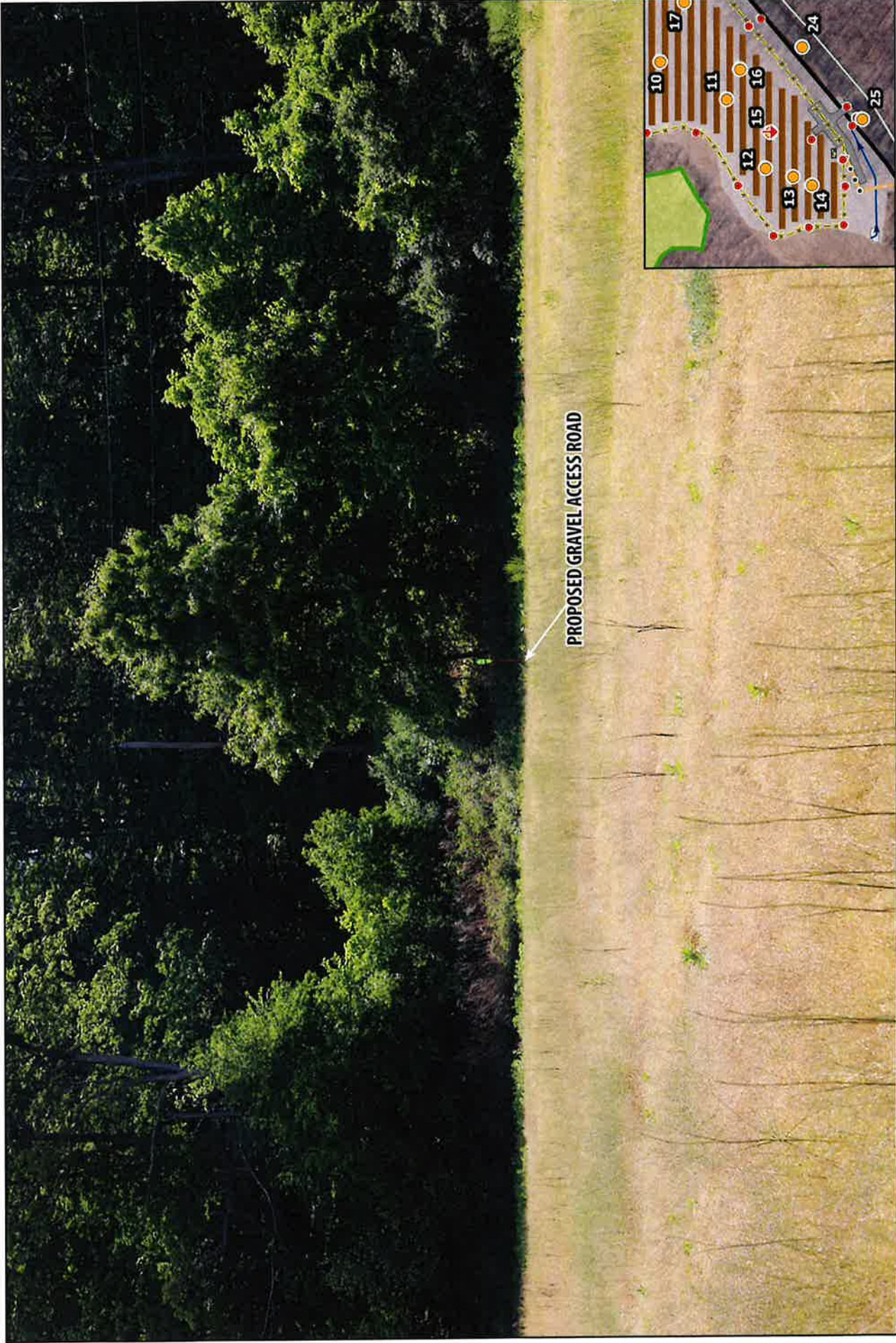
PHOTOGRAPHED ON 5/26/2021

PHOTO

14

DESCRIPTION

VIEW LOOKING SOUTHEAST TOWARDS JOHNSON LANE



1702/AM/PH/06/18/05/00/00/00/04

PHOTO

15

DESCRIPTION

VIEW LOOKING SOUTH TOWARDS JOHNSON LANE





PHOTO

16

DESCRIPTION

VIEW LOOKING SOUTHEAST TOWARDS JOHNSON LANE

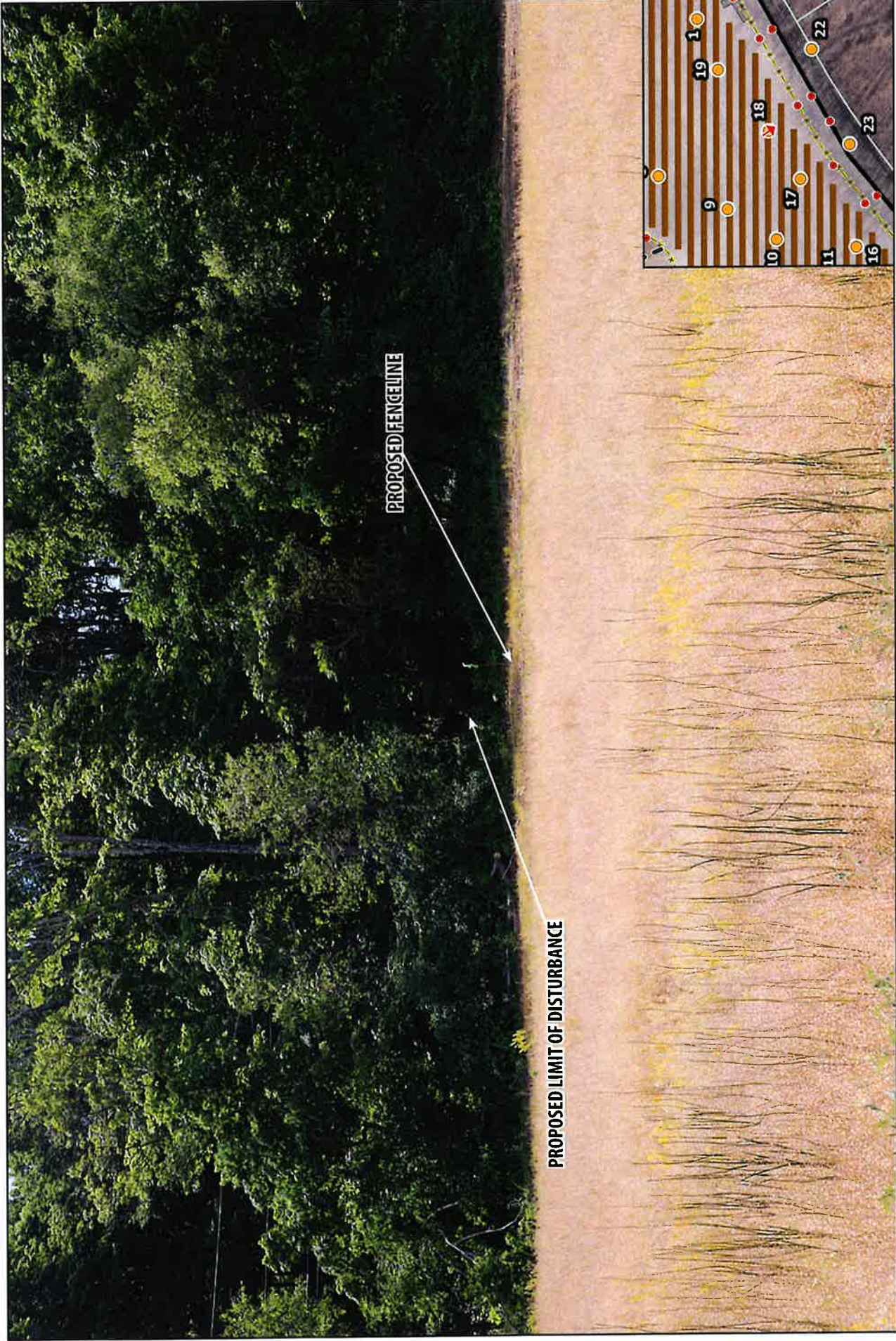


PHOTO

17

DESCRIPTION

VIEW LOOKING SOUTH TOWARDS JOHNSON LANE

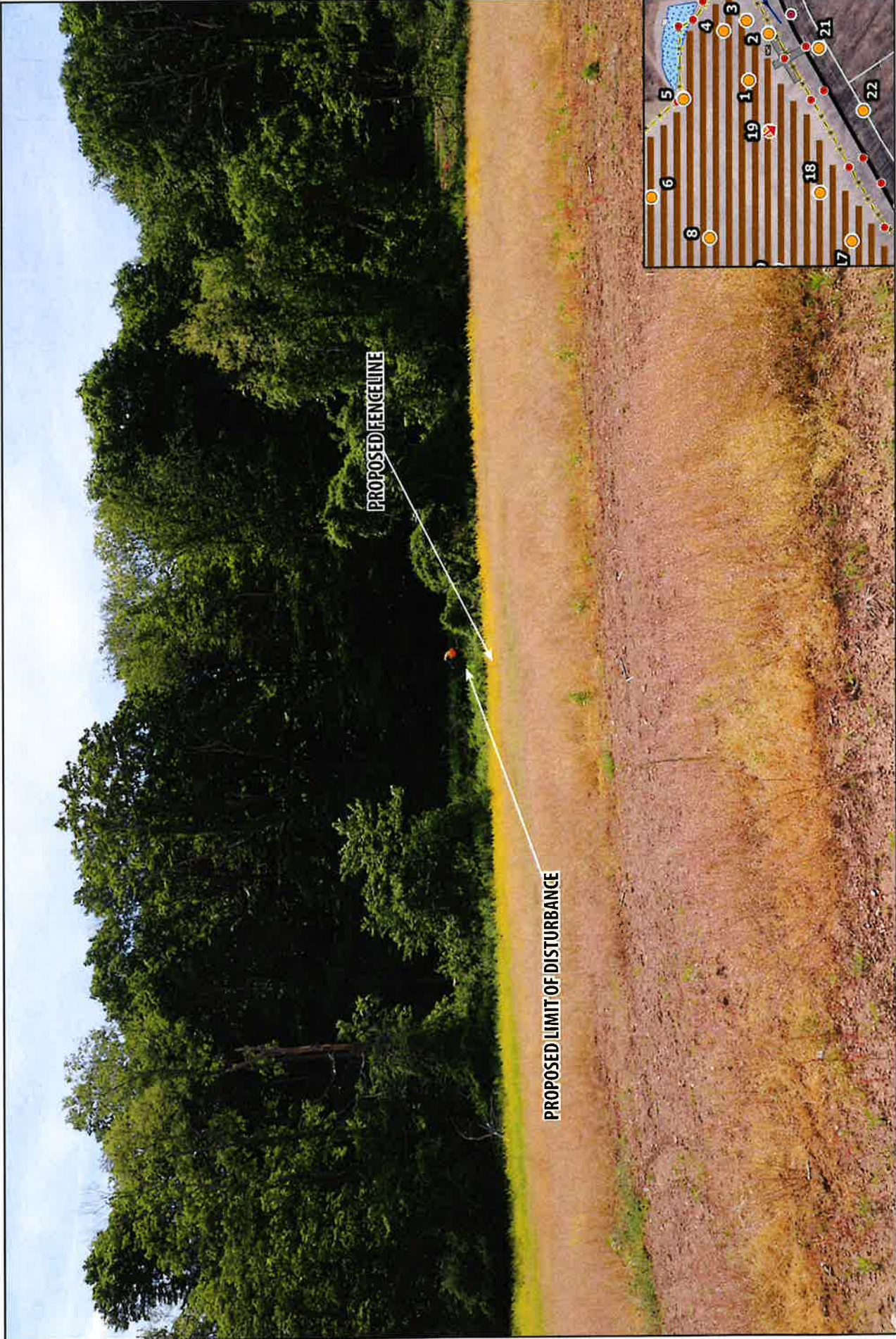


PHOTO

18

DESCRIPTION

VIEW LOOKING SOUTHEAST TOWARDS JOHNSON LANE



PHOTOGRAPHED ON 5/25/2021

PHOTO

19

DESCRIPTION

VIEW LOOKING SOUTHEAST TOWARDS JOHNSON LANE



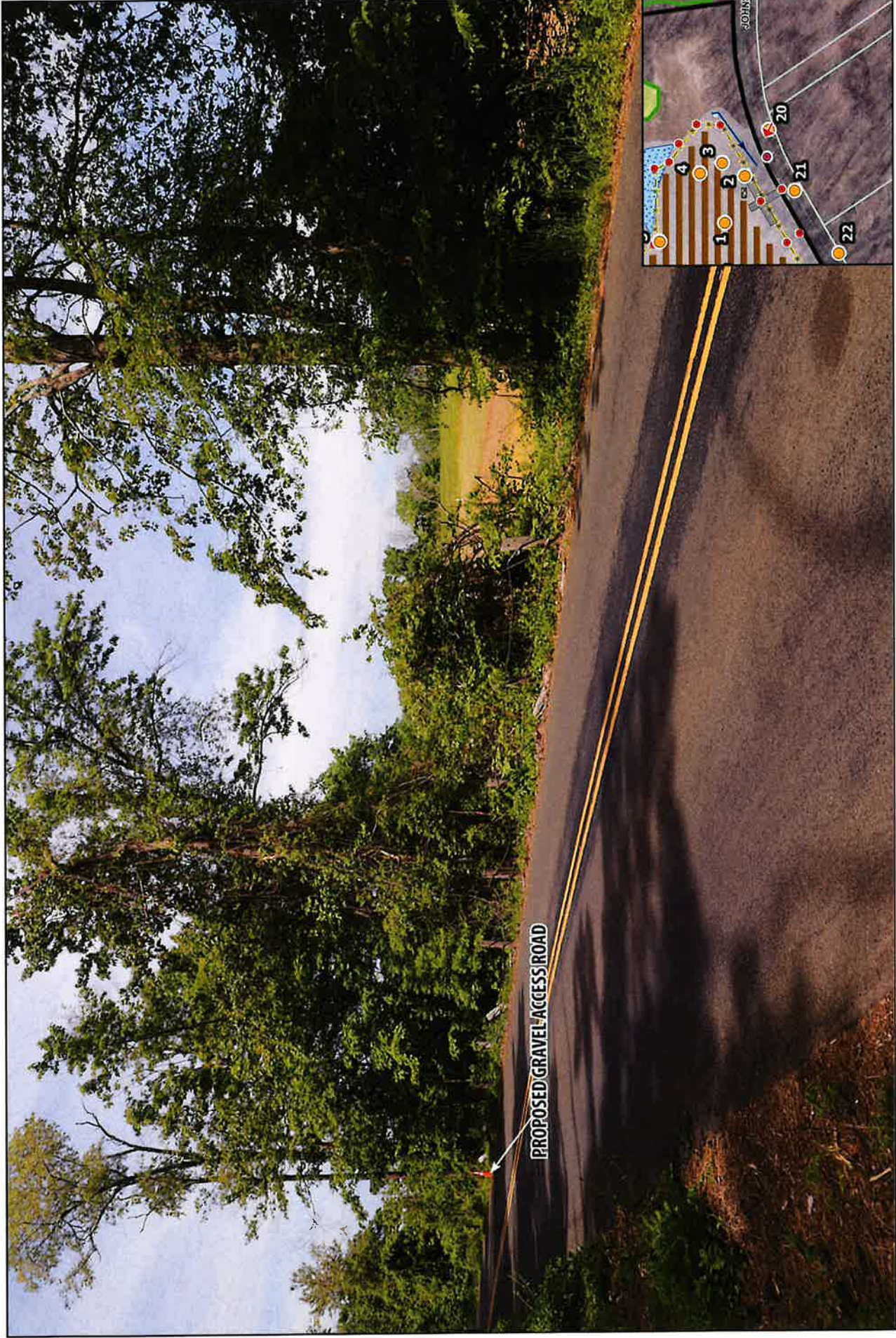


PHOTO  
20

DESCRIPTION  
JOHNSON LANE LOOKING NORTHWEST TOWARDS PROPOSED FACILITY



PHOTO

21

DESCRIPTION

**JOHNSON LANE LOOKING NORTHWEST TOWARDS PROPOSED FACILITY**



PHOTOGRAPHED ON 5/26/2021

PHOTO

22

DESCRIPTION

JOHNSON LANE LOOKING NORTHWEST TOWARDS PROPOSED FACILITY



PHOTOGRAPHED ON 5/26/2021

PHOTO

23

DESCRIPTION

JOHNSON LANE LOOKING NORTHWEST TOWARDS PROPOSED FACILITY



PHOTO

24

DESCRIPTION

JOHNSON LANE LOOKING NORTHWEST TOWARDS PROPOSED FACILITY



PROPOSED GRAVEL ACCESS DRIVE

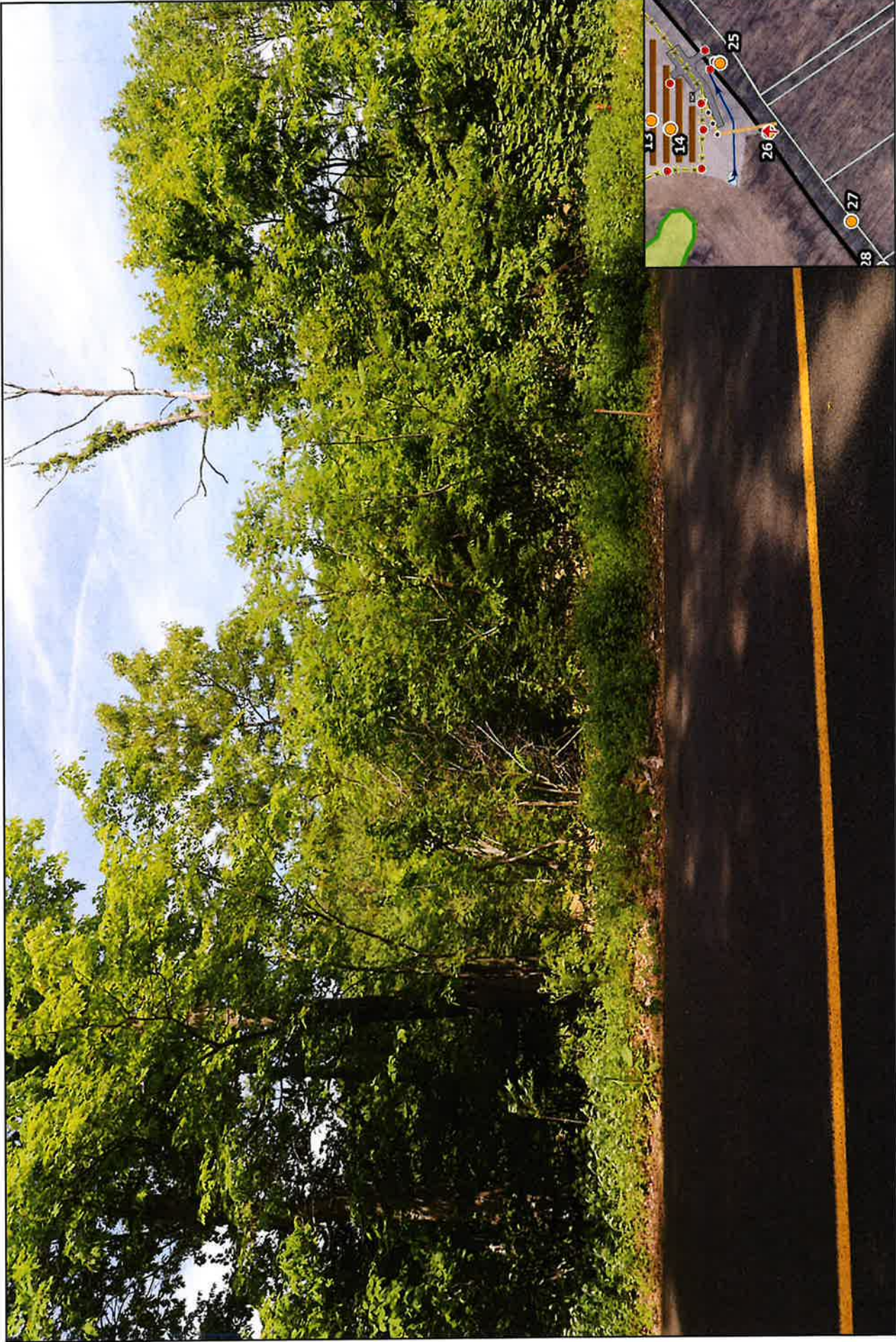
PHOTOGRAPHED ON 5/26/2021

PHOTO

25

DESCRIPTION

JOHNSON LANE LOOKING NORTHWEST TOWARDS PROPOSED FACILITY

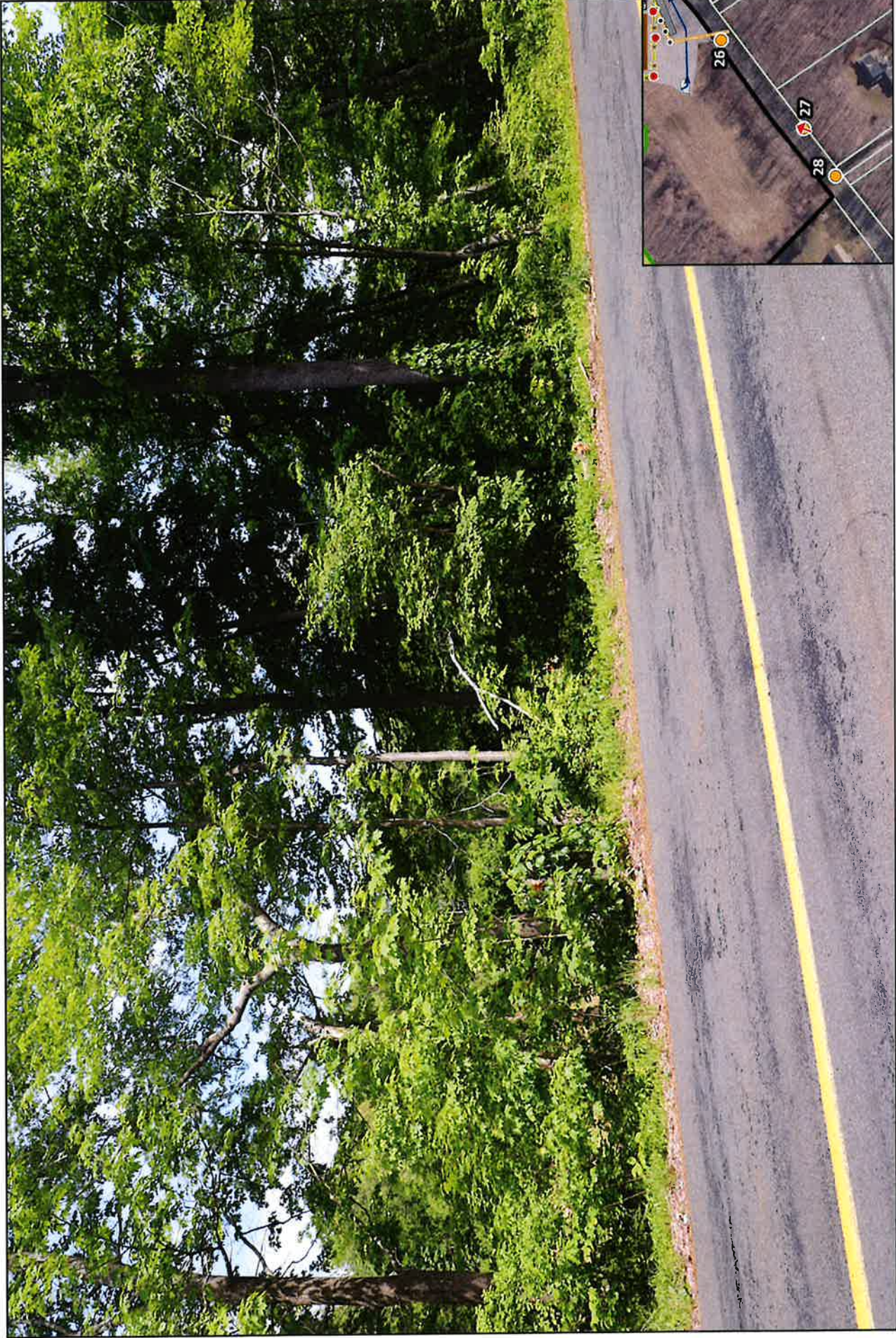


PHOTO

26

DESCRIPTION

**JOHNSON LANE LOOKING NORTH TOWARDS PROPOSED FACILITY**



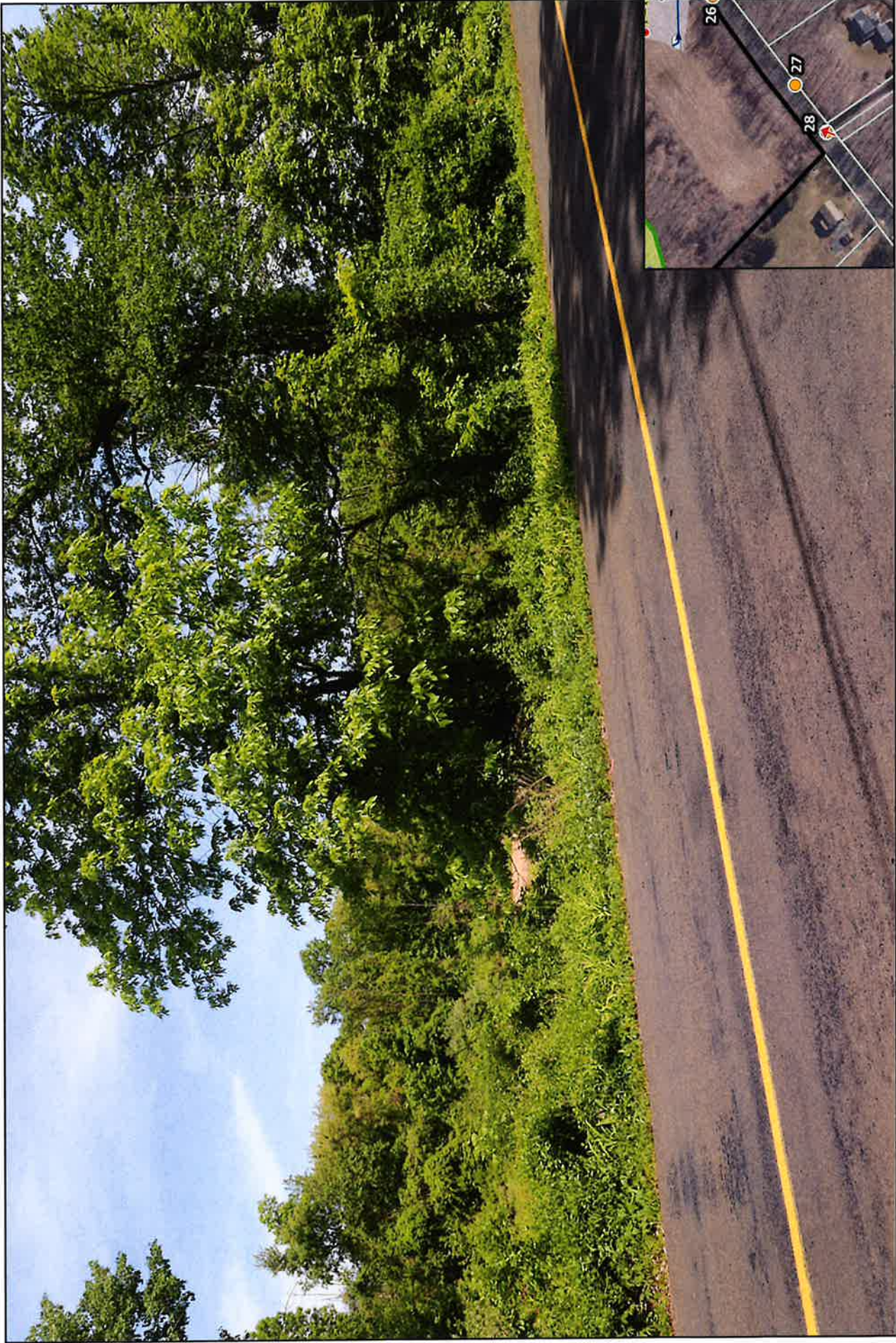
PHOTO

27

DESCRIPTION

JOHNSON LANE LOOKING NORTH TOWARDS PROPOSED FACILITY





PHOTO

28

DESCRIPTION

JOHNSON LANE LOOKING NORTH TOWARDS PROPOSED FACILITY