



Connecticut Department of
Energy & Environmental Protection
Bureau of Natural Resources
Wildlife Division

CPPU USE ONLY

App #: _____

Doc #: _____

Check #: No fee required

Program: Natural Diversity Database
Endangered Species

Hardcopy _____ Electronic _____

Request for Natural Diversity Data Base (NDDB) State Listed Species Review

Please complete this form in accordance with the [instructions](#) (DEEP-INST-007) to ensure proper handling of your request.

There are no fees associated with NDDB Reviews.

Part I: Preliminary Screening & Request Type

Before submitting this request, you must review the most current Natural Diversity Data Base "State and Federal Listed Species and Significant Natural Communities Maps" found on the [DEEP website](#). These maps are updated twice a year, usually in June and December.

Does your site, including all affected areas, fall in an NDDB Area according to the map instructions:

☒ Yes ☐ No Enter the date of the map reviewed for pre-screening: December 2018

This form is being submitted for a :

☒ New NDDB request

☐ Renewal/Extension of a NDDB Request, **without modifications and within two years of issued NDDB determination** (no attachments required)

[CPPU Use Only - NDDB-Listed Species Determination # 1736]

☐ New **Safe Harbor Determination** (optional) must be associated with an application for a GP for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

☐ Renewal/Extension of an existing Safe Harbor Determination
☐ With modifications
☐ Without modifications (no attachments required)

[CPPU Use Only - NDDB-Safe Harbor Determination # 1736]

Enter NDDB Determination Number for Renewal/Extension:

Enter Safe Harbor Determination Number for Renewal/Extension:

Part II: Requester Information

If the requester is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, the name shall be stated **exactly as it is registered with the Secretary of State. Please note, for those entities registered with the Secretary of State, the registered name will be the name used by DEEP. This information can be accessed at the Secretary of the State's database CONCORD.*

(www.concord-sots.ct.gov/CONCORD/index.jsp)

If the requester is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).

If there are any changes or corrections to your company/facility or individual mailing or billing address or contact information, please complete and submit the [Request to Change company/Individual Information](#) to the address indicated on the form.

1. Requester*

Company Name: **Milone & MacBroom, Inc.**

Contact Name: **Megan B. Raymond**

Address: **195 Church Street, 7th floor**

City/Town: **New Haven**

State: **CT**

Zip Code: **06510**

Business Phone: **(203) 344-7889**

ext.

E-mail: **mraymond@mminc.com

****By providing this email address you are agreeing to receive official correspondence from the department, at this electronic address, concerning this request. Please remember to check your security settings to be sure you can receive emails from "ct.gov" addresses. Also, please notify the department if your e-mail address changes**

a) Requester can best be described as:

☐ Individual ☐ Federal Agency ☐ State agency ☐ Municipality ☐ Tribal

☒ *business entity (* if a business entity complete i through iii):

i) Check type ☒ corporation ☐ limited liability company ☐ limited partnership

☐ limited liability partnership ☐ statutory trust ☐ Other:

ii) Provide Secretary of the State Business ID #: 0160851 This information can be accessed at the

Secretary of the State's database (CONCORD). (www.concord-sots.ct.gov/CONCORD/index.jsp)

iii) ☐ Check here if your business is **NOT** registered with the Secretary of State's office.

b) Acting as (Affiliation), pick one:

☐ Property owner ☒ Consultant ☐ Engineer ☐ Facility owner ☐ Applicant

☐ Biologist ☐ Pesticide Applicator ☐ Other representative:

2. List Primary Contact to receive Natural Diversity Data Base correspondence and inquiries, if different from requester.

Company Name: **NA**

Contact Person:

Title:

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

ext.

**E-mail:

Part III: Site Information

This request can only be completed for one site. A separate request must be filed for each additional site.

1. SITE NAME AND LOCATION

Site Name or Project Name: **Stonington PV Solar Facility**

Town(s): **Stonington**

Street Address or Location Description:

35 Taugwonk Spur Road, Stonington, Connecticut

Size in acres, or site dimensions: **84.2 acres**

Latitude and longitude of the center of the site in decimal degrees (e.g., 41.23456 -71.68574):

Latitude: **41.386929**

Longitude: **-71.893982**

Method of coordinate determination (check one):

☐ GPS ☐ Photo interpolation using [CTECO map viewer](#) ☒ Other (specify): **ArcMap**

2a. Describe the current land use and land cover of the site.

The property is made up of undeveloped, forested land and active agricultural fields. A transmission right of way running east-west bisects the center of the property. The forested areas contain several wetland and stream systems, including one small vernal pool in the south.

b. Check all that apply and enter the size in acres or % of area in the space after each checked category.

<input type="checkbox"/> Industrial/Commercial _____	<input type="checkbox"/> Residential _____	<input checked="" type="checkbox"/> Forest <u>32%</u>
<input checked="" type="checkbox"/> Wetland <u>31%</u>	<input type="checkbox"/> Field/grassland _____	<input checked="" type="checkbox"/> Agricultural <u>35%</u>
<input type="checkbox"/> Water _____	<input checked="" type="checkbox"/> Utility Right-of-way <u>2%</u>	
<input type="checkbox"/> Transportation Right-of-way _____	<input type="checkbox"/> Other (specify): _____	

Part IV: Project Information

1. PROJECT TYPE:

Choose Project Type: Commercial/Industrial development , If other describe: solar facility

2. Is the subject activity limited to the maintenance, repair, or improvement of an existing structure within the existing footprint? ☐ Yes ☒ No If yes, explain.

Part IV: Project Information (continued)

3. Give a detailed description of the activity which is the subject of this request and describe the methods and equipment that will be used. Include a description of steps that will be taken to minimize impacts to any known listed species.

The proposed activity involves the construction of a solar facility within 16-acres within the northeast portion of the property. The proposed solar facility will be accessed from a proposed 15 ft wide gravel access road that will extend north along the agricultural field from an existing gravel access road at the southern property boundary. An approximately 16-acre photovoltaic array will be placed within the currently active agricultural field and will extend approximately 120 ft into the forest edge to the west. An 8 ft tall chain link fence will be installed approximately 20 ft from the perimeter of the array. Limits of clearing within the forest edge will be established approximately 80 ft west of the fence. An electrical pad will be installed in the northwest corner of the photovoltaic array and a 50 ft wide transmission right of way containing overhead electrical service and utility poles will be installed along the northern property boundary, connecting the electrical pad to existing electrical infrastructure on Taugwonk Road west of the property.

Potential short-term impacts during construction will be minimized using best management practices and procedures. Standard construction equipment will be used, including grading equipment, excavators, cranes, and bulldozers. Sediment filter fence will be placed along the perimeter of work to prevent sedimentation impacts to adjacent biological resource areas.

The following construction protocol will be followed to minimize impacts to eastern box turtle (EBT):

- Exclusionary practices will be used to prevent turtle access into disturbance areas. These measures will be installed at the limits of disturbance as shown on the plans;
- Exclusionary fencing will be at least 20 inches tall and must be secured to and remain in contact with the ground and be regularly maintained (at least bi-weekly and after major weather events) to secure any gaps or openings at ground level that may let animals pass through;
- Staging and storage of equipment and supplies will be confined to areas within the limits of exclusionary fencing;
- All construction personnel working within the turtle habitat must be apprised of the species description and the possible presence of a listed species and instructed to relocate turtles out of harm's way;
- Any turtles encountered within the immediate work area shall be carefully moved to an adjacent area outside of the excluded area, and fencing should be inspected to identify and remove the access point. This animal is protected by law and should never be taken off site;
- In areas where silt fence is used for exclusion, it shall be removed as soon as the area is stable and disturbance is finished to allow for reptile and amphibian passage to resume.
- The Contractor will search the work area each morning prior to any work being done.
- Should the EBT be encountered during construction, the observation will be reported to CT DEEP NDDB.

4. If this is a renewal or extension of an existing Safe Harbor request *with* modifications, explain what about the project has changed.

NA

5. Provide a contact for questions about the project details if different from Part II primary contact.

Name: **NA**

Phone:

E-mail:

Part V: Request Requirements and Associated Application Types

Check *one* box from either Group 1, Group 2 *or* Group 3, indicating the appropriate category for this request.

Group 1. If you check one of these boxes, complete Parts I – VII of this form and submit the required attachments A and B.

- ☐ Preliminary screening was negative but an NDDB review is still requested
- ☐ Request regards a municipally regulated or unregulated activity (no state permit/certificate needed)
- ☐ Request regards a preliminary site assessment or project feasibility study
- ☐ Request relates to land acquisition or protection
- ☐ Request is associated with a *renewal* of an existing permit or authorization, with no modifications

Group 2. If you check one of these boxes, complete Parts I – VII of this form and submit required attachments A, B, *and* C.

- ☒ Request is associated with a *new* state or federal permit or authorization application or registration
- ☐ Request is associated with modification of an existing permit or other authorization
- ☐ Request is associated with a permit enforcement action
- ☐ Request regards site management or planning, requiring detailed species recommendations
- ☐ Request regards a state funded project, state agency activity, or CEPA request

☐ **Group 3.** If you are requesting a **Safe Harbor Determination**, complete Parts I-VII and submit required attachments A, B, and D. Safe Harbor determinations can only be requested if you are applying for a GP for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

If you are filing this request as part of a state or federal permit application(s) enter the application information below.

Permitting Agency and Application Name(s): _____

Related State DEEP Permit Number(s), if applicable: _____

State DEEP Enforcement Action Number, if applicable: _____

State DEEP Permit Analyst(s)/Engineer(s), if known: _____

Is this request related to a previously submitted NDDB request? ☐ Yes ☒ No

If yes, provide the previous NDDB Determination Number(s), if known: _____

Part VI: Supporting Documents

Check each attachment submitted as verification that *all* applicable attachments have been supplied with this request form. Label each attachment as indicated in this part (e.g., Attachment A, etc.) and be sure to include the requester's name, site name and the date. **Please note that Attachments A and B are required for all new requests and Safe Harbor renewals/extensions with modifications.** Renewals/Extensions with no modifications do not need to submit any attachments. Attachments C and D are supplied at the end of this form.

<input checked="" type="checkbox"/> Attachment A:	Overview Map: an 8 1/2" X 11" print/copy of the relevant portion of a USGS Topographic Quadrangle Map clearly indicating the exact location of the site.
<input checked="" type="checkbox"/> Attachment B:	Detailed Site Map: fine scaled map showing site boundary and area of work details on aerial imagery with relevant landmarks labeled. (Site and work boundaries in GIS [ESRI ArcView shapefile, in NAD83, State Plane, feet] format can be substituted for detailed maps, see instruction document)
<input checked="" type="checkbox"/> Attachment C:	Supplemental Information, Group 2 requirement (attached, DEEP-APP-007C) <input checked="" type="checkbox"/> Section i: Supplemental Site Information and supporting documents <input checked="" type="checkbox"/> Section ii: Supplemental Project Information and supporting documents
<input type="checkbox"/> Attachment D:	Safe Harbor Report Requirements, Group 3 (attached, DEEP-APP-007D)

Part VII: Requester Certification

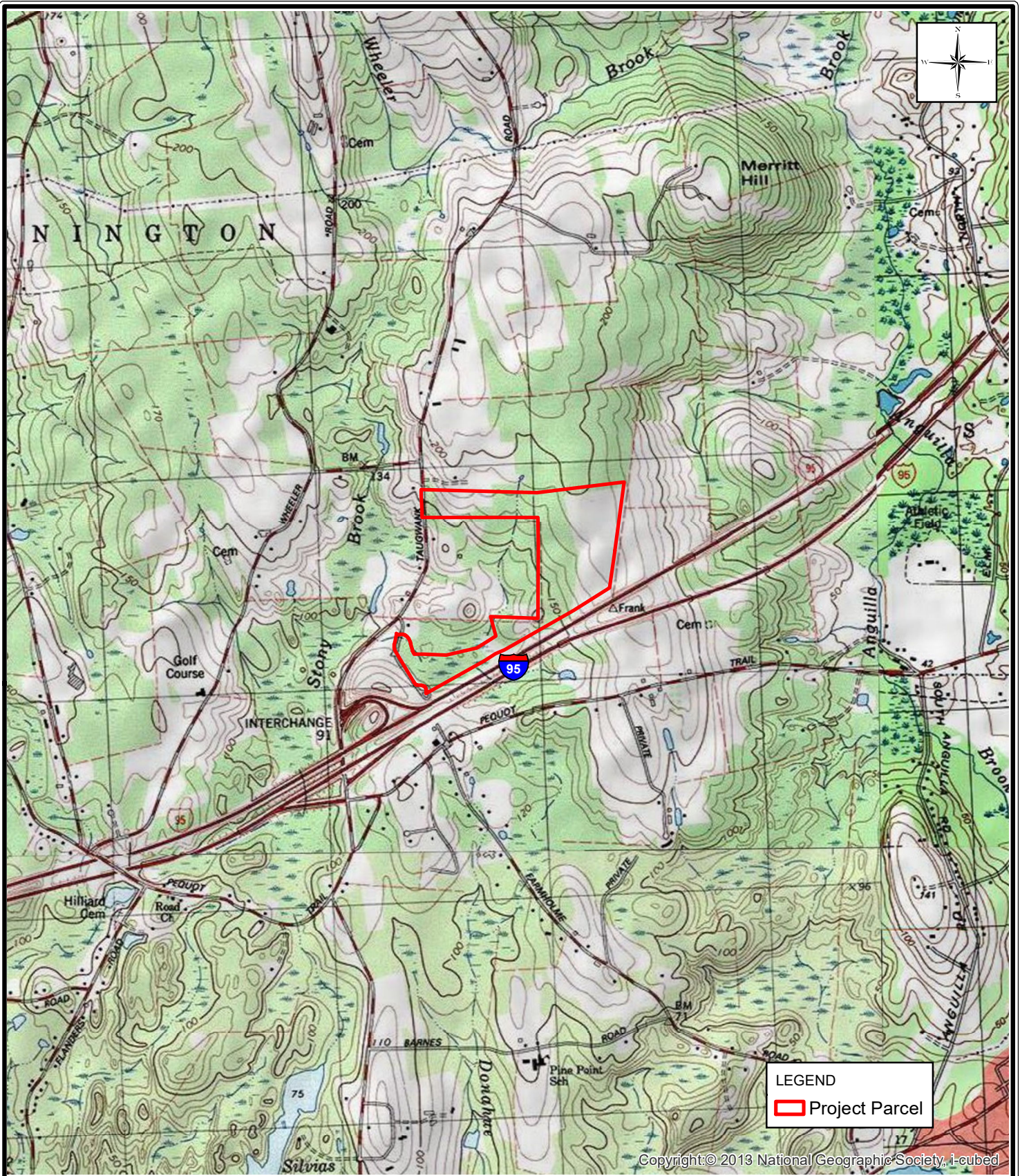
The requester *and* the individual(s) responsible for actually preparing the request must sign this part. A request will be considered incomplete unless all required signatures are provided.

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief."	
Megan B. Raymond	7 / 9 / 2 0 1 9
Signature of Requester (a typed name will substitute for a handwritten signature)	Date
Megan B. Raymond	Senior Environmental Scientist
Name of Requester (print or type)	Title (if applicable)
Signature of Preparer (if different than above)	Date
Name of Preparer (print or type)	Title (if applicable)

Note: Please submit the completed Request Form and all Supporting Documents to:

CENTRAL PERMIT PROCESSING UNIT
DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

Or email request to: deep.nddbrequest@ct.gov



MILONE & MACBROOM

195 Church Street
 New Haven, Connecticut 06510
 (203) 344-7887
 www.mminc.com

OVERVIEW MAP

STONINGTON PV SOLAR FACILITY

35 TAUGWONK ROAD
 STONINGTON, CONNECTICUT

SOURCE: 2013 NATIONAL GEOGRAPHIC SOCIETY

DATE: JULY 8, 2019

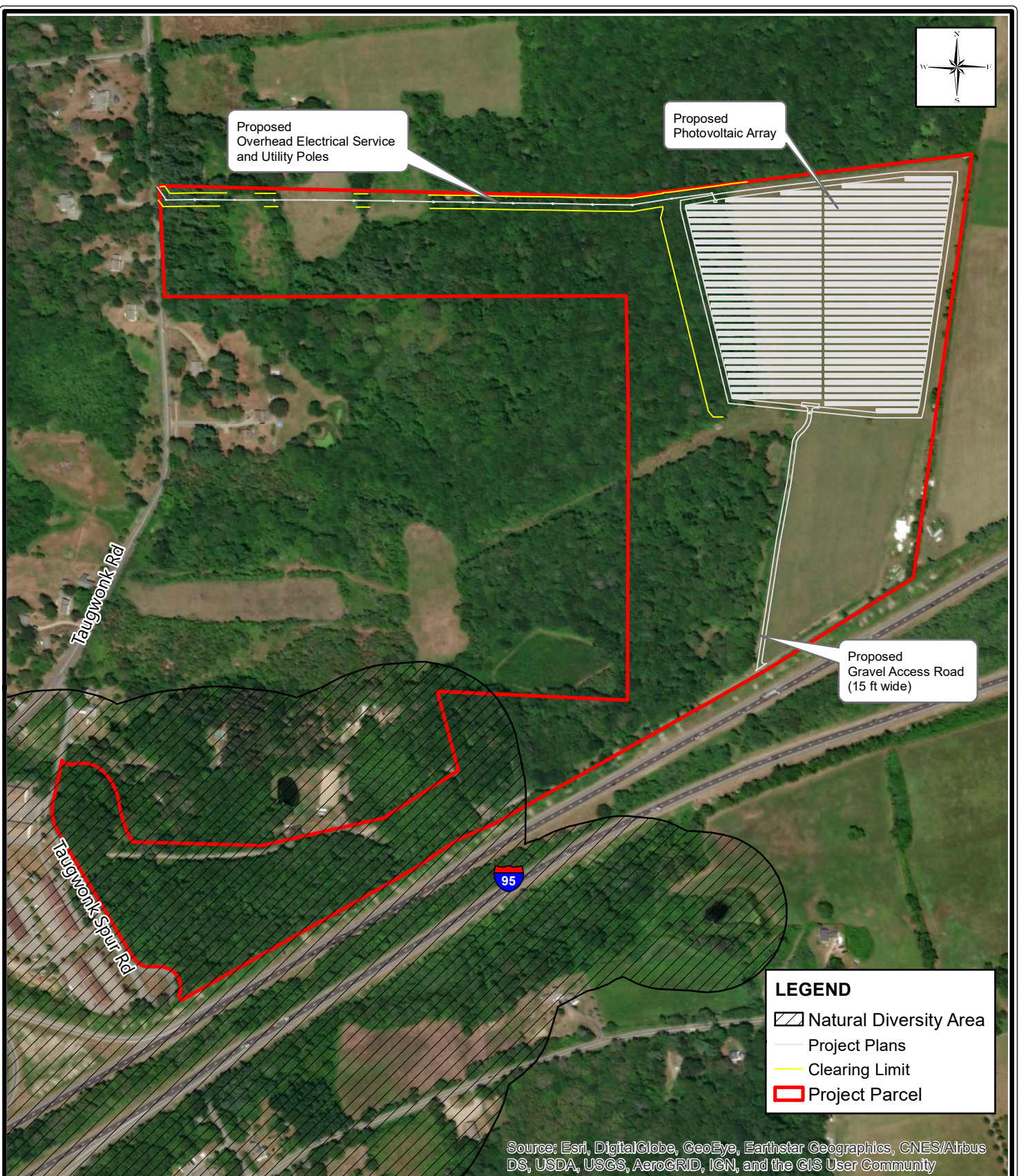
SCALE: 1" = 2,000'

PROJ. NO.: 6763-05

DESIGNED AYO	DRAWN AYO	CHECKED MBR
-----------------	--------------	----------------

DRAWING NAME:

ATT. A



MILONE & MACBROOM

195 Church Street
New Haven, Connecticut 06510
(203) 344-7887
www.mminc.com

DETAILED SITE MAP

STONINGTON PV SOLAR FACILITY

35 TAUGWONK ROAD
STONINGTON, CONNECTICUT

SOURCE: 2016 AERIAL PHOTO, ESRI

DATE: JULY 9, 2019

SCALE: 1" = 500'

PROJ. NO.: 6763-05

DESIGNED
AYO

DRAWN
AYO

CHECKED
MBR

DRAWING NAME:

ATT. B

Attachment C: Supplemental Information, Group 2 requirement

Section i: Supplemental Site Information

1. Existing Conditions

Describe all natural and man-made features including wetlands, watercourses, fish and wildlife habitat, floodplains and any existing structures potentially affected by the subject activity. Such features should be depicted and labeled on the site plan that must be submitted. Photographs of current site conditions may be helpful to reviewers.

The project site consists primarily of undeveloped forested land and active agricultural land (hayfields and horse pastures). A transmission right of way running east-west bisects the property. Several wetland and stream systems exist within the forested portion of the site, which were delineated by SWCA Environmental Consultants in November 2018. The majority of the wetlands are broad, forested, low-gradient drainage corridors containing intermittent streams. One small vernal pool was identified in the south end of the property. Wood frog (*Lithobates sylvaticus*) tadpoles were identified within the pool during a dip net survey conducted by MMI on May 20, 2019.

The majority of the project will be conducted within active agricultural land on the property; however, clearing limits extend within some of the forest and wetland areas onsite. Though the proposed transmission right of way along the northern property boundary follows an existing gravel path, a 50 ft wide right of way will be cleared and four utility poles will be installed within wetlands in this area. All activities are proposed outside the mapped NDDB polygon and greater than 300 feet from the vernal pool onsite. Species protection will be achieved through precautionary protocols during construction outlined in Part IV of this application. Sediment filter fence will be placed along the perimeter of the work area to avoid impacts from sedimentation as well as provide visible demarcation to more sensitive habitats on the property.

- ☐ Site Photographs (optional) attached
☒ Site Plan/sketch of existing conditions attached

2. Biological Surveys

Has a biologist visited the site and conducted a biological survey to determine the presence of any endangered, threatened or special concern species ☐ Yes ☒ No

If yes, complete the following questions and submit any reports of biological surveys, documentation of the biologist's qualifications, and any NDDB survey forms.

Biologist(s) name: _____

Habitat and/or species targeted by survey: _____

Dates when surveys were conducted: _____

- ☐ Reports of biological surveys attached
☐ Documentation of biologist's qualifications attached
☐ [NDDB Survey forms](#) for any listed species observations attached

Section ii: Supplemental Project Information

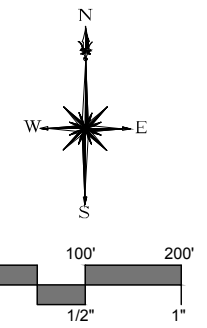
1. Provide a schedule for all phases of the project including the year, the month and/or season that the proposed activity will be initiated and the duration of the activity.

The project is anticipated to begin in February 2020 and will continue for approximately 3 months.

2. Describe and quantify the proposed changes to existing conditions and describe any on-site or off-site impacts. In addition, provide an annotated site plan detailing the areas of impact and proposed changes to existing conditions.

The proposed changes will convert forest and agricultural land to a solar facility. Agricultural field will be converted to photovoltaic array and gravel access road. Forested land will be converted to open field along the western edge of the photovoltaic array and within the proposed transmission right of way along the northern boundary. Minor impacts to wetlands will occur due to construction of the transmission right of way. However, long-term diminishment of wetland functionality is not anticipated to result from the proposed project. Reduction in forested habitat on the site is proposed.

☒ **Annotated Site Plan attached**

[illegible]

INDEX SHEET

STONINGTON PV SOLAR ARRAY
GREENSKIES RENEWABLE ENERGY, LLC
TAUGWONK SPUR ROAD
STONINGTON, CONNECTICUT

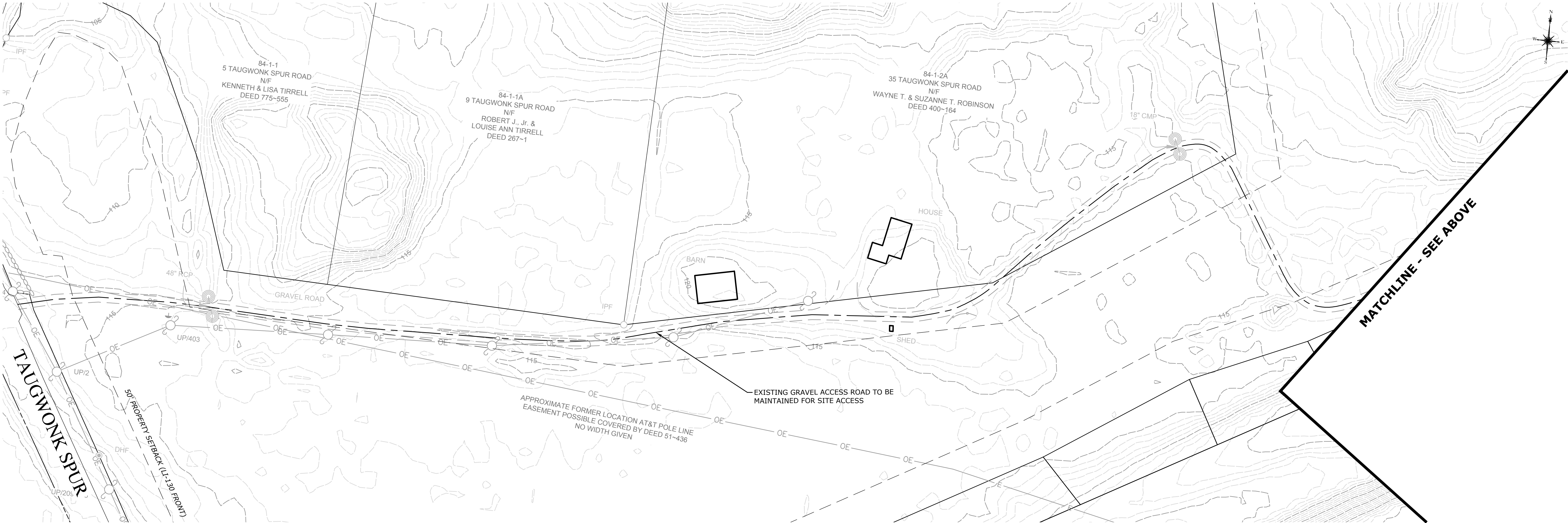
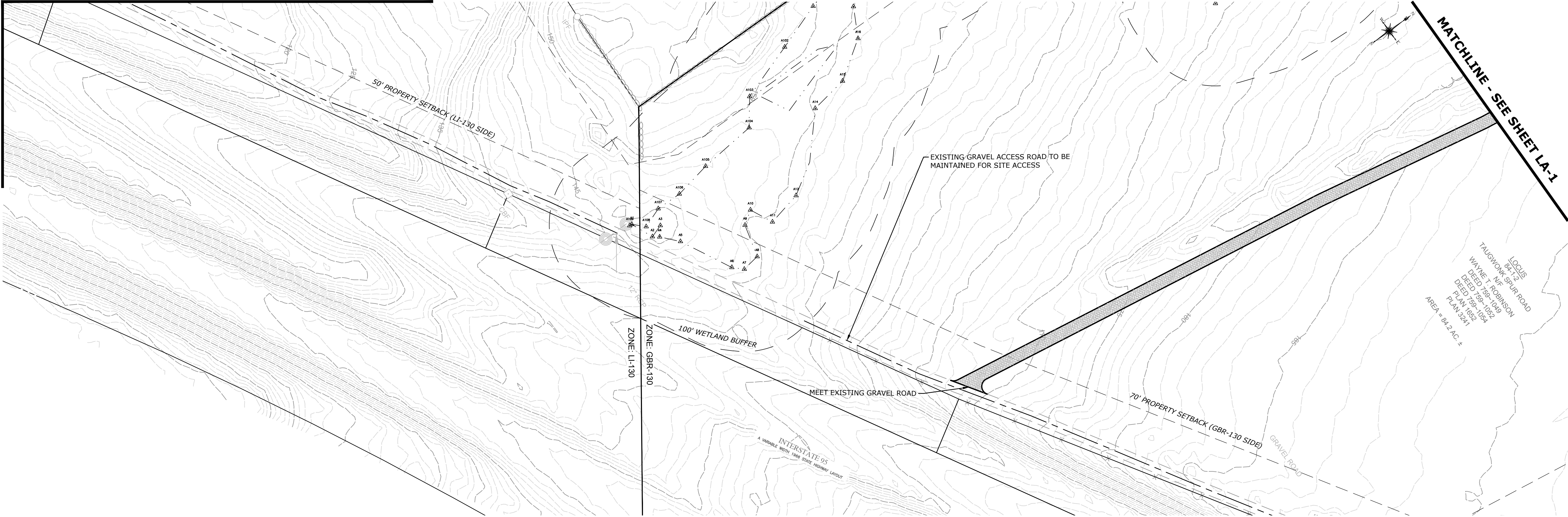
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6763-05		
01 OF 04		

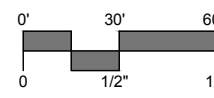
IN

DATE: 06/06/2019
DRAWN: J. MACBROOM
CHECKED: J. MACBROOM
PROJECT: STONINGTON PV SOLAR ARRAY
SHEET: 03 OF 04

MATCHLINE - SEE BELOW



PRELIMINARY 06/06/2019



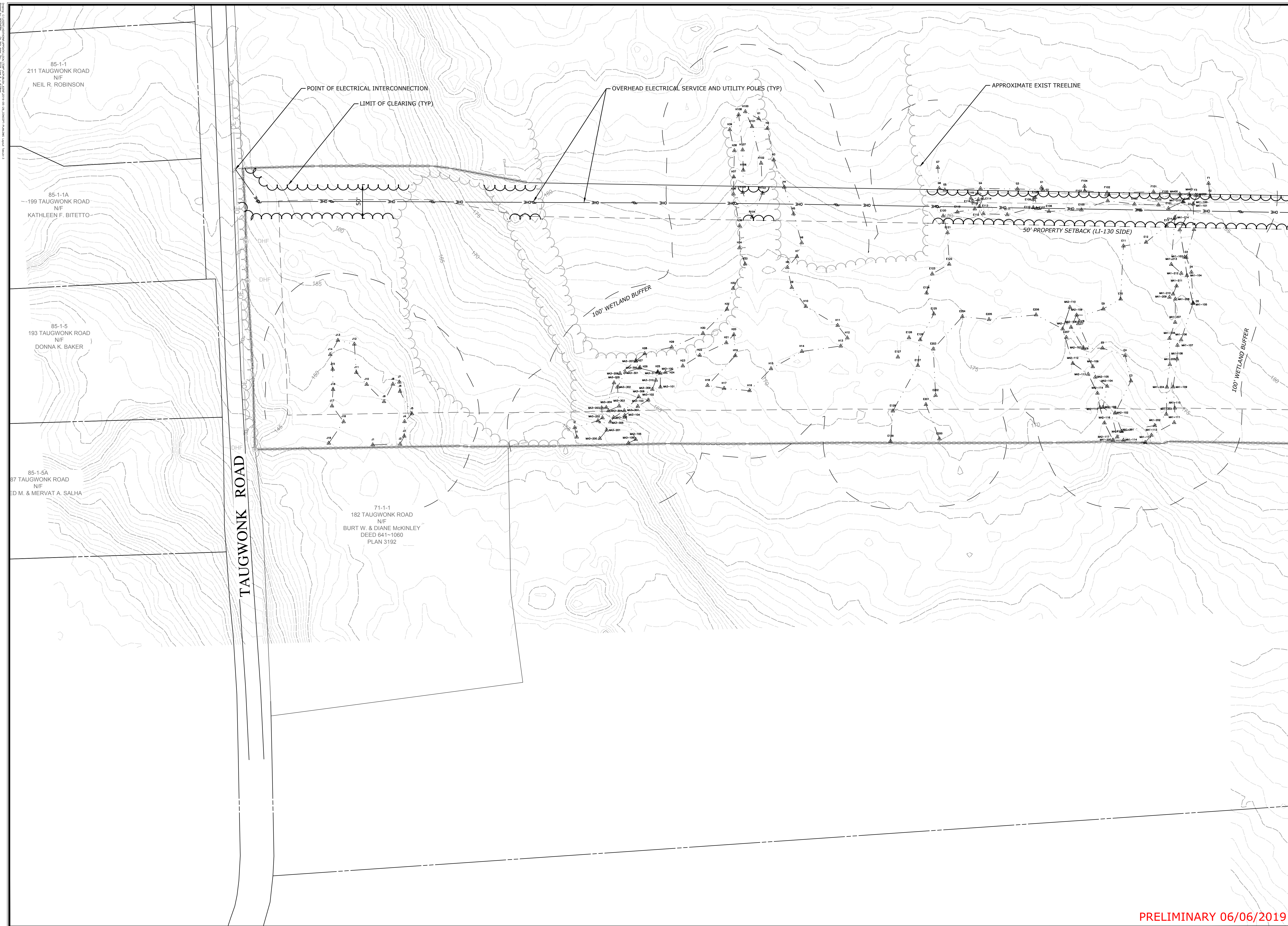
DESCRIPTION	DATE	BY

PRELIMINARY SITE LAYOUT PLAN
STONINGTON PV SOLAR ARRAY
GREENSKIES RENEWABLE ENERGY, LLC
TAUGWONK SPUR ROAD
STONINGTON, CONNECTICUT

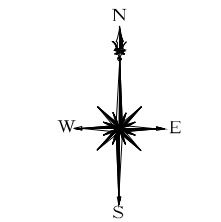
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6763-05		
03 OF 04		

LA-2

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MATCHLINE - SEE SHEET LA-1

[illegible]

NOT FOR CONSTRUCTION

PRELIMINARY SITE LAYOUT PLAN

STONINGTON PV SOLAR ARRAY
GREENSKIES RENEWABLE ENERGY, LLC

TAUGWONK SPUR ROAD
STONINGTON, CONNECTICUT

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JUNE 6, 2019		
DATE		
6763-05		
PROJECT NO.		
04 OF 04		
SHEET NO.		

LA-3



Connecticut Department of

ENERGY &
ENVIRONMENTAL
PROTECTION

July 30, 2019

Megan B. Raymond
Milone & MacBroom, INC
195 Church St, 7th Fl
New Haven, CT 06510
MRAYMOND@MMINC.COM

NDDB DETERMINATION NUMBER: 201908275

Project: STONINGTON PV SOLAR FACILITY, 35 TAUGWONK SPUR RD., STONINGTON, CT

I have reviewed Natural Diversity Database (NDDB) maps and files regarding this project. I concur with your protection measures for Eastern Box Turtle, and I do not anticipate negative impacts to State-listed species (RCSA Sec. 26-306) resulting from your proposed activity at the site. **This determination is good for 2 years.**

Natural Diversity Database information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey and cooperating units of DEEP, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the Database should not be substitutes for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Database as it becomes available. The result of this review does not preclude the possibility that listed species may be encountered on site and that additional action may be necessary to remain in compliance with certain state permits.

Please contact me if you have further questions at shannon.kearney@ct.gov . Thank you for consulting the Natural Diversity Database.


Sincerely,


/s/ Shannon B. Kearney
Wildlife Biologist

Natural Diversity Data Base Areas

STONINGTON, CT

December 2018

 State and Federal Listed Species
& Significant Natural Communities

 Town Boundary

NOTE: This map shows general locations of State and Federal Listed Species and Significant Natural Communities. Information on listed species is collected and compiled by the Natural Diversity Data Base (NDDB) from a number of data sources. Exact locations of species have been buffered to produce the general locations. Exact locations of species and communities occur somewhere in the shaded areas, not necessarily in the center. A new mapping format is being employed that more accurately models important riparian and aquatic areas and eliminates the need for the upstream/downstream searches required in previous versions.

This map is intended for use as a preliminary screening tool for conducting a Natural Diversity Data Base Review Request. To use the map, locate the project boundaries and any additional affected areas. If the project is within a shaded area there may be a potential conflict with a listed species. For more information, complete a Request for Natural Diversity Data Base State Listed Species Review form (DEP-APP-007), and submit it to the NDDB along with the required maps and information. More detailed instructions are provided with the request form on our website.

www.ct.gov/deep/nddbrequest

Use the CTECO Interactive Map Viewers at www.cteco.uconn.edu to more precisely search for and locate a site and to view aerial imagery with NDDB Areas.

QUESTIONS: Department of Energy and Environmental Protection (DEEP)
79 Elm St., Hartford CT 06106
Phone (860) 424-3011



Connecticut Department of
Energy & Environmental Protection
Bureau of Natural Resources
Wildlife Division

