Stormwater Pollution Control Plan
Solar Photovoltaic Project
Rocky Hill, Connecticut

Prepared for:
Solar City, Inc.

Prepared by:
Weston & Sampson Engineers, Inc.

May 2016

engineering, energy, planning, permitting, design, construction, operation, maintenance

Weston&Sampson®

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INTRODUCTION & SITE DESCRIPTION

This Stormwater Pollution Control Plan (SPCP) has been prepared on behalf of Solar City, Inc. as part of the registration process under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities effective October 1, 2013. The subject property is owned by the Town of Rocky Hill with Solar City as the host. The Town of Rocky Hill is the registrant for this general permit. This property has driveway access from the intersection of Old Forge Road, Belamose Avenue, and Dividend Road. The project site has a total area of approximately 98.0 acres. This area currently consists of a combination of wooded areas, cultivated fields, bare earth/dirt areas, gravel driveways, reclaimed pavement driveways, and a high grass meadow area where an existing stormwater basin is located at the lowest elevation of the watershed.

The proposed development consists of a raised solar panel system in which the lowest end of the panel is located approximately 3 feet above existing grade. There is little to no grading proposed for this project. Solar panels shall be mounted to a racking system supported by posts driven into existing soil. Posts are to be designed by the manufacturer and will likely be steel H piles. Each array will be supported by a post at each end. The areas below and between the solar panels shall be seeded for turf establishment. This also shall be applied to the development areas beyond the solar arrays within the proposed security fence enclosure. The project area has a discharge point located at the north-east corner. The total disturbed project area for the entire project is 24.0 acres and this work area is being registered with CTDEEP as a locally exempt new registration.

During construction, the contractor shall be responsible for implementing all sedimentation and erosion control measures as shown in the plans and as defined in this SPCP. Erosion and sedimentation controls will be implemented and adjusted as needed throughout construction to minimize soil erosion.

PLAN IMPLEMENTATION

The proposed development at the site involves disturbing existing areas to install solar panels. The execution of this work risks sediment transport to an off-site stream and wetlands area and its receiving waters by disturbance of the soils and current site hydrological conditions. This plan addresses this risk of pollution caused by soil erosion and sedimentation during construction.

A copy of this plan will be kept at the construction site throughout the construction period, and will be retained on record by Weston & Sampson, Solar City, Inc. and the Town of Rocky Hill, as permittee, for at least three years following completion of the site remediation activities. Copies of this SPCP will be distributed to responsible parties associated with the project. The SPCP will be maintained in the field office during construction. The project contractor will be responsible for the implementation of this SPCP. The Contractor will sign the contractor certification statement included in Appendix B.

PLAN LIMITATIONS AND AMENDMENT

This SPCP is designed to be adaptable and may require the use of professional judgment exercised in the field. The specific erosion control measures contained in this document are expected to be the minimum necessary. Measures providing greater protection may be needed in some areas, depending on specific site conditions and the nature of construction activity. In this case, the configuration of erosion control measures in the field will be modified to ensure compliance with the Guidelines.

More significant changes to the SPCP may also be required because of specific or changing site conditions. If required, this plan will be amended to remain in compliance with the requirements of the storm water general permit for construction activities. Specifically, this plan will be amended whenever one of the following occurs:

- If there is a change in design, construction, operation or maintenance at the site, which has a significant effect on the potential for the uncontrolled discharge of pollutants,
- If there is a change in any contractor or subcontractor whose activities could potentially cause stormwater pollution, or
- If the plan is ineffective in eliminating or significantly minimizing pollutants from sources or in otherwise achieving the general objectives of controlling pollutants in the stormwater.

In summary, the plan will be amended at any time it is determined to not meet the minimum requirements of the stormwater general permit or Guidelines.

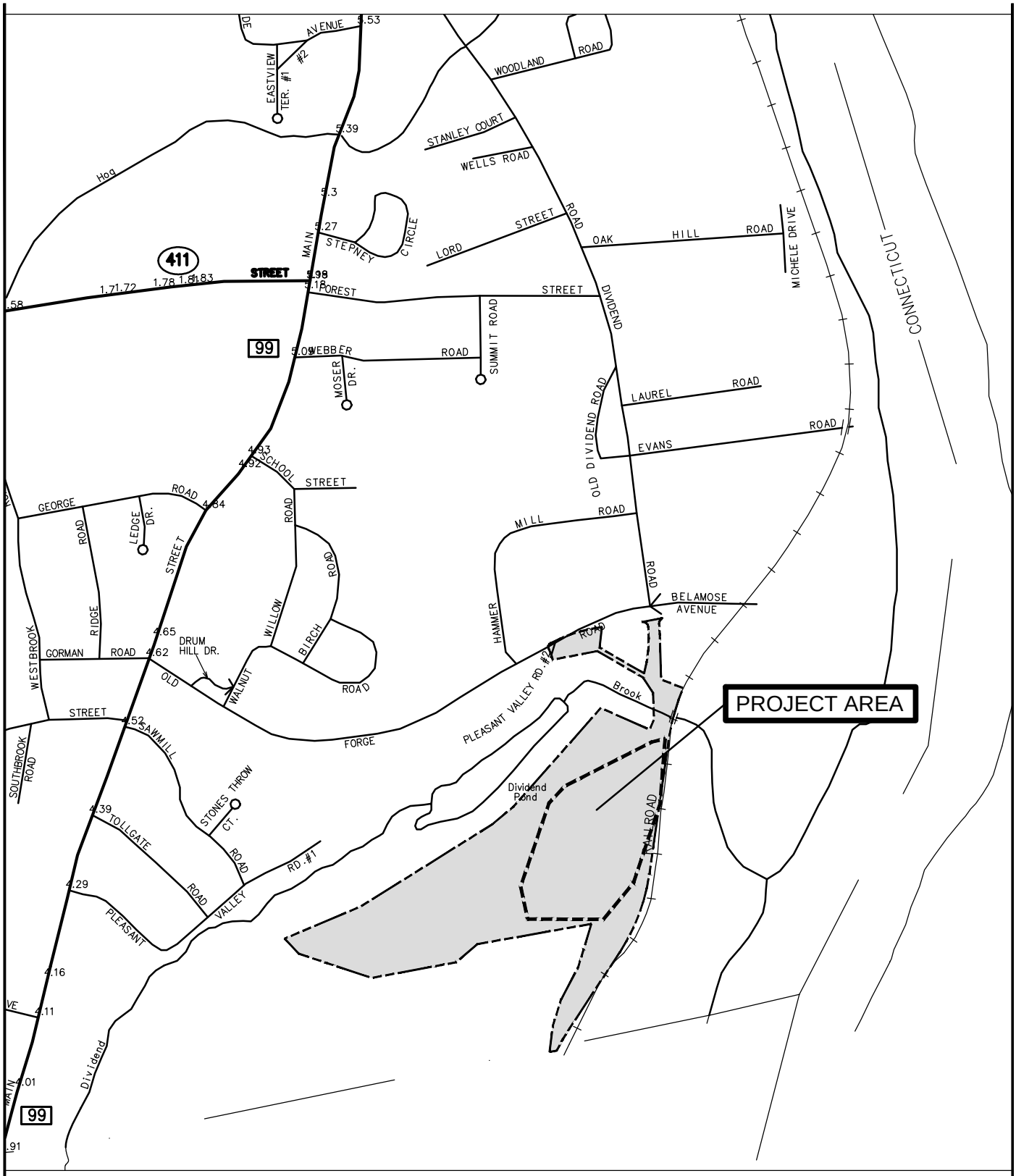


FIGURE 1: LOCATION MAP

13 OLD FORGE ROAD, ROCKY HILL, CONNECTICUT

SCALE: 1"=1000'

0 1000' 2000'

SOURCE:
CONN DOT TRU MAP

RECEIVING WATERS AND SITE DRAINAGE

The general topography of the project area enables the stormwater runoff to flow in a northeasterly direction eventually discharging into an existing stormwater basin with an outlet structure. The runoff initially flows as sheet flow and then becomes shallow concentrated flow for the remainder of the distance. A 48" ACCMP discharges the runoff into Dividend Brook which eventually discharges into the Connecticut River. There is an existing outlet control structure which mitigates the peak rate of runoff from the watershed area and ultimately discharges to the existing wetland area further north via a 48" RC pipe. According to NRCS Soils Mapping, the site is classified as "305 Udorthents- Pits complex, gravelly." The Udorthents was identified as Hydrologic Soil Group C by NRCS.

An important aspect of the site's stormwater analysis is how the post-development peak flows are to be analyzed. The proposed development consists of a raised solar panel system in which the lowest end of the panel is located approximately 3' above existing grade. The footprint of each post is negligible and will not be considered for impervious coverage. The areas below and between the solar panels will be seeded for turf establishment. To maintain unobstructed light to the solar panels, grass would be periodically mowed to maintain a maximum height of 2.0 to 3.0 feet. Under this proposed design, stormwater runoff flow paths shall remain unchanged from pre to post-development conditions. This post-development analysis is also consistent with other analyses performed for similar raised panel photovoltaic systems throughout the country in which the post-development flow path(s) remain essentially unchanged from that of pre-development.

The limits of disturbance and the associated sediment and erosion controls are shown on the design drawings. The area of disturbance will be 24 acres. The elimination of bituminous millings and a portion of the gravel path results in reducing the existing impervious area from 3.06% to 0.7% for post- construction condition. The run-off coefficient for both pre- and post-construction condition is 81. Overall the peak flows from the site decrease for the post development conditions for storms ranging from a 2-year to a 100-year event.

CONSTRUCTION SEQUENCE

The project is scheduled to commence in August 2016 and complete by October 2016. Prior to performing any work, the contractor shall install all the erosion and sedimentation control measures. The general construction sequence consists of:

- Stakeout limit of construction.
- Clear trees according to clearing limits indicated on the erosion and sedimentation control plan.
- Install driver piles, racking system, and solar panels.
- All disturbed areas shall be repaired with topsoil and seeded for turf establishment.
- Construct all utility pads, conduit runs, and all associated utility wiring and supports.
- Re-seed the "area available for photovoltaic modules" with shade tolerant seed mix between and below solar panel rows.

- Erosion and sedimentation controls shall be maintained through final acceptance and shall not be removed until ground cover has been established.

Normal onsite working hours will occur between 7 AM and 5 PM, Monday through Friday.

EROSION AND SEDIMENTATION CONTROL

Erosion and sediment controls shall conform to the requirements of the "Connecticut Guidelines for Soil Erosion and Sediment Control" dated May 2002 and the 2004 "Connecticut Stormwater Quality Manual". The proposed project includes erosion control measures to adequately control accelerated erosion and sedimentation and reduce the impacts of stormwater runoff at the site.

Construction notes pertaining to Erosion and Sedimentation (E&S) are provided on Sheet D-1 of the plan set; and E&S Control measures are provided on Sheet C-1 of the plan set. Prior to construction, the contractor will be required to submit detailed plans for erosion & sedimentation control in order to ensure permit compliance and understanding. These plans will be reviewed by the Engineer for compliance against approved permits, as well as the construction plans and specifications, which include design details for E&S measures. Also, prior to performing any work, the contractor shall install all the erosion and sedimentation control measures. This includes sedimentation control system, anti-track pads, stockpile protection, and other measures noted on this site plan.

During construction, the contractor will be expected to revise and maintain all erosion and sedimentation control measures to ensure that they are effective and provide adequate protection to the stream and wetland environment adjacent to the project area. Requirements of the erosion and sedimentation control plans are included in the plans. Also, an experienced inspector will be on site during the entire project to ensure that all construction operations, including the installation and maintenance of E&S measures, are performed in accordance with the approved plan and contract requirements.

Sources of Erosion, Sediment and Stormwater Runoff

This section discusses the potential for generation of erosion, sedimentation and runoff for each of the work elements identified in the design drawings.

- ***General Site Activities***

Proposed work activities will be performed using wheeled and/or tracked mechanical equipment that will likely include excavators, bulldozers, compactors, dump trucks and front end loaders. This equipment will work in areas of exposed soil and/or sediment. These activities have the potential to generate dust and to cause tracking of soil.

- ***Clearing and Grubbing***

Proposed work activities will be performed using wheeled and/or tracked mechanical equipment that will likely include excavators, bulldozers, compactors, dump trucks and front end loaders.

This equipment will work in areas of exposed soil and/or sediment. These activities have the potential to generate dust and to cause tracking of soil.

- ***Excavation and Transport of Soil***

Remedial activities will involve the excavation and removal of impacted soil to the extents specified in the design drawings. It will include the relocation of soils in some areas of the site. Although the immediate temporary disturbance of the existing soils will likely increase the potential for erosion, implementation of the erosion and sediment controls will mitigate this potential increase.

Temporary Erosion and Sediment Control Measures

This section describes management practices and structures for sediment and erosion control during construction. Specific requirements for implementation of these practices are described in the Guidelines. Details of the measures described and locations where they will be placed are shown in the design drawings.

- ***Dust Control***

Dust control practices are used to prevent the movement of dust from exposed soil surfaces, which may cause both off-site and on-site impacts. These practices are applicable for locations where there are unstable soils exposed to construction traffic and where unstable soils are located in open areas where they are exposed to wind.

During all intrusive remediation activities, visual air monitoring will be performed to ensure that the construction activities do not generate unacceptable levels of dust. If air monitoring results indicate dust levels are exceeded, dust suppression will be implemented. Dust suppression may include one or more of the following:

- Applying water to active work areas and access roads;
- Applying water to the construction equipment and stockpiled materials as necessary;
- Minimizing the area of disturbance/active work areas to the minimum area required to facilitate the specific work activities being conducted at any one time; and/or
- Ceasing work activities during excessively windy conditions.
- During the use of water for dust suppression, the volume of water shall be minimized to prevent run-off.

- ***Temporary seeding***

The Guidelines specify that disturbed areas should be seeded with a temporary seed mixture within 7 days after grading work is completed in areas where work will not resume for at least 30 days and no more than one year. Temporary seeding is anticipated based on the project schedule.

- ***Mulch for seed***

Mulch for seed is a biodegradable cover placed over the soil surface after seeding to provide temporary erosion protection to support the growth of grass until it is well established. Common materials used for mulch include hay, straw, cellulose fiber and tackifiers. Tackifiers are liquids consisting of vegetable gums or synthetic materials which are sprayed on the ground surface and which create a thin, porous, biodegradable membrane. Mulch will be used in all locations where

temporary or permanent seed is applied to bare earth. Material and placement requirements for mulch are included in the design documents and are based on requirements included in the Guidelines.

- ***Silt Fence Sediment Barrier***

A silt fence sediment barrier will be installed along the perimeter of the disturbed areas prior to construction. Locations where the barrier will be placed are shown on the design drawings. After the erosion control measures are installed, they will be inspected by the oversight personnel to ensure adequate coverage/protection and installation in accordance with the Contract Documents.

During construction, the silt fence will be inspected at least once per week and within 24 hours following any storm in which 0.5 inches or greater rain occurs, to determine if maintenance is required. If sediment deposits reach one-half the height of the barrier, they will be removed. Sediments removed from the barrier will be placed with other impacted soil in the consolidation area. The combination barrier will continue to be inspected and maintained following construction and until permanent seeding has become established with a minimum of 80 percent coverage as determined by the oversight personnel.

- ***Construction Entrance***

A stabilized construction entrance will be constructed at each entrance and exit from disturbed areas in order to control the tracking of soils into other areas. The stabilized construction entrance will consist of a geotextile separation layer and a layer of coarse crushed stone. The entrance will be maintained as required until construction traffic to the disturbed areas is no longer occurring.

Permanent Erosion and Sediment Control Measures

This section describes permanent management practices and structures for sediment and erosion control that will remain in place following construction. Specific requirements for implementation of these practices are described in the Contract Documents.

- ***Topsoil***

The disturbed areas will be seeded for turf establishment and therefore no top soil will be placed as the final layer.

- ***Permanent Seeding***

Permanent seeding will be used to stabilize the cover surface. Seed mixtures and application rates, soil amendments and application rates, planting periods and initial irrigation and mowing requirements are described in the Design drawings.

WATER QUALITY

The runoff from site discharges into a stormwater basin located in the north-east corner of the project area. The stormwater basin is vegetated with shrubs and meadow grass. It currently serves as both a stormwater detention measure as well as a water quality retention unit. It is not expected to transport considerable amount of sediment from 0.7% impervious area of the overall site. The developed site would require a water quality volume of 0.46 ac-ft with a water quality flow of 1.64 cfs.

The stormwater runoff from the 48" RCP discharges into a natural preformed scour hole with standard riprap. The channel downstream of the outfall is lined up with standard sized riprap at the bottom and on the banks. It should be noted that the proposed peak discharges are less than the existing peak discharges. Therefore no additional erosion control measures are required at the outfall.

INSPECTIONS

The project site must be inspected initially within the first 30 days following commencement of the construction activity. The site shall be inspected at least once and no more than three times during the first 90 days to ensure proper implementation of all sedimentation and erosion control measures. Inspections must be completed by a qualified representative of the registrant.

The permitee shall routinely inspect on a weekly basis and within 24 hours of a rainfall event that generates a discharge until a notice of termination has been submitted. The permitee shall maintain a rain gauge on site to document rainfall amounts. For storms that equal or exceed 0.5 inches that end on a weekend, holiday or other time after which normal working hours will not commence within 24 hours, an inspection is required within 24 hours. For storms of less than 0.5 inches, an inspection shall occur immediately upon the start of the subsequent normal working hours. Once the site has been temporarily or finally stabilized, an inspection shall be conducted at least once every month for three months.

A report shall be prepared and retained as part of the plan. The report shall summarize the following:

- The scope of the inspection
- Name and qualifications of the personnel performing the inspection
- Date of the inspection
- Weather conditions including precipitation information
- Major observations relating to the implementation of the stormwater pollution control plan
- Description of the stormwater discharge from the site
- Any water quality monitoring performed during the inspection
- Statement that the site is either in compliance or out of compliance with the terms and conditions of the Plan and General Permit.

If the site inspection indicates that the site is out of compliance, the inspection report shall include a summary of the required remedial actions. Interim measures shall be implemented to minimize the potential for the discharge of pollutants from the site during the period in which any corrective actions are being developed.

MONITORING

Stormwater sampling for monitoring turbidity is required at the project site. Sampling shall occur on a monthly basis during storm events that generate a stormwater discharge from the site while construction activity is ongoing, until final stabilization of the drainage area associated with the outfall is achieved. Sampling is not required if there is no stormwater discharge or may be temporarily suspended if the conditions pose a threat to the safety of the person taking the sample.

All samples shall be collected from discharges resulting from a storm event that occurs at least 24 hours after any previous storm event generating a stormwater discharge. Samples shall be grab samples taken at least three separate times during a storm event and shall be representative of the flow and the characteristics of the discharge. The first sample shall be taken within the first hour of stormwater discharge from the site. If there is no discharge during any given monitoring period, the permittee shall submit the form as required and indicate "no discharge" for monitoring results. Samples may be taken manually or by an in-situ turbidity probe or other automatic sampling device equipped to take individual turbidity readings (i.e. not composite). The average of the three samples will be reported. Monitoring reports shall be submitted to CTDEEP in accordance with the provisions outlined in the General Permit. The outlet of the 48" ACCMP is the sampling point for this project.

A blank copy of the stormwater monitoring report form is included in Appendix D.

POST CONSTRUCTION STORMWATER MANAGEMENT AND CONTROLS

All disturbed areas shall be stabilized at the end of construction. The contractor shall be responsible for cleaning all post-construction stormwater structures and removal of remaining silt fence before filing a termination notice. The Engineer, or a qualified representative, shall inspect the site 3 months after stabilization has been achieved. If the inspection confirms that the site is stable, as described in the General Permit, the owner's representative shall submit to the CT DEEP a Notice of Termination form.

RECORDKEEPING AND INTERNAL REPORTING PROCEDURES

The Engineer will retain the following records for at least five (5) years from the submission date of the Notice of Termination (NOT):

- General Permit;
- SPCP Site Inspection Records;

- Contractor Certifications; and
- Notice of Termination.

An SPCP logbook will be used to provide effective recordkeeping over the course of the project. As required by the SPCP General Permit, the logbook will include:

- Records of spills, leaks or overflows including time, date and weather conditions;
- Implementation of the SPCP;
- Training events;
- Events involving materials handling and storage;
- Contacts with regulatory agencies;
- Installation of stormwater management controls;
- Maintenance and repair of stormwater management controls;
- Preventative maintenance activities; and
- Inspection activities.

ENDANGERED AND THREATENED SPECIES

The project site is located within an area of state and federal listed endangered or threatened species based on the review of the Natural Diversity data Base (NDDB) Areas in Rocky Hill, CT. An NDDB review was requested through which the Big Sand Tiger Beetle was found to be the species of concern. A biologist study was performed with recommended measures to minimize the impacts on the concerned species. A final approval from NDDB is pending. A copy of the latest NDDB map dated September 2015 is included as part of Attachment C of the General Permit Registration Form.

TERMINATION

A termination notice shall be filed by the registrant once the project is complete. A project shall be considered complete once the site has been stabilized and all final inspections are performed. A blank copy of the Notice of Termination Form is included in Appendix E.

Plan Certification

Permittee Certification

"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 those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

Signature

Guy Scaife, Town Manager

Printed Name and Title

Town of Rocky Hill, CT

Organization Name

761 Old Main Street

Address

Rocky Hill, CT 06067

City, State, ZIP Code

860-258-2700

Telephone

05-03-2016

Certification Date

Professional Engineer Certification

"I hereby certify that I am a professional engineer licensed in the State of Connecticut. I am making this certification in connection with a registration under such general permit, submitted to the commissioner by Weston & Sampson on behalf of Solar City for the Site located at 13 Old Forge Road, Rocky Hill, CT. I certify that I have thoroughly and completely reviewed the Stormwater Pollution Control Plan for the project or activity covered by this certification. I further certify, based on such review and on the standard of care for such projects, that the Stormwater Pollution Control Plan has been prepared in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, the Stormwater Quality Manual, as amended, and the conditions of the general permit, and that the controls required for such Plan are appropriate for the site. I further certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I also understand that knowingly making any false statement in this certification may subject me to sanction by the Department and/or be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

Signature

Raju Vasamsetti, P.E.
Project Manager

Printed Name and Title

Weston & Sampson

Firm Name

273 Dividend Road

Address

Rocky Hill, CT 06067

City, State, ZIP Code

860 513 1473

Telephone

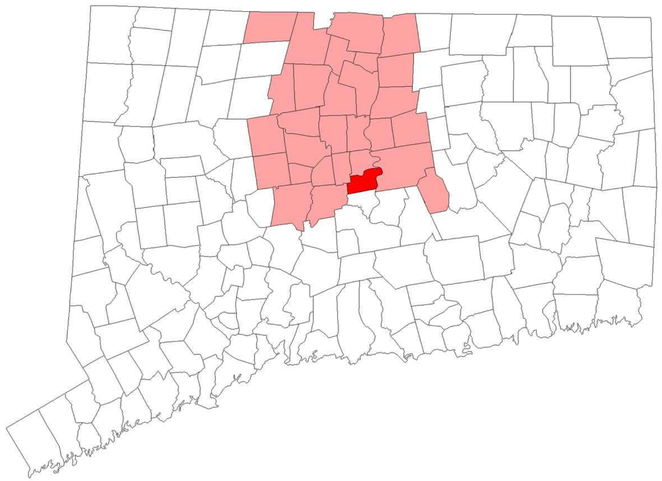
05-06-16

Certification Date

Design Drawings

ROCKY HILL, CONNECTICUT
SOLAR PHOTOVOLTAIC (PV) PROJECT

R013 OLD FORGE ROAD
ROCKY HILL, CONNECTICUT 06067



CONNECTICUT MUNICIPAL MAP
SCALE: N.T.S.

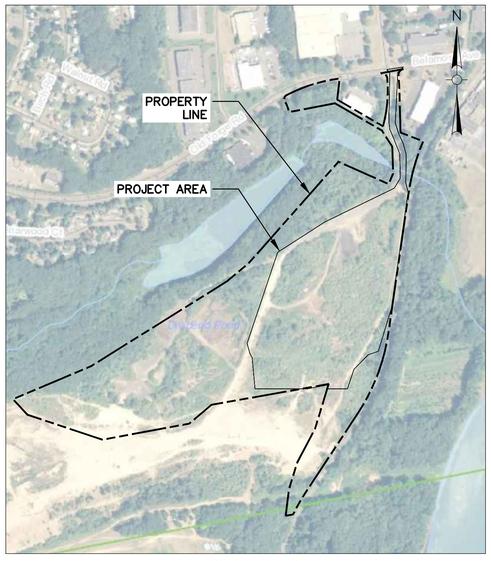
PROJECT DIRECTORY	
DEVELOPER(S): SOLAR CITY, INC. 1376 LEAD HILL BLVD. ROSEVILLE, CA 95661 CONTACT: JOSHUA TROGLIN (650) 332-0412	RACKING SYSTEM DESIGNER: RBI SOLAR 5513 VINE STREET CINCINNATI, OH 45217 CONTACT: LOUIS "PAT" HUDEPOHL 513-618-2183
HOST: TOWN OF ROCKY HILL R013 OLD FORGE ROAD ROCKY HILL, CONNECTICUT 06067	UTILITY: EVERSOURCE
ENGINEER: WESTON & SAMPSON ENGINEERS, INC. 273 DIVIDEND ROAD ROCKY HILL, CONNECTICUT 06067 CONTACT: JOHN FIGURELLI (860) 513-1473	
ELECTRICAL ENGINEER: PLUMP ENGINEERING, INC 914 E KATELLA AVENUE ANAHEIM, CA 92805 CONTACT: ANN D'ALESSANDRO (518) 796-1030	

DRAWING INDEX - WESTON & SAMPSON	
SHEET	SHEET TITLE
T-1	COVER SHEET
G-1	ABBREVIATIONS, NOTES, AND LEGEND
D-1	DETAILS
C-1	EXISTING CONDITIONS
C-2	LAYOUT PLAN
C-3	EROSION & SEDIMENTATION CONTROL PLAN

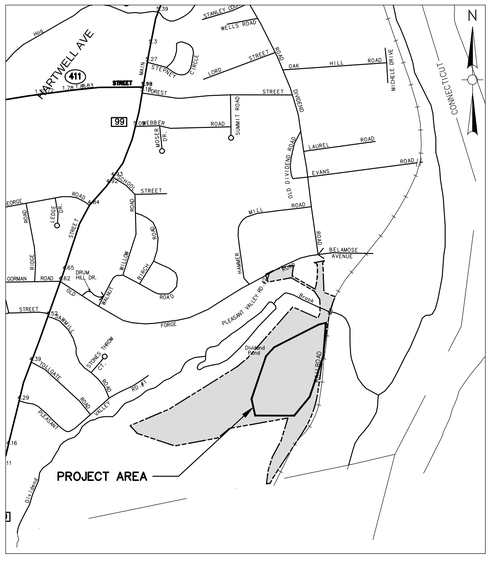
DRAWING INDEX - SOLAR CITY BLOCK 1 (JB: 0602328-00)	
SHEET	SHEET TITLE
PV-5	STRUCTURAL DETAILS & INVERTER PADS
PV-6	PV EQUIPMENT PLAN & ELEVATION
PV-7	EQUIPMENT DETAILS

DRAWING INDEX - RBI SOLAR	
SHEET	SHEET TITLE
S-201	ADDITIONAL POST SECTIONS & ELEVATIONS
S-301	RACK SECTION & BAY PLAN VIEWS

SOLAR PHOTOVOLTAIC (PV) SYSTEM DESCRIPTION			
SYSTEM	MOUNTING PLANE I.D. 1	MOUNTING PLANE I.D. 2	MOUNTING PLANE I.D. 3
SYSTEM SIZE	1,300,750 kW	1,300,750 kW	1,301,520 kW
MODULE	(4,730) TRINA SOLAR TSM-PD14 (275W)	(4,730) TRINA SOLAR TSM-PD14 (275W)	(4,488) TRINA SOLAR TSM-PD14 (290W)
TILT ANGLE	30 DEGREES	30 DEGREES	30 DEGREES
AZIMUTH	170 DEGREES	170 DEGREES	170 DEGREES
RACKING	RBI RACKING	RBI RACKING	RBI RACKING



SITE LOCUS MAP (AERAIL VIEW)
SCALE: 1"= 500'



SITE LOCATION MAP
SCALE: 1"=1000'

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Project:
ROCKY HILL SOLAR PROJECT

R013 OLD FORGE ROAD
ROCKY HILL, CT 06067

SolarCity
3055 Clearview Way
San Mateo, CA 94402
(550) 638-1028
www.solarcity.com

Weston&Sampson
273 Dividend Road Rocky Hill, Connecticut
(860) 513-1483 (800) Sampson
www.westonandsampson.com

RBI SOLAR
5513 Vine Street
Cincinnati, OH 45217
(513) 618-2183

Revisions:

Rev	Date	Description

Seal:

PERMIT PLANS

JOB NO. 2150769

Date:	03.16.2016
Scale:	AS SHOWN
Drawn By:	LEC
Reviewed By:	JSP
Checked By:	JSP
Approved By:	RGT

Drawing Title:

COVER SHEET

Sheet Number:

T-1

LEGEND

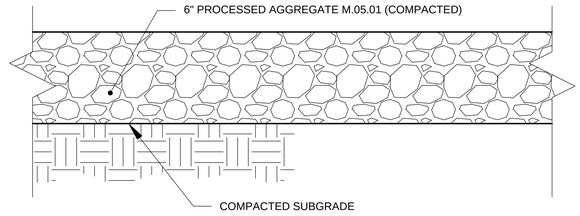
DESCRIPTION	EXISTING	PROPOSED
CATCH BASIN		CB
HYDRANT		
UTILITY POLE		
POLE-MOUNTED LIGHT FIXTURE		
EDGE OF PAVEMENT		
EDGE OF UNPAVED ROAD		
PROJECT AREA		
OVERHEAD WIRE (ELECTRICAL)	G	DIV
ELECTRICAL CONDUIT (SUBGRADE)	E	E
RAILROAD		
STONE WALL		
RETAINING WALL		
FENCE		
INDIVIDUAL DECIDUOUS TREE		
INDIVIDUAL EVERGREEN TREE		
EDGE OF WOODS/ CLEARING		
DEBRIS / SOIL PILE / RUBBLE		
ELECTRIC METER		
SURVEY MARKER		
PROPERTY BOUNDARY		
MOUNTING PLANE LIMIT		
SPOT ELEVATIONS	x 46	x 46
CONTOUR LINES	46	
RESOURCE FLAG	TOB/BVW	
GUY WIRE		
EROSION CONTROL MATTING		
RIP RAP		
SIGN		
BENCH MARK		
SEDIMENT/EROSION CONTROLS		
ROCK OUTCROP		
SEWER MANHOLE	S	
MANHOLE (MH) FOR UNDERDRAIN SYSTEM		
DRAIN MANHOLE (DMH)	D	
UTILITY MANHOLE	U	
GROUND-MOUNTED SOLAR PV MODULES (ELECTRICALLY CONNECTED)		
OVERHEAD WIRE	OH	
BORDERED VEGETATED WETLAND BUFFER		
WETLAND FLAG	WF	
IRON PIN		

ABBREVIATIONS

±	MORE OR LESS
TYP	TYPICAL
ACCMP	ASPHALT COATED CORRUGATED METAL PIPE
AC	ALTERNATING CURRENT
DC	DIRECT CURRENT
RCP	REINFORCED CONCRETE PIPE
INV	INVERT
FEU	FLARED END UNIT
W/	WITH
WF #1	WETLAND FLAG
REC	RECOVERED
N/F	NOW OR FORMERLY
CT	CONNECTICUT
DEEP	DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL CALL BEFORE YOU DIG (CBYD) AT 811 OR 1-800-922-4455 AT LEAST 72 HOURS, SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE CALL BEFORE YOU DIG PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
2. LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.
3. STONE WALLS, FENCES, CURBS, ETC. SHALL BE REMOVED AND REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT.
4. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE PROJECT AREA SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.



4 GRAVEL DRIVEWAY

SCALE: N.T.S.

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Project:

ROCKY HILL SOLAR PROJECT

R013 OLD FORGE ROAD ROCKY HILL, CT 06067

SolarCity
3055 Clearview Way
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RBI SOLAR
5513 Vine Street
Cincinnati, OH 45217
(513) 618-2183

Revisions:

Rev	Date	Description

Seal:

PERMIT PLANS

JOB NO. 2150769

Date:	03.16.2016
Scale:	AS SHOWN
Drawn By:	LEC
Reviewed By:	JSP
Checked By:	JSP
Approved By:	DCH

Drawing Title:

ABBREVIATIONS, NOTES, LEGEND, AND DETAILS

Sheet Number:

G-1

GENERAL NOTES

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PERFORMED IN ACCORDANCE WITH THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (MAY 2002). THE CONTRACTOR SHALL OWN AND MAINTAIN A COPY OF THE GUIDELINES ON-SITE DURING CONSTRUCTION.

ALL DISTURBED AREAS SHALL BE KEPT TO A MINIMUM. FINAL GRADING AND RESTORATION SHALL BE ACCOMPLISHED AS SOON AS PRACTICAL.

EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO SITE WORK. IF IT IS NOT POSSIBLE TO DO SO, THE ENGINEER SHALL BE NOTIFIED IN ORDER TO MAINTAIN THE INTEGRITY OF DESIGN.

ALL CONTROL STRUCTURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND REMOVED WHEN STABILIZATION HAS BEEN ATTAINED. IF THE PROPOSED CONTROL MEASURES ARE NOT SATISFACTORY, ADDITIONAL CONTROL MEASURES SHALL BE TAKEN.

ALL RUNOFF FROM THE DISTURBED AREA SHALL BE CONTROLLED AND FILTERED. NON-WOVEN SYNTHETIC FIBER FILTER FABRIC, STRAW BALES OR SILT SOCKS SHALL BE USED IN THE AREAS SHOWN ON THE SITE PLAN AND INSTALLED AS SHOWN ON THIS PLAN.

A CT DEEP GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES WILL BE REQUIRED FOR THE PROPOSED PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION AND COMPLIANCE WITH THE APPROVED STORMWATER POLLUTION CONTROL PLAN (SWPCP).

THE CONTRACTOR MUST OBTAIN COPIES OF THE ZONING, WETLANDS AND CTDEP STORMWATER PERMITS PRIOR TO THE START OF WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF SEDIMENT AND EROSION CONTROL MEASURES. THIS RESPONSIBILITY INCLUDES THE ACQUISITION OF MATERIALS, INSTALLATION, AND MAINTENANCE OF EROSION AND SEDIMENT STRUCTURES, THE COMMUNICATION AND DETAILED EXPLANATION TO ALL PEOPLE INVOLVED IN THE SITE WORK OF THE REQUIREMENTS AND OBJECTIVE OF THE EROSION AND SEDIMENT CONTROL MEASURES.

TWO (2) WEEKS PRIOR TO THE START OF WORK THE CONTRACTOR SHALL PROVIDE THE NAME AND PHONE NUMBER OF THE INDIVIDUAL RESPONSIBLE FOR IMPLEMENTATION OF THIS PLAN.

IN THE EVENT THE APPLICANT IS NOT OWNER OF THE PROPERTY, THE CURRENT OWNER SHALL HAVE ALL THE RESPONSIBILITIES LISTED IN THIS PARAGRAPH AND SHALL SUBMIT A WORKING PHONE NUMBER FOR CONTACT AT TIME OF APPLICATION FOR PERMITS. ANY CHANGE IN ENGINEER SHALL BE NOTED AT THIS TIME.

THE ENGINEER, WESTON & SAMPSON ENGINEERS, INC. (860-513-1473) #273 DIVIDEND ROAD, ROCKY HILL, CT, 06067 SHALL BE NOTIFIED OF ANY PROPOSED ALTERATION TO THE EROSION AND SEDIMENT CONTROL PLAN, PRIOR TO ALTERING, IN ORDER TO ENSURE THE FEASIBILITY OF THE ADDITION, SUBTRACTION, OR CHANGE IN THE PLAN.

SEEDING WITHIN GROUND MOUNTED ARRAY AREA

NEW ENGLAND SEMI-SHADE GRASS AND FORBS MIX - THE NEW ENGLAND SEMI-SHADE GRASS AND FORB MIX CONTAINS A BROAD SPECTRUM OF NATIVE GRASSES AND FORBS THAT WILL TOLERATE SEMI-SHADE AND EDGE CONDITIONS. ALWAYS APPLY ON CLEAN BARE SOIL. THE MIX MAY BE APPLIED BY HYDRO-SEEDING, BY MECHANICAL SPREADER, OR ON SMALL SITES IT CAN BE SPREAD BY HAND. LIGHTLY RAKE, OR ROLL TO ENSURE PROPER SEED TO SOIL CONTACT. BEST RESULTS ARE OBTAINED WITH A SPRING SEEDING. LATE SPRING AND EARLY SUMMER SEEDING WILL BENEFIT WITH A LIGHT MULCHING OF WEED-FREE STRAW TO CONSERVE MOISTURE. IF CONDITIONS ARE DRIER THAN USUAL, WATERING WILL BE REQUIRED. LATE FALL AND WINTER DORMANT SEEDING REQUIRE AN INCREASE IN THE SEEDING RATE. FERTILIZER OR LIMING IS PROHIBITED, UNLESS PRIOR APPROVAL BY THE LOCAL CONSERVATION COMMISSION IS OBTAINED. PREPARATION OF A CLEAN WEED FREE SEED BED IS NECESSARY FOR OPTIMAL RESULTS. APPLICATION RATE 30 POUNDS PER ACRE.

MAINTENANCE

MAINTENANCE OF SEEDED AREAS SHALL BE THE SOLE RESPONSIBILITY OF CONTRACTOR AS DESCRIBED BELOW:

A. CONTRACTOR SHALL MAINTAIN THE ENTIRE SEEDED AREAS UNTIL FINAL ACCEPTANCE AT THE COMPLETION OF THE PROJECT OR FOR 90 DAY, WHICHEVER IS LONGER. MAINTENANCE SHALL INCLUDE WATERING AS SPECIFIED ,WEEDING, REMOVAL OF STONES WHICH MAY APPEAR AND REGULAR CUTTINGS OF THE GRASS NO CLOSER THAN 10 DAYS APART. THE FIRST CUTTING SHALL BE ACCOMPLISHED WHEN THE GRASS IS FROM 2-1/2 TO 3 INCHES HIGH. WEEKLY WATERING SHALL PROVIDE THE SEEDED AREAS WITH THE EQUIVALENT OF 1 INCH OF RAINFALL PER WEEK. IF THE SEEDED AREAS ARE WATERED BY NORMAL RAINFALL OR THE NORMAL WATERING IS INADEQUATE DUE TO WEATHER, THE CONTRACTOR MAY AT HIS/HER DISCRETION ELIMINATE OR INCREASE RESPECTIVELY, THE WATERING DURING A GIVEN WEEK. HOWEVER, SUCH ACTION BY CONTRACTOR SHALL IN NO WAY WAIVE CONTRACTOR'S RESPONSIBILITY FOR THE GROWTH AND HEALTH OF THE GRASS UNTIL FINAL ACCEPTANCE. CONTRACTOR SHALL FURNISH ALL TEMPORARY PIPE AND CONNECTIONS FOR SPRINKLING. CONTRACTOR SHALL FURNISH ALL REQUIRED WATER AT NO EXPENSE TO THE OWNER. GARDEN HOSE AND HAND SPRINKLING SHALL BE PERMITTED ONLY IN SPECIAL INSTANCES BY THE OWNER'S REPRESENTATIVE.

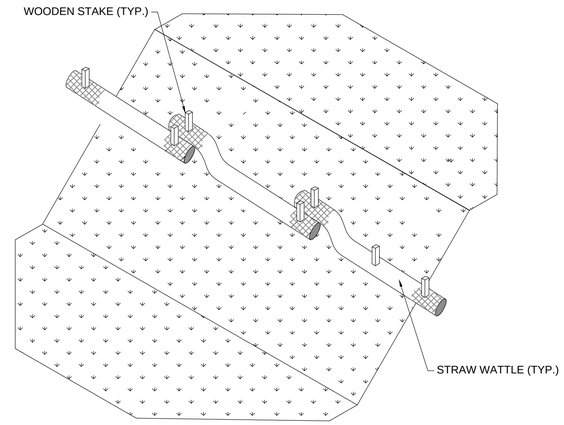
B. ALL BARE SPOTS, WHICH BECOME APPARENT AS THE GRASS GERMINATES, SHALL BE RESEEDED BY CONTRACTOR AT ITS OWN EXPENSE AS MANY TIMES AS NECESSARY TO SECURE A GOOD GROWTH AND THE ENTIRE AREA SHALL BE MAINTAINED AND CUT UNTIL ALL WORK HAS BEEN COMPLETED AND FINAL ACCEPTANCE HAS OCCURRED.

C. CONTRACTOR SHALL TAKE WHATEVER MEASURES ARE NECESSARY TO PROTECT THE GRASS WHILE IT IS GERMINATING. THESE MEASURES SHALL INCLUDE FURNISHING OF WARNING SIGNS, BARRIERS, TEMPORARY FENCE OR ANY OTHER NECESSARY MEASURES OF PROTECTION.

D. CONTRACTOR SHALL FURNISH, PROTECT, AND MAINTAIN ALL TEMPORARY BARRIERS UNTIL FINAL ACCEPTANCE OF THE SEEDED AREAS BY THE OWNER AND SHALL REMOVE THEM UPON SUCH FINAL ACCEPTANCE, THE BARRIERS SHALL REMAIN THE PROPERTY OF CONTRACTOR AT ALL TIMES.

TEMPORARY EROSION CONTROL MEASURES:

1. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS INDICATED ON THESE PLANS OR AS REQUIRED BY THE ON-SITE ENGINEER.
2. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
3. EROSION/SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON PLANS. EROSION CONTROL BARRIERS ARE TO BE MAINTAINED AND CLEANED UNTIL ALL AREAS HAVE BEEN ADEQUATELY STABILIZED.
4. THE TEMPORARY AND PERMANENT STORMWATER CONTROLS SHALL BE PERIODICALLY CLEANED OF SEDIMENT, OR AS REQUIRED BY THE ENGINEER. THE SEDIMENT WILL BE REMOVED TO A SECURE LOCATION SO AS TO PREVENT SILTATION OF NATURAL WATER WAYS.
5. SILT SOCK FILLED WITH COMPOST MUST BE A MINIMUM TUBE DIAMETER OF 12 INCHES (300mm) FOR SLOPES UP TO 50 FEET (15.24m) IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF FILTER TUBES TO CREATE A FILTER BERM. SILT SOCK TO BE MADE OF BIODEGRADABLE BURLAP. SILT SOCK TO BE SEDIMENT FILTERMITT OR APPROVED EQUAL. OTHER REFER TO MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION INSTRUCTIONS.
6. INSTALL SOCK ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
7. CONFIGURE SOCKS AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN-OFF.
8. DISTURBED AREAS SHALL BE SEEDED IMMEDIATELY OR AS SOON AS PRACTICABLE.
9. EROSION CONTROL MEASURES SHALL BE REMOVED WHEN DISTURBED AREA IS STABILIZED. DISTURBED AREA RESULTING FROM THE MEASURE REMOVAL OPERATION SHALL BE SEEDED IN ACCORDANCE WITH THE SPECIFICATIONS.
10. A CHECK LIST (PROVIDED BY THE ENGINEER) SHALL BE FILLED OUT BY THE CONTRACTOR EVERY WEEK OR AFTER EACH RAINFALL EVENT OF 1/2" OR GREATER AS NOTED ABOVE.
11. STRIP AND STOCKPILE TOPSOIL WITHIN THE LIMITS OF THE PROPOSED DEVELOPMENT. PROTECT STOCKPILE PERIMETER WITH EROSION CONTROLS. LOCATE STOCKPILES WHERE INDICATED ON PLANS. TREE STUMPS SHALL EITHER BE REMOVED OR CHIPPED IN PLACE.
12. CUT TREES WITHIN THE DEFINED CLEARING LIMITS AND REMOVE CUT WOOD. CHIP BRUSH AND SLASH, STOCKPILE CHIPS FOR USE ONSITE OR REMOVE OFF-SITE.



1 EROSION CONTROL MEASURES

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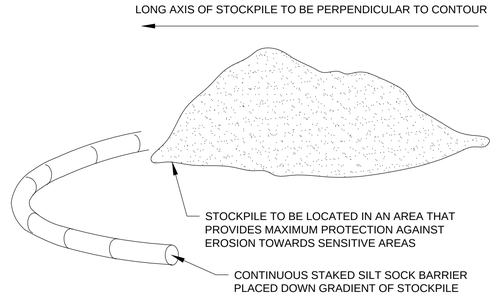
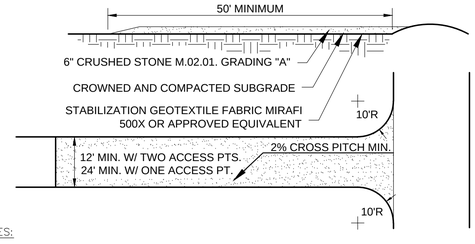


2 TEMPORARY STOCKPILE DETAIL

SCALE: N.T.S.



NOTES:

1. STABILIZATION FABRIC SHALL BE PLACED OVER THE ENTIRE ENTRANCE AREA PRIOR TO PLACING OF STONE. OVERLAP FABRIC PER MANUFACTURER'S SPECIFICATIONS.
2. ALL SURFACE WATER FLOWING OR DIVERTED TOWARDS THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE ROAD.
3. WHEN EQUIPMENT WASHING IS REQUIRED IT SHALL BE DONE ON A SEPARATE AREA ADJACENT TO THE ENTRANCE ROAD AND STABILIZED WITH STONE. EQUIPMENT WASHING WILL BE REQUIRED IF ROAD RECEIVES SIGNIFICANT SOILS OR DEBRIS ACCORDING TO JUDGMENT BY OWNER OR OWNER'S REPRESENTATIVE.
4. KEEP ROADS CLEAR OF STONES, MUD, AND OTHER CONSTRUCTION DEBRIS. CLEAN PAVEMENT AS ACCUMULATIONS WARRANT AND AS ORDERED BY ENGINEER.
5. REMOVE SILT ACCUMULATIONS ROUTINELY AND DISPOSE OF PROPERLY SUCH THAT WATER QUALITY IS NOT IMPAIRED. DO NOT INTRODUCE SILT INTO DRAINAGE SYSTEM OR TOPSOIL/RESTORATION AREAS.

3 CONSTRUCTION ENTRANCE

SCALE: N.T.S.

Project:

ROCKY HILL SOLAR PROJECT

R013 OLD FORGE ROAD ROCKY HILL, CT 06067

SolarCity
3055 Clearview Way
San Mateo, CA 94402
(550) 638-1028
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Weston&Sampson
273 Dividend Road Rocky Hill, Connecticut
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RBI SOLAR
5513 Vine Street
Cincinnati, OH 45217
(513) 618-2183

Revisions:

Rev	Date	Description

Seal:

PERMIT PLANS

JOB NO. 2150769

Date:	03.16.2016
Scale:	AS SHOWN
Drawn By:	LEC
Reviewed By:	JSP
Checked By:	JSP
Approved By:	DCH

Drawing Title:

DETAILS

Sheet Number:

D-1

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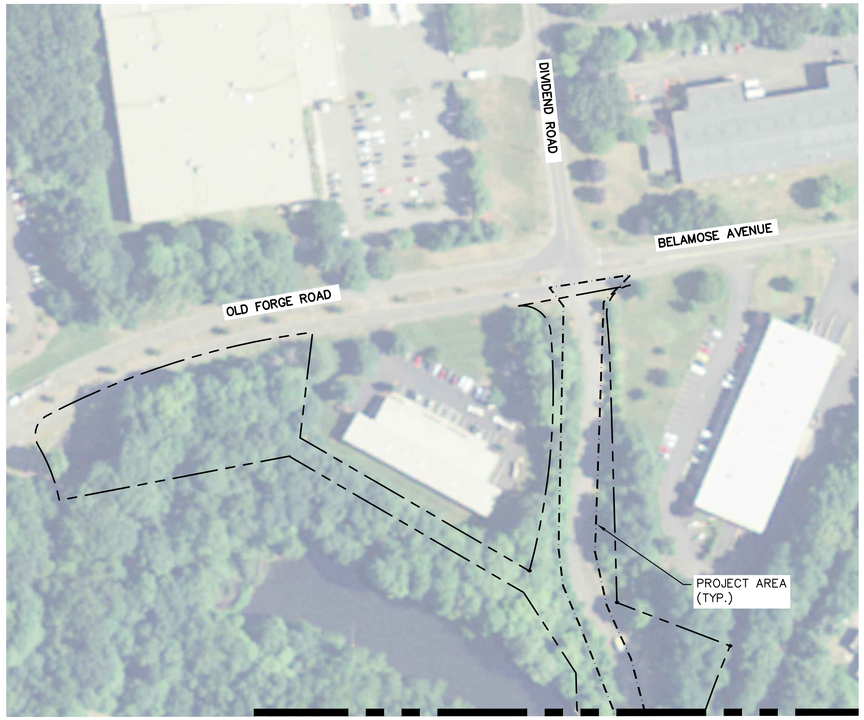

N

NOTES:

1. BASE MAP IS BASED ON A SURVEY CONFORMING TO HORIZONTAL CLASS B AND TOPOGRAPHIC CLASS T-2 ACCURACY STANDARDS, COMPLETED ON OCTOBER 28, 2015, PREPARED BY BOUNDARIES L.L.C., 179 PACHAUG RIVER DRIVE, GRISWOLD, CT.
2. NORTH ORIENTATION DEPICTED HEREON IS APPROXIMATE NORTH AMERICAN DATUM 1983 (NAD83) BASED UPON GLOBAL POSITIONING SYSTEM OBSERVATIONS, OBSERVED ON OCTOBER 20, 2015.
3. VERTICAL DATUM DEPICTED HERE ON IS APPROXIMATE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) BASED GLOBAL POSITIONING SYSTEM OBSERVATIONS USING GEOIDE12A ON OCTOBER 20, 2015.

PLAN
SCALE: 1"=100'
0 100' 200' 300'

Project:

ROCKY HILL SOLAR PROJECT

R013 OLD FORGE ROAD
ROCKY HILL, CT 06067

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Seal:

PERMIT PLANS

JOB NO. 2150769

Date:	03.16.2016
Scale:	1"=100'
Drawn By:	LEC
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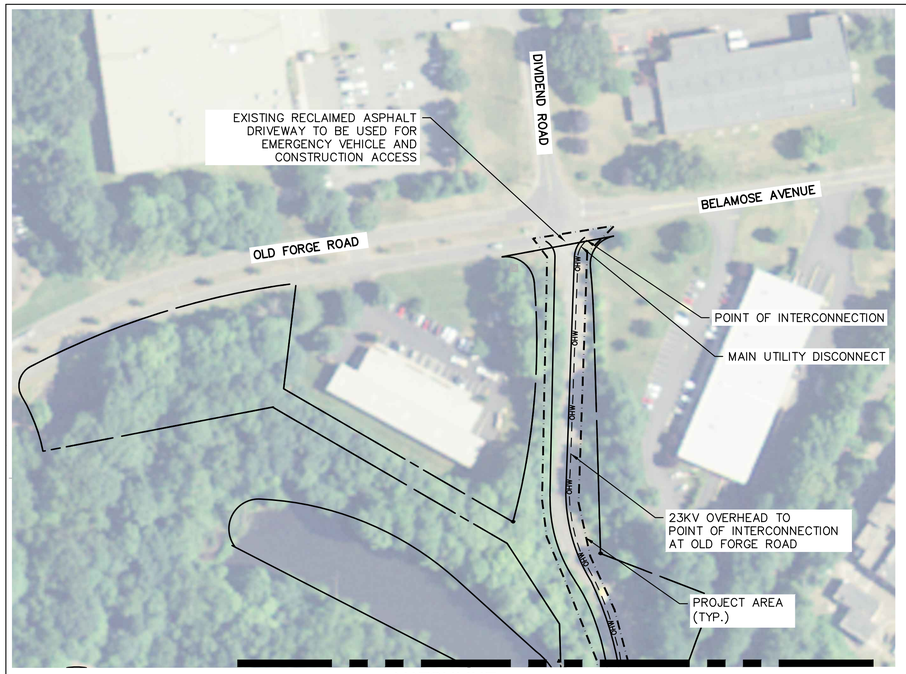
Approved By:	RGT

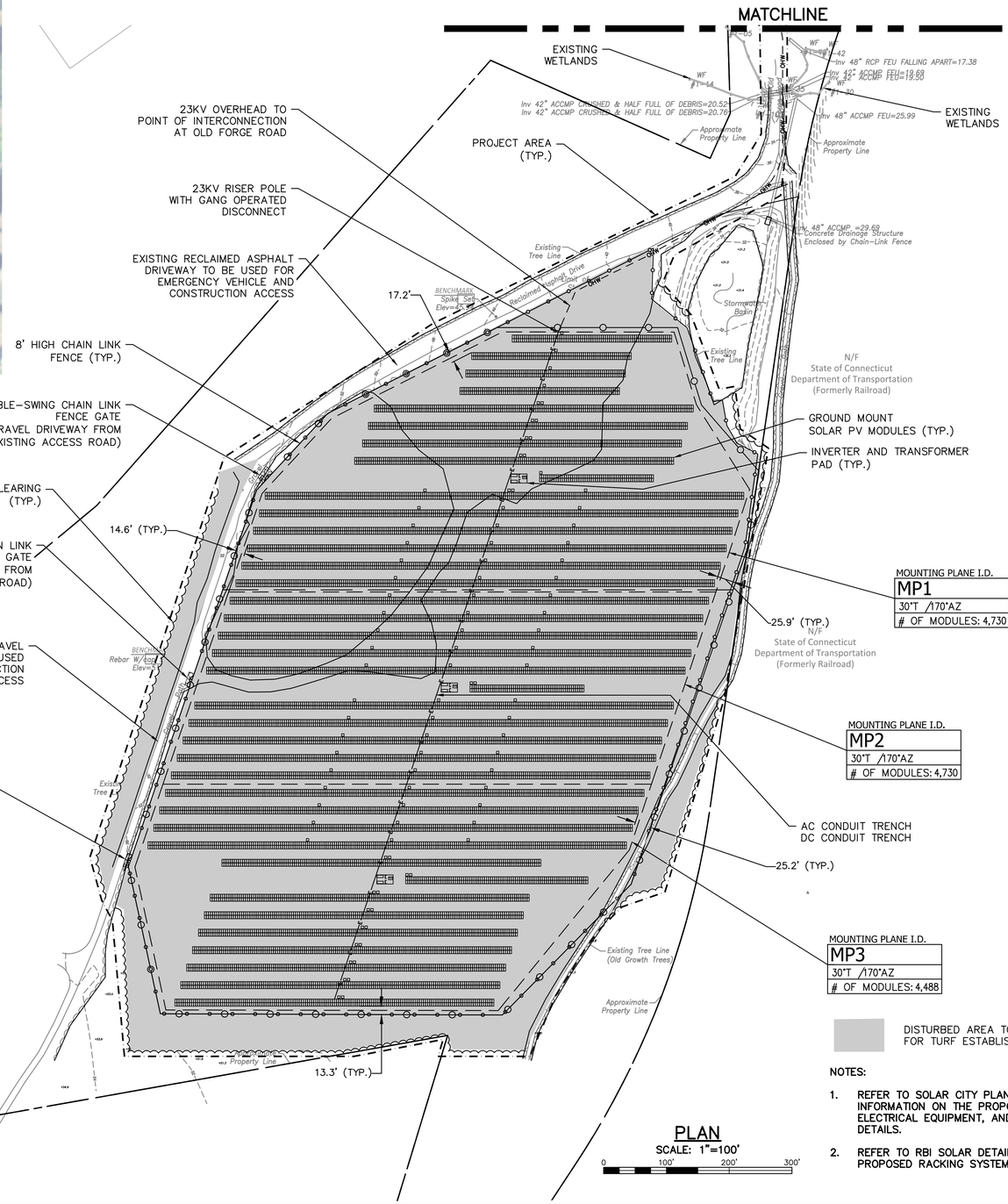
Drawing Title:

EXISTING CONDITIONS

Sheet Number:

C-1





PLAN
SCALE: 1"=100'
0 100' 200' 300'

N

NOTES:

1. REFER TO SOLAR CITY PLANS FOR SPECIFIC INFORMATION ON THE PROPOSED STRUCTURAL, ELECTRICAL EQUIPMENT, AND FENCING DETAILS.
2. REFER TO RBI SOLAR DETAIL SHEETS OF THE PROPOSED RACKING SYSTEM.

Project:

ROCKY HILL SOLAR PROJECT

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Revisions:

Rev	Date	Description

Seal:

PERMIT PLANS

JOB NO. 2150769

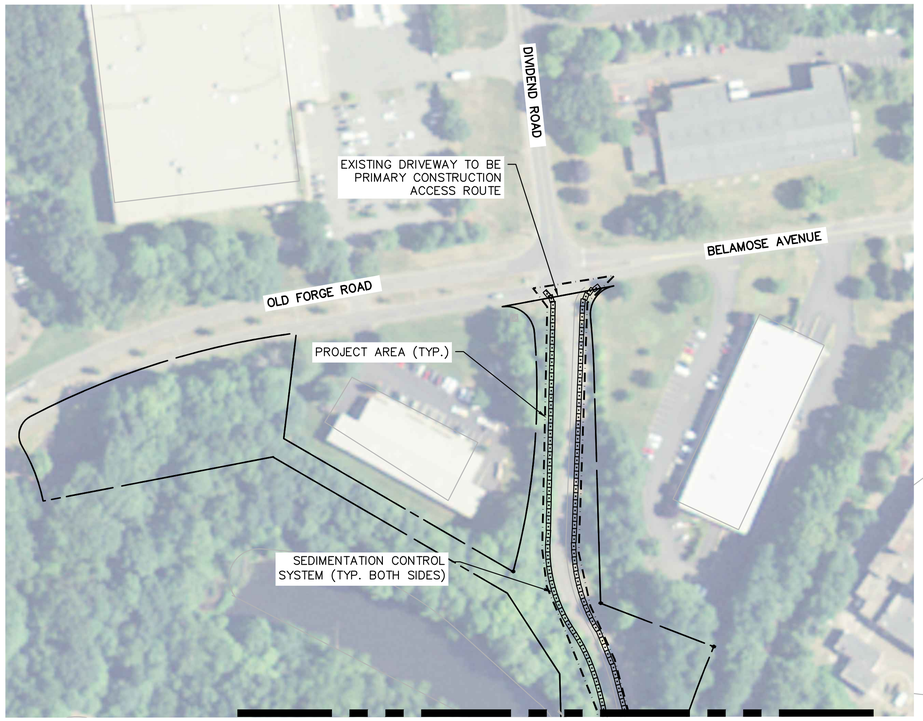
Date:	03.16.2016
Scale:	1"=100'
Drawn By:	LEC
Reviewed By:	LEC
Checked By:	JSP
Approved By:	RGT

Drawing Title:

LAYOUT PLAN

Sheet Number:

C-2



Project:

ROCKY HILL SOLAR PROJECT

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Revisions:

Rev	Date	Description

Seal:

STATE OF CONNECTICUT ROBERT G. TEDFORD No. 16798 LICENSED PROFESSIONAL ENGINEER

PERMIT PLANS

JOB NO. 2150769

Date:	03.16.2016
Scale:	1"=100'
Drawn By:	LEC
Reviewed By:	LEC
Checked By:	JSP
Approved By:	RGT

Drawing Title:

SEDIMENTATION AND EROSION CONTROL PLAN

Sheet Number:

C-3

CONCRETE NOTES

1. CONCRETE STRENGTH -PROVIDE CONCRETE WITH THE FOLLOWING STRENGTHS AT THE LOCATIONS NOTED. MIX DESIGN, SLUMP, AIR ENTRAINMENT, AGGREGATE SIZE, ETC. SHALL BE IN CONFORMANCE WITH THE ACI CODE, LATEST EDITION.

LOCATION: ANY

STRENGTH AT 28 DAYS: 4500 PSI

A. ALL CONCRETE AGGREGATE IS HARD ROCK UON
B. DESIGN MIX SHALL CONTAIN 5-1/2 SACKS OF CEMENT, MIN.
C. TYPE I/II CEMENT TO MEET ASTM C150.
D. MAX AGGREGATE SIZE SHALL BE 3/4"
E. MAX WATER/CEMENT RATIO SHALL BE 0.45
F. MAX SLUMP SHALL BE 4"
G. PROVIDE 6% AIR ENTRAINMENT, ADD MIXTURE IN SNOW STATES ONLY (MIN 6% +/- 1.5%)

2. REINFORCING STEEL -ASTM A615 WITH THE FOLLOWING STRENGTHS:

SIZE	STRENGTH:
#4 AND SMALLER	GRADE 60 (fy = 60000 PSI)
#5 AND LARGER	GRADE 60 (fy = 60000 PSI)

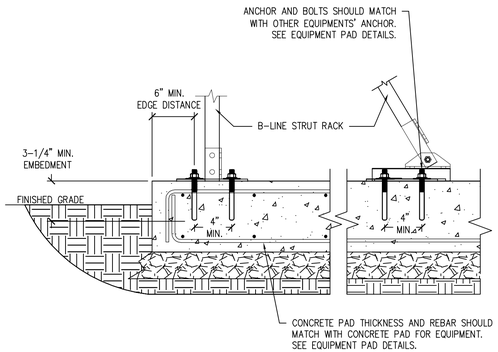
3. FABRICATE AND PLACE REINFORCEMENT IN ACCORDANCE WITH ACI PUBLICATION SP-66, ACI DETAILING MANUAL - LATEST EDITION.

4. PLACE CONCRETE IN COMPLIANCE WITH ACI 304. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED.

5. CONCRETE COVER FOR REINFORCEMENT FOR NON-PRESTRESSED, CAST IN PLACE CONCRETE SHALL BE AS FOLLOWS:

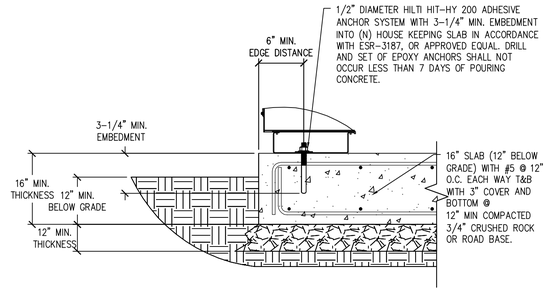
CONDITION	COVER
CAST AGAINST EARTH	3"
EXPOSED TO WEATHER	
#5 AND SMALLER	1-1/2"
#6 AND LARGER	2"
SLAB-ON-GRADE	2"

6. EMBEDS -ALL ITEMS TO BE CAST INTO CONCRETE SUCH AS REINFORCING DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE SECURELY AND ACCURATELY POSITIONED INTO THE FORMS PRIOR TO PLACING THE CONCRETE.

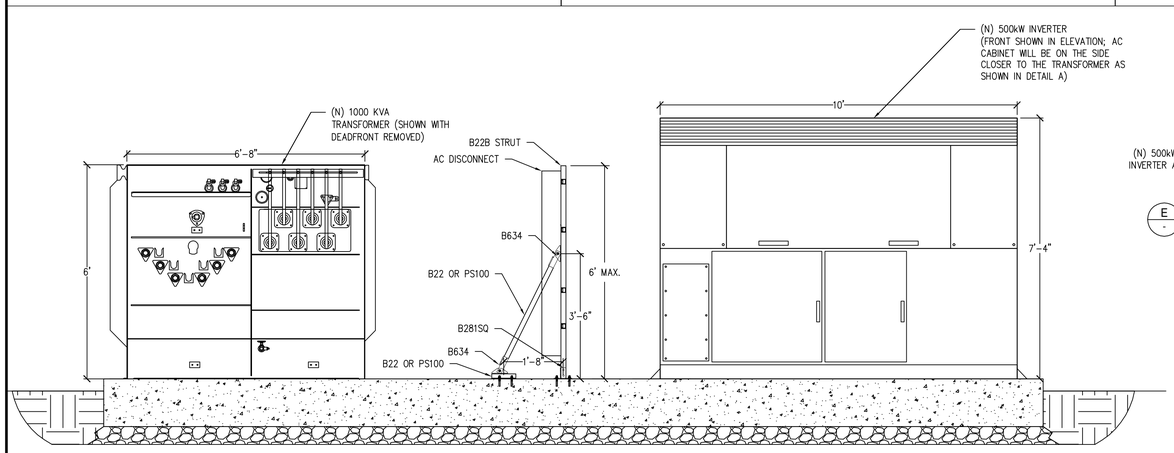


F CONCRETE PAD ANCHOR DETAIL STRUT
S10J002 CONCRETE PAD ANCHOR DETAIL STRUT RE
NTS

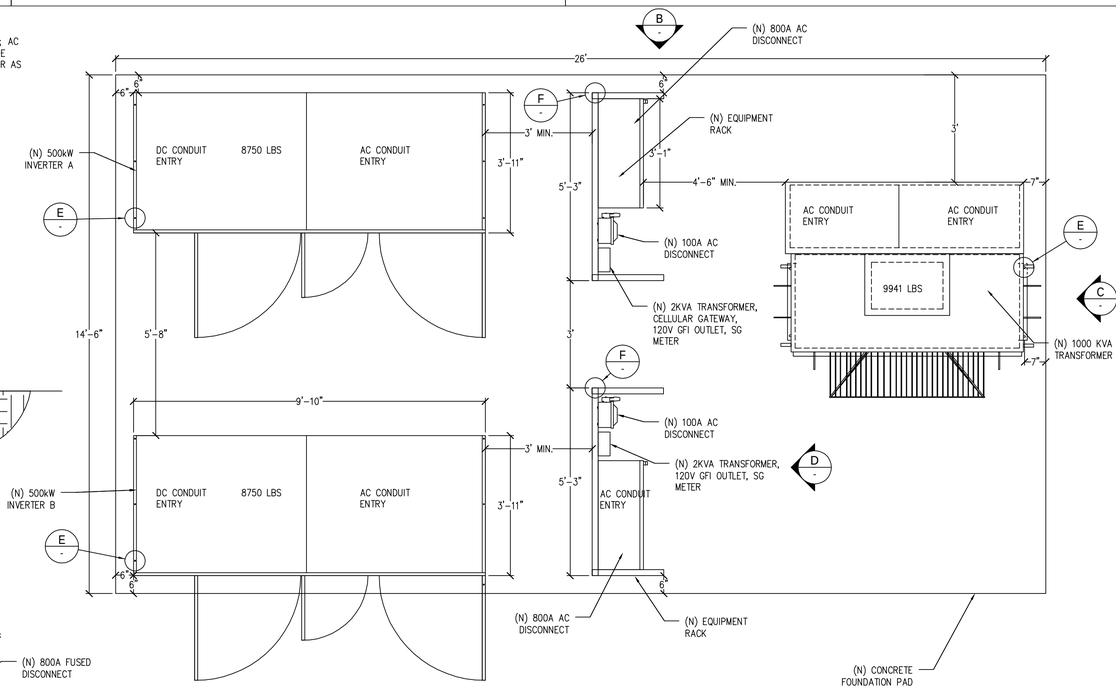
NOTE: TOP UPPER BARS AND BOTTOM LOWER BARS TO RUN IN THE LONG DIRECTION OF THE SLAB



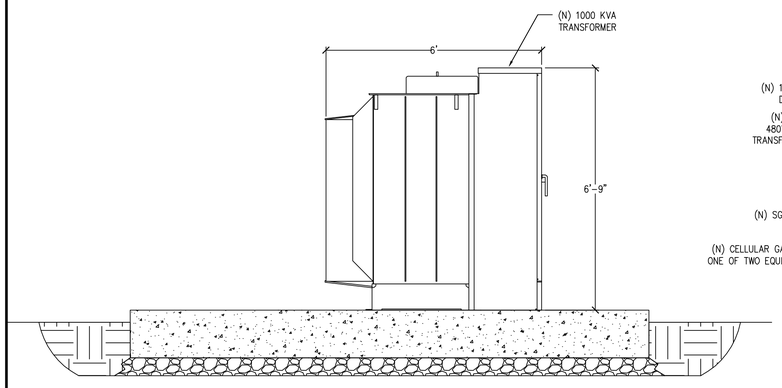
E ANCHOR DETAIL
S10J001 CONCRETE PAD ANCHOR DETAIL RN
NTS



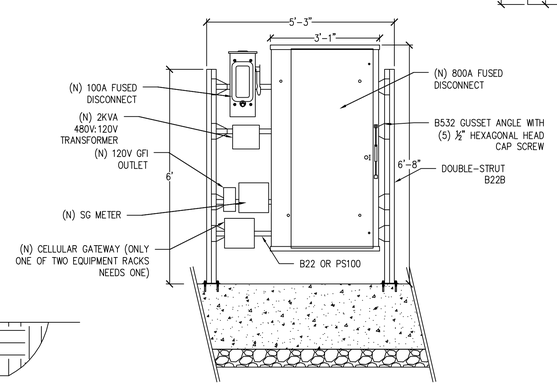
B FOUNDATION PAD FRONT
1/2"=1'-0"



A FOUNDATION PAD PLAN
1/2"=1'-0"



C FOUNDATION PAD SIDE
1/2"=1'-0"



D EQUIPMENT RACK FRONT
1/2"=1'-0"

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T:(650) 638-1028 | F:(650) 638-1029
(888)-SOL-CITY (765-2489) | www.solarcity.com

DESCRIPTION: Town of Rocky Hill – Block 1
1300.75 kW DC
CUSTOMER: Town of Rocky Hill – Block 1
R013 Old Forge Road
Rocky Hill, CT 06067
860-258-7717

STATE OF CONNECTICUT ANDREW D. WHITE No. 26355 LICENSED PROFESSIONAL ENGINEER

Digitally signed by Andrew White
Date: 2016.01.28 13:49:58 -05'00'

STAMPED & SIGNED FOR STRUCTURAL ONLY

REVISIONS

REV	BY	DATE	COMMENTS

JOB DETAILS

AHJ: Hartford
MODULES: (4730) TRINA SOLAR # TSM-275PA14 1300.75 kW DC
MOUNTING SYSTEM: REI
INVERTER: (2) Advanced Energy # AE 500TX (480)
DESIGN: JOSHUA TROGLIN
CHECKED BY: NP
MARKET: COMMERCIAL
PROJECT MANAGER: KEVIN ANGERS
DATE: 9/3/15
PAYMENT TYPE: PPA
SHEET NAME: STRUCTURAL DETAILS & INVERTER PADS
JOB NUMBER: JB-0602328-00
SHEET: PV 5
REV: 0

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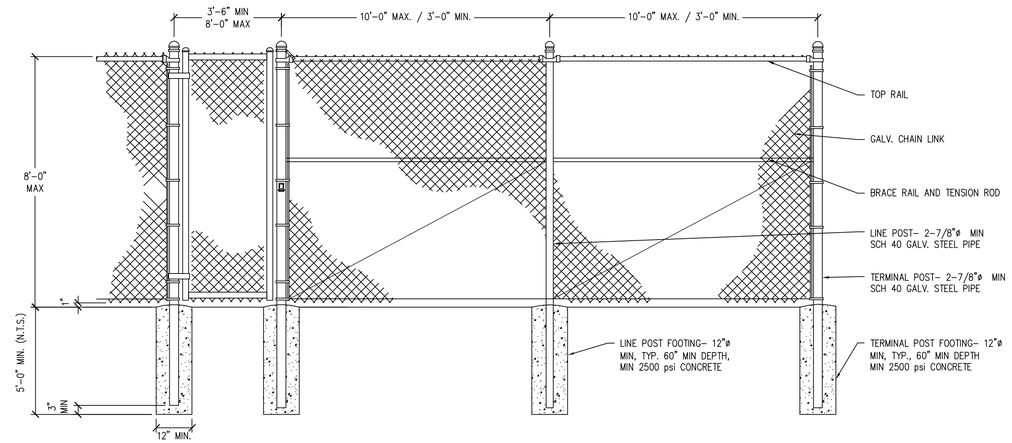
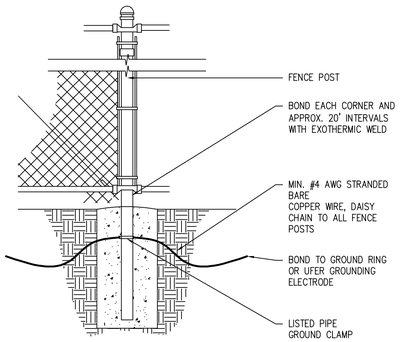


E FENCE DETAIL

525301 FENCE DETAIL RA

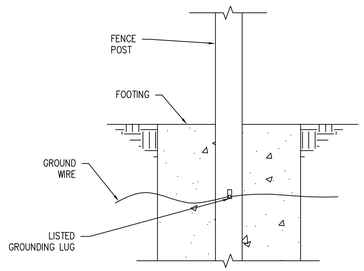
NTS



B FENCE POST GROUNDING DETAIL (NON-EXPOSED)

770.004 FENCE POST GROUNDING NON-EXPOSED RA

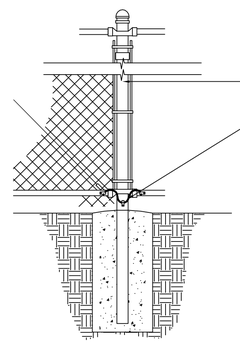
NTS



D FENCE POST GROUNDING DETAIL

770.001 FENCE POST GROUNDING RA

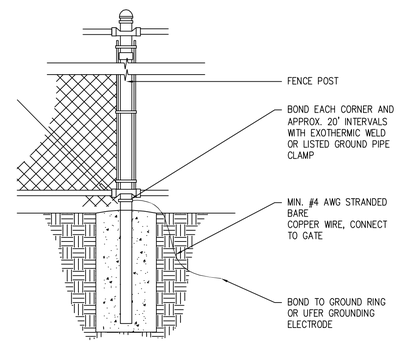
NTS



C FENCE BRACING GROUNDING CONNECTION

770.003 FENCE BRACING GROUNDING CONNECTION RA

NTS



A FENCE POST GROUNDING DETAIL (EXPOSED)

770.005 FENCE POST GROUNDING EXPOSED RA

NTS

SolarCity

3055 Clearview Way, San Mateo, CA 94402
T:(650) 638-1028 | F:(650) 638-1029
(888)-SOL-CITY (765-2489) | www.solarcity.com

DESCRIPTION: Town of Rocky Hill - Block 1
1300.75 kW DC

OWNER: Town of Rocky Hill - Block 1
R013 Old Forge Road
Rocky Hill, CT 06067
860-258-7717

REVISIONS

REV	BY	DATE	COMMENTS

JOB DETAILS

AHJ: Hartford

MODULES: (4730) TRINA SOLAR # TSM-275PA14
1300.75 kW DC

MOUNTING SYSTEM: RBI

INVERTER: (2) Advanced Energy # AE 500TX (480)

DESIGN: JOSHUA TROGLIN

CHECKED BY: NP

MARKET: COMMERCIAL

PROJECT MANAGER: KEVIN ANGERS

DATE: 9/3/15

PAYMENT TYPE: PPA

SHEET NAME: PV EQUIPMENT PLAN & ELEVATION

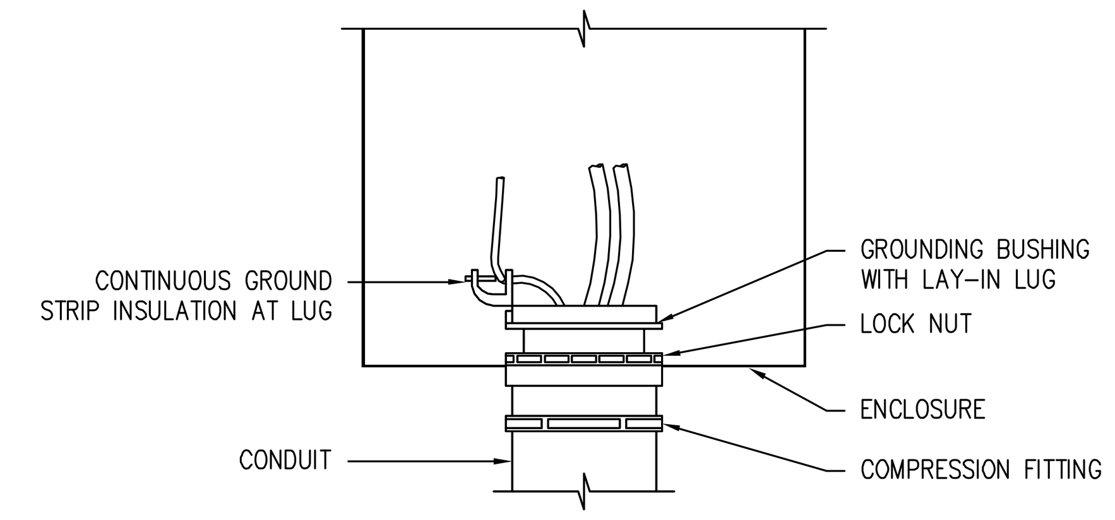
JOB NUMBER: JB-0602328-00

SHEET: PV 6

REV: 0

C:\Common\Installs\Customers\JB-0602328-00 Town Of Rocky Hill - Block 1\Drawings\AutoCAD\jb_0602328_00___acad_b_01.dwg

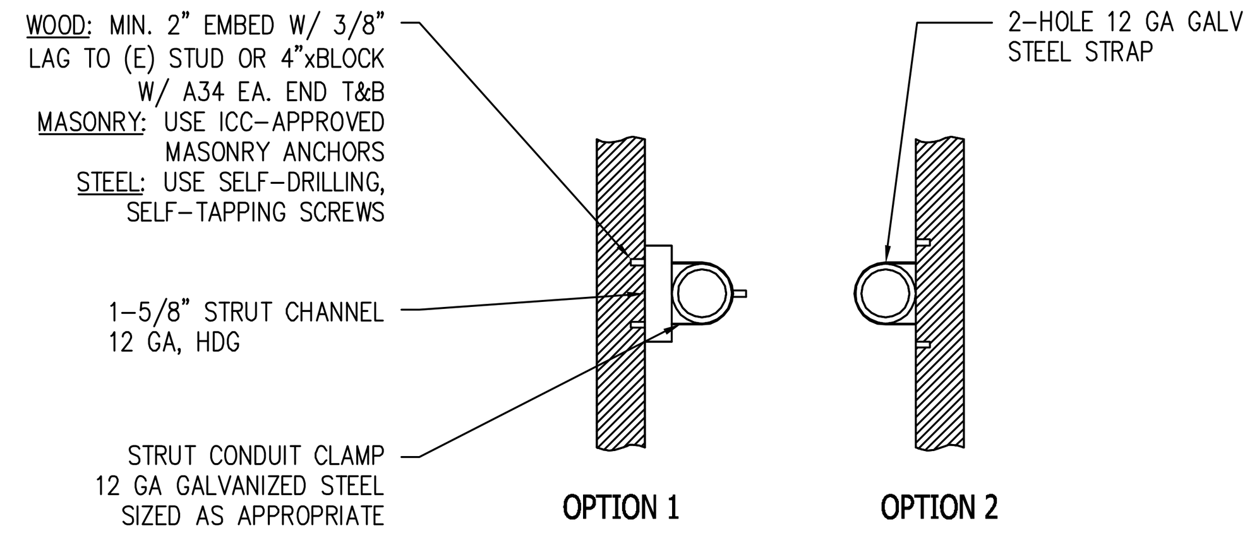
- K -	- J -	- I -	- H -	- G -	- F -	- E -	- D -	- C -	- B -	- A -



D CONDUIT GROUNDING DETAIL

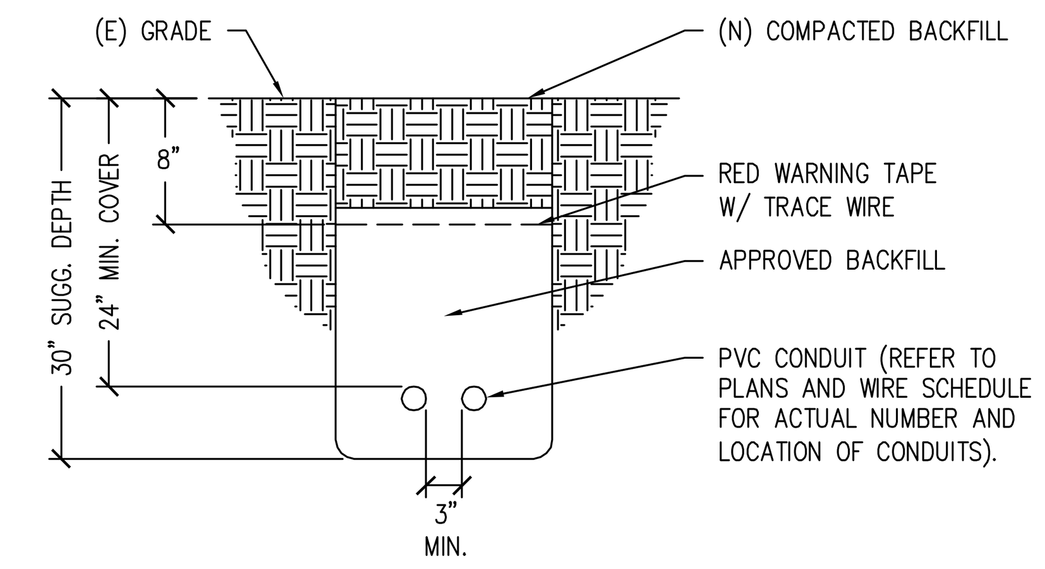
NTS

NOTE: ALL HOLES FOR CONDUIT SHALL BE PROVIDED WITH CONDUIT FITTINGS HAVING AN ENVIRONMENTAL RATING APPROVED TO MAINTAIN NEMA 3R ENCLOSURE RATING (UL508A, TABLE 19.2). IN GENERAL COMPONENTS MARKED "WEATHERPROOF" OR "RAINPROOF" SHALL BE INSTALLED ONLY BELOW THE LOWEST UNINSULATED LIVE PARTS WITHIN THE ENCLOSURE. CONDUIT OPENINGS ABOVE THE LOWEST UNINSULATED LIVE PARTS SHALL BE PROVIDED WITH CONDUIT FITTINGS MARKED "WET LOCATION" OR "RAINTIGHT".



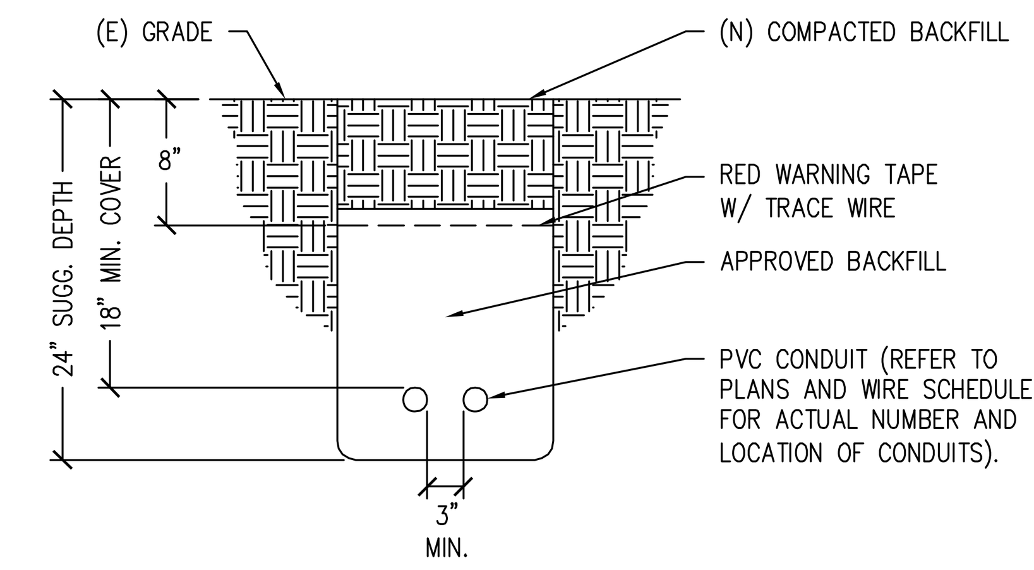
C CONDUIT SUPPORT - WALL

NTS



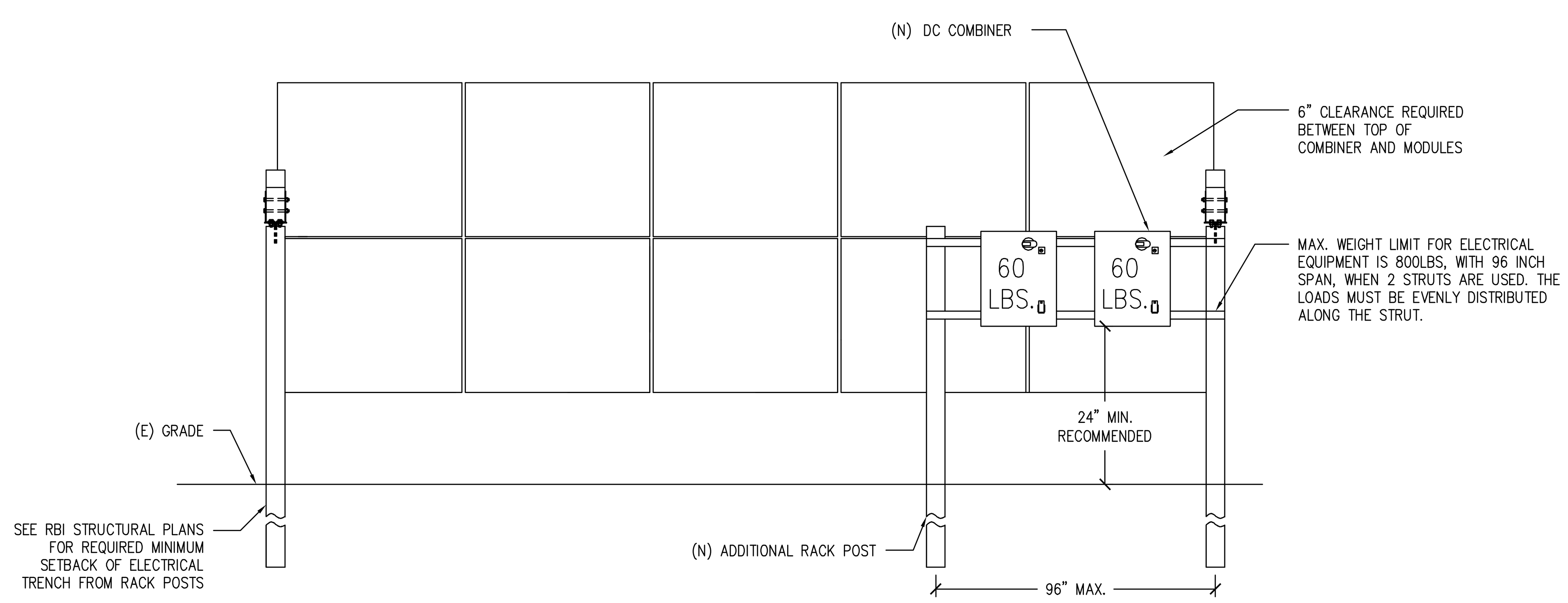
B TRENCH THROUGH SOIL TRAFFIC DETAIL

NTS



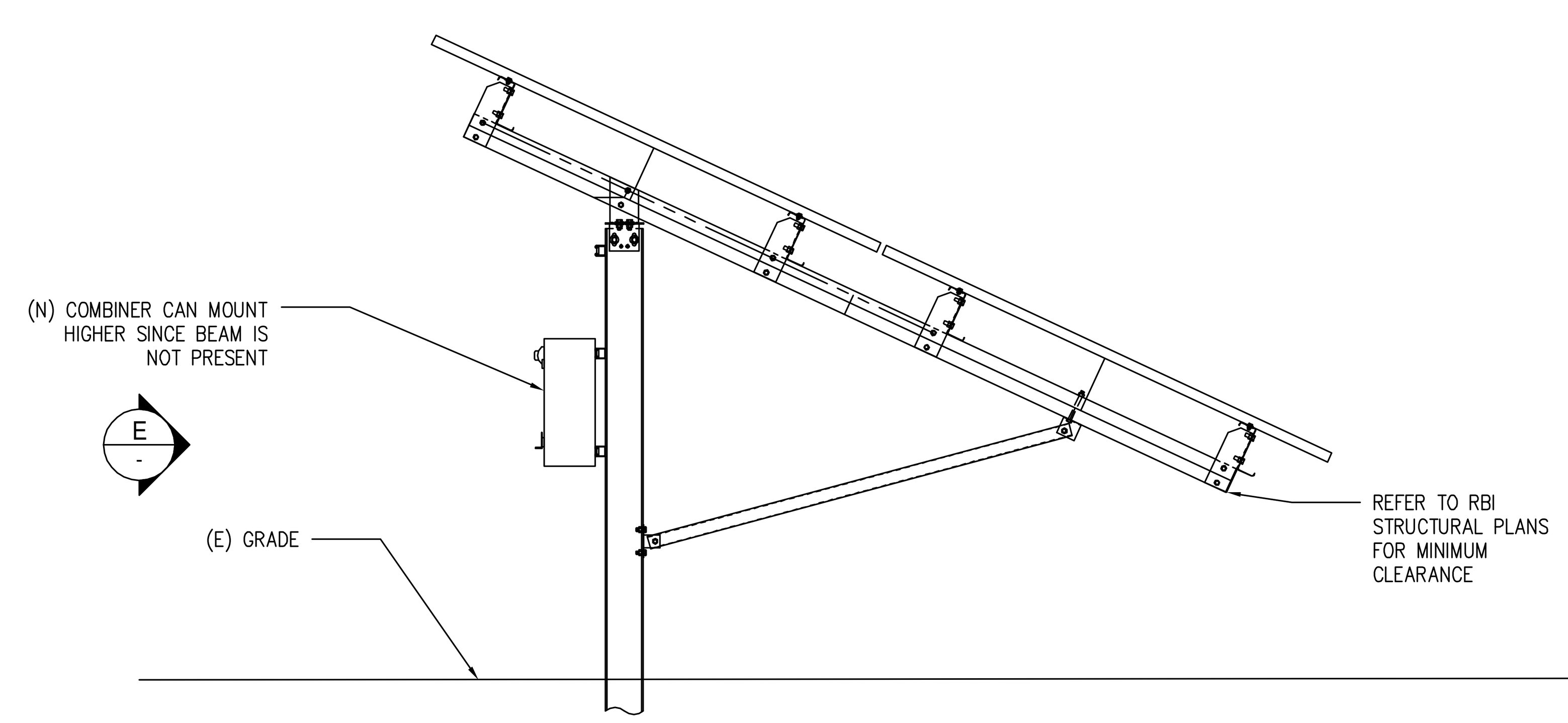
A TRENCH THROUGH SOIL NON-TRAFFIC DETAIL

NTS



E RBI EQUIPMENT RACK (REAR ELEVATION)

1/2"=1'-0"



F RBI EQUIPMENT RACK (SIDE ELEVATION)

1/2"=1'-0"

C:\Common\Installs\Customers\JB-0602328-00 Town Of Rocky Hill - Block 1\Drawings\AutoCAD\jb_0602328_00___acad_b_01.dwg

SolarCity

3055 Clearview Way, San Mateo, CA 94402
T:(650) 638-1028 | F:(650) 638-1029
(888)-SOL-CITY (765-2489) | www.solarcity.com

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R013 Old Forge Road
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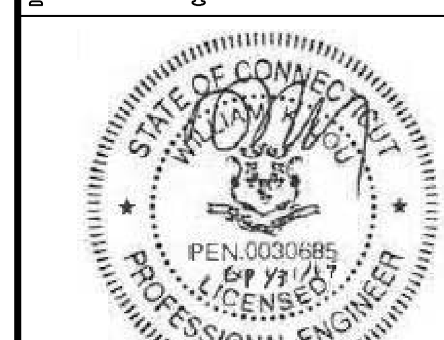
860-258-7717



REVISIONS

REV	BY	DATE	COMMENTS

JOB DETAILS

AHJ: Hartford

MODULES: (4730) TRINA SOLAR # TSM-275PA14
1300.75 kW DC

MOUNTING SYSTEM: RBI

INVERTER: (2) Advanced Energy # AE 500TX (480)

DESIGN: JOSHUA TROGLIN

CHECKED BY: NP

MARKET: COMMERCIAL

PROJECT MANAGER: KEVIN ANGERS

DATE: 9/3/15

PAYMENT TYPE: PPA

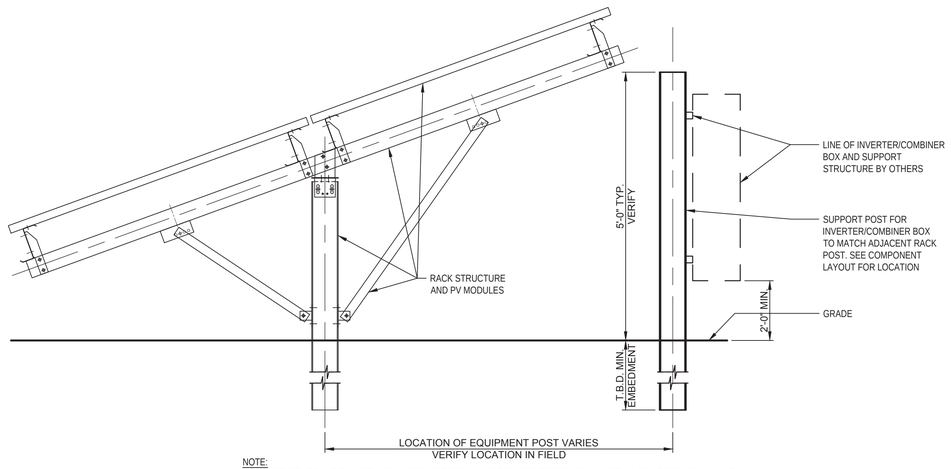
SHEET NAME: EQUIPMENT DETAILS

JOB NUMBER: JB-0602328-00

SHEET: PV 7

REV: 0

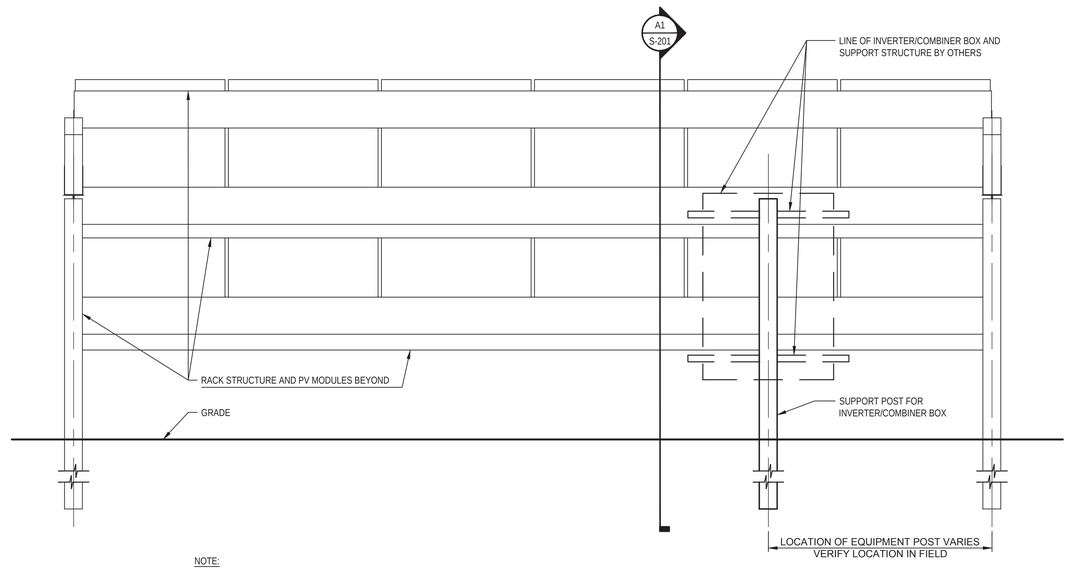
- K -	- J -	- I -	- H -	- G -	- F -	- E -	- D -	- C -	- B -	- A -



NOTE:
RACK STRUCTURE AND PV MODULES SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL COMPONENTS MAY VARY.

A1 SCALE: 3/4" = 1'-0"

STAND-ALONE ADDITIONAL POST SECTION



NOTE:
RACK STRUCTURE AND PV MODULES SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL COMPONENTS MAY VARY.

A6 SCALE: 3/4" = 1'-0"

STAND-ALONE ADDITIONAL POST ELEVATION

RBI SOLAR
Total Solar Service: Design * Fabrication
Installation * Parts * Repair Service
5513 VINE STREET
CINCINNATI, OH 45217
513.242.2051
FAX: 513.242.0816

PROFESSIONAL SEAL

ENGINEER'S SEAL APPLIES TO DESIGN OF STRUCTURAL COMPONENTS ONLY

STATE OF CONNECTICUT · MOHAMED A. ALY · No. 23061 · REGISTERED · PROFESSIONAL ENGINEER

GROUND MOUNT FOR SolarCity

RELEASE RECORD

MARK	DATE	DESCRIPTION
02	02/05/16	PERMIT SET
01	02/02/16	PRELIMINARY SET

PROJECT INFORMATION

TITLE & ADDRESS:
TOWN OF ROCKY HILL
R013 OLD FORGE ROAD
ROCKY HILL, CT 06067

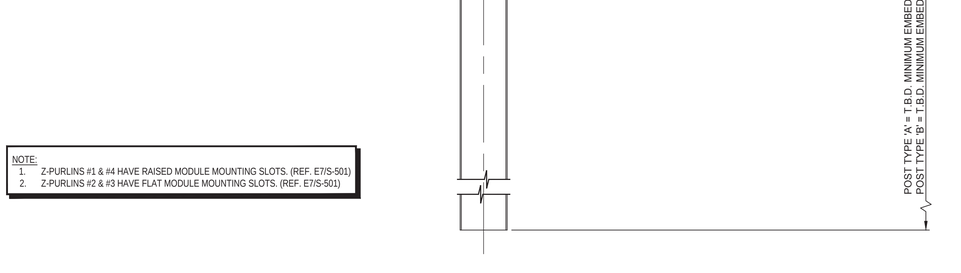
RBI SOLAR PROJECT No.: 163041

DRAWN BY: EW
REVIEWED BY: BDS/JAB

SHEET TITLE:
ADDITIONAL POST SECTIONS & ELEVATIONS

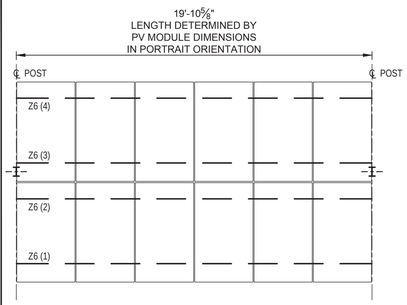
SHEET No.:
S-201

USER: NDUNCANSON PLOTTED: 2/5/2016 - 8:55 AM S:\RBI Solar\Design\2016_Jobs\163041-SolarCity-Town of Rocky Hill-Rocky Hill CT\Drawings\163041 Rocky Hill REV 2.dwg LAYOUT: S-201

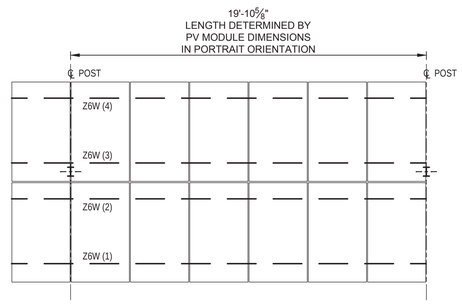


NOTE:
1. Z-PURLINS #1 & #4 HAVE RAISED MODULE MOUNTING SLOTS. (REF. E7/S-501)
2. Z-PURLINS #2 & #3 HAVE FLAT MODULE MOUNTING SLOTS. (REF. E7/S-501)

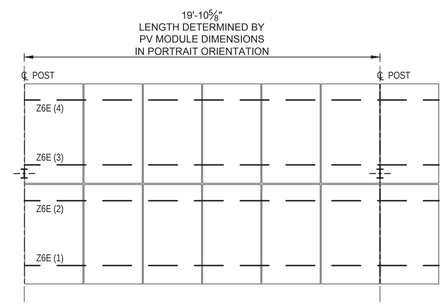
A1 SCALE: 1" = 1'-0" — **RACK SECTION**



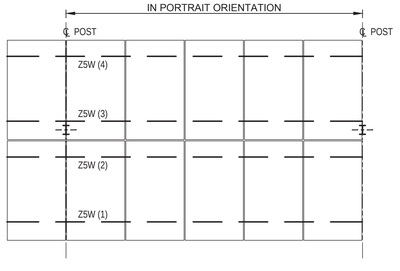
G6 SCALE: 1/4" = 1'-0" — **6P2 & 6P2T BAY PLAN VIEW**



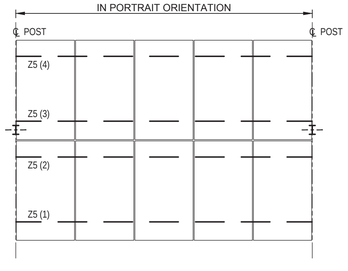
G8 SCALE: 1/4" = 1'-0" — **6WP2 & 6WP2T BAY PLAN VIEW**



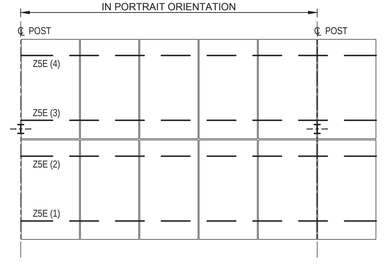
E8 SCALE: 1/4" = 1'-0" — **6EP2 & 6EP2T BAY PLAN VIEW**



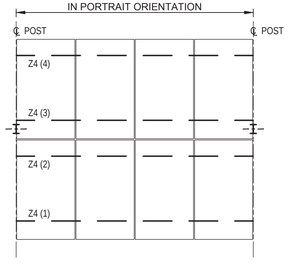
C8 SCALE: 1/4" = 1'-0" — **5WP2 & 5WP2T BAY PLAN VIEW**



C10 SCALE: 1/4" = 1'-0" — **5P2 & 5P2T BAY PLAN VIEW**



A8 SCALE: 1/4" = 1'-0" — **5EP2 & 5EP2T BAY PLAN VIEW**



A10 SCALE: 1/4" = 1'-0" — **4P2 & 4P2T BAY PLAN VIEW**

RBI SOLAR
Total Solar Service: Design * Fabrication
Installation * Parts * Repair Service
5513 VINE STREET
CINCINNATI, OH 45217
513.242.2051
FAX: 513.242.0816

PROFESSIONAL SEAL

ENGINEER'S SEAL APPLIES TO DESIGN OF STRUCTURAL COMPONENTS ONLY

STATE OF CONNECTICUT · MOHAMED A. ALI · No. 23061 · REGISTERED PROFESSIONAL ENGINEER

GROUND MOUNT FOR SolarCity

RELEASE RECORD

MARK	DATE	DESCRIPTION
02	02/05/16	PERMIT SET
01	02/02/16	PRELIMINARY SET

PROJECT INFORMATION

TITLE & ADDRESS:
TOWN OF ROCKY HILL
R013 OLD FORGE ROAD
ROCKY HILL, CT 06067

RBI SOLAR PROJECT No.: 163041

DRAWN BY: EW | REVIEWED BY: BDS/JAB

SHEET TITLE: RACK SECTION & BAY PLAN VIEWS

SHEET No.: **S-301**

USER: NDUNCANSON PLOTTED: 2/5/2016 - 8:55 AM S:\RBI Solar\Design\2016 Jobs\163041-SolarCity-Town of Rocky Hill-Rocky Hill CT\Drawings\163041 Rocky Hill REV 2.dwg LAYOUT: S-301

Appendix A

General Permit Registration

Connecticut Department of
Energy & Environmental Protection
Bureau of Materials Management & Compliance Assurance
Water Permitting & Enforcement Division

General Permit Registration Form for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, effective 10/1/13 (non-electronic form)

Prior to completing this form, you **must** read the instructions for the subject general permit available at **DEEP-WPED-INST-015**.
This form must be filled out electronically before being printed.
You must submit the registration fee along with this form.

The status of your registration can be checked on the DEEP's ezFile Portal. Please note that DEEP will no longer mail certificates of registration.

CPPU USE ONLY

App #:_____

Doc #:_____

Check #:_____

Program: Stormwater

Part I: Registration Type

Select the appropriate boxes identifying the registration type and registration deadline.

Registration Type			Registration Timeline	
☒	**New Registration** (Refer to Section 2 of the permit for definitions of Locally Exempt and Locally Approvable Projects)	☐ Locally Approvable Projects ***Size of soil disturbance*:**	**New registration - Sixty (60) days prior to the initiation of the construction activity for:** Sites with a total soil disturbance area of 5 or more acres	
		☒ Locally Exempt Projects ***Size of soil disturbance*:24 acres**	☐	**New registration - Sixty (60) days prior to the initiation of the construction activity for:** Sites with a total disturbance area of one (1) to twenty (20) acres except those with discharges to impaired waters or tidal wetlands
			☒	**New registration - Ninety (90) days prior to the initiation of the construction activity for:** (i) Sites with a total soil disturbance area greater than twenty (20) acres, or (ii) Sites discharging to a tidal wetland (that is not fresh-tidal and is located within 500 feet), or (iii) Sites discharging to an impaired water listed in the "Impaired Waters Table for Construction Stormwater Discharges"

Part II: Fee Information

1. New Registrations
   a. Locally approvable projects (registration only):
      ☐ $625 [#1855]
   b. Locally exempt projects (registration and Plan):
      ☐ $3,000 total soil disturbance area ≥ one (1) and < twenty (20) acres. [#1856]
      ☒ $4,000 total soil disturbance ≥ twenty (20) acres and < fifty (50) acres. [#1857]
      ☐ $5,000 total soil disturbance ≥ fifty (50) acres. [#1858]

The fees for municipalities shall be half of those indicated in subsections 1.a., 1.b., and 2 above pursuant to section 22a-6(b) of the Connecticut General Statutes. State and Federal agencies shall pay the full fees specified in this subsection. The registration will not be processed without the fee. The fee shall be non-refundable and shall be paid by certified check or money order payable to the Department of Energy and Environmental Protection.

Part III: Registrant Information

- If a registrant is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of the State. If applicable, the registrant's name shall be stated **exactly** as it is registered with the Secretary of the State. This information can be accessed at **CONCORD.**
- If a registrant 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.).

1. Registrant /Client Name: Town of Rocky Hill, CT

   Business Entity ⬇

   Secretary of the State business ID #:

   Mailing Address: 761 Old Main Street

   City/Town: Rocky Hill | State: CT | Zip Code: 06067

   Business Phone: 860-258-7717 | ext.:

   Example:(xxx) xxx-xxxx

   Contact Person: Guy Scaife | Title: Town Manager

   E-Mail: **gscaife@rockyhillct.gov**

   Additional Phone Number (if applicable): | ext.

2. List billing contact, if different than the registrant:

   Name:

   Mailing Address:

   City/Town: | State: | Zip Code:

   Business Phone: | ext.:

   Contact Person: | Title:

Part III: Registrant Information (continued)

3. List primary contact for departmental correspondence and inquiries, if different than the registrant:

Name: Weston & Sampson

Mailing Address: 273 Dividend Road

City/Town: Rocky Hill | State: CT | Zip Code: 06067

Business Phone: 860-513-1473 | ext.: 3002

Site Phone: | Emergency Phone:

Contact Person: John Figurelli | Title: Team Leader

Association (e.g. developer, general or site contractor, etc.): Design consultant

4. List owner of the property on which the activity will take place, if different from registrant:

Name:

Mailing Address:

City/Town: | State: | Zip Code:

Business Phone: | ext.:

Contact Person:

5. List developer, if different from registrant or primary contact:

Name:

Mailing Address:

City/Town: | State: | Zip Code:

Business Phone: | ext.:

Contact Person: | Title:

6. List general contractor, if different from registrant or primary contact:

Name:

Mailing Address:

City/Town: | State: | Zip Code:

Business Phone: | ext.:

Site Phone: | Off Hours Phone:

Contact Person: | Title:

7. List any engineer(s) or other consultant(s) employed or retained to assist in preparing the registration and/or Stormwater Pollution Control Plan. ☐ Please select if additional sheets are necessary, and label and attach them to this sheet.

Name: Weston & Sampson

Mailing Address: 273 Dividend Road

City/Town: Rocky Hill | State: CT | Zip Code: 06067

Business Phone: 860-513-1473 | ext.: 3021

Contact Person: Raju Vasamsetti | Title: Project Manager

Service Provided: **Permit Registration and SWPCP preparation** | Email:vasamsettir@wseinc.com

8. List Reviewing Qualified Professional (for locally approvable projects only). This information must match the information provided in Part IX of this registration.

Name: | Contact Person:

Mailing Address: | Email:

City/Town: | State: | Zip Code:

Business Phone: | ext.:

Part IV: Site Information

1. Site Name: Rocky Hill Solar Photovoltaic Project
   Street Address or Description of Location: 13 Old Forge Road
   (if linear, project location should be the project begining point)
   City/Town: Rocky Hill State: CT Zip Code: 06067
   (use only one zip code)
   Longitude: -7_2.6_3_2_5_0 Latitude: 4_1.6_4_4_1_6

   Brief Description of construction activity: Installation of raised solar panel system

   Project Start Date (must be on or after the authorization date of this registration) : August / 2016
   Anticipated Completion Date: November / 2016 *month/ yr)*
   (month/ yr)
   Normal working hours: **7 am** to **5 pm**

2. MINING: Is the activity on the site in question part of mining operations (i.e. sand and gravel)? ☐ Yes ☒ No

   If yes, mining is not authorized by this general permit. You must submit the Registration Form for the General Permit for the Discharge of Stormwater Associated with Industrial Activity.

3. COMBINED OR SANITARY SEWER: Does all of the stormwater from the proposed activity discharge to a combined or sanitary sewer (i.e. a sewage treatment plant)? ☐ Yes ☒ No

   If yes, this activity is not regulated by this permit. Contact the Water Permitting & Enforcement Division at 860-424-3018.

4. INDIAN LANDS: Is or will the facility be located on federally recognized Indian lands ☐ Yes ☒ No

5. COASTAL BOUNDARY: Is the activity which is the subject of this registration located within the coastal boundary as delineated on DEEP approved coastal boundary maps ☐ Yes ☒ No

   The coastal boundaries fall within the following towns: Branford, Bridgeport, Chester, Clinton, Darien, Deep River, East Haven, East Lyme, Essex, Fairfield, Greenwich, Groton (City and Town), Old Lyme, Guilford, Hamden, Ledyard, Lyme, Madison, Milford, Montville, New London, New Haven, North Haven, Norwalk, Norwich, Old Saybrook, Orange, Preston, Shelton, Stamford, Stonington (Borough and Town), Stratford, Waterford, West Haven, Westbrook and Westport.

   If “yes”, and this registration is for a new authorization or a modification of an existing authorization where the physical footprint of the subject activity is modified, you must provide documentation the DEEP Office of Long Island Sound Programs or the local governing authority has issued a coastal site plan approval or determined the project is exempt from coastal site plan review. Provide this documentation with your registration as Attachment B. See guidance in Appendix D of the general permit. Information on the coastal boundary is available at the local town hall or at www.cteco.uconn.edu/map_catalog.asp. Additional DEEP Maps and Publications are available by contacting DEEP staff at 860-424-3555.

Part IV: Site Information (continued)

6. ENDANGERED OR THREATENED SPECIES:

In order to be eligible to register for this General Permit, each registrant must perform a self-assessment, obtain a limited one-year determination, or obtain a safe-harbor determination regarding threatened and endangered species. This may include the need to develop and implement a mitigation plan. While each alternative has different limitations, the alternatives are not mutually exclusive; a registrant may register for this General Permit using more than one alternative. See Appendix A of the General Permit. Each registrant must complete this section AND Attachment C to this Registration form and a registrant who does not or cannot do so is not eligible to register under this General Permit.

Each registrant must perform a review of the Department's Natural Diversity Database maps to determine if the site of the construction activity is located within or in proximity (within ¼ mile) to a shaded area.

a. Verify that I have completed Attachment C to this Registration Form. ☒ Yes

b. Provide the date the NDDB maps were reviewed: September 2015 Date of map should be **one** year or less than the submittal date of this application. Print a copy of the NDDB map you viewed since it must be submitted with this registration as part of Attacment C.

c. For a registrant using a limited one-year determination or safe harbor determination to register for this General Permit, provide the Department's Wildlife Divison NDDB identification number for any such determination: _____ (The number is on the determination issued by the Department's Wildlife Divison).

For more information on threatened and endangered species requirements, refer to Appendix A and Section 3(b)(2) of this General Permit, visit the DEEP website at www.ct.gov/deep/nddbrequest or call the NDDB at 860-424-3011.

7. WILD AND SCENIC RIVERS: Is the proposed project within the watershed of a designated Wild and Scenic River? (See Appendix H for guidance) ☐ Yes ☒ No

8. AQUIFER PROTECTION AREAS: Is the site located within a mapped aquifer protection area www.ct.gov/deep/aquiferprotection as defined in section 22a-354h of the CT General Statutes? (For additional guidance, please refer to Appendix C of the General Permit) ☐ Yes ☒ No

9. CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL: Is the activity in accordance with CT Guidelines for Erosion and Sediment Control and local erosion & sediment control ordinances, where applicable? ☒ Yes ☐ No

10. HISTORIC AND/OR ARCHAEOLOGICAL RESOURCES:
Verify that the site of the proposed activity been reviewed (using the process outlined in Appendix G of this permit) for historic and/or archaeological resources: ☒ Yes

a. The review indicates the proposed site does not have the potential for historic/ archaeological resources, OR ☒ Yes ☐ No

b. The review indicated historic and/ or archaeological resource potential exists and the proposed activity is being or has been reviewed by the Offices of Culture and Tourism, OR ☐ Yes ☒ No

c. The proposed activity has been reviewed and authorized under an Army Corps of Engineers Section 404 wetland permit. ☐ Yes ☒ No

11. CONSERVATION OR PRESERVATION RESTRICTION:
Is the property subject to a conservation or preservation restriction? ☐ Yes ☒ No

If Yes, proof of written notice of this registration to the holder of such restriction or a letter from the holder of such restriction verifying that this registration is in compliance with the terms of the restriction, must be submitted as Attachment D.

Part V: Stormwater Discharge Information

Table 1

Outfall #	a) Type	b) Pipe Material	c) Pipe Size	d) Note: To find lat/long, go to: CT ECO. A decimal format is required here. Directions on how to use CT ECO to find lat./long. and conversions can be found in Part V, Section d of the DEEP-WPED-INST-015 .		e) What method was used to obtain your latitude/longitude information?
				Longitude	Latitude	
1	pipe	concrete	48"	-7 2.6 3 1 3 4	4 1.6 4 5 6 7	CT ECO
	Select One:	Select One:	Select One:	- .	.	Select One:
	Select One:	Select One:	Select One:	- .	.	Select One:
	Select One:	Select One:	Select One:	- .	.	Select One:
	Select One:	Select One:	Select One:	- .	.	Select One:

Table 2

Outfall #	a) For temporary and permanent outfalls, provide a start date. For temporary discharges, also provide a date the discharge will cease.	b) For the drainage area associated with each outfall: Effective Impervious Area Before Construction	c) For the drainage area associated with each outfall: Effective Impervious Area After Construction	d) To what system or receiving water does your stormwater runoff discharge? either "storm sewer or wetlands" or "waterbody" (If you select "storm sewer or wetland" proceed to Part VI of the form. If you select "waterbody" proceed to next question)	e) For each outfall, does it discharge to any of the following towns: *Branford, Kent, Manchester, Meriden, North Branford, Norwalk, or Wilton?* (If no, proceed to Part VI of the form. If yes, proceed to next question.)	f) For each outfall, does it discharge to a "freshwater" or "salt water" ? (If you select "freshwater" proceed to Table 3. If you selected "salt water", proceed to Part VI of the form.)
1	08/01-11/01 mm/dd-mm/dd	4,264,524 sq feet	4,264,524 sq feet	waterbody	☐ Yes ☒ No	freshwater
	- mm/dd-mm/dd	sq feet	sq feet	Select one:	☐ Yes ☐ No	Select one:
	- mm/dd-mm/dd	sq feet	sq feet	Select one:	☐ Yes ☐ No	Select one:
	- mm/dd-mm/dd	sq feet	sq feet	Select one:	☐ Yes ☐ No	Select one:
	- mm/dd-mm/dd	sq feet	sq feet	Select one:	☐ Yes ☐ No	Select one:
		144,141 total sq feet	**142,157 total sq feet**			

Part V: Stormwater Discharge Information (continued)

Table 3 Provide the following information about the receiving water(s)/wetland(s) that receive stormwater runoff from your site:			
Outfall #	a) What is your 305b ID # (water body ID #)? (Section 3.b, of the DEEP-WPED-INST-015, explains how to find this information)	b) Is your receiving water identified as a impaired water in the "Impaired Waters Table for Construction Stormwater Discharges"? If yes, proceed to next question. If no, proceed to Part VI: Pollution Control Plan.	c) Has any Total Maximum Daily Load (TMDL) been approved for the impaired water?
1	4000-31	☐ Y ☒ N	☐ Y ☒ N
		☐ Y ☐ N	☐ Y ☐ N
		☐ Y ☐ N	☐ Y ☐ N
		☐ Y ☐ N	☐ Y ☐ N
		☐ Y ☐ N	☐ Y ☐ N

Part V: Stormwater Discharge Information (continued)

Impaired waters: If you answered "yes" to Table 3, question b.,**verify** that the project's Pollution Control Plan (Plan) addresses the control measures below in Question 1 or 2, as appropriate.

1. If the impaired water does not have a TMDL, confirm compliance by selecting 1.a. or 1.b. below:

a. No more than 3 acres is disturbed at any time; ☐ Yes

OR

b. Stormwater runoff from a 2 yr, 24 rain event is **retained.** ☐ Yes

2. If the impaired water has a TMDL, confirm compliance by selecting 2.a. and 2.b. below and either question 2.c.1. or 2.c.2. below:

a. The Plan documents there is sufficient remaining Waste Load Allocations (WLA)in the TMDL for the proposed discharge, ☐ Yes

AND

b. Control measures shall be implemented to assure the WLA will not be exceeded, ☐ Yes

AND

c. 1. Stormwater discharges will be monitored for the indicator pollutant identified in theTMDL, ☐ Yes

OR

2. The Plan documents specific requirements for stormwater discharges specified in the TMDL. ☐ Yes

Part VI: Pollution Control Plan (select one of the following three categories)

☒ I am registering a Locally Exempt project and submitting the required electronic Plan (in Adobe™ PDF or similar publically available format) pursuant to Section 3(*c*)(2)(E) of this permit. (If you do not have the capability to submit the Plan electronically please call 860-418-5982).

☒ Plan is attached to this registration form

☐ Plan is available at the following Internet Address (URL):

☐ I am registering a Locally Approvable project and have chosen not to submit the Plan with this registration pursuant to Section 3(*c*)(1) of this permit.

☐ I am registering a Locally Approvable project and have chosen to make my Plan electronically available pursuant to Section 4(*c*)(2)(N) of this permit.

☐ Plan is attached to this registration form

☐ Plan is available at the following Internet Address (URL):

Part VII: Registrant Certification

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

For New Registrants:

" I hereby certify that I am making this certification in connection with a registration under such general permit,

[INSERT NAME OF REGISTRANT BELOW]

submitted to the commissioner by TOWN OF ROCKY HILL, CT for

[INSERT ADDRESS OF PROJECT OR ACTIVITY BELOW]

an activity located at 13 Old Forge Road, Rocky Hill, CT and that all terms and conditions of the general permit are being met for all discharges which have been initiated and such activity is eligible for authorization under such permit. I further certify that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I certify that the registration filed pursuant to this general permit is on complete and accurate forms as prescribed by the commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(*b*) (8)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify that I have made an affirmative determination in accordance with Section 3(*b*)(8)(B) of this general permit. I understand that the registration filed in connection with such general permit is submitted in accordance with and shall comply with the requirements of Section 22a-430b of Connecticut General Statutes. I also understand that knowingly making any false statement made in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under Section 53a-157b of the Connecticut General Statutes and any other applicable law."

For Re-registrants:

" I hereby certify that I am making this certification in connection with a registration under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, submitted to the commissioner

[INSERT NAME OF REGISTRANT BELOW]

by for an activity located at

[INSERT ADDRESS OF PROJECT OR ACTIVITY BELOW]

and that all terms and conditions of the general permit are being met for all discharges which have been initiated and such activity is eligible for authorization under such permit. I further certify that all designs and plans for such activity meet the current terms and conditions of the general permit in accordance with Section 5(b)(5)(C) of such general permit and that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I certify that the registration filed pursuant to this general permit is on complete and accurate forms as prescribed by the commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(*b*)(8)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I also understand that knowingly making any false statement made in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under Section 53a-157b of the Connecticut General Statutes and any other applicable law."

Guy Scaife	5/3/2016
Signature of Registrant (Must be an original signature, not a copy or fax)	Date
Guy Scaife	Town Manager
Name of Registrant (print or type)	Title (if applicable)
	05-03-16
Signature of Preparer (if different than above) (Must be an original signature, not a copy or fax)	Date
Raju Vasamsetti	Project Manager
Name of Preparer (print or type)	Title (if applicable)

Part VIII: Professional Engineer (or Landscape Architect, where appropriate) Design Certification (for publically approvable and exempt projects)

The following certification must be signed by a Professional Engineer or Landscape Architect where appropriate.

"I hereby certify that I am a professional engineer licensed in the State of Connecticut. I am making this certification in connection with a registration under such general permit, submitted to the commissioner by

[INSERT NAME OF REGISTRANT BELOW]

TOWN OF ROCKY HILL, CT for an activity located at

[INSERT ADDRESS OF PROJECT OR ACTIVITY BELOW]

13 Old Forge Road, Rocky Hill, CT

I certify that I have thoroughly and completely reviewed the Stormwater Pollution Control Plan for the project or activity covered by this certification. I further certify, based on such review and on the standard of care for such projects, that the Stormwater Pollution Control Plan has been prepared in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, the Stormwater Quality Manual, as amended, and the conditions of the general permit, and that the controls required for such Plan are appropriate for the site. I further certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate, and complete to the best of my knowledge and belief. I also understand that knowingly making any false statement in this certification may subject me to sanction by the Department and/or be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

Signature of Design Professional (Must be an original signature, not a copy or fax)	Date: 05-06-2016
Raju Vasamsetti, P.E.	Project Manager
Name of Professional (print or type)	Title
273 Dividend Rd	Rocky Hill
Mailing Address	City/Town
CT 06067	860-513-1473 x 3021
State Zip Code	Business Phone
STATE OF CONNECTICUT * RAMAKRISHNARAJU S. VASAMSETTI * No 25720 LICENSED PROFESSIONAL ENGINEER	No. 25720
	License #
Affix P.E/L.A Stamp Here	

Part IX: Reviewing Qualified Professional Certification

The following certification must be signed by a) a Conservation District reviewer OR, b) a qualified soil erosion and sediment control and/or professional engineer

☐ **Review certification by Conservation District:**

1.) District: list of districts

Date of Affirmative Determination:

" I am making this certification in connection with a registration under General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, submitted to the commissioner

[INSERT NAME OF REGISTRANT BELOW]

by _____ for an activity located at

[INSERT ADDRESS OF PROJECT OR ACTIVITY BELOW]

_____.

I have personally examined and am familiar with the information that provides the basis for this certification, and I affirm, based on the review described in Section 3(*b*)(11)(C) of this general permit and on the standard of care for such projects, that the Stormwater Pollution Control Plan is adequate to assure that the activity authorized under this general permit will comply with the terms and conditions of such general permit and that all stormwater management systems: (i) have been designed to control pollution to the maximum extent achievable using measures that are technologically available and economically practicable and that conform to those in the Guidelines and the Stormwater Quality Manual; (ii) will function properly as designed; (iii) are adequate to ensure compliance with the terms and conditions of this general permit; and (iv) will protect the waters of the state from pollution."

_____

Signature of District Professional and Date (Must be an original signature, not a copy or fax)

_____

Name of District Professional and License Number (if applicable)

Or

☐ **Review certification by Qualified Professional**

Company: _____

Name: _____

License # : _____

Level of independency of professional:

Required for all projects disturbing over 1 acre:

1. I verify I am not an employee of the registrant. ☐ Yes
2. I verify I have no ownership interest of any kind in the project for which the registration is being submitted. ☐ Yes

Required for projects with 15 or more acres of site disturbance (in addition to questions 1&2):

3. I verify I did not engage in any activities associated with the preparation, planning, designing or engineering of the soil erosion and sediment control plan or stormwater management systems plan for this registrant. ☐ Yes
4. I verify I am not under the same employ as any person associated with the preparation, planning, designing or engineering of the soil erosion and sediment control plan or stormwater management systems plan for this registrant. ☐ Yes

Part IX: Reviewing Qualified Professional Certification (continued)

"I hereby certify that I am a qualified professional engineer or qualified soil erosion and sediment control professional, or both, as defined in the General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities and as further specified in Sections 3(*b*)(11)(A) and (B) of such general permit. I am making this certification in connection with a registration under such general permit,

[INSERT NAME OF REGISTRANT BELOW]

submitted to the commissioner by

[INSERT ADDRESS OF PROJECT OR ACTIVITY BELOW]

for an activity located at

I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(*b*)(11)(C) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I further certify that I have made the affirmative determination in accordance with Sections 3(*b*)(11)(D)(i) and (ii) of this general permit. I understand that this certification is part of a registration submitted in accordance with Section 22a-430b of Connecticut General Statutes and is subject to the requirements and responsibilities for a qualified professional in such statute. I also understand that knowingly making any false statement in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under Section 53a-157b of the Connecticut General Statutes and any other applicable law."

Signature of Reviewing Qualified Professional Date: 05-06-2016

(Must be an original signature, not a copy or fax)

Raju Vasamsetti, P.E.

Name of Reviewing Qualified Professional License No.: 25720

Affix P.E./L.A. Stamp Here

Part X: Supporting Documents

Select the applicable box below for each attachment being submitted with this registration form. When submitting any supporting documents, please label the documents as indicated below (e.g., Attachment A, etc.) and be sure to include the registrant's name as indicated on this certification form.

☒ **Attachment A:** Select here as verification that an 8 ½" X 11" copy of the relevant portion of a USGS Quadrangle Map with a scale of 1:24,000, showing the exact location of the facility has been submitted with this registration. Indicate the quadrangle name on the map, and be sure to include the registrant's name. (To obtain a copy of the relevant USGS Quadrangle Map, call your town hall or DEEP Maps and Publications Sales at 860-424-3555)

☐ **Attachment B:** Documentation related to *Coastal Consistency Review,* if applicable.

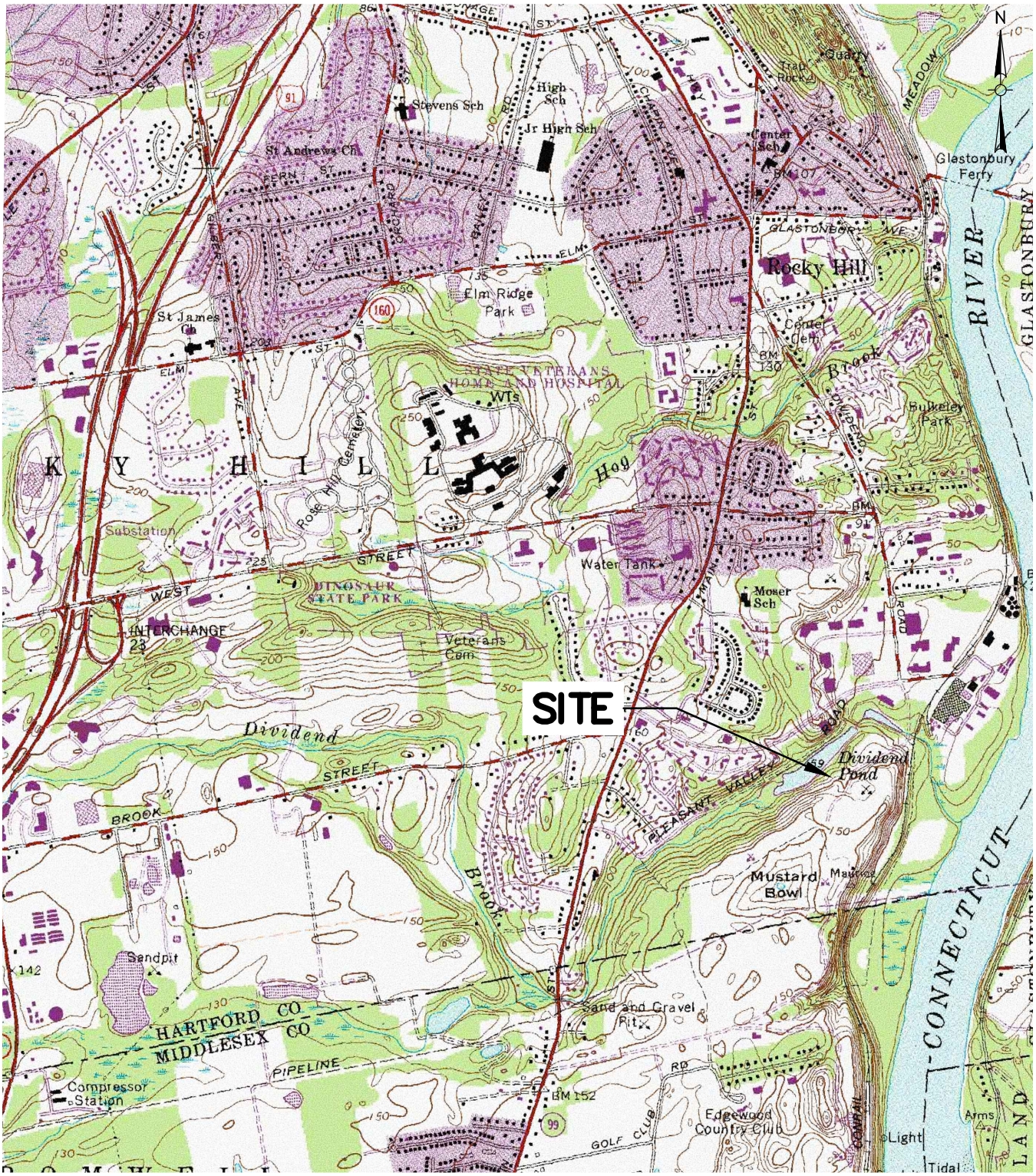
☒ **Attachment C:** Threatened and Endangered Species Form and any additional information (such as a copy of a NDDB map)

☐ **Attachment D:** Conservation or Preservation Restriction Information, if applicable.

☐ **Attachment E:** Where applicable, non-electronic Pollution Control Plan.

Note: Please submit the fee along with a completed, printed and signed Registration Form and all additional supporting documents to:

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



SITE LOCATION PLAN

U.S.G.S. QUADRANGLE MAP NO. 52
ROCKY HILL, CONNECTICUT

SCALE: 1:24000 (1"=2000')

0 2000' 4000'

ATTACHMENT C: THREATENED AND ENDANGERED SPECIES

Information about compliance with the requirements of Section 3(b)(2) of this general permit, regarding threatened and endangered species, is in Appendix A of the general permit. Choose one or more (if applicable) of the following in order to be eligible to register for this General Permit. A registrant who does not or cannot do so is not eligible to register under this General Permit.

☐ Self Assessment using the NDDB maps – Select this only if:

a. The site of the construction activity is not entirely, partially or within a ¼ mile of a shaded area depicted on the Department's Natural Diversity Database maps and this determination was made not more than six months before the date of submitting this registration;

AND

b. The entity registering for this General Permit has no reasonably available verifiable scientific, or other credible information that the construction activity could reasonably be expected to have an adverse impact upon a federal or state species listed as threatened or endangered.

Attach a copy of the NDDB map used to conduct the self assessment used to register for this general permit.

Note: Both a and b as used in this section, must be true in order for a Registrant to register for this General Permit using the self-assessment option. If neither is true, a Registrant cannot use the self-assessment option to comply with Section 3(b)(2) and Appendix A of the General Permit.

☒ Limited One-Year Determination – Select this only if:

a. The entity registering for this General Permit has obtained a limited one-year determination from the Department's Wildlife Division regarding threatened and endangered species: i) within a year of the date of submitting this registration; or ii) more than 1 year before submitting this registration, but such determination has been extended by the Department within one year of the date of submitting this registration;

AND

b. The Registrant has provided to the Department's Wildlife Division any reasonably available verifiable scientific, or other credible information that the construction activity could reasonably be expected to have an adverse impact upon a federal or state species listed as threatened or endangered.

Provide the date the limited one-year determination was issued by the Department's Wildlife Division _____;

or

Provide the date that the most recent extension to a limited one year determination was issued by the Department's Wildlife Division _____.

Note: Both a and b as used in this section, must be true in order for a Registrant to register for this General Permit using the Limited One-Year Determination option. If a Limited One-Year Determination or extension to any such determination was issued by the Department's Wildlife Division more than one year before the submission of this registration, a Registrant cannot use any such determination or extension to comply with Section 3(b)(2) and Appendix A of the General Permit.

ATTACHMENT C: THREATENED AND ENDANGERED SPECIES (continued)

☐ **Select here if the Limited One-Year Determination issued by the Department includes a Mitigation Plan.**

Provide the date the Mitigation Plan was approved: _____

Governmental Entity Approving the Plan: _____

As of the date this Registration is submitted,

Has the Mitigation Plan been fully implemented? ☐ Yes ☐ No

Date commenced: _____ Date completed: _____

Is the Mitigation Plan partially implemented? ☐ Yes ☐ No

If yes, what actions have been taken? _____

And which actions are yet to be implemented and what is the timeframe for completion of such actions: _____

Is the Mitigation Plan yet to be implemented? ☐ Yes ☐ No

If yes, specify the timeframe for implementation: _____ to _____

And summarize actions to be implemented: _____

☐ Safe Harbor Determination - Select this only if:

a. The entity registering for this General Permit has obtained a Safe Harbor Determination from the Department's Wildlife Division regarding threatened and endangered species: i) within 3 years of the date of submitting this registration; or ii) more than 3 years before submitting this registration, but within one-year of a one-year extension issued by the Department's Wildlife Division to a safe harbor determination;

AND

b. The entity registering for this General Permit has provided to the Department's Wildlife Division any reasonably available verifiable scientific, or other credible information that the construction activity could reasonably be expected to have an adverse impact upon a federal or state species listed as threatened or endangered.

Provide the date the Department's Wildlife Division issued a Safe Harbor Determination: _____

If applicable, provide the date that any one-year extension to a Safe Harbor Determination was issued by the Department's Wildlife Division: _____.

Note: Both a and b as used in this section, must be true in order for a Registrant to register for this General Permit using the Safe Harbor Determination option. If a Safe Harbor Determination was issued by the Department's Wildlife Division more than three years before the submission of this registration, and has not been extended, a Registrant cannot use any such safe harbor to comply with section 3(b)(2) and Appendix A of this General Permit. If a Safe Harbor Determination was granted and extended for one-year, more than four years before the submission of this registration, a Registrant cannot use any such Safe Harbor Determination to comply with Section 3(b)(2) and Appendix A of the general permit.

ATTACHMENT C: THREATENED AND ENDANGERED SPECIES (continued)

☐ **Select here if the safe harbor noted above includes a Mitigation Plan.**

Provide the date the Mitigation Plan was approved: _____

Governmental Entity Approving the Plan: _____

As of the date this Registration is submitted,

Has the Mitigation Plan been fully implemented? ☐ Yes ☐ No

Date commenced: _____ Date completed: _____

Is the Mitigation Plan partially implemented? ☐ Yes ☐ No

If yes, what actions have been taken? _____

And which actions are yet to be implemented and what is the timeframe for completion of such actions: _____

Is the Mitigation Plan yet to be implemented? ☐ Yes ☐ No

If yes, specify the timeframe for implementation: _____ to _____

And summarize actions to be implemented: _____

Natural Diversity Data Base Areas

ROCKY HILL, CT

September 2015

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.

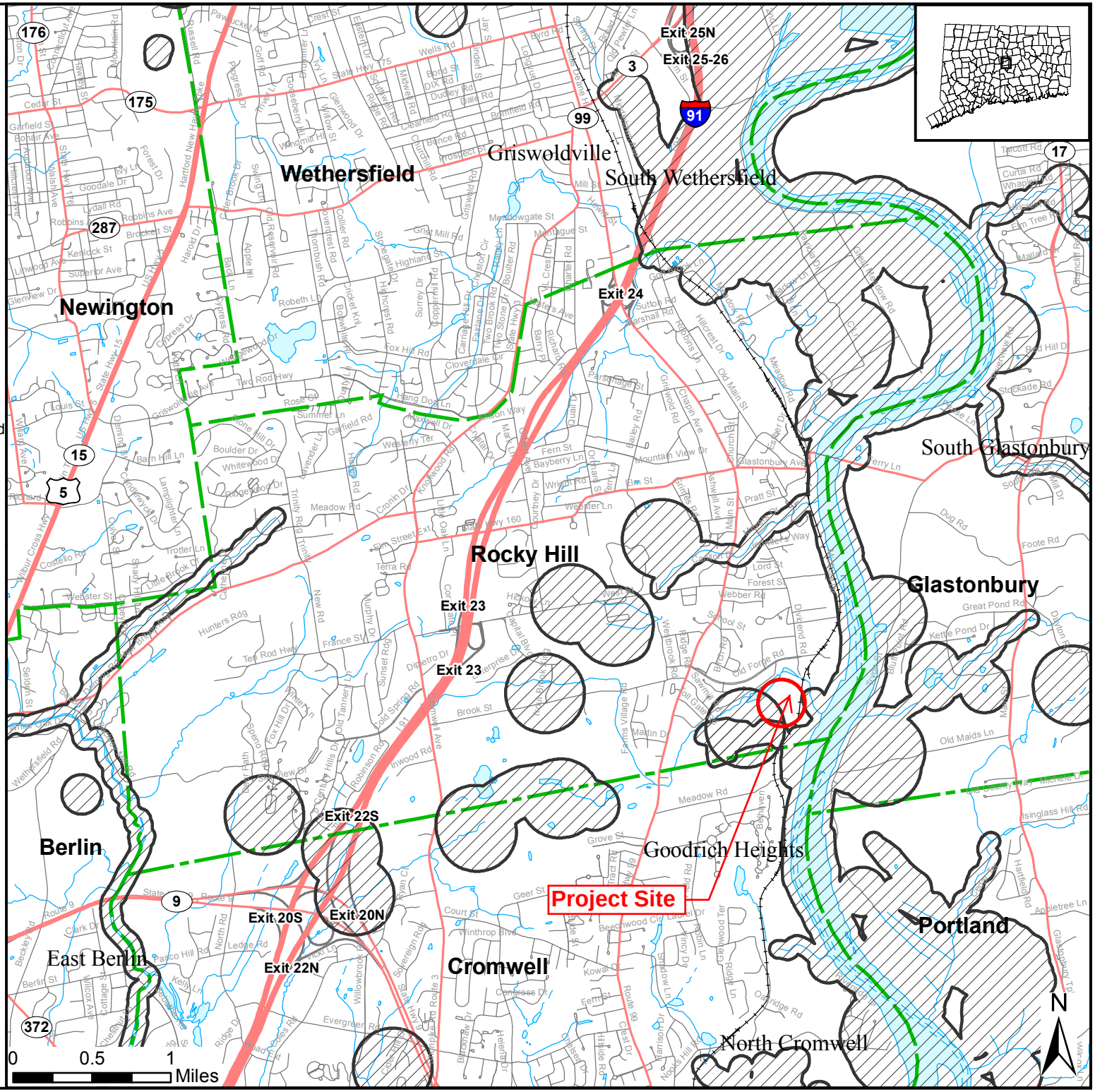
This map is intended for use as a preliminary screening tool for conducting a Natural Diversity Data Base Review Request. To use the map, locate the project boundaries and any additional affected areas. If the project is within a shaded area there may be a potential conflict with a listed species. For 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



Appendix B

Contractor Certification(s)

The General Permit requires that the Stormwater Pollution Control Plan clearly identify each contractor and subcontractor who will perform actions which may cause stormwater pollution. Further, each such contractor and subcontractor must sign a specific certification statement to signify their understanding of the plan requirements and their duty to comply with it.

At the time of the preparation of this plan, the project contractor for the work had not yet been selected. All contractors and subcontractors selected to perform remediation activities on-site will be listed in the following table. Each contractor or subcontractor identified in this table shall read, understand and comply with all terms and conditions of the General Storm Water Permit and the Site Storm Water Pollution Control Plan. Each firm shall signify this by completing and signing a copy of the contractor certification statement in Appendix B. Should this Storm Water Pollution Control Plan be amended, all contractors and subcontractor identified in the following table will be required to re-endorse copies of this certification. All signed copies of the contractor certification statement will be filed in Appendix B.

Contractors/Subcontractors Requiring Certification

Name	Service Provided	Telephone Number

Contractor Certification Statement

13 Old Forge Road – Rocky Hill Solar City photovoltaic project

"I certify under penalty of the law that I have read and understand the terms and conditions of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. I understand, that as a contractor or subcontractor at the site, I am authorized by this general permit and must comply with the terms and conditions of this general permit, including but not limited to the requirements of the Stormwater Pollution Control Plan prepared for the site."

_____

Signature

_____

Printed Name and Title

_____

Firm Name

_____

Address

_____

City, State, ZIP Code

_____

Telephone

_____

Certification Date

Appendix C

Rare & Endangered Species

NDDB Consultation

March 3, 2016 **APT Project No.: CT478110**

Connecticut Department of Energy & Environmental Protection
Wildlife Division
79 Elm Street
Hartford, CT 06106-5127
Attn: Dawn M. McKay (via Email: dawn.mckay@ct.gov)
Laura Saucier (via Email: laura.saucier@ct.gov)

Re: NDDB #201505939
Proposed SolarCity Facility
3.9 megawatt AC Solar Facility
13 Old Forge Road
Rocky Hill, CT

On behalf of SolarCity Corporation ("SolarCity"), All-Points Technology Corporation, P.C. ("APT") submitted a Natural Diversity Data Base ("NDDB") State Listed Species Review Request to the Connecticut Department of Energy & Environmental Protection ("CTDEEP") for a proposed installation of a 3.9 megawatt AC ("MWac") facility at property owned by the Town of Rocky Hill at 13 Old Forge Road, Rocky Hill, Connecticut ("Site"). A preliminary informal determination was received from CTDEEP indicating that a record of State-listed Special Concern species Big Sand Tiger Beetle (*Cicindela formosa generosa*) occurs in the vicinity of the project area. As a result, APT engaged Eric Davison, a wildlife biologist with Davison Environmental, to assess habitat within and surrounding the proposed solar facility project area to determine if it potentially provides optimal habitat for Big Sand Tiger Beetle. The results of this habitat assessment are provided below.

Big Sand Tiger Beetle Description

The Big Sand Tiger Beetle ("tiger beetle") is an inhabitant of blowouts, dry forest clearings, dunes and other upland, fine, sparsely vegetated (dry) sands (Knisley and Schultz 1997, Leonard and Bell 1999, Sikes 1999, Sikes et al. in prep.). The species is generally most active in the spring, and remains less active during the remainder of the year (Knisley and Schultz 1997, Leonard and Bell 1999, DLW unpublished data).

While published information varies, it is generally accepted that adults die in early fall while larvae become inactive and overwinter in their burrows. Larval burrows are found in sand substrates that are loose, deep, and well drained. C. formosa larvae dig a small pit at the mouth of the burrow that serves as a pitfall for prey. The larval tunnel runs horizontally from the pit then turns downward and extends deep into the substrate. Sand about the pit and tunnel entrance is cemented by the larvae, which helps prevent the pit from collapsing.

Project Area and Project Descriptions

The proposed solar project would be located at the municipally-owned Site, which consists of approximately 61.4 undeveloped acres, a portion of which is used by the Town of Rocky Hill Public Works Department ("Public Works") for materials storage including leaf and brush.

The Site is situated generally south of the intersection of Old Forge Road and Dividend Road, southeast of Dividend Pond, west of an active rail line and the Connecticut River, and north of the municipal border with Cromwell. Please refer to the Proposed Conditions Map provided in Attachment 1. The immediate Site vicinity is characterized as a mix of residential and commercial development to the north and west, and undeveloped land to the east and south.

The solar array will be developed in the northern portion of the Site, which is primarily a mix of cleared land and early old field habitat, consisting of early successional trees with a dense understory of scrub/shrub and herbaceous growth. To facilitate development of the facility, a total of approximately 25 acres require some level of development and disturbance ("Project Area").

The Project Area includes relatively level grades such that the development can be generally accomplished without significant grading to facilitate the installation of the solar arrays and associated equipment.

The Project Area consists of previously disturbed land. A total of ±18 acres of early successional trees and associated dense understory will be cleared to accommodate the Project. The facility would be comprised of approximately 9,460 – 275 watt and 4,488 – 290 watt Trina Solar TSM-PD14 modules, three (3) Advanced Energy AE 500TX 500 kW inverters, and three (3) transformers. The facility would use a post-driven RBI Solar Inc. tracking system. Electrical connections would extend primarily overhead out to Old Forge Road.

Attachment 1, Proposed Conditions Map, depicts the proposed Project Area layout. Project Site Plans are provided in Attachment 2. Representative photographs of the Project Area are provided in Attachment 3.

Tiger Beetle Habitat Assessment

Due to the timing of the Project initiation and resultant CTDEEP informal correspondence (September 2015), it was not possible to directly survey the Site for the physical presence of tiger beetles. Therefore, a habitat-based survey was conducted in mid- to late-October 2015 over two days by Mr. Davison using the known tiger beetle habitat requirements as summarized by Leonard and Bell (1999). Matthew Gustafson, a biologist with APT, assisted Mr. Davison on the first day. Assessments of the Site and immediately surrounding environs were conducted to identify areas that contained loose and shifting sparsely vegetated sandy soils, considered to provide optimal tiger beetle habitat. To aid this investigation, the CTDEEP Invertebrate Species Reporting Form for a 2013 Big Sand Tiger Beetle record proximate to the Project Area was provided by CTDEEP under condition of keeping the specific information confidential. The CTDEEP 2013 Big Sand Tiger Beetle record was collected from an area located more than 1,000 feet from the Project Area.

The Site is part of a larger contiguous habitat matrix that includes three separate parcels: (1) the Site; (2) the Dividend Pond town open space parcel to the west; and (3) a privately owned parcel to the south. These three parcels collectively were formerly a sand and gravel borrow pit. The habitat which developed after abandonment of the mining operations includes environments that are currently providing optimal habitat for tiger beetle. However, the actual habitats contained within the Project Area represent mostly unsuitable habitat for tiger beetle due to the establishment of late old field vegetative cover and stockpiles of asphalt millings and soil materials. Highly marginal habitat does exist on the fringe of the Project Area where sandy access roads are present (shoulders of road provide highly marginal habitat).

Attachment 1, Cover Type Map, illustrates the habitats present on the Site, including those within and adjacent to the Project Area. Areas mapped as suitable tiger beetle habitat proximate to the Project Area primarily consist of the existing sandy roadways. The lack of optimal tiger beetle habitat within the Project Area is a result of both natural vegetative succession and current Public Works activities. The majority of the Project Area is characterized by late old field habitat with limited open sand habitat (refer to Photos 3 and 4). Open areas within the Project Area are dominated by asphalt millings and material stockpiles by the Town of Rocky Hill Public Works Department. This area is actively used by Public Works and includes a stockpile area with access drives entering from the north and west. Most of the stockpile area and access drives have been graded, compacted and stabilized with asphalt millings (refer to Photo 2). These open areas encompass approximately two acres of the total Project Area and do not constitute suitable habitat for tiger beetle due to the unfavorable soil surface conditions. The remainder of the Project Area consists of late old field habitat which is beginning to transition to scrub-shrub habitat. The woody stem density is high throughout most of this portion of the Project Area, consisting predominately of mature autumn olive (*Elaeagnus umbellata*) shrubs. Where dense woody vegetation is absent, a dense cover of common mugwort (*Artemisia vulgaris*) blankets the ground. As a result, the Project Area contains no appreciable un-vegetated or sparsely vegetated loose sands suitable for tiger beetle. Therefore, the proposed development would not result in a likely adverse impact to this State-listed Special Concern Species.

Conversely, areas within the southwest corner of the Site and the adjoining parcel to the south do contain optimal tiger beetle habitat in the form of large expanses of loose, shifting un-vegetated sands. Succession in these areas has been suppressed due to a lack of topsoil and persistent disturbance mainly in the form of vehicular activity (i.e., ATVs, quads, etc.).

BIG SAND TIGER BEETLE PROTECTION PLAN

Due to the Project Area's proximity to optimal tiger beetle habitat (i.e., unvegetated sands), a comprehensive protection plan is proposed to avoid unintentional impact to this species during construction of the proposed facility. The Big Sand Tiger Beetle Protection Plan consists of various types of protection measures including protection of nearby "Early Old Field/Unvegetated Sands" habitat areas with installation of a restrictive barrier along the southern and western peripheries of the Project Areas, and implementation of contractor awareness training and environmental monitoring measures.

It is of the utmost importance that the Contractor complies with the Big Sand Tiger Beetle Protection Plan requirements for the implementation of protective measures and the education of its employees and subcontractors performing work within the Project Area. This protection program shall be implemented regardless of the time of year construction activities occur. All-Points Technology Corporation, P.C. ("APT") will serve as the Project Environmental Monitor for this project to ensure that the Big Sand Tiger Beetle Protection Plan is implemented properly. The Contractor shall contact Matthew Gustafson, Environmental Scientist at APT, at least five (5) business days prior to the pre-construction meeting. Mr. Gustafson can be reached by telephone at (860) 663-1697 ext. 202 or via email at mgustafson@allpointstech.com.

1. Early Old Field/Unvegetated Sands Protection Measures

a. The limits of the Project Area shall be isolated from the majority of the Early Old Field/Unvegetated Sands located to the south and west through installation of orange construction fencing (limits depicted on Proposed Conditions Map provided in Attachment 1). The Contractor shall install orange construction fencing around the identified portion of the Project Area to isolate construction activities from potential encroachment into Early Old Field/Unvegetated Sands habitats throughout the duration of the construction project. APT will inspect the orange fencing installation prior to any construction activities or equipment mobilization to the Project Area. This isolation fencing shall be inspected daily by the Contractor to ensure that it is maintained in good condition. The Contractor shall repair any damaged fencing within 24 hours. No work, stockpiling/staging of

materials/vehicles/equipment, transport of vehicles, or work of any kind shall occur west or south of the orange construction fencing isolation barrier limits.

2. Contractor Awareness Training

a. Prior to work on site and initial deployment/mobilization of equipment and materials, the Contractor shall attend an educational session at the pre-construction meeting with the Project Environmental Monitor. This orientation and educational session will consist of information on the Big Sand Tiger Beetle (*Cicindela Formosa generosa*) and the associated Early Old Field/Unvegetated Sands habitat areas and the need to follow protective measures as described herein.

b. The Contractor will be provided cell phone and email contacts for APT Environmental Monitoring staff to immediately report any encounters with Big Sand Tiger Beetle. Poster materials (example provided in Attachment 4) will be provided by APT to the Contractor for posting on the job site to maintain worker awareness, along with any visitors, to the sensitive environmental nature of the job site.

3. Monitoring and Reporting

a. Any observations of tiger beetles by the Contractor shall be immediately reported to APT.

b. APT will provide periodic inspections of the isolation fencing throughout the duration of construction activities.

c. Daily Compliance Monitoring Reports (brief narrative and applicable photos) will be prepared for any inspections performed by APT and submitted to SolarCity for compliance verification. Any observations of tiger beetles will be included in the reports.

d. Following completion of the construction project, APT will provide a Compliance Monitoring Summary Report to SolarCity documenting the monitoring and maintenance of the barrier fence and erosion control measures and any turtle observations. SolarCity will provide a copy of the Compliance Monitoring Summary Report to the Connecticut Siting Council for compliance verification.

e. Any observations of Big Sand Tiger Beetle will be reported to CTDEEP by APT, with photo-documentation (if possible) and with specific information on the location and disposition of the insect.

Conclusion

Early Old Field/Unvegetated Sands habitat areas proximate to the Project Area have been identified to potentially support populations of the Big Sand Tiger Beetle, a State Listed Special Concern species protected by the Connecticut Endangered Species Act. Therefore, SolarCity has committed to implementing protection measures to avoid potential impacts to this State-protected invertebrate species during construction activities.

Therefore, the proposed SolarCity development would not result in a likely adverse effect to State-listed Special Concern Species Big Sand Tiger Beetle, provided the referenced protection plans are properly implemented during construction. Based on the information contained in this document, SolarCity respectfully requests a determination from the CTDEEP that it concurs with these findings that the proposed project would not result in a likely adverse effect the Big Sand Tiger Beetle (*Cicindela formosa generosa*).

Sincerely,

Dean Gustafson
Senior Environmental Scientist

Enclosures

cc: Nichole Seidell, SolarCity Corporation
Eric Davison, Davison Environmental LLC

Attachment 1
Project Mapping

- Proposed Conditions Map
- Proposed Cover Type Map

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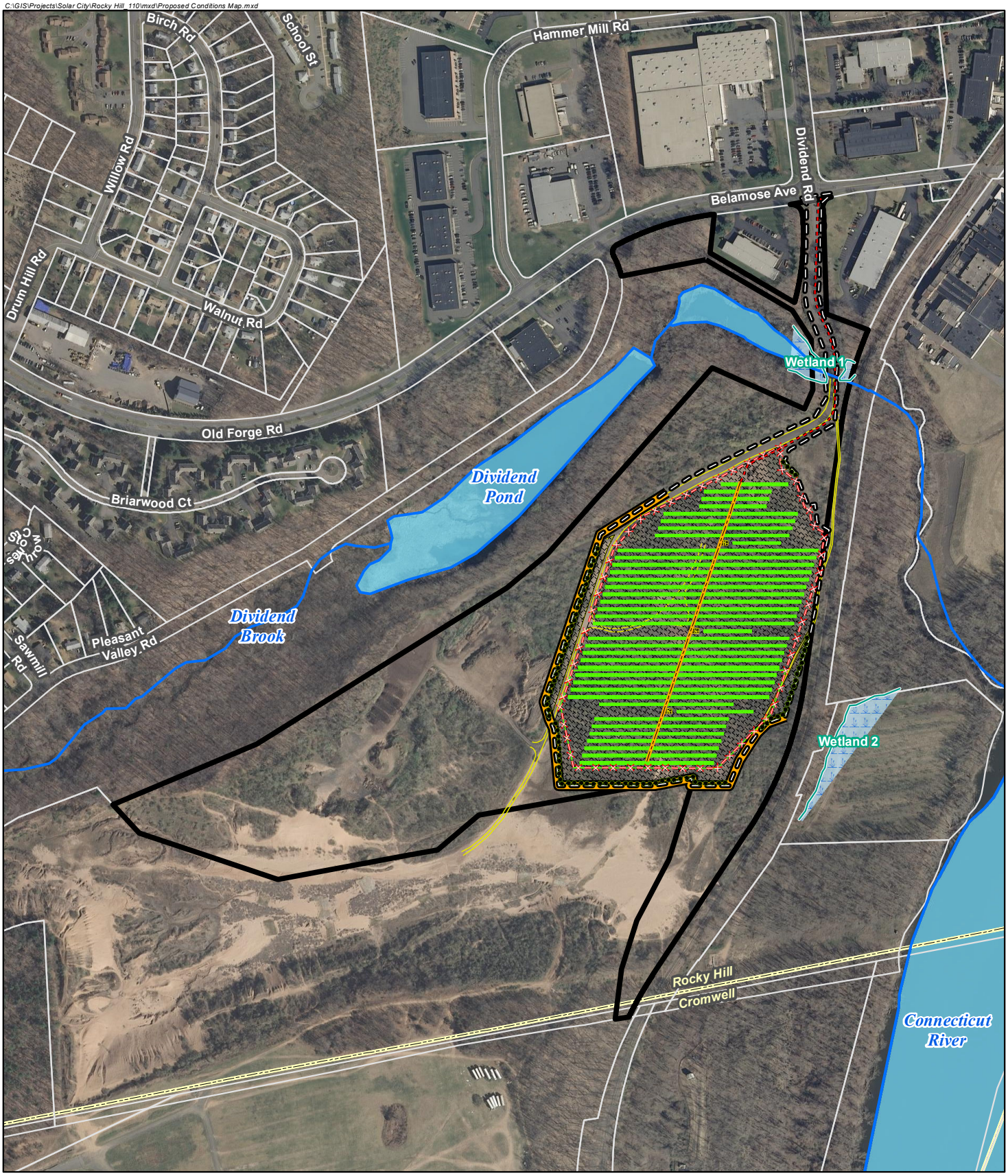

Legend

- Site Boundary
- Existing Access Drive
- Proposed Fenced Facility (+/-19 acres)
- Proposed Overhead Wire
- Proposed Underground Trench
- Existing Treeline/Clearing Limit
- Proposed Solar Module
- Proposed Electrical
- Project Area - Limit of Proposed Work (+/-24 acres)
- Disturbed Area to be Seeded for Turf Establishment (+/-21 acres)
- Limits of Orange Construction Fencing
- CTDEEP Watercourse
- CTDEEP Waterbody
- Delineated Wetland Boundary
- Wetland Area
- Approximate Assessor Parcel Boundary (CTDEEP)
- Municipal Boundary

N W E S

500 250 0 500 Feet

Map Notes:
Base Map Source: 2012 Aerial Photograph (CTECO)
Map Scale: 1 inch = 500 feet
Map Date: February 2016

Proposed Conditions Map

Proposed Solar PV Facility
Town of Rocky Hill
Old Forge Road
Rocky Hill, Connecticut

SolarCity
ALL-POINTS TECHNOLOGY CORPORATION

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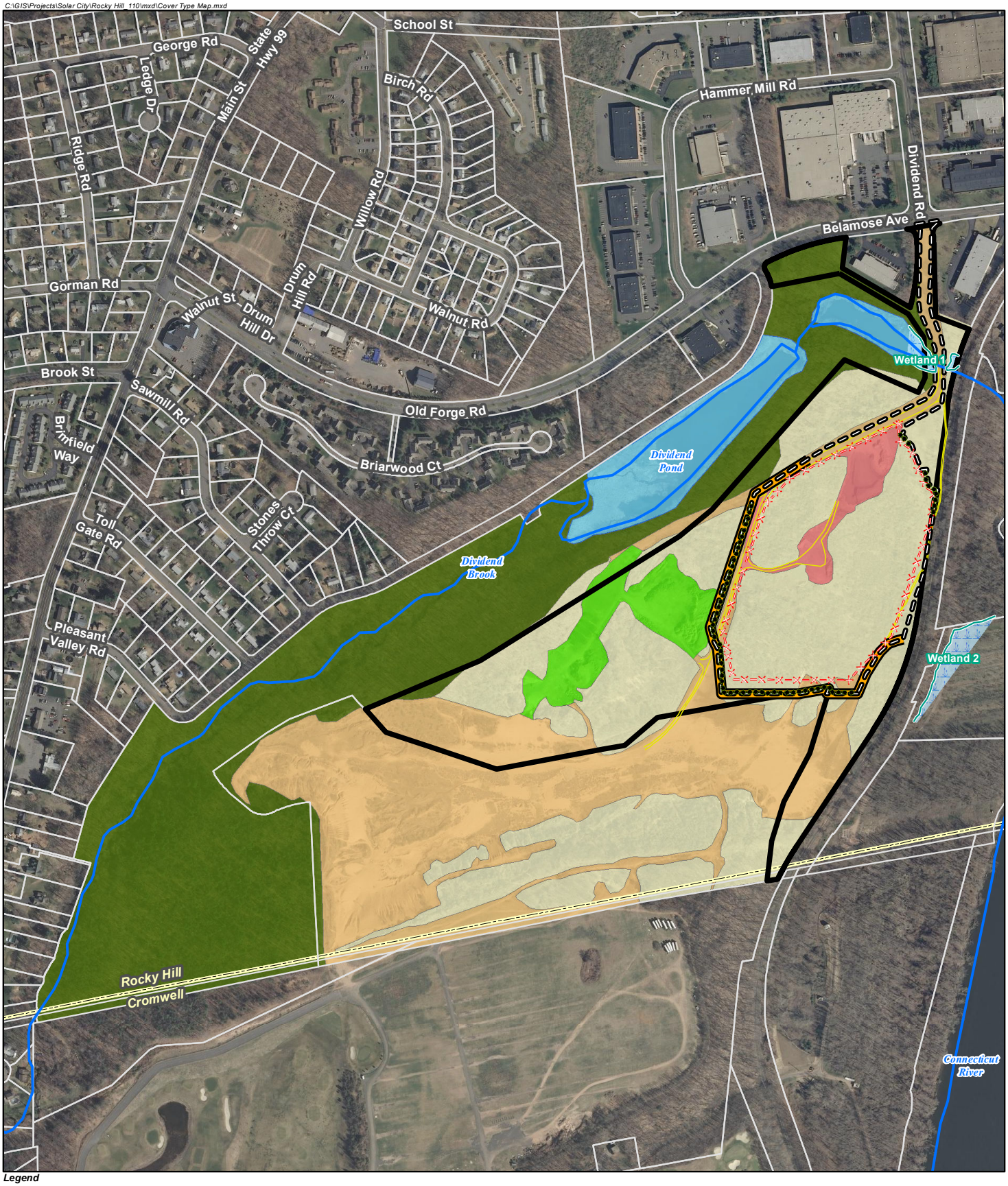

Legend

- Site Boundary
- Existing Access Drive
- Proposed Fenced Facility (+/-19 acres)
- Existing Treeline/Clearing Limit
- Limits of Orange Construction Fencing
- Project Area - Limit of Proposed Work (+/-24 acres)
- CTDEEP Watercourse
- Delineated Wetland Boundary
- Wetland Area
- Approximate Assessor Parcel Boundary (CTDEEP)

Cover Type

- Early Old Field/Unvegetated Sands
- Late Old Field
- Mixed Hardwood Forest
- Town Leaf/Brush Dump
- Town Stockpile Area - Asphalt Millings with Compacted Soils
- Water/Wetland
- Municipal Boundary

Map Notes:
Base Map Source: 2012 Aerial Photograph (CTECO)
Map Scale: 1 inch = 625 feet
Map Date: February 2016

N W E S

625 312.5 0 625 Feet

Cover Type Map

Proposed Solar PV Facility
Town of Rocky Hill
Old Forge Road
Rocky Hill, Connecticut

SolarCity

ALL-POINTS TECHNOLOGY CORPORATION

Attachment 2
Site Plans

Attachment 3
Photo Documentation

Photo 1: View of existing pavement milling access road looking south; Project Area begins at the clearing in photo background.

Photo 2: View of pavement millings and soil stockpile areas within Project Area looking south; photo taken from north-central end of Project Area.

Photo 3: View of existing access road looking east toward Project Area (far side of access characterized by dense vegetation; photo taken from west-central end of Project Area.

Photo 4: View of Project Area looking east; photo taken from center of Project Area.

Photo 5: View of Site looking east; photo taken approximately 600 feet southwest of Project Area.

Photo 6: View of Early Old Field/Unvegetated Sands habitat areas located approximately 1,000 feet southwest of Project Area looking northeast.

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Photo 7: View of Early Old Field/Unvegetated Sands habitat area adjacent to southwest corner of Project Area looking north.

Photo 8: View of Early Old Field/Unvegetated Sands habitat areas approximately 600 feet south of Project Area looking south.

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Attachment 4
Big Sand Tiger Beetle Poster

CAUTION

BIG SAND TIGER BEETLE ARE KNOWN TO INHABIT THIS AREA

Identification: Big Sand Tiger Beetle (*Cicindela Formosa generosa*) or "tiger beetle" is an invertebrate with usually shiny metallic bronze, blue, green, purple or orange body ranging from 10 – 21 mm. They are generally fast runners with long legs and long antennae that arise from the top of the head. Most are diurnal (daytime), sun loving species found in blowouts dunes, and other fin sparely vegetated sands. This sandy habitat is located on the southern and western peripheries of the Project Area, and extends outside the Project Area to the south and southwest.

What to do if you find a tiger beetle: Tiger beetles are protected by Connecticut's threatened and endangered species legislation and **cannot** be injured, killed, or retained as a specimen. If you find a tiger turtle, work shall be suspended in that area of the project. The tiger beetle should not be moved or disturbed in any manner as it is possible its burrow is close by (with the additional likelihood of other tiger beetle burrows in close proximity). The Project Environmental Monitor (listed below) should be immediately contacted, who will help assist in how to properly proceed.

Who to contact: Please report any observations of tiger beetle immediately to **Matt Gustafson of All-Points Technology Corp., P.C. at (860) 617-0613.**

Appendix D

Stormwater Monitoring Report Form

Connecticut Department of
Energy & Environmental Protection
Bureau of Materials Management & Compliance Assurance
Water Permitting & Enforcement Division

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, issued 8/21/13, effective 10/1/13
Stormwater Monitoring Report

SITE INFORMATION

Permittee: _____

Mailing Address: _____

Business Phone: _____ ext.: _____ Fax: _____

Contact Person: _____ Title: _____

Site Name: _____

Site Address: _____

Receiving Water (name, basin): _____

Stormwater Permit No. GSN _____

SAMPLING INFORMATION (Submit a separate form for each outfall)

Outfall Designation: _____ Date/Time Collected: _____

Outfall Location(s) (lat/lon or map link): _____

Person Collecting Sample: _____

Storm Magnitude (inches): _____ Storm Duration (hours): _____

Size of Disturbed Area at any time: _____

MONITORING RESULTS

Sample #	Parameter	Method	Results (units)	Laboratory (if applicable)
1	Turbidity			
2	Turbidity			
3	Turbidity			
4	Turbidity			

(provide an attachment if more than 4 samples were taken for this outfall) Avg =

STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: _____

Signature: _____ Date: _____

Please send completed form to:

DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
BUREAU OF MATERIALS MANAGEMENT AND COMPLIANCE ASSURANCE
79 ELM STREET
HARTFORD, CT 06106-5127
ATTN: NEAL WILLIAMS

Appendix E

Notice of Termination

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

Notice of Termination Form

Please complete and submit this form in accordance with the general permit (DEP-PED-GP-015) in order to ensure the proper handling of your termination. Print or type unless otherwise noted.

Note: Ensure that for commercial and industrial facilities, registrations under the *General Permit for the Discharge of Stormwater Associated with Industrial Activity* (DEP-PED-GP-014) or the *General Permit for the Discharge of Stormwater from Commercial Activities* (DEP-PED-GP-004) have been filed where applicable. For questions about the applicability of these general permits, please call the Department at 860-424-3018.

Part I: Registrant Information

1. Permit number: ***GSN***
2. Fill in the name of the registrant(s) as indicated on the registration certificate:

   Registrant:
3. Site Address:

   City/Town: State: Zip Code:
4. Date all storm drainage structures were cleaned of construction sediment:

   Date of Completion of Construction:

   Date of Last Inspection (must be at least three months after final stabilization pursuant to Section 6(b)(6)(D) of the general permit):
5. Check the post-construction activities at the site (check all that apply):

   ☐ Industrial ☐ Residential ☐ Commercial ☐ Capped Landfill

   ☐ Other (describe):

Part II: Certification

"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 those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

Signature of Permittee	Date
Name of Permittee (print or type)	Title (if applicable)

Note: Please submit this Notice of Termination Form to:

STORMWATER PERMIT COORDINATOR
BUREAU OF WATER MANAGEMENT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127