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March 7, 2013

**VIA HAND DELIVERY**

Ms. Linda Roberts  
Executive Director  
Connecticut Siting Council  
Ten Franklin Square  
New Britain, CT 06051

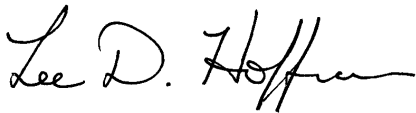
**Re: Petition 1056: Petition of GRE 314 East Lyme, LLC for a Declaratory Ruling for the Location, Construction, and Operation of a 5 MW Solar Photovoltaic Renewable Energy Generating Project on Grassy Hill Road and Walnut Hill Road in East Lyme, Connecticut**

Dear Ms. Roberts:

On behalf of the petitioner, enclosed is an original and fifteen (15) copies of the Pre-Hearing Submission of GRE 314 East Lyme, LLC ("GRE"). I am also enclosing a disk that contains an electronic version of the submittal. Due to the size of the electronic files associated with Exhibit 6 (site drawings and photographs), the submittal was not e-mailed. This was cleared through Lisa Fontaine of your office. The petitioner will seek to have all of the exhibits referenced in the submission admitted as full exhibits in the proceeding.

Should you have any questions concerning this submittal, please contact me at your convenience. Thank you in advance for your assistance.

Respectfully submitted,



Lee D. Hoffman

**STATE OF CONNECTICUT**  
**CONNECTICUT SITING COUNCIL**

**IN RE:**

**Petition 1056: Petition of GRE 314 East Lyme, LLC for a Declaratory Ruling for the Location, Construction, and Operation of a 5 MW Solar Photovoltaic Renewable Energy Generating Project on Grassy Hill Road and Walnut Hill Road in East Lyme, Connecticut**

**PETITION NO. 1056**

**MARCH 7, 2013**

**PRE-HEARING SUBMISSION OF GRE 314 EAST LYME, LLC**

GRE 314 East Lyme, LLC (“GRE”) hereby provides the Connecticut Siting Council (“Council”) with the following pre-hearing information available at this time regarding the above-captioned proceeding.

A. List of Witnesses

1. Robert Landino, Greenskies
2. Andrew Chester, Greenskies
3. Michael Klein, Environmental Planning Services
4. James Cowen, Environmental Planning Services
5. Chris Albino, BL Companies
6. Ray Gradwell, BL Companies

These witnesses will testify as to all matters covered in GRE's petition for declaratory ruling and other exhibits.

B. Exhibits to be offered

GRE intends, at this time, to offer the following Exhibits:

1. Publisher's Certificate; Notice of Public Hearing, New London Day [copy attached];
2. Sign Posting Affidavit with Photograph [copy attached];
3. Environmental Planning Services  
Statement of Qualifications  
Resumes:  
Michael Stephen Klein, CPWS  
James Cowen, CPWS  
Eric Richard Davidson  
[copies attached];
4. BL Companies Resumes:  
Chris Albino, BL Companies  
Ray Gradwell, BL Companies  
[copies attached];
5. State Historic Preservation Office Letter, dated March 6, 2013 [copy attached].
6. Site Drawings
  - Rendered Views
  - Overall Site Plan
  - Overall Aerial Plan
  - Initial Overall Control & Demolition Plan
  - Final Overall Control & Demolition Plan
  - Overall Site Grading, Drainage & Utility Plan
  - Maintenance Building – Plans and Elevations  
[copies attached];
7. Petition of GRE 314 East Lyme, LLC for a Declaratory Ruling for the Location, Construction, and Operation of a 5 MW Solar Photovoltaic Renewable Energy Generating Project on Grassy Hill Road and Walnut Hill Road in East Lyme, Connecticut, dated December 17, 2012, with accompanying figures and exhibits [submitted to the Council on December 17, 2012];

8. Responses of GRE 314 East Lyme, LLC to Connecticut Siting Council Pre-Hearing Interrogatories, dated February 21, 2013 [submitted to the Council on February 21, 2013];
9. Notice to Abutting Landowners and Certification, dated December 17, 2012 [submitted to the Council on February 21, 2013 as Exhibit Q-1 to the pre-hearing interrogatory responses, number 2, above];
10. Notice to Federal, State and Municipal Officials and Certification, dated February 12, 2013 [submitted to the Council on February 21, 2013 as Exhibit Q-1(A) to the pre-hearing interrogatory responses, number 2, above]; and
11. Cost Estimate Summary [submitted to the Council on February 21, 2013 as Exhibit Q-7 to the pre-hearing interrogatory responses, number 2, above.

GRE reserves the right to offer additional exhibits, testimony, witnesses and administratively noticed materials as new and pertinent information and materials come to its attention and in rebuttal to positions taken by the Council, parties or intervenors.

Respectfully Submitted,  
GRE 314 East Lyme, LLC

By: Lee D. Hoffman

Lee D. Hoffman  
lhoffman@pullcom.com  
Pullman & Comley, LLC  
90 State House Square  
Hartford, CT 06103-3702  
Ph. (860) 424-4315  
Fax (860) 424-4370  
It's Attorney

# **EXHIBIT 1**

**Publisher's Certificate; Notice of Public  
Hearing, New London Day**

# PUBLISHER'S CERTIFICATE

State of Connecticut  
County of New London, ss. New London

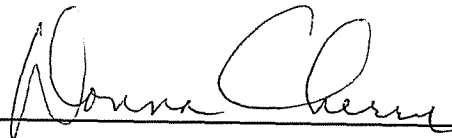
Personally appeared before the undersigned, a Notary Public within and for said County and State, Donna Cherry, Legal Advising Clerk, of The Day Publishing Company Classifieds dept, a newspaper published at New London, County of New London, state of Connecticut who being duly sworn, states on oath, that the Order of Notice in the case of

14846 NOTICE OF PUBLIC HEARING GRE  
314 East Lyme, LLC

A true copy of which is hereunto annexed, was published in said newspaper in its issue(s) of

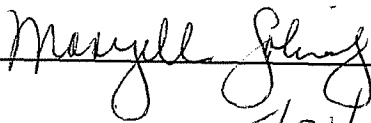
02/22/2013

Cust: Pullman & Comley LLC  
Ad #: d00442429



Subscribed and sworn to before me

This Friday, February 22, 2013



Notary Public

My commission expires

3/31/14

Friday, February 22, 2013

Public Notices

Public Notices

14846

## NOTICE OF PUBLIC HEARING

GRE 314 East Lyme, LLC ("GRE") has submitted petition for declaratory ruling to the Connecticut Siting Council ("Council") for approval of the location, construction, operation and maintenance of approximately five (5) megawatts ("MW") of solar photovoltaic ("PV") panels, associated ground equipment, an access road, an ancillary building, and an electrical interconnection at 40 and 44 Grassy Hill Road, 89 Walnut Hill Road, and Walnut Hill Road Rear in East Lyme, Connecticut. The Council will hold a public hearing on March 14, 2013, at the East Lyme Town Hall, 108 Pennsylvania Avenue, Niantic, CT, at 3 p.m. and 7 p.m. A copy of the petition can be viewed at the Town Hall or at the Council offices in New Britain, CT. For more information, please contact the Council by telephone at 860-827-2935, electronically at [www.ct.gov/csc](http://www.ct.gov/csc), or by mail at 10 Franklin Square, New Britain, CT 06051.

## **EXHIBIT 2**

### **Sign Posting Affidavit with Photograph**

**STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL**

**GRE 314 EAST LYME, LLC PETITION  
FOR A DECLARATORY RULING THAT  
NO CERTIFICATE OF  
ENVIRONMENTAL COMPATIBILITY  
AND PUBLIC NEED IS REQUIRED FOR  
THE PROPOSED CONSTRUCTION AND  
OPERATION OF A 5.0 MW SOLAR  
PHOTOVOLTAIC RENEWABLE ENERGY  
GENERATING PROJECT LOCATED ON  
GRASSY HILL ROAD AND WALNUT  
HILL ROAD, EAST LYME,  
CONNECTICUT**

**PETITION NO. 1056**

**MARCH 5, 2013**

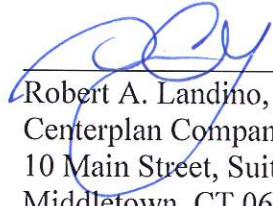
**SIGN POSTING AFFIDAVIT**

I, Robert Landino, being duly sworn, depose and state that:

1. I am over eighteen years of age and I understand the obligations of making a statement under oath.
2. I am the PE and CEO of Centerplan Companies, 10 Main Street, Suite B, Middletown, CT 06457 ("Centerplan").
3. Under my direction and supervision, Centerplan was responsible for the posting of the "Public Notice Sign" at the subject property. In accordance with Connecticut Siting Council ("Council") regulations section 16-50j-21(a)(3), the sign was posted on March 1, 2013.
4. The Public Notice Sign measures four (4) feet by six (6) feet and was posted at the site access driveway along Walnut Hill Road in East Lyme. The text of the posted notice is as set forth in the Council's regulations section 16-50j-21(a)(3). A photograph of the sign posted at the project site is attached to this affidavit.

[Signature page follows]

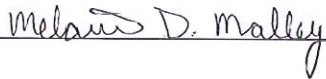




Robert A. Landino, PE, CEO  
Centerplan Companies  
10 Main Street, Suite B  
Middletown, CT 06457

Subscribed and sworn to  
before me, the undersigned,  
this 5 th day of March, 2013

**MELANIE D. MALLEY**  
**NOTARY PUBLIC**  
MY COMMISSION EXPIRES SEP. 30, 2017

  
\_\_\_\_\_

Notary Public / Commissioner of the Superior Court  
My Commission Expires:



PUBLIC NOTICE

GRB, 314 East 170th, LLC, has filed a petition with the Connecticut Voting Council ("Council") for authorization of a solar photovoltaic (PV) renewable energy generating system on this site. The proposed facility will consist of 5 megawatts of ground-mounted solar PV panels. The Council will hold a public hearing on March 14, 2013, at the East Lyme Town Hall, 100 Pennsylvania Avenue, Storrs, CT, at 7 p.m. and 7 p.m. A copy of the petition can be viewed at the Town Hall or at the Council office in New Britain, CT. For more information, please contact the Council by telephone at 860-527-7995, electronically at [www.ct.gov/vac](http://www.ct.gov/vac), or by mail at 10 Franklin Square, New Britain, CT 06051.



# **EXHIBIT 3**

## **Environmental Planning Services Statement of Qualifications and Resumes**

## STATEMENT OF QUALIFICATIONS

Environmental Planning Services was formed in 1983 to provide consulting services in the areas of biological, wetland, and soil sciences, environmental impact assessment and mitigation planning to public agencies and private clients; including design professionals, attorneys, site developers, municipalities, and public interest groups. In addition to identification, description, and classification of natural resources, the firm also provides functional evaluation of wetlands and other biological systems, guidelines for mitigation of potential adverse impacts, and permit support through expert testimony and public representation. Services provided revolve around the impact of human activities on terrestrial, wetland, aquatic, and marine resources. The firm specializes in biological and wetland surveys, impact assessment, and mitigation planning. Qualified staff consultants are available in such diverse fields as landscape architecture, computer modeling, and civil engineering.

Michael S. Klein is the founder and principal of Environmental Planning Services. He is a certified Professional Wetland Scientist and a registered Soil Scientist. He has provided environmental consulting services to a wide range of clients throughout the northeast, since 1977. These have included the US EPA, US DOE, US Army Corps of Engineers, FAA, CT DEP, CT DOT, many municipalities, and a variety of private clients. His background in biological and soil sciences includes studies of the impact of development proposals on upland, wetland, estuarine, riverine, and marine ecosystems.

James Cowen is a skilled botanist and wetland/soil scientist. He is also a degreed landscape designer and is responsible for preparing ecologically appropriate planting plans for mitigation areas and stormwater basins for EPS clients. He also have significant experience in oversight of construction of designed wetlands and stormwater basins. He is a certified Professional Wetland Scientist and has been with the firm since 1995.

Eric Davison is a wildlife biologist and wetland/soil scientist. He has significant field experience in vernal pool and amphibian surveys, as well as park/habitat management and geographical information systems (GIS). He is a certified Professional Wetland Scientist and has been with the firm since 1998.

## **SERVICES**

### RESEARCH

- Literature review and summary
- Terrestrial and marine sampling
- Regulatory review

### RESOURCE IDENTIFICATION AND EVALUATION

- Wetland delineation (CT and Army Corps)
- Rivers and estuaries
- Wildlife habitat
- Threatened and endangered species surveys
- Natural resource mapping and interpretation
- Functional wetland evaluation

### RESOURCE MANAGEMENT AND SITE PLANNING

- Environmental impact assessments
- Wetland mitigation
- Sediment and erosion control
- Coastal site plan (CAM) applications

For additional information, including representative projects, please visit us on the web at [www.epsct.com](http://www.epsct.com)

## **REPRESENTATIVE CLIENTS**

Spath-Bjorklund Associates	Konover Development Corp.
LADA, PC	Avonridge, Inc.
Swig, Weiler and Arnow	ERL, Ltd.
Leonard Jackson and Associates	Marin Environmental
Hayes-Kaufman Partnership	Bell Atlantic Mobile NYNEX
Planimetrics	Richter and Cegan
Robinson and Cole	CT DOT
FIP Corporation	RI DOT
Fuss and O'Neill, Inc.	Town of East Granby, CT
Cohen and Wolf, PC	Town of Winchester, CT
Purcell Associates	Town of Groton, CT
F. A. Hesketh and Associates	Town of Westport, CT
Town of Colchester, CT	City of Groton, CT
Town of Ellington, CT	Town of East Windsor, CT
Town of South Windsor, CT	City of Bridgeport, CT
The Lyman Farm, Inc.	Town of Monroe, CT
National Fairways	Town of Avon, CT
T & M Builders	Town of Westbrook, CT
HRP, Inc.	Town of Glastonbury, CT
Town of Windsor, CT	Town of North Stonington, CT

# RESUME

## MICHAEL STEPHEN KLEIN, CPWS

**POSITION** Principal

**TENURE** 1983-Present

**DUTIES** Prepares site evaluations and impact assessments for EPS projects. Responsibilities include coordinating work of all subcontractors, liaison with regulatory agencies and clients, conducting field surveys, flagging wetland limits, designing mitigation projects, supervising construction, reviewing plans and recommendations for impact minimization. Presents results at public hearings and agency meetings.

**PREVIOUS EXPERIENCE** Senior Environmental Analyst, MRE, 1978-1983.  
Ecologist, COMSIS Corporation, 1977-1978.

**EDUCATION** BA, Biology, 1973, University of Connecticut.  
MS, Marine Environmental Sciences, 1976  
State University of New York at Stony Brook, Stony Brook, NY.

**CERTIFICATION** Registered Soil Scientist  
Certified Professional Wetland Scientist

**PROFESSIONAL AFFILIATIONS** Society of Soil Scientists of Southern New England  
Association of Massachusetts Wetland Scientists  
Society of Wetland Scientists  
Connecticut Association of Wetland Scientists (Charter Member)

**PUBLIC SERVICE** New Hartford, CT Planning and Zoning Commission  
Member, 1987-1995  
New Hartford Inland Wetlands and Watercourses Commission  
Member, 1986-1995  
Vice-Chairman, 1990-1993  
Chairman, 1993-1995

# RESUME

## JAMES COWEN, CPWS

**POSITION** Senior Wetland Scientist/Landscape Designer

**TENURE** 1995-Present

**DUTIES** Prepares biological resource evaluations and impact assessment reports for EPS projects. Responsibilities include conducting field surveys, wetland delineation (for state and federal jurisdictions), identifying and mapping vegetation and wildlife habitat, and monitoring mitigation projects. Prepares landscape restoration plans, wetland and mitigation design. Provides oversight and coordination of wetland planting design implementation. Prepares and oversees implementation of invasive species management plans. Presents results at public hearings as required.

**EDUCATION** Graduate Studies in Soil Science, University of Massachusetts, Amherst, Massachusetts, 1997-1999

M.A., Landscape Design, Conway School of Landscape Design, Conway, MA, 1995

B.A., Biology, University of California at San Diego, San Diego, CA (with Honors), 1973

**PROFESSIONAL AFFILIATIONS** Connecticut Association of Wetland Scientists  
Connecticut Botanical Society  
Society of Soil Scientists of Southern New England  
Society of Wetland Scientists  
New England Wildflower Society  
Connecticut Invasive Plant Species Working Group

**REGISTRATION** Registered Soil Scientist  
Certified Professional Wetland Scientist

**PERMITS** 2000-present. State of Connecticut, Department of Environmental Protection. *Plant Collection Permit.*

## **GUEST LECTURER**

1995-2005. *Vernal Pool Ecology & Ecological Assessment Field Methodology*. Conway School of Landscape Design, Conway, MA

## **PUBLIC SERVICE**

North Stonington Plan of Conservation and Development Subcommittee, Planning and Zoning Commission, 2001-2003.

Connecticut Botanical Society, Board of Directors, 1996-2002.

North Stonington Citizen's Land Alliance, Board of Directors, 1995-2002.

New England Wildflower Society, Plant Conservation Volunteer, 2001-2003



# RESUME

ERIC RICHARD DAVISON

- POSITION** Wildlife Biologist / Wetland Scientist / Soil Scientist
- TENURE** 1998-Present
- DUTIES** Prepares wildlife, fisheries, natural resource inventories, wetland delineations, and impact assessments for EPS projects. Responsibilities include conducting field and literature surveys, identifying fish and wildlife species and sign encountered in the field, and mapping habitat types. Assists in development of habitat loss mitigation strategies. Conducts landscape scale assessments and habitat mapping using GIS technology.
- EDUCATION** B. S., Wildlife Conservation, University of Massachusetts at Amherst, 1998; Soil Science certificate program, University of Massachusetts, Amherst 2000
- CERTIFICATION** Registered Soil Scientist  
Certified Professional Wetland Scientist
- PROFESSIONAL AFFILIATIONS** Member, Society of Soil Scientists of Southern New England  
Member, Society of Wetland Scientists  
Consulting Wildlife Biologist, Northwest Park, 2000-present  
Staff Liaison, Conservation Commission, Town of Windsor, 2000-2002

# **EXHIBIT 4**

## **BL Companies Resumes**

**PROJECT ROLE**

Senior Project Manager  
Principal

**EDUCATION**

Bachelor of Science in Civil Engineering  
Rensselaer Polytechnic Institute, 1990

**REGISTRATION**

Professional Engineer: Connecticut, Delaware, District of Columbia, Florida, Kentucky, Maine, Maryland, Massachusetts, Missouri, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, Virginia, West Virginia

**PROFESSIONAL MEMBERSHIPS**

NCEES Record holder, AISC, ASCE

Christopher Albino, PE

**SUMMARY OF QUALIFICATIONS**

Mr. Albino is a Senior Project Manager with more than 22 years of experience that covers a broad range of projects in the public and private sectors. He has been involved in the project management of several photovoltaic and utility projects, along with numerous retail, industrial, municipal and residential buildings. Additionally, Chris is experienced in structural design, site design, roadway design and geotechnical investigations.

**RELEVANT EXPERIENCE****Astro Chemical Solar Installation, Springfield, Massachusetts**

Served as Project Manager and Structural Engineer for the design of a 97kW ground-mounted solar array on the site of an existing warehouse facility, which will be tied into the building's electrical panel. The system will include Sharp panels on "UniRac" racking, as well as electronic monitoring and net metering for the utility company.

**Sika Sarnafil Solar Installation, Canton, Massachusetts**

Served as Project Manager and Structural Engineer for the design of two 60kW roof-mounted solar arrays on the roof of an existing warehouse facility, which will be tied into the building's electrical panel. As part of the work, a structural analysis of the existing roof was performed, to verify adequate capacity to carry the additional weight of the solar panels. The system is the first phase of a study project for different types of solar panel modules, and incorporates Sharp panels on "SolarDock" mounts and Solyndra panels on integral mounts, and will include electronic monitoring and net metering for the utility company.

**Wal\*Mart Solar Installation, Multiple Locations in Massachusetts and New Jersey**

Served as Project Manager and Structural Engineer for the design of several 300 to 400kW roof-mounted solar arrays on the roof of existing Wal\*Mart stores, which will be tied into the building's electrical service. As part of the work, a structural analysis of the existing roof was performed, to verify adequate capacity to carry the additional weight of the solar panels. The systems incorporated Yingli and EcoSoalrgy solar modules on Sollega Instarack-10 racking with ballast blocks, and will include electronic monitoring and metering for the utility company.

**Target Solar Installation, Brick Township & Howell New Jersey**

Served as Project Manager and Structural Engineer for the design of two 455kW roof-mounted solar arrays on the roof of existing Target stores, which will be tied into the building's electrical service. As part of the work, a structural analysis of the existing roof was performed, to verify adequate capacity to carry the additional weight of the solar panels. The systems incorporated Solon SolQuick modules on integral frames, and will include electronic monitoring and SREC metering for the utility company.

**Assumption College D'Alzon Library Solar Installation, Worcester, Massachusetts**

Served as Project Manager and Structural Engineer for the design of 58kW roof-mounted solar arrays on the roof of an existing library, which will be tied into the building's electrical panel. As part of the work, a structural analysis of the existing roof was performed, to verify adequate capacity to carry the additional weight of the solar panels. The system incorporates Trina panels on "Sollega" mounts, and will include electronic monitoring and net metering for the utility company.

**Wal\*Mart Solar Installation, Freehold, Flemington, Neptune & Lanoka Harbor New Jersey**

Served as Project Manager and Structural Engineer for the design of 400kW roof-mounted solar arrays on the roof of existing Wal\*Mart stores, which will be tied into the building's electrical service. As part of the work, a structural analysis of the existing roof was performed, to verify adequate capacity to carry the additional weight of the solar panels. The systems incorporated Solyndra solar modules on integral mounts, and will include electronic monitoring and net metering for the utility company.

**Brazel-Snyder Solar Installation, Hebron, Connecticut**

Served as Project Manager and Structural Engineer for the design of a 6kW roof-mounted solar array on the site of an existing office building, which will be tied into the building's electrical panel. The system includes Sharp panels on "Solarmount" rails over an existing shingle roof, as well as net metering for the utility company.

**Connecticut DOT Service Plaza Renovations, 23 Various Plazas in Connecticut**

Served as Manager of Structural Engineering for the design of alterations, renovations or complete buildings on each of the 23 highway service plazas in Connecticut. The building structures are mostly steel framed, with cross-brace or moment frames, with reinforced concrete foundations. Conditions surveys of existing structures were also performed, with any discovered discrepancies incorporated into the construction documents for each project. BL Companies provided full architecture, engineering, surveying and environmental services for these projects, which also included the design of photovoltaic systems at each site.

**PSE&G Substation Upgrades, Burlington & Camden, New Jersey**

Served as Structural Manager for foundation and pile design of the upgraded PSE&G Electrical Substations in Camden and Burlington, NJ. Project responsibilities included oversight of the structural design of all equipment foundations and piles and termination structures.

**PSEG, Susquehanna – Roseland 500-kV Transmission Line, Susquehanna to Roseland, New Jersey**

Serving as Structural Manager for a 46-mile electric transmission line project in northern New Jersey, stretching from East Stroudsburg, Pennsylvania to Roseland, New Jersey. Project responsibilities include the structural design of micro-pile foundations for lattice towers set in rock and soil on extreme slopes along the ROW.

**Bethel/Norwalk Transmission Termination Structure, Bethel, Connecticut**

Manager of Structural Engineering for the structural design of an electrical transmission termination structure for Northeast Utilities. The galvanized steel frame supported multiple incoming transmission lines, and was designed to resist the lateral forces produced by the cables including wind and seismic loading.

**Telecommunication Installations, Various Sites in Connecticut and New York**

Served as Project Manager for the structural design and/or analysis of multiple roof-mounted telecommunication platforms at multiple locations throughout Connecticut and New York. Work included the design and analysis of the platform framing, analyzing the existing building structure for the additional loads, and the design of antennae mounts to roof structures and parapets. Deliverables were sealed permit letters depicting our findings and recommendations, and full structural calculation packages for building department approvals.

**National Grid Meter Station, Staten Island, NY**

Served as Manager of Structural Engineering for the structural design of new and retro-fit pile foundations to support natural gas piping at a metering facility. The work was coordinated closely with the site and utility engineers to avoid conflicts. Design services were completed in early 2011.

**Natural Gas Meter & Regulator Vault, Brooklyn, NY**

Served as Project Manager for the structural design of new underground vault to house natural gas piping and metering. The work was coordinated closely with the site and utility engineers, along with the landscape architect to avoid conflicts and to blend the access points into the existing park setting. Design services were completed in late 2012.

**United States Army Reserve Center, Roanoke, Virginia**

Served as Structural Engineer of Record for the design of a 42,000 square foot Army Reserve Center and a 7,500 square foot maintenance facility with a 20 ton overhead crane. Project responsibilities included client liaison and management of the structural team during the proposal, design and construction administration of the two structures, including anti-

terrorism and blast protection design. This project included a “Fast-Track” design for the structural package. Design services were completed in 2012.

**Southern Connecticut State University, Parking Garage, New Haven, Connecticut**

Served as Manager of Structural Engineering for the design of a new 1,200-car parking garage on Southern Connecticut State University’s New Haven campus. The facility is a five-story precast concrete structure on cast-in-place concrete foundations, with an attached entry lobby of structural steel and glass facade. BL Companies, which was contracted through the State of Connecticut Department of Public Works, also provided architectural, mechanical, electrical, plumbing design, and site engineering for this project. Design services were completed in December 2008.

**Fairfield University Combined Heat & Power Facility, Fairfield, Connecticut**

Served as Manager of Structural Engineering for the structural design of a 3,500 SF building that houses industrial mechanical equipment. Responsible for coordinating staff for the structural design and preparation of construction documents for this multi-level steel-framed structure with reinforced exterior masonry walls. Foundations included multiple retaining walls, as well as large equipment bases subject to vibrations and torsional forces. Also, performed a structural quality assurance and control for the final construction documents, as well as coordinating staff for the structural shop drawing review and structural construction administration.

**Utility Vault Rehabilitation, West Hartford, Connecticut**

Served as Senior Structural Engineer for the structural inspection of an existing under-sidewalk transformer vault in West Hartford, CT. This steel beam/concrete slab structure had extensive surface cracking and deteriorated concrete, and required a complete slab reconstruction. Work included physical inspection of the existing vault structure, and construction documents for the rehabilitation, with coordination with the utility company, the property management group, and the property tenant.

**PROJECT ROLE**

Manager of the Civil / Land Development Group

**EDUCATION**

Bachelor of Science, Civil Engineering, University of New Haven, 1991

**REGISTRATION**

Professional Engineer: Connecticut, Massachusetts, New Jersey, Rhode Island, Vermont, Virginia

**PROFESSIONAL MEMBERSHIPS**

Chairman of the City of Meriden Public Utilities Commission

NCEES Record holder

Society of American Military Engineers (SAME)

Raymond B. Gradwell, PE

**SUMMARY OF QUALIFICATIONS**

Mr. Gradwell has over 22 years of experience in engineering and construction management in the federal, public, pre K-12 schools, higher education, retail, commercial, financial, residential, industrial, and utility markets. Specifically, he has been involved in providing civil engineering services associated with the design of federal, public and privately owned / developed facilities with an expertise in the areas of federal, retail, K-12, athletic field, and healthcare. As Project Manager at BL Companies, Mr. Gradwell's responsibilities include civil engineering design, project financial tracking, project and resource scheduling, multi-discipline project coordination, land use permitting and construction administration. Mr. Gradwell is the Chairman of the City of Meriden Public Utilities Commission, which is responsible for the City of Meriden's sanitary sewers and public water supply.

**RELEVANT EXPERIENCE****Burns and McDonnell NEEWS MSA - Manchester to Meekville Junction Circuit Separation Project (MMP), Manchester, Connecticut**

Served as Project Manager responsible for work that includes Conditional Letter of Map Revision – Fill (CLOMR-F) request to FEMA, and preparation of supplemental mapping, plans and hydraulic reports associated with the request.

Mr. Gradwell managed the preparation of a floodway analysis of the Hockanum River and Hop Brook, performing a Stream Channel Encroachment Line (SCEL) hydraulic model for the Hockanum River and facilitating the permitting process from completing permit applications to receiving permit approvals. The floodway analyses were completed utilizing Federal Emergency Management Agency (FEMA) backup data and U.S. Army Corps of Engineers Hydraulic Engineering Centers River Analysis System (HEC-RAS) v.4.0. A Floodway and Report was completed to document all findings.

**Electrical Sub-Station, Crescent Road, Camden, New Jersey**

Serves as Project Manager responsible for the stormwater management and erosion and sediment control planning and permitting at an Electrical Sub-Station. BL Companies has been hired by VI Engineering, LLC to provide engineering services on the 45 acre site that is located in Camden, New Jersey for the following services: existing condition/site clearing plan, site paving plan, traffic flow plan, grading and drainage plan, site hydrology/stormwater management design and report, and sedimentation and erosion control plans and details.

**Electrical Sub-Station, Devlin Lane, Burlington, New Jersey**

Serves as Project Manager responsible for the stormwater management and erosion and sediment control planning and permitting at an Electrical Sub-Station. BL Companies has been hired by VI Engineering, LLC to provide engineering services on the 65 acre site that is located in Burlington, New Jersey for the following services: existing condition/site clearing plan, site paving plan, traffic flow plan, grading and drainage plan, site hydrology/stormwater management design and report, and sedimentation and erosion control plans and details.

**On-Call Campus Infrastructure Improvements, University of Massachusetts of Amherst, Amherst, Massachusetts**

Served as Project Manager for the design of various infrastructure improvements including parking lot and stormwater management facilities for the University of Massachusetts of Amherst. These design improvement were for Parking Lot # 25 at the Mullins Center, Butterfield House Parking Lot, and for the McGuirk Stadium Parking Area. BL Companies also provided a number of integrated services including geotechnical engineering, land surveying, civil engineering and construction administration. Coordination with the Pioneer Valley Transit Authority was provided due to funding and use of the facilities by the Authority.

**West Dayton Hill Pond Dam, Wallingford, Connecticut**

Served as Project Manager for the design and replacement of the West Dayton Hill Road Bridge. Mr. Gradwell performed an in-depth Hydrologic and Hydraulic Model for the Muddy River including Dayton Pond. This work included meeting with the Connecticut Department of Environmental Protection's (ConnDEEP) Dam Safety Unit to discuss the modeling necessary to ensure that a Flood Management Certification Approval (FMCA), could be issued for the bridge replacement. Mr. Gradwell at the request of ConnDEEP and the Town of Wallingford, managed a structural inspection of Dayton Pond Dam and performed a partial and full breach analysis of the dam in order to determine downstream flooding limits and volume of flow and velocities to be utilized in design of the bridge.

**Warren Avenue Detention Basin, Naugatuck, Connecticut**

Served as Project Manager pursuant to the ConnDEEP Consent Order DSO-2002-1009V. Mr. Gradwell managed the preparations of the survey, structural analysis, geotechnical studies, hydrologic and hydraulic analyses, dam breach analysis, Emergency Operations Plan (EOP), and site investigations of this pond's dam to determine the necessary repairs to relieve the property owner of the Consent Order. Mr. Gradwell worked very closely with the Connecticut Department of Environmental Protection's (ConnDEEP) Inland Water Resources Dam Safety Unit on every submission and through Final Construction Documents. Upon resolution of the Consent Order, Mr. Gradwell managed the construction inspection of the required work.

**Shuttle Meadow Country Club, 51 Randeckers Lane, Kensington, Connecticut**

Serves as the Project Engineer for the Shuttle Meadow Country Club project. BL Companies has been working with Shuttle Meadow Country Club to perform short-term and long-term structural repairs/modifications to the existing stone masonry spillway and earthen embankment. BL Companies recently completed short-term structural design repairs, after discussions with ConnDEEP's Dam Safety Unit, which consisted of the installation of two new concrete piers on the spillway to regulate the water level of the 1000-acre pond. This work did not require a Dam Safety Permit in accordance with the Inland Wetlands and Watercourses Act, Sections 22a-401 through 22a-411 of the Connecticut General Statutes (CGS). Phase II of this project will consist of a partial and full breach analysis of the dam and preparation a ConnDEEP Dam Safety Permit Application for the recommended structural repairs/modifications.

**South Campus Express Line Water Main Distribution Main, University of Connecticut, Storrs, Connecticut**

Served as Project Manager for the South Campus Express Line Water Distribution in Bolton Road across Storrs Road. The project services included land surveying, civil engineering services, including preparation of designs, cost estimates, construction documents, and assistance in the bidding process. The project involved the design of approximately 600 linear feet of 12" diameter water distribution main (Express Line) from the existing water main in Bolton Road across Storrs Road to serve the proposed Storrs Center.

**Camp Rell Readiness Center, Niantic, Connecticut**

Served as Project Manager responsible for providing full civil engineering and landscape architecture services for the new Camp Rell Readiness Center. The design services included site road re-alignment, utility re-alignment, planting design, building layout, parking layout, grading and storm water management. The project management services included land use permitting with the Connecticut Department of Environmental Protection and Connecticut Department of Public Health, multi-discipline coordination, soliciting geotechnical services along with pavement design services. Design services were completed in 2006.

**Sherwood Island State Park, Westport, Connecticut**

Served as Project Engineer responsible for providing full civil engineering and landscape architecture services for the re-development and improvements to Sherwood Island State Park. The design services included traffic circulation improvements, bus parking areas for approximately 100 buses, parking areas for approximately 3000 cars, utility connections, site planting design, building layout, sediment and erosion control, grading and storm water management. Design services were completed in 2002.

**River Street Industrial Subdivision, Ansonia, Connecticut**

Served as Project Engineer responsible for providing full civil engineering, landscape architecture, and environmental engineering services for the River Street Industrial Subdivision. The design services included a remedial action plan (RAP), utility connections, lot layout, road plan and profile and site planting design, building layout, parking layout, grading and storm water management. Design services were completed in 2001.

**Greenwich Public Safety Complex (Fire & Police), Greenwich, Connecticut**

Served as Project Manager responsible for the preparation of permitting and contract documents as well as contract administration services for the new Greenwich Public Safety Complex (Fire & Police). The design included: a parking garage, sally port, site layout, public access and parking, an utility plan, a grading plan, an erosion and sediment control plan, a planting plan, and a storm water management plan. The land use permitting included the Town of Greenwich Planning and Zoning Commission, and State of Connecticut Department of Environmental Protection Agency application and subsequent approvals. Design services were completed in 2004.

**Regional School District 17 Intermediate School, Killingworth, Connecticut**

Served as Project Manager responsible for the preparation of permitting and contract documents as well as contract administration services for the new intermediate school. The design included: 250 parking spaces, bus and parent drop areas, site layout, an athletic complex consisting of a baseball field, soccer field and softball field, utility plan, grading plan, erosion and sediment control plan, planting plan, potable water wells, septic system, pressurized sewer system, advanced wastewater treatment and storm water management plan. The land use permitting included the Town of Killingworth Inland Wetland and Watercourse Commission and Planning and Zoning Commission, and State of Connecticut Department of Environmental Protection Agency application and subsequent approvals. The project also included a remedial action plan (RAP) that was coordinated with the civil engineering design. Design services were completed in 2004.

**Plymouth High School, Plymouth, Connecticut**

Served as Project Manager responsible for the preparation of permitting and contract documents as well as contract administration services for the new high school. The design included: 250 parking spaces, bus and parent drop areas, site layout, an athletic complex consisting of a baseball field, football field / soccer field, running track, and softball field, utility plan, grading plan, erosion and sediment control plan, planting plan, and storm water management plan. The land use permitting included the Town of Plymouth Inland Wetland and Watercourse Commission and Planning and Zoning Commission, and State of Connecticut Department of Environmental Protection Agency application and subsequent approvals. Design services were completed in 2005.

**Roger Ludlowe Middle School, Fairfield, Connecticut**

Served as Project Manager responsible for the preparation of permitting and contract documents as well as contract administration services for the new middle school. The design included: 650 parking spaces, bus and parent drop areas, site layout, an athletic complex consisting of a field hockey field and a soccer field, utility plan, grading plan, erosion and sediment control plan, planting plan, and storm water management plan. The land use permitting included the Town of Fairfield Inland Wetland and Watercourse Commission and Planning and Zoning Commission, and State of Connecticut Department of Environmental Protection Agency application and subsequent approvals. Design services were completed in 2005.

**McKinley Elementary School, Fairfield, Connecticut**

Served as Project Manager responsible for the preparation of permitting and contract documents as well as contract administration services for the elementary school. The design included: 100 parking spaces, bus and parent drop areas, site layout, utility plan, grading plan, erosion and sediment control plan, planting plan, and storm water management plan. The land use permitting included the Town of Fairfield Inland Wetland and Watercourse Commission and Planning and Zoning Commission, and State of Connecticut Department of Environmental Protection Agency application and subsequent approvals. Design services were completed in 2005.

**Bridgeport Superior Court and Center for Juvenile Matters, Bridgeport, Connecticut**

Served as Project Manager responsible for providing full civil engineering, landscape architecture, and environmental engineering services for the new Bridgeport Superior Court and Center for Juvenile Matters. The design services included a remedial action plan (RAP), utility connections, public pocket park design and site planting design, building layout, parking layout, grading and storm water management. The project management services included land use permitting with the Connecticut Department of Environmental Protection and multi-discipline coordination. Design services were completed in 2006.

**The Hamptons Planned Urban Subdivision (PURD), Ogden, Utah**

Served as Project Engineer responsible for providing full civil engineering and landscape architecture, services for the Hamptons PURD. The design services included, lot layout, site road plans and profiles and site planting design, building



layout, parking layout, erosion and sediment control, grading utility connections and off-site improvements and storm water management. Design services were completed in 2001.

**Picatinny Arsenal Advanced Weapons Development Facility, Picatinny Arsenal, New Jersey**

Served as Project Engineer responsible for providing full civil engineering services for the new Advanced Weapons Development Facility. The Advanced Weapons Development Facility included a cast-in-place reinforced concrete firing dome and projectile tunnel. The design services included planting design, building layout, parking layout, grading, septic system testing and design, potable water system design, erosion and sediment control, utility connections and storm water management. Design services were completed in 1993.

**Eastern Connecticut State University, Willimantic, Connecticut**

Served as Project Manager for the land use permitting of a design / build parking garage on the Eastern Connecticut State University campus. Project responsibilities included the management of the State Traffic Commission and CTDEEP permitting which included civil engineering and traffic engineering disciplines. Design services were completed in 2006. Architect of Record: Diversified Technology Consultants.

**Suffield High School, Suffield, Connecticut**

Served as Project Manager responsible for the preparation of permitting and contract documents as well as contract administration services for the new high school. The design included: 400 parking spaces, bus and parent drop areas, site layout, an athletic complex consisting of a baseball field, football field / soccer field, running track, and softball field, utility plan along with a pressurized sewer system, grading plan, erosion and sediment control plan, planting plan, and storm water management plan. The land use permitting included the Town of Suffield Inland Wetland and Watercourse Commission and Planning and Zoning Commission, and State of Connecticut Department of Environmental Protection Agency flood management certification and dam construction permit applications and subsequent approvals. Design services were completed in 2005.

**Davis Street Arts and Academics School, New Haven, Connecticut**

Served as the Senior Project Manager responsible for the preparation of permitting and contract documents as well as contract administration services for the new school. The design included: 54 parking spaces, bus and parent drop off areas, site layout, an athletic field, utility plan, grading plan, erosion and sediment control plan, planting plan, and storm water management plan. The land use permitting included the City of New Haven City Plan Commission, and State of Connecticut Department of Environmental Protection Agency application and subsequent approvals. The project also included a remedial action plan (RAP) that was coordinated with the civil engineering design. Design services were completed in 2009.

**McGuire Air Force Base, Joint Improvised Explosive Device Defeat Organization, Fort Dix, New Jersey**

Serves as Project Manager for a design-build project for a Joint Improvised Explosive Device Defeat Organization at McGuire Air Force Base in Fort Dix, New Jersey. We are performing the design of approximately four miles of training roadways, miscellaneous culverts and bridges, and a 20,000 square foot storage and training building. Additionally, we will be performing extensive stormwater management and permitting services within the New Jersey Pineland's Commission area.

**Middlesex Hospital Emergency Department Expansion, Middletown, Connecticut**

Served as Project Manager responsible for providing full civil engineering services for the Middlesex Hospital Emergency Department Expansion. The design services included utility connections, sediment and erosion control, helipad consulting, grading and storm water management. The project management services included land use permitting with the City of Middletown and State of Connecticut Department of Transportation along with multi-discipline coordination. Design services were completed in 2006.

**On-Call Engineering Consultant, Town of Canton, Connecticut**

Serves as Client and Project Manager responsible for the engineering review of planning & zoning application documents including stormwater management and erosion and sediment control planning for projects proposed within the Town of Canton.

## **EXHIBIT 5**

**State Historic Preservation Office Letter,  
dated March 6, 2013**



March 6, 2013

Atty. Lee D. Hoffman  
Pullman & Comley, LLC  
90 State House Square  
Hartford, CT 06103-3702

Subject: Comments on Proposed GRE East Lyme, LLC Antares Solar Field east of Walnut Hill Road, East Lyme

Dear Attorney Hoffman,

The State Historic Preservation Office is responding to your request for our review of a proposed Antares Solar Field on approximately 35 acres of land in the Town of East Lyme. The affected properties are located on Pigeon Hill and include 40 and 44 Grassy Hill Road, 89 Walnut Hill Road, and Walnut Hill Road Rear. The proposed solar facility will include over 17,500 photovoltaic modules and electrical interconnection of the modules. Fencing and landscaping are planned to minimize the visual impacts of the facility on the surrounding residences. This proposal is the subject of a petition filed with the Connecticut Siting Council pursuant to Connecticut General Statutes Section 16-50k(a) pertaining to electric generating facilities. We provide the following comments regarding the potential impacts to historic properties eligible for listing in the State or National Registers of Historic Places, inclusive of archaeological resources which may be present within the project limits.

SHPO notes that a previously proposed residential subdivision encompassing the majority of the solar field project area was assessed for potentially significant archaeological or historic architectural resources in 2006 and 2007. An archaeological reconnaissance survey conducted by Heritage Consultants, LLC (Heritage) resulted in the identification of a late 19<sup>th</sup> through early 20<sup>th</sup> century residential archaeological site (Site 45-62) in the western section of the current project limits. The archaeological resources are associated with a small farmstead and vernacular style house that was still standing at the time of the surveys. Based on the results of the completed investigations, that site and house were determined to be *ineligible* for listing in the National Register of Historic Places due to compromised integrity and a limited potential to provide important new information on the past. Based on the survey, it is SHPO's opinion that Site 45-62 is also ineligible for listing in the State Register of Historic Places. No other potentially significant historic resources were identified within the proposed subdivision and no additional investigations were recommended by Heritage.

The previously surveyed area substantially overlaps the proposed solar facility. The unsurveyed lands considered here include a wedge shaped parcel extending south and tapering to the west of the former subdivision proposal and a smaller parcel extending between the southern boundary of the subdivision lands and Walnut Hill Road to the west. Although we recommend no additional investigations within the previously surveyed sections, SHPO notes that the southwestern flank of Pigeon Hill would have provided potentially attractive vantage points of the valley through which present-day Walnut Hill Road runs. Such locations were often used by Pre-Contact Period Native Americans to monitor game movements, as suggested by the results of the extensive investigations of the Route 11 extension corridor located approximately 1 to 1.5 miles east of this project area. It is therefore our opinion that the southern extension of project area has a moderate potential to contain significant archaeological resources that may be affected by the proposed construction. We recommend that these areas be subject to supplementary archaeological reconnaissance survey to determine if subsurface cultural resources are present within lands that would be subject to ground disturbance during the construction or operation of the proposed solar facility. The recommended survey should adhere to SHPO's *Environmental Review Primer for*



Department of Economic and  
Community Development

**Connecticut**  
still revolutionary

*Hoffman - Proposed GRE East Lyme, LLC Antares Solar Field east of Walnut Hill Road, East Lyme.  
March 7, 2013  
(Page 2/2)*

*Connecticut's Archaeological Resources* and our office should be provided with the opportunity to review and comment on the completed survey.

The State Historic Preservation Office appreciates the opportunity to review and comment on this proposal and the CT Siting Council's consideration of historic resources in the exercise of its jurisdiction. We look forward to working with you and your clients on this important renewable energy project. If you have any questions concerning our comments please contact me at (860) 256-2761 or [Daniel.Forrest@CT.gov](mailto:Daniel.Forrest@CT.gov).

Sincerely,

A handwritten signature in blue ink that reads "Daniel T. Forrest".

Daniel T. Forrest  
Deputy State Historic Preservation Officer

CC: Bellantoni/OSA

## **EXHIBIT 6**

**The electronic versions of Exhibit 6  
(Site Drawings and Photographs)  
are attached in as separate folder  
entitled Site Drawings**