



September 23, 2019

Melanie Bachman, Esq.
Executive Director
Connecticut Siting Council
10 Franklin Square
Torrington, CT 06051

RE: Petition of Bloom Energy Corporation for a Declaratory Ruling for the Location and Construction of a 750-Kilowatt Fuel Cell Customer Side Distributed Resource at 540 Litchfield Street, Torrington, Connecticut

Dear Attorney Bachman:

We are submitting an original and fifteen (15) copies of the above-captioned Petition, together with the filing fee of \$625.

In the Petition, Bloom Energy Corporation (“Bloom”) requests the Connecticut Siting Council approve the location and construction of a 750-kilowatt fuel cell and associated equipment (the “Facility”). The Facility will be located at Charlotte Hungerford Hospital/Hartford Health Care (“CHH”), 540 Litchfield Street, Torrington, CT (the “Site”). Electricity generated by the Facility will benefit CHH, and any excess electricity will be exported to the electric grid. The Facility will be fueled by natural gas.

Should you have any questions, concerns, or require additional information, please contact me at (860) 839-8373.

Sincerely,
Bloom Energy

Justin Adams
justin.adams@bloomenergy.com
(860) 839-8373

**STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL**

PETITION OF BLOOM ENERGY	:	PETITION NO. _____
CORPORATION FOR A DECLARATORY	:	
RULING FOR THE LOCATION AND	:	
CONSTRUCTION OF A 750-KILOWATT FUEL	:	
CELL CUSTOMER-SIDE DISTRIBUTED	:	
RESOURCE AT 540 LITCHFIELD STREET,	:	
TORRINGTON, CT	:	SEPTEMBER 23, 2019

PETITION OF BLOOM ENERGY CORPORATION FOR A DECLARATORY RULING

Pursuant to Conn. Gen. Stat. §§ 4-176 and 16-50k(a) and Conn. Agencies Regs. § 16-50j-38 et seq., Bloom Energy Corporation (“Bloom”) requests that the Connecticut Siting Council (“Council”) approve by declaratory ruling the location and construction of a customer-side distributed resources project composed of three (3) ES-5 Bloom Energy Server solid oxide fuel cells and associated equipment (the “Facility”), providing 750 kilowatts (“kW”) (net) of power to the Charlotte Hungerford Hospital/Hartford HealthCare (“CHH”) property located at 540 Litchfield Street, Torrington, Connecticut (the “Site”). *See* Exhibits 1A and 1B. The Facility will be installed, maintained and operated by Bloom. It will be owned by a third-party financing source of Bloom under an agreement with CHH.

Conn. Gen. Stat. § 16-50k(a) provides that:

Notwithstanding the provisions of this chapter or title 16a, the council shall, in the exercise of its jurisdiction over the siting of generating facilities, approve by declaratory ruling . . . (B) the construction or location of any fuel cell, unless the council finds a substantial adverse environmental effect, or of any customer-side distributed resources project or facility . . . with a capacity of not more than sixty-five megawatts, as long as such project meets air and water quality standards of the Department of Energy and Environmental Protection....

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The proposed Facility will be a customer-side distributed resources facility under 65 MW that complies with the air and water quality standards of the State of Connecticut Department of Energy and Environmental Protection (“DEEP”). Bloom submits that no Certificate is required for the proposed Facility, as the installation would not have a substantial adverse environmental effect in the immediate vicinity of the Site or in the State of Connecticut.

I. COMMUNICATIONS

Correspondence and other communication regarding this petition should be directed to the following parties:

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II. DISCUSSION

A. Project Description and Purpose

The Facility will be a 750-kW customer-side distributed resource consisting of three (3) state-of-the-art Bloom Energy Servers and associated equipment. The Facility will be interconnected to an existing external electrical switchboard adjacent to the proposed fuel cell installation. *See Exhibits 1B and 2.*

The proposed Facility is a “customer-side distributed resources” project because it will be “a unit with a rating of not more than sixty-five megawatts [located] on the premises of an industrial end user within the transmission and distribution system including, but not limited to,

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fuel cells . . .” Conn. Gen. Stat. § 16-1(a)(34)(A). Further, the Connecticut Public Utilities Regulatory Authority (“PURA”) determined that Bloom’s Energy Server qualifies as a Class I renewable energy source fuel cell as defined in Conn. Gen. Stat. §16-1(a)(20)(A). Decision, Docket No. 12-02-09, September 12, 2012.

The purpose of the proposed project is to replace the average baseload of the Site with a Class I renewable energy source, achieve CHH’s sustainability goals, and improve reliability of electrical systems and equipment. The Facility has been sized to provide at least 90% of the average CHH baseload. Exhibit 3. Electricity generated by the Facility will be consumed primarily at the Site, and any excess electricity will be exported to the grid.

B. The Facility

The Facility will consist of three (3) 250 kW Bloom solid oxide fuel cell Energy Servers, model ES5-EA2AAN, and associated equipment to be located at the CHH property. As shown in Exhibit 2, the fuel cells and associated equipment will be installed in a new fenced asphalt service area west of the main hospital building and south of an existing parking lot. The associated equipment includes water deionizers, telemetry cabinets, disconnect switches and utility cabinets. The Facility is enclosed, factory-assembled and tested prior to installation on the Site. See Exhibit 3 for Bloom Energy Server Product Datasheets.

The operational life of the Facility is for the life of the 20-year contract and the solid oxide media in the fuel cells are exchanged at roughly five-year intervals. The Facility, the connections, and associated equipment will be installed in compliance with applicable building, plumbing, electrical, and fire codes. At the conclusion of the 20-year contract, CHH may renew the contract, return the Facility at no cost, or buy the Facility at a fair market value. If the

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Facility is to be removed at the end of the contract or if there is a default in the contract, the Energy Servers, associated equipment and components will be dismantled and removed, the asphalt surface will remain unless requested to be removed, and the site will be restored as nearly as practicable to its effective original condition.

The Facility will be capable of producing 750 kW of continuous, reliable electric power. The Facility will interconnect to the Site's distribution system and operate in parallel with the grid to provide the Site's electrical requirements. Any electricity generated in excess of the Site's requirement will be exported to the grid in accordance with the Eversource interconnection technical requirements. This installation will not have an uninterruptible power module ("UPM") and thus will not have any means to output power in a grid independent capacity at any time. The grid-parallel output will interconnect with the utility power system at the switchboard within the existing building.

Each Energy Server is equipped with a UL-1741 listed inverter set that complies with IEEE-1547 standards for interconnection of inverter-based distributed generation. It is UL Recognized under UL Category QIKH2 and UL File Number E310552. The interconnection will be provided from the existing cabinet within the nearby hospital building. The interconnection application for the Facility has been submitted to Eversource. The impact study agreement and cost determination are pending. The Facility will be fueled by natural gas supplied by Eversource.

The Facility will have extensive hardware, software and operator safety control systems, designed in accordance with American National Standards Institute and Canadian Standards Association for Stationary Fuel Cell Power Systems ("ANSI/CSA"). It is Listed by UL as a

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“Stationary Fuel Cell Power System” to ANSI/CSA FC1-2014 under UL Category IRGZ and UL File Number MH45102. The Facility would be controlled remotely and have internal sensors that continuously monitor system operation. If safety circuits detect a condition outside normal operating parameters, the fuel supply is stopped and individual system components are automatically shut down. A Bloom Energy Remote Monitoring Control Center (RMCC) operator can also remotely initiate any emergency sequence. An emergency stop alarm initiates an automatic shutdown sequence that puts the system into “safe mode” and causes it to stop exporting power. Bloom operators can assess different situations and take the necessary actions to mitigate impacts on the fuel cells during maintenance work, shutdowns or outages and enable them to come back online smoothly and efficiently when the disruption is completed. In addition, CHH personnel are provided with an Emergency Response Plan. Exhibit 4.

The Facility will be installed in accordance with NFPA 853¹. This standard provides fire prevention and fire protection requirements for safeguarding life and physical property associated with buildings or facilities that employ stationary fuel cell systems of all sizes. The risk of fire related to the operation of the Facility is therefore very low. Furthermore, in the Facility, natural gas is not burned; it is used in a chemical reaction to generate electricity. The natural gas is digested almost immediately upon entering the unit and is no longer combustible. As stated above, any variation in heat outside of the operational parameters will trigger an automatic shutdown of the energy server. Before commissioning, the fuel lines (pipe) are cleaned in accordance with Conn. Gen. Stat. Section 16-50ii².

¹ Standard for the Installation of Stationary Fuel Cell Power Systems, 2015 Edition

² Public Act 11-101, An Act Adopting Certain Safety Recommendations of the Thomas Commission

C. Existing Environment

i. The Site

The Facility would be installed in the south central portion of an approximately 119-acre parcel at 540 Litchfield Street, Torrington, CT. The Site is on the north side of Litchfield Street, within the Residential 6,000 SF Lot Size zoning district, and houses Charlotte Hungerford Hospital and related medical buildings and infrastructure. The northern and western portions of the Site are undeveloped woodland. Residential development surrounds the property to the west, north and east. Land to the south contains sparse residential development and a water tank. The closest residentially developed property is located approximately 713 feet to the east of the Facility.

The Facility was strategically placed to take advantage of the existing utility infrastructure for the hospital while minimizing impact on operational requirements, parking and traffic flow within the Site.

ii. Wildlife and Habitat

A review of the publicly available Natural Diversity Database (NDDB) June 2019 data shows that there are no known occurrences of state-listed species within ¼ mile of the proposed Site. *See Exhibit 6.*

iii. Wetlands and Watercourse

There are no identified wetlands or watercourses within the proposed location of the Facility. A portion of the host parcel is developed with several buildings, paved parking lots and landscaped areas; the remainder is undeveloped woodland. *See Exhibit 7.*

iv. Cultural Resources

The Facility is proposed in a previously disturbed area and the construction and operation of the Facility will therefore not have a substantial adverse effect on cultural (archaeological and historical) resources.

v. Flood Zones and Aquifer Protection Area

A review of the flood hazard mapping data from Federal Emergency Management Agency’s (“FEMA”) National Flood Insurance Program (“NFIP”) has shown the Facility would be located within Zone X, an area of Minimal Flood Hazard. *See Exhibit 8.*

The Site was also reviewed for proximity to Aquifer Protection Areas. According to GIS data provided by CTDEEP, the closest Aquifer Protection Area is located approximately 3.4 miles to the northwest of the proposed Facility.

D. Environmental Effects and Mitigation

i. Natural Gas Desulfurization Process

The first step in the production of electricity in a Bloom Energy server is desulfurization – the removal of the sulfur compounds that have been added to the natural gas as an odorant by the natural gas suppliers. This step occurs in the desulfurization unit (“Desulf Unit”), a canister that contains a filter made for this purpose. Sulfur is not “produced” in this process, but is separated from the natural gas in which it was contained. In this process, trace levels of sulfur oxides and other naturally occurring elements may also absorb to the filter.

The desulfurization process takes place entirely within the Desulf Unit. Because they are built to hold natural gas, their structural integrity is essential. That integrity is assured by around the clock monitoring of the Energy Servers to detect any leak. Were there a leak, the Server

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(including the desulfurization operation) would shut down automatically. The structural integrity and leak prevention continue after the desulfurization canisters are removed from service. At that point, the entry and exit points for the natural gas automatically seal shut. The desulfurization canister remains sealed and is not opened at the Site, or anywhere in the State of Connecticut. No gaseous substances are released or vented at any point during the desulfurization process.

The Desulf Unit contains a composite copper catalyst that includes copper. This catalyst removes non-hazardous sulfur odorants from the natural gas feedstock. The sulfur, if not removed, would rapidly and irreversibly damage the fuel cells, bringing the production of electricity to a halt. Although the Desulf Unit is not intended to capture benzene or any other hazardous material, a small amount of benzene adheres to the adsorbent in the Unit.

The Desulf Units are periodically removed from service and replaced with Units containing fresh composite copper catalyst. Upon disconnection, the Desulf Unit automatically seals shut—to assure there is no release of natural gas. The Desulf Units are certified by the U.S. Department of Transportation (DOT) as meeting the hazardous waste shipment standards of the United Nations, DOT, IATA, ICAO and IMO Hazardous Materials Distribution and Packaging requirements.

The spent units are transported to ShoreMet, L.L.C. (ShoreMet) in Indiana, a facility where they are opened, the contents are removed and copper is used as an ingredient in various products. The Desulf Units are then cleaned, refilled, and sent back to the field for reuse.

The Indiana Department of Environmental Management (IDEM) reviewed ShoreMet's management of Bloom's spent desulfurization units. IDEM issued a letter concluding that the spent desulfurization units sent to ShoreMet are excluded from hazardous waste requirements

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because the contents (i.e., spent media) are used to make copper products (Code of Federal Regulation, title 40, section 261.2(e)(1)(i)). The US Environmental Protection reviewed IDEM's findings and agreed. The California Department of Toxic Substances Control (DTSC) reviewed these decisions and concluded that the Desulf Units are excluded recyclable material (ERM) under California Health and Safety Code, section 25143.2, subsection (b). There are a number of conditions that apply to this exemption; Bloom satisfies those conditions.

ii. Water, Heat and Air Emissions

The construction and operation of the Facility will comply with DEEP's air and water quality standards and will not have a substantial adverse environmental effect.

With respect to water discharges, the Facility is designed to operate without water discharge under normal operating conditions. There are no connections or discharge points to the proposed Facility. Additionally, the Facility would use no water during normal operation beyond a 376-gallon injection at start-up.

Heat generated by the proposed Facility is used internally to increase the electrical efficiency of the fuel cell system. As a result, there is no useful waste heat generated by the fuel cell. The minimal amount of thermal load present at the Site would preclude the efficient deployment of a combined heat and power application.

Conn. Agencies Regs. § 22a-174-42, which governs air emissions from new distributed generators, exempts fuel cells from air permitting requirements. Accordingly, no permits, registrations, or applications are required based on the actual emissions from the Facility³. Even though the fuel cell systems are exempt from the emissions requirements, Bloom Energy fuel

³ See Conn. Agencies Regs. §§ 22a-174-42(b) and (e).

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cells do meet the emissions standards of Section 22a-174-42. Per Section 22a-174-42(e)(1)(A) a certification by the California Air Resources Board (CARB) pursuant to Title 17, sections 94200 through 94214 of the California Code of Regulations meets the requirements of Conn. Agencies Regs. § 22a-174-42. The Bloom Energy fuel cells are certified under the CARB distributed generation program. A current list of certified applications is provided on the CARB's distributed generation certification website (<http://www.arb.ca.gov/energy/dg/eo/eo-current.htm>).

The Facility will also meet state criteria thresholds for all greenhouse gases defined in Section 22a-174-1(49). Table 1 lists thresholds set by the Low and Zero Emissions Renewable Energy Credit (LREC/ZREC) program⁴, and compares them to emissions generated from the proposed Facility. By virtue of the non-combustion process the Bloom Energy fuel cells virtually eliminate NOx, SOx, CO, VOCs and particulate matter emissions from the energy production process. Similarly, there are no CH₄, SF₆, HFC or PFC emissions. The CH₄ is broken down in the reforming process. Reforming is the type of process where if you have sufficient catalyst, the reaction can go all the way to completion. That is the case for the Bloom Energy Server. The fuel is reformed in the hot box – with a significant excess catalyst for reaction.

Table 1: Connecticut Thresholds for Greenhouse Gases

Emission Type	Bloom Output	LREC allowance
Nitrous Oxides (NOx)	<0.01 lbs/MWh	0.07 lbs/MWh
Carbon Monoxide (CO)	<0.05 lbs/MWh	0.10 lbs/MWh
Sulfur Oxides (SOx)	Negligible	Not Listed
Volatile Organic Compounds (VOCs)	<0.02 lbs/MWh	0.02 lbs/MWh
Carbon Dioxide (CO ₂) ⁵	679-833 lbs/MWh	Not Listed

⁴ Sec. 16-244t

⁵ Carbon Dioxide is measured at Bloom's stated lifetime efficiency level of 53-60%

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The proposed Facility will ultimately displace less efficient fossil fueled marginal generation on the ISO New England system. Based upon US Environmental Protection Agency (EPA) “eGrid” data, the proposed facility is expected to reduce carbon emissions by more than 25% while essentially eliminating local air pollutants like NOx, SOx, and particulate matter.

iii. Sound Levels

The nearest parcel boundary is with a property located to the south of the host property and defined as a Class A noise zone⁶. The results of the sound model predicting noise levels at that property boundary, located at a distance of approximately 159 feet, are provided as Exhibit 9. The proposed Facility would be defined as “Scenario 2” in the model. Scenario 2 models noise for a Bloom Energy Server installed with no structures behind it to reflect sound from either side. The results of the Scenario 2 sound model at 159 feet are 41.7 dBA, which is in compliance with noise criteria set forth in Connecticut regulations for the Control of Noise⁷. Neither the City of Torrington nor the Torrington Area Health District regulate noise.

iv. Visual Effects

The visual effect of the Facility will be minimal. The Facility will be installed adjacent to a parking lot in an expanded fenced area west of the of the main hospital building. In general, any off-site visibility from the north and west would be masked by distance and mature woodland; existing buildings and vegetation would minimize visibility from the south and east. The addition of the Facility is consistent with the existing development on the property.

⁶ Conn. Agencies Regs. Sec. 22a-69-2.3. Noise zone standards

⁷ Conn. Agencies Regs. Sec. 22a-69-3.5. Noise zone standards

E. Project Construction and Maintenance

Bloom anticipates construction to start in the second quarter of 2020 with 12-14 weeks of total construction time (4 weeks of site prep, 4 weeks of installation, and 4 weeks of commissioning).

During construction, appropriate erosion and sedimentation (E&S) controls will be installed and areas of disturbance will be promptly stabilized in order to minimize the potential for soil erosion and the flow of sediments off site. Temporary E&S control measures will be maintained and inspected throughout construction to ensure their integrity and effectiveness. The temporary E&S control measures will remain in place until the work is complete and all disturbed areas have been stabilized. No effects to drainage patterns or stormwater discharges are anticipated. Due to the limited disturbance required for the Facility's installation, no construction-related storm water permits will be required.

Soils that are generated during construction activities would not be stored or stockpiled inside of wetlands or adjacent to a watercourse, and appropriate E&S control measures would be employed and maintained for any temporary soil stockpiles. Any excavated soils compatible for reuse will be used as backfill in proximity to the same excavation area from where it originated. Any excess excavated soils not suitable for reuse would be trucked off-site and managed in accordance with applicable regulations. Rock, concrete and other debris would be removed and trucked off-site.

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Areas affected by construction would be re-graded as practical and stabilized using revegetation or other measures before removing temporary E&S controls. Construction-related impacts will therefore be minimal.

III. COMMUNITY OUTREACH

Bloom has provided notice of this petition via certificate of mailing to abutting property owners and appropriate municipal officials and governmental agencies to whom notice is required to be given pursuant to Conn. Agencies Regs. § 16-50j-40(a)⁸. A copy of the notice letter, a service list and documentation of mailing are provided in Exhibit 10 and the corresponding abutters map is provided as Exhibit 11.

A representative of Bloom contacted Mr. Martin J. Connor, City Planner of the City of Torrington and provided plans for review. Mr. Connor indicates that the proposed location is acceptable and that the City is supportive of this alternative energy source. *See Exhibit 12.*

IV. BASIS FOR GRANTING OF THE PETITION

Under Conn. Gen. Stat. § 16-50k(a), the Council is required to approve by declaratory ruling the construction or location of a customer-side distributed resources project or facility with a capacity of not more than 65 MW, as long as the facility meets DEEP air and water quality standards. The proposed Facility meets each of these criteria. The Facility is a “customer-side distributed resources” project, as defined in Conn. Gen. Stat. § 16-1(a)(34)(A),

⁸ Conn. Agencies Regs. § 16-50j-40(a) requires that “[p]rior to submitting a petition for a declaratory ruling to the Council, the petitioner shall, where applicable, provide notice to each person other than the petitioner appearing of record as an owner of property which abuts the proposed primary or alternative sites of the proposed facility, each person appearing of record as an owner of the property or properties on which the primary or alternative proposed facility is to be located, and the appropriate municipal officials and government agencies [listed in Section 16-50l of the Connecticut General Statutes].”



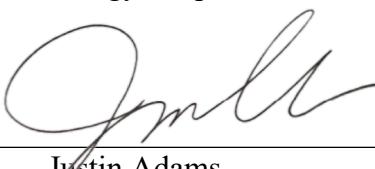
because the Facility is “a unit with a rating of not more than sixty-five megawatts [located] on the premises of a retail end user within the transmission and distribution system including, but not limited to, fuel cells” and, as demonstrated herein, will meet DEEP air and water quality standards. In addition, as demonstrated above, the construction and operation of the Facility will not have a substantial adverse environmental effect in the State of Connecticut.

V. CONCLUSION

For the reasons stated above, Bloom respectfully requests that the Council approve the location and construction of the Facility by declaratory ruling.

Respectfully submitted,
Bloom Energy Corporation

By:



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San Jose, CA 95134
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Email: justin.adams@bloomenergy.com

EXHIBITS

- Exhibit 1A: Site Location Map
- Exhibit 1B: Site Schematic
- Exhibit 2: Site and Permit Plans
- Exhibit 3: Bloom Energy Server System Background Documentation
- Exhibit 4: Emergency Response Plan
- Exhibit 5: Photos of the Proposed Location
- Exhibit 6: DEEP Coastal Boundary, Natural Diversity Data Base (NDDB), Critical Habitats
- Exhibit 7: DEEP Wetlands and Watercourse Map
- Exhibit 8: FEMA Map
- Exhibit 9: Sound Model
- Exhibit 10: Notice Pursuant to Conn. Agencies Regs. § 16-50j-40(a)
- Exhibit 11: Abutters Map
- Exhibit 12: Municipal Consultation

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Exhibit 1A



Legend

Subject Property

Exhibit 1A
Site Location Map

Proposed Bloom Energy Facility
Hartford HealthCare Property
540 Litchfield Street
Torrington, CT 06790

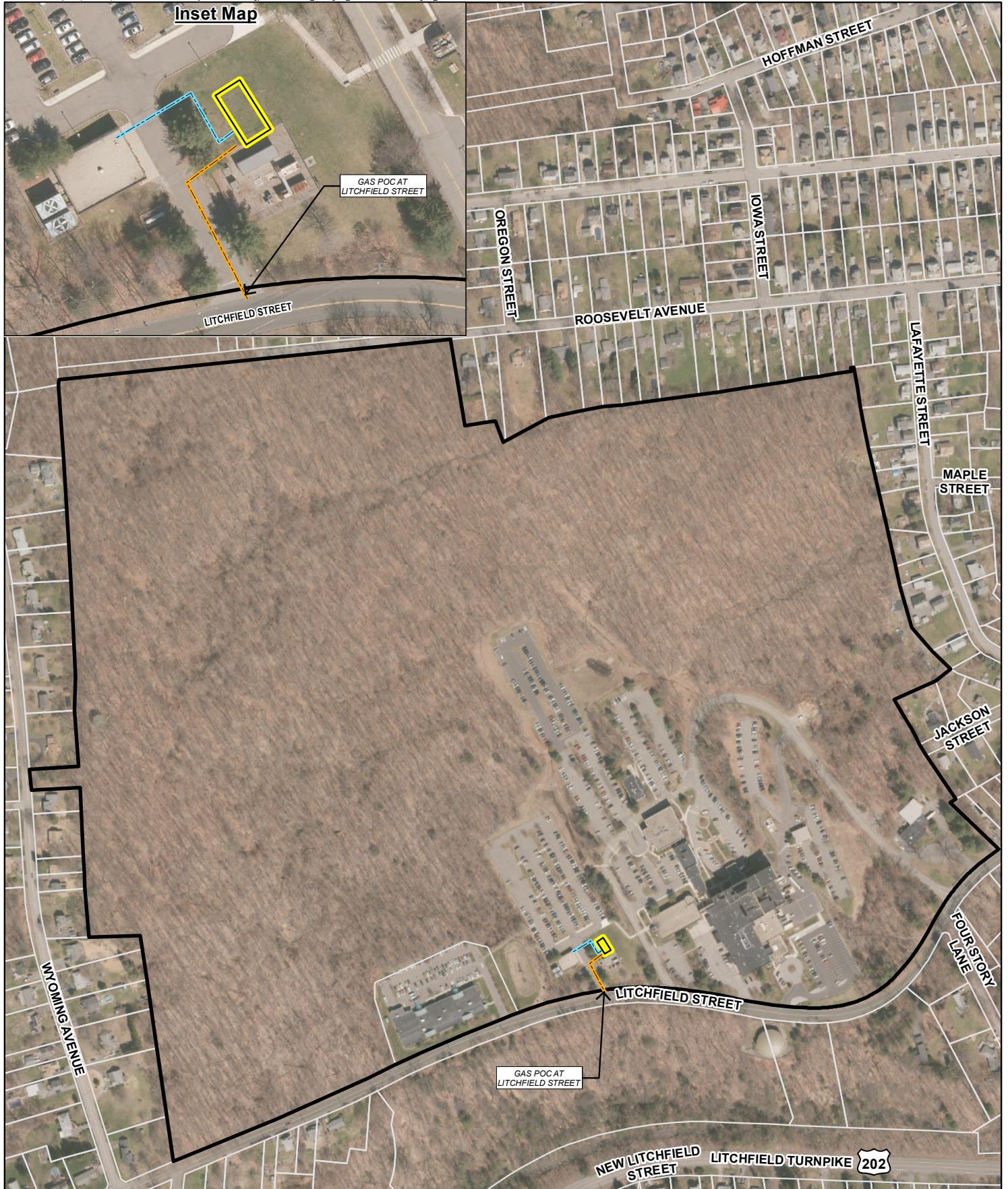
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1,000 500 0 1,000
Feet

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Exhibit 1B

**Legend**

- Subject Property
- Approximate Assessor Parcel Boundary (CTDEEP)
- New Energy Servers
- New Gas Line
- New Water Line

Map Notes:

Base Map Source: 2016 Aerial Photograph (CTEDCO)

Map Scale: 1 inch = 400 feet

Map Date: August 2019

Exhibit 1B Site Schematic

Proposed Bloom Energy Facility
Hartford HealthCare Property
540 Litchfield Street
Torrington, CT 06790



400 200 0 400
Feet

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Exhibit 2

PRIOR TO COMMENCING ANY EXCAVATION OR DUGOUT, THE CONTRACTOR SHALL CONTACT LOCAL UTILITIES, INCLUDING CULT CABLES AND TELEPHONE, REQUEST A MARK OUT AND AS NECESSARY RETAIN THE SERVICES OF A PRIVATE UTILITY MARK OUT COMPANY TO PERFORM SUCH MARK OUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND VERIFY THE LOCATION OF UTILITIES, IRRIGATION, SITE LIGHTING, AND ELECTRICAL LINES IN THE VICINITY OF THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR ANY AND ALL UTILITIES DAMAGED BY THE CONTRACTOR'S OPERATION AT NO ADDITIONAL EXPENSE.



Know what's below.
Call before you dig.



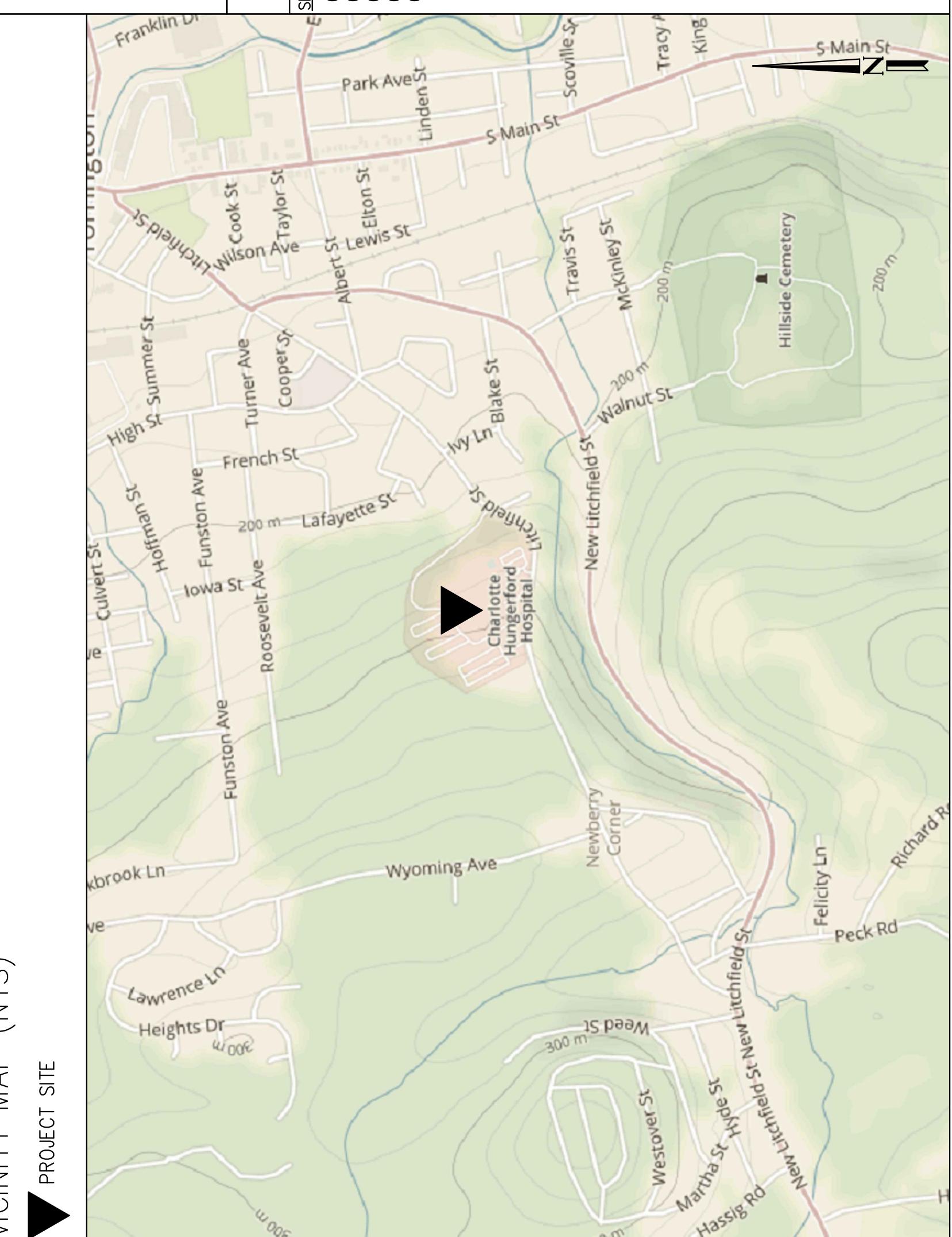
540 LITCHFIELD STREET
TORRINGTON, CT 06790

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SITE INFORMATION

PERMITTING INFORMATION		CODES		PROJECT DESCRIPTION	
PARCEL INFORMATION	CHARLOTTE HUNTERFORD HOSPITAL	BUILDING	2003 INTERNATIONAL BUILDING CODE	THIS PROJECT CONSISTS OF THE INSTALLATION OF THREE (3) BLOOM ENERGY ES5 OUTDOOR NATURAL GAS CLEAN ENERGY SERVER. THE WORK INCLUDES ALL ITEMS LISTED IN THE SCOPE OF WORK.	
PROPERTY OWNER	LITCHFIELD	ENERGY	2009 INTERNATIONAL ENERGY CONSERVATION CODE	Q. WHAT IS A BLOOM ENERGY SERVER? A: THE BLOOM ENERGY SERVER IS A STATIONARY FUEL CELL POWER SYSTEM.	
COUNTY TAX MAP #	112/204/2005	PLUMBING	2003 INTERNATIONAL PLUMBING CODE	Q. IS THE BLOOM ENERGY SERVER PRODUCT LISTED OR CERTIFIED? A: YES. ES-5XXX SERIES.	
PROPERTY DESCRIPTION	CITY OF TORRINGTON	FUEL GAS	2005 INTERNATIONAL MECHANICAL CODE	• THE FUEL CELL IS LISTED AS A "STATIONARY FUEL CELL POWER SYSTEM" TO ANSI/CSA AMERICA FC 1-2004.	
PROPERTY TYPE	CITY OF TORRINGTON	ELECTRICAL	2005 NATIONAL ELECTRIC CODE	• IT IS UL LISTED UNDER UL CATEGORY IRG2 AND UL FILE NUMBER MH45102.	
PROPERTY AREA*	TORRINGTON FIRE DEPARTMENT			• FUEL CELLS ARE COVERED IN ARTICLE 992 OF THE NEC (NPPA 70). FUEL CELLS HAVE BEEN INCORPORATED INTO THE LES5 SERIES.	
DISTURBED AREA	5,262.84 SF			• THE FUEL CELL IS LISTED AS A "STATIONARY FUEL CELL POWER SYSTEM" TO ANSI/CSA FC 1-2014.	
PARKING INFORMATION	0			Q. WHAT IS THE MODEL NUMBER OF THIS PRODUCT? A: PLEASE SEE THE DATA SHEET PROVIDED WITH THIS FAQ.	
REMOVED PARKING	0			Q. WHAT IS THE NOISE LEVEL OF THE FUEL CELL SYSTEM? A: THE FUEL CELL MUST BE SHUT DOWN LOCALLY IN CASE OF AN EMERGENCY?	
ADDED PARKING	0			Q. CAN THE FUEL CELL SYSTEM BE SHUT DOWN LOCALLY IN CASE OF AN EMERGENCY—FOR EXAMPLE, IN CASE OF A BUILDING FIRE OR ELECTRICAL HAZARD?—TWO SHUTOFF CONTROLS ARE INSTALLED AT THE FACILITY EXTERNAL TO THE SYSTEM. THE LOCATIONS OF THESE TWO CONTROLS SHOULD BE KNOWN TO THE FACILITIES MANAGER BEFORE OPERATION AND SHOULD BE NOTED ON THE SITE DIAGRAM THAT IS CREATED FOR EACH SITE DURING INSTALLATION. THE TWO SHUTOFFS ARE: (1) THE ELECTRICAL DISCONNECT SWITCH AND (2) THE MANUAL NATURAL GAS SHUTOFF VALVE.	
TYPE	5,262.84 SF			Q. WHAT HAPPENS TO THE FUEL CELL SYSTEM WHEN THE UTILITY POWER SHUTS DOWN? A: IF UTILITY PROVIDED POWER IS LOST FOR ANY REASON, THE FUEL CELL SYSTEM WILL ALSO STOP PRODUCING POWER RESTORED.	
NATURAL GAS	CITY OF TORRINGTON			Q. WHAT HAPPENS TO THE FUEL CELL SYSTEM WHEN THE UTILITY GAS SHUTS DOWN? A: IF THE UTILITY GAS IS INTERRUPTED, THE FUEL CELL SYSTEM WILL AUTOMATICALLY SHUT DOWN AS WELL.	
ELECTRICAL	540 LITCHFIELD STREET			Q. CAN THE FUEL CELL SYSTEM BE SHUT DOWN AUTOMATICALLY SHUT DOWN IN CASE OF AN EMERGENCY? A: YES. IF THE FUEL CELL MUST BE SHUT DOWN RIGHT AWAY—for example, in case of a building fire or electrical hazard—the two shutoff controls are installed at the facility external to the system. The locations of these two controls should be known to the facilities manager before operation and should be noted on the site diagram that is created for each site during installation. The two shutoffs are: (1) the electrical disconnect switch and (2) the manual natural gas shutoff valve.	
WATER	TORRINGTON, CT 06790			Q. WHAT HAPPENS TO THE FUEL CELL SYSTEM WHEN THE UTILITY POWER SHUTS DOWN? A: THE FUEL CELL SYSTEM WILL REMAIN IN STAND-BY MODE UNTIL IT AUTOMATICALLY SENSES THE UTILITY GRID HAS BEEN RESTORED.	

VICINITY MAP (NTS) PROJECT SITE



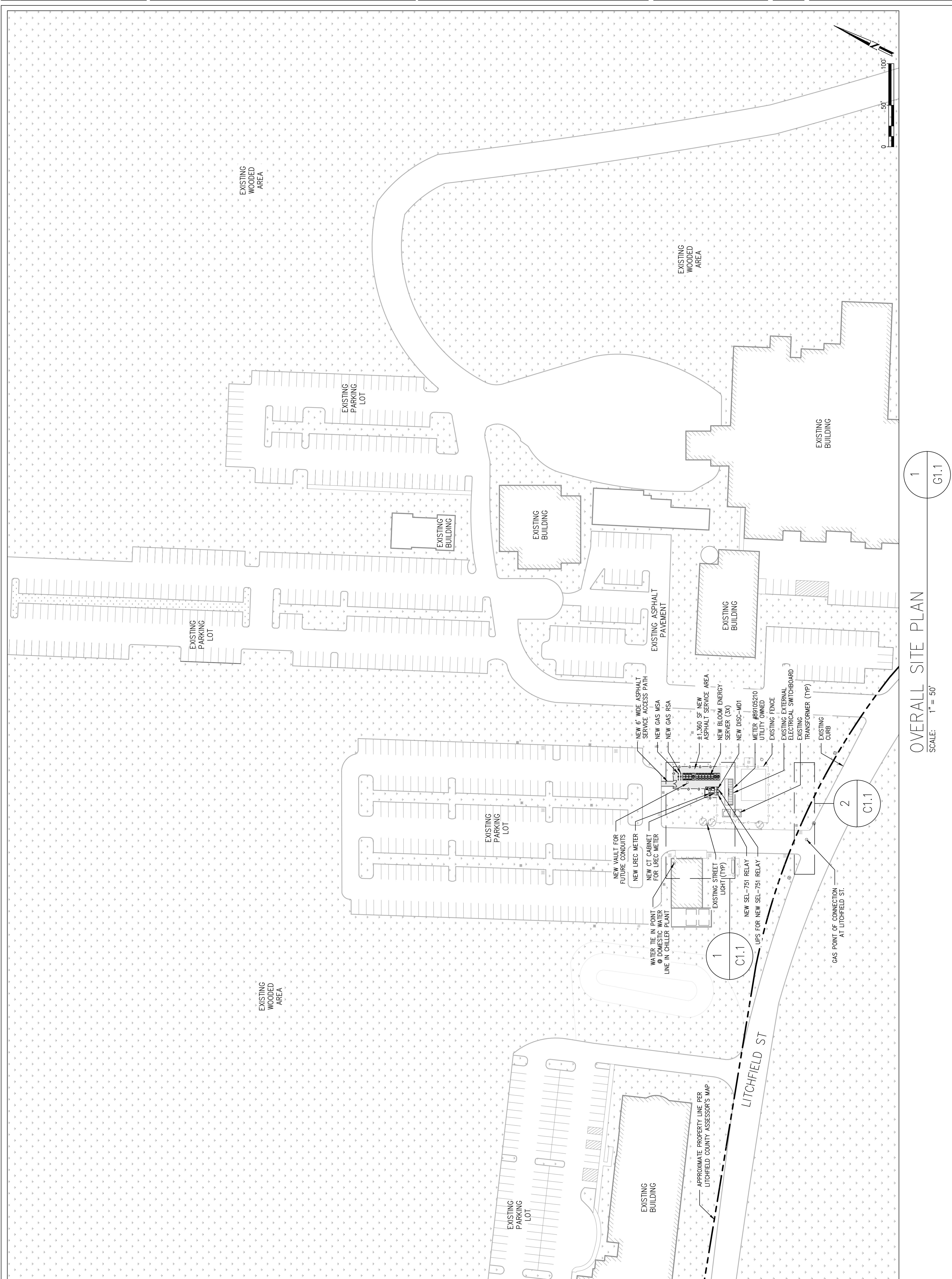
BLOOM ENERGY FAQ's

CUSTOMER SITE
HARTFORD HEALTHCARE
540 LITCHFIELD STREET
TORRINGTON, CT 06790



Q.	A.
Q. WHAT IS A BLOOM ENERGY SERVER? A: THE BLOOM ENERGY SERVER IS A STATIONARY FUEL CELL POWER SYSTEM.	
Q. IS THE BLOOM ENERGY SERVER PRODUCT LISTED OR CERTIFIED? A: YES. ES-5XXX SERIES.	
Q. WHERE ARE FUEL CELLS COVERED IN THE NATIONAL ELECTRICAL CODE (NEC)? A: IT IS UL LISTED UNDER UL CATEGORY IRG2 AND UL FILE NUMBER MH45102.	
Q. WHAT IS THE MODEL NUMBER OF THIS PRODUCT? A: PLEASE SEE THE DATA SHEET PROVIDED WITH THIS FAQ.	
Q. WHAT IS THE NOISE LEVEL OF THE FUEL CELL SYSTEM? A: THE FUEL CELL MUST BE SHUT DOWN LOCALLY IN CASE OF AN EMERGENCY?	
Q. DO BLOOM ENERGY FUEL CELL SYSTEMS PROVIDE LIFE SAFETY POWER, EVEN WHEN A PUMP IS INSTALLED? WE ARE NOT ALTERING WHETHER LIFE SAFETY IS CURRENTLY PRESENT AT THE FACILITY.	
Q. IS THE BLOOM ENERGY FUEL CELL SYSTEM TAMPER-PROOF? A: YES. THE FUEL CELLS ARE SECURED IN PLACE AND DOORS ARE SECURED AND LOCKED. ONLY BLOOM SERVICE PERSONNEL HAVE THE KEYS AND CAN BE ON-SITE WITHIN 24 HOURS.	
Q. WHAT HAPPENS TO THE FUEL CELL SYSTEM IF THE FUEL CELLS SHUT DOWN? A: NO. WE ARE NOT LIFE SAFETY AND DO NOT PROVIDE LIFE SAFETY POWER. EVEN WHEN A PUMP IS INSTALLED WE ARE NOT ALTERING WHETHER LIFE SAFETY IS CURRENTLY PRESENT AT THE FACILITY.	
Q. WHAT HAPPENS TO THE FUEL CELL SYSTEM WHEN THE UTILITY POWER SHUTS DOWN? A: THE FUEL CELL SYSTEM WILL REMAIN IN STAND-BY MODE UNTIL IT AUTOMATICALLY SENSES THE UTILITY GRID HAS BEEN RESTORED.	
Q. WHAT HAPPENS TO THE FUEL CELL SYSTEM WHEN THE UTILITY GAS SHUTS DOWN? A: IF THE UTILITY GAS IS INTERRUPTED, THE FUEL CELL SYSTEM WILL AUTOMATICALLY SHUT DOWN AS WELL.	
Q. CAN THE FUEL CELL SYSTEM BE SHUT DOWN LOCALLY IN CASE OF AN EMERGENCY? A: YES. IF THE FUEL CELL MUST BE SHUT DOWN RIGHT AWAY—for example, in case of a building fire or electrical hazard—the two shutoff controls are installed at the facility external to the system. The locations of these two controls should be known to the facilities manager before operation and should be noted on the site diagram that is created for each site during installation. The two shutoffs are: (1) the electrical disconnect switch and (2) the manual natural gas shutoff valve.	
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GENERAL CONSTRUCTION NOTES		ABBREVIATIONS		SITE PLAN SYMBOLS		LINE TYPES	
1. IN THE EVENT OF DISCREPANCIES BETWEEN THE DRAWINGS, SPECIFICATIONS, OR SCOPE OF WORK SUMMARY IN THIS PACKAGE, NOTIFY BLOOM ENERGY IMMEDIATELY. REFERENCE SEPARATE BLOOM ENERGY DOC-1008337 FOR ASSOCIATED BLOOM ENERGY SERVER INSTALLATION SPECIFICATIONS.	DEGREES CELSIUS	DEGREES FAHRENHEIT	DOOR	UNKNOWN UTILITY – UNDERGROUND	NEW	EXISTING	DEMOLISH
2. THE EXISTING SITE PLAN FEATURES ARE BASED ON DESIGN DRAWINGS, AS-BUILT PLANS, AERIAL PHOTOGRAPHS AND FIELD MEASUREMENTS UNLESS OTHERWISE NOTED. THE LOCATIONS OF ALL FEATURES AND STRUCTURES ON THE PLANS ARE APPROXIMATE.	AMPS	AMPS	BUILDING HATCH	COMMUNICATIONS UTILITY – OVERHEAD	— UTL —	— UTL —	— UTL —
3. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL WORK IS DONE IN ACCORDANCE WITH CURRENT APPLICABLE NATIONAL, STATE AND LOCAL CODES, ORDINANCES, AND REQUIREMENTS. IF NOT SPECIFIED IN THESE DRAWINGS, OR CALLED FOR IN THE SPECIFICATIONS, MORE STRIGENT REQUIREMENTS MAY BE SPECIFIED IN SITUATIONS WHERE THERE IS A CONFLICT BETWEEN THE MINIMUM REQUIREMENTS AND THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND VERIFY THE LOCATION OF UTILITIES, IRRIGATION, SITE LIGHTING, AND ELECTRICAL LINES IN THE VICINITY OF THE CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY AND ALL UTILITIES DAMAGED BY THE CONTRACTOR'S OPERATION AT NO ADDITIONAL EXPENSE.	AC	ALTERNATING CURRENT, ASPHALT CONCRETE AUTHORITIES HAVING JURISDICTION	COMMUNICATIONS UTILITY – UNDERGROUND	— OCU —	— OCU —	— OCU —	— OCU —
4. THE CONTRACTOR SHALL PROTECT ALL EXISTING ITEMS AND FACILITIES TO REMAIN THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL REPAIR AND/OR REPLACE, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEMS AND FACILITIES THAT ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS, TO THE SATISFACTION OF PROPERTY OWNER AND BLOOM ENERGY.	AC5	AC POWER SECTION	ELECTRICAL UTILITY – OVERHEAD	— UCU —	— UCU —	— UCU —	— UCU —
5. UNLESS DELIVERY IS SPECIFIED BY BLOOM ENERGY TO THE JOB SITE, CONTRACTOR SHALL DELIVER ALL EQUIPMENT, DAMAGE-FREE TO THE JOB SITE.	AHU	AIR HANDLING UNIT	ELECTRICAL UTILITY – UNDERGROUND	— OEU —	— OEU —	— OEU —	— OEU —
6. PRIOR TO COMMENCING ANY EXCAVATION OR DEMOLITION, THE CONTRACTOR SHALL CONTACT LOCAL UTILITIES, INCLUDING BUT NOT LIMITED TO, ELECTRICAL, GAS, WATER, CABLE, AND TELEPHONE. CONTRACTOR SHALL REQUEST UTILITY MARK OUT AND AS NECESSARY RETAIN THE SERVICES OF PRIVATE UTILITY MARK OUT COMPANY TO PERFORM SUCH MARK OUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND VERIFY THE LOCATION OF UTILITIES, IRRIGATION, SITE LIGHTING, AND ELECTRICAL LINES IN THE VICINITY OF THE CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY AND ALL UTILITIES DAMAGED BY THE CONTRACTOR'S OPERATION AT NO ADDITIONAL EXPENSE.	AL	ALUMINUM	GAS UTILITY – UNDERGROUND	— UGU —	— UGU —	— UGU —	— UGU —
7. BLOOM ENERGY WILL FURNISH THE CONTRACTOR WITH COPIES OF ALL PERMITS AND PROVIDE THE CONTRACTOR ANY CONDITIONS OF APPROVAL FROM THE PLANNING AND ZONING JURISDICTION AS REQUIRED FOR INSPECTIONS.	ASTM	AMERICAN SOCIETY OF THE INTERNATIONAL STANDARD TESTS AND SPECIFICATIONS	WATER UTILITY – UNDERGROUND	— UWU —	— UWU —	— UWU —	— UWU —
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING JURISDICTIONS AS REQUIRED FOR INSPECTIONS.	ATM	ATMOSPHERE	SANITARY SEWER UTILITY	— SSU —	— SSU —	— SSU —	— SSU —
9. THE CONTRACTOR SHALL PROVIDE BARRICADES AND SAFETY SIGNS FOR OSHA REQUIREMENTS.	ATWS	AUTOMATIC TRANSFER SWITCH	STORM WATER UTILITY	— SWU —	— SWU —	— SWU —	— SWU —
10. THE CONTRACTOR IS RESPONSIBLE FOR OVERALL CONSTRUCTION SITE CLEARNESS, INCLUDING PROVISIONS OF A DEBRIS BOX WITH WEEKLY SERVICING, REMOVAL OF ALL CONTRACTOR/SUBCONTRACTOR REFUSE AND DEBRIS, AND SWEEPING OF THE ENTIRE YARD AREA AT THE COMPLETION OF THE WORK.	BC	BASE COURSE	MANHOLE COVER	COMMUNICATIONS FEEDER – ABOVE GROUND	— C —	— C —	— C —
11. UNLESS STATED OTHERWISE IN THE SCOPE OF WORK SUMMARY, ALL OTHER PROCEDURES, TESTING, MATERIALS AND EQUIPMENT SHOWN ON THE PLANS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.	BMPs	BEST MANAGEMENT PRACTICES	FIRE HYDRANT	COMMUNICATIONS FEEDER – UNDERGROUND	— OC —	— OC —	— OC —
12. THE PLAN VIEW DRAWINGS PROVIDED IN THIS SET INCLUDE A ROUGH SCALE REPRESENTATION OF EXISTING AND PROPOSED CONDITIONS AND SHOULD NOT BE USED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS ON SITE. ALL DRAWINGS MARKED "NTS" HAVE NO RELATIVE SCALE AND ONLY LISTED DIMENSIONS SHOULD BE USED.	C	CAST IN PLACE CONDUIT	ROOF DRAIN (BELOW GROUND/ABOVE GROUND)	ELECTRICAL FEEDER – ABOVE GROUND	— UC —	— UC —	— UC —
13. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF DAMAGE TO THE WORK OF OTHER TRADES CAUSED BY THEIR OPERATIONS. ALL REPAIRS SHALL BE PERFORMED AT THE COST OF THE CONTRACTOR OF THE TRADE WHOSE WORK WAS DAMAGED.	CL	CAST IN PLACE CONTROL JOINT	SLOPE DIRECTION	ELECTRICAL FEEDER – UNDERGROUND	— E —	— E —	— E —
14. THE CONTRACTOR SHALL NOTIFY BLOOM ENERGY IF SITE CONDITIONS OR DIMENSIONS DISAGREE WITH INFORMATION SHOWN ON THE DRAWINGS. WORK NOT TO PROCEED UNTIL SUCH DIFFERENCES ARE RESOLVED.	CLR	CLEAR	DISCONNECT SWITCH	FIBER OPTIC – ABOVE GROUND	— OE —	— OE —	— OE —
15. THE CONTRACTOR SHALL EXAMINE THE SITE AND FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS, AND BE PREPARED TO PERFORM THE WORK WITHIN THE EXISTING CONDITIONS.	CONC	CONCRETE	OVERHEAD ROLL UP DOOR	FIBER OPTIC – UNDERGROUND	— UE —	— UE —	— UE —
16. THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL INSPECT WORK PREVIOUSLY PREPARED OR INSTALLED BY OTHERS BEFORE APPLYING MATERIALS OR FINISHES, NOTIFY BLOOM ENERGY, DO NOT PROCEED UNTIL THE DEFECTIVE WORK HAS BEEN CORRECTED.	CONTRACTOR	CONTRACTOR	DETAIL CALL OUT	GAS PIPING – ABOVE GROUND	— FO —	— FO —	— FO —
17. THE CONTRACTOR IS RESPONSIBLE FOR FAULTY MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER FINAL PROJECT PAYMENT IS MADE. ANY DEFECT OR DAMAGE FOUND OPEN AFTER THE FINAL PAYMENT, CERTIFICATION AND PAYMENT FOR THIS PROJECT WILL BE REIMBURSED AT THE CONTRACTOR'S EXPENSE. REPAIRS OR REPAIRMENTS REQUIRED WILL SUBSEQUENTLY BE WARRANTED FOR ONE YEAR AFTER WORK COMPLETION AND ACCEPTANCE.	CU	COPPER	REVISON CONTROL SYMBOL	WATER PIPING – ABOVE GROUND	— OFO —	— OFO —	— OFO —
18. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES AND OSHA REQUIREMENTS, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS.	DC	DIRECT CURRENT	DETAIL SECTION	PETROLEUM PIPING – ABOVE GROUND	— P —	— P —	— P —
19. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY LANDSCAPED AREAS TO PRE-CONSTRUCTION CONDITION AS ASSESSED BY THE PROPERTY OWNER OR CUSTOMER. APPROVAL OF AN ACCEPTABLE STATE IS REQUIRED TO CONFIRM COMPLETION OF WORK. THE CONTRACTOR SHALL SUBMIT A POST CONSTRUCTION WALK TO EVALUATE THE LANDSCAPING FUNCTIONALITY WITH THE CUSTOMER LANDSCAPER.	DI	DEIONIZED	DISC-XX	PETROLEUM PIPING – UNDERGROUND	— UP —	— UP —	— UP —
20. GENERAL HOUSEKEEPING OF THE SITE, INCLUDING SWEEPING AND CONTROL OF SEDIMENT, TRASH, AND DEBRIS WILL BE PERFORMED DAILY OR IMMEDIATELY UPON THE OCCURRENCE.	EDM	ELECTRICAL DISTRIBUTION MODULE	DISC-XX	CURBING	— /— /— /— /—	— /— /— /— /—	— /— /— /— /—
21. DURING CONSTRUCTION ALL EXITS AND DOORWAYS MUST REMAIN UNOBSTRUCTED.	ELEV	ELEVATION	DISC-XX	PARKING	— o — o — o —	— o — o — o —	— o — o — o —
22. THE TYPES, LOCATION, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS WILL REVEAL THE TYPES, EXTENTS, SIZED, LOCATIONS AND DEPTHS OF SUCH GROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY BLOOM ENERGY IF WORK CANNOT PROCEED AS PROPOSED.	EMT	ELECTRICAL METAL TUBING	DISC-XX	PROPERTY LINE	— — — —	— — — —	— — — —
23. CONSTRUCTION SUPERINTENDENT SHALL CONTACT THE CUSTOMER REPRESENTATIVE FOR A CONFERENCE TWO WEEKS PRIOR TO THE START OF THE WORK. THE SCOPE OF WORK AND TIMELINE SHALL BE DISCUSSED WITH RESPECT TO ANY COORDINATION ISSUES WHICH SHALL DISRUPT THE FACILITY OPERATIONS. THE SUPERINTENDENT SHALL SUBMIT A WEEKLY STATUS REPORT TO THE CUSTOMER, WITH PICTURES, VIA EMAIL TO THE CUSTOMER REPRESENTATIVE. THIS INCLUDES ANY FACILITY EQUIPMENT WHICH ARE IN CLOSE PROXIMITY TO THE CONSTRUCTION WORK WHICH WILL BE MOVED BY THE FACILITY REPRESENTATIVES.	EPD	EMERGENCY POWER OFF	DISC-XX	TRENCHING BOUNDARY	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —
24. TRENCHING SHOULD BE DONE IN STAGES, TO ENSURE CUSTOMER TRAFFIC FLOW IS NOT IMPEDED.	ES	EMERGENCY SERVER	DISC-XX	WATER LINE	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —
25. UTILTY CONNECTIONS THAT REQUIRE TAPPING ON LIVE LINES SHALL BE PERFORMED AT NIGHT AND BE COORDINATED WITH AND APPROVED BY THE CUSTOMER PRIOR TO MAKING UTILITY CONNECTIONS. ANY PRECAUTIONARY MEASURES REQUIRED DUE TO UTILITY SHUT-OFF NEED TO BE COMPLETED BY CONTRACTOR.	FH	FIRE HYDRANT	DISC-XX	SHRUB/BUSH LINE	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —
26. STABILIZATION: ACCOMPLISH FIRE ACCESS AS NECESSARY.	FPT	FLUID POWER TUBE	DISC-XX	SHRUB/BUSH LINE	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —
27. ONLY HALF OF DRIVE AISLES MAY BE CLOSED IN ACTIVE CONSTRUCTION AREAS. OTHER VEHICLES OR MATERIALS SHALL BE KEPT AWAY FROM THE AREA SO AS TO NOT HINDER TRAFFIC FLOW, COORDINATE THE LOCATION OF ON-SITE PARKING AND/OR TEMPORARY STORAGE WITH CUSTOMER REPRESENTATIVES.	GP	GENERAL POWER	DISC-XX	SHRUB/BUSH LINE	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —
28. MAINTAIN MINIMUM 20' FREE LANE ACCESS DURING CONSTRUCTION AND STAGE TRENCHING TO CONTRACTOR.	GPDIS	GENERAL POWER DISCONNECT	DISC-XX	SHRUB/BUSH LINE	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —
29. UTILTY CONNECTIONS THAT REQUIRE TAPPING ON LIVE LINES SHALL BE PERFORMED AT NIGHT AND BE COORDINATED WITH AND APPROVED BY THE CUSTOMER PRIOR TO MAKING UTILITY CONNECTIONS. ANY PRECAUTIONARY MEASURES REQUIRED DUE TO UTILITY SHUT-OFF NEED TO BE COMPLETED BY CONTRACTOR.	GPREG	GENERAL POWER REGULATOR	DISC-XX	SHRUB/BUSH LINE	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —
30. WHEN THE TRENCH IS OPEN, IT SHALL BE COVERED DURING OFF-WORK HOURS WITH PLATES THAT ARE CAPABLE OF SUPPORTING THE WEIGHT OF DELIVERY TRUCKS.	GPVOL	GENERAL POWER VOLTAGE	DISC-XX	SHRUB/BUSH LINE	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —
31. UTILTY CONNECTIONS THAT REQUIRE TAPPING ON LIVE LINES SHALL BE PERFORMED AT NIGHT AND BE COORDINATED WITH AND APPROVED BY THE CUSTOMER PRIOR TO MAKING UTILITY CONNECTIONS. ANY PRECAUTIONARY MEASURES REQUIRED DUE TO UTILITY SHUT-OFF NEED TO BE COMPLETED BY CONTRACTOR.	GPW	GENERAL POWER WIRE	DISC-XX	SHRUB/BUSH LINE	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —
32. TRENCHING SHOULD BE DONE IN STAGES, TO ENSURE CUSTOMER TRAFFIC FLOW IS NOT IMPEDED.	GPWDIS	GENERAL POWER WIRE DISCONNECT	DISC-XX	SHRUB/BUSH LINE	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —
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36. STABILIZATION: ACCOMPLISH FIRE ACCESS AS NECESSARY.	GPWVOLREG	GENERAL POWER WIRE VOLTAGE REGULATOR	DISC-XX	SHRUB/BUSH LINE	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —	— *** — *** — *** — *** — *** —
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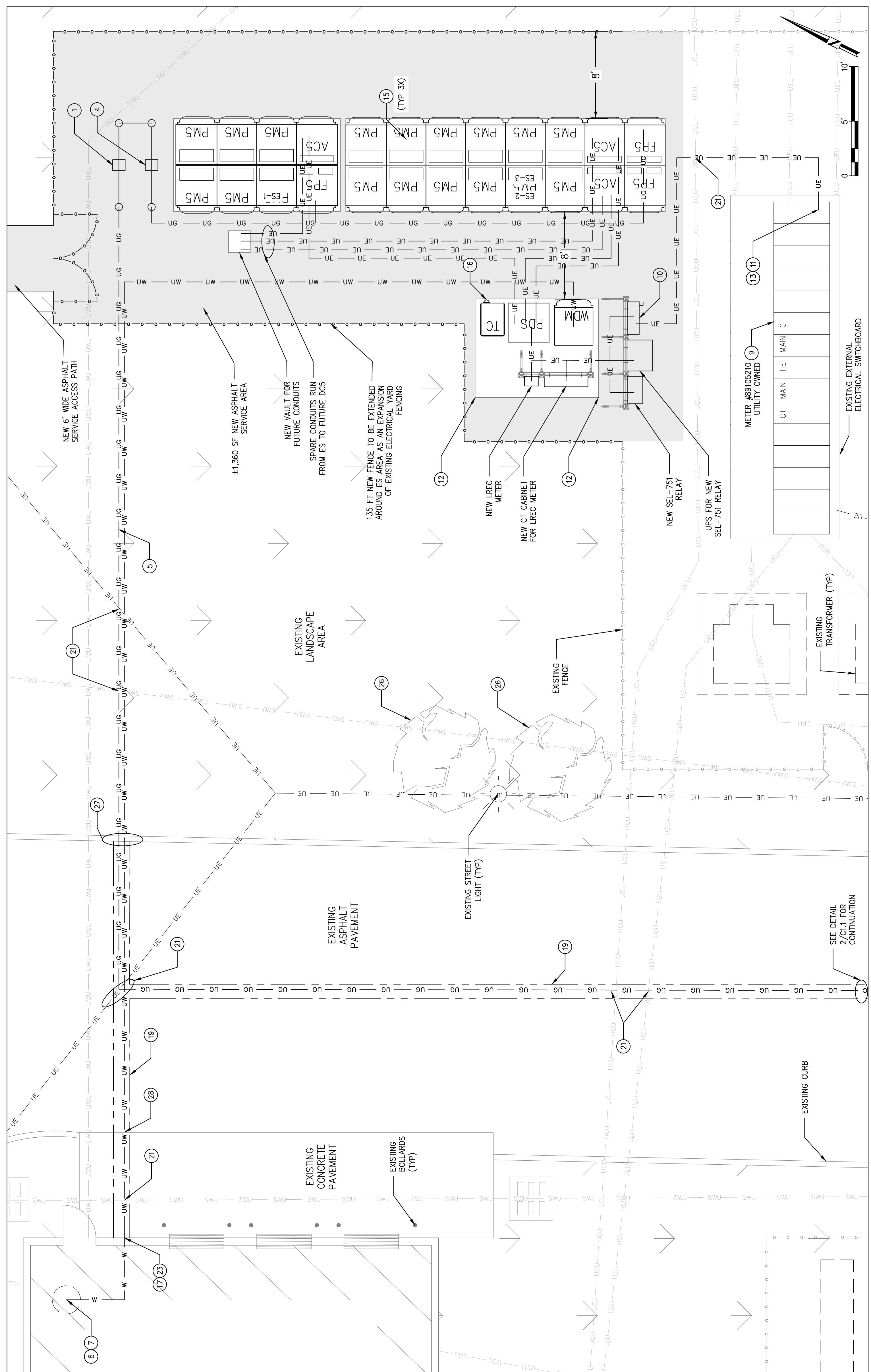


GENERAL NOTES

- CLEAN AND PRIME ALL NEW WIRE MOUNTED PIPING AND CONDUIT TO MATCH EXISTING.
- CONDUTS AND PIPES MOUNTED TO BUILDING WALL SHALL BE SUPPORTED AS PER LOCAL CODE, RUN AT HEIGHT ABOVE DOORWAYS, AND STAND OFF WALL TO AVOID EXISTING CONDUITS AND PIPES.
- SLOPE LINES SHOWN ARE APPROXIMATE AND INTENDED TO SHOW THE GENERAL DIRECTION OF WATER RUN OFF, SLOPE LINES ARE DRAWN PER VISUAL SURVEY OF SURROUNDING AREA.
- SEE BLOOM ENERGY PRODUCT INSTALLATION DRAWINGS FOR UTILITY CONNECTIONS TO ANCILLARY EQUIPMENT AND ENERGY SERVER.

REFERENCE SHEET NOTES

- NEW UTILITY PROVIDED AND INSTALLED GAS METER & REGULATOR PAD PER DETAILS IF REQUIRED BY UTILITY COMPANY. COORDINATE ALL CONNECTIONS WITH GAS UTILITY.
- NEW UNDERGROUND GAS SERVICE TAP BY UTILITY COMPANY. COORDINATE WITH GAS UTILITY. CONTRACTOR SHALL PERFORM COMPACTION AND MATCH EXISTING SURFACE AND GRADE.
- NEW PRIVATE GAS REGULATOR SET ASSEMBLY FOR BLOOM ENERGY SERVER WITH SHUT-OFF VALVE. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
- NEW PRIVATE GAS REGULATOR SET ASSEMBLY FOR BLOOM ENERGY SERVER WITH SHUT-OFF VALVE. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
- NEW GAS PIPE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
- TAP EXISTING WATER LINE AT NEAREST ACCESSIBLE LOCATION IN DOMESTIC WATER CONNECTION DETAIL FOR ADDITIONAL REQUIREMENTS.
- NEW WATER PIPE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. REFER TO WATER RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
- EXISTING UTILITY ELECTRIC METER REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- NEW BLOOM ENERGY FURNISHED. CONTRACTOR INSTALLED.
- DISCONNECT SWITCH MOUNT TO WALL PER MANUFACTURER AND UTILITY SPECIFICATIONS.
- CONTRACTOR SHALL TERMINATE ELECTRIC FEEDER AS SHOWN. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE TWO GROUNDING RODS TO BE PLACED 6' APART MINIMUM. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- FACTORY WIRED BLOOM ENERGY SERVER EMERGENCY POWER-OF SWITCH (EPO).
- CONTRACTOR SHALL CORE CONDUIT AND/OR PIPE THROUGH WALL SCAN WALL PRIOR TO CORING TO AVOID COLLATERAL DAMAGE TO EXISTING PLUMBING AND WIRING. REFER TO WALL PENETRATION DETAIL FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL PROBE SAWCUT TRENCH FOR UNDERGROUND UTILITIES IN THIS LOCATION AND HAND DIG TRENCHES WHERE THEY CROSS EXISTING UTILITIES. REFER TO UNDERGROUND/TRENCH CONDUIT AND PIPING DETAIL FOR ADDITIONAL REQUIREMENTS.
- PROTECT EXISTING UNDERGROUND UTILITY LINES FROM DAMAGE WHEN CROSSING WITH NEW UNDERGROUND UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGED LINES.
- CONTRACTOR SHALL TRANSITION ALL ABOVEGROUND NEW LINES TO UNDERGROUND TOWARD ANCILLARY EQUIPMENT ABOVE GROUND UTILITIES SHALL BE PROTECTED AS NECESSARY, THEN ROUTED UNDERGROUND TO EQUIPMENT STUB-UP LOCATIONS PER MECHANICAL DETAIL.
- CONTRACTOR SHALL REMOVE AND REPLACE CONCRETE SIDEWALK TO BLOOM ENERGY SERVER TOP VENTS AND 6'-0" CLEARANCE TO ALL OTHER SURFACES OF ENERGY SERVER.
- CONTRACTOR SHALL UNDER-CUT EXISTING CURB FOR TRENCHING OTHER LINES AND BACKFILL WITH CONCRETE SLURRY. IF CURB IS DAMAGED, REPAIR TO MATCH EXISTING.
- CONTRACTOR SHALL REMOVE AND REPLACE CONCRETE SIDEWALK TO THE NEAREST JOINT AS REQUIRED TO COMPLETE THE WORK. REFER TO CONCRETE SIDEWALK DETAIL FOR ADDITIONAL REQUIREMENTS.

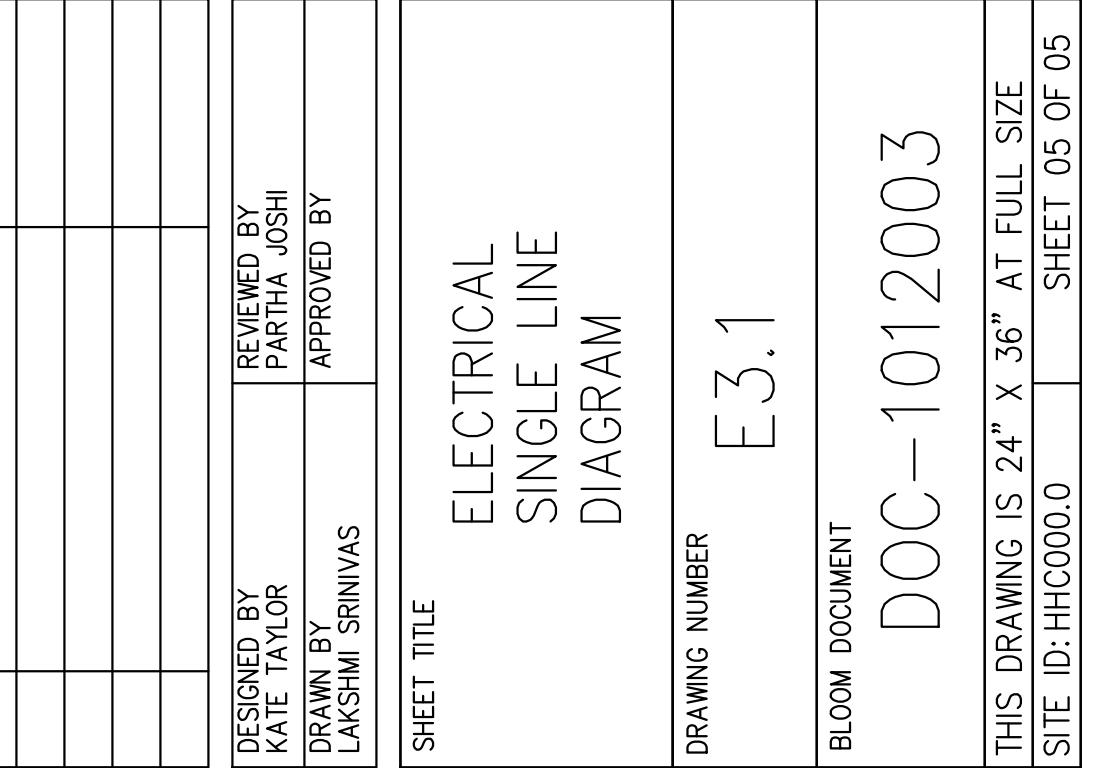
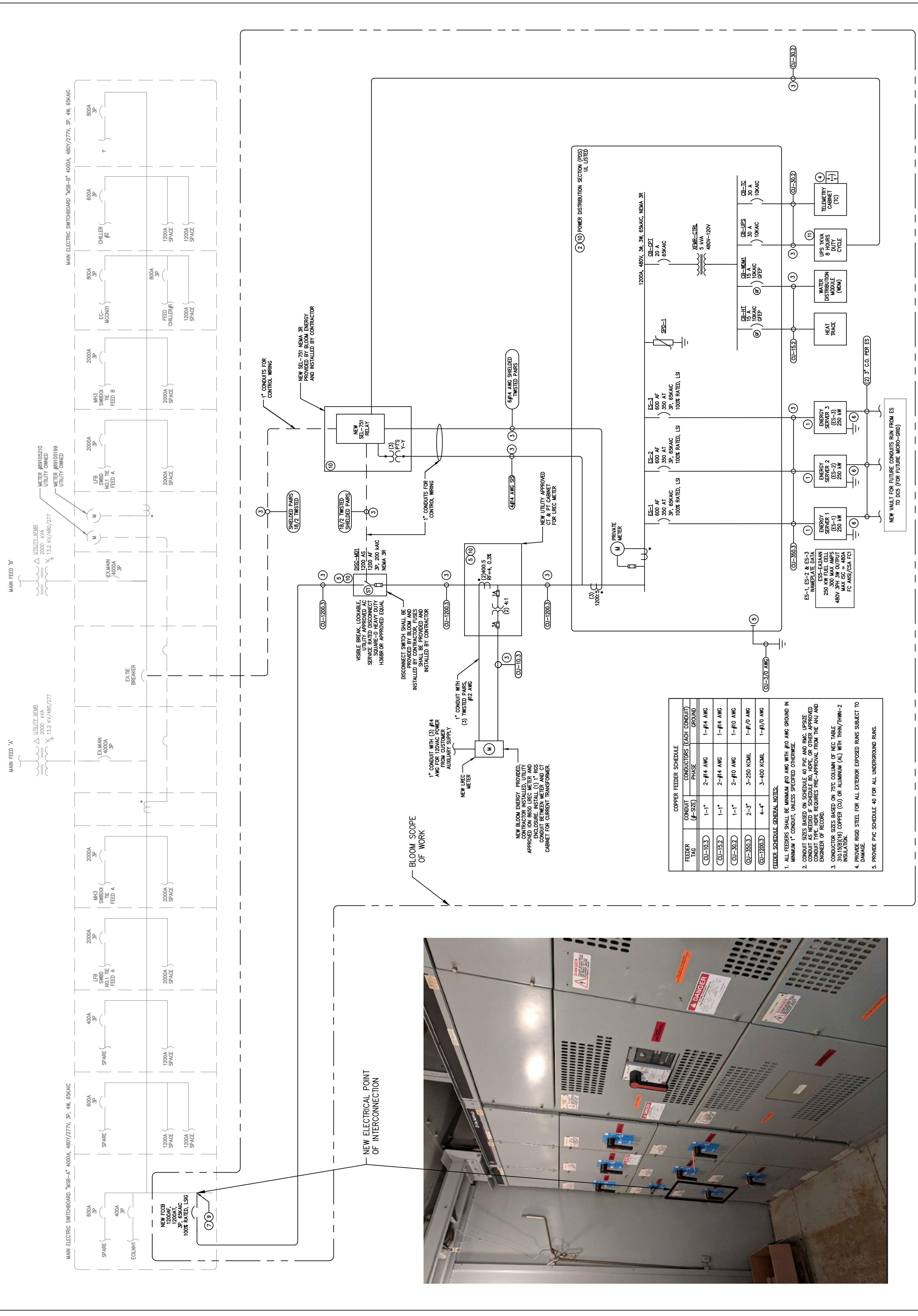


GENERAL NOTES

1. FEEDER SHALL NOT BE ROUTED THROUGH THE UTILITY PULL OR UTILITY METER SECTIONS. FEEDER SHALL NOT BE ROUTED THROUGH ANY OTHER SECTION THAN THAT IN WHICH IT TERMINATES UNLESS BARRIERS ARE PROVIDED PER NEC 408.3.
2. THE ENERGY SERVER INVERTER OUTPUT CHARACTERISTICS SHALL BE IN ACCORDANCE WITH NEC 705.14.
3. INTERCONNECTIONS SHALL BE IN ACCORDANCE WITH NEC 705.10.
4. THE ENERGY SERVER OUTPUT IS EQUIPPED WITH UTILITY-INTERACTIVE INVERTERS RECOGNIZED BY UL TO UL1741 AND IEEE 1547 AND COMPLIES WITH NEC 692.62. INVERTER SETTINGS PER THE PROVIDED TABLE BELOW.
5. THE ENERGY SERVER IS NOT A SEPARATELY DERIVED SYSTEM PER NEC 250.30 [ART. 100]

REFERENCE SHEET NOTES

- ① ALL CONNECTIONS FROM FUEL CELLS TO INVERTER ARE FACTORY WIRED AND ALL MAINTENANCE CABINETS ARE ACTIVELY PRESSURIZED; THEREFORE, NO CLASS 1, DIVISION 2 WIRING IS REQUIRED.
- ② ALL COMPONENTS SHOWN IN THIS BOUNDARY SHALL BE UL LISTED TOGETHER AS A SINGLE, COMPLETE, ALL INCLUSIVE UNIT. ALL ELECTRICAL CONDUIT/CABLE CONNECTIONS WITHIN THIS BOUNDARY SHALL BE FACTORY INSTALLED WITH SOME FINAL CONNECTIONS TO BE COMPLETED BY THE CONTRACTOR IN THE FIELD. REFER TO BLOOM INSTALLATION MANUAL FOR ALL FINAL TERMINATION POINTS.
- ③ CONTRACTOR SHALL PROVIDE CONDUIT AND CONDUCTORS AS INDICATED. SELECTION OF CONDUIT TYPE SHALL BE PER NEC REQUIREMENTS. REFER TO BLOOM INSTALLATION MANUAL FOR ALL FINAL TERMINATION POINTS AT BLOOM ENERGY FURNISH EQUIPMENT.
- ④ MANUFACTURER INSTALLED, PRE-WIRED EPO BUTTON LOCATED IN READILY ACCESSIBLE LOCATION AT ENERGY SERVER PLATFORM AND CONNECTED TO TELEMETRY CABINET TERMINAL STRIP.
- ⑤ CONTRACTOR SHALL PROVIDE NEW GROUND CONDUCTOR FROM ELECTRICAL EQUIPMENT TO THE GROUND ROD IN THE CONCRETE PAD.
- ⑥ CONTRACTOR SHALL PROVIDE (1) #1/0 AWG CU FROM ENERGY SERVER GROUND TO UFER GROUND IN ENERGY SERVER PAD, TYP.
- ⑦ CONTRACTOR SHALL UTILIZE EXISTING SPACE AND PROVIDE NEW CIRCUIT BREAKER FOR POINT INTERCONNECTION AT MAIN SWITCHBOARD. AND TERMINATE GROUND CONDUCTOR TO THE GROUND BUS.
- ⑧ THE UTILITY-INTERACTIVE INVERTER POINT OF CONNECTION SHALL BE IN ACCORDANCE WITH NEC 705.12
- ⑨ EQUIPMENT SHALL BE FURNISHED BY BLOOM ENERGY AND INSTALLED BY CONTRACTOR.
- ⑩ SEL-751 TO POWERED BY A 1kVA UPS IN ORDER TO OPERATE THE MAIN BREAKER UPON FAIL SAFE CONDITION ACTIVE.



SINGLE LINE DIAGRAM

SINGLE LINE DIAGRAM

VD POINT	PHASE	SOURCE FAULT	FEEDER CONDUIT TYPE	#	WIRE/BUS SIZE	FEEDER MATERIAL CU OR AL	L-L VOLTS E(LV)	CIRCUIT LENGTH L	LOAD POWER FACTOR (pf)	CIRCUIT LOAD A	VOLTAGE DROP %VD	TOTAL V.D. %VD CUM.
DISC.MD1 TO POC	3	3	NM	4	SETS OF 400 KCML	CU	480	≈50'	0.9900	948	0.16%	0.39%
PDS TO DISC.MD1	3	2	NM	4	SETS OF 400 KCML	CU	480	≈20'	0.9900	948	0.06%	0.23%
ES TO PDS	3	1	NM	2	SETS OF 250 KCML	CU	480	≈40'	0.9900	300	0.16%	0.16%

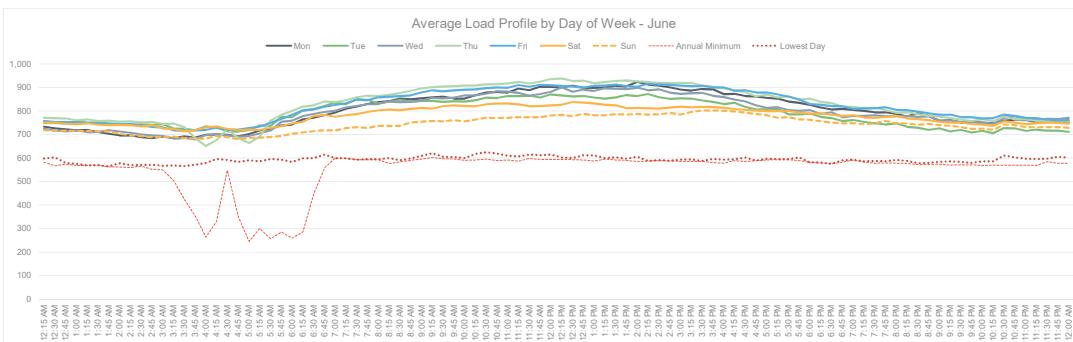
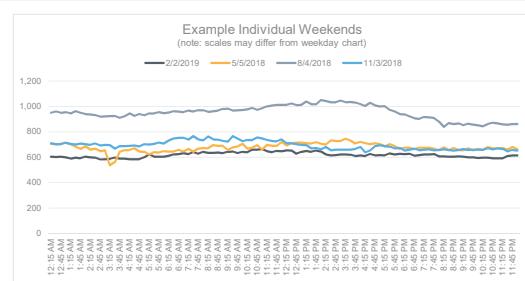
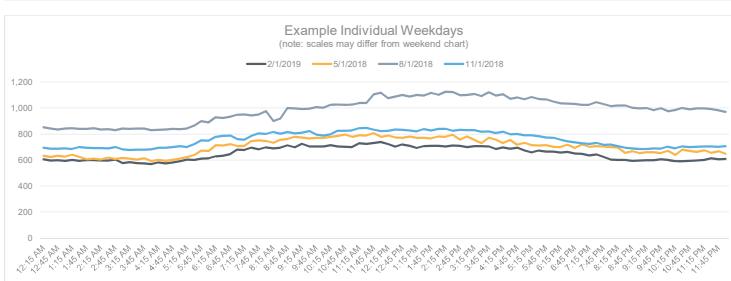
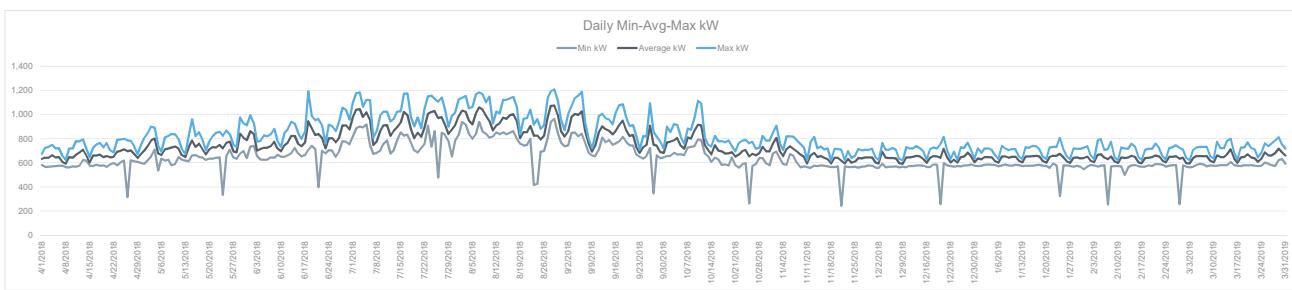
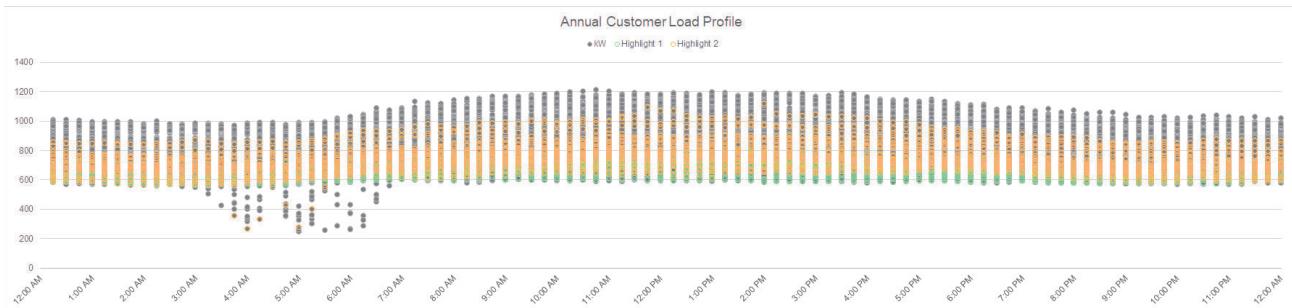
Bloomenergy®

Exhibit 3

INPUTS	
Customer Name	Harford Healthcare
Site Name	
Select Utility	EVR-CT
Enter Tariff (Include Primary, Secondary, etc)	EVR-CT 58-SI
If Other, Input Tariff	
Utility Account Number (kW)	NEPOOL CLP_51997282041_597292002
Meter Number	TOTALIZED - #89105210 and #89105199
DA Vintage	
Supply Rate	
Gas Utility	

SIZING SUMMARY	
Total Days of Complete, Non-Zero Data	365
Annual Load Factor	92%
Daily Load Factor	90%
Total Customer Usage	6,464,873 kWh
Average Hourly kW	738 kW
Average Daily Max Demand	824 kW
Absolute Minimum kW	245 kW
Recurring Minimum Baseload	571 kW
Average Baseload	665 kW
Proposed System Size*	750 kW

SERVICE A + B: Totalized



Energy Server™ 5

Always On, Clean Energy
Using Patented Solid Oxide
Fuel Cell Technology



The Energy Server 5 provides combustion-free electric power with these benefits



Clean

Our systems produce near zero criteria pollutants (NOx, SOx, and particulate matter) and far fewer carbon emissions than legacy technologies.



Reliable

Bloom Energy Servers are designed around a modular architecture of simple repeating elements. This enables us to generate power 24 x 7 x 365 and can be configured to eliminate the need for traditional backup power equipment.



Resilient

Our system operates at very high availability due to its fault-tolerant design and use of the robust natural gas pipeline system. Bloom Energy Servers have survived extreme weather events and other incidences and have continued providing power to our customers.



Simple Installation and Maintenance

Our Energy Servers are 'plug and play' and have been designed in compliance with a variety of safety standards. Bloom Energy manages all aspects of installation, operation and maintenance of the systems.

Energy Server 5		Technical Highlights (ES5-EA2AAN)
Outputs		
Nameplate power output (net AC)	250 kW	
Load output (net AC)	250 kW	
Electrical connection	480V, 3-phase, 60 Hz	
Inputs		
Fuels	Natural gas, directed biogas	
Input fuel pressure	10-18 psig (15 psig nominal)	
Water	None during normal operation	
Efficiency		
Cumulative electrical efficiency (LHV net AC) ¹	65-53%	
Heat rate (HHV)	5,811-7,127 Btu/kWh	
Emissions²		
NOx	0.0017 lbs/MWh	
SOx	Negligible	
CO	0.034 lbs/MWh	
VOCs	0.0159 lbs/MWh	
CO ₂ @ stated efficiency	679-833 lbs/MWh on natural gas; carbon neutral on directed biogas	
Physical Attributes and Environment		
Weight	13.6 tons	
Dimensions (variable layouts)	14'4" x 8'8" x 6'9" or 28'8" x 4'4" x 7'2"	
Temperature range	-20° to 45° C	
Humidity	0% - 100%	
Seismic vibration	IBC site class D	
Location	Outdoor	
Noise	< 70 dBA @ 6 feet	
Codes and Standards		
Complies with Rule 21 interconnection and IEEE1547 standards		
Exempt from CA Air District permitting; meets stringent CARB 2007 emissions standards		
An Energy Server is a Stationary Fuel Cell Power System. It is Listed by Underwriters Laboratories, Inc. (UL) as a 'Stationary Fuel Cell Power System' to ANSI/CSA FC1-2014 under UL Category IRGZ and UL File Number MH45102.		
Additional Notes		
Access to a secure website to monitor system performance & environmental benefits		
Remotely managed and monitored by Bloom Energy		
Capable of emergency stop based on input from the site		

¹ 65% LHV efficiency verified by ASME PTC 50 Fuel Cell Power Systems Performance Test

² NOx and CO measured per CARB Method 100, VOCs measured as hexane by SCAQMD Method 25.3

About Bloom Energy

Bloom Energy's mission is to make reliable, clean energy affordable for everyone in the world. The company's product, the Bloom Energy Server, delivers highly reliable and resilient, Always On electric power that is clean and sustainable. Bloom's customers include twenty-five of the Fortune 100 companies and leaders in cloud services and data centers, healthcare, retail, financial services, utilities and many other industries.

Bloom Energy

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Be

Exhibit 4



Fire Prevention and Emergency Planning – Grid Parallel

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Bloom Energy Corporation, 1299 Orleans Drive, Sunnyvale, CA 94089 USA

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1. FIRE PREVENTION AND EMERGENCY PLANNING OVERVIEW

The following document is provided only as a guide to assist you in complying with national and local codes and requirements, as well as to provide other helpful information. It is not intended to supersede the requirements of any standard. You should review the standards for particular requirements that are applicable to your individual situation, and make adjustments to this program that are specific to your company. You will need to add information relevant to your facility in order to develop an effective, comprehensive program.

2. FUEL CELL SYSTEM INSTALLATION SAFETY FEATURES

The fuel cell system has redundant safety features and in-system checks to ensure that the system will not harm certified technicians or bystanders near the unit. While the actual fuel cells operate at high temperatures, these components do not move, and are contained within many layers of insulation. During normal operation, the unit is cool to the touch and operates quietly.

The fuel cell system is controlled electronically and has internal sensors that continuously measure system operation. If safety circuits detect a condition outside normal operating parameters, the fuel supply is stopped and individual system components are automatically shut down. A Bloom Energy Remote Monitoring and Control Center (RMCC) operator can also remotely initiate any emergency sequence. An Emergency Stop alarm condition initiates an automatic shutdown sequence that puts the fuel cell system into —safe mode and causes it to stop exporting power. If you have questions about any of these safety features, please contact Bloom Energy.

If you have to shut down your fuel cell system right away—for example, in case of a building fire or electrical hazard—three shutoff controls are installed at your facility external to the system. The locations of these three controls should be known to your facilities manager before operation, and should be noted on your facility diagram that you created with your Bloom Energy account manager. The three shutoffs are the **EPO button**, the **electrical disconnect**, and the **natural gas shutoff valve**.

- An **Emergency Power Off (EPO) Button** cuts all power to all systems and stops them from exporting power to your building. All natural gas flow is also stopped within the systems. (The EPO button is on the front/side of the EDM, if an EDM is installed.) Lift the protective cover and break the glass seal that covers the button with the attached hammer. After the glass seal is broken, the shutdown sequence will automatically begin.



Figure 1: Emergency Power Off Button

- An **electrical disconnect** manually disconnects systems from the grid if needed. Pressing the EPO button should already stop any power transmission, but it does not hurt the systems to also open this disconnect if you believe it is needed. The location of this disconnect will vary, however it is typically located near the point of interconnection where the wires from the fuel cell installation meet the facility's electrical framework. This may be inside your facility's electrical room, or if the fuel cell installation is near the electrical room, it may be found within the switchgear that Bloom Energy installs. This location of this disconnect is shown on the Site Map (see below) and is labeled "(name of electrical utility) Lockable Visible Generator Disconnect Switch".



Figure 2: Electrical Disconnect

- A **manual natural gas valve** shuts down all natural gas to the system. If the valve operator is perpendicular to the pipe, the valve is shut. If it is parallel with the pipe, the valve is open.



Figure 3: Manual Natural Gas Valve

Site map:

- An overhead site map showing the location of all safety features will be posted throughout the fuel cell installation
- Electronic copies are available to you for use in your site planning

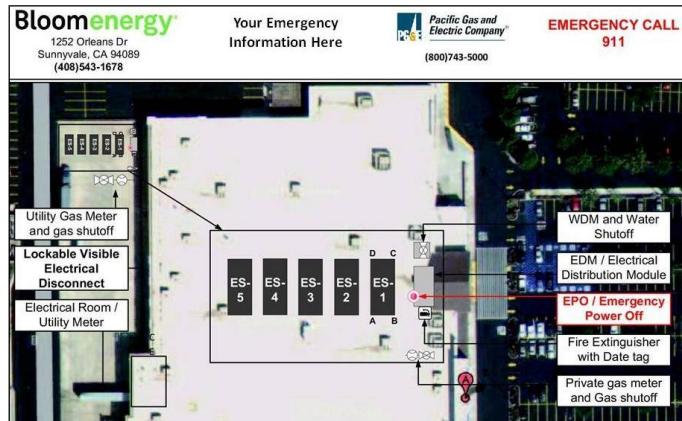


Figure 4: Sample Site Map

Manual controls:

- Clearly marked emergency stop button labeled —Fuel Cell Emergency Shut Downll located at site
- Two manual fuel shutoff valves outside the system, and two isolation valves inside the system

Fire hazard mitigation:

- System is plumbed directly to utility-provided natural gas
- If system input gas pressure is compromised, a pressure switch triggers an emergency system shutdown and fuel input is isolated
- System does not use fuel compressors or pumps
- System has virtually no stored fuel (internal capacity is < 5 scf)

Electrical hazard and mitigation:

- System operates at 480V
- Signs inside the system warn of the risk of electric shock
- System has backfeed protection
- System inverter prevents grid backfeed during a power outage

Mechanical hazard and mitigation:

- Finger/hand guard protection is provided on all fans
- All moving parts are located behind secured doors

Material hazard mitigation:

- Desulfurizer bed (to remove fuel impurities) are fully enclosed
- Maintained and serviced by licensed vendors

3. EMERGENCY NOTIFICATION PROCEDURES

Life-Threatening Emergencies

To report life-threatening emergencies, immediately call:

Fire:	911
Ambulance:	911
Police:	911

Conditions that require automatic emergency notification include:

- Unconscious Victim
- Seizure
- Major Trauma
- Chest Pains
- Difficulty Breathing
- Flames

Non-Life-Threatening Emergencies

For non-life-threatening emergencies, report the incident to the local safety control center.

When you report an emergency, give the following information:

- Exact nature of the emergency (describe as clearly and accurately as possible).
- Exact location (i.e., address, building, floor, area, department, etc.).
- Telephone number from which you are calling.
- Your full name.
- ***Do not hang up***, as additional information may be needed.

To assist in any subsequent investigation or determination of corrective actions, it is recommended to record the following items as close to the incident time as possible:

- Summary of any violation

- Identification of responsible parties
- Identification of victims and witnesses
- Description of evidence
- Description of general conditions
- Description of any vehicles involved
- Narratives from witnesses
- Any photographs

4. FIRE OR SMOKE PROCEDURES

This section describes the procedures involving a fire or smoke. A major fire is one that requires the use of more than one fire extinguisher or takes more than one minute to extinguish.

If you discover a fire or smoke:

1. Activate the nearest fire alarm if not activated already.
2. Activate the fuel cell Emergency Stop if possible.
3. Shut off the fuel cell installation natural gas line if possible.
4. If the fire is small and does not pose an immediate risk to personal safety, you may attempt to extinguish it with a portable fire extinguisher **only if trained to do so**.
5. Avoid using water on electrical fires.
6. Report every fire, regardless of size, immediately. Smoke or the smell of smoke should be reported.
 - From a safe location dial **911**.
 - Report the incident to the local security safety center.

5. MEDICAL EMERGENCY PROCEDURES

This section describes the necessary procedures for injuries or illnesses that may occur under extreme conditions.

A serious injury can be life-threatening and will require immediate medical attention. Injuries can include head injuries, spine injuries, broken bones, heart attack, stroke, loss of consciousness, excessive bleeding, chemical exposure, etc.

A non-serious injury is not immediately life-threatening but may still require the attention of a medical doctor. These can include headaches, nausea, itching, cuts, burns, etc.

Life-Threatening Medical Emergency

1. Remain calm.
2. Immediately dial 911.
3. Report the incident to local security safety center.
4. Do not move the victim unless it is absolutely necessary.
5. Call out for personnel trained in first aid and/or CPR which may include Building Evacuation or Emergency Response team members.

6. Ask someone to bring the area first aid kit and Automated External Defibrillator.
7. Assist if capable or asked to do so.

Non-Life-Threatening Medical Emergency

1. Remain calm.
2. Report the incident to the local security safety center.
3. Do not move the victim unless it is absolutely necessary.
4. Call out for personnel trained in first aid.
5. Ask someone to bring the area first aid kit.
6. If the victim requires further medical attention, then direct them to the nearest approved medical clinic or hospital – Contact Security or Human Resources for assistance if needed.
7. The injured employee's supervisor/manager is responsible for ensuring injury forms are properly filled out. Complete the forms within 24 hours of incident and submit to the injury reporting system for follow-up. Follow company protocols.

6. MATERIALS RELEASE PROCEDURES

The fuel cell system does not pose a hazard to health or environment. However, some internal materials when released, may pose a irritation risk to people and a possible risk of fire if not properly handled. This section was designed to address potential material release events:

In case of a material release that poses a direct threat to health, safety, or the environment:

1. Report the incident to local safety/security office.
2. If extremely life-threatening immediately dial **911** followed with a call to Security.
3. Contain the spill.
4. Evacuate the area or building if the material release is determined to be life-threatening.

In the event of an unknown indoor smell or odor, report the incident to authorities responsible for HAZMAT and spills.

7. NATURAL DISASTERS AND SEVERE WEATHER

7.1 Earthquake

This section provides information and procedures for earthquake emergencies.

The fuel cell system is designed to automatically shut off if the natural gas supply is compromised.

The natural gas supply line has an external, manual shut-off valve that should be activated if it is safe to do so. This valve will be labeled, "Notice – Fuel Cell Gas Shut

Off". The natural gas line will be labeled with the word "gas" on a yellow background with an arrow pointing in the direction of flow.

The nearby Emergency Stop can be activated to stop the flow of fuel and power to/from the fuel cell system.

A Bloom Energy Field Engineer will validate site safety and system operation during/after severe weather as necessary.

7.2 Flood

The fuel cell system support pad is designed to divert water flow. However, if flooding conditions exist, or threaten to exist due to heavy rainfall, creek bank overflows, or pipe breakage, then immediately report the incident to the local safety/security office.

Do not use the fuel cell power system if any part has been under water. If it is safe to reach the Emergency Power Off button for the site without entering the water, stop all systems until a Bloom Energy representative can assess the site.

Precautions to follow after a flood:

- Stay out of flooded areas. Flooded areas remain unsafe. Entering a flooded area places you at risk.
- Notify Bloom Energy. A Bloom Energy Field Engineer will validate site safety and system operation during/after severe weather as necessary

8. UTILITY OUTAGE

The fuel cell system is operated in "Grid-Parallel" mode. If utility provided power is lost for any reason, the fuel cell system will go "off-line". The fuel cell system will remain in stand-by mode until it automatically senses the utility grid has been restored. If utility gas is shut down, the fuel cell system will begin to shut down completely.

The Bloom Energy Remote Monitoring Control Centers monitor the fuel cells 24 hours per day and will be alerted to utility grid interruptions via its controls software. A Field Service Engineer will be dispatched to restart the fuel cell system if necessary. Customer personnel should NOT attempt to start up or operate the fuel cell system.

Before a Planned Outage

- Notify the Bloom Energy Remote Monitoring Control Center at 1-408-543-1678 at least 24 hours before planned outage.
- Bloom Energy Remote Monitoring Engineers will reduce power generated by the fuel cell system and take the fuel cell off-line.
- Abrupt fuel cell system shutdowns may cause significant system damage.

During a Utility Power Loss

- The fuel cell system will automatically go off-line.
- The Bloom Energy Remote Monitoring Control Centers will monitor the fuel cell system.
- Bloom Energy Field Service will be dispatched to start up the fuel cell system as necessary.
- If the fuel cell system has been automatically shut down and utility power is restored, there will be no impact to building power delivery: primary power will come from the utility rather than the fuel cells.

9. GOOD HOUSEKEEPING AND MAINTENANCE

9.1 Good Housekeeping

Although extremely unlikely, to minimize the risk of fire and any incidents, Facility Managers should take the following precautions around the fuel cell installation:

- What to do if you smell gas:
 - Do not try to light any appliance
 - Do not touch any electrical switch; do not use any phone in the area
 - Leave the area immediately
 - Immediately call your gas supplier. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department
- Notify Bloom Energy Remote Monitoring Control Center at 1-408-543-1678 of any condition that would impair the safety of the fuel cell installation so that mitigation measures could be determined and placed into effect.
- Prohibit smoking within the area of the fuel cell installation. Bloom Energy will furnish No Smoking signs for the area.
- Ensure only Bloom Energy Service Providers are permitted access inside the system.
- Keep the area around the fuel cell installation clear for ten feet in all directions, for safety and ease of maintenance.
- Keep the area around the fuel cell power system clear and free of combustible materials, gasoline, and other flammable vapors and liquids.
- Shut the system down and call Bloom Energy immediately if you suspect a fuel line rupture.
- **Never enclose an operating system** in a tarp, tent, shed, or other structure that would allow air to become trapped. This system runs on natural gas, and produces trace amounts of CO and CO₂. The amounts of these gases are safe for normal outdoor operation but could gather in an enclosed place.
- Do not block or obstruct air openings on the fuel cell power system. This system requires air flow in order to operate.

- Do not use this fuel cell power system if any part has been under water. Immediately call qualified service personnel to inspect the fuel cell power system and to replace any functional part which has been under water.
- Please contact Bloom Energy at 408-543-1678 with as much advance notice as possible if you plan, detect, or suspect a prolonged Internet outage.
- The Bloom Energy Field Service team will periodically clean the equipment; do not spray with pressurized hoses.

9.2 Maintenance

Your site has specific Field Service personnel assigned to it for both routine maintenance and troubleshooting. Your site project manager will introduce you to the designated Bloom Energy Field Service team assigned to your site prior to operation.

Bloom Energy Field Service personnel are trained in state Safety Law. They are trained in all the procedures required for the fuel cell installation, and their toolkit includes all the safety equipment required to work around the fuel components and high voltage in our system (480VAC).

Bloom Energy also requires its employees to follow all necessary safety precautions, including:

- Every time a Field Service technician arrives at a site for the first time and opens a service panel, the technician will use a leak detector to determine whether there is any gas buildup in the system and determine that it is safe to work on it.
- Whenever a Field Service technician is removing and replacing a component on a fuel or exhaust line, the technician must keep a CO detector nearby to make sure that no CO is present in the line even after the system has been shut down.

The Field Service team expects to conduct quarterly and yearly preventative maintenance for certain types of consumable or cleanable components such as replacement of air filters, water filters, and desulfurizer beds. Other maintenance will be performed as required. During such times, inspections for any hazards will be conducted including quarterly fire extinguisher inspection (if applicable).

10. TRAINING

Prior to system startup, a Bloom Energy representative will provide training on the fuel cell installation to include the location and operation of safety features as well as actions to take during emergencies. We desire this training to provide lasting value and are more than happy to work with you to customize the experience to suit your needs.

Exhibit 5

FIGURE 1: VIEW OF PROPOSED ENERGY SERVER LOCATION



FIGURE 2: VIEW OF PROPOSED ENERGY SERVER LOCATION



FIGURE 3: VIEW OF PROPOSED ENERGY SERVER LOCATION



FIGURE 4: VIEW OF PROPOSED ENERGY SERVER LOCATION

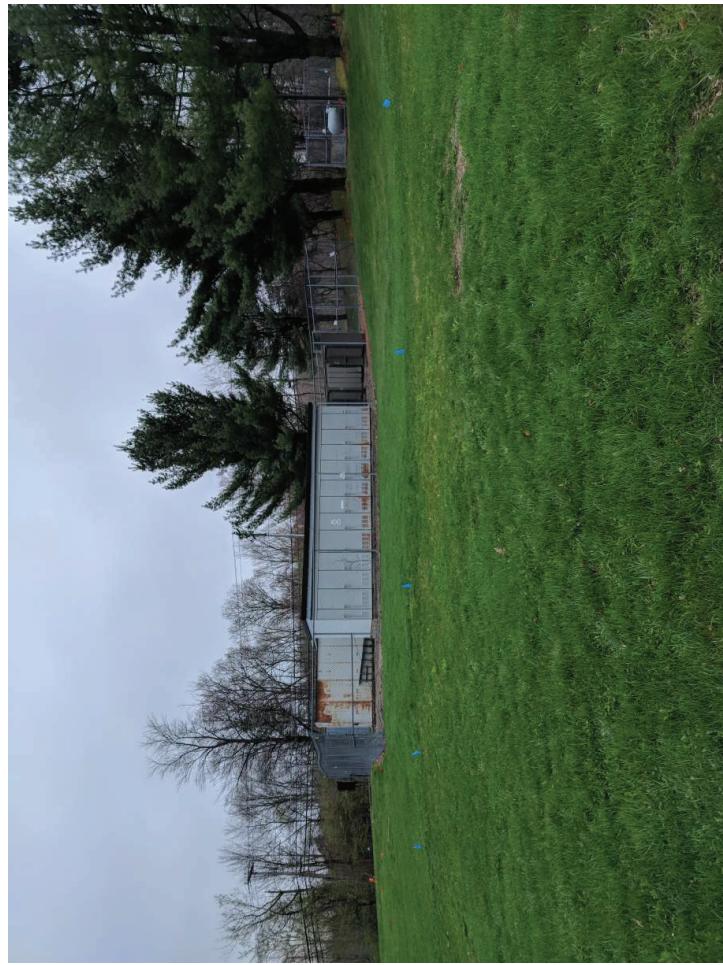
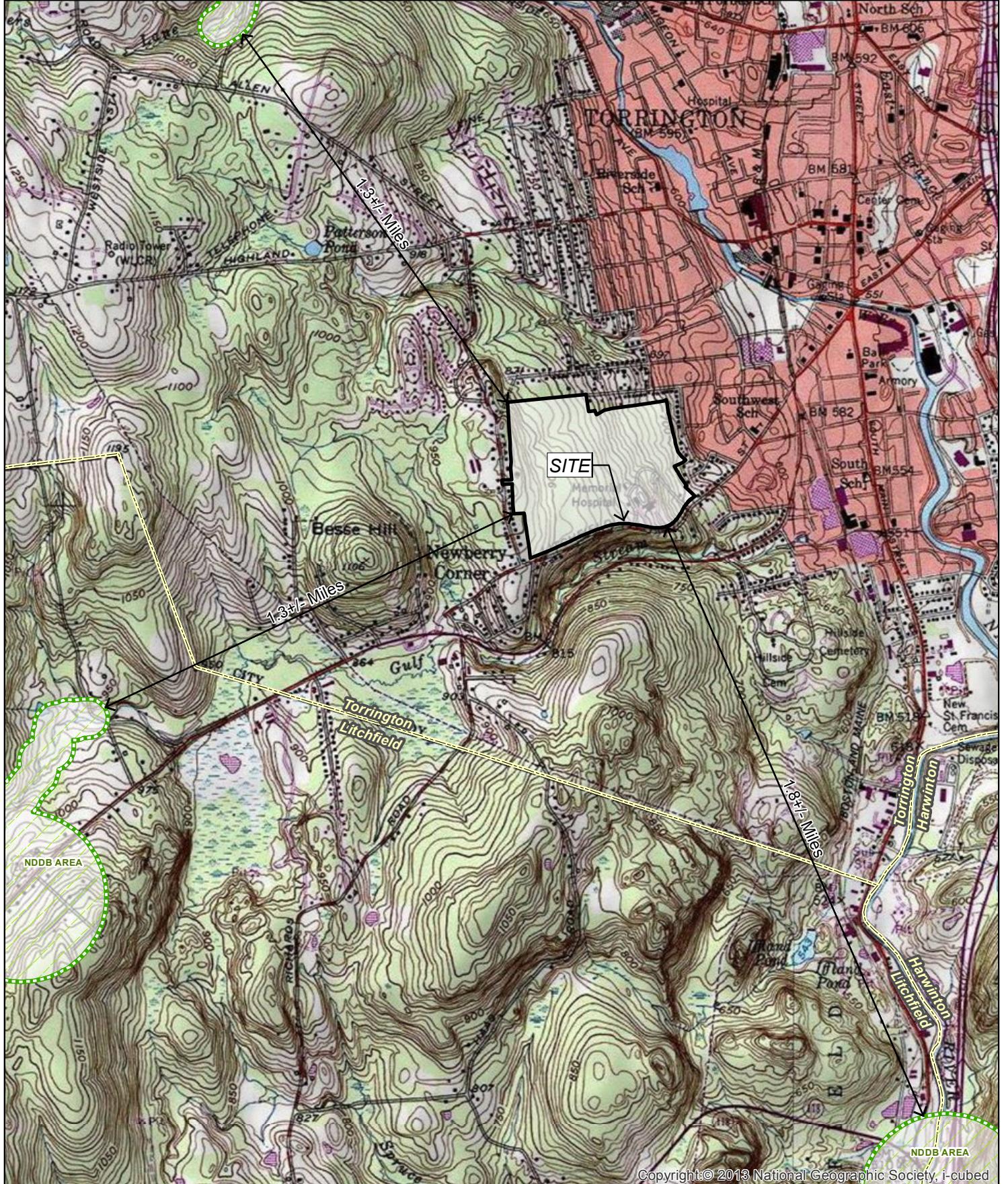


Exhibit 6

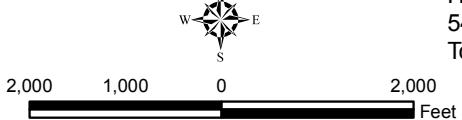
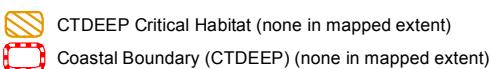
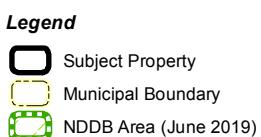


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Exhibit 6 CTDEEP Coastal Boundary, NDDB, & Critical Habitats

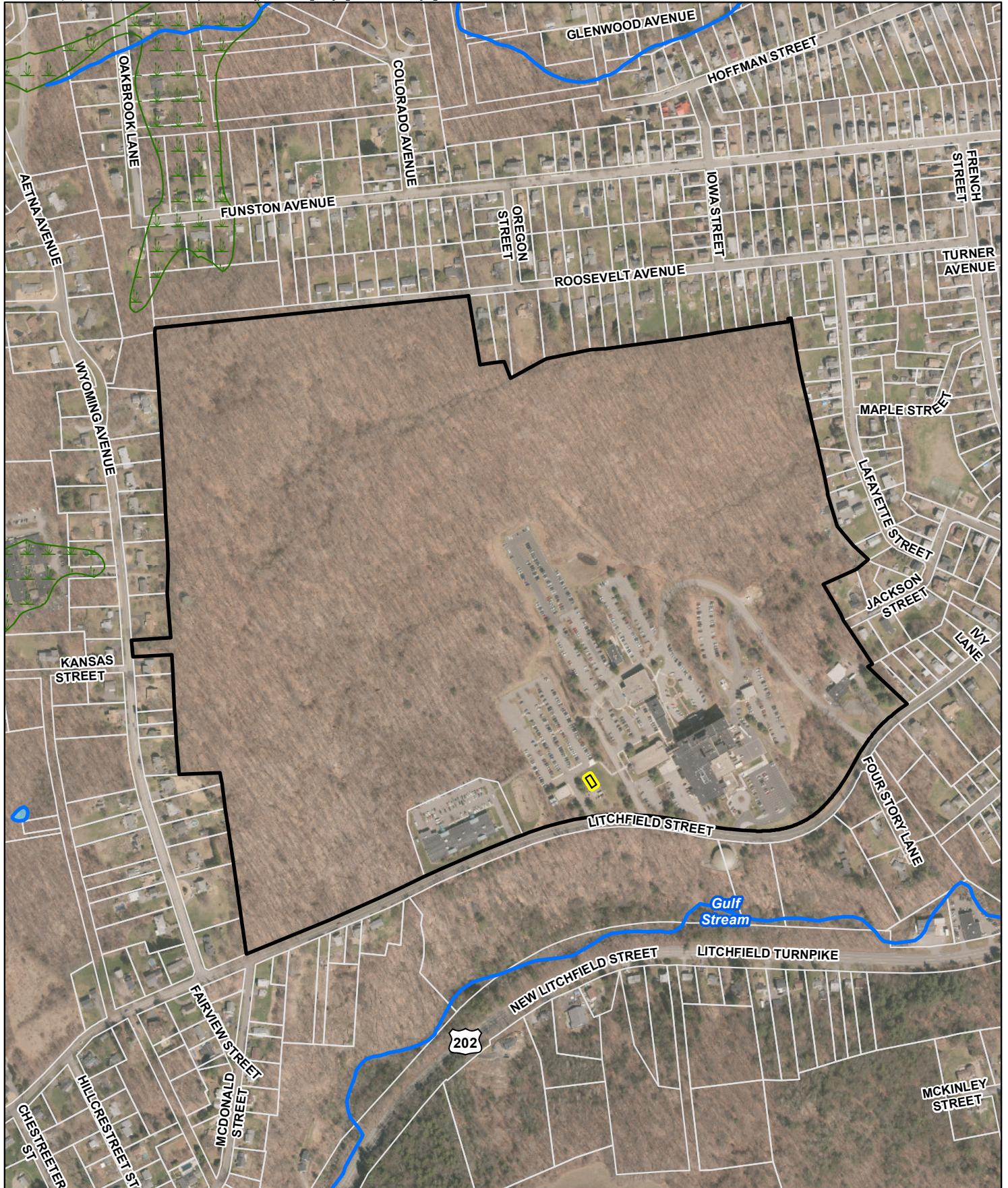
Proposed Bloom Energy Facility
Hartford HealthCare Property
540 Litchfield Street
Torrington, CT 06790

Bloom**energy**[®]



Bloomenergy®

Exhibit 7

**Legend**

- Subject Property
- Approximate Assessor Parcel Boundary (CTDEEP)
- New Energy Servers
- CTDEEP Watercourse
- CTDEEP Waterbody
- CTDEEP Wetlands

Map Notes:
 Base Map Source: 2016 Aerial Photograph (CTECC)
 Map Scale: 1 inch = 500 feet
 Map Date: September 2019

500 250 0 500
 Feet

Exhibit 7

CTDEEP Wetland and Watercourses

Proposed Bloom Energy Facility
 Hartford HealthCare Property
 540 Litchfield Street
 Torrington, CT 06790

Bloomenergy


Exhibit 8

**Legend**

- Subject Property
- Approximate Assessor Parcel Boundary (CTDEEP)
- New Energy Servers
- CTDEEP Watercourse
- CTDEEP Waterbody

FEMA Flood Zones (none in mapped extent)

- 100-Year Flood Zone
- 500-Year Flood Zone
- Floodway



Map Notes:
 Base Map Source: 2016 Aerial Photograph (CTECO)
 Map Scale: 1 inch = 500 feet
 Map Date: September 2019

500 250 0 500 Feet

Exhibit 8

FEMA Flood Zones

Proposed Bloom Energy Facility
 Hartford HealthCare Property
 540 Litchfield Street
 Torrington, CT 06790

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Exhibit 9

Calculation of Yuma Sound Pressure Based On Distance

By Bob Hintz 1/16

All calculations are based on the following formula for sound pressure level (L_p):

$$L_p = L_w - 10 \cdot \log \left(\frac{Q}{4\pi \cdot r^2} \right)$$

Sound power value (L_w) attained from V1 Yuma linear in DE reported on Feb. 4, 2015 by Mei Wu.

Scenario 1

ES is installed close to a building or tall wall so noise from the ES is reflected off of the structure and added to the noise from the other side of the ES making it sound louder than normal. This is represented by a directivity factor $Q = 4$

$$L_p = 44.7 \text{ dB}$$

Where:

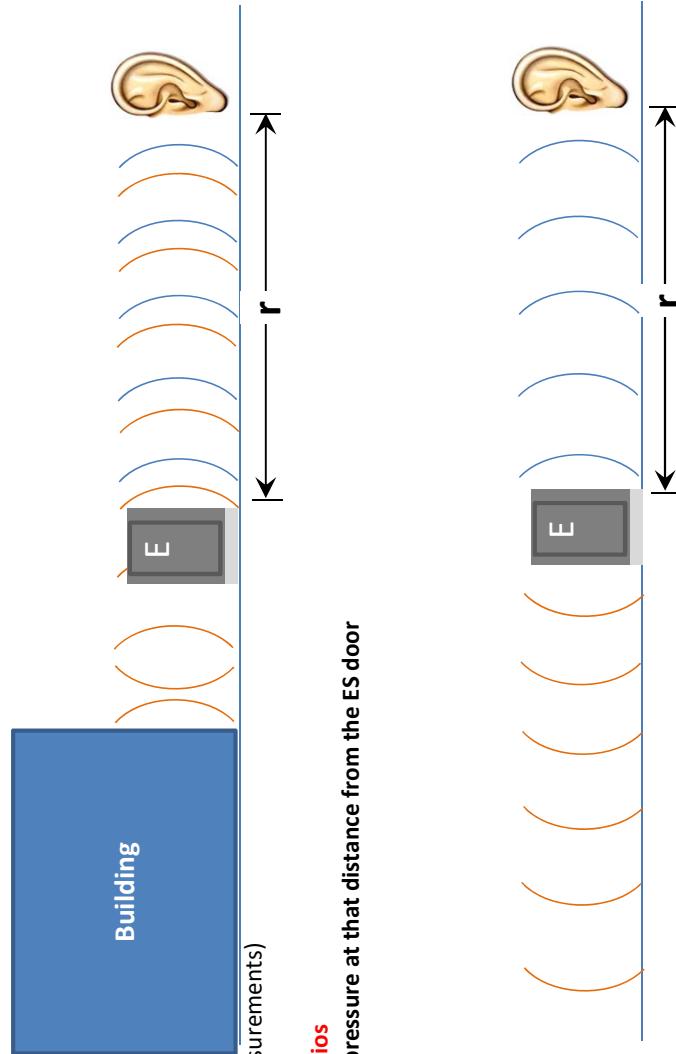
$L_w =$	86.4 dB
$Q =$	4
$r =$	159 Feet

ES sound power (Calc. from measurements)

Directivity factor

Enter value here for both Scenarios

Input various values for r to approximate the perceived sound pressure at that distance from the ES door



Scenario 2

ES is installed with no structures behind it to reflect sound from either side. This is represented by a directivity factor $Q = 2$

$$L_p = 41.7 \text{ dB}$$

Where:

$L_w =$	86.4 dB
$Q =$	2
$r =$	159 Feet

ES sound power (Calc.)

Directivity factor

Enter value here for both Scenarios

Input various values for r to approximate the perceived sound pressure at that distance from the ES door

Bloomenergy®

Exhibit 10

Notice and Service List Pursuant to Conn. Agencies Regs. § 16-50j-40(a)

Municipal and Elected Officials

Last Name	First Name	Title	Address	City	State	Postal Code
Carbone	Elinor	Mayor, City of Torrington	140 Main Street	Torrington	CT	06790
Connor	Martin J.	City Planner	140 Main Street	Torrington	CT	06790
Mele	Gregory	Chair, Planning & Zoning Commission	140 Main Street	Torrington	CT	06790
Bate	Jay	Chairman, Inland Wetlands Commission	140 Main Street	Torrington	CT	06790
Blumenthal	Richard	U.S. Senator	702 Hart Senate Office Building	Washington	DC	20510
Murphy	Chris	U.S. Senator	B40A Dirksen Senate Office Building	Washington	DC	20510
Hayes	Jahana	U.S. Representative	1415 Longworth House Office Building	Washington	DC	20515
Witkos	Kevin D.	State Senator, 68 th District	Legislative Office Building, Room 3402	Hartford	CT	06106-1591
Cook	Michelle L.	State Representative, 65 th District	Legislative Office Building, Room 4017	Hartford	CT	06106-1591
Tong	William	Connecticut Attorney General	55 Elm Street	Hartford	CT	06106
Dykes	Katie	Commissioner, Department of Energy and Environmental Protection	79 Elm Street	Hartford	CT	06106-5127
Paslick Gillett	Marissa	Chairman, Public Utilities Regulatory Authority	10 Franklin Square	New Britain	CT	06051
Coleman-Mitchell	Renée D.	Commissioner, Department of Public Health	410 Capitol Avenue	Hartford	CT	06134

Merrow	Susan D.	Chair, Council on Environmental Quality	79 Elm Street	Hartford	CT	06106
Hurlburt	Bryan P.	Commissioner, Department of Agriculture	450 Columbus Blvd., Suite 701	Hartford	CT	06103
McCaw	Melissa	Secretary, Office of Policy and Management	450 Capitol Avenue	Hartford	CT	06106
Giulietti	Joseph	Commissioner, Department of Transportation	2800 Berlin Turnpike	Newington	CT	06111
Lehman	David	Commissioner, Department of Economic and Community Development	450 Columbus Boulevard	Hartford	CT	06103
Rush-Kittle	Regina	Deputy Commissioner, Division of Emergency Management and Homeland Security (DEMHS)	1111 Country Club Road	Middletown	CT	06457
Seagull	Michelle H.	Commissioner, Department of Consumer Protection	450 Columbus Boulevard, Suite 901	Hartford	CT	06103
Geballe	Josh	Commissioner, Department of Administrative Services	450 Columbus Boulevard	Hartford	CT	06103
Westby	Kurt	Commissioner, Department of Labor	200 Folly Brook Boulevard	Wethersfield	CT	06109
		Northwest Hills Council of Governments	59 Torrington Road, Suite A-1	Goshen	CT	06756

Abutter Properties

M/B/L	Property Address	Owner Name	Street	City	State	Zip
112/004/005	540 Litchfield Street	Charlotte Hungerford Hospital	540 Litchfield St.	Torrington	CT	06790
102/006/001	171 Wyoming Avenue	Douglas B. & Thu H. Sloan	171 Wyoming Ave.	Torrington	CT	06790

102/006/002	189 Wyoming Avenue	Lena W. Troland	189 Wyoming Ave.	Torrington	CT	06790
102/008/001	928 Litchfield Street	Carol Grenuck Bukovics	928 Litchfield St.	Torrington	CT	06790
102/008/002	44 Wyoming Avenue	Adam & Sherry Artruc	44 Wyoming Ave.	Torrington	CT	06790
102/008/003	60 Wyoming Avenue	Darrin W. Wheeler	60 Wyoming Ave.	Torrington	CT	06790
102/008/004	74 Wyoming Avenue	Donna M. & Christopher W. Sykes	74 Wyoming Ave.	Torrington	CT	06790
102/008/005	86 Wyoming Avenue	Brian F. McDonnell & Bettyjo Kristofak	86 Wyoming Ave.	Torrington	CT	06790
102/008/006	100 Wyoming Avenue	Bridgit N. Orioles	100 Wyoming Ave.	Torrington	CT	06790
102/008/007	114 Wyoming Avenue	Bruce C. & Shirley J. Snyder	114 Wyoming Ave.	Torrington	CT	06790
102/008/008	128 Wyoming Avenue	Jeffrey T. Gangloff & Surv., Patricia G. Kosarcik	128 Wyoming Ave.	Torrington	CT	06790
102/008/009	136 Wyoming Avenue	Gail Senese	PO Box 356	Freeport	ME	04032
102/008/010	148 Wyoming Avenue	Dale Cole, Jr.	148 Wyoming Ave.	Torrington	CT	06790
102/008/011	162 Wyoming Avenue	Kirk W. & Christina Hayes	162 Wyoming Ave.	Torrington	CT	06790
102/008/012	188 Wyoming Avenue	Raymond Poll	188 Wyoming Ave.	Torrington	CT	06790
102/009/001	0 Litchfield Street	Peter S. Febbroriello & Carol A. Hanny	847 Litchfield St.	Torrington	CT	06790
102/009/002	0 Litchfield Street	Peter S. Febbroriello & Carol A. Hanny	847 Litchfield St.	Torrington	CT	06790
102/009/004	11 MacDonald ST	Dean P. & Lauryn Hartz	11 MacDonald St.	Torrington	CT	06790
102/010/001	0 Litchfield Street	Michael J. Weber	24 McDonald St.	Torrington	CT	06790
103/007/002	220 Wyoming Avenue	Janice Riley	220 Wyoming Ave.	Torrington	CT	06790
103/007/003	232 Wyoming Avenue	Brian J. Hanecak	232 Wyoming Ave.	Torrington	CT	06790
103/007/004	248 Wyoming Avenue	Marie A. Dvileskis	248 Wyoming Ave.	Torrington	CT	06790
103/007/005	260 Wyoming Avenue	Ashley E. Ernst & Jason M. Bushey	260 Wyoming Ave.	Torrington	CT	06790
103/007/006	270 Wyoming Avenue	Mark Cuozzo, Denise M. Nowak et al.	709 Niles Rd.	New Hartford	CT	06057
103/007/007	300 Wyoming Avenue	Bruce A. & Monica M. Gelbar	300 Wyoming Ave.	Torrington	CT	06790
103/007/008	0 Sunset Drive	Ronda B. Burns	587 Litchfield St.	Torrington	CT	06790
103/008/008	1 Oakbrook Lane	Thomas John & Eileen Rae McLeod	1 Oakbrook Ln.	Torrington	CT	06790
103/011/001	334 Roosevelt Avenue	Jennifer A. Skibisky & Randy B. Jenkins	334 Roosevelt Ave.	Torrington	CT	06790

103/011/004	405 Funston Avenue	B & D Enterprise Inc.	64 Crossman Rd.	Goshen	CT	06756
103/011/008	0 Roosevelt Avenue	Karl H. Duksis	469 Funston Ave.	Torrington	CT	06790
103/011/009	0 Roosevelt Avenue	Samuel & Catherine Massameno	UNKNOWN	UNKNOWN		
111/001/001	144 Jackson Street	Joshua D. Stoughton	144 Jackson St.	Torrington	CT	06790
111/001/004	0 Jackson Street	Peter A. & Erin L. Rogala	33 Oxford Way	Torrington	CT	06790
111/001/005	218 Lafayette Street	Michael E. Hohensee, Jr.	218 Lafayette St.	Torrington	CT	06790
111/001/006	188 Lafayette Street	Vittorio Cristiano	371 Allen Rd.	Torrington	CT	06790
111/001/007	180 Lafayette Street	Rosario & Lena aka Lina Cristiano & Caterina Colao & Rosa Maria Daigle et al.	180 Lafayette St.	Torrington	CT	06790
111/001/008	164 Lafayette Street	Brian T. & Cindy L. Viarengo	164 Lafayette St.	Torrington	CT	06790
111/001/009	156 Lafayette Street	Ana Nuez	156 Lafayette St.	Torrington	CT	06790
111/001/010	138 Lafayette Street	Guillermo Rueda Hernandez, David Balcarcel & Jennifer Rueda	138 Lafayette St.	Torrington	CT	06790
111/001/011	126 Lafayette Street	Scott A. Stanley	126 Lafayette St.	Torrington	CT	06790
111/001/012	120 Lafayette Street	Francesco & Viovannina Nania	120 Lafayette St.	Torrington	CT	06790
111/001/013	108 Lafayette Street	Floyd A. & Aldith Myrie	158 Oakbrook Ln	Torrington	CT	06790
111/001/014	94 Lafayette Street	Richard Carnevale	94 Lafayette St.	Torrington	CT	06790
111/001/019	91 Roosevelt Avenue	Paul J. & April Carmen	91 Roosevelt Ave.	Torrington	CT	06790
111/001/020	99 Roosevelt Avenue	Dolores A. Abbott	99 Roosevelt Ave.	Torrington	CT	06790
111/001/021	109 Roosevelt Avenue	Howard & Diane Roster	109 Roosevelt Ave.	Torrington	CT	06790
111/001/022	115 Roosevelt Avenue	E. Roger & Karen E. Schrager	115 Roosevelt Ave.	Torrington	CT	06790
111/001/023	123 Roosevelt Avenue	Todd H. Correll et al.	48 Flagg Hill Rd.	Winsted	CT	06098
111/001/024	131 Roosevelt Avenue	Kevin J. & Suzanne M. Tagan	131 Roosevelt Ave.	Torrington	CT	06790
111/001/025	137 Roosevelt Avenue	Michael E. Jarecki	137 Roosevelt Ave.	Torrington	CT	06790
111/001/026	151 Roosevelt Avenue	Paul Gerbi	151 Roosevelt Ave.	Torrington	CT	06790
111/001/027	157 Roosevelt Avenue	George Cerruto, George J. & Brian C. Cerruto	157 Roosevelt Ave.	Torrington	CT	06790

111/001/028	169 Roosevelt Avenue	Roxanne Paris	169 Roosevelt Ave.	Torrington	CT	06790
111/001/029	183 Roosevelt Avenue	Paul Gerbi & Hugo S. Gerbi	183 Roosevelt Ave.	Torrington	CT	06790
111/001/030	191 Roosevelt Avenue	Kassandra Putetti	191 Roosevelt Ave.	Torrington	CT	06790
111/001/031	199 Roosevelt Avenue	Joan D. Mount	199 Roosevelt Ave.	Torrington	CT	06790
111/001/032	207 Roosevelt Avenue	Bogdan & Wieslawa Pyzik	237 Nicholson St.	Newington	CT	06111
111/001/033	217 Roosevelt Avenue	William J. & Arlene N. Poole	217 Roosevelt Ave.	Torrington	CT	06790
111/001/034	233 Roosevelt Avenue	Joshua D. Dailey	233 Roosevelt Ave.	Torrington	CT	06790
111/001/035	253 Roosevelt Avenue	Gale & John Falcone	126 MacDonald St.	Torrington	CT	06790
111/001/036	243 Roosevelt Avenue	Scott M. Marin & Surv., Theresa A. Hopkins	243 Roosevelt Ave.	Torrington	CT	06790
111/002/001	40 Oregon Street	Michael J. Fador	40 Oregon St.	Torrington	CT	06790
111/002/014	322 Roosevelt Avenue	Edven Jean & Hina Ali	322 Roosevelt Ave.	Torrington	CT	06790
111/002/015	310 Roosevelt Avenue	Michael Ocasio	310 Roosevelt Ave.	Torrington	CT	06790
111/002/016	290 Roosevelt Avenue	Matthew & Niccole English	290 Roosevelt Ave.	Torrington	CT	06790
111/002/017	270 Roosevelt Avenue	James Schiele & Surv., Jessie Elliott	270 Roosevelt Ave.	Torrington	CT	06790
111/002/019	282 Roosevelt Avenue	Jamie Figueiroa	65 E. 112th St., Apt. 11A	New York	NY	10029
111/002/020	300 Roosevelt Avenue	Mario & Jennifer H. Lopez	300 Roosevelt Ave.	Torrington	CT	06790
112/004/004	147 Jackson Street	Jeffrey T. Cristaldi	147 Jackson St.	Torrington	CT	06790
112/004/006	514 Litchfield Street	Thomas A. & Joanna E. Berger	514 Litchfield St.	Torrington	CT	06790
112/004/015	780 Litchfield Street	Charlotte Hungerford Hospital, Medical Properties LLC - David Seymour, c/o Kingsbrook Development Corp.	290 Pratt St.	Meriden	CT	06450
112/005/023	503 Litchfield Street	Herman & Shirley M. Cyr	503 Litchfield St.	Torrington	CT	06790
112/005/024	521 Litchfield Street	Allen James Bedick & Surv., Cassandra Lee Marko	521 Litchfield St.	Torrington	CT	06790
112/005/025	0 Litchfield Street	Charlotte Hungerford Hospital	540 Litchfield St.	Torrington	CT	06790
112/005/026	0 Litchfield Street	Patricia B. Keefe & Marijo B. Weik	10 Turkey Hollow Ln.	Goshen	CT	06756

112/005/030	0 Litchfield Street	Patricia B. Keefe & Marijo B. Weik	10 Turkey Hollow Ln.	Goshen	CT	06756
112/005/031	587 Litchfield Street	Ronda B. Burns & Harold J. Burns Est.	587 Litchfield St.	Torrington	CT	06790
112/005/032	0 Litchfield Street	Torrington Water Co.	PO Box 867	Torrington	CT	06790
112/005/033	0 New Litchfield Street	Charlotte Hungerford Hospital	540 Litchfield St.	Torrington	CT	06790
112/005/034	814 New Litchfield Street	Emily Wyche	814 New Litchfield St.	Torrington	CT	06790
112/005/035	839 Litchfield Street	Michael Pollutro	839 Litchfield St.	Torrington	CT	06790
112/005/036	857 Litchfield Street	Sara A. Norton	132 Union City Rd.	Prospect	CT	06712
112/005/037	847 Litchfield Street	Peter S. Febboriello & Carol A. Hanny	847 Litchfield St.	Torrington	CT	06790



VIA CERTIFICATE OF MAILING

September 16, 2019

RE: Application of Bloom Energy for the location and construction of three (3) new ES-5 Bloom Energy Server solid oxide fuel cells to provide 750 Kilowatts of Customer-Side Distributed Resource at 540 Litchfield Street, Torrington, Connecticut

Dear Ladies and Gentlemen:

Pursuant to Section §16-50j-40 of the Connecticut Siting Council's (the "Council") regulations, we are notifying you that Bloom Energy intends to file, on or about September 20, 2019, a petition for declaratory ruling with the Council. The petition will request the Council's approval of the location and construction of a 750-kilowatt (KW) fuel cell installation and associated equipment. The Facility will be located at Charlotte Hungerford Hospital/Hartford Health Care ("HHC") at 540 Litchfield Street in Torrington, Connecticut (the "Site").

The purpose of the proposed Facility is to replace the average baseload of HHC's operations at that location with a renewable energy source¹ and improve reliability of electrical systems and equipment. Electricity generated by the Facility will be consumed primarily at the Site, and any excess electricity will be exported to the electric grid. The Facility will be fueled by natural gas.

Keeping the lines of communication open is an important part of our work in your community. If you have questions about this work, please contact the undersigned or the Council.

Respectfully,

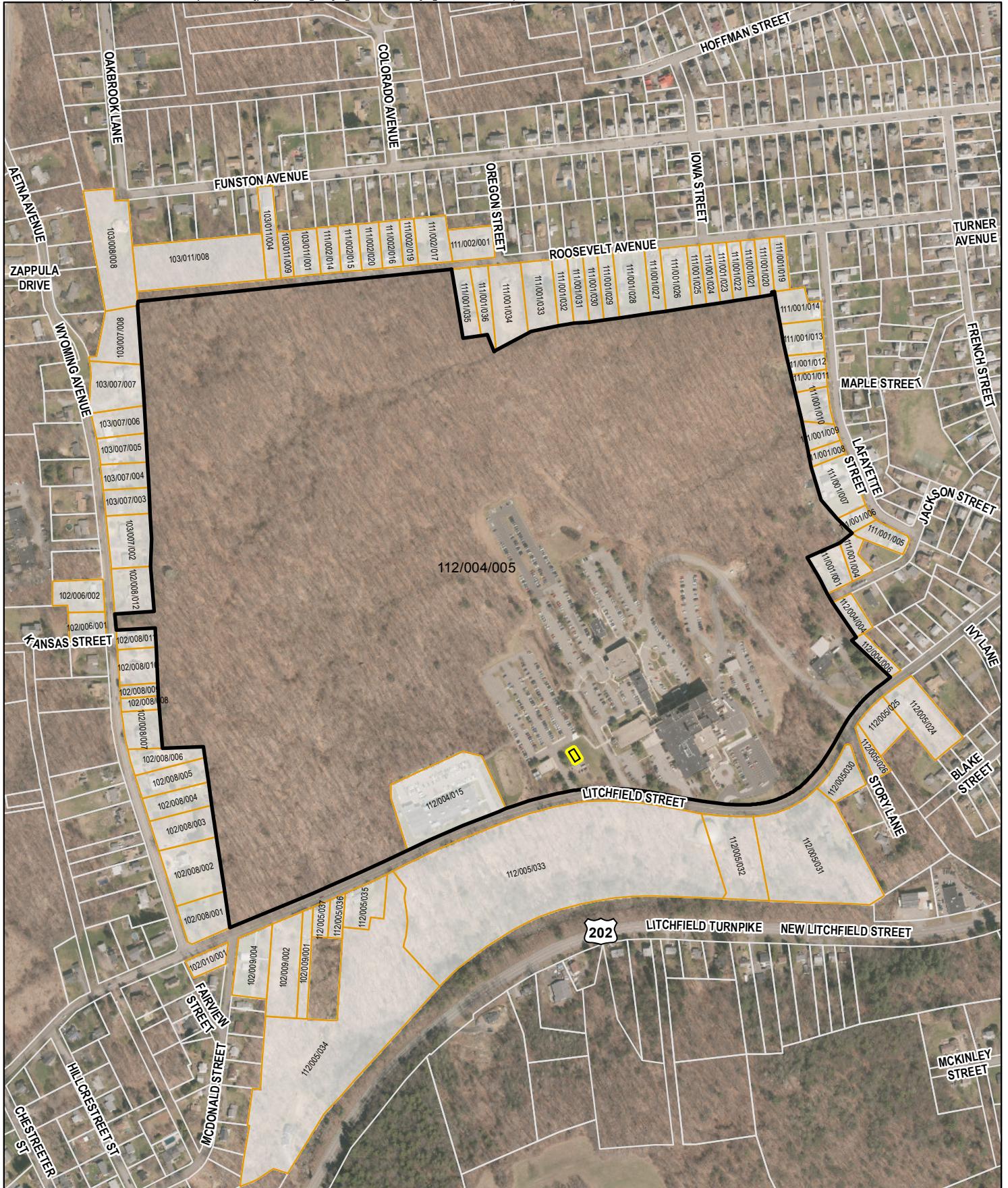


Justin Adams
justin.adams@bloomenergy.com

Be

¹Connecticut General Statutes §16-1(a)(26)(A) identifies fuel cells as a "Class I renewable energy source"

Exhibit 11

**Legend**

- Subject Property
- Abutting Property
- New Energy Servers

Map Notes:
 Base Map Source: 2016 Aerial Photograph (CTECC)
 Map Scale:
 Map Date: September 2019

Exhibit 11 Abutters Map

Proposed Bloom Energy Facility
Hartford HealthCare Property
540 Litchfield Street
Torrington, CT 06790

Bloomenergy

 ALL-POINTS
TECHNOLOGY CORPORATION

Exhibit 12

Jennifer Young Gaudet

From: Martin J Connor <Martin_Connor@torringtonct.org>
Sent: Monday, September 16, 2019 9:27 AM
To: Jennifer Young Gaudet
Cc: Rista Malanca; Paul Kundzins
Subject: FW: Bloom Energy fuel cell installation - Charlotte Hungerford Hospital/Hartford Healthcare
Attachments: Plans - Charlotte Hungerford-Hartford Healthcare.pdf

Hi Jennifer, I've reviewed the plans you've forwarded depicting the proposed fuel cell installation. I don't see any problems with the proposed location. We are very supportive of the use of this alternative energy source. Thanks,

Martin J Connor, AICP, City Planner
City of Torrington
140 Main Street
Torrington, CT 06790
860-489-2220

From: Jennifer Young Gaudet <jyounggaudet@allpointstech.com>
Sent: Friday, September 13, 2019 7:25 AM
To: Martin J Connor <Martin_Connor@torringtonct.org>
Subject: Bloom Energy fuel cell installation - Charlotte Hungerford Hospital/Hartford Healthcare

Dear Mr. Connor:

All-Points Technology is working with Bloom Energy on plans for a fuel cell installation at Charlotte Hungerford Hospital. Bloom will submit a petition to the Connecticut Siting Council for approval. In preparation for the filing, we are seeking any comment you or other appropriate City staff may have on the proposed plans. Attached are plans depicting the proposed installation. As shown, the Bloom energy servers will be placed adjacent to the parking lot located west of the main hospital building.

I am available to discuss the plans or answer any questions you may have. I can be reached by phone at the number below or by e-mail.

Thank you.

Mogliu# xoj# dgh#

Jennifer Young Gaudet
Program Manager



860.798.7454 (M)