

What Powers You

March 11, 2022

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

RE: Petition of Bloom Energy Corporation for a Declaratory Ruling for the Location and Construction of a 2,000-Kilowatt Fuel Cell Customer-Side Distributed Resource at Bridgeport Hospital (Yale New Haven Health), Bridgeport, 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 construction and operation of a 2,000-kilowatt fuel cell and associated equipment at Bridgeport Hospital, an affiliate of Yale New Haven Health (“Hospital”) in Bridgeport, Connecticut (the “Facility”). The Facility will be installed on Hospital property at 267 Grant Street and along Mill Hill Avenue (the “Site”). Electricity generated by the Facility will benefit the Hospital’s operation, 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 (917) 803-4511.

Sincerely,
Bloom Energy



Kristen Grillo
kristen.grillo@bloomenergy.com
(917) 803-4511



Bloom Energy Corporation
4353 North First Street, San Jose, CA 95134
408 543 1500
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**STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL**

PETITION OF BLOOM ENERGY CORPORATION : PETITION NO. ____
FOR A DECLARATORY RULING FOR THE :
LOCATION AND CONSTRUCTION OF A :
2,000-KILOWATT FUEL CELL CUSTOMER-SIDE :
DISTRIBUTED RESOURCE AT BRIDGEPORT :
HOSPITAL, 267 GRANT STREET, BRIDGEPORT, CT : MARCH 11, 2022

PETITION OF BLOOM ENERGY CORPORATION
FOR A DECLARATORY RULING

I. INTRODUCTION

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 at Bridgeport Hospital/Yale New Haven Health (the “Hospital”), at 267 Grant Street, Bridgeport, Connecticut (the “Site”)¹. Bloom will install a fuel cell consisting of seven (7) ES-5 Bloom Energy Server solid oxide fuel cells and associated equipment (the “Facility”) that will provide a total of 2,000 kilowatts (“kW”) (net) of power to the Site. *See* Exhibits 1 and 3. The Facility will be installed, maintained and operated by Bloom under a 15-year power purchase agreement with Yale New Haven Health Services Corporation (“Yale New Haven”) owned by a third-party financing source. The Facility has been selected as part of the LREC program.

¹ The Hospital complex consists of several parcels along Grant Street and Mill Hill Avenue. The Hospital’s address is 267 Grant Street; Grant Street between Mill Hill Avenue and Central Avenue has been discontinued to create an entrance and pedestrian plaza.

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....

The proposed fuel cell 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.

II. COMMUNICATIONS

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

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III. DISCUSSION

A. The Facility

The Facility will be a 2,000-kW customer-side distributed resource consisting of seven (7) Bloom solid oxide fuel cell Energy Servers, two (2) model ES5-YASAAN, three (3) model ES5-YA8AAN and one (1) each models ES5-EAXAAN and ES5-EA2AAN; and associated equipment. As shown on Exhibits 2 and 3, the fuel cell and associated equipment (utility

cabinets, water deionizers, telemetry cabinets, and disconnect switches) will be installed adjacent to an existing parking lot in the northern portion of the Site.

Connections to existing utilities will extend underground through the Hospital's parking garage, the transition to above ground, connecting to and extending along the exterior of the Hospital building. Connections will extend into the building at two points, and from there extend within the building to electrical, telco and water utilities in lower levels of the Hospital building. The Facility will be fueled by natural gas supplied by Southern Connecticut Gas from a gas main on Mill Hill Avenue. Exhibits 1 and 2 depict the Facility location; Exhibit 3 contains plans; Exhibit 4 contains photographs and equipment specifications.

Bloom has sized the system at 2,000 KW based on consultation with Yale New Haven representatives and analysis of the Hospital's operational needs. The Facility will replace a portion of the average baseload of the Site with a Class I renewable energy source and improve reliability of electrical systems and equipment. The Facility has been sized to provide at least 69% of the Hospital's average annual baseload. Exhibit 4. Electricity generated by the Facility will be consumed primarily at the Site and any excess electricity will be exported to the grid.

The operational life of the Facility is for the life of the 15-year contract with Yale New Haven. At the conclusion of the 15-year contract, Yale New Haven may renew the contract, return the Facility at no cost, or buy the Facility at a fair market value.

The interconnection application for the Facility was filed with United Illuminating in January 2022; approval is anticipated in April 2022.

B. Public Health and Safety

The Facility will be installed in compliance with applicable building, plumbing, electrical, and fire codes. The Facility is enclosed, factory-assembled and tested prior to installation on the Site. Solid oxide media in the fuel cells are exchanged at roughly five-year

intervals. Extensive hardware, software and operator safety control systems are utilized, and will be controlled from a Bloom Energy Remote Monitoring Control Center (“RMCC”). Internal sensors continuously monitor system operation and provide for system components to shut down if safety circuits detect a condition outside normal operating parameters; the RMCC operator can initiate an emergency shutdown if warranted. City of Bridgeport (“City”) Fire Department personnel and Hospital operations/emergency personnel will be provided with an Emergency Response Plan. Exhibit 6.

The Facility will be installed in accordance with NFPA 853². The Facility does not burn natural gas; it is used in a chemical reaction to generate electricity, and is digested almost immediately upon entering the unit and is no longer combustible. Before commissioning, the fuel lines (pipes) are cleaned in accordance with Conn. Gen. Stat. Section 16-50ii³.

C. Existing and Proposed Environment

i. The Site

The Site is located in the southeastern part of the City, south of U.S Route 1. The surrounding area contains a mix of residential, institutional and commercial development as well as major local arteries.

The Site consists of five parcels totaling approximately 4.75 acres, located at the eastern end of the Central Business District (CBD) zone. The Hospital building and associated parking garage occupy the southern part of the Site; the northern part consists of several surface parking areas and includes the Hospital’s Emergency Room entrance. The fuel cell installation will be located in the northwestern corner of the Site, on a grassy area. Limited clearing will be required;

² Standard for the Installation of Stationary Fuel Cell Power Systems, 2015 Edition

³ Public Act 11-101, An Act Adopting Certain Safety Recommendations of the Thomas Commission

several shrubs will be removed and the existing trees and shrubs at the western property line will be trimmed to ensure adequate clearance.

The Facility is designed to take advantage of existing infrastructure, including utilities, with little or no impact on operational requirements and traffic and pedestrian flow within the Site. After completion of construction, parking spaces will be unaffected.

ii. Wildlife and Habitat

Based on a review of the publicly available Connecticut Department of Energy and Environmental Protection (DEEP) Natural Diversity Database (NDDDB) December 2021 data, the proposed Facility is not within an NDDDB area, an identified location of endangered, threatened and special concern species or significant natural community. Exhibit 5. Therefore, no consultation with DEEP NDDDB is required.

The Site and the surrounding vicinity are extensively developed with buildings and paved surfaces. The addition of the Facility within an extensively developed and paved area will have no effect on wildlife habitat.

iii. Wetlands and Watercourses

There are no identified wetland or watercourse resources within or proximate to the proposed Site. Therefore, the Facility will not have any adverse effect on wetlands or watercourses. As described herein, appropriate erosion and sedimentation control measures will be employed during construction.

iv. 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") shows the Facility would not be located in either a 100-year or 500-year flood zone. *See Exhibit 5.*

The Site was also reviewed for proximity to Aquifer Protection Areas. According to GIS data provided by DEEP, the nearest Aquifer Protection Area is approximately 8.9 miles east of the Site.

i. Cultural Resources

The Site, including the Facility location, has been previously developed and disturbed. The construction and operation of the Facility will therefore not have a substantial adverse effect on cultural (archaeological and historical) resources.

D. Environmental Effects and Mitigation

i. Natural Gas Desulfurization Process

Sulfur compounds that are added to natural gas as an odorant are removed in the first step of electricity production in a Bloom Energy Server. Sulfur is separated from the natural gas by filtering in a specialized canister within the Energy Server (the “Desulf Unit”) that uses a copper catalyst to remove the sulfur. The Desulf Units are periodically removed and replaced. The spent units are transported to ShoreMet, L.L.C. (ShoreMet) in Indiana, 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. Handling and transportation are performed in accordance with hazardous waste restrictions.

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.

The Facility is designed to operate without water discharge under normal operating conditions. There are no connections or discharge points to the proposed Facility. The Facility uses no water after start-up, which requires a 672-gallon injection.

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 exempts fuel cells from air permitting requirements. Accordingly, no permits, registrations, or applications are required based on the actual emissions from the Facility.⁴ It should be noted, however, that Bloom Energy fuel cells do meet the emissions standards of Section 22a-174-42.

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) program⁵, and compares them to emissions generated from the proposed Facility. By virtue of the non-combustion process the Bloom Energy fuel cells virtually eliminate NO_x, SO_x, CO, VOCs and particulate matter emissions from the energy production process. Similarly, there are no CH₄, SF₆, HFC or PFC emissions.

Table 1: Connecticut Thresholds for Greenhouse Gases

Emission Type	Bloom Output	LREC allowance
Nitrous Oxides (NO _x)	<0.01 lbs/MWh	0.07 lbs/MWh
Carbon Monoxide (CO)	<0.05 lbs/MWh	0.10 lbs/MWh
Sulfur Oxides (SO _x)	Negligible	Not Listed
Volatile Organic Compounds (VOCs)	<0.02 lbs/MWh	0.02 lbs/MWh
Carbon Dioxide (CO ₂) ⁶	679-833 lbs/MWh	Not Listed

The proposed Facility will ultimately displace less efficient fossil fueled marginal generation on the ISO New England system. Based upon US Environmental Protection Agency

⁴ See Conn. Agencies Regs. §§ 22a-174-42(b) and (e).

⁵ Sec. 16-244t

⁶ Carbon dioxide is measured at Bloom’s stated lifetime efficiency level of 53-60%.

(EPA) “eGrid” data, the proposed Facility is expected to reduce carbon emissions by more than 25% while essentially eliminating local air pollutants like NO_x, SO_x, and particulate matter.

The City’s Plan of Conservation and Development (“POCD”), adopted April 22, 2019, promotes energy conservation and sustainability as part of its Guiding Principles. The City’s Zoning Code, effective January 1, 2022, includes among its purposes “[i]mplementing the policies and goals of the master plan [POCD]....”

iii. Sound Levels

The Facility will comply with State of Connecticut regulations for the Control of Noise. The City’s noise ordinance adopts the same zone noise classifications and standards as the State regulations.

Bloom retained Veneklasen Associates to evaluate the impact of noise from the proposed Facility on adjacent property lines and sensitive noise receptors. *See* Exhibit 7, Veneklasen Associates Fuel Cell Acoustical Analysis (“Report”). As indicated in the Report, noise levels at Site property lines are in compliance with State and City regulations without mitigation.

The City noise ordinance prohibits construction activities Monday through Friday, 6:00 p.m. to 7:00 a.m. and Saturday and Sunday, 6:00 p.m. to 9:00 a.m. Bloom typically performs project construction Monday through Friday, 7:00 a.m. to 5:00 p.m.

ix. Visual Effects

The visual effect of the Facility will be minimal, and primarily within the Site. The addition of the Facility is minor relative to the existing Site development. Some visibility of the Facility will be experienced from portions of Mill Hill Avenue to the west and north; views will often be partially obscured by vehicles utilizing the parking lot and existing trees and vegetation. The Hospital building will obscure views from the south, and the former Harding High School will obscure views from the east.

E. Project Construction and Maintenance

Bloom anticipates construction to start in the late second/early third quarter of 2022 with approximately four months of total construction time (4 - 6 weeks of site prep, 4 - 6 weeks of installation, and 4 – 6 weeks of commissioning).

Construction of the Facility would conform to best management practices for erosion and sedimentation (“E&S”) controls, including those provided for in the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control. 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.

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.

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

IV. NOTICE AND CONSULTATION

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). Lists of officials and abutting property owners, a copy of the notice letter and documentation of mailing are provided in Exhibit 8.

A representative of Bloom contacted Mr. Dennis Buckley, City Zoning Administrator by email on December 8, 2021 and provided plans for the proposed Facility for review and comment. No comments have been received to date. *See* Exhibit 9.

V. CONCLUSION


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 proposed project will replace a portion of the Site's baseload with a Class I renewable energy source, assist in achieving the State's sustainability goals, and improve reliability of electrical systems and equipment.

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. Accordingly, Bloom respectfully requests that the Council approve the proposed Facility by declaratory ruling.

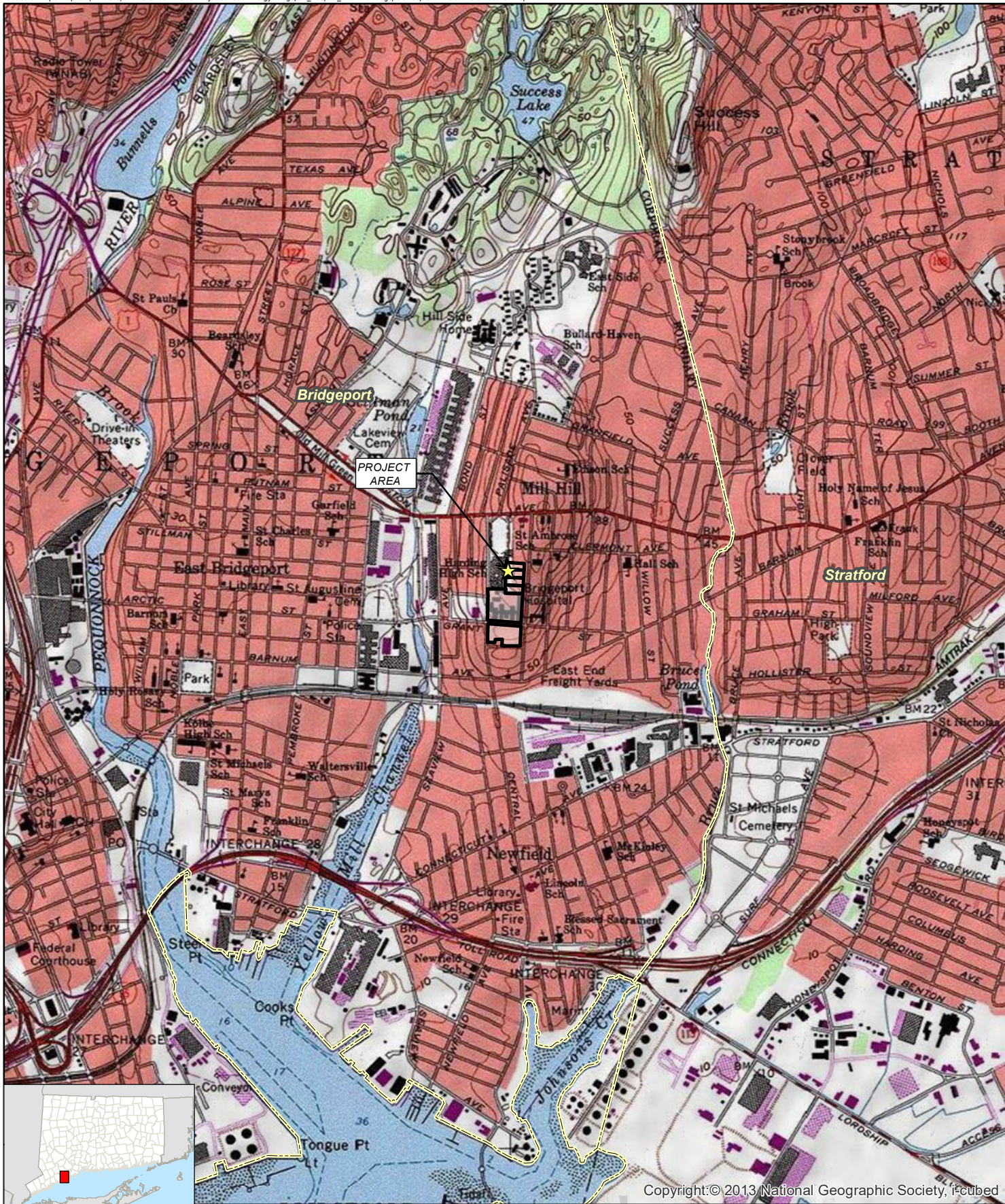
Respectfully submitted,

Bloom Energy Corporation

By: 




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Exhibit 1

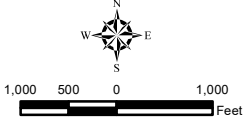


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Legend

-  Project Area
-  Site
-  Municipal Boundary (CTDEEP)

Map Notes:
 Base Map Source: USGS 7.5 Minute
 Topographic Quadrangle Map: Bridgeport, CT (1984)
 Map Scale: 1:24,000
 Map Date: March 2022

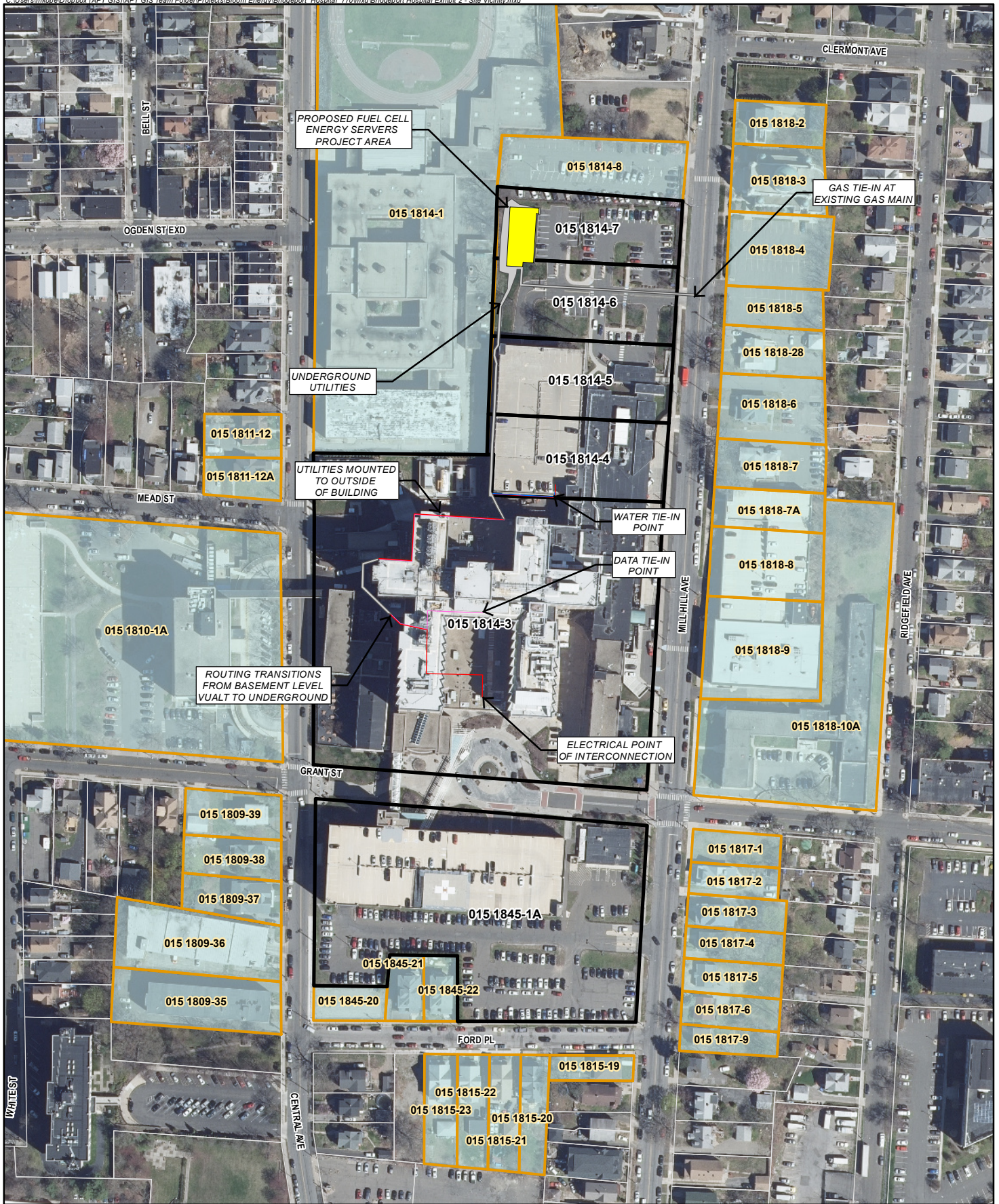


**Exhibit 1
 Site Location Map**










Proposed Bloom Energy Facility
 Yale New Haven
 Health System
 267 Grant Street
 Bridgeport, Connecticut



Exhibit 2



Legend

-  Site
-  Abutting Property
-  Approximate Assessor Parcel Boundary
-  Project Area
-  Limit of Disturbance/Underground Utilities
-  Electrical Service
-  Water Service
-  Gas Service
-  Data Service

Map Notes:
 Base Map Source: CTECO 2019 Aerial Photograph
 Map Scale: 1 inch = 200 feet
 Map Date: March 2022



**Exhibit 2
 Site Vicinity**

Proposed Bloom Energy Facility
 Yale New Haven
 Health System
 267 Grant Street
 Bridgeport, Connecticut



Exhibit 3

REVISION HISTORY		
REV	REVISION ISSUE	DATE
-	INITIAL RELEASE	11/12/2021

DESIGNED BY SASHA SCARLAT	REVIEWED BY KATE TAYLOR
DRAWN BY YASHODHA NAVEEN	APPROVED BY CARSON P. TURNER

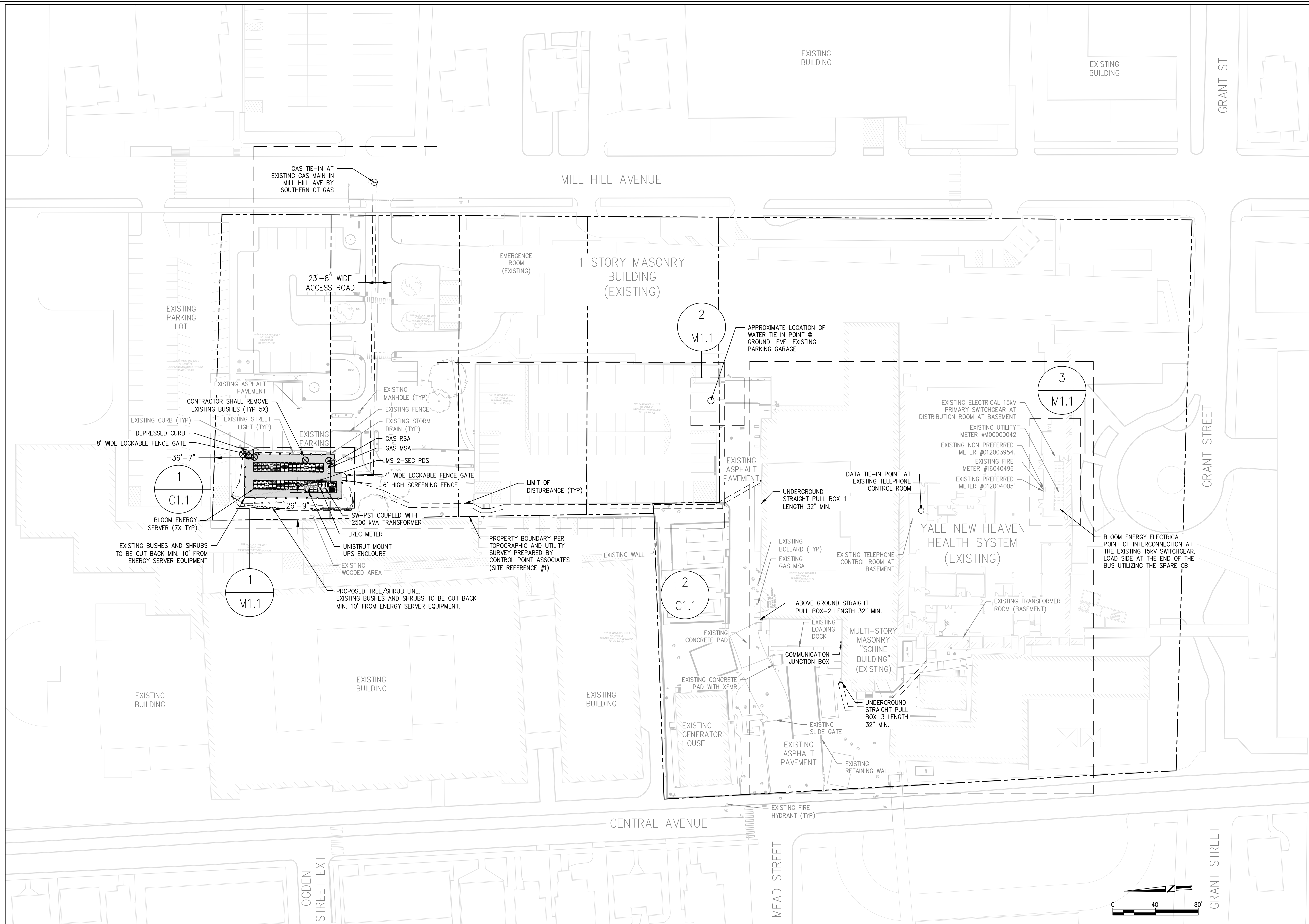
SHEET TITLE

OVERALL
SITE PLAN

DRAWING NUMBER
G1.1

BLOOM DOCUMENT
DOC-1014045

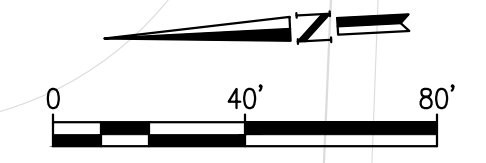
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SITE ID: YNH004.0 SHEET 03 OF 16

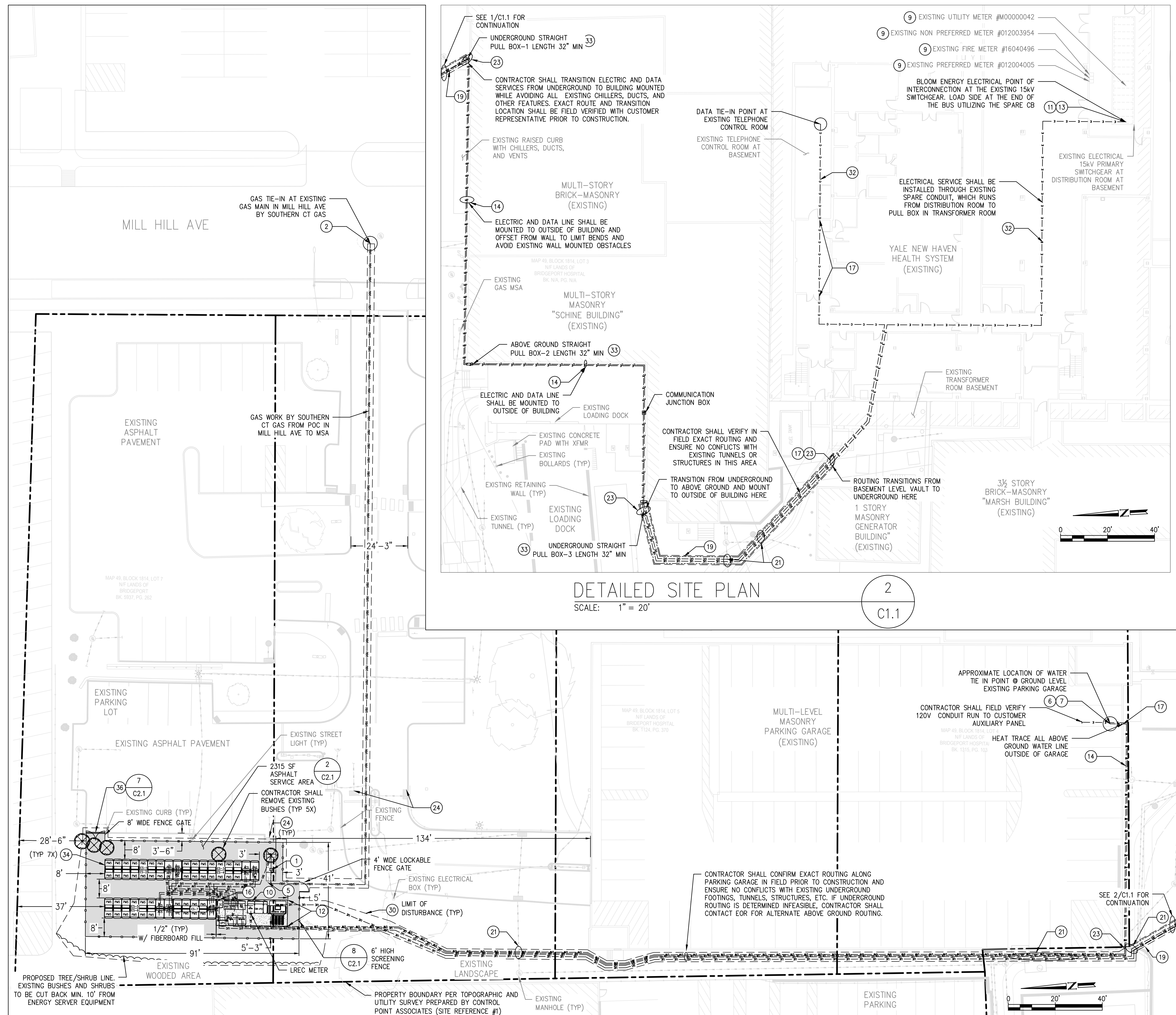


SITE REFERENCE NOTES:
1. BOUNDARY, TOPOGRAPHIC, AND UTILITY SURVEY PREPARED BY CONTROL POINT ASSOCIATES, INC., DATED OCTOBER 19, 2021
2. MASTER PLAN - EXISTING FLOOR PLAN PREPARED BY BRIDGEPORT HOSPITAL, INC., DATED MARCH 14, 2017.
3. BING MAPS.

OVERALL SITE PLAN
SCALE: 1" = 40'

1
G1.1





SITE REFERENCE NOTES:
 1. BOUNDARY, TOPOGRAPHIC, AND UTILITY SURVEY PREPARED BY CONTROL POINT ASSOCIATES, INC., DATED OCTOBER 19, 2021
 2. MASTER PLAN - EXISTING FLOOR PLAN PREPARED BY BRIDGEPORT HOSPITAL, INC., DATED MARCH 14, 2017.
 3. BING MAPS.

DETAILED SITE PLAN
 SCALE: 1" = 20'
 1
 C1.1

GENERAL NOTES

- CLEAN AND PRIME ALL NEW WALL MOUNTED PIPING AND CONDUIT. PIPING AND CONDUIT SHALL BE PAINTED WITH EXTERIOR GRADE PAINT TO MATCH EXISTING.
- CONDUITS 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.
- SEE BLOOM ENERGY PRODUCT INSTALLATION DRAWINGS FOR UTILITY CONNECTIONS TO ANCILLARY EQUIPMENT AND ENERGY SERVER.
- ALL EXISTING FEATURES SHALL REMAIN AND BE PROTECTED THROUGHOUT THE DURATION OF CONSTRUCTION, UNLESS OTHERWISE NOTED ON PLANS.
- ALL ABOVE FROST LINE SECTIONS OF WATER PIPES SHALL HAVE POWERED HEAT TRACE AND INSULATION. CONTRACTOR SHALL ENSURE UNDERGROUND WATER PIPE DEPTHS ARE BELOW FROST LINE.

REFERENCE SHEET NOTES

- NEW UTILITY PROVIDED AND INSTALLED GAS METER ASSEMBLY WITH SHUT-OFF VALVE. CONTRACTOR SHALL PROVIDE CONCRETE PAD IN ACCORDANCE WITH UTILITY SPECIFICATIONS AND COORDINATE ALL CONNECTIONS WITH GAS UTILITY.
- NEW UNDERGROUND GAS SERVICE TAP BY UTILITY COMPANY. UTILITY COMPANY SHALL BE RESPONSIBLE FOR ENTIRE INSTALLATION FROM POINT OF CONNECTION TO NEW GAS METER. CONTRACTOR SHALL COORDINATE WITH GAS UTILITY FOR SCHEDULE OF THIS WORK PRIOR TO CONSTRUCTION.
- NEW GAS PIPE DOWNSTREAM OF THE NEW METER SET ASSEMBLY TO THE SERVERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL TAP EXISTING WATER LINE AT NEAREST ACCESSIBLE LOCATION IN GROUND FLOOR OF PARKING GARAGE AS SHOWN WITH A LOCAL SHUT-OFF VALVE. COORDINATE EXACT POINT OF CONNECTION LOCATION WITH CUSTOMER REPRESENTATIVE IN THE FIELD. REFER TO 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 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 10' APART MINIMUM. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- NEW ELECTRICAL FEEDER SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- MOUNT NEW CONDUIT/PIPE TO EXTERIOR WALL. COORDINATE EXACT ROUTING WITH CUSTOMER REPRESENTATIVE IN THE FIELD. REFER TO WALL MOUNTING DETAILS FOR ADDITIONAL REQUIREMENTS.
- FACTORY WIRED BLOOM ENERGY SERVER EMERGENCY POWER-OFF 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 PROVIDE 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.
- PROVIDE STORM DRAIN PROTECTION OUTFLOW PORTS AT STORM DRAIN INLET. REFER TO STORM DRAIN PROTECTION DETAIL FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE LANDSCAPE RESTORATION FOR ALL DISTURBED LANDSCAPE AREAS. REFER TO LANDSCAPE RESTORATION DETAIL FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL MOUNT ELECTRICAL OR DATA CONDUIT/PIPE ROUTING THROUGH BUILDING IN CEILING AS MUCH AS FEASIBLE. CONTRACTOR SHALL COORDINATE EXACT ROUTING AND MEANS AND METHODS OF INSTALLATION WITH CUSTOMER REPRESENTATIVE IN THE FIELD PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE ELECTRICAL PULL BOXES EVERY 360 DEGREES OF HORIZONTAL AND VERTICAL BENDS. EXACT NUMBER AND LOCATION OF BOXES SHALL BE FIELD VERIFIED BY CONTRACTOR AND INSTALLED IN ACCORDANCE WITH NEC REQUIREMENTS. WHERE APPLICABLE, REFER TO TYPICAL PULL BOX WALL MOUNTING DETAIL ON SHEET S3.1.
- NEW BLOOM ENERGY SERVER MOUNTED ON A PRECAST CONCRETE PAD. PRECAST CONCRETE PAD DESIGNED BY PRECAST MANUFACTURER. REFER TO PRODUCTION INSTALLATION DRAWINGS FOR ADDITIONAL BLOOM ENERGY SERVER AND PRECAST PAD DETAILS INCLUDING STUB UP DETAILS AND PAD CUT OUT LOCATIONS. REFER TO SINGLE LINE DIAGRAM FOR UFER REQUIREMENTS.
- CONTRACTOR SHALL REMOVE 11 LF EXISTING 6" HIGH CONCRETE CURB AND REPLACE WITH DEPRESSED CURB.

EXISTING UTILITY NOTE:
 THE LOCATION OF EXISTING UTILITIES IS SHOWN FOR THE CONTRACTOR'S REFERENCE. EXACT LOCATION, DEPTH AND SIZE OF ALL EXISTING UTILITIES IS NOT KNOWN. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES NOT SHOWN ON THESE DRAWINGS. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UNDERGROUND UTILITIES AND PROTECT THE EXISTING UNDERGROUND UTILITY LINES FROM DAMAGE WHEN CROSSING WITH NEW UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGED LINES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER FROM THOSE REPRESENTED HEREON. SUCH CONDITIONS COULD RENDER THE DESIGNS HEREON INAPPROPRIATE AND MAY REQUIRE ADJUSTMENTS TO AVOID CONFLICTS.

Bloomenergy
 4353 N. FIRST STREET
 SAN JOSE, CA 95134
 PROPRIETARY AND CONFIDENTIAL
 BLOOM ENERGY CORPORATION ALL RIGHTS RESERVED. THIS DOCUMENT IS FOR REFERENCE ONLY AND MAY NOT BE USED WITHOUT THE WRITTEN PERMISSION OF BLOOM ENERGY. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT PERMISSION OF BLOOM ENERGY IS PROHIBITED.

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 SAN JOSE, CA 95134
 t: (408) 543-1500

ENGINEER OF RECORD
 CARSON P. TURNER, P.E.
 LICENSE # 22700

CUSTOMER SITE
 YALE NEW HAVEN
 HEALTH SYSTEM
 267 GRANT STREET
 BRIDGEPORT, CT 06610

Yale NewHaven Health

REVISION HISTORY

REV	REVISION ISSUE	DATE
-	INITIAL RELEASE	11/12/2021

DESIGNED BY SASHA SCARLAT
 DRAWN BY YASHODHA NAVEEN
 REVIEWED BY KATE TAYLOR
 APPROVED BY CARSON P. TURNER

SHEET TITLE
DETAILED SITE PLAN
 DRAWING NUMBER
 C1.1
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 DOC-1014045
 THIS DRAWING IS 24" x 36" AT FULL SIZE
 SITE ID: YNH004.0 SHEET 04 OF 16

Exhibit 4

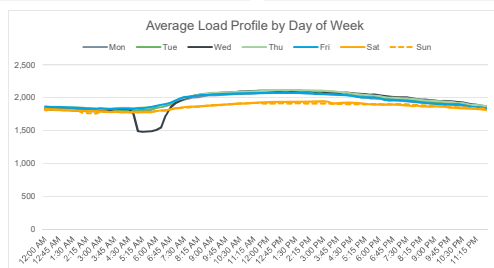
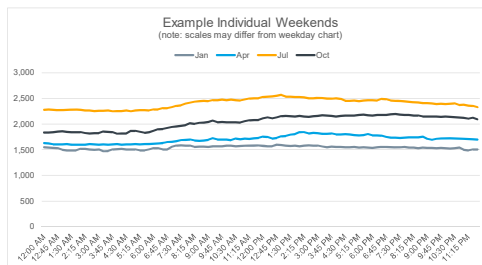
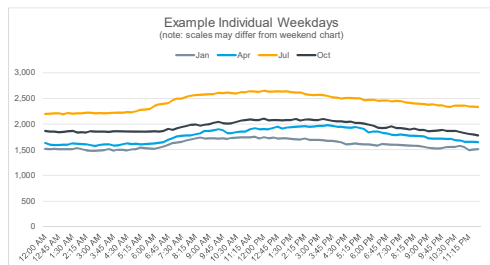
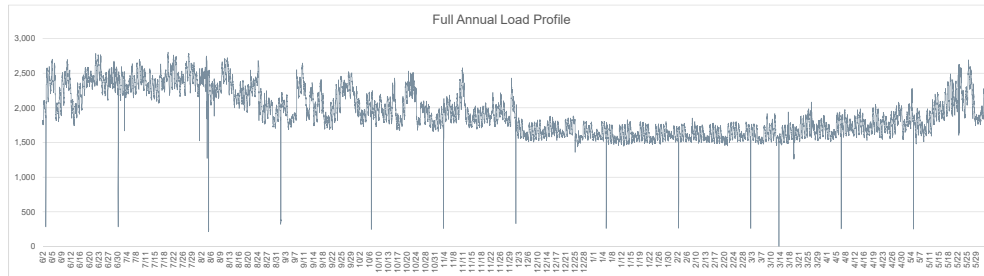
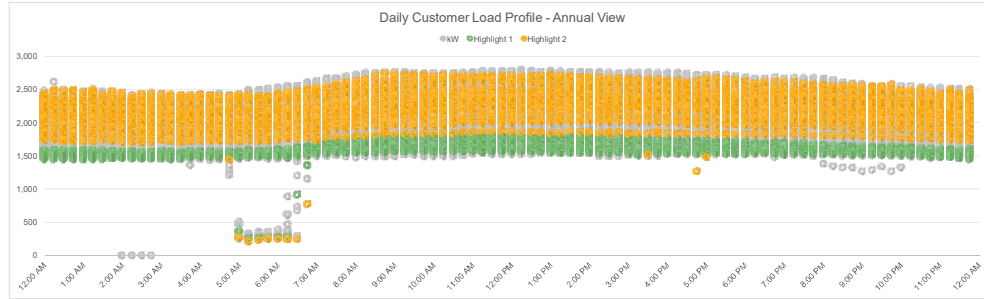
SITE DETAILS	
Utility Tariff	CT - UJLPT-S
Customer Name	Yale New Haven Health
Site Name or Address	Bridgeport Hospital
Utility Account Number	0100012254081
Meter Number	012003954
NOTES (Notes here)	

SIZING SUMMARY	
Total Days of Complete, Non-Zero Data	365
Annual Load Factor	69%
Total Customer Usage	16,920,787 kWh
Average 15-Min kW	1,932 kW
Average Peak Demand	2,400 kW
Absolute Minimum kW (non-zero)	215 kW
Estimated Average Baseload	1,850 kW
Proposed System Size	2,000 kW
Estimated Resulting Net Metering	5.19%

POWER FACTOR SUMMARY (NOT PRINTED)	
Power Factor from Customer Bill	90%
kVars at Peak Demand	266.6844
Inverter Nameplate Required	2,300

Yale New Haven Health - Bridgeport Hospital (Acct 4081; Meter 3954) - New Sizing Tool

MONTH	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Highlight Color (0/1/2)	1	0	0	0	0	0	0	2	0	0	0	0



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.



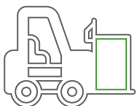
Reliable

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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DOC-1011598 Rev A

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

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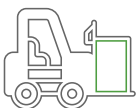
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Site in foreground, looking north

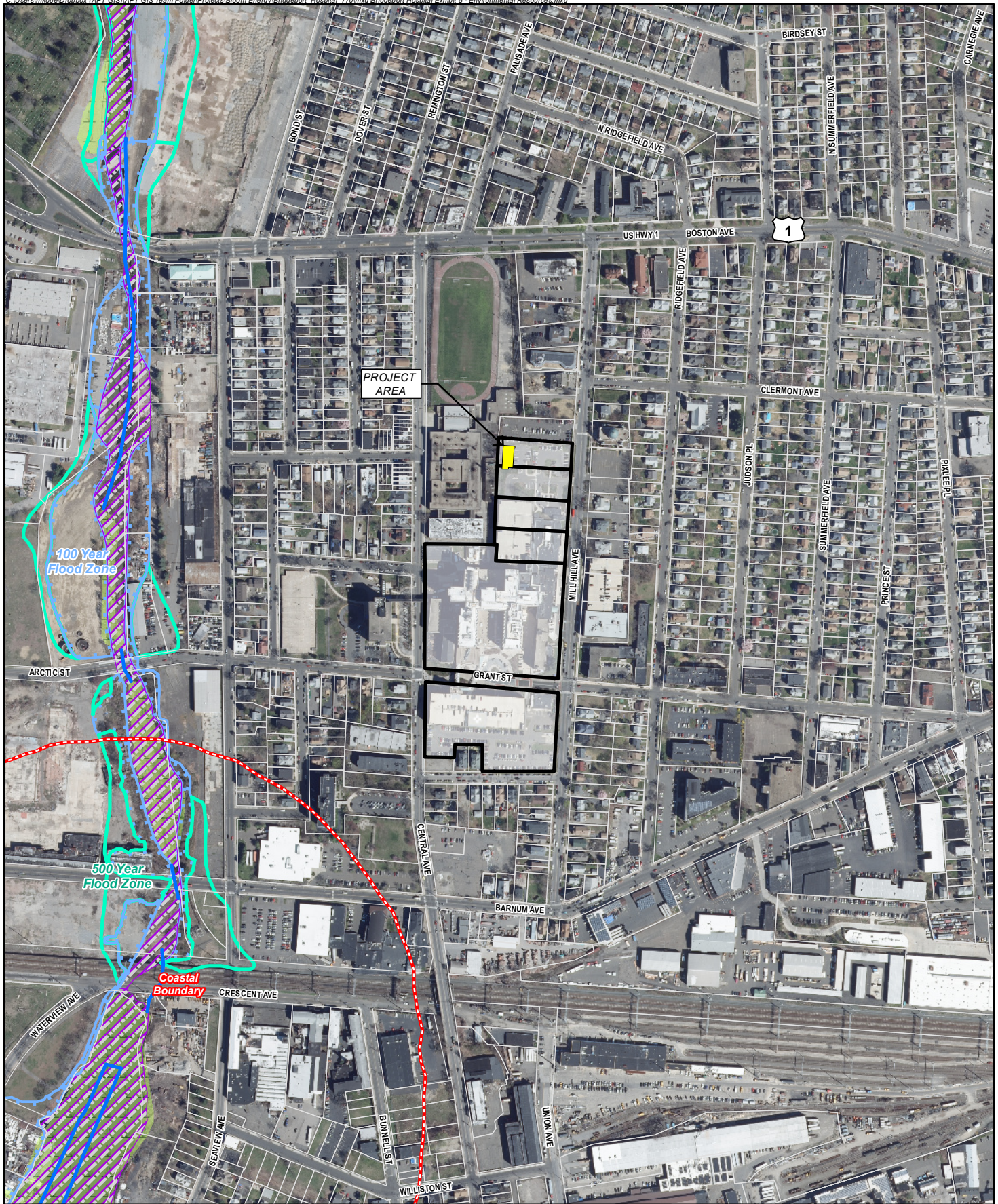


Site in foreground, looking south



Looking toward site, beyond cars

Exhibit 5



- Legend**
- Site
 - Project Area
 - CTDEEP Watercourse
 - CTDEEP Natural Diversity Database (updated Dec 2021)
 - CTDEEP Critical Habitat (Oct 2019)
 - CTDEEP Wetlands
 - FEMA 100-Year Flood Zone
 - FEMA 500-Year Flood Zone
 - Floodway
 - CTDEEP Coastal Boundary
 - Approximate Assessor Parcel Boundary
 - Municipal Boundary

Map Notes:
 Not All Legend Items May Be Located Within Map Extent
 Base Map Source: CTECO 2019 Aerial Photograph
 Map Scale: 1 inch = 500 feet
 Map Date: March 2022



Exhibit 5 Environmental Resources

Proposed Bloom Energy Facility
 Yale New Haven
 Health System
 267 Grant Street
 Bridgeport, Connecticut



Exhibit 6



*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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2. Fuel Cell Installation Safety Features
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4. Fire and Smoke Procedures
5. Medical Emergency Procedures
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7. Natural Disasters and Severe Weather
 - 7.1 Earthquake
 - 7.2 Flood
8. Utility Outage
9. Good Housekeeping and Maintenance
 - 9.1 Good Housekeeping
 - 9.2 Maintenance
10. Training

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 modell 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

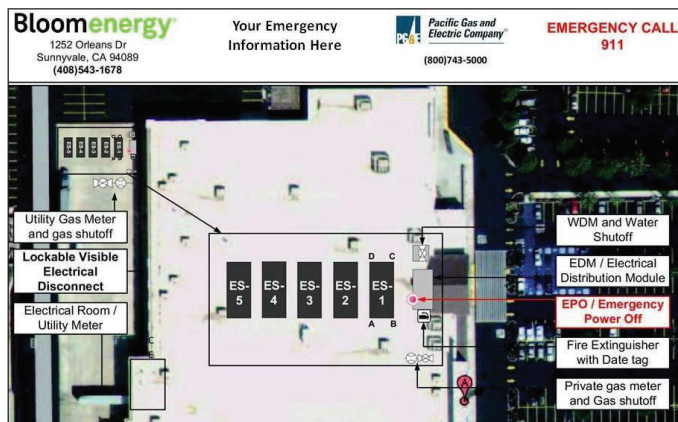


Figure 4: Sample Site Map

Manual controls:

- Clearly marked emergency stop button labeled —Fuel Cell Emergency Shut Down 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 7

March 7, 2022

Bloom Energy
4353 North 1st Street
San Jose, California 95134

Attention: **Brandon Leaverton | Supply Chain Specialist – Construction**

Subject: **Yale New Haven, Bridgeport, CT**
Fuel Cell Acoustical Analysis
Veneklasen Project No. 4631-023

Dear Brandon:

Veneklasen Associates, Inc. (Veneklasen) was contracted to evaluate noise impact of the proposed fuel cells for the subject project Bridgeport, Connecticut. This report includes the predicted noise levels at adjacent property lines and an evaluation of necessary mitigation, if warranted, to comply with the local noise ordinance in the surrounding community. This report documents our findings.

Noise Criteria

Section 8.80.040 of the Bridgeport Noise Ordinance states that:

It is unlawful for any person to emit, allow or cause to be emitted any noise beyond the boundaries of his/her premises in excess of the noise levels established in these regulations.

Table 1. Receptor's Zone

Emitter Zone	Industrial	Commercial	Residential/Day	Residential/Night
Residential	62 dBA	55 dBA	55 dBA	45 dBA
Commercial	62 dBA	62 dBA	55 dBA	45 dBA
Industrial	70 dBA	66 dBA	61 dBA	51 dBA

The fuel cell system is a constant, steady state noise source without substantial tonal noise, impulsive noise, or noise consisting of speech or music. It is assumed that the proposed fuel cell will run 24-hours per day. Therefore, for nearby residential and hospital receptors, Veneklasen will design to the residential nighttime hourly level noise limit set forth.

Section 8.80.040 Item C.1 allows for modifications to the above noise limits if existing ambient noise is greater than the applicable receptor noise limit. The city traffic counts do not include Mill Hill Avenue. Conservatively using the 8000 ADT for Central Avenue, the estimated nighttime noise levels would not alter the noise ordinance limits for each receptor.

Additionally, Sections 22a-69-2.3 and 22a-69-2.4 of the Regulations of Connecticut State Agencies define both "Class A" and "Class B" noise zones with specific examples of property types: Definitions are included below:

Class A

Lands designated Class A shall generally be residential areas where human beings sleep or areas where serenity and tranquility are essential to the intended use of the land.

Class B

Lands designated Class B shall generally be commercial in nature, areas where human beings converse and such conversation is essential to the intended use of the land.

For the purposes of this analysis, Class A receptors are considered Residential receptors per the city noise ordinance and Class B receptors are considered Commercial receptors. As shown below, there are several specific uses that

require this further distinction.

Property Line Noise Analysis

Drawings dated August 31, 2021 indicate that the proposed fuel cells will be installed on the central west side of the project site, facing 1734 Central Avenue, Bridgeport, Connecticut. The proposed fuel cell locations are shown below in Figure 1 in green. Additionally, the nearest sensitive receptors to the proposed fuel cell location are annotated in blue.

The calculated fuel cell noise levels as compared with the city noise requirements are presented below in Table 2. Note that the reported distances between property lines and the fuel cell are taken from the closest face of the fuel cell to the associated property line. Note that 1734 Central Avenue is a school-zoned building and 364 Mill Hill Avenue is a church. Per Regulations of Connecticut State Agencies, educational land is considered a Class B, or commercial, receptor while a religious land use is considered a Class A receptor, or residential receptor.

The current fuel cell installation method includes a foam dampening material that is installed at the doors and exhaust to the fuel cells. Measurement data of these units when compared to units without foam indicate that the foam compound reduces noise levels produced by the cells by approximately 5 decibels. See Appendix A below for fuel cell sound power data and foam compound reduction data used in the following analysis.

Figure 1. Property Line and Fuel Cell Locations

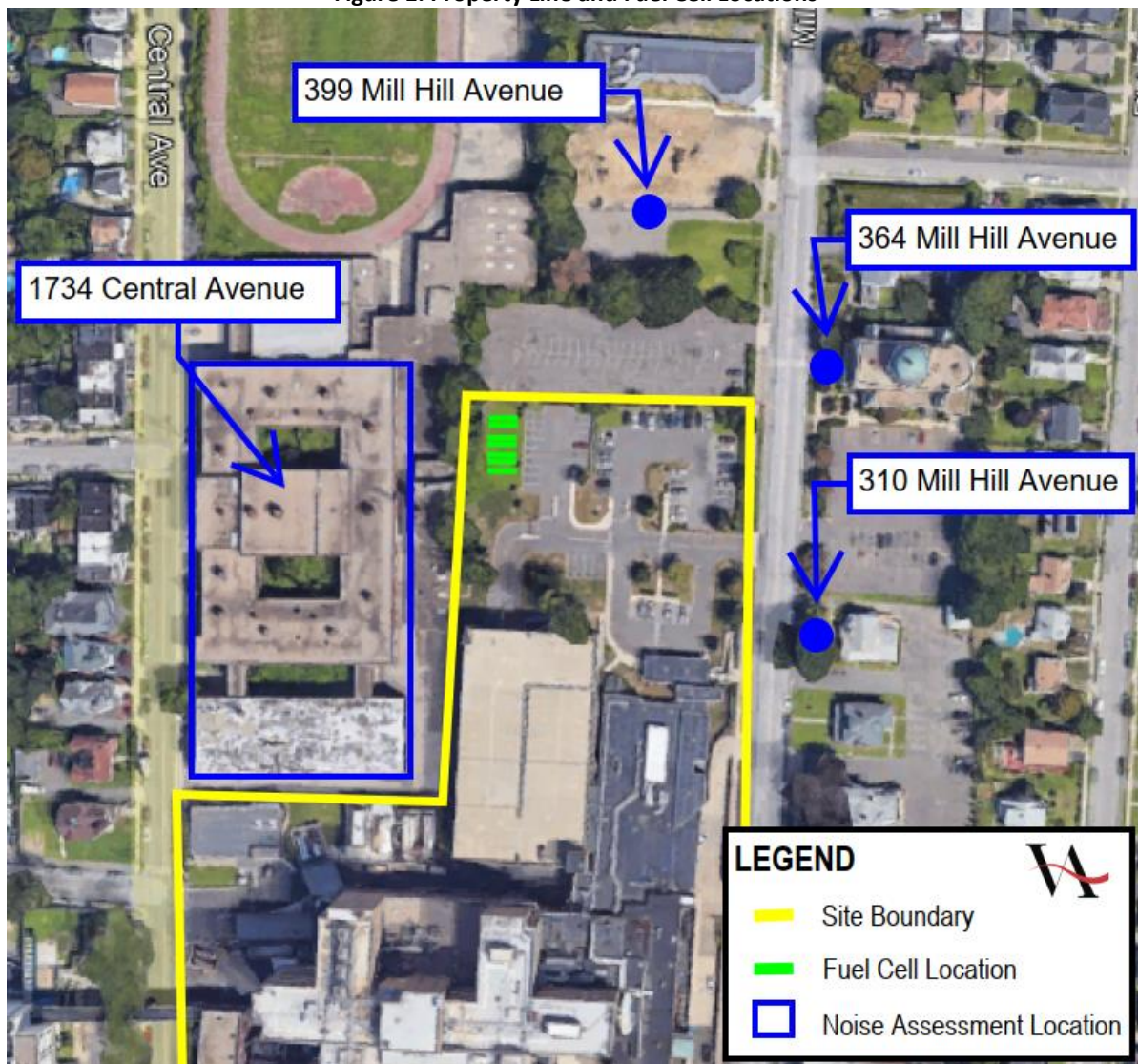


Table 2. Fuel Cell Property Line Noise Levels: No Mitigation

Sensitive Receptor	Property Type	Distance from Fuel Cell, ft	Calculated Fuel Cell Noise Level, dBA	Noise Limit (Night), dBA	Code Compliant?
1734 Central	Commercial (Education)	27	55	62	Yes
364 Mill Hill	Residential (Church)	325	37	45	Yes
399 Mill Hill	Commercial (Wellness Center)	225	39	62	Yes
310 Mill Hill	Commercial (Yale General Surgery)	345	36	62	Yes

As is shown above, all adjacent receptors are in compliance with local noise ordinance noise limits without any mitigation.

Summary

Veneklasen has reviewed the subject project proposed fuel cell property line noise levels as they pertain to the applicable Bridgeport Noise Ordinance. All adjacent properties are compliant with local noise ordinance requirements per property type as currently designed. Therefore, no mitigation is required to comply with city requirements.

If you have any questions, please do not hesitate to call.

Sincerely,
Veneklasen Associates, Inc.



Kevin Patterson
 Associate



John LoVerde, FASA
 Principal

Appendix A – Sound Power Levels

Sound power data was taken from the Mei Wu Acoustics (MWA) Report titled “Bloom Energy – ES5 Linear Sound Power Measurement”, dated June 21, 2016. These reported levels were measured without the sound dampening foam described above.

Table 3. Fuel Cell Measured Sound Power Levels

Dampening Product Installed?	Measured Sound Power Level [dB] – 1/1 Octave Bands							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	LwA
No	77.9	80.9	84.1	82.3	80.5	76.9	69.4	84.9
Yes	77.9	80.9	81.0	77.9	73.7	67.2	64.8	79.3

In a study conducted at an existing installation of the fuel cell systems, measurements were taken of the fuel cell banks with and without the dampening product. The Noise Reduction (NR) of the dampening product was calculated by taking the difference of these measured values at octave band frequencies. Note that no significant reduction was shown at the 63 Hz and 125 Hz bands. The modified sound levels for the fuel cells that were utilized in calculations shown in this report are shown in Table 3.

Table 4. Measured Sound Dampening Foam Mitigation

Condition	Measured Sound Pressure Level [dB] @10ft – 1/1 Octave Band				
	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
No Foam	70.8	66.8	65.5	62.4	53.6
Foam	67.8	62.5	58.7	52.8	49.0
Difference (NR)	3.1	4.4	6.8	9.7	4.6

Appendix B – Calculation Methods

Sound level attenuates over distance by a factor of -6 dB per doubling of distance. For example, if a sound source was measured to be 60 dBA at a distance of 10 feet, the measured sound level at 20 feet would be 54 dBA. Sound level reduction due to distance is calculated according to the following equation:

$$L_p = L_w + 10 \log_{10} Q - 20 \log_{10} d - 0.7$$

Where:

d = The distance between the center of the fuel cell unit to the property line in feet.

L_p = The sound pressure level at a distance d in decibels.

L_w = The sound power level from the fuel cell. Sound power levels are reported above in Appendix A in decibels.

Q = The directivity factor which dictates how sound radiates outward from the source. See Figure 2 below from the 2015 American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE) Handbook, Chapter 48 describing Q factors and their associated sound radiation patterns.

Figure 2. ASHRAE Handbook: Q Factor Sound Radiation Patterns

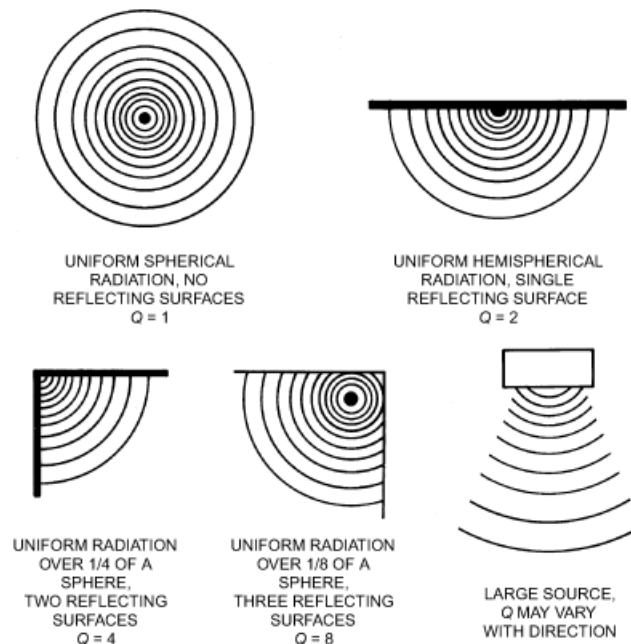


Fig. 30 Directivity Factors for Various Radiation Patterns

In the equation above, the greater the distance away from the sound source (d), the lower the sound level. This is intuitive and most people would consider this common knowledge.

In general, the more reflecting surfaces there are adjacent to a noise source, the more sound will bounce off these surfaces and radiate outward. In other words, larger Q factors will increase the noise level. For example, a fuel cell sitting on the ground, with nothing else around, would have a Q factor of 2 because the ground that the fuel cell is sitting on acts as a single reflecting surface. Another example would be a fuel cell sitting on the ground with a retaining wall on one side of it; this system would have a Q factor of 4 because both the ground and the retaining wall act as reflecting surfaces. A doubling of the Q factor increases the receiver noise level, L_p , by 3 dB.

Exhibit 8

VIA CERTIFICATE OF MAILING

March 5, 2022

RE: Application of Bloom Energy for the location and construction of a Bloom Energy Server fuel cell installation to provide 2,000 kilowatts of Customer-Side Distributed Resource at Bridgeport Hospital, 267 Grant Street, Bridgeport, 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 March 11, 2022, a petition for declaratory ruling with the Council. The petition will request the Council's approval of the location and construction of a 2,000-kilowatt fuel cell installation and associated equipment. The Facility will be located at Bridgeport Hospital at 267 Grant Street in Bridgeport, Connecticut (the "Site").

The purpose of the proposed Facility is to replace a portion of Bridgeport Hospital's annual load 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,



Kristen Grillo
Senior Permitting Specialist
Kristen.grillo@bloomenergy.com

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



ABUTTING PROPERTY OWNERS

		subject parcels				
Property ID M/B/L	Property Address	Owner Name	Mailing Address	Town	State	Zip
49/1814/3	267 Grant Street	Bridgeport Hospital, Yale New Haven Health	789 Howard Ave., MCS-2 Attn: Tax Department	New Haven	CT	06519
49/1814/4	271 Mill Hill Avenue	Bridgeport Hospital Inc., Yale New Haven Health	789 Howard Ave., MCS-2 Attn: Tax Department	New Haven	CT	06519
49/1814/5	281 Mill Hill Avenue	Bridgeport Hospital, Yale New Haven Health	789 Howard Ave., MCS-2 Attn: Tax Department	New Haven	CT	06519
49/1814/6	303 Mill Hill Avenue	Bridgeport Hospital, Yale New Haven Health	789 Howard Ave., MCS-2 Attn: Tax Department	New Haven	CT	06519
49/1814/7	319 Mill Hill Avenue	Bridgeport Hospital, Yale New Haven Health	789 Howard Ave., MCS-2 Attn: Tax Department	New Haven	CT	06519
49/1814/8	365 Mill Hill Avenue	American Sons & Daughters of Carpatho-Russia Inc.	40 Beaver Dam Rd.	Stratford	CT	06614
49/1818/3	364 Mill Hill Avenue	American Sons & Daughters of Carpatho-Russia Inc.	40 Beaver Dam Rd.	Stratford	CT	06614
49/1818/4	348 Mill Hill Avenue	American Sons & Daughters of Carpatho-Russia Inc.	40 Beaver Dam Rd.	Stratford	CT	06614
49/1818/5	322 Mill Hill Avenue	American Sons & Daughters of Carpatho-Russia Inc.	40 Beaver Dam Rd.	Stratford	CT	06614
49/1818/28	310 Mill Hill Avenue	Bridgeport Hospital	310 Mill Hill Ave.	Bridgeport	CT	06610-2863
49/1818/6	300 Mill Hill Avenue	Bridgeport Hospital, Yale New Haven Health	789 Howard Ave., MCS-2 Attn: Tax Department	New Haven	CT	06519
49/1818/7	276 Mill Hill Avenue	Mill Hill Associates LLC	c/o R. Robinson, 552 Artesian Spring Dr.	Fairhope	AL	36532
49/1818/7/A	266 Mill Hill Avenue	Bridgeport Hospital, Yale New Haven Health	789 Howard Ave., MCS-2 Attn: Tax Department	New Haven	CT	06519
49/1818/8	244 Mill Hill Avenue	Bridgeport Hospital, Yale New Haven Health	789 Howard Ave., MCS-2 Attn: Tax Department	New Haven	CT	06519
49/1818/9	226 Mill Hill Avenue	Bridgeport Hospital	789 Howard Ave., MCS-2	New Haven	CT	06519
49/1818/10/A	200 Mill Hill Avenue	Bridgeport Hospital, Yale New Haven Health	789 Howard Ave., MCS-2 Attn: Tax Department	New Haven	CT	06519
49/1817/1	156 Mill Hill Avenue #158	Bridgeport Hospital, Yale New Haven Health	789 Howard Ave., MCS-2 Attn: Tax Department	New Haven	CT	06519
43/1817/2	146 Mill Hill Avenue #150	Greater Bpt Adolescent Preg Program Inc.	146 Mill Hill Ave.	Bridgeport	CT	06610
43/1817/3	138-140 Mill Hill Avenue #142	Cimaprop LLC	2675 Park Ave. Unit 2	Bridgeport	CT	06604
43/1817/4	126 Mill Hill Avenue	Sealy Gardens LLC	P.O. Box 472	Lawrence	NY	11559
43/1817/5	120 Mill Hill Avenue	Sharon L. Wiggins	116 Mill Hill Ave.	Bridgeport	CT	06610
43/1817/6	116 Mill Hill Avenue	Sharon L. Wiggins	116 Mill Hill Ave.	Bridgeport	CT	06610

43/1817/9	100 Mill Hill Avenue	Edwin Centeno	1645 Barnum Ave.	Bridgeport	CT	06610
43/1815/19	93 Mill Hill Avenue	Edison Carela	93 Mill Hill Ave.	Bridgeport	CT	06610-2808
43/1815/20	68 Ford Place #70	Chadney F. Nixon	19 Hopkins Hill Rd.	Naugatuck	CT	06770
43/1815/21	58 Ford Place #62	Holvin and Rosa Figueroa	60 Ford Pl.	Bridgeport	CT	06610
43/1815/22	48 Ford Place #50	Bridgeport Hospital, Yale New Haven Health	789 Howard Ave., MCS-2 Attn: Tax Department	New Haven	CT	06519
43/1815/23	38 Ford Place #42	Dennikeya Shikem Randolph	38-42 Ford Pl.	Bridgeport	CT	06610
43/1845/22	35 Ford Place #37	Cecelio I.P. de la Cruz	35 Ford Pl. #37	Bridgeport	CT	06610-2803
43/1845/21	25 Ford Place #27	Greater Bridgeport Adolescent Pregnancy Program Inc.	1470 Barnum Ave., Suite 301	Bridgeport	CT	06610
43/1845/20	1524 Central Avenue #1526	Bridgeport Hospital, Yale New Haven Health	789 Howard Ave., MCS-2 Attn: Tax Department	New Haven	CT	06519
43/1809/35	1525 Central Avenue	Bridgeport Commons LLC	75 John St.	Bridgeport	CT	06604
43/1809/36	1535 Central Avenue	Bridgeport Commons LLC	75 John St.	Bridgeport	CT	06604
43/1809/37	1549 Central Avenue #1555	Basanti Mitra	258 Longstreet Ave.	Bronx	NY	10465
43/1809/38	1569 Central Avenue	Maurice S. Williams	1569 Central Ave.	Bridgeport	CT	06610
43/1809/39	1579 Central Avenue	Daphnie Bruno et al.	1579 Central Ave.	Bridgeport	CT	09907*
49/1810/1/A	1635 Central Avenue	State of Conn Hospital	1635 Central Ave.	Bridgeport	CT	06610
49/1811/12/A	1685 Central Avenue	Bentzy III De LLC	399 Whalley Ave.	New Haven	CT	06511
49/1811/12	1695 Central Avenue	Pamela Scott & Craig Scott	54 Judy Ln.	Stamford	CT	06906
49/1814/1	1734 Central Avenue	City of Bridgeport Education	45 Lyon Terrace	Bridgeport	CT	06604
*09907 shown on City Tax Assessor's records; corrected to 06610 for mailing						

OFFICIALS

Name	Title	Mailing Address	Town	State	Zip
William Tong	Attorney General	165 Capitol Ave.	Hartford	CT	06106
Katie Dykes	Commissioner, Dept. of Energy and Environmental Protection	79 Elm St.	Hartford	CT	06106-5127
Marissa Paslick Gillett	Chairman, Public Utilities Regulatory Authority	10 Franklin Square	New Britain	CT	06051
Dr. Jewel Mullen	Commissioner, Dept. of Public Health	410 Capitol Ave.	Hartford	CT	06134
Susan D. Merrow	Chair, Council on Environmental Quality	79 Elm St.	Hartford	CT	06106
Bryan P. Hurlburt	Commissioner, Dept. of Agriculture	450 Columbus Blvd., Suite 701	Hartford	CT	06103
Melissa McCaw	Secretary, Office of Policy and Management	450 Capitol Ave.	Hartford	CT	06106
Joseph Giulietti	Commissioner, Dept. of Transportation	2800 Berlin Turnpike	Newington	CT	06111
David Lehman	Commissioner, Dept. of Economic and Community Development	450 Columbus Blvd.	Hartford	CT	06103
Brenda Bergeron	Deputy Commissioner, Dept. of Emergency Management and Homeland Security	1111 Country Club Rd.	Middletown	CT	06457
Michelle H. Seagull	Commissioner, Dept. of Consumer Protection	450 Columbus Blvd., Suite 901	Hartford	CT	06103
Josh Geballe	Commissioner, Dept. of Administrative Services	450 Columbus Blvd.	Hartford	CT	06103
Danté Bartolomeo	Interim Commissioner, Dept. of Labor	200 Folly Brook Blvd.	Wethersfield	CT	06109
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Chris Murphy	Senator	136 Hart Senate Office Building	Washington	DC	20510
Jim Himes	U.S. Representative	2137 Rayburn House Office Building	Washington	DC	20515
Dennis A. Bradley	State Senator, 23rd District	Legislative Office Building, Room 3500	Hartford	CT	06106-1591
Andre F. Baker, Jr.	Representative, 124th District	Legislative Office Building, Room 5005	Hartford	CT	06106-1591
	Connecticut Metropolitan Council of Governments	1000 Lafayette Blvd.	Bridgeport	CT	06604
Joseph P. Ganim	Mayor, City of Bridgeport	Margaret E. Morton Government Center 999 Broad St.	Bridgeport	CT	06604
Lynn Haig, AICP	Director of Planning Office of Planning and Economic Development	999 Broad St.	Bridgeport	CT	06604
Dennis Buckley	Zoning Administrator	City Hall 45 Lyon Terrace, Room 210	Bridgeport	CT	06604

Melville T. Riley, Jr.	Acting Chairman, Planning and Zoning Commission	City Hall 45 Lyon Terrace, Room 210	Bridgeport	CT	06604
Melville T. Riley, Jr.	Acting Chair, Inland Wetlands & Watercourses Agency	City Hall 45 Lyon Terrace, Room 210	Bridgeport	CT	06604
	Zoning Board of Appeals	City Hall 45 Lyon Terrace, Room 210	Bridgeport	CT	06604



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3. Hon. Chris Murphy
 Senator
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 Washington, DC 20510

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 U.S. Representative
 2137 Rayburn House Office Building
 Washington, DC 20515

5. Hon. Dennis A. Bradley
 Senator, 23rd District
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4.	American Sons & Daughters of Carpatho-Russia Inc. 40 Beaver Dam Rd. Stratford, CT 06614				
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State of Conn Hospital
 1635 Central Ave.
 Bridgeport, CT 06610

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2675 Park Ave. Unit 2
Bridgeport, CT 06604

3.

Sealy Gardens LLC
P.O. Box 472
Lawrence, NY 11559

4.

Sharon L. Wiggins
16 Mill Hill Ave.
Bridgeport, CT 06610

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Edwin Centeno
1645 Barnum Ave.
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3.	<p>City of Bridgeport Educaton 45 Lyon Terrace Bridgeport, CT 06604</p>			
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3.

Dennikeya Shikem Randolph
36-42 Ford Pl.
Bridgeport, CT 06610

4.

Cecilio I.P. de la Cruz
35 Ford Pl. #97
Bridgeport, CT 06610-2803

5.

6.

Exhibit 9

From: [Jennifer Young Gaudet](#)
To: ["dennis.buckley@bridgeportct.gov"](mailto:dennis.buckley@bridgeportct.gov)
Subject: Bridgeport Hospital - Bloom Energy
Date: Wednesday, December 8, 2021 2:23:00 PM
Attachments: [image002.png](#)
[Site Plan - Bloom Energy Bridgeport Hospital YNH004.0 11.30.2021.pdf](#)

Dear Mr. Buckley:

I am writing on behalf of Bloom Energy in connection with a planned fuel cell installations at Bridgeport Hospital. Attached are plans depicting the proposed installation, which will consist of energy servers and associated equipment and be fueled by natural gas. As shown, it will be located adjacent to an existing parking lot off of Mill Hill Avenue, behind Harding High School.

Bloom will be submitting a petition to the Connecticut Siting Council for approval. In preparation for the filing, we are seeking any comments you or other appropriate City departments may have on the proposed plans.

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.

Jennifer Young Gaudet



JENNIFER YOUNG GAUDET

Program Manager

D | 860.581.4478 • **M** | 860.798.7454 • **W** |

www.allpointstech.com

567 Vauxhall Street Extension – Suite 311, Waterford, CT 06385