



January 14, 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 1,500-Kilowatt Fuel Cell Customer-Side Distributed Resource at NBC Universal, 1 Blachley Road, Stamford, 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 1,500-kilowatt fuel cell and associated equipment at the NBC Sports Group complex (“NBC Sports”) in Stamford, Connecticut (the “Facility”). The Facility will be installed at 1 Blachley Road (the “Site”). Electricity generated by the Facility will benefit the NBC Sports 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 (860) 839-8373.

Sincerely,
Bloom Energy

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

**STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL**

PETITION OF BLOOM ENERGY CORPORATION : PETITION NO. ____
FOR A DECLARATORY RULING FOR THE :
LOCATION AND CONSTRUCTION OF A :
1,500-KILOWATT FUEL CELL CUSTOMER-SIDE :
DISTRIBUTED RESOURCE AT NBC SPORTS, 1 :
BLACHLEY ROAD, STAMFORD, CT :
: JANUARY 14, 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 NBC Sports Group’s facility at 1 Blachley Road in Stamford, Connecticut (the “Site”). Bloom will install a fuel cell consisting of five (5) ES-5 Bloom Energy Server solid oxide fuel cells and associated equipment (the “Facility”) that will provide a total of 1,500 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 NBC Universal Media, LLC (“NBC Universal”) owned by a third-party financing source. The Facility has been selected as part of the LREC program.

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 Projection....

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 Projection (“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:

Kristen Grillo
Bloom Energy Corporation
4353 North First Street
San Jose, CA 95134
Telephone: (408) 543-1500
Fax: (408) 543-1501
Email: Kristen.Grillo@bloomenergy.com

Adam Granz, CEM, LEED GA, REB
Bloom Energy Corporation
4353 North First Street
San Jose, CA 95134
Telephone: (408) 543-1500
Fax: (408) 543-1501
Email: Adam.Granz@bloomenergy.com

III. DISCUSSION

A. The Facility

The Facility will be a 1,500-kW customer-side distributed resource consisting of five (5) Bloom solid oxide fuel cell Energy Servers, model ES5-YASAAN, and associated equipment. As shown on Exhibit 2, the fuel cell and associated equipment (utility cabinets, water deionizers, telemetry cabinets, and disconnect switches) will be installed at the NBC Sports Group (“NBC Sports” facility within the multi-use, multi-tenant commercial and sports development at 1

Blachley Road. The energy server installation will be within a paved area at the northwest corner of the main NBC Sports building, south of the parking garage, with connections to existing utilities within and adjacent to the main building. The Facility will be fueled by natural gas supplied by Eversource. 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 1,500 KW based on consultation with NBC Sports representatives and analysis of their operational needs. The Facility will replace a portion of the average baseload of the Site with a Class I renewable energy source, continue to advance NBC Universal's sustainability goals¹, and improve reliability of electrical systems and equipment. The Facility has been sized to provide at least 72% of the average NBC Sports 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 NBC Universal. At the conclusion of the 15-year contract, NBC Universal 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 submitted to Eversource in October 2021 and review is in process. Final approvals are anticipated in July 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

¹ The NBC Sports Stamford facility is an ENERGY STAR-certified building that utilizes an integrated technology system to manage and reduce energy usage.

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 Stamford (“City”) Fire Department personnel and NBC Sports 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 Environment

i. The Site

The fuel cell will be installed adjacent to NBC Sports’ building on the 32.68-acre host parcel. The parcel is zoned M-D, Designed Industrial, and is developed with several buildings, a parking garage and parking lots; multiple tenants and uses occupy the parcel. The Facility is designed to take advantage of existing infrastructure, including utilities, while minimizing impact on operational requirements and traffic and pedestrian flow within the Site.

The Site is located in the southeastern area of the City, south of I-95. The surrounding area consists primarily of high-density residential development. The Rogers International School, a City K-8 International Baccalaureate school, is to the northeast at 202 Blachley Road.

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

ii. Wildlife and Habitat

Based on a review of the publicly available Connecticut Department of Energy and Environmental Protection (DEEP) Natural Diversity Database (NDDB) December 2021 data, the proposed Facility is within an NDDB area, an identified location of endangered, threatened and special concern species or significant natural community. Exhibit 5. Therefore, a DEEP NDDB request for review has been submitted. The response from DEEP will be made available upon receipt.

The Site is extensively developed with buildings and paved areas. The addition of the Facility adjacent to an existing building within an existing 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, which has long been fully developed for industrial and commercial uses. 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 1.8 miles to the north of the Site.

i. Cultural Resources

The Site is proposed in a previously developed and disturbed area. 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 480-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 Master Plan identifies sustainable production and use of energy, including the creation of resource efficient energy infrastructure, as critical to the City. One of the associated implementation strategies is promoting local renewable energy generation. At the time of the Master Plan’s adoption, the City had already encouraged small-scale green energy installations by private owners. *See* Stamford Master Plan 2015 - 2025, pp. 184-185.

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 properties and sensitive noise receptors. *See* Exhibit 7, Veneklasen Associates Fuel Cell Acoustical Analysis (“Report”). As indicated in the Report, operation of the Facility is calculated to result in noise levels within the allowed limits at the surrounding residential properties.

ix. Visual Effects

The visual effect of the Facility will be minimal. The addition of the Facility in the between two major structures is minor relative to the existing Site development. Existing structures will screen views of the Facility from the north, east and south. Visibility from the west will be minimized by mature vegetation; any seasonal visibility will be in the context of the large adjacent building.

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 the City's Land Use Bureau by email on December 10, 2021, to the attention of Ms. Vineeta Mathur, Senior Planner and provided plans for review. 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.

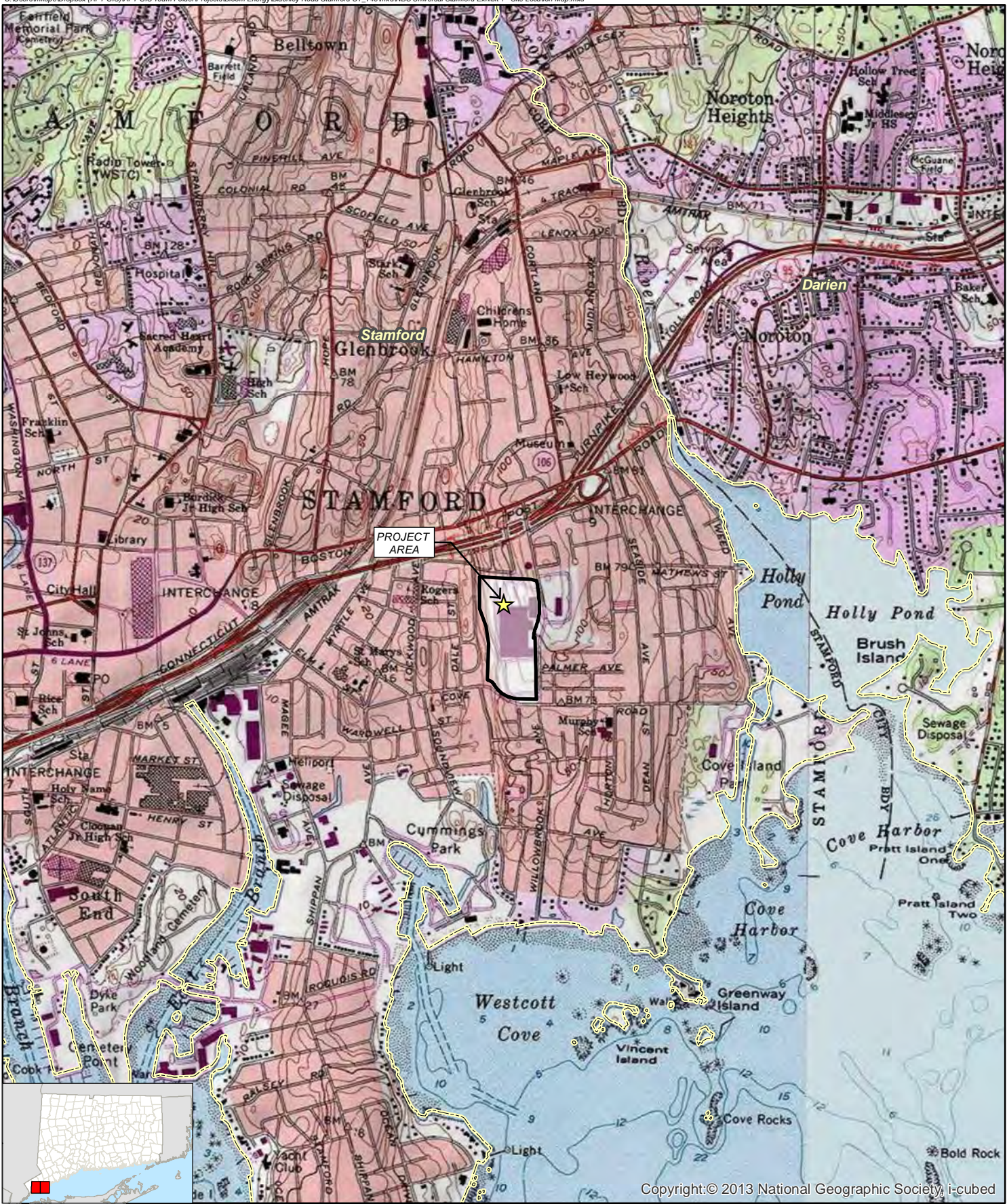
Bloom submits that no Certificate is required for the proposed Facility, as the installation would not have a substantial adverse environmental effect in the immediate vicinity of the Site or in the State of Connecticut. Accordingly, Bloom respectfully requests that the Council approve the proposed Facility by declaratory ruling.

Respectfully submitted,
Bloom Energy Corporation




By: 

Kristen Grillo
Bloom Energy Corporation
4353 North First Street
San Jose, CA 95134
Telephone: (408) 543-1500
Email: kristen.grillo@bloomenergy.com

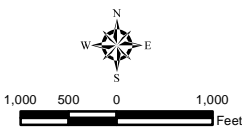
Exhibit 1



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- Legend**
-  Project Area
 -  Site
 -  Municipal Boundary (CTDEEP)

Map Notes:
 Base Map Source: USGS 7.5 Minute Topographic Quadrangle Map: Norwalk South, CT (1984) and Stamford, CT (1984)
 Map Scale: 1:24,000
 Map Date: December 2021



**Exhibit 1
 Site Location Map**

Proposed Bloom Energy Facility
 NBC Universal
 1 Blachley Road
 Stamford, Connecticut



Exhibit 2



Legend

- Site
- Approximate Assessor Parcel Boundary
- Abutting Property
- Project Area
- Electrical Service
- Water Service

Map Notes:
 Base Map Source: CTECO 2019 Aerial Photograph
 Map Scale: 1 inch = 250 feet
 Map Date: December 2021

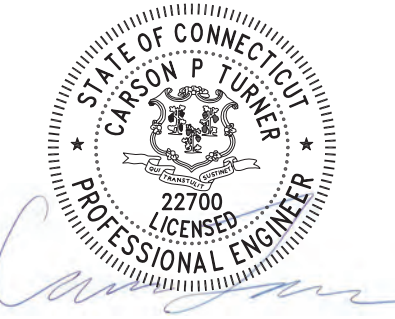


**Exhibit 2
 Site Vicinity**

Proposed Bloom Energy Facility
 NBC Universal
 1 Blachley Road
 Stamford, Connecticut



Exhibit 3



REVISION HISTORY		
REV	REVISION ISSUE	DATE
-	INITIAL RELEASE	10/05/2021

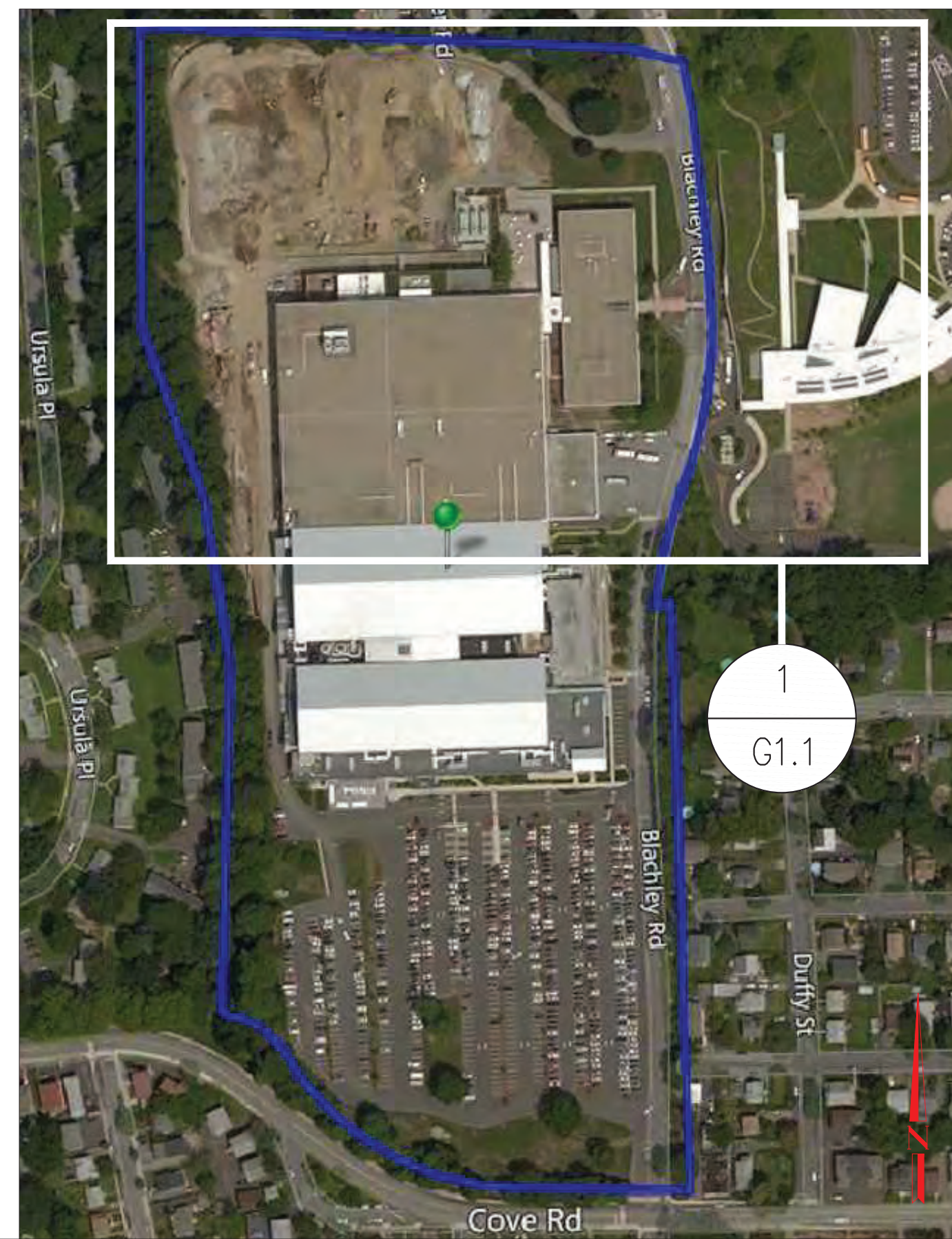
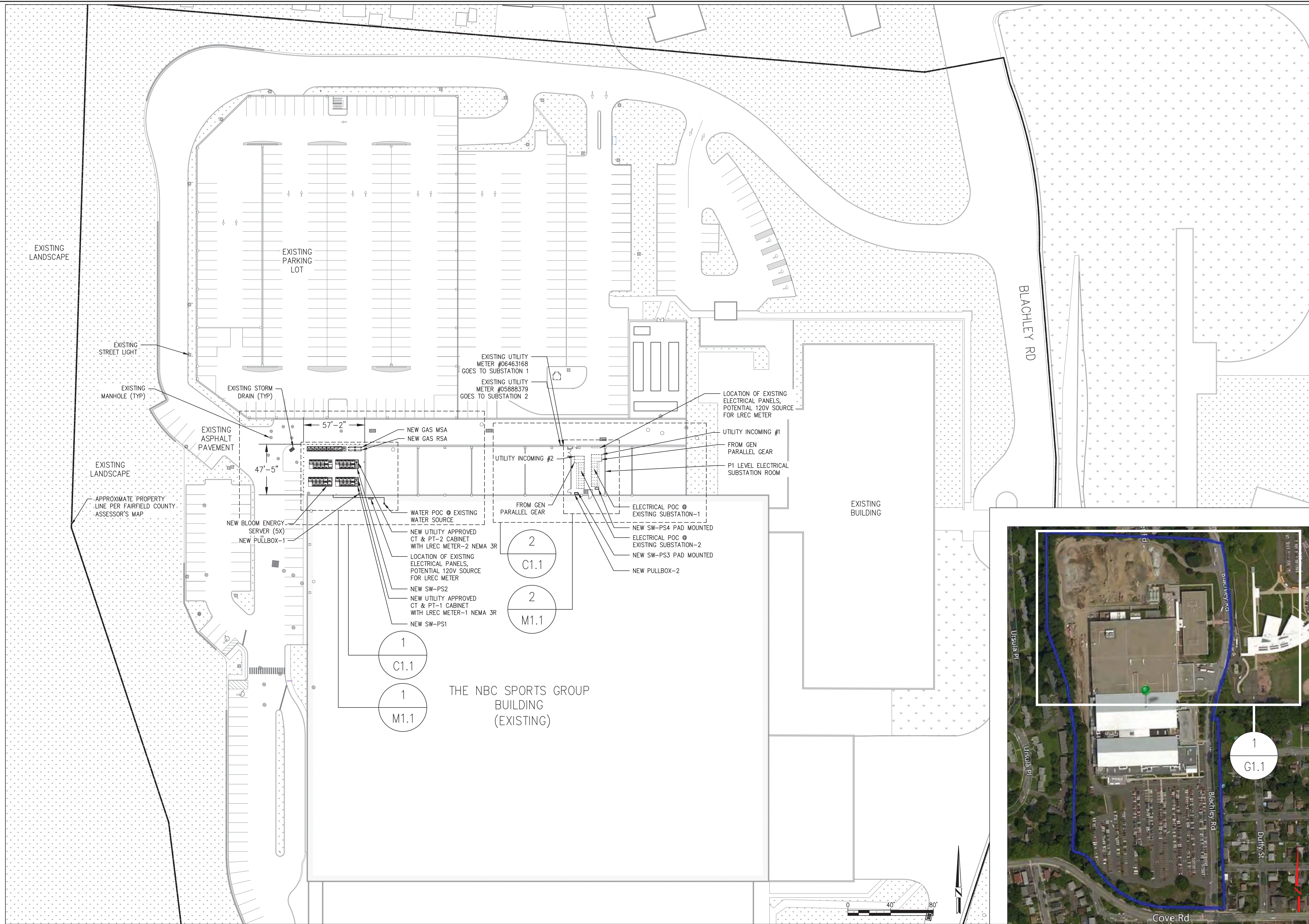
DESIGNED BY KATE TAYLOR	REVIEWED BY CARSON TURNER
DRAWN BY THARA SRINIVASACHARI	APPROVED BY CARSON TURNER

SHEET TITLE
OVERALL SITE PLAN

DRAWING NUMBER
G1.1

BLOOM DOCUMENT
DOC-1014147

THIS DRAWING IS 24" X 36" AT FULL SIZE
SITE ID: NBC003.0 SHEET 03 OF 13



OVERALL SITE PLAN

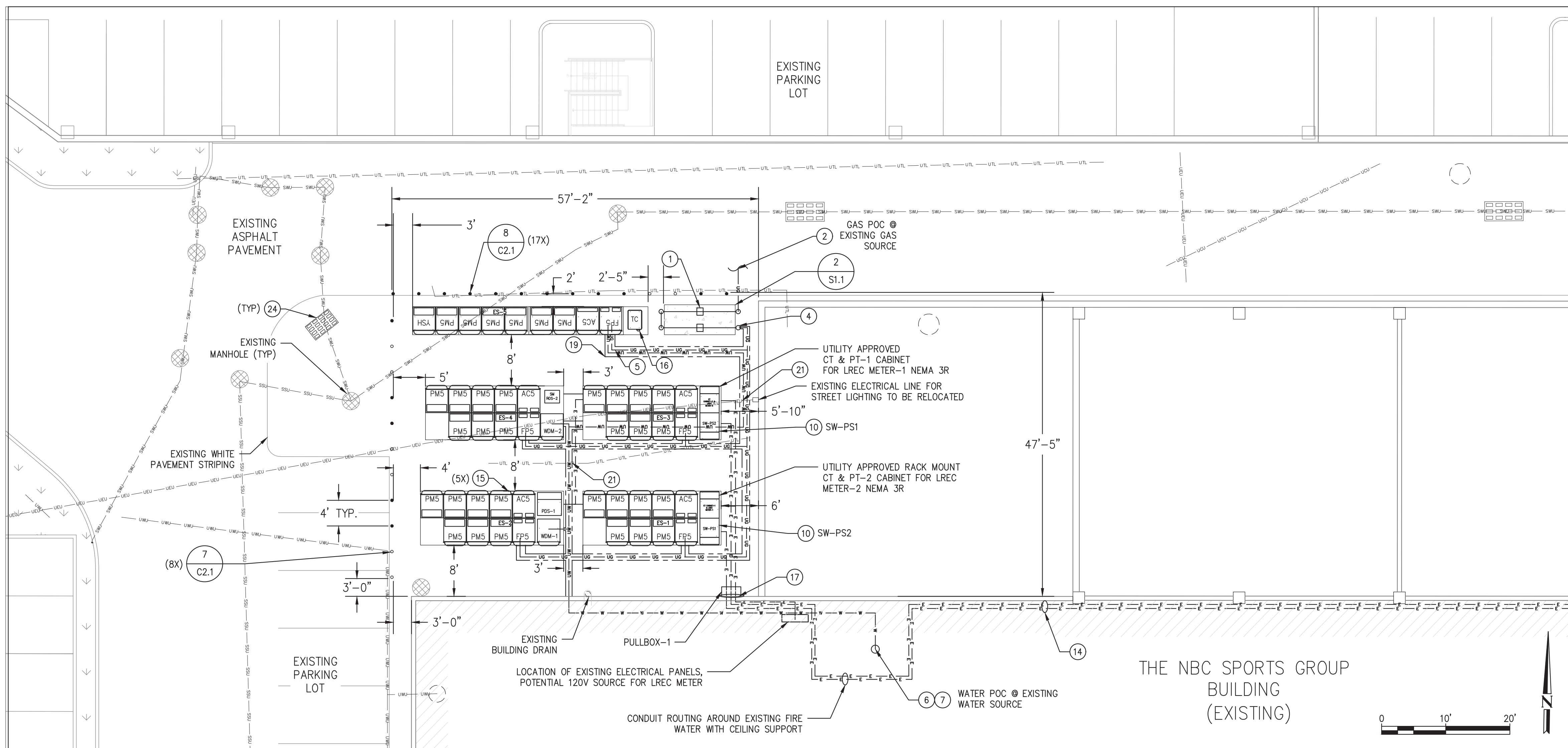
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G1.1

OVERALL SITE PLAN

SCALE: NTS

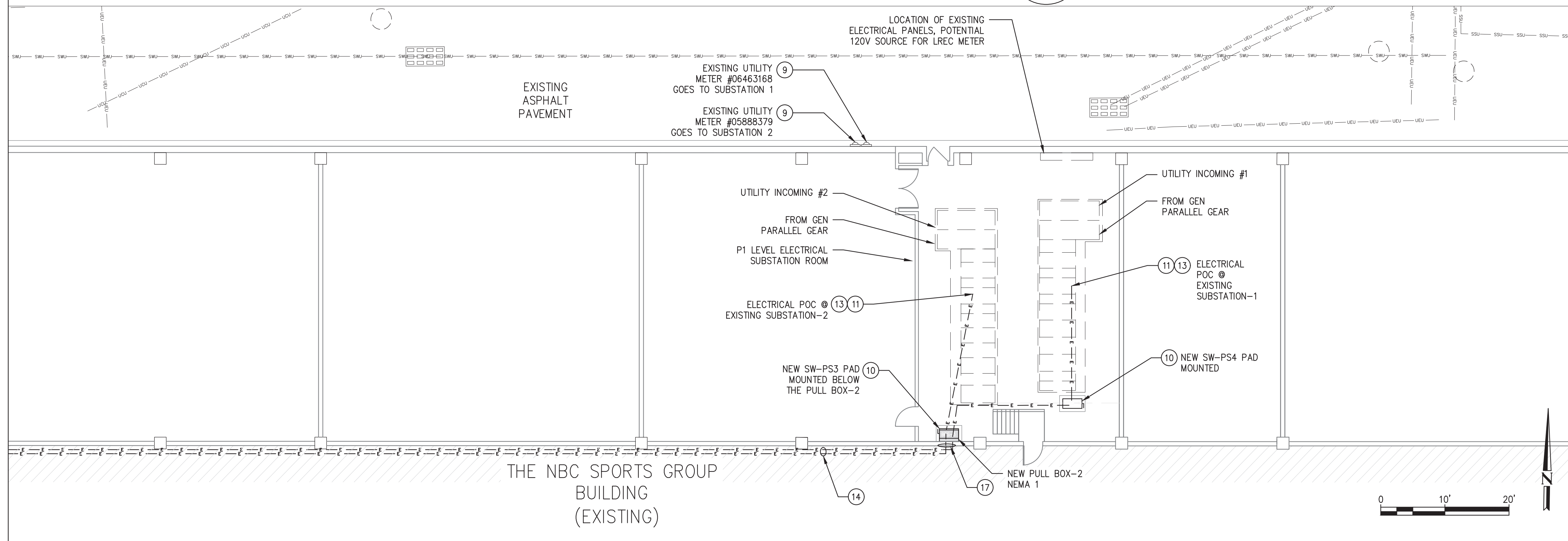
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G1.1



DETAILED SITE PLAN

SCALE: 1" = 10'

1
C1.1



DETAILED SITE PLAN

SCALE: 1" = 10'

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C1.1

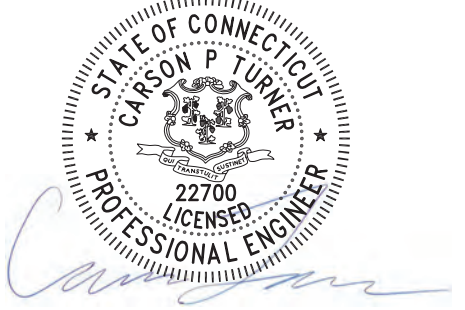
GENERAL NOTES

- 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 PULL BOXES AND VAULTS REQUIRED ARE NOT SHOWN. CONTRACTOR SHALL PROVIDE PULL BOX OR VAULT FOR CONDUIT RUNS WITH MORE THAN 360-DEG BENDS OR OTHERWISE REQUIRED PER CABLE PULLING TENSION OR SIDEWALL PRESSURE LIMITATIONS. CONTRACTOR SHALL SIZE PULL BOX OR VAULT IN COMPLIANCE WITH NEC REQUIREMENTS.
- ALL EXISTING FEATURES SHALL REMAIN AND PROTECTED THROUGHOUT THE CONSTRUCTION, UNLESS OTHERWISE NOTED ON PLAN.
- ALL THE ABOVE FROST LINE SECTIONS OF WATER PIPES SHALL HAVE POWERED HEAT TRACE AND INSULATION, ENSURE UNDERGROUND WATER DEPTHS ARE BELOW FROST LINE.

REFERENCE SHEET NOTES

- NEW UTILITY PROVIDED AND INSTALLED GAS METER & REGULATOR ASSEMBLY WITH SHUT-OFF VALVE. CONTRACTOR SHALL PROVIDE 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. CONTRACTOR SHALL COORDINATE GAS PIPE SIZING AND INSTALLATION REQUIREMENTS WITH UTILITY.
- 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 BUILDING AS SHOWN WITH A LOCAL SHUT-OFF VALVE. 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 TO PAD/WALL PER MANUFACTURER AND UTILITY SPECIFICATIONS.
- CONTRACTOR SHALL TERMINATE ELECTRIC FEEDER AS SHOWN. 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/INTERIOR WALL. COORDINATE EXACT ROUTING WITH CUSTOMER REPRESENTATIVE IN THE FIELD. REFER TO WALL MOUNTING DETAIL FOR ADDITIONAL REQUIREMENTS.
- BLOOM FURNISHED, CONTRACTOR INSTALLED SKID-MOUNTED BLOOM ENERGY SERVER.
- 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.
- 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.

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 UTILITIES FROM DAMAGE WHEN CROSSING WITH NEW UNDERGROUND UTILITIES. 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 DESIGN HEREON INAPPROPRIATE AND MAY REQUIRE ADJUSTMENTS TO AVOID CONFLICTS.



REVISION HISTORY

REV	REVISION ISSUE	DATE
-	INITIAL RELEASE	10/05/2021

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Exhibit 4

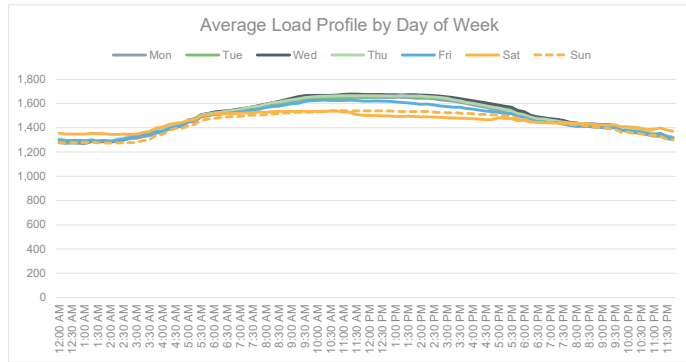
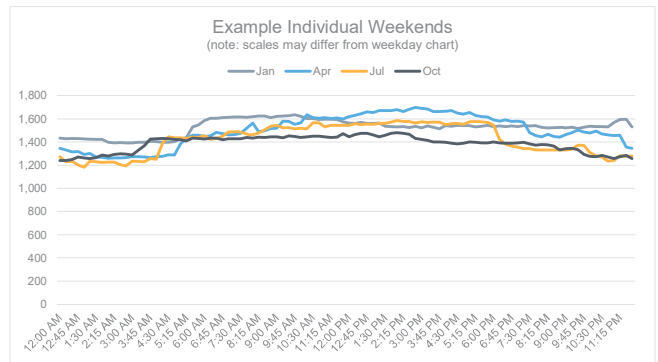
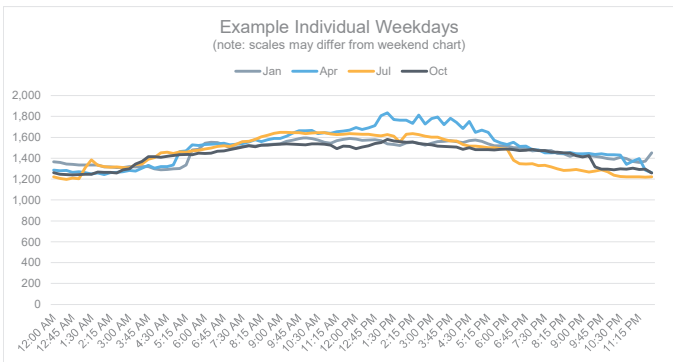
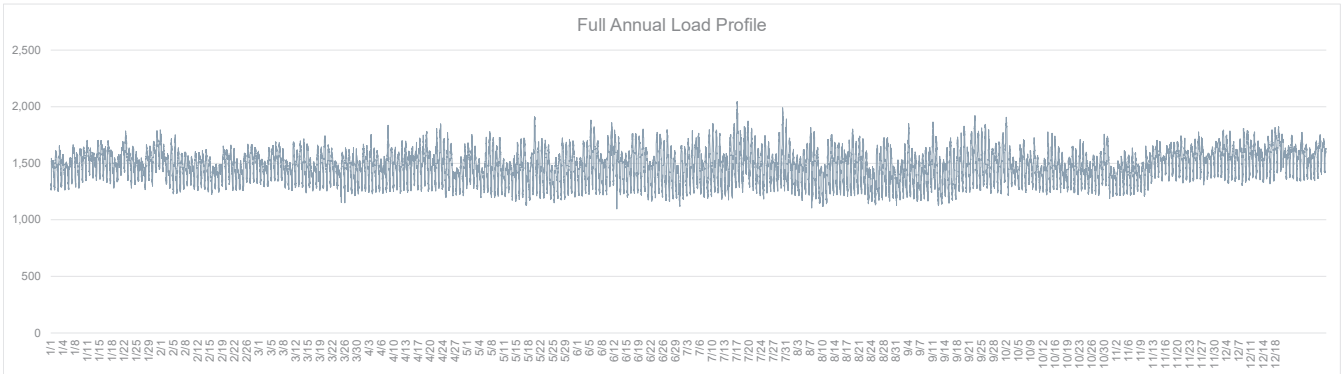
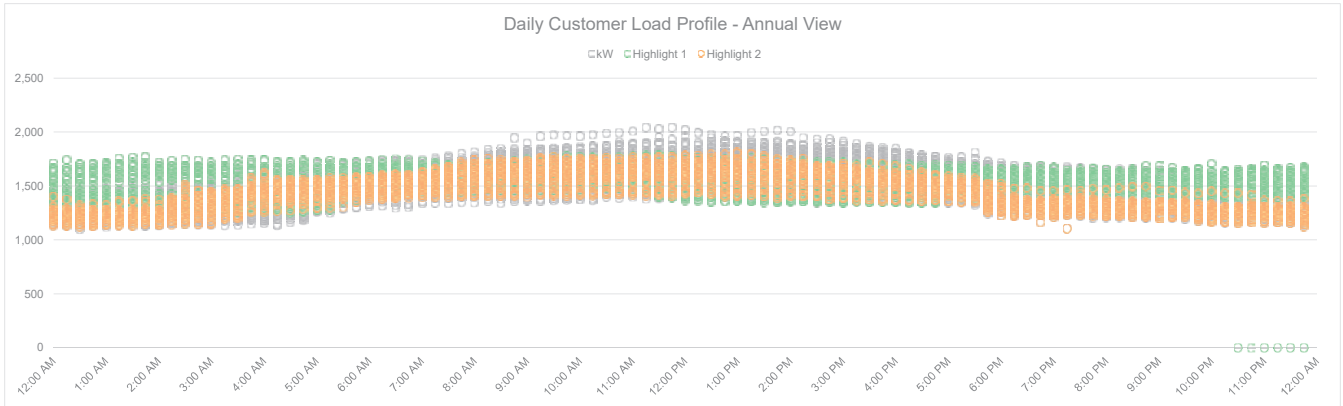
SITE DETAILS	
Utility Tariff	CT - EVR-CT 58-P
Customer Name	NBC Sports
Site Name or Address	1 Blachley Rd - Combined
Utility Account Number	51254016009
Meter Number	25401600
NOTES	
2 substations both flow into a single meter	

SIZING SUMMARY	
Total Days of Complete, Non-Zero Data	365
Annual Load Factor	72%
Total Customer Usage	12,966,664 kWh
Average 15-Min kW	1,480 kW
Average Peak Demand	1,854 kW
Absolute Minimum kW (non-zero)	1,098 kW
Estimated Average Baseload	1,400 kW
Proposed System Size	1,500 kW
Estimated Resulting Net Metering	2.60%

POWER FACTOR SUMMARY (NOT PRINTED)	
Power Factor from Customer Bill	90%
kVars at Peak Demand	205.9874
Inverter Nameplate Required	1,750

NBC Sports - 1 Blachley Rd - Combined (Acct 6009; Meter 1600) - 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.



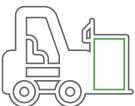
Reliable

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-YASAAN)	
Outputs			
Nameplate power output (net AC)	300kW		
Load output (net AC)	300kW		
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	15.8 tons		
Dimensions (variable layouts)	17'11" x 8'8" x 6'9" or 32'3" 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

4353 North First Street
San Jose, CA 95134

T 408 543 1500
F 408 543 1501

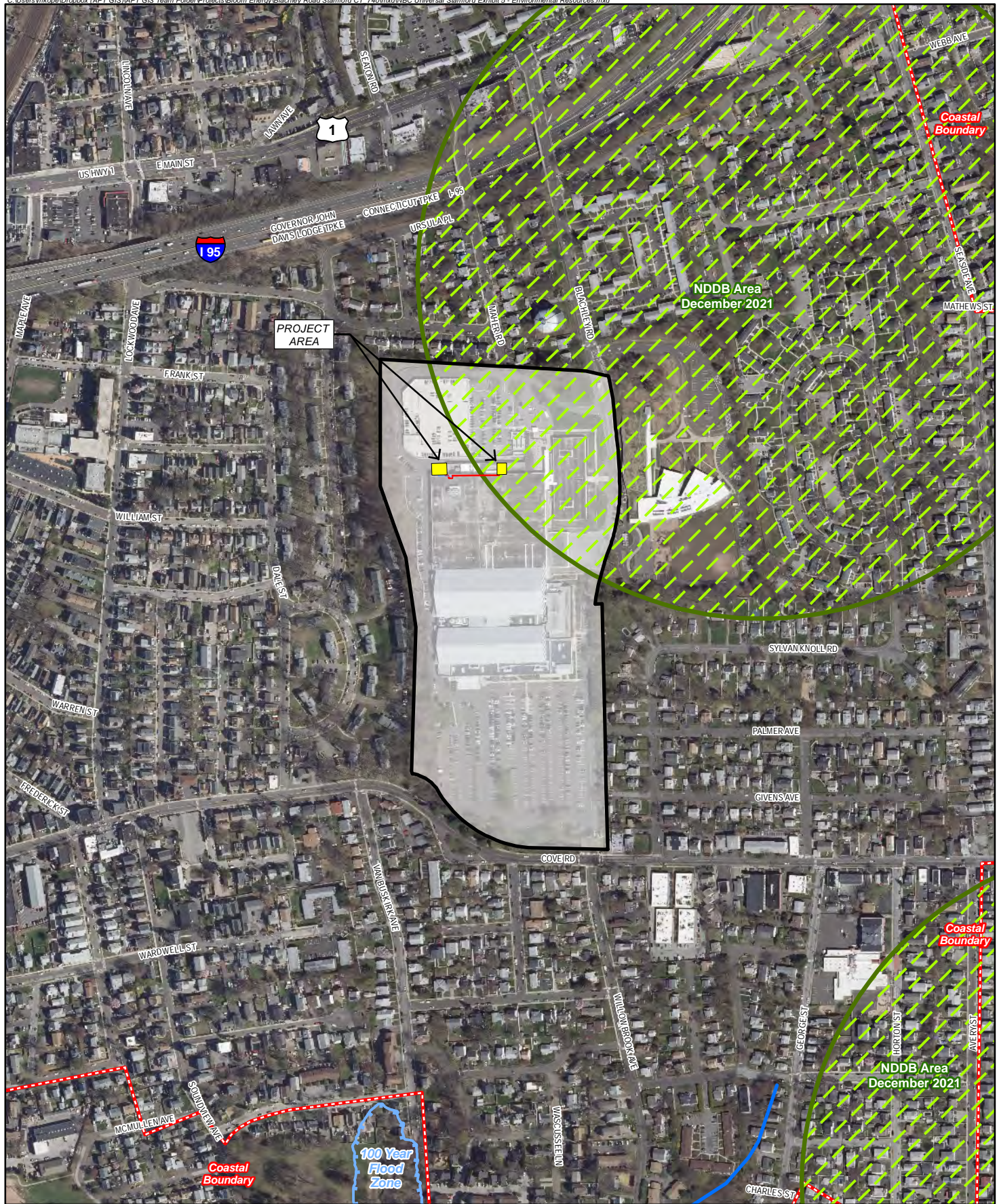
info@bloomenergy.com
www.bloomenergy.com

Be

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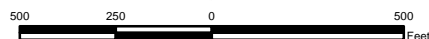


Exhibit 5



- Legend**
- Site
 - Project Area
 - Electrical Service
 - Water Service
 - 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: January 2022



**Exhibit 5
 Environmental Resources**
 Proposed Bloom Energy Facility
 NBC Universal
 1 Blachley Road
 Stamford, 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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8. Utility Outage
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 - 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.

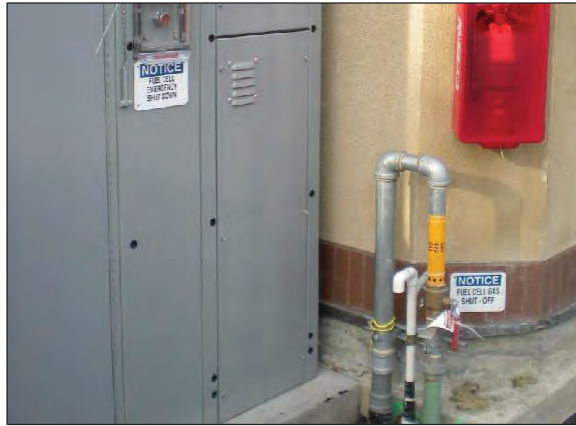


Figure 3: Manual Natural Gas Valve

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

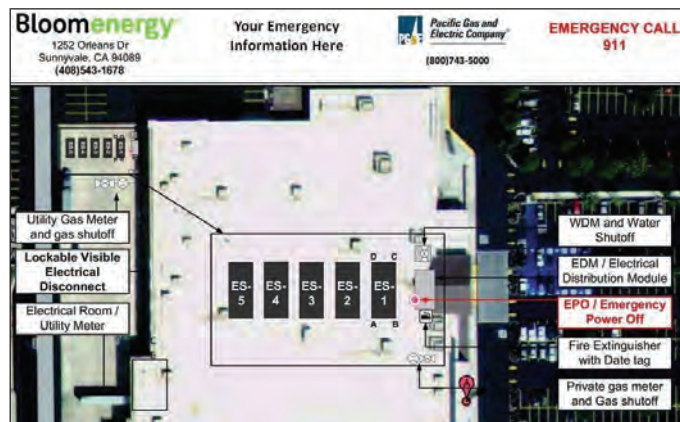


Figure 4: Sample Site Map

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

October 13, 2021

Bloom Energy

4353 North 1st Street
San Jose, California 95134

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

Subject: **NBC Universal Sports; Stamford, Connecticut
Property Line Noise Analysis
Veneklasen Project No. 4631-025**

Dear Brandon:

Veneklasen Associates, Inc. (Veneklasen) was contracted to evaluate noise impact of the proposed fuel cells for the subject project in Stamford, 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 acoustical comments.

Noise Criteria

Chapter 164 “NOISE” Section 164-5 B. provides the following property line noise limits based on emitting and receiving land usages. These are summarized in Table 1 below.

Table 1. City Property Line Noise Limits

Emitter Zone	Receptor 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 noise ordinance also includes language that would allow for an increase in receptor noise limits based on ambient noise. However, traffic counts for local streets are not available to calculate these ambient noise levels. Additionally, it is likely ambient noise in this area would be less than the Commercial-to-Residential Night noise limit of 45 dBA. Veneklasen assumes that fuel cells will run 24-hours per day; therefore, fuel cell property line noise levels are compared to 45 dBA in the following section.

Property Line Noise Analysis

Drawings dated September 18, 2021, indicate that the proposed fuel cells will be installed on the west end of the property between two existing buildings. Proposed fuel cells are shown in green in Figure 1 below. Additionally, the nearest sensitive receptor is annotated in blue. While there are other residential properties nearby, they will experience similar, if not lower, levels than the one identified below. These are therefore combined for the purposes of this analysis.

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.

The calculated fuel cell noise levels as compared with city noise requirements are presented in Table 2 below. Note that the reported distances between property lines and the fuel cells are taken from the closest face of the fuel cell nearest to the associated property line.

Table 2. Fuel Cell Property Line Noise Levels

Sensitive Receptor	Distance from Fuel Cell, ft	Calculated Fuel Cell Noise Level, dBA	Noise Limit, dBA	Code Compliant?
102 Ursula Pl	300	38	45	Yes

All fuel cell noise levels are lower than the required property line noise limits as designed without mitigation measures.

Figure 1. Property Line and Fuel Cell Locations



Summary

Veneklasen has reviewed the subject project proposed fuel cell property line noise levels as they pertain to the applicable Stamford Noise Control Ordinance. Adjacent properties are zoned as residential. According to calculations summarized in this report, property line noise levels are within acceptable limits without any mitigation.

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

Sincerely,
Veneklasen Associates, Inc.

Kevin Patterson
 Kevin Patterson
 Associate

John LoVerde
 John LoVerde, FASA
 Principal

A. 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							LwA
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
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

B. 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

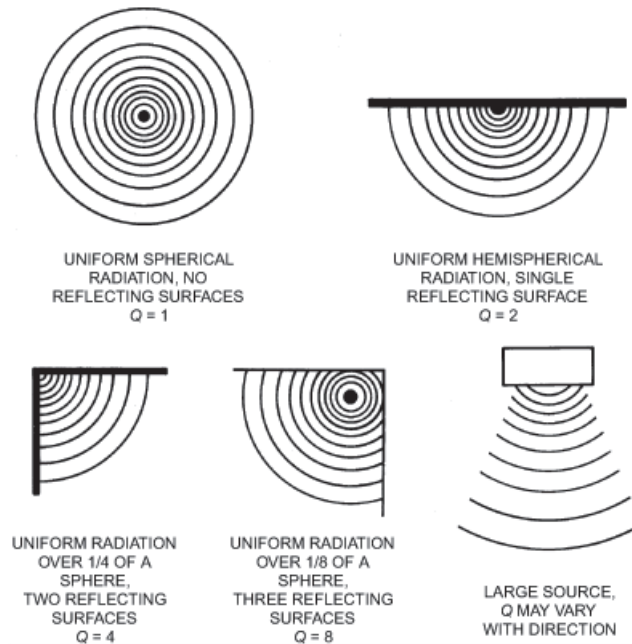


Fig. 30 Directivity Factors for Various Radiation Patterns

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

January 10, 2022

RE: Application of Bloom Energy for the location and construction of a Bloom Energy Server fuel cell installation to provide 1500 kilowatts of Customer-Side Distributed Resource at NBC Universal, 1 Blachley Road, Stamford, 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 January 14, 2022, a petition for declaratory ruling with the Council. The petition will request the Council's approval of the location and construction of a 1500-kilowatt fuel cell installation and associated equipment. The Facility will be located at the NBC Universal office and studio complex at 1 Blachley Road in Stamford, Connecticut (the "Site").

The purpose of the proposed Facility is to replace a portion of NBC Universal'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 parcel

Property ID	Property Address	Owner Name	Mailing Address	Town	State	Zip
004-3506	1 Blachley Road	Stamford Exit 9 III LLC + Stamford Exit 9 IV LLC	46 Westchester Ave.	Pound Ridge	NY	10576
000-4318	75 Orange Street	Robelin and Adeline Juleau	75 Orange St.	Stamford	CT	06902-4204
000-4319	79 Orange Street	Esteban A. Huezo and Rubiela Huezo	79 Orange St.	Stamford	CT	06902-0000
000-6711	83 Orange Street	Kohdeja Akter and Ahmed K. Dawood	83 Orange St.	Stamford	CT	06902-4204
001-9540	87 Orange Street	Irene Ropicki	87 Orange St.	Stamford	CT	06902-4205
001-8136	91 Orange Street	Adeline Florian	91 Orange St.	Stamford	CT	06902-4205
000-1960	95 Orange Street	Gary J. Augustine	95 Orange St.	Stamford	CT	06902-4205
001-3419	99 Orange Street	Therese Jean-Julien and Adrien Jean-Julian	99 Orange St.	Stamford	CT	06902-4205
000-0571	101 Orange Street	Yusheng Wu	16 Chestnut Hill Rd.	Wilton	CT	06897-4603
001-0868	105 Orange Street	Tricia D. Alves and Daniel P. Goodman	105 Orange St.	Stamford	CT	06902-4205
000-9629	109 Orange Street	Dimitrios Hlebogiannis and Veronica Nelson	109 Orange St.	Stamford	CT	06902-0000
001-3075	84 Maher Road	Scott G. Sanseverino	84 Maher Rd.	Stamford	CT	06902
001-1000	89 Blachley Road	Campus Residential I LLC et al. and Campus Residential II LLC	46 Westchester Ave.	Pound Ridge	NY	10576-2147
004-3639	B-2 Blachley Road	City of Stamford	888 Washington Blvd.	Stamford	CT	06901
004-3507	202 Blachley Road	City of Stamford	888 Washington Blvd.	Stamford	CT	06904
001-8747	2 Sylvan Knoll Road	Brian D. Gerard and Donna C. Gerard	2 Sylvan Knoll Rd.	Stamford	CT	06902-5312
002-0170	62 Duffy Street	Jeffrey and Patricia Ann Werdelin	62 Duffy St.	Stamford	CT	06902-5331
001-0632	58 Duffy Street	Michael H. Frengs	58 Duffy St.	Stamford	CT	06902
001-1938	52 Duffy Street	Thomas J. Kipphut, Jr.	52 Duffy St.	Stamford	CT	06902
002-2865	2 Palmer Avenue	Michael and Joanne M. Carpanzano	1-3 Palmer Ave.	Stamford	CT	06902-5339
001-9375	5 Palmer Avenue	Li-Pi Hsieh	5 Palmer Ave.	Stamford	CT	06902-5339
000-6539	2 Givens Avenue	Nur M. Rezu	896 Valley Rd.	Wayne	NJ	07470-2971
001-2971	1 Givens Avenue	Jeffrey Scalise	19 Beach Dr.	Darien	CT	06820
001-2970	590 Cove Road	Despena Lampoglou	144 Haseco Ave.	Port Chester	NY	10573-3908
000-2578	585 Cove Road	Tonya R. Batty	244 Cold Spring Rd.	Stamford	CT	06905-4223
001-5285	565 Cove Road	Marcos Alarcon and Jenny Calderon	106 Soundview Ct.	Stamford	CT	06902
000-3799	557 Cove Road	Mamun Rashid and Noor Mohammed	557 Cove Rd.	Stamford	CT	06902
001-7375	547 Cove Road	Julio E. Sanchez	547 Cove Rd.	Stamford	CT	06902
004-5404	539 Cove Road #A	Sarah Lee Bush Rev. Trust	7201 Promenade Dr., Apt. 501	Boca Raton	FL	33433-2807
004-5405	10 Ranson Street #B	Andrea Bonfigli	10 Ranson St. # B	Stamford	CT	06902-6132
001-6870	525 Cove Road	Mohammed K. Uddin and Mosammat K. Nahar-Salma	525 Cove Rd.	Stamford	CT	06902-6124
002-4235	509 Cove Road	Amanda Carrera and Leonel B. Castillo	509 Cove Rd.	Stamford	CT	06902
000-0223	497 Cove Road	Oswald A. and Maruca C. Johnson	497 Cove Rd.	Stamford	CT	06902-6123
000-7613	489 Cove Road	Two Princesses LLC	45 Woodmere Rd.	Stamford	CT	06905-4836
000-6351	477 Cove Road	Fernando A. Reyes	477 Cove Rd.	Stamford	CT	06902-6123

000-7213	467 Cove Road	Robert J. Festo et al.	467 Cove Rd.	Stamford	CT	06902
003-2590	463 Cove Road	Sean Ohagan and Amy Ohagan	463 Cove Rd. # 1	Stamford	CT	06902
003-2591	463 Cove Road	Mary Mitchell	463 Cove Rd. # 2	Stamford	CT	06902
003-2592	463 Cove Road	Michael Young	463 Cove Rd. UT 3	Stamford	CT	06902
003-2593	463 Cove Road	Ian Alexander and Carla Ladesma	19 Parkway Dr.	Trumbull	CT	06611-4123
003-2594	463 Cove Road	Danncove LLC	1200 Summer St., Suite 201C	Stamford	CT	06905-5537
003-2595	463 Cove Road	Colbert Cruz and Rebecca Cruz	463 Cove Rd. # 6	Stamford	CT	06902-6133
003-2596	463 Cove Road	Maria Dunn Martinez	463 Cove Rd. # 7	Stamford	CT	06902-6133
003-2597	463 Cove Road	Elizabeth Aliaga	463 Cove Rd. # 8	Stamford	CT	06902
003-2598	463 Cove Road	Douglas H. Green	463 Cove Rd. # 9	Stamford	CT	06902-6133
004-5854	461 Cove Road	City of Stamford	888 Washington Blvd.	Stamford	CT	06901-2930
002-8766	459 Cove Road	459 Cove Property LLC	25 Rock Spring Rd.	Stamford	CT	06906-1923
002-8764	453 Cove Road	Victor H. Palacios	53 Hillandale Ave.	Stamford	CT	06902-2805
002-8762	447 Cove Road	TPW Partners LLC	334 Lost District Dr.	New Canaan	CT	06840-2014
002-8761	441 Cove Road	3 As LLC	441 Cove Rd.	Stamford	CT	06902-6123
002-6002	0 Cove Road	City of Stamford	888 Washington Blvd.	Stamford	CT	06901-2930
002-8758	391Cove Road	Bozena Gorski	232 Banks Rd.	Easton	CT	06612
003-8620	0 Ursula Place	City of Stamford Housing Authority	22 Clinton Ave.	Stamford	CT	06901-0000
002-5974	0 Ursula Place	City of Stamford Housing Authority	22 Clinton Ave.	Stamford	CT	06901-0000




OFFICIALS

Name	Title	Mailing Address	Town	State	Zip
William Tong	Attorney General	165 Capitol Avenue	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
Steven Reviczky	Commissioner, Dept. of Agriculture	165 Capitol Avenue	Hartford	CT	06106
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
Richard Blumenthal	Senator	706 Hart Senate Office Building	Washington	DC	20510
Chris Murphy	Senator	136 Hart Senate Office Building	Washington	DC	20510
Jim Himes	U.S. Representative	2137 Rayburn House Office Building	Washington	DC	20515
Patricia Billie Miller	State Senator, 27th District	Legislative Office Building, Room 2300	Hartford	CT	06106
Daniel J. Fox	Representative, 148th District	Legislative Office Building, Room 2202	Hartford	CT	06106-1591
	Western Connecticut Council of Governments	1 Riverside Rd.	Sandy Hook	CT	06482
Caroline Simmons	Mayor, City of Stamford	888 Washington Blvd., 10th Floor	Stamford	CT	06901
Ralph Blessing	Land Use Bureau Chief	888 Washington Blvd.	Stamford	CT	06901
Theresa Dell	Chair, Planning Board	888 Washington Blvd.	Stamford	CT	06901
Gary Stone	Chair, Environmental Protection Board	Stamford Government Center, 888 Washington Blvd., 7th Floor	Stamford	CT	06901
David Stein	Zoning Board	888 Washington Blvd.	Stamford	CT	06901

Vineeta Mathur	Senior Planner, Land Use Bureau	888 Washington Blvd.	Stamford	CT	06901
	Executive Director/Environmental Planner, Environmental Protection Board	Stamford Government Center, 888 Washington Blvd., 7th Floor	Stamford	CT	06901

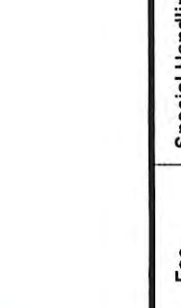


Certificate of Mailing — Firm

Name and Address of Sender Kristen Grillo c/o All-Points Technology Corp., P.C. 567 Vauxhall St. Ext., Suite 311 Waterford, CT 06385	TOTAL NO. of Pieces Listed by Sender 78	TOTAL NO. of Pieces Received at Post Office™ Postmaster, per (name of receiving employee) 	Affix Stamp Here  0000  0000	U.S. POSTAGE PAID WESTERLY, RI 02891 JAN 10, 22 AMOUNT \$23.03 R2304N117205-11	U.S. POSTAGE PAID WESTERLY, RI 02891 JAN 10, 22 AMOUNT \$13.63 R2304N117205-11	
USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)					
1.	Hon. William Tong Attorney General 165 Capitol Ave. Hartford, CT 06106					
2.	Katie Dykes, Commissioner Department of Energy and Environmental Protection 79 Elm St. Hartford, CT 06106-5127					
3.	Marissa Gillett, Chairperson Public Utilities Regulatory Authority 10 Franklin Square New Britain, CT 06051					
4.	Dr. Jewel Mullen, Commissioner Department of Public Health 410 Capitol Ave. Hartford, CT 06134					
5.	Susan D. Merrow, Chair Council on Environmental Quality 79 Elm St. Hartford, CT 06106					
6.	Steven Reviczky, Commissioner Department of Agriculture 165 Capitol Ave. Hartford, CT 06106					



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USPS® Tracking Number Firm-specific Identifier							
1.	Melissa McCaw, Secretary Office of Policy and Management 450 Capitol Ave Hartford, CT 06106						
2.	Joseph Giuliotti, Commissioner Department of Transportation 2800 Berlin Tpke PO Box 317546 Newington, CT 06131-7546						
3.	David Lehman, Commissioner Department of Economic and Community Development 450 Columbus Blvd., Suite 5 Hartford, CT 06103						
4.	Brenda Bergeron, Dep. Commissioner. Division of Emergency Management and Homeland Security 1111 Country Club Rd. Middletown, CT 06457						
5.	Michelle H. Seagull, Commissioner Department of Consumer Protection 450 Columbus Blvd., Suite 901 Hartford, CT 06103						
6.	Josh Geballe, Commissioner Department of Administrative Services 450 Columbus Blvd. Hartford, CT 06103						




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USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage Fee Special Handling Parcel Airlift
1.	Dante Bartolomeo, Interim Commissioner Department of Labor 200 Folly Brook Blvd. Wethersfield, CT 06109	
2.	Hon. Richard Blumenthal Senator 706 Hart Senate Office Building Washington, DC 20510	
3.	Hon. Chris Murphy Senator 136 Hart Senate Office Building Washington, DC 20510	
4.	Hon. Jim Himes U.S. Representative 2137 Rayburn House Office Building Washington, DC 20515	
5.	Hon. Patricia Billie Miller Senator, 27th District Legislative Office Building, Room 2300 Hartford, CT 06106	
6.	Hon. Daniel J. Fox Representative, 148th District Legislative Office Building, Room 2202 Hartford, CT 06106-1591	



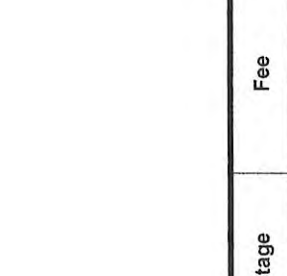


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1.	Western Connecticut Council of Governments 1 Riverside Rd. Sandy Hook, CT 06482					
2.	Hon. Caroline Simmons Mayor, City of Stamford 888 Washington Blvd. 10th Floor Stamford, CT 06901					
3.	Ralph Blessing Land Use Bureau Chief 888 Washington Blvd. Stamford, CT 06901					
4.	Theresa Dell, Chair Planning Board 888 Washington Blvd. Stamford, CT 06901					
5.	Gary Stone, Chair Environmental Protection Board Stamford Government Center 888 Washington Blvd., 7th Floor Stamford, CT 06901					
6.	David Stein, Chair Zoning Board 888 Washington Blvd. Stamford, CT 06901					



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1.	Vineeta Mathur, Senior Planner Land Use Bureau 888 Washington Blvd. Stamford, CT 06901					
2.	Executive Director/Environmental Planner Environmental Protection Board Stamford Government Center 888 Washington Blvd., 7th Floor Stamford, CT 06901					
3.	City of Stamford Housing Authority 22 Clinton Ave. Stamford, CT 06901-0000					
4.	Bozana Gorski 232 Banks Rd. Easton, CT 06612					
5.	3-As LLC 441 Cove Rd. Stamford, CT 06902-6123					
6.	TPWPartners LLC 334 Lost District Dr. New Canaan, CT 06840-2014					



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Kristen Grillo c/o All-Points Technology Corp., P.C. 567 Vauxhall St. Ext., Suite 311 Waterford, CT 06385	Postmaster, per (name of receiving employee)	2022 01 19 PM 11:51 WATERFORD, CT 06385				
1.	Stamford Exit 9 III LLC + Stamford Exit 9 IV LLC 46 Westchester Ave. Pound Ridge, NY 10576					
2.	Robelin and Adeline Juleau 75 Orange St. Stamford, CT 06902-4204					
3.	Esteban A. Huezco and Rubiela Huezco 79 Orange St. Stamford, CT 06902-0000					
4.	Kohdeja-Akter and Ahmed K. Dawood 83 Orange St. Stamford, CT 06902-4204					
5.	Irene Ropicki 87 Orange St. Stamford, CT 06902-4205					
6.	Adeline Florian 91 Orange St. Stamford, CT 06902-4205					



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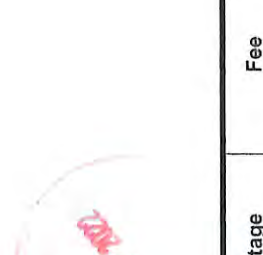
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USPS® Tracking Number Firm-specific Identifier						
1.	Tonya R. Batty 244 Cold Spring Rd. Stamford, CT 06905-4223					
2.	Marcos Alarcon and Jenny Calderon 106 Soundview Ct. Stamford, CT 06902					
3.	Mamun Rashid and Noor Mohammed 557 Cove Rd. Stamford, CT 06902					
4.	Julio E. Sanchez 547 Cove Rd. Stamford, CT 06902					
5.	Sarah Lee Bush Rev. Trust 7201 Promenade Dr., Apt. 501 Boca Raton, FL 33433-2807					
6.	Andrea Bonfigli 10 Ranson St. # B Stamford, CT 06902-6132					






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1.	459 Cove Property, LLC 25 Rock Spring Rd. Stamford, CT 06906-1923				
2.	City of Stamford 888 Washington Blvd Stamford, CT 06901-2930				
3.	Victor H. Palacios 53 Hillendale Ave. Stamford, CT 06902-2805				
4.	Douglas H. Green 463 Cove Rd. #9 Stamford, CT 06902-6133				
5.	Elizabeth Aliaga 463 Cove Rd. #8 Stamford, CT 06902				
6.	Maria-Dunn Martinez 463 Cove Rd. #7 Stamford, CT 06902-6133				





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1.	Thomas J. Kippshut, Jr. 52 Duffy St. Stamford, CT 06902			Michael and Joanne M. Carpanzano 1-3 Palmer Ave. Stamford, CT 06902-5339				
2.	Li-Pi Hsieh 5 Palmer Ave. Stamford, CT 06902-5339			Nur M. Rezu 896 Valley Rd. Wayne, NJ 07470-2971				
3.	Jeffrey Scalise 19 Beach Dr. Darien, CT 06820			Despina Lampoglou 144 Haseco Ave. Port Chester, NY 10573-3908				
4.								
5.								
6.								



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Kristen Grillo c/o All-Points Technology Corp., P.C. 567 Vauxhall St. Ext., Suite 311 Waterford, CT 06385	Postmaster, per (name of receiving employee)					
1.	Campus Residential I LLC et al. and Campus Residential II LLC 46 Westchester Ave. Pound Ridge, NY 10576-2147					
2.	City of Stamford 888 Washington Blvd. Stamford, CT 06901					
3.	City of Stamford 888 Washington Blvd. Stamford, CT 06904					
4.	Brian D. Gerard and Donna C. Gerard 2 Sylvan Knoll Rd. Stamford, CT 06902-5312					
5.	Jeffrey and Patricia Ann Werdelin 62 Duffy St. Stamford, CT 06902-5331					
6.	Michael H. Erengs 58 Duffy St. Stamford, CT 06902					





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Name and Address of Sender

Kristen Grillo
c/o All-Points Technology Corp., P.C.
567 Vauxhall St. Ext., Suite 311
Waterford, CT 06385

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Address
(Name, Street, City, State, and ZIP Code™)

Postage

Fee

Special Handling

Parcel Airlift

1.

Gary J. Augustine
95 Orange St.
Stamford, CT 06902-4205

2.

Therese Jean-Julien and Adrien Jean-Julian
99 Orange St.
Stamford, CT 06902-4205

3.

Yusheng Wu
16 Chestnut Hill Rd.
Wilton, CT 06897-4603

4.

Tricia D. Alves and Daniel P. Goodman
105 Orange St.
Stamford, CT 06902-4205

5.

Dimitrios Hliebogiannis and Veronica Nelson
109 Orange St.
Stamford, CT 06902-0000

6.

Scott G. Sanseverino
84 Maher Rd.
Stamford, CT 06902



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1.	Two Princesses LLC 45 Woodmere Rd. Stamford, CT 06905-4836				
2.	Fernando A. Reyes 477 Cove Rd. Stamford, CT 06902-6123				
3.	Robert J. Festo et al. 467 Cove Rd. Stamford, CT 06902				
4.	Mohammed K. Uddin and Mosammat K. Nahar-Saima 525 Cove Rd. Stamford, CT 06902-6124				
5.	Amanda Carrera and Leonel B. Castillo 509 Cove Rd. Stamford, CT 06902				
6.	Oswald A. and Maruca C. Johnson 497 Cove Rd. Stamford, CT 06902-6123				





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1.	Ian Alexander and Carla Ladesma 19 Parkway Dr. Trumbull, CT 06611-4123				
2.	Danncove LLC 1200 Summer St., Suite 201C Stamford, CT 06905-5537				
3.	Colbert Cruz and Rebecca Cruz 463 Cove Rd. # 6 Stamford, CT 06902-6133				
4.	Sean Ohagan and Amy Ohagan 463 Cove Rd. # 1 Stamford, CT 06902				
5.	Mary Mitchell 463 Cove Rd. # 2 Stamford, CT 06902				
6.	Michael Young 463 Cove Rd. UT 3 Stamford, CT 06902				

Exhibit 9

From: [Jennifer Young Gaudet](#)
To: "stamfordlanduse@stamfordct.gov"
Subject: 1 Blachley Road - Bloom Energy fuel cell installation, NBC Universal
Date: Friday, December 10, 2021 8:51:00 AM
Attachments: [image001.png](#)
[Bloom Energy - NBC Universal 1 Blachley Road.pdf](#)

Attn: Vineeta Mathur, AICP

Dear Ms. Mathur:

I am writing on behalf of Bloom Energy in connection with a planned fuel cell installation at the NBC Universal facility on Blachley Road. 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 the north side of the NBC Universal building and south of the parking garage.

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