Bloomenergy

March 30, 2017

Justin Adams
Bloom Energy Corporation
1299 Orleans Drive
Sunnyvale, CA 94089

RE: **PETITION NO. 1292 -** Bloom Energy Corporation, as an agent for Digital Realty, petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the construction, operation and maintenance of a Customer-Side 2 Megawatt Fuel Cell Facility to be located at the Digital Realty building, 80 Merritt Boulevard, Trumbull, Connecticut.

Dear Ms. Bachman,

We are submitting an original and fifteen (15) copies of the interrogatories response for Petition NO. 1292.

Sincerely

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

Bloomenergy

Bloom Energy Corporation
Digital Realty, 80 Merritt Boulevard, Trumbull CT

Interrogatories

1. Provide the certified mail receipts for all recipients that were provided notice including the abutting property owners, state agencies, and state and local public officials.

The certified mail receipts have been emailed to the Council to reduce the paper usage required to provide 16 copies.

2. Petition page 10 states there would be no water connection to the facility; however, the site plans depict a water connection and water deionizers are proposed. Please clarify.

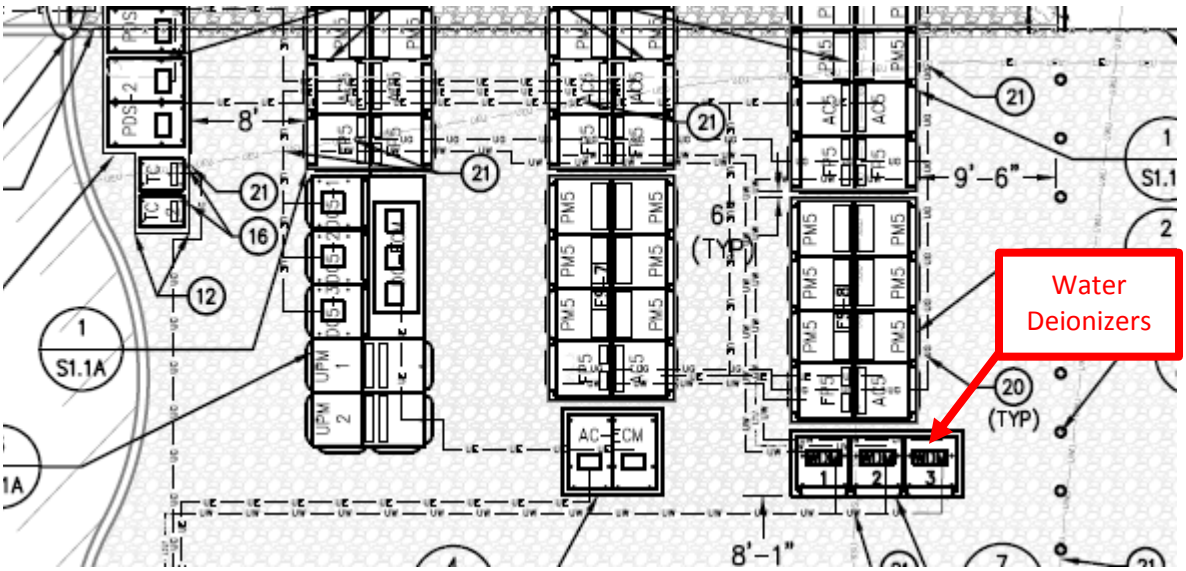
Yes, there is a water supply connection to the proposed facility. The statement on page 10 of the petition should state that, "there are no connections **to** discharge points to the proposed facility."

3. Provide more information regarding the water deionizers, as follows;
   a. Are the water deionizers permanent or temporary?

The water deionizers are permanent.

   b. Please identify their location on the site plan.

These are labeled on the provided site plan as Water Distribution Modules or "WDM". See below.



   c. If needed after facility start up, how often would they be used and how would they be maintained?

The WDM only be used upon start up. If the fuel cell system shuts down for maintenance or other reasons, water is used to start back up and the WDM would therefore be needed. They would be maintained as part of the standard operation and maintenance schedule for the Facility.

d. How do they operate (e.g., chemical, ion exchange, etc.)?

The resin beds in the WDM use Ion-exchange resin technology to deionize the water.

4. The revised site plan submitted on March 13, 2017, Sheet C1.1 shows 7 parking spots being removed but the associated text states 8. Additionally one of the spots depicted as being removed is also shown as being retained. Please clarify.

In the area adjacent to the proposed location, 8 perpendicular parking spaces will be replaced with 3 parallel spaces. Exhibit 2 has been revised and the arrow identifying a space that will be retained was removed. Additionally, a parking plan for the entire site is provided as Exhibit 14. As shown in the parking plan the Site currently has 205 spaces, and 206 spaces are being proposed at the conclusion of the project.

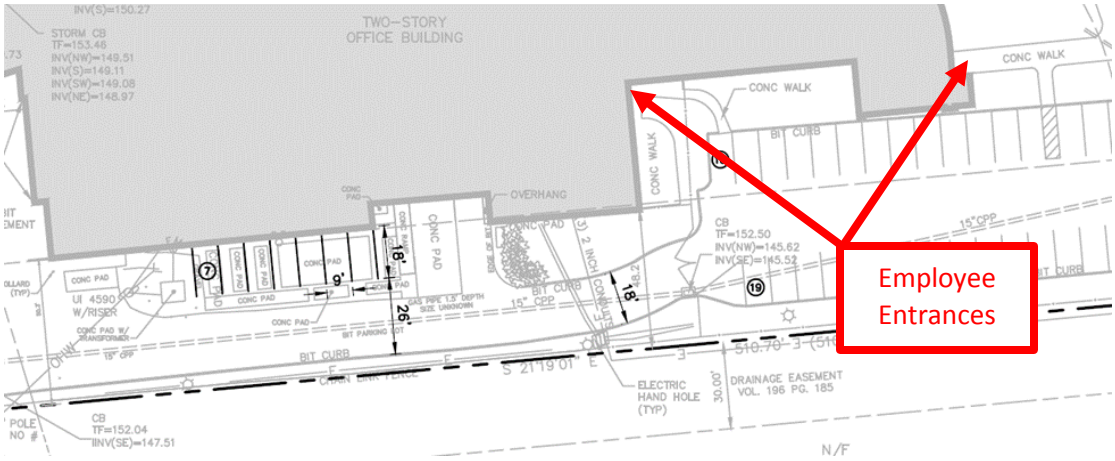
5. The site plan states the facility would be enclosed by a chain link fence that matches existing, adjacent fencing. Please provide fence detail.

A fence detail is provided in the revised Exhibit 2.

6. Petition page 14 mentions outreach to the Town of Trumbull. Did the Town express any concerns during consultation? If so, please elaborate.

Their concerns and Bloom's response are provided below.

1) **Trumbull Comment:** The 7 new parking space are located in an area where I believe few to no one will utilize. It is located in the rear of the building where access to the building in unknown. **Bloom Response:** Bloom has proposed these new spaces in close collaboration with the owner's (Digital Realty). The spaces would be used by Digital Realty employees who occupy that side of the Building and can access through the employee entrances shown below and in Exhibit 14.



2) **Trumbull Comment:** The parking spaces are next to an existing transformer. If the spaces will be located in this area more bollards should be required as a vehicle can still maneuver and hit the transformer.
Bloom Response: Exhibit 2 has been revised with the addition of two (2) bollards that will protect the transformer from the adjacent parking space.
3) **Trumbull Comment:** A planting and landscaping plan should be submitted to show the type of buffering and require that the trees being planted be of a required height like 4-6 feet. Make sure there is enough room to properly plant the trees from the curb to put a fence behind.
Bloom Response: Based on the landscape plan prepared during the expansion of the building in 2012 (Exhibit 15), 2-2.5 gallon Buckthorn (*Ramnus Frangula)* were planted along the fence. Bloom will replace with new 3-gallon Buckthorn. These shrubs grow to be 60-84 inches tall, require 24 - 36 inch spread, and are commonly used to provide a vegetative buffer along fencing. The space between the proposed fence and the curb is 24 inches, which allows enough space for the proposed Buckthorn.
4) **Trumbull Comment:** What is the Decibel level? Will it go beyond the property line?
Bloom Response: According to the noise analysis submitted as part of the petition (Exhibit 10), the noise levels at the property boundary located 40 feet to the west are predicted at 59.7 dBA, which is in compliance with the State of Connecticut Regulations for the Control of Noise that allow for a 62 dBA noise level from a commercial emitter to the property line of a commercial receptor. Any noise levels that go beyond the property line would be below 59.7 dBA.
5) **Trumbull Comment:** Make sure that the distance from the fuel cells and the parking spaces across the aisle allow enough room for someone to pull in or out.
Bloom Response: In an email from the Sr. Deputy Fire Marshal on March 16 (Exhibit 16), he confirmed that the distance between the proposed Facility and the parking would "suffice." Based on this feedback, Bloom believe that the space provided for parallel parking would allow enough space for someone to pull in or out.
6) **Trumbull Comment:** Will there be any new lighting?
Bloom Response: No.

7) **Trumbull Comment:** Trumbull Planning and Zoning Department would like to see this as a site plan modification application through the Planning and Zoning Commission due to the parking and structure changing.
Bloom Comment: Under Connecticut General Statutes §16-50x, the Connecticut Siting Council has exclusive jurisdiction over the construction, maintenance and operation of fuel cell facilities, as well as other electric generating facilities, substations, transmission lines and cell towers in the state in lieu of all certifications, approvals and other requirements of state and municipal agencies. Project developers are not required to also submit a site plan modification application to the host municipality for review.
8) **Trumbull Comment:** Will any signage be submitted for safety.
Bloom Response: Exhibit 2 has been revised to include the placarding plan for the site. Bloom typically includes this sheet as part of their building applications.

7. Petition page 4 states a portion of the eight ES-5 fuel cell units would operate independent of the power grid, supplying power to critical loads when grid power is out. Page 10 of the Emergency Response Plan and Site Plan Cover Sheet G0.1 (FAQs) both state the fuel cell facility would shut down when grid power is lost. Please clarify.

On page 10 of the Emergency Response Plan, it states that if utility provided power is lost for any reason, the fuel cell system will go "off-line" not shut down. When fuel cell system is off-line, it will remain in stand-by mode until it automatically senses the utility grid has been restored. If utility gas is lost or shut off, the fuel cell system will begin to shut down completely.

In the event of a utility outage the fuel cell will continue to supply power to the critical standalone load, however, the grid parallel portion will remain in standby until the utility returns and the grid parallel output will automatically reconnect. Digital Realty personnel are instructed to never attempt to start up or operate the fuel cell system among other safety precautions. Because this site has a UPM, additional safety information supplements the Emergency Response Plan via onsite training and the Energy Server Customer Manual for UPMs (See Exhibit 17).

The FAQ on the Site Plan Cover Sheet G0.1 (FAQs) has been revised to better reflect what occurs when grid power is lost. See below.

Q: What happens to the fuel cell system when the utility power shuts down?

Revised A: Upon a utility outage the fuel cell will continue to supply power to the critical standalone load, however, the grid parallel portion will remain in stand-by until the utility returns and the grid parallel output will automatically reconnect.

8. Clarify the energy output of the ES-5 servers when grid power is lost. Collectively, do the eight units produce 800 kW or 1.6 MW when grid power is out?

Based on an analysis of the critical load demand for the building, 400kW (max) will be provided when grid power is out.

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Revised Exhibit 2

811 Know what's below. Call before you dig.

PRIOR TO COMMENCING ANY EXCAVATION OR DEMOLITION, THE CONTRACTOR SHALL CONTACT LOCAL UTILITIES, INCLUDING BUT NOT LIMITED TO ELECTRICAL, GAS, WATER, CABLE, AND TELEPHONE, REQUESTING A UTILITY MARK OUT AND AS NECESSARY RETAIN THE SERVICES OF A PRIVATE UTILITY MARK OUT COMPANY TO PERFORM SUCH MARK OUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND VERIFY THE LOCATION OF UTILITIES, IRRIGATION, SITE LIGHTING, AND ELECTRICAL LINES IN THE VICINITY OF THE CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR ANY AND ALL UTILITIES DAMAGED BY THE CONTRACTOR'S OPERATION AT NO ADDITIONAL EXPENSE.

EXTERIOR FUEL CELL INSTALLATION FOR DIGITAL REALTY GROUP

80 MERITT BLVD.
TRUMBULL, CT 06611

Bloomenergy®

SITE INFORMATION

PARCEL INFORMATION

PROPERTY OWNER	DIGITAL REALTY TRUST
COUNTY	FAIRFIELD
TAX MAP #	K0915 & K0917

PROPERTY DESCRIPTION

PROPERTY TYPE	DATA CENTER
PROPERTY AREA*	358,935 S.F.
DISTURBED AREA	± 3,500 S.F.

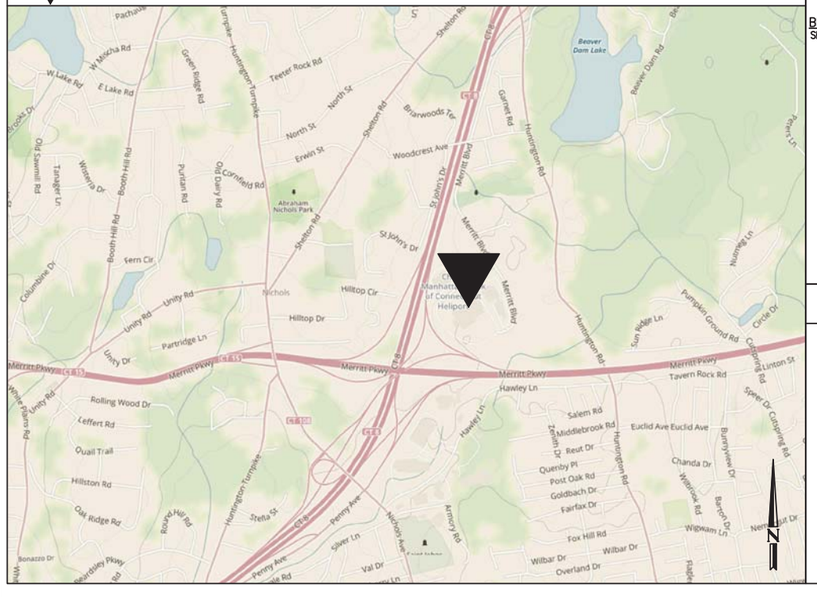
PARKING INFORMATION

REQUIRED PARKING SPACES**	206 SPACES INCLUDING 7 RESERVED WITH 2 VAN ACCESSIBLE
EXISTING PARKING SPACES	205 SPACES INCLUDING 6 RESERVED WITH 1 VAN ACCESSIBLE
PROPOSED PARKING SPACES	206 SPACES INCLUDING 7 RESERVED WITH 2 VAN ACCESSIBLE

*BASED ON TRUMBULL, CT VISION GOVERNMENT SOLUTIONS (2016)
**PER ZBA APPLICATION #12-22

VICINITY MAP (NTS)

PROJECT SITE



PERMITTING INFORMATION

MUNICIPAL

AGENCY	DEPARTMENT	CONTACT INFO
PLANNING	TOWN OF TRUMBULL PLANNING AND ZONING DEPARTMENT	(203) 452-5047
BUILDING	TOWN OF TRUMBULL BUILDING DEPARTMENT	(203) 452-5020
FIRE	TOWN OF TRUMBULL FIRE MARSHAL	(203) 452-5080

UTILITY

TYPE	COMPANY	CONTACT INFO
NATURAL GAS	SOUTHERN CONNECTICUT GAS	(800) 659-8299
ELECTRICAL	UNITED ILLUMINATING COMPANY	(203) 499-2000
WATER	AQUARION WATER COMPANY	(203) 337-5991

CODES

2012 INTERNATIONAL BUILDING CODE (STATE BUILDING CODE, 2016 CT SUPPLEMENT)
2014 NATIONAL ELECTRIC CODE (NFPA 70)
2012 INTERNATIONAL ENERGY CONSERVATION CODE
2005 STATE FIRE SAFETY CODE
2012 NATIONAL FIRE PROTECTION ASSOCIATION 101
2012 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL PLUMBING CODE

PROJECT TEAM CONTACTS

FIRM	ADDRESS	CONTACT INFO
MANUFACTURER		
BLOOM ENERGY	1299 ORLEANS DR. SUNNYVALE, CA 94089	(408) 543-1500
CUSTOMER		
DIGITAL REALTY GROUP	80 MERITT BLVD. TRUMBULL, CT 06611	(203) 953-3792
BLOOM ENERGY		
SRIHARI RAGHAVAN, PE	1299 ORLEANS DR. SUNNYVALE, CA 94089	(408) 543-1500

DRAWING INDEX

SHEET #	DWG #	SHEET TITLE
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03	G1.1	OVERALL SITE PLAN
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06	S1.1B	PAD REBAR LAYOUT 1
07	S1.1C	PAD REBAR LAYOUT 2
08	S1.1D	PAD ANCHOR LAYOUT 1
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11	C2.1B	DETAILS SHEET 2
12	C2.2	DETAILS SHEET 3
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15	E3.1A	ELECTRICAL SINGLE LINE DIAGRAM
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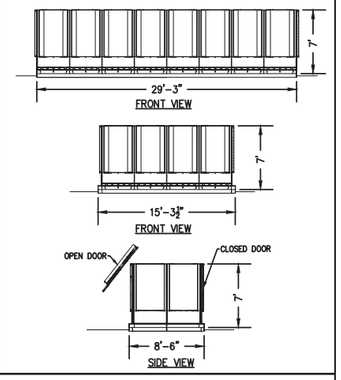
20	M1.1	PLACARD PLAN
21	R0.1	BLOOM PRODUCT DATA SHEET

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE INSTALLATION OF EIGHT (8) BLOOM ENERGY ES5 OUTDOOR NATURAL GAS CLEAN ENERGY SERVER AND TWO (2) UNINTERRUPTIBLE POWER MODULE (UPM) . THE CLEAN ENERGY SERVER IS SUPPORTED ON A CONCRETE PAD. THE WORK INCLUDES ALL ITEMS LISTED IN THE SCOPE OF WORK.



SCOPE OF WORK

THE SCOPE OF THIS PROJECT WILL CONSIST OF THE FOLLOWING:

1. CIVIL WORK
   - EXISTING ASPHALT/YARD SHALL BE CUT/REMOVED FOR NEW EQUIPMENT PAD FOR BLOOM ENERGY SERVER.
   - EXISTING SUBGRADE AT CONCRETE CUT WILL BE PREPARED FOR THE NEW EQUIPMENT WEIGHT.
   - NEW TRENCH FROM BLOOM ENERGY SERVER TO BUILDING FOR GAS, WATER AND ELECTRICAL CONNECTIONS BETWEEN BLOOM ENERGY SERVER AND BUILDING. TRENCH TO BE BACKFILLED AND NEW CONCRETE COVER TO BE PROVIDED.
   - NEW ENERGY SERVER CONCRETE PAD AND ANCILLARY CONCRETE PAD TO BE PLACED AT PREPARED SURFACE AT ASPHALT CUT OUT.
   - NEW BOLLARDS TO BE INSTALLED TO PROTECT BLOOM ENERGY SERVER.
   - NEW FENCE TO BE PROVIDED AROUND THE BLOOM ENERGY SERVER
2. ELECTRICAL WORK
   - NEW ELECTRICAL FEEDERS BETWEEN BLOOM ENERGY SERVER AND EXISTING MAIN SERVICE SWITCHBOARD.
3. PLUMBING WORK
   - NEW WATER CONNECTION FROM POTABLE WATER SOURCE IN FACILITY TO BLOOM ENERGY SERVER.
   - NEW NATURAL GAS CONNECTION. NEW METER AND REGULATOR REQUIRED.

BLOOM ENERGY FAQ's

Q: WHAT IS A BLOOM ENERGY SERVER?
A: THE BLOOM ENERGY SERVER IS A STATIONARY FUEL CELL POWER SYSTEM.
Q: IS THE BLOOM PRODUCT LISTED OR CERTIFIED?
A: YES. ES-5 SERIES:
- THE FUEL CELL IS UL LISTED AS A "STATIONARY FUEL CELL POWER SYSTEM" TO ANSI/CSA AMERICA FC 1-2004.
- IT IS UL LISTED UNDER UL CATEGORY IRGZ AND UL FILE NUMBER MH45102.

ES5 SERIES:
- THE FUEL CELL IS UL LISTED AS A "STATIONARY FUEL CELL POWER SYSTEM" TO ANSI/CSA FC 1-2014.
- IT IS UL LISTED UNDER UL CATEGORY IRGZ AND UL FILE NUMBER MH45102.

Q: WHERE ARE FUEL CELLS COVERED IN THE NATIONAL ELECTRICAL CODE (NEC)?
A: FUEL CELLS ARE COVERED IN ARTICLE 692 OF THE NEC (NFPA 70). FUEL CELLS HAVE BEEN INCORPORATED INTO THE NEC SINCE 2002.
Q: WHAT IS THE MODEL NUMBER OF THIS PRODUCT?
A: PLEASE SEE THE DATA SHEET PROVIDED WITH THIS FAQ.
Q: WHAT IS THE NOISE LEVEL OF THE FUEL CELL SYSTEM?
A: FOR SPECIFIC DB RANGES, PLEASE REFER TO THE DATA SHEET PROVIDED WITH THIS FAQ.
Q: DO BLOOM FUEL CELL SYSTEMS PROVIDE LIFE SAFETY POWER?
A: NO. WE ARE NOT LIFE SAFETY AND DO NOT PROVIDE LIFE SAFETY POWER, EVEN WHEN A UPM IS INSTALLED. WE ARE NOT ALTERING WHATEVER LIFE SAFETY IS CURRENTLY PRESENT AT THE FACILITY.
Q: IS THE BLOOM FUEL CELL SYSTEM TAMPER-PROOF?
A: YES. THE FUEL CELLS ARE SECURED IN PLACE AND DOORS ARE SECURED AND LOCKED. ONLY BLOOM SERVICE PERSONNEL HAVE THE KEYS AND CAN BE ON-SITE WITHIN 24 HOURS.
Q: WHAT HAPPENS TO THE CUSTOMER FACILITY POWER IF THE FUEL CELLS SHUT DOWN?
A: THE FUEL CELL SYSTEM IS OPERATED IN GRID-PARALLEL MODE. IF THE UTILITY GRID IS OPERATIONAL, THE CUSTOMER FACILITY WILL RECEIVE POWER FROM THE GRID AND NOTICE NO DIFFERENCE.
Q: WHAT HAPPENS TO THE FUEL CELL SYSTEM WHEN THE UTILITY POWER SHUTS DOWN?
A: UPON A UTILITY OUTAGE THE FUEL CELL WILL CONTINUE TO SUPPLY POWER TO THE CRITICAL STANDALONE LOAD, HOWEVER, THE GRID PARALLEL PORTION WILL REMAIN IN STANDBY UNTIL THE UTILITY RETURNS AND THE GRID PARALLEL OUTPUT WILL AUTOMATICALLY RECONNECT.
Q: WHAT HAPPENS TO THE FUEL CELL SYSTEM WHEN THE UTILITY GAS SHUTS DOWN?
A: IF THE UTILITY GAS IS INTERRUPTED, THE FUEL CELL SYSTEM WILL AUTOMATICALLY SHUT DOWN AS WELL.
Q: CAN THE FUEL CELL SYSTEM BE SHUT DOWN LOCALLY IN CASE OF AN EMERGENCY?
A: YES. IF THE FUEL CELL MUST BE SHUT DOWN RIGHT AWAY--FOR EXAMPLE, IN CASE OF A BUILDING FIRE OR ELECTRICAL HAZARD--TWO SHUTOFF CONTROLS ARE INSTALLED AT THE FACILITY EXTERNAL TO THE SYSTEM. THE LOCATIONS OF THESE TWO CONTROLS SHOULD BE KNOWN TO THE FACILITIES MANAGER BEFORE OPERATION AND SHOULD BE NOTED ON THE SITE DIAGRAM THAT IS CREATED FOR EACH SITE DURING INSTALLATION. THE TWO SHUTOFFS ARE:
(1) THE ELECTRICAL DISCONNECT SWITCH AND
(2) THE MANUAL NATURAL GAS SHUTOFF VALVE. A THIRD SHUTOFF, AN EMERGENCY POWER OFF (EPO) BUTTON, MAY BE PROVIDED ON-SITE.
Q: DOES THE BLOOM FUEL CELL SYSTEM OPERATE 24/7?
A: YES.
Q: ARE THE BLOOM FUEL CELL SYSTEMS MONITORED?
A: YES. BLOOM FUEL CELL SYSTEMS ARE CONTROLLED REMOTELY AND HAVE INTERNAL SENSORS THAT CONTINUOUSLY MONITOR SYSTEM OPERATION. IF SAFETY CIRCUITS DETECT A CONDITION OUTSIDE NORMAL OPERATING PARAMETERS, THE FUEL SUPPLY IS STOPPED AND INDIVIDUAL SYSTEM COMPONENTS ARE AUTOMATICALLY SHUT DOWN. A BLOOM ENERGY REMOTE OPERATOR CAN ALSO REMOTELY INITIATE ANY EMERGENCY SEQUENCE. AN EMERGENCY STOP ALARM INITIATES AN AUTOMATIC SHUTDOWN SEQUENCE THAT PUTS THE SYSTEM INTO "SAFE MODE" AND CAUSES IT TO STOP EXPORTING POWER. IF YOU HAVE QUESTIONS ABOUT ANY OF THESE SAFETY FEATURES, PLEASE CONTACT BLOOM ENERGY AT CUSTOMERCARE@BLOOMENERGY.COM.
Q: WHAT ARE THE EMISSIONS GENERATED BY BLOOM FUEL CELL SYSTEMS?
A: THE SPECIFIC PERCENTAGE OF CARBON EMISSION REDUCTIONS ARE DEPENDENT ON YOUR STATE'S GENERATION MIX, BUT BLOOM FUEL CELL SYSTEMS VIRTUALLY ELIMINATE NOX, SOX, AND OTHER CRITICAL AIR POLLUTANTS THAT ARE FOUND IN TRADITIONAL ELECTRICITY GENERATION METHODS. FOR SPECIFIC EMISSIONS RANGES, PLEASE REFER TO THE DATA SHEET PROVIDED WITH THIS FAQ.
Q: WHAT IS THE SUSTAINABILITY IMPACT OF BLOOM FUEL CELL SYSTEMS?
A: BLOOM FUEL CELL SYSTEMS GENERATE ELECTRICITY ON-SITE THROUGH AN EFFICIENT ELECTROCHEMICAL REACTION WITHOUT COMBUSTION. DUE TO THE HIGH EFFICIENCY (60%-53% COMPARED TO A COMBINED CYCLE NATURAL GAS PLANT WITH EFFICIENCY OF 40-45% OR COAL PLANTS AT 35%) BLOOM ENERGY SERVERS REDUCE CARBON EMISSIONS BY 20-50% COMPARED TO THE US GRID EMISSION RATES. THE VARIATION IN EMISSIONS REDUCTION IS DUE TO THE VARIATION IN HOW DIFFERENT STATES GENERATE ELECTRICITY. IN ADDITION, BLOOM FUEL CELL SYSTEMS USE NO WATER DURING NORMAL OPERATION

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ENGINEER OF RECORD
SRIHARI RAGHAVAN, P.E.
LICENSE # 30981

CUSTOMER SITE

DIGITAL REALTY TRUST
80 MERITT BLVD.
TRUMBULL, CT 06611

DIGITAL REALTY

REVISION HISTORY

REV	REVISION ISSUE	DATE
0	RELEASED PER ICN-10385	02/23/2017

DESIGNED BY PARTHA JOSHI	DATE 01/17/2017
DRAWN BY TIM SHREVE	DATE 03/06/2017
REVIEWED BY PARTHA JOSHI	DATE 03/06/2017
APPROVED BY SRI RAGHAVAN	DATE 03/06/2017

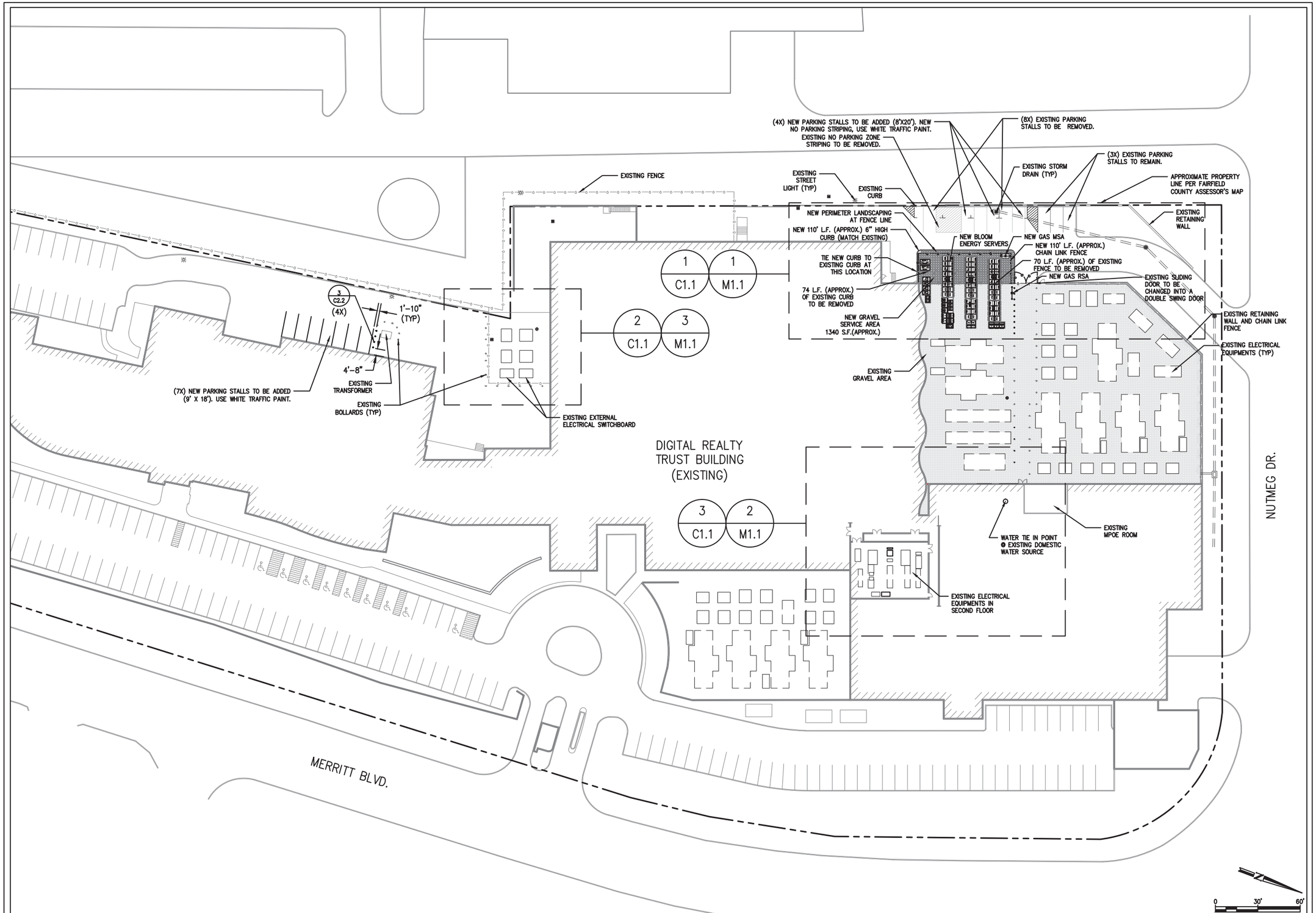
SHEET TITLE
COVER SHEET

DRAWING NUMBER
G0.1

BLOOM DOCUMENT
DOC-1008490

THIS DRAWING IS 24" X 36" AT FULL SIZE

SITE ID: DGR000.0 | SHEET 01 OF 21



OVERALL SITE PLAN (1 / G1.1)
SCALE: 1" = 30'

Bloomenergy

1299 ORLEANS DRIVE
SUNNYVALE, CA 94089

PROPRIETARY AND CONFIDENTIAL

SEAL

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CUSTOMER SITE

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DIGITAL REALTY

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SHEET TITLE

OVERALL SITE PLAN

DRAWING NUMBER

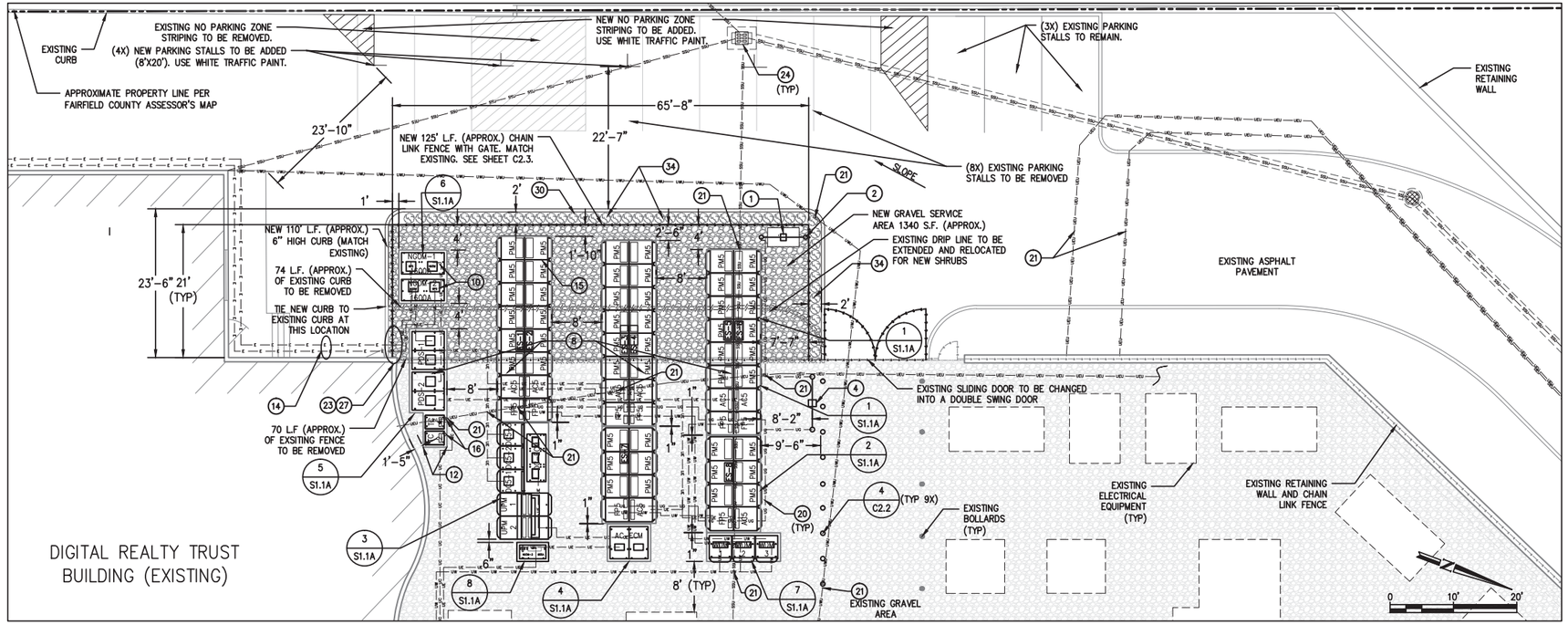
G1.1

BLOOM DOCUMENT

DOC-1008490

THIS DRAWING IS 24" X 36" AT FULL SIZE

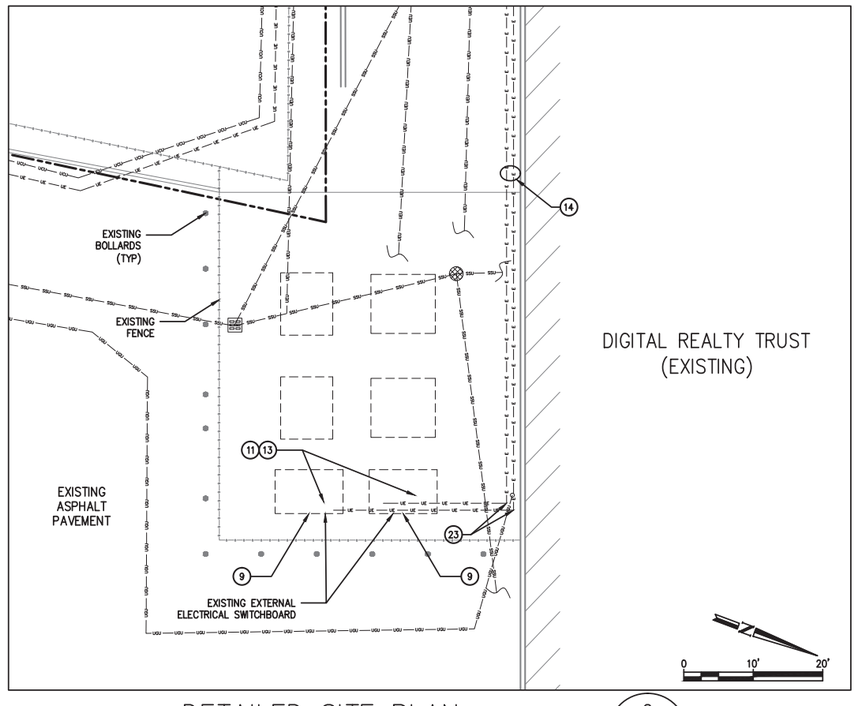
SITE ID: DGR000.0 | SHEET 03 OF 21



DETAILED SITE PLAN

SCALE: 1" = 10'

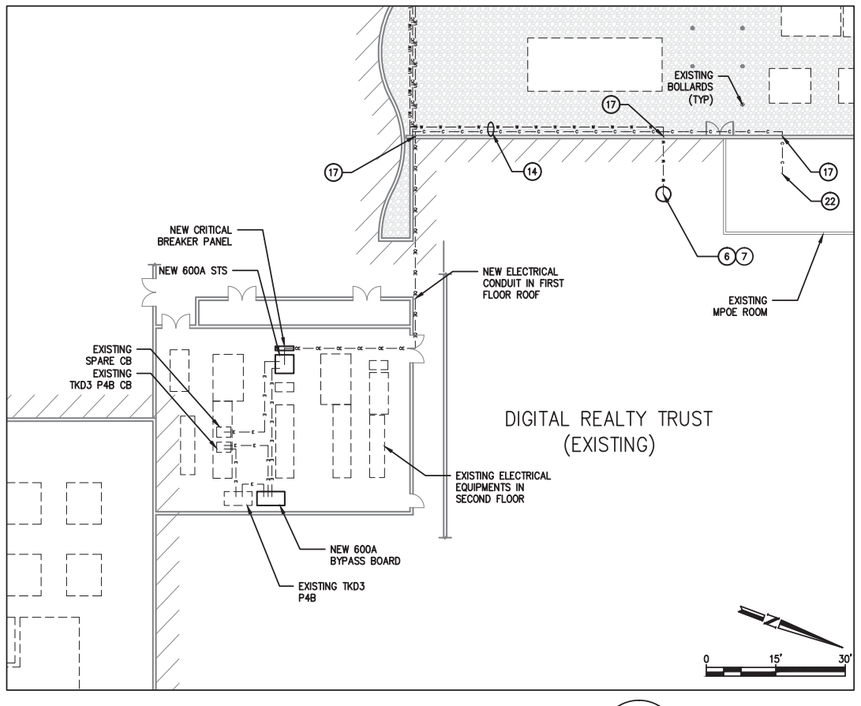
1 / C1.1



DETAILED SITE PLAN

SCALE: 1" = 10'

2 / C1.1



DETAILED SITE PLAN

SCALE: 1" = 15'

3 / C1.1

GENERAL NOTES

1. CLEAN AND PRIME ALL NEW WIRE MOUNTED PIPING AND CONDUIT. PIPING AND CONDUIT SHALL BE PAINTED WITH EXTERIOR GRADE PAINT TO MATCH EXISTING.
2. 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.
3. SLOPE LINES SHOWN ARE APPROXIMATE AND INTENDED TO SHOW THE GENERAL DIRECTION OF WATER RUN OFF; SLOPE LINES ARE DRAWN PER VISUAL SURVEY OF SURROUNDING AREA.
4. FOR UTILITY CONNECTIONS FROM ANCILLARY EQUIPMENT TO SYSTEM SEE PRODUCT INSTALLATION DRAWINGS.

REFERENCE SHEET NOTES

1. NEW UTILITY PROVIDED AND INSTALLED GAS METER ASSEMBLY. CONTRACTOR SHALL PROVIDE PAD PER DETAILS IF REQUIRED BY UTILITY COMPANY. COORDINATE ALL CONNECTIONS WITH GAS UTILITY.
2. NEW UNDERGROUND GAS SERVICE TAP BY UTILITY COMPANY. COORDINATE WITH GAS UTILITY.
4. NEW PRIVATE GAS REGULATOR SET ASSEMBLY FOR ENERGY SERVER WITH SHUT-OFF VALVE. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
5. NEW 3" GAS PIPE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
6. 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.
7. NEW WATER PIPE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. REFER TO WATER RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
8. CONTRACTOR SHALL REPLACE EXISTING STORM DRAIN PIPE UNDER SYSTEM WITH DUCTILE IRON PIPE AND MATCH EXISTING SIZE EXTENDING A MINIMUM 4' BEYOND SYSTEM.
9. EXISTING UTILITY ELECTRIC METER. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
10. NEW BLOOM PROVIDED, CONTRACTOR INSTALLED, DISCONNECT SWITCH. MOUNT TO WALL PER MANUFACTURER AND UTILITY SPECIFICATIONS.
11. CONTRACTOR SHALL TERMINATE ELECTRIC FEEDER AS SHOWN. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
12. CONTRACTOR SHALL PROVIDE TWO GROUNDING RODS TO BE PLACED 6' APART MINIMUM. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
13. NEW ELECTRICAL FEEDER SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
14. MOUNT NEW CONDUIT/PIPE TO EXTERIOR WALL. COORDINATE EXACT ROUTING WITH CUSTOMER REPRESENTATIVE IN THE FIELD. REFER TO WALL MOUNTING DETAIL FOR ADDITIONAL REQUIREMENTS.
15. NEW BLOOM ENERGY SERVER. REFER TO BLOOM STANDARD INSTALLATION DRAWING SET FOR ADDITIONAL ENERGY SERVER DETAILS.
16. FACTORY WIRED ENERGY SERVER EMERGENCY POWER-OFF SWITCH (EPO).
17. 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.
19. 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.
20. CONTRACTOR SHALL EXCAVATE UNDER ENERGY SERVERS AND ANCILLARY PADS LOCATIONS. REFER TO PAD DETAILS FOR ADDITIONAL EXCAVATION AND BACKFILL REQUIREMENTS.
21. 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.
22. CONTRACTOR SHALL PROVIDE NEW CONDUIT AND CABLE FROM NEW UTILITY GAS MSA TO CUSTOMER MPOE FOR UTILITY BILLING. REFER TO BLOOM ENERGY PRODUCT INSTALLATION DRAWINGS FOR CONNECTION REQUIREMENTS.
23. 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.
24. PROVIDE "DANDY SACK" OR EQUAL WITH OUTFLOW PORTS AT STORM DRAIN INLET. REFER TO EROSION CONTROL DETAIL FOR ADDITIONAL REQUIREMENTS.
34. CONTRACTOR SHALL PROVIDE NEW LANDSCAPING AT FENCE LINE. PLANT TYPE TO BE BUCKTHORN – RHAMNUS FRANGULA, FINE LINE 3-GALLON.

Bloom energy

1299 ORLEANS DRIVE
SUNNYVALE, CA 94089

SEAL

Bloom energy

1299 Orleans Drive,
Sunnyvale, CA 94089
t: (408) 543-1500

ENGINEER OF RECORD
SRIHARI RAGHAVAN, P.E.
LICENSE # 30981

CUSTOMER SITE

DIGITAL REALTY TRUST
80 MERITT BLVD.
TRUMBULL, CT 06611

DIGITAL REALTY

REVISION HISTORY		
REV	REVISION ISSUE	DATE
0	RELEASED PER ICN-10385	02/23/2017

DESIGNED BY PARTHA JOSHI	DATE 01/17/2017
DRAWN BY TIM SHREVE	DATE 03/06/2017
REVIEWED BY PARTHA JOSHI	DATE 03/06/2017
APPROVED BY SRI RAGHAVAN	DATE 03/06/2017

SHEET TITLE

DETAILED SITE PLAN

DRAWING NUMBER

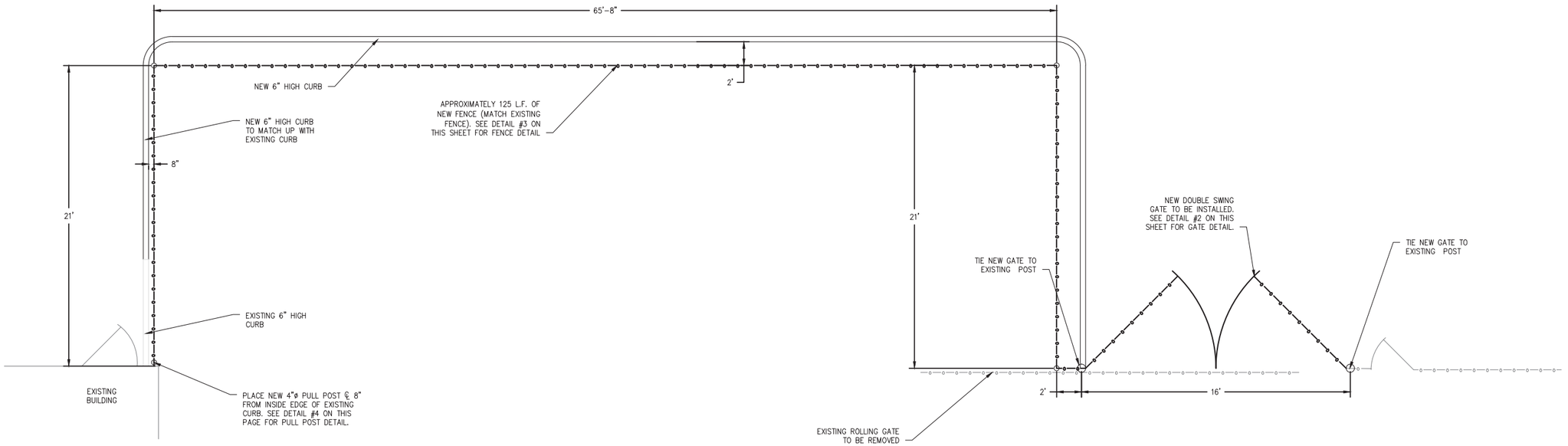
C1.1

BLOOM DOCUMENT

DOC-1008490

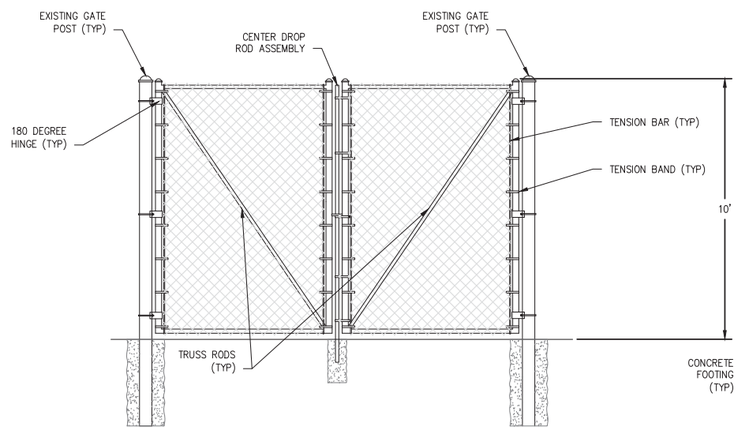
THIS DRAWING IS 24" X 36" AT FULL SIZE

SITE ID: DGR000.0 | SHEET 04 OF 21



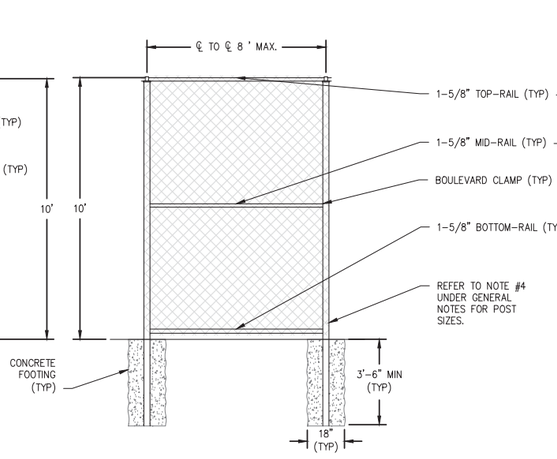
NEW FENCE/GATE PLAN VIEW (1 / C2.3)

SCALE: NTS



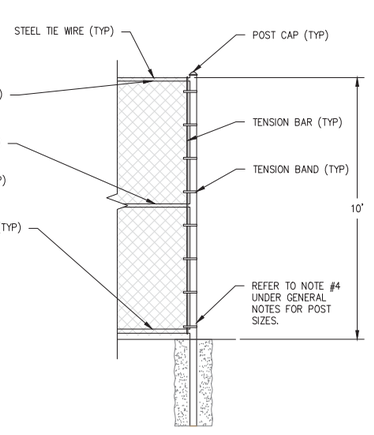
DOUBLE SWING GATE (2 / C2.3)

SCALE: NTS



LINE POST DETAIL (3 / C2.3)

SCALE: NTS



PULL POST DETAIL (4 / C2.3)

SCALE: NTS

GENERAL NOTES:

1. INSTALL APPROXIMATELY 125 L.F. OF NEW CHAIN LINK FENCE WITH GATE.
2. REPLACE EXISTING ROLLING GATE WITH DOUBLE SWINGING GATE.
3. FOR ALL NEW FENCING USE 1/2" BLACK 2B VINYL 10 GA. CHAIN LINK FENCE WITH TOP RAIL, MID RAIL, & BOTTOM RAIL.
4. POST SIZE SCHEDULE:
   a. LINE POST TO BE 3"ø
   b. PULL/CORNER POSTS TO BE 4"ø

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SEAL

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SRIHARI RAGHAVAN, P.E.
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CUSTOMER SITE

DIGITAL REALTY TRUST
80 MERITT BLVD.
TRUMBULL, CT 06611

DIGITAL REALTY

REVISION HISTORY		
REV	REVISION ISSUE	DATE
0	RELEASED PER ICN-10385	**02/23/2017**

DESIGNED BY PARTHA JOSHI	DATE 01/17/2017
DRAWN BY TIM SHREVE	DATE 03/06/2017
REVIEWED BY PARTHA JOSHI	DATE 03/06/2017
APPROVED BY SRI RAGHAVAN	DATE 03/06/2017

SHEET TITLE

DETAILS
SHEET 3

DRAWING NUMBER

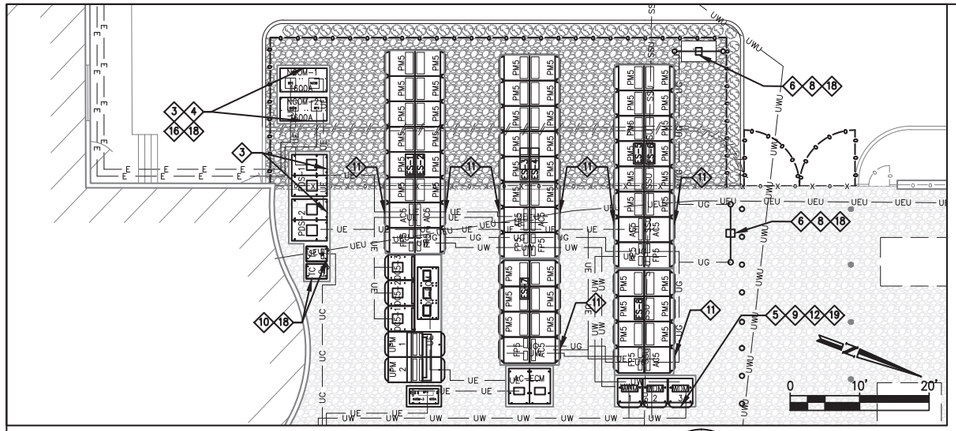
C2.3

BLOOM DOCUMENT

DOC-1008490

THIS DRAWING IS 24" X 36" AT FULL SIZE

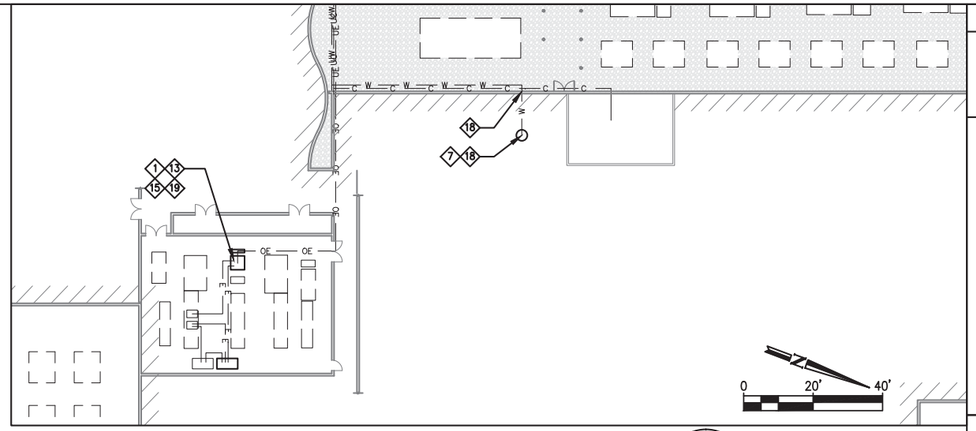
SITE ID: DGR000.0 | SHEET 13 OF 21



ES AREA PLACARD PLAN

SCALE: 1" = 10'

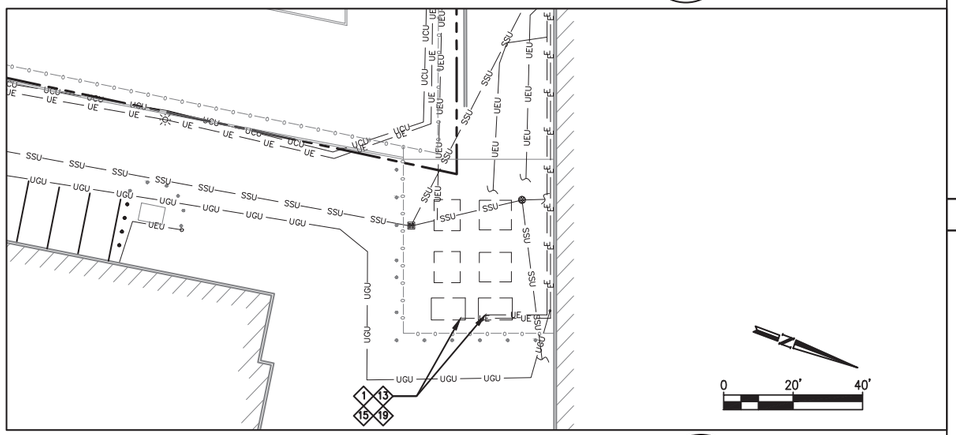
1 / M1.1



WATER TAP PLACARD PLAN

SCALE: 1" = 20'

2 / M1.1



ELEC TIE IN PLACARD PLAN

SCALE: 1" = 20'

3 / M1.1

GENERAL NOTES

1. BELOW SIGNS ARE FURNISHED BY BLOOM ENERGY AND INSTALLED BY THE CONTRACTOR.
2. ANY ADDITIONAL SIGNS NEEDED BY AHJS AND UTILITIES TO BE PROVIDED AND INSTALLED BY CONTRACTOR.

1'–2"

WARNING – GENERATOR INSTALLED ON PREMISES

FUEL CELL POWER SYSTEM PRODUCES ELECTRICAL ENERGY

POSSIBLE DANGER OF ELECTRICAL BACKFEED

CHECK INSTALLATION BEFORE PERFORMING ANY WORK DISCONNECT SWITCH IS LOCATED – [OPEN LINE FOR WRITE IN]

10"

TEXT: 1/2" HIGH RED LETTERING
BACKGROUND: WHITE
MATERIAL: SELF–ADHESIVE VINYL

SIGN SHOULD BE MOUNTED AT POINT OF COMMON COUPLING, NEAR UTILITY METER. PLACE 5' FROM THE GROUND OR AS SPACE IS PROVIDED CENTERED ON UNIT.

1

10"

WARNING

FUEL CELL POWER SYSTEM

OUTPUT. DO NOT RELOCATE

THIS CIRCUIT BREAKER

TEXT: 1/2" HIGH RED LETTERING
BACKGROUND: WHITE
MATERIAL: SELF–ADHESIVE VINYL

SIGN SHOULD BE MOUNTED ON INTERCONNECTION CIRCUIT BREAKER IN MAIN SWITCHBOARD (LOAD SIDE TAPS ONLY)

2

7"

DANGER

ELECTRICAL SHOCK HAZARD – DO NOT TOUCH TERMINALS – BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

5"

HEADER: DANGER
TEXT: BLACK AND WHITE LETTERING
BACKGROUND: WHITE, BLACK, & RED
MATERIAL: SELF–ADHESIVE VINYL

SIGN SHOULD BE MOUNTED ON ALL ELECTRICAL PROTECTIVE DEVICES, PLACED 5' FROM THE GROUND CENTERED ON UNIT.

3

10"

[WRITE IN] LOCKABLE VISIBLE GENERATOR DISCONNECT SWITCH

7"

TEXT: 1/2" HIGH RED LETTERING
BACKGROUND: WHITE
MATERIAL: PLASTIC

SIGN SHOULD BE MOUNTED ON THE FRONT OF THE ELECTRICAL DISCONNECT SWITCH, CENTERED ON UNIT AS SPACE IS PROVIDED.

4

10" × 10"

1 (BLUE) / 2 (RED) / 0 (WHITE)

NFPA PANEL COLORED TO CODE
BLUE = HEALTH = 2;
RED = FLAMMABILITY = 1;
YELLOW = INSTABILITY = 0;
WHITE = HAZARD = NONE

SIGN SHOULD BE MOUNTED AT ENTRANCE TO ES UNIT AREA (COMMONLY WDM), PLACE 5' FROM THE GROUND CENTERED ON UNIT.

5

7"

NOTICE

FUEL CELL GAS SHUT–OFF

5"

HEADER: NOTICE
TEXT: BLACK AND WHITE LETTERING
BACKGROUND: WHITE & BLUE
MATERIAL: PLASTIC

SIGN SHOULD BE MOUNTED ON OR AS NEAR AS POSSIBLE TO THE POINT OF CONNECTION TO THE GAS UTILITY.

6

8"

WATER

TEXT: WHITE LETTERING
BACKGROUND: GREEN
MATERIAL: ROLL FORM PIPE MARKERS

SIGN SHOULD BE MOUNTED ON THE FRONT OF THE WATER TAP & SHUT OFF VALVE.

7

8"

GAS

TEXT: WHITE LETTERING
BACKGROUND: YELLOW
MATERIAL: ROLL FORM PIPE MARKERS

SIGN SHOULD BE MOUNTED ON OR AS NEAR AS POSSIBLE TO UTILITY GAS METER

8

NOT IN USE

9

7"

NOTICE

FUEL CELL EMERGENCY SHUT DOWN

5"

HEADER: NOTICE
TEXT: BLACK & WHITE LETTERING
BACKGROUND: WHITE & BLUE
MATERIAL: PLASTIC

SIGN SHOULD BE MOUNTED ON THE FRONT OF THE ENERGY SERVER EMERGENCY POWER–OFF SWITCH (EPO), PLACED 5' FROM THE GROUND.

10

6"

ES 1 | UPM 1

ES 2 | UPM 2

2"

TEXT: ENGRAVED WHITE LETTERING
BACKGROUND: GREEN
MATERIAL: PLASTIC

SIGN SHOULD BE MOUNTED ON THE EDGE AND IN THE CENTER OF EACH ENERGY SERVER UNIT AND ON THE EDGE AND UNDER THE CENTER OF EACH UPM FACING THE ENTRANCE SIDE OF THE SITE

11

7"

NO SMOKING

5"

TEXT: BLACK & RED LETTERING
BACKGROUND: WHITE
MATERIAL: PLASTIC

SIGN SHOULD BE MOUNTED AT ENTRANCE TO ES UNIT AREA (COMMONLY WDM), PLACE 5' FROM THE GROUND CENTERED ON UNIT.

12

8"

WARNING!
(2) SOURCES OF POWER:
FUEL CELL BACKFEED

3"

TEXT: 1/2" HIGH WHITE LETTERING
BACKGROUND: RED
MATERIAL: PLASTIC

SIGN SHOULD BE MOUNTED AT POINT OF COMMON COUPLING, NEAR UTILITY METER. CENTERED ON UNIT AS SPACE IS AVAILABLE.

13

NOT IN USE

14

7"

SOURCE 1

2"

TEXT: 1/2" HIGH WHITE LETTERING
BACKGROUND: RED
MATERIAL: PLASTIC

SIGN SHOULD BE MOUNTED NEXT TO MAIN DISCONNECT IN CUSTOMER MAIN SWITCHBOARD, CENTERED ON UNIT AS SPACE IS AVAILABLE.

15

7"

SOURCE 2

2"

TEXT: 1/2" HIGH WHITE LETTERING
BACKGROUND: RED
MATERIAL: PLASTIC

SIGN SHOULD BE MOUNTED ON FUEL CELL INTERCONNECTION CIRCUIT BREAKER (IF LOAD SIDE TAP) OR FUEL CELL DISCONNECT SWITCH (IF LINE SIDE TAP) AND CENTERED.

16

NOT IN USE

17

4"

CALL BLOOM ENERGY BEFORE TURNING OFF. (408) 543–1678

1.5"

TEXT: 1/2" HIGH RED LETTERING
BACKGROUND: WHITE
MATERIAL: SELF ADHESIVE VINYL

SIGN SHOULD BE MOUNTED AT ANY AND ALL ELECTRICAL DISCONNECTING MEANS, ALL WATER VALVES, ALL GAS VALVES AND EPO SWITCH, CENTERED IF POSSIBLE.

18

SITE SPECIFIC SITE MAP

MATERIAL: PLASTIC

SIGN SHOULD BE MOUNTED ON THE FRONT DOOR OF THE MAIN SWITCHBOARD AND AT THE ENTRANCE TO THE ES AREA (COMMONLY WDM), CENTERED ON UNIT AS SPACE IS AVAILABLE.

19

NOT IN USE

20

NOT IN USE

21

NOT IN USE

22

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ENGINEER OF RECORD
SRIHARI RAGHAVAN, P.E.
LICENSE # 30981

CUSTOMER SITE

DIGITAL REALTY TRUST
80 MERITT BLVD.
TRUMBULL, CT 06611

DIGITAL REALTY

REVISION HISTORY		
REV	REVISION ISSUE	DATE
0	RELEASED PER ICN–10385	02/23/2017

DESIGNED BY PARTHA JOSHI	DATE 01/17/2017
DRAWN BY TIM SHREVE	DATE 03/06/2017
REVIEWED BY PARTHA JOSHI	DATE 03/06/2017
APPROVED BY SRI RAGHAVAN	DATE 03/06/2017

SHEET TITLE

PLACARD PLAN

DRAWING NUMBER

M1.1

BLOOM DOCUMENT

DOC–1008490

THIS DRAWING IS 24" X 36" AT FULL SIZE

SITE ID: DGR000.0 | SHEET 19 OF 21

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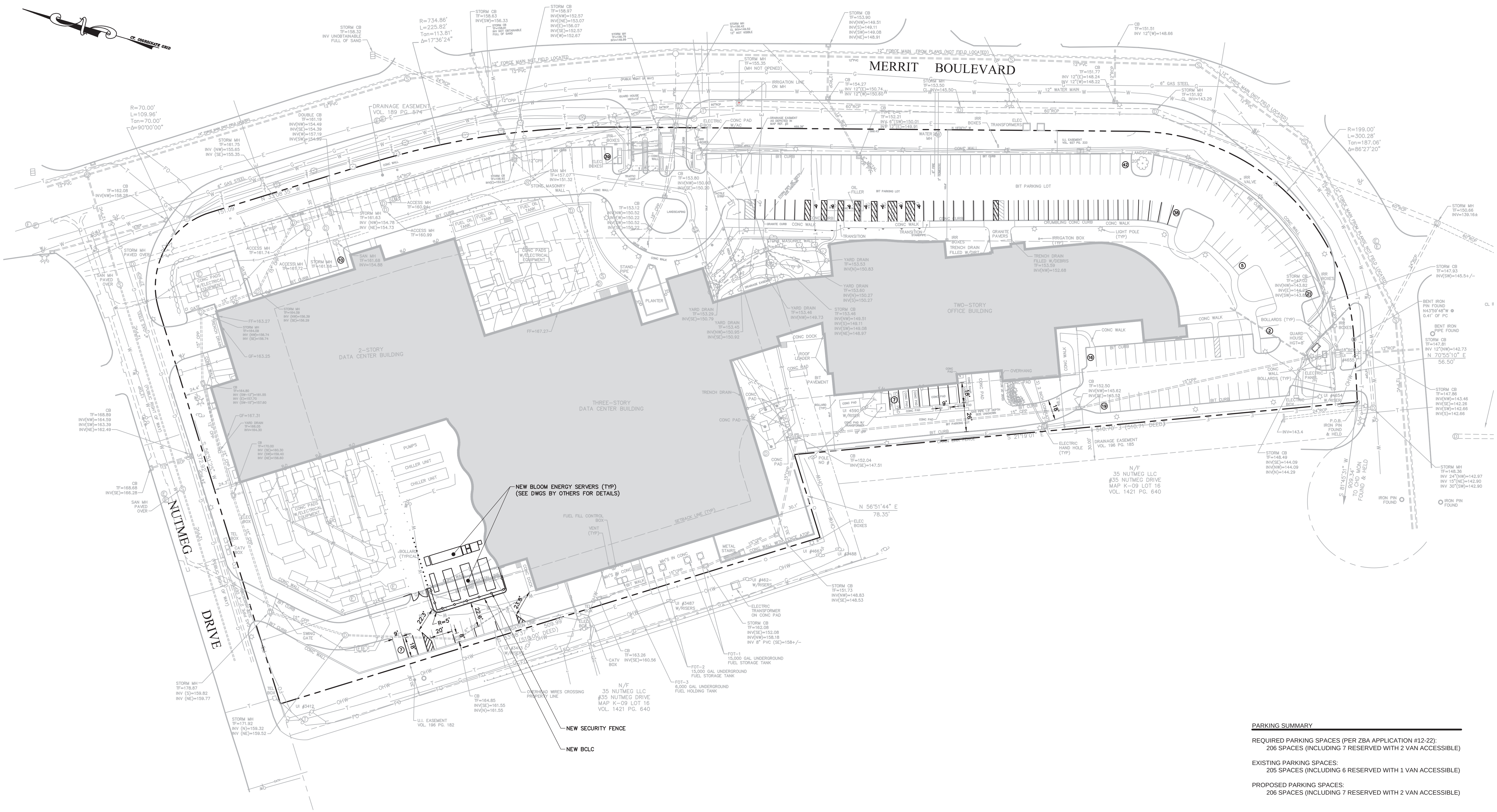
Exhibit 14



PARKING SUMMARY

REQUIRED PARKING SPACES (PER ZBA APPLICATION #12-22):
206 SPACES (INCLUDING 7 RESERVED WITH 2 VAN ACCESSIBLE)

EXISTING PARKING SPACES:
205 SPACES (INCLUDING 6 RESERVED WITH 1 VAN ACCESSIBLE)

PROPOSED PARKING SPACES:
206 SPACES (INCLUDING 7 RESERVED WITH 2 VAN ACCESSIBLE)

40 0 40 80
SCALE: 1" =40'

PEREIRA ENGINEERING, LLC
Civil • Environmental • Land Surveying
One Enterprise Drive, Suite 312
Shelton, CT 06484
Phone: (203) 944-9944
Fax: (203) 944-9945

CERTIFICATION

REVISIONS

NO.	BY	DATE	REMARKS

DES EFH
DWN EFH
CKD JCP

PREPARED FOR
DIGITAL REALTY TRUST
FOR PROPERTY LOCATED AT
60-80 MERRITT BOULEVARD
TRUMBULL, CONNECTICUT

FUEL CELL PROJECT
SITE PLAN

SCALE: 1"=40'

DATE MARCH 1, 2017
C SHEET 1 OF 1
CAD REF. NO. 0821EBASE

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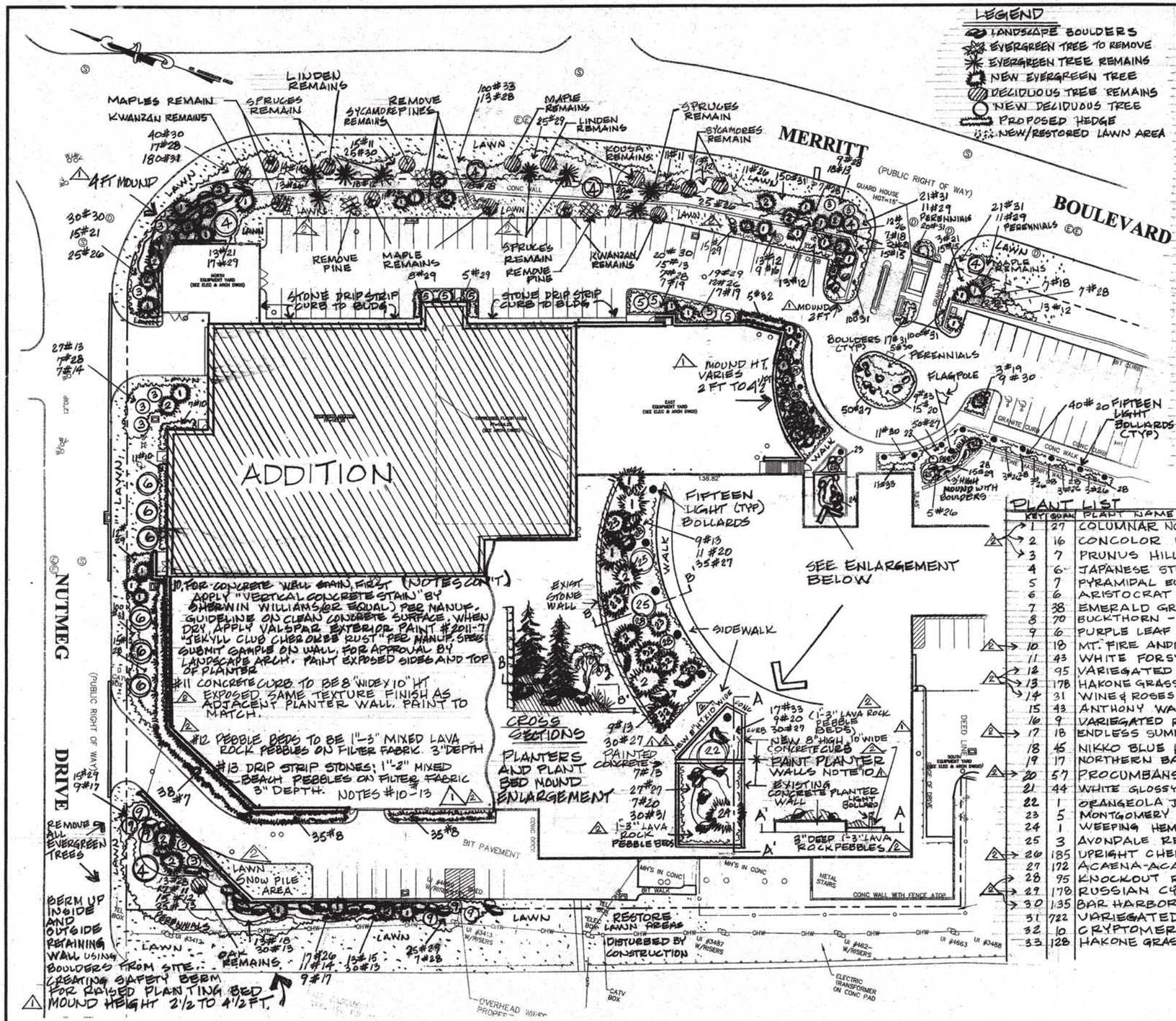
Exhibit 15



GENERAL NOTES

1. PLAN SHOWS TREES TO REMAIN AND REMOVE. LANDSCAPE ARCHITECT WILL TAG THOSE TREES AND SCHRUBS TO REMOVE.
2. PROTECT THOSE TO REMAIN BY SNOWFENCING
3. CO-ORDINATE WITH OWNER, ENGINEERS, ARCHITECT, AND PROJECT MANAGER FOR VERIFICATION OF UNDERGROUND FIBEROPTIC CABLES, UTILITIES, CONDUITS AND PIPES PRIOR TO REMOVAL AND DIGGING AND GRADING OPERATIONS.
4. ONLY NORTHERN GROWTH PLANT MATERIAL IS PERMITTED. AND SHALL BE APPROVED AND TAGGED BY TOWN TREE WARDEN AND/OR LANDSCAPE ARCHITECT AT PLANT NURSERY PRIOR TO DIGGING. HE SHALL SUPERVISE ALL PLANT LAYOUTS.
5. BOULDER PLACEMENT AND MOUNDING SHALL ALSE BE SUPERVISED BY LANDSCAPE ARCHITECT.
6. AN IRRICATION SYSTEM SHALL BE REQUIRED AND INSTALLED AS PART OF THE CONTRACT. INSTALL SLEEVES.
7. ONE YEAR GUARANTEE REQUIRED FOR ALL PLANTS, WITH REPLACEMENTS GUARANTEED OF EQUAL, IF NEEDED.
8. 3" SHREDDED BARK MULCH AFTER COMPACTION FOR ALL NEW PLANTING UNLESS PEBBLE BEDS ARE INDICATED.
9. LANDSCAPE BOULDERS ARE ON SITE, INSTALLATION SHALL BE SUPERVISED BY LANDSCAPE ARCHITECT.

PERENNIALS

THESE ARE PART OF THE CONTRACT, TO BE LOCATED ON SITE BY LANDSCAPE ARCHITECT

100	DAYLILY "SUE ROTHBAUER" (DEEP PINK MIDSEASON)	1GAL
100	DAYLILY "SPELL-BINDER" (GOLD LATE SEASON)	1GAL
100	VERONICA "ALPINA ALBA" (WHITE JUNE TO AUG.)	1GAL
100	ASTILBE "MONTGOMERY" (DEEP PINK)	1GAL
100	SEDUM "BERTRAM ANDERSON"	1GAL

PLANT LIST

KEY	QUAN	PLANT NAME	SIZE
1	27	COLUMNAR NORWAY SPRUCE - PICEA ABIES CUPRESSINA	10-12'
2	16	CONCOLOR FIR - ABIES CONCOLOR CANDICANS	10-12'
3	7	PRUNUS HILLERI SPIRE - COLUMNAR CHERRY	2-2½ CAL
4	6	JAPANESE STEWARTIA - STEWARTIA PSEUDOCAMELLIA	3" CAL
5	7	PYRAMIDAL EUROPEAN HORNBEAM - CARPINUS BETULUS FASTIGIATA	3½" CAL
6	6	ARISTOCRAT PEAR - PYRUS CALLERYANA 'ARISTOCRAT'	3" CAL
7	38	EMERALD GREEN ARBORVITAE - THUJA OCCIDENTALIS "EMERALD GREEN"	8'-10' FULL
8	70	BUCKTHORN - RHAMNUS FRANGULA " FINE LINE"	6 GAL
9	6	PURPLE LEAF PLUM - PRUNUS CERASIFERA "KRAUTER'S VESUVIUS"	2-2½" CAL
10	18	MT. FIRE ANDROMEDA - PIERIS JAPONICA " MT. FIRE"	3 GAL
11	43	WHITE FORSYTHIA - ABELIOPHYLLUM DISTICHUM	3 GAL
12	95	VARIEGATED ANDROMEDA - PIERIS JAPONICA FLAMING SILVER ANDROMEDA	3 GAL
13	178	HAKONE GRASS - HAKONECHLOA MACRO "AUREOLA"	1 GAL
14	31	WINE & ROSES WEIGELA - WEIGELA " WINE AND ROSES"	3 GAL
15	43	ANTHONY WATERER SPIREA - SPIREA "ANTHONY WATERER"	3 GAL
16	9	VARIEGATED RED TWIG DOGWOOD - CORNUS ALBA ELEGANTISIMA	4-5' CLUMP
17	18	ENDLESS SUMMER HYDRANGEA - HYDRANGEA MACROPHYLLA	3 GAL
18	45	NIKKO BLUE HYDRANGEA - HYDRANGEA "NIKKO BLUE"	3 GAL
19	17	NORTHERN BAYBERRY - MYRICA PENNSYLVANICA	6 GAL
20	57	PROCUMBANS NANA JUNIPER - JUNIPERUS CHINENSIS PROCUMB "NANA"	2 GAL
21	44	WHITE GLOSSY ABELIA - ABELIA GRANDIFLORA	6 GAL
22	1	ORANGEOLA JAP. MAPLE - ACER PALMATUM DISSECTUM "ORANGEOLA"	4'-5' SPEC
23	5	MONTGOMERY SPRUCE - PICEA PUNGENS "R.H. MONTGOMERY"	4' WIDE
24	1	WEEPING HEMLOCK - TSUGA CANADENSIS PENDULA	5'-6' SPEC
25	3	AVONDALE REDBUD - CERSIS CHINENSIS " AVONDALE" CLUMP	2½" CAL
26	185	UPRIGHT CHERRY LAUREL - PRUNUS LAUROCERASUS SCHIPKAENSIS	3 GAL
27	172	ACAENA - ACAENA MICROPHYLLA	1 GAL
28	95	KNOCKOUT ROSE - ROSA DOUBLE RED KNOCKOUT	3 GAL
29	178	RUSSIAN CYPRESS - MICROBIOTA DECUSSATA	3 GAL
30	135	BAR HARBOR JUNIPER - JUNIPERUS " BAR HARBOR"	2 GAL
31	722	VARIEGATED MUSCARI - LIROPE MUSCARI VARIEGATA	1 GAL
32	10	CRYPTOMERIA - YOSHINO CRYPTOMERIA JAPONICA	8' HT
33	128	HAKONE GRASS - HAKONECHLOA MACRO "NICOLAS"	1 GAL

10. FOR CONCRETE WALL STAIN, FIRST APPLY "VERTICAL CONCRETE STAIN" BY SHERWIN WILLIAMS (OR EQUAL) PER MANUF. GUIDELINE ON CLEAN CONCRETE SURFACE. WHEN DRY, APPLY VALSPAR EXTERIOR PAINT #2011-7 "JEKYLL CLUB CHEROKEE RUST" PER MANUF. SPEC. SUBMIT SAMPLE ON WALL, FOR APPROVAL BY LANDSCAPE ARCH. PAINT EXPOSED SIDES AND TOP OF PLANTER

(NOTES CON'T)

#11 CONCRETE CURB TO BE 8" WIDE Y 10" HT

A EXPOSED SAME TEXTURE FINISH AS ADJACENT PLANTER WALL. PAINT TO MATCH.

#12 PEBBLE BEDS TO BE 1"-3" MIXED LAVA ROCK PEBBLES ON FILTER FABRIC. 3" DEPTH

#13 DRIP STRIP STONES; 1"-2" MIXED BEACH PEBBLES ON FILTER FABRIC 3" DEPTH. NOTES #10-13

Pereira Engineering, LLC
CIVIL & ENVIRONMENTAL
One Enterprise Drive, Suite 312
Shelton, CT 06484
Phone: (203) 944-9944
Fax: (203) 944-9945
homepage: www.pereiraeng.com
email: mail@pereiraeng.com

NO.	BY	DATE	REMARKS
1	DGL	5/18/12	MOUNDING INFO AND NOTES #11-#13
2	DGL	7/10/12	CHANGE NOTES #11, #12, MODIFY SOME PLANT QUANTITIES, SIZES

DES DGL
DWN DGL
CKD DGL

PREPARED FOR
DIGITAL REALTY TRUST
FOR PROPERTY LOCATED AT
60-80 MERRITT BOULEVARD
TRUMBULL, CONNECTICUT

PROPOSED SITE IMPROVEMENT PLANS
LANDSCAPE PLAN
SITESCAPES, P.C. LANDSCAPE ARCHITECT, A.S.L.A. CT LIC #346
463 GULF ST. MILFORD, CT. TEL 203-878-1981 FAX 203-878-0473
SCALE: 1"=30'

DATE FEB 29, 2012
L SHEET 1 OF 1
CAD REF. NO. 0821L01

Bloomenergy

Exhibit 16

Justin Adams

From: Alex Rauso <arauso@trumbull-ct.gov>
Sent: Thursday, March 16, 2017 3:07 PM
To: Justin Adams
Cc: Roberto Librandi; Megan Murphy; Amanda Ahern
Subject: RE: Minimum Clearance 80 Trumbull

Hi Justin,

Per our discussion, it appears the 22.6 foot access to the rear will suffice for access. We will review the proposed fuel cell project for code compliance once you submit plans for permit with all the necessary departments.

Thanks,
Alex

Alex J. Rauso Jr.
Sr. Deputy Fire Marshal
5866 Main Street
Trumbull, CT 06611
P 203-452-5080
F 203-452-5093
arauso@trumbull-ct.gov

From: Justin Adams [mailto:Justin.Adams@bloomenergy.com]
Sent: Thursday, March 16, 2017 1:51 PM
To: Alex Rauso
Subject: RE: Minimum Clearance 80 Trumbull

Here is another plan with the full site. Not sure if this helps your review.

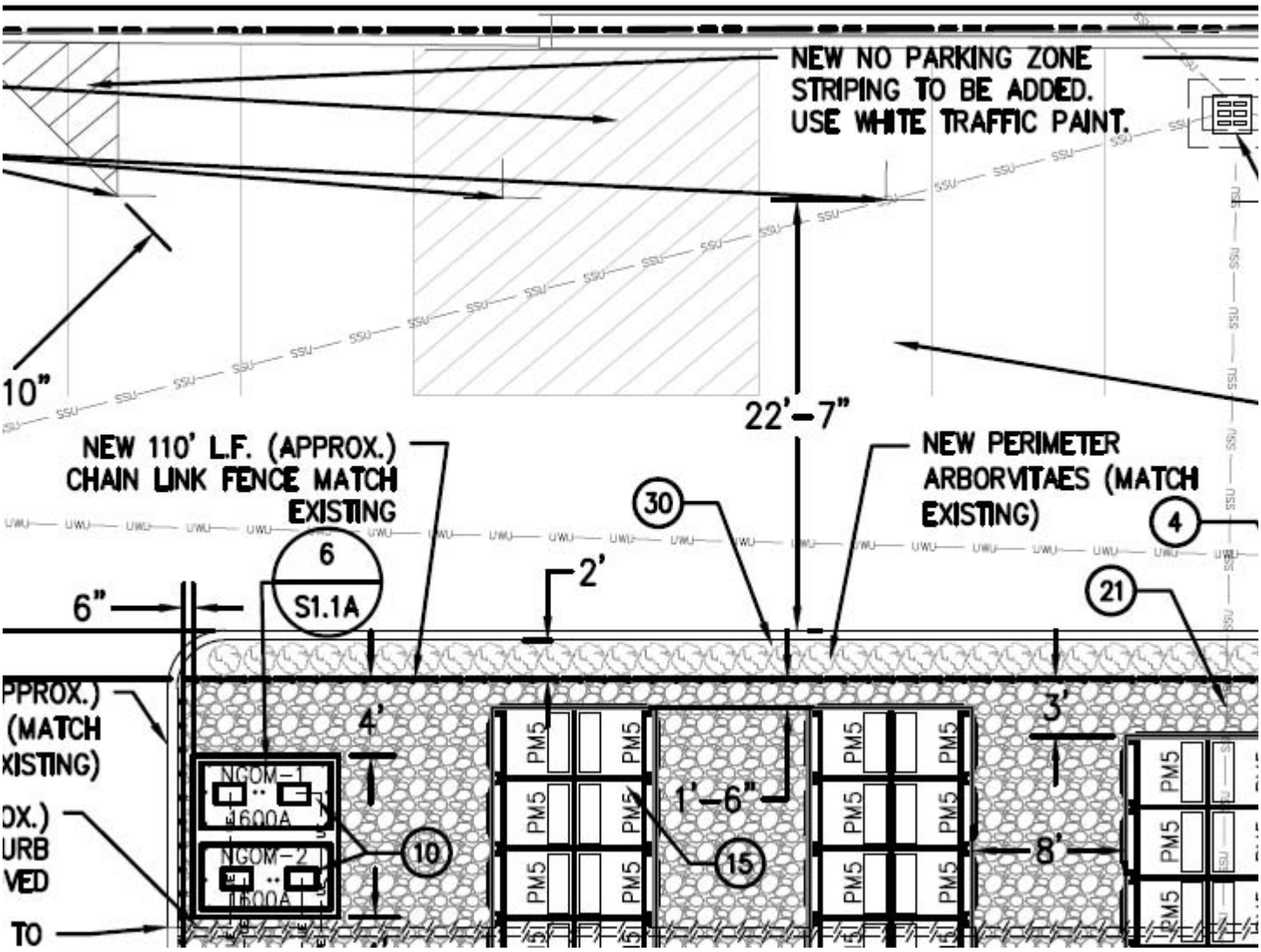
Justin Adams
Lead Permitting Specialist

Bloomenergy
Connecticut
860.839.8373
justin.adams@bloomenergy.com

From: Justin Adams
Sent: Thursday, March 16, 2017 8:57 AM
To: 'arauso@trumbull-ct.gov' <arauso@trumbull-ct.gov>
Subject: Minimum Clearance 80 Trumbull

Hello,

Attached are the draft site plans. The clearance we are showing is 22’7”. This would maintain the some parallel parking spaces (see below).



Please let me know your thoughts.

Best,

Justin Adams
Lead Permitting Specialist

Bloomenergy
Connecticut
860.839.8373
justin.adams@bloomenergy.com

Bloomenergy

Exhibit 17

Energy Server® Customer Manual

This manual applies to all Energy Server 5 (ES5) models with corresponding Uninterruptible Power Module (UPM).

FOR ANY EMERGENCY OR SHUTDOWN NOTIFICATION, PLEASE CONTACT

THE REMOTE MONITORING CONTROL CENTER

(408) 543-1678 / 9

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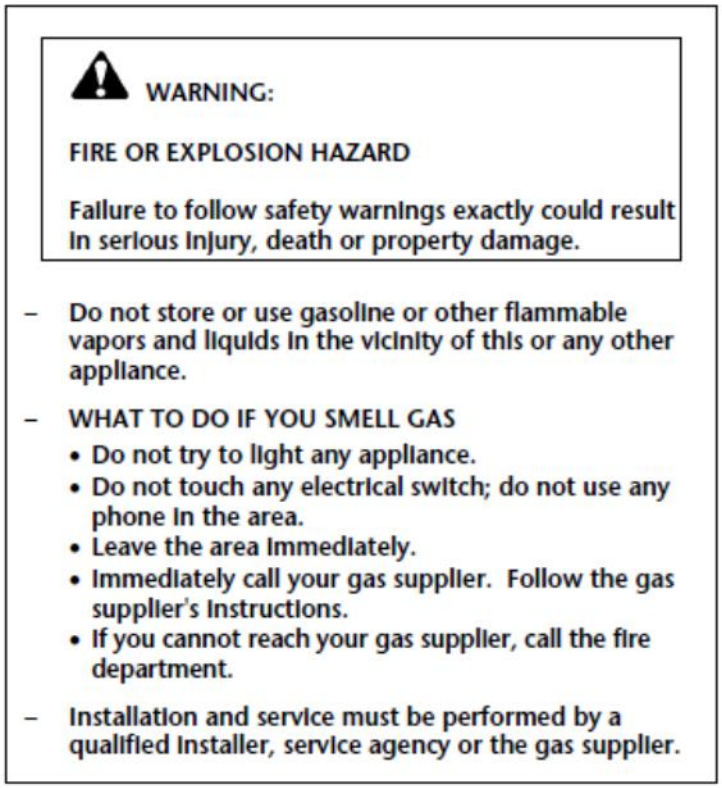
(408) 543-1678 / 9

General Safety for Fuel Cell Systems

1 Facility Safety



WARNING:

FIRE OR EXPLOSION HAZARD

Failure to follow safety warnings exactly could result in serious injury, death or property damage.

- **Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.**
- **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.**
- **Installation and service must be performed by a qualified installer, service agency or the gas supplier.**

For safe maintenance of the system, the following safety rules must be observed:

1. You must notify Bloom if you are planning any work at the site that affects **water**, **power**, **internet,** or **gas** to the Energy Server. These elements affect the performance of the fuel cell and lack of notification may cause irreversible damage to the modules.
2. Only Bloom Energy-approved Field Service providers are permitted access to the inside of the system enclosure.
3. Keep the equipment free of surrounding debris. No boxes, crates, vehicles, etc. should be present within 7 feet of the Energy Server in any direction.
4. Field Service providers will periodically clean the equipment; if you wish to clean your system, do not spray with a pressurized hose.
5. Check local fire marshal requirements for code requiring an ABC-type fire extinguisher, well-marked, within sight of the system.
6. Obey all applicable local, state, and national codes and regulations.

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7. The area around the Energy Server must be kept clear and free of combustible materials, gasoline, and other flammable vapors and liquids.
8. Do not block or obstruct air openings on the equipment or the surrounding 7 feet around the Energy Server that provides clearances to secure and discharge required air. This equipment requires air flow in order to operate.
9. Do not use this equipment if any part has been under water. Flood-damaged equipment is potentially dangerous. Attempts to use it can result in fire or explosion. A qualified service agency should be contacted to inspect the site and to replace all gas controls, control system parts, and electrical parts that have been wet.

For any non-emergency inquiries, please contact us:

CustomerCare@bloomenergy.com

Please contact Bloom Energy's **Remote Monitoring Control Center (RMCC) at (408) 543-1678 / 9** no less than 24 hours prior to any work which will be performed onsite which may affect your Energy Server, including but not limited to power supply outages or surges, increase to your critical load, and/or interruption of gas supply, water supply, and/or internet connection. Bloom operators can assess the situation and take the necessary actions to mitigate impact on the fuel cells during work and enable them come back online smoothly and efficiently when work is completed.

Failure to notify RMCC may cause an invalidation of warranty on the Energy Servers and interruption of service to your site.

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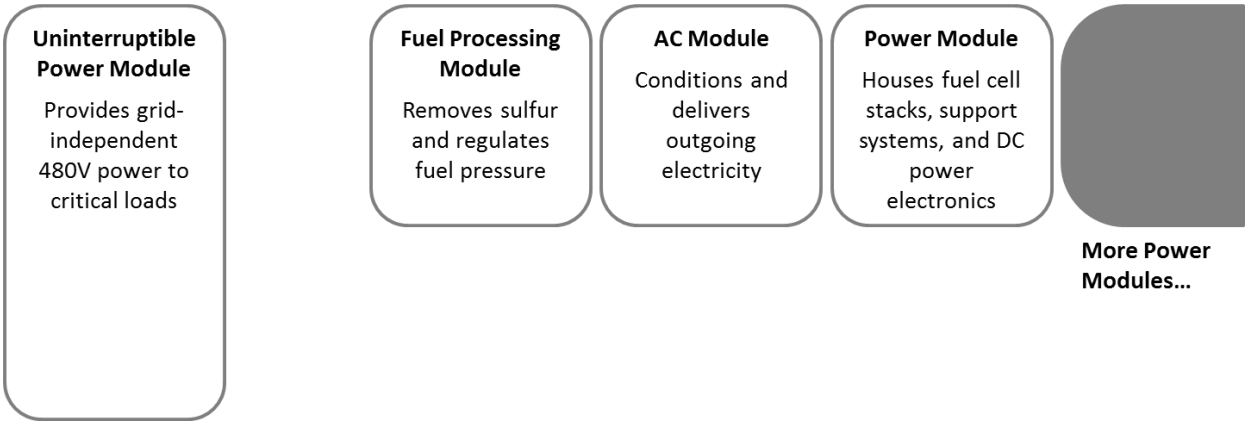
2 System Modules and Functions

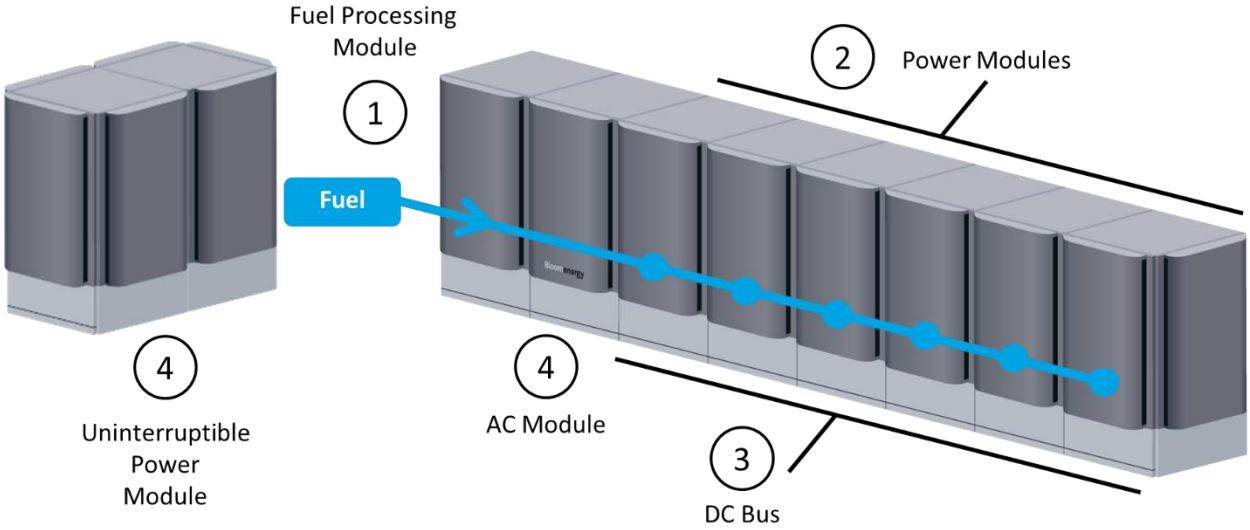
Each Energy Server has four types of modules: one Fuel Processing Module, one AC Module, several identical Power Modules, and one Uninterruptible Power Module (UPM).

Figure 1 – System Modules



The function of each module can be understood by tracing the fuel through its conversion to electricity (see below).

Figure 2 – Fuel Cell Inputs and Outputs



1. Fuel from the facility enters the Energy Server at the Fuel Processing Module. This module regulates fuel pressure and removes trace components, such as sulfur, which can harm the fuel cells.

2. Once processed, the fuel flows to each of the Power Modules. Each Power Module contains stacks of fuel cells, the necessary support components for handling air, heat, water, exhaust, monitoring, and safety, and DC power electronics. Processed fuel enters the fuel cell, reacts with O_2 (from ambient air), and is electrochemically converted into DC electricity.
3. The ensuing DC power is collected by the DC bus and fed to both the UPM and AC Module.
4. The grid-independent DC power is first fed to the UPM, which provides an independent source of power to the primary side of a customer-provided transfer switch. Separately, the AC Module converts the grid-parallel DC power to AC power and exports this power to the facility.

This modular architecture allows for maximum availability and power production. If any part of a Power Module needs to be replaced or repaired, the remaining Power Modules can remain operational during service.

Additionally, Energy Server 5 is capable of being installed in a number of different configurations: linear (shown in Figures 1 and 2), compact, and corner.

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Table 2 – System Design Specifications

Inputs	
Fuels	Natural gas, directed biogas
Input fuel pressure	10-18 psig (15 psig nominal)
Water (connection required at all times)	0-3000ml/min (0.79 gpm)
Outputs	
Electrical connection	480 V, 3-phase, 60 Hz
Efficiency	
Cumulative electrical efficiency (LHV net AC)*	53-65%
Heat rate (HHV)	5,811-7,127 Btu/kWh
Emissions	
NOx	< 0.01 lbs/MWh
SOx	Negligible
CO	< 0.10 lbs/MWh
VOCs	< 0.02 lbs/MWh
CO2 @ specified efficiency	679-833 lbs/MWh on natural gas; carbon neutral on directed biogas
Physical Attributes and Environment	
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	

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

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3 External Modules and Ancillary Equipment

3.1 Water Distribution Module

The Water Distribution Module (WDM) is responsible for purifying water from the utility to a level required for optimal function of the fuel cells. The module takes water from the facility, purifies it using a pair of de-ionization beds, and delivers the purified water to the Energy Server. The WDM is installed on the ancillary pad with the PDS and Telemetry cabinet.

3.2 Power Distribution System / Electrical Distribution Module

The Power Distribution System (PDS) or Electrical Distribution Module (EDM) houses the electrical power connections from the facility, surge protection device, and any required power meters. The PDS is installed on an ancillary pad along with the WDM.

3.3 Telemetry Cabinet

The Telemetry Cabinet houses the communications components that allow Bloom Energy's Remote Monitoring Control Center (RMCC) to constantly monitor the Energy Servers. All reported data from the systems is continuously transmitted to live operators and recorded in our database for data analysis and predictive action. The RMCC operators will communicate any alarms to Field Service personnel if onsite action is required.

3.4 Electrical Combiner Module

The Electrical Combiner Module (ECM) houses the electrical power connections from the UPM, surge protection device, and any required power meters. The ECM is installed on an ancillary pad.

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4 Safety Features

Every Energy Server has redundant safety features and in-system checks to ensure personnel safety. While the actual fuel cells operate at high temperatures, these components do not move and are contained within many layers of insulation. It is safe to stand adjacent to the equipment as all moving parts and hot surfaces are protected by the outer panels. However, do not attempt to open the doors of the Energy Server or climb on top of it. Parts of the Energy Server, including the exhaust vents at the peak of the roof, are hot during operation. Also, as with any device using flammable fuel, never smoke or create sparks near the equipment.

Bloom Energy Servers are controlled remotely and have internal sensors that continuously monitor system operation. If safety circuits detect a condition outside normal operating parameters, the fuel supply is stopped and individual system components are automatically shut down. A Bloom Energy RMCC operator can also remotely initiate any emergency sequence. An Emergency Stop alarm initiates an automatic shutdown sequence that puts the system into "safe mode" and causes it to stop exporting power. If a full shutdown is warranted, the system can return to ambient temperature within 18 hours. If you have questions about any of these safety features, please contact Bloom Energy at CustomerCare@bloomenergy.com.

- **Manual controls:**
  - A clearly marked Emergency Power Off button located at site to stop the export of power
  - Manual gas valve located within 50 feet of Energy Server location to control gas inflow
- **Fire hazard mitigation:**
  - Energy Server is plumbed directly to utility-provided natural gas
  - If input gas pressure is compromised, an internal pressure switch triggers an emergency system shutdown and fuel input is isolated through double solenoid isolation valves
  - Equipment contains virtually no stored fuel (internal capacity is < 5 scf)
- **Electrical hazard and mitigation:**
  - System operates at 480 V_{AC}
  - System inverter prevents backfeed to the grid during a power outage
- **Mechanical hazards and mitigation:**
  - All moving parts are located behind secured doors
- **Hazardous material mitigation:**
  - Desulfurizer beds (to remove fuel impurities) are fully enclosed and are only serviced by licensed vendors

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5 Emergency Procedures

Table 3 – Emergency Actions

Emergency Procedures		
Scenario	**You**	**Bloom Energy**
System Fire	1. Ensure personal safety 2. Call 911 and Bloom Energy RMCC 3. Hit Emergency Power Off button 4. Shut gas isolation valve 5. Open electrical disconnects	1. Remote shutdown 2. Dispatch Field Service team (if safe and necessary) 3. Notify your site contact
Fire in System Vicinity	1. Ensure personal safety 2. Call Bloom Energy RMCC	
Natural Gas Leak		
Major Seismic Event	1. Ensure personal safety 2. Call Bloom Energy RMCC 3. Cut off fuel and electricity (if absolutely necessary)	

If you have to shut down your 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 the site diagram that you created with your Bloom Energy account manager. The three shutoffs are: (1) **EPO button**, (2) the **electrical disconnect switches**, and (3) the **manual natural gas shutoff valve**.

1. The **Emergency Power Off (EPO) button** (see below) opens each Energy Server's output contactor to stop sending power to the facility. All natural gas flow is also stopped, as cutting power closes two fail-closed natural gas valves inside the system. The EPO button is located on the side of the Telemetry Cabinet. It has a protective plastic cover on it, as well as protective glass that must be broken with its attached hammer before pressing the button. Use this if you want to stop exporting power in the case of an emergency.

Figure 3 – Telemetry Cabinet & EPO Button

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2. The **manual natural gas valve** shuts off all natural gas at a point upstream of the Energy Server. Removing the gas source will completely shut down the Energy Server. If the valve handle is perpendicular to the pipe, the valve is shut. If the valve handle is parallel with the pipe (as shown below), the valve is open.

Figure 4 – Manual Natural Gas Valve

Note	**Some gas shutoff valves are installed without a permanent handle to prevent unauthorized operation. Use an adjustable wrench to operate a valve without a handle.**

3. The **electrical disconnect switches** manually disconnect power to everything downstream of them. The disconnect switches are typically located near the point where the wires from the Energy Server installation meet the facility's electrical framework. This might be next to the Energy Server or in the site's facility room. The location is shown on your site map. The switches are labeled "[Name of Electrical Utility] Lockable Visible Generator Disconnect Switch." Use this if you need to cut power in the line to the EDM/PDS/ECM, the EDM/PDS/ECM itself, and the electrical connection leading to the Energy Server (see section *External Modules* for further definitions). Note that opening the electrical disconnect switch places the Energy Server in a Balance of Plant (BOP) state where it does not export power but is still processing fuel. Operating the electrical disconnect should be done to electrically isolate the system, but not to shut it down completely.

Figure 5 – Electrical Disconnect Switch

Each site is designed for International Code Council (ICC) Seismic Site Class D. Seismic Zone 4 may also be mentioned for older building codes. Seismic Site Class D is equivalent to Seismic Zone 4 and 1 G lateral acceleration for our design calculations.

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6 About Bloom Energy

Bloom Energy has developed a revolutionary onsite power generation system called an "Energy Server®" based on a proprietary fuel cell technology that provides a more reliable, cleaner and cost effective alternative to the traditional electric power grid and does so 24 hours a day, 7 days a week and 365 days a year. Bloom Energy Servers generate electricity through a highly efficient electrochemical process that combines fuel (natural gas or biogas) and ambient air to create electricity. Compared to the grid, Bloom Energy Servers deliver Better Electrons™ for multiple reasons. First, the fuel that enters the fuel cells is converted into electricity through an electrochemical reaction that does not require combustion or multiple phase changes (chemical, thermal, mechanical etc.). Secondly, this highly efficient process results in dramatically lower emissions. Bloom customers can reduce CO_2 emissions by 50%-100% compared to the U.S. grid (depending on fuel choice) and virtually eliminate SO_x, NO_x and other criteria pollutants. In addition, the energy is produced right next to the facility's load instead of being transmitted over power lines, thus avoiding line losses. The end result is that Bloom customers benefit from reliable power that is onsite, under their control, and cleaner than power provided by the traditional electric grid.

7 Fuel Cell Technology

Bloom Energy's core technology is a solid oxide fuel cell (SOFC). Unlike conventional energy generation technologies, fuel cells do not combust fuel. Fuel cells use an electrochemical process (similar to a battery) to convert fuel directly into electricity, thus emitting far fewer smog-forming air pollutants and harmful emissions. Also, since a fuel cell has no moving parts, it can operate quietly, reliably and efficiently.

Layers of materials with distinct electrochemical properties are sandwiched together to form the fundamental building block of a fuel cell. At the heart of each cell lies an electrolyte that can only be crossed by charged molecules. On either side of the electrolyte, electrodes (the anode and the cathode) are connected to a load to create an electrical circuit. Fuel flows across the anode and air flows across the cathode, thereby driving a continuous reaction. The fuel cells are stacked into columns to form Power Modules which are grouped together to form Bloom Energy Servers.

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8 Bloomconnect® Portal

Bloomconnect is an online performance dashboard for Bloom Energy Server installations that tracks energy output and sustainability benefits. The dashboard interface is populated with data from each Energy Server 24 hours a day, 7 days a week. This data can be viewed on Bloomconnect from any web-enabled device, allowing for quick and easy access. The user-friendly web-based interface provides you with insightful and engaging graphs and animations that illustrate the benefits of deploying your Energy Servers. Bloomconnect helps to link the environmental benefits to the everyday operation of your facilities.

Figure 6 – Bloomconnect Web Page

Using Bloomconnect, you can:

- Plot and review your daily electrical generation
- Graphically display performance metrics across customizable timescales
- Calculate your lifetime carbon reduction
- Utilize an interactive map to view different installation locations

8.1 Environmental Benefits

Bloomconnect quantifies carbon and water savings and communicates these benefits in everyday terms and offset equivalencies (cars removed for 1 year, pounds of coal not burned, etc.).

All CO_2 reduction metrics are a comparison between the Energy Server's emissions and those of the electrical power grid of the state in which the site is located. The methodology for these calculations can be found on the U.S. EPA website (http://www.epa.gov/cleanenergy/energy-resources/calculator.html).

Water savings are calculated by comparing the average Bloom Energy Server's water intake (240 gallons at initial start-up per Energy Server) to the average water intake per MWh of an average U.S. coal plant.

8.2 Accessing Your Web Page

Access the monitoring web page at: https://portal.bloomenergy.com/

Upon site start-up, a representative from the Customer Care team will email your organization's primary contact asking for a list of preferred users. Once this list is received by Bloom, each user will receive an email with login information within two business days.

Legal Note	**Bloomconnect access is intended for your organization's users *only*. Do not distribute your user name and/or password under any circumstances to anyone. If you are interested in displaying the portal on a kiosk monitor, please contact CustomerCare@bloomenergy.com.**

For best results, please access Bloomconnect using the latest versions of Google Chrome, Mozilla Firefox, or Internet Explorer (version 9.0 or higher).

8.3 What To Do If You Lose Your Password

If you forget your account password, select "Forgot Password?" on the login screen. At the next screen, enter your username or email address (must be same as one Bloom used to create the login) and click "Reset Password." A new password will be sent to your email address within a few minutes. If you continue to have issues, please email CustomerCare@bloomenergy.com.

9 Bloom Energy Contact Information

For any non-emergency inquiries, please contact us:

CustomerCare@bloomenergy.com

Please call the Remote Monitoring Control Center if:

1. You are aware of an event that will occur at your site, such as a planned power/water/internet/gas outage, fire drill, construction, etc.
2. You have had any emergency at your site, such as an earthquake, fire or fuel line rupture.
3. You plan on adding load to your critical operations powered by the UPM.

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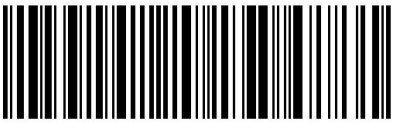

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State Representative, 134th
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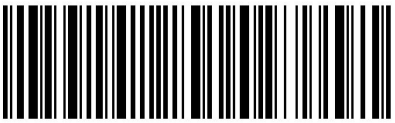

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State Senator, 3rd
Marylin Moore
Legislative Office Building, Room 2000
HARTFORD CT 06106

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State Senator, 23rd
Ed Gomes
Legislative Office Building, Room 3800
HARTFORD CT 06106

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Kevin Kelly
Legislative Office Building, Room 3400
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Laura Hoydick
300 Capital Avenue
HARTFORD CT 06106-1553

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Commissioner, DEEP
Rob Klee
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Katie Dykes
10 Franklin Square
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Commissioner, DPH
Raul Rino
410 Capital Avenue, PO Box 340308
HARTFORD CT 06134-0438

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Chair, CEQ
Susan Merrow
79 Elm Street
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Commissioner, Dept of Ag
Steven Revicky
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Secretary of OPM
Benjamin Barnes
450 Capital Avenue
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Commissioner, DOT
James Redeker
2800 Berlin Turnpike
NEWINGTON CT 06111-4113

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Commissioner, DECD
Catherine Smith
501 Hudson Street
HARTFORD CT 06106

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Acting Deputy Commissioner, DEMHS
William Hacket
25 Sigourney Street, 6th Floor
HARTFORD CT 06106-5003

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Commissioner, Dept of Consumer Protection
Jonathan Harris
165 Capitol Ave # 3
HARTFORD CT 06106-1630

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Commissioner, Dept of Administrative Services
Melody Currey
165 Capitol Ave # 3
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Commissioner, Dept of Labor
Scott Jackson
200 Folly Brook Boulevard
WETHERSFIELD CT 06109-1153