

February 23, 2021

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 150-Kilowatt Fuel Cell Customer-Side Distributed Resource at The Home Depot, 114 Federal Road, Danbury, Connecticut**

Dear Attorney Bachman:

Bloom Energy respectfully requests the approval of a minor modification of the facility approved by declaratory ruling under Petition 1419 on September 10, 2020.

Bloom Energy still proposes to install a 150-kW customer-side distributed resource consisting of one (1) Bloom solid oxide fuel cell Energy Server and associated equipment (the “Facility”) at The Home Depot located at 114 Federal Road, Danbury, CT. However, the location of the system will need to shift 10 feet to the north due to a 50-foot wide utility easement that conflicts with the originally approved location (Exhibit 1). Bloom applied for but was not granted permission from the easement owner to locate its Facility within the easement limits.

As shown in the amended site plans (Exhibit 2), the new proposed location would be in a previously paved parking area at the rear of the store, which currently contains two (2) parallel parking spaces. The orientation of the equipment will also shift from a back-to-back format to a linear format. The accessory equipment and location of the interconnection will remain as previously proposed in the original petition application. The change in orientation of the fuel cell prevents any impact to the drive aisle and limits impacts to the parking area only.

The shift in the installation location and orientation would not result in any substantial adverse environmental effect in the immediate vicinity of the site or in the State of Connecticut. Additional information on the steps to mitigate the impacts to parking and the slight difference in the sound levels are as follows.

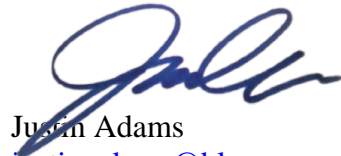
Parking

As shown on G0.2 in the attached revised plans, Bloom is proposing to convert 22 standard parking spaces in the front of the store to compact parking spaces. This will result in no net loss of parking for the store and in would be in compliance with the City of Danbury’s required parking for the site.

### Sound Levels

The proposed Facility will still comply with State of Connecticut regulations for the Control of Noise in the new location. The host parcel is classified as a Class B emitter (52. Retail Trade - Building Materials). The nearest receptor is a parking area formerly associated with the property to the south of the Facility, which is classified as a Class B receptor (57. Retail Trade - Furniture, Home Furnishings and Equipment). As such, a limit of 62 dBA (day or night) applies. The results of the sound model predicting noise levels at that property boundary, located at a distance of approximately 47 feet, are provided as Exhibit 3. The proposed Facility would be defined as "Scenario 2" in the model. Scenario 2 models noise for a Bloom Energy Server installed with no structures taller than the proposed source of the noise to reflect sound from either side. The results of the Scenario 2 sound model at 47 feet are 47.3 dBA.

Sincerely,  
Bloom Energy



Justin Adams  
[justin.adams@bloomenergy.com](mailto:justin.adams@bloomenergy.com)  
(860) 839-8373

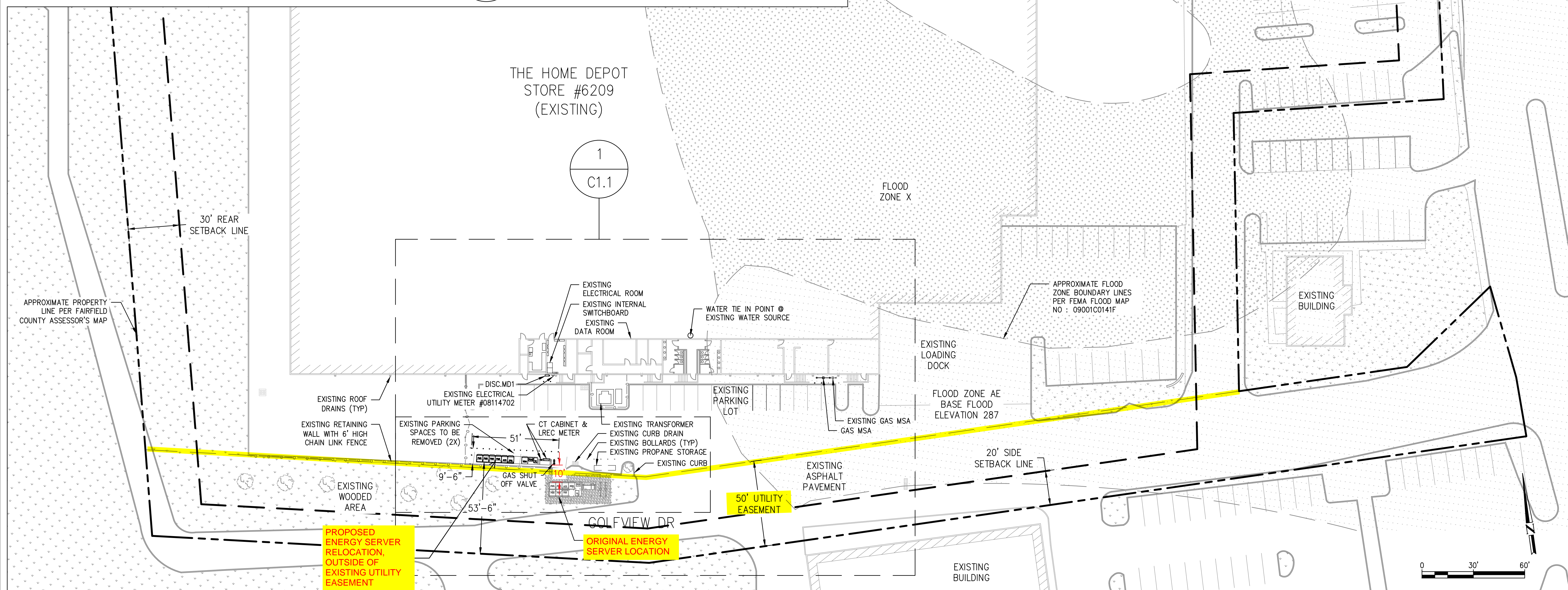
# Exhibit 1



OVERALL SITE PLAN

SCALE: = NTS

1  
G1.1



SITE REFERENCE NOTE:  
EXISTING SITE CONDITIONS DRAWN BASED ON SITE PLAN SP-2  
BY ROTONDO ENGINEERING LLC DATED ON 04/01/2004.

INSTALLATION RELOCATION PLAN

SCALE: 1" = 30'

2  
G1.1

**Bloomenergy**

4353 N. FIRST STREET  
SAN JOSE, CA 95134  
PROPRIETARY AND CONFIDENTIAL

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**Bloomenergy**

4353 N. FIRST STREET  
SAN JOSE, CA 95134  
t: (408) 543-1500

ENGINEER OF RECORD  
JOSEPH A. TEMOWO, P.E.  
LICENSE #34275

CUSTOMER SITE  
THE HOME DEPOT, INC.  
STORE #6209  
114 FEDERAL ROAD  
DANBURY, CT 06811



REVISION HISTORY		
REV	REVISION ISSUE	DATE

DESIGNED BY: POOJA SREERAJ  
DRAWN BY: BASAVARAJ BENAKANAHALLI  
REVIEWED BY: CHRIS BARTUNEK  
APPROVED BY: JOSEPH A. TEMOWO

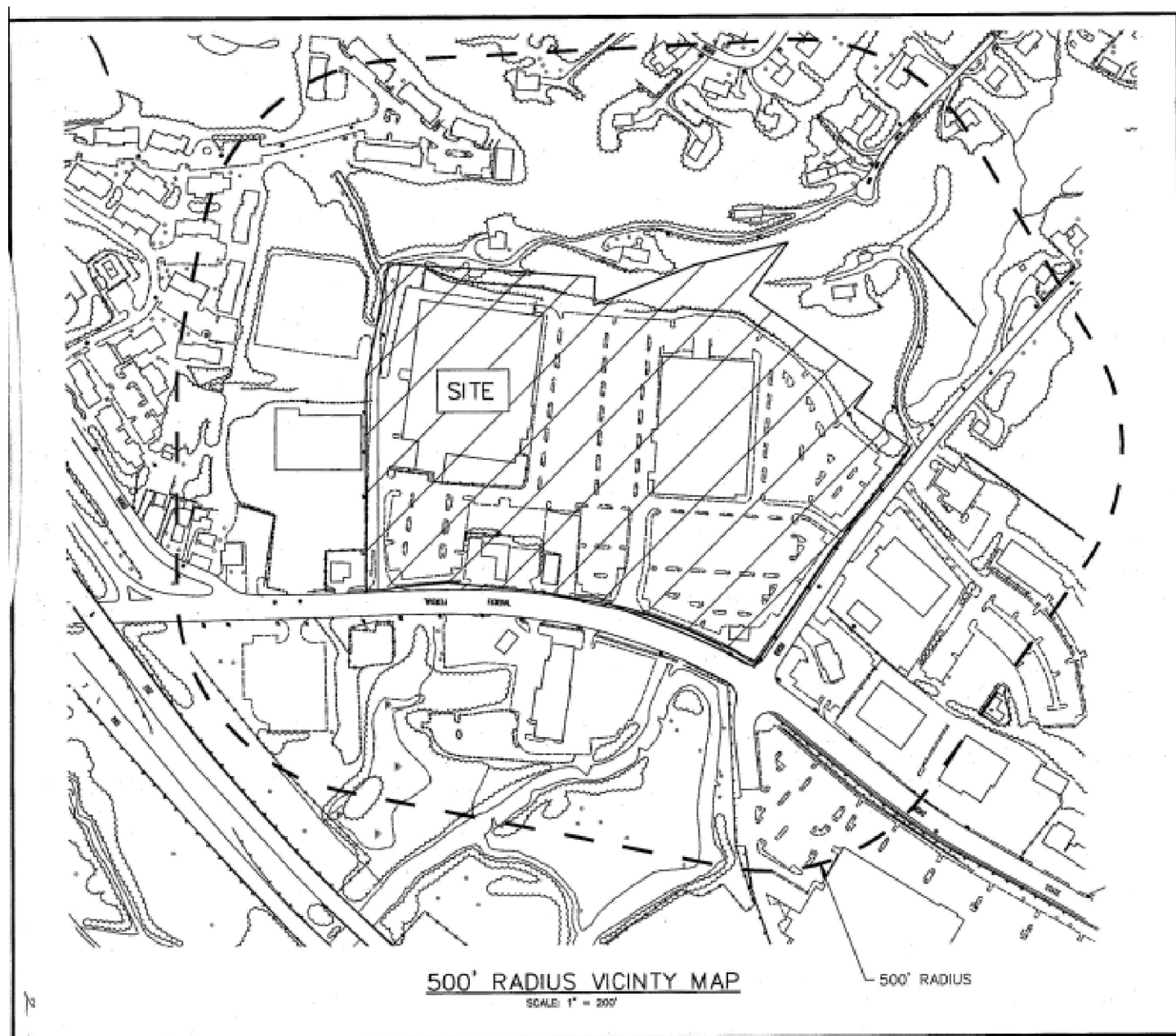
SHEET TITLE  
**INSTALLATION RELOCATION PLAN**

DRAWING NUMBER  
G1.1

BLOOM DOCUMENT  
DOC-1012979

THIS DRAWING IS 24" X 36" AT FULL SIZE  
SITE ID: HDP207.0 SHEET 02 OF 03

# Exhibit 2



STORE NUMBER: 6209  
114 FEDERAL ROAD  
DANBURY, CT 06811



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.

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**Bloomenergy**

**ENGINEER'S STATEMENT**

I AM THE RESPONSIBLE ENGINEER OF RECORD ON THIS PROJECT AND WILL BE RESPONSIBLE FOR REVIEWING AND COORDINATING ALL SUBMITTAL DOCUMENTS PREPARED BY OTHERS, INCLUDING DEFERRED SUBMITTALS, FOR COMPATIBILITY WITH THE OVERALL DESIGN OF THE PROJECT.

JOSEPH A. TEMOWO  
BLOOM ENERGY  
P.E. #34275

DATE

SITE INFORMATION	PERMITTING INFORMATION	CODES	PROJECT DESCRIPTION	CONTRACTOR NOTES																									
<p><b>PARCEL INFORMATION</b> PROPERTY OWNER THE HOME DEPOT, INC. COUNTY FAIRFIELD COUNTY TAX MAP # Mblu L08 / / 15 / 2 /</p> <p><b>PROPERTY DESCRIPTION</b> PROPERTY TYPE RETAIL PROPERTY AREA 391,604 SF BUILDING AREA* 111,650 SF GARDEN CENTER AREA* 26,550 SF DISTURBED AREA ±600 SF</p> <p><b>PARKING INFORMATION</b> EXISTING PARKING** 1134 REQUIRED PARKING** 1134 REMOVED PARKING 02 ADDED PARKING CONVERT 22 STANDARD PARKING SPACES INTO 24 COMPACT PARKING SPACES*** FINAL PARKING COUNT 1134</p> <p>*BASED ON SITE PLAN "SP-3" BY ROTONDO ENGINEERING LLC DATED 04/01/2004 **BASED ON SITE PLAN "SP-1" ROTONDO ENGINEERING LLC DATED 04/01/2004 ***SEE PARKING CALCULATION ON SHEET G1.1</p>	<p><b>MUNICIPAL AGENCY</b> PLANNING DANBURY PLANNING AND ZONING BUILDING DANBURY BUILDING DEPARTMENT FIRE DANBURY FIRE DEPARTMENT</p> <p><b>UTILITY TYPE</b> NATURAL GAS EVERSOURCE (CT) (860) 286-2000 ELECTRICAL EVERSOURCE (CT) (860) 286-2000 WATER DANBURY WATER DEPARTMENT (203) 797-4637</p>	<p>2018 CONNECTICUT STATE BUILDING CODE 2015 INTERNATIONAL BUILDING CODE 2015 INTERNATIONAL EXISTING BUILDING CODE 2015 INTERNATIONAL PLUMBING CODE 2015 INTERNATIONAL MECHANICAL CODE 2017 NFPA 70, NATIONAL ELECTRICAL CODE 2009 ICC A117.1 ACCESSIBLE AND USAGE BUILDING &amp; FACILITIES 2015 INTERNATIONAL FIRE CODE</p> <p><b>PROJECT TEAM CONTACTS</b></p> <table border="1"> <thead> <tr> <th>FIRM</th> <th>ADDRESS</th> <th>CONTACT INFO</th> </tr> </thead> <tbody> <tr> <td><b>MANUFACTURER</b> BLOOM ENERGY</td> <td>4353 N. FIRST STREET SAN JOSE CA 95134</td> <td>(408) 543-1500</td> </tr> <tr> <td><b>CUSTOMER</b> THE HOME DEPOT, INC.</td> <td>114 FEDERAL ROAD DANBURY, CT 06811</td> <td>(203) 730-9600</td> </tr> <tr> <td><b>BLOOM ENERGY</b> JOSEPH A. TEMOWO, PE</td> <td>4353 N. FIRST STREET SAN JOSE, CA 95134</td> <td>(408) 543-1006</td> </tr> </tbody> </table>	FIRM	ADDRESS	CONTACT INFO	<b>MANUFACTURER</b> BLOOM ENERGY	4353 N. FIRST STREET SAN JOSE CA 95134	(408) 543-1500	<b>CUSTOMER</b> THE HOME DEPOT, INC.	114 FEDERAL ROAD DANBURY, CT 06811	(203) 730-9600	<b>BLOOM ENERGY</b> JOSEPH A. TEMOWO, PE	4353 N. FIRST STREET SAN JOSE, CA 95134	(408) 543-1006	<p>THIS PROJECT CONSISTS OF THE INSTALLATION OF ONE (1) BLOOM ENERGY ESS. OUTDOOR. NATURAL GAS. CLEAN ENERGY SERVER. THE CLEAN ENERGY SERVER IS SUPPORTED ON A CONCRETE PAD. THE WORK INCLUDES ALL ITEMS LISTED IN THE SCOPE OF WORK.</p> <p><b>SCOPE OF WORK</b></p> <p>THE SCOPE OF THIS PROJECT WILL CONSIST OF THE FOLLOWING:</p> <ol style="list-style-type: none"> <li><b>CIVIL WORK</b> <ul style="list-style-type: none"> <li>EXISTING ASPHALT SHALL BE CUT FOR NEW EQUIPMENT PAD FOR BLOOM ENERGY SERVER.</li> <li>EXISTING SUBGRADE AT ASPHALT CUT WILL BE PREPARED FOR THE NEW EQUIPMENT WEIGHT.</li> <li>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 ASPHALT COVER TO BE PROVIDED.</li> <li>NEW ENERGY SERVER AND ANCILLARY CONCRETE PAD TO BE PLACED AT PREPARED SURFACE AT ASPHALT CUT.</li> <li>NEW BOLLARDS TO BE INSTALLED TO PROTECT BLOOM ENERGY SERVER.</li> <li>TWO (2) PARKING SPACES TO BE REMOVED FOR ENERGY SERVER INSTALLATION. TO REPLACE THESE PARKING SPACES, TWENTY-TWO (22) EXISTING, STANDARD PARKING SPACES IN THE NORTHWEST CORNER OF THE PARKING LOT WILL BE RESTRIPTED AS TWENTY-FOUR (24) COMPACT PARKING SPACES.</li> </ul> </li> <li><b>ELECTRICAL WORK</b> <ul style="list-style-type: none"> <li>FURNISH AND INSTALL ELECTRICAL FEEDERS BETWEEN PDS AND EXISTING MAIN SERVICE SWITCHBOARD.</li> <li>FURNISH AND INSTALL ELECTRICAL FEEDERS BETWEEN PDS AND ENERGY SERVER.</li> <li>INSTALL DISC-MD1, CT &amp; PT CABINETS, LREC ION METER, PDS, ENERGY SERVER &amp; ACCESSORIES.</li> </ul> </li> <li><b>PLUMBING WORK</b> <ul style="list-style-type: none"> <li>NEW WATER CONNECTION FROM POTABLE WATER SOURCE IN FACILITY TO BLOOM ENERGY SERVER.</li> <li>NEW NATURAL GAS CONNECTION. NEW METER AND REGULATOR REQUIRED.</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>CONTRACTOR SHALL CONTACT THE HOME DEPOT - BLOOM ENERGY CONSTRUCTION LIAISON FOR A PRE-CONSTRUCTION CONFERENCE TWO WEEKS PRIOR TO THE START OF THE WORK. THE SCOPE OF WORK AND TIMELINE SHALL BE DISCUSSED ALONG WITH ANY COORDINATION ISSUES WHICH COULD DISRUPT THE STORE'S OPERATIONS.</li> <li>CONTRACTOR SHALL EMAIL THE HOME DEPOT - BLOOM ENERGY CONSTRUCTION LIAISON A WEEKLY STATUS REPORT WITH PICTURES OF THE JOB SITE DURING THE TIME OF CONSTRUCTION.</li> <li>DURING CONSTRUCTION, IF ANY CHANGES OR MODIFICATION DIFFER FROM THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY BLOOM ENERGY AND THE HOME DEPOT REPRESENTATIVE OF THE PROPOSED MAJOR/SIGNIFICANT CHANGE TO OBTAIN APPROVAL BEFORE PROCEEDING WITH THE WORK. THE PLAN CAN BE REDLINED AND A PICTURE OF THAT PROPOSED CHANGE(S) SHALL BE SENT ELECTRONICALLY TO OBTAIN APPROVAL FROM THE HOME DEPOT TO EXPEDITE THE APPROVAL. THE MINOR/NON-SIGNIFICANT CHANGES THAT DO NOT REQUIRE APPROVAL ARE: <ul style="list-style-type: none"> <li>SHIFTING SYSTEM, BOLLARD OR SCREENING/WALL LOCATION 12" OR LESS, AND NOT IMPACTING ANY DRIVE AISLES OR ADDITIONAL PARKING SPACES</li> <li>CHANGES IN SPECIFIC RUN OF PIPING/CONDUIT, MODIFYING THE LOCATION LESS THAN 12" FROM WHAT IS SHOWN ON PLAN, BUT NOT MODIFYING THE METHOD OF RUN (IE. TRENCHING, BORING, EXPOSED, ROOFTOP, ETC.)</li> <li>MINOR GAS LINE OR UTILITY GAS METER CHANGES (LESS THAN 12" MODIFICATION) AT THE GAS PLANNER'S DIRECTION</li> <li>SIGNAGE LOCATION CHANGES AT INSPECTOR'S DIRECTION, OR BASED ON EXISTING SITE CONDITIONS</li> <li>ANY WIRING OR CABLING CHANGES BETWEEN ANY BLOOM-PROVIDED EQUIPMENT, AT THE EOR OR BLOOM SUPERINTENDENT'S DIRECTION</li> <li>ANY MODIFICATION TO SCOPE OF LOW VOLTAGE WIRING, AT EOR, BLOOM SUPERINTENDENT OR UTILITY'S DIRECTION</li> <li>ANY CHANGES THAT STILL SATISFY MINIMUM SUBGRADE PREPARATION METHODS, BASED ON ON-SITE CONDITIONS</li> </ul> </li> <li>CONTRACTOR SHALL EMAIL THE HOME DEPOT - BLOOM ENERGY CONSTRUCTION LIAISON A CONSTRUCTION CHECKLIST INDICATING PROPOSED STAGING AREA(S), CONSTRUCTION AREA(S), DRIVEWAY CROSSING LOCATION(S), AND A BEST MANAGEMENT PLAN (BMP) PRIOR TO PRE-CONSTRUCTION CONFERENCE.</li> <li>A BEST MANAGEMENT PLAN (BMP) SHALL BE FOLLOWED AT ALL TIMES. THE CONSTRUCTION CHECKLIST SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING BMPs: "DANDY" SACK OR EQUAL WITH OUTFLOW PORTS AT STORM DRAIN INLETS, "OUTPAK" CONCRETE WASHOUT AND TUBULAR FILTRATION SOCKS ON ALL OTHER DISTURBED AREA(S). BMPs MUST BE INSTALLED BEFORE WORK STARTS AND TAKEN DOWN ONLY WHEN THE SITE IS FULLY STABILIZED. FULL STABILIZATION IS DEFINED AS WHEN THE HOME DEPOT - BLOOM ENERGY CONSTRUCTION LIAISON HAS BEEN ABLE TO REVIEW PICTURES AND HAS ACCEPTED THE STABILIZATION.</li> <li>CONTRACTOR SHALL CONTACT THE HOME DEPOT STORE MAINTENANCE DIVISION 48 HOURS BEFORE CONSTRUCTION TO SET UP A PRE-CONSTRUCTION MEETING.</li> <li>THE CONTRACTOR SHALL PHOTOGRAPH THE JOB SITE AREA PRIOR TO STARTING CONSTRUCTION AND CONSTRUCTION COMPLETION. CONTRACTOR SHALL FURNISH PHOTOGRAPHS IN A PDF FILE VIA EMAIL TO THE HOME DEPOT - BLOOM ENERGY CONSTRUCTION LIAISON AND ON A CD OR FLASH DRIVE TO THE HOME DEPOT MAINTENANCE DEPARTMENT AFTER THE COMPLETION OF CONSTRUCTION.</li> <li>CONTRACTOR SHALL FURNISH A PDF COPY OF THE AUTHORITY HAVING JURISDICTION JOB CARD VIA EMAIL TO THE HOME DEPOT - BLOOM ENERGY CONSTRUCTION LIAISON AND ON A CD OR FLASH DRIVE TO THE HOME DEPOT MAINTENANCE DEPARTMENT PRIOR TO THE START OF CONSTRUCTION.</li> <li>ALL UTILITY TRENCH WORK CROSSING DRIVEWAYS SHALL BE DONE AT NIGHT BETWEEN 10PM AND 6AM. TRENCHES MUST BE COVERED ONE HOUR BEFORE STORE OPENS.</li> <li>COMPACTION OF TRENCH BACKFILL SHALL BE 95% COMPACTED. COMPACTION TEST SHALL BE COMPLETED AND EMAILED TO THE HOME DEPOT - BLOOM ENERGY CONSTRUCTION LIAISON FOR APPROVAL.</li> <li>ALL UTILITY CONNECTIONS THAT REQUIRE CONNECTION OF LIVE LINES SHALL BE DONE AT NIGHT BETWEEN 10PM AND 6AM AND BE COORDINATED AND APPROVED BY THE HOME DEPOT - BLOOM ENERGY CONSTRUCTION LIAISON PRIOR TO MAKING UTILITY CONNECTIONS. ANY PRECAUTIONARY MEASURES NEEDED DUE TO UTILITY SHUT OFF SHALL BE COMPLETED BY THE CONTRACTOR.</li> <li>ONLY ONE HALF OF THE REAR DRIVE AISLE MAY BE CLOSED IN ACTIVE CONSTRUCTION AREA(S). OTHER VEHICLES OR MATERIALS SHALL BE KEPT IN STAGING AREA(S) AS TO NOT HINDER TRUCK DELIVERY TRAFFIC DURING THE DAY BETWEEN 6AM AND 10PM.</li> <li>GENERAL HOUSEKEEPING OF SITE INCLUDING SWEEPING AND CONTROL OF SEDIMENT, TRASH, AND DEBRIS SHALL BE DONE DAILY OR IMMEDIATELY UPON CREATION.</li> <li>CONTRACTOR SHALL NOT HAVE EQUIPMENT OR SUPPLIES ON THE JOB SITE FROM THE HOME DEPOT'S COMPETITORS.</li> <li>ALL WORK ON THE HOME DEPOT'S PROPERTY SHALL BE DONE PER THE HOME DEPOT'S SPECIFICATION.</li> <li>CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS SET FORTH WITHIN THE SOIL MANAGEMENT PLAN.</li> <li>ALL INTERIOR CONSTRUCTION SHALL NOT INTERFERE WITH STORE OPERATIONS OR STORE CUSTOMERS AND IS TO OCCUR AT NIGHT BETWEEN 10PM AND 6AM.</li> <li>CONTRACTOR SHALL FURNISH THE FOLLOWING AFTER COMPLETION OF CONSTRUCTION; ALL PROJECT REPORTS, SOIL COMPACTION REPORTS, ASPHALT PAVEMENT LAYER THICKNESS, AGGREGATE BASE THICKNESS, INSPECTION REPORT, CITY SIGNS OFFS, PHOTOS OF CONSTRUCTION THROUGH COMPLETION, AS BUILTS DRAWINGS, REDLINES TO CONSTRUCTION DRAWINGS, AND A SUMMARY OF ALL REDLINES MADE DURING THE CONSTRUCTION PROCESS. CONTRACTOR SHALL FURNISH ALL DOCUMENTS IN A HARDCOPY IN A THREE RING BINDER AND CONTRACTOR SHALL FURNISH CIVIL PLANS IN PDF AND AUTOCAD FORMAT ON A CD OR FLASH DRIVE. CONTRACTOR SHALL SUBMIT PLANS TO THE REGIONAL PLAN CHECKER.</li> </ol>													
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SHT #	DWG #	SHEET TITLE	REV#	DATE																									
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CUSTOMER SITE

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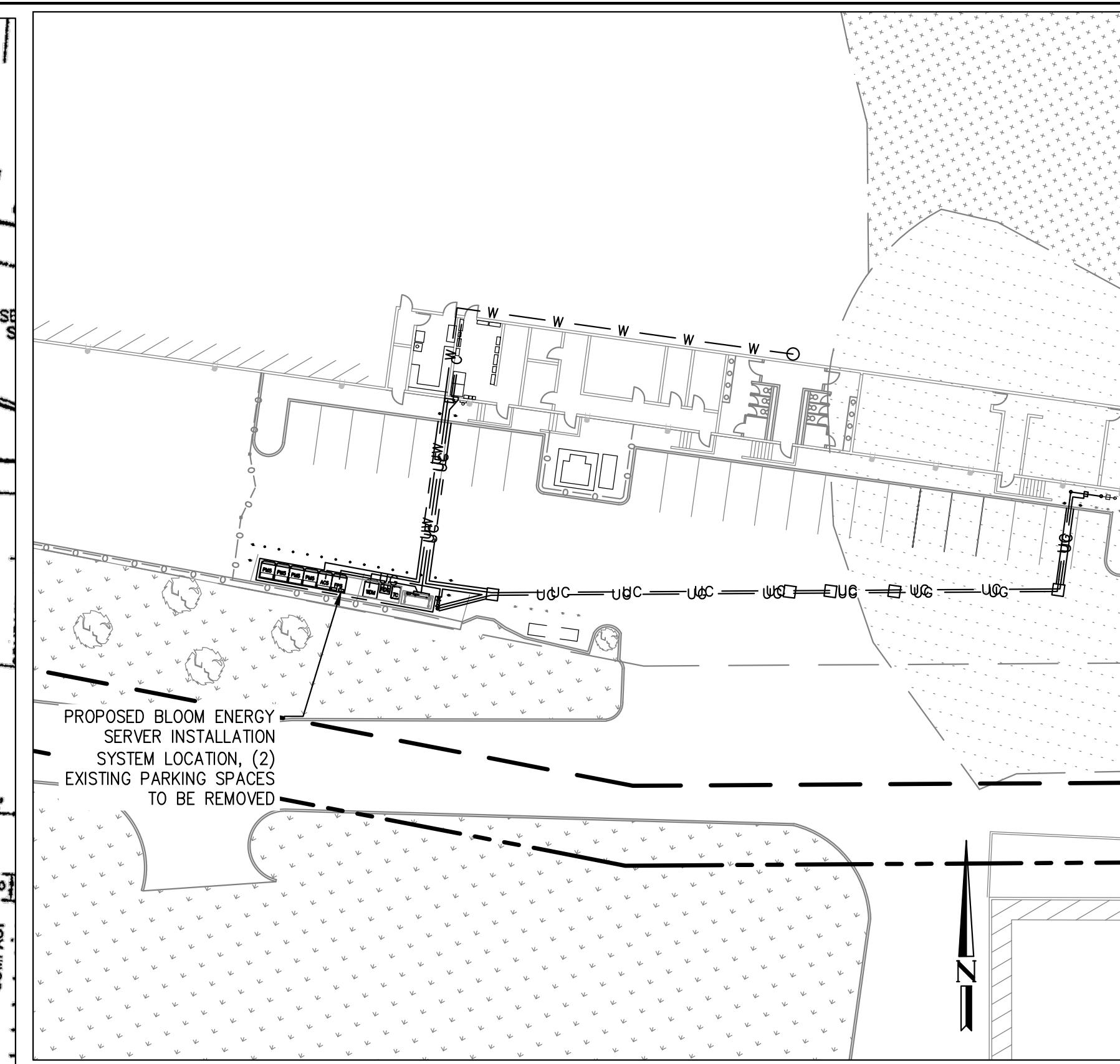
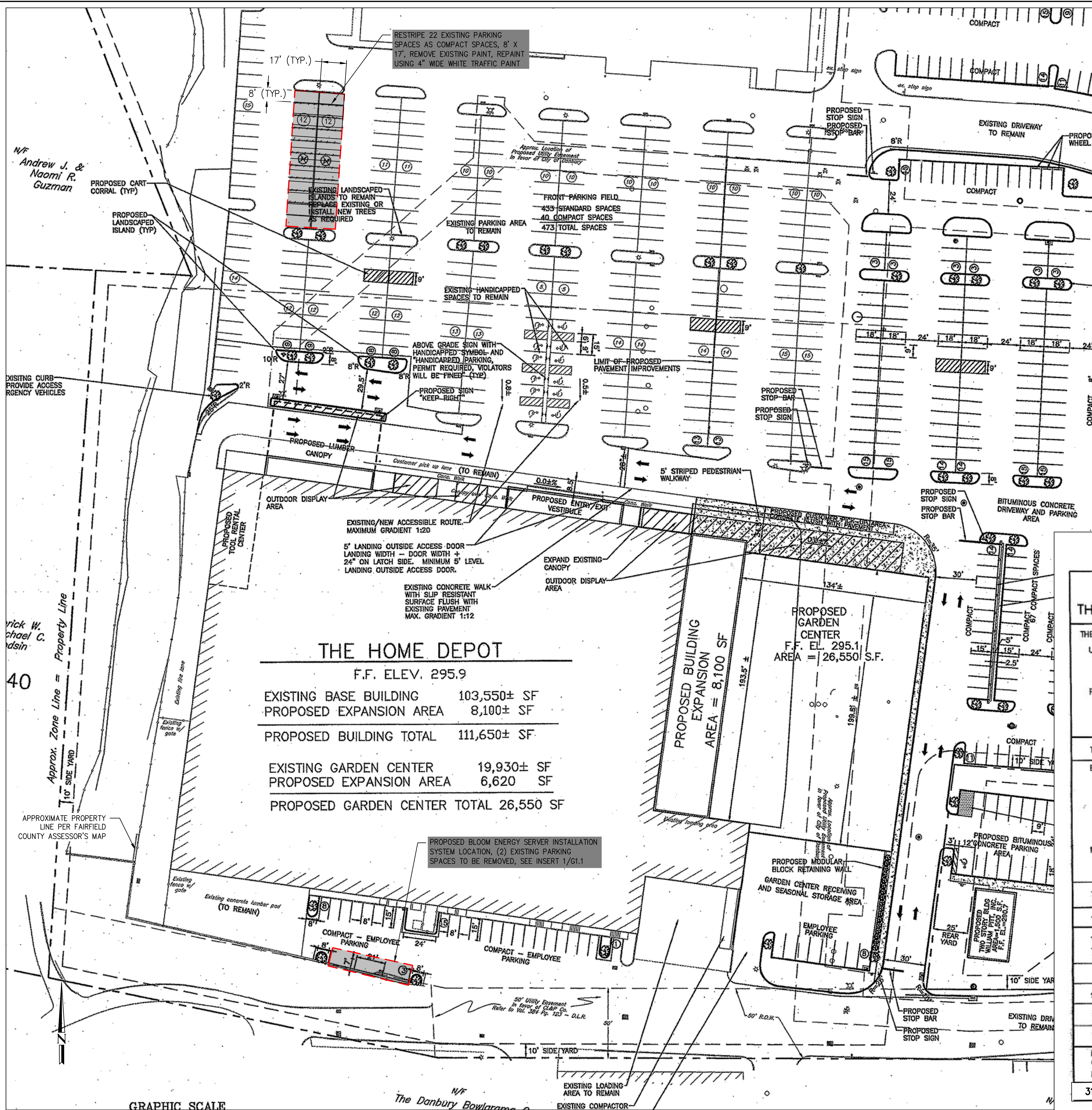


**REVISION HISTORY**

REV	REVISION ISSUE	DATE
-	INITIAL RELEASE	02/10/2021

DESIGNED BY KATE TAYLOR	REVIEWED BY CHRIS BARTUNEK
DRAWN BY BASAVARAJ BENAKANAHALLI	APPROVED BY JOSEPH A. TEMOWO

SHEET TITLE  COVER SHEET
DRAWING NUMBER  G0.1
BLOOM DOCUMENT  DOC-1012979
THIS DRAWING IS 24" X 36" AT FULL SIZE SITE ID: HDP207.0 SHEET 01 OF 04



**SITE PLAN**  
SCALE: 1" = 30'

**SITE REFERENCE NOTE:**  
EXISTING SITE CONDITIONS DRAWN BASED ON SITE PLAN SP-2 BY ROTONDO ENGINEERING LLC DATED ON 04/01/2004.

**OVERALL SITE PLAN**  
SCALE: NTS

**PARKING CALCULATION**  
THE HOME DEPOT - BOB'S/LINEN'S-N-THINGS PARCEL

<p>THE HOME DEPOT USE: RETAIL RETAIL: 14,746 S.F. 0.85 X 14,746 S.F. = 12,534 S.F. PARKING REQUIREMENT: RETAIL: 1 SPACE PER 150 S.F. OF USABLE GROSS FLOOR AREA 12,534 S.F./150 = 83.5</p>					84
<p>TOTAL SPACES REQUIRED - THE HOME DEPOT</p>					84
<p>EXISTING APPROVAL: RETAIL 514 OFFICE 6 WAREHOUSE 13</p>					
<p>PROPOSED IMPROVEMENTS: RETAIL 84</p>					
<p>TOTAL SPACES REQUIRED - THE HOME DEPOT</p>					617
<p>TOTAL SPACES REQUIRED - SITE</p>					REQUIRED EXISTING PROPOSED TOTAL
<p>TOTAL SPACES REQUIRED - THE HOME DEPOT</p>					617
<p>TOTAL SPACES REQUIRED - BOB'S/LINEN'S-N-THINGS &amp; BANK</p>					517
<p>TOTAL SPACES PROVIDED</p>					1134
<p>STANDARD SPACES PROVIDED - 9' X 18'</p>					823 -24 799
<p>COMPACT SPACES PROVIDED - 8' X 15'</p>					311 24 335
<p>HANDICAPPED SPACES REQUIRED: OVER 1000 SPACES, 20 PLUS 1 FOR EACH 100 SPACES</p>					22
<p>HANDICAPPED SPACES PROVIDED:</p>					23
<p>311+24 = 335/1134 = 29.5% &lt;33 1/3 % ALLOWED</p>					

**THE HOME DEPOT**  
F.F. ELEV. 295.9

EXISTING BASE BUILDING	103,550± SF
PROPOSED EXPANSION AREA	8,100± SF
<b>PROPOSED BUILDING TOTAL</b>	<b>111,650± SF</b>

EXISTING GARDEN CENTER	19,930± SF
PROPOSED EXPANSION AREA	6,620 SF
<b>PROPOSED GARDEN CENTER TOTAL</b>	<b>26,550 SF</b>

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DRAWN BY BASAVARAJ BENAKANAHALLI  
REVIEWED BY CHRIS BARTUNEK  
APPROVED BY JOSEPH A. TEMOWO

**PARKING REMOVAL REPLACEMENT PLAN**

DRAWING NUMBER  
**G0.2**

BLOOM DOCUMENT  
**DOC-1012979**

THIS DRAWING IS 24" X 36" AT FULL SIZE  
SITE ID: HDP207.0 SHEET 02 OF 04



OVERALL SITE PLAN

SCALE: = NTS

1  
G1.1

NOTE: ALL ITEMS ON THE DRAWINGS ARE NEW UNLESS OTHERWISE STATED.



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JOSEPH A. TEMOWO, P.E.  
LICENSE #34275

CUSTOMER SITE  
THE HOME DEPOT, INC.  
STORE #6209  
114 FEDERAL ROAD  
DANBURY, CT 06811



REVISION HISTORY		
REV	REVISION ISSUE	DATE
-	INITIAL RELEASE	10/05/2020

DESIGNED BY: POOJA SREERAJ  
DRAWN BY: BASAVARAJ BENAKANAHALLI  
REVIEWED BY: CHRIS BARTUNEK  
APPROVED BY: JOSEPH A. TEMOWO

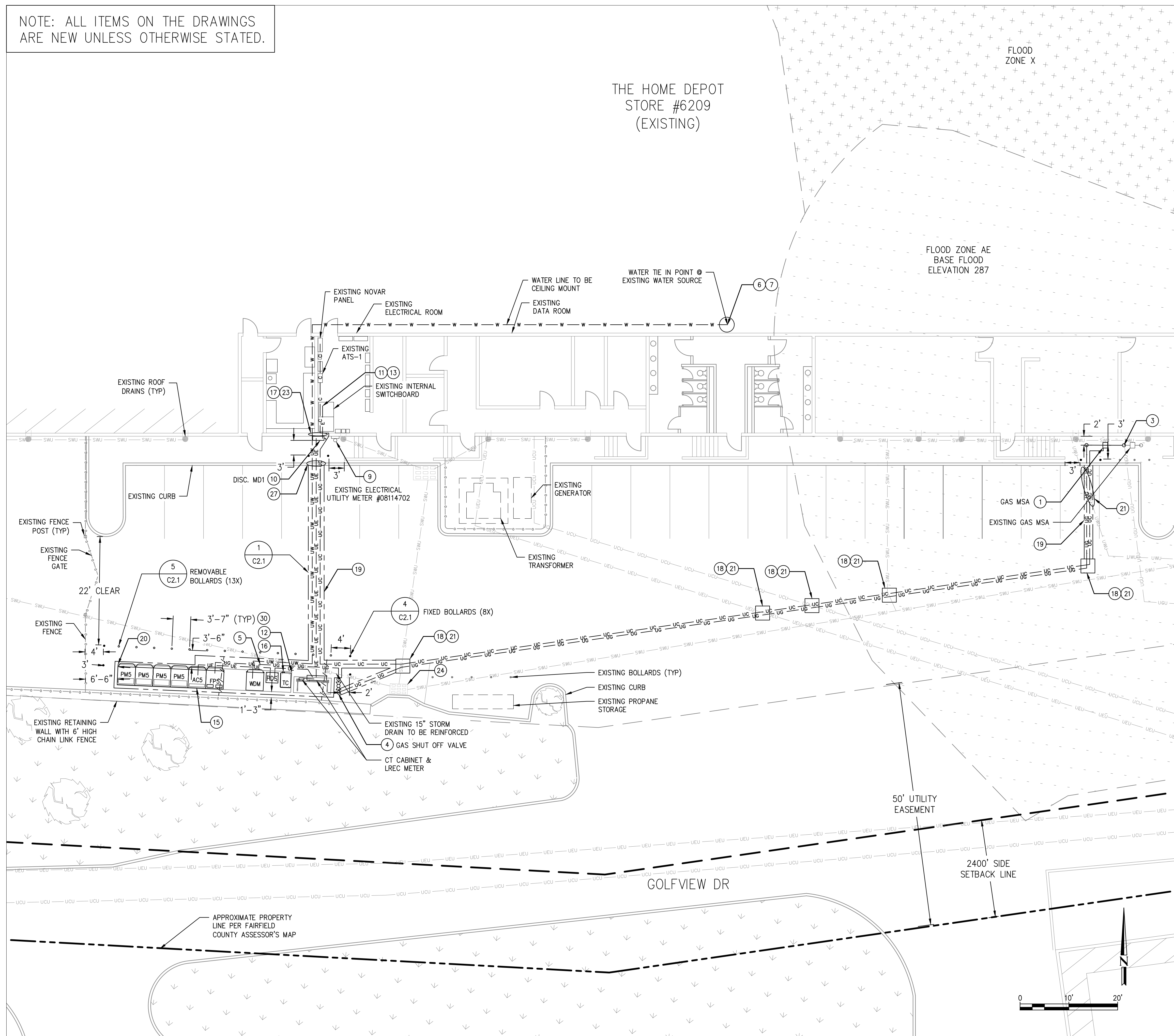
SHEET TITLE  
OVERALL SITE PLAN  
DRAWING NUMBER  
G1.1

BLOOM DOCUMENT  
DOC-1012979  
THIS DRAWING IS 24" X 36" AT FULL SIZE  
SITE ID: HDP207.0 SHEET 03 OF 04



NOTE: ALL ITEMS ON THE DRAWINGS ARE NEW UNLESS OTHERWISE STATED.

THE HOME DEPOT STORE #6209 (EXISTING)



GENERAL NOTES

- CONTRACTOR SHALL CLEAN AND PRIME ALL 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.
- SLOPE LINES SHOWN ARE APPROXIMATE AND INTENDED TO SHOW THE GENERAL DIRECTION OF WATER RUN OFF; SLOPE LINES ARE DRAWN PER VISUAL SURVEY OF SURROUNDING AREA.
- SEE BLOOM ENERGY PRODUCT INSTALLATION DRAWINGS FOR UTILITY CONNECTIONS TO ANCILLARY EQUIPMENT AND ENERGY SERVER.
- 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.

REFERENCE SHEET NOTES

- UTILITY PROVIDED AND INSTALLED GAS METER ASSEMBLY WITH SHUT-OFF VALVE. CONTRACTOR SHALL PROVIDE PAD PER DETAILS IF REQUIRED BY UTILITY COMPANY. COORDINATE ALL CONNECTIONS WITH GAS UTILITY.
- ABOVEGROUND GAS SERVICE TAP BY UTILITY COMPANY. CONTRACTOR SHALL COORDINATE WITH GAS UTILITY. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
- GAS SHUT-OFF VALVE FOR ENERGY SERVER. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL FURNISH AND INSTALL GAS PIPE. 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.
- BLOOM ENERGY SHALL FURNISH DISCONNECT SWITCH AND CONTRACTOR SHALL INSTALL FURNISHED DISCONNECT SWITCH. CONTRACTOR SHALL MOUNT DISCONNECT SWITCH PER MANUFACTURER AND UTILITY SPECIFICATIONS.
- CONTRACTOR SHALL TERMINATE ELECTRIC FEEDER AS SHOWN. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL FURNISH AND INSTALL TWO GROUNDING RODS TO BE PLACED 6' APART MINIMUM. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL FURNISH AND INSTALL ELECTRICAL FEEDERS. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- NEW BLOOM ENERGY SERVER. REFER TO BLOOM ENERGY STANDARD INSTALLATION DRAWING SET FOR ADDITIONAL BLOOM ENERGY SERVER DETAILS.
- 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 FURNISH AND INSTALL CONDUIT AND/OR PIPE BY HORIZONTAL DIRECTIONAL DRILLING (HDD) AS NOTED ON DRAWING. PROVIDE HDD PIT AT START AND END OF HDD. PROVIDE POTHOLE AT ALL LOCATIONS WHERE HDD CROSSES EXISTING UTILITIES PRIOR TO STARTING HDD OPERATIONS. PATCH BACK PIT AND SAW CUT TO MATCH EXISTING. REFER TO UNDERGROUND/TRENCH CONDUIT AND PIPING DETAIL FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL FURNISH 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 SAWCUT TO ALLOW FOR EXCAVATION UNDER ENERGY SERVER AND ANCILLARY PAD LOCATIONS. REFER TO PAD DETAIL FOR ADDITIONAL EXCAVATION AND BACKFILL REQUIREMENTS.
- PROTECT EXISTING UNDERGROUND UTILITY LINES FROM DAMAGE WHEN CROSSING WITH NEW UNDERGROUND UTILITIES. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED LINES.
- CONTRACTOR SHALL TRANSITION ALL ABOVEGROUND LINES TO UNDERGROUND TOWARD ANCILLARY EQUIPMENT. ABOVE GROUND UTILITIES SHALL BE PROTECTED AS NECESSARY, THEN ROUTED UNDERGROUND TO EQUIPMENT STUB-UP LOCATIONS PER MECHANICAL DETAIL.
- CONTRACTOR SHALL FURNISH AND INSTALL DANDY SACK OR AN APPROVED EQUAL WITH OUTFLOW PORTS AT STORM DRAIN INLET. REFER TO EROSION CONTROL DETAIL FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL UNDER-CUT EXISTING CURB FOR TRENCHING UTILITY LINES AND BACKFILL WITH CONCRETE SLURRY. IF CURB IS DAMAGED, REPAIR TO MATCH EXISTING.
- BOLLARDS WITHIN 4.5 FEET OF ENERGY SERVERS SHALL BE PLACED TO LINE UP BETWEEN ENERGY SERVER DOORS. ALL OTHER BOLLARDS SHALL BE PLACED A MINIMUM OF 4 FEET ON THE CENTER UNLESS OTHERWISE NOTED ON PLANS.

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 LINES FROM DAMAGE WHEN CROSSING WITH NEW UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGE LINES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER FROM THOSE REPRESENTED HEREON. SUCH CONDITIONS COULD RENDER THE DESIGNS HEREON INAPPROPRIATE AND MAY REQUIRE ADJUSTMENTS TO AVOID CONFLICTS.



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SHEET TITLE  
DETAILED SITE PLAN

DRAWING NUMBER  
C1.1

BLOOM DOCUMENT  
DOC-1012979

THIS DRAWING IS 24" X 36" AT FULL SIZE  
SITE ID: HDP207.0 SHEET 04 OF 04

SITE REFERENCE NOTE:  
EXISTING SITE CONDITIONS DRAWN BASED ON SITE PLAN SP-2 BY ROTONDO ENGINEERING LLC DATED ON 04/01/2004.

DETAILED SITE PLAN  
SCALE: 1" = 10'  
1  
C1.1

# Exhibit 3

# Calculation of Yuma Sound Pressure Based On Distance

By Bob Hintz 1/16

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

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

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

## Scenario 1

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

**$L_p = 50.3$  dB**

Where:

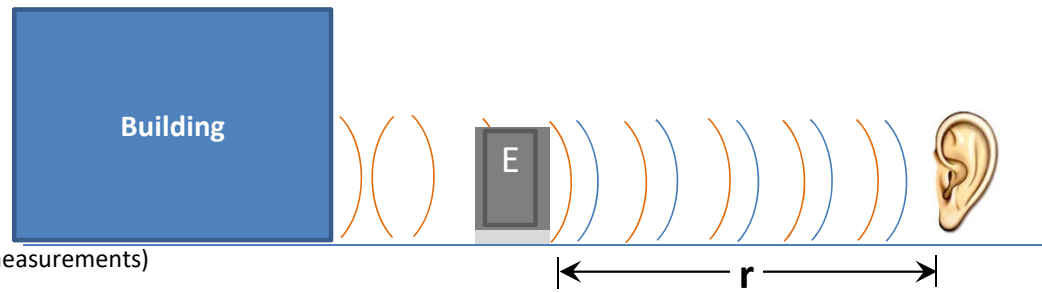
$L_w = 81.4$  dB  
 $Q = 4$   
 $r = 47$  Feet

ES sound power (Calc. from measurements)

Directivity factor

Enter value here for both Scenarios

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



## Scenario 2

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

**$L_p = 47.3$  dB**

Where:

$L_w = 81.4$  dB  
 $Q = 2$   
 $r = 47$  Feet

ES sound power (Calc.)

Directivity factor

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

