

From: Greg Oross <Greg.Oross@bloomenergy.com>
Sent: Tuesday, July 27, 2021 9:53 AM
To: Bachman, Melanie <Melanie.Bachman@ct.gov>
Subject: Petition No. 1419 - Bloom Energy

EXTERNAL EMAIL: This email originated from outside of the organization. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

Hi Melanie,

I need to apologize, after discussions with our design and project management teams it has been decided that we are going to once again return to the originally CSC approved server foundation location, proposed in the parking lot.

I've attached the final site plan proposing the location of the server foundation which was amended late last week.

If you could please, when you have the time, once again, provide the necessary amendment letter to our Petition file so that I can get the building permit application submitted to Danbury.

If you need anything at all, please let me know.

Thanks for your patience.

Greg

Gregory S. Oross, P.P.

Senior Planner/Permitting Specialist

Bloomenergy

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STORE NUMBER: 6209
114 FEDERAL ROAD
DANBURY, CT 06811

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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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4353 N. FIRST STREET
SAN JOSE, CA 95134

PROPRIETARY AND CONFIDENTIAL

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

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

CUSTOMER SITE

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



SITE INFORMATION	PERMITTING INFORMATION	CODES	PROJECT DESCRIPTION	CONTRACTOR NOTES																																																									
<p>PARCEL INFORMATION PROPERTY OWNER THE HOME DEPOT, INC. COUNTY FAIRFIELD COUNTY TAX MAP # Mblu L08/ / 15/ 2/</p> <p>PROPERTY DESCRIPTION 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>PARKING INFORMATION EXISTING PARKING** 1134 REQUIRED PARKING** 1134 REMOVED PARKING 02 ADDED PARKING*** CONVERT 30 STANDARD PARKING SPACES INTO 34 COMPACT PARKING SPACES FINAL PARKING COUNT 1136</p> <p>*BASED ON SITE PLAN 'SP-3' BY ROTONDO ENGINEERING LLC DATED 04/01/2004 **BASED ON SITE PLAN 'SP-1' BY ROTONDO ENGINEERING LLC DATED 04/01/2004 ***SEE PARKING CALCULATION ON SHEET G1.2.</p>	<p>MUNICIPAL</p> <table border="1"> <tr> <th>AGENCY</th> <th>DEPARTMENT</th> <th>CONTACT INFO</th> </tr> <tr> <td>PLANNING</td> <td>DANBURY PLANNING AND ZONING</td> <td>(203) 797-4525</td> </tr> <tr> <td>BUILDING</td> <td>DANBURY BUILDING DEPARTMENT</td> <td>(203) 797-4580</td> </tr> <tr> <td>FIRE</td> <td>DANBURY FIRE DEPARTMENT</td> <td>(203) 796-1550</td> </tr> </table> <p>UTILITY</p> <table border="1"> <tr> <th>TYPE</th> <th>COMPANY</th> <th>CONTACT INFO</th> </tr> <tr> <td>NATURAL GAS</td> <td>EVERSOURCE (CT)</td> <td>(860) 286-2000</td> </tr> <tr> <td>ELECTRICAL</td> <td>EVERSOURCE (CT)</td> <td>(860) 286-2000</td> </tr> <tr> <td>WATER</td> <td>DANBURY WATER DEPARTMENT</td> <td>(203) 797-4637</td> </tr> </table>	AGENCY	DEPARTMENT	CONTACT INFO	PLANNING	DANBURY PLANNING AND ZONING	(203) 797-4525	BUILDING	DANBURY BUILDING DEPARTMENT	(203) 797-4580	FIRE	DANBURY FIRE DEPARTMENT	(203) 796-1550	TYPE	COMPANY	CONTACT INFO	NATURAL GAS	EVERSOURCE (CT)	(860) 286-2000	ELECTRICAL	EVERSOURCE (CT)	(860) 286-2000	WATER	DANBURY WATER DEPARTMENT	(203) 797-4637	<table border="1"> <tr> <th>BUILDING</th> <td>2018 CONNECTICUT STATE BUILDING CODE 2015 INTERNATIONAL BUILDING CODE 2015 INTERNATIONAL EXISTING BUILDING CODE</td> </tr> <tr> <th>PLUMBING</th> <td>2015 INTERNATIONAL PLUMBING CODE</td> </tr> <tr> <th>MECHANICAL</th> <td>2015 INTERNATIONAL MECHANICAL CODE</td> </tr> <tr> <th>ELECTRICAL</th> <td>2017 NFPA 70, NATIONAL ELECTRICAL CODE</td> </tr> <tr> <th>FIRE</th> <td>2018 CT FIRE SAFETY CODE 2018 CT FIRE PREVENTION CODE</td> </tr> </table>	BUILDING	2018 CONNECTICUT STATE BUILDING CODE 2015 INTERNATIONAL BUILDING CODE 2015 INTERNATIONAL EXISTING BUILDING CODE	PLUMBING	2015 INTERNATIONAL PLUMBING CODE	MECHANICAL	2015 INTERNATIONAL MECHANICAL CODE	ELECTRICAL	2017 NFPA 70, NATIONAL ELECTRICAL CODE	FIRE	2018 CT FIRE SAFETY CODE 2018 CT FIRE PREVENTION CODE	<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 STEEL SKID. THE WORK INCLUDES ALL ITEMS LISTED IN THE SCOPE OF WORK.</p>	<ol style="list-style-type: none"> 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. 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. 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"> SHIFTING SYSTEM, BOLLARD OR SCREENING/WALL LOCATION 12" OR LESS, AND NOT IMPACTING ANY DRIVE AISLES OR ADDITIONAL PARKING SPACES 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.) MINOR GAS LINE OR UTILITY GAS METER CHANGES (LESS THAN 12" MODIFICATION) AT THE GAS PLANNER'S DIRECTION SIGNAGE LOCATION CHANGES AT INSPECTOR'S DIRECTION, OR BASED ON EXISTING SITE CONDITIONS ANY WIRING OR CABLING CHANGES BETWEEN ANY BLOOM-PROVIDED EQUIPMENT, AT THE EOR OR BLOOM SUPERINTENDENT'S DIRECTION ANY MODIFICATION TO SCOPE OF LOW VOLTAGE WIRING, AT EOR, BLOOM SUPERINTENDENT OR UTILITY'S DIRECTION ANY CHANGES THAT STILL SATISFY MINIMUM SUBGRADE PREPARATION METHODS, BASED ON ON-SITE CONDITIONS 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. 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. CONTRACTOR SHALL CONTACT THE HOME DEPOT STORE MAINTENANCE DIVISION 48 HOURS BEFORE CONSTRUCTION TO SET UP A PRE-CONSTRUCTION MEETING. 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. 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. ALL UTILITY TRENCH WORK CROSSING DRIVEWAYS SHALL BE DONE AT NIGHT BETWEEN 10PM AND 6AM. TRENCHES MUST BE COVERED ONE HOUR BEFORE STORE OPENS. 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. 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. 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. GENERAL HOUSEKEEPING OF SITE INCLUDING SWEEPING AND CONTROL OF SEDIMENT, TRASH, AND DEBRIS SHALL BE DONE DAILY OR IMMEDIATELY UPON CREATION. CONTRACTOR SHALL NOT HAVE EQUIPMENT OR SUPPLIES ON THE JOB SITE FROM THE HOME DEPOT'S COMPETITORS. ALL WORK ON THE HOME DEPOT'S PROPERTY SHALL BE DONE PER THE HOME DEPOT'S SPECIFICATION. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS SET FORTH WITHIN THE SOIL MANAGEMENT PLAN. ALL INTERIOR CONSTRUCTION SHALL NOT INTERFERE WITH STORE OPERATIONS OR STORE CUSTOMERS AND IS TO OCCUR AT NIGHT BETWEEN 10PM AND 6AM. 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. 																							
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REVISION HISTORY		
REV	REVISION ISSUE	DATE
0A	INITIAL RELEASE	10/05/2020
0B	FOR PERMIT	03/22/2021
0C	REVISED PER AHJ AND UTILITY COMMENTS	07/19/2021

DESIGNED BY KATE TAYLOR	REVIEWED BY RAJ RAGBOTRA
DRAWN BY BASAVARAJ BENAKANAHALLI	APPROVED BY CARSON TURNER

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 11

GENERAL CONSTRUCTION NOTES

- 1. IN THE EVENT OF DISCREPANCIES BETWEEN THE DRAWINGS, SPECIFICATIONS, OR SCOPE OF WORK SUMMARY IN THIS PACKAGE, NOTIFY BLOOM ENERGY IMMEDIATELY. REFERENCE SEPARATE BLOOM ENERGY DOC-1008337 FOR ASSOCIATED ENERGY SERVER INSTALLATION SPECIFICATIONS.
2. THE EXISTING SITE PLAN FEATURES ARE BASED ON DESIGN DRAWINGS, AS-BUILT PLANS, AERIAL PHOTOGRAPHS AND FIELD MEASUREMENTS UNLESS OTHERWISE NOTED. THE LOCATIONS OF ALL FEATURES AND STRUCTURES ON THE PLANS ARE APPROXIMATE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL WORK IS DONE IN ACCORDANCE WITH CURRENT APPLICABLE NATIONAL, STATE OSHA AND LOCAL CODES, ORDINANCES AND REQUIREMENTS AT A MINIMUM; EVEN IF NOT SPECIFICALLY REFERENCED IN THESE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS. MORE STRINGENT REQUIREMENTS MAY BE SPECIFIED. IN SITUATIONS WHERE THERE IS A CONFLICT BETWEEN THE MINIMUM REGULATORY REQUIREMENTS AND INFORMATION PROVIDED IN THESE DRAWINGS OR SPECIFICATIONS CONSULT BLOOM ENERGY FOR RESOLUTION BEFORE COMMENCING WORK.
4. THE CONTRACTOR SHALL PROTECT ALL EXISTING ITEMS AND FACILITIES TO REMAIN THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL REPAIR AND/OR REPLACE, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEMS AND FACILITIES TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS, TO THE SATISFACTION OF PROPERTY OWNER AND BLOOM ENERGY.
5. UNLESS DELIVERY IS SPECIFIED BY BLOOM ENERGY TO THE JOB SITE, CONTRACTOR SHALL DELIVER ALL EQUIPMENT, DAMAGE-FREE TO THE JOB SITE.
6. PRIOR TO COMMENCING ANY EXCAVATION OR DEMOLITION, THE CONTRACTOR SHALL CONTACT LOCAL UTILITIES, INCLUDING BUT NOT LIMITED TO, ELECTRICAL, GAS, WATER, CABLE, AND TELEPHONE, CONTRACTOR SHALL REQUEST 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 OF ANY AND ALL UTILITIES DAMAGED BY THE CONTRACTOR'S OPERATION AT NO ADDITIONAL EXPENSE.
7. BLOOM ENERGY WILL PROVIDE THE CONTRACTOR WITH COPIES OF ALL PERMITS AND PROVIDE THE CONTRACTOR ANY CONDITIONS OF APPROVAL BY THE PLANNING DEPARTMENT.
8. THE CONTRACTOR SHALL NOTIFY JURISDICTIONS AS REQUIRED FOR INSPECTIONS.
9. THE CONTRACTOR SHALL PROVIDE BLOOM ENERGY WITH:
- A CONSTRUCTION SCHEDULE PRIOR TO STARTING THE WORK
- A QUALIFIED JOB SUPERINTENDENT THROUGHOUT THE WORK
- PHOTOS SHOWING TRENCHES PRIOR TO BACKFILL, SLOPE OF STEEL OR PRECAST PADS
- FINAL AS BUILT DRAWINGS OF ALL UNDERGROUND CONSTRUCTION.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL BARRICADES AND SAFETY SIGNS PER OSHA REQUIREMENTS.
11. THE CONTRACTOR SHALL MAINTAIN OVERALL CONSTRUCTION SITE CLEANLINESS, INCLUDING PROVISIONS OF A DEBRIS BOX WITH WEEKLY SERVICING, REMOVAL OF ALL CONTRACTOR/SUBCONTRACTOR REFUSE AND DEBRIS, AND SWEEPING OF THE ENTIRE YARD AREA AT THE COMPLETION OF THE WORK.
12. UNLESS STATED OTHERWISE IN THE SCOPE OF WORK SUMMARY, THE CONTRACTOR SHALL FURNISH AND INSTALL PROCEDURES, TESTING, MATERIALS AND EQUIPMENT SHOWN ON THE PLANS.
13. THE PLAN VIEW DRAWINGS PROVIDED IN THIS SET INCLUDE A ROUGH SCALE REPRESENTATION OF EXISTING AND PROPOSED CONDITIONS AND SHOULD NOT BE SCALED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS ON SITE. ALL DRAWINGS MARKED "NTS" HAVE NO RELATIVE SCALE AND ONLY LISTED DIMENSIONS SHOULD BE USED.
14. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF DAMAGE TO THE WORK OF OTHER TRADES CAUSED BY THEIR OPERATIONS. ALL REPAIRS SHALL BE PERFORMED AT THE COST OF THE CONTRACTOR RESPONSIBLE FOR THE DAMAGES. WORK SHALL ONLY BE PERFORMED AFTER APPROVAL OF A REPRESENTATIVE OF THE TRADE WHOSE WORK WAS DAMAGED.
15. THE CONTRACTOR SHALL NOTIFY BLOOM ENERGY IF SITE CONDITIONS OR DIMENSIONS DISAGREE WITH INFORMATION SHOWN ON THE DRAWINGS. WORK IS NOT TO PROCEED UNTIL SUCH DIFFERENCES ARE RESOLVED.
16. THE CONTRACTOR SHALL EXAMINE THE SITE AND FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS, AND BE PREPARED TO PERFORM THE WORK WITHIN THE EXISTING CONDITIONS.
17. THE CONTRACTOR SHALL INSPECT WORK PREVIOUSLY PREPARED OR INSTALLED BY OTHERS BEFORE APPLYING SUBSEQUENT MATERIALS OR FINISHES. IF UNSATISFACTORY, NOTIFY BLOOM ENERGY. DO NOT PROCEED UNTIL THE DEFECTIVE WORK HAS BEEN CORRECTED.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FAULTY MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER FINAL PROJECT PAYMENT IS MADE. ANY DEFECT OR DAMAGE FOUND EVEN AFTER THE FINAL ACCEPTANCE, CERTIFICATION AND PAYMENT FOR THIS PROJECT WILL BE REMEDIATED AT THE CONTRACTOR'S EXPENSE. REPAIRS OR REPLACEMENTS REQUIRED WILL SUBSEQUENTLY BE WARRANTED FOR ONE YEAR AFTER WORK COMPLETION AND ACCEPTANCE BY BLOOM ENERGY AND AHJ.
19. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES AND OSHA REQUIREMENTS, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY LANDSCAPED AREAS TO PRE-CONSTRUCTION CONDITION AS ASSESSED BY THE PROPERTY OWNER OR CUSTOMER. CUSTOMER APPROVAL OF AN ACCEPTABLE STATE IS REQUIRED TO CONFIRM COMPLETION OF WORK. THE CONTRACTOR SHALL SCHEDULE A POST CONSTRUCTION WALK TO EVALUATE THE LANDSCAPING FUNCTIONALITY WITH THE OWNER OR CUSTOMER'S LANDSCAPER.
21. GENERAL HOUSEKEEPING OF THE SITE, INCLUDING SWEEPING AND CONTROL OF SEDIMENT, TRASH, AND DEBRIS SHALL BE PERFORMED DAILY OR IMMEDIATELY UPON THE OCCURRENCE.
22. DURING CONSTRUCTION ALL EXITS AND DOORWAYS MUST REMAIN UNOBSTRUCTED.
23. THE TYPES, LOCATION, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENTS, SIZED, LOCATIONS AND DEPTHS OF SUCH GROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY BLOOM ENERGY IF WORK CANNOT PROCEED AS PROPOSED.

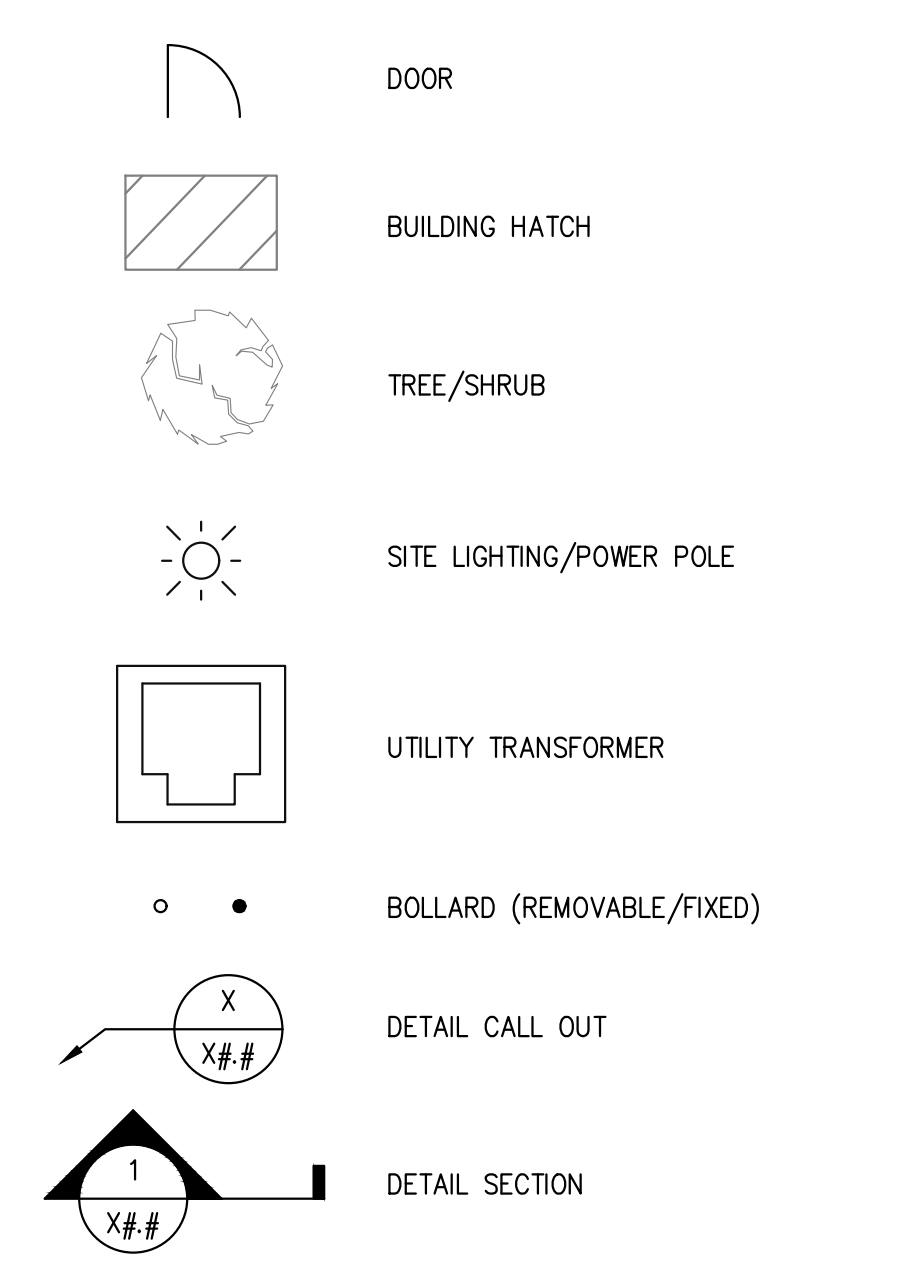
SITE SPECIFIC CONSTRUCTION NOTES

- 1. CONSTRUCTION SUPERINTENDENT SHALL CONTACT THE CUSTOMER REPRESENTATIVE FOR A PRE-CONSTRUCTION CONFERENCE TWO WEEKS PRIOR TO THE START OF THE WORK. THE SCOPE OF WORK AND TIMELINE SHALL BE DISCUSSED WITH RESPECT TO ANY COORDINATION ISSUES WHICH SHALL DISRUPT THE FACILITY OPERATIONS. THE SUPERINTENDENT SHALL SUBMIT A WEEKLY STATUS REPORT TO THE CUSTOMER, WITH PICTURES, VIA EMAIL TO THE CUSTOMER REPRESENTATIVE. THIS INCLUDES ANY FACILITY EQUIPMENT WHICH ARE IN CLOSE PROXIMITY TO THE CONSTRUCTION WORK WHICH WILL BE MOVED BY THE FACILITY REPRESENTATIVES.
2. TRENCHING:
2.1. ALLOWABLE TIMES FOR UTILITY TRENCH WORK IN DRIVEWAY SHALL BE COORDINATED WITH THE CUSTOMER.
2.2. TRENCHING SHALL BE DONE IN STAGES, TO ENSURE CUSTOMER TRAFFIC FLOW IS NOT IMPEDED.
2.3. WHEN THE TRENCH IS OPEN, IT SHALL BE COVERED DURING OFF-WORK HOURS WITH PLATES THAT ARE RATED FOR H-20 VEHICLE LOADING.
3. UTILITY CONNECTIONS THAT REQUIRE TAPPING ON LIVE LINES SHALL BE PERFORMED AT NIGHT AND BE COORDINATED WITH AND APPROVED BY THE CUSTOMER PRIOR TO MAKING UTILITY CONNECTIONS. ANY PRECAUTIONARY MEASURES REQUIRED DUE TO UTILITY SHUT-OFF NEED TO BE COMPLETED BY CONTRACTOR.
4. ONLY HALF OF DRIVE AISLES MAY BE CLOSED IN ACTIVE CONSTRUCTION AREAS. OTHER VEHICLES OR MATERIALS SHALL BE KEPT AWAY FROM THE AREA SO AS TO NOT HINDER TRAFFIC FLOW. COORDINATE THE LOCATION OF ON-SITE PARKING AND/OR TEMPORARY STORAGE WITH CUSTOMER REPRESENTATIVES.
5. MAINTAIN MINIMUM 20' FIRE LANE ACCESS DURING CONSTRUCTION AND STAGE TRENCHING TO ACCOMPLISH REQUIRED FIRE ACCESS AS NECESSARY.
6. STABILIZATION:
6.1. SEDIMENT, EROSION AND TRASH CONTROL SHALL BE PERFORMED AT ALL TIMES. BEST MANAGEMENT PRACTICES (BMPS) SHALL BE INSTALLED PRIOR TO WORK START AND REMOVED ONLY WHEN THE SITE IS FULLY STABILIZED.
6.2. THE SITE SHALL BE CONSIDERED "FULLY STABILIZED" WHEN THE CUSTOMER REPRESENTATIVE(S) HAS REVIEWED SUBMITTED PICTURES AND ACCEPTED THE STABILIZATION.
7. ALL SITE RELATED IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO PAVEMENT RESTORATION, CURB INSTALLATION, AND TURF RESTORATION SHALL BE IN CONFORMANCE TO THE AUTHORITY HAVING JURISDICTION SITE DEVELOPMENT STANDARDS, SPECIFICATIONS, AND DETAILS, UNLESS MORE STRINGENTLY SPECIFIED HEREIN.

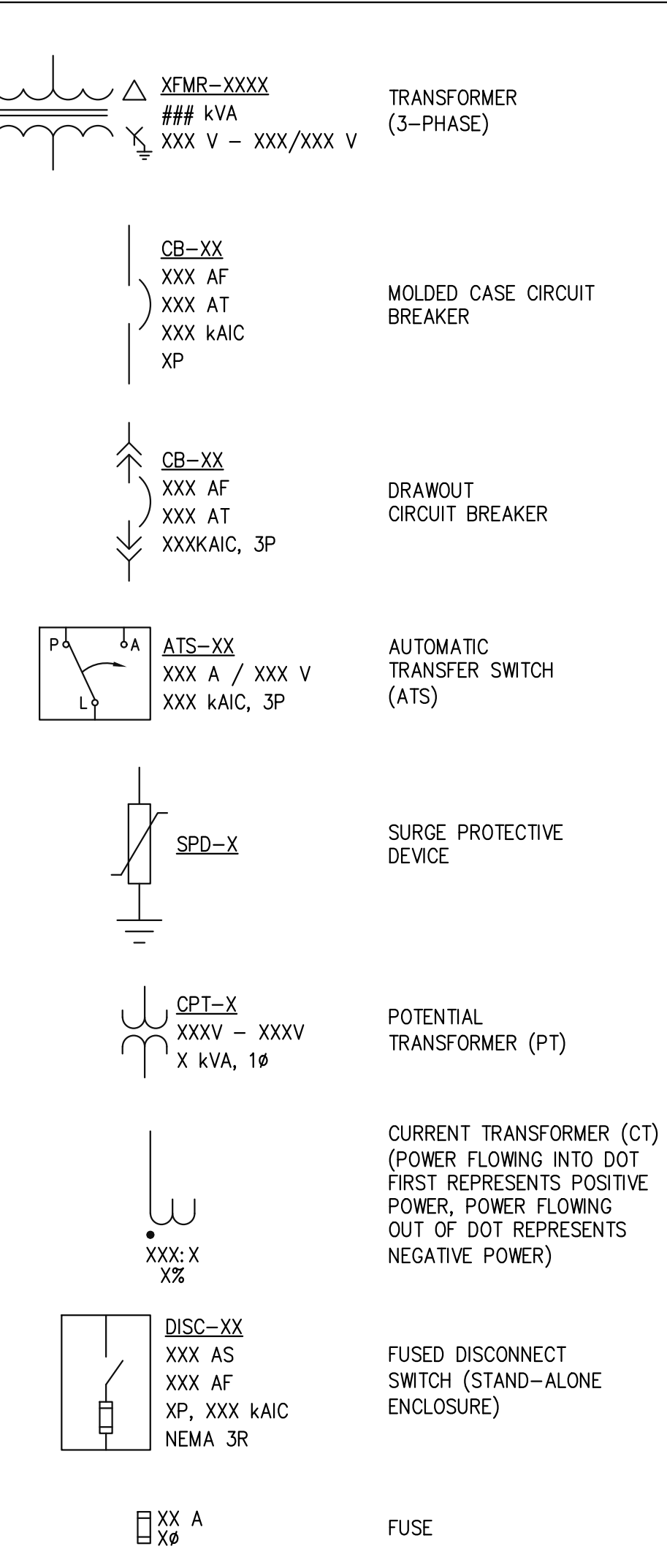
ABBREVIATIONS

Table listing abbreviations for units, materials, and equipment. Includes entries like °C DEGREES CELSIUS, °F DEGREES FAHRENHEIT, AC ALTERNATING CURRENT, ASPHALT CONCRETE, ES5 AC POWER SECTION, etc.

SITE PLAN SYMBOLS

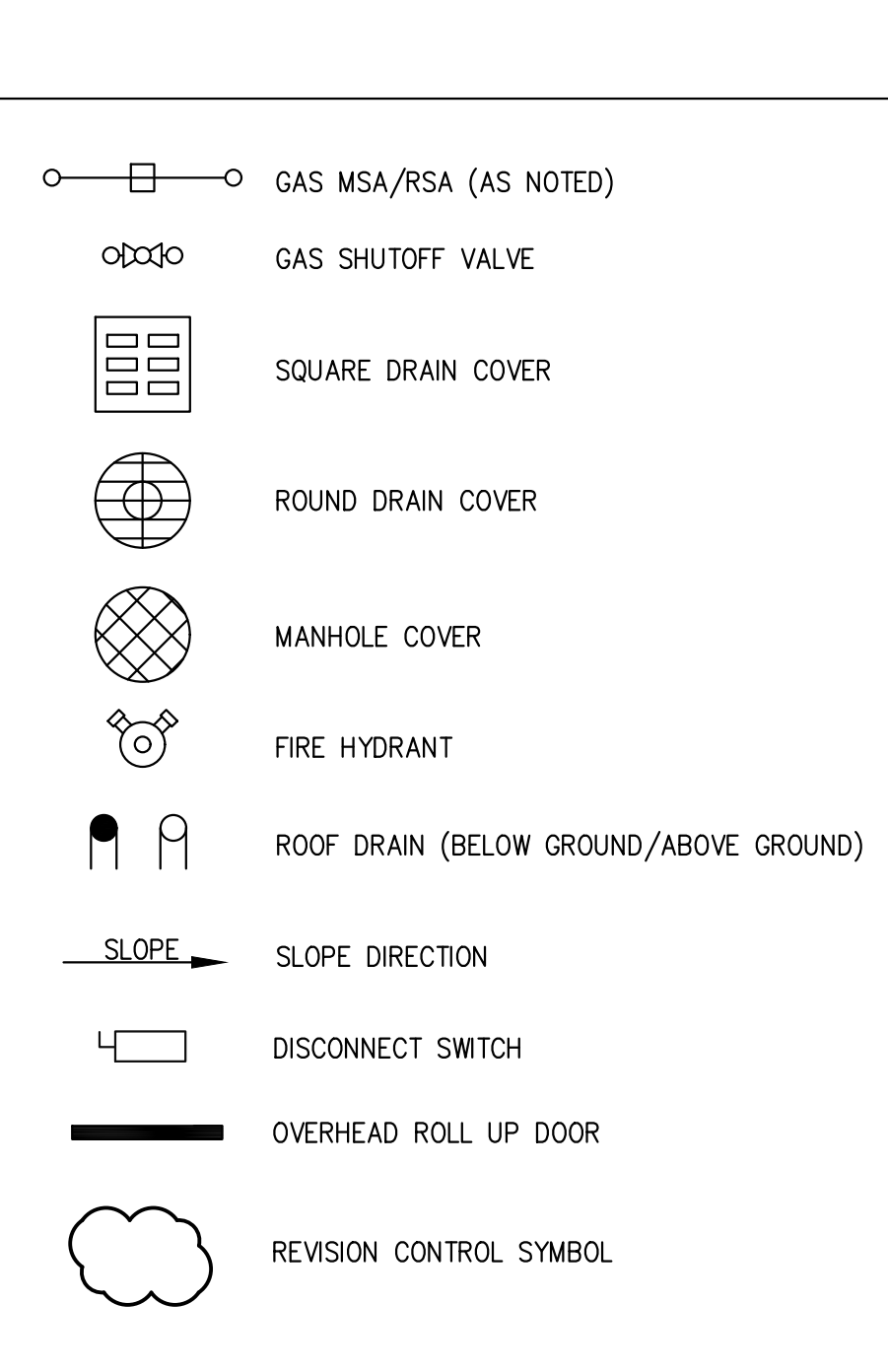


ELECTRICAL SINGLE LINE SYMBOLS

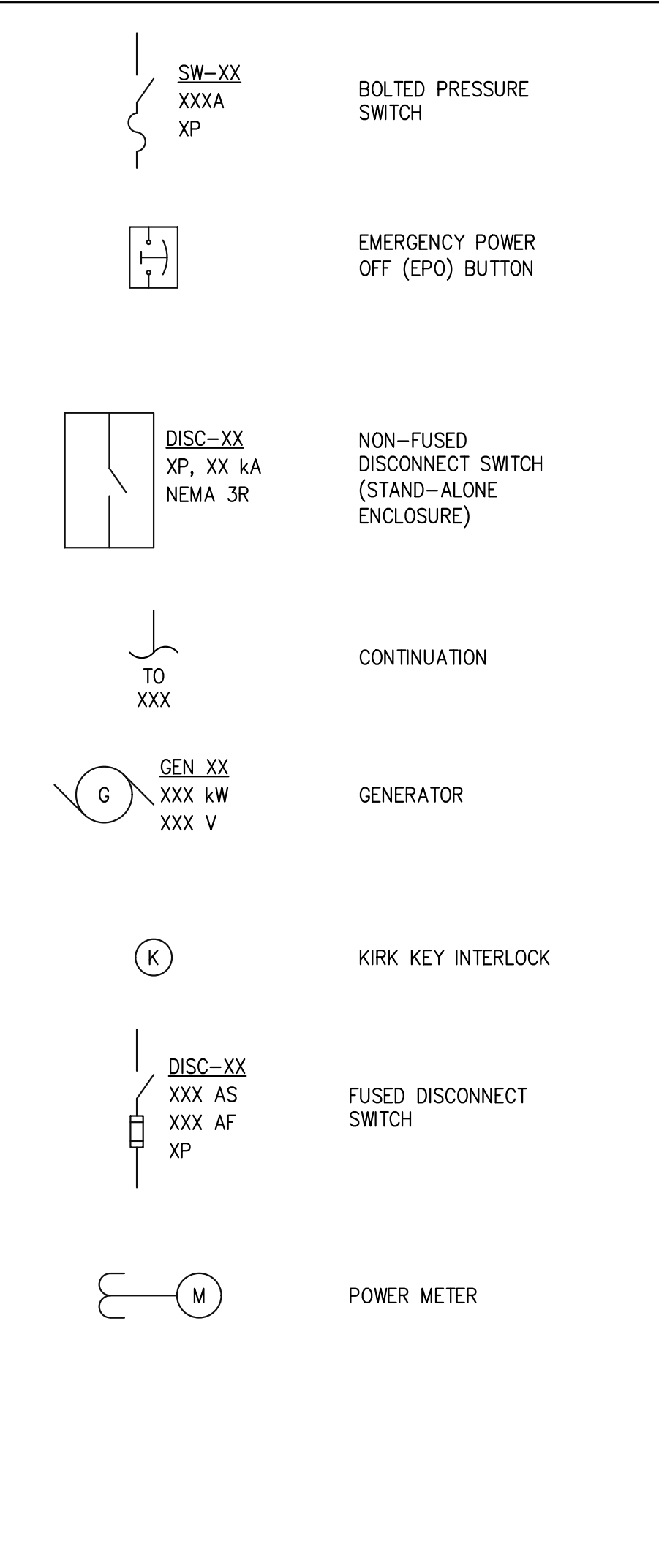


ABBREVIATIONS (CONTINUED)

Table listing additional abbreviations: SPD SURGE PROTECTIVE DEVICE, SS STAINLESS STEEL, SSU SANITARY SEWER, SWFP STORM WATER POLLUTION PROTECTION, etc.



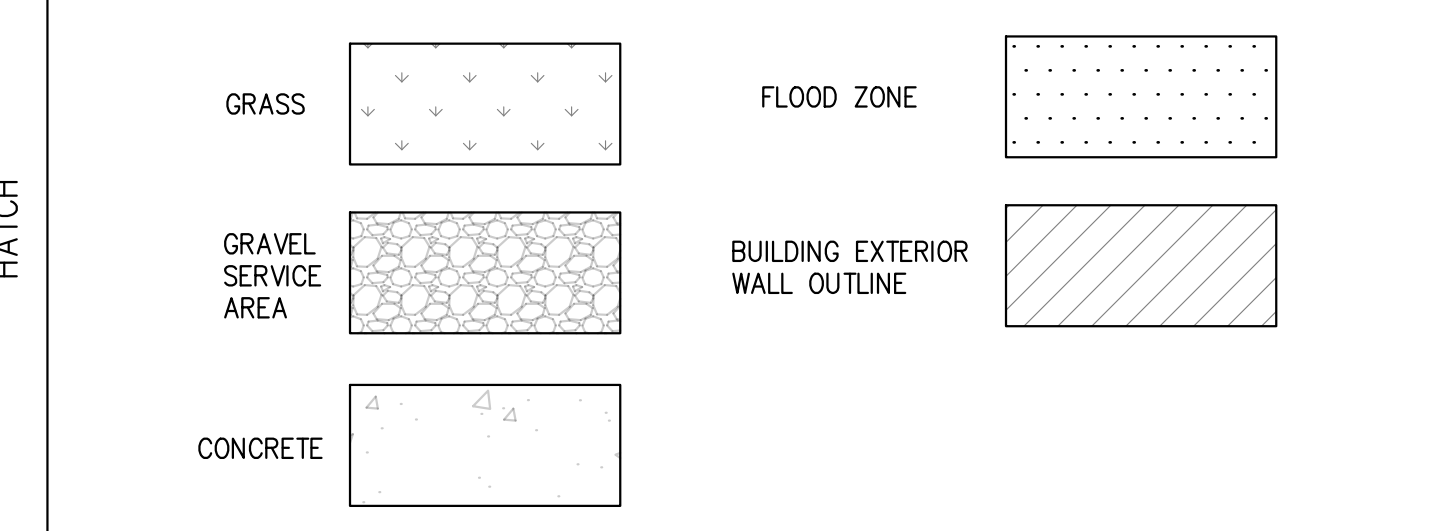
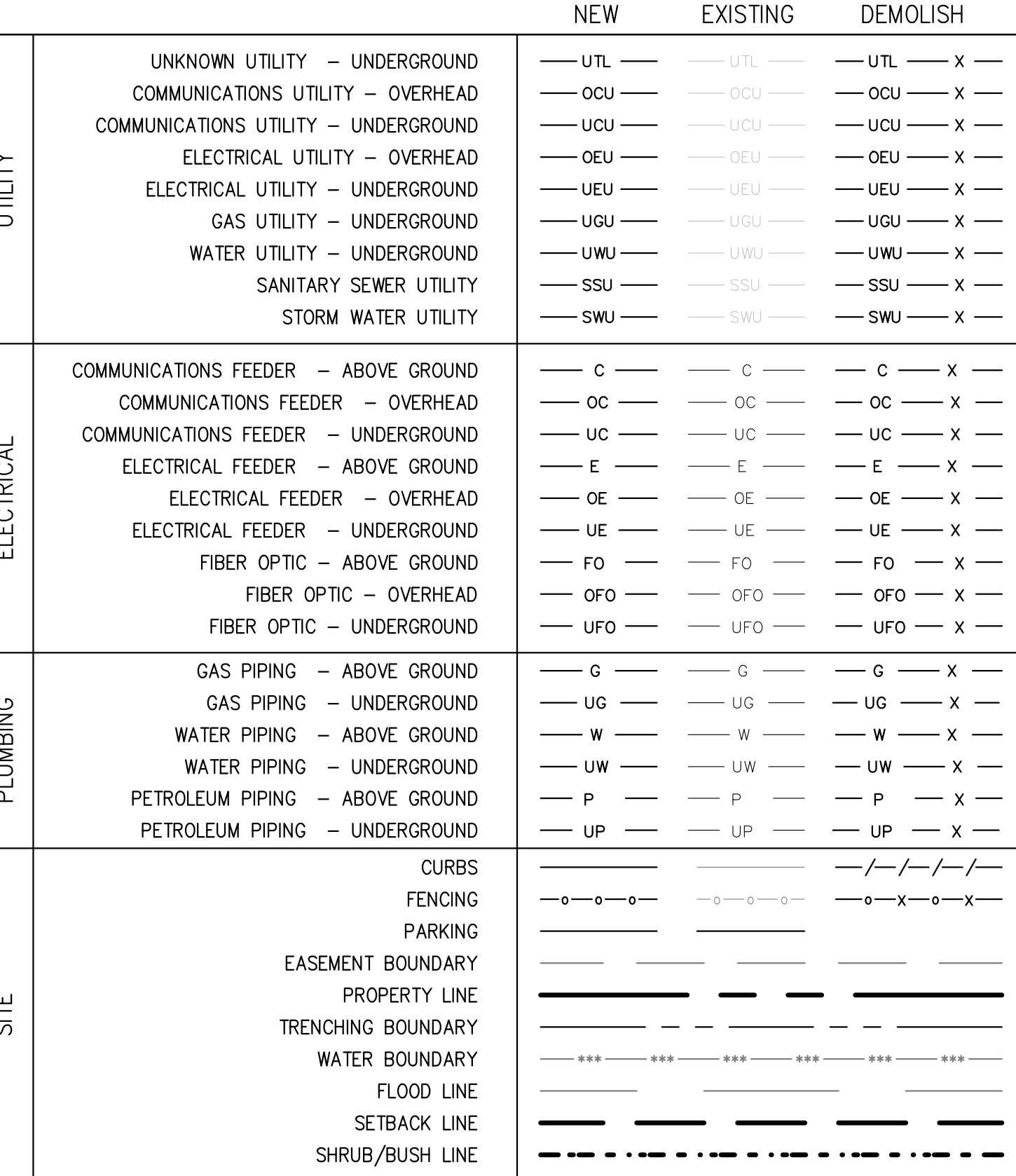
ABBREVIATIONS (CONTINUED)



ABBREVIATIONS (CONTINUED)

Table listing additional abbreviations: V VOLTS, VAC VOLTS (AC), VDC VOLTS (DC), VIF VERIFY IN FIELD, etc.

LINETYPES



ES5-VATAAN ENERGY SERVER SYSTEM

Table with specifications for ES5-VATAAN ENERGY SERVER SYSTEM including Gross Output Power (157.5 kW), Net Output Power (150 kW), Voltage (480 VAC), etc.

FUEL REQUIREMENTS

Table with fuel requirements including Connection (2" FLANGE), Fuel Type (NATURAL GAS), Pressure (15 (+3/-5) psig), etc.

WATER REQUIREMENTS

Table with water requirements including Connection (1/2" MNPT), Water Type (MUNICIPAL GRADE), Flow (FLOW - STARTUP), etc.



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



Table with revision history: REVISION HISTORY, REV, REVISION ISSUE, DATE. Includes entries for initial release, permit, and revised per AHJ and utility comments.

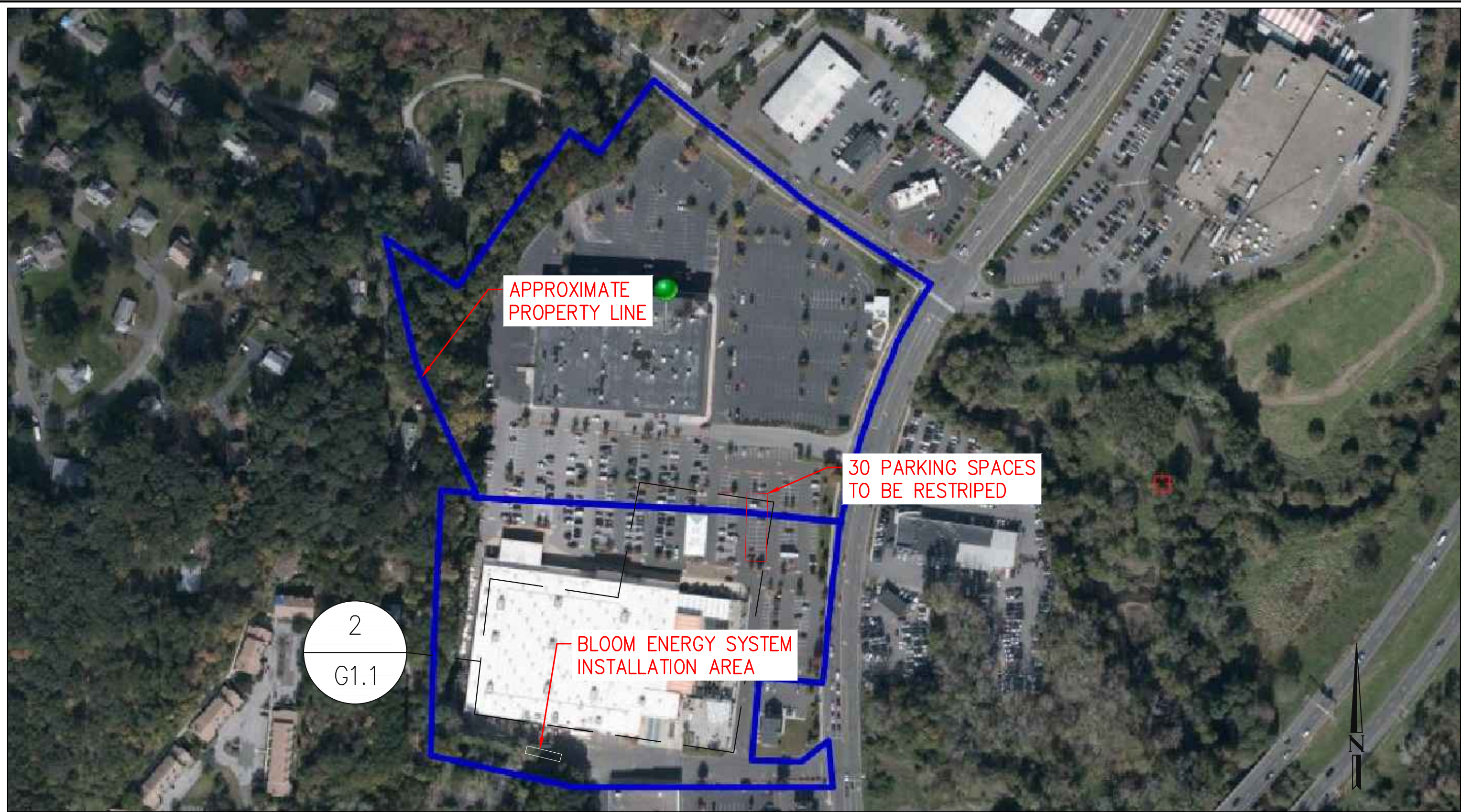
Table with design and review information: DESIGNED BY, DRAWN BY, REVIEWED BY, APPROVED BY.

SHEET TITLE
GENERAL CONSTRUCTION NOTES

DRAWING NUMBER
G0.2

BLOOM DOCUMENT
DOC-1012979

THIS DRAWING IS 24" x 36" AT FULL SIZE
SITE ID: HDP207.0 SHEET 02 OF 11



AERIAL IMAGE OF OVERALL SITE

SCALE: = NTS

1
G1.1

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



OVERALL SITE PLAN

SCALE: 1" = 30'

2
G1.1

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

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REVISION HISTORY		
REV	REVISION ISSUE	DATE
0A	INITIAL RELEASE	10/05/2020
0B	FOR PERMIT	03/22/2021
0C	REVISED PER AHJ AND UTILITY COMMENTS	07/19/2021

DESIGNED BY KATE TAYLOR	REVIEWED BY RAJ RAGBOIRA
DRAWN BY BASAVARAJ BENAKANAHALLI	APPROVED BY CARSON TURNER

SHEET TITLE
OVERALL SITE PLAN

DRAWING NUMBER
G1.1

BLOOM DOCUMENT
DOC-1012979

THIS DRAWING IS 24" X 36" AT FULL SIZE
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FOR REFERENCE ONLY

CUSTOMER SITE
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REVISION HISTORY		
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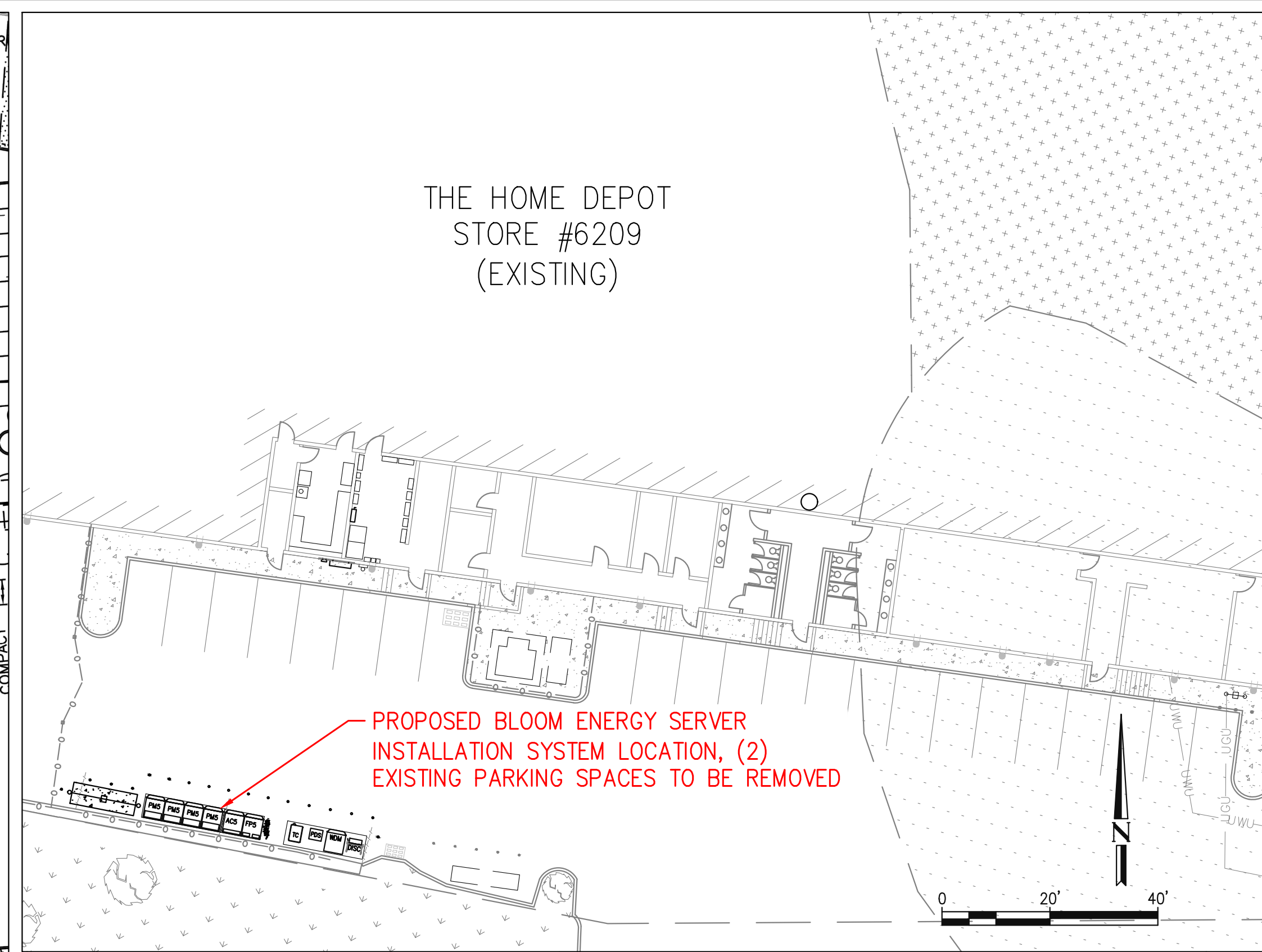
DESIGNED BY KATE TAYLOR	REVIEWED BY RAJ RAGBOIRA
DRAWN BY BASAVARAJ BENAKANAHALLI	APPROVED BY CARSON TURNER

SHEET TITLE
PARKING REMOVAL REPLACEMENT PLAN

DRAWING NUMBER
G1.2

BLOOM DOCUMENT
DOC-1012979

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SITE ID: HDP207.0 SHEET 04 OF 11



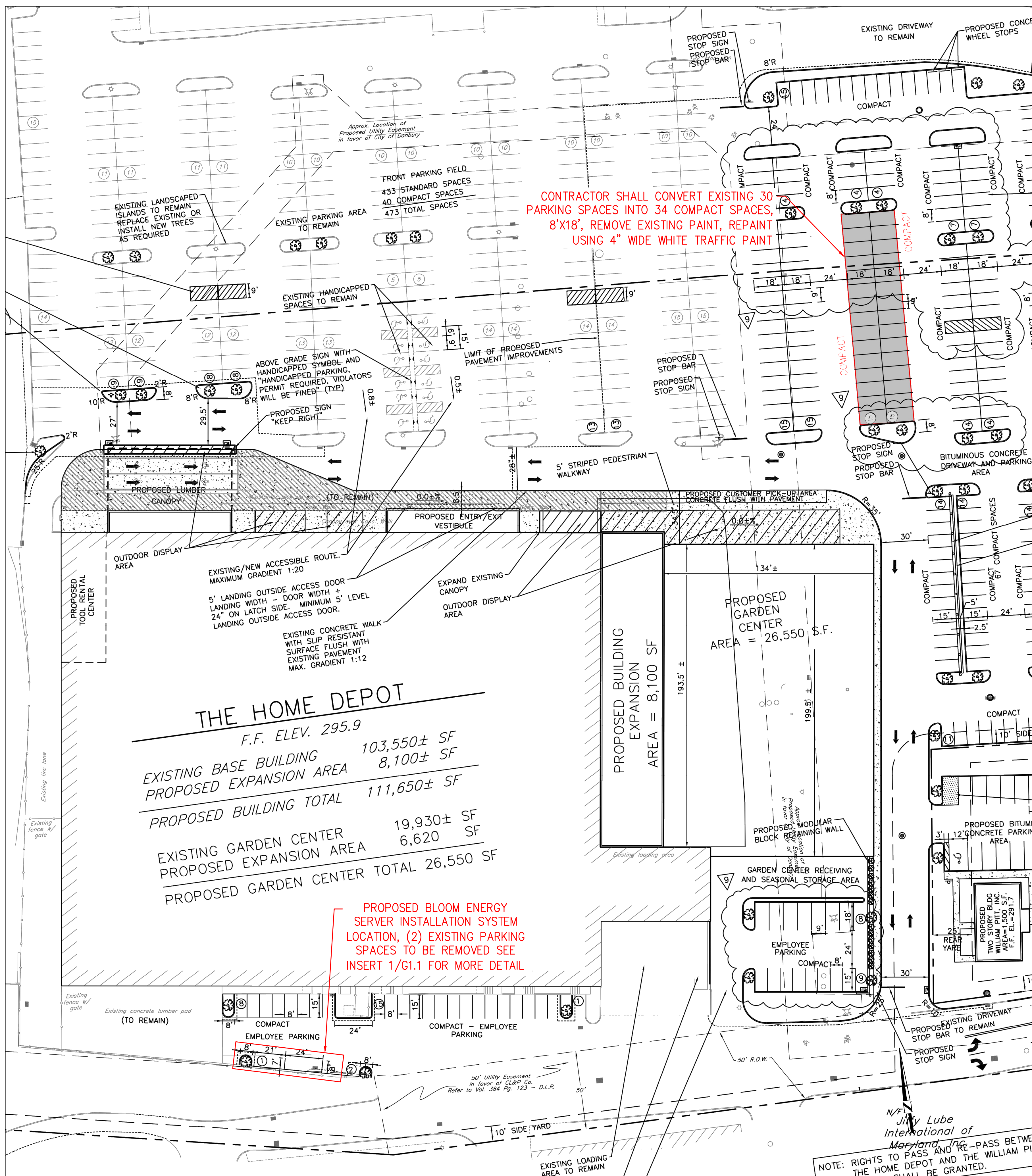
SITE PLAN

SCALE: 1" = 20'

1
G1.2

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

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	84			
TOTAL SPACES REQUIRED – THE HOME DEPOT				
EXISTING APPROVAL: RETAIL 514 OFFICE 6 WAREHOUSE 13				
PROPOSED IMPROVEMENTS: RETAIL 84				
TOTAL SPACES REQUIRED – THE HOME DEPOT				617
TOTAL SPACES REQUIRED – SITE	REQUIRED	EXISTING	PROPOSED	TOTAL
TOTAL SPACES REQUIRED – THE HOME DEPOT	617			
TOTAL SPACES REQUIRED – BOB'S/LINEN'S–N–THINGS & BANK	517			
				1134
STANDARD SPACES PROVIDED – 9' X 18'		823	-30	793
COMPACT SPACES PROVIDED – 8' X 15' *		311	-2, +34	343
TOTAL SPACES PROVIDED		1134		1136
HANDICAPPED SPACES REQUIRED: OVER 1000 SPACES, 20 PLUS 1 FOR EACH 100 SPACES HANDICAPPED SPACES PROVIDED:	22			
		23		
* 311 + 32 = 343/1136 = 30.2% <33% 1/3% ALLOWED				



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

PARKING REMOVAL REPLACEMENT PLAN

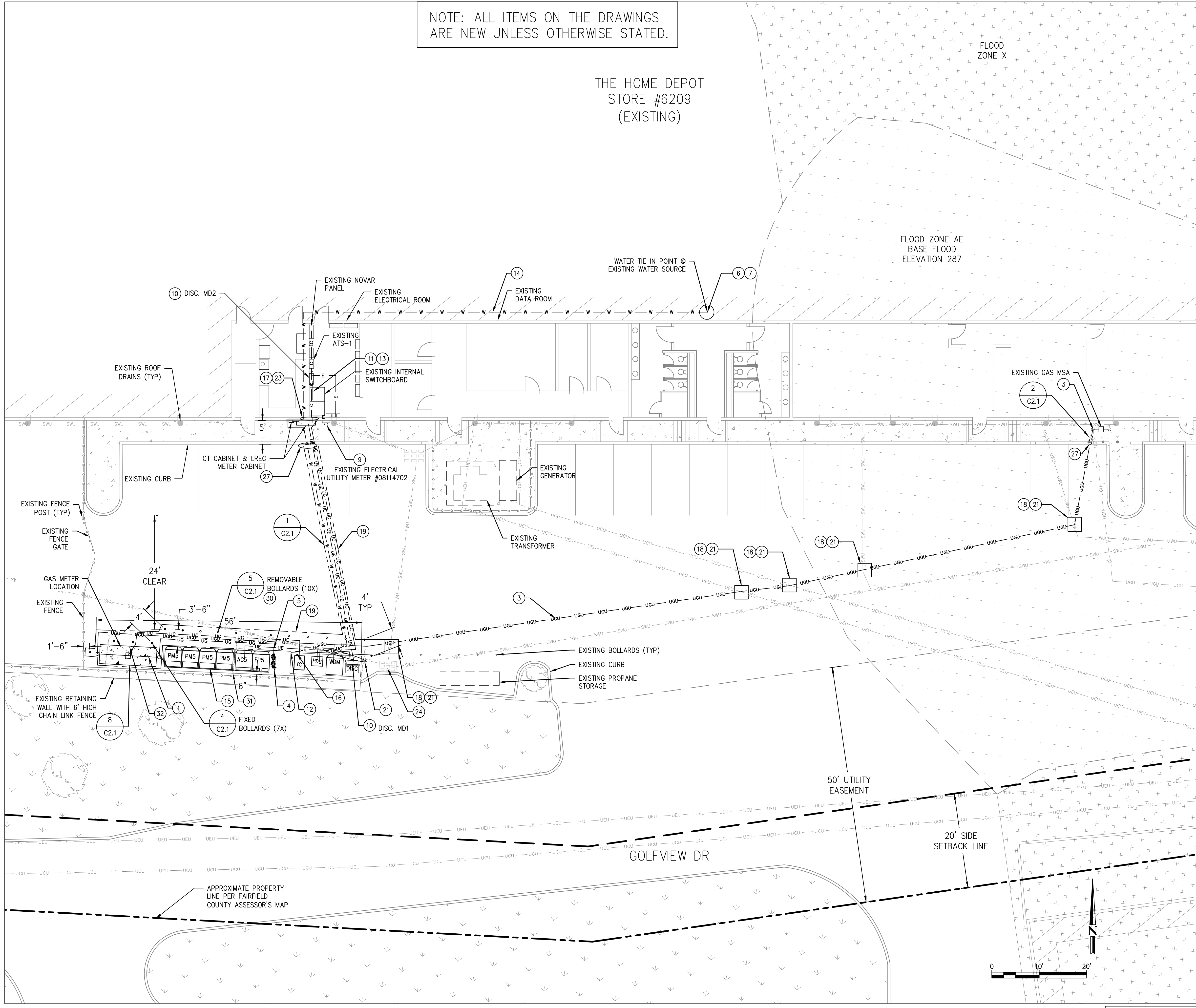
SCALE: = NTS

2
G1.2

NOTE: RIGHTS TO PASS AND RE-PASS BETWEEN THE HOME DEPOT AND THE WILLIAM PIT SHALL BE GRANTED.

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.
- 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.
- CONTRACTOR TO FOLLOW THE HOME DEPOT SPECIFICATIONS DURING CONSTRUCTION AND INSTALLATION. CONSTRUCTION WILL NOT BE PERMITTED TO COMMENCE UNTIL THE CONTRACTOR HAS THE SPECIFICATION DOCUMENT.

REFERENCE SHEET NOTES

- UTILITY PROVIDED AND INSTALLED GAS METER ASSEMBLY WITH SHUT-OFF VALVE. CONTRACTOR SHALL PROVIDE PAD PER DETAILS AS REQUIRED BY UTILITY COMPANY. COORDINATE ALL CONNECTIONS WITH GAS UTILITY.
- UTILITY COMPANY SHALL INSTALL GAS SERVICE TAP. THE GAS UTILITY SHALL TRENCH AND BACKFILL FOR THE GAS PIPING. CONTRACTOR SHALL COORDINATE WITH GAS UTILITY AS NEEDED. 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 WATER ROUTING DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL FURNISH AND INSTALL WATER PIPE. REFER TO WATER ROUTING DIAGRAM 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.
- MOUNT NEW CONDUIT/PIPE TO CEILING. COORDINATE EXACT ROUTING WITH CUSTOMER REPRESENTATIVE IN THE FIELD.
- 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.
- THE GAS UTILITY 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 POT HOLE AT ALL LOCATIONS WHERE HDD CROSSES EXISTING UTILITIES PRIOR TO STARTING HDD OPERATIONS. PATCH BACK PIT AND SAW CUT TO MATCH EXISTING. THE GAS UTILITY SHALL TRENCH AND BACKFILL FOR THE GAS PIPING AS REQUIRED. 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. UTILITY UNDERGROUND WORK REQUIRING OPENINGS IN DRIVE AISLE SHALL BE DONE AFTER DELIVERY HOURS. DURING CONSTRUCTION, ONE LANE OF TRAFFIC (15' MINIMUM) SHALL BE PROVIDED WITH BARRICADES BEFORE DELIVERY HOURS WITH APPROVAL FROM THE STORE MANAGER.
- PROTECT EXISTING UNDERGROUND UTILITY LINES FROM DAMAGE WHEN CROSSING WITH 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.
- CONTRACTOR SHALL FURNISH AND INSTALL DANDY SACK OR AN APPROVED EQUAL WITH OUTFLOW PORTS AT STORM DRAIN INLET. REFER TO STORM DRAIN PROTECTION 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 CLOSER THAN 4.5 FEET TO FRONT 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 CENTER UNLESS OTHERWISE NOTED ON PLANS.
- EXISTING PARKING SPACES (2X) TO BE REMOVED, SEE SHEET G1.2 FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT AND CABLE FROM GAS MSA TO TELEMETRY CABINET FOR GAS UTILITY COMMUNICATION FOR UTILITY BILLING. REFER TO COMMUNICATION RISER DIAGRAM FOR CONNECTION REQUIREMENTS.

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REVISION HISTORY		
REV	REVISION ISSUE	DATE
0A	INITIAL RELEASE	10/05/2020
0B	FOR PERMIT	03/22/2021
0C	REVISED PER AHJ AND UTILITY COMMENTS	07/19/2021

DESIGNED BY KATE TAYLOR	REVIEWED BY RAJ RAGBOIRA
DRAWN BY BASAVARAJ BENAKANAHALLI	APPROVED BY CARSON TURNER

SHEET TITLE
DETAILED SITE PLAN

DRAWING NUMBER
C1.1

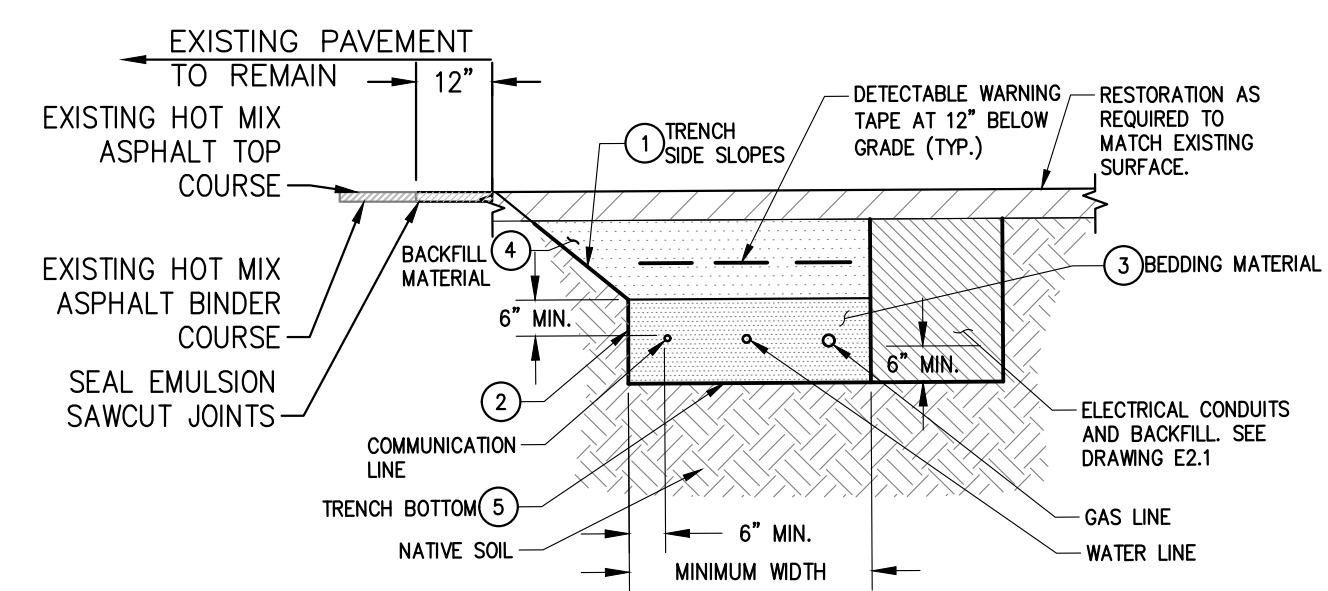
BLOOM DOCUMENT
DOC-1012979

THIS DRAWING IS 24" X 36" AT FULL SIZE
SITE ID: HDP207.0 SHEET 05 OF 11

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

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 DRAWINGS. CONTRACTOR TO 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.



MINIMUM BURIAL DEPTHS AND CLEARANCES TABLE					
UTILITY	MINIMUM BURIAL DEPTH	MINIMUM HORIZONTAL DISTANCE TO LIKE UTILITY	MINIMUM HORIZONTAL DISTANCE TO DIFFERING UTILITY	MINIMUM VERTICAL DISTANCE TO LIKE UTILITY	VERTICAL DISTANCE TO DIFFERING UTILITY
COMMUNICATION	24"	6"	12"	3"	12"
GAS	24"	6"	12"	6"	12"
WATER	54"	6"	12"	6"	12"

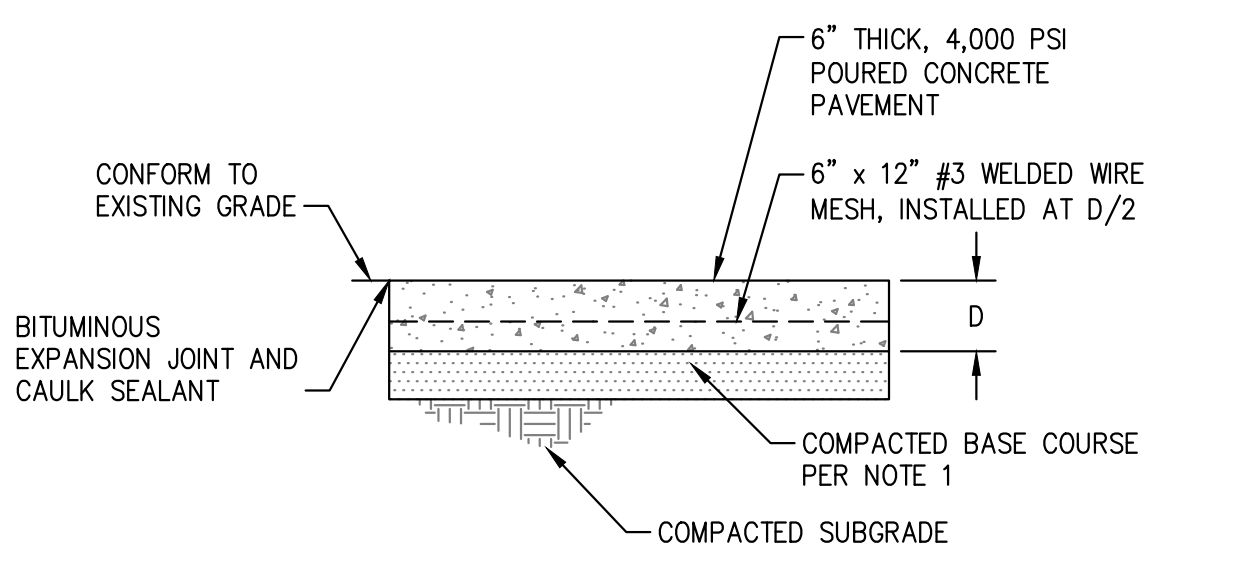
DETAIL NOTES:

- TRENCH SHALL BE EXCAVATED AND PROTECTED PER OSHA STANDARD 1926 SUBPART P. OPEN TRENCHES SHALL NOT EXCEED OSHA MAXIMUM SIDE SLOPES. CONTRACTOR TO SHORE AND PROTECT ALL VERTICAL EXCAVATIONS AS REQUIRED BY OSHA. TRENCH WALLS SHALL BE VERTICAL FROM BOTTOM OF EXCAVATION TO TOP OF PIPE OR CONDUIT.
- TRENCH WALLS SHALL BE VERTICAL FROM BOTTOM OF EXCAVATION TO TOP OF PIPE OR CONDUIT BACKFILL.
- BEDDING MATERIALS SHALL BE PLACED IN 6" MAXIMUM LIFTS AND MATCH ADJACENT DUCT BANK BEDDING MATERIALS WHERE APPLICABLE. ACCEPTABLE BEDDING GRADATIONS ARE:
 - 3/4" MAXIMUM AGGREGATE BASE.
 - ASTM C-33-FINE CONCRETE AGGREGATE (WELL GRADED SAND).
 - ASTM C-33-GRADATION NO. 67 OR NO. 7.
 - GRADATIONS SIMILAR TO WELL GRADED FINE ROAD BASE MATERIAL, ASTM D-1241 GRADATION C AND D.
- BACKFILL MATERIALS SHALL BE 3/4" MAX AGGREGATE BASE MATERIAL, ASTM C33 SAND, OR NATIVE SOIL, AS NOTED PLACE BACKFILL IN 6" MAX LIFTS AND TO BE COMPACTED TO 95% RELATIVE COMPACTION AT ± 2% OPTIMAL MOISTURE CONTENT PER ASTM D1557. SAND LAYER BELOW CONDUIT SHALL BE A MINIMUM DEPTH OF 3".
- IF THE BOTTOM OF THE TRENCH IS SOFT AND COMPACTION CANNOT BE ACHIEVED, CONTRACTOR TO CONTACT GEOTECHNICAL ENGINEER FOR SUBGRADE PREPARATION RECOMMENDATIONS.
- CONTRACTOR SHALL BE INSTALLED TO A DEPTH OF 36" OR AS REQUIRED TO SATISFY LOCAL BUILDING CODE CONSIDERATIONS FOR FROST DEPTH. CONTRACTOR SHALL INSTALL TO THE DEPTH OF WHICHEVER VALUE IS GREATER.
- CONTRACTOR SHALL HIRE A THIRD PARTY SOILS INSPECTION AND TESTING AGENCY TO ASSURE COMPLIANCE OF MATERIALS AND PLACEMENT PROCEDURES WITH DESIGN DRAWINGS, SPECIFICATIONS, AND LOCAL CODES. WORK SHALL INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:
 - PHOTOGRAPH EXCAVATION BOTTOM
 - VERIFY SOIL SUITABILITY
 - VERIFY AND REPORT COMPACTION
 - SUBMIT INSPECTION REPORTS DATED AND SIGNED BY TESTING AGENCY
- TESTING SERVICE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:
 - DAILY RECORDS AND REPORT
 - TESTING RECORDS AND DATA SHEETS
 - PHOTOGRAPHIC RECORDS
 - FINAL REPORT
- ALL RECORDS SHALL AT A MINIMUM BEAR THE PROJECT NAME, LOCATION, DATE, WRITTEN DESCRIPTION OF VISUAL OBSERVATIONS, AND SIGNATURE OF PREPARED OR DESIGNATED AUTHORITY.
- ALL CLEARANCES ARE EDGE TO EDGE AND NOT CENTER TO CENTER.
- ALL UNDERGROUND UTILITIES SHALL BE INSTALLED PER FEDERAL, STATE, AND LOCAL CODES. ANY DEVIATION FROM HORIZONTAL OR VERTICAL UTILITY SEPARATION DISTANCES TO ACCOMMODATE FIELD CONDITIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO BLOOM ENERGY FOR APPROVAL PRIOR TO UTILITY PLACEMENT.

UTILITY TRENCH EXCAVATION SPACING & BACKFILL DETAIL

SCALE: NTS

1
C2.1



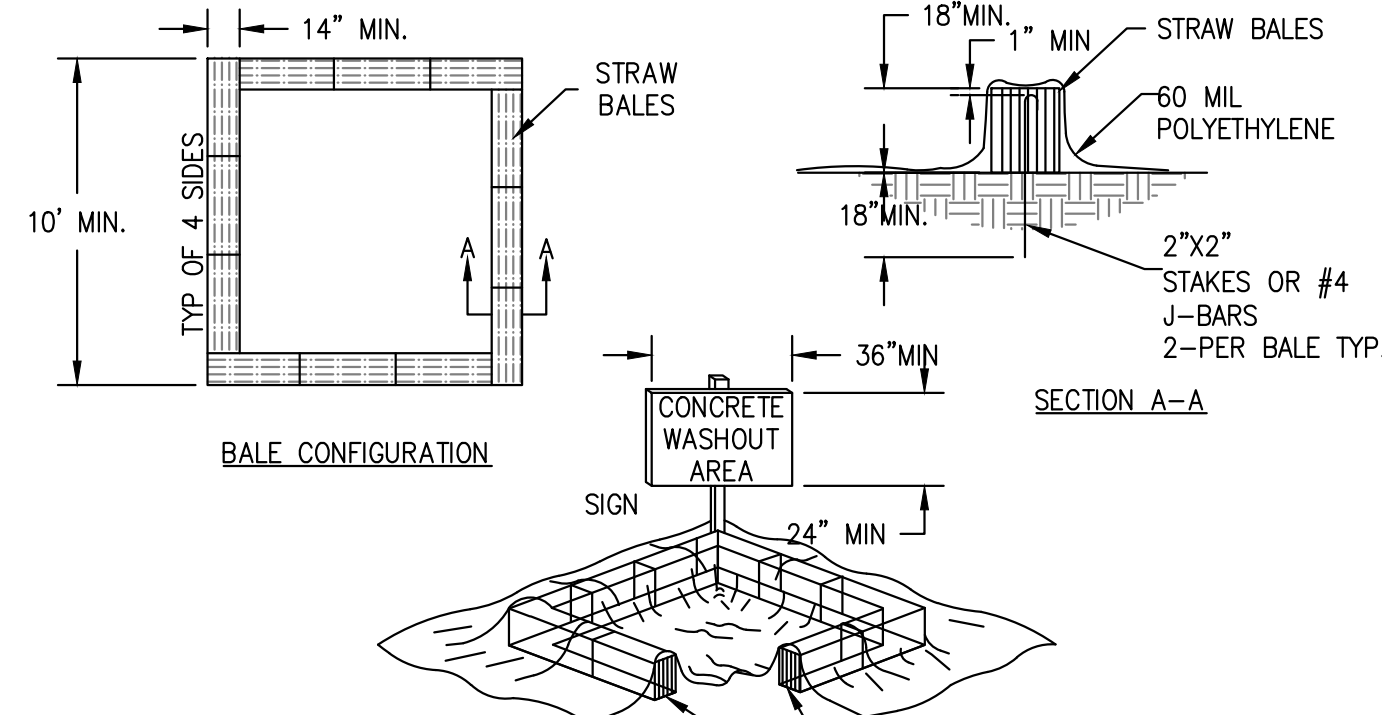
DETAIL NOTES:

- REFER TO UNDERGROUND/TRENCH CONDUIT AND PIPING DETAIL OR ENERGY SERVER AND ANCILLARY PRECAST PAD GRADING FOR COMPACTED BASE COURSE REQUIREMENTS.

CONCRETE RESTORATION

SCALE: NTS

2
C2.1



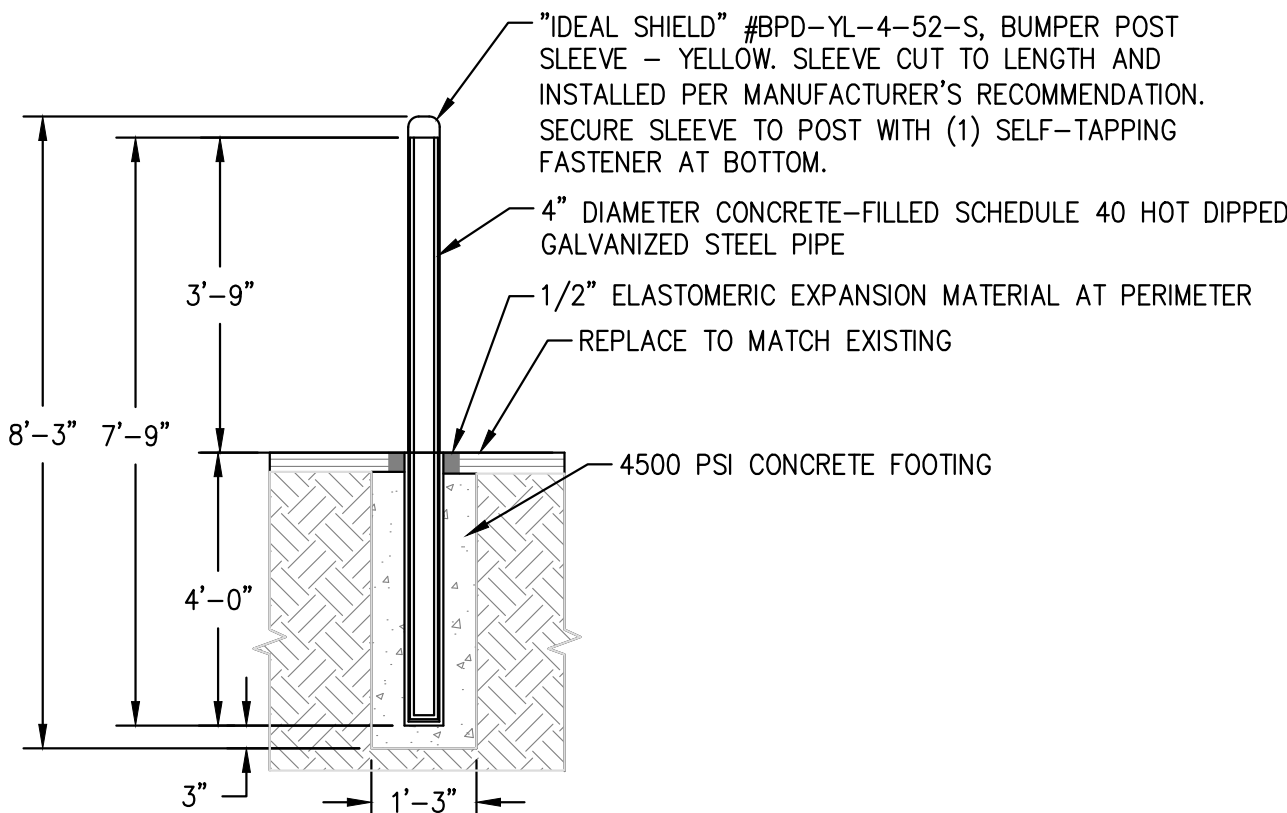
DETAIL NOTES:

- FACE SIGN TOWARDS NEAREST STREET OR ACCESS POINT.
- CONCRETE WASHOUT SHALL BE LOCATED BEHIND THE CURB AND 50 FT. MINIMUM FROM DRAINAGE INLETS OR WATERCOURSES AND IN A LOCATION THAT IS EASILY ACCESSIBLE BY CONCRETE TRUCKS. CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
- CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
- WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL. THIS INCLUDES REPLACEMENT OF THE 60 MIL POLYETHYLENE SHEETING.
- CONTRACTOR SHALL REMOVE ACCUMULATION OF SAND AND AGGREGATE AT LEAST WEEKLY AND DISPOSE OF PROPERLY.

CONCRETE WASHOUT

SCALE: NTS

3
C2.1



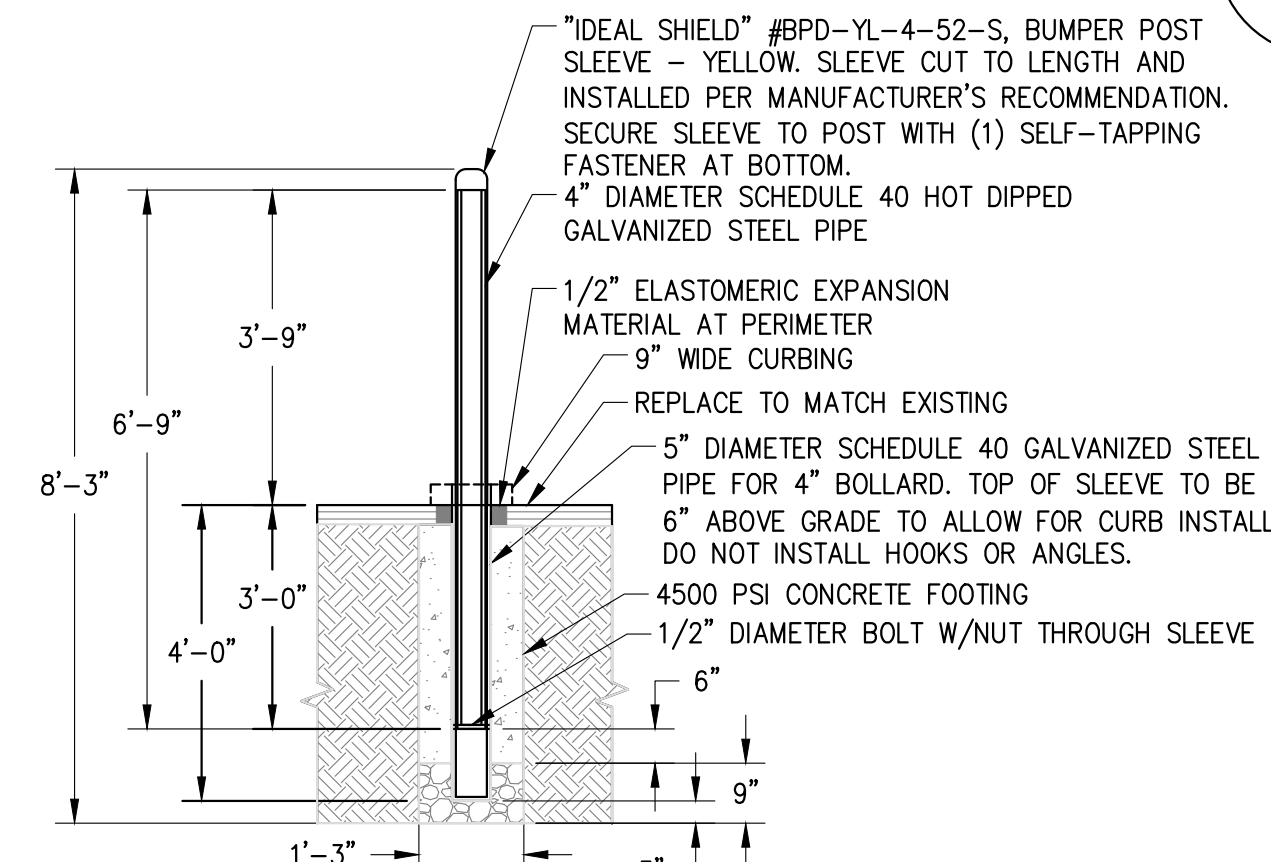
DETAIL NOTE:

- CONCRETE FOUNDATIONS ARE MINIMUM REQUIREMENTS. LOCAL BUILDING CODES OR FROST LINE MAY REQUIRE GREATER DEPTH.

BOLLARD - FIXED

SCALE: NTS

4
C2.1



DETAIL NOTE:

- CONCRETE FOUNDATIONS ARE MINIMUM REQUIREMENTS. LOCAL BUILDING CODES OR FROST LINE MAY REQUIRE GREATER DEPTH.

BOLLARD - REMOVABLE

SCALE: NTS

5
C2.1



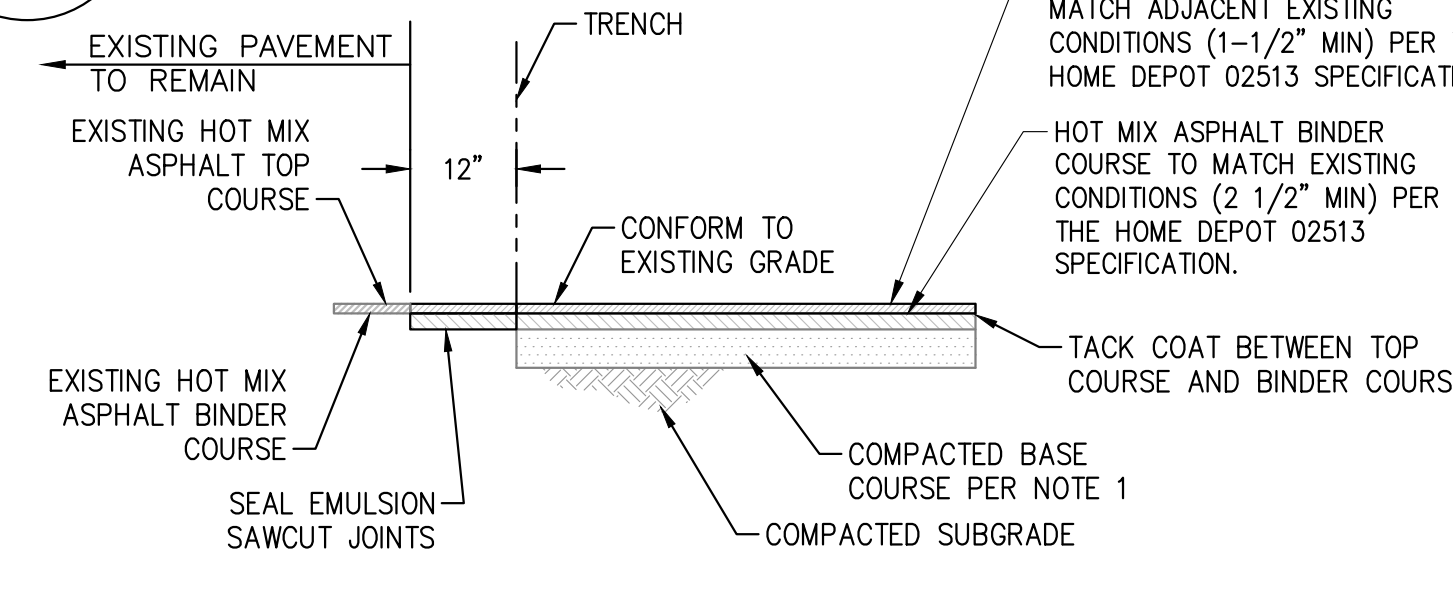
DETAIL NOTES:

- THE SPECIFIED INLET PROTECTION CAN BE SUPPLIED IN A VARIETY OF SIZES. CONTRACTOR TO SELECT THE APPROPRIATE DRAINAGE INLET PROTECTION AS REQUIRED.

CURB DRAIN PROTECTION

SCALE: NTS

4
C2.2



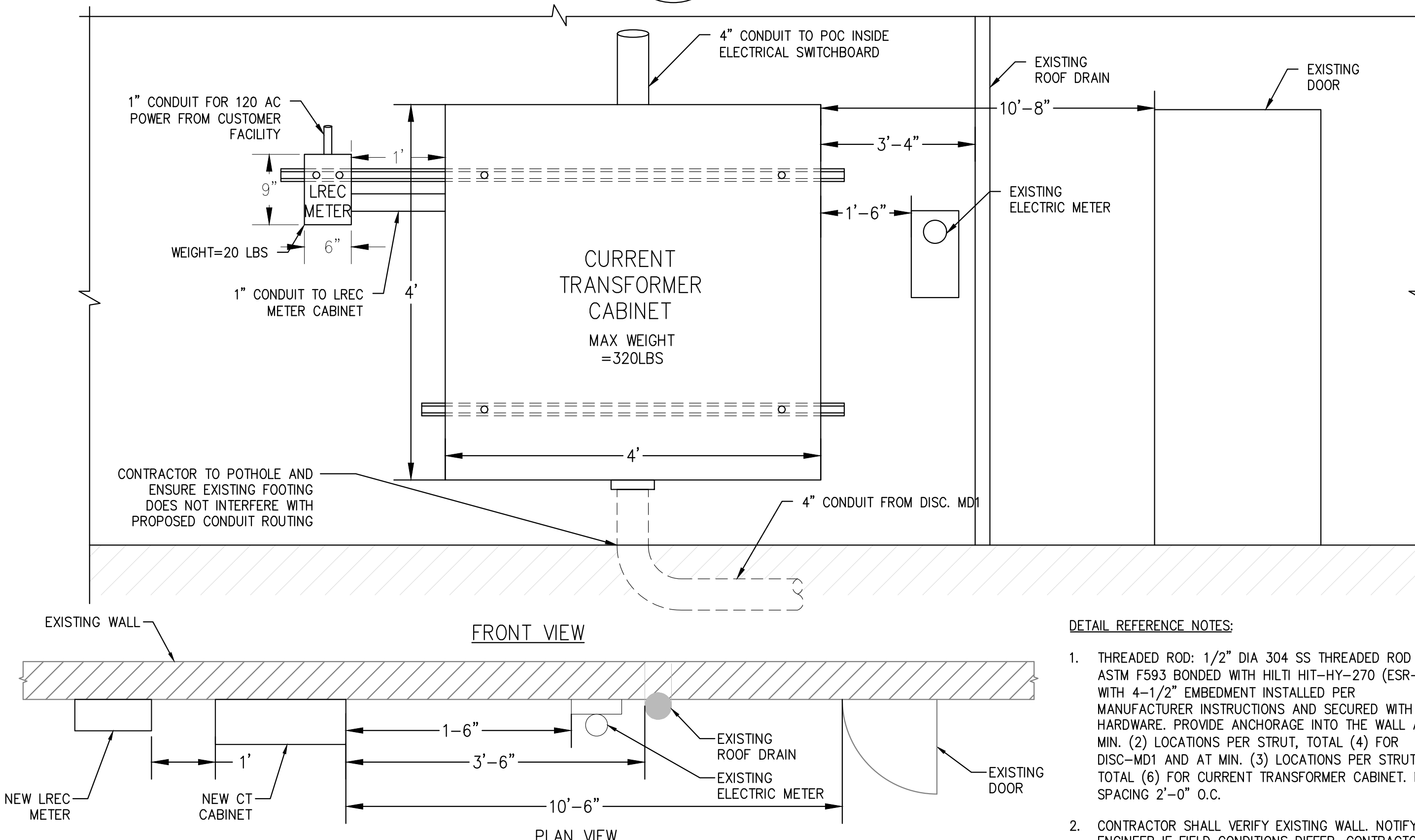
DETAIL NOTES:

- BASE COURSE SHALL BE CLASS 2 AGGREGATE BASE (3/4" MAX) COMPACTED TO 95% RELATIVE COMPACTION. THICKNESS SHALL MATCH EXISTING THICKNESS OR 6", WHICHEVER IS GREATER.
- MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH SPECIFICATION SET FORTH BY NATIONAL, STATE, AND LOCAL CODES AND AUTHORITIES.

ASPHALT RESTORATION

SCALE: NTS

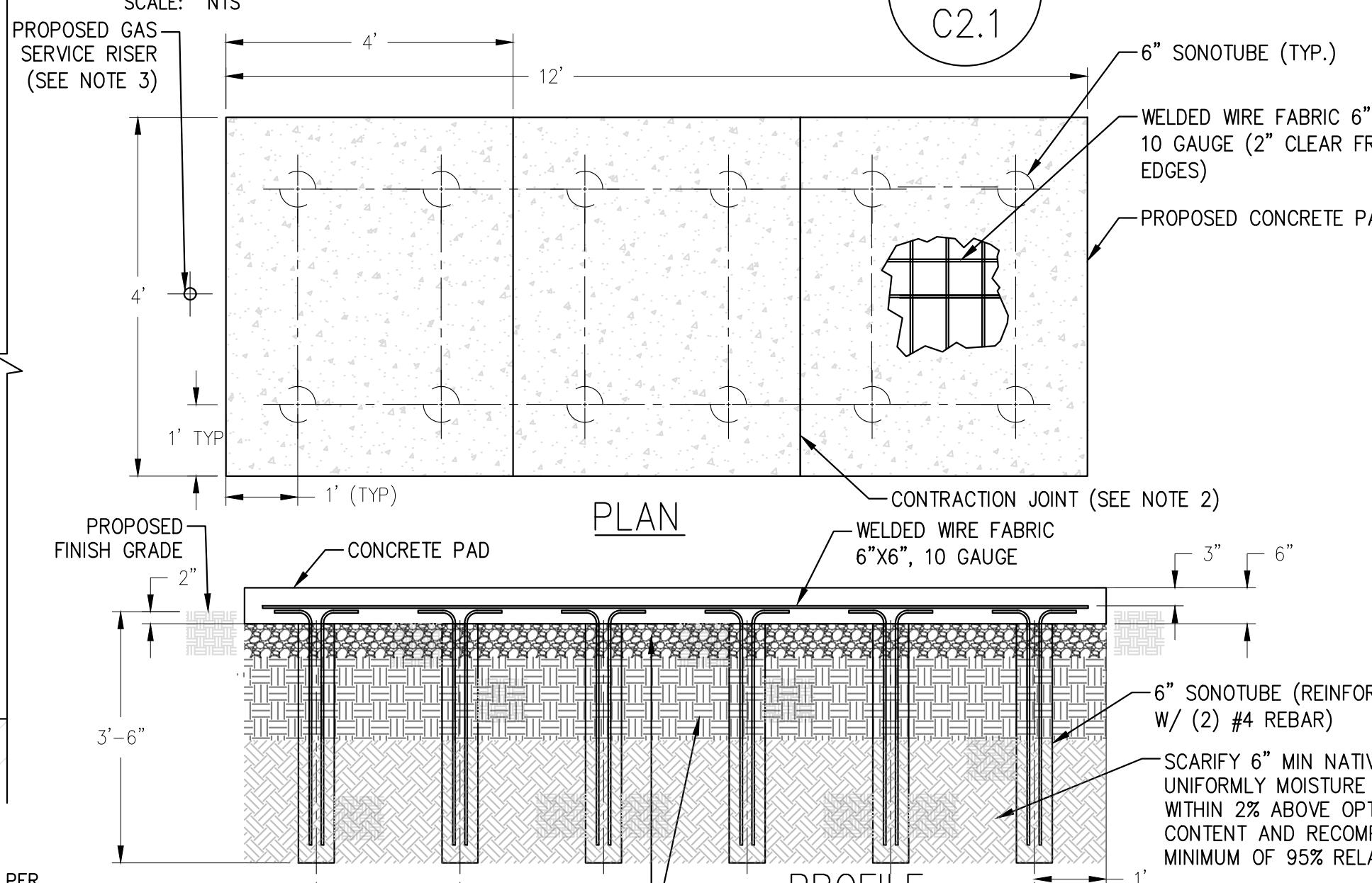
6
C2.1



CT CABINET AND LREC METER WALL MOUNTING DETAIL

SCALE: NTS

7
C2.1



NOTES:

- CONTRACTOR SHALL INSTALL PAD PER UTILITY REQUIREMENTS.
- CONCRETE TO BE MINIMUM OF 4500 PSI STRENGTH.
- CONTRACTOR SHALL INSTALL CONTRACTION JOINTS EVERY 4' WITH A DEPTH OF 3/16".
- CONTRACTOR SHALL VERIFY LOCATION OF CONCRETE PAD WITH CUSTOMER AND BLOOM ENERGY PRIOR TO INSTALLATION.
- ASSUME MINIMUM SOIL STRENGTH PARAMETERS (1500 PSF) USED IN LIEU OF GEOTECHNICAL INVESTIGATION.
- CONTRACTOR SHALL STOP WORK IMMEDIATELY AND CONTACT THE ENGINEER OF RECORD IF ANY OF THE FOLLOWING CONDITIONS ARE PRESENT:
 - CONTAMINATED SOIL INDICATED BY ODOR, DARK SOIL, OR THE PRESENCE OF TAR LIKE SUBSTANCES;
 - INDICATIONS THAT THE WATER TABLE IS WITHIN 5' OF THE SOIL SURFACE.

CONCRETE GAS METER PAD DETAIL

SCALE: NTS

8
C2.1

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CUSTOMER SITE

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STORE #6209
114 FEDERAL ROAD
DANBURY, CT 06811

REVISION HISTORY		
REV	REVISION ISSUE	DATE
0A	INITIAL RELEASE	10/05/2020
0B	FOR PERMIT	03/22/2021
0C	REVISED PER AHJ AND UTILITY COMMENTS	07/19/2021

DESIGNED BY KATE TAYLOR	REVIEWED BY RAJ RAGBOIRA
DRAWN BY BASAVARAJ BENAKANAHALLI	APPROVED BY CARSON TURNER

SHEET TITLE

DETAILS SHEET-1

DRAWING NUMBER

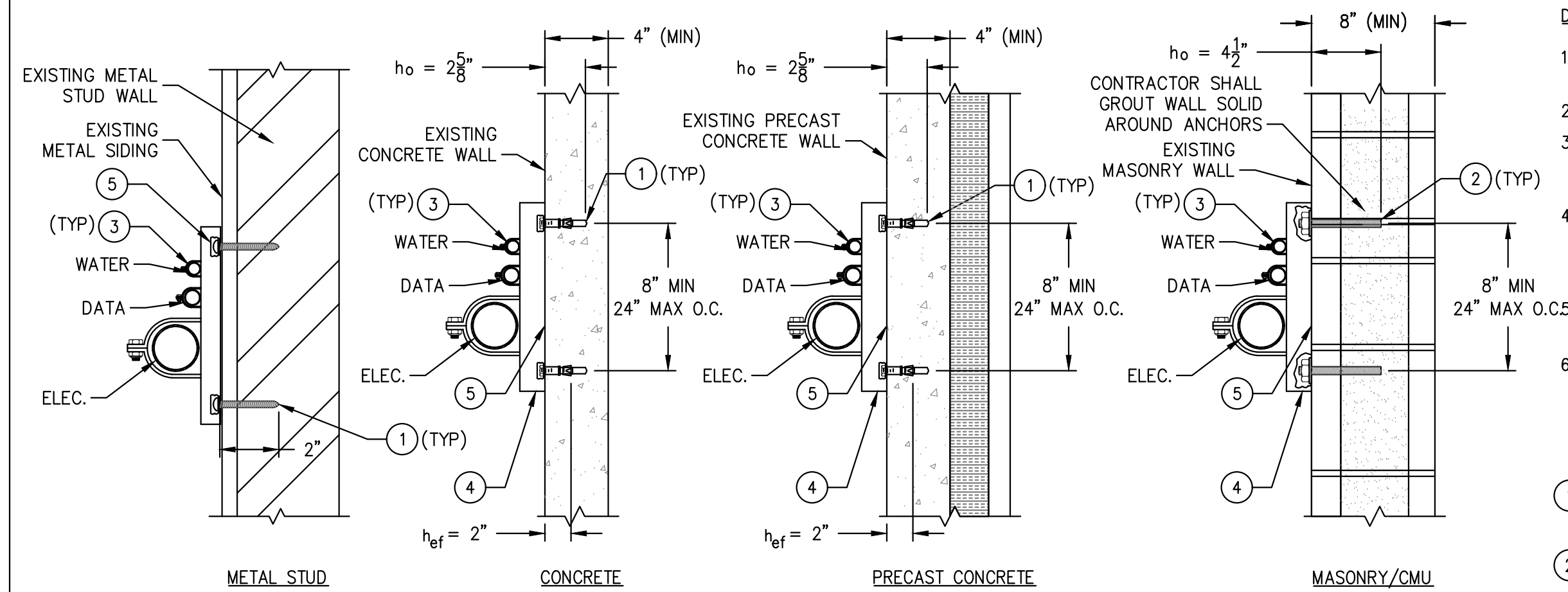
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BLOOM DOCUMENT

DOC-1012979

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SITE ID: HDP207.0 SHEET 06 OF 11

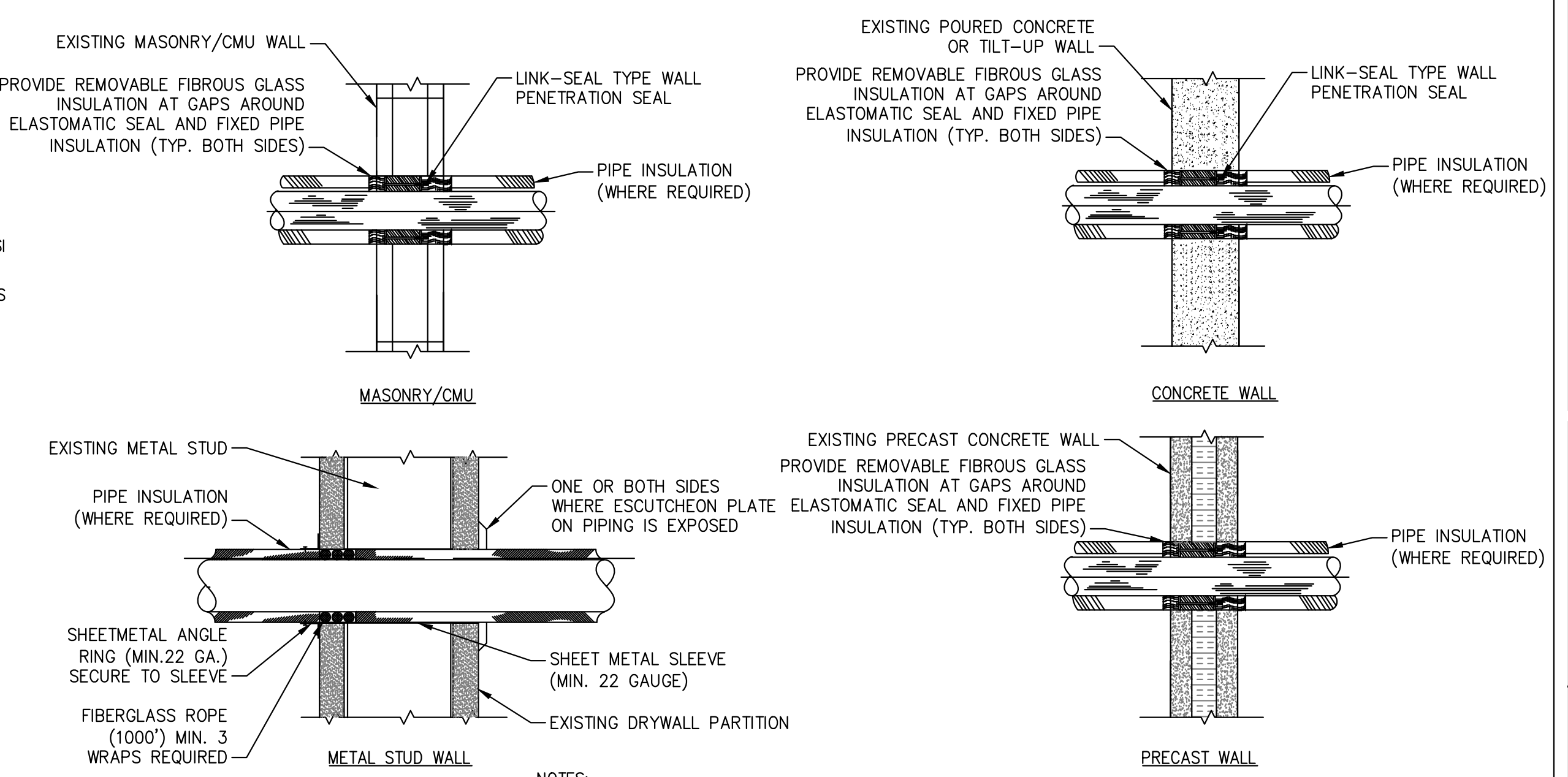


TYPICAL CONDUIT/PIPE WALL MOUNTING DETAIL

SCALE: NTS

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C2.2

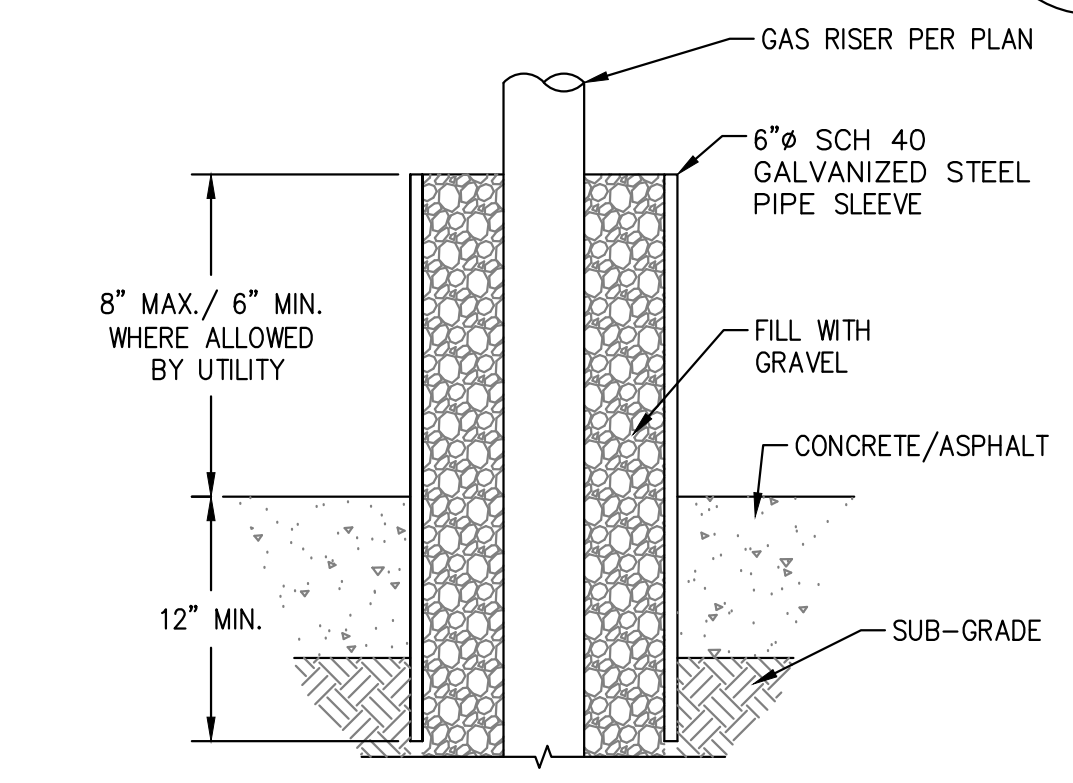
- DETAIL NOTES:**
- 10'-0" MAX SPACING BETWEEN MOUNTS OR PER CONDUIT/PIPE MANUFACTURER RECOMMENDATION.
 - SPACE ALL CONDUITS/PIPES AT 1" MIN BETWEEN ITEMS.
 - CONTRACTOR SHALL VERIFY MINIMUM THICKNESS OF PANEL FACE SHELL IS AS SHOWN. IF MINIMUM IS NOT MET, CONSULT ENGINEER OF RECORD (EOR) FOR ALTERNATE ANCHOR.
 - CONTRACTOR SHALL VERIFY SOLID GROUTED MASONRY WALL. IF THE WALL IS NOT SOLID GROUTED, CONTRACTOR SHALL GROUT WALL SOLID MINIMUM 12" AROUND ANCHORS WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI PER ASTM C476.
 - WHERE BENDING IS REQUIRED, PROVIDE ADDITIONAL MOUNTS ON BOTH ENDS OF THE BEND WITHIN 3'-0".
 - MAXIMUM (4) 4" ELECTRICAL CONDUITS PER MOUNT OR STRUT SHALL BE 4'-0" MAX LONG. CONCRETE/MASONRY ANCHOR SHALL BE REQUIRED AT 24" O.C. MAX. IF MORE ELECTRICAL CONDUITS ARE REQUIRED, CONTACT EOR FOR ADDITIONAL WALL MOUNTING REQUIREMENTS.
- DETAIL REFERENCE NOTES:**
- BOLT: HILTI 1/2" KWIK BOLT 'TZ' (PER ESR-1917 & RR2570) WITH 2-5/8" EMBEDMENT OR EQUIVALENT IN WALL, INSTALLED PER MANUFACTURER SPECIFICATIONS.
 - THREADED ROD: 1/2" 304 SS THREADED ROD PER ASTM F593 BONDED WITH HILTI HIT-HY-270 (ESR-4143) WITH 4-1/2" EMBEDMENT INSTALLED PER MANUFACTURER INSTRUCTIONS AND SECURED WITH SS HARDWARE.
 - 1-5/8" UNISTRUT OR EQUIVALENT CLAMP SIZED FOR THE WATER PIPE ("CUSH-A-CLAMP" PN 2028), PIPE OR RIGID CONDUIT (PN P1117) OR THIN WALL (EMT) CONDUIT (PN P1430) AS INDICATED.
 - 1-5/8" UNISTRUT OR EQUIVALENT STRUT MEMBER, 1-5/8" TALL (PN P1000) WITH 'HS' OR 'T' HOLE PATTERN.
 - CONTRACTOR SHALL PROVIDE SMOOTH WALL SURFACE FOR STRUT MOUNTING. APPLY THIN LAYER OF SIKA REPAIR MORTAR TO PROVIDE FLUSH SURFACE FOR CHANNEL CONNECTION.



WALL PENETRATION

SCALE: NTS

2
C2.2



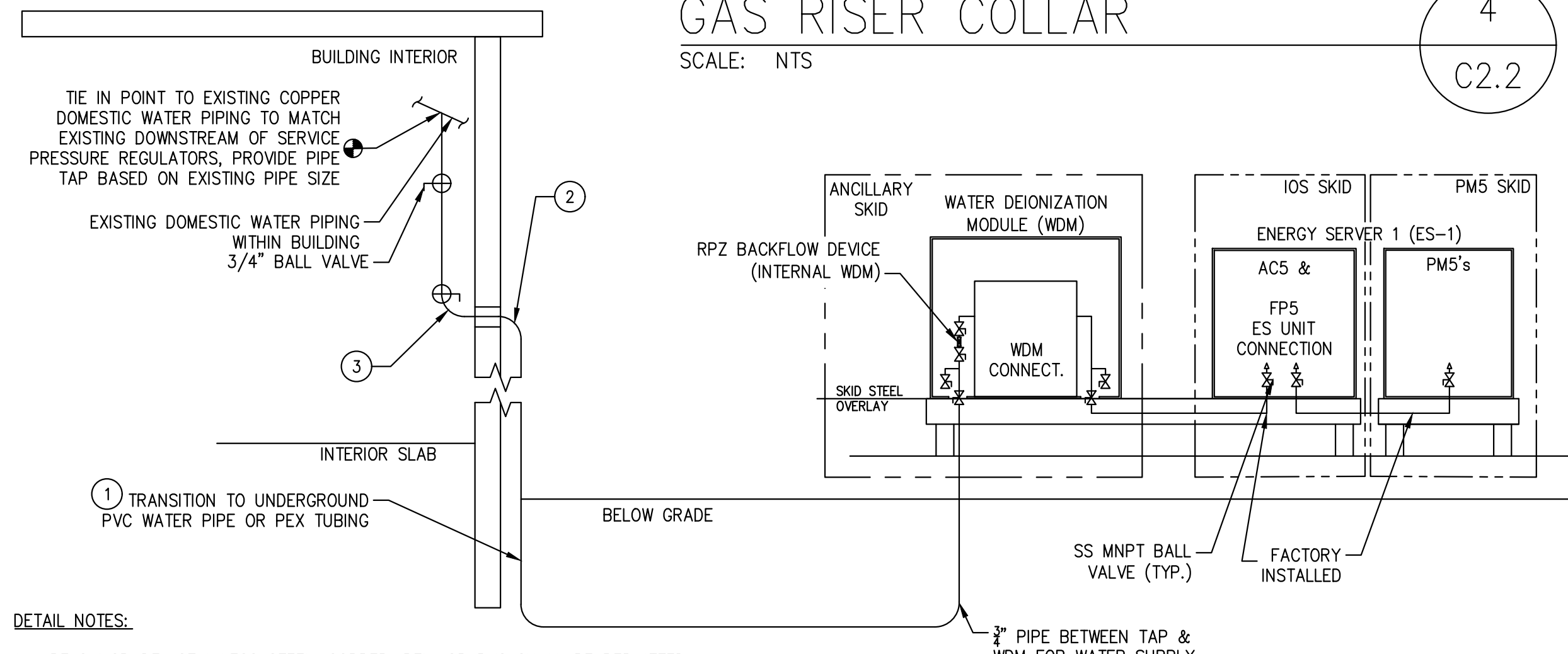
DETAIL NOTES:

- GAS RISER COLLAR SHALL BE REQUIRED AT ALL LOCATIONS WHERE NEW VERTICAL GAS PIPING PENETRATES NEW OR EXISTING CONCRETE OR ASPHALT.

GAS RISER COLLAR

SCALE: NTS

4
C2.2



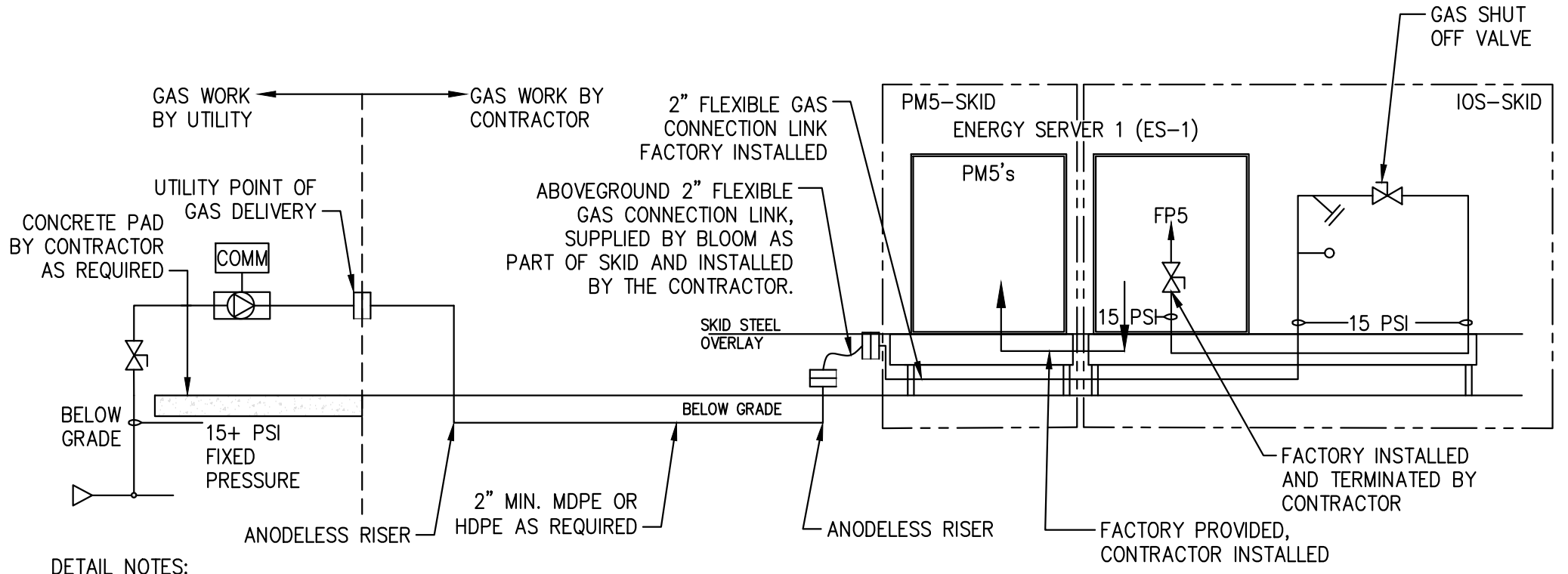
DETAIL NOTES:

- BELOW GRADE: STAINLESS STEEL, COPPER, PEX, OR PVC SHALL BE PERMITTED BETWEEN FACILITY AND WDM. BETWEEN WDM AND FUEL CELL MODULES ONLY STAINLESS STEEL, PEX, AND PVC WITH STAINLESS STEEL FITTINGS SHALL BE PERMITTED.
- PROVIDE INSULATION FOR ALL WATER PIPES ON EXTERIOR OF BUILDING. CONTRACTOR SHALL PROVIDE HEAT TRACE FOR ALL ABOVE FROST LINE BURIED WATER PIPES. FOR STUB-UP LOCATIONS, PROVIDE ADEQUATE EXTRA LENGTH OF HEAT TRACE TO PROPERLY HEAT TRACE ANY VALVES AND OVERLAP WITH BLOOM PROVIDED HEAT TRACE INSIDE BLOOM PROVIDED EQUIPMENT. CONTRACTOR SHALL HEAT TRACE AND INSULATE PIPE FROM FULL BURIAL DEPTH THROUGH BUILDING WALL WITH RAYCHEM 38TV-CT TRACING AND 1" ARMACELL ELASTOMERIC INSULATION. CONTRACTOR SHALL INSTALL HEAT TRACE AND INSULATED PIPE WITHIN A 4" SCH. 80 PVC SLEEVE FROM FULL BURIAL DEPTH THROUGH THE BUILDING WALL AND SECURE SLEEVE TO BUILDING WALL.

WATER ROUTING DIAGRAM

SCALE: NTS

6
C2.2



DETAIL NOTES:

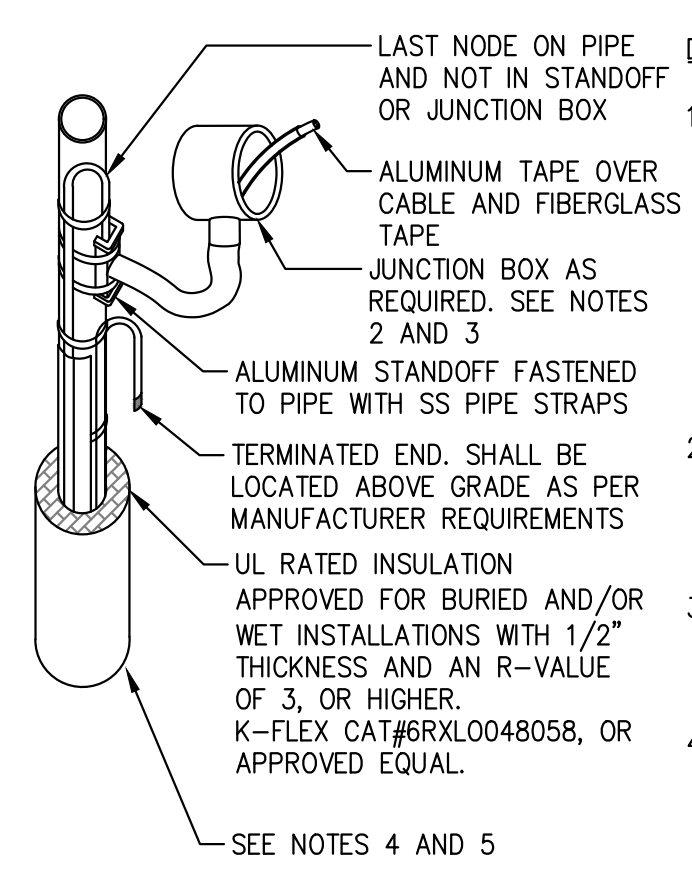
- ALL GAS PIPING IS SIZED IN ACCORDANCE WITH NATIONAL FUEL GAS CODE. IT IS THE RESPONSIBILITY OF THE PIPING CONTRACTOR TO INSTALL SAID PIPING SYSTEM IN ACCORDANCE WITH THE GAS CODE AND ACCEPTABLE PIPING PRACTICES. THIS DRAWING DOES NOT EXCUSE THE CONTRACTOR FROM INSTALLATION PER APPLICABLE BUILDING CODES OR MANUFACTURER REQUIREMENTS. IN THE EVENT OF A DISCREPANCY, CONTRACTOR SHALL NOTIFY BLOOM ENERGY.
- CONTRACTOR SHALL ENSURE ANODELESS RISERS ARE INSTALLED IN COMPLIANCE WITH THE MANUFACTURE'S REQUIRED MAXIMUM AND MINIMUM BURIAL DEPTHS.
- ANODELESS RISERS SHALL CONFORM TO ASTM D2513 AND USDOT 1921.281, 192.283, 192.375. ANODELESS RISERS SHALL BE CSA AND IAMPO/UPC LISTED.
- ALL ABOVE GROUND GAS PIPE SHALL BE SCHEDULE 40 BLACK STEEL, ASTM A53 TYPE E, GALVANIZED WITH FLANGED AND WELDED JOINTS. ABOVE GROUND PIPE SHALL BE PAINTED YELLOW. UNDERGROUND GAS PIPE SHALL BE MDPE OR HDPE.
- ALL PIPE OPERATING ABOVE 5 PSIG SHALL BE FLANGED AND WELDED.
- ALL ABOVE GROUND CONNECTIONS TO BE FLANGED AND WELDED AT COMPONENTS DOWNSTREAM OF NEW UTILITY METER/REGULATOR ASSEMBLY.
- THE USE OF NATURAL GAS AS A FUEL SYSTEM CLEANING MEDIUM DURING FUEL CELL CONSTRUCTION, INSTALLATION OR MODIFICATION IS PROHIBITED. CONTRACTOR IS PROHIBITED FROM USING PIPELINE GAS AND SHALL PURGE SYSTEM WITH NITROGEN. TESTING AND PURGING FOR NEW GAS PIPING SHALL COMPLY WITH NFPA 54 AND SHALL BE WITNESSED BY AN OSM REPRESENTATIVE.
- CONTRACTOR SHALL PROVIDE PRIVATE GPR MARK-OUT NO MORE THAN 2 WEEKS PRIOR TO GAS UTILITY INSTALLING GAS SERVICE PIPING CONTRACTOR SHALL COORDINATE TIMING WITH BLOOM ENERGY GAS UTILITY SPECIALIST.

LEGEND	
	GAS REGULATOR
	GAS METER
	SHUT OFF VALVE
	PRESSURE INDICATION
	FLANGE

GAS RISER-FIXED DELIVERY

SCALE: NTS

3
C2.2



DETAIL NOTES:

- SELF REGULATING HEAT TRACE, OUTDOOR RATED, 5 WATTS/FT., 120VAC, RAYCHEM 58TV-CT/CR OR EQUAL. HEAT TRACE SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR ON ALL EXTERIOR WATER PIPING INSTALLED ABOVE THE FROST LINE (48" DEPTH). WHERE INSTALLATIONS HAVE NEW WATER PIPING PENETRATING EXTERIOR FACILITY WALLS HEAT TRACE SHALL BE EXTENDED 18" INTO THE BUILDING. HEAT TRACE FOR BLOOM ENERGY SERVER PAD PLUMBING SHALL BE OFCI, ENSURE HEAT TRACE IS PROVIDED AT WATER JUMPER BETWEEN BLOOM ENERGY SERVER PLUMBING AND CONTRACTOR PROVIDED PLUMBING.
- JUNCTION BOX SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR AT ENDS OF HEAT TRACE LINES THAT TERMINATE AT A POWER SOURCE, COORDINATE MOUNTING REQUIREMENTS IN THE FIELD. JUNCTION BOX AT ENERGY SERVER SHALL BE OFCI AND MOUNTED WITH SELF TAPPING SCREWS.
- IN WDM THE HEAT TRACE LINE SHALL LAND DIRECTLY AT CABLE GLAND, ALLOW 10' ADDITIONAL HEAT TRACE LENGTH AT WDM INLET AND OUTLET TO COVER ALL WDM PIPING AND LENGTH TO TERMINATION AT CABLE GLAND.
- HEAT TRACE INSTALLED FROM THE FROST LINE TO 6" ABOVE GRADE SHALL BE PROVIDED WITH 4" PVC JACKET FILLED WITH 3/4" STONE FOR DRAINAGE. PVC JACKET SHALL EXTEND BEYOND HEAT TRACE TO FULL WATER PIPE BURIAL DEPTH. PVC JACKET SHALL NOT BE PROVIDED AT STUB UP TO ENERGY SERVER WATER CONNECTION. WHERE HEAT TRACE IS INSTALLED BEYOND 6" ABOVE GRADE AND EXPOSED TO THE ELEMENTS (NOT WITHIN EQUIPMENT) IT SHALL BE PROVIDED WITH ALUMINUM ROLL JACKETING FOR PROTECTION.

HEAT TRACE

SCALE: NTS

5
C2.2

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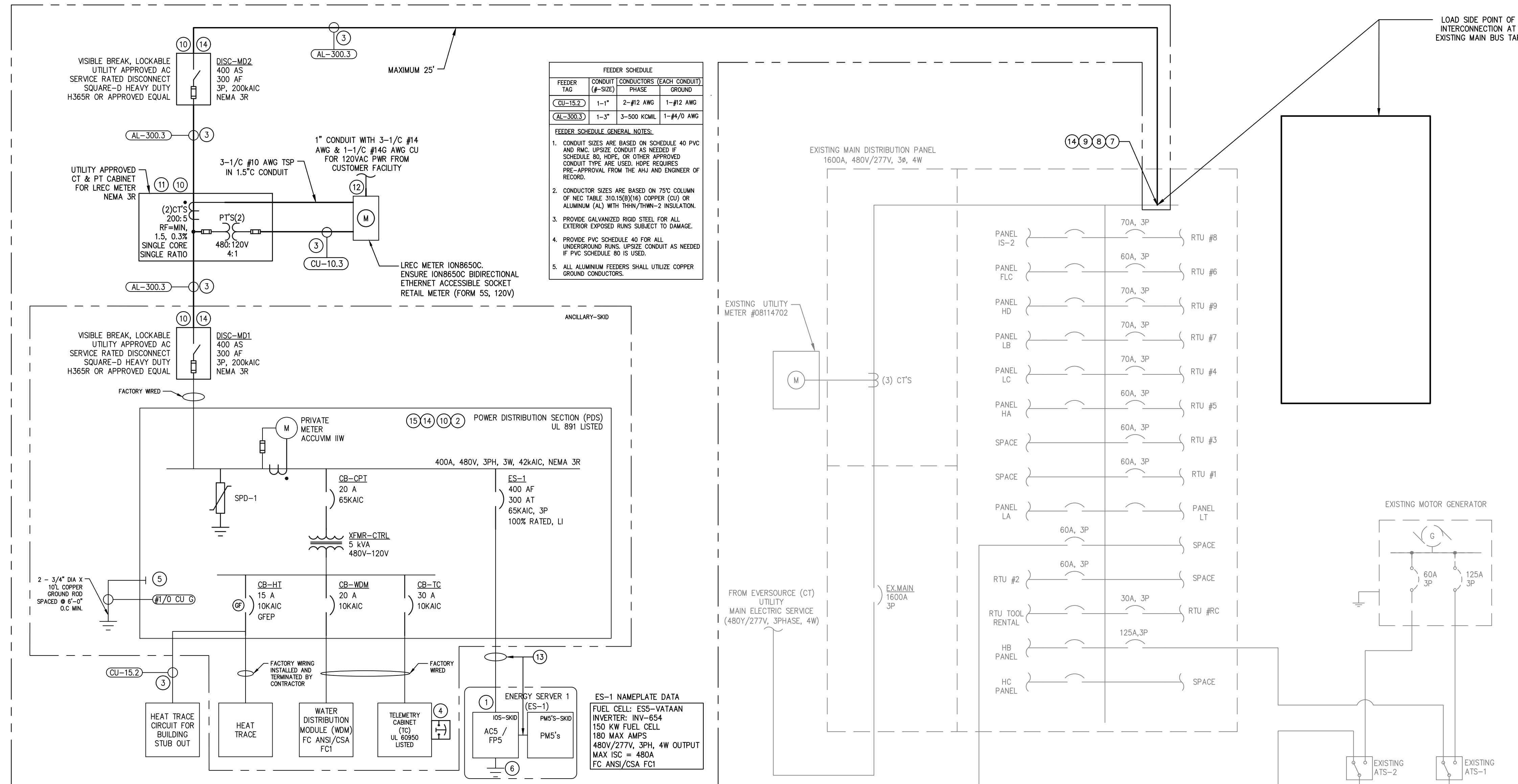
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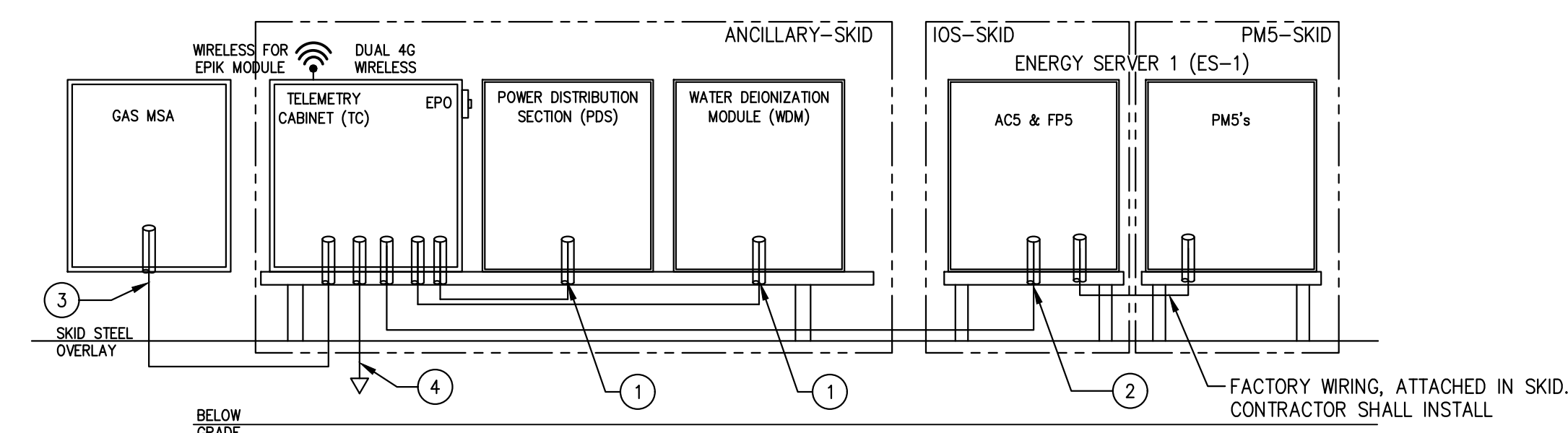
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DESIGNED BY KATE TAYLOR	REVIEWED BY RAJ RAGBOTRA
DRAWN BY BASAVARAJ BENAKANAHALLI	APPROVED BY CARSON TURNER

SHEET TITLE	
DETAILS SHEET-2	
DRAWING NUMBER	C2.2
BLOOM DOCUMENT	DOC-1012979
THIS DRAWING IS 24" X 36" AT FULL SIZE	
SITE ID: HDP207.0	SHEET 07 OF 11



SINGLE LINE DIAGRAM
SCALE: NTS



COMMUNICATIONS RISER DIAGRAM
SCALE: NTS

1
E3.1

DETAIL REFERENCE NOTES

- FACTORY INSTALLED AND TERMINATED CABLE BETWEEN TC AND OTHER EQUIPMENTS WITHIN STEEL OVERLAY.
- TWO (2) OUTDOOR RATED SHIELDED CATSE CABLES AND ONE (1) OUTDOOR RATED SHIELDED CATSE CABLE WITH RJ-45 (MALE/MALE AT BOTH ENDS) BETWEEN TC AND ES, INSTALLED ON CABLE TRAYS BETWEEN SKIDS.
- 1" CONDUIT BETWEEN UTILITY GAS MSA AND TC, WITH ONE (1) OUTDOOR RATED SHIELDED CATSE CABLE WITH RJ-45 (MALE/MALE) ENDS BETWEEN TC AND GAS MSA. THE COMMUNICATION FOR GAS MSA IS THROUGH THE BLOOM ENERGY PROVIDED, CONTRACTOR INSTALLED EPIK MODULE INSTALLED INSIDE TC.
- CONTRACTOR SHALL PROVIDE 1" CONDUIT PROVISION FROM TC TO BUILDING WALL.

DETAIL NOTES

- ALL CONDUIT AND WIRE TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
- REFER TO THE DETAILED SITE PLAN FOR EQUIPMENT LOCATIONS.
- ROUTING SHALL BE DETERMINED IN THE FIELD BASED ON PREVAILING FIELD CONDITIONS.
- CAT6 IS ACCEPTABLE IN LIEU OF CATSE. IF INSTALLING CAT6 CABLES, CONTRACTOR SHALL VERIFY CONDUIT FILL RATIO AND UPSIZE CONDUIT AS NECESSARY.
- ALL TWISTED PAIR CABLES SHALL BE OUTDOOR RATED SINGLE JACKETED CABLE, 18 AWG MINIMUM.
- ALL SHIELDED CONDUCTOR SHALL HAVE THE SHIELD GROUNDED ON TELEMETRY SIDE ONLY.
- ALL OUTDOOR RATED SHIELDED CATSE CABLES SHALL BE TYPE F/UTP WITH DRAIN WIRE, OSP RATED.

GENERAL NOTES

- FEEDER SHALL NOT BE ROUTED THROUGH THE UTILITY PULL OR UTILITY METER SECTIONS. FEEDER SHALL NOT BE ROUTED THROUGH ANY OTHER SECTION THAN THAT IN WHICH IT TERMINATES UNLESS BARRIERS ARE PROVIDED PER NEC 408.3.
- THE ENERGY SERVER INVERTER OUTPUT CHARACTERISTICS SHALL BE IN ACCORDANCE WITH NEC 705.14.
- INTERCONNECTIONS SHALL BE IN ACCORDANCE WITH NEC 705.12.
- THE ENERGY SERVER OUTPUT IS EQUIPPED WITH UTILITY-INTERACTIVE INVERTERS RECOGNIZED BY UL TO UL1741 AND IEEE 1547 AND COMPLIES WITH NEC 692.62. INVERTER SETTINGS PER THE PROVIDED TABLE BELOW.
- THE ENERGY SERVER IS NOT A SEPARATELY DERIVED SYSTEM PER NEC 250.30 [ART. 100]
- CONTRACTOR SHALL GROUND AND BOND ALL METALLIC EQUIPMENT, BOXES, AND CONDUIT BETWEEN EACH BLOOM ENERGY SERVER AND FACILITY POINT OF CONNECTION IN COMPLIANCE WITH LOCAL AHJ AND NEC REQUIREMENTS.
- CONTRACTOR SHALL TEST ALL NEW CIRCUIT BREAKERS GREATER THAN 100A.
- INSTALLATION PHASING SHOULD MATCH THE EXISTING FACILITY PHASING FOR 3-PHASE WIRES.

REFERENCE SHEET NOTES

- ALL CONNECTIONS FROM FUEL CELLS TO INVERTER ARE FACTORY WIRED AND ALL MAINTENANCE CABINETS ARE ACTIVELY PRESSURIZED; THEREFORE, NO CLASS 1, DIVISION 2 WIRING IS REQUIRED.
- ALL COMPONENTS SHOWN IN THIS BOUNDARY SHALL BE UL LISTED TOGETHER AS A SINGLE, COMPLETE, ALL INCLUSIVE UNIT. ALL ELECTRICAL CONDUIT/CABLE CONNECTIONS WITHIN THIS BOUNDARY SHALL BE FACTORY INSTALLED WITH SOME FINAL CONNECTIONS TO BE COMPLETED BY THE CONTRACTOR IN THE FIELD. REFER TO BLOOM ENERGY INSTALLATION MANUAL FOR ALL FINAL TERMINATION POINTS.
- CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT AND CONDUCTOR AS REQUIRED. SELECTION OF CONDUIT TYPE SHALL BE PER NEC REQUIREMENTS. REFER TO BLOOM ENERGY INSTALLATION MANUAL FOR ALL FINAL TERMINATION POINTS AT BLOOM ENERGY FURNISHED EQUIPMENT.
- MANUFACTURER INSTALLED, PRE-WIRED EPO BUTTON LOCATED IN READILY ACCESSIBLE LOCATION AT ENERGY SERVER PLATFORM AND CONNECTED TO TELEMETRY CABINET TERMINAL STRIP.
- CONTRACTOR SHALL FURNISH GROUND CONDUCTOR FROM THE POWER DISTRIBUTION SECTION TO THE UFER GROUND ROD IN THE ANCILLARY PAD.
- CONTRACTOR SHALL FURNISH AND INSTALL 1-#1/0G AWG CU FROM ENERGY SERVER GROUND TO UFER GROUND IN ENERGY SERVER PAD, TYP.
- CONTRACTOR SHALL FURNISH AND INSTALL SPARE LUGS, WHERE AVAILABLE, CONTRACTOR SHALL USE EXISTING SPARE LUGS AT POINT OF INTERCONNECTION IF SPARE LUGS ARE NOT AVAILABLE, UTILIZE EXISTING MANUFACTURED HOLES IN BUS LABELED FOR TAP AND TERMINATE GROUND CONDUCTOR TO THE GROUND BUS.
- CONTRACTOR SHALL FURNISH AND INSTALL UL LISTED CABLE ON ALL CONDUCTORS AT EACH PHASE AT THE POINT OF INTERCONNECTION PER NEC.
- THE UTILITY-INTERACTIVE INVERTER POINT OF CONNECTION SHALL BE IN ACCORDANCE WITH NEC 705.12
- CABINET SUPPLIED BY BLOOM ENERGY AND INSTALLED BY CONTRACTOR. EVERSOURCE APPROVED CTs & PTs SHALL BE SUPPLIED AND INSTALLED BY CONTRACTOR
- LREC METER, SOCKET AND ENCLOSURE SHALL BE SUPPLIED BY BLOOM ENERGY AND INSTALLED BY CONTRACTOR.
- FACTORY WIRING, ATTACHED IN SKID. CONTRACTOR SHALL ROLL OUT THESE FEEDERS, INSTALL THEM ON CABLE TRAYS AND TERMINATE PER REQUIREMENT.
- BLOOM ENERGY SHALL FURNISH ARC FLASH LABELING FOR APPLICABLE EQUIPMENT AND CONTRACTOR SHALL INSTALL ARC FLASH LABELING.
- BLOOM ENERGY SHALL COORDINATE COMMUNICATION CONTROL I/O SCHEDULE, TESTING AND COMMISSIONING OF ENERGY SERVER EQUIPMENT.

MANUFACTURER SUPPLIED INVERTER SETTINGS

FUNCTION	TRIP VALUE	TRIP TIME
UNDERVOLTAGE (27-1)	≤ 50% (240 V)	0.16 SECONDS (10 CYCLES)
UNDERVOLTAGE (27-2)	≤ 88% (422.4V)	5.00 SECONDS (300 CYCLES)
OVERVOLTAGE (59-1)	≥ 110% (528V)	1.00 SECONDS (60 CYCLES)
OVERVOLTAGE (59-2)	≥ 120% (576V)	9.6 SECONDS (576 CYCLES)
UNDERFREQUENCY (81U-1)	≤58 HZ	180 SECONDS (108000 CYCLES)
UNDERFREQUENCY (81U-2)	≤ 56.5 HZ	9.6 SECONDS (576 CYCLES)
OVERFREQUENCY (81O-1)	≥61 HZ	180 SECONDS (108000 CYCLES)
OVERFREQUENCY (81O-2)	≥62 HZ	9.6 SECONDS (576 CYCLES)
RECONNECT TIMER		300 SECONDS (1800 CYCLES)



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



REVISION HISTORY

REV	REVISION ISSUE	DATE
0A	INITIAL RELEASE	10/05/2020
0B	FOR PERMIT	03/22/2021
0C	REVISED PER AHJ AND UTILITY COMMENTS	07/19/2021

DESIGNED BY SUPREETHA
DRAWN BY BASAVARAJ BENAKANAHALLI
REVIEWED BY RAJ RAGBOTRA
APPROVED BY JOSEPH A. TEMOWO

SHEET TITLE
ELECTRICAL SINGLE LINE DIAGRAM

DRAWING NUMBER
E3.1

BLOOM DOCUMENT
DOC-1012979

THIS DRAWING IS 24" X 36" AT FULL SIZE
SITE ID: HDP207.0 SHEET 08 OF 11



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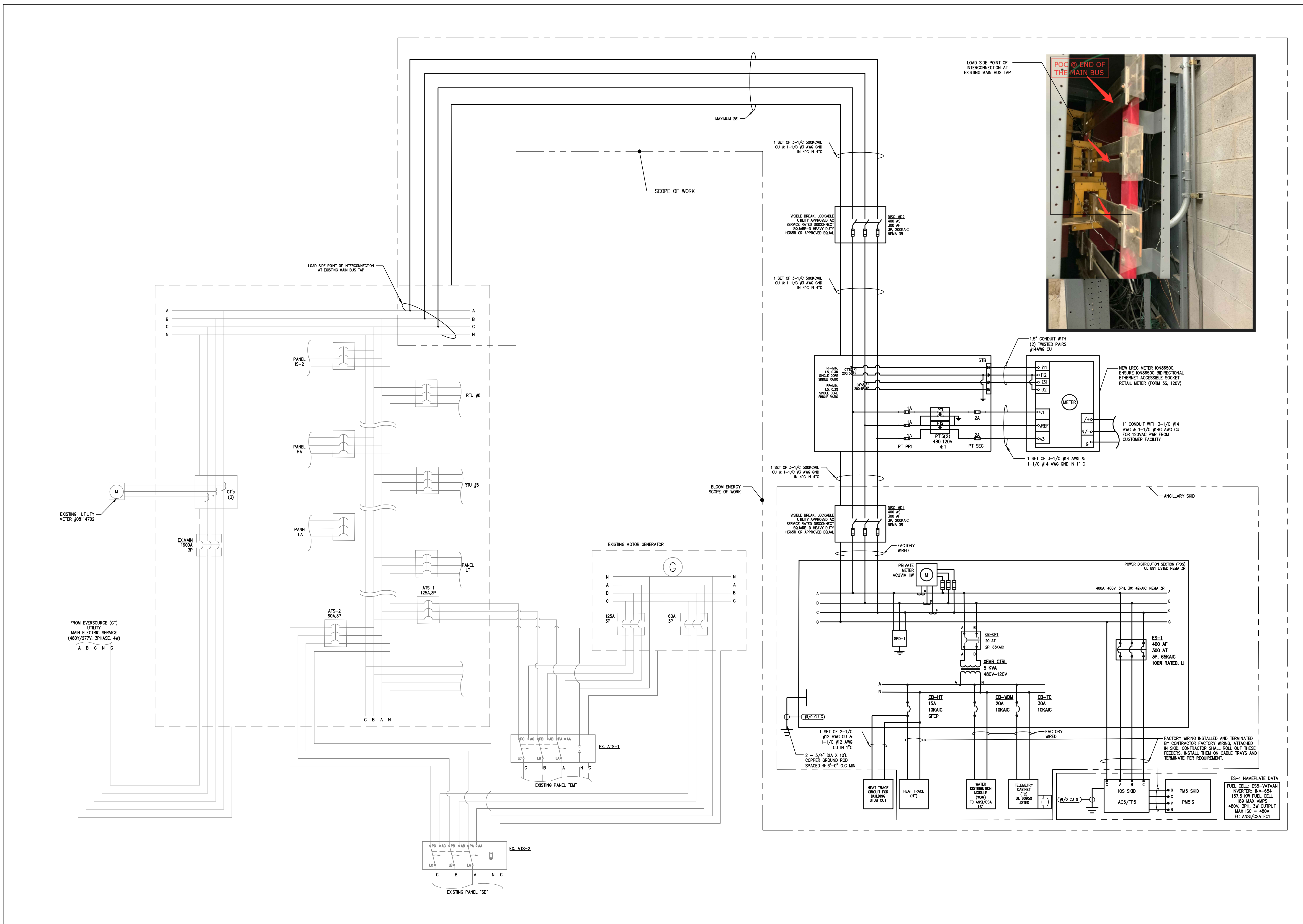
DESIGNED BY SUPREETHA	REVIEWED BY RAJ RAGBOTRA
DRAWN BY BASAVARAJ BENAKANAHALLI	APPROVED BY JOSEPH A. TEMOWO

SHEET TITLE
ELECTRICAL THREE LINE DIAGRAM

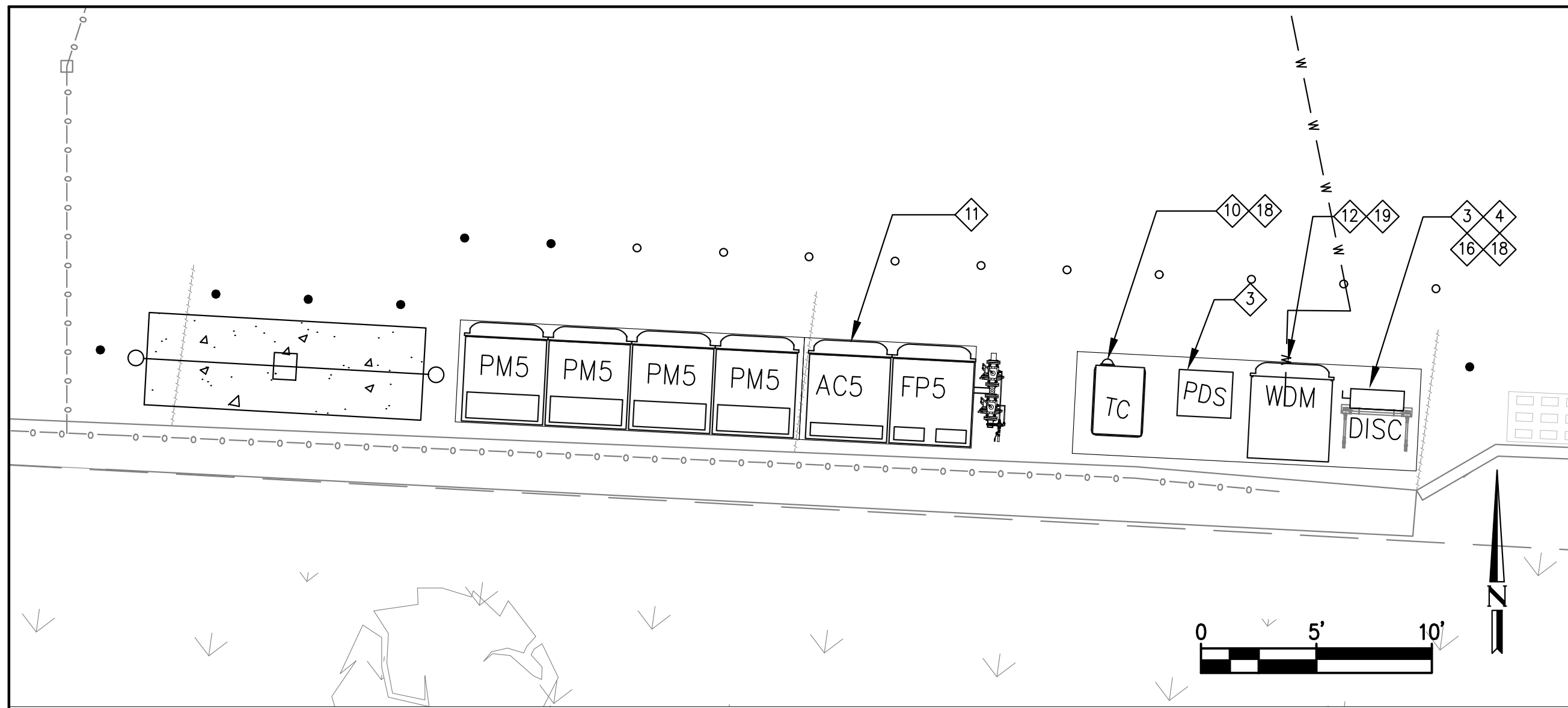
DRAWING NUMBER
E3.2

BLOOM DOCUMENT
DOC-1012979

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SITE ID: HDP207.0 SHEET 09 OF 11



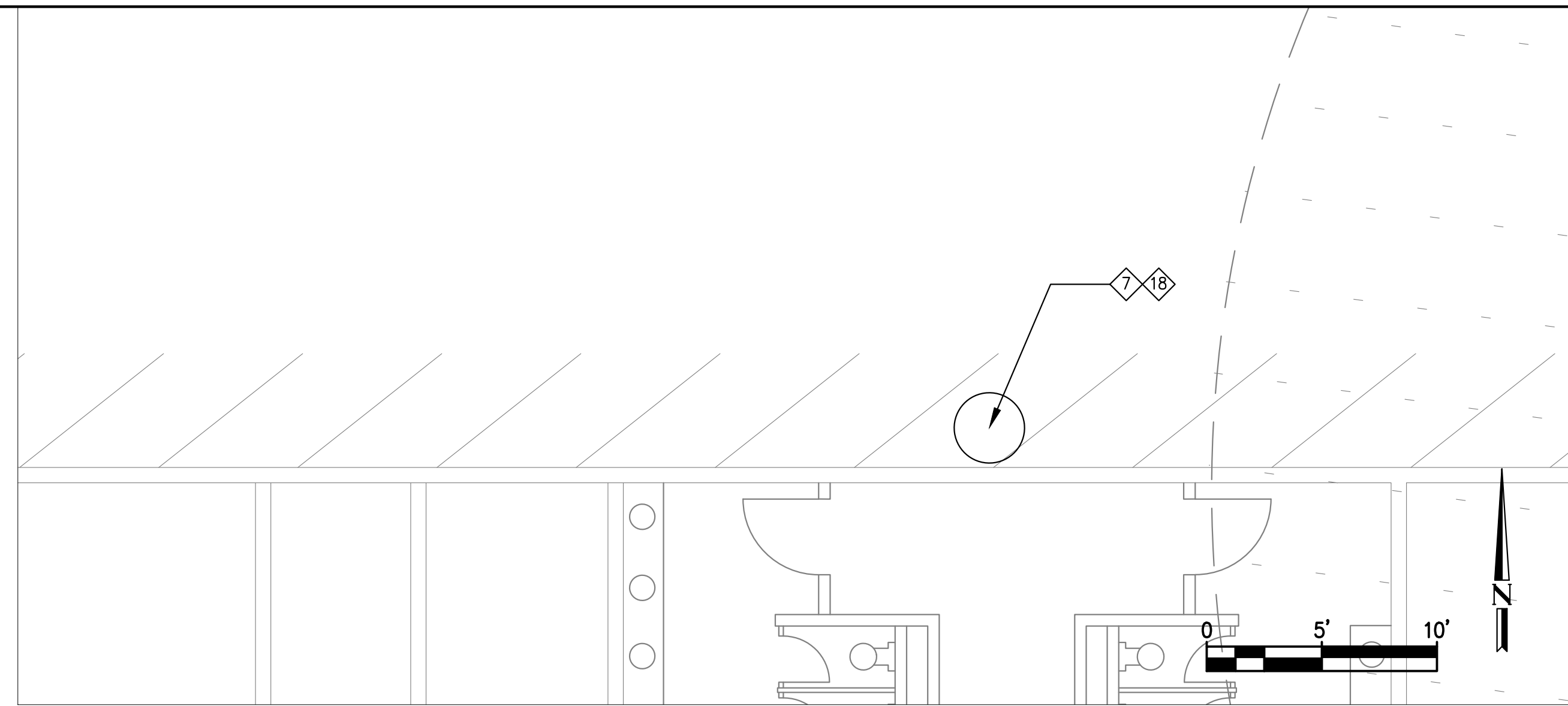
ELECTRICAL THREE LINE DIAGRAM 1
SCALE: NTS **E3.2**



ES AREA PLACARD PLAN

SCALE: 1" = 5'

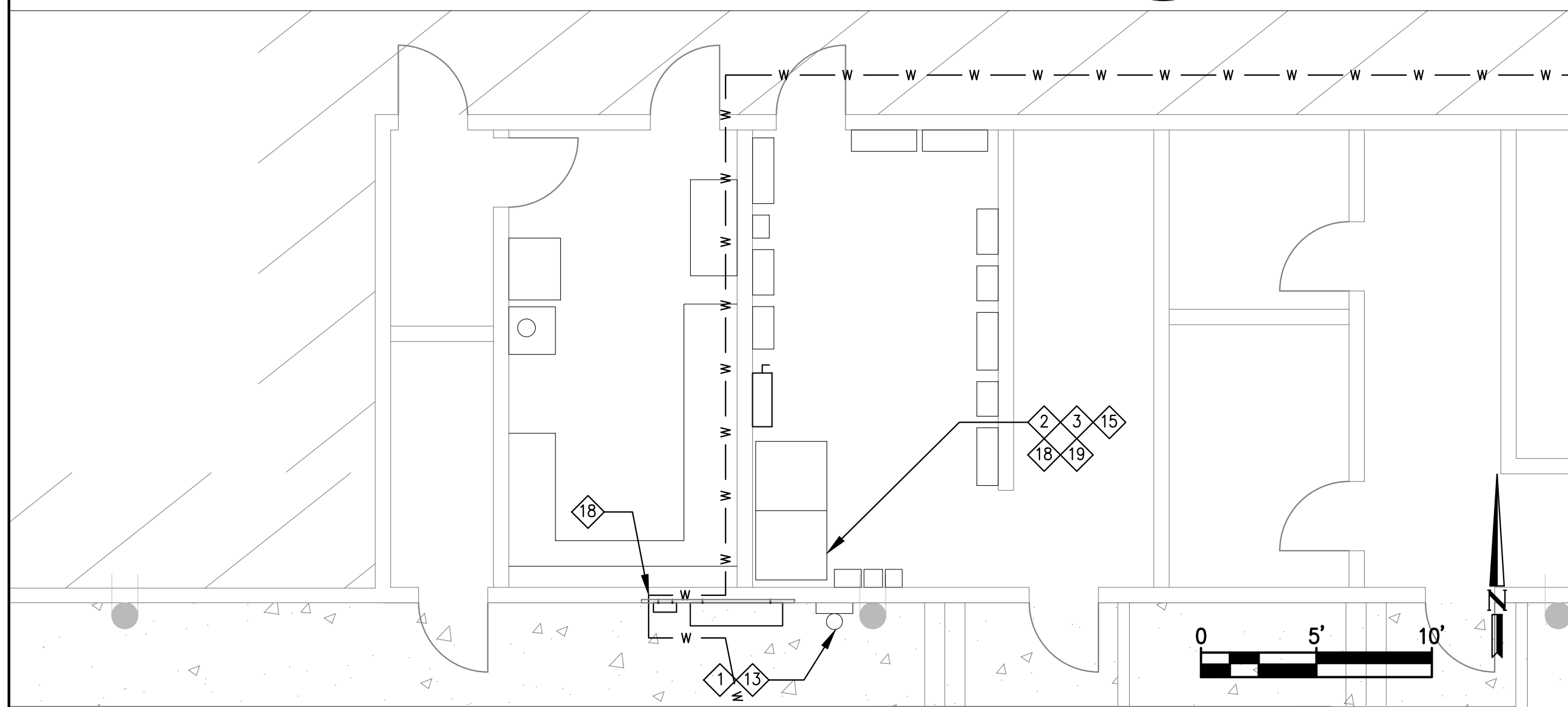
1
M1.1



WATER TAP PLACARD PLAN

SCALE: 1" = 5'

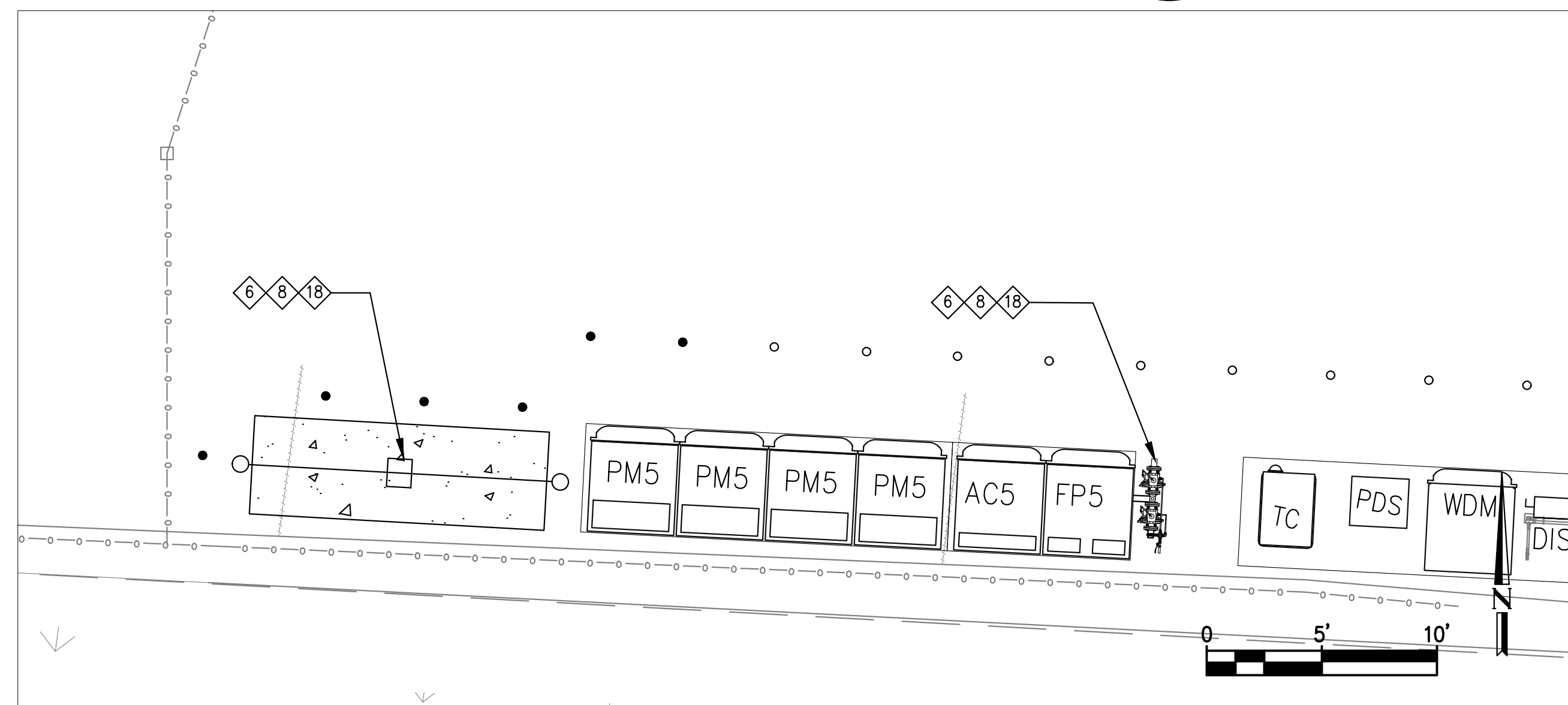
2
M1.1



ELEC TIE IN PLACARD PLAN

SCALE: 1" = 5'

3
M1.1



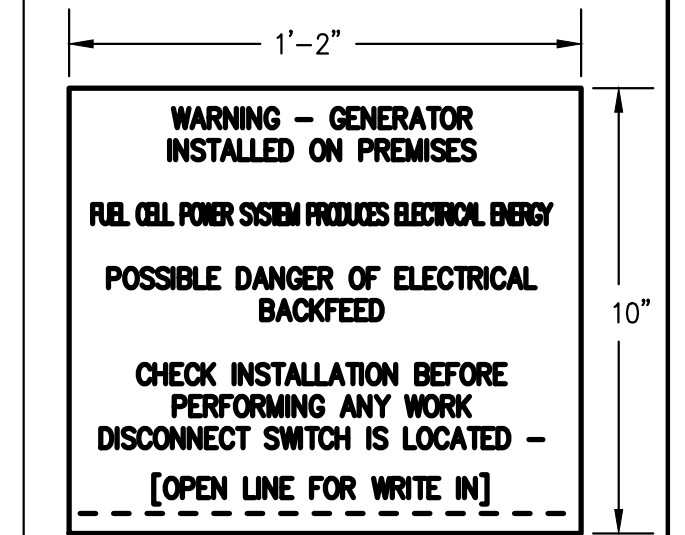
GAS METER PLACARD PLAN

SCALE: 1" = 5'

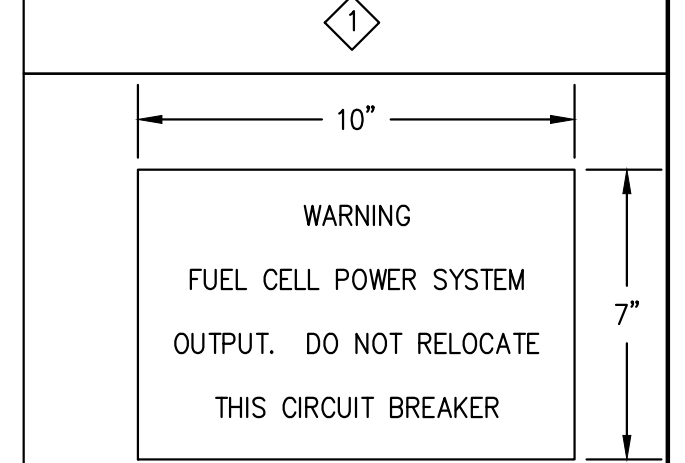
4
M1.1

GENERAL NOTES

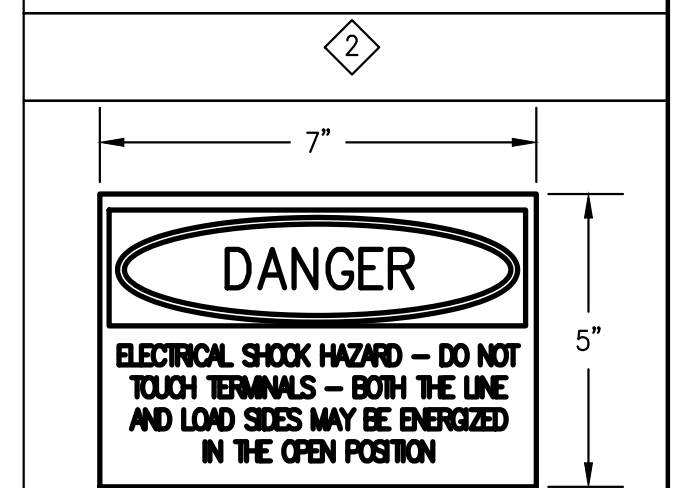
- BLOOM ENERGY SHALL FURNISH THE SIGNS AS SHOWN AND CONTRACTOR SHALL INSTALL SIGNS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ADDITIONAL SIGNS REQUIRED BY THE AHJS AND UTILITIES.



TEXT: 1/2" HIGH RED LETTERING
BACKGROUND: WHITE
MATERIAL: SELF-ADHESIVE VINYL
SIGN SHALL BE MOUNTED AT POINT OF COMMON COUPLING, NEAR UTILITY METER, PLACE 5' FROM THE GROUND OR AS SPACE IS PROVIDED CENTERED ON UNIT.



TEXT: 1/2" HIGH RED LETTERING
BACKGROUND: WHITE
MATERIAL: SELF-ADHESIVE VINYL
SIGN SHALL BE MOUNTED ON INTERCONNECTION CIRCUIT BREAKER IN MAIN SWITCHBOARD (LOAD SIDE TAPS ONLY)



HEADER: DANGER
TEXT: BLACK AND WHITE LETTERING
BACKGROUND: WHITE, BLACK, & RED
MATERIAL: SELF-ADHESIVE VINYL
SIGN SHALL BE MOUNTED ON ALL ELECTRICAL PROTECTIVE DEVICES, PLACED 5' FROM THE GROUND CENTERED ON UNIT.



4353 N. FIRST STREET
SAN JOSE, CA 95134

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

CUSTOMER SITE

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STORE #6209
114 FEDERAL ROAD
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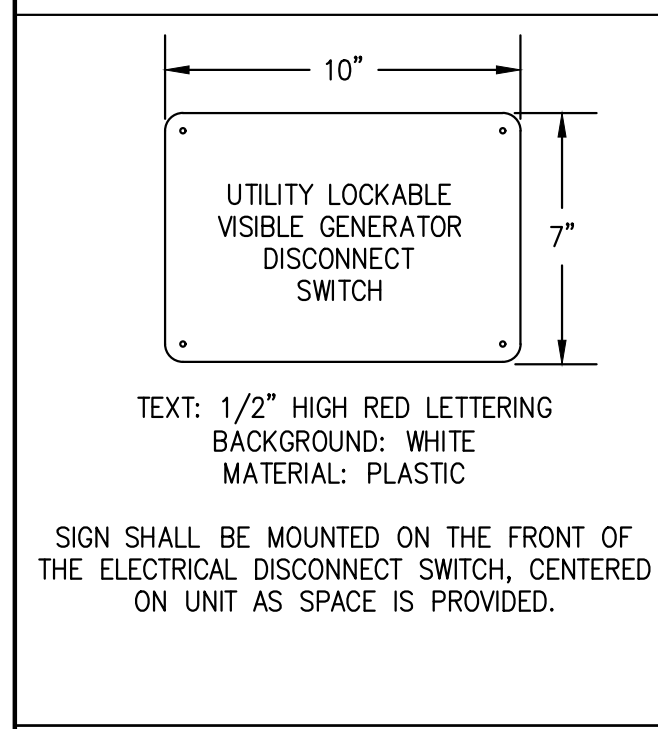
DESIGNED BY KATE TAYLOR	REVIEWED BY RAJ RAGBOTRA
DRAWN BY BASAVARAJ BENAKANAHALLI	APPROVED BY CARSON TURNER

SHEET TITLE
PLACARD PLAN

DRAWING NUMBER
M1.1

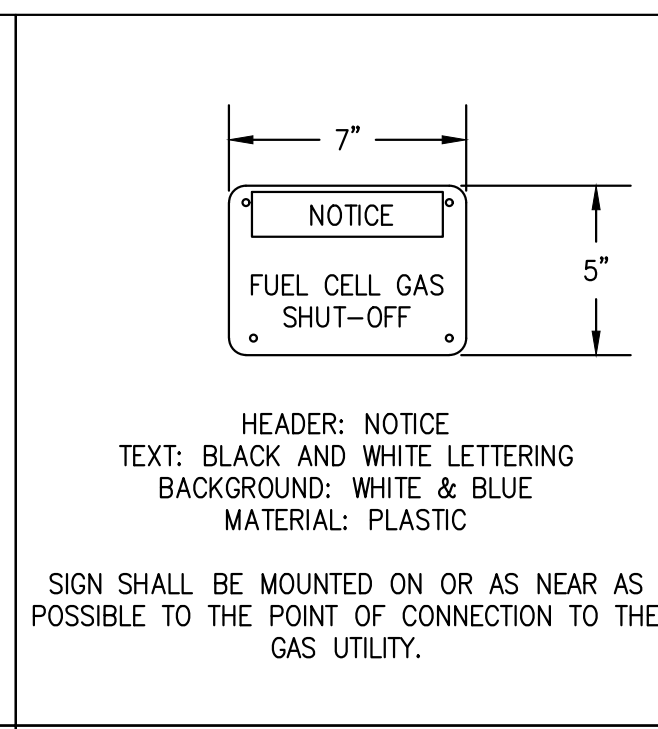
BLOOM DOCUMENT
DOC-1012979

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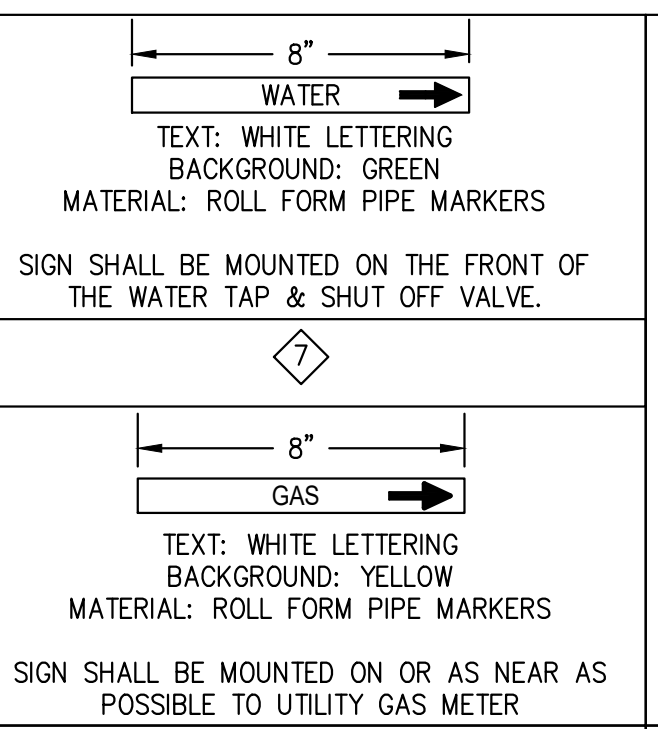


TEXT: 1/2" HIGH RED LETTERING
BACKGROUND: WHITE
MATERIAL: PLASTIC
SIGN SHALL BE MOUNTED ON THE FRONT OF THE ELECTRICAL DISCONNECT SWITCH, CENTERED ON UNIT AS SPACE IS PROVIDED.

NOT IN USE

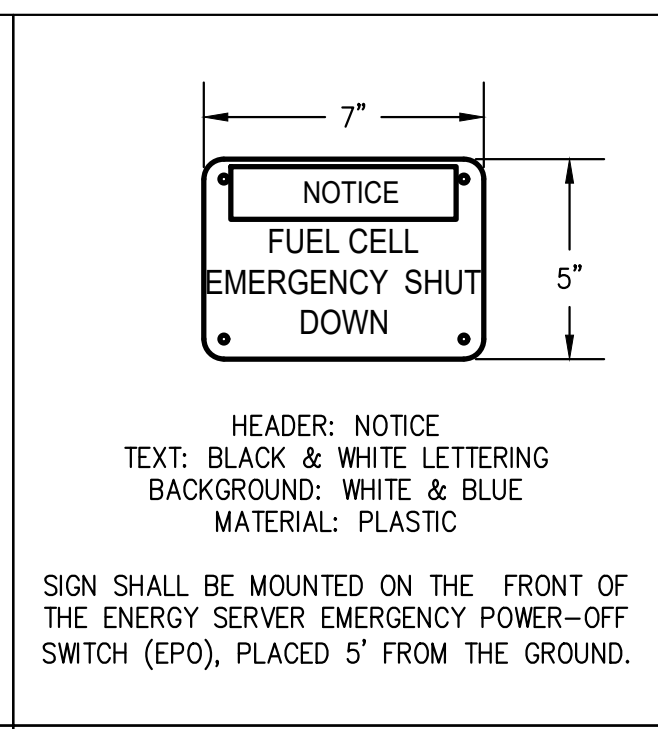


HEADER: NOTICE
TEXT: BLACK AND WHITE LETTERING
BACKGROUND: WHITE & BLUE
MATERIAL: PLASTIC
SIGN SHALL BE MOUNTED ON OR AS NEAR AS POSSIBLE TO THE POINT OF CONNECTION TO THE GAS UTILITY.

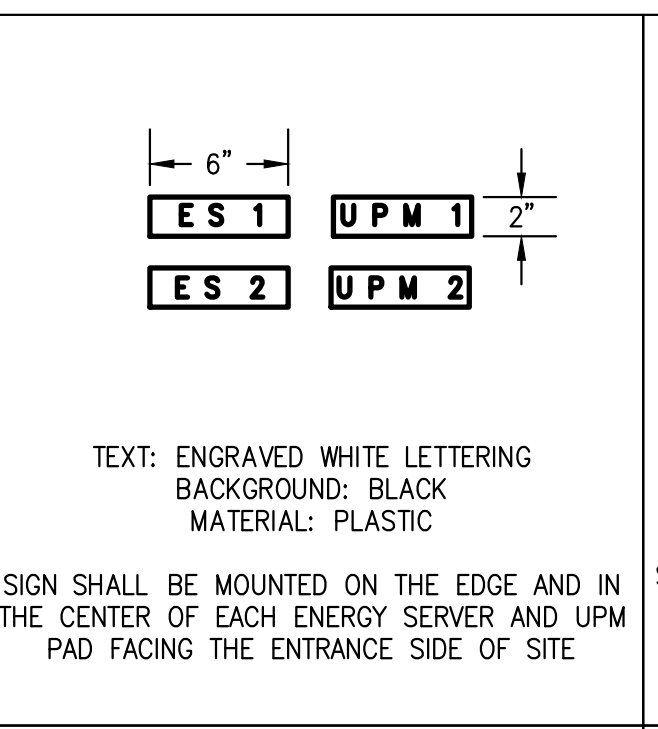


TEXT: WHITE LETTERING
BACKGROUND: GREEN
MATERIAL: ROLL FORM PIPE MARKERS
SIGN SHALL BE MOUNTED ON THE FRONT OF THE WATER TAP & SHUT OFF VALVE.
TEXT: WHITE LETTERING
BACKGROUND: YELLOW
MATERIAL: ROLL FORM PIPE MARKERS
SIGN SHALL BE MOUNTED ON OR AS NEAR AS POSSIBLE TO UTILITY GAS METER

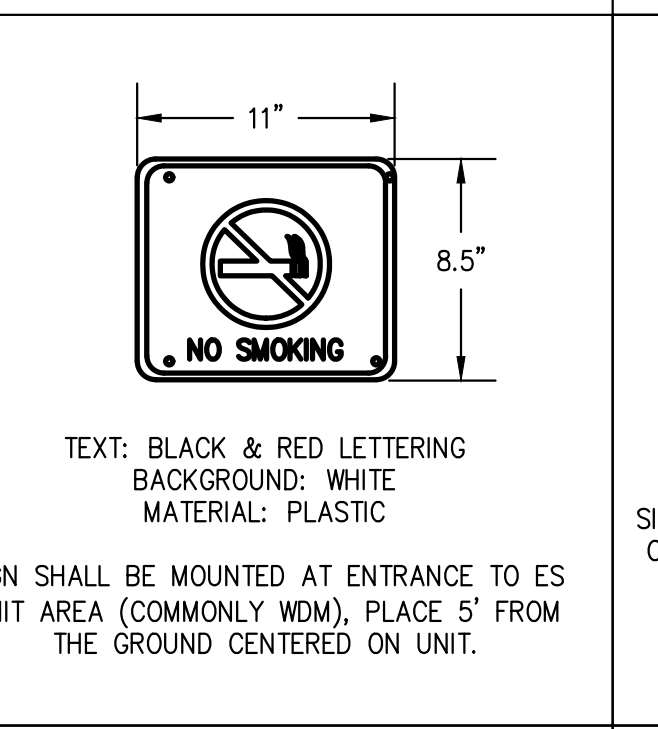
NOT IN USE



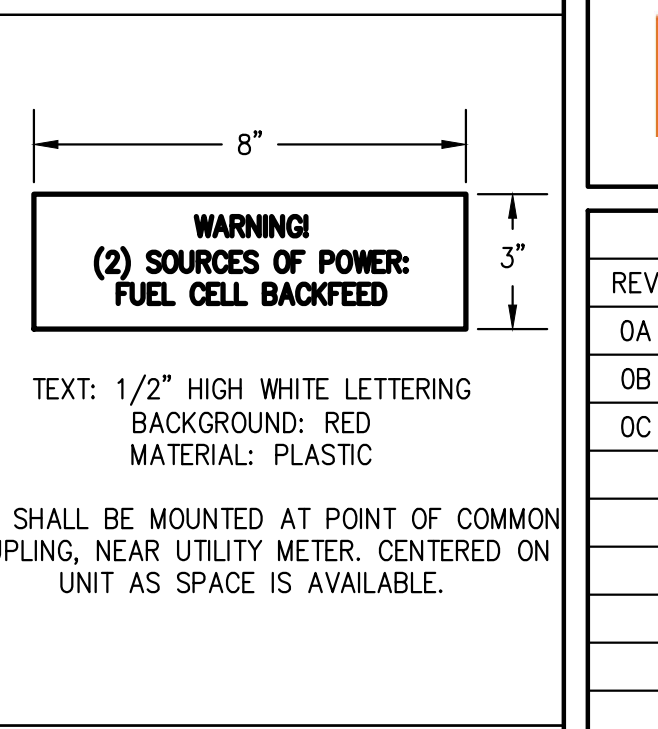
HEADER: NOTICE
TEXT: BLACK & WHITE LETTERING
BACKGROUND: WHITE & BLUE
MATERIAL: PLASTIC
SIGN SHALL BE MOUNTED ON THE FRONT OF THE ENERGY SERVER EMERGENCY POWER-OFF SWITCH (EPO), PLACED 5' FROM THE GROUND.



TEXT: ENGRAVED WHITE LETTERING
BACKGROUND: BLACK
MATERIAL: PLASTIC
SIGN SHALL BE MOUNTED ON THE EDGE AND IN THE CENTER OF EACH ENERGY SERVER AND UPM SWITCH (EPO), PLACED 5' FROM THE ENTRANCE SIDE OF SITE.

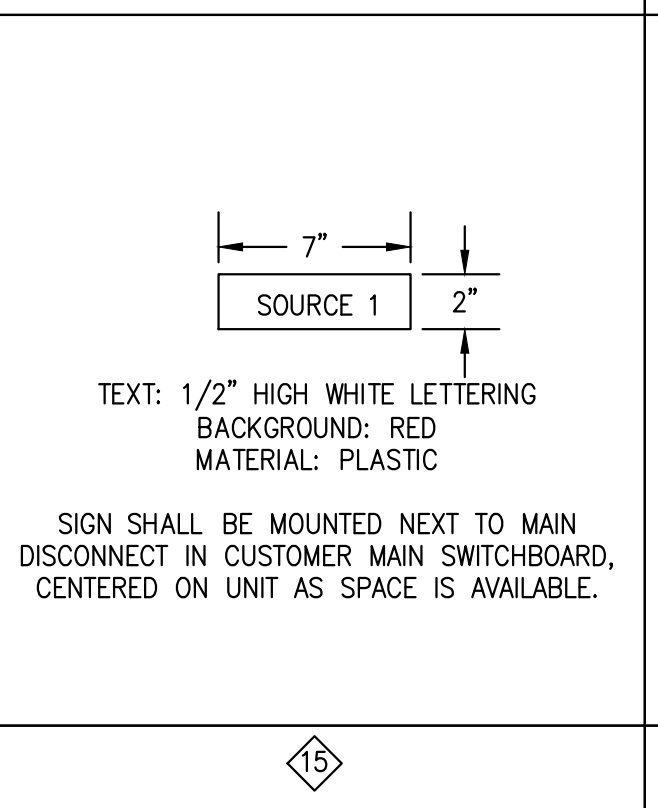


TEXT: BLACK & RED LETTERING
BACKGROUND: WHITE
MATERIAL: PLASTIC
SIGN SHALL BE MOUNTED AT ENTRANCE TO ES UNIT AREA (COMMONLY WDM), PLACE 5' FROM THE GROUND CENTERED ON UNIT.

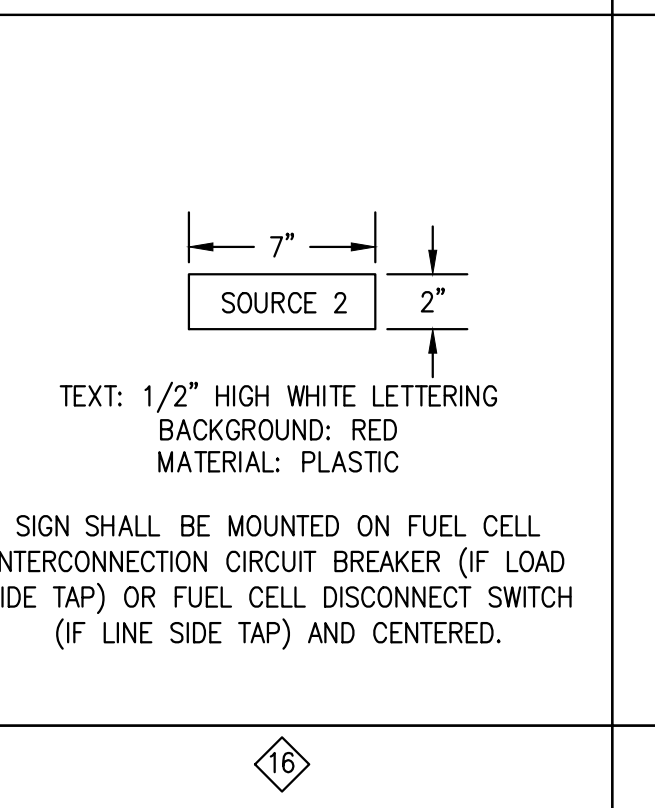


TEXT: 1/2" HIGH WHITE LETTERING
BACKGROUND: RED
MATERIAL: PLASTIC
SIGN SHALL BE MOUNTED AT POINT OF COMMON COUPLING, NEAR UTILITY METER, CENTERED ON UNIT AS SPACE IS AVAILABLE.

NOT IN USE

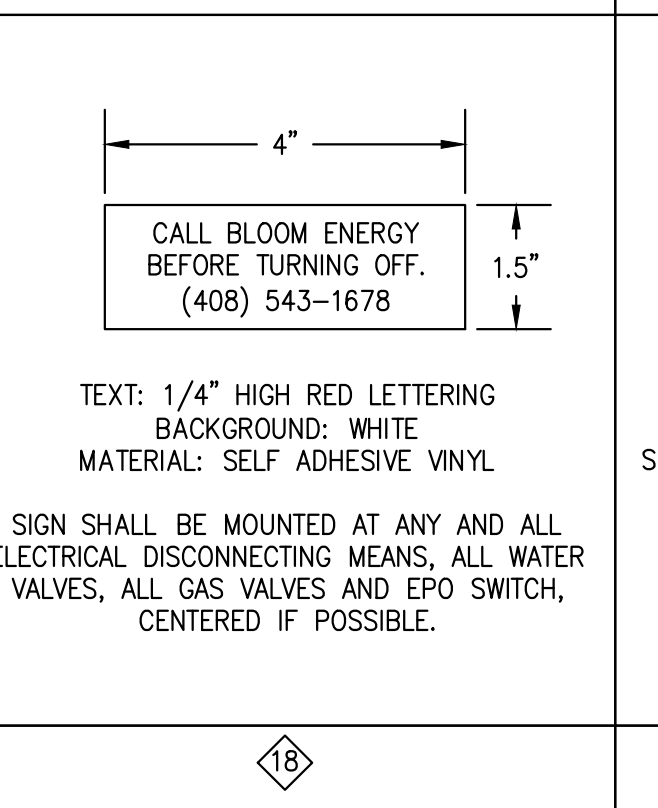


TEXT: 1/2" HIGH WHITE LETTERING
BACKGROUND: RED
MATERIAL: PLASTIC
SIGN SHALL BE MOUNTED NEXT TO MAIN DISCONNECT IN CUSTOMER MAIN SWITCHBOARD, CENTERED ON UNIT AS SPACE IS AVAILABLE.

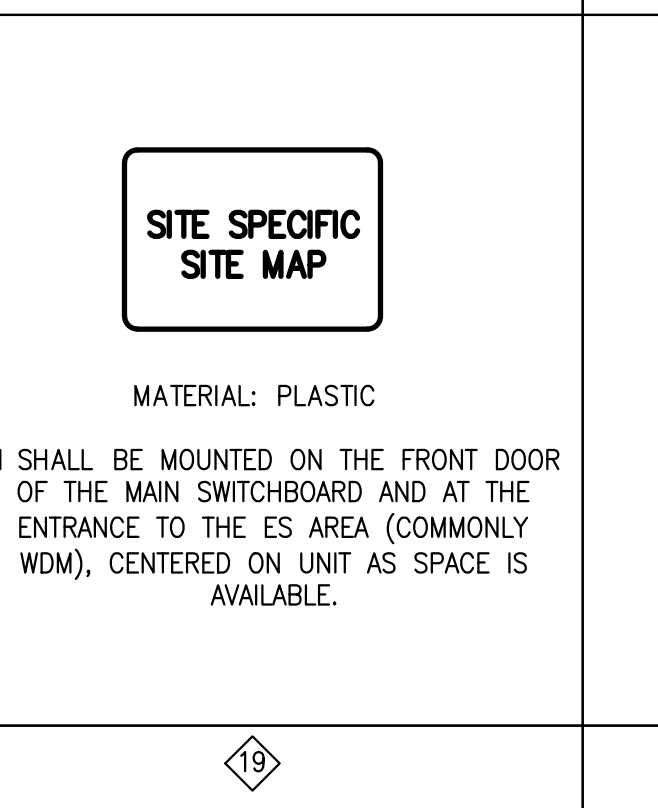


TEXT: 1/2" HIGH WHITE LETTERING
BACKGROUND: RED
MATERIAL: PLASTIC
SIGN SHALL BE MOUNTED ON FUEL CELL INTERCONNECTION CIRCUIT BREAKER (IF LOAD SIDE TAP) OR FUEL CELL DISCONNECT SWITCH (IF LINE SIDE TAP) AND CENTERED.

NOT IN USE



TEXT: 1/4" HIGH RED LETTERING
BACKGROUND: WHITE
MATERIAL: SELF ADHESIVE VINYL
SIGN SHALL BE MOUNTED AT ANY AND ALL ELECTRICAL DISCONNECTING MEANS, ALL WATER VALVES, ALL GAS VALVES AND EPO SWITCH, CENTERED IF POSSIBLE.



MATERIAL: PLASTIC
SIGN SHALL 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.

NOT IN USE

NOT IN USE

NOT IN USE

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.

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Energy Server 5	Technical Highlights (ESS-VATAAN)
Outputs	
Nameplate power output (net AC)	157.5kW
Load output (net AC)	150kW
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	10 tons
Dimensions (variable layouts)	10'9" x 8'8" x 6'9" or 21'6" 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	

¹65% LHV efficiency verified by ASME PTC 50 Fuel Cell Power Systems Performance Test
²NOx 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.

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SHEET TITLE
BLOOM ENERGY PRODUCT
DATA SHEET

DRAWING NUMBER
R0.1

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