

PROJECT INFORMATION



EV CHARGING STATION RELOCATION

S&S FOOD STORE - LAKE CITY, FL

EA PROJECT #: 100215 - RELOCATE

SAI PROJECT #: FL-269-21001

3516 US HWY 441, LAKE CITY, FL 32055

electrify
america

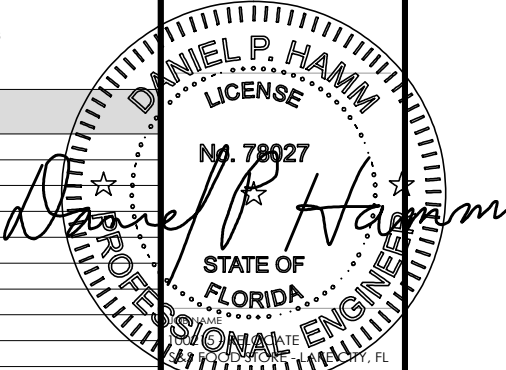
ELECTRIFY AMERICA, LLC
2003 EDMUND HALLEY
DRIVE
SUITE 200
RESTON, VA 20191



12 INDUSTRIAL WAY
SALEM, NEW HAMPSHIRE 03079



48 BEECHWOOD DRIVE
N ANDOVER, MA 01845
TEL: (978) 557-5533
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3516 US HWY 441
LAKE CITY, FL 32055

SHEET TITLE

COVER SHEET

REV	DATE	DESCRIPTION
1	04-11-22	CD100 S&S
0	03-16-22	CD100
C	03-04-22	PRELIMINARY (CD90)
B	02-15-22	PRELIMINARY (CD90)
A	02-11-22	PRELIMINARY (CD90)

PROJECT NUMBER: 100215 - RELOCATE
DRAWN BY: HC
CHECKED BY: DPH

CS-1

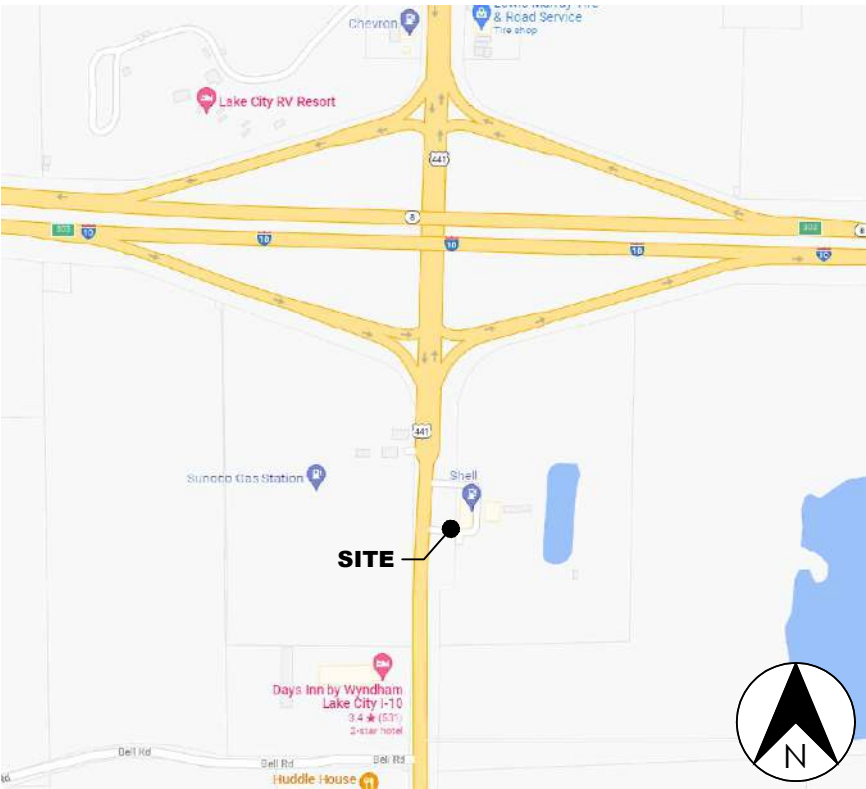
SITE INFORMATION

SITE NAME: S&S FOOD STORE - LAKE CITY, FL
SAI PROJECT NUMBER: FL-269-21001
SITE ADDRESS: 3516 US HWY 441
LAKE CITY, FL 32055
JURISDICTION: CITY OF LAKE CITY
ZONING: CHI
SITE COORDINATES: N 30° 14' 18.89" W 82° 38' 17.41" (NAD83)
GROUND ELEVATION: 145'± (NAVD88)
PROPERTY OWNER NAME: SOUTHWEST GEORGIA OIL COMPANY INC.
PROPERTY OWNER ADDRESS: 1711 E SHOTWELL ST
BAINBRIDGE, GA 39819
EQUIPMENT SUPPLIER: ELECTRIFY AMERICA
2003 EDMUND HALLEY DRIVE, SUITE 200
RESTON, VIRGINIA 20191
POWER COMPANY: FLORIDA POWER & LIGHT
BILL GIEBEIG
FPL TECH.SPECIALIST II
386-754-2047
William.giebeig@fpl.com
PROJECT MANAGER: SAI
12 INDUSTRIAL WAY
SALEM, NEW HAMPSHIRE 03079
ENGINEER CONTACT: Daniel Hamm, PE
978.557.5553
daniel.hamm@hudsondesigngroupllc.com
FL LICENSE NO. 78027

CODE REVIEW

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES:
BUILDING CODE: FLORIDA BUILDING CODE 7TH ED (2020)
ELECTRICAL CODE: NATIONAL ELECTRICAL CODE NFPA 1 (2020)
FIRE SAFETY CODE: FLORIDA FIRE PREVENTION CODE 7TH ED (2020)
USE GROUP: U (UTILITY)
CONSTRUCTION TYPE: IIB

VICINITY MAP



AERIAL MAP



CONTRACTOR NOTE

1. CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY REPAIRS OR REPLACEMENT DUE TO NEW CONSTRUCTION, OF EXISTING ELECTRICAL, PAVING, PVC CONDUITS, AND LIGHTS.

FLOOD HAZARD AREA NOTE

1. PORTIONS OF THE OVERALL PROPERTY IS LOCATED IN FLOOD ZONE "X" PER FEMA FLOOD MAP FIRM 12023C0285D EFFECTIVE DATE NOVEMBER 2, 2018. ZONE A (NO BASE FLOOD ELEVATION DETERMINED).

CALL BEFORE YOU DIG



UNDERGROUND SERVICE ALERT

811 OR 1-800-432-4770

3 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED TO BE FULL SIZE AT 22"x34".
CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS
& CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY
THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE
PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

PROJECT DESCRIPTION

1. INSTALL (1) UTILITY TRANSFORMER
2. INSTALL (1) SWITCHGEAR ASSEMBLY
3. INSTALL (4) SIGNET GEN-IV POWER UNITS
4. INSTALL (6) SIGNET GEN-IV EV CHARGING DISPENSERS
5. INSTALL (1) LED LIGHT

DRAWING INDEX

SHEET NO.	SHEET TITLE
CS-1	COVER SHEET
GN-1	GENERAL NOTES
GN-2	GENERAL NOTES
A-1	OVERALL SITE PLAN
A-2	DEMOLITION PLAN
A-3	ENLARGED SITE PLAN
A-4	EQUIPMENT PAD LAYOUT
A-5	ELEVATION
D-1	CONSTRUCTION DETAILS
D-2	CONSTRUCTION DETAILS
D-3	CONSTRUCTION DETAILS
D-4	CONSTRUCTION DETAILS
E-1	UTILITY PLAN
E-2	ELECTRICAL PLAN
E-3	ONE-LINE DIAGRAM
E-4	ELECTRICAL DETAILS
E-5	SWITCHGEAR
E-6	GROUNDING DETAILS

GENERAL CONSTRUCTION NOTES

FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY

GENERAL CONTRACTOR: SAI CONSTRUCTION

OWNER: ELECTRIFY AMERICA

1. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS.
2. THE GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
4. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
9. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
10. THE GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
11. CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
12. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEViate FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
13. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
14. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
15. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
16. THE GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
17. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
18. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
19. THE CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A-10-B-C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
20. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. THE CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
22. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
23. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
24. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
25. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
26. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
27. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
28. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
29. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
30. THE CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
31. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
32. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.

GENERAL CONSTRUCTION NOTES CONTINUED

33. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
34. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
35. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

ELECTRICAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY 'CONSTRUCTION MANAGER' AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE 'CONSTRUCTION MANAGER' HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
2. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. THE CONDITION OF EXISTING ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTAL OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM. 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:

A. UL – UNDERWRITERS LABORATORIES
B. NEC – NATIONAL ELECTRICAL CODE
C. NEMA – NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
D. OSHA – OCCUPATIONAL SAFETY AND HEALTH ACT
E. SBC – STANDARD BUILDING CODE
F. NFPA – NATIONAL FIRE PROTECTION ASSOCIATION
4. DO NOT SCALE ELECTRICAL DRAWINGS, REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, BUT CONFIRM WITH 'CONSTRUCTION MANAGER' ANY SIZES AND LOCATIONS WHEN NEEDED.
5. EXISTING SERVICES: THE CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
6. THE CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING. THE CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING THE EQUIPMENT.
7. THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
8. THE CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.
9. CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER OR ALUMINUM WITH TYPE (THWN-2) INSULATION, 600 VOLT, COLOR CODED UNLESS SPECIFIED DIFFERENTLY ON DRAWINGS.
10. ALL (THWN-2) WIRING INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
11. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
12. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER. CONTRACTOR IS TO PROVIDE ALL ELECTRICAL EQUIPMENT UNLESS OTHERWISE DIRECTED.
13. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIONAL AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY CONSTRUCTION MANAGER.
14. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
15. CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
16. THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
17. ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
18. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
19. TRENCHING AND BACKFILL: THE CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO GENERAL SITE WORK NOTES.
20. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IEEE.
21. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURES CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
22. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE 'CONSTRUCTION MANAGER' UPON FINAL ACCEPTANCE.
23. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES.
24. DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
25. ALL CONNECTIONS EXCEPT THE EV CHARGE CABLE TERMINATION IN THE CHARGE POST SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NOALOX" BY IDEAL INDUSTRIAL INC., COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED ALUMINUM & COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED – NO SUBSTITUTIONS.
26. ALL EXTERIOR AND INTERIOR ABOVE GROUND CONDUIT SHALL BE RIGID UNLESS SPECIFIED OTHERWISE. ALL BURIED CONDUITS SHALL BE SCH 40 PVC UNLESS SPECIFIED OTHERWISE.

ELECTRICAL NOTES CONTINUED

27. RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC, MEETING OR EXCEEDING NEMA TC2 – 1990. THE CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS – 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 3 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR 'GOLD GALV'.
28. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
29. CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
30. THE CONTRACTOR SHALL PLACE WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL SERVICE CONDUITS. CAUTION TAPE TO READ "CAUTION BURIED ELECTRIC".
31. WHEN DIRECTIONAL BORING IS REQUIRED, CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.
32. ALL BOLTS SHALL BE STAINLESS STEEL.
33. ALL MATERIALS AND EQUIPMENT SUPPLIED AND INSTALLED BY THE CONTRACTOR SHOULD BE NEW AND UNUSED.

GENERAL SITE NOTES

PART 1 – GENERAL

CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE PROPOSED WORK SHOWN IN THESE PLANS.

1. REFERENCES:

A. LOCAL DOT TRANPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION)

B. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).

C. OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).
2. INSPECTION AND TESTING:

A. GENERAL CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. PERFORM INSPECTIONS BEFORE CONCEALING WORK WITH FOLLOW-ON ACTIVITIES (BACKFILL, CONCRETE POUR, ETC).
3. SITE MAINTENANCE AND PROTECTION:

A. PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE CONTRACT.

B. AVOID DAMAGE TO THE SITE AND TO EXISTING FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT EXISTING FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.

C. KEEP SITE FREE OF ALL PONDING WATER.

D. PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT, LOCAL PERMITTING AGENCY AND EPA REQUIREMENTS.

E. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.

F. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE CONSTRUCTION MANAGER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.

G. PROVIDE A MINIMUM 48-HOUR NOTICE TO THE CONSTRUCTION MANAGER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.

H. SOD PLANTED IN THE FALL MUST ESTABLISH ITS ROOTS BEFORE THE FIRST WINTER FROST. DETERMINE WHEN THE FIRST FROST USUALLY OCCURS, AND PLANT THE SOD NO LATER THAN ONE MONTH BEFORE THE FIRST FROST. IF THE CONSTRUCTION IS FINISHED LATER THAN ONE MONTH BEFORE THE FIRST FROST, USE STRAW UNTIL SOD CAN BE INSTALLED.

PART 2 – PRODUCTS

1. SUITABLE MATERIAL –SUITABLE MATERIAL ARE TO BE USED FOR GRADING AND BACKFILL. SUITABLE MATERIALS ARE ON SITE SOILS REMOVED FROM EXCAVATIONS THAT EXCLUDE FROZEN SOIL, ROOTS OR ORGANIC MATERIAL, DEBRIS, TRASH, REFUSE, OR PARTICLES SIZE GREATER THAN 3-INCH. SUITABLE SOILS HAVE MOISTURE CONTENTS THAT ALLOW THEM TO BE COMPACTED TO THE SAME DENSITY AS THE NATIVE SOILS.
2. UNSUITABLE MATERIAL – SOILS THAT ARE FROZEN, CONTAIN ROOTS OR ORGANIC MATERIAL, DEBRIS, TRASH, REFUSE, OR PARTICLES SIZES GREATER THAN 3-INCH. SOILS THAT ARE TOO WET OR TOO DRY TO BE COMPACTED TO THE SAME DENSITY AS THE NATIVE SOILS ARE UNSUITABLE.
3. GRANULAR BACKFILL – SHALL MEET THE FOLLOWING GRADATION

SIEVE SIZE	TOTAL PERCENT PASSING
1 1/2 INCH (37.5 MM)	100
NO. 4 (4.75 MM)	30 TO 60
NO 200 (0.075 MM)	3 TO 15

4. GRANULAR BEDDING –WELL-GRADED SAND MEETING THE GRADATION REQUIREMENT OF ASTM C 33 FINE AGGREGATE.
5. CONTROLLED LOW STRENGTH MATERIAL (CLSM)–A SELF LEVELING AND SELF COMPACTING CEMENTITIOUS MATERIAL COMPOSED OF SAND, COARSE AGGREGATE, CEMENT, FLY ASH, WATER AND ADMIXTURES. CLSM SHALL BE EXCAVATABLE AND SHALL HAVE A DESIGNED UNCONFINED COMPRESSIVE STRENGTH OF BETWEEN 50 TO 100 PSI.
6. BACKFILL –PRODUCTS MEETING THE REQUIREMENTS OF SUITABLE MATERIAL, GRANULAR BEDDING, GRANULAR BACKFILL OR CLSM.
7. TOPSOIL – SOIL WITH AN ORGANIC CONTENT SUFFICIENT TO ALLOW VEGETATIVE GROWTH.

electrify
america

ELECTRIFY AMERICA, LLC
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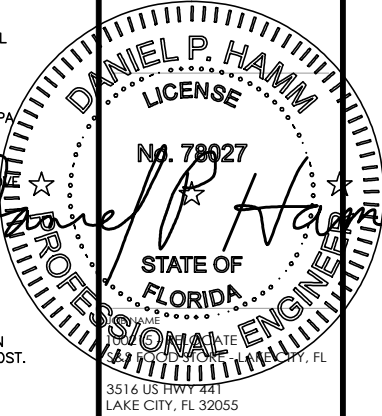
SAI

12 INDUSTRIAL WAY
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HUDSON
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3516 US HWY 441
LAKE CITY, FL 32055

SHEET TITLE

GENERAL NOTES

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REV	DATE	DESCRIPTION

PROJECT NUMBER: 100215 - RELOCATE
DRAWN BY: HC
CHECKED BY: DPH

GN-1

GENERAL SITE WORK NOTES CONT.

PART 3 – EXECUTION

1. GENERAL:

A. BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE DRAINED AT ALL TIMES.

B. BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK. CONDUCT UTILITY LOCATE IN ACCORDANCE WITH THE ONE–CALL NOTIFICATION

C. CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED.

D. REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE ORIGINAL GROUND SURFACE: ROOTS, STUMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE, RAKE, DISK OR PLOW THE AREA TO A DEPTH OF NO LESS THAN 6 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND OTHER DEBRIS THEREBY EXPOSED.

E. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNDESIRABLE MATERIALS. SUFFICIENT TOPSOIL MAY BE STOCKPILED ON SITE FOR USE DURING FINAL SITE GRADING.

F. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE MATERIAL.

G. REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.

H. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION. NOTIFY THE CONSTRUCTION MANAGER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.

I. SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF–SITE IN A LEGAL MANNER.

J. DURING EXCAVATION, THE CONTRACTOR SHALL PROVIDE SHORING, SHEETING, AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF EXCAVATION.
7. STAGING:

A. WORK / STAGING AREA TO BE CONFIRMED AT PRE–CONSTRUCTION SITE MEETING AND SURROUNDED BY TEMPORARY FENCE (SEE DETAIL BELOW) DURING CONSTRUCTION.

B. POSSIBLE LOCATION FOR TEMPORARY DRIVE AISLE CLOSURE DURING CONSTRUCTION.

C. CONTRACTOR TO PROVIDE TEMPORARY SIGNS TO DIRECT TRAFFIC FLOW.

D. SHORT TERM FENCING TO BE PROVIDED OUTSIDE OF TEMPORARY FENCE FOR ANY OPEN TRENCHES LEFT OVER NIGHT OR UNATTENDED.

E. TEMPORARY FENCE SHALL BE CLOSED AND LOCKED AT ALL TIMES. IF GATE MUST BE OPEN FOR MOVING EQUIPMENT OR MATERIALS, A SPOTTER SHALL BE PROVIDED TO TO PREVENT UNAUTHORIZED ENTRY.

F. NO EQUIPMENT OR MATERIALS SHALL BE STORED OUTSIDE THE TEMPORARY FENCE FOR ANY AMOUNT OF TIME.

FIBER OPTIC NOTES

- USE CABLE WITH THE FOLLOWING MINIMUM PROPERTIES:
1. HIGH TENSILE STRENGTH >150 LB
2. TIGHT BUFFERED
3. INDOOR / OUTDOOR UV AND MOISTURE RESISTANT "RISER" CABLE
4. CONNECTOR TYPE: ST–ST
5. FIBER TYPE: MULTI–MODE 6–FIBER (3 PAIR) 62.5UM. 6 CONNECTORS ON BOTH ENDS.
6. JACKET: INDOOR/OUTDOOR RISER, BLACK
7. BREAKOUT: SIDE A: INNER END – 24 INCHES WITH 2MM FURCATION
- 7A. SIDE B: OUTER END – 24 INCHES – 2MM FURCATION – STAGGERED EVERY 1"
8. WITH PULLING EYE ON SIDE B (OUTER END) AND SPOOL REEL

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS, UNLESS NOTED OTHERWISE: WIDE FLANGE SHAPE: A992, 50KSI ANGLE AND CHANNEL SHAPE: ASTM A36, 36 KSI PLATE: ASTM A36, 36KSI PIPE: ASTM A53 GRADE B, 35 KSI HSS: ASTM A500 GRADE B, 48KSI.
2. HIGH–STRENGTH BOLTS SHALL CONFORM TO ASTM A325: ONE HIGH–STRENGTH BOLT ASSEMBLY SHALL CONSIST OF A HEAVY HEX STRUCTURAL BOLT, A HEAVY NUT, A HARDENED WASHER CONFORMING TO ASTM F436. THE HARDENED WASHER SHALL BE INSTALLED AGAINST ELEMENT TURNED IN TIGHTENING. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS. WELDING ELECTRODES SHALL COMPLY WITH AWS D1.1 USING A5.1 OR A5.5 E70XX AND SHALL BE COMPATIBLE WITH THE WELDING PROCESS SELECTED. WELDERS SHALL BE QUALIFIED AS PRESCRIBED IN AWS D1.1.
4. UNLESS NOTED OTHERWISE ON THE DRAWING, ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 WITH HEAVY HEXAGONAL NUT.
5. FABRICATE ITEMS OF STRUCTURAL STEEL IN ACCORDANCE WITH AISC SPECIFICATION.
6. ALL EXPOSED STRUCTURAL STEEL AND BOLTS SHALL BE HOT DIP GALVANIZED PER ASTM A123.
7. SUBMIT FABRICATION AND ERECTION DRAWINGS SHOWING ALL DETAILS, CONNECTIONS, MATERIAL DESIGNATIONS, AND TOP STEEL ELEVATIONS FOR APPROVAL. THE SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL CONFORMANCE TO THE CONTRACT DRAWINGS. SUCH APPROVAL SHALL NOT RELIEVE THE FABRICATOR/CONTRACTOR OF THE RESPONSIBILITY FOR EITHER THE ACCURACY OF THE DETAILED DIMENSIONS IN THE SHOP AND ERECTION DRAWINGS OR THE GENERAL FIT–UP OF PARTS THAT ARE TO BE ASSEMBLED IN THE FIELD.
8. PRIMER SHALL BE RED OXIDE–CHROMATE PRIME COMPLYING WITH STEEL STRUCTURES PAINTING COUNCIL (SSPC) PAINT SPECIFICATION NUMBER 11.

ANCHORAGE INSTALLATION NOTES

1. DRILLING THROUGH EXISTING SLAB REBAR DURING POST–INSTALLED ANCHOR BOLTS INSTALLATION IS NOT PERMITTED.
2. POST–INSTALLED ANCHOR BOLT INSTALLATION SHALL BE PERFORMED BY PERSONNEL TRAINED TO INSTALL THE SYSTEM PER THE MANUFACTURER’S PRINTED INSTALLATION INSTRUCTIONS (MPII), AS INCLUDED IN THE ANCHOR PACKAGING.
3. EXPANSION AND ADHESIVE ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER’S INSTRUCTIONS USING STANDARD EMBEDMENTS AND EDGE DISTANCES UNLESS NOTED OTHERWISE ON THE DRAWINGS.

REINFORCED CONCRETE NOTES

1. DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
2. DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY–MX CONCRETE AT THE JOB SITE. MIX DESIGN SHALL BE APPROVED BY OWNER’S REPRESENTATIVE PRIOR TO PLACING CONCRETE.
3. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR–ENTRAINED AND SHALL HAVE 3000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
4. MAXIMUM AGGREGATE SIZE SHALL BE 3/4".
5. THE FOLLOWING MATERIALS SHALL BE USED:

PORTLAND CEMENT:
REINFORCEMENT:
NORMAL WEIGHT AGGREGATE:
WATER:
ADMIXTURES:

ASTM C 150, TYPE I
ASTM A 615, GRADE 60
ASTM C 33
DRINKABLE
NON–CHLORIDE CONTAINING
6. REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH "DETAILING MANUAL–2004 PUBLICATION SP–66" AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI–318–08.
7. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B"; ALL HOOKS SHALL BE STANDARD, UNO.
8. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

CONCRETE CAST AGAINST EARTH:
CONCRETE EXPOSED TO EARTH OR WEATHER:

3 IN.
#6 AND LARGER
#5 AND SMALLER & WWF
SLAB AND WALL
BEAMS AND COLUMNS

2 IN.
1–1/2 IN.
3/4 IN.
1–1/2 IN.
9. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
10. INSTALLATION OF CONCRETE ANCHOR, SHALL BE PER MANUFACTURERS WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER’S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.
11. CURING COMPOUNDS SHALL CONFORM TO ASTM C–309.
12. ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI–301.
13. DO NOT WELD OR TACKWELD REINFORCING STEEL.
14. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
15. LOCATE ADDITIONAL EXPANSION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT.
16. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
17. PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANES OF WEAKNESS. VIBRATE THE CONCRETE TO FULLY EMBED REINFORCING. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE THROUGH CHUTES OR FORMWORK.
18. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
19. DO NOT ALLOW CONCRETE SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT.
20. MAINTAIN TEMPERATURE OF CAST IN PLACE CONCRETE BETWEEN 50 DEGREES AND 90 DEGREES FARENHEIT. FOR COLD–WEATHER AND HOT–WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS MINIMUM.
21. UNLESS INDICATED OTHERWISE ON THE DRAWINGS, REINFORCEMENT SPLICES SHALL MEET CLASS B, TENSION LAP REQUIREMENTS IN ACCORDANCE WITH ALL PROVISIONS OF ACI 318 LATEST EDITION, UNLESS NOTED OTHERWISE.
22. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING.

GROUNDING NOTES

1. COAT ALL SURFACES WITH AN ANTI–OXIDANT COMPOUND BEFORE MATING.
2. FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI–OXIDANT COMPOUND BEFORE MATING.
3. ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).
4. ALL BELOW GRADE BONDS TO BE EXOTHERMIC WELDS OR IRREVERSIBLE COMPRESSION–TYPE CONNECTIONS LISTED FOR USE IN THE APPLICATION WHICH THEY ARE INSTALLED.
5. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. ALL HARDWARE 18–8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI–OXIDANT COMPOUND BEFORE MATING.



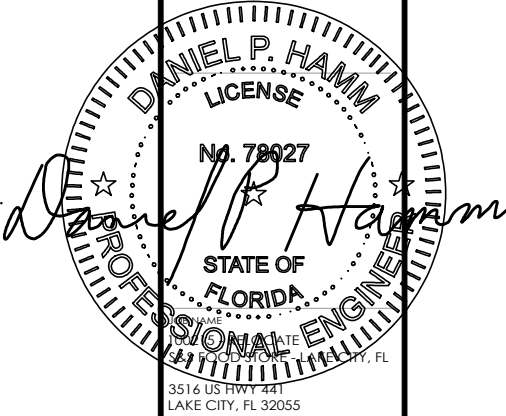
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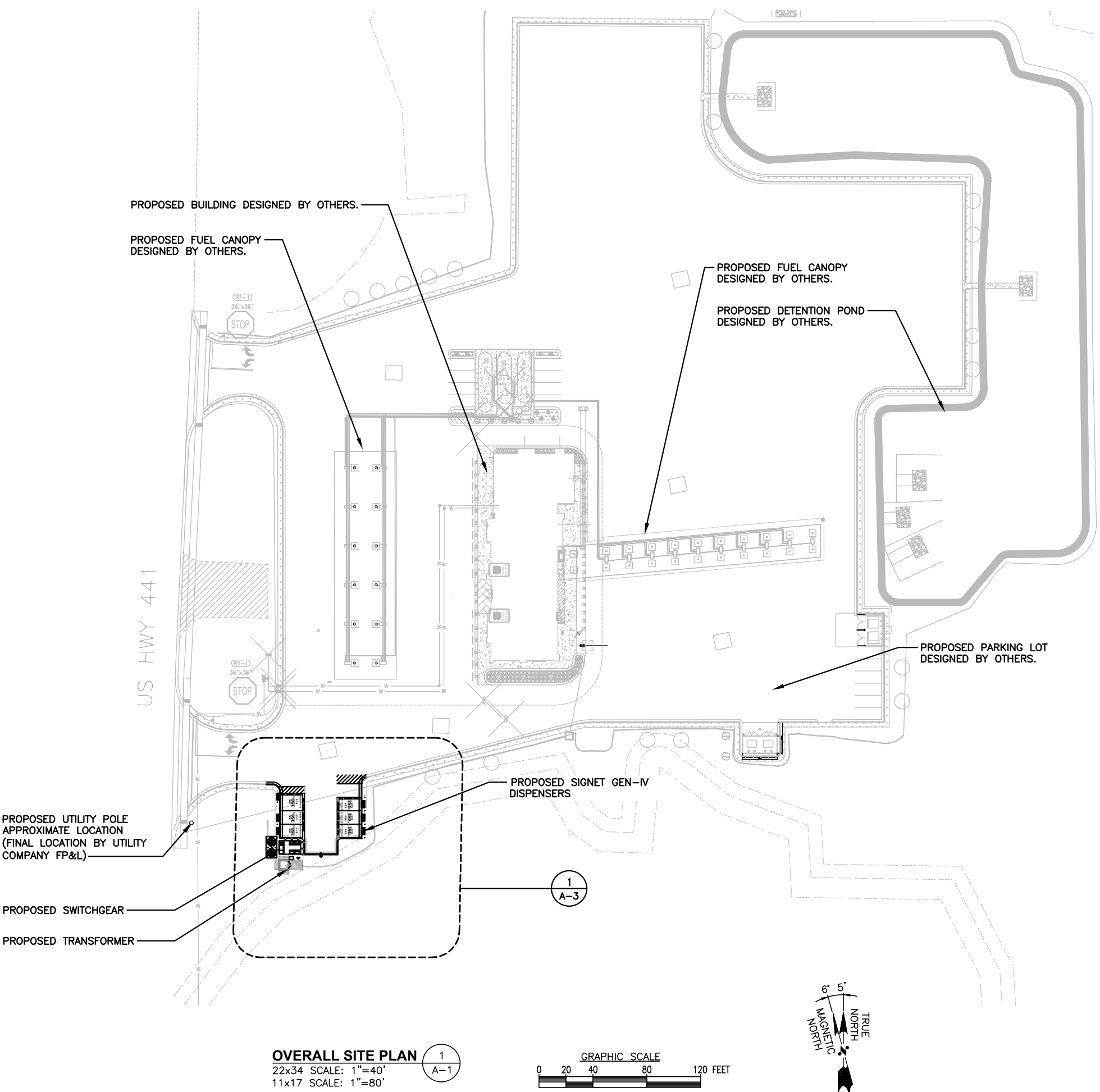
GENERAL NOTES

1	04-11-22	CD100 S&S
0	03-16-22	CD100
C	03-04-22	PRELIMINARY (CD90)
B	02-15-22	PRELIMINARY (CD90)
A	02-11-22	PRELIMINARY (CD90)
REV	DATE	DESCRIPTION

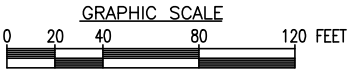
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DRAWN BY: HC
CHECKED BY: DPH

GN-2

- NOTES:
1. PROPOSED PARKING LOT, BUILDINGS, FUEL CANOPIES, UNDERGROUND FUEL TANKS, DETENTION POND, AND DRAINAGE STRUCTURES SHOWN ON THE A AND E SHEETS ARE BASED ON PROPOSED SITE DESIGN PLANS FROM NORTH FLORIDA PROFESSIONAL SERVICES, INC. AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCY IN THE WORK AREA SHOULD BE BROUGHT TO THE ENGINEER OF RECORD'S ATTENTION FOR APPROVAL.
2. ALL PROPOSED STRUCTURES, INFRASTRUCTURE, CUT/FILL, TOPOGRAPHY/GRADING, CURBING, FINISH GRADING/FINAL COVER ARE DESIGNED BY OTHERS AND TO BE INSTALLED BY OTHERS. AND ARE ASSUMED TO BE CONSTRUCTED OR PARTIALLY CONSTRUCTED. EV CHARGING SITE TO BE CONSTRUCTION IN CONJUNCTION WITH THE OVERALL SITE RE-DEVELOPMENT AND SITE IMPROVEMENTS MAY NOT YET BE IN PLACE. EA CONTRACTOR TO COORDINATE THE RELOCATION OF EV CHARGING STATIONS INSTALLATION WITH SITE HOST CONTRACTOR.
3. EROSION AND SEDIMENTATION CONTROL DESIGNED AND INSTALLED BY OTHERS.
4. LANDSCAPING DESIGNED AND INSTALLED BY OTHERS.



OVERALL SITE PLAN 1
22x34 SCALE: 1"=40'
11x17 SCALE: 1"=80' A-1



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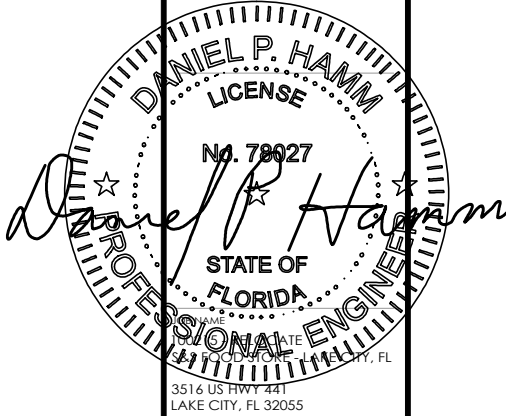
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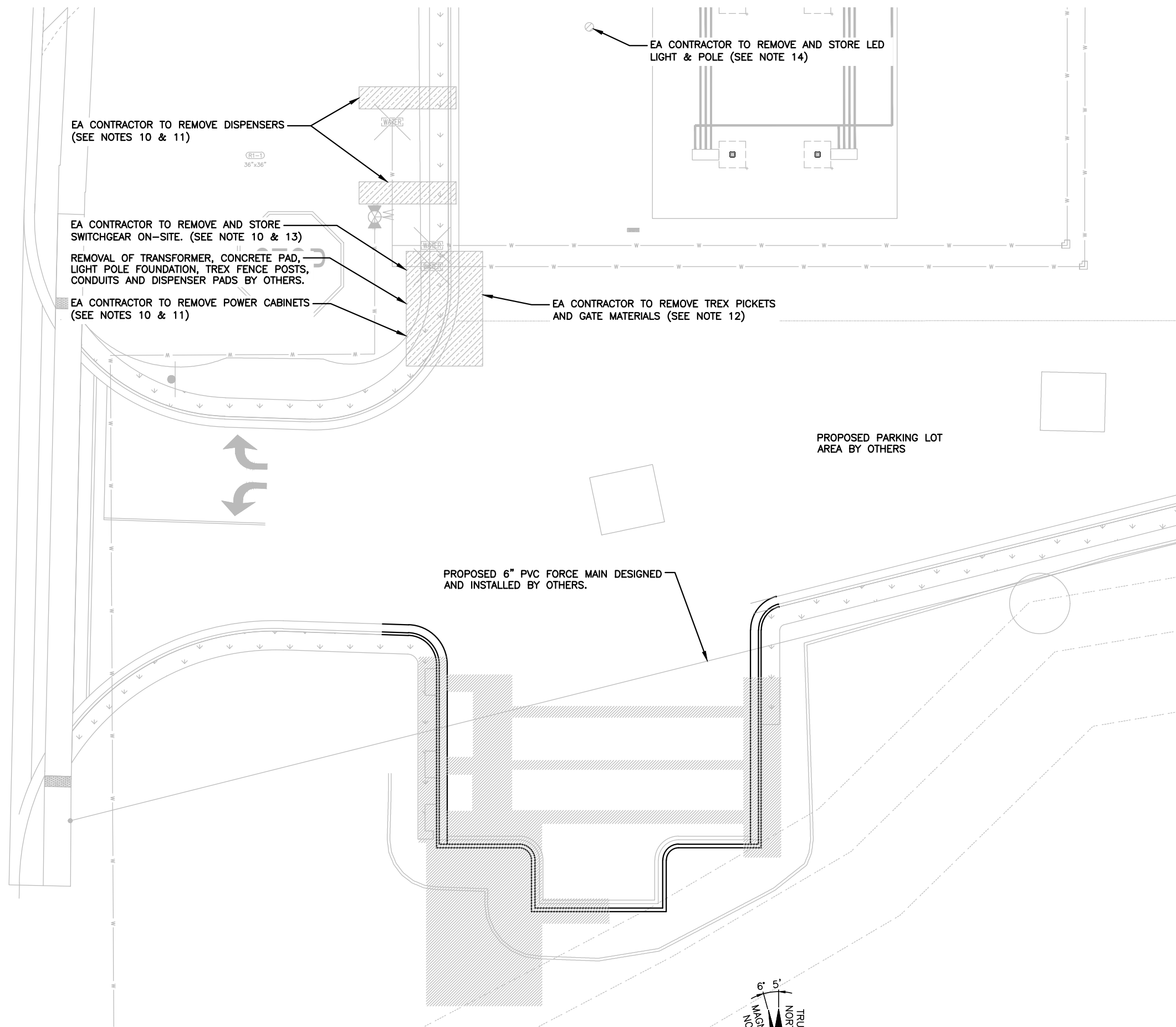
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OVERALL SITE PLAN

REV	DATE	DESCRIPTION
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C	03-04-22	PRELIMINARY (CD90)
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A	02-11-22	PRELIMINARY (CD90)

PROJECT NUMBER: 100215 - RELOCATE
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CHECKED BY: DPH

A-1



DEMO QUANTITIES TABLE			
	ASPHALT	0	± SQ FT
	PARKING LINES	0	± LINEAR FT
	CURB/GUTTER	0	± SQ FT
	LANDSCAPING	0	± SQ FT
	LANDSCAPING SHRUB REMOVAL AND REPLANTING	0	
	CONCRETE	NA	± SQ FT
N/A	BORING	NA	± LINEAR FT
	TRENCHING	1,676	± SQ FT

- NOTES
- DEMOLITION NOTES:
1. PROPOSED PARKING LOT, BUILDINGS, FUEL CANOPIES, UNDERGROUND FUEL TANKS, DETENTION POND, AND DRAINAGE STRUCTURES SHOWN ON THE A AND E SHEETS ARE BASED ON PROPOSED SITE DESIGN PLANS FROM NORTH FLORIDA PROFESSIONAL SERVICES, INC. AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCY IN THE WORK AREA SHOULD BE BROUGHT TO THE ENGINEER OF RECORD'S ATTENTION FOR APPROVAL.

2. ALL PROPOSED STRUCTURES, INFRASTRUCTURE, CUT/FILL, TOPOGRAPHY/GRADING, CURBING, FINISH GRADING/FINAL COVER ARE DESIGNED BY OTHERS AND SHALL BE INSTALLED BY OTHERS. AND ARE ASSUMED TO BE CONSTRUCTED OR PARTIALLY CONSTRUCTED. EV CHARGING SITE TO BE CONSTRUCTION IN CONJUNCTION WITH THE OVERALL SITE RE-DEVELOPMENT AND SITE IMPROVEMENTS MAY NOT YET BE IN PLACE. EA CONTRACTOR TO COORDINATE THE RELOCATION OF EV CHARGING STATIONS INSTALLATION WITH SITE HOST CONTRACTOR.

3. EROSION AND SEDIMENTATION CONTROL DESIGNED AND INSTALLED BY OTHERS.

4. LANDSCAPING DESIGNED AND INSTALLED BY OTHERS.

5. CONTRACTOR SHALL PROTECT EXISTING INFRASTRUCTURE IN PLACE WITHIN THE AREA OF IMPROVEMENTS, AND RETURN SIDEWALKS, CURBING, ASPHALT, LANDSCAPING, PLANTERS, IRRIGATION SYSTEMS, AND ANY OTHER FACILITIES DISTURBED BY THE WORK TO THE SAME OR BETTER CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK.

6. CONTRACTOR SHALL PROTECT EXISTING LANDSCAPING, TREES, GROUND COVER, AND ROOT SYSTEMS TO THE MAXIMUM EXTENT POSSIBLE.

7. CONTRACTOR TO NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING WORK.

8. QUANTITIES LISTED ARE ONLY APPROXIMATIONS. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BIDDING.

9. TRENCHING IS TO BE USED EXCEPT IN HEAVY TRAFFIC AREAS, MAIN DRIVE AISLES, AND ACROSS STORE ENTRANCES.

10. EA CONTRACTOR TO UN-TERMINATE AND REMOVED CONDUCTORS IN SWITCHGEAR, POWER CABINETS, DISPENSERS, AND THE LED LIGHT.

11. EA CONTRACTOR TO LIFT AND REMOVE POWER CABINETS AND DISPENSERS. EA CONTRACTOR TO PALLETIZE POWER CABINETS AND CRATE DISPENSERS AND PREPARE ALL FOR SHIPPING. SHIPPING PROVIDED BY ELECTRIFY AMERICA.

12. EA CONTRACTOR TO DISMANTLE AND PROPERLY DISPOSE OF TREX PICKETS, GATES AND OTHER GATE/DOOR MATERIALS.

13. EA CONTRACTOR TO LIFT AND REMOVE SWITCHGEAR. SWITCHGEAR SHALL BE STORED AND PROTECTED ON-SITE.

14. EA CONTRACTOR TO REMOVE EXISTING LIGHT POLE AND LIGHT FIXTURE AND PROTECT AND STORE ON-SITE FOR RE-USE.

DEMOLITION PLAN
22x34 SCALE: 1"=10'
11x17 SCALE: 1"=20'

1
A-2



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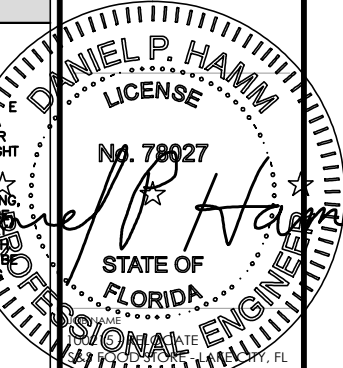
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DEMOLITION PLAN

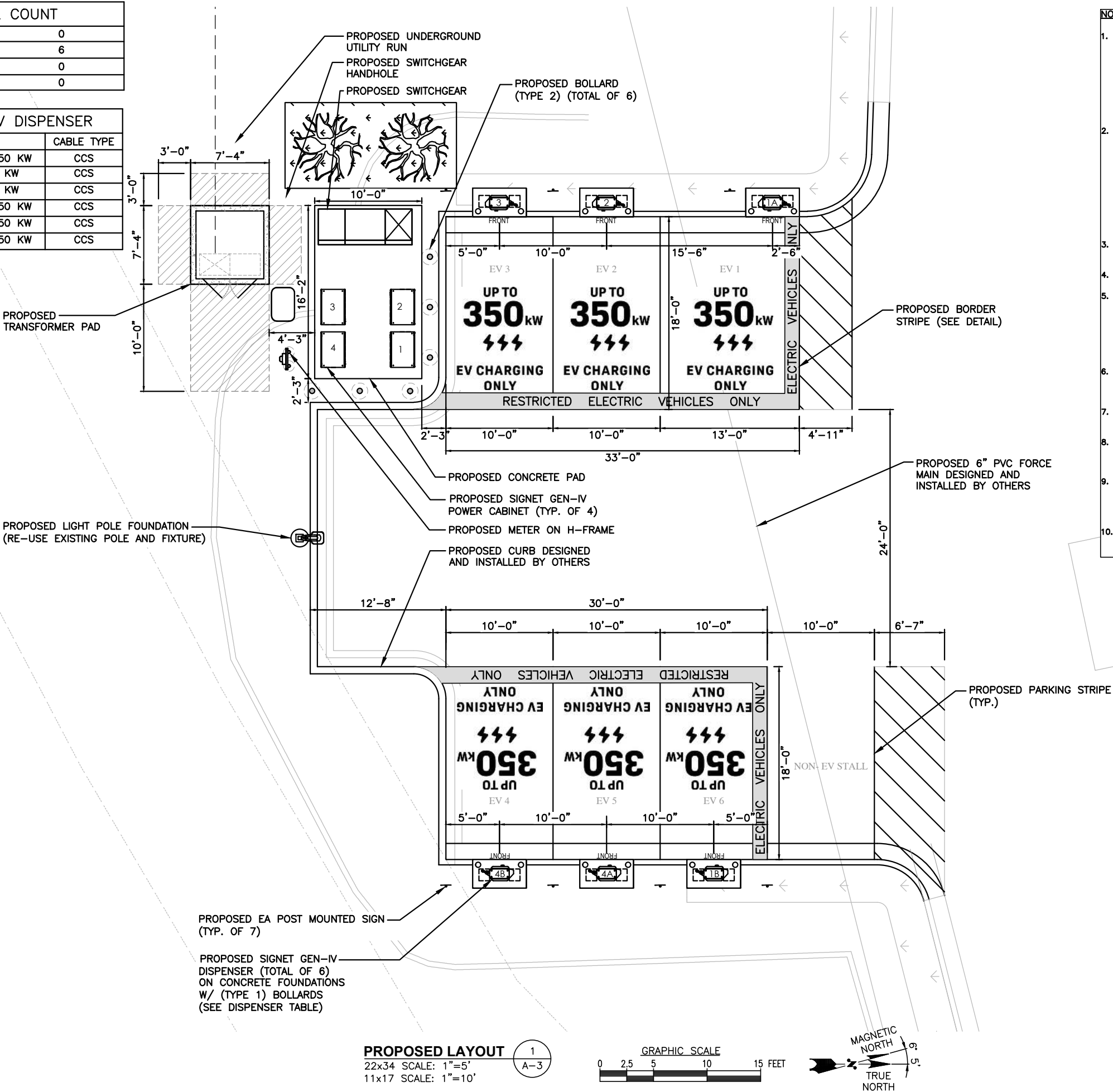
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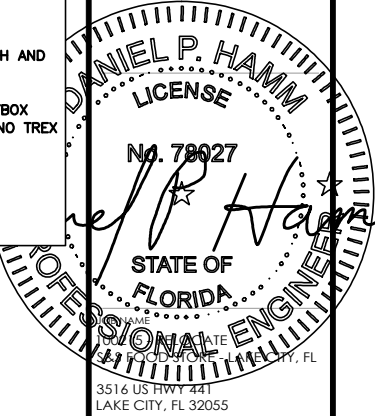
A-2

PROJECT AREA STALL COUNT		
EXISTING STALL COUNT		0
PROPOSED STALL COUNT		6
PROPOSED NON-EV STALL COUNT		0
HOST APPROVED STALL COUNT		0

PROPOSED SIGNET GEN-IV DISPENSER			
	DISPENSER #	KW	CABLE TYPE
EV1	1A	SHARED UP TO 350 KW	CCS
EV2	2	DEDICATED 350 KW	CCS
EV3	3	DEDICATED 350 KW	CCS
EV4	4B	SHARED UP TO 350 KW	CCS
EV5	4A	SHARED UP TO 350 KW	CCS
EV6	1B	SHARED UP TO 350 KW	CCS



- NOTES:**
1. PROPOSED PARKING LOT, BUILDINGS, FUEL CANOPIES, UNDERGROUND FUEL TANKS, DETENTION POND, AND DRAINAGE STRUCTURES SHOWN ON THE A AND E SHEETS ARE BASED ON PROPOSED SITE DESIGN PLANS FROM NORTH FLORIDA PROFESSIONAL SERVICES, INC. AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCY IN THE WORK AREA SHOULD BE BROUGHT TO THE ENGINEER OF RECORD'S ATTENTION FOR APPROVAL.
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 3. EROSION AND SEDIMENTATION CONTROL DESIGNED AND INSTALLED BY OTHERS.
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 6. CONTRACTOR SHALL PROTECT EXISTING LANDSCAPING, TREES, GROUND COVER, AND ROOT SYSTEMS TO THE MAXIMUM EXTENT POSSIBLE.
 7. CONTRACTOR TO NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING WORK.
 8. DISTURBED AREAS AROUND TRANSFORMER AND EQUIPMENT PAD SHALL BE COVERED WITH MULCH AND FILTER FABRIC UNDERLAYMENT.
 9. CONTRACTOR TO PROVIDE KEYSAFE PRO S7 KEYBOX MOUNTED TO TREX FENCE (OR SWITCHGEAR IF NO TREX FENCE). FINAL LOCATION AT DISCRETION OF CONSTRUCTION MANAGER
 10. CONTRACTOR TO RUN CONDUITS FROM POWER CABINETS TO THE FRONT OF DISPENSERS.



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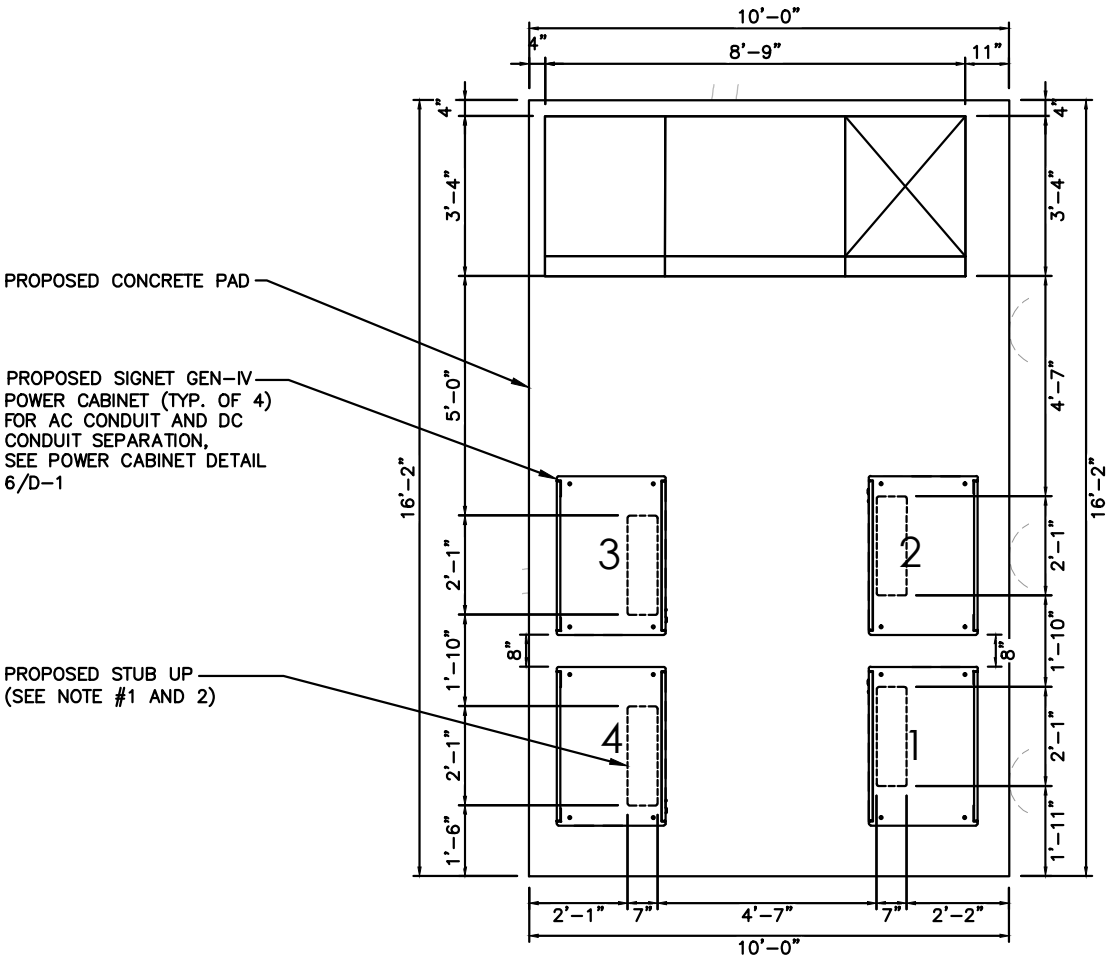
ENLARGED SITE PLAN

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A-3

NOTES:
1. ALL CONDUIT STUBS FOR SHALL HAVE ENOUGH SEPARATION TO INSTALL BELL ENDS ON ALL CONDUITS.



PROPOSED CONCRETE PAD

PROPOSED SIGNET GEN-IV
POWER CABINET (TYP. OF 4)
FOR AC CONDUIT AND DC
CONDUIT SEPARATION,
SEE POWER CABINET DETAIL
6/D-1

PROPOSED STUB UP
(SEE NOTE #1 AND 2)

EQUIPMENT PAD LAYOUT
22x34 SCALE: 1/2"=1'-0"
11x17 SCALE: 1/4"=1'-0"

1
A-4



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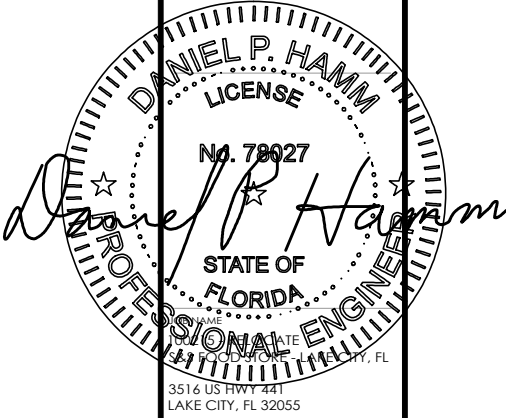
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43 BEECHWOOD DRIVE
N. ANDOVER, MA 01845
TEL: (978) 557-5533
FAX: (978) 538-5584



SHEET TITLE

EQUIPMENT PAD LAYOUT

REV	DATE	DESCRIPTION
1	04-11-22	CD100 S&S
0	03-16-22	CD100
C	03-04-22	PRELIMINARY (CD90)
B	02-15-22	PRELIMINARY (CD90)
A	02-11-22	PRELIMINARY (CD90)

PROJECT NUMBER: 100215 - RELOCATE
DRAWN BY: HC
CHECKED BY: DPH

A-4

NOTES:
1. ELEVATION VIEW IS FOR REVIEW REFERENCE AND NOT TO BE USED FOR CONSTRUCTION. REFER TO LAYOUTS AND DETAIL SHEETS FOR CONSTRUCTION.

PROPOSED SIGNET GEN-IV DISPENSER ON CONCRETE FOUNDATIONS W/ TYPE 1 BOLLARDS (SEE DISPENSER TABLE)

PROPOSED ASPHALT (BY OTHERS)

PROPOSED LIGHT POLE FOUNDATION (RE-USE EXISTING POLE AND FIXTURE)

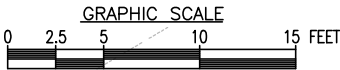
PROPOSED SIGNET GEN-IV POWER CABINET (TYP. OF 4)
PROPOSED TRANSFORMER
PROPOSED SWITCHGEAR

PROPOSED BOLLARD (TYPE 2) (TOTAL OF 6)

ELEVATION

22x34 SCALE: 1"=5'
11x17 SCALE: 1"=10'

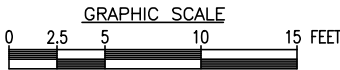
2
A-5



PLAN VIEW

22x34 SCALE: 1"=5'
11x17 SCALE: 1"=10'

1
A-5



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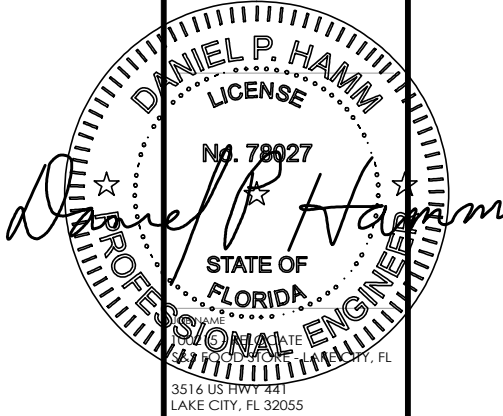
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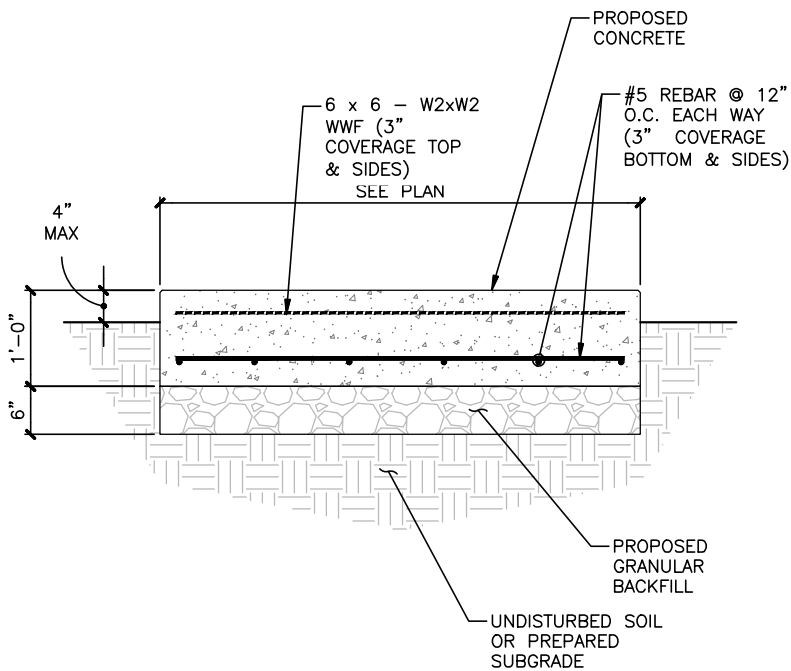
SHEET TITLE

ELEVATION

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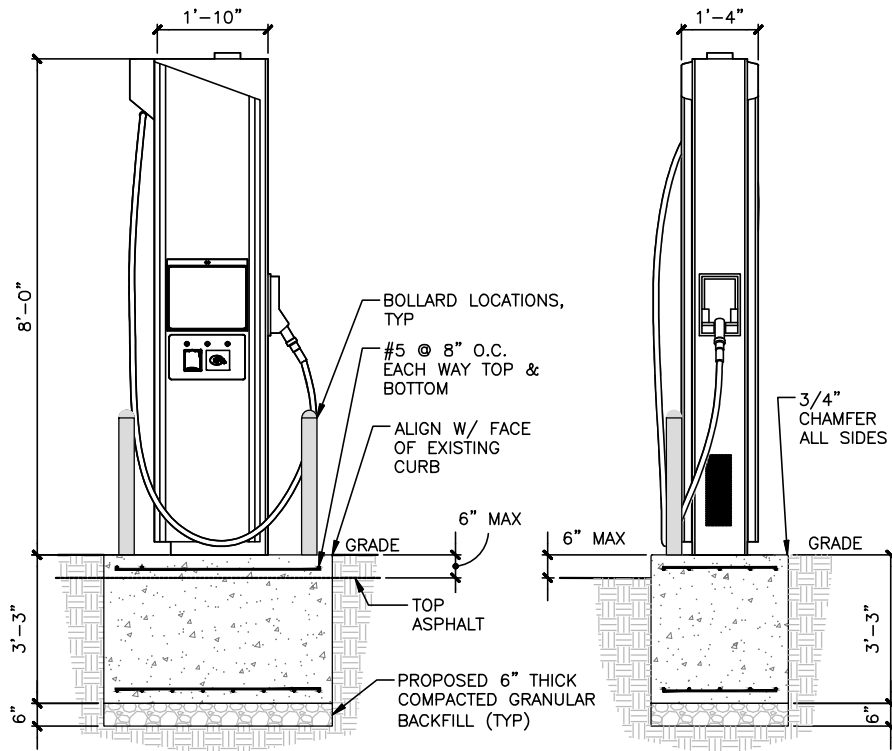
A-5



EQUIPMENT PAD DETAIL
SCALE: N.T.S

1
D-1

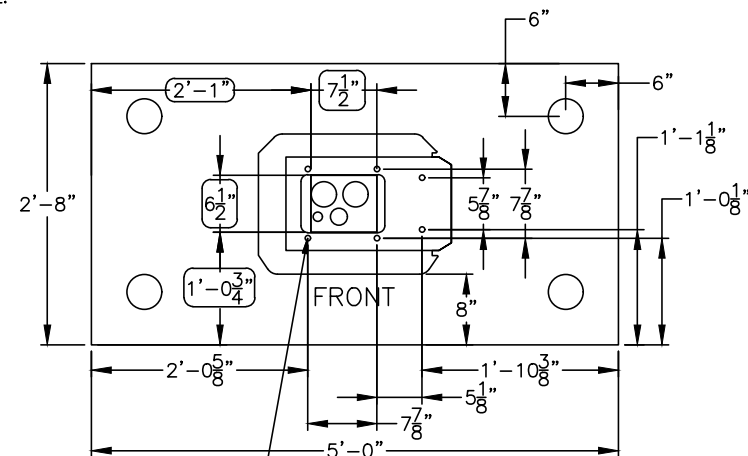
- NOTE:**
1. OPERABLE PARTS OF DISPENSER TO FRONT OF CURB SHALL BE 10" MAX.
 2. OPERABLE PARTS OF DISPENSER SHALL NOT EXCEED 54" ABOVE PARKING SURFACE WHEN DISPENSER IS ON A CURB.
 3. BOLLARDS ARE FOR WARNING PURPOSE ONLY.



DISPENSER PAD SECTION/ELEVATION DETAIL
SCALE: N.T.S

2
D-1

- NOTES:**
1. MINIMUM CONCRETE EDGE DISTANCE FOR PROPOSED ANCHORS SHALL BE 6".
 2. MINIMUM CLEAR SPACING BETWEEN ANCHOR AND CONDUIT SHALL BE 2-1/2 INCHES.
 3. CONTRACTOR TO FIELD VERIFY THE ANCHOR SPACING PER MANUFACTURER'S INSTALLATION MANUAL.



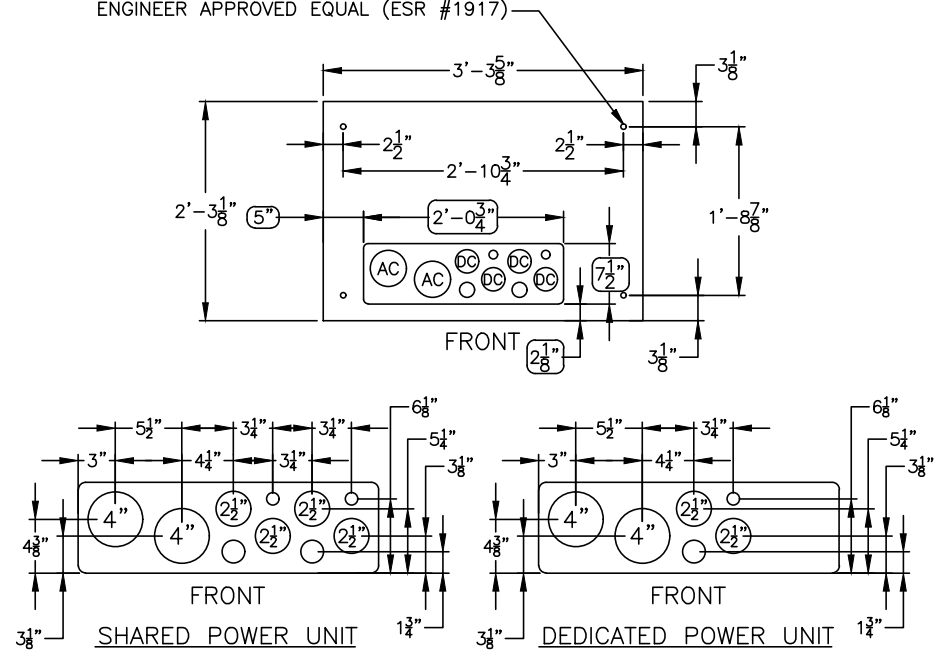
- (6) 1/2" DIA. HILTI KWIK BOLT TZ SS 304/316 MECHANICAL ANCHOR WITH MINIMUM EFFECTIVE EMBEDMENT OF 3 1/4" OR ENGINEER APPROVED EQUAL (ESR #1917)

DISPENSER ANCHORAGE AND CONDUIT ENTRY DETAIL
SCALE: N.T.S

3
D-1

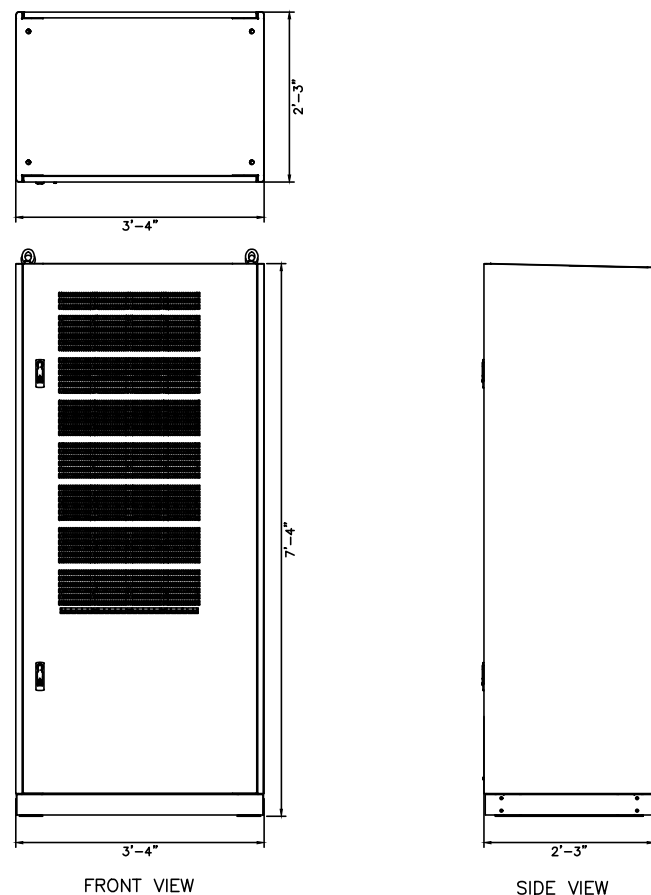
- NOTES:**
1. MINIMUM CONCRETE EDGE DISTANCE FOR PROPOSED ANCHORS SHALL BE 6".
 2. MINIMUM CLEAR SPACING BETWEEN ANCHOR AND CONDUIT SHALL BE 2-1/2 INCHES.
 3. CONTRACTOR TO FIELD VERIFY THE ANCHOR SPACING PER MANUFACTURER'S INSTALLATION MANUAL.

- (4) 5/8" DIA. HILTI KWIK BOLT TZ SS 304/316 MECHANICAL ANCHOR WITH MINIMUM EFFECTIVE EMBEDMENT OF 4" OR ENGINEER APPROVED EQUAL (ESR #1917)



POWER UNIT ANCHORAGE AND CONDUIT ENTRY DETAIL
SCALE: N.T.S

6
D-1



POWER UNIT DETAIL
SCALE: N.T.S

5
D-1

NOT USED
SCALE: N.T.S

4
D-1

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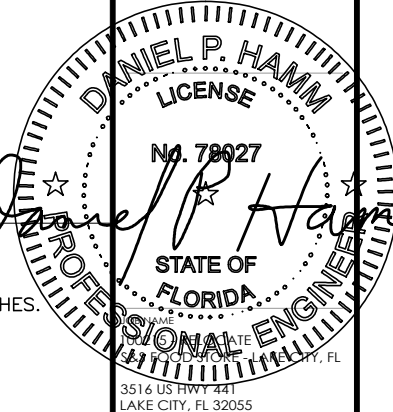
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SHEET TITLE

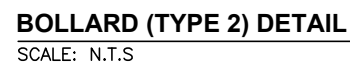
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PROJECT NUMBER: 100215 - RELOCATE
DRAWN BY: HC
CHECKED BY: DPH

D-1

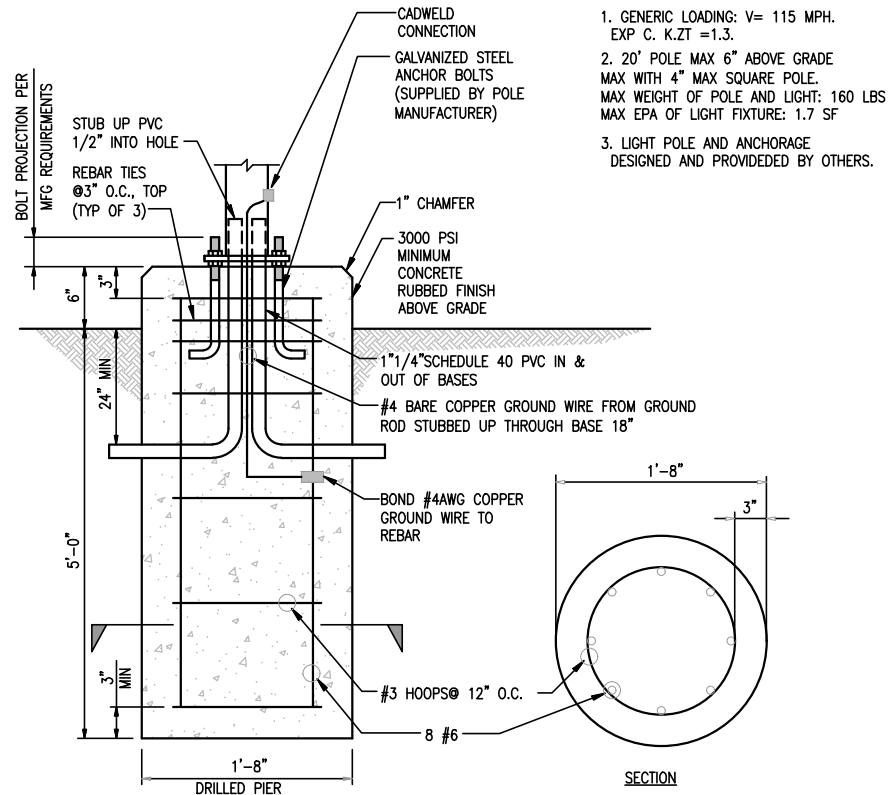
1. SEE FLOOR PLAN IN REFERENCED SWITCHBOARD ASSEMBLY DRAWINGS FOR MOUNTING HOLE LOCATION AND SWITCHBOARD BAY DIMENSIONS.
2. SEE ELEVATION IN REFERENCED SWITCHBOARD ASSEMBLY DRAWINGS FOR BASE CHANNEL DIMENSION.
3. MINIMUM 10 1/2" CONCRETE EDGE DISTANCE REQUIRED FOR PROPOSED ANCHORAGE.



1. BOLLARD IS FOR WARNING PURPOSES ONLY.
2. BOLLARD DETAIL FOR BOLLARDS AROUND ELECTRIFY AMERICA EQUIPMENT.
3. CONTRACTOR TO PROVIDE (2) 6' LONG, 1/2" THICK FOAM STRIPS
CROSSED OVER TOP OF STEEL PIPE TO STABILIZE SLIP COVER.



D-2



LIGHTING FIXTURE, POST, PHOTOCELL DETAIL
SCALE: N.T.S.

1
D-3

NOT USED
SCALE: N.T.S.

2
D-3

NOT USED
SCALE: N.T.S.

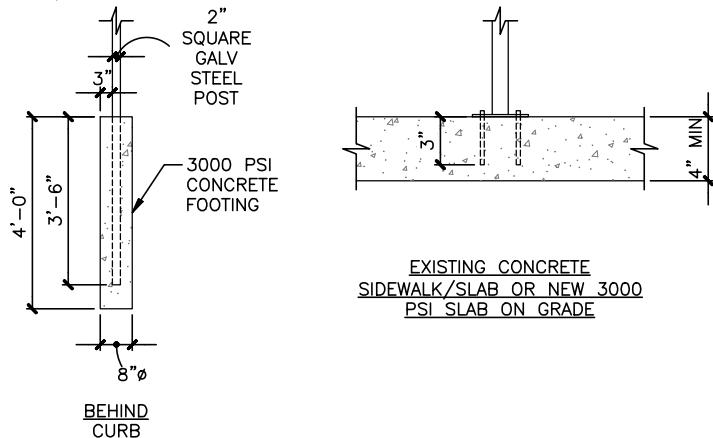
3
D-3

NOTES:

1. CONTRACTOR TO SELECT CONCRETE FOOTING OR BOLT DOWN BASED ON EXISTING CONDITIONS.
2. SEE PROPOSED LAYOUT SHEET FOR PLACEMENT.
3. BOTTOM OF LOWEST SIGN TO BE INSTALLED 66" ABOVE GRADE.
4. ADDITIONAL PARKING SIGNS TO BE INSTALLED 2" ABOVE TOP OF SIGN SPECIFIED IN NOTE #3.
5. SIGN, SIGN POST, AND SIGN FASTENERS TO BE PROVIDED BY CONTRACTOR (CONTRACTOR TO PROVIDE SIGN POST FASTENERS IF REQUIRED AND PAINTED TO MATCH).
6. IF PAINT FINISH IS DAMAGED DURING INSTALLATION, CONTRACTOR SHALL REPAINT AS REQUIRED.
7. CONTRACTOR SHALL COORDINATE WITH CITY WHEN SPECIAL JURISDICTIONAL/CITY REQUESTS ARE NECESSARY FOR ANY SIGN POST INSTALLATION, I.E. POST MATERIAL, PAINT COLORS, HARDWARE, ETC. CONTRACTOR IS RESPONSIBLE FOR ENSURING CITY APPROVES ALL MATERIALS PRIOR TO INSTALLATION.

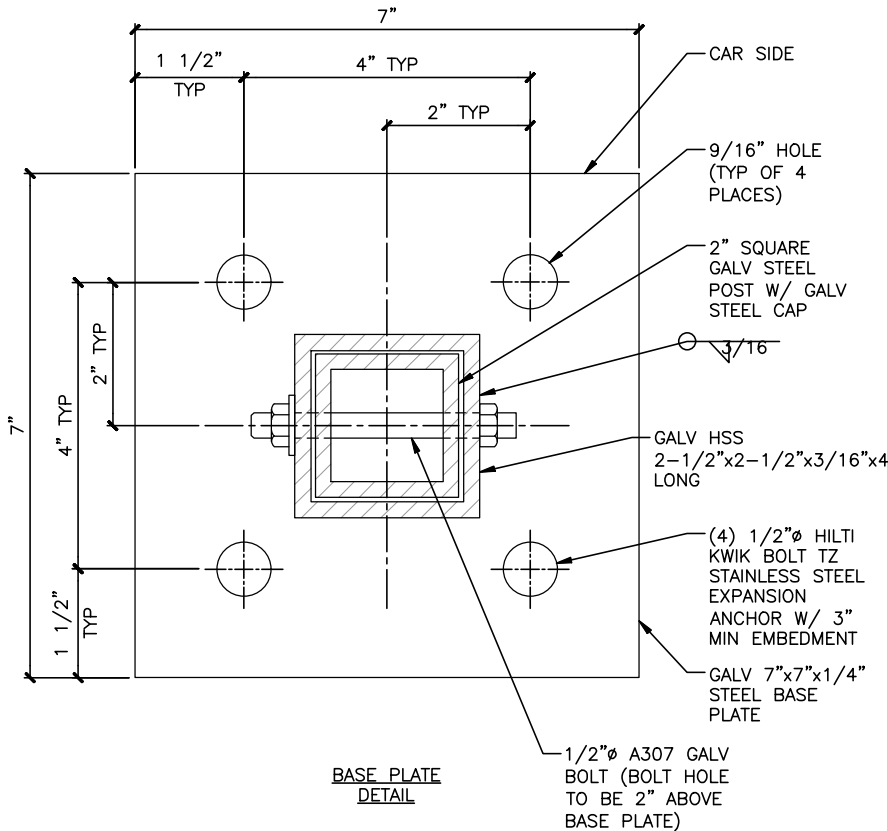
BOLT DOWN BASE PLATE NOTES:

1. CONTRACTOR TO PROVIDE AND INSTALL SIGN POST, BASE PLATE ASSEMBLY, EXPANSION ANCHORS, AND 1/2" A307 BOLT.
2. BASE PLATE ASSEMBLY TO BE HOT DIPPED GALVANIZED. PAINT TO MATCH SIGN POST.
3. PROVIDE 1/4" DRAIN HOLE TO PREVENT WATER FROM COLLECTING IN HSS.



SIGNAGE POST INSTALLATION DETAIL
SCALE: N.T.S.

4
D-3



NOT USED
SCALE: N.T.S.

5
D-3

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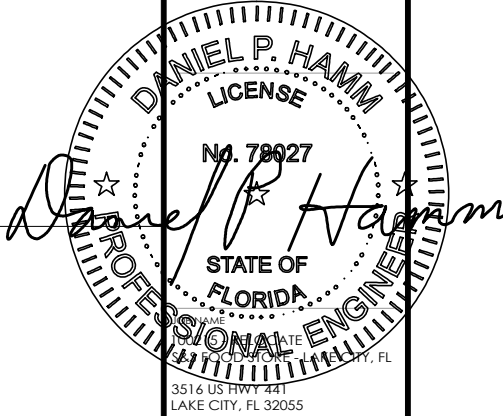
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PROJECT NUMBER: 100215 - RELOCATE
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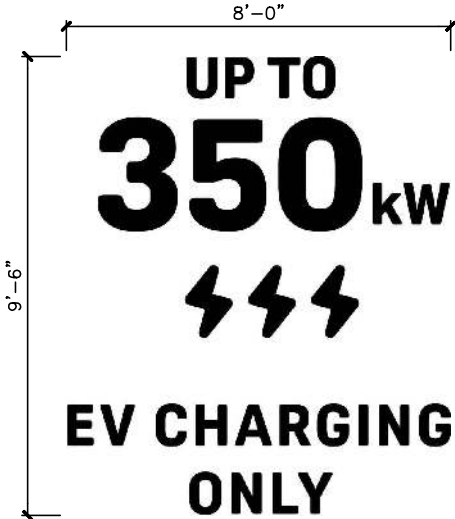
D-3

NOTES

1. BOTTOM OF STENCIL TO BE PLACED 4" ABOVE PAINTED BORDER MARKINGS (OR AT LEADING EDGE OF PARKING STALL)
2. STENCIL TO FIT WITHIN DIMENSIONS SHOWN
3. PAVEMENT MARKING TO BE PAINTED WHITE
4. STENCIL TO BE CENTERED LATERALLY WITHIN PARKING STALL

PAINT SPECIFICATIONS

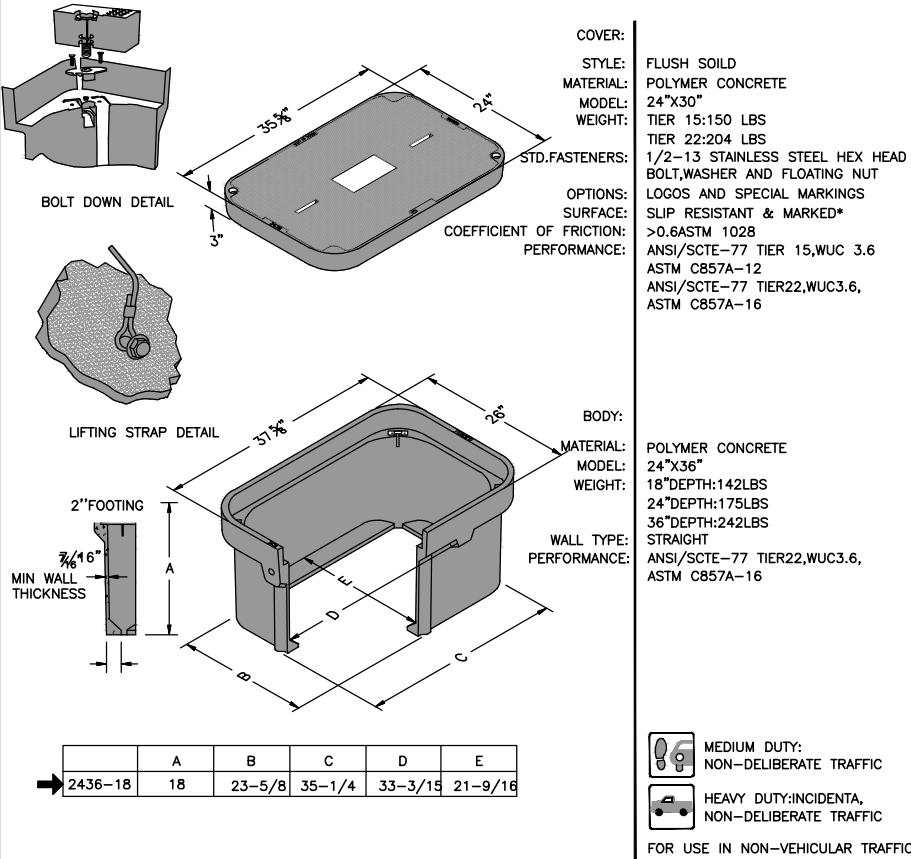
1. PAINT SHALL BE WATERBORNE OR SOLVENT BORNE, COLORS AS SHOWN OR SPECIFIED HEREIN. PAVEMENT MARKING PAINTS SHALL COMPLY WITH APPLICABLE STATE AND LOCAL LAWS ENACTED TO ENSURE COMPLIANCE WITH FEDERAL CLEAN AIR STANDARDS. PAINT MATERIALS SHALL CONFORM TO THE RESTRICTIONS OF THE LOCAL AIR POLLUTION CONTROL DISTRICT.
2. WATERBORNE PAINT: PAINTS SHALL CONFORM TO FS TT-P-1952.
3. SOLVENT BORNE PAINT: PAINT SHALL CONFORM TO FS A-A-2886 OR AASHTO M248. PAINT SHALL BE NON_BLEEDING, QUICK_DRYING, AND ALKYD PETROLEUM BASE PAINT SUITABLE FOR TRAFFIC_BEARING SURFACE AND BE MIXED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS BEFORE APPLICATION .



EV PAVEMENT MARKING DETAIL

SCALE: N.T.S

1
D-4



HANDHOLE DETAIL

SCALE: N.T.S

2
D-4

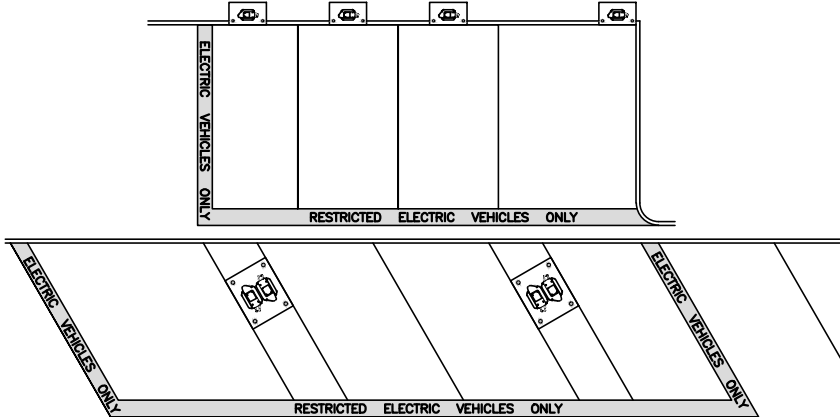
NOT USED

SCALE: N.T.S

3
D-4

NOTES

1. PAINT SHALL BE WATERBORNE OR SOLVENT BORNE, COLORS AS SHOWN OR SPECIFIED HEREIN, PAVEMENT MARKING PAINTS SHALL COMPLY WITH APPLICABLE STATE AND LOCAL LAWS ENACTED TO ENSURE COMPLIANCE WITH FEDERAL CLEAN AIR STANDARDS, PAINT MATERIALS SHALL CONFORM TO THE RESTRICTIONS OF THE LOCAL AIR POLLUTION CONTROL DISTRICT.
2. WATERBORNE PAINT: PAINTS SHALL CONFORM TO FS TT-P-1952.
3. SOLVENT BORNE PAINT: PAINT SHALL CONFORM TO FS A-A-2886 OR AASHTO M248. PAINT SHALL BE NON-BLEEDING, QUICK-DRYING, AND PETROLEUM BASE PAINT SUITABLE FOR TRAFFIC-BEARING SURFACE AND BE MIXED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS BEFORE APPLICATION.
4. CONTRACTOR TO BLOCK OFF STALLS AFTER PAINTING TO ALLOW PAINT TO DRY PROPERLY WITHOUT ANY CONSTRUCTION ACTIVITIES OR PUBLIC ACCESSING THE AREA WHILE THE PAINT IS DRYING.
5. BORDER COLOR-GREEN; RGB-135, 204, 151; HEX #8CC97; CMYK-53/0/51/0; PMS-346C.
6. BORDER MARKINGS AT END OF STALL 18" WIDE, MARKINGS AT SIDES OF STALL 16" WIDE.
7. BORDER MARKINGS SHALL NOT ENCROACH INTO ADJACENT NON-EV STALLS.
8. PROPOSED SURFACE MARKINGS 12" HIGH LETTERS (TYP.) TO BE PAINTED WHITE.
9. SURFACE MARKINGS AT END OF STALL TO READ "RESTRICTED ELECTRIC VEHICLES ONLY", MARKINGS AT SIDES OF STALL TO READ "ELECTRIC VEHICLES ONLY".



PAVEMENT BORDER MARKINGS

SCALE: N.T.S

5
D-4

NOT USED

SCALE: N.T.S

6
D-4

NOT USED

SCALE: N.T.S

4
D-4

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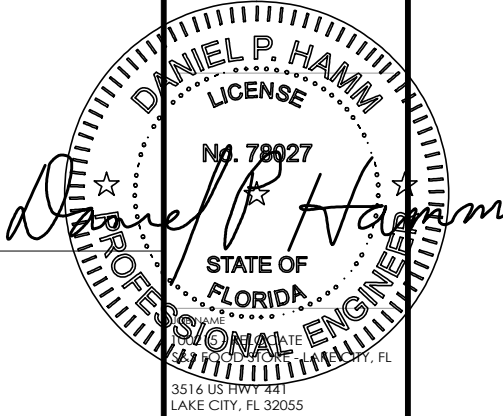
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A	02-11-22	PRELIMINARY (CD90)

PROJECT NUMBER: 100215 - RELOCATE
DRAWN BY: HC
CHECKED BY: DPH

D-4

- NOTES:
1. ALL ELECTRICAL WORK AND RELATED ACTIVITIES ON-SITE SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) STANDARDS AND ENFORCED BY ALL APPLICABLE JURISDICTIONAL REQUIREMENTS AT THE TIME OF CONSTRUCTION.
 2. ALL ALUMINUM CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION.
 3. ALL PVC CONDUIT SHALL HAVE BELL-ENDS AND SEALED WITH DUCT SEAL.
 4. ALL TERMINATION LUGS SHALL BE CRIMPED WITH APPROVED LUG CRIMPER WITH UL CERTIFICATION.
 5. UTILITY EQUIPMENT, PREP WORK, INSTALLATION, AND SCOPE OF WORK RESPONSIBILITIES SHALL BE COORDINATED WITH UTILITY ENGINEER AT TIME OF PRE-CONSTRUCTION MEETING OR BEFORE THE COMMENCEMENT OF CONSTRUCTION.
 6. TRANSFORMER BOLLARD PROTECTION TO BE INSTALLED PER UTILITY SPECIFICATIONS. EXACT QUANTITY, LOCATION, AND SPACING MAY BE AT THE DISCRETION OF THE UTILITY FIELD ENGINEER/INSPECTOR.

	PROVIDED BY	INSTALLED BY	NOTES
BORE – PRIMARY	X	X	N/A
TRENCH – PRIMARY	C	C	
CONDUITS – PRIMARY	C	C	(1) 5" – NO SPARE
CONDUCTORS – PRIMARY	U	U	
UTILITY POLE RISER CONDUITS	U	U	
PULL BOXES	X	X	N/A
TRANSFORMER	U	U	
VAULT / PAD	U	U	
TERMINATIONS – PRIMARY	U	U	U TO MAKE ALL TERMINATIONS INSIDE THE XFMR
TERMINATIONS – SECONDARY	U	U	U TO MAKE ALL TERMINATIONS INSIDE THE XFMR. C TO MAKE ALL TERMINATIONS INSIDE THE SG.
TRANSFORMER BOLLARDS	C	C	NO BOLLARDS NEEDED
METER	U	U	
METER MOUNT	C	C	METER CAN AND MOUNT BY C
CURRENT TRANSFORMERS (CTS)	U	U	CTS IN XFMR BY U
TRENCH – SECONDARY	C	C	
CONDUITS – SECONDARY	C	C	
CONDUCTORS – SECONDARY	C	C	

PROPOSED UTILITY POLE
APPROXIMATE LOCATION
(FINAL LOCATION BY UTILITY
COMPANY FP&L)

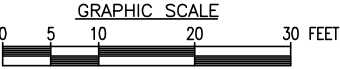
(1) 5" PVC, CONDUITS BY
CONTRACTOR, CONDUCTORS
BY UTILITY.

PROPOSED TRANSFORMER

UTILITY PLAN

22x34 SCALE: 1"=10'
11x17 SCALE: 1"=20'

1
E-1



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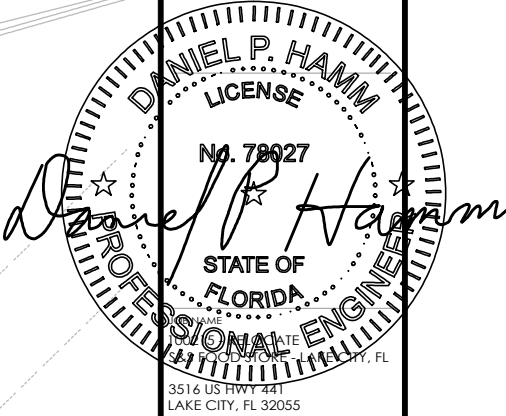
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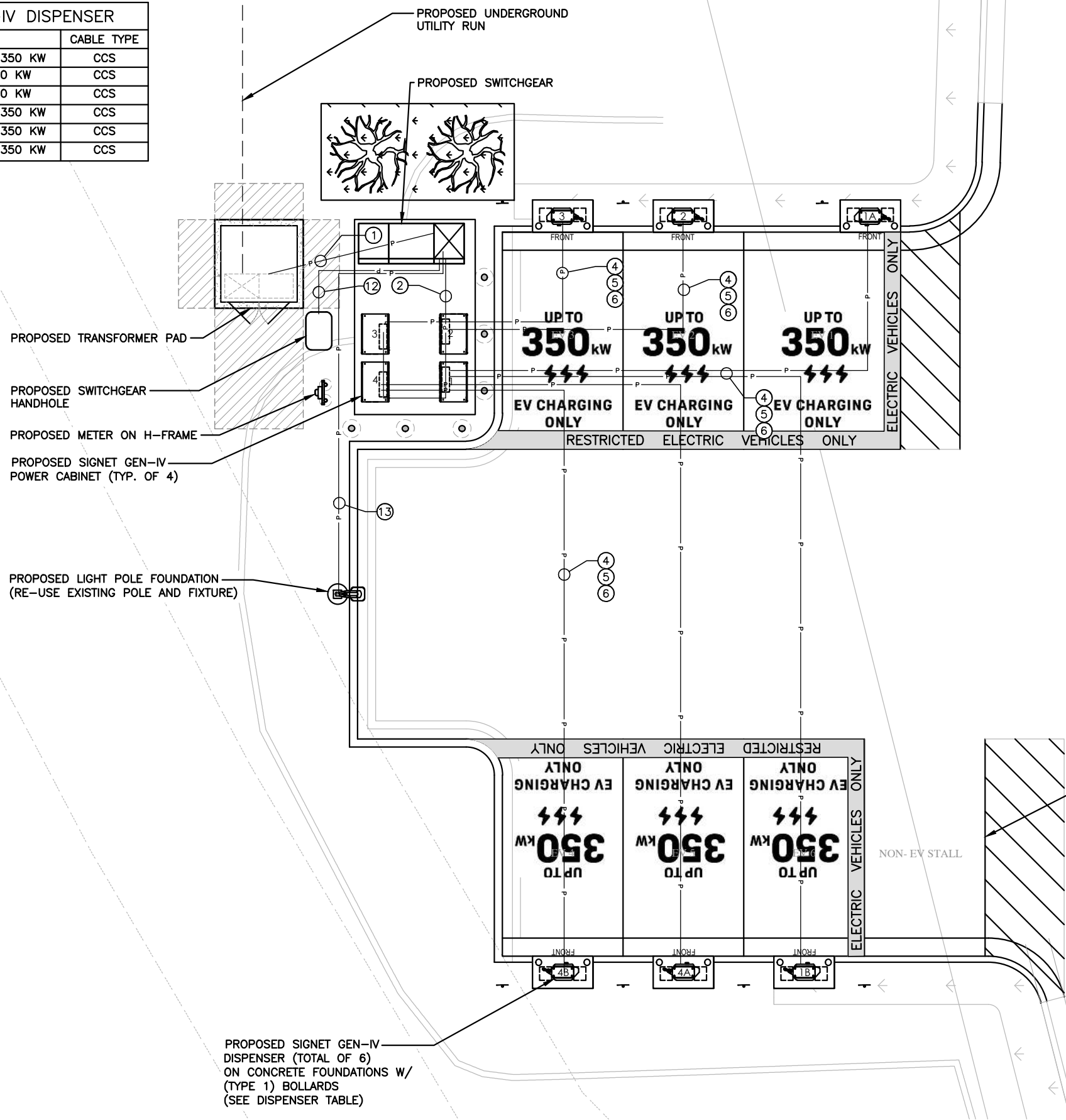
UTILITY PLAN

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CHECKED BY: DPH

E-1

PROPOSED SIGNET GEN-IV DISPENSER			
	DISPENSER #	KW	CABLE TYPE
EV1	1A	SHARED UP TO 350 KW	CCS
EV2	2	DEDICATED 350 KW	CCS
EV3	3	DEDICATED 350 KW	CCS
EV4	4B	SHARED UP TO 350 KW	CCS
EV5	4A	SHARED UP TO 350 KW	CCS
EV6	1B	SHARED UP TO 350 KW	CCS



- NOTES:**
1. CONDUCTOR LENGTHS ARE ESTIMATES ONLY. LENGTHS ARE BASED ON DIAGRAMMATICAL MEASUREMENTS AND APPROXIMATED BURIED DEPTHS. THE EXACT ROUTING PATH AND CONDUCTOR RUN LENGTHS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD BASED ON PHYSICAL MEASUREMENTS. CONTRACTOR TO ORDER CONDUCTORS BASED ON FIELD MEASUREMENTS.
 2. ALL ELECTRICAL WORK AND RELATED ACTIVITIES ON-SITE SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) STANDARDS AND ENFORCED BY ALL APPLICABLE JURISDICTIONAL REQUIREMENTS AT THE TIME OF CONSTRUCTION.
 3. ALL ALUMINUM CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION.
 4. ALL PVC CONDUIT SHALL HAVE BELL-ENDS AND SEALED WITH DUCT SEAL.
 5. ALL TERMINATION LUGS SHALL BE CRIMPED WITH APPROVED LUG CRIMPER WITH UL CERTIFICATION.
 6. UTILITY EQUIPMENT, PREP WORK, INSTALLATION, AND SCOPE OF WORK RESPONSIBILITIES SHALL BE COORDINATED WITH UTILITY ENGINEER AT TIME OF PRECONSTRUCTION MEETING OR BEFORE THE COMMENCEMENT OF CONSTRUCTION.
 7. TRANSFORMER BOLLARD PROTECTION TO BE INSTALLED PER UTILITY SPECIFICATIONS. EXACT QUANTITY, LOCATION, AND SPACING MAY BE AT THE DISCRETION OF THE UTILITY FIELD ENGINEER/INSPECTOR.
 8. CONTRACTOR TO COORDINATE EXACT LOCATION OF H-FRAME MOUNTED METER WITH UTILITY COMPANY.
 9. LANDSCAPING NOT SHOWN FOR CLARITY.
 10. REFER TO E-3 FOR CONDUIT AND WIRING SCHEDULE AS REFERENCED BY (#)
 11. ALL CONDUIT STUBS FOR SHALL HAVE ENOUGH SEPARATION TO INSTALL BELL ENDS ON ALL CONDUITS.
 12. CONTRACTOR TO RUN CONDUITS FROM POWER CABINETS TO THE FRONT OF DISPENSERS.

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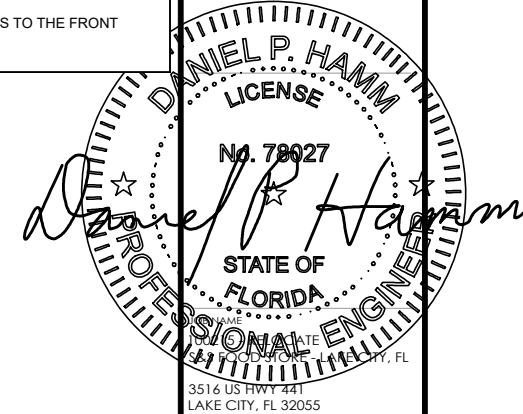
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SHEET TITLE

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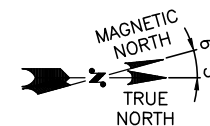
PROJECT NUMBER: 100215 - RELOCATE
DRAWN BY: HC
CHECKED BY: DPH

E-2

**PROPOSED LAYOUT
ELECTRIC PLAN**
22x34 SCALE: 1"=5'
11x17 SCALE: 1"=10'

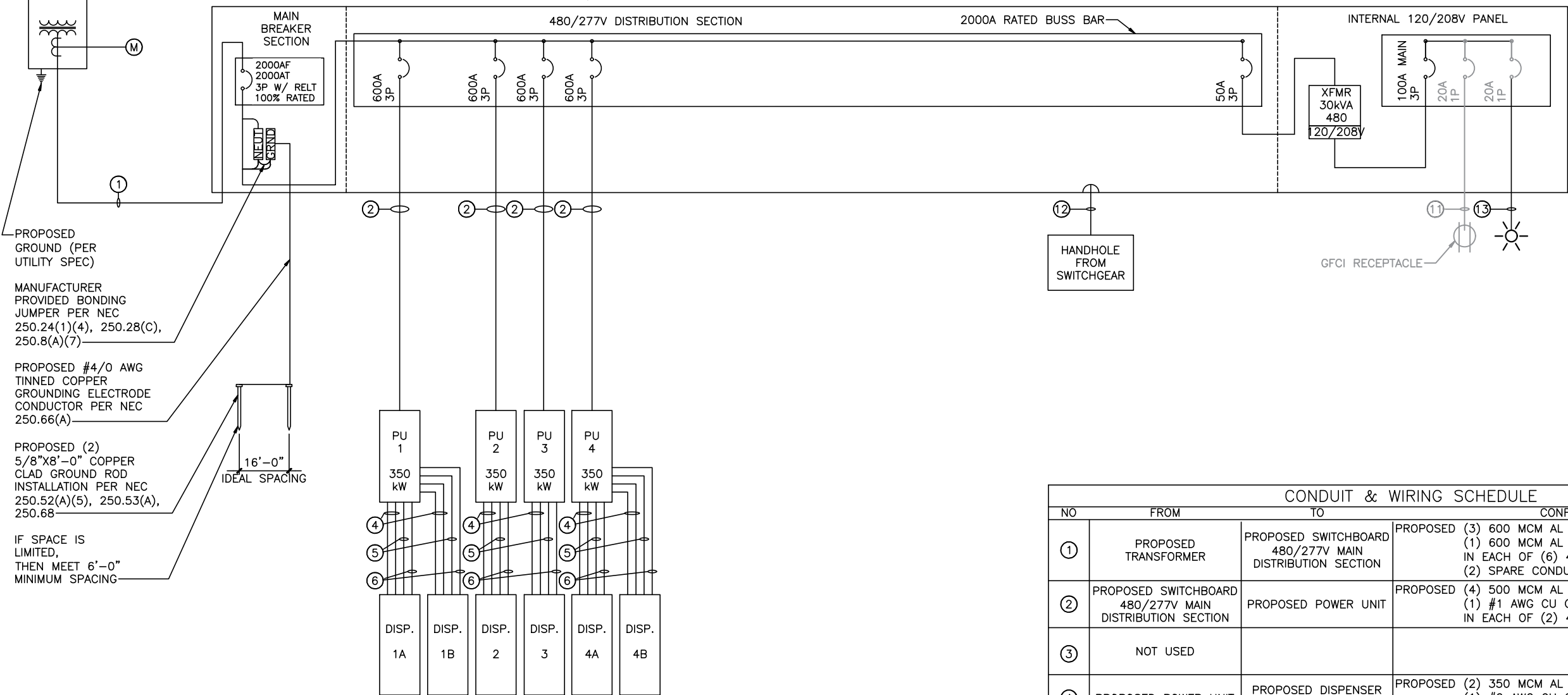
1
E-2

GRAPHIC SCALE
0 2.5 5 10 15 FEET



PROPOSED TBD KVA
TRANSFORMER
480/277V 3P, 4W

2000A SWITCHGEAR, 480/277V, 3 ϕ , 4W
65 kAIC W/ GROUND FAULT PROTECTION



- NOTES:
1. POWER UNITS AND DISPENSERS MANUFACTURED BY SIGNET GEN-IV.
 2. PROPOSED CTs/PTs SHALL BE LOCATED AS APPROVED BY THE UTILITY COMPANY.
 3. MAIN BREAKER IS EQUIPPED WITH REDUCED ENERGY LET THROUGH (RELT) MAINTENANCE SWITCH WITH LOCAL STATUS INDICATION.
 4. SIGNET POWER CABINET RATED 455 FLA.
 5. CONTRACTOR TO REMOVE EXISTING 300A BREAKERS AND REPLACE WITH 600A BREAKERS FOR EACH POWER CABINET (SUPPLIED SAI).
 6. EXISTING LED FIXTURE AND POLE TO BE RE-USED FOR THIS PROPOSED INSTALLATION

ONE-LINE DIAGRAM
SCALE: N.T.S

1
E-3

CONDUIT & WIRING SCHEDULE			
NO	FROM	TO	CONFIGURATION
①	PROPOSED TRANSFORMER	PROPOSED SWITCHBOARD 480/277V MAIN DISTRIBUTION SECTION	PROPOSED (3) 600 MCM AL THWN-2 600V 90°C (1) 600 MCM AL NEUT THWN-2 600V 90°C IN EACH OF (6) 4" CONDUITS (2) SPARE CONDUITS
②	PROPOSED SWITCHBOARD 480/277V MAIN DISTRIBUTION SECTION	PROPOSED POWER UNIT	PROPOSED (4) 500 MCM AL THWN-2 600V 90°C (1) #1 AWG CU GND THWN-2 600V 90°C IN EACH OF (2) 4" CONDUITS
③	NOT USED		
④	PROPOSED POWER UNIT	PROPOSED DISPENSER (DC POWER)	PROPOSED (2) 350 MCM AL XHHW-2 1000V 90°C (1) #2 AWG CU GND THWN-2 600V 90°C IN EACH OF (2) 2-1/2" CONDUITS
⑤	PROPOSED POWER UNIT	PROPOSED DISPENSER (AUX POWER)	PROPOSED (3) #10 AWG CU (1) #10 AWG CU GND (1) 3/4" CONDUIT
⑥	PROPOSED POWER UNIT	PROPOSED DISPENSER (COMM)	PROPOSED (1) BUFFERED I/O MM FIBER (ST/ST CONN) (1) 2-CONDUCTOR #16 AWG TSP (1) CAT 6 (1) 1-1/2" CONDUIT
⑦	NOT USED		
⑧	NOT USED		
⑨	NOT USED		
⑩	NOT USED		
⑪			
⑫	PROPOSED SWITCHBOARD 480/277V MAIN DISTRIBUTION SECTION	HANDHOLE FROM SWITCHGEAR	PROPOSED (1) 3" CONDUIT
⑬	PROPOSED SWITCHGEAR 120/280V SECTION	LED LIGHT	PROPOSED (2) #12 AWG CU (1) #12 AWG CU GND (1) 3/4" CONDUIT

electrify
america

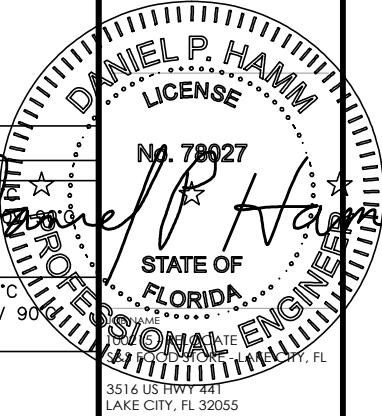
ELECTRIFY AMERICA, LLC
2003 EDMUND HALLEY
DRIVE
SUITE 200
RESTON, VA 20191

SAI

12 INDUSTRIAL WAY
SALEM, NEW HAMPSHIRE 03079

HG
HUDSON
Design Group LLC

48 BEECHWOOD DRIVE
N ANDOVER, MA 01845
TEL: (978) 557-5533
FAX: (978) 538-5584



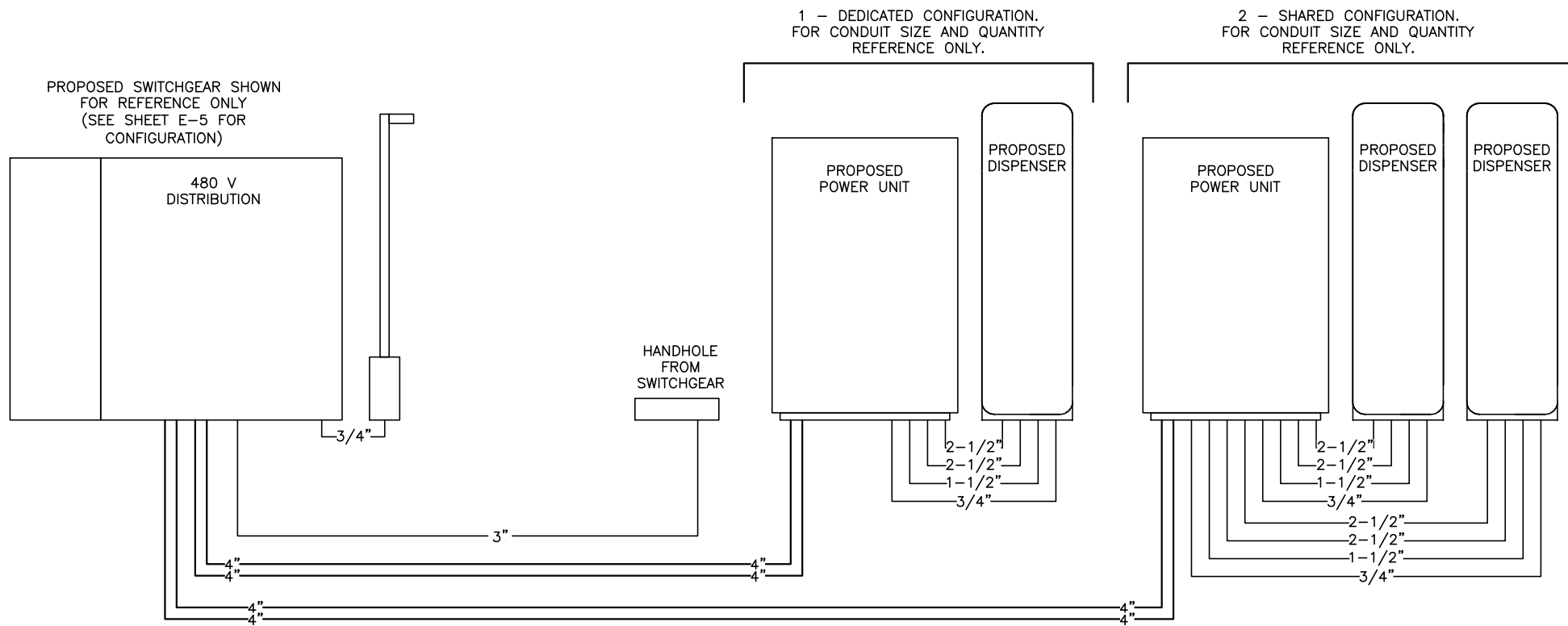
SHEET TITLE

ONE-LINE DIAGRAM

REV	DATE	DESCRIPTION
1	04-11-22	CD100 S&S
0	03-16-22	CD100
C	03-04-22	PRELIMINARY (CD90)
B	02-15-22	PRELIMINARY (CD90)
A	02-11-22	PRELIMINARY (CD90)

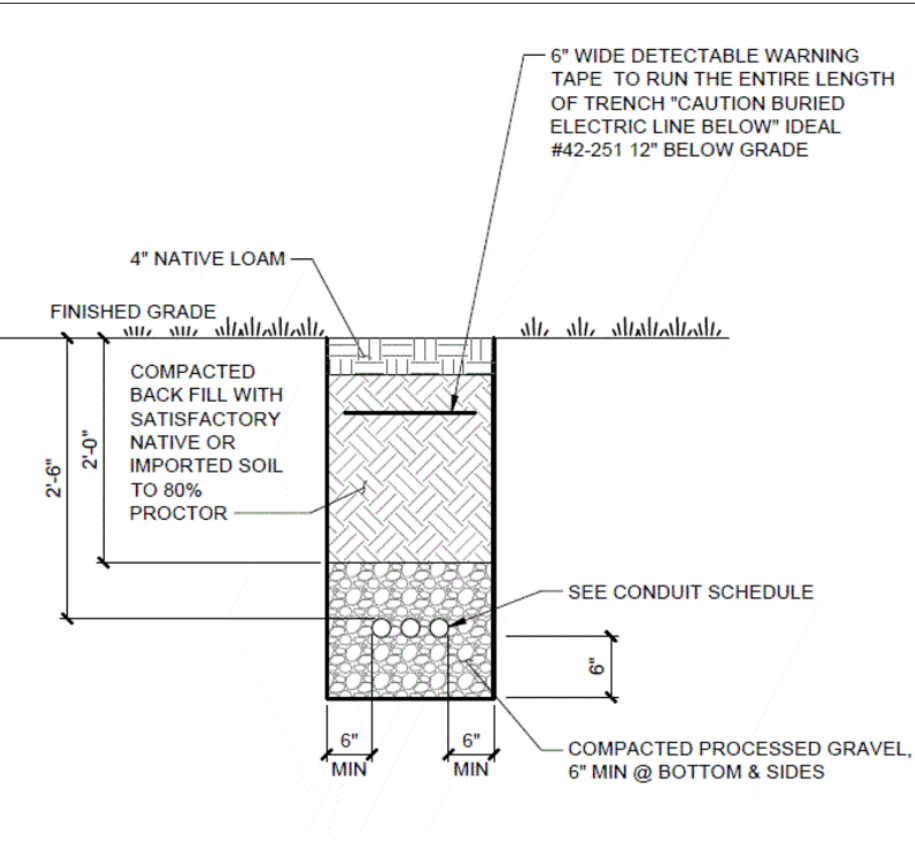
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DRAWN BY: HC
CHECKED BY: DPH

E-3



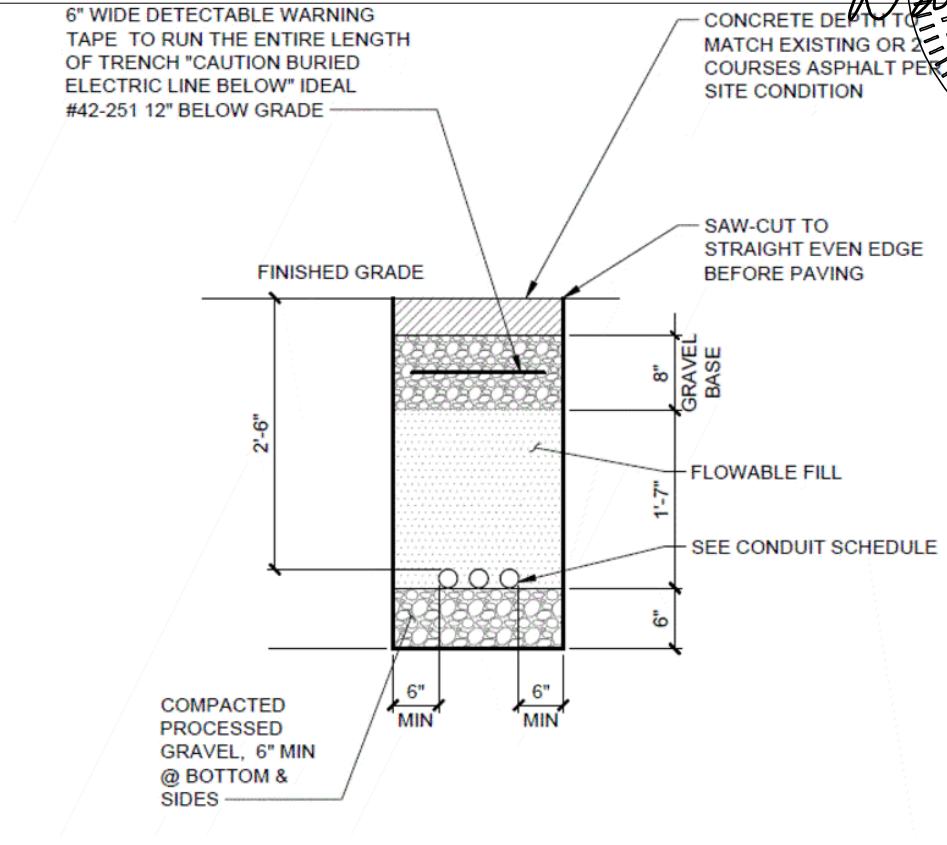
ELECTRICAL CONDUIT DETAILS
SCALE: N.T.S

1
E-4



NON-UTILITY TRENCHING UNDER SOIL DETAIL
SCALE: N.T.S

3
E-4



NON-UTILITY TRENCHING UNDER ASPHALT DETAIL
SCALE: N.T.S

4
E-4

**electrify
america**

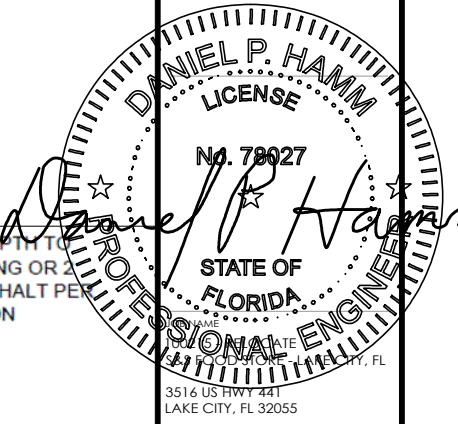
ELECTRIFY AMERICA, LLC
2003 EDMUND HALLEY
DRIVE
SUITE 200
RESTON, VA 20191

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43 BEECHWOOD DRIVE
N. ANDOVER, MA 01845
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FAX: (978) 538-5586



SHEET TITLE

ELECTRICAL DETAILS

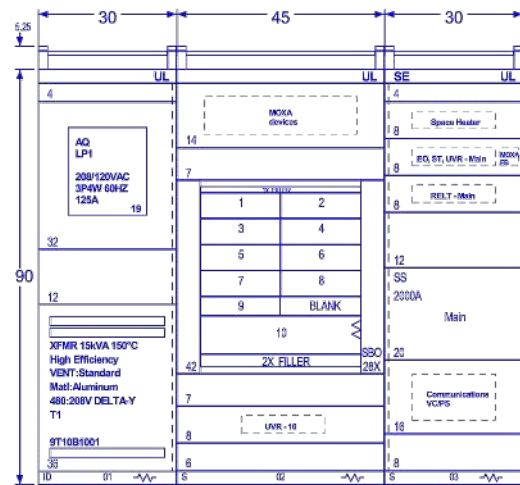
REV	DATE	DESCRIPTION
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0	03-16-22	CD100
C	03-04-22	PRELIMINARY (CD90)
B	02-15-22	PRELIMINARY (CD90)
A	02-11-22	PRELIMINARY (CD90)

PROJECT NUMBER: 100215 - RELOCATE
DRAWN BY: HC
CHECKED BY: DPH

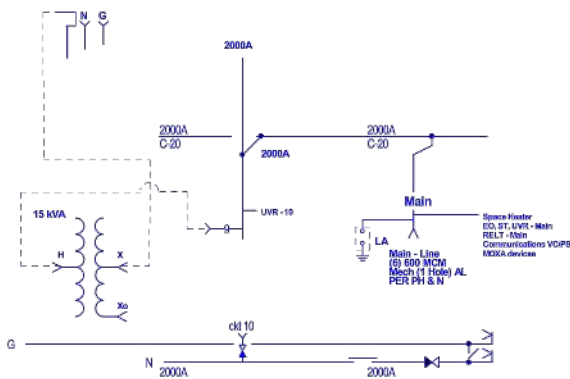
E-4



ACCESS TO: Front Only	PHASE: 3P4W
CLASS: 2	AMPERE: 2000
LABEL: U/L SE	BUS MTL: Al 750A / in ²
VOLTAGE: 480Y/277V	PLATE: Tin Plate
STYLE: Bolt-On	RATING: Fully
BUS BRACING (RMS SYM)	65000 A
DEV. MIN. INT. RATING (RMS SYM)	65000 A
Total Line Up Width: 105	



Front View



Bussing Diagram

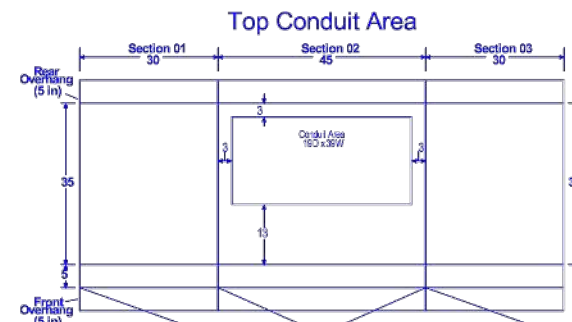
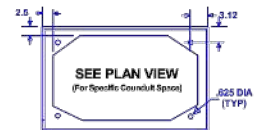
JOB NAME: EA 100215		CUSTOMER: Electrify America		PLANT: MONTERREY		MARK: FL100215 LAKE CITY	
MADE BY: M. Auton	ISSUED: 04/20/2018	CUST. ORDER NO:				151249213	
		REQN. NO: 0702145631		R	8/2/18		
REL BY: MA		ORDER NO: 151249213		NO	DATE	Release to Manufacturing: MA	
						REVISIONS	INITIALS
						SHEET 16-FV1	ITEM 10

HIR 7 0 1092

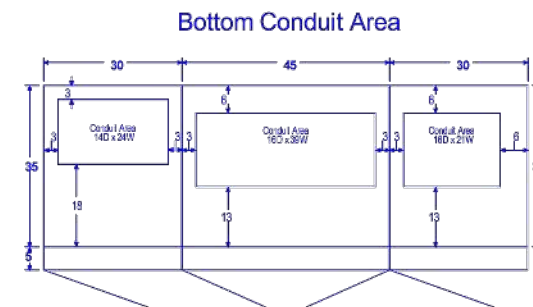


Total Line Up Width:	105
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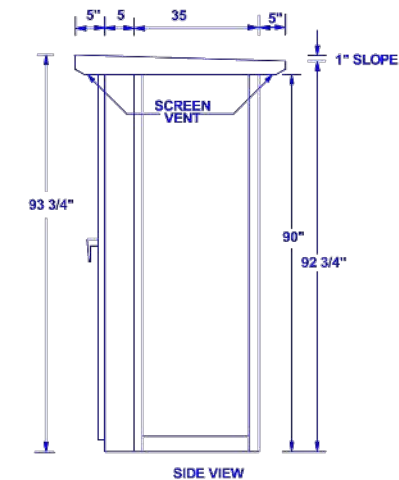
Conduit Detail



Front Plan View



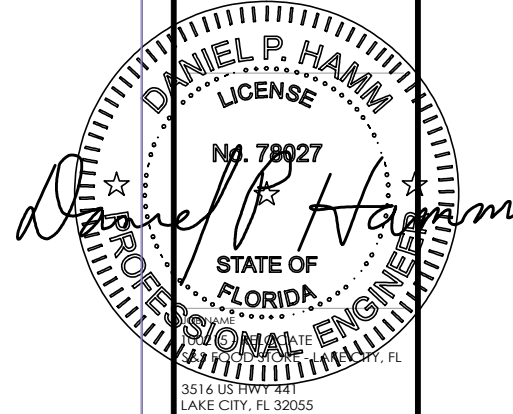
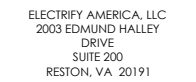
Front Plan View



SIDE VIEW

JOB NAME: EA 100215		CUSTOMER: Electrify America			PLANT: MONTERREY			MARK: FL100215 LAKE CITY		
MADE BY: M. Auton	ISSUED: 04/20/2018	CUST. ORDER NO:						151249213		
REL BY: MA		REQN. NO: 0702145631		R	8/218	Release to Manufacturing. MA				
		ORDER NO: 151249213	NO	DATE	REVISIONS	INITIALS	SHEET 10-CD1	ITEM 10		

HiRes: 7.0.1092



SHEET TITLE

SWITCHGEAR

1	04-11-22	CD100 S&S
0	03-16-22	CD100
C	03-04-22	PRELIMINARY (CD90)
B	02-15-22	PRELIMINARY (CD90)
A	02-11-22	PRELIMINARY (CD90)
REV	DATE	DESCRIPTION

PROJECT NUMBER: 100215 - RELOCATE

DRAWN BY: HC

CHECKED BY: DPH

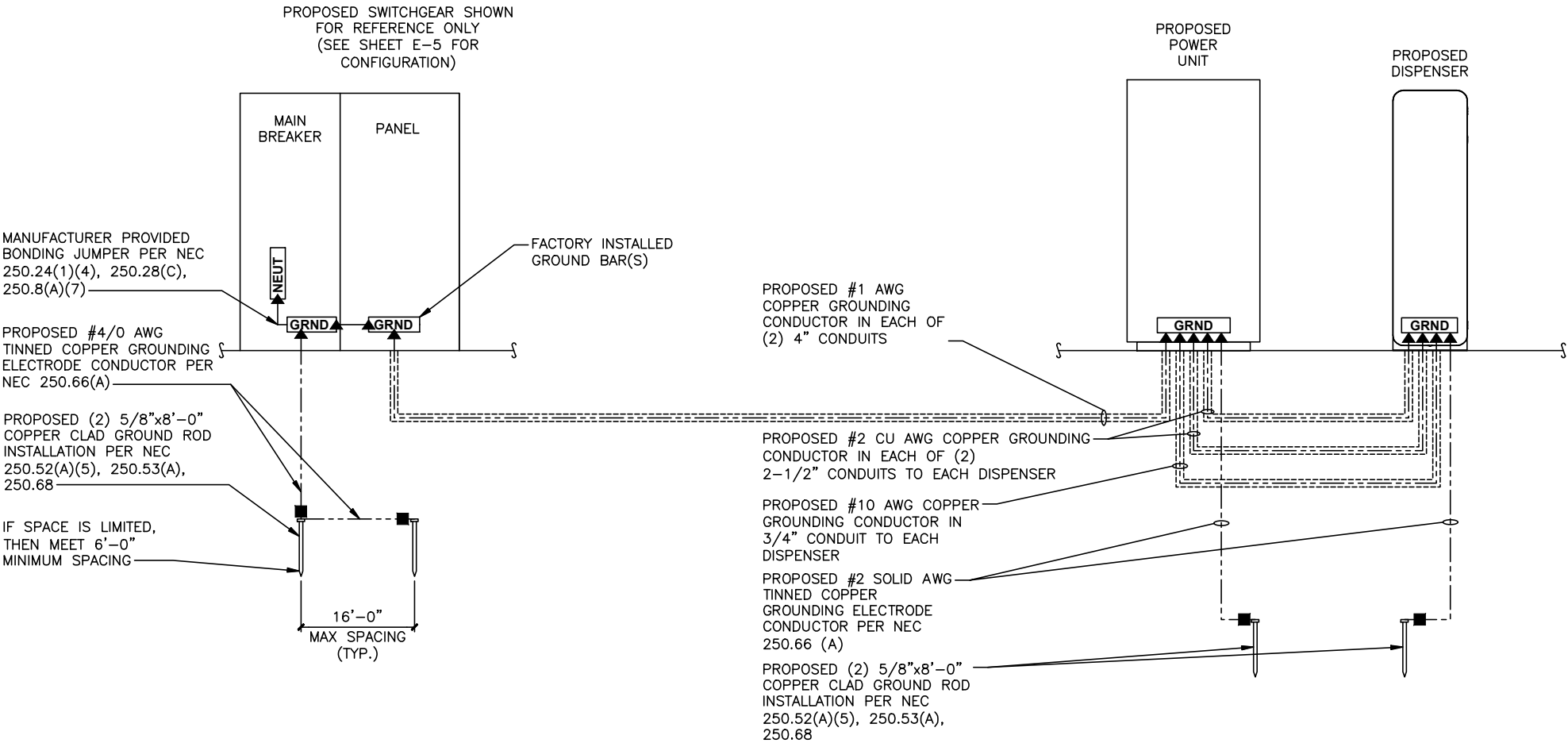
E-5

LEGEND

▲ MECHANICAL CONNECTION

■ CADWELD CONNECTION

- NOTES:
- ALL HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
 - FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
 - ALL TERMINATION LUGS SHALL BE CRIMPED WITH APPROVED LUG CRIMPER WITH UL CERTIFICATION.



GROUNDING SCHEMATIC

SCALE: N.T.S

1
E-6

CADWELD CONNECTIONS (OR APPROVED EQUAL)

CABLE TO REBAR TEE CONNECTION HORIZONTAL CABLE TAP TO VERTICAL REBAR TYPE RJ

PARALLEL HORIZONTAL CONDUCTORS PARALLEL THROUGH CONNECTION OF HORIZONTAL TYPE PT

VERTICAL STEEL SURFACE CABLE DOWN AT 45° TO VERTICAL STEEL SURFACE INCLUDING PIPE TYPE VS

PARALLEL HORIZONTAL CONDUCTORS PARALLEL DEAD END TAP OR HORIZONTAL THRU CONDUCTOR TYPE PC

THROUGH CABLE TO GROUND ROD THROUGH CABLE TO TOP OF GROUND ROD TYPE GT

VERTICAL PIPE CABLE DOWN AT 45° TO RANGE OF VERTICAL PIPES TYPE VS

HORIZONTAL STEEL SURFACE TO FLAT STEEL SURFACE OR HORIZONTAL PIPE TYPE HS

HORIZONTAL SPLICE SPLICE OF HORIZONTAL CABLES

CADWELD CONNECTION DETAIL

SCALE: N.T.S

2
E-6

BURNDY CONNECTIONS (OR APPROVED EQUAL)

"C" CONNECTOR HYPRESS TYPE YGHC

BOND JUMPER FIELD FABRICATED GREEN STRANDED INSULATED TYPE 2-YA-2

COPPER LUGS TWO HOLE - LONG BARREL LENGTH TYPE YA-2

MECHANICAL CONNECTION DETAIL

SCALE: N.T.S

3
E-6

NOT USED

SCALE: N.T.S

4
E-6

DANIEL P. HAMM LICENSE No. 78927 STATE OF FLORIDA PROFESSIONAL ENGINEER

3516 US HWY 441 LAKE CITY, FL 32055

SHEET TITLE

GROUNDING DETAILS

REV	DATE	DESCRIPTION
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A	02-11-22	PRELIMINARY (CD90)

PROJECT NUMBER: 100215 - RELOCATE
DRAWN BY: HC
CHECKED BY: DPH

E-6

electrify america

ELECTRIFY AMERICA, LLC
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