



**WI100199 MADISON
 INSTALLATION OF ELECTRIC VEHICLE CHARGING EQUIPMENT
 WALMART 2335
 4198 NAKOOSA TRAIL
 MADISON, WI 53714**



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



BLACK & VEATCH

6800 W 115th ST, SUITE 2292
 OVERLAND PARK, KS 66211
 (913) 458-2000

SITE INFORMATION

EV SITE ADDRESS:
 4198 NAKOOSA TRAIL
 MADISON, WI 53714

PROPERTY OWNER:
 WALMART
 REAL ESTATE
 BUSINESS TRUST

EQUIPMENT SUPPLIER:
 ELECTRIFY AMERICA, LLC.
 2003 EDMUND HALLEY DRIVE
 SUITE 200
 RESTON, VIRGINIA 20191

POWER COMPANY:
 MADISON GAS & ELECTRIC
 MICHAEL BEELER
 (608) 252-7087

COUNTY:
 DANE

LATITUDE (NAD83):
 43° 06' 36.1" N
 43.110024°

LONGITUDE (NAD83):
 89° 18' 44.5" W
 -89.312346°

CONTACT ENGINEER:
 RUSSELL POLLOM
 (913) 458-6274
 POLLOMRE@BV.COM

APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

2015 INTERNATIONAL BUILDING CODE
 2015 INTERNATIONAL MECHANICAL CODE
 2011 NATIONAL ELECTRICAL CODE
 2009 WISCONSIN STRUCTURAL CODE
 2009 MFPA-1 WISCONSIN FIRE/LIFE SAFETY CODE
 WISCONSIN COMMERCIAL BUILDING CODE
 ADA STANDARDS (WISCONSIN COMMERCIAL BUILDING CODE)
 2009 INTERNATIONAL ENERGY CONSERVATION CODE

IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.

ZONING INFORMATION

PERMITTING JURISDICTION: CITY OF MADISON
ZONING DISTRICT: CC

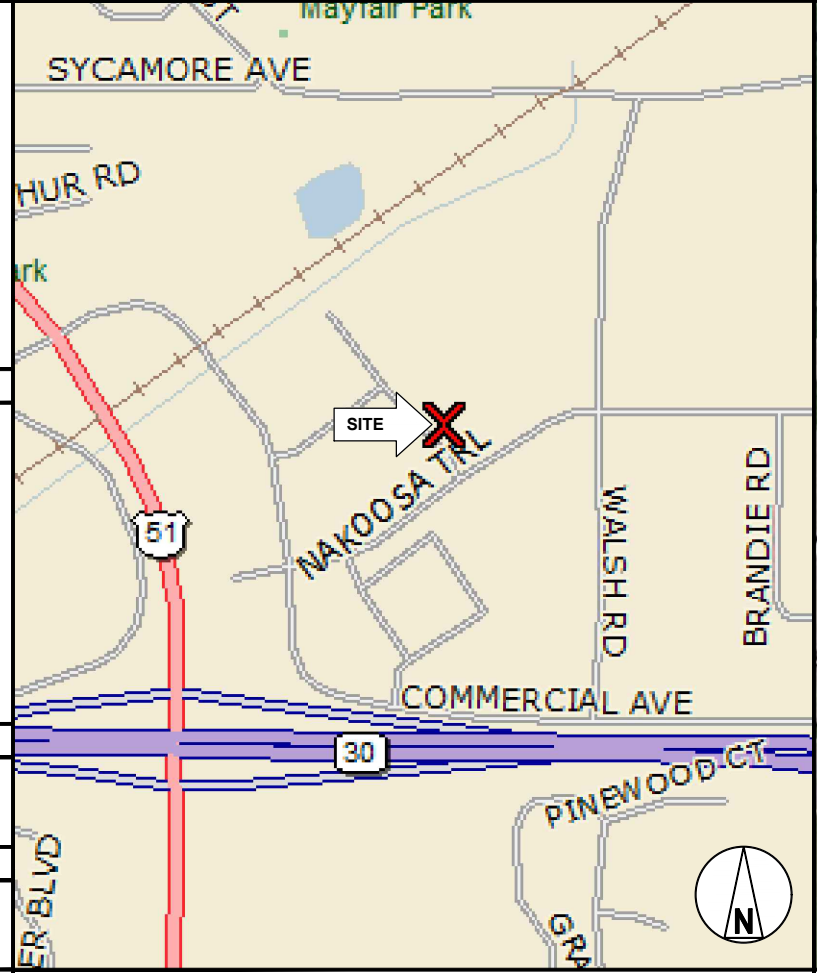
FLOOD HAZARD AREA NOTE

THIS SITE IS LOCATED IN FLOOD ZONE "X". AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN.


CONTRACTOR NOTE

CONTRACTOR SHALL COMPLETE INSTALL PER THE SIGNED AND THE SEALED SET OF DRAWINGS. ANY NECESSARY DEVIATIONS FROM THE DRAWINGS MUST BE SUBMITTED THROUGH AN RFI REQUEST PROCESS WITH ENGINEERING FOR AN APPROVAL PRIOR TO CONTRACTOR PROCEEDING WITH A DEVIATION OF THE SIGNED AND SEALED SET OF DRAWINGS.

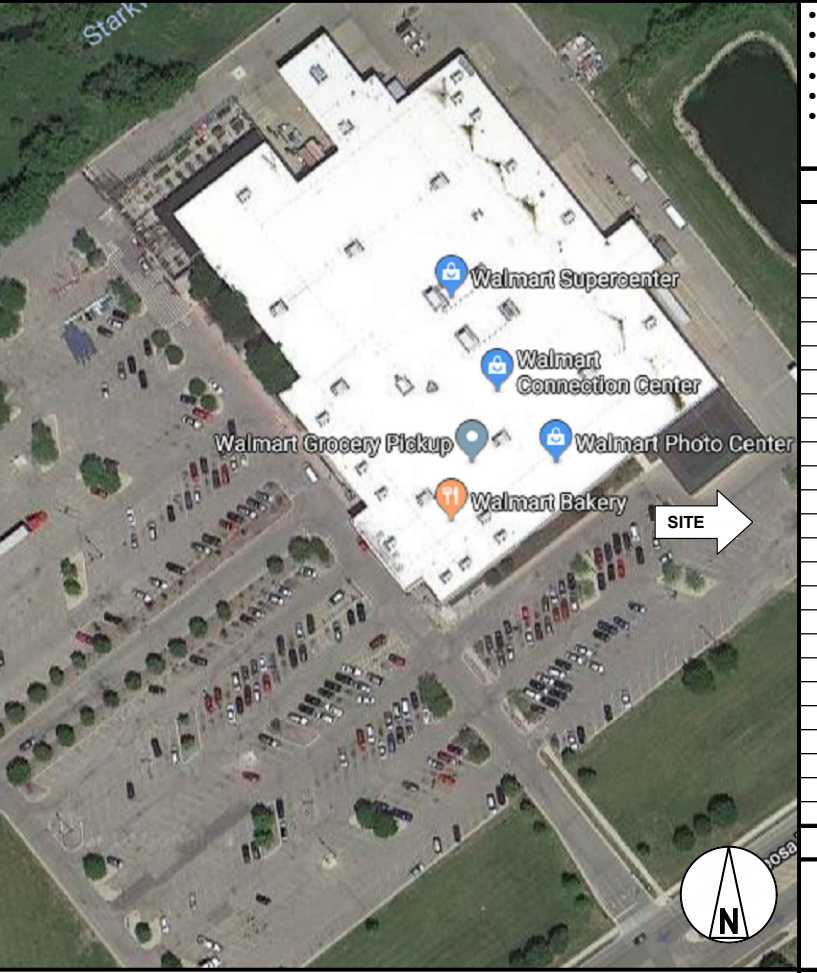
AREA MAP



CALL BEFORE YOU DIG

 UNDERGROUND SERVICE ALERT
 UTILITY NOTIFICATION CENTER OF WISCONSIN
 811 OR 1-800-242-8511
 3 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION

LOCATION MAP



DO NOT SCALE DRAWINGS

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.

PROJECT DESCRIPTION

- INSTALL (1) UTILITY TRANSFORMER
- INSTALL (1) SWITCHBOARD ASSEMBLY
- INSTALL (6) 175KW SIGNET POWER UNITS
- INSTALL (2) 350KW SIGNET DISPENSERS
- INSTALL (2) 175KW SIGNET DISPENSERS
- INSTALL (1) PEDESTAL LIGHT POLE

DRAWING INDEX

SHEET NO:	SHEET TITLE	REV NO:
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GN-1	GENERAL NOTES 1	0
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GN-3	GENERAL NOTES 3	0
C-1	OVERALL SITE PLAN	0
C-2	DEMOLITION SITE PLAN	0
C-3	ENLARGED SITE PLAN	0
C-4	ENLARGED PROPOSED EQUIPMENT LAYOUT	0
C-5	ELEVATION	0
E-1	UTILITY PLAN	0
E-2	ELECTRICAL PLAN	0
E-3	SINGLE LINE DIAGRAM	0
E-4	ELECTRICAL DETAILS	0
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G-1	GROUNDING DETAILS	0
D-1	FENCE DETAILS	0
D-2	EQUIPMENT DETAILS	0
D-3	EQUIPMENT DETAILS	0
LS-1	LANDSCAPING PLAN, DETAILS & PLANT SCHEDULE	0

FOR REFERENCE ONLY DRAWINGS

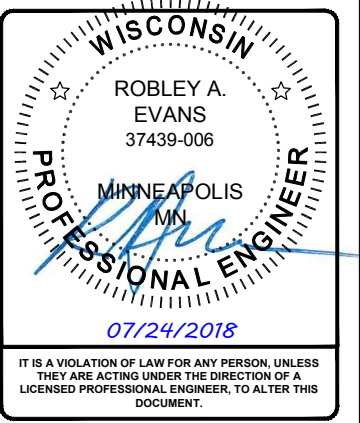
PROPERTY SURVEY
 PHOTOMETRIC STUDY
 STAGING PLAN

ENGINEER OF RECORD

ROBLEY A. EVANS
 PE # 37439-006
 BLACK & VEATCH CORPORATION

PROJECT NO: 197479
 DRAWN BY: PRP
 CHECKED BY: NMB

REV	DATE	DESCRIPTION
0	07/23/18	ISSUED FOR CONSTRUCTION



WI100199 MADISON
 WALMART 2335
 4198 NAKOOSA TRAIL
 MADISON, WI 53714

SHEET TITLE
TITLE SHEET & PROJECT DATA

SHEET NUMBER
T-1

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

GENERAL CONSTRUCTION NOTES

- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY
GENERAL CONTRACTOR: OVERLAND CONTRACTING INC. (BLACK & VEATCH)
CONTRACTOR: (CONSTRUCTION)
OWNER: ELECTRIFY AMERICA
- ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS.
- 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.
- 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.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 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.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 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.
- 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.
- THE GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
- 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.
- THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- 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.
- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- 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.
- 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.
- 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.

GENERAL CONSTRUCTION NOTES CONT.

- 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.
- 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.
- 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.
- 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.
- 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.
- ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
- 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.
- THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- THE CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
- 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).
- NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
- 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.
- THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- 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

- 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.
- 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.
- 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
- 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.
- EXISTING SERVICES: THE CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
- 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.
- THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.

ELECTRICAL NOTES CONT.

- 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.
- CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER OR ALUMINUM WITH TYPE (THWN-2) INSULATION, 600 VOLT, COLOR CODED UNLESS SPECIFIED DIFFERENTLY ON DRAWINGS.
- ALL (THWN-2) WIRING INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- 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.
- 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.
- 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.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
- 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.
- ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
- PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
- 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.
- 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.
- 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.
- 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.
- THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES.
- DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
- 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.
- ALL EXTERIOR AND INTERIOR ABOVE GROUND CONDUIT SHALL BE RIGID UNLESS SPECIFIED OTHERWISE. ALL BURIED CONDUITS SHALL BE SCH 40 PVC UNLESS SPECIFIED OTHERWISE.
- 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 'BRITZ ZINC' OR 'GOLD GALV'.
- SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
- 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.
- THE CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL SERVICE CONDUITS. CAUTION TAPE TO READ "CAUTION BURIED ELECTRIC".
- WHEN DIRECTIONAL BORING IS REQUIRED, CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.
- ALL BOLTS SHALL BE STAINLESS STEEL.
- ALL MATERIALS AND EQUIPMENT SUPPLIED AND INSTALLED BY THE CONTRACTOR SHOULD BE NEW AND UNUSED.



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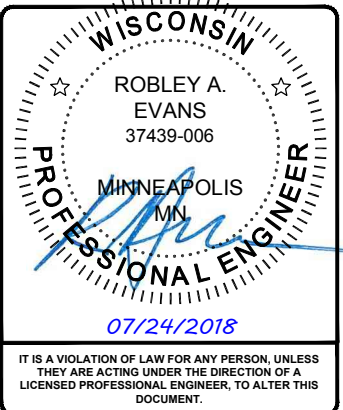


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OVERLAND PARK, KS 66211
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SHEET TITLE
GENERAL NOTES 1

SHEET NUMBER
GN-1

CONCRETE SIDEWALK CONSTRUCTION REQUIREMENTS

1. PLACING AND FINISHING CONCRETE

THE CONTRACTOR SHALL PROVIDE ADEQUATE TOOLS AND EQUIPMENT TO PRODUCE QUALITY WORKMANSHIP IN PLACING AND FINISHING CONCRETE. THE SIDEWALK AND RAMPS SHALL BE FINISHED TO THE TOP OF THE FORMS AND THE SURFACE FINISHED WITH A WOOD OR STEEL FLOAT AND SURFACE TEXTURE SHALL BE A COURSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE SIDEWALK OR RAMP. NO "PLASTERING" OF THE SURFACE SHALL BE PERMITTED.

2. CONTRACTION JOINTS

THE SIDEWALK SURFACE SHALL BE MARKED OFF INTO NOMINAL SQUARES OF DIMENSION TO THE WIDTH OF THE SIDEWALK WITH A MAXIMUM DISTANCE BETWEEN JOINTS OF SEVEN FEET SAWING JOINTS, THE CONTRACTOR SHALL BEGIN AS SOON AS THE CONCRETE HARDENS SUFFICIENTLY TO PREVENT EXCESSIVE RAVELING ALONG THE SAW CUT AND SHALL FINISH BEFORE CONDITIONS INDUCE UNCONTROLLED CRACKS, REGARDLESS OF THE TIME OR WEATHER.

3. EXPANSION JOINTS

EXPANSION JOINTS SHALL BE CONSTRUCTED AT LOCATIONS WHERE THE SIDEWALK ABUTS EXISTING CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES, AND EVERY TWO HUNDRED FIFTY FEET AND AS SHOWN ON APPROVED PLANS. EXPANSION JOINTS SHALL BE FORMED WITH ONE-HALF INCH PREFABRICATED NON-EXTRUDING FILLER AND SHALL EXTEND THE FULL DEPTH OF THE SLAB.

GROUNDING NOTES

1. 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.
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.

GENERAL SITE WORK 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.

1.1 REFERENCES:

- A. DOT (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION-CURRENT EDITION).
- B. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
- C. OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).

1.2 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).

1.3 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.

GENERAL SITE WORK NOTES CONT.

PART 2 - PRODUCTS

2.1 SUITABLE MATERIAL – SUITABLE MATERIAL ARE 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.

2.2 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.

2.3 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

2.4 GRANULAR BEDDING – WELL-GRADED SAND MEETING THE GRADATION REQUIREMENT OF ASTM C 33 FINE AGGREGATE.

2.5 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 .

2.6 BACKFILL – PRODUCTS MEETING THE REQUIREMENTS OF SUITABLE MATERIAL, GRANULAR BEDDING, GRANULAR BACKFILL OR CLSM.

2.7 TOPSOIL – SOIL WITH AN ORGANIC CONTENT SUFFICIENT TO ALLOW VEGETATIVE GROWTH.

PART 3 - EXECUTION

3.1 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.

GENERAL SITE WORK NOTES CONT.

3.2 BACKFILL:

- A. AS SOON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
- B. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
- C. DO NOT PLACE FROZEN MATERIAL IN AS BACKFILL.
- D. PLACE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 8-INCHES LOOSE THICKNESS AND COMPACT TO THE SAME DENSITY AS NATIVE SOIL. WHERE HAND OPERATED COMPACTORS ARE USED, THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4 INCHES IN LOOSE DEPTH AND COMPACTED.
- E. WHENEVER TESTING INDICATES THAT THE CONTRACTOR HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE REQUIREMENTS ARE MET UNLESS OTHERWISE AUTHORIZED BY THE CONSTRUCTION MANAGER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY, SUCH AS DRYING, ADDING WATER, OR INCREASING THE COMPACTIVE EFFORT TO MEET THE COMPACTION REQUIREMENTS.

3.3 TRENCH EXCAVATION:

- A. UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE GENERAL CONTRACTOR. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.
- B. EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE EDGE OF THE OUTERMOST CONDUIT.
- C. WHEN SOFT YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, EXCAVATE THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION, THEN BACKFILL WITH 12" OF GRANULAR BEDDING MATERIAL.

3.4 TRENCH BACKFILL:

- A. PROVIDE GRANULAR BEDDING MATERIAL OR FLOWABLE FILL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.
- B. NOTIFY THE GENERAL CONTRACTOR 24 HOURS IN ADVANCE OF BACKFILLING.
- C. CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.
- D. PLACE GRANULAR TRENCH BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6-INCH UNCOMPACTED LIFTS UNTIL 12 INCHES OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACE AROUND CONDUITS.
- E. PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.
- F. ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 8-INCH MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
- G. COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING UNDISTURBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH

3.5 FINISH GRADING:

- A. PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.
- B. UTILIZE SATISFACTORY FILL MATERIAL RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
- C. REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL CONDITION.

3.6 ASPHALT PAVING ROAD:

WISCONSIN STANDARD SPECIFICATION

PART 4 - WISCONSIN DEPARTMENT OF TRANSPORTATION PAVEMENT

- A. CONTRACTOR RESPONSIBLE FOR RE-STRIPING AND APPLYING SEALCOATING, UNLESS OTHERWISE SPECIFIED.



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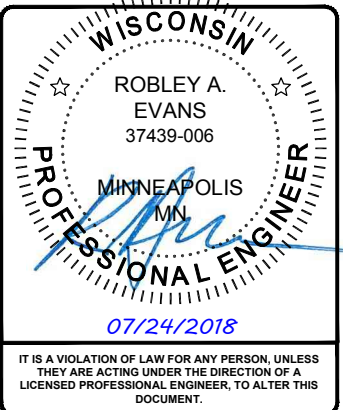


BLACK & VEATCH

6800 W 115th ST, SUITE 2292
OVERLAND PARK, KS 66211
(913) 458-2000

PROJECT NO:	197479
DRAWN BY:	PRP
CHECKED BY:	NMB

REV	DATE	DESCRIPTION
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W1100199 MADISON
WALMART 2335
4198 NAKOOSA TRAIL
MADISON, WI 53714

SHEET TITLE
GENERAL NOTES 2

SHEET NUMBER
GN-2

STRUCTURAL STEEL NOTES

- 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, 46ksi
- 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.
- UNLESS NOTED OTHERWISE ON THE DRAWING, ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36, WITH HEAVY HEXAGONAL NUT.
- FABRICATE ITEMS OF STRUCTURAL STEEL IN ACCORDANCE WITH AISC SPECIFICATION.
- ALL EXPOSED STRUCTURAL STEEL, BOLTS, AND HARDWARE SHALL BE HOT DIP GALVANIZED PER ASTM A123.
- 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.
- PRIMER SHALL BE RED OXIDE-CHROMATE PRIME COMPLYING WITH STEEL STRUCTURES PAINTING COUNCIL (SSPC) PAINT SPECIFICATION NUMBER 11

CONCRETE MASONRY NOTES

- CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT UNITS CONFORMING TO ASTM C90, GRADE N-1, (F'M=1,500 PSI), MEDIUM WEIGHT. (115 PCF)
- MORTAR SHALL BE TYPE "S" ABOVE GRADE, TYPE "M" BELOW GRADE CONFORMING TO ASTM C270. (MINIMUM 2,000 PSI AT 28 DAYS)
- GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS CONFORMING TO ASTM C476.
- ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED ITEMS, ALL CELLS IN RETAINING WALLS, WALLS BELOW GRADE SHALL BE SOLID GROUTED.
- ALL HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAM OR LINTEL BEAM UNITS.
- WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1-1/2" BELOW TOP OF THE UPPERMOST UNIT.
- ALL BOND BEAM BLOCK SHALL BE "DEEP CUT" UNITS.
- PROVIDE INSPECTION AND CLEAN-OUT HOLES AT BASE OF VERTICAL CELLS HAVING GROUT LIFTS IN EXCESS OF 4'-0" OF HEIGHT.
- ALL GROUT SHALL BE CONSOLIDATED WITH A MECHANICAL VIBRATOR.
- CEMENT SHALL BE AS SPECIFIED FOR CONCRETE.
- REINFORCING BARS - SEE NOTES UNDER "REINFORCED CONCRETE NOTES" FOR REQUIREMENTS. REINFORCEMENT SHALL BE PLACED PRIOR TO GROUTING. LAP SPLICES SHALL BE 48 BAR DIAMETERS, MINIMUM.
- PROVIDE ONE BAR DIAMETER (A MINIMUM OF 1/2") GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.
- LOW LIFT CONSTRUCTION, MAXIMUM GROUT POUR HEIGHT IS 4 FEET.
- HIGH LIFT GROUTED CONSTRUCTION MAY BE USED IN CONFORMANCE WITH PROJECT SPECIFICATIONS AND SECTION 2104 OF IBC.
- ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT, EXCEPT AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.
- CELLS SHALL BE IN VERTICAL ALIGNMENT, DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CELLS CONTAINING REINFORCING STEEL.
- REFER TO DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE.
- SAND SHALL BE CLEAN, SHARP AND WELL GRADED, FREE FROM INJURIOUS AMOUNTS OF DUST, LUMPS, SHALE, ALKALI OR ORGANIC MATERIAL.
- ALL MORTAR FIN OBSTRUCTIONS AND DEBRIS SHALL BE CLEANED FROM INSIDE OF CELLS PRIOR TO GROUTING.

REINFORCED CONCRETE NOTES

- CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS UNLESS OTHERWISE NOTED CONTINUOUS INSPECTION IS NOT REQUIRED.
SLUMP: 4" MIN / 6" MAX.
AIR ENTRAPMENT: 4 1/2% - 7% BY VOLUME
- REINFORCEMENT SHALL BE A NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM SPECIFICATION A615 GRADE 60, MAXIMUM COARSE AGGREGATE SIZE SHALL BE 3/4".
- REINFORCEMENT SHALL COMPLY WITH THE LATEST EDITION OF ACI 318 FOR MINIMUM CLEARANCES.
- ALL EMBEDDED ITEMS SHALL BE SECURELY HELD IN POSITION PRIOR TO PLACEMENT OF CONCRETE. ALL CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C94.
- MAINTAIN TEMPERATURE OF CAST IN PLACE CONCRETE BETWEEN 50 DEGREES AND 90 DEGREES FAHRENHEIT.
- DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY-MIX CONCRETE AT THE JOB SITE.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- EXCEPT AS DETAILED OR AUTHORIZED, MAKE BARS CONTINUOUS AROUND CORNERS WHERE PERMITTED, SPLICES MADE BY CONTACT LAPS SHALL BE CLASS "B" TENSION LAPS UNLESS NOTED OTHERWISE.
- DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL", PUBLICATION SP-66 AND " BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318.
- PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING.
- EXPANSION JOINTS SHALL BE CONSTRUCTED AT LOCATIONS WHERE THE CONCRETE PAD ABUTS CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES, AND AS SHOWN ON APPROVED PLANS. EXPANSION JOINTS SHALL BE FORMED WITH ONE-HALF INCH PRE-FABRICATED NON-EXTRUDING FILLER AND SHALL EXTEND THE FULL DEPTH OF THE SLAB.

ANCHORAGE INSTALLATION NOTES

- DRILLING THROUGH EXISTING SLAB REBAR DURING POST-INSTALLED ANCHOR BOLTS INSTALLATION IS NOT PERMITTED.
- 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.
- EXPANSION AND ADHESIVE ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS USING STANDARD EMBEDMENTS AND EDGE DISTANCES UNLESS NOTED OTHERWISE ON THE DRAWINGS.

WALMART DESIGN GUIDELINES

- REFER TO THE PROJECT AREA STALL COUNT TABLE ON SHEET C-3 FOR THE PRE-APPROVED WALMART STALL COUNT.
- IF EXISTING LIGHTING IS DETERMINED TO FALL BELOW THE 2.0-4.5 FC RANGE, ADDITIONAL LIGHTING WILL BE ADDED. REFER TO SHEET C-3 FOR PROPOSED LIGHT POLES (IF APPLICABLE).
- REFER TO THE NOTES SECTION OF WALMART STAGING PLAN REFERENCE SHEET AND SHEET E-1 FOR TRENCHING/BORING INSTRUCTIONS. REFER TO SHEET E-4 FOR TRENCHING UNDER ASPHALT WITH FLOWABLE BACKFILL DETAIL.
- REFER TO NOTES SECTION OF SHEET C-3 FOR SLOPE REQUIREMENTS (IF ACCESSIBLE STALL IS CLEARLY IDENTIFIED.)

IRRIGATION NOTES

- CONTRACTOR TO INSTALL IRRIGATION FOR PROPOSED LANDSCAPING BY TYING INTO NEAREST IRRIGATION SYSTEM. NEW LANDSCAPING TO BE INSTALLED AFTER INSTALLATION OF IRRIGATION SYSTEM.
- INSTALLING ELECTRIC VEHICLE CHARGING STATIONS WILL MOST LIKELY AFFECT THE SITE'S IRRIGATION SYSTEM FOR A PERIOD OF TIME. TO ENSURE THE IRRIGATION SYSTEM IS WORKING AS WELL AS POSSIBLE, THE COMPANY INSTALLING THE EV CHARGING STATION MUST NOTIFY WALMART'S IRRIGATION MONITORING COMPANY AT THREE POINTS DURING CONSTRUCTION.
 - BEFORE DEMO BEGINS, THE INSTALLING COMPANY MUST CALL SC&A (615-469-0943) TO LET THEM KNOW THAT CONSTRUCTION IS STARTING AND DAMAGES MAY BE DONE TO THE IRRIGATION SYSTEM, AS WELL AS PROVIDE AN APPROXIMATE COMPLETION DATE.
 - WHEN IRRIGATION REPAIRS HAVE BEEN COMPLETED, THE INSTALLING COMPANY MUST CALL SC&A (615-469-0943) TO HAVE THE IRRIGATION SYSTEM TESTED REMOTELY TO MAKE SURE IT IS IN PROPER WORKING CONDITION.
 - WHEN CONSTRUCTION IS COMPLETE, THE INSTALLING COMPANY MUST CALL SC&A (615-469-0943) TO HAVE THE IRRIGATION SYSTEM TESTED REMOTELY TO MAKE SURE IT IS IN PROPER WORKING CONDITION.
 - AT ANY OF THE ABOVE TIMES, WALMART'S IRRIGATION MAINTENANCE CONTRACTOR MAY BE CONTACTED TO MEET THE INSTALLER ON SITE TO ENSURE PROPER WORKING OF THE IRRIGATION SYSTEM BEFORE THE INSTALLATION CAN BE CONSIDERED COMPLETE.
- THE INSTALLING COMPANY AND THEIR IRRIGATION SUBCONTRACTOR WILL NOT HAVE ACCESS TO THE IRRIGATION CONTROLLER ON SITE. IF A STATION NEEDS TO BE TURNED ON OR OFF, TESTED, OR RUN, THE INSTALLING COMPANY MUST CALL SC&A (615-469-0943) TO HAVE THESE THINGS DONE REMOTELY.
- THE INSTALLING COMPANY CANNOT TURN OFF THE IRRIGATION SYSTEM OR THE WATER WITHOUT NOTIFYING SC&A (615-469-0943). WALMART HAS THE RIGHT TO PROTECT THEIR PLANT MATERIAL BY USING THE IRRIGATION SYSTEM AND THE INSTALLED CANNOT IMPEDE THAT PROTECTION. THE MONITORING COMPANY WILL BE ALERTED BY THE CONTROLLER IF THE WATER OR THE CONTROLLER IS TURNED OFF.



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

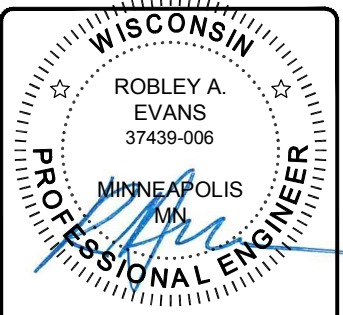


BLACK & VEATCH

6800 W 115th ST, SUITE 2292
OVERLAND PARK, KS 66211
(913) 458-2000

PROJECT NO:	197479
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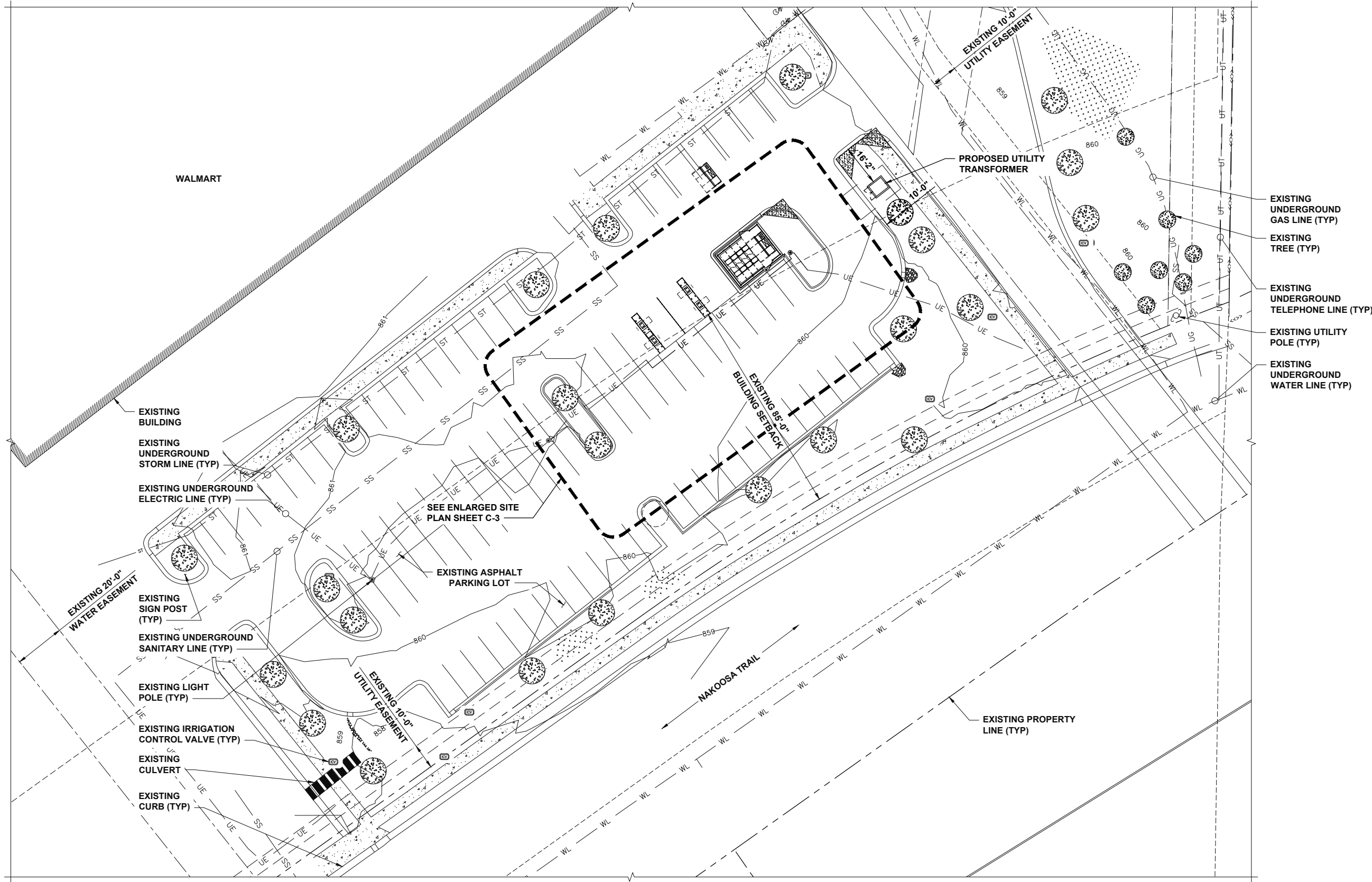

WI100199 MADISON
WALMART 2335
4198 NAKOOSA TRAIL
MADISON, WI 53714

SHEET TITLE
GENERAL NOTES 3

SHEET NUMBER
GN-3

NOTE

1. TRANSFORMER BOLLARD PROTECTION TO BE INSTALLED PER UTILITY SPECIFICATION. ADDITIONAL BOLLARD PROTECTION MAY BE REQUIRED AT THE DISCRETION OF THE UTILITY FIELD INSPECTION PERSONNEL.

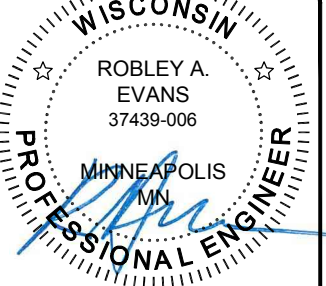
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WISCONSIN
ROBLEY A. EVANS
37439-006
MINNEAPOLIS, MN
PROFESSIONAL ENGINEER
07/24/2018

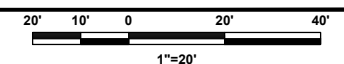
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WALMART 2335
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SHEET TITLE
OVERALL SITE PLAN





SHEET NUMBER
C-1

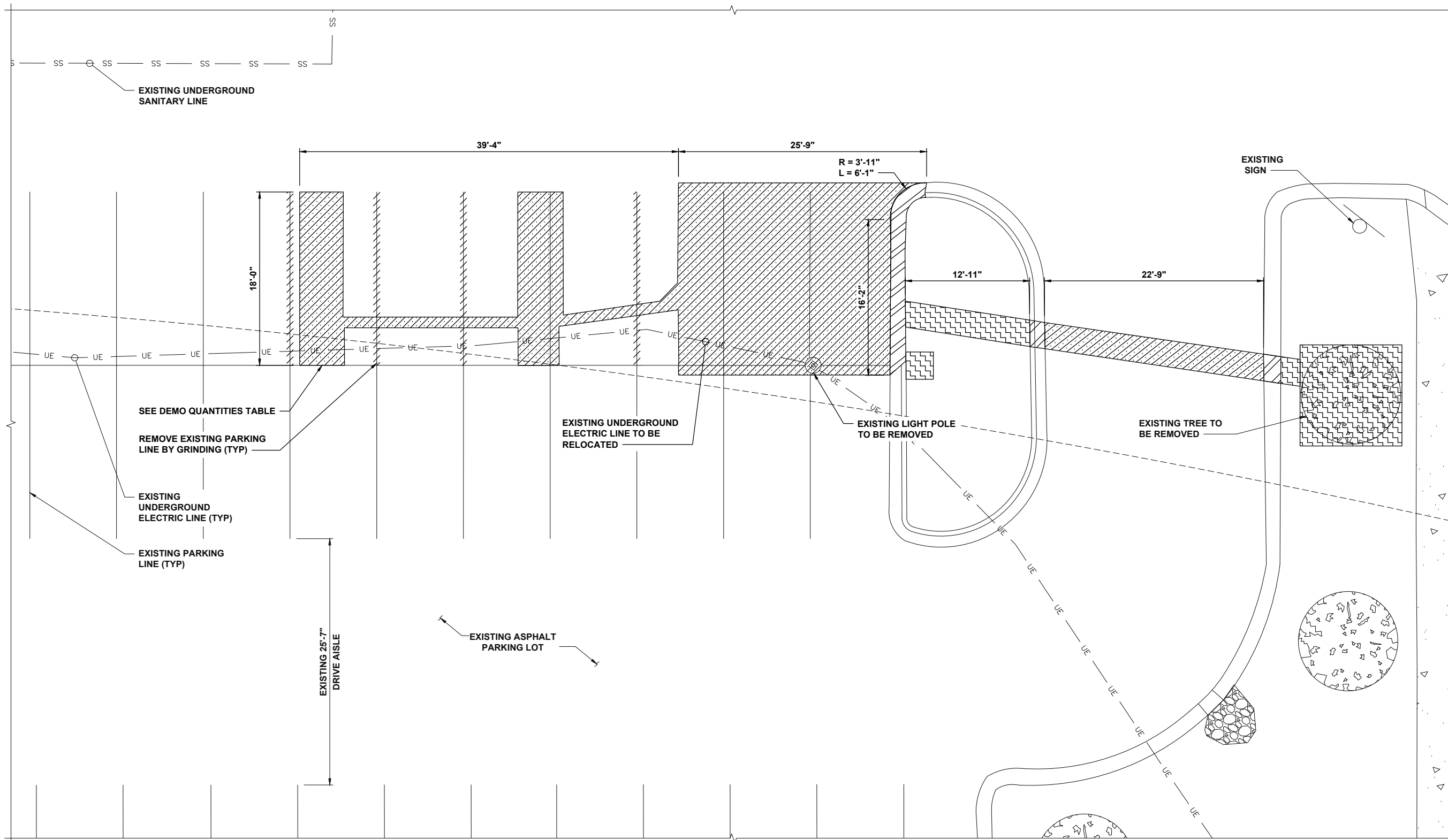
OVERALL SITE PLAN



NOTES

1. THE CONTRACTOR SHALL RETURN SIDEWALKS, LANDSCAPING, PLANTERS, IRRIGATION SYSTEMS, AND ANY OTHER FACILITIES DISTURBED BY THE WORK TO THE SAME OR BETTER CONDITION THAN EXISTED PRIOR TO THE COMMENCEMENT OF THE WORK.
2. ALL QUANTITIES LISTED IN DEMOLITION PLAN SHEET ARE ONLY APPROXIMATIONS. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES BEFORE BIDDING.

DEMO QUANTITIES TABLE		
	ASPHALT	79 SQ YDS
	CURB	22 LF
	PARKING LINES	GRINDING
	LANDSCAPING	159 SQ FT



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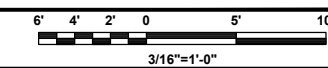
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ROBLEY A. EVANS
37439-006
MINNEAPOLIS, MN
PROFESSIONAL ENGINEER
07/24/2018
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WALMART 2335
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MADISON, WI 53714

SHEET TITLE
DEMOLITION SITE PLAN

SHEET NUMBER
C-2

DEMOLITION SITE PLAN

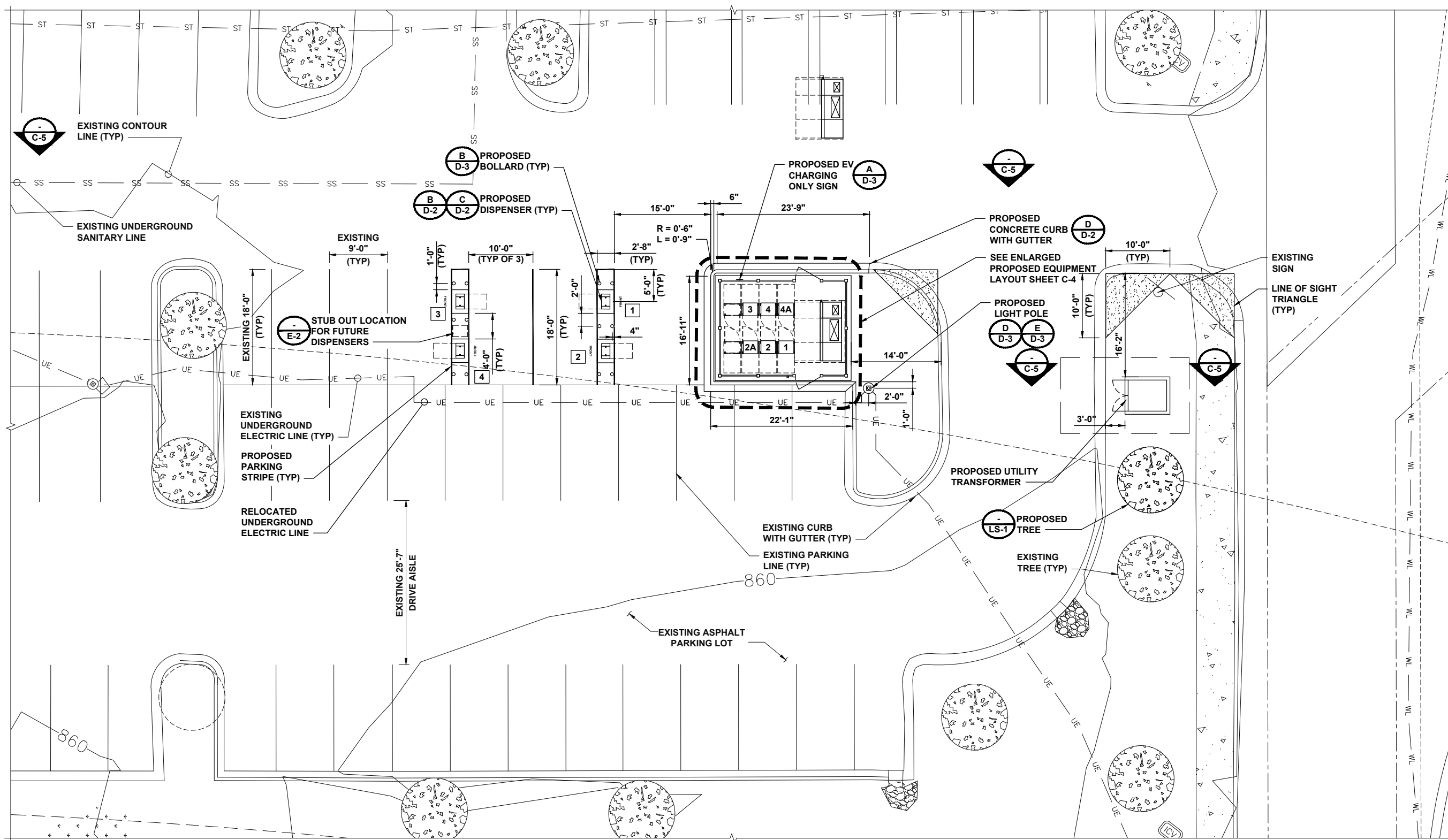


NOTES

- 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.
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PROJECT AREA STALL COUNT	
EXISTING STALL COUNT	8
PROPOSED STALL COUNT	4
WALMART APPROVED STALL COUNT	9

PROPOSED DISPENSER			
DISPENSER NUMBER	175 KW	350 KW	CABLE TYPE
1	1		CHAdcMO/ CCS
2		1	CCS
3	1		CCS
4		1	CCS



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

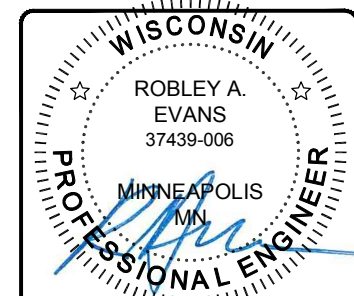


BLACK & VEATCH

6800 W 115th ST, SUITE 2292
OVERLAND PARK, KS 66211
(913) 458-2000

PROJECT NO: 197479
DRAWN BY: PRP
CHECKED BY: NMB

REV	DATE	DESCRIPTION
0	07/23/18	ISSUED FOR CONSTRUCTION



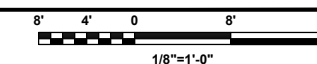
07/24/2018
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WI100199 MADISON
WALMART 2335
4198 NAKOOSA TRAIL
MADISON, WI 53714

SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
C-3

ENLARGED SITE PLAN





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

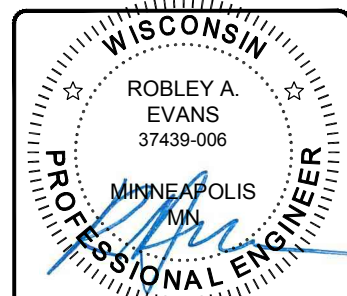


BLACK & VEATCH

6800 W 115th ST, SUITE 2292
OVERLAND PARK, KS 66211
(913) 458-2000

PROJECT NO: 197479
DRAWN BY: PRP
CHECKED BY: NMB

REV	DATE	DESCRIPTION
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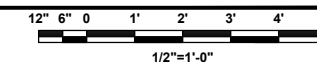
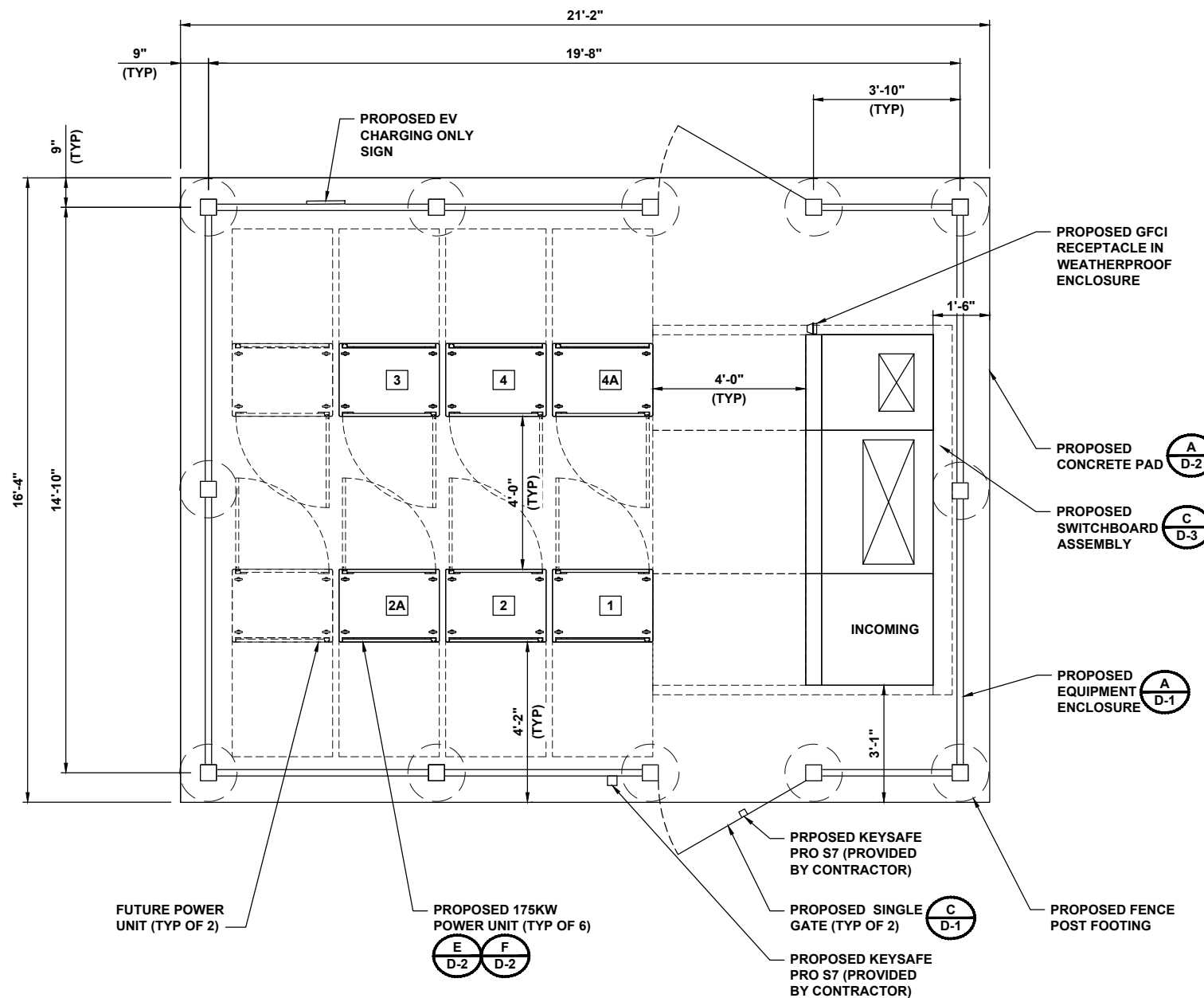
07/24/2018

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WI100199 MADISON
WALMART 2335
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MADISON, WI 53714

SHEET TITLE
**ENLARGED PROPOSED
EQUIPMENT LAYOUT**

SHEET NUMBER
C-4



ENLARGED PROPOSED EQUIPMENT LAYOUT



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



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OVERLAND PARK, KS 66211
(913) 458-2000

PROJECT NO: 197479
DRAWN BY: PRP
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REV	DATE	DESCRIPTION
0	07/23/18	ISSUED FOR CONSTRUCTION

WISCONSIN
★ ROBLEY A. EVANS ★
37439-006
MINNEAPOLIS
MN
PROFESSIONAL ENGINEER

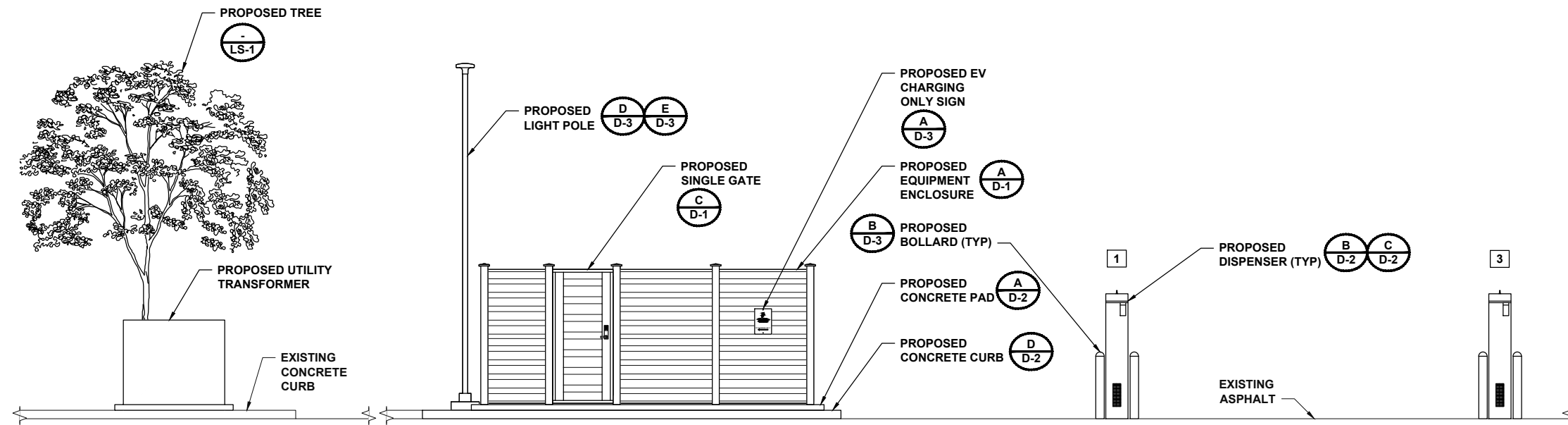
07/24/2018

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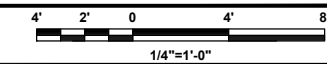
WI100199 MADISON
WALMART 2335
4198 NAKOOSA TRAIL
MADISON, WI 53714

SHEET TITLE
SITE ELEVATION

SHEET NUMBER
C-5



SITE ELEVATION

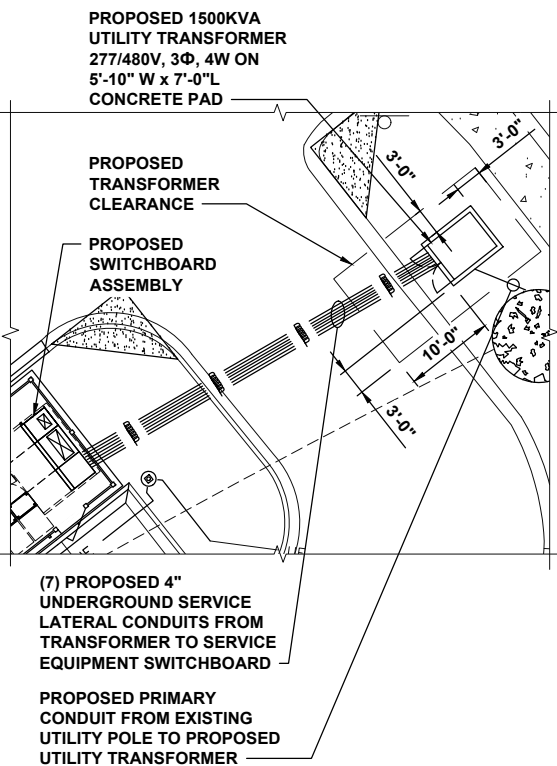


NOTES

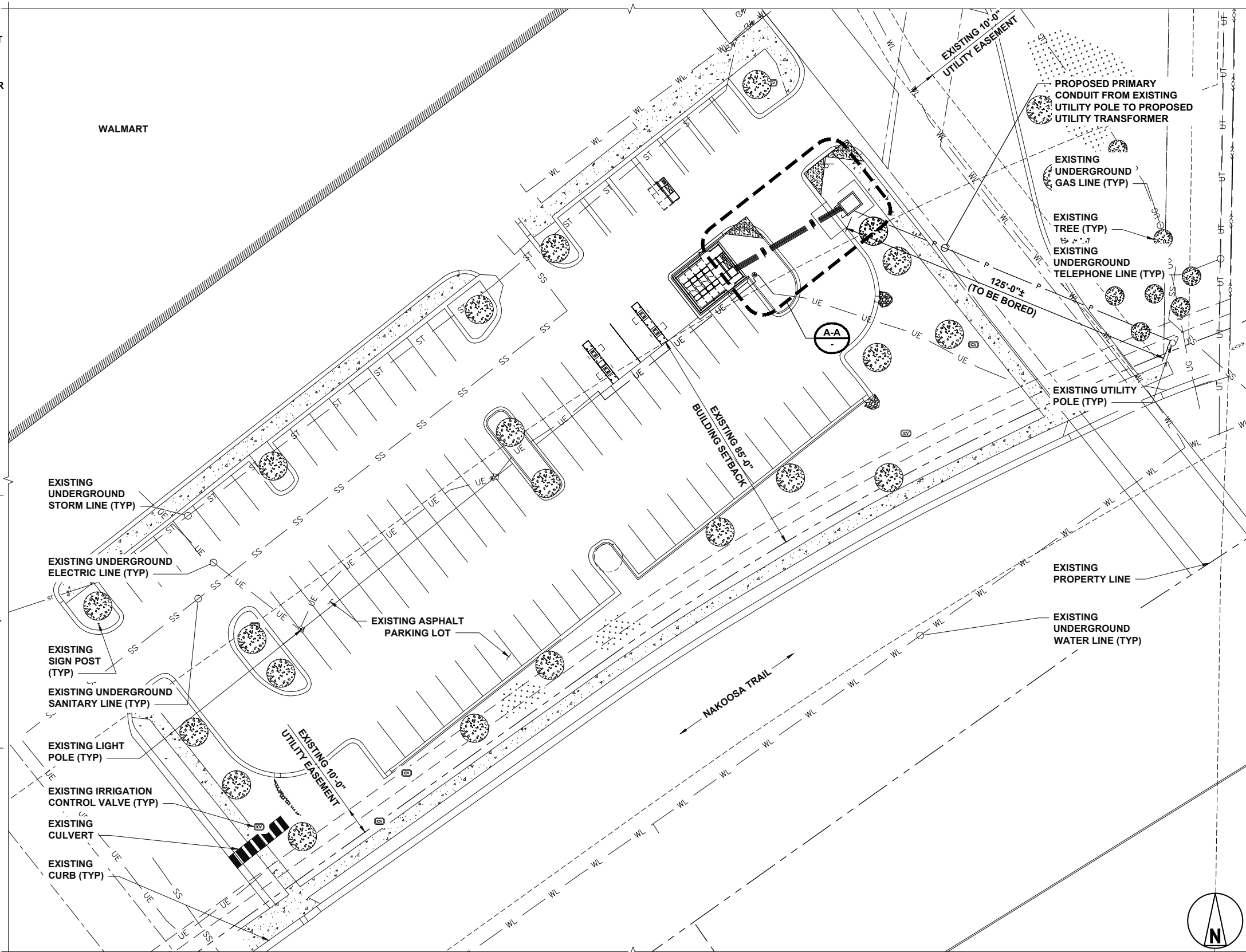
1. THE UTILITY DESIGN DETAILS SUMMARIZED ON THIS SHEET ARE FOR PROPERTY OWNER REVIEW. THE CONTRACTOR SHALL REFERENCE THE UTILITY DESIGN PACKAGE (UDP), PROVIDED WITH THE "ISSUED FOR CONSTRUCTION" DRAWINGS FOR BIDDING. THE CONTRACTOR SHALL INSTALL THE UTILITY RELATED SCOPE OF WORK PER UTILITY CONSTRUCTION SPECIFICATION REQUIREMENTS.
2. UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK AND TERMINATION OF SERVICE CONDUCTORS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRE-CONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATIONS.
3. TRANSFORMER BOLLARD PROTECTION TO BE INSTALLED PER UTILITY SPECIFICATION. ADDITIONAL BOLLARD PROTECTION MAY BE REQUIRED AT THE DISCRETION OF THE UTILITY FIELD INSPECTION PERSONNEL.

UTILITY SERVICE LATERAL LENGTHS		
UTILITY TRANSFORMER TO SERVICE EQUIPMENT	LINEAR LENGTH (FT)	*ESTIMATED LENGTH (FT)*
	44	66
TOTAL LENGTH OF WIRE PER CONDUIT =		264
NUMBER OF WIRE FILLED CONDUITS		3
TOTAL LENGTH OF WIRE =		792

(SEE SHEET E-3 FOR WIRE CONFIGURATION)
 *TOTAL LENGTH OF WIRE = 4 WIRES PER CONDUIT
 x ESTIMATED LENGTH
 x NUMBER OF FILLED CONDUITS

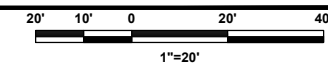


PLAN A-A
SCALE: NO SCALE



UTILITY PLAN

PENDING UTILITY DESIGN



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

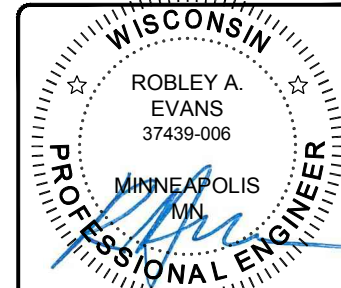


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6800 W 115th ST, SUITE 2922
OVERLAND PARK, KS 66211
(913) 458-2000

PROJECT NO:	197479
DRAWN BY:	PRP
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REV	DATE	DESCRIPTION
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WI100199 MADISON
WALMART 2335
4198 NAKOOSA TRAIL
MADISON, WI 53714

SHEET TITLE
UTILITY PLAN

SHEET NUMBER
E-1

NOTES

* AC CONDUCTOR: 28 FEET IS ADDED TO HORIZONTAL RUN LENGTH TO ACCOUNT FOR BURIED DEPTH
 *** DC CONDUCTORS: 22 FEET IS ADDED TO HORIZONTAL RUN LENGTH TO ACCOUNT FOR BURIED DEPTH

1. CONDUIT ROUTING IS DIAGRAMMATICALLY SHOWN ON PLANS AND ARE ONLY APPROXIMATIONS. THE EXACT LOCATION AND ROUTING PATHS SHALL BE FIELD VERIFIED AND INSTALLED PER JURISDICTIONAL REQUIREMENTS.
2. ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ONSITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC) STANDARDS BEING ENFORCED BY ALL APPLICABLE JURISDICTIONAL REQUIREMENTS AT TIME OF CONSTRUCTION.
3. UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER TO ENSURE ACCURACY OF INSTALLATIONS.
4. REFER TO CONDUIT AND WIRE SCHEDULE ON E-3 FOR CONDUIT AND WIRE REQUIREMENTS.

PROPOSED DISPENSER		
CHARGE POST NUMBER	175 KW	350 KW
1	1	
2		1
3	1	
4		1

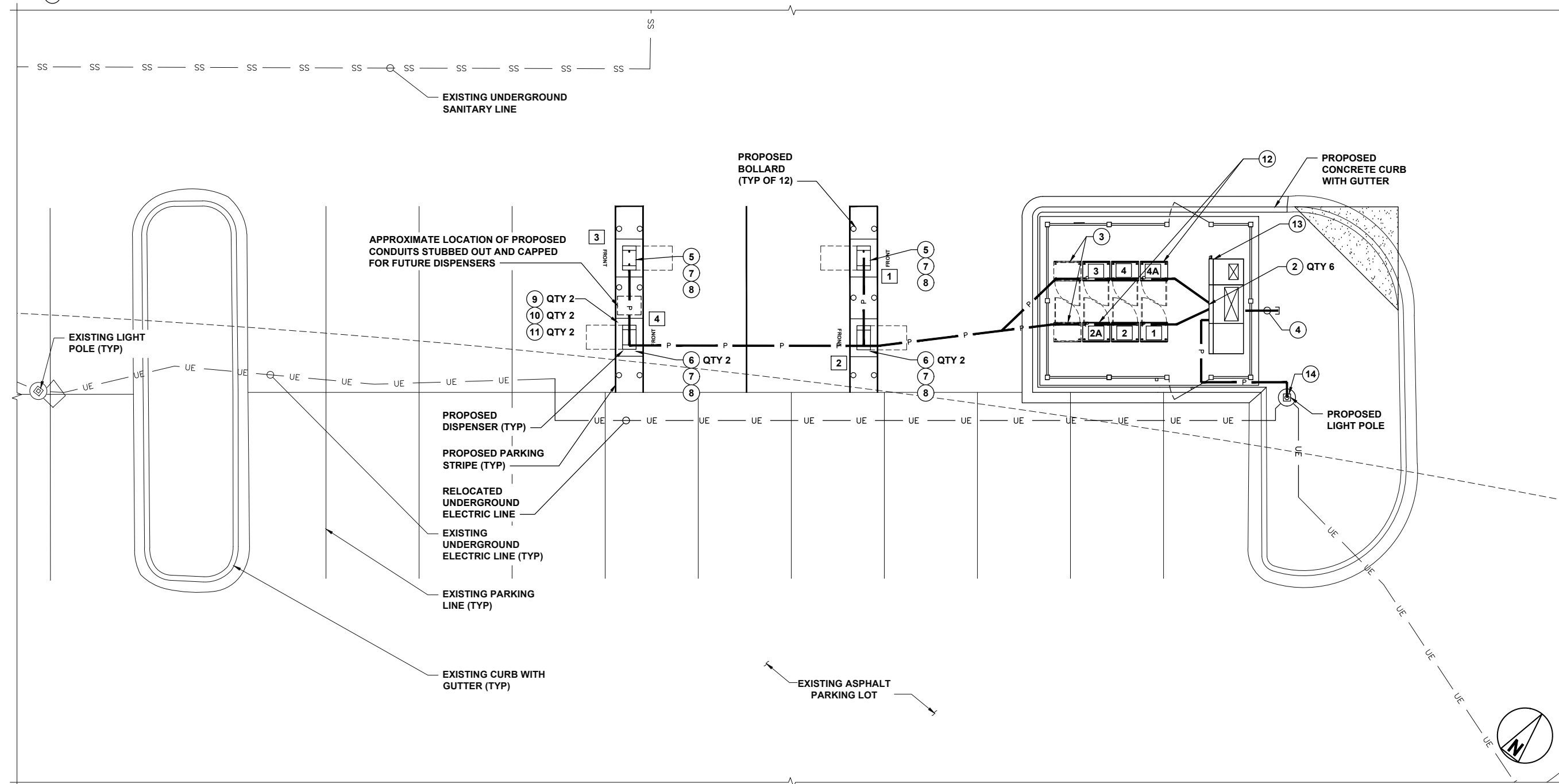
POWER UNIT LENGTHS		
POWER UNIT	LINEAR LENGTH SWITCHBOARD TO POWER UNIT	*ESTIMATED LENGTH
1	11	39
2	14	42
2A	16	44
3	16	44
4	13	41
4A	10	38

(SEE SHEET E-3 FOR WIRE CONFIGURATION)

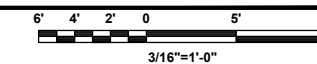
DC CHARGING POST LENGTHS			
POWER UNIT	DISPENSER	LINEAR LENGTH (FT)	***ESTIMATED LENGTH (FT)
1	1	34	56
2	2	30	52
2A	2	27	49
3	3	50	72
4	4	54	76
4A	4	57	79

(SEE SHEET E-3 FOR WIRE CONFIGURATION)

⊙ = SEE NOTE 4 FOR REFERENCE



ELECTRICAL PLAN



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



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6800 W 115th ST, SUITE 2292
 OVERLAND PARK, KS 66211
 (913) 458-2000

PROJECT NO: 197479
 DRAWN BY: PRP
 CHECKED BY: NMB

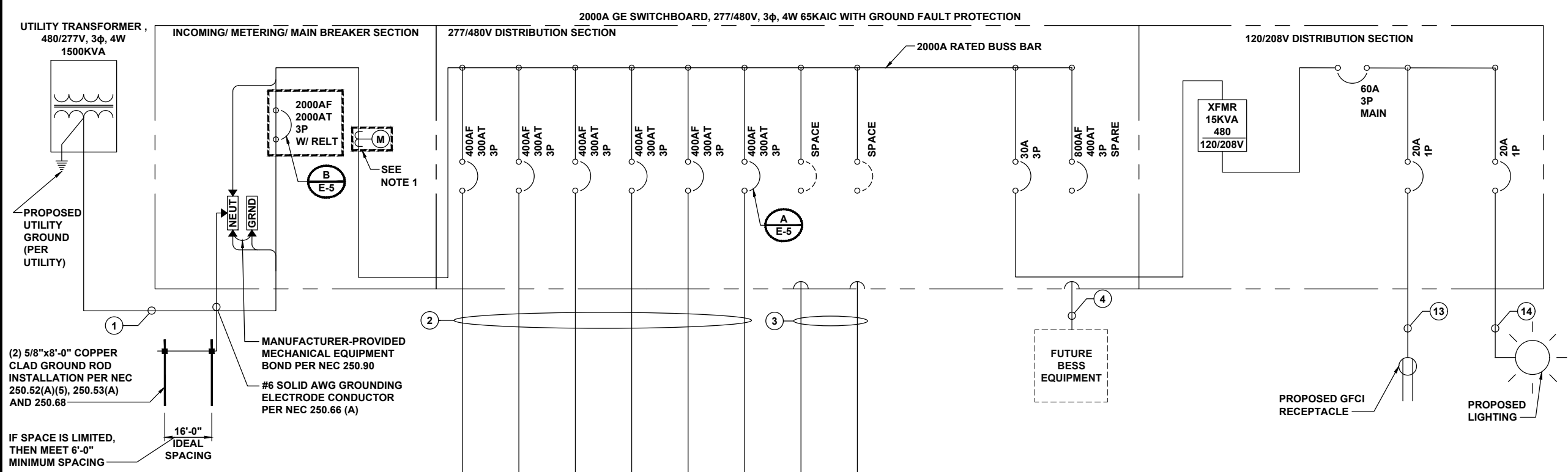
REV	DATE	DESCRIPTION
0	07/23/18	ISSUED FOR CONSTRUCTION

WISCONSIN PROFESSIONAL ENGINEER
 ROBLEY A. EVANS
 37439-006
 MINNEAPOLIS, MN
 07/24/2018
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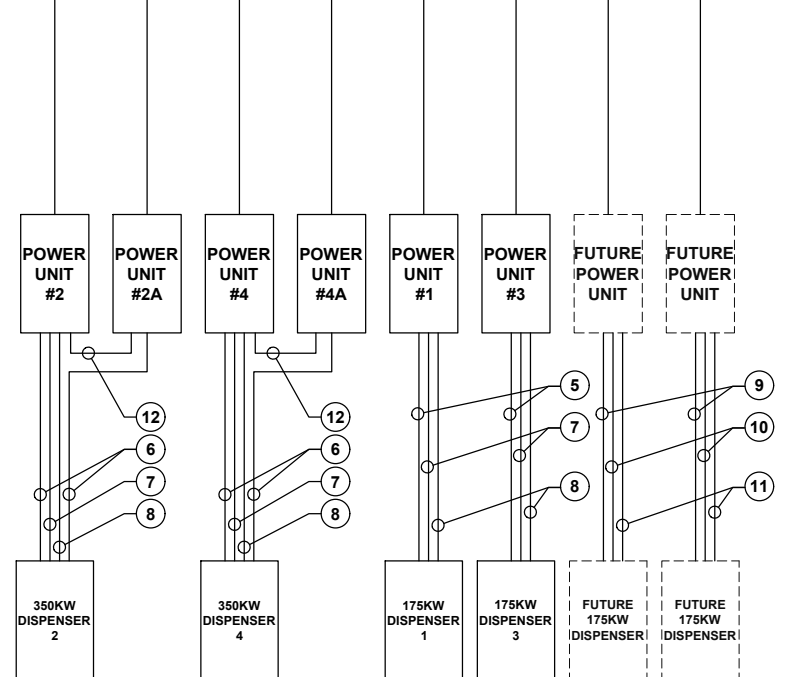
WI100199 MADISON
 WALMART 2335
 4198 NAKOOSA TRAIL
 MADISON, WI 53714

SHEET TITLE
ELECTRICAL PLAN

SHEET NUMBER
E-2



NOTE
 1. PROPOSED UTILITY CTS/PTS SHALL BE LOCATED WITHIN COMPARTMENTS APPROVED BY THE UTILITY AS SHOWN IN THIS DRAWING PACKAGE.



SIGNET CONDUIT AND WIRING SCHEDULE			
	FROM	TO	CONFIGURATION
①	UTILITY TRANSFORMER	PROPOSED SWITCHBOARD	TBD
②	PROPOSED SWITCHBOARD	PROPOSED POWER UNIT (EV CHARGER)	(3) 400 MCM AL (THWN-2) + (1) 400 MCM AL (THWN-2) NEUT + (1) #2 AWG CU (THWN-2) EGC IN (1) 3" CONDUIT
③	PROPOSED SWITCHBOARD	FUTURE POWER UNIT (EV CHARGER)	(1) 3" CONDUIT
④	PROPOSED SWITCHBOARD	FUTURE BESS EQUIPMENT	(3) 3" CONDUITS + (3) 1 1/4" CONDUITS
⑤	PROPOSED POWER UNIT (EV CHARGER)	PROPOSED DC DISPENSER (POST) DC POWER	(4) 300 MCM CU (XHHW-2) 1KV + (1) #2 AWG CU (THWN-2) EGC IN (1) 3" CONDUIT
⑥	PROPOSED POWER UNIT (EV CHARGER)	PROPOSED DC DISPENSER (POST) DC POWER	(4) 3/0 CU (XHHW-2) 1KV + (1) #2 AWG CU (THWN-2) EGC IN (1) 2 1/2" CONDUIT
⑦	PROPOSED POWER UNIT (EV CHARGER)	PROPOSED DC DISPENSER (POST) AUXILIARY POWER	(1) #12 AWG CU (THWN-2) + (1) #12 AWG CU (THWN-2) NEUT + (1) #12 AWG CU (THWN-2) EGC IN (1) 3/4" CONDUIT
⑧	PROPOSED POWER UNIT (EV CHARGER)	PROPOSED DC DISPENSER (POST) COMMUNICATION	(1) MULTIMODE FIBER (ST/ST CONN) + (1) 2 CONDUCTOR #16 AWG (TW/SH PAIR) IN (1) 1 1/2" CONDUIT
⑨	FUTURE POWER UNIT (EV CHARGER)	FUTURE DC DISPENSER (POST) DC POWER	(1) 3" CONDUIT
⑩	FUTURE POWER UNIT (EV CHARGER)	FUTURE DC DISPENSER (POST) AUXILIARY POWER	(1) 3/4" CONDUIT
⑪	FUTURE POWER UNIT (EV CHARGER)	FUTURE DC DISPENSER (POST) COMMUNICATION	(1) 1 1/2" CONDUIT
⑫	PROPOSED POWER UNIT (EV CHARGER)	PROPOSED POWER UNIT (EV CHARGER)	(1) MULTIMODE FIBER (ST/ST CONN) + (1) 2 CONDUCTOR #16 AWG (TW/SH PAIR) + (1) 20 CONDUCTOR #22 AWG IN (1) 1 1/2" CONDUIT
⑬	PROPOSED SWITCHBOARD 120/208V SECTION	PROPOSED GFCI RECEPTACLE	(1) #12 AWG CU (THWN-2) + (1) #12 AWG CU (THWN-2) NEUT + (1) #12 AWG CU (THWN-2) EGC IN (1) 3/4" CONDUIT
⑭	PROPOSED SWITCHBOARD 120/208V SECTION	PROPOSED LIGHTING EQUIPMENT	(2) #12 AWG CU (THWN-2) + (1) #12 AWG CU (THWN-2) EGC IN (1) 1 1/4" CONDUIT

SIGNET POWER UNITS		
AVAILABLE FAULT CURRENT BY LOCATION	AVAILABLE FAULT CURRENT PROVIDED BY UTILITY	REACTOR RESULT
AFC @ TRANSFORMER	32,000	65KA OR LOWER NO REACTORS REQUIRED

LOAD SUMMARY			
	FLA	QTY	TOTAL FLA
175KW POWER UNIT	210 FLA	6	1260



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



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6800 W 115th ST, SUITE 2292
 OVERLAND PARK, KS 66211
 (913) 458-2000

PROJECT NO:	197479
DRAWN BY:	PRP
CHECKED BY:	NMB

REV	DATE	DESCRIPTION
0	07/23/18	ISSUED FOR CONSTRUCTION

WISCONSIN
 ROBLEY A. EVANS
 37439-006
 MINNEAPOLIS, MN
 PROFESSIONAL ENGINEER
 07/24/2018

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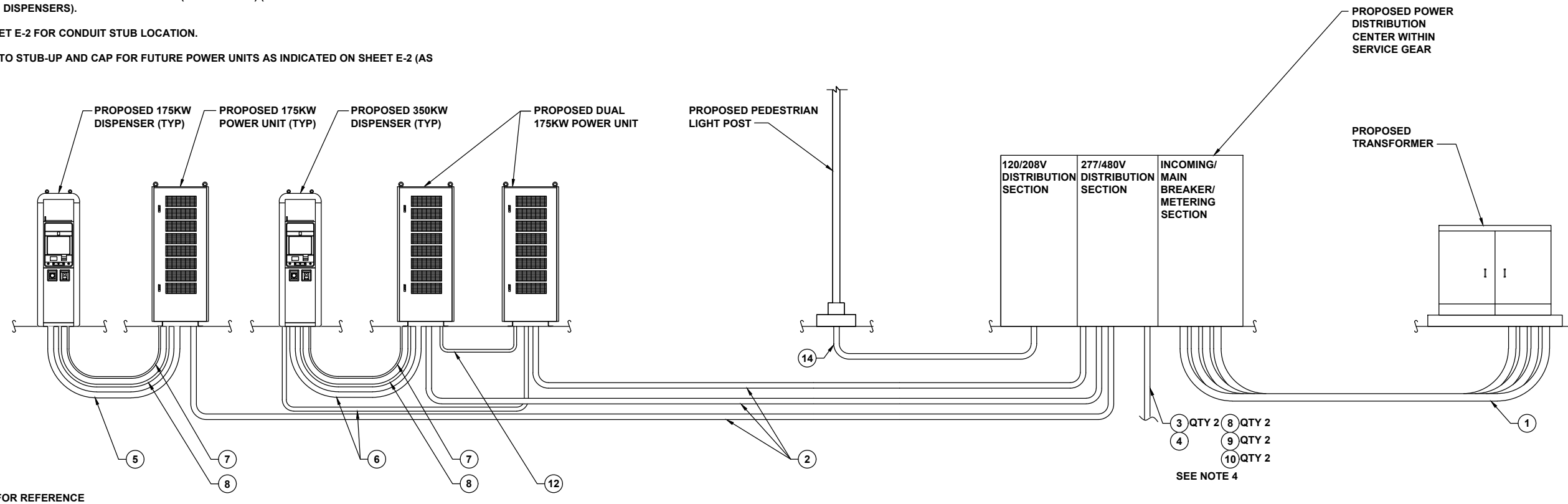
WI100199 MADISON
 WALMART 2335
 4198 NAKOOSA TRAIL
 MADISON, WI 53714

SHEET TITLE
SINGLE LINE DIAGRAM

SHEET NUMBER
E-3

NOTES

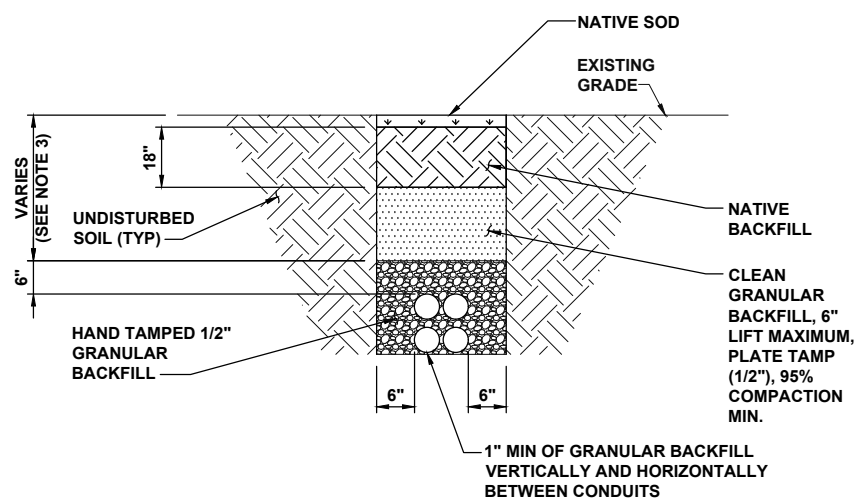
1. CONDUITS SHALL BE BURIED BELOW FROST LINE AND IN COMPLIANCE WITH LOCAL AND NATIONAL CODE REQUIREMENTS.
2. REFER TO CONDUIT AND WIRE SCHEDULE ON E-3 FOR CONDUIT AND WIRE REQUIREMENTS.
3. INSTALL DOTTIE DUCT SEAL COMPOUND PC 6130 (CAT NO.LHD1) (TYP FOR ALL CONDUITS FOR CHARGER CABINETS AND DISPENSERS).
4. REFER TO SHEET E-2 FOR CONDUIT STUB LOCATION.
5. CONTRACTOR TO STUB-UP AND CAP FOR FUTURE POWER UNITS AS INDICATED ON SHEET E-2 (AS APPLICABLE).



CAR CHARGER CONDUIT ELEVATION

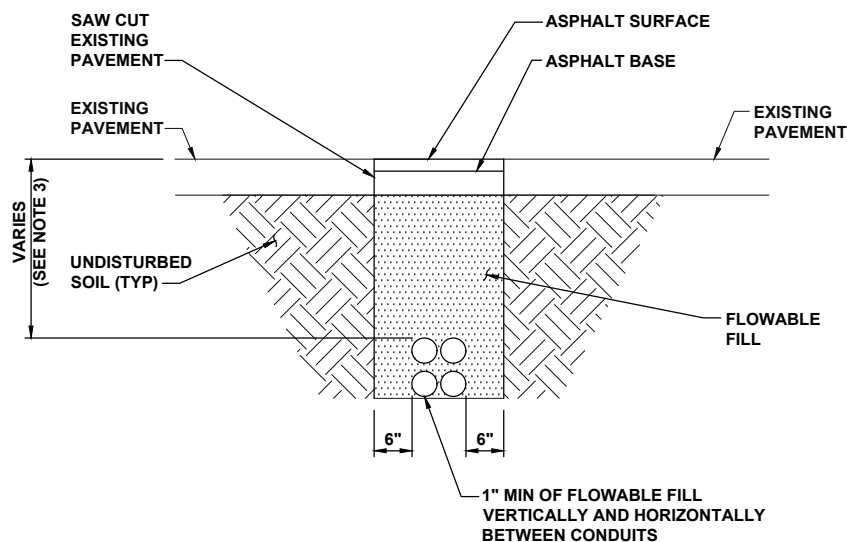
NO SCALE

A



NOTES

1. ANY EXCAVATION LEFT OPEN NEEDS TO BE FENCED, BARRICADED, OR TRENCH PLATED TO INSURE THE SAFETY OF THE GENERAL PUBLIC.
2. ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE CONSTRUCTION CONDITIONS OR BETTER.
3. TRENCH DEPTHS ARE REQUIRED TO BE 2'-0" MIN. OR 6" BELOW FROST LINE PER LOCAL JURISDICTION REQUIREMENTS.
4. EXACT NUMBER OF CONDUITS SHALL BE DETERMINED BY SHEET E-1 & E-2, EXACT CONDUIT PLACEMENT IN TRENCH SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD BASED ON PHYSICAL MEASUREMENTS AND JURISDICTIONAL REQUIREMENTS.



NOTES

1. ASPHALT SHALL COMPLY WITH STANDARD DOT OR LOCAL JURISDICTION SPEC. FOR HMA SURFACE COURSE.
2. ANY EXCAVATION LEFT OPEN NEEDS TO BE FENCED, BARRICADED, OR TRENCH PLATED TO INSURE THE SAFETY OF THE GENERAL PUBLIC.
3. TRENCH DEPTHS ARE REQUIRED TO BE 2'-0" MIN. OR 6" BELOW FROST LINE PER LOCAL JURISDICTION REQUIREMENTS.
4. ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE CONSTRUCTION CONDITIONS OR BETTER.
5. EXACT NUMBER OF CONDUITS SHALL BE DETERMINED BY SHEET E-1 & E-2, EXACT CONDUIT PLACEMENT IN TRENCH SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD BASED ON PHYSICAL MEASUREMENTS AND JURISDICTIONAL REQUIREMENTS.

TYPICAL NON-UTILITY CONDUIT UNDER SOIL TRENCH DETAIL

NO SCALE

B

TYPICAL NON-UTILITY CONDUIT UNDER ASPHALT TRENCH DETAIL

NO SCALE

C

DETAIL NOT USED

NO SCALE

D



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

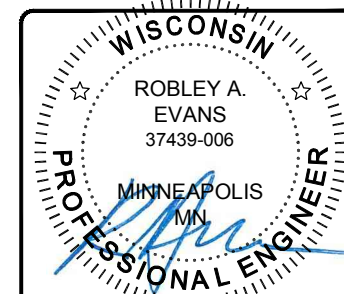


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6800 W 115th ST, SUITE 2292
OVERLAND PARK, KS 66211
(913) 458-2000

PROJECT NO:	197479
DRAWN BY:	PRP
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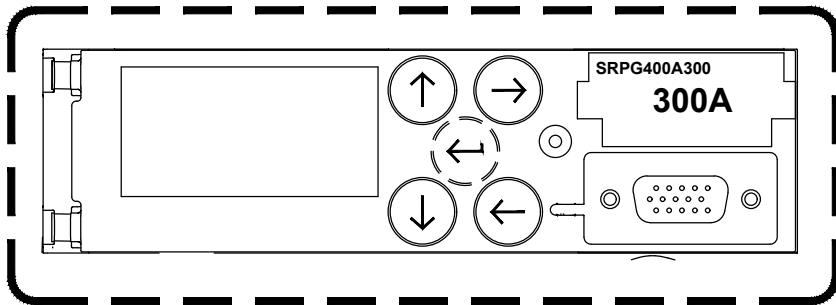
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4198 NAKOOSA TRAIL
MADISON, WI 53714

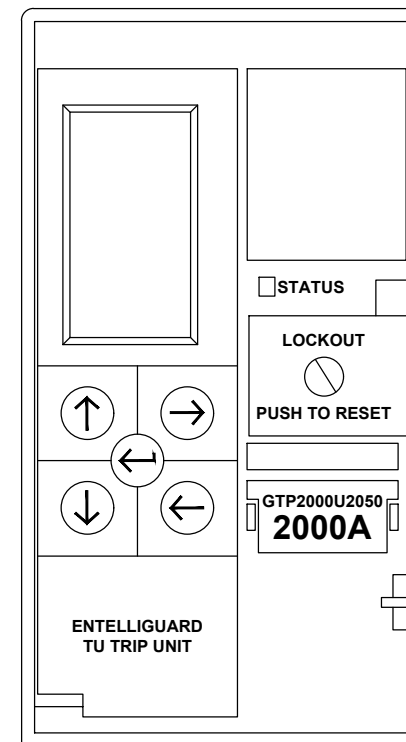
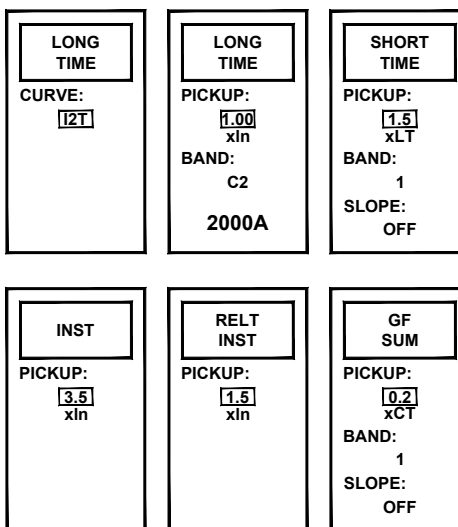
SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E-4



LONG TIME:
CURVE: I2T
PICKUP: 1.00 x In
BAND: C2
SHORT TIME:
PICKUP: 1.5 x LT
BAND: 1
SLOPE: OFF
INST:
PICKUP: 2.5 x In

LONG TIME:
CURVE: I2T
PICKUP: 1.00 x In
BAND: C2
SHORT TIME:
PICKUP: 1.5 x LT
BAND: 1
SLOPE: OFF
INST:
PICKUP: 3.5 x In
RELT INST:
PUCKUP: 1.5 x In
GF SUM:
PICKUP: 0.2 x CT
BAND: 1
SLOPE: OFF



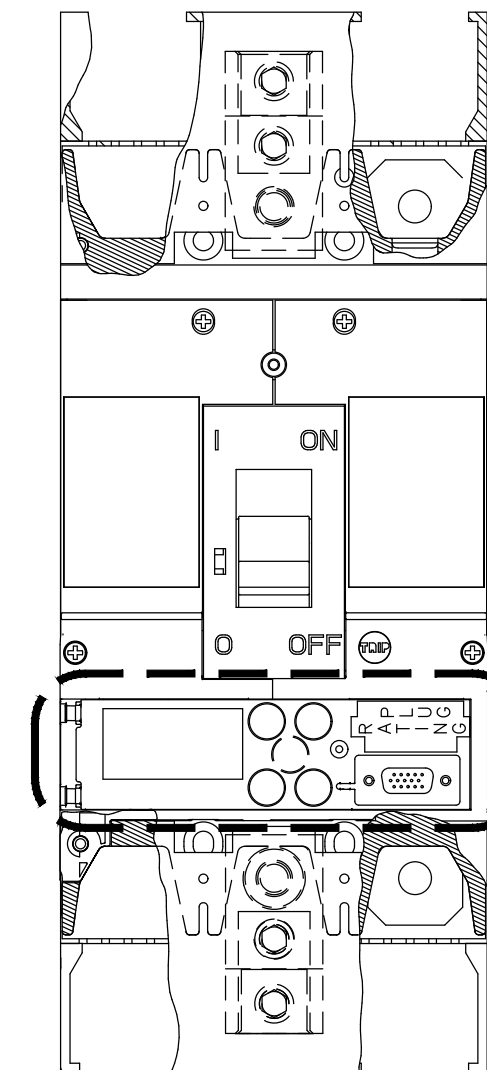
NOTES

- FOR SET UP ASSISTANCE SEE SECTION 6 OF THE GE ENTELLIGUARD® USER MANUAL: DEH-4567.
- RELT FUNCTIONS AS THE ENERGY REDUCING MAINTENANCE SWITCH.

ENTELLEGUARD TU TRIP UNIT DETAIL

NO SCALE

B



NOTES

- FOR SETUP ASSISTANCE SEE SECTION 2 OF THE GE SPECTRA® RMS MOLDED CASE CIRCUIT BREAKER WITH MICROENTELLEGUARD TRIP UNIT USER MANUAL: GEH-702.
- ALL BREAKERS SUPPLIED WITH PADLOCKING PROVISIONS.

MICROENTELLEGUARD TRIP UNIT DETAIL

NO SCALE

A

DETAIL NOT USED

NO SCALE

C

DETAIL NOT USED

NO SCALE

D



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

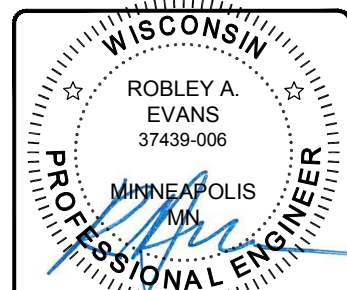


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6800 W 115th ST, SUITE 2292
OVERLAND PARK, KS 66211
(913) 458-2000

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WI100199 MADISON
WALMART 2335
4198 NAKOOSA TRAIL
MADISON, WI 53714

SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER

E-5



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

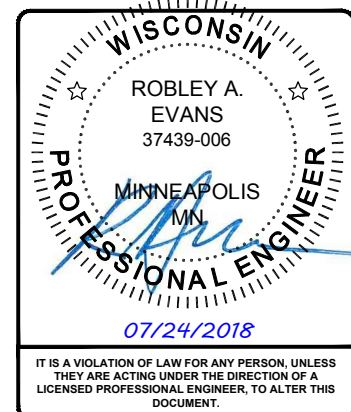


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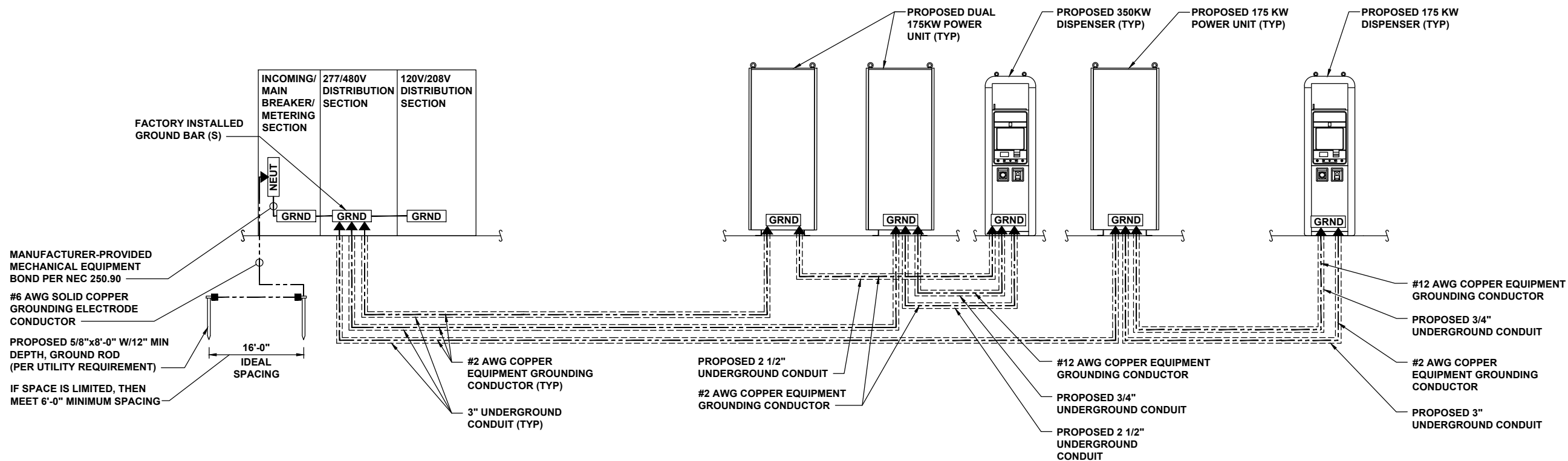


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WI100199 MADISON
WALMART 2335
4198 NAKOOSA TRAIL
MADISON, WI 53714

SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-1



GROUNDING SCHEMATIC

NO SCALE

A

CADWELD CONNECTIONS OR ENGINEER APPROVED EQUAL		
 CABLE TO REBAR TEE CONNECTION HORIZONTAL CABLE TAP TO VERTICAL REBAR TYPE RJ	 HORIZONTAL SPLICE SPLICE OF HORIZONTAL CABLES TYPE SS	 PARALLEL HORIZONTAL CONDUCTORS PARALLEL THROUGH CONNECTION OF HORIZONTAL CABLES TYPE PT
BURNDY CONNECTIONS OR ENGINEER APPROVED EQUAL		
 BOND JUMPER FIELD FABRICATED GREEN STRANDED INSULATED TYPE 2-YA-2	 HORIZONTAL STEEL SURFACE TO FLAT STEEL SURFACE OR HORIZONTAL PIPE TYPE HS	 PARALLEL HORIZONTAL CONDUCTORS PARALLEL DEAD END TAP OR HORIZONTAL THRU CONDUCTOR TYPE PC
 VERTICAL PIPE CABLE DOWN AT 45° TO RANGE OF VERTICAL PIPES TYPE VS	 VERTICAL STEEL SURFACE CABLE DOWN AT 45° TO VERTICAL STEEL SURFACE INCLUDING PIPE TYPE VS	
 COPPER LUGS TWO HOLE - LONG BARREL LENGTH TYPE YA-2	 HORIZONTAL TEE TEE OF HORIZONTAL RUN AND TAP CABLES TYPE TA	 THROUGH CABLE TO GROUND ROD THROUGH CABLE TO TOP OF GROUND ROD TYPE GT

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.
- 2014 NEC 250.121 EXCEPTION: A WIRE-TYPE EQUIPMENT GROUNDING CONDUCTOR INSTALLED IN COMPLIANCE WITH 250.6(A) AND THE APPLICABLE REQUIREMENTS FOR BOTH THE EQUIPMENT GROUNDING CONDUCTOR AND THE GROUNDING ELECTRODE CONDUCTOR IN PARTS II, III, AND VI OF THIS ARTICLE SHALL BE PERMITTED TO SERVE AS BOTH AN EQUIPMENT GROUNDING CONDUCTOR AND A GROUNDING ELECTRODE CONDUCTOR.

DETAIL NOT USED

NO SCALE

B

CADWELD CONNECTION DETAIL

NO SCALE

C

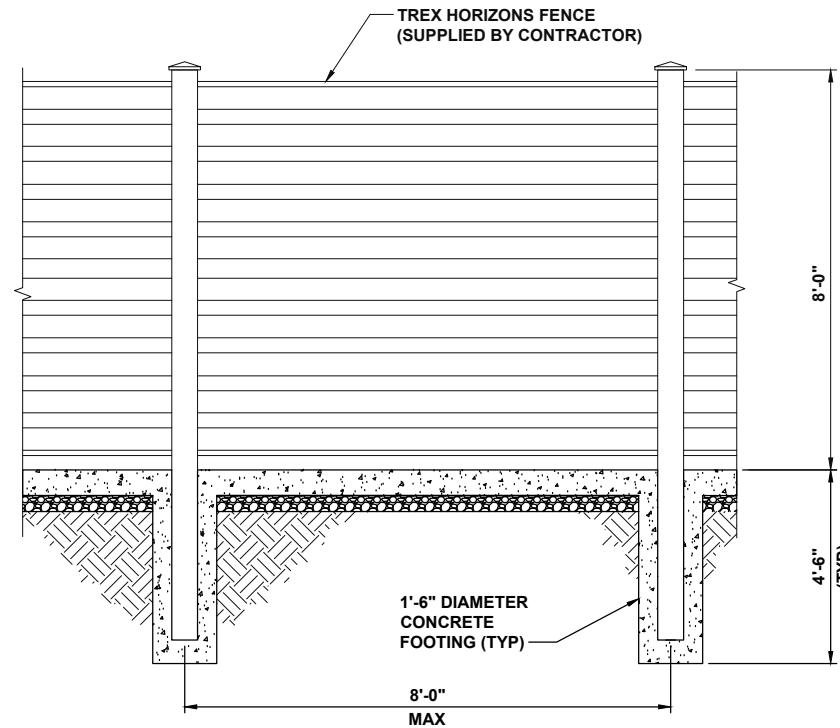
GROUNDING NOTES

NO SCALE

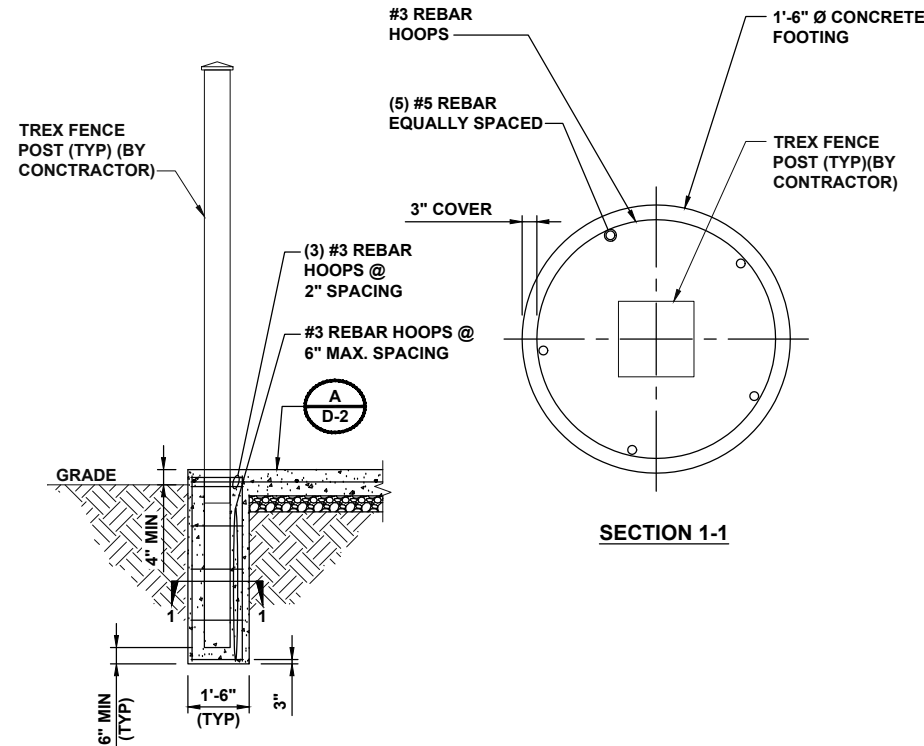
D

NOTES

1. COLOR: WINCHESTER GREY
2. PICK TREX HORIZONS FENCE THAT MEETS THESE REQUIREMENTS.
WIND SPEED = 105 MPH, SEISMIC: SDS = 0.090G, SEISMIC DESIGN CATEGORY B.



TREX FENCE ELEVATION



TYPICAL TREX FENCE ELEVATION

TYPICAL TREX FENCE DETAIL

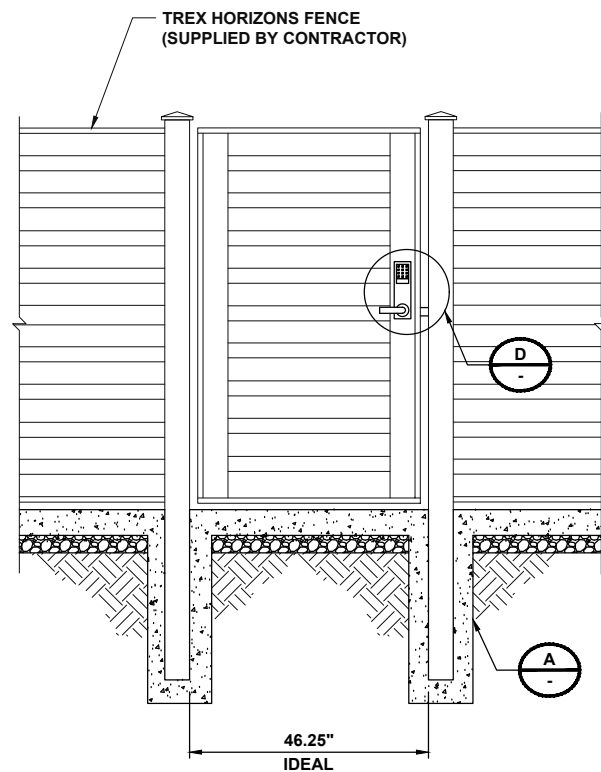
NO SCALE

A

DETAIL NOT USED

NO SCALE

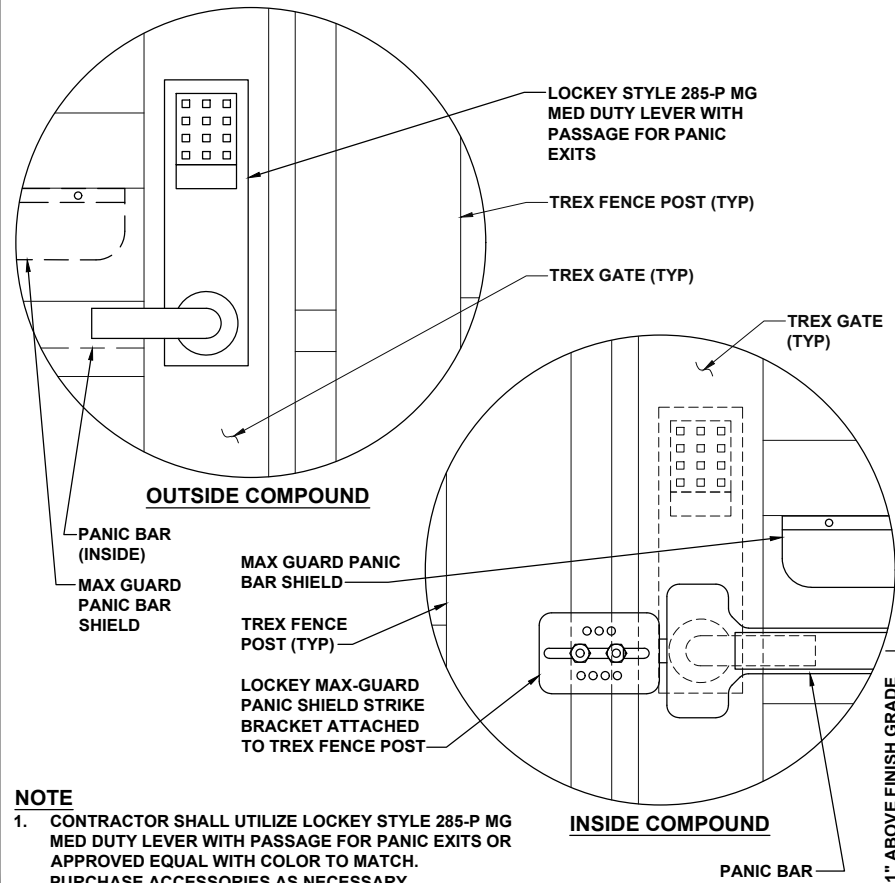
B



SINGLE GATE DETAIL

NO SCALE

C



NOTE

1. CONTRACTOR SHALL UTILIZE LOCKEY STYLE 285-P MG MED DUTY LEVER WITH PASSAGE FOR PANIC EXITS OR APPROVED EQUAL WITH COLOR TO MATCH. PURCHASE ACCESSORIES AS NECESSARY.

SINGLE GATE LOCK DETAIL W/ KEYPAD

NO SCALE

D

DETAIL NOT USED

NO SCALE

E



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

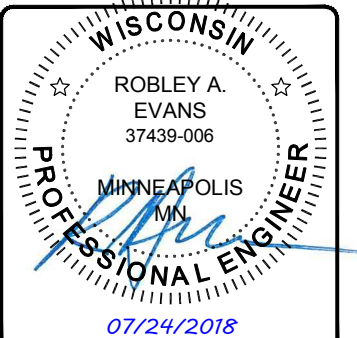


BLACK & VEATCH

6800 W 115th ST, SUITE 2292
OVERLAND PARK, KS 66211
(913) 458-2000

PROJECT NO:	197479
DRAWN BY:	PRP
CHECKED BY:	NMB

REV	DATE	DESCRIPTION
0	07/23/18	ISSUED FOR CONSTRUCTION

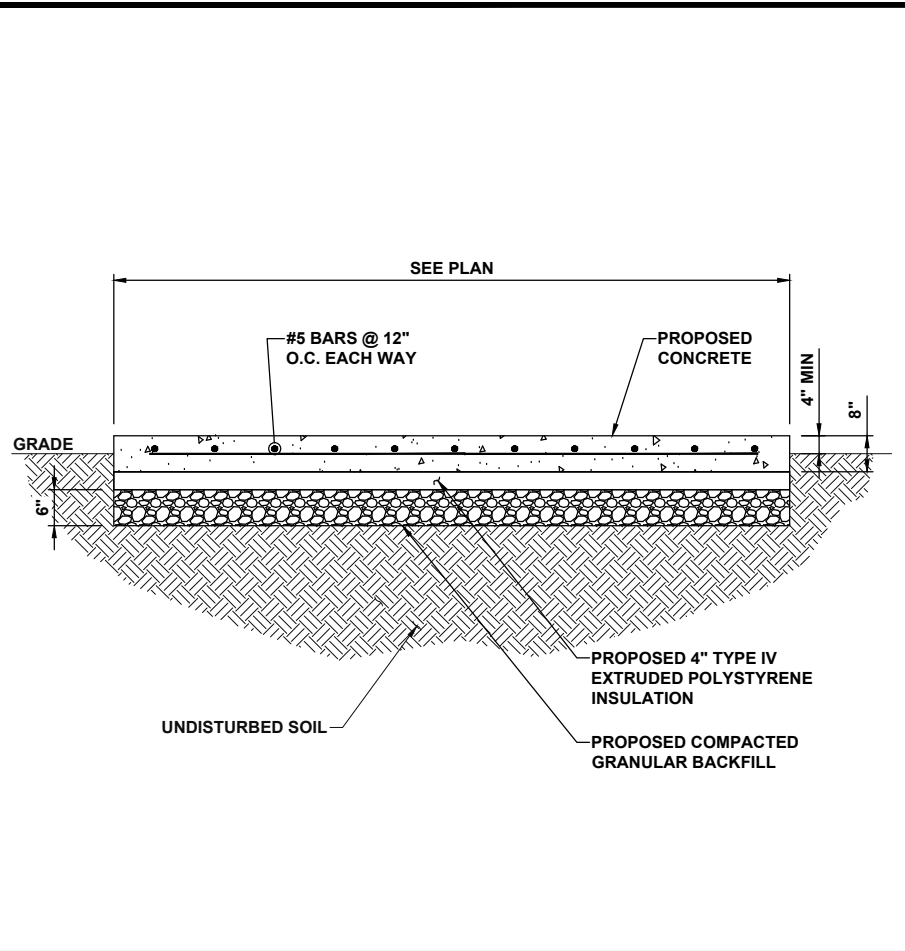


IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

WI100199 MADISON
WALMART 2335
4198 NAKOOSA TRAIL
MADISON, WI 53714

SHEET TITLE
FENCE DETAILS

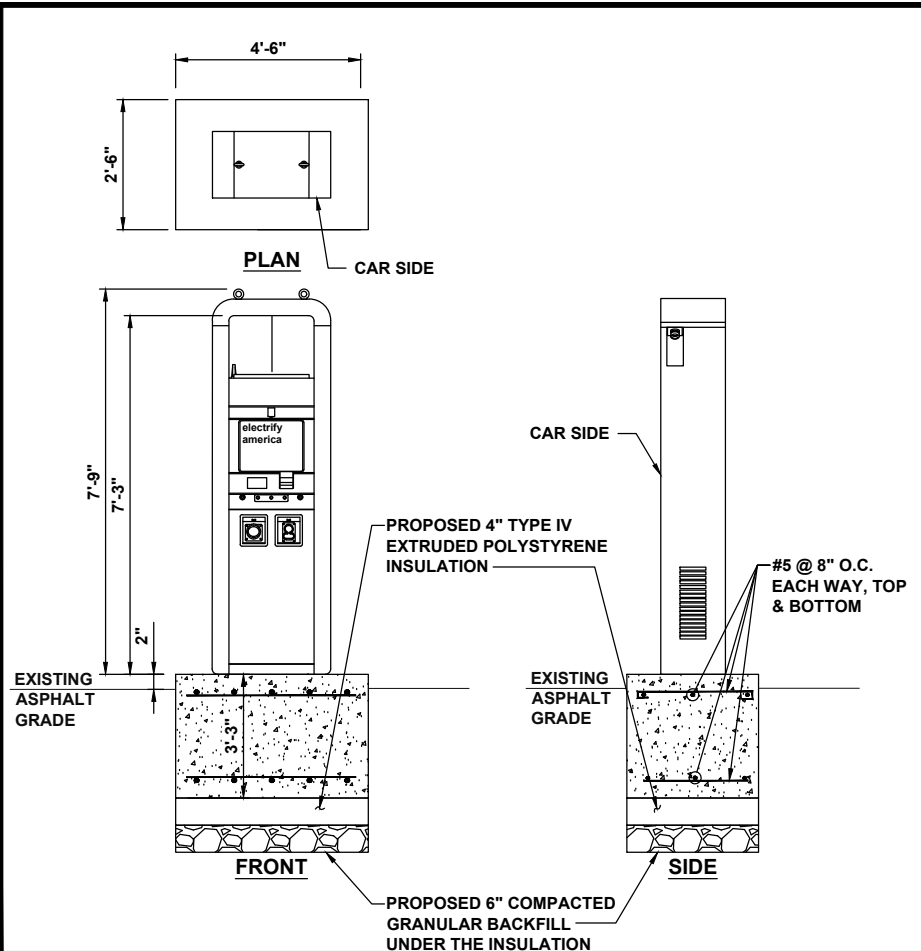
SHEET NUMBER
D-1



CONCRETE PAD DETAIL

NO SCALE

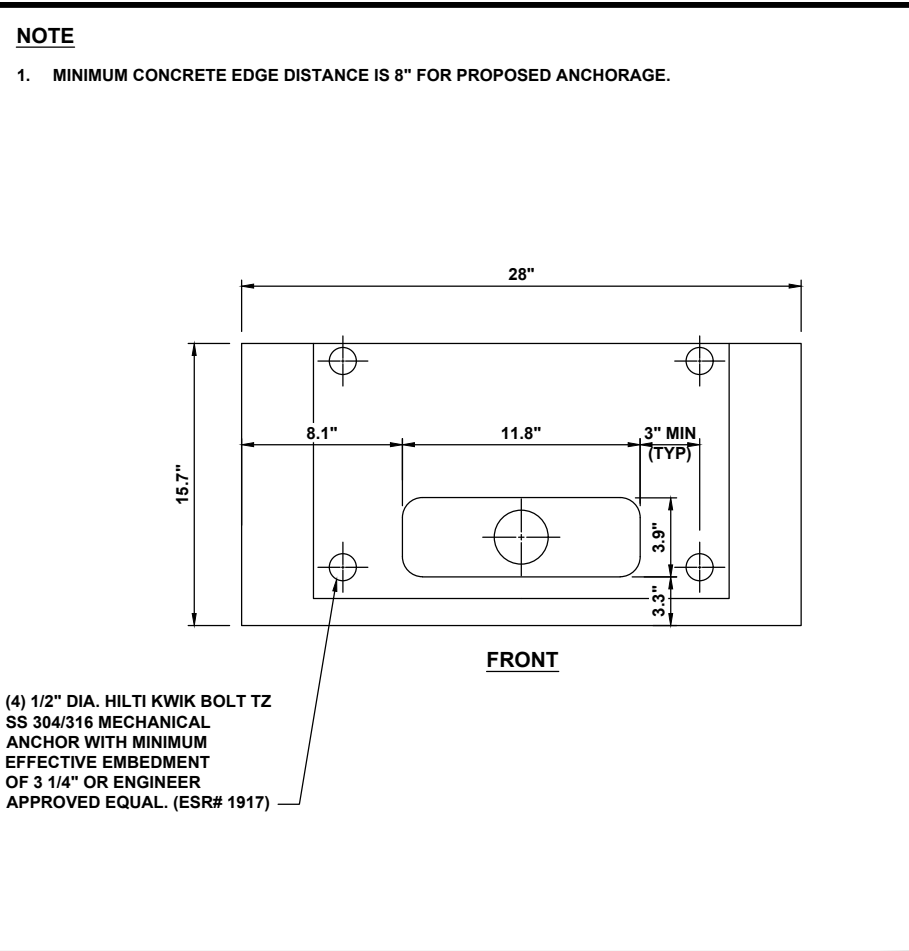
A



DISPENSER FOOTING DETAIL

NO SCALE

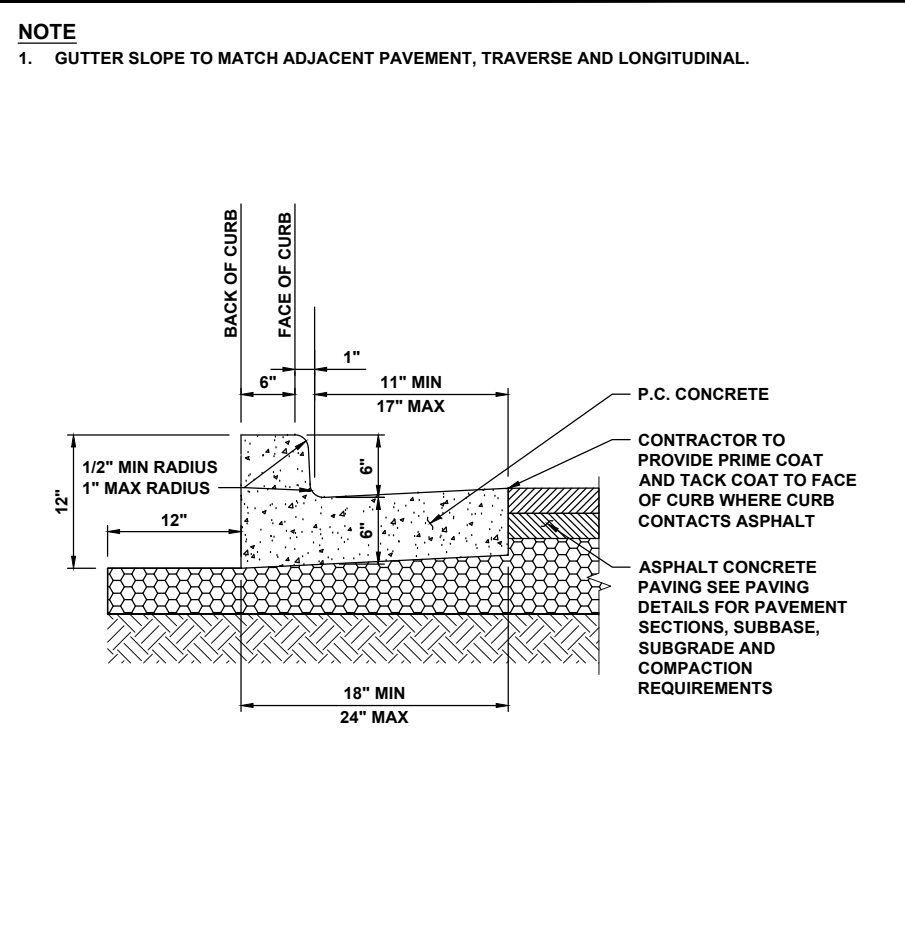
B



DISPENSER ANCHORAGE AND CONDUIT ENTRY DETAIL

NO SCALE

C



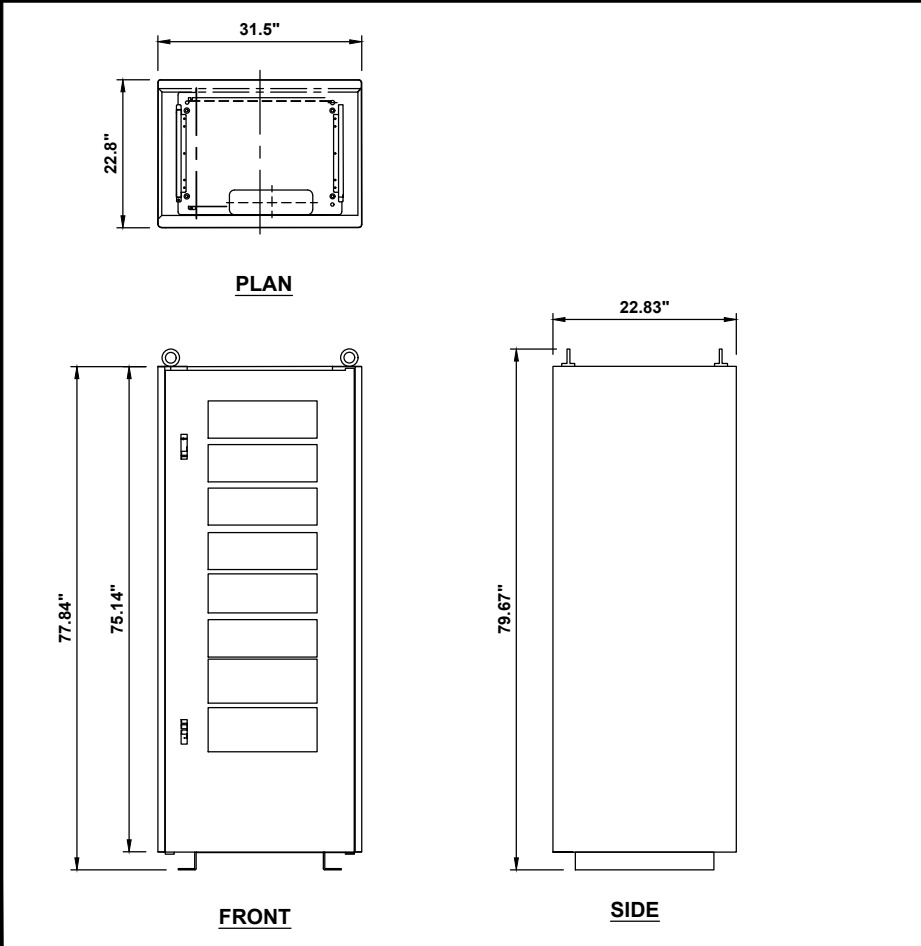
NOTE

- 1. GUTTER SLOPE TO MATCH ADJACENT PAVEMENT, TRAVERSE AND LONGITUDINAL.

CONCRETE CURB AND GUTTER DETAIL

NO SCALE

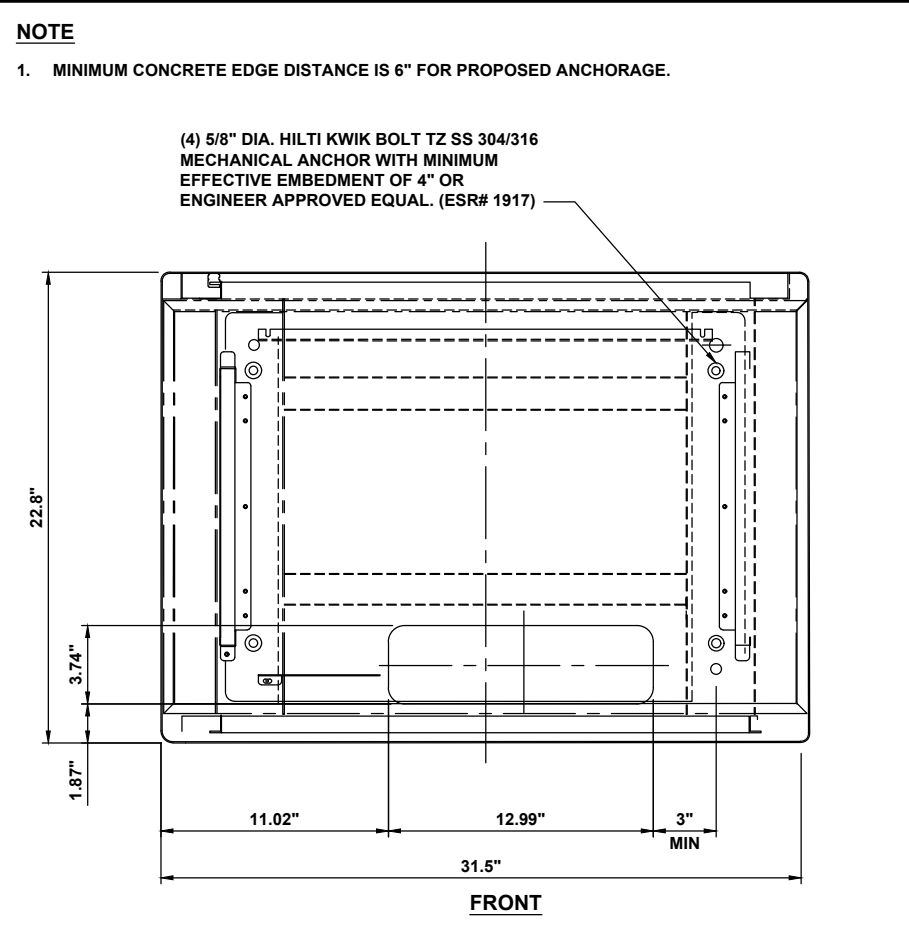
D



POWER UNIT DETAIL

NO SCALE

E



POWER UNIT ANCHORAGE AND CONDUIT ENTRY DETAIL

NO SCALE

F

NOTE

- 1. MINIMUM CONCRETE EDGE DISTANCE IS 8 inch FOR PROPOSED ANCHORAGE.

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

NOTE

- 1. MINIMUM CONCRETE EDGE DISTANCE IS 6 inch FOR PROPOSED ANCHORAGE.

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



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

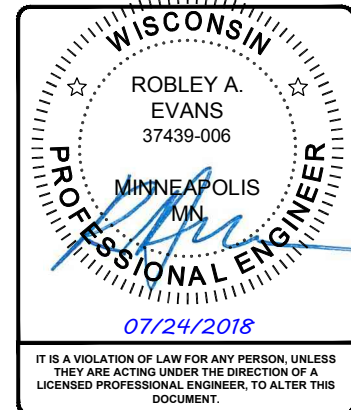


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(913) 458-2000

PROJECT NO:	197479
DRAWN BY:	PRP
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REV	DATE	DESCRIPTION
0	07/23/18	ISSUED FOR CONSTRUCTION



WI100199 MADISON
WALMART 2335
4198 NAKOOSA TRAIL
MADISON, WI 53714

SHEET TITLE
EQUIPMENT DETAILS

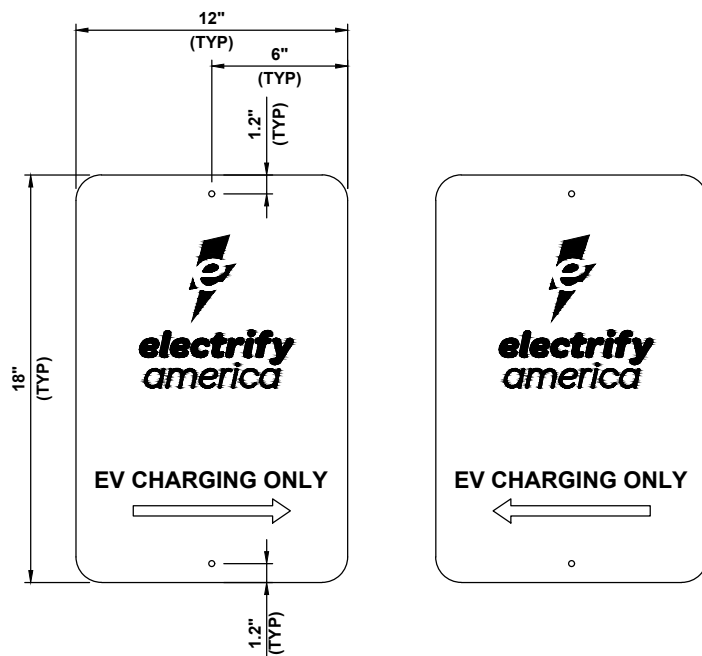
SHEET NUMBER
D-2

NOTES

1. CONTRACTOR TO SELECT APPROPRIATE SIGN PER PROPOSED SIGN LOCATION.
2. BOTTOM OF LOWEST SIGN TO BE INSTALLED 54" ABOVE GRADE.

SIGN PROCUREMENT

COMPANY: SETON
 CONTACT: MOLLY YARGER
 PHONE: 844-580-3349
 EMAIL: MOLLY_YARGER@SETON.COM
 *REFERENCE QUOTE #25289757 (14 DAY LEAD TIME)



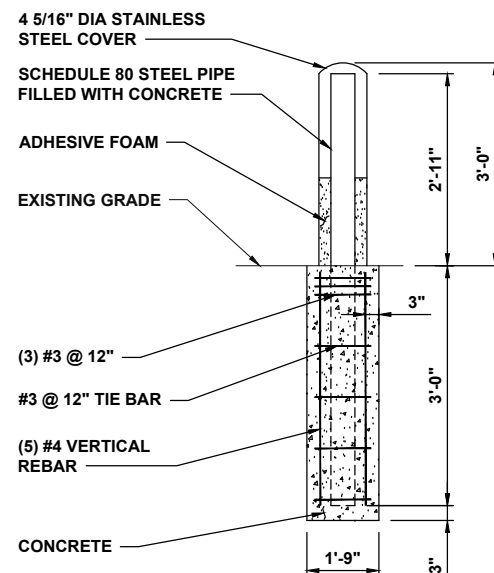
NON-ILLUMINATED PARKING SIGNAGE

NO SCALE

A

NOTES

1. MAX INTERIOR POST SIZE:
 HEIGHT: 35 INCHES
 OUTSIDE DIAMETER: 3 1/2 INCHES
2. BOLLARD IS FOR WARNING PURPOSES ONLY.



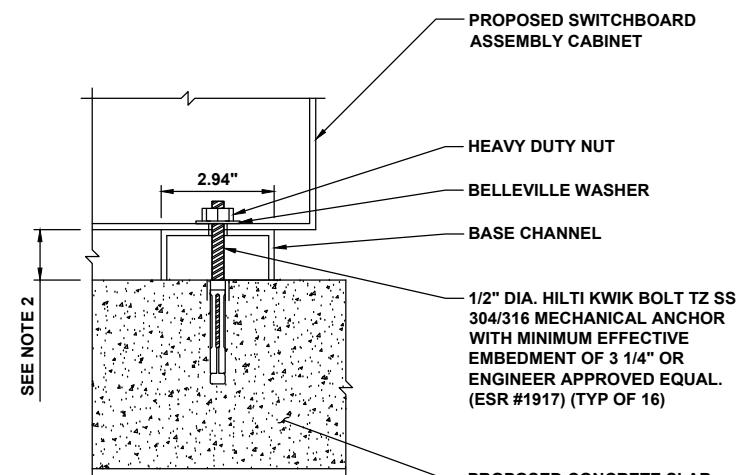
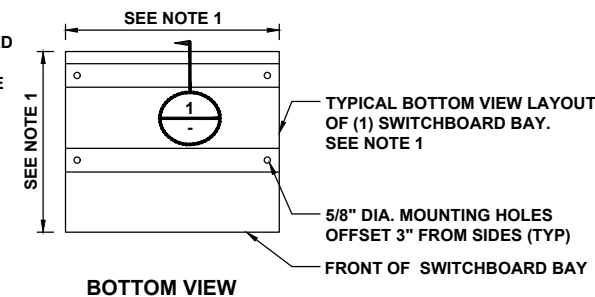
WARNING BOLLARD DETAIL

NO SCALE

B

NOTES

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.



SECTION 1

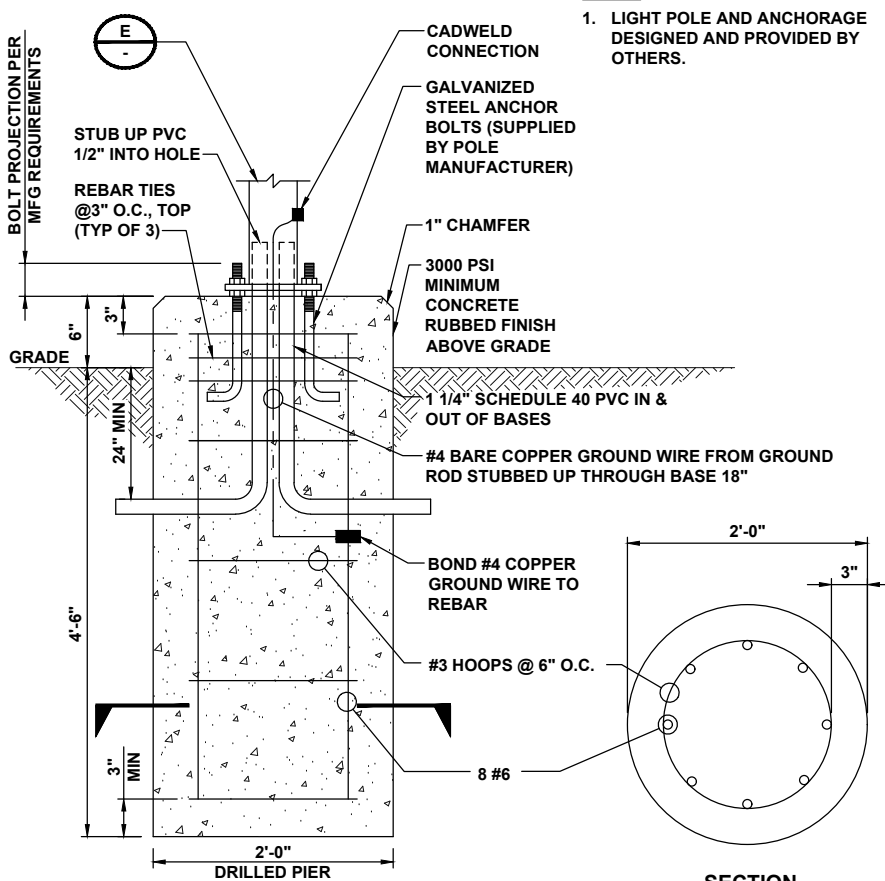
SWITCHBOARD ANCHORAGE DETAIL

NO SCALE

C

NOTE

1. LIGHT POLE AND ANCHORAGE DESIGNED AND PROVIDED BY OTHERS.



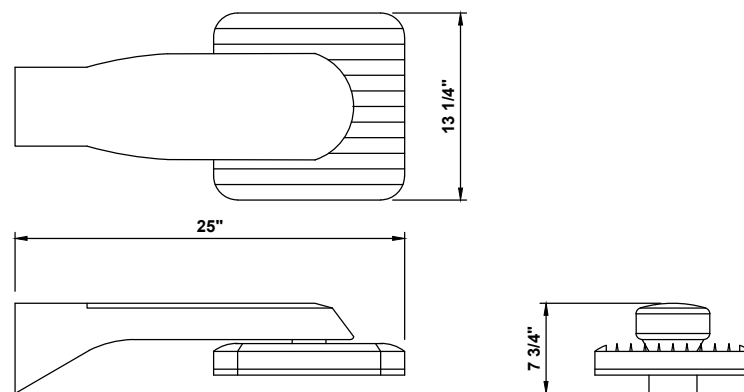
SECTION

PEDESTRIAN LIGHT POLE BASE DETAIL

NO SCALE

D

LITHONIA LIGHTING/ KAX LED SIZE 1 LED AREA LUMINAIRE
 LITHONIA KAX1 LED P1 30K R3 MVOLT RPA DBLXD
 PHOTOCELL: DLL127F 1.5 JU
 LITHONIA LIGHTING ANCHOR BASE POLE
 RSS 15 4-5B DM19AS DBL



PEDESTRIAN LIGHT FIXTURE DETAIL

NO SCALE

E

DETAIL NOT USED

NO SCALE

F



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

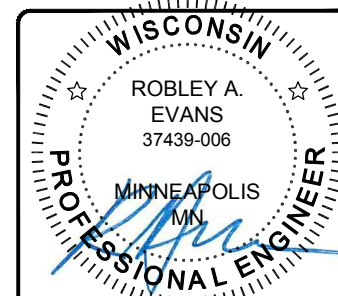


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6800 W 115th ST, SUITE 2292
 OVERLAND PARK, KS 66211
 (913) 458-2000

PROJECT NO:	197479
DRAWN BY:	PRP
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REV	DATE	DESCRIPTION
0	07/23/18	ISSUED FOR CONSTRUCTION



07/24/2018
 IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

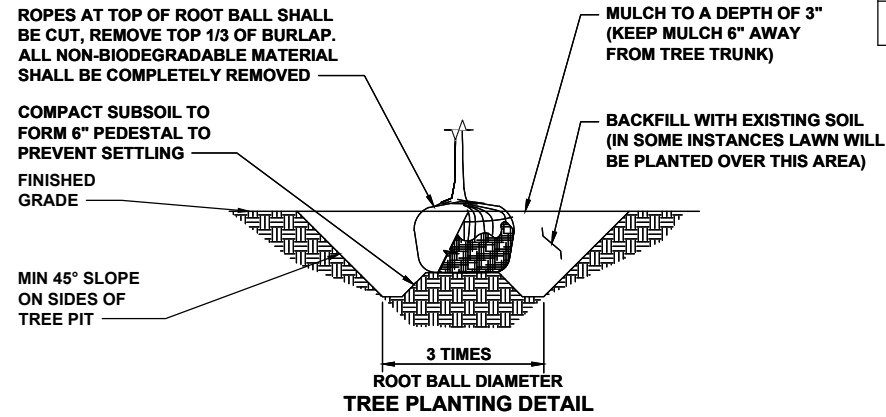
WI100199 MADISON
 WALMART 2335
 4198 NAKOOSA TRAIL
 MADISON, WI 53714

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
D-3

TREE PLANTING NOTES

1. SITUATE ROOT BALL SO THAT TOP OF ROOT BALL IS 2" ABOVE FINISHED GRADE.
2. SCARIFY SIDES AND BOTTOM OF TREE PIT.
3. BACKFILL TREE PIT WITH EXISTING SOIL AND WATER UNTIL NO MORE WATER IS ABSORBED.
4. DO NOT ALLOW AIR POCKETS TO FORM WHILE BACKFILLING.
5. INSTALL A MIN. 4'-0" DIAMETER MULCH RING AT A MIN. DEPTH OF 3" FOR TREES IN LAWN AREA.
6. TREES NEED TO BE STAKED ONLY WHEN EXTREME WIND MAKES SUCH SUPPORT NECESSARY. IF STAKING IS NECESSARY CONTACT THIS OFFICE AND A DETAIL WILL BE PROVIDED.



GENERAL NOTE

1. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY, AND MORE FREQUENTLY DURING TIMES OF EXTREME HEAT, FOR THE DURATION OF THE FIRST GROWING SEASON.

PLANT SCHEDULE						
CODE	BOTANICAL NAME	COMMON NAME	QTY	SIZE (AT CONSTRUCTION)	SPACING	SPECIFICATIONS (AT FULL SIZE)
TREES	ACER SACCHARINUM	SILVER MAPLE	1	5'-7" TALL	SEE PLAN	
SHRUBS						
GROUND COVER						
OTHER						



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



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(913) 458-2000

PROJECT NO: 197479
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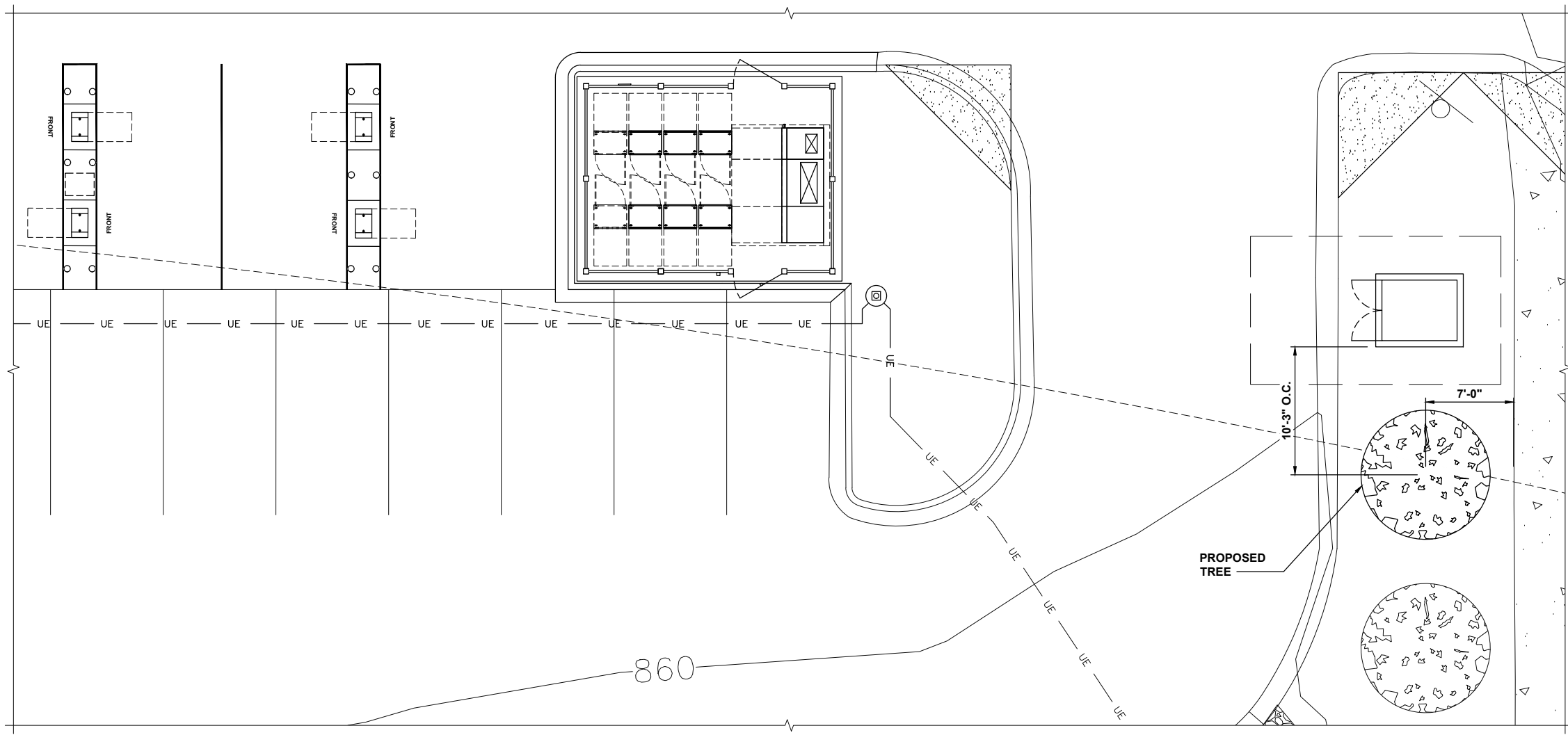
REV	DATE	DESCRIPTION
0	07/23/18	ISSUED FOR CONSTRUCTION

WISCONSIN
ROBLEY A. EVANS
37439-006
MINNEAPOLIS, MN
PROFESSIONAL ENGINEER
07/24/2018
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



WI100199 MADISON
WALMART 2335
4198 NAKOOSA TRAIL
MADISON, WI 53714

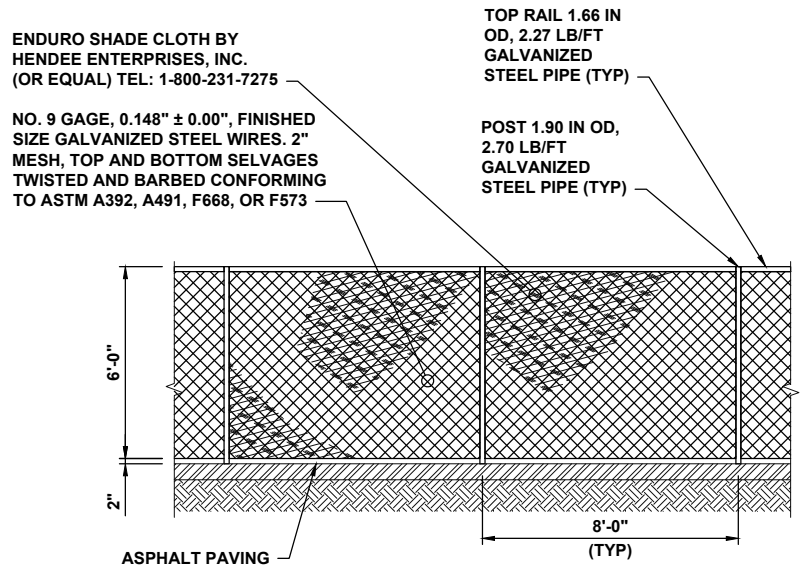
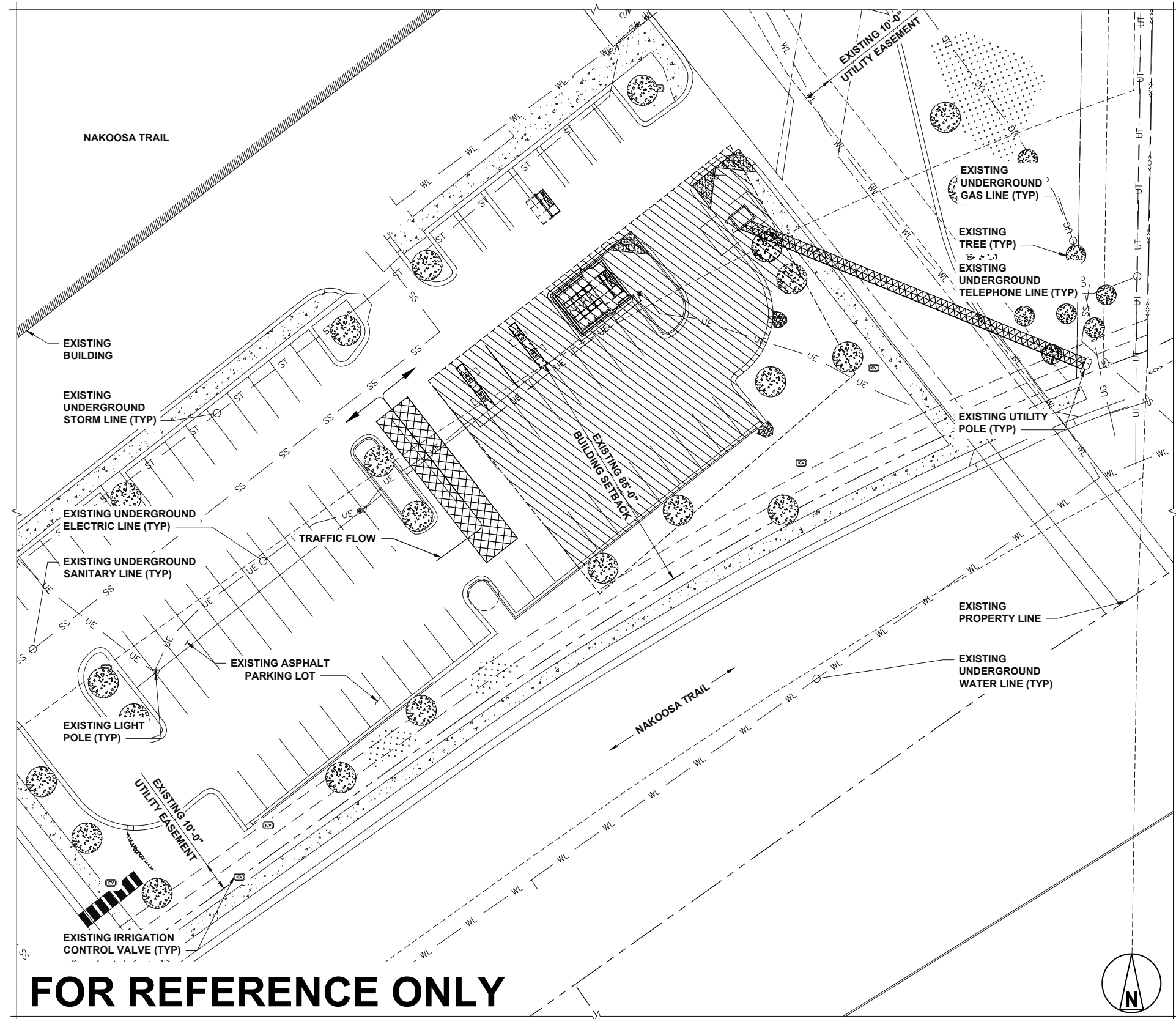
SHEET TITLE
**LANDSCAPING PLAN,
DETAILS & PLANT SCHEDULE**

SHEET NUMBER
LS-1



- NOTES**
1. WORK / STAGING AREA TO BE CONFIRMED AT PRE-CONSTRUCTION SITE MEETING AND SURROUNDED BY TEMPORARY FENCE DURING CONSTRUCTION.
 2. POSSIBLE LOCATION FOR TEMPORARY DRIVE AISLE CLOSURE DURING CONSTRUCTION.
 3. CONTRACTOR TO PROVIDE TEMPORARY SIGNS TO DIRECT TRAFFIC FLOW.
 4. SHORT TERM FENCING TO BE PROVIDED OUTSIDE OF TEMPORARY FENCE FOR ANY OPEN TRENCHES LEFT OVER NIGHT OR UNATTENDED.

LEGEND	
	WORK / STAGING AREA
	DRIVE AISLE CLOSURE
	UTILITY LINE TO BE BORED
	UTILITY LINE TO BE TRENCHED



TEMPORARY FENCE DETAIL
NO SCALE

FOR REFERENCE ONLY



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



BLACK & VEATCH

6800 W 115th ST, SUITE 2292
OVERLAND PARK, KS 66211
(913) 458-2000

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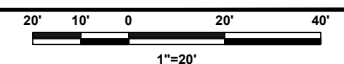
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**WI100199 MADISON
WALMART 2335
4198 NAKOOSA TRAIL
MADISON, WI 53714**

SHEET TITLE
STAGING PLAN

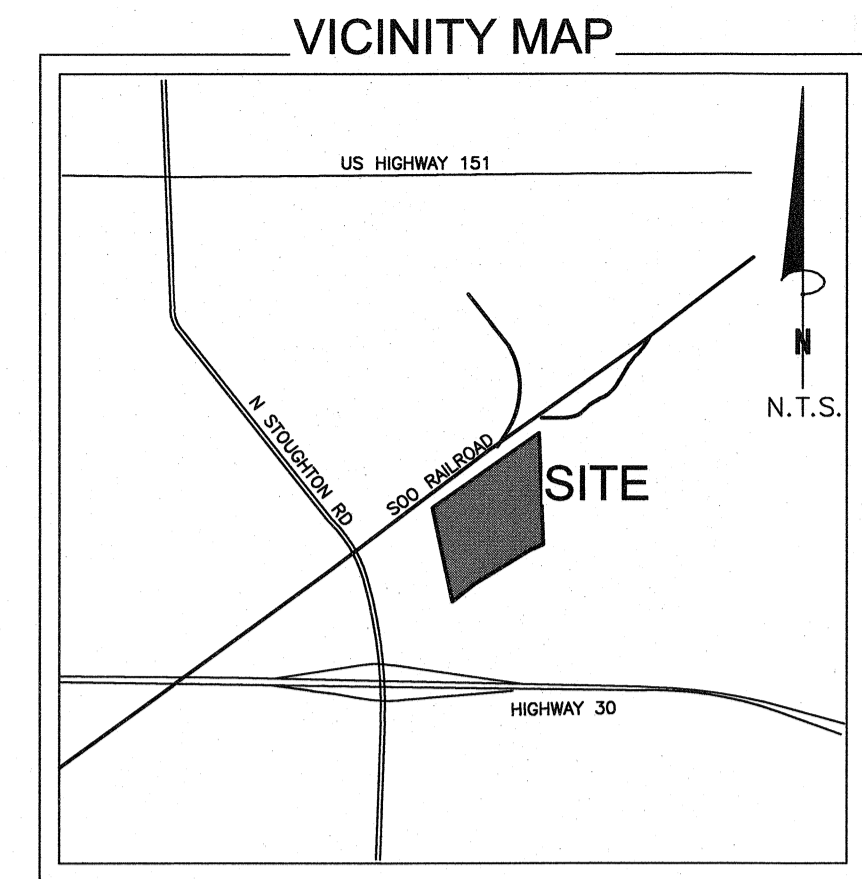
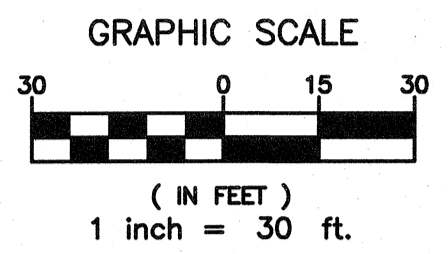
SHEET NUMBER
-

STAGING PLAN



LEGEND

	SITE BENCHMARK		GAS LINE (UNDERGROUND)
	SANITARY MANHOLE		ELECTRIC LINE (UNDERGROUND)
	STORM INLET (RECTANGLE)		CHAIN LINK FENCE
	IRRIGATION CONTROL VALVE		IRON FENCE
	TELEPHONE PEDESTAL		FLOODPLAIN ZONE AE BOUNDARY
	CONIFEROUS TREE		SUBJECT PROPERTY LINE
	DECIDUOUS TREE		ADJACENT PROPERTY LINE
	SIGN		ZONING BOUNDARY
	LIGHT POLE		CONCRETE AREA
	STORM LINE (UNDERGROUND)		RIP-RAP AREA
	CULVERT		
	SANITARY LINE (UNDERGROUND)		



PROPERTY DESCRIPTION:

Lot 1 of Certified Survey Map number 9518, as recorded on November 18, 1999 in Volume 54 of Certified Surveys, pages 187-191 in the City of Madison, County of Dane, State of Wisconsin. Containing 22.8 acres, more or less.

Lot 2 of Certified Survey Map number 9518, as recorded on November 18, 1999 in Volume 54 of Certified Surveys, pages 187-191 in the City of Madison, County of Dane, State of Wisconsin. Containing 1.1 acres, more or less.

Lot 3 of Certified Survey Map number 9518, as recorded on November 18, 1999 in Volume 54 of Certified Surveys, pages 187-191 in the City of Madison, County of Dane, State of Wisconsin. Containing 1.0 acres, more or less.

Lot 1 of Certified Survey Map number 9519, as recorded on November 18, 1999 in Volume 54 of Certified Surveys, pages 192-195 in the City of Madison, County of Dane, State of Wisconsin. Containing 3.0 acres, more or less.

As recorded in Document No. 3532519 in the public records of Dane County Wisconsin.

- SCHEDULE B2 EXCEPTIONS:**
- Item No.
- AUTHORIZATION FOR ACCESS TO OR ACROSS A CONTROLLED-ACCESS HIGHWAY Recorded June 4, 2007. DOCUMENT NO. 4315753
GRANTOR: State of Wisconsin, Department of Transportation, GRANTEE: Imhoff Family Trust, et. al.
-AFFECTS SURVEY AREA, NOTHING ADDITIONAL TO SHOW.
 - SANITARY SEWER EASEMENT Recorded October 7, 2009. DOCUMENT NO. 46011100.
GRANTOR: Wal-Mart Real Estate Business; GRANTEE: Madison Metropolitan Sewerage District
-AFFECTS SURVEY AREA, SHOWN HEREON.
 - EASEMENT Recorded February 27, 2013. DOCUMENT NO. 4965434
GRANTOR: Members of class action settlement; GRANTEE: Sprint Communications Company L.P., Qwest Communications Company, LLC, and Witel Communications, LLC.
-MAY AFFECT SURVEY AREA, NO MATHEMATICAL DESCRIPTION AVAILABLE, OR DESCRIPTION UNCLEAR.
 - AGREEMENT AND PARTIAL RELEASE OF RESTRICTIVE COVENANT, Recorded September 5, 2013. DOCUMENT NO. 5022083.
-AFFECTS SURVEY AREA, BLANKET IN NATURE.
 - DECLARATION OF CONDITIONS, COVENANTS AND RESTRICTIONS FOR MAINTENANCE OF STORMWATER MANAGEMENT MEASURES, Recorded July 30, 2015. DOCUMENT NO. 5172741.
-AFFECTS SURVEY AREA, BLANKET IN NATURE.
 - DECLARATION OF CONDITIONS, COVENANTS AND RESTRICTIONS FOR MAINTENANCE OF STORMWATER MANAGEMENT MEASURES, Recorded November 24, 2015. DOCUMENT NO. 5199892
-AFFECTS SURVEY AREA, BLANKET IN NATURE.
 - PUBLIC WATER MAIN EASEMENT, Recorded February 9, 2016. DOCUMENT NO. 5214109.
GRANTOR: Wal-Mart Real Estate Business Trust; GRANTEE: City of Madison, Wisconsin
-AFFECTS SURVEY AREA, SHOWN HEREON.
 - CERTIFIED SURVEY MAP NO. 9518 Recorded November 2, 1999. DOCUMENT NO. 3172893
-IS NOT ON OR AFFECT SURVEY AREA.
 - CERTIFIED SURVEY MAP NO. 9519 Recorded May 12, 1999. DOCUMENT NO. 3172894.
-IS NOT ON OR AFFECT SURVEY AREA.
- Items not listed above are determined non-survey related items and are not plotted hereon.

- NOTES:**
- This is a topographic map. This is not a boundary survey and is only intended to depict those topographic features or improvements shown. The property lines shown are record lines only and are shown for graphical reference only.
 - Any underground utilities shown have been located from field survey information. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from the information available.
 - FEDERAL EMERGENCY MANAGEMENT AGENCY, FEMA FIRMeTte published 5/11/18, referencing Flood Insurance Rate Map, Map Number 55025C0431H effective date September 17, 2014, indicates this parcel of land is located in Zone X (Area of minimal flood hazard).
 - This survey does not constitute a title search by Clark Land Surveying, Inc. to determine ownership or easements of record. For all information regarding easements, rights of way and title of record, Clark Land Surveying, Inc. relied upon a Search Report, prepared by Pacific Corporate & Title Services with an order number of RC2019739, dated MAY 10, 2018.
 - Elevations are based on NAVD 88 datum.
 - BENCHMARK: Square cut on southerly side of concrete light pole base, as shown. Elevation: 863.42' (NAVD 88).
 - BASIS OF BEARINGS: Bearings are relative to those shown upon the Certified Survey Map of a parcel recorded as Document No. 3172893 of the Official Public Records of Dane County, Wisconsin.
 - Field work for this survey was completed on May 15, 2018.
 - This site is zoned "CC" (Commercial Center) per City of Madison Wisconsin Planning Department.
Building Setbacks: Front: 85', Side: One story-5', two story-6', Rear: Lesser of 20% of lot, or 20'
No zoning information provided by the client. Zoning setbacks shown hereon are the interpretation of the surveyor. For clarification of exact zoning designations and setback locations, please, contact the City of Madison Wisconsin Planning and Zoning Department at (608) 266-4558.

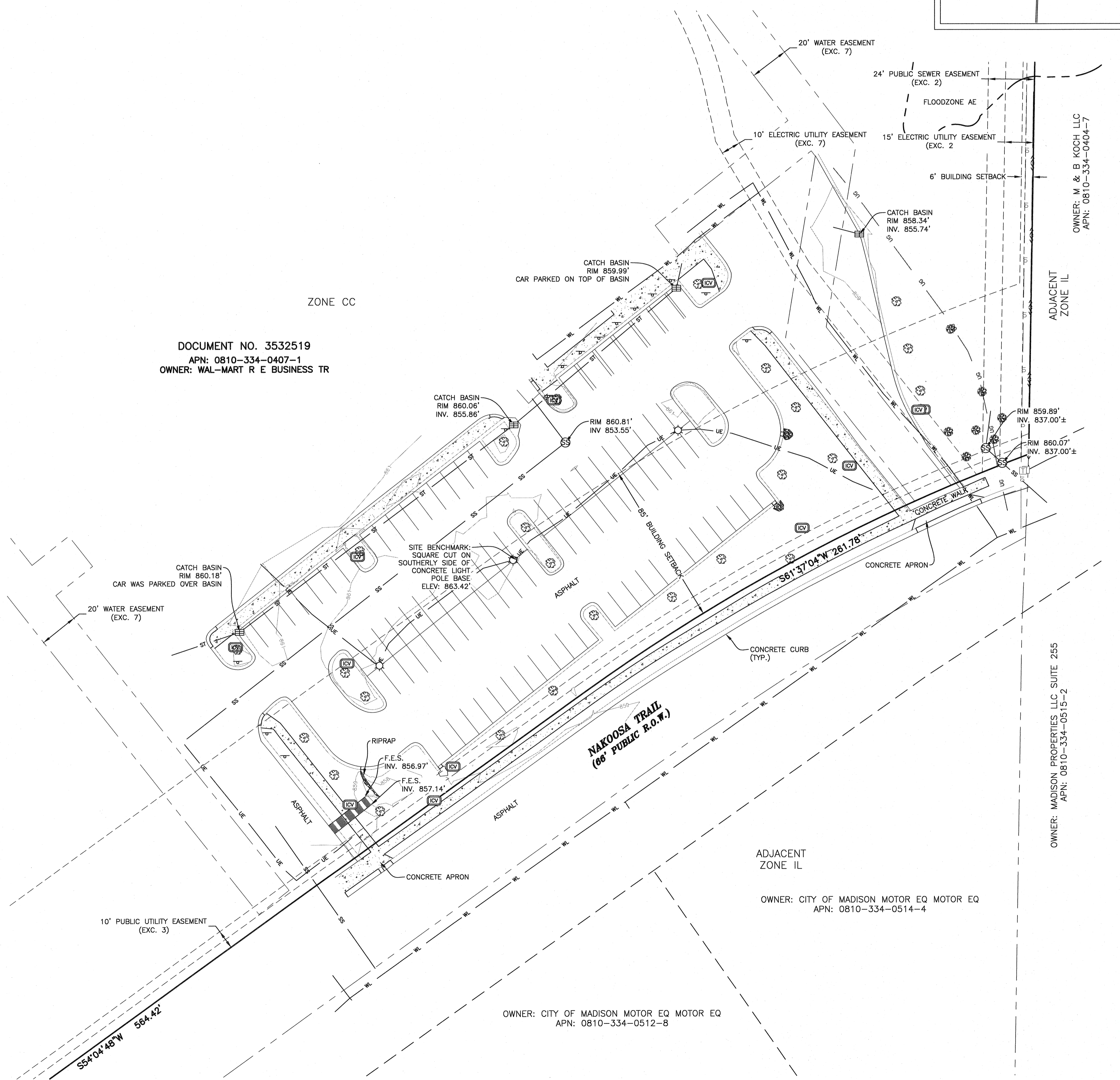
SURVEYOR'S STATEMENT:

On the basis of my knowledge, information and belief, I hereby state and declare that this drawing was prepared under my direct supervision to the standard of care of surveyors practicing in the State of Wisconsin and that the information shown hereon is true and correct to the best of my knowledge and belief.

This statement is neither a warranty nor a guarantee, either expressed or implied.



Kevin C. Lewis
Wisconsin Professional Land Surveyor No. 2775
For and on behalf of Clark Land Surveying, Inc.



Clark Land Surveying, Inc.
177 S. Tiffany Dr., Unit 1 • Pueblo West, CO 81007 • 719.582.1270
www.clarkls.com

No.	Description	By	Date

SITE NAME:
W1100199 Madison

TOPOGRAPHIC SURVEY

NE 1/4 OF THE SW 1/4; NW 1/4; SW 1/4 SECTION 33
TOWNSHIP 8N, RANGE 10E, OF THE P.M.M.
CITY OF MADISON, COUNTY OF DANE, STATE OF WISCONSIN

Project 180613
Drawn By: dz CAD
Checked By: []
Date: 5/18/18
Sheet 1 of 1

FOR REFERENCE ONLY



NO.	DESCRIPTION	QTY	UNIT
1
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50



FOR REFERENCE ONLY



ELECTRIFY AMERICA, LLC.
2000 EDMUND HALLEY DRIVE
SUITE 200
RESTON, VIRGINIA 20191



BLACK & VEATCH

6800 W 115th ST, SUITE 2292
OVERLAND PARK, KS 66211
(913) 458-2000

PROJECT NO: 197479
DRAWN BY: PRP
CHECKED BY: NMB

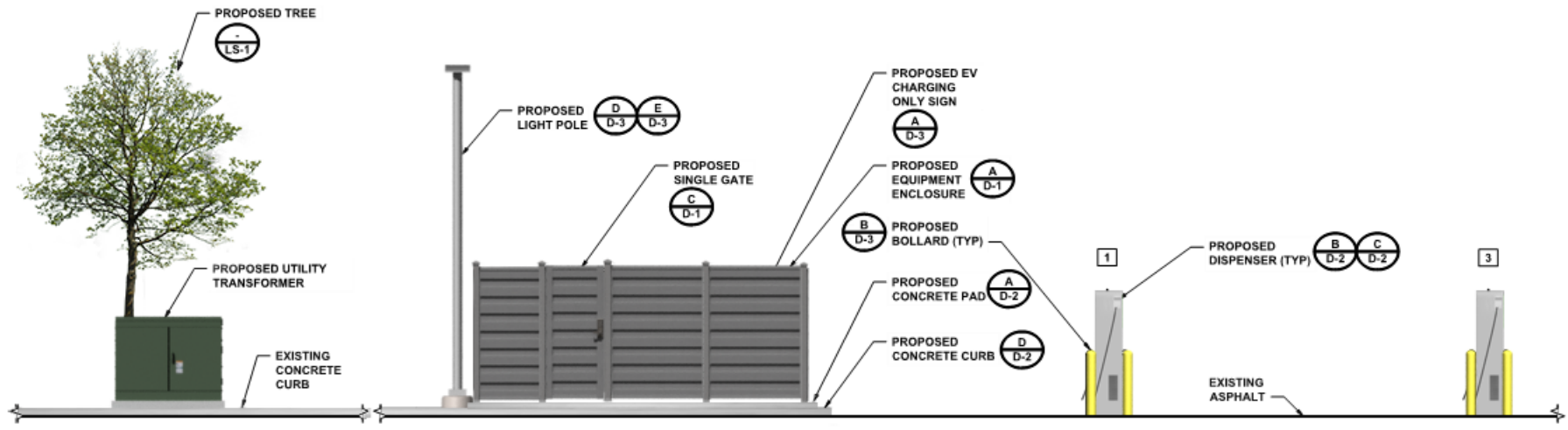
REV	DATE	DESCRIPTION
0	07/23/19	ISSUED FOR CONSTRUCTION

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

WI100199 MADISON
WALMART 2335
4198 NAKOOSA TRAIL
MADISON, WI 53714

SHEET TITLE
SITE ELEVATION

SHEET NUMBER
C-5



SITE ELEVATION

