

PROJECT NOTES

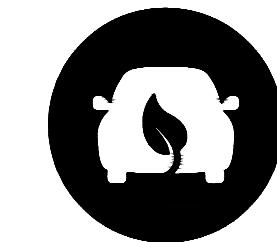
1. SITE INFORMATION OBTAINED FROM THE FOLLOWING:

- A. COLLIER'S ENGINEERING & DESIGN DID NOT VISIT THIS SITE TO VERIFY EXISTING CONDITIONS. ANY CONFLICT WITH THE PROPOSED DESIGN MUST BE DISCUSSED WITH THE CONSTRUCTION MANAGER.
- B. A SURVEY HAS NOT BEEN CONDUCTED BY COLLIER'S ENGINEERING AND DESIGN. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. THE PROPOSED FACILITY WILL COMPLY WITH ALL STATE AND LOCAL STORMWATER ORDINANCES.
10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
11. THE FACILITY DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
12. CONTRACTOR MUST FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
13. CONTRACTOR SHALL CONTACT STATE SPECIFIC ONE CALL SYSTEM THREE WORKING DAYS PRIOR TO ANY EARTH MOVING ACTIVITIES.

By: RYAN DEVANY
Drawing: 182689 | Fairfield Inn and Suites Webster East | CD Rev A | Date: 1/10/2023

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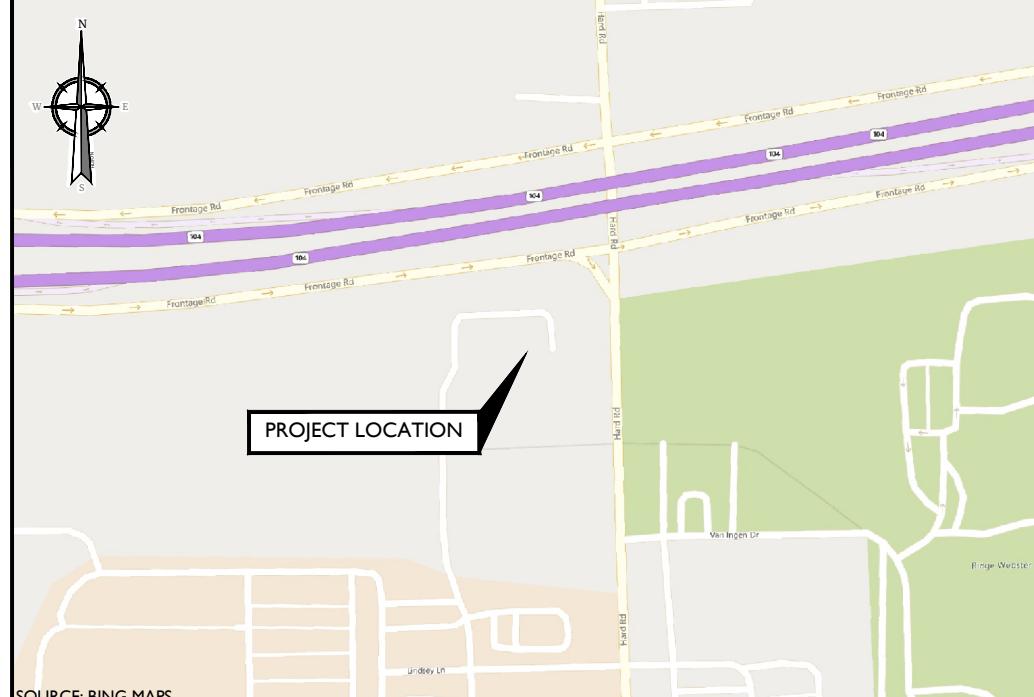


ChargeSmart EV

SITE NAME:
FAIRFIELD INN AND SUITES

**915 HARD ROAD
WEBSTER, NY 14580
MONROE COUNTY**

VICINITY MAP



CODE COMPLIANCE

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.

1. 2020 BUILDING CODE OF NYS, INCORPORATING THE 2018 IBC
2. 2017 NEC
3. 2020 NYS FIRE CODE
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION 360-16
5. AMERICAN CONCRETE INSTITUTE
6. CONSTRUCTION TYPE: IIB
7. USE GROUP: S2
8. INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS 81/ IEEE C2 LATEST EDITION
9. TELCORDIA GR-1275
10. ANSI T1.311
11. PROPOSED USE: ELECTRIC VEHICLE CHARGING
12. SECTION 625 OF THE NATIONAL ELECTRICAL CODE (NFPA 70)

PROJECT INFORMATION

SITE INFORMATION

LATITUDE: 43.213131° (GOOGLE EARTH)
LONGITUDE: -77.461931° (GOOGLE EARTH)
GROUND ELEVATION: 407± AMSL (GOOGLE EARTH)
JURISDICTION: TOWN OF WEBSTER
COUNTY: MONROE COUNTY

APPLICANT

COMPANY: CHARGESMART EV
ADDRESS: 5 SOUTHSIDE DRIVE, SUITE 11-184
CITY, STATE, ZIP: CLIFTON PARK, NY 12065

PROPERTY OWNER

OWNER: WIDEWATERS 5 MILELINE ASOC LLC
ADDRESS: 1 FOUNTAIN PLZ
CITY, STATE, ZIP: BUFFALO, NY 14203-1495

ENGINEERING COMPANY

COMPANY: COLLIER'S ENGINEERING & DESIGN, INC
ADDRESS: 2000 MIDLANTIC DRIVE, SUITE 100
CITY, STATE, ZIP: MT. LAUREL, NJ 08054
CONTACT: STEPHANIE MULHERN
(856) 797-0412
E-MAIL: STEPHANIE.MULHERN@COLLIERSENG.COM

SCOPE OF WORK

- SUPPLY AND INSTALL (1) PANEL BOARD
- SUPPLY AND INSTALL (1) METER/DISCONNECT
- SUPPLY AND INSTALL (2) 48A DUAL PORT ELECTRIC VEHICLE CHARGERS
- SUPPLY AND INSTALL (3) CONCRETE PADS
- SUPPLY AND INSTALL REQUIRED CONDUIT/WIRING
- PROVIDE TRENCHING/RESTORATION AS REQUIRED



PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

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A	04/21/25	ISSUED FOR REVIEW	JJK SLM
REV	DATE	DESCRIPTION	DRAWN BY CHECKED BY

SHEET INDEX

SHEET	DESCRIPTION
T-1	TITLE SHEET
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C-1	SITE PLAN
C-2	PARTIAL SITE PLAN
A-1	PROJECT DETAILS
A-2	PROJECT DETAILS
A-3	PROJECT DETAILS

Stephanie Mulhern
NEW YORK LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 110126
COLLIER'S ENGINEERING & DESIGN CT, P.C.
N.Y. C.O.A #: 0017609

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SITE NAME:

FAIRFIELD INN AND SUITES
915 HARD ROAD
WEBSTER, NY 14580
MONROE COUNTY

MT. LAUREL
2000 Midlantic Drive,
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Mt. Laurel, NJ 08054
Phone: 856.797.0412
COLLIER'S ENGINEERING & DESIGN,
ARCHITECTURE, LANDSCAPE ARCHITECTURE,
SURVEYING C.P.C.

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

DESIGN CRITERIA

1. NOTABLE CODE ITEMS:

1.1. WHERE PROVIDED, ELECTRIC VEHICLE CHARGING STATIONS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70. ELECTRIC VEHICLE CHARGING SYSTEM EQUIPMENT SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 2202. ELECTRIC VEHICLE SUPPLY EQUIPMENT SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 2594.

2. NFPA-70 NATIONAL ELECTRIC CODE:

2.1. ALL WORK WITHIN THESE DRAWINGS SHALL ADHERE TO NEC 625 ELECTRIC VEHICLE CHARGING SYSTEM.

625.1 SCOPE

- THIS ARTICLE COVERS THE ELECTRICAL CONDUCTORS AND EQUIPMENT EXTERNAL TO AN ELECTRIC VEHICLE THAT CONNECTS AN ELECTRIC VEHICLE TO A SUPPLY OF ELECTRICITY BY CONDUCTIVE, INDUCTIVE, OR WIRELESS POWER TRANSFER (CONTACTLESS INDUCTIVE CHARGING) MEANS, AND THE INSTALLATION OF EQUIPMENT AND DEVICES RELATED TO ELECTRIC VEHICLE CHARGING.
- INFORMATIONAL NOTE NUMBER 1: FOR INDUSTRIAL TRUCKS, SEE NFPA 505-2013, FIRE SAFETY STANDARD FOR POWERED INDUSTRIAL TRUCKS INCLUDING TYPE OF DESIGNATIONS, AREAS OF USE, CONVERSIONS, MAINTENANCE AND OPERATION.
- INFORMATIONAL NOTE NUMBER 2: UL 2594-2013, STANDARD FOR ELECTRIC VEHICLE SUPPLY EQUIPMENT, IS A SAFETY STANDARD FOR CONDUCTIVE ELECTRIC VEHICLE SUPPLY EQUIPMENT. UL 2202-2009, STANDARD FOR ELECTRIC VEHICLE CHARGING SYSTEM EQUIPMENT, IS A SAFETY STANDARD FOR CONDUCTIVE ELECTRIC VEHICLE CHARGING EQUIPMENT.

GENERAL ELECTRICAL NOTES

- ELECTRICAL CONTRACTOR SHALL PROVIDE TYPE-WRITTEN SCHEDULES OF ALL CIRCUITRY IN ALL PANELS. SCHEDULES SHALL MATCH THE LOADS SHOW IN THE PROJECT PANEL SCHEDULE INCLUDED IN THESE DRAWINGS. ALL SPARE PANEL SPACES SHALL BE FULLY PROTECTED WITH METAL BLANKS.
- ELECTRICAL DEVICES, MATERIALS AND PACKAGED EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) SUCH AS UNDERWRITERS LABORATORIES INC. (UL) FOR THE INTENDED USE, AND SHALL BEAR ITS LABEL. NOTE THAT THE NRTL APPROVAL OF INDIVIDUAL COMPONENTS OF PACKAGED EQUIPMENT DOES NOT CONSTITUTE APPROVAL OF THE ENTIRE PACKAGE.
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NFPA) AND THE BUILDING CODE REFERENCED ON SHEET T-1.
- OWNER IS TO PAY FOR ALL REQUIRED FEES AND THE CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS. THE ELECTRICAL CONTRACTOR SHALL ARRANGE FOR ALL INSPECTIONS AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATES TO OWNER PRIOR TO THE COMPLETION OF THE PROJECT.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOXES, FITTINGS, CONNECTORS, COVER PLATES AND OTHER MISCELLANEOUS ITEMS, NOT NECESSARILY DETAIL ON THESE DRAWINGS, TO RENDER THE ELECTRICAL INSTALLATION COMPLETE AND OPERATIVE, AND IN COMPLIANCE WITH APPLICABLE CODES.
- ALL WIRING SHALL BE COPPER CONDUCTOR, MINIMUM SIZE #12 AWG, UNLESS OTHERWISE NOTED..
- ELECTRICAL CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING EQUIPMENT AND NOTE CONDITIONS AND AREAS WHERE WORK WILL OCCUR IN THE FIELD.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH AND MEET ALL REQUIREMENTS OF SERVING UTILITY COMPANY.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO AVOID CONFLICTS OF EQUIPMENT INSTALLATION. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EQUIPMENT LOCATIONS, WIRING DEVICES AND LIGHTING WITH ENGINEER PRIOR TO INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL SUBMIT EQUIPMENT SHOP DRAWINGS FOR APPROVAL BY ENGINEER PRIOR TO COMMENCING INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING, AND PAINTING ASSOCIATED WITH ELECTRICAL WORK.
- ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL INSTALLED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF COMPLETION AND ACCEPTANCE BY THE OWNER. CONTRACTOR AGREES TO REPLACE ANY DEFECTIVE EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER FOR THE DURATION OF THE GUARANTEE PERIOD.
- CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING, EXCAVATION AND BACKFILL ASSOCIATED WITH THE ELECTRICAL WORK. PRIOR TO PERFORMING ANY EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE STATE SPECIFIC ONE CALL SYSTEM THREE WORKING DAYS PRIOR TO ANY EARTH MOVING ACTIVITIES.
- CONTRACTOR SHALL PROTECT EXISTING ASPHALT PARKING LOTS, DRIVEWAYS AND CONCRETE CURBING THROUGHOUT THE PROJECT DURATION. CONTRACTOR TO REPAIR PARKING LOTS, DRIVEWAY AND CURBING DAMAGED AS A RESULT OF ELECTRICAL WORK. REPAIRS SHALL MATCH EXISTING CONDITIONS OF BETTER.
- SITE RESTORATION - WHERE AND AS INDICATED BY THE OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL REPLACE ALL SURFACED DISTURBED AND SHALL RESTORE PAVING, CURBING, SIDEWALKS, DRIVEWAYS, SHRUBBERY, GRASS AREAS AND ALL OTHER SURFACES DISTURBED TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED BEFORE THE WORK BEGAN, FURNISHING ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY THERETO. THE CONTRACTOR SHALL, AT SAID CONTRACTOR'S OWN EXPENSE AND THE TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE, CLEAN UP AND CORRECT UNSIGHTLINESS, INCONVENIENCE, HAZARD OR DAMAGE CAUSED BY WATER, MUD, STONES, DUST, RUBBISH, CONSTRUCTION DEBRIS, TRAFFIC, WORKMAN OR THE GENERAL OPERATIONS. WHEEL TRACKS, PATHS, PUDDLES, DAMAGED GROWTH, RAGGED EDGES, UNDESIRABLE SPOIL FROM EXCAVATION AND ROUGH SLOPES ARE TO BE REMOVED, OBLITERATED, CORRECTED, GRADED, LEVELED, PATCHED OR SMOOTHED. ALL ADJACENT AREAS THAT HAVE BEEN DAMAGED OR THAT REQUIRE REGRADING SHALL BE SMOOTHED AND WORKED TO MAKE THE PROJECT AREA BLEND INTO EXISTING CONDITIONS. PROVIDE TOPSOIL, SEED AND MULCH WHERE REQUIRED FOR GRASS ESTABLISHMENT.

WIRING METHODS

- ALL WIRING METHODS AND INSTALLATION PRACTICES SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, LOCAL STATE CODES AND OTHER APPLICABLE LOCAL CODES.
- SYSTEM CONDUCTORS SHALL BE RATED FOR 90° C, WET RATED, UV RESISTANT AND A MINIMUM OF 600V RATED.
- SYSTEM CIRCUIT CONDUCTORS SHALL BE IDENTIFIED AT ALL TERMINATIONS, CONNECTIONS AND SPLICING POINTS AS REQUIRED PER NEC ARTICLE 690.31 (B) (1).
- DC ELECTRICAL SYSTEM CONDUCTOR COLOR CONVENTIONS SHALL BE MARKED AS FOLLOWS:

DC CONDUCTOR MARKING CONVENTIONS			
	UNGROUNDED	SOLID GROUND	FUNCTIONAL GROUND
POSITIVE	RED	REF NEC ARTICLE 200 FOR GROUNDED CONDUCTOR JACKETING REQUIREMENTS	RED
	BLACK		BLACK
GROUND	GREEN OR BARE	GREEN OR BARE	GREEN OR BARE

- LOW VOLTAGE AC CONDUCTORS (<= 600V) MUST BE 600V AND 90° C RATED
- THREE PHASE AC ELECTRICAL SYSTEM CONDUCTOR COLOR CONVENTIONS SHALL BE MARKED AS FOLLOWS:

AC CONDUCTOR MARKING CONVENTIONS			
	120/208V	277/480V & 347/600V	1000V <
PHASE A	BLACK	BROWN	BLACK
PHASE B	RED	ORANGE	RED
PHASE C	BLUE	YELLOW	BLUE
NEUTRAL	WHITE	GRAY	-
GROUND	GREEN	GREEN	GREEN OR BARE

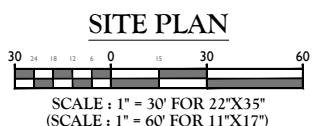
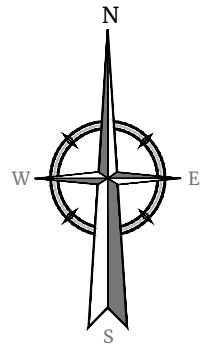
- ALL WIRES INSTALLED IN FREE AIR TO BE SECURED VIA MECHANICAL MEANS. CONDUCTORS TO BE SECURED IN A MANNER THAT ENSURES PROTECTION AGAINST ABRASION, SHARP EDGES AND POTENTIAL INSULATION DAMAGING ELEMENTS.
- CONDUCTORS ROUTED OUT OF A CONDUIT SHALL BE SUPPORTED AND SECURED AT INTERVALS DEFINED BY THE NEC.
- CONDUCTORS ROUTED IN VERTICAL RACEWAYS SHALL BE SUPPORTED AS REQUIRED IN NEC 300.19.

GROUNDING NOTES

- ALL ENCLOSURES AND NON-CURRENT CARRYING METALLIC PARTS OF THE ELECTRICAL SYSTEM, RACEWAY SYSTEMS AND EQUIPMENT GROUND BUSES SHALL BE GROUNDED TO THE GROUNDING SYSTEM VIA EQUIPMENT GROUNDING CONDUCTORS (EGC). GROUND CONTINUITY SHALL BE MAINTAINED THROUGHOUT.
- EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED PER NEC 250.122.
- GROUNDING RODS SHALL BE 10'-0" LONG 3/4"Ø COPPER CLAD UNLESS OTHERWISE SPECIFIED.
- GROUND RODS, GROUNDING ELECTRODE CONDUCTORS AND CONNECTIONS TO BE MADE A MINIMUM OR 30" BELOW GRADE UNLESS OTHERWISE SPECIFIED.

CONDUIT, CABLE TRAY AND RACEWAY NOTES

- CONDUIT AND CABLE ROUTES ARE DIAGRAMMATIC AND REQUIRE CONTRACTOR FIELD VERIFICATION. SIGNIFICANT DEVIATION FROM THE PROPOSED ROUTE MUST BE COORDINATED PRIOR TO INSTALLATION.
- WHERE CIRCUIT ROUTING IS NOT SHOWN AND THE DESTINATION IS INDICATED, THE CONTRACTOR SHALL DETERMINE AND COORDINATE THE EXACT ROUTE PRIOR TO INSTALLATION.
- ALL OUTDOOR CONDUIT SHALL HAVE RAIN-TIGHT CONNECTORS AND COUPLINGS.
- IN ADDITION TO THOSE SHOWN IN THE DRAWINGS, CONTRACTOR SHALL DETERMINE AND PROVIDE ENCLOSURES AS NECESSARY TO FACILITATE THE INSTALLATION OF WIRING. BENDS IN CONDUIT BETWEEN PULL BOXES SHALL NOT EXIST 360° OF BED.
- PULL AND JUNCTION BOXES SHALL BE SIZED IN COMPLIANCE WITH NEC ARTICLE 314.
- CONDUIT TO BE ROUTED IN A MANNER THAT DOES NOT OBSTRUCT EQUIPMENT WORKING CLEARANCES AND ACCESSIBILITY.
- ALL OUTDOOR RATED ENCLOSURES SHALL BE NEMA 3R.
- WHEN TRANSITIONING FROM FREE AIR TO CONDUIT, A LISTED FITTED SHALL BE USED TO PREVENT THE ENTRY OF MOISTURE.



By: RYAN.DEVANY
KuPublish_18768Fairfield Inn and Suites Rochester East.CD.RevA.dwg\C-1

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Engineering Design

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ChargeSmart EV



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PREPARING TO DISTURB THE EARTH'S
SURFACE ANYWHERE IN ANY STATE

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A	04/21/25	ISSUED FOR REVIEW	JIK
EV	DATE	DESCRIPTION	DRAWN PICKED

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YORK LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 110126
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NY C.G.C. #1817582

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SITE NAME:

FAIRFIELD INN AND SUITES
915 HARD ROAD
WEBSTER, NY 14580
MONROE COUNTY



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Suite 100
Mt. Laurel, NJ 08054
Phone: 856.797.0412

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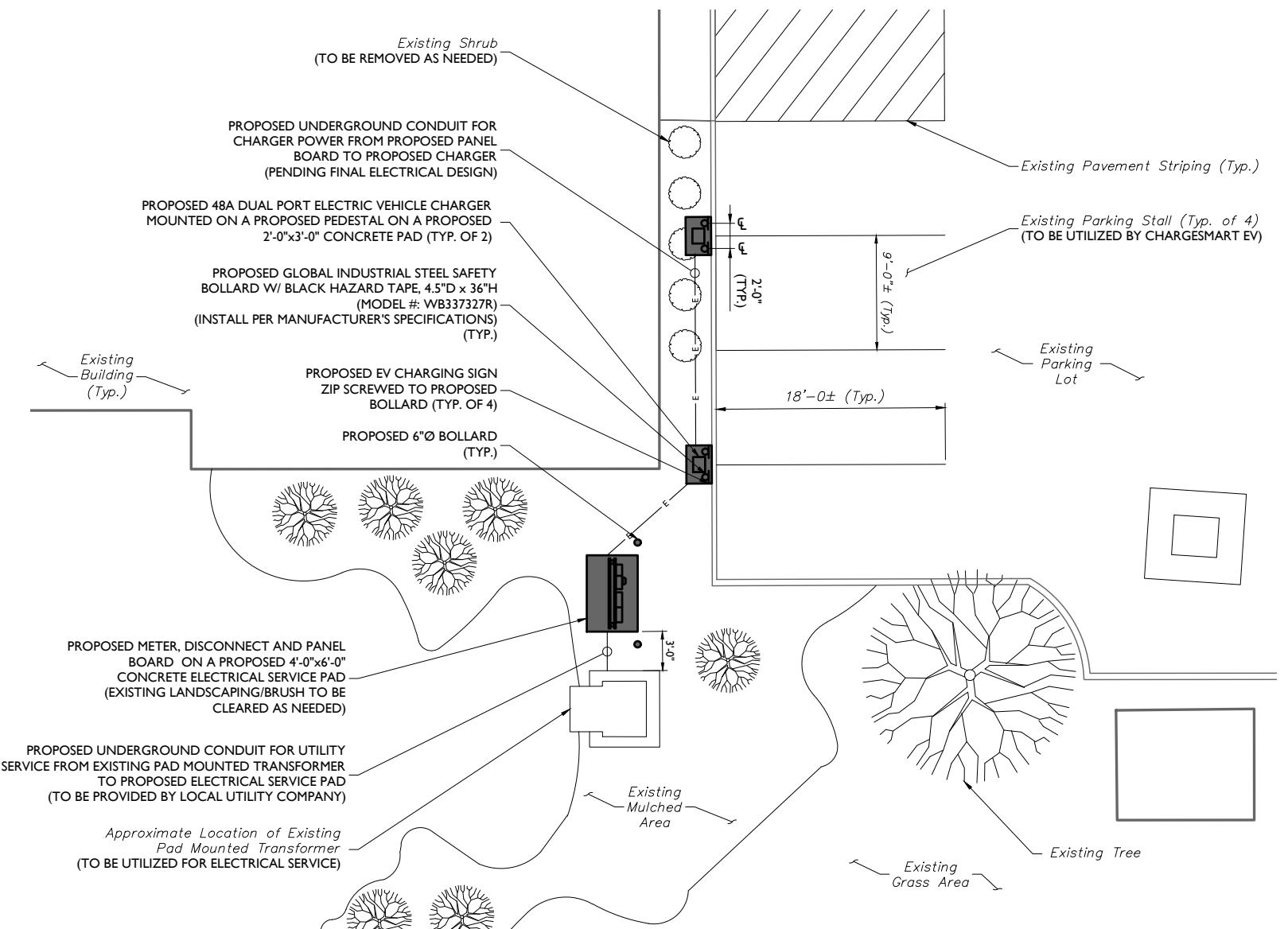
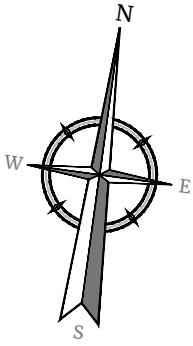
MEET TITLE :

SITE PLAN

STREET NUMBER:

1

TE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION



PARTIAL SITE PLAN

6 48 36 24 12 0 3 6 12
 SCALE : 1" = 6' FOR 22"X34"
 (SCALE : 1" = 12' FOR 11"X17")

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SCALE: AS SHOWN JOB NUMBER: 25902012

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A	04/21/25	ISSUED FOR REVIEW	JJK SLM
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915 HARD ROAD
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SURVEYING CT, P.C.

SHEET TITLE: PARTIAL SITE PLAN

SHEET NUMBER: C-2

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

ChargeSmart EV

COMMERCIAL MAXICHARGER™ AC ULTRA
80A

The 80A charging station is the most powerful Level 2 EV charger in the ChargeSmart EV line-up.



ChargeSmart EV

5 Southside Dr. Suite 11-184 | Clifton Park, NY 12065 | info@ChargeSmartEV.com | 888-717-4544

MAXICHARGER™ AC ULTRA SERIES: 80A OVERVIEW

THE FASTEST WAY TO CHARGE 2 VEHICLES AT ONCE

This workhorse is the most powerful dual port AC charger on the market. The system was designed to ensure form meets function, with a footprint for limited space applications. This is an ideal solution for commercial charging sites, with an 8-inch HD screen that offers the ability to generate additional ad revenue.

-  Deliver Up To 19.2kW
-  One-Piece Pedestal Housing Combination
-  WiFi Hotspot Sharing
-  Power Sharing
-  8-Inch HD Advertising Screen
-  App, RFID Card, Credit Card, Mobile Payment
-  One-Stop Cloud Network Management
-  OCPP 1.6 / 2.0.1
-  Weather Resistant

ChargeSmart EV

MAXICHARGER™ AC ULTRA SERIES: 80A PRODUCT SPECIFICATIONS

PRODUCT INFORMATION

INPUT/OUTPUT POWER RATING & CURRENT
2*19.2kW (240V AC*80A)
Output Amperage Adjustable Via Mobile App, From 6A to 80A

INPUT/OUTPUT VOLTAGE
208V±15%; 240V±15%, 60Hz

INPUT WIRING
L1/N+PE, L1/L2/PE

INPUT CORD
Hardwired

CONNECTOR TYPE
SAE J1772, 7.5M (25') or 5M

GROUND FAULT DETECTION
20mA CCID

PROTECTION
Overcurrent, Overvoltage, Undervoltage, Integrated Surge Protection

CARD READER
Optional: ISO 15693, ISO 14443, NFC

POWER MEASUREMENT ACCURACY
+/- 1.0% From 1% To Full Scale

USER INTERFACE & COMMUNICATION

STATUS INDICATION
LED / APP / LCD (8 inch, 1280x720 Touch Screen)

USER INTERFACE
ChargeSmart EV ("CSEV") App

CONNECTIVITY
Bluetooth, Wi-Fi, Ethernet, 4G, RS485

COMMUNICATIONS PROTOCOLS
OCPP 1.6 (Can Be Upgraded To OCPP 2.0.1 Later)

USER AUTHENTICATION
APP, RFID Card, Credit Cards (Optional)

GENERAL CHARACTERISTICS

ENCLOSURE RATING
NEMA 3R

OPERATION ALTITUDE
2000M

OPERATING TEMPERATURE
-40°F ~ +122°F (-40°C ~ +50°C)

STORAGE TEMPERATURE
-40°F ~ +185°F (-40°C ~ +85°C)

MOUNTING
Wall or Floor Using a Pedestal

DIMENSIONS (H X W X D)
Charger Only: 24.60" (625mm) x 12.60" (320mm) x 6.70" (170mm)

Charger with Pedestal: 74.13" (1883mm) x 14.17" (360mm) x 11.29" (287mm)

SOFTWARE UPDATE

COMPLIANCE & SAFETY
OTA Updates Via Web Portal

CERTIFICATIONS & STANDARDS

COMPLIANCE & SAFETY
UL 2231-1, UL 2231-2, UL2594, NEC Article 625, CSA C22.2, UL 916

EMC COMPLIANCE
FCC 15 Class B

CERTIFICATION
Energy Star, OpenADR 2.0B, ISO 15118

WARRANTY
36 Months with Warranty (Extensions Available)

ChargeSmart EV

MAXICHARGER™ AC ULTRA SERIES: 80A



ChargeSmart EV

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CHARGESMART 19.2kW EV CHARGER (LEVEL 2)

NOT TO SCALE

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COLLIERS ENGINEERING & DESIGN CT, P.C.
N.Y. C.O.A. #: 0017609

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SITE NAME:

FAIRFIELD INN AND SUITES
915 HARD ROAD
WEBSTER, NY 14580
MONROE COUNTY

MT. LAUREL
2000 Midland Drive,
Suite 100
Mt. Laurel, NJ 08054
Phone: 856.797.0412
COLLIERS ENGINEERING & DESIGN,
ARCHITECTURE, LANDSCAPE ARCHITECTURE,
SURVEYING C.P.C.

PROJECT DETAILS

A-I

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



ChargeSmart EV



PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF
EXCAVATORS, DESIGNERS, OR ANY PERSON
PREPARING TO DISTURB THE EARTH'S
SURFACE ANYWHERE IN ANY STATE
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT:
WWW.CALL811.COM

SCALE: AS SHOWN JOB NUMBER: 25902012

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A	04/21/25	ISSUED FOR REVIEW	JJK SLM
REV	DATE	DESCRIPTION	DRAWN BY CHECKED BY

Stephanie Mulhern
NEW YORK LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 110126
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.Y. C.O.A #: 0017609

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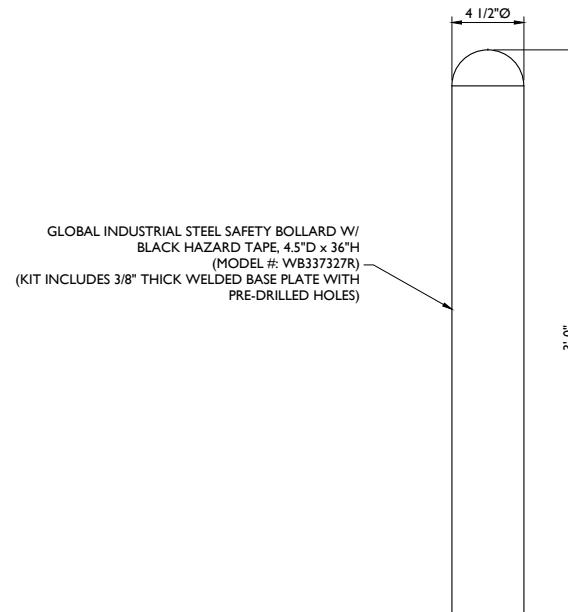
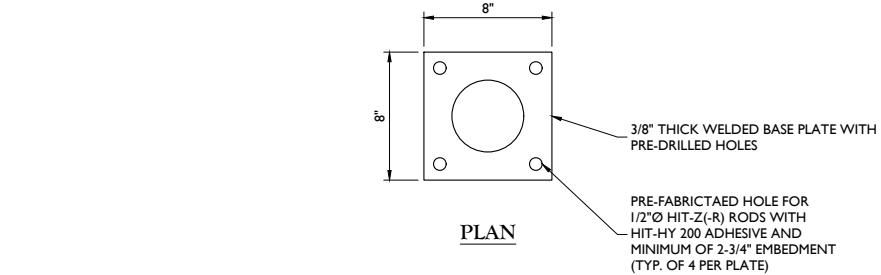
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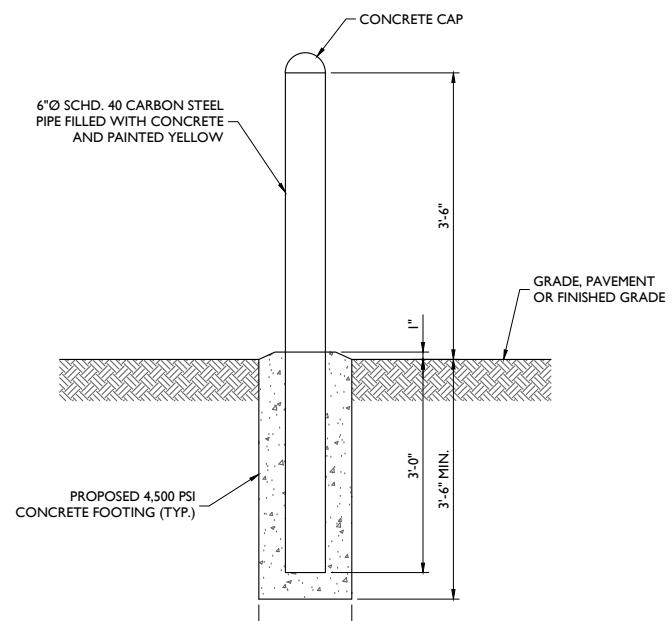
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SHEET TITLE: PROJECT DETAILS

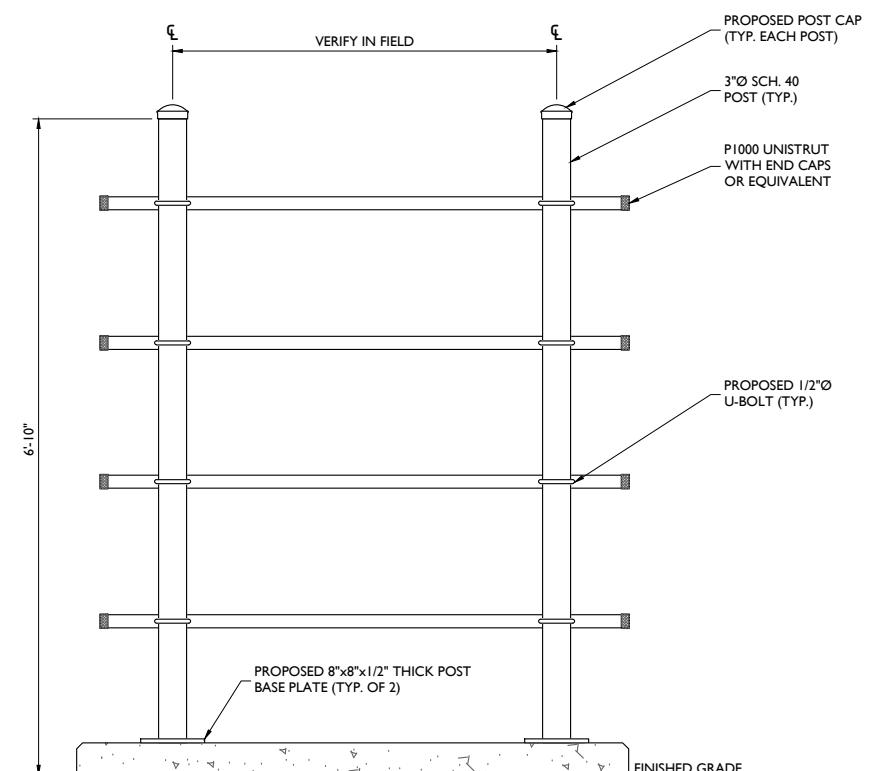
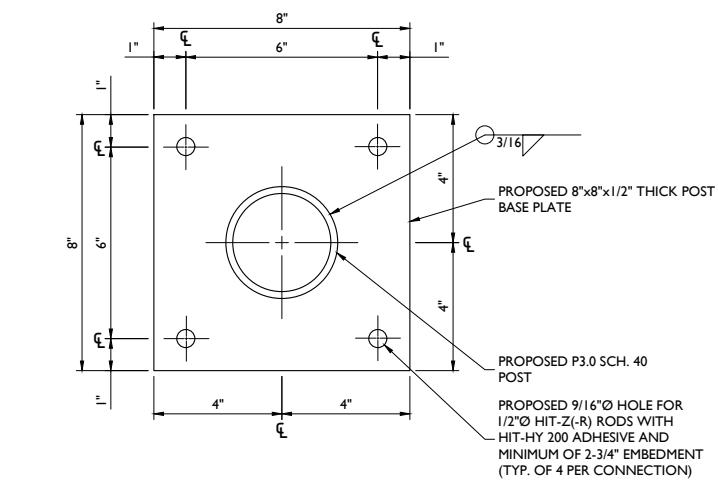
SHEET NUMBER: A-2



BOLT-ON BOLLARD DETAIL
NOT TO SCALE



BOLLARD DETAIL (FOR UTILITY FRAME)
NOT TO SCALE

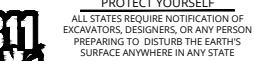


BACKBOARD DETAIL
NOT TO SCALE

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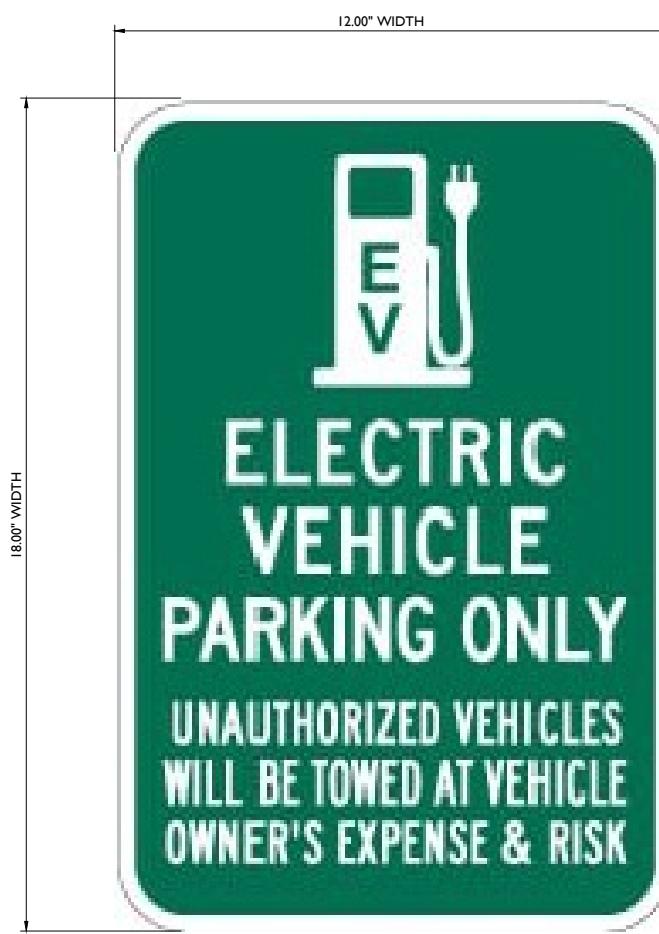


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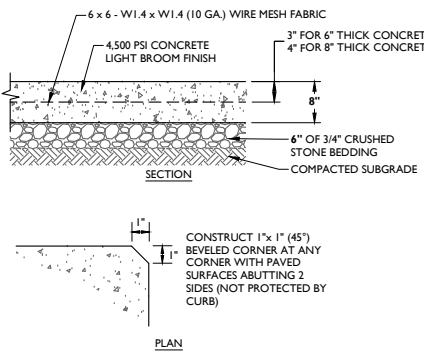
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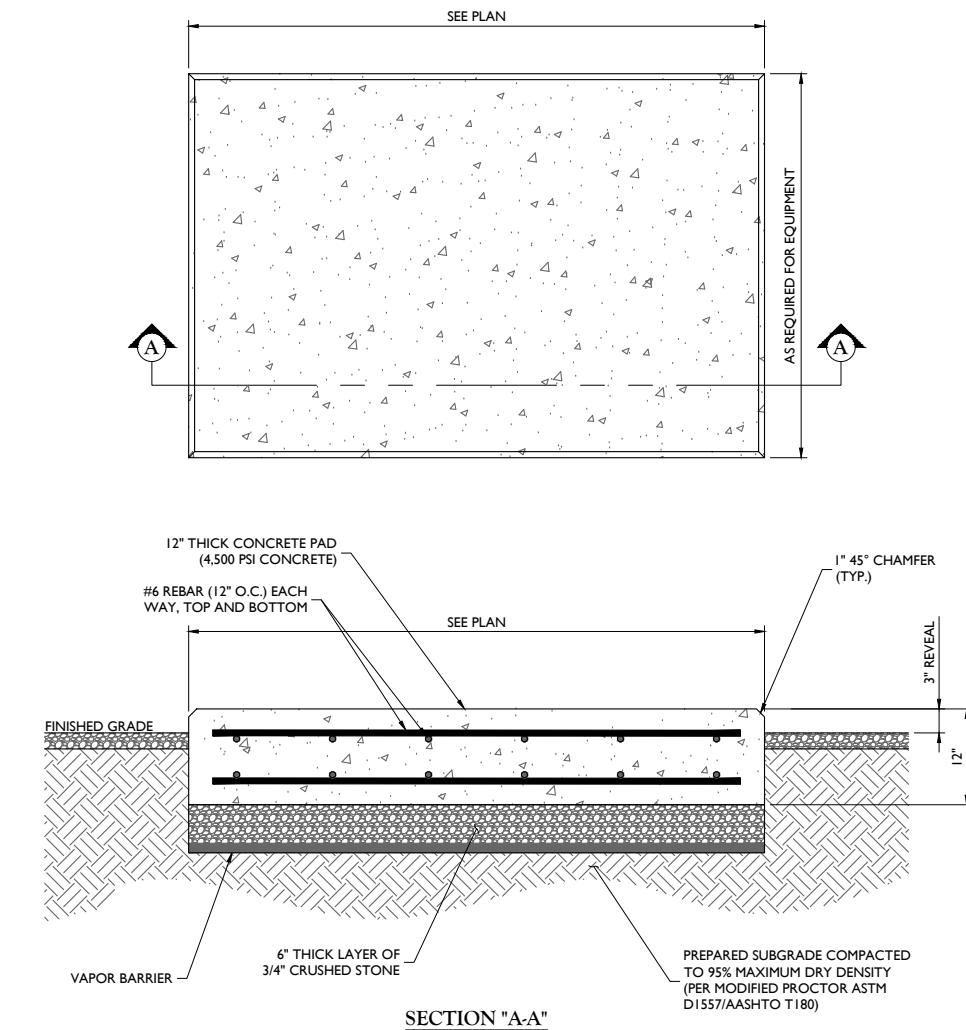


PARKING SIGN DETAIL
NOT TO SCALE

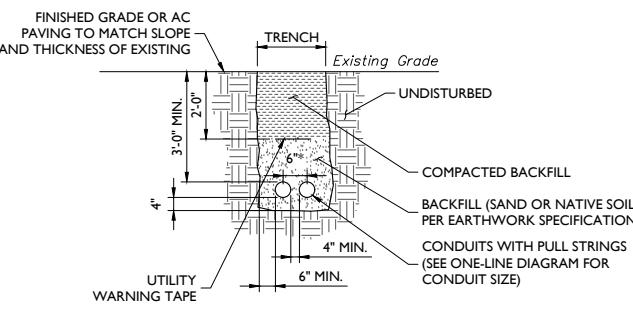


**CONCRETE PAD DETAIL
(FOR CHARGERS)**

NOT TO SCALE



**CONCRETE EQUIPMENT PAD DETAILS
(FOR UTILITY FRAME)**
NOT TO SCALE



UTILITY CONDUIT RUN
NOT TO SCALE

DESIGN INFORMATION:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336A, ASTM A184, ASTM A185 AND THE DESIGN & CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- THE DESIGN SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE AS SHOWN ON SHEET T-1.

EARTHWORK:

- FOUNDATIONS HAVE BEEN DESIGNED TO BEAR ON (UNDISTURBED RESIDUAL SOILS/COMPACTED STRUCTURAL FILL), CAPABLE OF SAFELY SUPPORTING AN ALLOWABLE BEARING PRESSURE OF 1,500 PSF. IF FOUNDATION CONDITIONS PROVE UNACCEPTABLE AT ELEVATIONS SHOWN, EXCAVATION SHALL BE CARRIED DEEPER AND SHALL BE BACKFILLED WITH LEAN CONCRETE TO PLAN FOOTING BOTTOM, OR REDESIGN OF FOUNDATIONS WILL BE REQUIRED AT THE DIRECTION OF THE ENGINEER.
- DESIGN FURNISH AND INSTALL TEMPORARY SHEETING, SHORING, AND DRAINAGE TO MAINTAIN THE EXCAVATION AND PROTECT SURROUNDING STRUCTURES AND UTILITIES.
- THOROUGHLY COMPACT ALL BOTTOM OF FOOTINGS PRIOR TO PLACING ANY CONCRETE.

CONCRETE:

- FORMWORK**
 - CONCRETE CONSTRUCTION SHALL CONFORM TO "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301-16).
 - FORMWORK SHALL CONFORM TO ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
- REINFORCEMENT**
 - REINFORCING STEEL ASTM A615, GRADE 60, WELDED WIRE ASTM A185 (FLAT SHEET), LAPS 40 BAR DIAMETERS UNLESS NOTED. BARS SHALL BE SECURELY HELD IN ACCURATE POSITION BY SUITABLE ACCESSORIES, TIE BARS, SUPPORT BARS, ETC. HOOK LENGTHS SHALL BE 12 BAR DIAMETERS.

- CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED.

- FOOTINGS AND SLABS CAST AGAINST GROUND
- CONCRETE TO BE IN CONTACT WITH GROUND OR WEATHER AT BARS GREATER THAN 5"
- AT BARS #5 OR LESS
- CONCRETE NOT TO BE EXPOSED TO GROUND OR WEATHER BEAMS, GIRDERS, AND COLUMNS
- SLABS AND WALLS

3"
2"
1 1/2"
1 1/2"
3/4"

- CAST IN PLACE CONCRETE

- MINIMUM 28 DAY CYLINDER STRENGTH AND MAXIMUM SLUMP, PRIOR TO ADDITION OF SUPER PLASTICIZERS, AS FOLLOWS:

- CLASS I FOOTINGS
- CLASS III INTERIOR ELEVATED SLABS AND WALLS
- CLASS V OTHER WORK
- CLASS VI LEAN CONCRETE FOR OVEREXCAVATION OF FOUNDATIONS

4500 PSI
4000 PSI
4000 PSI
2000 PSI

3"
4"
4"
N/A

- MIX DESIGN TO BE IN ACCORDANCE WITH ACI 318, CHAPTER 5. NO CALCIUM CHLORIDE ADMIXTURE CONTAINING CHLORIDES SHALL BE USED IN ANY CONCRETE

- COARSE AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33 SIZE #57. COARSE AGGREGATE FOR LIGHTWEIGHT CONCRETE SHALL CONFORM TO ASTM C330 GRADED 3/4" TO 1/4".

- COLD WEATHER PLACEMENT SHALL COMPLY WITH ACI 306.1

- HOT WEATHER PLACEMENT SHALL COMPLY WITH ACI 305.8

- CHAMFER ALL EXPOSED EDGES 3/4"

- THE MAXIMUM TEMPERATURE OF ALL CONCRETE AT DELIVERY TO THE SITE SHALL BE 85°F

- TOTAL DELIVERY TIME SHALL BE LESS THAN 75 MINUTES.

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SHEET NUMBER: A-3