

PROJECT DESCRIPTION

GREENSPOT  
EV CHARGING STATION INSTALLATION

PROJECT LOCATION:  
299 CHERRY HILL RD.  
PARSIPANNY, NJ  
07054

SCOPE OF WORK

INSTALL (3) DUAL PEDESTAL LEVEL 2 BYTC POWER CHARGERS.

SHEET INDEX

E001	ELECTRICAL COVER SHEET, GENERAL NOTES & SYMBOL LEGEND
E100	ELECTRICAL SITE LAYOUT
E200	ONE-LINE DIAGRAM & PANEL SCHEDULE
E300	INSTALLATION DETAILS SHEET 1
E301	INSTALLATION DETAILS SHEET 2
E302	INSTALLATION DETAILS SHEET 3
E304	INSTALLATION DETAILS SHEET 4

GENERAL NOTES

- THIS DOCUMENT DOES NOT CONTAIN ALL SPECIFICATIONS AND DETAILS NECESSARY FOR CONSTRUCTION. REFER TO INSTALLATION GUIDES AND OTHER DOCUMENTS PROVIDED BY MANUFACTURER FOR ADDITIONAL INFORMATION.
- ALL EXISTING CONDITIONS SHOWN ARE APPROXIMATE. EXISTING UTILITY LOCATIONS AND CROSSINGS ARE TO BE LOCATED IN THE FIELD. CONTRACTORS TO CONTACT #1 PRIOR TO BEGINNING ANY EXCAVATION WORK.
- ALL PAVEMENT, LANDSCAPING, UTILITIES, AND OWNER PROPERTY THAT IS DAMAGED OR AFFECTED BY CONSTRUCTION SHALL BE RETURNED TO EXISTING CONDITIONS AT THE CONTRACTOR'S EXPENSE.
- PROPOSED PAVEMENT STRIPING SHALL LINE UP WITH EXISTING STRIPING WHEREVER POSSIBLE. ADDITIONAL PAVEMENT STRIPING IS NOT NECESSARILY PARALLEL TO THE EXISTING CHARGING ISLAND.
- ACCESSIBLE EV STALLS WERE DESIGNED BASED ON EXISTING CONDITIONS AND WITHOUT BENEFIT OF SURVEY COSTS. ALL ADA AND LOCAL REQUIREMENTS INCLUDING, BUT NOT LIMITED TO SCOPE AND SPACING SHALL BE CONFIRMED BY THE CONTRACTOR AND MET AT THE TIME OF CONSTRUCTION.
- CONTRACTOR TO NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN ACCESSIBILITY PRIOR TO CONSTRUCTION.
- ANY NOTES ON DRAWING PAGES CONTAINED HEREIN SHALL BE CONSIDERED PART OF THESE NOTES.
- CONTRACTOR RESPONSIBILITIES INCLUDE CHARGING STATION MOUNTING, OVERHEAD CONDUIT INSTALLATION, AND WIRING.
- CONTRACTOR TO PAINT PROPOSED EV PARKING SPACES PER JURISDICTIONAL REQUIREMENTS.
- CONTRACTOR TO FIELD SOAKAWAY EXISTING CONCRETE SLAB TO ENSURE REINFORCEMENT IS NOT DAMAGED DURING EQUIPMENT OR CONDUIT ANCHORING. ENSURE 1" GAP MIN. BETWEEN REBAR AND ANCHORAGE.
- EXACT STATION PLACEMENT AND ROTATION ANGLE MAY VARY SLIGHTLY UPON INSTALLATION DEPENDING ON SITE CONDITIONS.
- JUNCTION BOXES LOCATIONS AND SIZES TO BE DETERMINED BY INSTALLER AND SHALL MEET NEC REQUIREMENTS.
- EXACT LOCATION OF DOLLAR (IF ANY USED) PLACEMENT TO BE DETERMINED IN FIELD TO MEET LOCAL JURISDICTION REQUIREMENTS AND TO PROVIDE THE BEST PROTECTION OF ELECTRICAL COMPONENTS FROM DAMAGE.

ELECTRICAL NOTES

- THIS DESIGN MAY BE USED FOR SECURING PERMITS, BID, PLANNING, THE COMPANY'S REVIEW OR SOME OTHER GOAL. THIS DESIGN DOES NOT GUARANTEE THESE APPROVALS, NOR ARE THESE APPROVALS A REQUIREMENT FOR SERVICES OR THE COMPLETION OF THIS WORK.
- THE ELECTRICAL CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, INSPECTION AND TAXES APPLICABLE TO THE ELECTRICAL WORK. PROVIDE ALL FIELD PRUMENTS AND MATERIALS TO THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY DAMAGED PORTIONS OF THE WORK RESULTING FROM TESTS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE TESTS.
- THIS DESIGN IS NOT A COMPLETE SET OF CONSTRUCTION DRAWING OR SHOP DRAWINGS. THIS DESIGN REPRESENTS DIAGRAMMATIC REPRESENTATION OF INTENDED SCOPE OF WORK.
- THE SYMBOLS AND ABBREVIATIONS LIST ON THIS SHEET IS A COMPREHENSIVE STANDARD GUIDE INTENDED FOR GENERAL USE ON ALL PROJECTS. THEREFORE, NOT ALL THE SYMBOLS AND ABBREVIATIONS CONTAINED HEREIN ARE NECESSARILY USED ON THIS PARTICULAR PROJECT AND SHOULD BE USED FOR CLARIFICATION ONLY.
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE NATIONAL ELECTRICAL CODE, IECC, LIFE SAFETY CODE, LOCAL BUILDING CODE, OSHA REGULATIONS, OCAI, STATE, FEDERAL, AND AUTHORITY HAVING JURISDICTION CODES APPLICABLE AT THE TIME OF THE CONSTRUCTION.
- GENERAL WORK PRACTICES FOR ELECTRICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NECA 1 STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION (ANSI)
- ALL MATERIALS PROVIDED BY THE CONTRACTOR SHALL BE NEW AND FREE OF DEFECTS. LISTED, LABELED FOR THE INTENDED PURPOSE BY UNDERWRITERS (UL) OR OTHER ORGANIZATION THAT IS ACCEPTABLE TO THE AHI.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SCHEDULING DELIVERY, RECEIVING, UNLOADING, STORING, SETTING IN PLACE, AND PROTECTING FROM DAMAGE, VANDALISM, THEFT OR WEATHER DURING CONSTRUCTION FOR ALL NEW EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR OR PROVIDED BY OTHER PARTIES TO THE ELECTRICAL CONTRACTOR FOR INSTALLATION BY THE ELECTRICAL CONTRACTOR.
- THESE DRAWINGS AND ACCOMPANYING SPECIFICATIONS ARE INTENDED TO DESCRIBE AND ILLUSTRATE SYSTEMS WHICH WILL NOT INTERFERE WITH THE STRUCTURE OF THE BUILDING AND WHICH WILL FIT INTO THE AVAILABLE SPACES.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT PHASE SEQUENCE OF ALL THREE-PHASE FEEDERS AND BRANCH CIRCUITS. VERIFY PROPER ROTATION OF ALL MOTORS.
- ELECTRICAL CONTRACTOR SHALL VERIFY PHASE LOAD BALANCING ON POWER PANELS UPON COMPLETION OF THE ELECTRICAL INSTALLATION.
- PROVIDE IDENTIFICATION ON ALL PANELBOARDS, SWITCHES, STARTERS, DIMMERS, SWITCHES IN DISTRIBUTION PANELBOARDS AND SWITCHBOARDS.
- CONDUIT RUNS WHEN SHOWN ARE DIAGRAMMATIC. FINAL LOCATION AND ROUTING SHALL BE ESTABLISHED BY THE CONTRACTOR BASED ON THE INSTALLATION CONDITIONS AND SHALL BE VERIFIED IN THE FIELD. ALL CONDUIT TYPES AND INSTALLATION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- CONDUIT RUNS SHALL BE PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND CEILINGS. CONDUIT SHALL BE SUPPORTED BY APPROVED MEANS. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A DRAG WIRE.
- ALL SUSPENDED CONDUITS SHALL BE RIGIDLY SUPPORTED FROM THE BUILDING STRUCTURE BY MEANS OF APPROVED CONDUIT FASTENERS, HANGERS, STRAPS, SUPPORTS, CLAMPS, ETC., FIRMLY ANCHORED IN PLACE AND SPACED AT INTERVALS NOT TO EXCEED 10'-0".
- PULL BOXES, JUNCTION BOXES, CONDUIT BODIES, AND EXPANSION JOINTS SHALL BE INSTALLED AS PER NFPA 70.
- PROVIDE CONDUIT EXPANSION FITTINGS WITH BONDING JUMPERS FOR ALL CONDUITS PASSING THROUGH EXPANSION JOINTS.
- PROVIDE SLEEVES FOR PENETRATIONS THROUGH BLOCK OR CONCRETE WALLS AND FLOORS.
- THE USE OF FLEXIBLE CONDUIT FROM LIGHTING FIXTURES TO JUNCTION BOX IS PERMITTED ONLY WHEN A SEPARATE GROUND WIRE IS INSTALLED WITH THE CONDUCTORS INSIDE FLEXIBLE CONDUIT. THE GROUND WIRE MUST BOND THE FIXTURE HOUSING TO THE JUNCTION BOX. MAXIMUM LENGTH SHALL BE 8'-0".
- FLEXIBLE CONDUIT INSTALLED OUT OF DOORS, IN ANY MECHANICAL EQUIPMENT ROOMS, OR NORMALLY WET AREAS SHALL BE LIQUID TIGHT FLEX WITH SUITABLE FITTINGS.
- PROVIDE CONDUIT WIRING, CIRCUITING AND REQUIRED CONNECTIONS TO ALL DEVICES, FIXTURES AND EQUIPMENT. CONNECT TO CIRCUITS AS INDICATED. THE DRAWINGS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD AND REFLECTED IN THE PANEL SCHEDULE DIRECTORY AND ON ALL CONDUIT DRAWINGS.
- CONTRACTOR SHALL VERIFY AND COORDINATE ALL MOUNTING HEIGHTS FOR ALL DEVICES MOUNTED IN CASEWORK OR IN ABOVE COUNTERS WITH EXISTING DEVICES.
- UNLESS SPECIFICALLY DIRECTED OTHERWISE, FURNISH AND INSTALL ALL MATERIALS AND EVERY ITEM CONTAINED HEREIN AND ASSOCIATED WITH THE WORK. THE DRAWINGS AND ANY OTHER INFORMATION DESCRIBED IN THE ACCOMPANYING SPECIFICATIONS SHALL BE THE BASIS FOR THE WORK. THE CONTRACTOR SHALL PROVIDE CONDUIT, WIRING AND CABLE TO ALL DEVICES, FIXTURES AND ETC. FOR A COMPLETE WORKING SYSTEM BASED ON THE CIRCUITS NOTED.
- PROVIDE INDEPENDENT SUPPORT FOR DISCONNECT SWITCHES, CONTROL STATIONS, BOXES, PANELS, ETC. WHERE NO WALLS OR OTHERS EXIST.
- EQUIPMENT SIZES AND LOCATIONS ARE TO BE DETERMINED BY THE CONTRACTOR. ACTUAL DIMENSIONS TO BE DETERMINED BY EQUIPMENT FURNISHER.
- PROVIDE BRANCH CIRCUIT WIRING TO ALL DEVICES REQUIRING ELECTRICAL CONNECTIONS, WHERE BRANCH CIRCUIT WIRING IS NOT SHOWN, CONNECT ITEMS TO CIRCUITS INDICATED. THE CONTRACTOR SHALL VERIFY EXACT ROUTING OF CONDUITS AND WIRING, UNLESS INDICATED OTHERWISE. ALL CONDUIT CIRCUITS SHALL BE MINIMUM #12 THHN-AWG COPPER.
- PROVIDE JUNCTION BOX WITH #12 TAIL SUCH AS SOLENOID VALVES, LIMIT SWITCHES, SWITCHES, ELECTRONIC ETC. FOR PROPER ELECTRICAL CONNECTION. PROVIDE ALL HARDWARE FOR MOUNTING OF JUNCTION BOX.
- ALL FIRST AND SECOND RACEWAY, SWITCHES, AND JUNCTION BOXES SHALL BE PAINTED RED.
- TIGHTEN SCREWS AND BOLTS FOR CONNECTORS AND TERMINALS ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE - TIGHTENING VALUES.
- EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT THAT REQUIRES ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS. COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTORS.

ABBREVIATIONS

A	AMPERE	ELEC	ELECTRICAL	LIS	LOAD INTERRUPTER SWITCH	SP	SPARE
AF	ABOVE FINISHED FLOOR	EQUIP	EQUIPMENT	LP	LIGHTING PANEL	SS	SURGE SUPPRESSION
AFG	ABOVE FINISHED GRADE	EVCS	ELECTRICAL VEHICLE CHARGING STATION	LTO	LIGHTING	SWBD	SWITCHBOARD
AFI	ARC FLASH INTERRUPTER	EXIST (E)	EXISTING	MBJ	MAIN BONDING JUMPER	SWGR	SWITCHGEAR
AFCI	ARC FLASH CIRCUIT INTERRUPTER	FA	FIRE ALARM	MCC	MOTOR CONTROL CENTER	SYM	SYMMETRICAL
ASYM	ASYMMETRICAL	FBO	FURNISHED BY OTHER	MCS	MOLDED CASE SWITCH	TEL	TELEPHONE
ATS	AUTOMATIC TRANSFER SWITCH	FDR	FEEDER	MDP	MAIN DISTRIBUTION PANEL	TYP	TYPICAL
AWG	AMERICAN WIRE GAUGE	FKT	FIXTURE	MIN	MINIMUM	UG	UNDERGROUND
BKR	BREAKER	FL	FLOOR	MSB	MAIN SWITCHBOARD	U.O.N.	UNLESS OTHERWISE NOTED
C	CONDUIT	FTV	FIELD TO VERIFY	MSG	MAIN SWITCHGEAR	V	VOLT OR VOLTAGE
CB	CIRCUIT BREAKER	G-OND	GROUND	MTS	MANUAL TRANSFER SWITCH	VA	VOLT-AMPERE
CCTV	CLOSED CIRCUIT TELEVISION	G.C.	GENERAL CONTRACTOR	NA	NON-AUTOMATIC	VFD	VARIABLE FREQUENCY DRIVE
CKT	CIRCUIT	GEN	GENERATOR	NC	NORMALLY CLOSED	W	WATTS
CL	CENTER LINE	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	NEC	NATIONAL ELECTRIC CODE	WHM	WATT HOUR METER
CLG	CEILING	GFI	GROUND FAULT INTERRUPTER	NO	NORMALLY OPEN	WM	WEATHERPROOF
CNL	CONTROL	HD	HIGH INTENSITY DISCHARGE	NTS	NOT TO SCALE	WW	WIREWAY
CPT	CONTROL POWER TRANSFORMER	HOA	HAND-OFF-AUTOMATIC	OPCD	OVER CURRENT PROTECTION DEVICE	XFMR	TRANSFORMER
CT	CURRENT TRANSFORMER	HP	HORSE POWER	P	POLE		
C	COPPER	IC	INTERRUPTING CAPACITY	PH	PHASE		
D	DEMOLISH	IO	INPUT / OUTPUT	PNE	PANEL		
DIA	DIAMETER	JB	JUNCTION BOX	PT	POTENTIAL TRANSFORMER		
DIS	DISCONNECT SWITCH	KV	KILOVOLT	PP	POWER PANEL		
DN	DOWN	KVA	KILOVOLT-AMPERE	PWR	POWER		
DP	DISTRIBUTION PANEL BOARD	KW	KILOWATT	RECEP	RECEPTACLE		
DWG	DRAWING	KWH	KILOWATT HOUR	REV	REVISION		
EL	ELECTRICAL CONTRACTOR	LCP	LOCAL CONTROL PANEL	SHD	SHIELDED CABLE		
E.C.	ELEVATION						

- WHEREVER THE INSTALLATION OF ELECTRICAL EQUIPMENT AS SHOWN ON THE DRAWINGS IS IMPRACTICAL DUE TO LOCAL INTERFERENCE OR UNFORESEEN FIELD CONDITIONS, THE CONTRACTOR SHALL INSTALL THE EQUIPMENT AT NEW LOCATIONS AS DIRECTED BY THE ENGINEER.
- DESIGN IS BASED ON ALL CONDUCTORS TO BE THHN COPPER AND NO MORE THAN 4 CURRENT CARRYING CONDUCTORS IN THE SAME RACEWAY OR DRAINAGE, UNLESS OTHERWISE NOTED.
- WHEN EQUIPMENT IS BEING REMOVED FROM THE FIELD, ALL WIRING ASSOCIATED WITH THE LOAD MUST BE REMOVED FROM THE JUNCTION BOX OR THE CIRCUIT BREAKER. DO NOT LEAVE UNUSED CONDUCTORS IN THE FIELD WITH ENDS TAPED WITH TAPE OR WIRE NUTS.
- SPARE WIRES INSTALLED SHALL BE NEATLY COILED, BOUND AND PLACED IN SPACE AVAILABLE, LEAVE AT A MINIMUM 1' OF SLACK AT EACH DISTRIBUTION.
- WHERE EXISTING CIRCUIT TO REMAIN ARE INTERRUPTED DUE TO NEW CONSTRUCTION, CONDUIT AND WIRE SHALL BE EXTENDED RE-ENERGIZED.
- PROVIDE DISCONNECT SWITCHES FOR ELECTRICAL HEATER, HVAC EQUIPMENT AND EXHAUST FANS WITHIN EYE SIGHT OF THE EQUIPMENT.
- PROVIDE SERVICE RECEPTACLE WITHIN 25 FEET OF EACH HVAC EQUIPMENT.
- ELECTRICAL CONTRACTOR TO VERIFY ACTUAL INSTALLED EQUIPMENT ELECTRICAL NAME PLATE DATA BEFORE ENERGIZING THE CIRCUIT. CONFIRM ELECTRICAL DESIGN VALUES AND ACTUAL EQUIPMENT BEING INSTALLED ARE IN COMPLIANCE WITH ELECTRICAL CODE AND MANUFACTURER INSTALLATION REQUIREMENTS.
- DISCONNECT SWITCHES SHALL BE HEAVY-DUTY, QUICKMADE, QUICK-BREAK TYPE, NEMA 1 ENCLOSURE FOR INDOR LOCATIONS (NEMA 3R FOR OUTDOOR LOCATIONS). SWITCHES SHALL BE AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, OR SIEMENS (I.E.). PROVIDE FUSES AS MANUFACTURED BY BUSHBAM, GOLD-SHAWMUT, OR LITTLE FUSE. ALL CONDUCTOR TERMINALS TO BE U.L. LISTED FOR A MAXIMUM OF 75°C. SWITCHES USED AS SERVICE ENTRANCE EQUIPMENT TO BE U.L. LISTED AS "SER" RATED EQUIPMENT.
- SPARE BOARDS SHALL BE MANUFACTURED BY SQUARE-E, EATON, GENERAL ELECTRIC, OR SIEMENS, MEETING UL, STANDARDS 50 AND 67, WITH U.L. LABEL. PANELS USED AS SERVICE ENTRANCE EQUIPMENT TO BE U.L. LISTED AS "SER" RATED EQUIPMENT.
- ALL SWITCHBOARDS AND PANELBOARDS SHALL BE MARKED WITH IDENTIFYING NAMEPLATES TO INDICATE THE DESIGNATIONS USED ON THESE DRAWINGS. PROVIDE NEW PANELBOARD SCHEDULES, CORRECTLY FILLED OUT FOR EVERY PANELBOARD.
- ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS TO ACCOMMODATE CONDUCTORS SHOWN.
- BREAKERS THERMAL MAGNETIC TYPE, QUICK-MAKE, QUICK-BREAK, PLUG-IN TYPE FOR LOAD CENTERS AND BOX IN TYPE FOR PANEL BOARDS. BREAKERS SHALL BE USED AS SWITCHES FOR 120V LIGHTING CIRCUITS SHALL BE APPROVED FOR THAT USE AND MARKED "SMO". ALL BREAKERS FOR HVAC AND REFRIGERATION EQUIPMENT SHALL BE "HACR" RATED BREAKERS.
- GROUNDING SYSTEM: PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUIT, SUPPORTS, CABINETS, PANEL BOARDS AND SYSTEM NEUTRAL CONDUCTORS. MAINTAIN CONTINUITY OF EQUIPMENT GROUNDING THROUGHOUT THE SYSTEM. GROUND CLAMPS SHALL BE APPROVED TYPE, SPECIFICALLY DESIGNED FOR GROUNDING, WHERE GROUNDING CONDUCTORS ARE ENCLOSED IN CONDUIT. GROUND CLAMP SHALL BE OF A TYPE WHICH GROUNDS BOTH CONDUCTOR AND CONDUIT. ALL CIRCUITS IN FLEXIBLE METAL OR PLASTIC CONDUIT SHALL INCLUDE A GROUND WIRE SIZED AND INSTALLED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
- PROVIDE AND INSULATED GREEN GROUNDING WIRE IN THE SAME CONDUIT AS THE BE CIRCUIT OR FEEDER WIRING AND FOR ALL (3) PHASES AND/OR SINGLE PHASE WIRING.
- ALL WORK SHALL BE PERMANENTLY AND EFFECTUALLY GROUND. WETHE, OR NOT SUCH CONNECTIONS ARE SPECIFICALLY SHOWN OR SPECIFIED, GROUNDING AT ANY POINT SHALL NOT EXCEED 25 OHMS.
- ALL CONDUITS SHALL BE EMT UNLESS OTHERWISE NOTED.
- CONDUIT SHALL BE SIZED TO COMPLY WITH NEC TABLE 310.12 AND SIZE OF CONDUCTORS INSTALLED PER NEC. PROVIDE SCHEDULE 40 CONDUIT BEING BELOW GRADE, MINIMUM 3/4". PROVIDE ELECTRICAL METAL TUBING MEETING F8 W/C283, CLASSED IN METAL CONDUIT IN LENGTHS NOT SHOWN. PROVIDE EMT CONNECTORS AND COUPLING SHALL MEET UL LISTED. NEW TYPE "AC" TYPE CABLES MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- ELECTRICAL CONTRACTOR SHALL INSTALL ALL 125' OF CONDUIT SHOWN ON PLANS.
- ALL CONDUIT AND RACEWAY SYSTEMS TO BE INSTALLED WITH SEPARATE GROUND CONDUCTOR. CONDUIT SYSTEM IS TO BE USED AS THE SOLE GROUNDING MEANS.
- CONDUCTORS INSTALLED SHALL BE ANNEALED 98% PURE COPPER WITH COLOR CODING, B AND S GAGE, TO ANCHOR WALLS TO BE SOLID, 48 AND LARGER TO BE STRANDED. MINIMUM #12 UNLESS OTHERWISE NOTED. INDUCTION CABLES MUST BE INSTALLED IN ACCORDANCE WITH NEC AND CANNOT BE SUPPORTED FROM CEILING SUPPORT WIRES. THEN MAY NOT BE USED INDRIVE, OR IN ENTRANCE, OUTSIDE, OR IN WET LOCATIONS. ALL INSULATION TO BE RATED FOR 600 V AND TYPES AS FOLLOWS:  
RHW-2 THHN OR THHN  
THHN OR THHN  
SER-RHW OR USE-RHW  
THHN OR XHHN  
XHHW
- ALL CONDUIT AND RACEWAY SYSTEMS TO BE INSTALLED WITH SEPARATE GROUND CONDUCTOR. CONDUIT SYSTEM IS NOT TO BE USED AS THE SOLE GROUNDING MEANS.
- ALL WIRING TO BE COLOR-CODED AS FOLLOWS:  
120/208 VOLT SYSTEM  
NEUTRAL: WHITE  
PHASE A OR L1: BLACK  
PHASE B OR L2: RED  
PHASE C OR L3: BLUE  
GROUND: GREEN
- WIRE CONNECTORS SHALL BE EQUAL TO "SCOTCH LOCK" FOR #6 AWG WIRE AND SMALLER AND EQUAL TO T & B "LOCK TIGHT" FOR #6 AWG AND LARGER.
- LIGHT FIXTURES & LAMPS ARE FURNISHED BY CONTRACTOR EXCEPT AS NOTED ON THE LIGHT FIXTURE SCHEDULE. THE INSTALLATION SHALL BE BY THE ELECTRICAL CONTRACTOR ACCORDING TO LOCAL CODE AUTHORITY.
- EMERGENCY LIGHTING SHALL HAVE A MINIMUM OF 90 MIN. BATTERY BACK-UP, OR AS REQUIRED BY LOCAL CODE AUTHORITY. PROVIDE LOCK-ON CIRCUIT BREAKERS FOR CIRCUITS SERVING EXIT SIGN FIXTURES AND EMERGENCY BATTERY PACK FIXTURES.
- ALL EMERGENCY LIGHTS SHALL BE CONNECTED AHEAD OF ANY LOCAL SWITCH.
- ALL EXIT SIGNS SHOWN ARE PER ARCHITECTURAL LAYOUT AND SHALL BE APPROVED BY FIRE DEPARTMENT AND BUILDING OFFICIAL.
- LAYOUT BRANCH CIRCUIT WIRING AND ARRANGEMENT OF HOME RUNS FOR MAXIMUM ECONOMY AND EFFICIENCY. INCREASE WIRE SIZE IF 100 FEET OF LENGTH IS EXCEEDED.
- CONCEAL WIRING SYSTEM ABOVE SUSPENDED CEILINGS OR IN WALL OR FLOOR CONSTRUCTION WHERE POSSIBLE. INSTALL ALL CONDUITS PARALLEL TO BUILDING LINES, AND TO CLEAR ALL OPENING, DEPRESSIONS, PIPES, DUCTS, STRUCTURE, ETC.
- INSTALL CONDUIT CONTINUOUS BETWEEN BOXES AND CABINETS WITH NO MORE THAN FOUR (4) 90 DEGREE BENDS. SECURELY FASTEN IN PLACE WITH STRAPS, HANGERS AND STEEL SUPPORTS AS REQUIRED. DO NOT SUPPORT CONDUIT FROM SUSPENDED CEILING GRID OR SUSPENSION WIRES. REAM CONDUIT ENDS BEFORE INSTALLATION AND THOROUGHLY CLEAN BEFORE INSTALLATION. OPENINGS SHALL BE PLUGGED OR COVERED TO KEEP CONDUIT CLEAN. TERMINALS ON SWITCHES AND OUTLET SHALL NOT BE USED TO "FEED THRU" TO THE NEXT SWITCH OR OUTLET.
- PROVIDE SINGLE GANG PLASTER RING AND A 18" DIAMETER NYLON PULL ROPE TO ACCESSIBLE CEILING SPACE FROM ALL NEW TELEPHONE AND/OR DATA OUTLETS.
- FOR ALL WIRING DEVICES, VERIFY FINISH COLOR WITH ARCHITECT.

SYMBOL LEGEND

ELECTRICAL EQUIPMENT

TYPICAL FOR ALL RECEPTACLES, OUTLETS, JUNCTION BOXES AND EQUIPMENT: NUMBER DENOTES PANEL CIRCUIT NUMBER.

AFCI- ARC FLASH CIRCUIT INTERRUPTER  
GFI- GROUND FAULT INTERRUPTER  
SS- SURGE SUPPRESSION TYPE  
IG- ISOLATED GROUND TYPE  
WP- WEATHERPROOF

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DISTRIBUTION EQUIPMENT

FOR ALL DISTRIBUTION EQUIPMENT:  
GFP - GROUND FAULT PROTECTION  
ST - SHUNT TRIP  
LSIG - LONG TIME, SHORT TIME INSTANTANEOUS AND GROUND FAULT PROTECTION FUNCTIONS  
100% - 100% RATED EQUIPMENT:

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PROFESSIONAL ENGINEERING

  
ENGINEERING | CONSULTING | ESTIMATING  
201-920-2899 info@AmperEngineering.com

SEAL & SIGNATURE:


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0	04/27/2022	ISSUED FOR PERMIT
REV	DATE	DESCRIPTION

CLIENT:

  
EV CHARGE-TEC

ADDRESS:  
185 INDUSTRIAL PKWY,  
BRANCHBURG, NJ 08876

PHONE:  
908-801-6890

PROJECT:

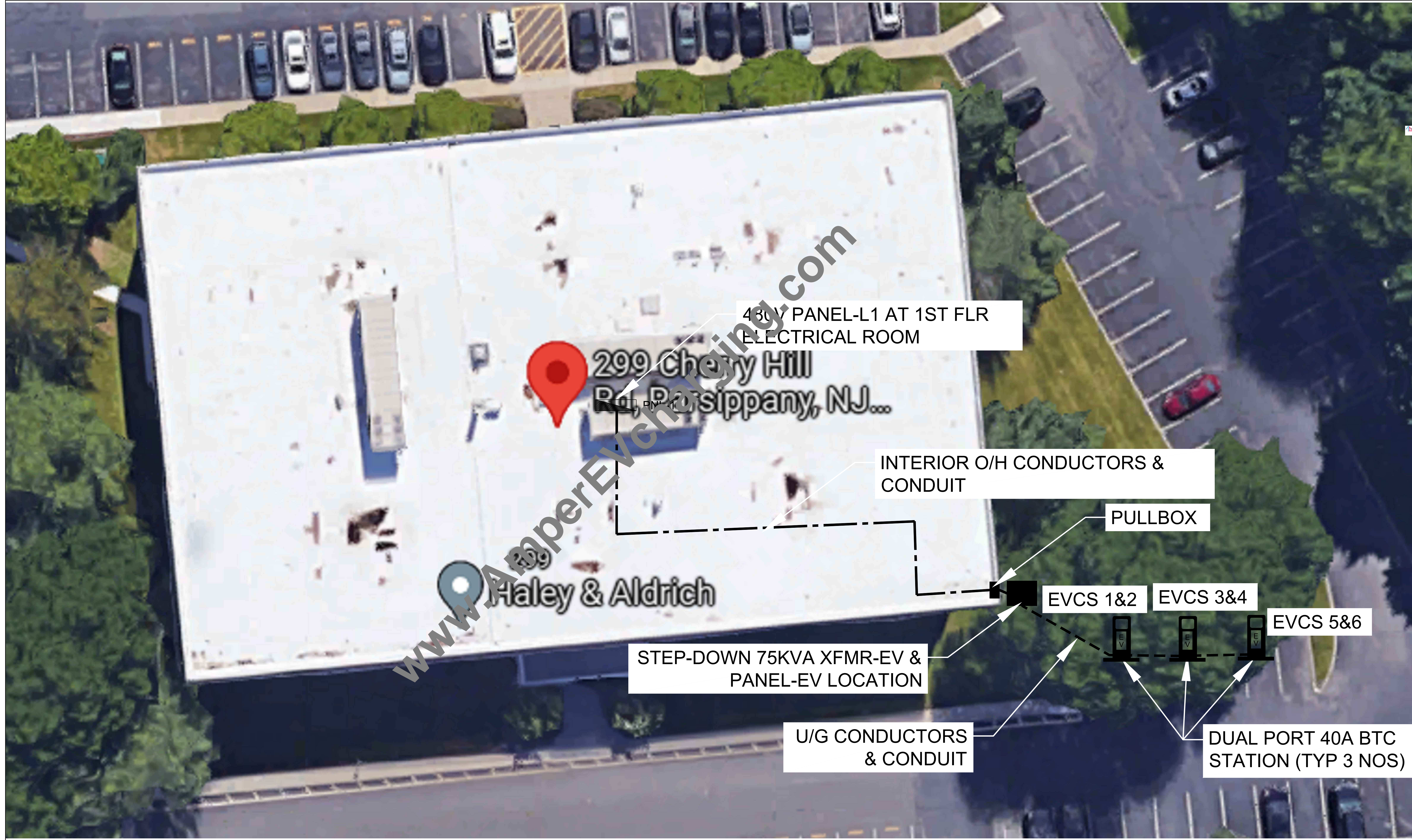
GREENSPOT  
EVCS  
INSTALLATION

ADDRESS:  
299 CHERRY HILL RD.  
PARSIPPANY, NJ  
07054


PROJECT NUMBER: AE# 1522-22	
SHEET SIZE: 24X36	DRAWN BY: IB
DESIGNED BY: AC	CHECKED BY: DEE


DRAWING TITLE:  
ELECTRICAL SITE LAYOUT

DRAWING NO:  
**E100**



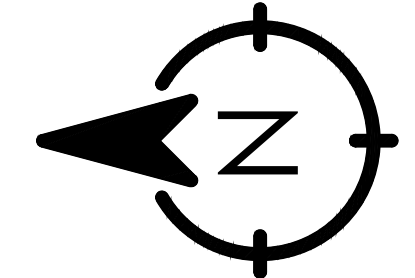
- — — — — INTERIOR O/H CONDUIT & CONDUCTORS
- - - - - UNDERGROUND CONDUIT & CONDUCTORS

  
DIG ALERT

  
Know what's below.  
CALL before you dig.

CALL AT LEAST TWO WORKING  
DAYS BEFORE YOU DIG

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING LOCATIONS. CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME





CONDUIT FILL CALCULATOR					Select wire type		THHN	
Wire Size	Enter number of conductors for each size	Total Area sq-inch	Conduit Trade Size	Trough and Conduit ID Sizes	Total area in square inches	20% Fill of trough 40% Fill of Conduit	Current total Area sq. inches	Current fill percent
18			TROUGH	4.000	16.000	3.200	0.2239	1.40%
16				6.000	36.000	7.200	0.2239	0.62%
14		0.0000		8.000	64.000	12.800	0.2239	0.35%
12		0.0000	PVC	Select type of conduit				
10	1	0.0211	0.50	0.00.582	0.248	0.099	0.2239	
8		0.0000	0.75	0.00.722	0.409	0.164	0.2239	
6	4	0.2028	1	0.00.936	0.688	0.275	0.2239	32.54%
4		0.0000	1.25	0.01.255	1.237	0.495	0.2239	18.10%
3		0.0000	1.50	0.01.476	1.711	0.684	0.2239	13.09%
2		0.0000	2	0.01.913	2.874	1.150	0.2239	7.79%
1		0.0000	3	0.02.864	6.442	2.577	0.2239	3.48%
1/0		0.0000	3.5	0.03.326	8.688	3.475	0.2239	2.58%
2/0		0.0000	4.0	0.03.786	11.258	4.503	0.2239	1.99%
3/0		0.0000						
4/0		0.0000						
250		0.0000						
300		0.0000						
350		0.0000						

NOTE:

- 1) All dimensions are from manufacturers specifications.
- 2) Dimensions are based on 2017 NEC.
- 3) ID area based on NEC 2017 Table 4 Chapter 9.

ONLY @ 10' FROM PANEL-EV)

ELECTRICAL KEY NOTES:

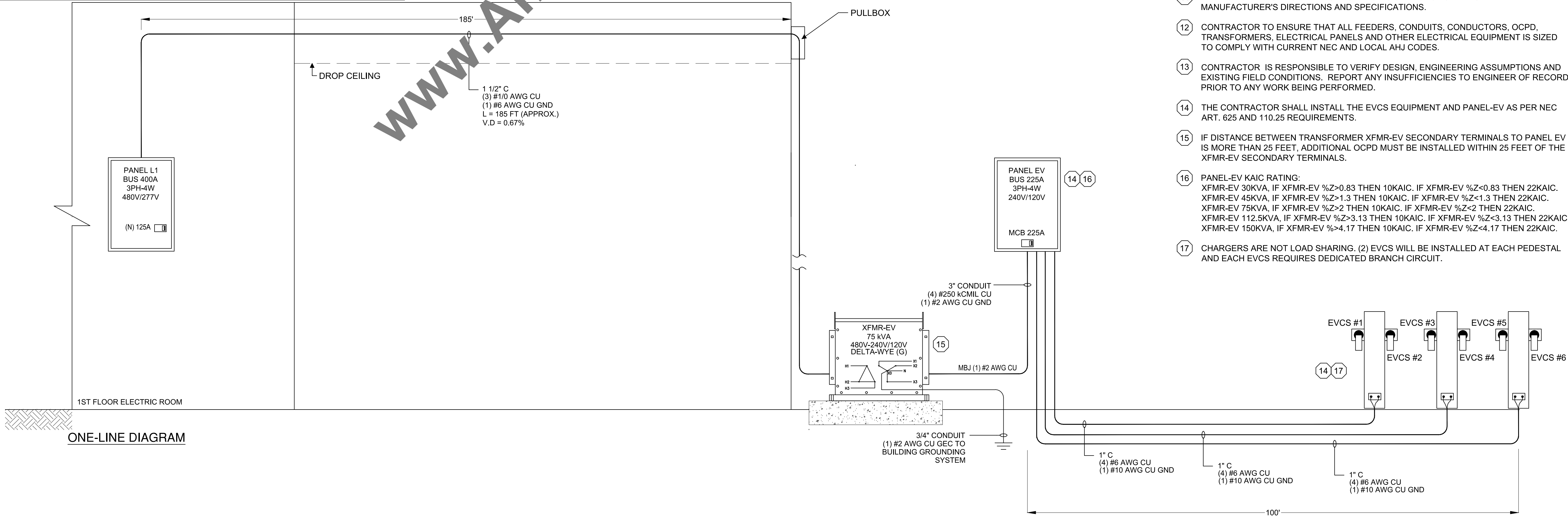
- 1 ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ON-SITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) STANDARDS BEING ENFORCED BY ALL APPLICABLE JURISDICTIONAL REQUIREMENTS AT THE TIME OF CONSTRUCTION.
- 2 UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRECONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATIONS.
- 3 CONDUIT PATHS ARE REPRESENTATIVE ONLY. EXACT CONDUIT PLACEMENT TO BE DETERMINED ON SITE BASED ON FIELD CONDITIONS.
- 4 A NATIONALLY RECOGNIZED TESTING LABORATORY SHALL LIST ALL EQUIPMENT IN COMPLIANCE WITH NEC ARTICLE 110.3
- 5 ALL EXTERIOR EQUIPMENT SHALL BE RAIN TIGHT AND APPROVED FOR USE IN WET CONDITIONS.
- 6 ALL CONDUCTORS TO BE THHN COPPER
- 7 ALL CONDUCTORS AND CABLES SHALL BE PROVIDED WITH STRAIN RELIEF UPON ENTRY INTO ENCLOSURES
- 8 EACH UNGROUNDED CONDUCTOR SHALL BE IDENTIFIED BY PHASE AND SYSTEM PER NEC 210.5
- 9 ALL METALLIC COMPONENTS SHALL BE GROUNDED VIA ELECTRIC GROUNDING CONDUCTORS.
- 10 ALL UNDERGROUND CONDUIT TO BE UL RATED, MINIMUM 24" DEEP.
- 11 WIRING FOR ELECTRICAL VEHICLE CHARGING STATIONS TO BE INSTALLED PER MANUFACTURER'S DIRECTIONS AND SPECIFICATIONS.
- 12 CONTRACTOR TO ENSURE THAT ALL FEEDERS, CONDUITS, CONDUCTORS, OCPD, TRANSFORMERS, ELECTRICAL PANELS AND OTHER ELECTRICAL EQUIPMENT IS SIZED TO COMPLY WITH CURRENT NEC AND LOCAL AHJ CODES.
- 13 CONTRACTOR IS RESPONSIBLE TO VERIFY DESIGN, ENGINEERING ASSUMPTIONS AND EXISTING FIELD CONDITIONS. REPORT ANY INSUFFICIENCIES TO ENGINEER OF RECORD PRIOR TO ANY WORK BEING PERFORMED.
- 14 THE CONTRACTOR SHALL INSTALL THE EVCS EQUIPMENT AND PANEL-EV AS PER NEC ART. 625 AND 110.25 REQUIREMENTS.
- 15 IF DISTANCE BETWEEN TRANSFORMER XFMR-EV SECONDARY TERMINALS TO PANEL EV IS MORE THAN 25 FEET, ADDITIONAL OCPD MUST BE INSTALLED WITHIN 25 FEET OF THE XFMR-EV SECONDARY TERMINALS.
- 16 PANEL-EV KAIC RATING:  
XFMR-EV 30KVA, IF XFMR-EV %Z>0.83 THEN 10KAIC. IF XFMR-EV %Z<0.83 THEN 22KAIC.  
XFMR-EV 45KVA, IF XFMR-EV %Z>1.3 THEN 10KAIC. IF XFMR-EV %Z<1.3 THEN 22KAIC.  
XFMR-EV 75KVA, IF XFMR-EV %Z>2 THEN 10KAIC. IF XFMR-EV %Z<2 THEN 22KAIC.  
XFMR-EV 112.5KVA, IF XFMR-EV %Z>3.13 THEN 10KAIC. IF XFMR-EV %Z<3.13 THEN 22KAIC.  
XFMR-EV 150KVA, IF XFMR-EV %Z>4.17 THEN 10KAIC. IF XFMR-EV %Z<4.17 THEN 22KAIC.
- 17 CHARGERS ARE NOT LOAD SHARING. (2) EVCS WILL BE INSTALLED AT EACH PEDESTAL AND EACH EVCS REQUIRES DEDICATED BRANCH CIRCUIT.

PULLBOX

PANEL EV  
BUS 225A  
3PH-4W  
240V/120V

MCB 225A

14 16



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OR "IFC UPDATED".

0	04/27/2022	ISSUED FOR PERMIT
REV.	DATE	DESCRIPTION

CLIENT:



EV CHARGETEC

ADDRESS:

185 INDUSTRIAL PKWY,  
BRANCHBURG, NJ 08876

PHONE:

908-801-6890

PROJECT:  
**GREENSPOT  
EVCS  
INSTALLATION**

ADDRESS:  
**299 CHERRY HILL RD.  
PARSIPANNY, NJ  
07054**

PROJECT NUMBER: AE# 1522-22	
SHEET SIZE: 24X36	DRAWN BY: IB
DESIGNED BY: AC	CHECKED BY: DEE

DRAWING TITLE:  
ONE-LINE DIAGRAM &  
CALCULATIONS

DRAWING NO:

**E200**



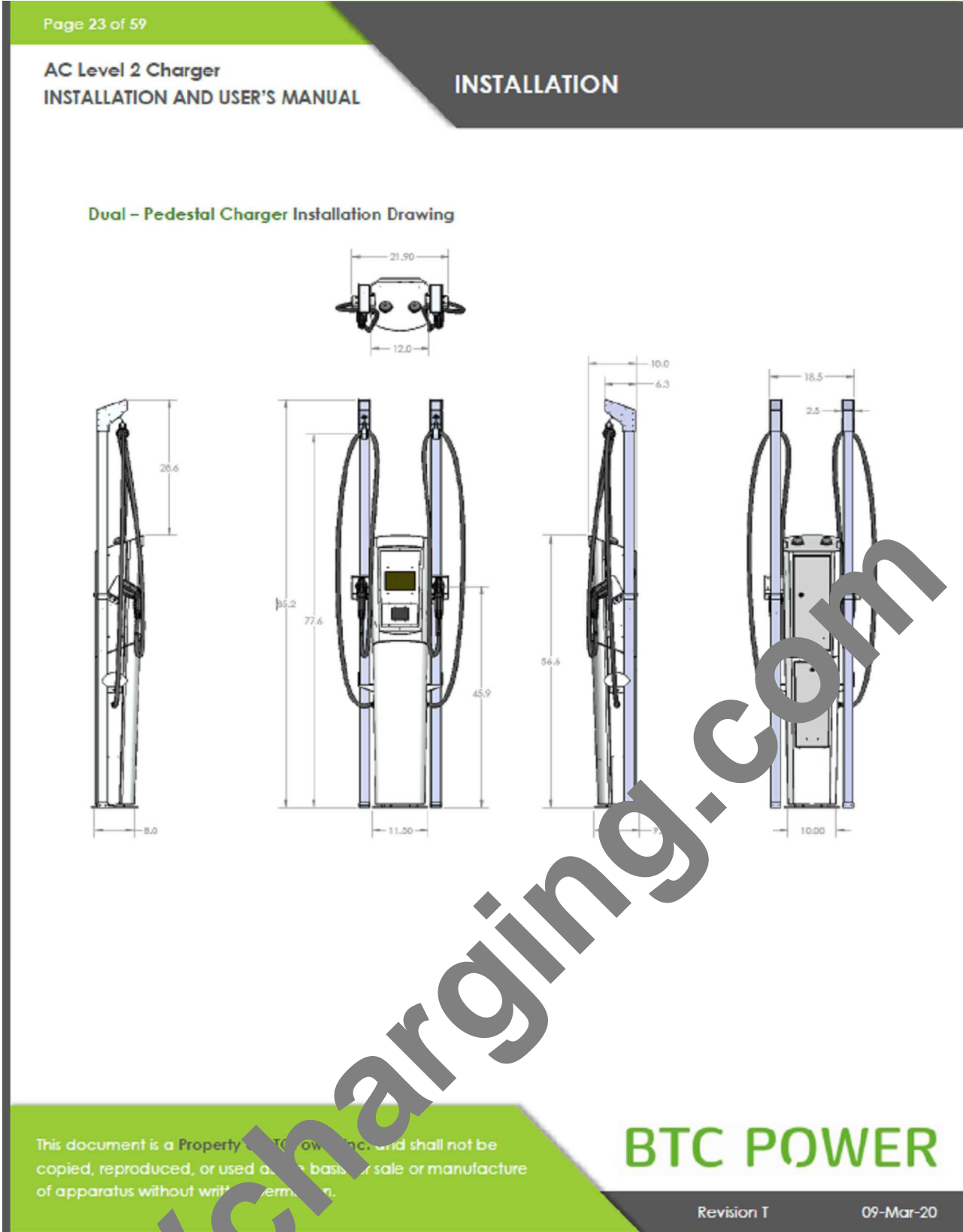


## L2 Dual Port

BTC Power's AC-Level 2 product family is certified according to the California Type Evaluation Program (CTEP, Cert-#: 5890-21). It is the only EVSE that supports authentication via RFID or Credit Card, mobile payment methods like QR-Code or app. Our systems also allow for Multi-tiered energy pricing (time-of-use tariffs) and multi-tiered parking pricing for currents up to 70A, which allows ultimate freedom in choosing the right pricing strategy for each use case. Our AC Level 2 EVSE come fully calibrated, tested and sealed, ready for installation for commercial purposes (certain RSA activities may need to be performed).

### Features

- Dual Ports rate for 30 / 40 Amps (each)
- SAE J1772 Charging Protocol
- NEMA 3R Housing
- 7" Color LCD Screen
- RFID, Credit Card



## EVCS OVERVIEW

SCALE  
N.T.S.

1

## PEDESTAL OVERVIEW

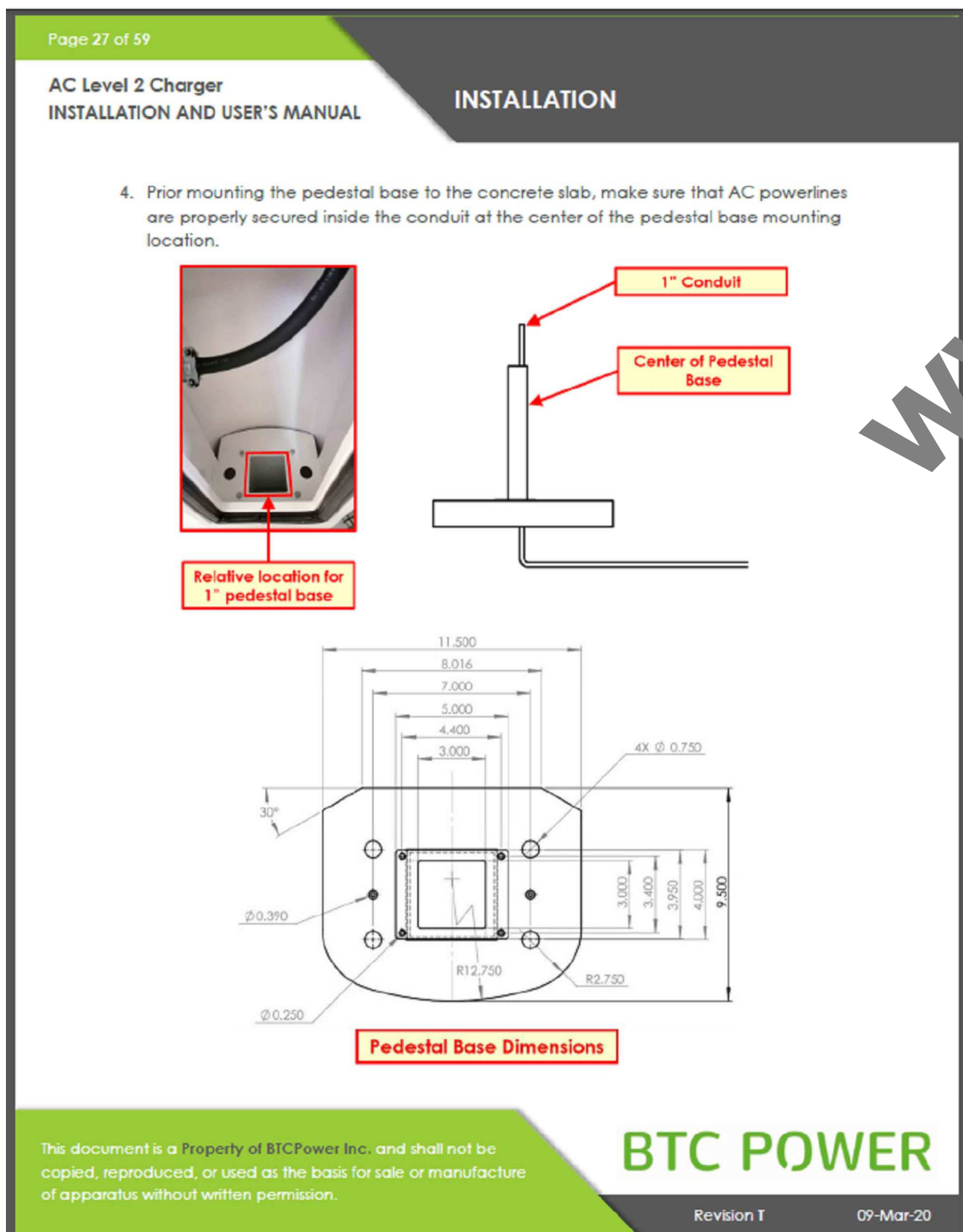
SCALE  
N.T.S.

3

## PRODUCT SPECIFICATION

SCALE  
N.T.S.

5



## PEDESTAL BASE PLATE DETAIL

SCALE  
6"=1'-0"

2

## (NOT USED)

SCALE  
N.T.S.

4

## (NOT USED)

SCALE  
N.T.S.

6

PROFESSIONAL ENGINEERING

**AMPER**  
ENGINEERING | CONSULTING | ESTIMATING  
201-920-2899 | info@AmperEngineering.com

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0	04/27/2022	ISSUED FOR PERMIT
REV	DATE	DESCRIPTION

CLIENT:

**EV CHARGE TECH**  
ADDRESS:  
185 INDUSTRIAL PKWY,  
BRANCHBURG, NJ 08876  
PHONE:  
908-801-6890

PROJECT:

**GREENSPOT  
EVCS  
INSTALLATION**  
ADDRESS:  
299 CHERRY HILL RD.  
PARSIPANNY, NJ  
07054

PROJECT NUMBER:  
AE# 1522-22

SHEET SIZE:  
24X36

DRAWN BY:  
IB

DESIGNED BY:  
AC

CHECKED BY:  
DEE

DRAWING TITLE:  
**INSTALLATION DETAILS  
SHEET 3**

DRAWING NO:  
**E302**