

GENERAL NOTES:

- THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY ON ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CITY OF RIPON.
- ELEVATIONS AND COORDINATES ARE REFERRED TO THE CITY OF RIPON GPS STATION 6007 AS SHOWN IN THE CITY WIDE R.O.S. AS RECORDED WITH SAN JOAQUIN COUNTY SURVEYORS OFFICE IN BOOK 35 PAGE 196
- THE CONTRACTOR SHALL NOTIFY MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER (800-642-2444).
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING FACILITIES WITHIN THE CONSTRUCTION AREA.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE CITY ENGINEER.
- THE CONTRACTOR SHALL EXPOSE EXISTING STORM DRAINS, SANITARY SEWERS, AND WATER LINES WHERE CONNECTION IS TO BE MADE SO THAT HE CAN VERIFY EXISTING FLOWLINES AND LOCATIONS BEFORE THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL CHECK WITH THE UTILITY COMPANIES AND VERIFY ALL UTILITY LOCATIONS. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICES TO THE DEVELOPMENT.
- THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMAN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT ISSUE OF "MANUAL OF TRAFFIC CONTROLS WARNING SIGNS, LIGHTS AND DEVICES" FOR USE IN PERFORMANCE OF WORK UPON HIGHWAYS PUBLISHED BY THE STATE OF CALIFORNIA BUSINESS AND TRANSPORTATION AGENCY.
- CONTRACTOR SHALL REMOVE ALL EXISTING BERMS, STRUCTURES AND BARRICADES, PAVING AND/OR OIL SCREENINGS WITHIN SPECIFIC AREAS TO BE IMPROVED.
- THE OFFICE OF THE CITY ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF ANY WORK.
- ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF RIPON, DEPARTMENT OF PUBLIC WORKS STANDARD PLANS AND SPECIFICATIONS, AND THE LATEST EDITION OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS.
- GAS AND ELECTRICAL UTILITIES, TELEPHONE AND CABLE TV UNDERGROUND WORK SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF THE CURB, GUTTER, SIDEWALK AND PAVING.
- IF REQUIRED, THE CONTRACTOR SHALL ADEQUATELY Dewater THE TRENCH AREA IN ADVANCE OF TRENCHING FOR UTILITIES, ETC. LOCATION OF WELLS FOR USE IN DewaterING MUST BE APPROVED BY THE ENGINEER.
- THE CITY OF RIPON OR ASSOCIATED UTILITY COMPANY AND RESIDENCES TO BE AFFECTED SHALL BE NOTIFIED IMMEDIATELY UPON ANY UTILITY SERVICE DISRUPTION. A 24-HOUR NOTICE SHALL BE GIVEN FOR ANY PLANNED DISRUPTION.
- DUST SHALL BE CONTROLLED PER SECTION 10 OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS AND THE CITY OF RIPON'S SPECIFICATIONS.
- AN ENCROACHMENT PERMIT SHALL BE OBTAINED FROM THE CITY OF RIPON, DEPARTMENT OF PUBLIC WORKS, OR ANY OTHER APPLICABLE AGENCIES PRIOR TO COMMENCEMENT OF WORK WITHIN EXISTING CITY RIGHT-OF-WAY.
- THE CONTRACTOR SHALL SECURE A TRENCH PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO EXCAVATION OF ANY TRENCH OVER FIVE FEET IN DEPTH.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE REMOVAL OR RELOCATION OF ANY DESIGNATED UTILITIES WITH RESPECTIVE UTILITY COMPANIES.
- ALL WATER LINES SHALL BE TESTED AND DISINFECTED IN COMPLIANCE WITH THE REQUIREMENTS OF THE CITY OF RIPON'S STANDARD PLANS AND SPECIFICATIONS, PRIOR TO FINAL ACCEPTANCE.
- THE CONTRACTOR SHALL PERFORM TESTING OF SEWERS ACCORDING TO THE CITY OF RIPON STANDARD SPECIFICATIONS.
- SECTION 1540 (a) (1) OF THE CONSTRUCTION SAFETY ORDERS (TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540), ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT OF 1973, AS AMENDED, WHICH STATES

"PRIOR TO OPENING AN EXCAVATION EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATION, I.E., SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND, IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING AND WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION".

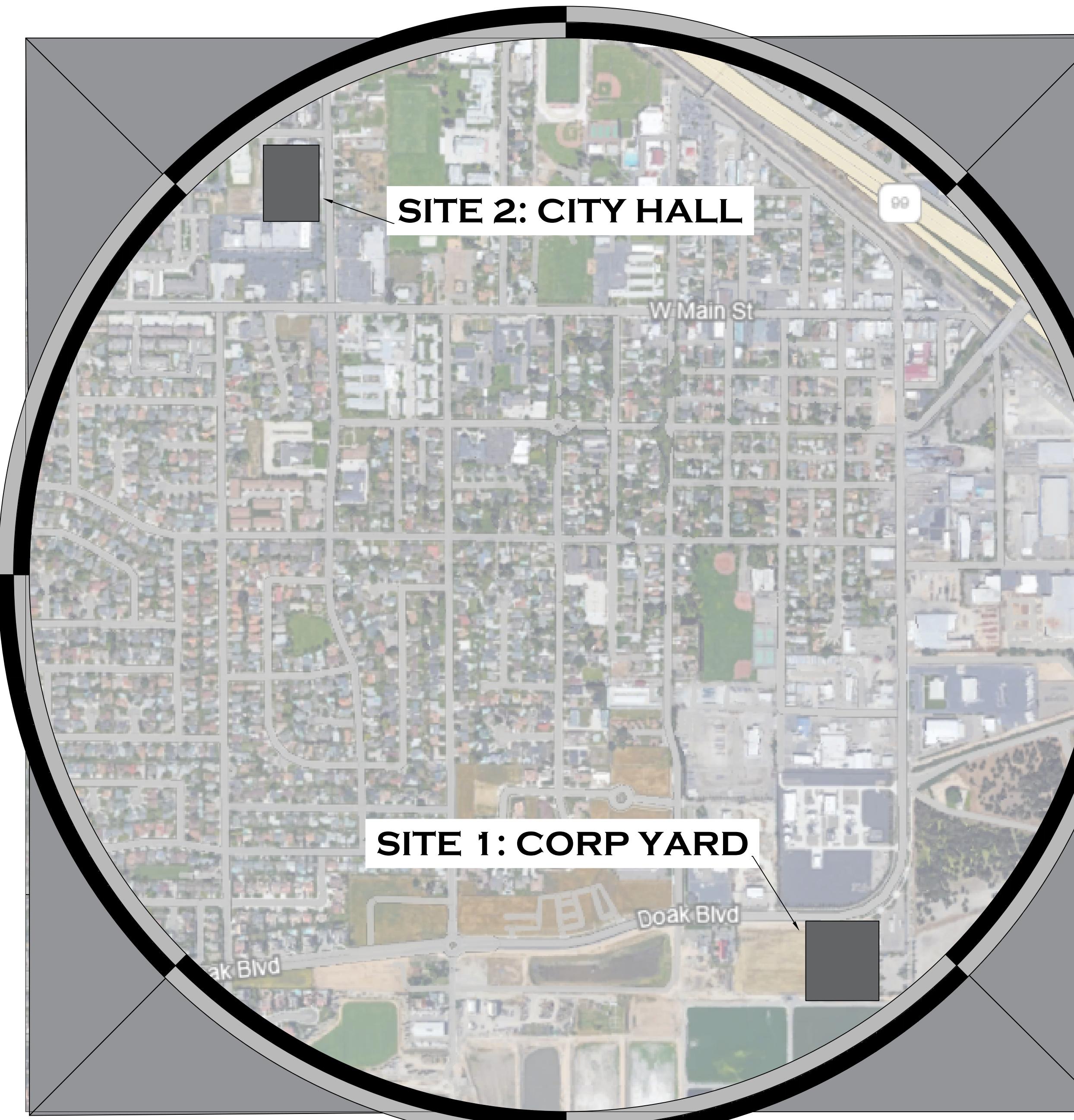
- ADJUST ALL EXISTING FACILITIES TO PROPOSED ELEVATIONS.
- TESTING: a) ALL TESTING SHALL BE DONE BY AN INDEPENDENT LABORATORY APPROVED BY THE CITY ENGINEER b) TEST FOR "R" VALUES ARE REQUIRED PRIOR TO THE INSTALLATION OF BASE ROCK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MATCHING ALL EXISTING ELEVATIONS OF CURB, GUTTER, & SIDEWALK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OF THE ADJUSTMENTS TO ANY AND ALL MANHOLE RIMS DISTURBED.
- THE CONTRACTOR SHALL ALSO REMOVE, RELOCATE OR REPLACE ALL VEGETATION.
- INVERTS ON CATCH BASIN RUNS AT MANHOLES MAY BE CHANGED TO ELIMINATE A CONFLICT WITH EXISTING UTILITIES.

CITY OF RIPON

EV CHARGING STATION PROJECT

SHEET INDEX:

C1 COVER SHEET
 E1 ELECTRICAL SITE PLAN
 E2 RIPON CORP YARD
 E3 CITY HALL ELECTRICAL PLAN
 E4 EV CHARGER FOOTING REQUIREMENTS



CITY OF RIPON VICINITY MAP

0 1000' 2000'

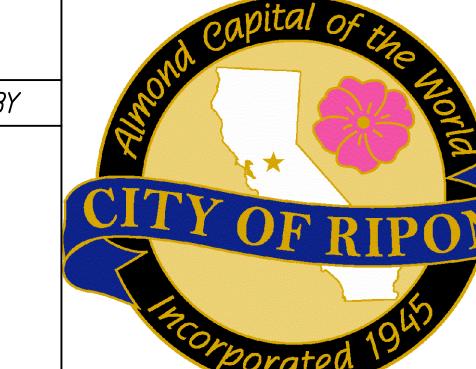


CALL USA TOLL FREE
 1-800-642-2444
 BEFORE PLANTING TREES, TRENCHING, DIGGING, FENCE POST HOLES, BLASTING, GRADING, EXCAVATING, DRILLING, PIPE PUSHING, ETC., CALL UNDERGROUND SERVICE ALERT FOR UNDERGROUND CLEARANCE. USA WILL PROVIDE INFORMATION ABOUT, OR LOCATE ANY AND MARK UNDERGROUND FACILITIES FOR YOU.

APPROVED BY:
 Kevin Wm.
 CITY ENGINEER

REVISIONS

NO.	DESCRIPTION	DATE	BY



CITY OF RIPON
 259 N. WILMA AVE
 RIPON, CA 95366
 TELEPHONE: (209) 599-2108

JOB #: February 2025
 DATE: NTS
 SCALE:
 DRAWN BY: CG
 CHECKED BY: KW
 FILE #:

CITY OF RIPON
 EV CHARGING STATION PROJECT

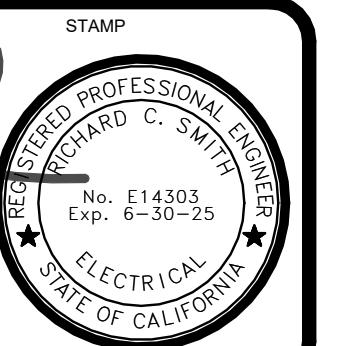
COVER SHEET

SHEET
 C1
 OF
 5

REVISIONS	BY

ELECTRICAL SITE PLAN

PROJECT: CITY OF RIPON
EV CHARGER INSTALLATION FOR:
COPYARD DOCK
CITY HALL, WILMA AVE



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As indicated
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2017xxx
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E1

ELECTRICAL SPECIFICATIONS

GENERAL NOTES:

- ELECTRICAL INSTALLATION SHALL COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, INCLUDING THE FOLLOWING:
TITLE 24, CCR, PART 2, 2010 O&G
TITLE 24, CCR, PART 3, 2010 CEC
TITLE 24, CCR, PART 4, 2010 CMC
TITLE 24, CCR, PART 9, 2010 CFC
ALL APPLICABLE LOCAL CODES.
- ELECTRICAL CONTRACTOR SHALL PROCUCE AND PAY FOR ALL LICENSES, ETC. REQUIRED TO CARRY ON AND COMPLETE THE WORK. PERMIT BY OWNER.
- PROVIDE ALL LABOR, MATERIALS, TOOLS, PLANT EQUIPMENT, TRANSPORTATION AND PERFORM ALL OPERATIONS NECESSARY FOR ANY REASONABLE INCIDENTAL TO PROPER EXECUTION AND COMPLETION OF ALL "ELECTRICAL WORK" WHETHER SPECIFICALLY MENTIONED OR NOT; ALL AS INDICATED, SPECIFIED HEREIN, AND/OR IMPLIED THEREBY TO CARRY OUT THE APPARENT INTENT THEREOF.
- ALL ELECTRICAL MATERIALS SHALL BE NEW AND LISTED WITH THE UNDERWRITERS' LABORATORIES, INC., SHALL MEET THEIR REQUIREMENTS AND SHALL BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY.
- ELECTRICAL DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION AT THE SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT AND INSTALLING HIS WORK TO AVOID INTERFERENCE WITH OTHER TRADES.
- CONDUCTORS SHALL BE COPPER CONDUCTORS TYPE THWN UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.

NAMEPLATES & IDENTIFICATION:

INSTALL ENGRAVED NAMEPLATES FOR EACH PANELBOARD, CABINET, DISCONNECT, ETC. NAMEPLATES SHALL BE SECURELY FASTENED TO THE EQUIPMENT WITH #4 PHILLIPS ROUND HEAD CADMIUM PLATED SELF-TAPPING SCREWS, BRASS BOLT, OR WITH A PLASTIC RESIN ADHESIVE GLUE, GOODYEAR "PLIEBOND" OR EQUAL.

WIRING METHODS:

- ALL WIRING SHALL BE INSTALLED IN STEEL CONDUITS, CONCEALED IN WALL AND CEILING U.O.N.
- MINIMUM CONDUIT SIZE SHALL BE 1/2". MINIMUM ACCEPTABLE CONDUITS ARE
 - A. GALVANIZED RIGID STEEL.
 - B. GALVANIZED STEEL EMT.
 - C. LIQUID TIGHT STEEL FLEX - FOR FINAL CONNECTION TO OUTDOOR EQUIPMENT.
 - D. FLEXIBLE STEEL CONDUIT - FOR INDOOR FINAL CONNECTIONS TO MECHANICAL EQUIPMENT (NOT TO EXCEED 36").
 - E. PVC CONDUIT SCHEDULE 40, UNDERGROUND.
- NMC CABLING SYSTEMS ARE NOT ALLOWED IN THIS BUILDING.
- MC CABLING SYSTEMS ARE NOT ALLOWED IN THIS BUILDING.

SUPPORTS:

- FURNISH ALL NECESSARY FOUNDATIONS, SUPPORTS, BACKING, ETC., FOR ALL ELECTRICAL ENCLOSURES, CONDUITS AND EQUIPMENT.
- ATTACH ALL ELECTRICAL JUNCTION BOXES TO WOOD WITH WOOD OR LAG SCREWS, TO METAL WITH MACHINE SCREWS OR BOLTS AND TO CONCRETE WITH EXPANSION ANCHORS AND MACHINE SCREWS OR BOLTS.

GROUNDING:

- GROUND AND BOND ALL EQUIPMENT AS REQUIRED BY GOVERNING CODES AND SPECIFICALLY INCLUDING SWITCHBOARD, PANELBOARDS, MOTOR CASES, ETC.

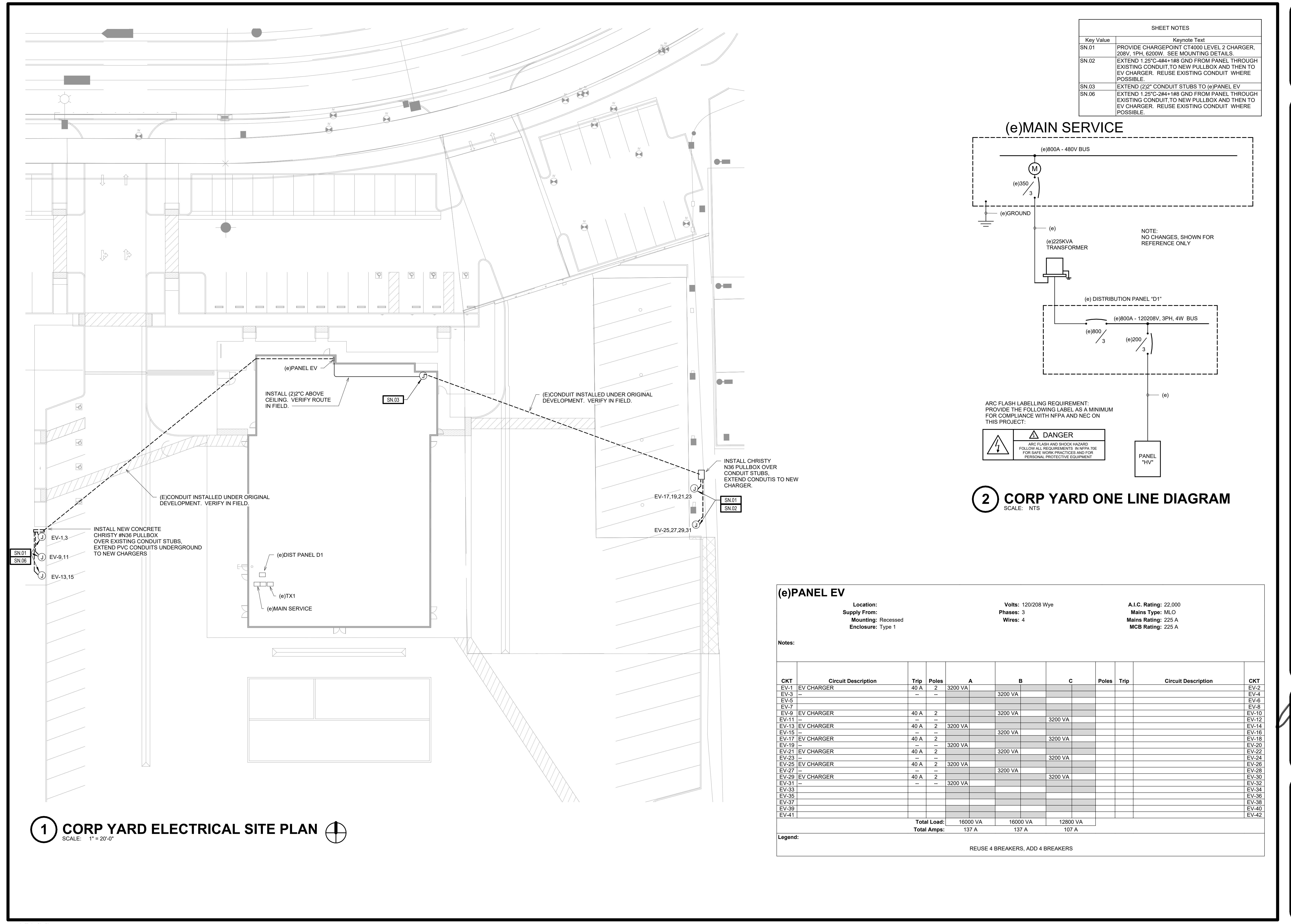
PANELBOARDS:

UNITS SHALL BE FLUSH OR SURFACE MOUNTED AS INDICATED ON THE PANEL SCHEDULE, WITH THE NUMBER AND SIZE OF BREAKERS INDICATED ON THE PANEL SCHEDULE. SINGLE POLE, TWO POLE AND THREE POLE BREAKERS SHALL BE BOLT-ON TYPE. THE PANEL DOORS SHALL HAVE FLUSH TYPE LOCKS, ALL LOCKS SHALL BE KEYED ALIKE AND HAVE TYPEWRITTEN DIRECTORIES INDICATING FIXTURES, EQUIPMENT, OR OUTLETS SERVICED BY EACH BREAKER. ALL BUSSING SHALL BE COPPER.

TESTING:

- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE FREE FROM SHORT CIRCUITS AND IMPROPER GROUNDS. TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS BEFORE ANY FIXTURES OR EQUIPMENT ARE CONNECTED AND WHETHER SUCH TESTS INDICATE FAULTY INSULATION OR OTHER DEFECTS, THEY SHALL BE LOCATED, REPAIRED AND RETESTED AT THE CONTRACTOR'S EXPENSE.

ELECTRICAL LEGEND	
	ELECTRICAL POWER ALL LINE VOLTAGE WIRING IN CONDUIT, SEE GENERAL NOTES TICKS = # OF #12 WIRE, SHORT = HOT, LONG = NEUTRAL, DOT = GROUND, UNLESS NOTED OTHERWISE
	120V OUTLET, +18" TO BOTTOM OF BOX • S = SIGN • F = FLOOR • GFI = GROUND FAULT INTERRUPTER
	COUNTER OUTLET, +44" TO TOP OF BOX
	QUADRUPLEX OUTLET
	HALF SWITCHED OUTLETS
	JUNCTION BOX WITH MOTOR TOGGLE DISCONNECT
	JUNCTION BOX
	MOTOR / DISCONNECT
	PANELBOARD
	TRANSFORMER / SWITCHBOARD AS NOTED
	DRAFTING NOTATIONS
	KEY NOTE, SEE SCHEDULE
	EQUIPMENT TAG, SEE SCHEDULE
	REFERENCE TO A DETAIL VIEW "A" ON SHEET E-2
	NEW ELECTRICAL CONDUIT AND WIRE
	EXISTING DEVICE, TO REMAIN IN OPERATION
	ELECTRICAL ABBREVIATIONS:
	AL = ALUMINUM A = ALUMINUM AIC = AMPERE INTERRUPTING CAPACITY AFF = ABOVE FINISHED FLOOR AFG = ABOVE FINISHED GRADE CCT = CIRCUIT CO = CONDUIT ONLY CU = COPPER EC = ELECTRICAL CONTRACTOR GC = GENERAL CONTRACTOR GFI = GROUND FAULT INTERRUPTER GND = GROUND KW = KILOWATT KVA = KILO-VOLT-AMPERE LC = LOAD CENTER NO. = NUMBER NL = NIGHT LIGHT PB = PULLBOX SP = SPACE UG = UNDERGROUND UON = UNLESS OTHERWISE NOTED V = VOLT WP = WEATHERPROOF



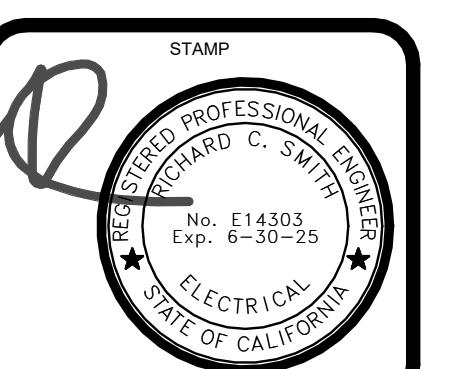
REVISIONS

BY

HCS
Engineering
50 years
4512 Feather River Dr #F, Stockton, CA 95219
208-478-4270 | www.hcs-eng.com

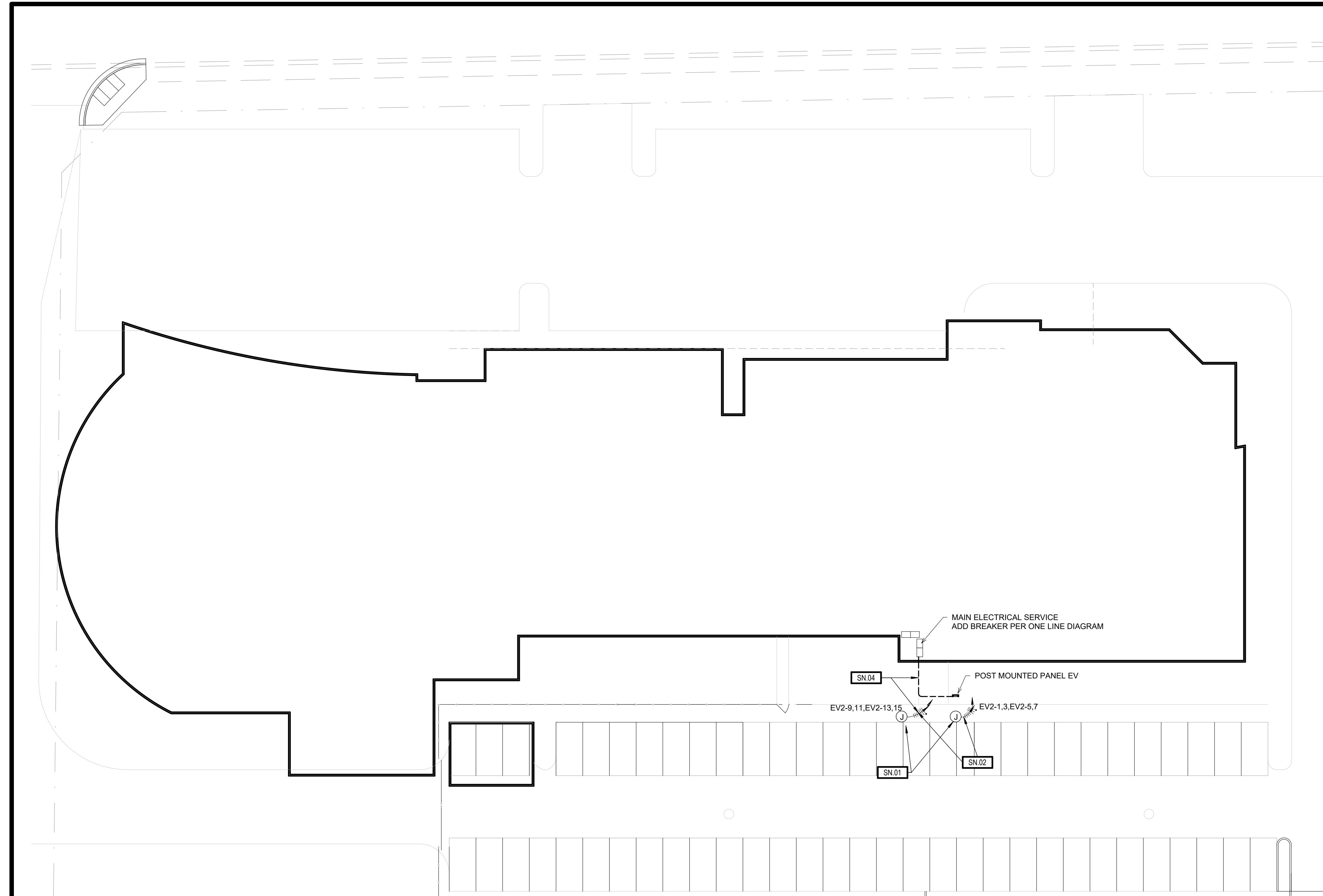
RIPON CORP YARD

PROJECT:
EV CHARGER INSTALLATION FOR:
CITY OF RIPON
CORPORATE DOCK
CITY HALL, WILMA AVE



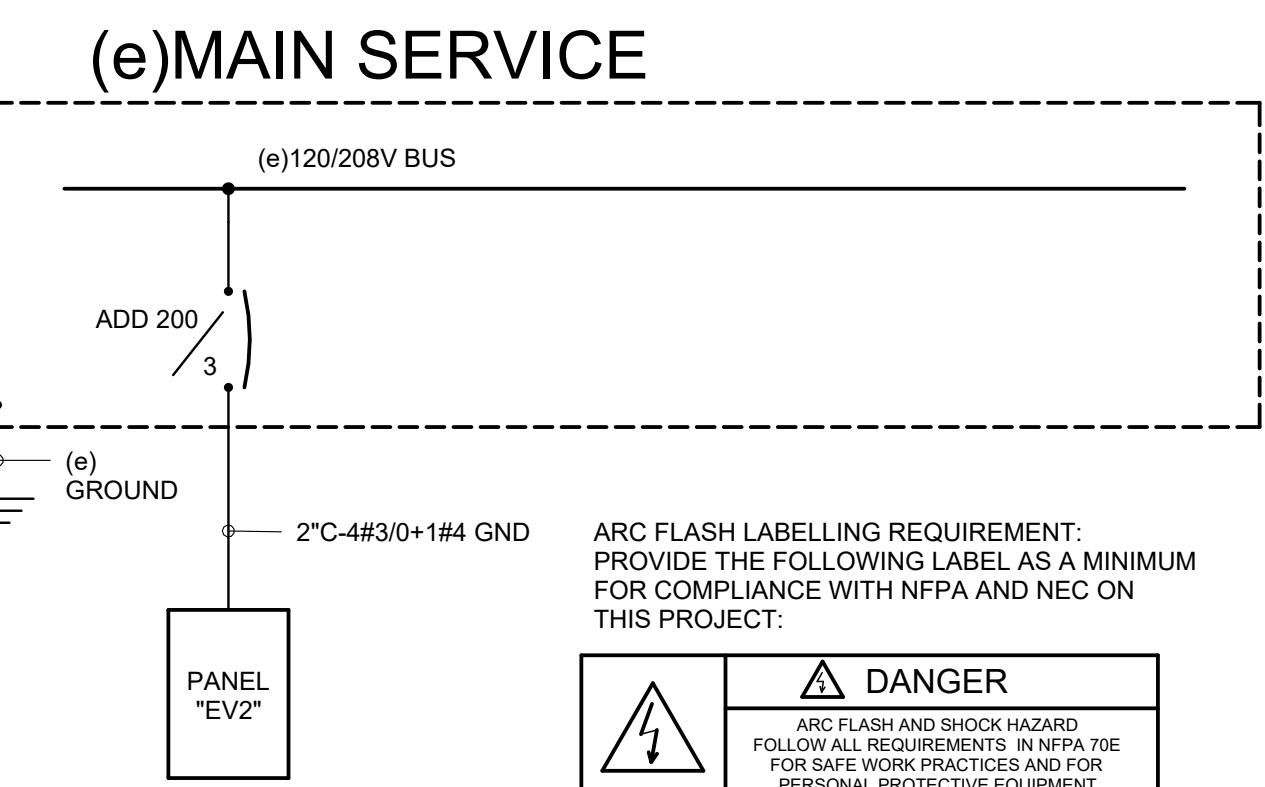
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SCALE:
As indicated
Job:
2017-XXX
SHEET:

E2



1 CITY HALL ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"



2 CITY HALL ONE LINE

SCALE: NTS

PANEL EV2

Location:
Supply From:
Mounting: POST MOUNTED
Enclosure: NEMA 3R

Volts: 120/208 Wye
Phases: 3
Wires: 4

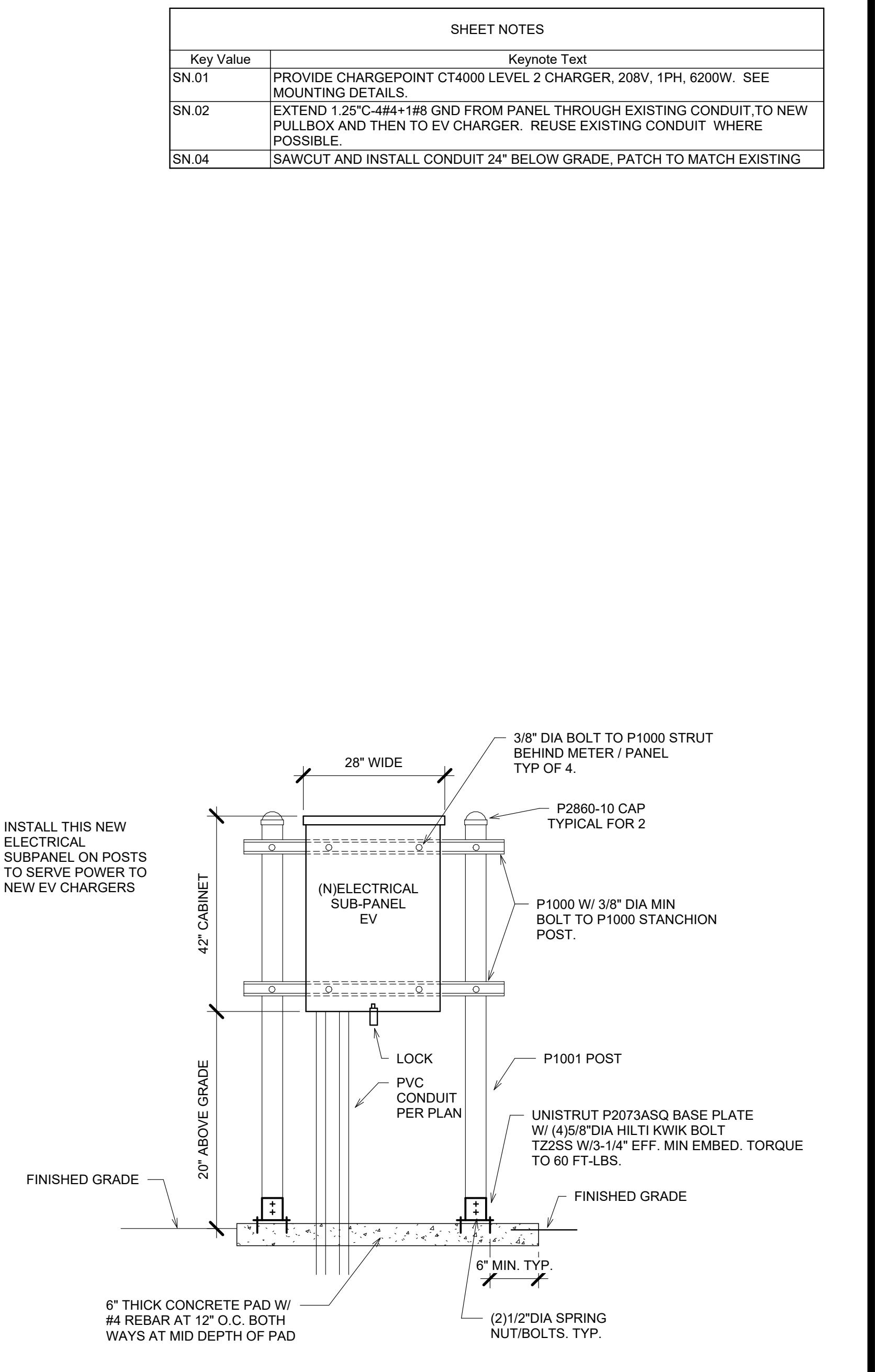
A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
EV2-1	EV CHARGER	40 A	2	3200 VA						EV2-2
EV2-2		—	—		3200 VA					EV2-4
EV2-3	EV CHARGER	40 A	2		3200 VA					EV2-5
EV2-4		—	—	3200 VA						EV2-8
EV2-5	EV CHARGER	40 A	2		3200 VA					EV2-10
EV2-6		—	—		3200 VA					EV2-12
EV2-7	EV CHARGER	40 A	2	3200 VA						EV2-14
EV2-8		—	—		3200 VA					EV2-16
EV2-9	EV CHARGER	40 A	2		3200 VA					EV2-18
EV2-10		—	—							EV2-20
EV2-11	EV CHARGER	40 A	2	3200 VA						EV2-22
EV2-12		—	—		3200 VA					EV2-24
EV2-13	EV CHARGER	40 A	2		3200 VA					EV2-26
EV2-14		—	—							EV2-28
EV2-15	EV CHARGER	40 A	2	3200 VA						EV2-30
EV2-16		—	—		3200 VA					
EV2-17	EV CHARGER	40 A	2		3200 VA					
EV2-18		—	—							
EV2-19	EV CHARGER	40 A	2	3200 VA						
EV2-20		—	—							
EV2-21	EV CHARGER	40 A	2		3200 VA					
EV2-22		—	—							
EV2-23	EV CHARGER	40 A	2	3200 VA						
EV2-24		—	—							
EV2-25	EV CHARGER	40 A	2		3200 VA					
EV2-26		—	—							
EV2-27	EV CHARGER	40 A	2	3200 VA						
EV2-28		—	—							
EV2-29	EV CHARGER	40 A	2	3200 VA						

Legend:

SHEET NOTES	
Key Value	Keynote Text
SN.01	PROVIDE CHARGEPOINT CT4000 LEVEL 2 CHARGER, 208V, 1PH, 6200W. SEE MOUNTING DETAILS.
SN.02	EXTEND 1.25" C-4#4-1#8 GND FROM PANEL THROUGH EXISTING CONDUIT TO NEW PULL BOX AND THEN TO EV CHARGER. REUSE EXISTING CONDUIT WHERE POSSIBLE.
SN.04	SAWCUT AND INSTALL CONDUIT 24" BELOW GRADE, PATCH TO MATCH EXISTING



3 POST MOUNTED PANEL

SCALE: NTS

REVISIONS	BY
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