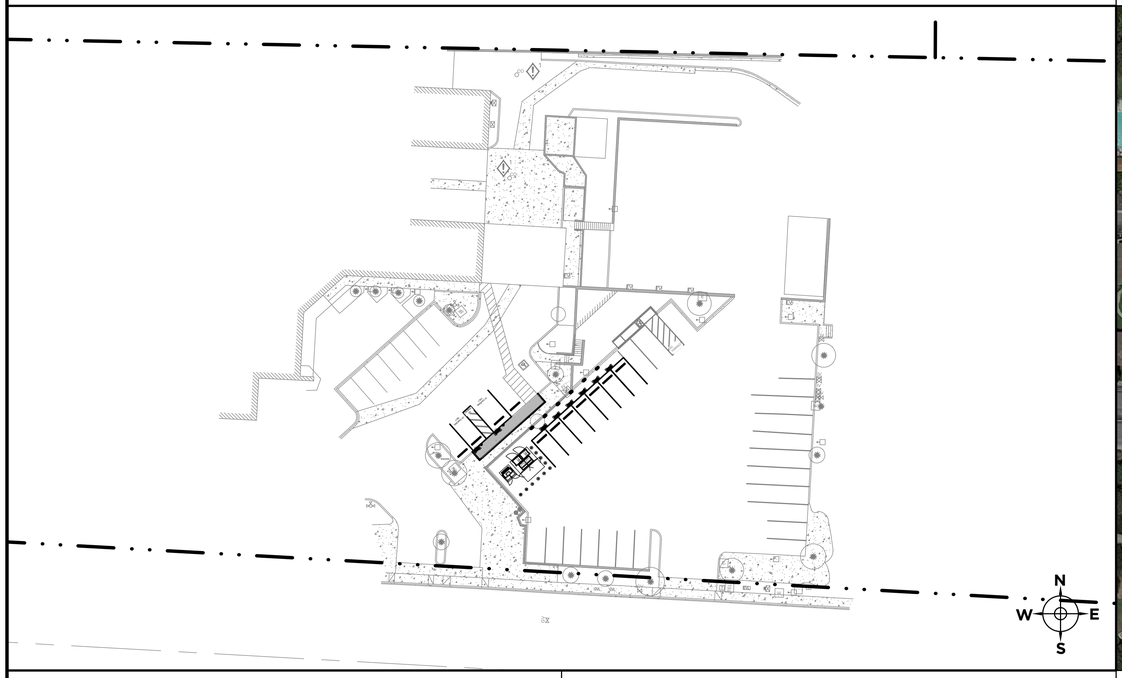
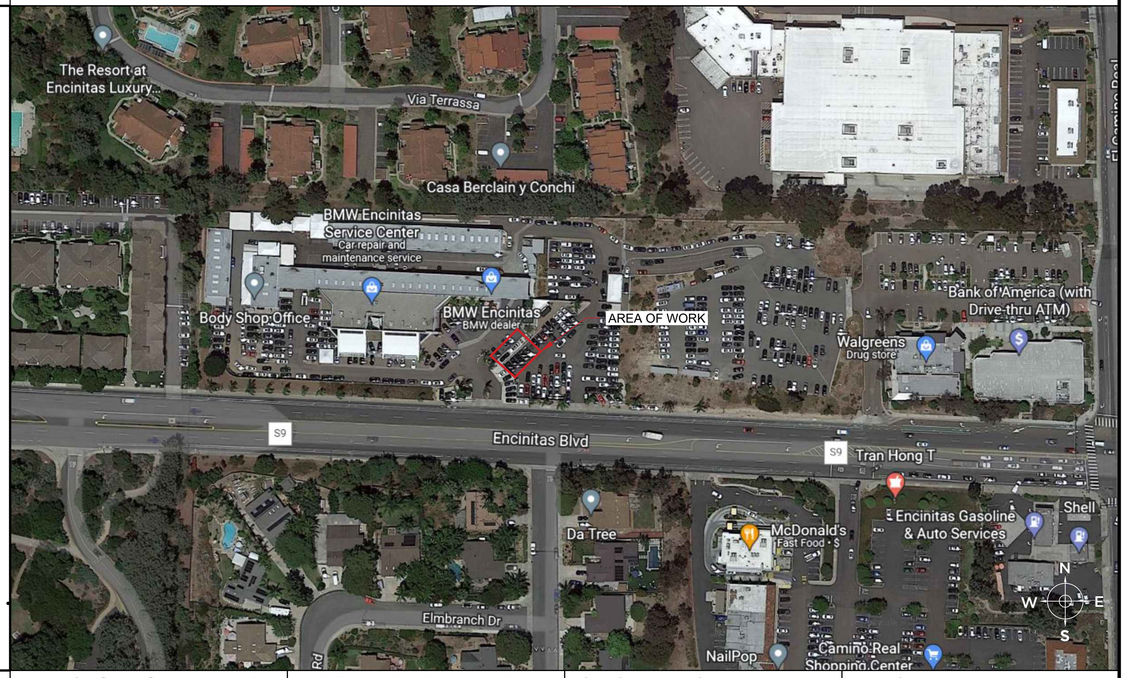
TESLA SUPERCHARGER ENCINITAS, CA - 1302 ENCINITAS BLVD - SUITE EV
8 SUPERCHARGERS
APN: 259-121-29-00
TRT: 35408

SITE LAYOUT



AERIAL MAP



ABBREVIATIONS

AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
BLDG	BUILDING
CLR	CLEAR
COMM	COMMUNICATION
CONC	CONCRETE
DC	DIRECT CURRENT
DIA	DIAMETER
DIST	DISTANCE
(E)	EXISTING
EA.	EACH
EGC	EQUIPMENT GROUNDING CONDUCTOR
EMT	ELECTRICAL METALLIC TUBING
EQ	EQUAL
ERMS	ENERGY REDUCTION MAINTENANCE SETTINGS
ESS	ENERGY STORAGE SYSTEM
EV	ELECTRIC VEHICLE
GAB	GRADED AGGREGATE BASE
GALV	GALVANIZED
GEC	GROUNDING ELECTRODE CONDUCTOR
GFP	GROUND FAULT PROTECTOR
GND	GROUND
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
I	CURRENT
IMP	CURRENT AT MAX POWER
INV	INVERTER
ISC	SHORT CIRCUIT CURRENT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT-HOUR
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS GROUND
LV	LOW-VOLTAGE
LVDC	LOW VOLTAGE DIRECT CURRENT
MAX	MAXIMUM
MIN	MINIMUM
MV	MEDIUM-VOLTAGE
(N)	NEW
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NRTL	NATIONALLY-RECOGNIZED TESTING LABORATORY
NTS	NOT TO SCALE
OC	ON CENTER
PCC	POINT OF COMMON COUPLING
PL	PROPERTY LINES
PLC	POWER LINE COMMUNICATION
PP	POWERPACK
PSU	PRE-ASSEMBLED SUPERCHARGER UNIT
PV	PHOTOVOLTAIC
PVC	POLYVINYL CHLORIDE
RSD	RAPID SHUTDOWN
SCCR	SHORT CIRCUIT CURRENT RATING
SCH	SCHEDULE
SQ. IN.	SQUARE INCHES
SS	STAINLESS STEEL
SSBJ	SUPPLY SIDE BONDING JUMPER
SSD	SEE STRUCTURAL DRAWINGS
STC	STANDARD TESTING CONDITIONS
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
W	WATT

PROJECT TEAM

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ELECTRICAL ENGINEER OF RECORD:
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ARCHITECT OF RECORD:
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DESIGN CRITERIA

1. WIND DESIGN
   - DESIGN WIND SPEED = 96 MPH (ULTIMATE)
   - RISK CATEGORY = II
   - WIND EXPOSURE = C
2. SEISMIC DESIGN
   - RISK CATEGORY = II
   - SEISMIC IMPORTANCE FACTOR = 1.0
   - SITE CLASS = D
   - Ss = 1.091 / S1 = 0.391
   - Sds = 0.872 / Sd1 = 0.508
   - SEISMIC DESIGN CATEGORY = D
   - BASIC SEISMIC-FORCE-RESISTING SYSTEM = NON-STRUCTURAL COMPONENT
   - R = 2.5 / a_p = 1.0
3. GROUND SNOW LOAD = 0 PSF

APPLICABLE CODES
2022 CALIFORNIA BUILDING CODE
2022 CALIFORNIA ELECTRICAL CODE
2022 CALIFORNIA FIRE CODE
2022 CALIFORNIA ENERGY CODE

REFERENCED DOCUMENTS
SUPERCHARGER INSTALLATION MANUAL
SUPERCHARGER POST INSTALLATION MANUAL
TOPOGRAPHIC SURVEY
UTILITY DESIGN

PROJECT SCOPE

INSTALLATION OF SUPERCHARGERS AND ASSOCIATED AC AND DC EQUIPMENT.

INSTALLATION OF CONCRETE EQUIPMENT PADS AND WALKWAYS.

INSTALLATION OF NEW PARKING STRIPING, SIGNAGE AND ADA ACCESS FEATURES.

ASPHALT OVERLAY FOR PROPOSED EV ADA STALLS UNDER SEPARATE PERMIT (BLDR-018256-202) B

SYSTEM SUMMARY

SUPERCHARGER SYSTEM SUMMARY

EQUIPMENT	QTY
V3 SUPERCHARGER CABINETS	2
V3 SUPERCHARGER POSTS	8
UTILITY TRANSFORMER	1
SWITCHBOARD	1

SHEET INDEX

TESLA

3500 DEER CREEK RD.
PALO ALTO, CA 94304
(650) 681-5000

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

REGISTERED PROFESSIONAL ENGINEER
JARED MARCHAND
E23862
ELECTRICAL
STATE OF CALIFORNIA

2/27/2023

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1302 ENCINITAS BLVD - SUITE EV,
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COVER PAGE

G-001

JB-92025611-00

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GENERAL NOTES

ALL WORK SHALL COMPLY WITH ALL STATE AND LOCAL CODES AND ANY OTHER REGULATING AUTHORITIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK.

PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE FROM TESLA OF ANY DISCREPANCIES. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED AT THE SUBCONTRACTORS SOLE EXPENSE.

SUBCONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO TESLA FOR APPROVAL BEFORE MAKING ANY CHANGES. DEVIATION FROM PLANS BEFORE WRITTEN APPROVAL FROM TESLA PLACES LIABILITY ON THE SUBCONTRACTOR.

ALL EQUIPMENT SHALL BE MOUNTED AS SHOWN. WHERE DETAILS ARE NOT PROVIDED, CONTRACTOR SHALL USE STANDARD CONSTRUCTION PRACTICES.

ALL SURFACES SHALL BE PATCHED AND PAINTED AROUND NEW DEVICES AND EQUIPMENT TO MATCH EXISTING FINISHES.

ANY METAL SHAVINGS FROM SITE WORK SHALL BE CLEANED FROM ALL SURFACES WHERE OXIDIZED OR CONDUCTIVE METAL SHAVINGS MY CAUSE RUST, ELECTRICAL SHORT CIRCUITS, OR OTHER DAMAGE.

APPROVALS FROM BUILDING INSPECTORS SHALL NOT CONSTITUTE AUTHORITY TO DEVIATE FROM THE DRAWINGS.

NEW PAVEMENT INSTALLED AS PART OF THIS PROJECT SHALL MATCH EXISTING PAVEMENT SECTION. ASPHALT AND GAB DEPTHS SHALL BE MAINTAINED.

ELECTRICAL NOTES

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AS AMENDED BY APPLICABLE STATE AND LOCAL CODES.
2. ALL WIRING SHALL BE MANAGED IN A PROFESSIONAL, WORKMAN-LIKE MANNER AND MUST BE SUPPORTED, SECURED, AND PROTECTED TO PREVENT DAMAGE.
3. AC CIRCUIT CONDUCTORS SHALL BE IDENTIFIED BY PHASE AND SYSTEM PER ART 210.5 OR 215.12. UNLESS OTHERWISE REQUIRED BY ART 210.5(1) OR AHJ, COLOR-CODING OF POWER CONDUCTORS SHALL BE AS FOLLOWS:

CONDUCTOR	277/480V	120/208V
PHASE A	BROWN	BLACK
PHASE B	ORANGE	RED
PHASE C	YELLOW	BLUE
NEUTRAL	GRAY	WHITE

4. DC CIRCUIT CONDUCTORS SHALL BE IDENTIFIED PER ART 210.5 OR 215.12:

CONDUCTOR	STD COLOR	ALT COLOR
DC+	RED	RED-STRIPED
DC-	BLACK	BLACK-STRIPED

5. TERMINATIONS OF AC, DC, AND COMMUNICATIONS CONDUCTORS SHALL BE PROFESSIONALLY AND LEGIBLY LABELED WITH CIRCUIT SCHEDULE IDENTIFIER, CONDUCTOR SIZE (AS APPLICABLE) AND TERMINATION TORQUE.
6. ALL EQUIPMENT SHALL BE LISTED BY A NRTL IN COMPLIANCE WITH ART 110.3. WHERE EXISTING NRTL LISTING CANNOT BE MAINTAINED, ENGINEERING APPROVAL SHALL BE OBTAINED PRIOR TO EQUIPMENT MODIFICATION, AND THE EQUIPMENT SHALL BE RELISTED BY A SUITABLE NRTL.
7. UNDERGROUND CONDUCTORS & CABLES TO BE INSTALLED IN CONDUIT UON.
8. ALL WIRES SHALL BE PROVIDED WITH STRAIN RELIEF AT ALL ENTRY INTO BOXES AS REQUIRED BY NRTL LISTING.
9. REFER TO MANUFACTURER'S CURRENT PLANNING AND INSTALLATION MANUAL FOR TORQUE SPECS FOR ALL BOLTS AND TERMINAL CONNECTIONS.
10. ALL CONDUCTOR TERMINATIONS ON BUSSING OR TRANSFORMER SPADES SHALL BE MADE WITH HIGH-PRESS CRIMP LUGS UON.
11. ALL TERMINATIONS OF ALUMINUM CONDUCTORS SHALL BE PROPERLY INSTALLED WITH BEST PRACTICES INCLUDING BUT NOT LIMITED TO:
    - USE OF TERMINATION EQUIPMENT RATED FOR ALUMINUM AT THE CONDUCTOR TEMPERATURE, CURRENT, AND VOLTAGE
    - ALLOWANCE FOR MOVEMENT DUE TO THERMAL EXPANSION/CONTRACTION
    - PROPER COATING OF EXPOSED ALUMINUM WITH ANTI-OXIDIZATION COMPOUND
    - USE OF CALIBRATED DEVICES TO TORQUE AND MARK TERMINALS TO REQUIRED SETTINGS
12. DUCT SEAL COMPOUND SHALL BE APPLIED WHEREVER CONDUITS TRANSITION INDOOR/OUTDOOR OR UNDERGROUND/ABOVEGROUND. REFER TO EQUIPMENT NOTES FOR ADDITIONAL DUCT SEAL REQUIREMENTS.
13. BELL ENDS SHALL BE INSTALLED WHEREVER CONDUIT ENTERS EQUIPMENT FROM UNDERGROUND AND WHEREVER POTENTIAL FOR DAMAGE TO CONDUCTORS IS PRESENT AT ANY POINT. BELL ENDS SHALL NOT PREVENT THE USE OF GROUNDING FITTINGS OR COUPLERS WHEN REQUIRED.
14. ALL STUB-UPS WITHIN FLOOR-MOUNTED EQUIPMENT SHALL BE 3-5" ABOVE FINISHED GRADE.
15. ALL CONDUITS EXPOSED TO VEHICULAR OR EQUIVALENT PHYSICAL DAMAGE SHALL BE RIGID GALVANIZED STEEL.
16. GROUND LUGS SHALL BE RATED FOR THEIR ENVIRONMENT AND CONDITION OF USE.

SUPERCHARGER NOTES

1. NEUTRAL MUST BE INCLUDED FOR PROPER OPERATION OF TESLA SUPERCHARGERS.
2. ALL CONDUIT FURNISHED AND INSTALLED BY CONTRACTOR. ALL WIRING FURNISHED BY TESLA AND INSTALLED BY CONTRACTOR.
3. ALL BUSHINGS AND WIRING INTERNAL OF PROPOSED SERVICE EQUIPMENT PROVIDED BY MANUFACTURER. ANY MODIFICATIONS SHALL REQUIRE ENGINEERING APPROVAL PRIOR TO ANY CHANGES BEING MADE.
4. ALL ALUMINUM(AI) CONDUCTORS TO RECEIVE ANTI-OXIDATION COATING DURING INSTALLATION. ALL OTHER CONDUCTORS ARE COPPER UNLESS OTHERWISE NOTED.
5. THE FOLLOWING CHARGING CABINETS AND THE CHARGING POSTS USED ON THIS PROJECT COMPLY WITH THE FOLLOWING STANDARDS:
    - IEC 61851-23: 2014 / EN 61851-23: 2014
    - UL 2202: 2009(R2012)
    - CAN CSA C22.2 NO. 107.1-01(R2011)
6. THE AFOREMENTIONED STANDARDS IDENTIFY THE REQUIREMENTS MET BY THE EQUIPMENT, INCLUDING BUT NOT LIMITED TO:
    - PROTECTION AGAINST ELECTRIC SHOCK
    - OVERLOAD AND SHORT CIRCUIT PROTECTION
    - FAULT PROTECTION
    - DEGREES OF PROTECTION AGAINST ACCESS TO HAZARDOUS LIVE PARTS
    - THE INTERNAL COMPONENTS OF THE SYSTEM ARE PROPRIETARY. ANY QUESTIONS CONCERNING ACTUAL INTERNAL PROTECTIVE DEVICES MUST BE COORDINATED DIRECTLY WITH TESLA.
7. TESLA SUPERCHARGER SIGNAL WIRING RATED 1000V AND USED FOR POWER LIMITED CLASS 1 CIRCUITS SHALL BE PERMITTED TO RUN IN CONDUITS, CABLE TRAYS, WIRE WAYS, OR RACEWAYS ALONG WITH ASSOCIATED DC CONDUCTORS AS ALLOWED PER NEC 725.48(B)(1) AND 620.36.
8. SUPERCHARGER CABINET AC CONDUCTORS SIZED UNDER ENGINEERING SUPERVISION USING THERMAL MODELING SOFTWARE. SPECIFICATIONS ABOUT THE TRENCHING REQUIREMENTS ARE SHOWN IN E-501
9. FOR DC RUNS IN EXCESS OF 330 FEET, CONTACT TESLA.
10. UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC OR UL LISTED HDPE. THE ABOVEGROUND PORTION OF AN UNDERGROUND/ABOVEGROUND TRANSITION SHALL BE SCHEDULE 80 PVC OR UL LISTED HDPE.
11. ABOVEGROUND CONDUITS EXPOSED TO VEHICULAR OR EQUIVALENT PHYSICAL DAMAGE SHALL BE RMC. ABOVEGROUND CONDUITS NOT EXPOSED TO VEHICULAR OR EQUIVALENT DAMAGE SHALL BE PERMITTED TO BE EMT.
12. IF APPROVED BY TESLA CONSTRUCTION MANAGER, ALTERNATIVE CONDUIT MATERIALS SUCH AS FLEXIBLE OR FIBERGLASS ARE PERMISSIBLE IF INSTALLED PER MANUFACTURER INSTALLATION GUIDELINES AND LOCAL CODES.
13. WIRE SPLICES ARE NOT PERMITTED TO EXTEND WIRE RUN LENGTH. CONTRACTOR IS RESPONSIBLE FOR RERUNNING FULL LENGTH OF WIRE IF RUN LENGTH IS MISCALCULATED.
14. SPECIAL INSPECTION IS REQUIRED FOR ALL POST-INSTALLED CONCRETE ANCHORS.
15. PLANT GUARANTEE: CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF PROJECT ACCEPTANCE BY THE OWNER. CONTRACTOR IS RESPONSIBLE FOR PLANT MAINTENANCE FOR THE FIRST GROWING SEASON.
16. IF EXISTING GRASS IS DAMAGED/REMOVED DURING CONSTRUCTION, CONTRACTOR SHALL APPLY SEED PER HYDROSEED METHOD. RATING OF SEED SHALL BE PER DISTRIBUTOR BASED ON SPECIES TYPE.
17. CONTRACTOR SHALL MATCH EXISTING LANDSCAPE; USE GRASS, RIVER ROCK, MULCH ETC. TO MATCH EXISTING LANDSCAPE AROUND EQUIPMENT, UNLESS OTHERWISE NOTED.
18. CONTRACTOR TO INSTALL WEED BARRIER IN FRONT OF SUPERCHARGER CABINETS AND SWITCHBOARD. BARRIER TO EXTEND FULL WIDTH AND DEPTH OF NEC REQUIRED WORKING CLEARANCES.

SCOPE OF WORK

UTILITY	SDG&E		
CATEGORY	**ITEMS**	**TESLA**	**UTILITY**
PRIMARY	PRIMARY TRENCHING	X	
	INSTALL PRIMARY CONDUIT	X	
	INSTALL PULL ROPE	X	
	INSTALL PRIMARY FEEDERS		X
	PROVIDE PRIMARY FEEDERS		X
	PROVIDE ROAD CUTS / ROAD BORES	X	
	PAVEMENT REPLACEMENT	X	
TRANSFORMER	INSTALL TRANSFORMER PAD	X	
	PROVIDE TRANSFORMER		X
	INSTALL TRANSFORMER		X
	INSTALL CONNECTIONS - PRIMARY		X
	INSTALL CONNECTIONS - SECD		X
SWITCHBOARD	PROVIDE METER		X
	INSTALL METER		X
	LAND SECONDARY FEEDERS		X
SECONDARY	SECONDARY TRENCHING	X	
	INSTALL SECONDARY CONDUIT	X	
	INSTALL PULL ROPE	X	
	INSTALL SECONDARY FEEDERS		X
	PROVIDE SECONDARY FEEDERS		X
	PROVIDE ROAD CUTS / ROAD BORES	X	
	PAVEMENT REPLACEMENT	X	

SITE LEGEND (EXISTING OBJECTS)

- PROPERTY LINE
- CO — SANITARY CLEANOUT
- FIRE HYDRANT
- IV — IRRIGATION CONTROL VALVE
- LIGHT POLE
- ELECTRIC TRANSFORMER
- E — ELECTRIC PULLBOX
- ELECTRIC CABINET
- EVL — ELECTRIC VAULT
- EV — ELECTRIC VEHICLE CHARGING STATION
- TEL — TELEPHONE VAULT
- T — TELEPHONE PEDESTAL
- GVL — GAS VAULT
- HANDICAP PARKING
- PALM TREE WITH DRIPLINES
- BOLLARD
- SIGN
- CONCRETE AREA
- WATER LINE (UNDERGROUND)
- GAS LINE (UNDERGROUND)
- ELECTRIC LINE (UNDERGROUND)
- TELEPHONE LINE (UNDERGROUND)
- CHAIN LINK FENCE
- IRON FENCE
- HAND RAIL

TESLA

3500 DEER CREEK RD.
PALO ALTO, CA 94304
(650) 681-5000

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

0 1/2" 1"

REGISTERED PROFESSIONAL ENGINEER
JARED MARCHAND
E23862
ELECTRICAL
STATE OF CALIFORNIA

2/27/2023

TESLA SUPERCHARGER_ENCINITAS, CA
8 SUPERCHARGERS
1302 ENCINITAS BLVD - SUITE EV,
ENCINITAS, CA 92024, US

NO.	REVISION	DATE
A	AHJ COMMENTS	02/05/2023
B	AHJ COMMENTS	02/27/2023

NOTES

G-002

JB-92025611-00

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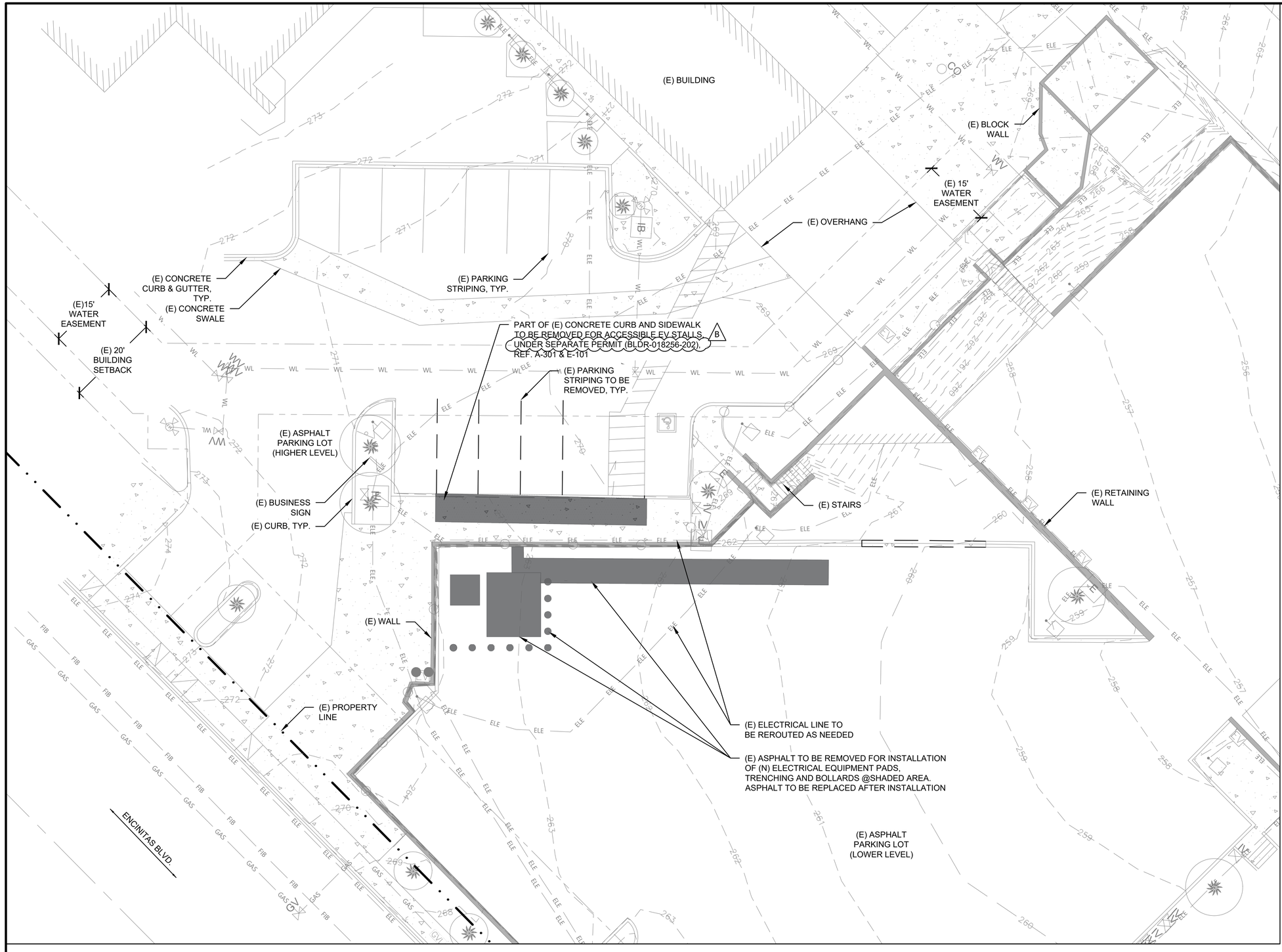

DEMOLITION PLAN

1" = 10'-0"

0 1' 5' 10' 20'

NOTES

THE CONTRACTOR SHALL REFER TO THE TRENCHING DETAILS ON THE ELECTRICAL DETAILS SHEET.

THE LIMITS OF HARDSCAPE REMOVAL ARE SHOWN AS FOR INFORMATION ONLY AND IT SHALL BE UP TO THE CONTRACTOR TO DETERMINE THE EXACT LIMITS.

SITE LEGEND

- ANY (E) ELEMENT TO BE REMOVED
- HARDSCAPED AREA TO BE MODIFIED

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DEMO PLAN

G-101

JB-92025611-00

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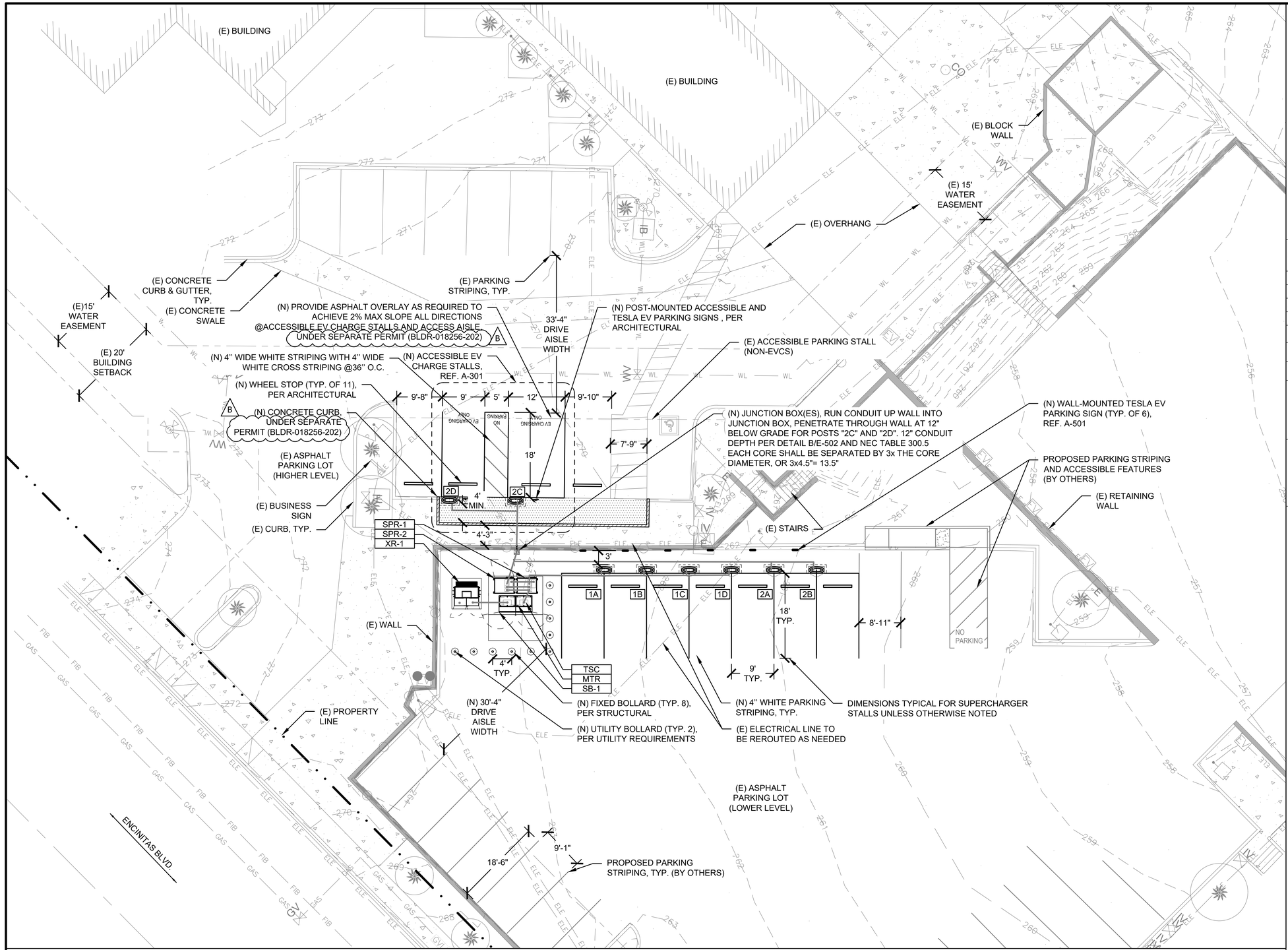


ELECTRICAL SITE PLAN

1" = 10'-0"

0 1' 5' 10' 20'

SITE LEGEND

- (N) UNDERGROUND CONDUIT ROUTE, SHOWN FOR DIAGRAMMATIC PURPOSES ONLY.
- (N) ABOVEGROUND CONDUIT ROUTE, SHOWN FOR DIAGRAMMATIC PURPOSES ONLY.
- (N) FIXED BOLLARD
- (N) UTILITY BOLLARD
- (N) SIGN
- (N) CONCRETE CURB
- (N) FULL DEPTH ASPHALT

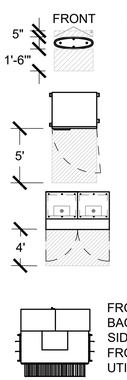
PARKING STALL SCHEDULE

EXISTING STANDARD STALLS UTILIZED AS A RESULT OF THIS PROJECT	3
PROPOSED TESLA STALLS	8
PROPOSED STANDARD STALLS	0
AB1100 EV VAN CREDIT	1
NET STALL COUNT	**+6**

CHARGING STALLS SCHEDULE

SUPERCHARGER CABINET	POST TAG	SIGN TYPE
1	1A	DEDICATED
	1B	DEDICATED
	1C	DEDICATED
	1D	DEDICATED
2	2A	DEDICATED
	2B	DEDICATED
	2C	DEDICATED & ACCESSIBLE
	2D	DEDICATED

MINIMUM SERVICE CLEARANCES



NOTES:

1. UTILITY EQUIPMENT/FOUNDATION DIMENSIONS AND LOCATIONS PER UTILITY. CONTRACTOR TO VERIFY AGAINST EXECUTED UTILITY DESIGN.
2. UTILITY BOLLARDS PER UTILITY REQUIREMENTS. CONTRACTOR TO VERIFY AND COORDINATE WITH UTILITY ON LOCATION, QUANTITY, AND SPECS.
3. CONTRACTOR TO REFER TO EXECUTED UTILITY DESIGN FOR PRIMARY AND POINT OF CONNECTION DETAILS.
4. FOR (N) ACCESSIBLE EV CHARGING AREA(S), CONTRACTOR TO FIELD VERIFY SLOPES ARE COMPLIANT PER ACCESSIBLE STALL DETAIL (REF. ARCHITECTURAL OR STRUCTURAL SHEETS). REGRADE AND ADD ASPHALT OVERLAY, NEW FULL DEPTH ASPHALT, AND/OR ASPHALT MILLING IF REQUIRED.

EQUIPMENT TAGS

XR-#	TRANSFORMER (PROVIDED BY UTILITY PER UTILITY DESIGN)	TSC	TESLA SITE CONTROLLER
SB-#	SWITCHBOARD	MTR	UTILITY METER (PROVIDED BY UTILITY PER UTILITY DESIGN)
SPR-#	SUPERCHARGER CABINET	#X	SUPERCHARGER POST

PARKING SIGNS, REF A-501

DEDICATED — TESLA VEHICLE CHARGING ONLY

ACCESSIBLE — VAN ACCESSIBLE

PROPRIETARY AND CONFIDENTIAL

PLOT DATE: 2/27/2023 5:23 PM IPEREZCARREON

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E-101

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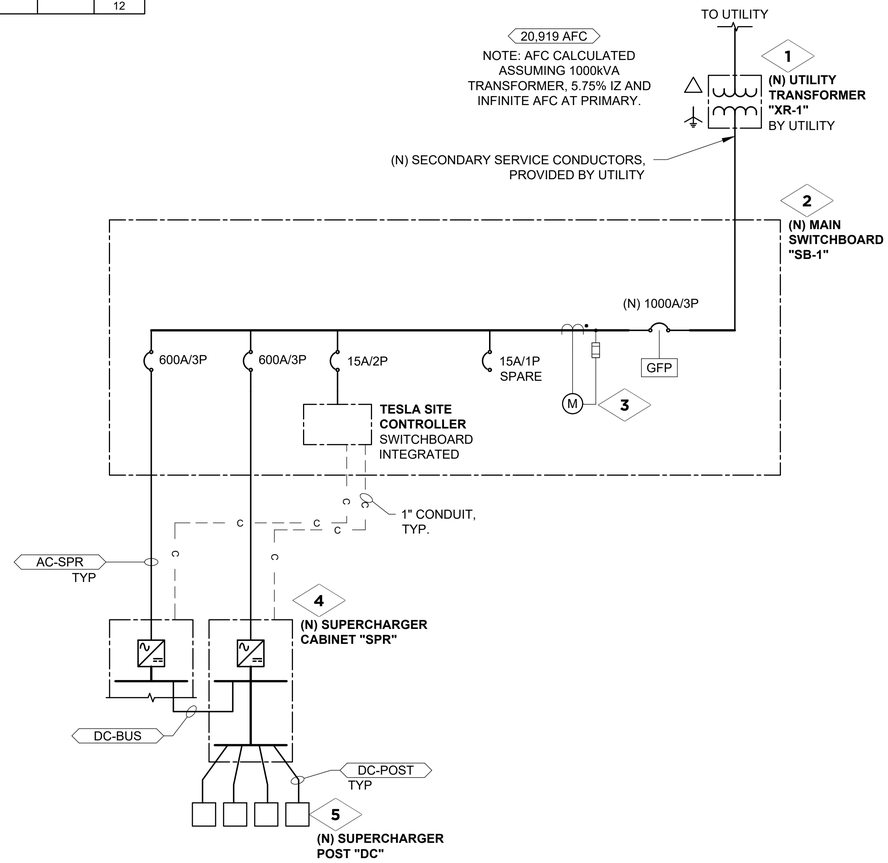
LOAD SCHEDULE

SWITCHBOARD "SB-1" LOAD SCHEDULE

CKT NO	TRIP AMPS	DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	DESCRIPTION	TRIP AMPS	CKT NO
1	600	SUPERCHARGER #1	129,000	-	-	129,000	-	-	SUPERCHARGER #2	600	2
3	"	"	-	129,000	-	-	129,000	-	"	"	4
5	"	"	-	-	129,000	-	-	129,000	"	"	6
7	15	MONITORING	50	-	-						8
9	"	"	-	50	-						10
11	15	SPARE	-	-	-						12
		PHASE	A	B	C						
	TOTALS	APPARENT POWER	258 kVA	258 kVA	258 kVA						
		CURRENT	931 A	931 A	931 A						



SYSTEM PLACARDS

TESLA SUPERCHARGER
1306 ENCINITAS BLVD -
SUITE EV
1-877-798-3752

ATTACH ON FRONT OF SWITCHBOARD

TESLA EV SYSTEM DISCONNECT

ATTACH ON SWITCHBOARD MAIN DISCONNECT

PLACARD NOTES:

PLACARDS TO BE MADE OF RED PHENOLIC PLASTIC W/ 1" WHITE LETTERING. ATTACH PLACARDS WITH RIVETS OR SELF-TAPPING SCREWS

ADDITIONAL PLACARDS REQUIRED FOR ARC FLASH LABELS

AC CIRCUIT SCHEDULE

CIRCUIT #	CONDUCTOR METAL UON	# OF CONDUITS	# PHASE CONDUCTORS PER CONDUIT	PHASE CONDUCTOR SIZE	NEUTRAL CONDUCTOR SIZE	EGC	GEC SIZE (CU)	MAX CIRCUIT LENGTH	WIRE TYPE	CONDUIT TYPES	MIN CONDUIT SIZE (IN)
AC-SPR	AL	2	3	500 KCMIL	500 KCMIL	AWG 2/0 (AL) OR AWG #1 (CU)	-	600'	XHHW-2	PVC, RMC, EMT	4

DC CIRCUIT SCHEDULE

CIRCUIT #	CONDUCTOR METAL UON	# OF CONDUITS	# POWER CONDUCTORS PER CONDUIT	POWER CONDUCTOR SIZE	EGC	SIGNAL WIRE	DC MID	MAX CIRCUIT LENGTH	WIRE TYPE	CONDUIT TYPES	MIN CONDUIT SIZE (IN)
DC-POST	AL	1	4	350 KCMIL	AWG 2/0 (AL) OR AWG #1 (CU)	TESLA PROVIDED	-	330'	XHHW-2 (1000V)	PVC, RMC, EMT, HDPE	4
DC-BUS	AL	2	2	600 KCMIL	AWG 1/0 (CU)	-	AWG 3/0	900'	XHHW-2 (1000V)	PVC, RMC, EMT	3

EQUIPMENT NOTES

1	(N) UTILITY TRANSFORMER "XR-1" • SIZE & PRIMARY VOLTAGE PER UTILITY • SECONDARY 480Y/277V
2	(N) MAIN SWITCHBOARD "SB-1", • 480/277 VAC, 1000A • 1000A MAIN BREAKER, 100%-RATED, LSIG AND ERMS • 65 kAIC • NEMA 3R
3	(N) UTILITY METER • METER # TBD • COLD SEQUENCED
4	(N) SUPERCHARGER CABINET "SPR" • (2) SUPERCHARGER CABINETS • 480VAC, 3PH, 4W • 465A MAX AC INPUT • DC OUTPUT TO 4 CHARGE POSTS MAX EACH SUPERCHARGER CABINET • 85 kA SCCR
5	(N) SUPERCHARGER POST "DC" • 250KW • (8) SUPERCHARGER POSTS • 0 VDC - 500 VDC

LEGEND

- BUSSING
- CONDUCTORS
- SHIELDED CAT6 CABLE
- CIRCUIT BREAKER
- SWITCH
- FUSE
- CURRENT TRANSFORMER
- POWER TRANSFORMER
- DELTA TRANSFORMER WINDING
- WYE TRANSFORMER WINDING
- GROUNDED WYE TRANSFORMER WINDING
- EQPT. ENCLOSURES
- METER
- AC-DC OR DC-AC CONVERTER
- LIGHT WITH MOTION AND PHOTO SENSOR

TESLA
3500 DEER CREEK RD.
PALO ALTO, CA 94304
(650) 681-5000

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

0 ½" 1"

REGISTERED PROFESSIONAL ENGINEER
JARED MARCHAND
E23862
ELECTRICAL
STATE OF CALIFORNIA

2/27/2023

TESLA SUPERCHARGER_ENCINITAS, CA
8 SUPERCHARGERS
1302 ENCINITAS BLVD - SUITE EV,
ENCINITAS, CA 92024, US

NO.	REVISION	DATE
A	AHJ COMMENTS	02/05/2023
B	AHJ COMMENTS	02/27/2023

SINGLE LINE DIAGRAM

E-201

JB-92025611-00

REV: B | IFP

BREAKER SETTINGS

MAIN SWITCHBOARD SB-1, MCB 1000A ZPOWER			
		PHASE	GROUND
DESIGNATION	FRAME AMPS	1,600	1,600
	AIC kA	65	65
FRAME	MFR	GE	GE
	TYPE MODEL	SS	SS
TRIP UNIT	SENSOR AMPS	1,600	1,600
	PLUG AMPS	1,000	1,000
	DESCRIPTION	LSI(CB), 800-2000AF, UL489	GF, 200-2000AF
	TYPE/MODEL	SS, SH POWERBREAK II, EGTU	SS, SH POWERBREAK I & II, EGTU
TRIP UNIT SETTINGS (1000A TRIP)	LONG DELAY PICKUP (I_r)	1.00X (1000A)	
	LONG DELAY TIME (t_r)	C-10	
	SHORT DELAY PICKUP (I_{sd})	4X (4000A)	
	SHORT DELAY TIME (I^2t)	ST02-MIN (I^S T OFF)	
	INSTANTANEOUS PICKUP (I_i)	7.5X (7500A)	
	GROUND FAULT PICKUP (I_g)		0.63 (1000A)
	GROUND FAULT DELAY TIME (t_g)		GFD09 (I^S T OFF)

BREAKER SETTINGS - OPTION 2 "GE MODEL MCB"

BREAKER SETTINGS - SEQUENCE

SWITCHBOARD MAIN BREAKER	SUPERCHARGER CABINET BREAKERS
ENTELLIGUARD LSIG HMI TRIP UNIT (1000A TRIP)	SPECTRA RMS ELECTRONIC TRIP (600A TRIP)
SETUP <ENTER (TYP.)> →LONG TIME →CURVE: I²T →PICKUP: 1.0 →BAND: C10 →SHORT TIME →PICKUP: 4 →BAND: 2.0 →SLOPE: OFF →INST →PICKUP: 7.5 →GF SUM →PICKUP: 0.63 →BAND: 9.0 →SLOPE: OFF	INSTANTANEOUS: LOW

BREAKER SETTINGS

MAIN SWITCHBOARD SB-1, MCB 1000A ZPOWER			
		PHASE	GROUND
DESIGNATION	FRAME AMPS	1,200	1,200
	AIC kA	65	65
FRAME	MFR	EATON	EATON
	TYPE MODEL	SBN-612	SBN-612
TRIP UNIT	SENSOR AMPS	1,000	1,000
	PLUG AMPS	1,000	1,000
	DESCRIPTION	LSI, 1200AF, 200-1200AP	GF, 800-6000AF
	TYPE/MODEL	MAGNUM SB, DT 520	MAGNUM SB, DT 520
TRIP UNIT SETTINGS (1000A TRIP)	LONG DELAY PICKUP (I_r)	1 (1000A)	
	LONG DELAY TIME (t_r)	24s	
	SHORT DELAY PICKUP (I_{sd})	4 (4000A)	
	SHORT DELAY TIME (I^2t)	0.1s	
	INSTANTANEOUS PICKUP (I_i)	8 (8000A)	
	GROUND FAULT PICKUP (I_g)		1 (1000A)
	GROUND FAULT DELAY TIME (t_g)		0.5s

SUPERCHARGER CABINET BREAKERS
PD-3 THERMAL-MAG TRIP UNIT (600A TRIP)
INSTANTANEOUS (Ii): 5 (3000A)

BREAKER SETTINGS - OPTION 1 "EATON MODEL MCB"

TRENCHING NOTES

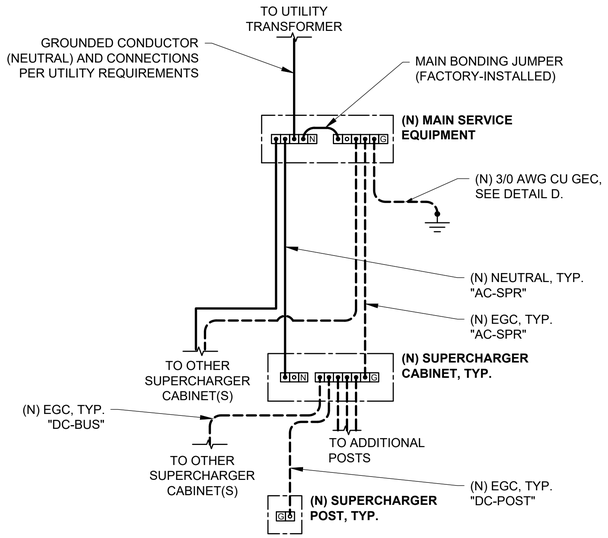
- THE TRENCH DESIGNS FOR AC-SPR, DC-POST, AND DC-BUS CIRCUITS ARE THE RESULT OF A THERMAL ANALYSIS OF THE CONDUCTORS UNDER LOAD. FOR PROPER PROTECTION THEY MUST BE FOLLOWED.
- APPROVED BACKFILL IS REQUIRED TO MEET THE DESIGNED RHO VALUES. USE THE SPECIFIED BACKFILL LISTED BELOW OR TEST NATIVE SOIL CONDITIONS TO CONFIRM MAX DEFINED RHO VALUES. MINIMUM 2" OF APPROVED BACKFILL COVERAGE AROUND CONDUITS REQUIRED.
- **RHO 60 BACKFILL** -CONCRETE BACKFILL WITH MIN 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI MUST BE USED TO ACHIEVE MAX RHO 60.
- **RHO 90 BACKFILL** - LOW STRENGTH FLUIDIZED THERMAL (SLURRY) BACKFILL WITH MIN 28 DAY COMPRESSIVE STRENGTH OF 150 PSI MUST BE USED TO ACHIEVE MAX RHO 90.
- FOR TRENCHES WITH MIXED CIRCUIT TYPES, APPLY THE CONDUIT SPACING FOR THE CIRCUIT TYPE WITH THE LARGER SPACING REQUIREMENT.
- CONDUIT TO BE INSTALLED TO A MAX COVER OF 24". COVER MAY BE REDUCED PER THE NEC TABLE 300.5.
- CONDUIT ARE PERMITTED TO HAVE GREATER THAN 24" COVER FOR SHORT DISTANCES WHERE REQUIRED TO CROSS UNDER (E) UTILITY LINES, TO ALLOW FOR NEC REQUIRED MIN RADIUS FOR CONDUIT TURN-UPS INTO PAD-MOUNTED EQUIPMENT, TO AVOID (E) OBSTRUCTIONS, ETC.

NOTES

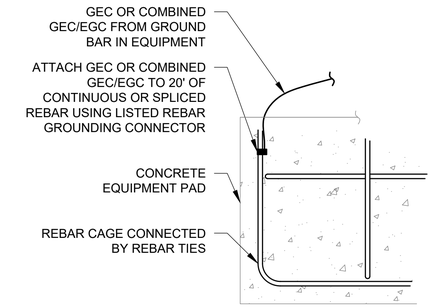
- REFER TO ONE-LINE DIAGRAM FOR SPECIFIC CIRCUIT IDENTIFIERS BETWEEN EQUIPMENT.
- REFER TO AC & DC CIRCUIT SCHEDULES FOR NEUTRAL/GROUND SIZING PER CIRCUIT.

LEGEND

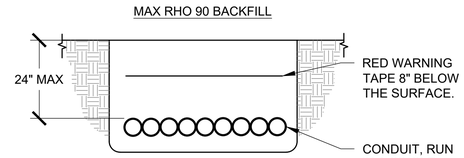
- [N] NEUTRAL BUSBAR
- [G] GROUND BUSBAR
- PRIMARY OR SECONDARY COMMON TERMINAL, AS APPLICABLE
- TERMINAL ON NEUTRAL OR GROUND BUSBAR
- IRREVERSIBLE SPLICE OR CRIMP PER NEC 250.64(C)
- NEC 250.52(A)-COMPLIANT GROUNDING ELECTRODE



E GROUNDING DIAGRAM
E501.1208 GROUNDING DIAGRAM RA

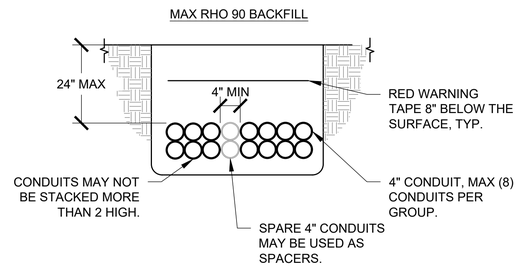


D CONCRETE-ENCASED ELECTRODE FOR CAST-IN-PLACE PADS ONLY
E501.100 REBAR UFER GROUNDING DETAIL RC
NTS



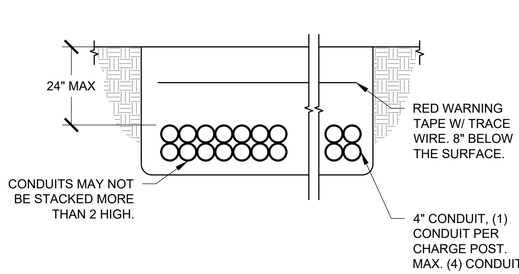
DC-BUS

B "DC-BUS" CIRCUITS TRENCH - MAX RHO 90
E501.1221 DC-BUS CIRCUITS TRENCH - MAX RHO 90 RA
NTS



AC-SPR

C "AC-SPR" CIRCUIT TRENCH
E501.1223 SPR-# CIRCUIT TRENCH - MAX RHO 90 RA
NTS



DC-POST

A "DC-POST" CIRCUIT TRENCH - MAX RHO 100
E511.12X DC TRENCH - PAVEMENT TRAFFIC DETAIL RA
NTS

TESLA
3500 DEER CREEK RD.
PALO ALTO, CA 94304
(650) 681-5000

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

0 ½" 1"

REGISTERED PROFESSIONAL ENGINEER
JARED MARCHAND
E23862
ELECTRICAL
STATE OF CALIFORNIA

2/27/2023

TESLA SUPERCHARGER_ENCINITAS, CA
8 SUPERCHARGERS

1302 ENCINITAS BLVD - SUITE EV,
ENCINITAS, CA 92024, US

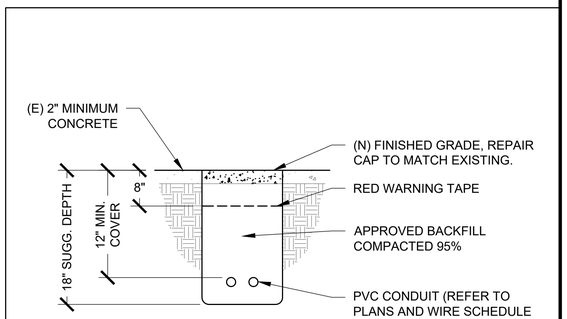
NO.	REVISION	DATE
A	AHJ COMMENTS	02/05/2023
B	AHJ COMMENTS	02/27/2023

ELECTRICAL DETAILS

E-501

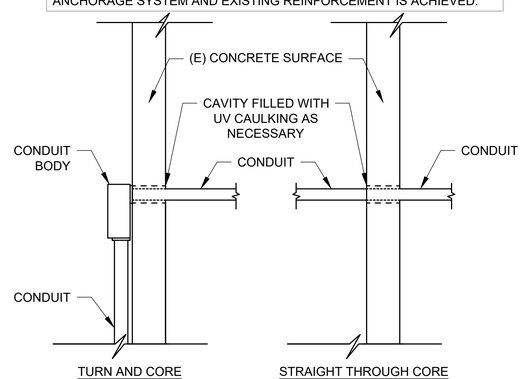
JB-92025611-00

REV: B | IFP



B **TRENCH THROUGH PAVEMENT NON-TRAFFIC**
ES11.122 TRENCH - PAVEMENT NON-TRAFFIC DETAIL RB
NTS

NOTE: CONTRACTOR SHALL VERIFY POST TENSIONING LOCATION AND REINFORCEMENT LOCATION IN EXISTING CONCRETE SLAB/WALL PRIOR TO INSTALLATION OF CONDUIT CORES AND ENSURE PROPER CLEARANCE (REINFORCEMENT DIAMETER MINIMUM) BETWEEN ANCHORAGE SYSTEM AND EXISTING REINFORCEMENT IS ACHIEVED.



A **CONDUIT THROUGH CONCRETE WALL / FLOOR DETAIL**
ES11.112 CONDUIT THROUGH WALL WITH PULLBOX DETAIL RA
NTS

TESLA

3500 DEER CREEK RD.
PALO ALTO, CA 94304
(650) 681-5000

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

0 ½" 1"

REGISTERED PROFESSIONAL ENGINEER
JARED MARCHAND
E23862
ELECTRICAL
STATE OF CALIFORNIA

2/27/2023

TESLA SUPERCHARGER_ENCINITAS, CA
8 SUPERCHARGERS
1302 ENCINITAS BLVD - SUITE EV,
ENCINITAS, CA 92024, US

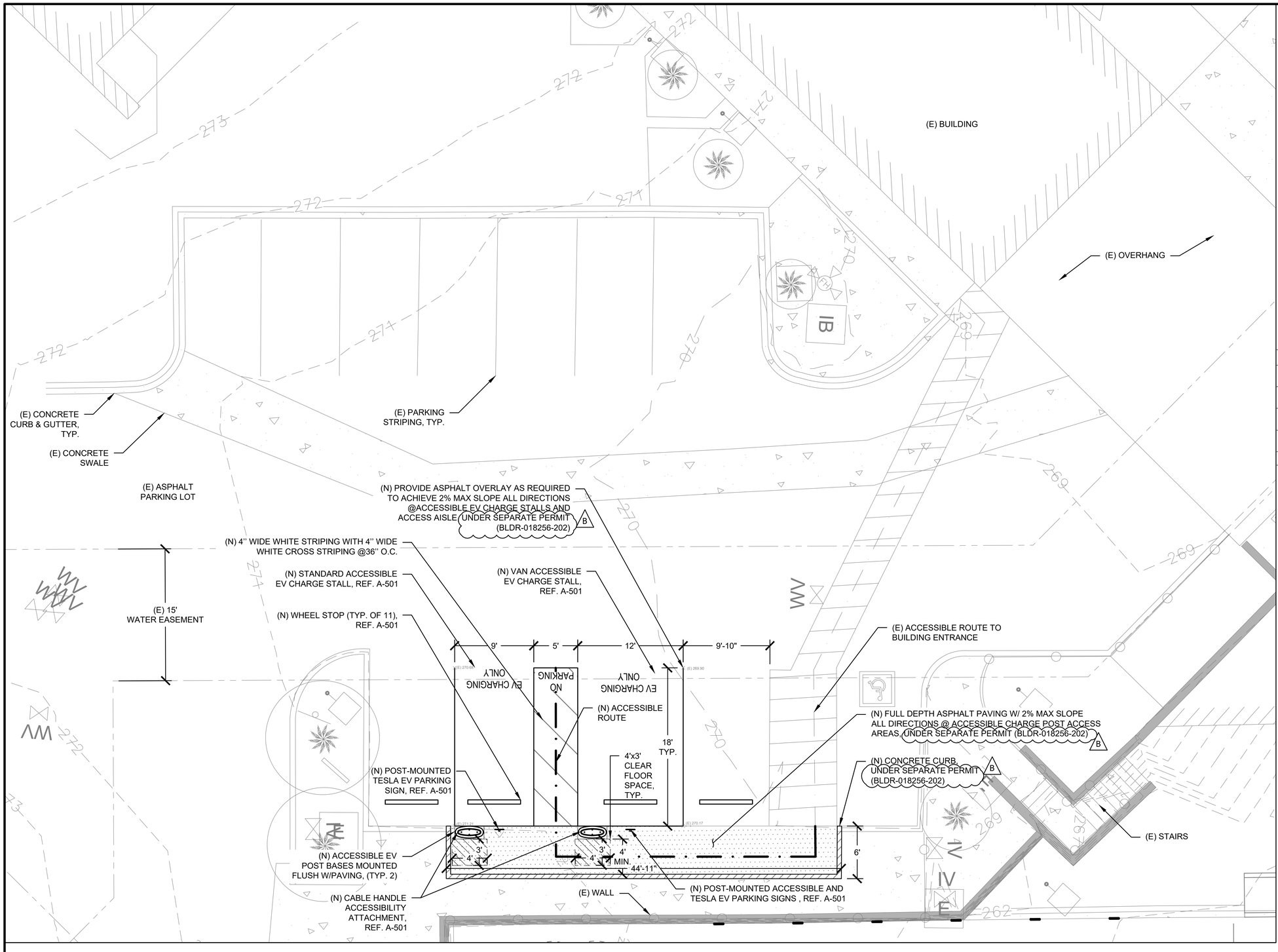
NO.	REVISION	DATE
A	AHJ COMMENTS	02/05/2023
B	AHJ COMMENTS	02/27/2023

ELECTRICAL DETAILS

E-502

JB-92025611-00

REV: B | IFP



ACCESSIBLE PARKING PLAN
3/16" = 1'-0"

0 1' 4' 8' 12'

SITE LEGEND

- (N) SUPERCHARGER POST
- (N) SIGN
- (N) CONCRETE CURB
- (N) FULL DEPTH ASPHALT
- SPOT ELEVATION
- (E) XX.XX EXISTING ELEVATION

EV CHARGE STALL SCHEDULE

EV CHARGE STALLS PROPOSED			8
ADA EV STALL TYPE	CAR	VAN	AMBULATORY
STALLS REQUIRED	1	1	0
STALLS PROPOSED	1	1	0

BASED ON CBC TABLE 11B-228.3.2.1

NOTES

CODE COMPLIANCE:
ALL WORK SHALL BE INSTALLED IN COMPLIANCE WITH CALIFORNIA BUILDING CODE. APPLICABLE CODE ARE AS STATED.

ACCESSIBLE STALLS	
STANDARD:	11B-812.6.2
VAN:	11B-812.6.1
AMBULATORY:	11B-812.6.3
ACCESS AISLE:	11B-812.7
ACCESSIBLE ROUTE:	11B-812.5
ISA SIGNAGE:	11B-812.8
ADA SURFACE MARKINGS:	11B-812.9

TESLA
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PALO ALTO, CA 94304
(650) 681-5000

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

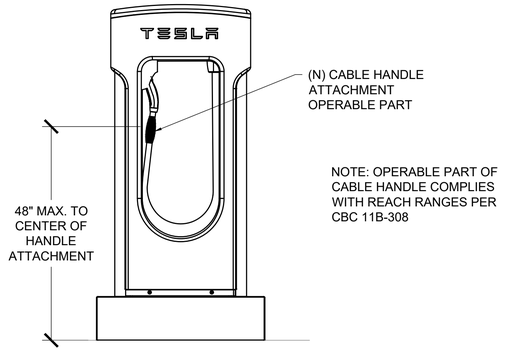
0 ½" 1"

LICENSED ARCHITECT
CHRISTOPHER T. MATESICH
C-32449
REN. 05/31/23
STATE OF CALIFORNIA
Signed Date: 02/28/23

TESLA SUPERCHARGER_ENCINITAS, CA
8 SUPERCHARGERS
1302 ENCINITAS BLVD - SUITE EV, ENCINITAS, CA 92024, US

NO.	REVISION	DATE
A	AHJ COMMENTS	02/05/2023
B	AHJ COMMENTS	02/27/2023

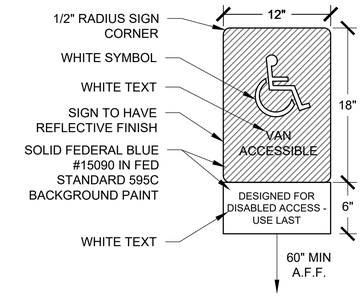
ACCESSIBLE PARKING PLAN
A-301
JB-92025611-00
REV: B | IFP



E CABLE HANDLE ACCESSIBILITY ATTACHMENT DETAIL
A501.1117 CABLE HANDLE ACCESSIBILITY RA
NTS

MOUNTING OPTIONS:
1. SIGN CAN BE INSTALLED ON WALL USING ANCHOR SYSTEM MATCHING WALL TYPE.
2. SIGN CAN BE POLE MOUNTED PER SPECIFICATIONS IN POLE MOUNTED SIGN DETAILS.

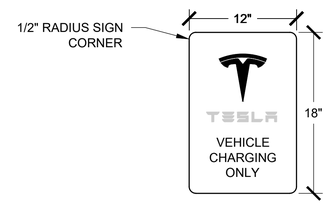
SIGN MATERIAL: ALUMINUM



B TESLA EV STALL PARKING SIGN - VAN ACCESSIBLE
A501.1110 TESLA EV STALL PARKING SIGN - VAN ACCESSIBLE RA
NTS

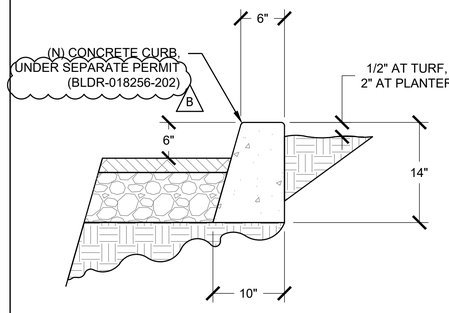
MOUNTING OPTIONS:
1. SIGN CAN BE INSTALLED ON WALL USING ANCHOR SYSTEM MATCHING WALL TYPE.
2. SIGN CAN BE POLE MOUNTED PER SPECIFICATIONS IN POLE MOUNTED SIGN DETAILS.

SIGN MATERIAL: ALUMINUM

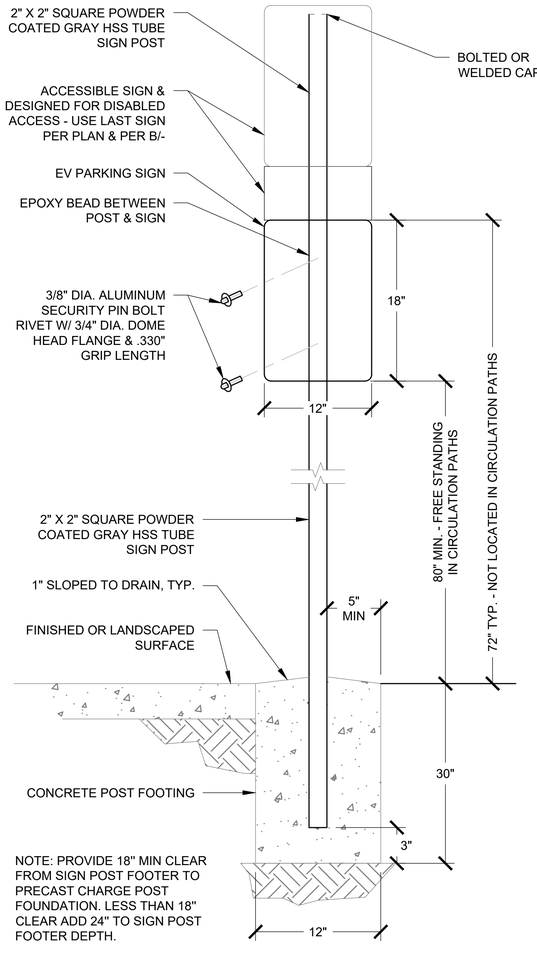


G WALL-MOUNTED TESLA EV STALL PARKING SIGN
A501.1116 TESLA EV CHARGER SIGN DETAIL RD
NTS

STEEL TROWEL FINISH CONC. CURB W/ 1/2" ROUNDED EDGES (PROVIDE EXPANSION JOINT AT 45'-0" O.C. MAX. - TOOLED JOINTS AT 15'-0" O.C. MAX.)

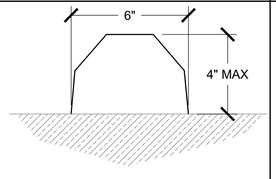


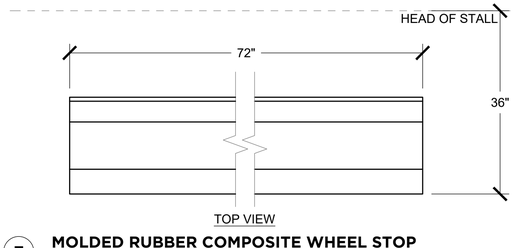
D CONCRETE CURB
A501.1109 CONCRETE CURB DETAIL RA
NTS



A POST MOUNTED EV SIGN
A501.1105 POLE MOUNTED ACCESSIBLE EV SIGN DETAIL RB
NTS

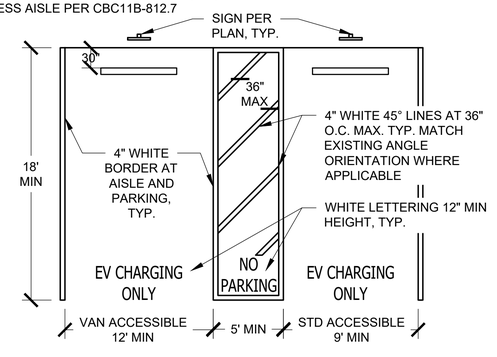
NOTES:
1. MATERIAL COMPRESSION MOLDED RUBBER COMPOSITE
2. NOMINAL DIMENSIONS 72"L X 6"W X 4"H
3. NOMINAL WEIGHT: 34 LBS
4. COLOR: BLACK WITH REFLECTIVE WHITE STRIPES.
5. LOCATE EXISTING REBAR PRIOR TO ANCHORING EQUIPMENT. ENSURE 1" GAP BETWEEN EXISTING REBAR AND ANCHOR ROD. CUTTING OR DAMAGING EXISTING REBAR IS PROHIBITED.
6. (4)5/8" MOUNTING HOLES SPACED 20-5/8" APART





F MOLDED RUBBER COMPOSITE WHEEL STOP
A501.1112 MOLDED RUBBER COMPOSITE WHEEL STOP RA
NTS

CODE COMPLIANCE:
STALL SPECIFICATIONS PER CBC 11B-812.6
SURFACE MARKINGS PER CBC 11B-812.9
ACCESS AISLE PER CBC11B-812.7



NOTES:
MAX.SLOPE 2% AT STALL AND AISLE IN ALL DIRECTIONS,TYP.
ALL DIMS ARE TO CENTERLINE OF STRIPING

C EV CHARGE ACCESSIBLE STALLS - VAN & STANDARD
A501.1114 EV CHARGE ACCESSIBLE STALLS - VAN & STANDARD RA
NTS

TESLA

3500 DEER CREEK RD.
PALO ALTO, CA 94304
(650) 681-5000

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

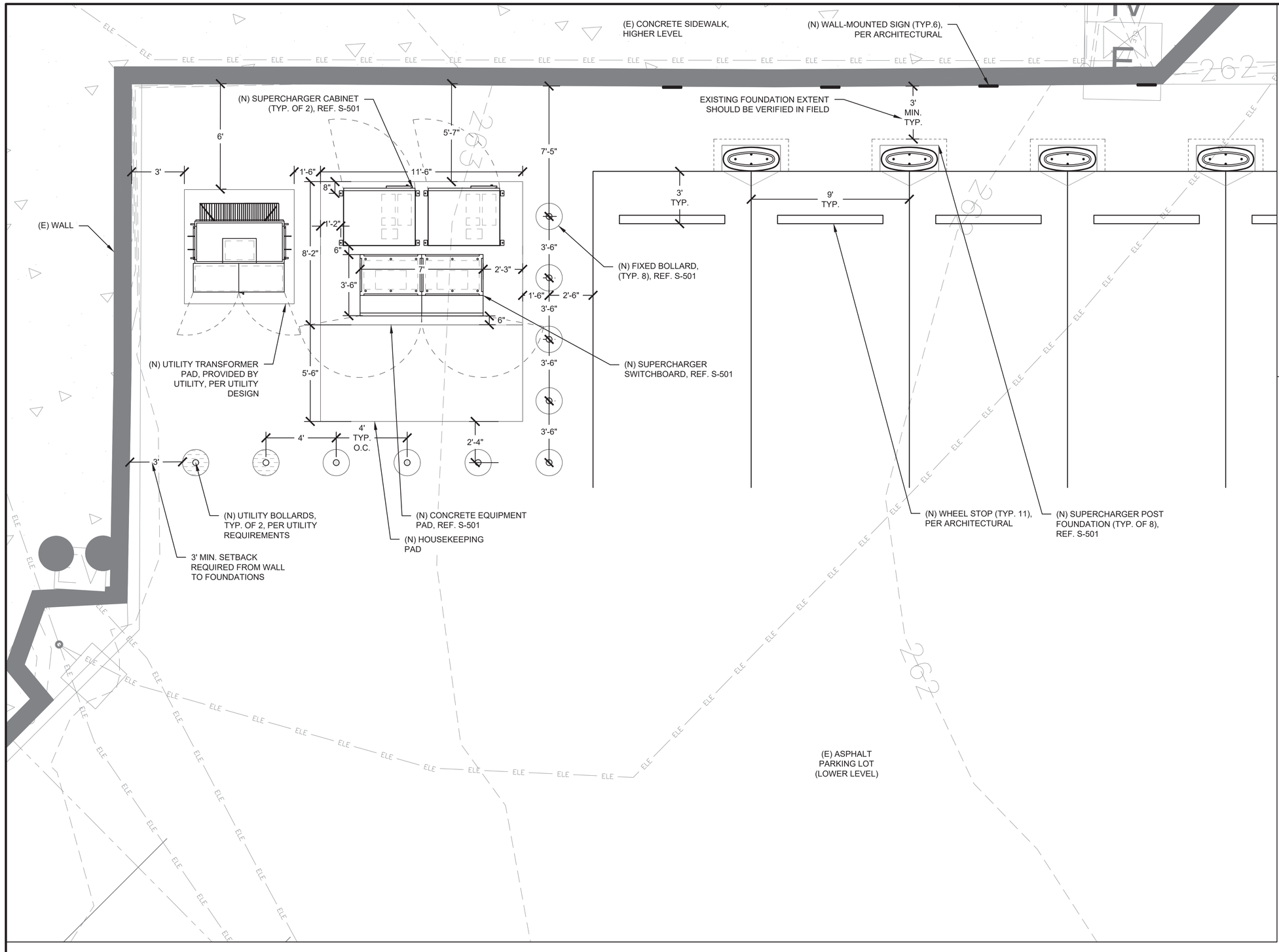
0 ½" 1"

LICENSED ARCHITECT CHRISTOPHER T. MARSEN C-32449 REN. 05/31/23 STATE OF CALIFORNIA
Signed Date: 02/28/23

TESLA SUPERCHARGER_ENCINITAS, CA
8 SUPERCHARGERS
1302 ENCINITAS BLVD - SUITE EV, ENCINITAS, CA 92024, US4

NO.	REVISION	DATE
A	AHJ COMMENTS	02/05/2023
B	AHJ COMMENTS	02/27/2023

DETAILS
A-501
JB-92025611-00
REV: B | IFP



ENLARGED STRUCTURAL SITE PLAN

3/8" = 1'-0"

0 1' 2' 4' 5'

SITE LEGEND

- (N) SUPERCHARGER POST
- (N) SIGN
- (N) FIXED BOLLARD
- (N) UTILITY BOLLARD

STRUCTURAL DESIGN CRITERIA:

DESIGN CODE: A

- 2022 CBC

DESIGN CRITERIA:

1. WIND DESIGN
   - DESIGN WIND SPEED = 96 MPH (ULTIMATE)
   - RISK CATEGORY = II
   - WIND EXPOSURE = C
2. SEISMIC DESIGN
   - RISK CATEGORY = II
   - SEISMIC IMPORTANCE FACTOR = 1.0
   - SITE CLASS = D
   - Ss = 1.091 / S1 = 0.391
   - Sds = 0.872 / Sd1 = 0.508
   - SEISMIC DESIGN CATEGORY = D
   - BASIC SEISMIC-FORCE-RESISTING SYSTEM = NON-STRUCTURAL COMPONENT
   - R = 2.5 / a_p = 1.0
3. GEOTECHNICAL INFORMATION
   - ALLOWABLE BEARING PRESSURE = 1,500 PSF USED FOR EQUIPMENT FOUNDATION
4. SNOW LOAD
   - GROUND SNOW LOAD = 0 PSF

NOTES:

1. PAD EXTENTS AND FOOTING TO BE CONFIRMED BY CONTRACTOR PRIOR TO CONSTRUCTION.
2. SWITCHBOARD DIMENSIONS AND ANCHOR LOCATIONS ARE LIABLE TO CHANGE. CONTRACTOR TO VERIFY AGAINST VENDOR FINAL SHOP DRAWINGS.
3. UTILITY EQUIPMENT/FOUNDATION DIMENSIONS AND LOCATIONS PER UTILITY. CONTRACTOR TO VERIFY AGAINST EXECUTED UTILITY DESIGN.
4. UTILITY BOLLARDS PER UTILITY REQUIREMENTS. CONTRACTOR TO VERIFY AND COORDINATE WITH UTILITY ON LOCATION, QUANTITY, AND SPECS.

TESLA
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PALO ALTO, CA 94304
(650) 681-5000

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

0 ½" 1"

REGISTERED PROFESSIONAL ENGINEER
YOO JIN KIM
S 5771
STRUCTURAL
STATE OF CALIFORNIA

Yoo Jin Kim
Digitally signed by Yoo Jin Kim
Date: 2023.02.02 15:52:01 -08'00'

TESLA SUPERCHARGER_ENCINITAS, CA
8 SUPERCHARGERS
1302 ENCINITAS BLVD - SUITE EV, A
ENCINITAS, CA 92024, US

NO.	REVISION	DATE

ENLARGED SITE PLAN

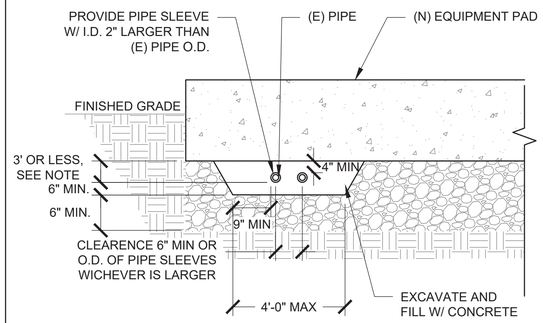
S-301

JB-92025611-00

REV: A | IFP

PLOT DATE: 2/1/2023 1:51 PM IPEREZCARREON

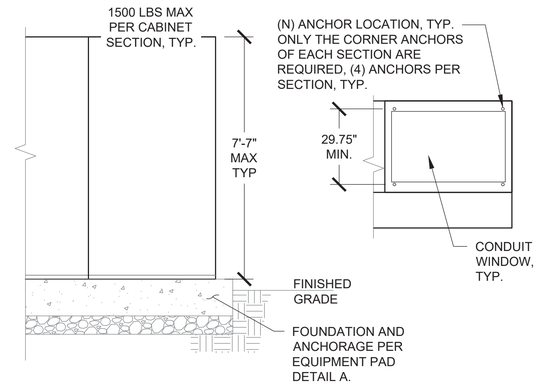
NOTE: FOR PIPES MORE THAN 3'-0" BELOW CONCRETE PAD USE 90% COMPACTED BACKFILL.



NOTE: SEE DETAIL E/- FOR DEFINITION OF WHEN UTILITY PIPES ARE BEING SURCHARGED BY EQUIPMENT PAD.

F **UTILITY PIPES UNDER OR BEING SURCHARGED BY EQUIPMENT PAD**
5501.1371 PIPE UTILITIES UNDER EQUIPMENT PAD RA
NTS

SWITCHBOARD CABINET DESIGN TO BE VERIFIED AGAINST VENDOR DRAWINGS



D **SWITCHBOARD**
5501.1333 SIMPLIFIED SWITCHBOARD DETAIL RA
NTS

CONCRETE DESIGN

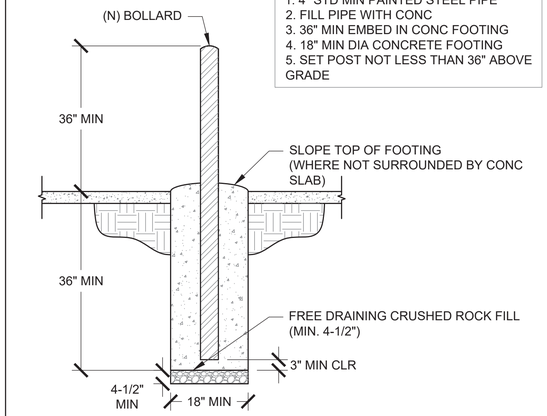
1. ALL CONCRETE SHALL CONFORM TO THE LATEST EDITION OF THE ACI.
2. CONCRETE SHALL BE NORMAL WEIGHT AND SHALL HAVE 2,500 PSI STRENGTH AT 28 DAYS.
3. REINFORCED CONCRETE IN THE FOUNDATION SHALL BE OF NATURAL AGGREGATE CONFORMING TO ASTM C-33.
4. TYPE I/II CEMENT TO MEET ASTM C150.
5. REINFORCING STEEL - ASTM A615 WITH THE FOLLOWING STRENGTHS:

SIZE	STRENGTH:
#4 AND SMALLER	GRADE 60 (fy = 60000 PSI)
#5 AND LARGER	GRADE 60 (fy = 60000 PSI)

6. FABRICATE AND PLACE REINFORCEMENT IN ACCORDANCE WITH ACI PUBLICATION SP-66, ACI DETAILING MANUAL - LATEST EDITION.
7. PLACE CONCRETE IN COMPLIANCE WITH ACI 304. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED.
8. CONFORM TO ASTM C-94 FOR CONCRETE MIXING OPERATIONS.
9. CONCRETE COVER FOR REINFORCEMENT FOR NON-PRESTRESSED, CAST IN PLACE CONCRETE SHALL BE AS FOLLOWS:

CONDITION	COVER
CAST AGAINST EARTH	3"
EXPOSED TO WEATHER	
#5 AND SMALLER	1-1/2"
#6 AND LARGER	2"
SLAB-ON-GRADE	2"

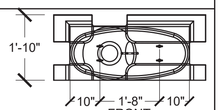
10. EMBEDS -ALL ITEMS TO BE CAST INTO CONCRETE SUCH AS REINFORCING DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE SECURELY AND ACCURATELY POSITIONED INTO THE FORMS PRIOR TO PLACING THE CONCRETE.
11. ALL CONCRETE EXPOSED TO THE WEATHER TO BE AIR ENTRAINED AND SHALL CONFORM TO ASTM C-260.
12. PROVIDE CONTINUOUS REINFORCING BARS UNLESS WHERE SPLICES ARE SPECIFICALLY SHOWN ON THE DRAWINGS.
13. CALCIUM CHLORIDE ADMIXTURES OR ADMIXTURES CONTAINING CHLORIDE SALTS SHALL NOT BE ADDED TO THE CONCRETE.



NOTES
1. 4" STD MIN PAINTED STEEL PIPE
2. FILL PIPE WITH CONC
3. 36" MIN EMBED IN CONC FOOTING
4. 18" MIN DIA CONCRETE FOOTING
5. SET POST NOT LESS THAN 36" ABOVE GRADE

E **FIXED BOLLARD DETAIL**
5501.1315 PIPE BOLLARD DETAIL INSTALLATION DETAIL MASTER RA
NTS

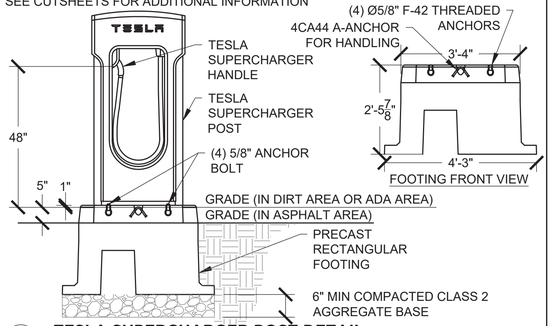
PRECAST FOOTING REINFORCED WITH STRUCTURAL FIBER
VOLUME: 0.31 CU YDS
WEIGHT: 1,242 LBS



FOOTING TOP VIEW

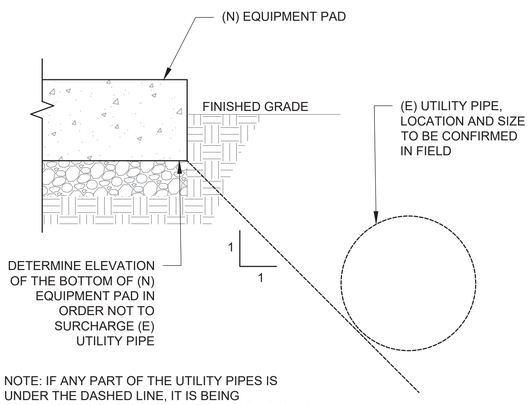
54" MAX HEIGHT OF SUPERCHARGER HANDLE AT ACCESSIBLE CHARGE POSTS FROM SURFACE OF VEHICULAR WAY WHEN INSTALLED ON EXISTING CURBS.

SEE CUTSHEETS FOR ADDITIONAL INFORMATION



FOOTING FRONT VIEW

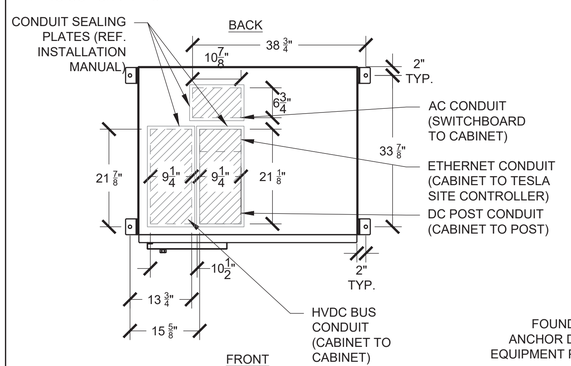
C **TESLA SUPERCHARGER POST DETAIL**
5501.1333 SUPERCHARGER 120KW POST ON PRECAST FOOTING DETAIL RA
1/2" = 1'-0"



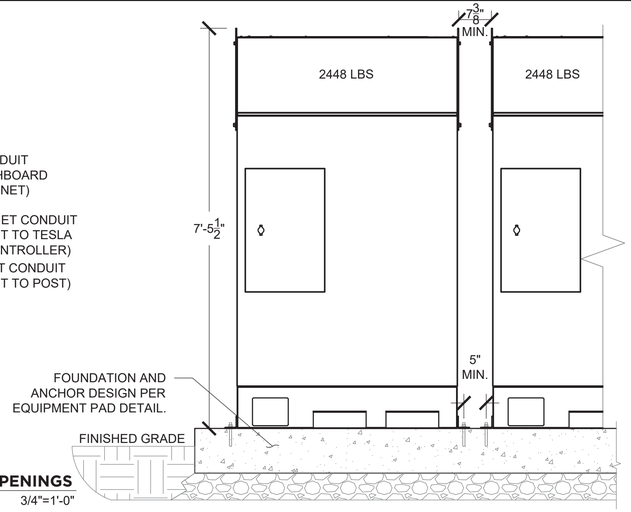
NOTE: IF ANY PART OF THE UTILITY PIPES IS UNDER THE DASHED LINE, IT IS BEING SURCHARGED BY EQUIPMENT PAD, USE DETAIL D/-

G **PIPE UTILITIES ADJACENT TO EQUIPMENT PAD**
5501.1370 PIPE UTILITIES ADJACENT TO EQUIPMENT PAD RA
NTS

CONTRACTOR TO OBTAIN CONDUIT WINDOW TEMPLATE PRIOR TO COMMENCING CONSTRUCTION AND UTILIZE TEMPLATE WHEN LAYING OUT CABINETS

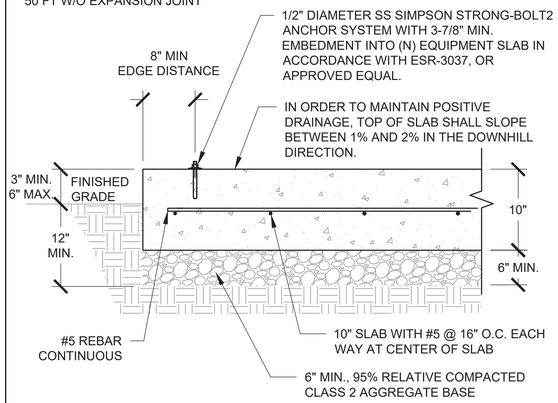


FRONT



B **V3 SUPERCHARGER CABINET FRONT & CONDUIT OPENINGS**
5501.1331 V3 SUPERCHARGER CABINET PLINTH DETAIL-ISO-ALL VIEWS RA
3/4"=1'-0"

NOTE: MAX. CONTINUOUS SLAB LENGTH SHOULD NOT EXCEED 50 FT W/O EXPANSION JOINT



A **EQUIPMENT PAD & ANCHOR SECTION**
5511.107 FLAT EQUIPMENT PAD & ANCHOR SECTION RX
NTS

TESLA
3500 DEER CREEK RD.
PALO ALTO, CA 94304
(650) 681-5000

ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

0 1/2" 1"

REGISTERED PROFESSIONAL ENGINEER
YOO JIN KIM
S 5771
STRUCTURAL
STATE OF CALIFORNIA

Yoo Jin Kim
Digitally signed by Yoo Jin Kim
Date: 2023.02.02 15:52:09 -08'00'

TESLA SUPERCHARGER_ENCINITAS, CA
8 SUPERCHARGERS
1302 ENCINITAS BLVD - SUITE EV, ENCINITAS, CA 92024, US

NO.	REVISION	DATE
A		

STRUCTURAL DETAILS

S-501

JB-92025611-00

REV: A | IFP

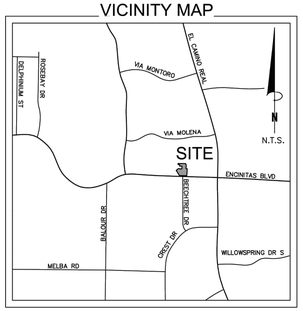
LEGEND

- SITE BENCHMARK
- SANITARY CLEANOUT
- FIRE HYDRANT
- IRRIGATION CONTROL VALVE
- LIGHT POLE
- ELECTRIC TRANSFORMER
- ELECTRIC PULLBOX
- ELECTRIC CABINET
- ELECTRIC VAULT
- ELECTRIC VEHICLE CHARGING STATION
- TELEPHONE VAULT
- TELEPHONE PEDESTAL
- GAS VAULT
- HANDICAP PARKING
- PALM TREE WITH DRIPLINES
- LANDSCAPED AREA
- BOLLARD
- SIGN
- WATER LINE (UNDERGROUND)
- GAS LINE (UNDERGROUND)
- ELECTRIC LINE (UNDERGROUND)
- TELEPHONE LINE (UNDERGROUND)
- CHAIN LINK FENCE
- IRON FENCE
- HAND RAIL
- CONCRETE AREA
- EXCEPTION NUMBER
- AREA OF CONCERN

N

FOR REFERENCE ONLY
NOT TO SCALE

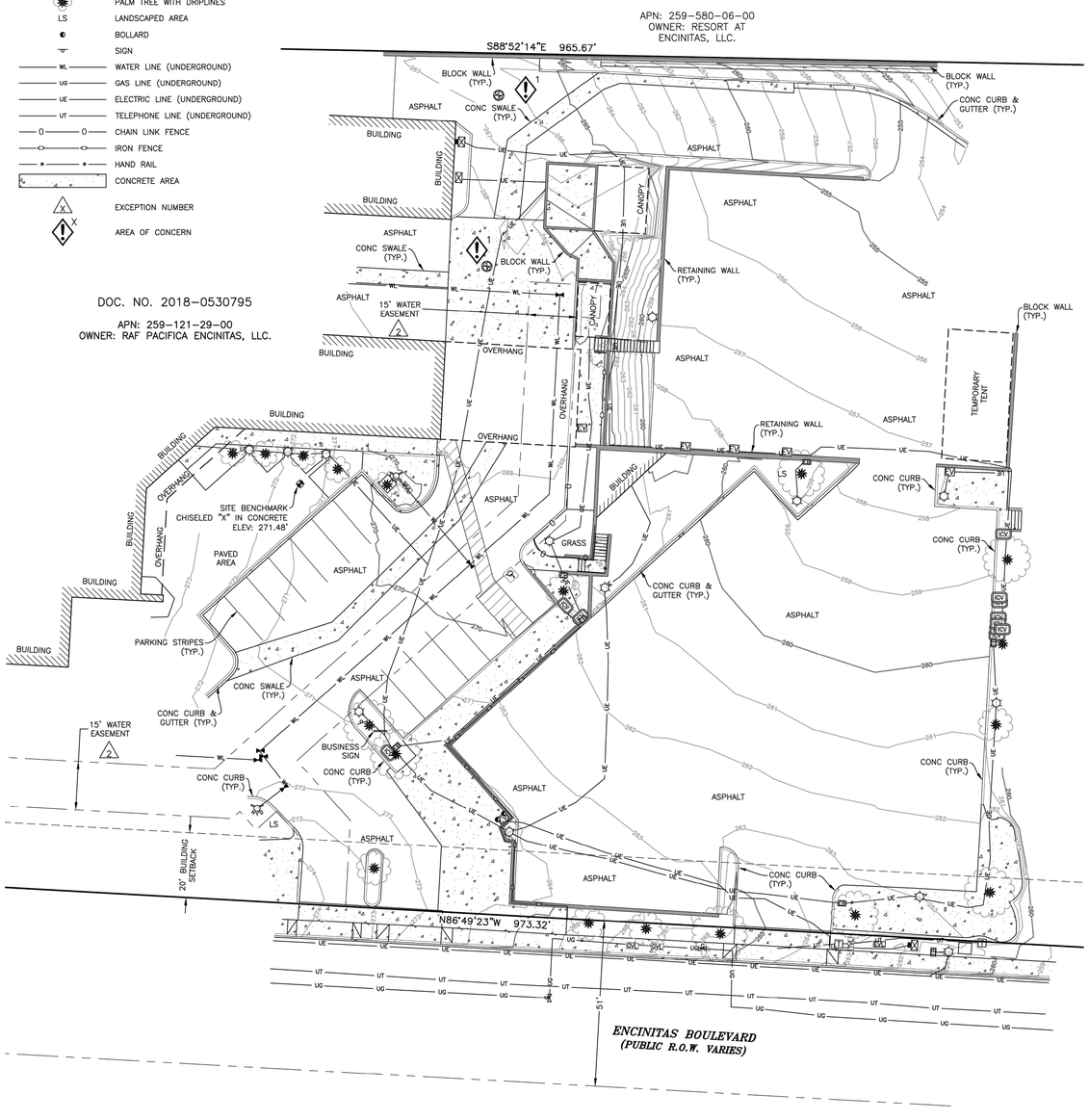
VICINITY MAP



DOC. NO. 2018–0530795

APN: 259–121–29–00
OWNER: RAF PACIFICA ENCINITAS, LLC.

APN: 259–580–06–00
OWNER: RESORT AT
ENCINITAS, LLC.



LEGAL DESCRIPTION:

THAT PARCEL AS DESCRIBED IN THE GRANT DEED RECORDED ON DECEMBER 28, 2018, UNDER DOCUMENT NUMBER 2018–0530795 OF THE OFFICIAL RECORDS OF SAN DIEGO COUNTY, STATE OF CALIFORNIA.

SCHEDULE B2 EXCEPTIONS:

Item No.

1. Reciprocal Easement & Holdharmless Agreement 04/24/1981 Document No. 81–125259 –IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.
2. Deed 06/26/1981 Document No. 81–201719 –IS LOCATED ON THE SURVEY AREA, AS SHOWN HEREON.
3. Easement 10/15/1981 Document No. 81–326904 –IS LOCATED ON THE SURVEY AREA, NO MATHEMATICAL DESCRIPTION AVAILABLE. SAN DIEGO GAS AND ELECTRIC COMPANY OWNED FACILITIES HAVE A 6' WIDE EASEMENT LYING 3' ON EITHER SIDE OF THE INSTALLED UTILITIES. OWNERSHIP OF UTILITIES SHOWN HEREON ARE UNKNOWN.
4. Grant of Easement 02/10/1982 Document No. 82–037517 –IS NOT LOCATED ON THE SURVEY AREA.
5. Easement for County Highway 02/21/1964 Document No. 33167 –IS NOT LOCATED ON THE SURVEY AREA, NOW A PART OF ENCINITAS BOULEVARD.
6. Right of Way 01/04/1980 Document No. 80–03841 –IS NOT LOCATED ON THE SURVEY AREA.
7. Easement for County Highway 03/12/1981 Document No. 81–076111 –IS NOT LOCATED ON THE SURVEY AREA, NOW A PART OF ENCINITAS BOULEVARD.
8. Grant Deed 06/17/1968 Document No. 101352 –IS NOT LOCATED ON THE SURVEY AREA.
9. Certificate of Compliance 01/27/1983 Document No. 83–028901 –IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.
10. Parcel Map No. 11149 04/01/1981 Document No. 81–099871 –IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.

Items not listed above are determined non–survey related items and are not plotted hereon.

NOTES:

1. 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 for graphical reference only.
2. 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. This site was located by standard RF methods.
3. FEDERAL EMERGENCY MANAGEMENT AGENCY, FEMA FIRMette published August 30, 2022, referencing Flood Insurance Rate Map, Map Number 06073C1042H effective date December 20, 2019, indicates this survey area is located in Zone X (Area of minimal flood hazard).
4. 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 Service Report, prepared by First Corporate Solution with an order number of ORD–1074290–F0C3W1, dated August 9, 2022.
5. Elevations are based on NAVD 88 datum.
6. BENCHMARK: Chiseled "X" in concrete, as shown. Elevation: 271.48' (NAVD 88).
7. BASIS OF BEARINGS: Based upon California State Plane Coordinate System, Zone VI, NAD 83.
8. Field work for this survey was completed on August 2, 2022.
9. The owner names and tax parcel data shown hereon are based upon the public records available at the original date of this survey. Current ownership and tax parcel data should be verified for accuracy.
10. This site is zoned "GC" (General Commercial) per City of Encinitas Planning Division.
    Building Setbacks:
    Front: 20', Side (on each interior side): 10', Side (street side): 20' Rear: 0
    No zoning information provided by the client. Any Zoning setbacks shown hereon are the interpretation of the surveyor. For clarification of exact zoning designations and setback locations, please, contact the City of Encinitas Planning Division at (760) 633–2710.

AREAS OF CONCERN:

1. Size, type, invert, location and/or direction of underground sanitary line indeterminate.

Surveyor can revise underground utilities shown hereon; if provided with as–built drawings, or utility maps.

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 California 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.

LICENSED LAND SURVEYOR
MICHAEL E DAUSTER
9047
STATE OF CALIFORNIA

Michael E. Dauster
California Professional Land Surveyor No. 9047
For and on behalf of Clark Land Surveying, Inc.

Clark Land Surveying, Inc
177 S. Tiffany Dr. ● Pueblo West, Co. 81007 ● 719.633.8533
www.clarkls.com

Revisions			
No.	Description	By	Date

SITE NAME:
Encinitas - 1302
Encinitas Blvd

ENGINEERING DESIGN SURVEY

A PORTION OF THE NE1/4 OF SECTION 14,
TOWNSHIP 13 SOUTH, RANGE 4 WEST, SAN BERNARDINO MERIDIAN,
CITY OF ENCINITAS, SAN DIEGO COUNTY, STATE OF CALIFORNIA

Project 221983 | Drawn By: CMP | Date: 9/09/2022