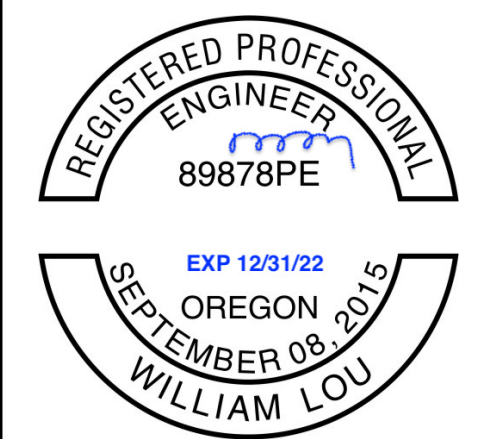
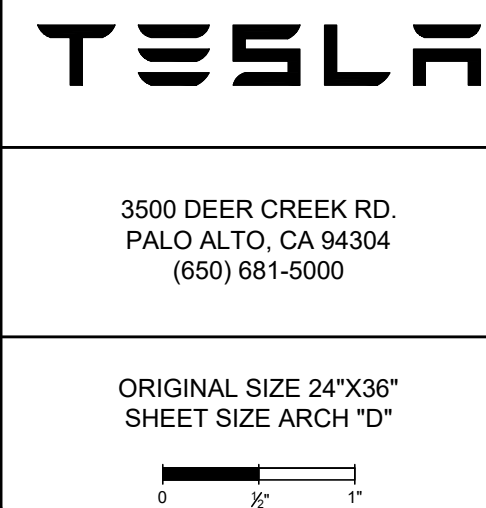


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Date: 2021.05.11
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TESLA SUPERCHARGER_MADRAS, OR
8 SUPERCHARGERS

TESLA SUPERCHARGER_MADRAS, OR
1575 US HIGHWAY 97
MADRAS, OR 97741

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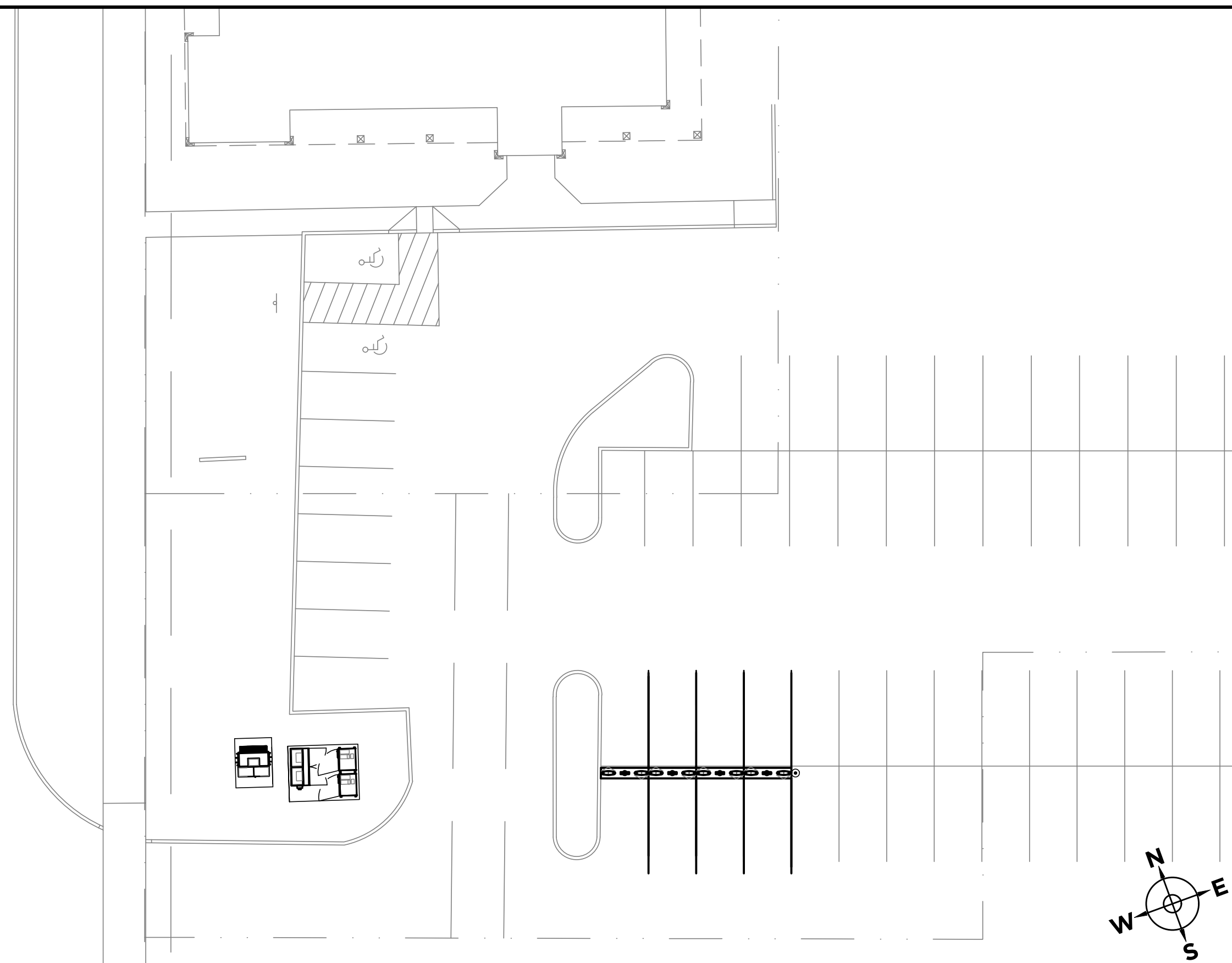
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G-001

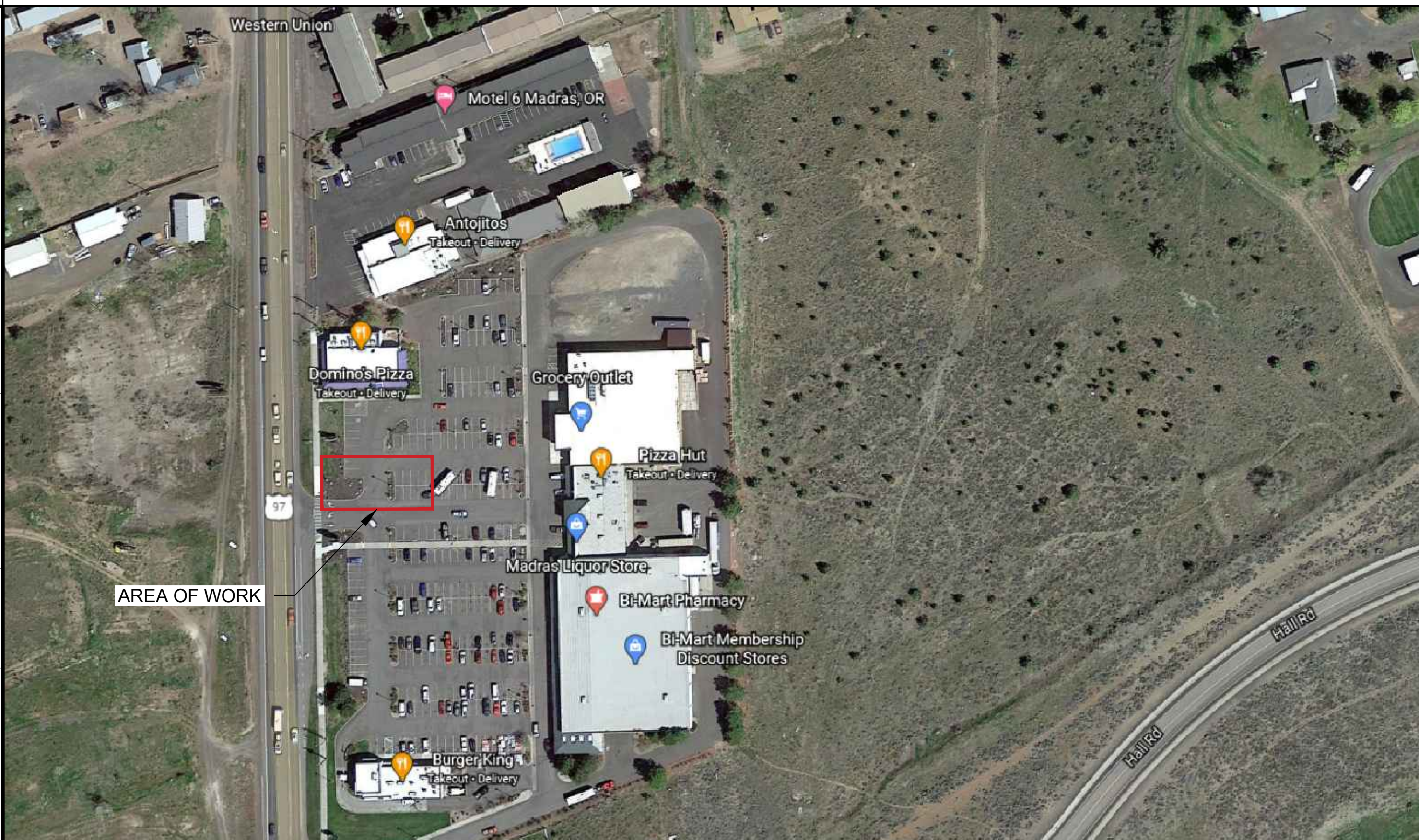
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SITE LAYOUT



AERIAL MAP



ABBREVIATIONS

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

PROJECT TEAM

STRUCTURAL ENGINEER OF RECORD:	ELECTRICAL ENGINEER OF RECORD:
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DESIGN CRITERIA

1. WIND DESIGN
 - DESIGN WIND SPEED = 99 MPH (ULTIMATE)
 - RISK CATEGORY = II
 - WIND EXPOSURE = C
2. SEISMIC DESIGN
 - SITE CLASS = D
 - $S_s = 0.376 / S_1 = 0.188$
 - $S_{ds} = 0.376 / S_{d1} = 0.279$
 - SEISMIC DESIGN CATEGORY = D
 - BASIC SEISMIC-FORCE-RESISTING SYSTEM = NON-STRUCTURAL COMPONENT
 - $R = 2.5 / a_p = 1.0$
3. GROUND SNOW LOAD = 17 psf

APPLICABLE CODES

2019 OREGON STRUCTURAL SPECIALTY
CODE2021 OREGON ELECTRICAL SPECIALTY
CODE

REFERENCED DOCUMENTS

REFERENCES

SUPERCHARGER INSTALLATION MANUAL
SUPERCHARGER POST INSTALLATION

TOPOGRAPHIC SURVEY

UTILITY DESIGN

PROJECT SCOPE

INSTALLATION OF SUPERCHARGERS AND ASSOCIATED AC AND DC EQUIPMENT.

INSTALLATION OF CONCRETE EQUIPMENT PADS.

INSTALLATION OF NEW PARKING STRIPING AND SIGNAGE.

SYSTEM SUMMARY

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

SHEET INDEX

SHEET #	SHEET TITLE
G-001	COVER PAGE
G-002	NOTES
G-101	DEMOLITION PLAN
E-101	ELECTRICAL SITE PLAN
E-201	SINGLE LINE DIAGRAM
E-501	ELECTRICAL DETAILS
S-301	STRUCTURAL SITE PLAN
S-501	STRUCTURAL DETAILS

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 ARTICLE 210.5 OR 215.12, UNLESS OTHERWISE REQUIRED BY ARTICLE 210.5(1) OR AHJ. COLOR-CODING OF POWER CONDUCTORS SHALL BE AS FOLLOWS:

<u>CONDUCTOR</u>	<u>277/480V</u>	<u>120/208V</u>
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:

<u>CONDUCTOR</u>	<u>STD COLOR</u>	<u>ALT COLOR</u>
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.

SUPERCARGER NOTES

3. 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. THE ABOVEGROUND PORTION OF AN UNDERGROUND/ABOVEGROUND TRANSITION SHALL BE SCHEDULE 80 PVC.
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

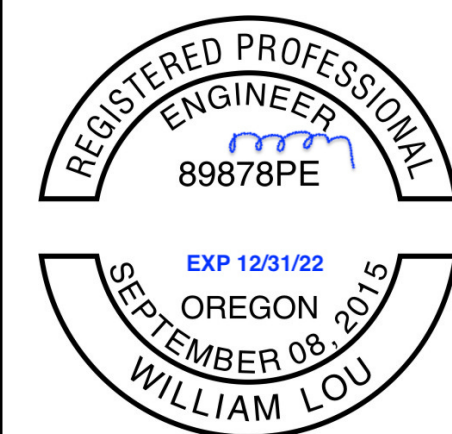
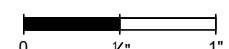
SITE LEGEND

	SURVEY CONTROL
	IRON ROD
	MAG NAIL
	BRASS DISK
	LIGHT POLE — SINGLE
	ELECTRIC METER
	WATER METER
	ELECTRIC JUNCTION BOX
	TELEPHONE JUNCTION BOX
	GUY WIRE — ELECTRIC
	UTILITY POLE — ELECTRIC
	SANITARY SEWER
	FIB — UNDERGROUND COMMUNICATION LINE
	OHW — OVERHEAD ELECTRIC LINE
	ELE — UNDERGROUND ELECTRIC LINE
	GAS — UNDERGROUND GAS LINE
	WL — UNDERGROUND WATER LINE



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PALO ALTO, CA 94304
(650) 681-5000

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



TESLA SUPERCHARGER_MADRAS, OR

8 SUPERCHARGERS

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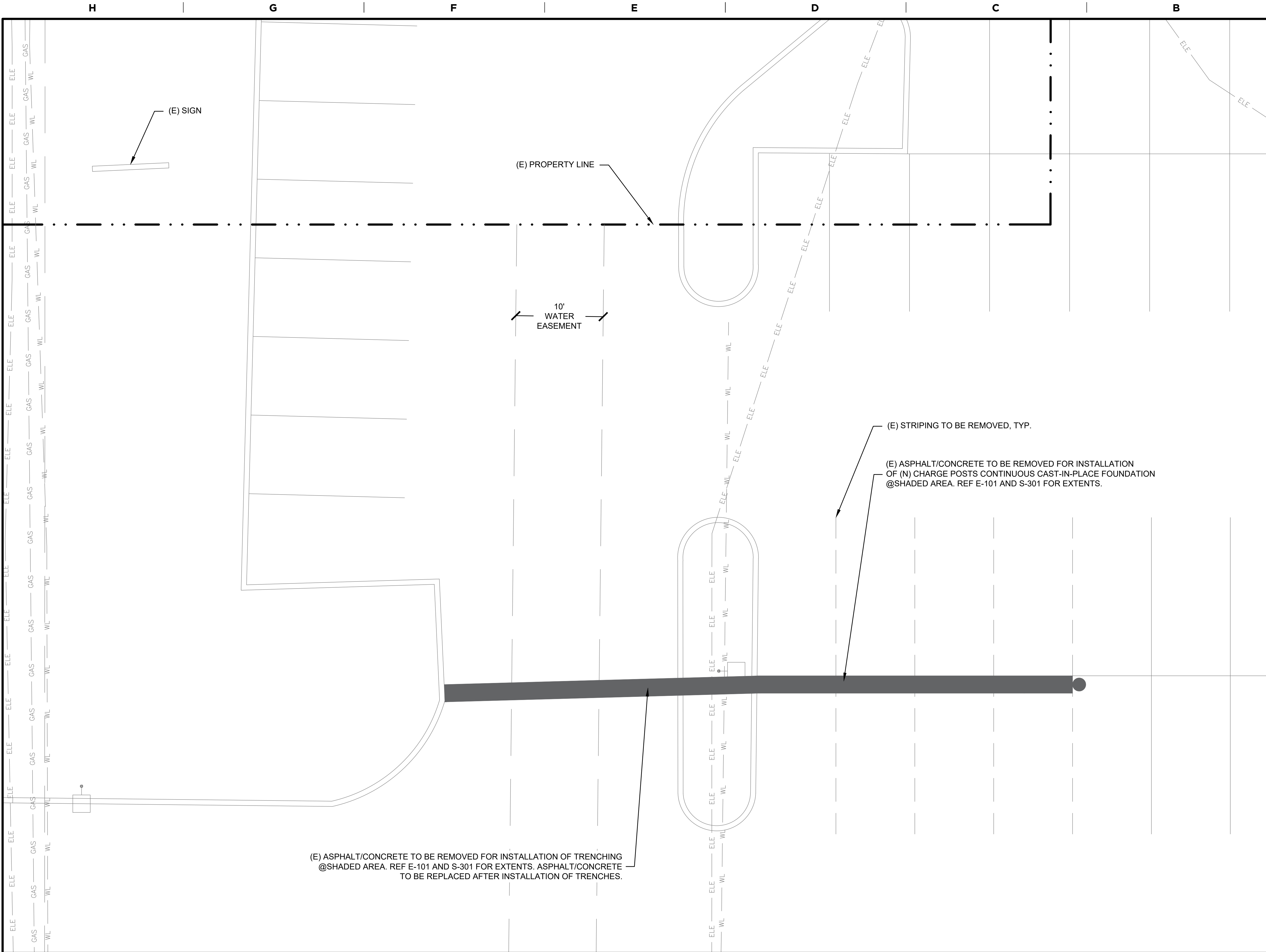
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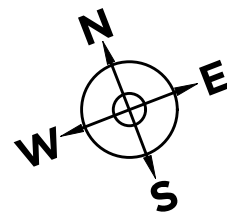
THE CONTRACTOR SHALL REFER TO THE TRENCHING DETAILS ON THE ELECTRICAL DETAILS SHEET.

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

SITE LEGEND

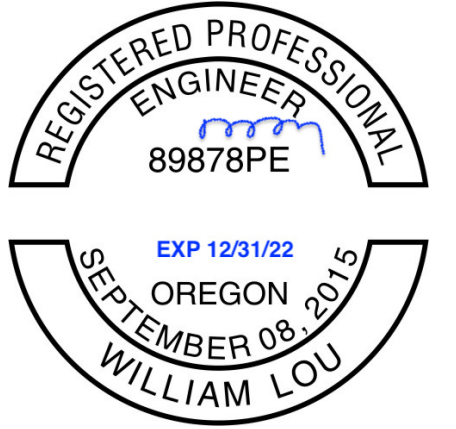
- ANY (E) ELEMENT TO BE REMOVED
- HARDCAPED AREA TO BE MODIFIED

DEMOLITION PLAN



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NO.	REVISION	DATE

DEMO PLAN

G-101

JB-977358-00

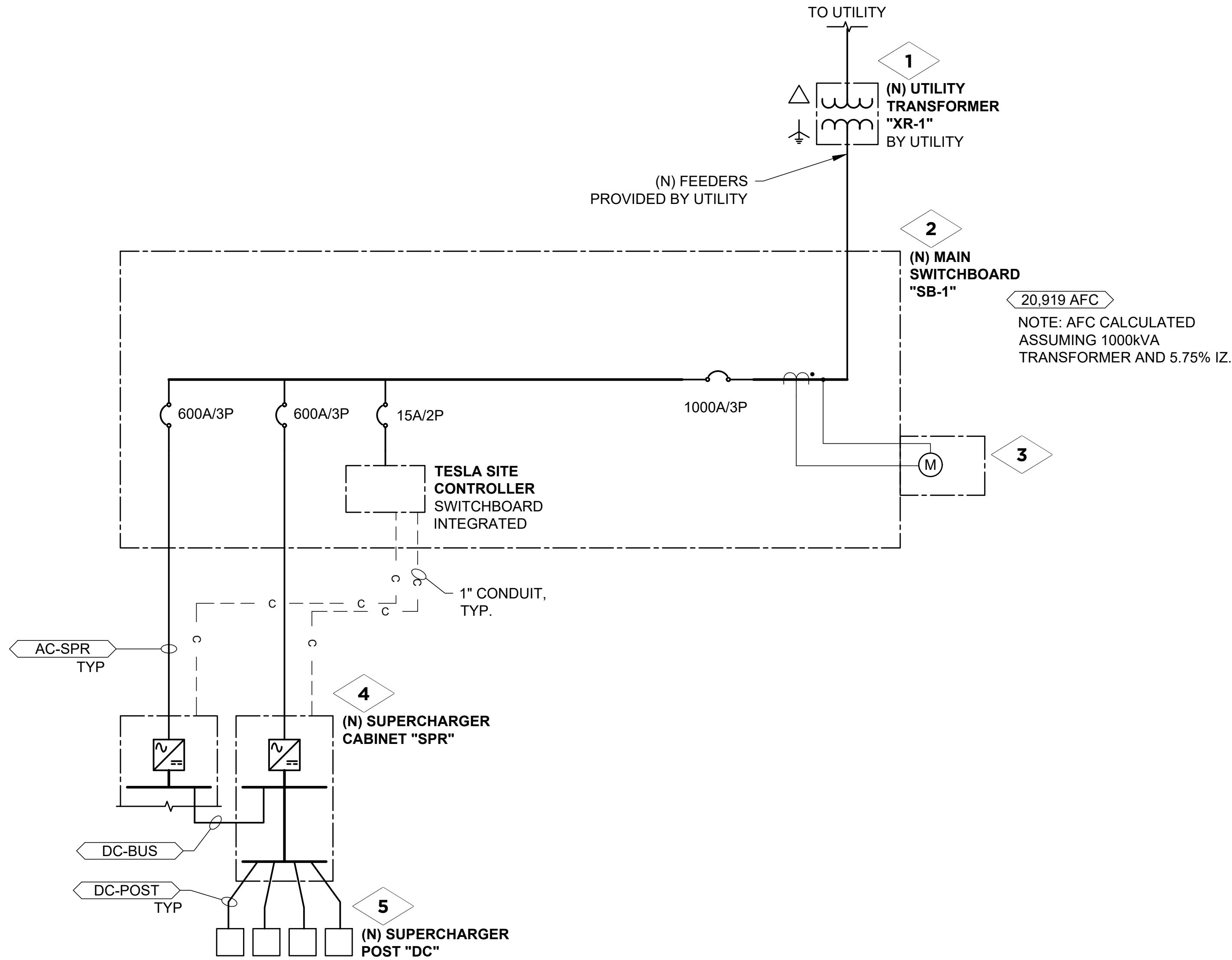
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LOAD SCHEDULE

SWITCHBOARD "SB-1" LOAD SCHEDULE											
CKT NO	TRIP AMPS	DESCRIPTION	VOLT-AMPS			VOLT-AMPS			DESCRIPTION	TRIP AMPS	CKT NO
			A	B	C	A	B	C			
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											12
TOTALS			PHASE	A	B	C					
			APPARENT POWER	258 kVA	258 kVA	258 kVA					
			CURRENT	931 A	931 A	931 A					

	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	COMMENTS
SUPERCHARGING	774kVA	0.92	712kVA	NEW LOAD
MONITORING	0.1kVA	1	0.1kVA	NEW LOAD
TOTAL	774.1kVA		712.1kVA	
LOAD (AMPS)	931 A		857A	
NEC SERVICE CALC - 230.42(A)(1)			100%	100% RATED MCB
MAIN BUS MIN. RATING			1000A	



EQUIPMENT NOTES

- (N) UTILITY TRANSFORMER "XR-1"
 - SIZE & PRIMARY VOLTAGE PER UTILITY
 - SECONDARY 480Y/277V
- (N) MAIN SWITCHBOARD "SB-1"
 - 480/277 VAC, 1000A
 - 1000A MAIN BREAKER, 100%-RATED, LSIG AND ERMS
 - 65 KAIC
 - NEMA 3R
- (N) UTILITY METER
 - METER # TBD
 - METER SOCKET MOUNTED EXTERNALLY ONTO SWITCHBOARD SIDE
- (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 KAIC
- (N) SUPERCHARGER POST "DC"
 - 250kW
 - (8) SUPERCHARGER POSTS
 - 180VDC - 500 VDC

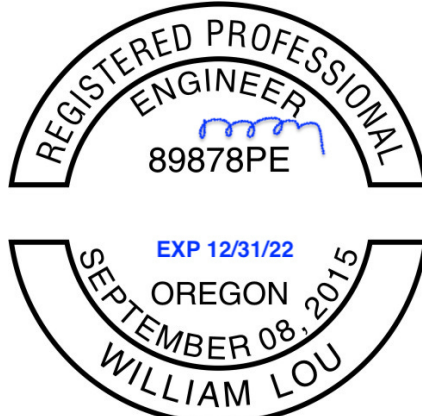
LEGEND

- BUSSING
- CONDUCTORS
- CAT5E/6 CABLE
- CIRCUIT BREAKER
- SWITCH
- FUSE
- CURRENT TRANSFORMER
- POWER TRANSFORMER
- DELTA TRANSFORMER WINDING
- WYE TRANSFORMER WINDING
- GROUNDWED WYE TRANSFORMER WINDING
- EQPT. ENCLOSURES
- METER
- AC-DC OR DC-AC CONVERTER



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DATE									
NO.	REVISION								

SINGLE LINE DIAGRAM

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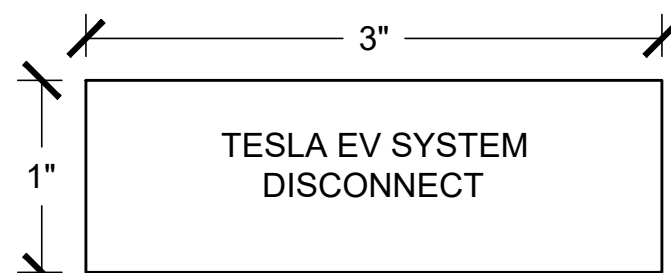
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SYSTEM PLACARDS



PLACE ON SWITCHBOARD



PLACE ON SWITCHBOARD MAIN DISCONNECT

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 (CU ONLY)	GEC SIZE (CU)	MAX CIRCUIT LENGTH	WIRE TYPE	CONDUIT TYPES	MIN CONDUIT SIZE (IN)
AC-SPR	AL	2	3	500 KCMIL	500 KCMIL	AWG 01	-	50'-0"	XHHW-2	PVC, RMC, EMT	4

DC CIRCUIT SCHEDULE

CIRCUIT #	CONDUCTOR METAL UON	# OF CONDUITS	# PHASE CONDUCTORS PER CONDUIT	PHASE CONDUCTOR SIZE	EGC (CU ONLY)	SIGNAL WIRE	DC MID	MAX CIRCUIT LENGTH	WIRE TYPE	CONDUIT TYPES	MIN CONDUIT SIZE (IN)
DC-POST	AL	1	4	350 KCMIL	AWG 01	TESLA PROVIDED	-	330'	XHHW-2 (1000V)	PVC, RMC, EMT	4
DC-BUS	AL	2	2	600 KCMIL	AWG 1/0	-	AWG 3/0 (AL)	10'	XHHW-2 (1000V)	PVC, RMC, EMT	3

6

5

4

3

2

1

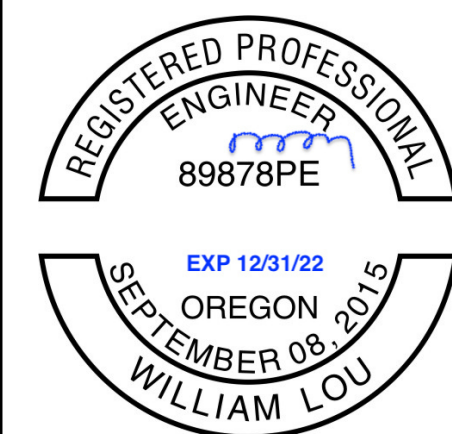
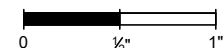
TRENCHING NOTES

- THE TRENCH DESIGNS 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.
- **RHO 60 BACKFILL** - HIGH STRENGTH FLUIDIZED THERMAL (SLURRY) 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.



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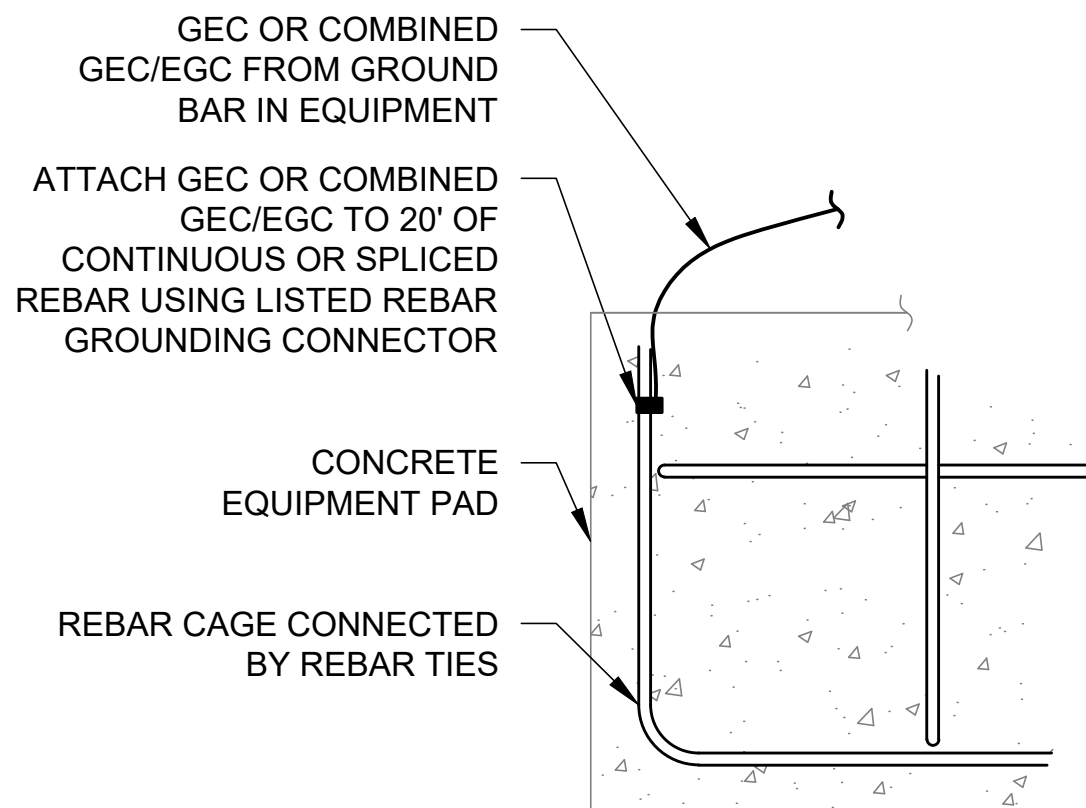
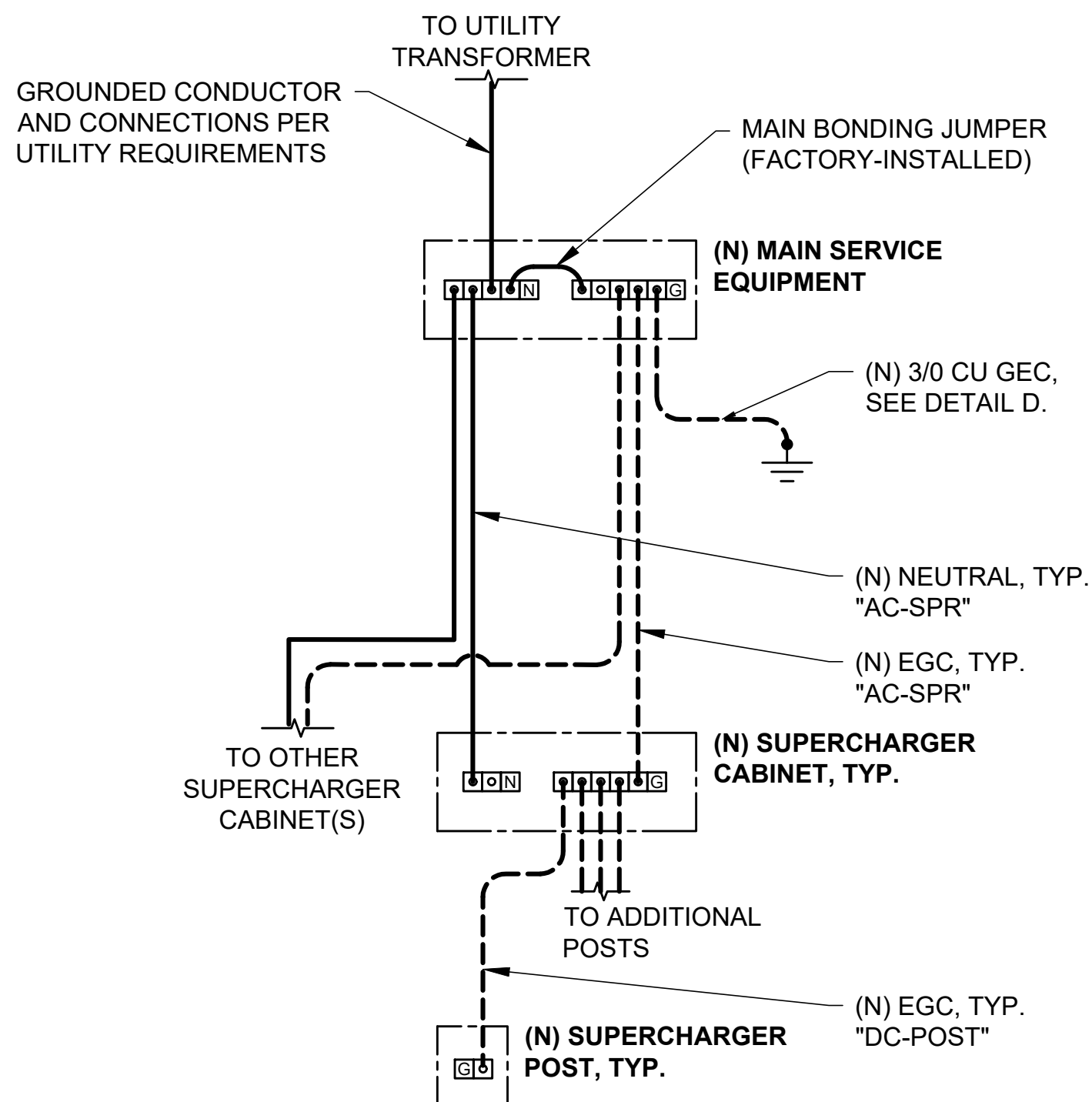
TESLA SUPERCHARGER_MADRAS, OR
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NOTES

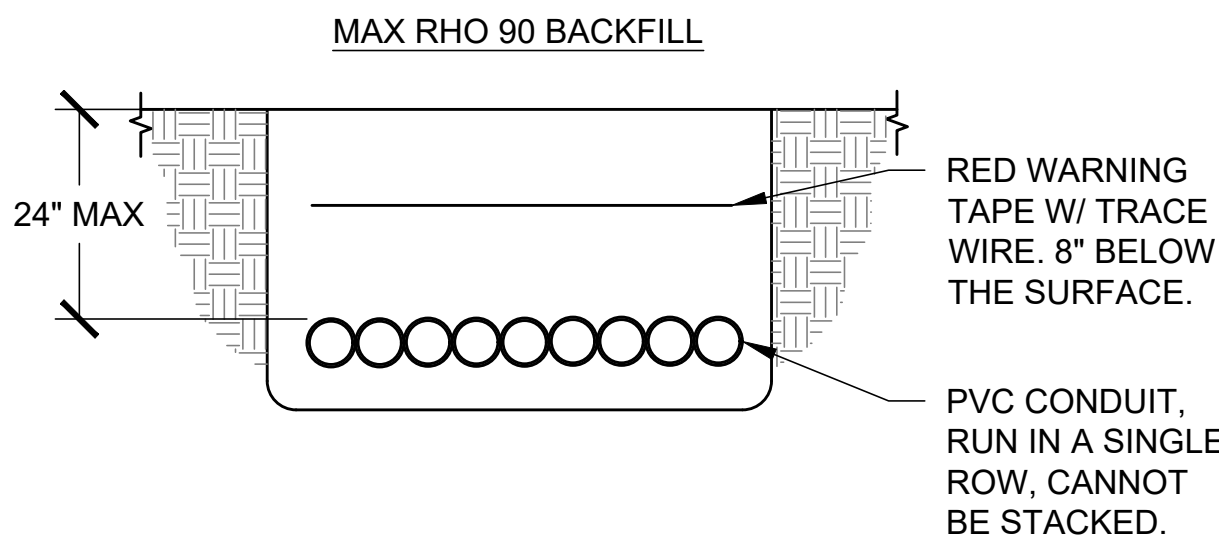
- REFER TO ONE-LINE DIAGRAM FOR SPECIFIC CIRCUIT IDENTIFIERS BETWEEN EQUIPMENT.
- REFER TO AC & DC CIRCUIT SCHEDULES FOR NEUTRAL/GROUND SIZING PER CIRCUIT.

LEGEND

- | | |
|---|---|
|  | NEUTRAL BUSBAR |
|  | 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 |



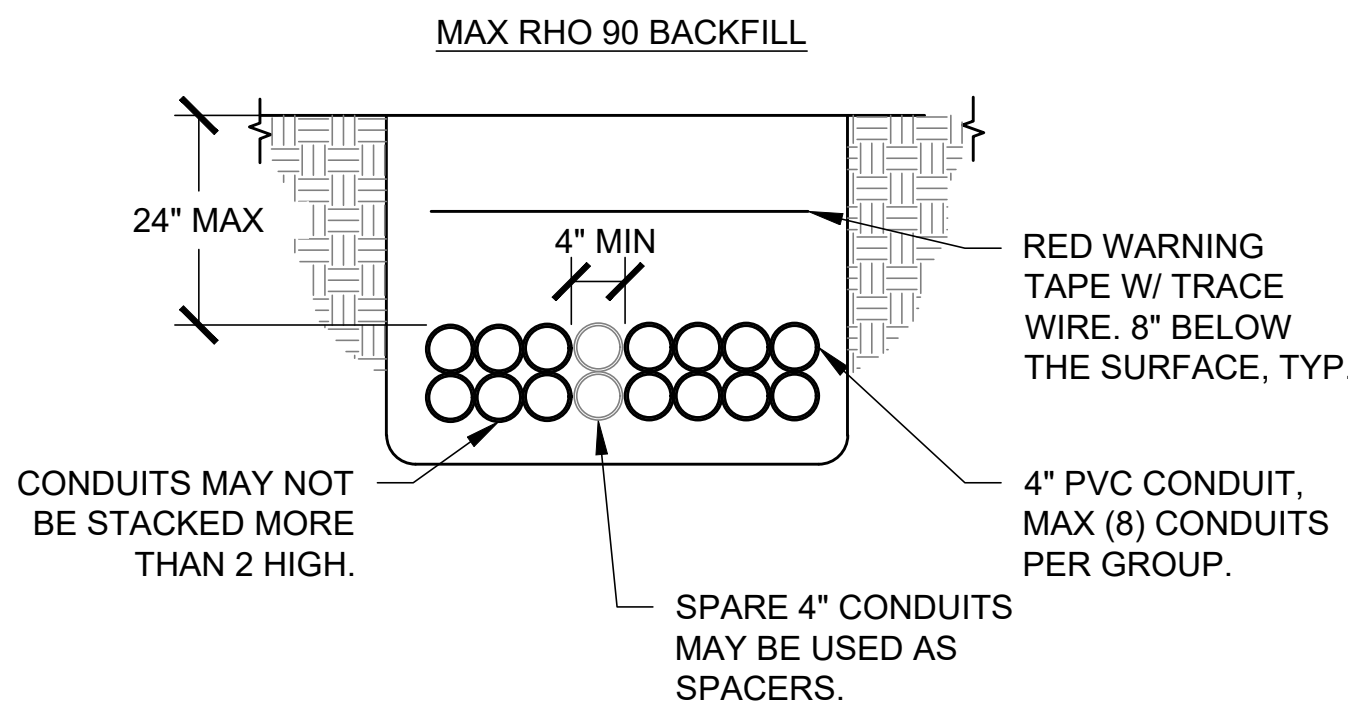
D CONCRETE-ENCASED ELECTRODE E501.100 REBAR UPPER GROUNDING DETAIL, RC NTS



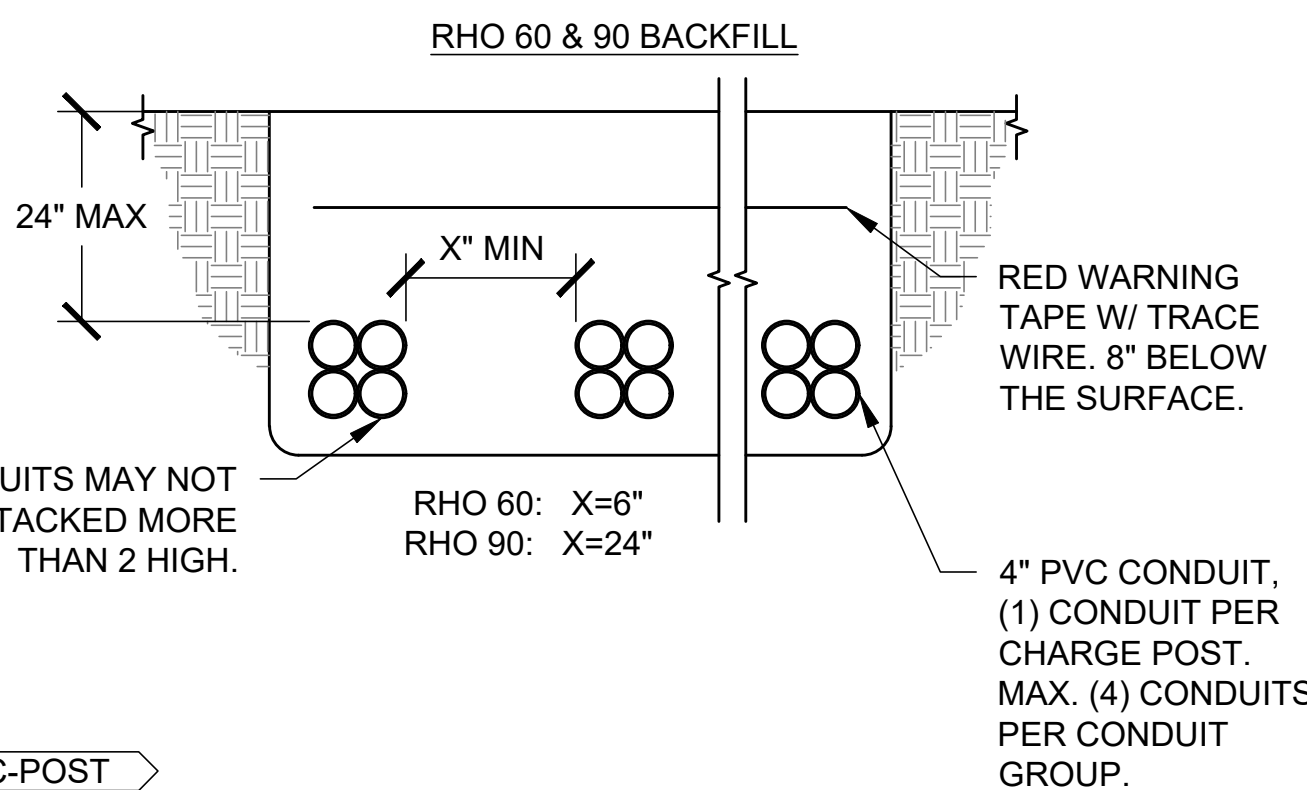
DC-BUS

"DC-BUS" CIRCUITS TRENCH - MAX RHO 90

ESTD 1/23 TRENCH - PREVENT TRAFFIC DETAIL (A)



"AC-SPR" CIRCUIT TRENCH - MAX RHO 90
 E511.12X DC TRENCH - PAVEMENT TRAFFIC DETAIL RA



"DC-POST" CIRCUIT TRENCH - RHO 60 & 90

ES11 12X DC TRENCH - PAVEMENT TRAFFIC DETAIL RA

NTS

[illegible]

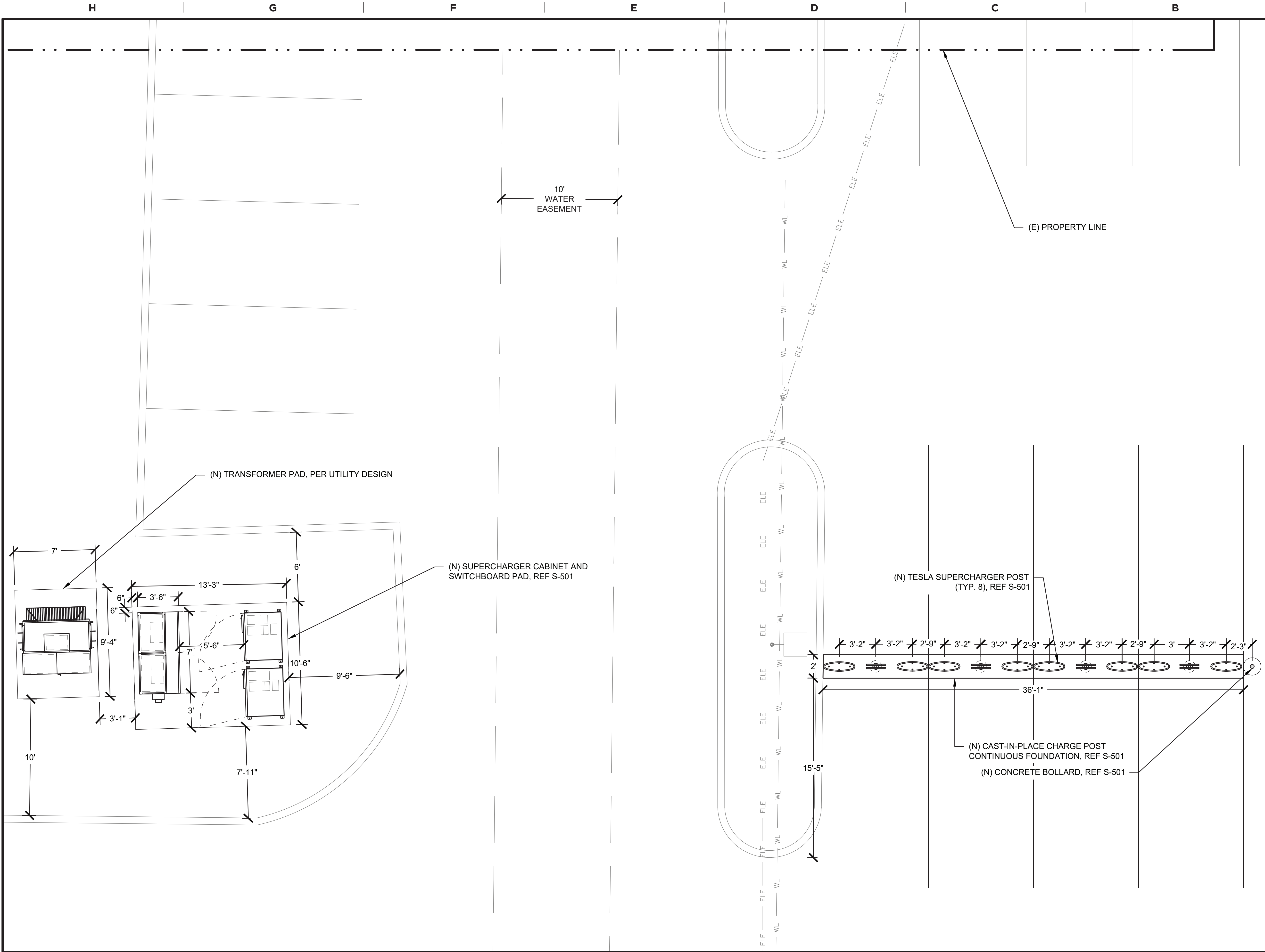
ELECTRICAL DETAILS

E-501

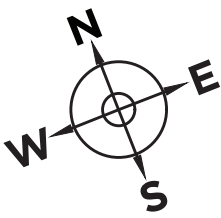
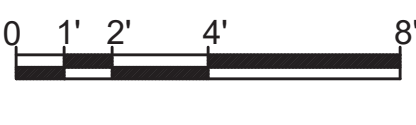
JB-977358-00

REV: 0

IFF



ENLARGED STRUCTURAL SITE PLAN
1/4" = 1'-0"



SITE LEGEND

- (N) SUPERCHARGER POST
- (N) CONCRETE BOLLARD
- (N) BOLLARD DOUBLE SIGN

STRUCTURAL DESIGN CRITERIA:

- DESIGN CODE:
- 2019 OREGON STRUCTURAL SPECIALTY CODE
- DESIGN CRITERIA:
- WIND DESIGN
 - DESIGN WIND SPEED = 99 MPH (ULTIMATE)
 - RISK CATEGORY = II
 - WIND EXPOSURE = C
 - SEISMIC DESIGN
 - SITE CLASS = D
 - $S_s = 0.376 / S_1 = 0.188$
 - $S_d = 0.376 / S_d1 = 0.279$
 - SEISMIC DESIGN CATEGORY = D
 - BASIC SEISMIC-FORCE-RESISTING SYSTEM = NON-STRUCTURAL COMPONENT
 - $R = 2.5 / a_p = 1.0$
 - GROUND SNOW LOAD = 17 psf

NOTES:

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



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

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



Digitally signed by Yoo Jin Kim
Date: 2021.05.10 10:48:15 -07'00'

TESLA SUPERCHARGER_MADRAS, OR
8 SUPERCHARGERS
TESLA SUPERCHARGER_MADRAS, OR
1575 US HIGHWAY 97
MADRAS, OR 97741

NO.	REVISION	DATE

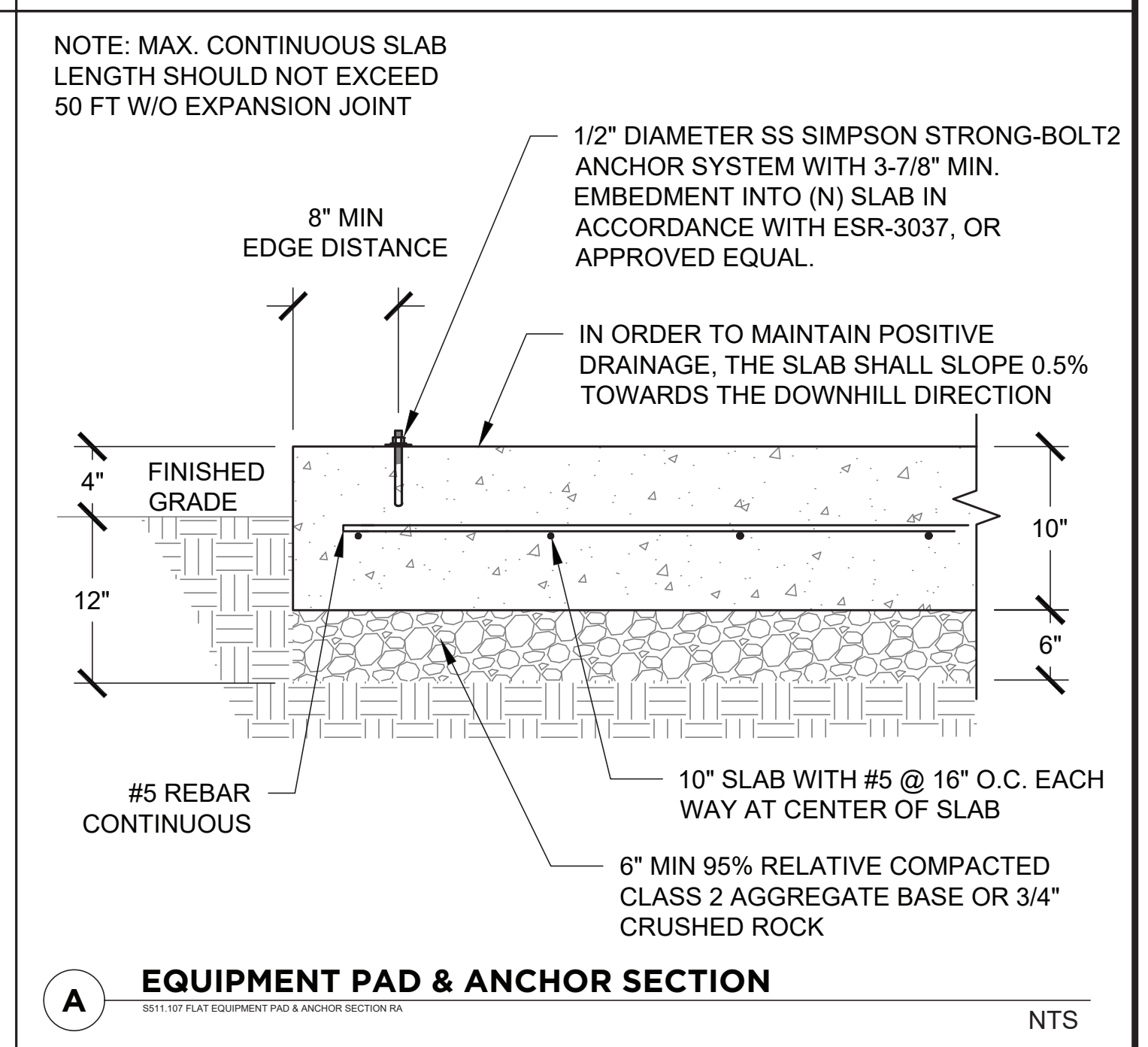
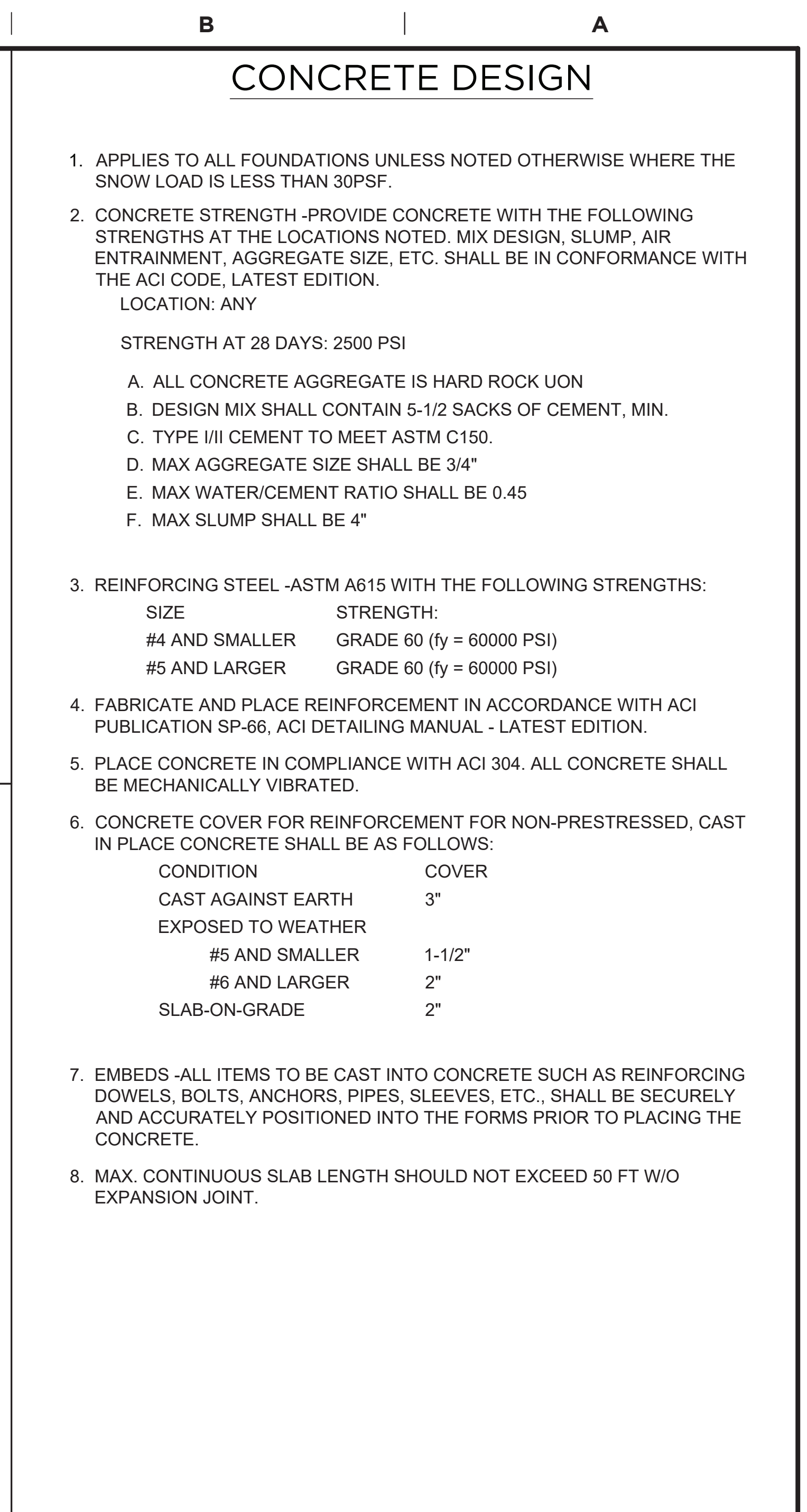
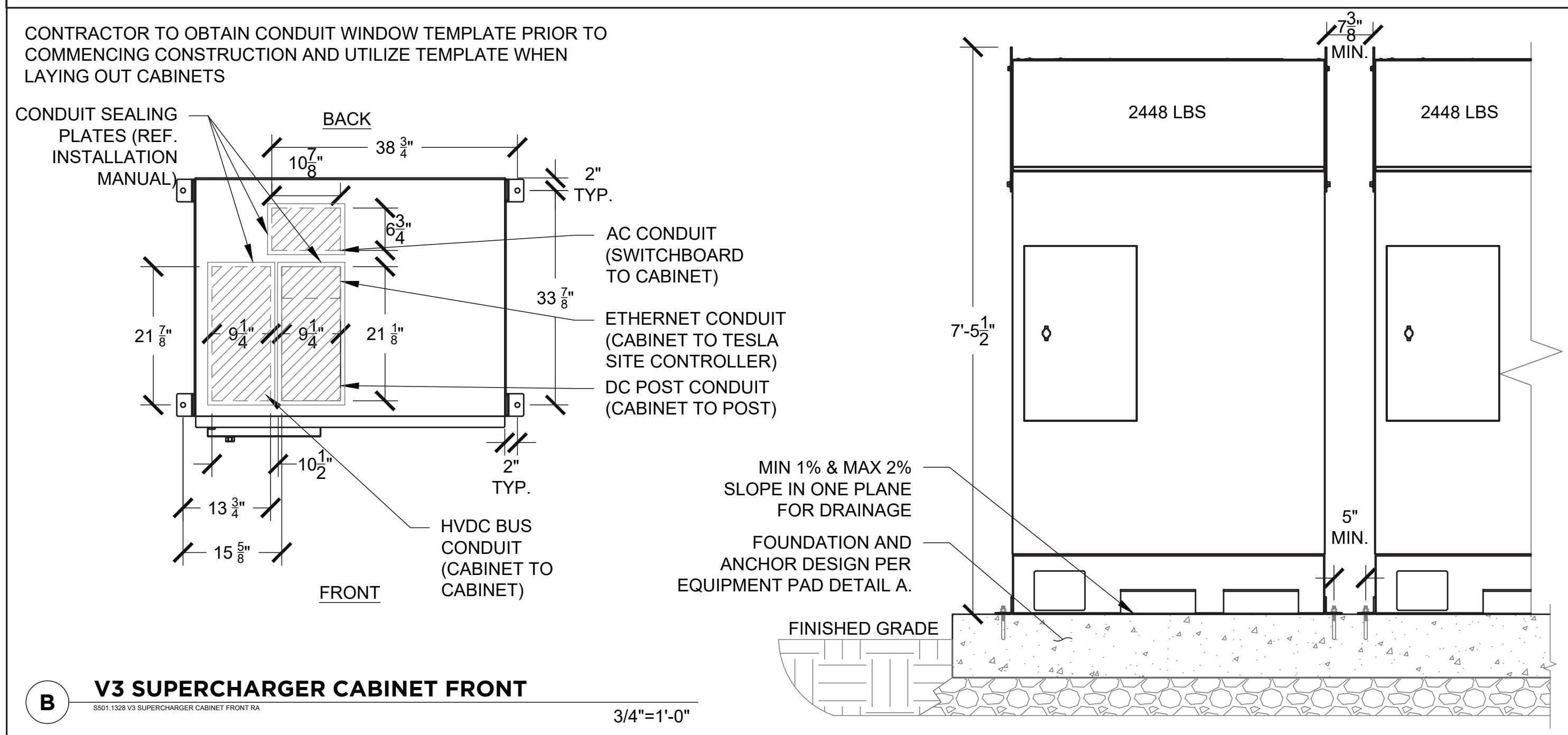
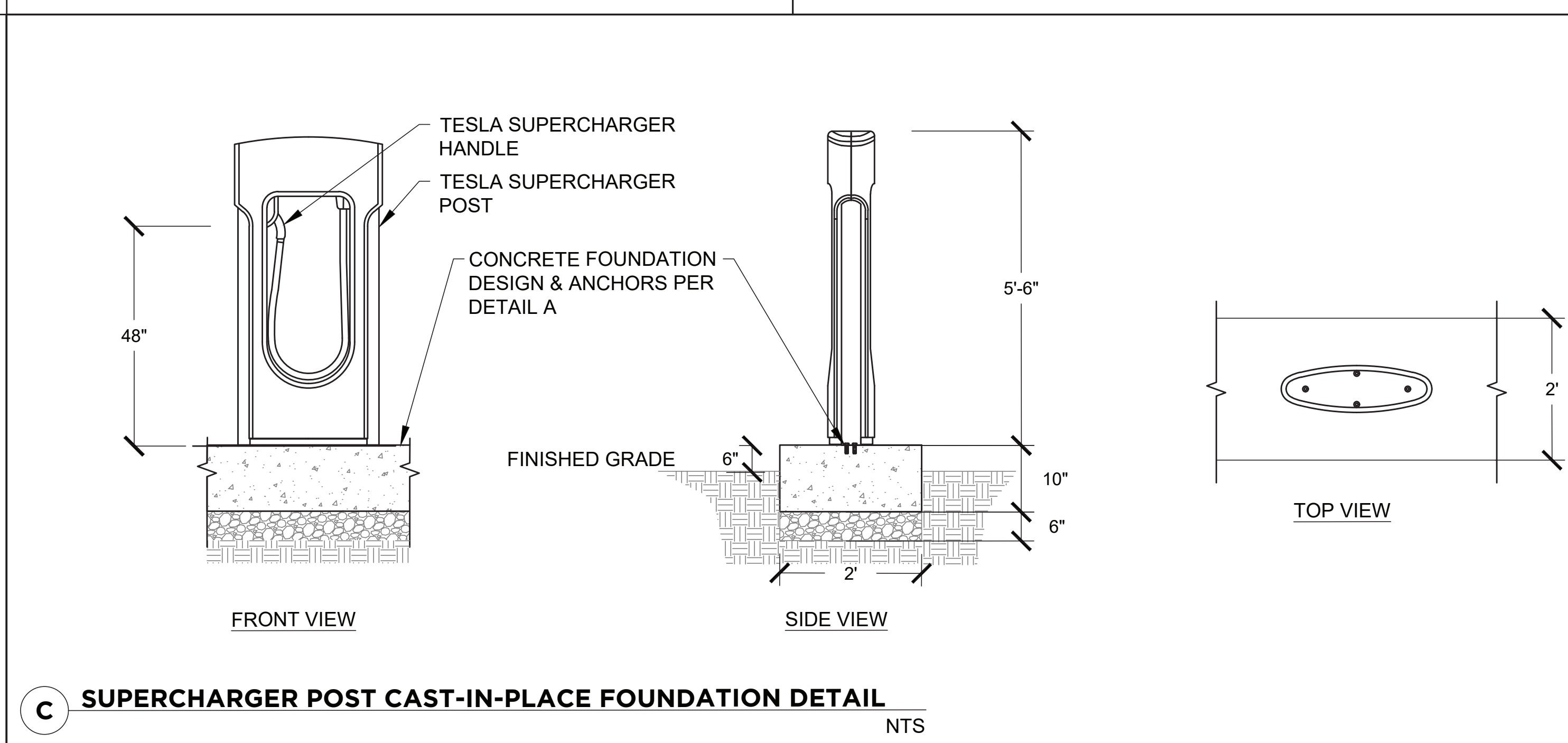
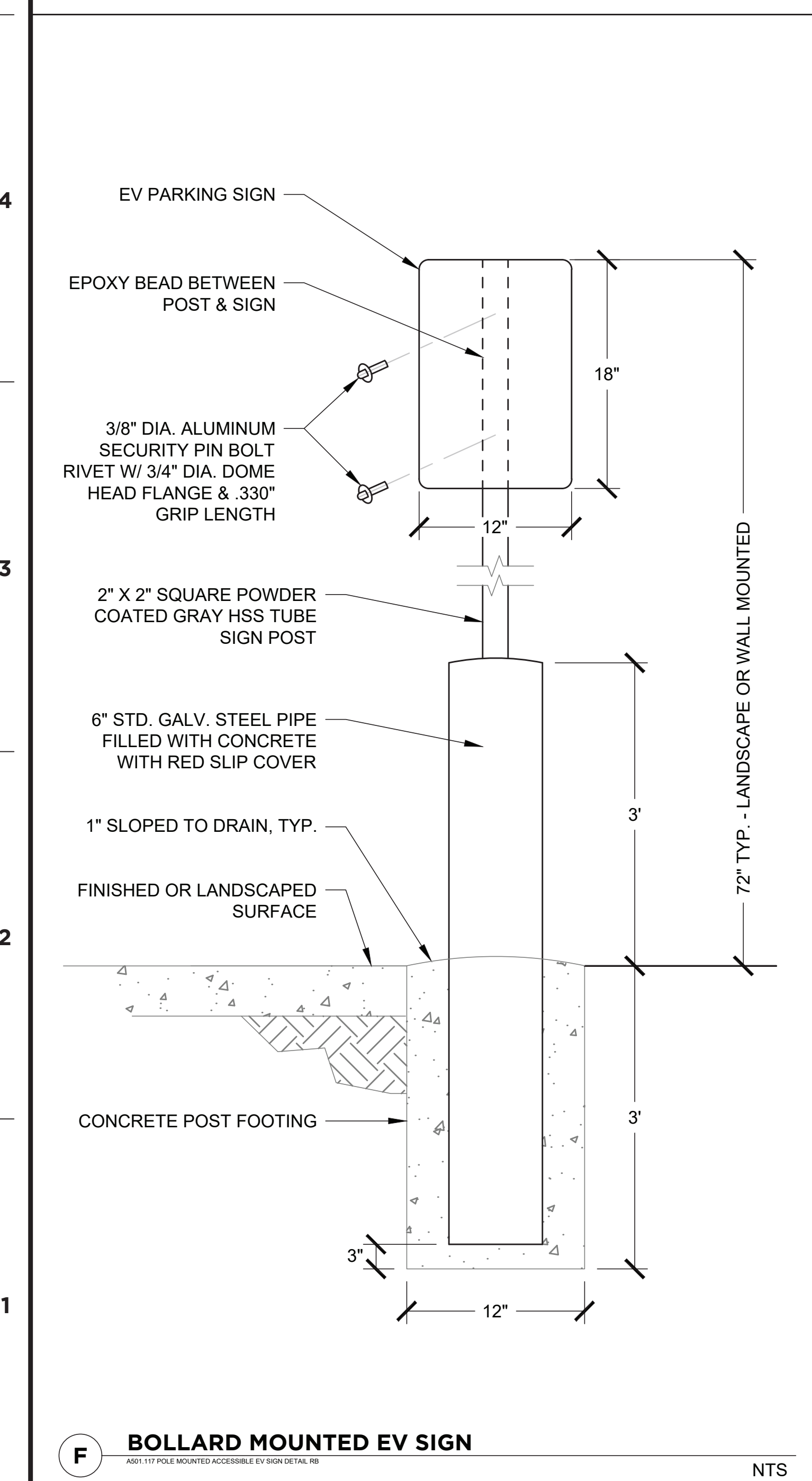
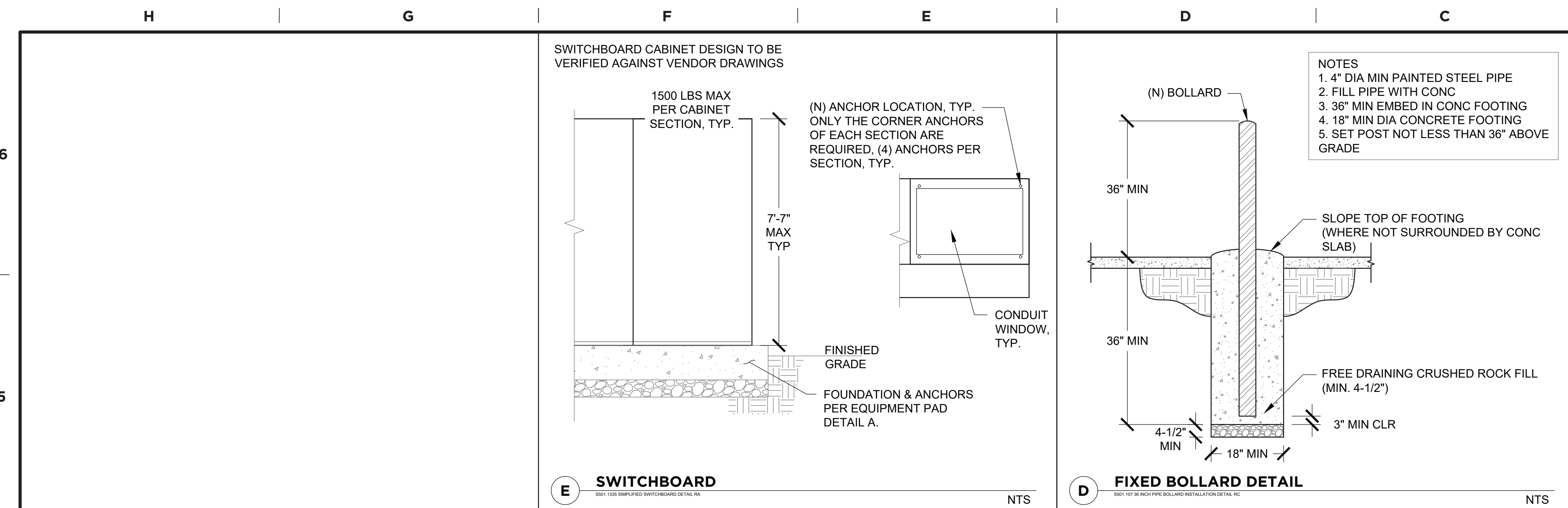
ENLARGED
SITE PLAN

S-301

JB-977358-00

REV: 0

IFP



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
82248PE
OREGON
JAN. 13, 2009
YOO JIN KIM

EXPIRES JAN 13 2009

Digitally signed by Yoo Jin Kim
Date: 2021.05.10 10:48:22 -07'00'

TESLA SUPERCHARGER_MADRAS, OR
8 SUPERCHARGERS
TESLA SUPERCHARGER_MADRAS, OR
1575 US HIGHWAY 97
MADRAS, OR 97741

[illegible]

STRUCTURAL DETAILS	
S-501	
JB-977358-00	
REV: 0	IFP