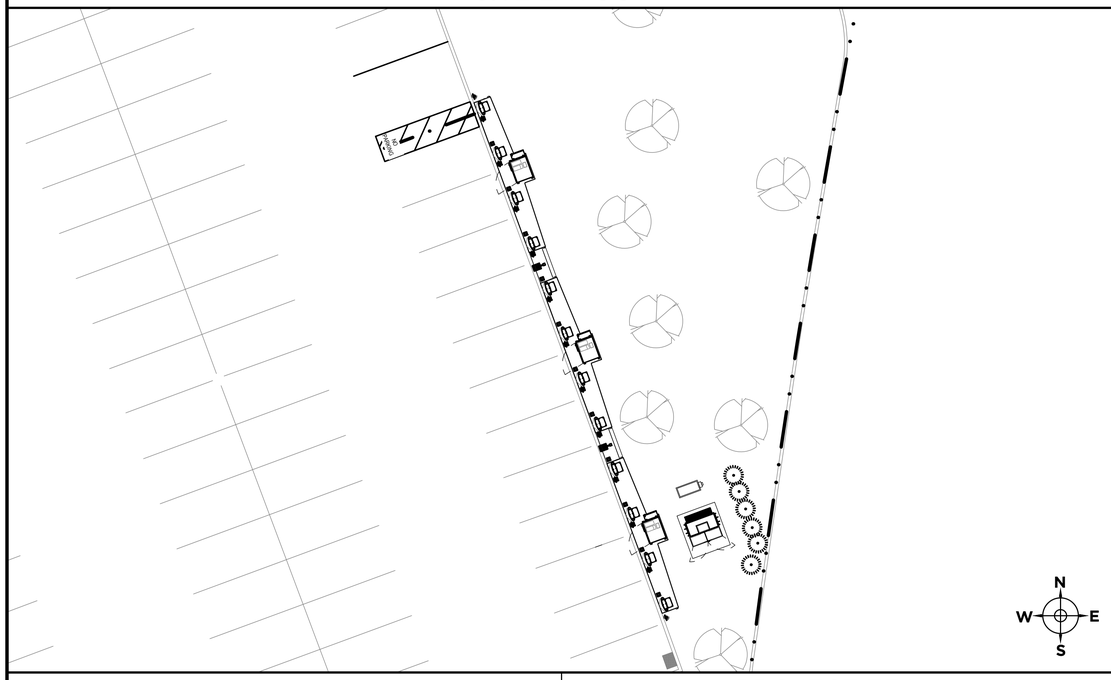
TESLA SUPERCHARGER WAUKESHA,WI - 1600 E MAIN ST
12 SUPERCHARGERS
APN: 1007-043
TRT: 18670

SITE LAYOUT



AERIAL MAP

ABBREVIATIONS

AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
ESS	ENERGY STORAGE SYSTEM
BLDG	BUILDING
CLR	CLEAR
CONC	CONCRETE
COMM	COMMUNICATION
DC	DIRECT CURRENT
DIA	DIAMETER
DIST	DISTANCE
EQ	EQUAL
EGC	EQUIPMENT GROUNDING CONDUCTOR
(E)	EXISTING
EA.	EACH
EMT	ELECTRICAL METALLIC TUBING
EV	ELECTRIC VEHICLE
GAB	GRADED AGGREGATE BASE
GALV	GALVANIZED
GEC	GROUNDING ELECTRODE CONDUCTOR
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
LV	LOW-VOLTAGE
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
PV	PHOTOVOLTAIC
PP	POWERPACK
PSU	PRE-ASSEMBLED SUPERCHARGER UNIT
PVC	POLYVINYL CHLORIDE
RSD	RAPID SHUTDOWN
SCCR	SHORT CIRCUIT CURRENT RATING
SCH	SCHEDULE
SQ. IN.	SQUARE INCHES
SS	STAINLESS STEEL
SSD	SEE STRUCTURAL DRAWINGS
STC	STANDARD TESTING CONDITIONS
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
W	WATT

PROJECT TEAM

STRUCTURAL ENGINEER OF RECORD:
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DESIGN CRITERIA

1. WIND DESIGN
   - DESIGN WIND SPEED = 115 MPH (ULTIMATE)
   - RISK CATEGORY = II
   - WIND EXPOSURE = C
2. SEISMIC DESIGN
   - RISK CATEGORY = II
   - SEISMIC IMPORTANCE FACTOR = 1.0
   - SITE CLASS = D
   - Ss = 0.088 / S1 = 0.047
   - Sds = 0.094 / Sd1 = 0.075
   - SEISMIC DESIGN CATEGORY = B
   - BASIC SEISMIC-FORCE-RESISTING SYSTEM = NON-STRUCTURAL COMPONENT
   - R = 2.5 / a_p = 1.0
3. GROUND SNOW LOAD = 30 PSF

APPLICABLE CODES

2018 WI BUILDING CODE
2020 NATIONAL ELECTRIC 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.

INSTALLATION OF NEW LED LIGHTING.

SYSTEM SUMMARY

SUPERCHARGER SYSTEM SUMMARY

EQUIPMENT	QTY
PSU 2.0	3
V3 OR ALTERNATIVE SUPERCHARGER POSTS	12
UTILITY TRANSFORMER	1
LIGHT POLES	2

SHEET INDEX

SHEET #	SHEET TITLE
G-001	COVER PAGE
G-002	NOTES
G-101	DEMO PLAN
G-102	LANDSCAPE PLAN
E-101	SITE PLAN
E-201	SINGLE LINE DIAGRAM
E-501	ELECTRICAL DETAILS
S-301	ENLARGED SITE PLAN
S-501	STRUCTURAL DETAILS
S-502	STRUCTURAL DETAILS

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

TESLA SUPERCHARGER_WAUKESHA
12 SUPERCHARGERS
1600 E MAIN ST
WAUKESHA, WI 53186

NO.	REVISION	DATE

COVER PAGE

G-001

JB-531334-00

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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

SCOPE OF WORK

UTILITY	WISCONSIN ELECTRIC (WE) ENERGIES	
ITEMS	**TESLA**	**UTILITY**
PROVIDE PRIMARY SIDE TRENCHING		X
PROVIDE & INSTALL PRIMARY SIDE CONDUITS	X	
PROVIDE AND INSTALL PRIMARY SIDE CONDUCTORS		X
PROVIDE AND INSTALL UTILITY TRANSFORMER PAD		X
PROVIDE UTILITY TRANSFORMER		X
INSTALL UTILITY TRANSFORMER		X
INSTALL CONNECTIONS AT UTILITY TRANSFORMER (PRIMARY)		X
INSTALL CONNECTIONS AT UTILITY TRANSFORMER (SECONDARY)		X
PROVIDE METER BASE (UTILITY TO PROVIDE SPECS)	X	
INSTALL METER BASE	X	
PROVIDE METER		X
INSTALL METER		X
PROVIDE CTs		X
INSTALL CTs (INSIDE CT CABINET)		X
PROVIDE SECONDARY SIDE TRENCHING	X	
PROVIDE SECONDARY SIDE CONDUITS W/ PULL WIRE	X	
PROVIDE & INSTALL SECONDARY SIDE CONDUCTORS	X	
PROVIDE ROAD CUTS/ROAD BORES/PAVEMENT REPLACEMENT		X
PROVIDE & INSTALL LANDSCAPE REMEDIATION	X (INSIDE PROPERTY LINE)	X

SITE LEGEND

- (E) ACCESSIBLE PARKING SPACE
- (E) TREE
- (E) LIGHT POLE
- (E) FIRE HYDRANT
- (E) ELECTRIC MANHOLE
- (E) GAS MANHOLE
- (E) SANITARY SEWER MANHOLE
- (E) STORM MANHOLE
- (E) TELEPHONE MANHOLE
- (E) TELEVISION MANHOLE
- (E) UNKNOWN MANHOLE
- (E) POTABLE WATER MANHOLE
- (E) FIRE HYDRANT
- (E) CLEANOUT
- (E) GUY WIRE - ELECTRIC
- (E) UTILITY POLE - ELECTRIC
- (E) GUY WIRE
- (E) UTILITY POLE - TELEPHONE
- (E) SPRINKLER HEAD
- (E) WATER RISER
- (E) GAS VALVE
- (E) HOSE BIB
- (E) IRRIGATION VALVE
- (E) SPRINKLER HEAD
- (E) WATER VALVE

- UE — UNDERGROUND ELECTRIC LINE
- ST — UNDERGROUND STORM DRAIN LINE
- WL — UNDERGROUND WATER LINE
- UG — UNDERGROUND GAS LINE
- OE — OVERHEAD ELECTRIC LINE
- UT — UNDERGROUND TELEPHONE LINE
- SS — UNDERGROUND SANITARY SEWER LINE

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

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

0 1/2" 1"

TESLA SUPERCHARGER_WAUKESHA
12 SUPERCHARGERS

1600 E MAIN ST
WAUKESHA, WI 53186

NO.	REVISION	DATE

NOTES

G-002

JB-531334-00

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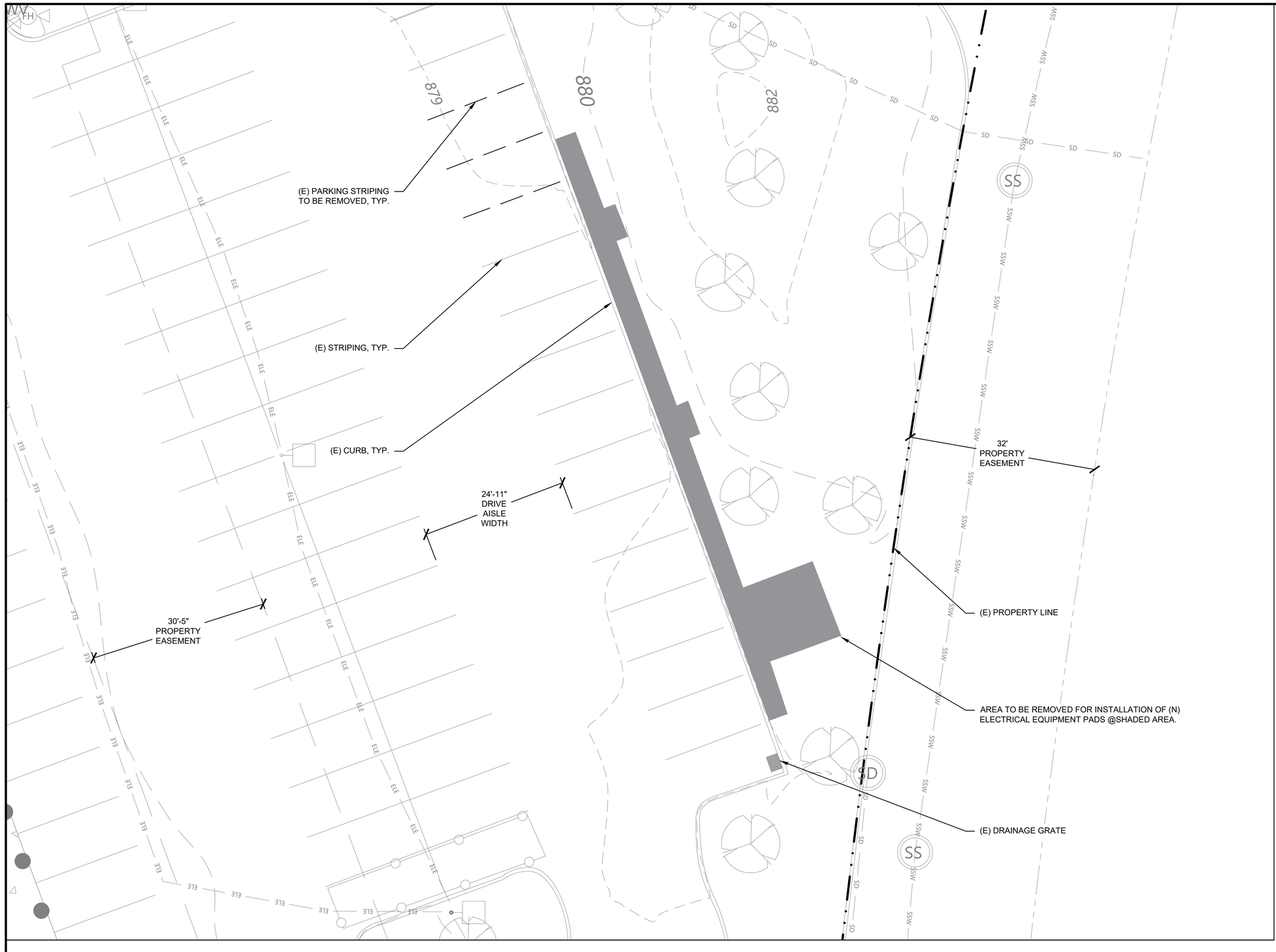

DEMOLITION PLAN
1/8" = 1'-0"

0 1' 4' 8' 16'

N W E S

NOTES

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

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0 ½" 1"

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DEMO PLAN

G-101

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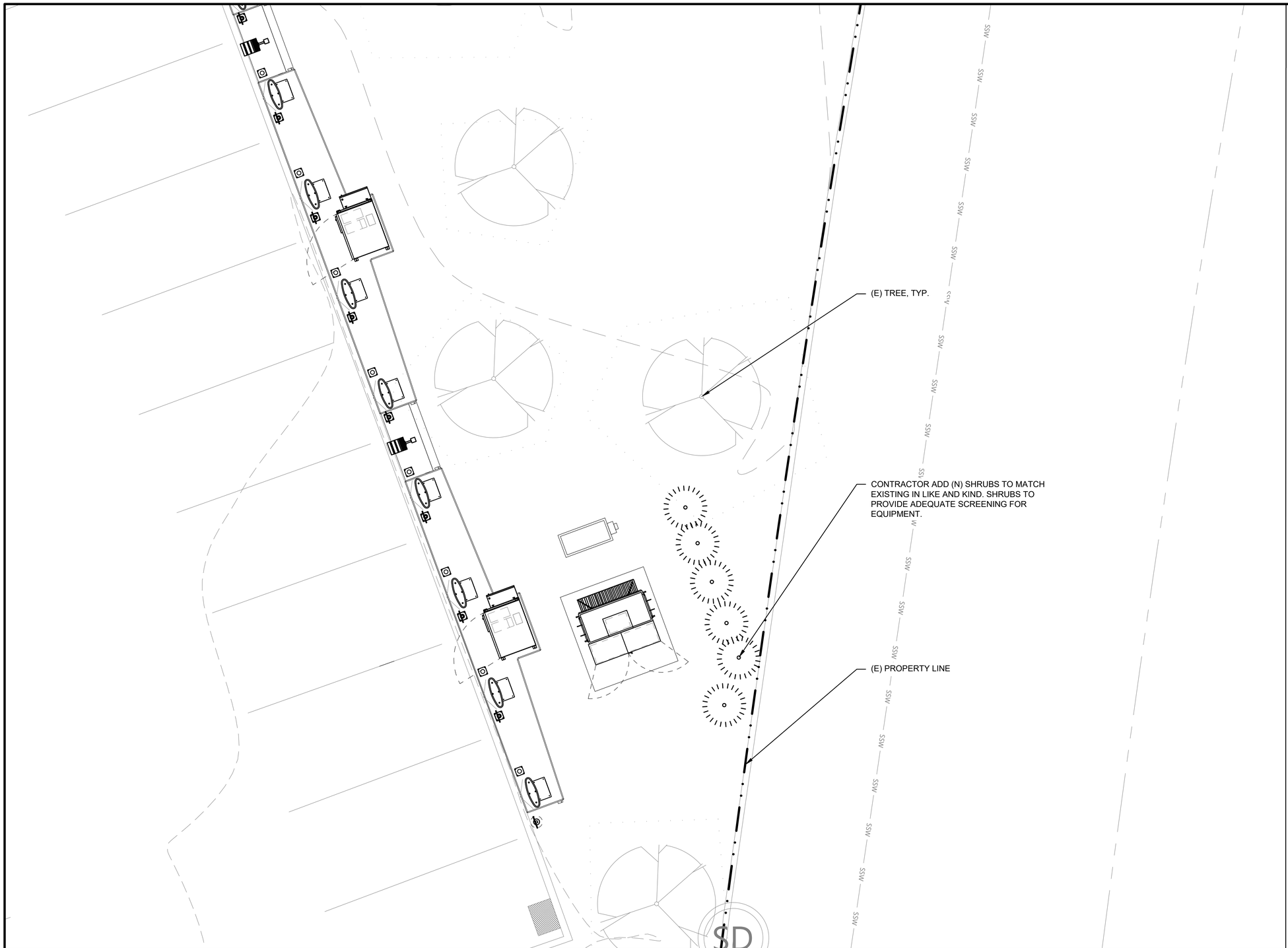

SITE LEGEND

(E) TREE

(N) SHRUB TO MATCH EXISTING IN LIKE AND KIND

LANDSCAPE NOTES

- (0) TREES TO BE REMOVED
- CONTRACTOR TO BE RESPONSIBLE FOR LANDSCAPE GROWTH FOR THE FIRST GROWING SEASON.

GENERAL NOTES

1. GRAVEL TO BE PLACED ENVELOPING PLANTED VEGETATION.
2. GRAVEL TO BE SELECTED FROM LOCAL SOURCES TO MATCH LANDSCAPE
3. SELECTED GEOTEXTILE SHOULD BE PARTIALLY PERMEABLE TO ALLOW RAINWATER TO BE ABSORBED.
4. BIGGER TREES/PLANTS TO BE PLACED FIRST AS TO USE THEM AS A GUIDE FOR MODULATING THE REMAINING VEGATATION PLANTING.

LANDSCAPE PLAN

1/4" = 1'-0"

0 1' 2' 4' 8'

N W E S

TESLA

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

0 ½" 1"

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1600 E MAIN ST
WAUKESHA, WI 53186

NO.	REVISION	DATE

LANDSCAPE PLAN

G-102

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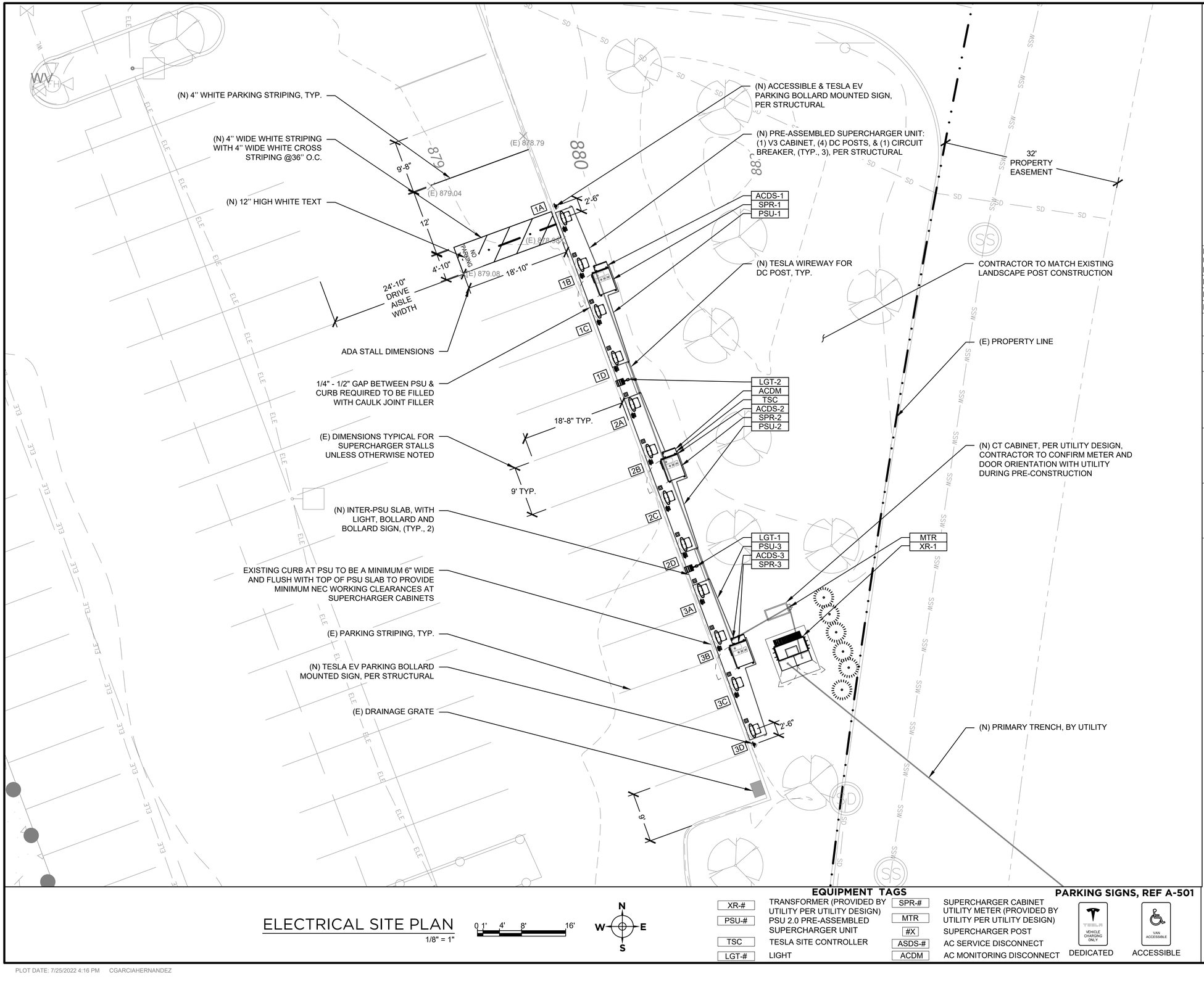


ELECTRICAL SITE PLAN

1/8" = 1"

0 1' 4' 8' 16'

N W E S

EQUIPMENT TAGS

XR-#	TRANSFORMER (PROVIDED BY UTILITY PER UTILITY DESIGN)	SPR-#	SUPERCHARGER CABINET
PSU-#	PSU 2.0 PRE-ASSEMBLED SUPERCHARGER UNIT	MTR	UTILITY METER (PROVIDED BY UTILITY PER UTILITY DESIGN)
TSC	TESLA SITE CONTROLLER	#X	SUPERCHARGER POST
LGT-#	LIGHT	ASDS-#	AC SERVICE DISCONNECT
		ACDM	AC MONITORING DISCONNECT

PARKING SIGNS, REF A-501

DEDICATED — TESLA VEHICLE CHARGING ONLY

ACCESSIBLE — VAN ACCESSIBLE

SITE LEGEND

- (N) CONDUIT ROUTE, SHOWN FOR DIAGRAMMATIC PURPOSES ONLY.
- SPOT ELEVATION
- (E) XX.XX EXISTING ELEVATION
- (N) BOLLARD SIGN
- (N) SURFACE MOUNTED SIGN
- (N) SURFACE BOLLARD
- (N) POLE-MOUNTED LIGHT FIXTURE
- (N) SHRUB TO MATCH EXISTING IN LIKE AND KIND

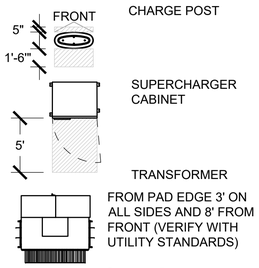
PARKING STALL SCHEDULE

EXISTING STANDARD STALLS UTILIZED AS A RESULT OF THIS PROJECT	14
PROPOSED TESLA STALLS	12
PROPOSED STANDARD STALLS	1
NET STALL COUNT	**-1**

CHARGING STALLS SCHEDULE

SUPERCHARGER CABINET	POST TAG	SIGN TYPE
1	1A	ACCESSIBLE & DEDICATED
	1B	DEDICATED
	1C	DEDICATED
	1D	DEDICATED
2	2A	DEDICATED
	2B	DEDICATED
	2C	DEDICATED
	2D	DEDICATED
3	3A	DEDICATED
	3B	DEDICATED
	3C	DEDICATED
	3D	DEDICATED

MINIMUM SERVICE CLEARANCES



NOTES:

1. UTILITY EQUIPMENT/FOUNDATION DIMENSIONS AND LOCATIONS PER UTILITY. CONTRACTOR TO VERIFY AGAINST EXECUTED UTILITY DESIGN.
2. CONTRACTOR TO REFER TO EXECUTED UTILITY DESIGN FOR PRIMARY AND POINT OF CONNECTION DETAILS.
3. 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. EXISTING SPOT ELEVATIONS ARE APPROXIMATE PER SURVEY DATA AND ARE TO BE FIELD VERIFIED BY CONTRACTOR.

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NO.	REVISION	DATE

SITE PLAN

E-101

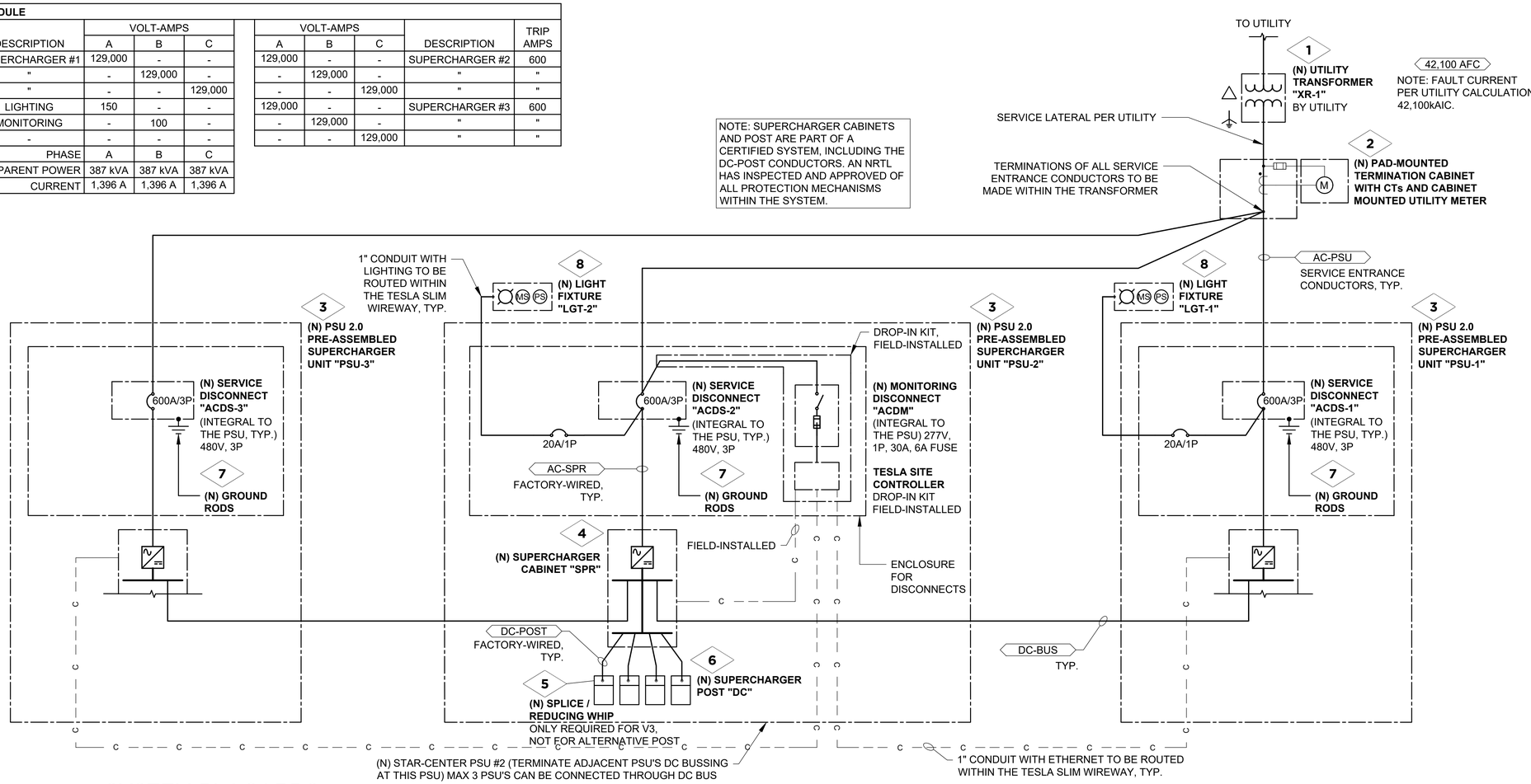
JB-531334-00

REV: 0 | IFP

PLOT DATE: 7/25/2022 4:16 PM CGARCIAHERNANDEZ

LOAD SCHEDULE								
TRIP AMPS	DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	DESCRIPTION	TRIP AMPS
600	SUPERCHARGER #1	129,000	-	-	129,000	-	-	SUPERCHARGER #2	600
"	"	-	129,000	-	-	129,000	-	"	"
"	"	-	-	129,000	-	-	129,000	"	"
-	LIGHTING	150	-	-	129,000	-	-	SUPERCHARGER #3	600
-	MONITORING	-	100	-	-	129,000	-	"	"
-	-	-	-	-	-	-	129,000	"	"
TOTALS	PHASE	A	B	C					
	APPARENT POWER	387 kVA	387 kVA	387 kVA					
	CURRENT	1,396 A	1,396 A	1,396 A					

NOTE: SUPERCHARGER CABINETS AND POST ARE PART OF A CERTIFIED SYSTEM, INCLUDING THE DC-POST CONDUCTORS. AN NRTL HAS INSPECTED AND APPROVED OF ALL PROTECTION MECHANISMS WITHIN THE SYSTEM.



SYSTEM PLACARDS

SERVICE DISCONNECT 1 OF 3. 2ND AND 3RD DISCONNECTS LOCATED AT PSU-2 AND PSU-3

ATTACH AT PSU #1 SERVICE DISCONNECT

SERVICE DISCONNECT 2 OF 3. 1ST AND 3RD DISCONNECTS LOCATED AT PSU-1 AND PSU-3

ATTACH AT PSU #2 SERVICE DISCONNECT

TESLA EV SYSTEM DISCONNECT

ATTACH AT ALL PSU DISCONNECTS

WARNING
TESLA EV SITE CONTROLLER (TSC) IS STILL LIVE WHEN EV SYSTEM DISCONNECT IS IN THE "OFF" POSITION. TSC DISCONNECT LOCATED BEHIND PANEL

ATTACH ON EXTERIOR OF TESLA SITE CONTROLLER PANEL AT PSU-2 SERVICE DISCONNECT

SERVICE DISCONNECT 3 OF 3. 1ST AND 2ND DISCONNECTS LOCATED AT PSU-1 AND PSU-2

ATTACH AT PSU #3 SERVICE DISCONNECT

TESLA SUPERCHARGER
1600 E MAIN ST
1-877-798-3752

ATTACH AT ALL PSU DISCONNECTS

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	SSBJ	MAX CIRCUIT LENGTH	WIRE TYPE	CONDUIT TYPES	MIN CONDUIT SIZE (IN)
AC-PSU	AL	2	3	500 KCMIL	500 KCMIL	-	-	300'-0"	XHHW-2	PVC, RMC, EMT, HDPE	4
AC-SPR (FACTORY WIRED)	AL	2	3	500 KCMIL	500 KCMIL	1 AWG (CU)	-	600'-0"	XHHW-2	PVC, RMC, EMT, HDPE	4
AC-LGT	CU	1	1	12 AWG	12 AWG	12 AWG	-	150'-0"	THWN-2	PVC, RMC, EMT, HDPE	1

DC CIRCUIT SCHEDULE

CIRCUIT #	CONDUCTOR METAL UON	# OF CONDUITS	# PHASE CONDUCTORS PER CONDUIT	PHASE CONDUCTOR SIZE	EGC	LVDC	SIGNAL WIRE	DC MID	MAX CIRCUIT LENGTH	WIRE TYPE	CONDUIT TYPES	MIN CONDUIT SIZE (IN)	WIREWAY
DC-POST	AL	1	4	600 KCMIL	AWG 2/0 (CU)	(2) AWG #6 (CU)	TESLA PROVIDED	-	330'	XHHW-2 (1000V)	PVC, RMC, EMT, HDPE	4	-
DC-BUS	AL	1	4	600 KCMIL	AWG 1/0 (CU)	-	-	AWG 3/0	900'	XHHW-2 (1000V)	PVC, RMC, EMT, HDPE	3.5	TESLA SLIM 6' x 8.25"

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

EQUIPMENT NOTES

#	
1	(N) UTILITY TRANSFORMER XR-1" • SIZE & PRIMARY VOLTAGE PER UTILITY • SECONDARY 480Y/277V
2	(N) PAD-MOUNTED TERMINATION CABINET WITH CTS AND CABINET MOUNTED UTILITY METER • AMERICAN MIDWEST POWER (AMP) MANUFACTURING TERMINATION CABINET #WESCC16CT W/ (12) 750KCMIL CONNECTORS PER SIDE • MILBANK #UC3889-XL 3PH, 4W, (13) TERMINAL UTILITY METER • CURRENT TRANSFORMERS PER UTILITY
3	(N) PSU 2.0 PRE-ASSEMBLED SUPERCHARGER UNIT "PSU" • (1) SUPERCHARGER CABINET "SPR" PER UNIT • (4) SUPERCHARGER POSTS "DC" PER UNIT • INTEGRAL 600A CIRCUIT BREAKER SERVICE ENTRANCE RATED • FACTORY PRE-WIRED DC-POST CIRCUIT • FACTORY PRE-WIRED AC-SPR CIRCUIT • (3) PSU's TOTAL
4	(N) SUPERCHARGER CABINET "SPR" • (3) SUPERCHARGER CABINETS • 480VAC, 3PH, 4W • 465A MAX AC INPUT • DC OUTPUT TO 4 CHARGE POSTS MAX EACH SUPERCHARGER CABINET • 85 kA SCCR
5	(N) TESLA REDUCING WHIP SPLICE • 600 KCMIL BARREL SPLICE TO 16-24" INSULATED 350KCMIL AL WHIP • ABB # HOMAC BMS600AL
6	(N) SUPERCHARGER POST "DC" • 250KW • (12) SUPERCHARGER POSTS • 0 VDC - 500 VDC
7	(N) GROUND RODS • COPPER • SEE E-501 FOR MORE DETAILS
8	(N) LIGHT FIXTURE "LGT" • LINMORE LL-SL1-SM-75-40K-T3-UNV-SA-SN • 75W, 120-277VAC • INTEGRATED PHOTO AND MOTION SENSOR • POLE MOUNTED • (2) LED MODULE WITH 4000K LIGHTING COLOR TEMPERATURE CAST PER FIXTURE • CAST ALUMINUM BODY, IP65 RATED • -40°C MIN REQUIRED AMBIENT TEMPERATURE (2) TOTAL FIXTURES

TESLA

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12 SUPERCHARGERS
1600 E MAIN ST
WAUKESHA, WI 53186

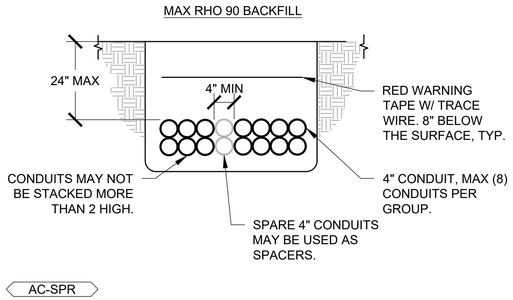
NO.	REVISION	DATE

SINGLE LINE DIAGRAM

E-201

JB-531334-00

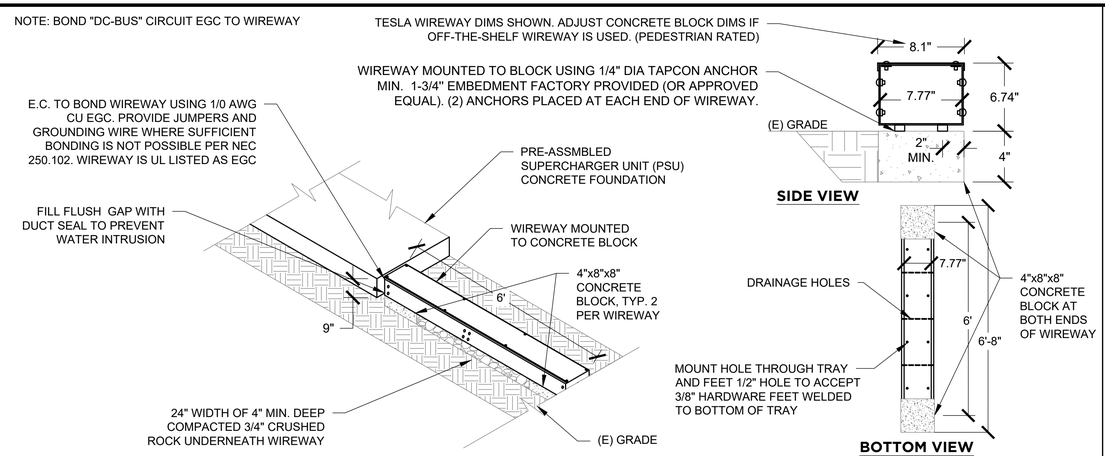
REV: 0 | IFP



D "AC-PSU" CIRCUIT TRENCH - MAX RHO 90

E501.1223 SPR-# CIRCUIT TRENCH - MAX RHO 90 RA

NTS



C DC-BUS-PSU 2.0 SLIM WIREWAY MOUNTED ON SOIL DETAIL

E501.1230 DC-BUS-PSU SLIM WIREWAY MOUNTING DETAIL RA

NTS

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.

BREAKER SETTINGS

NOTE: CONTRACTOR TO VERIFY BREAKER MODEL IN FIELD AND USE THE CORRESPONDING BREAKER SETTINGS TABLE. IF THE BREAKER MODEL DOES NOT MATCH EITHER TABLE, VERIFY SETTINGS WITH ELECTRICAL ENGINEER OF RECORD.

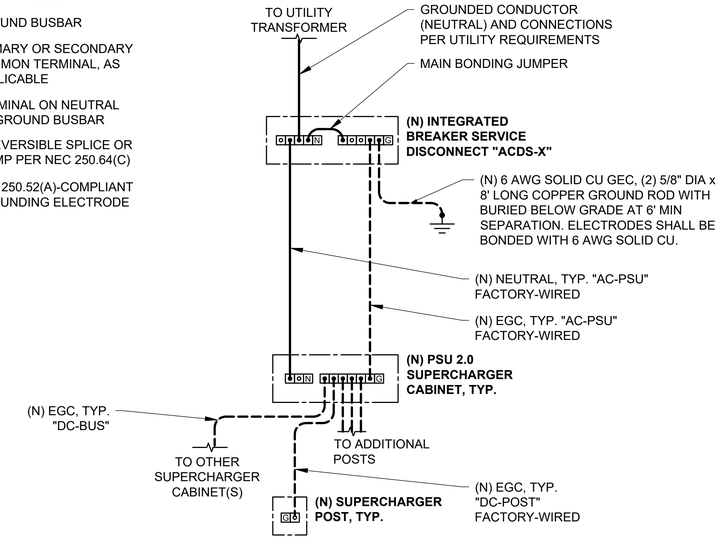
PSU INTEGRAL BREAKER		SUPERCHARGER CABINET BREAKERS
EATON PD-3 THERMAL-MAG TRIP UNIT (600A TRIP)	SQUARE D LJ W/ U31 TRIP UNIT (600A TRIP)	ABB/ GE SPECTRA RMS ELECTRONIC TRIP (600A TRIP)
INSTANTANEOUS (I): 5 (3000A)	LONG DELAY PICKUP (I): 1(600A) LONG TIME DELAY (t): 0.5s INSTANTANEOUS (I): 5 (3000A)	INSTANTANEOUS: LOW

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
- O — 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



B GROUNDING DIAGRAM - PSU

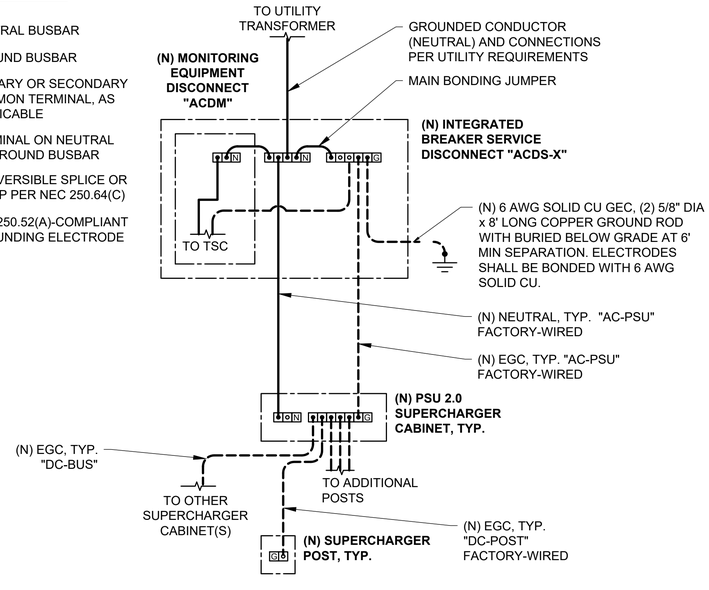
E501.1224 GROUNDING DIAGRAM - PSU DIRECT TO TRANSFORMER RA

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
- O — 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



A GROUNDING DIAGRAM - PSU WITH INTEGRATED TESLA SITE CONTROLLER

E501.1225 GROUNDING DIAGRAM - PSU WITH INTEGRATED TESLA SITE CONTROLLER RA

TESLA

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PALO ALTO, CA 94304
(650) 681-5000

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SHEET SIZE ARCH "D"

0 1/2" 1"

TESLA SUPERCHARGER_WAUKESHA
12 SUPERCHARGERS
1600 E MAIN ST
WAUKESHA, WI 53186

NO.	REVISION	DATE

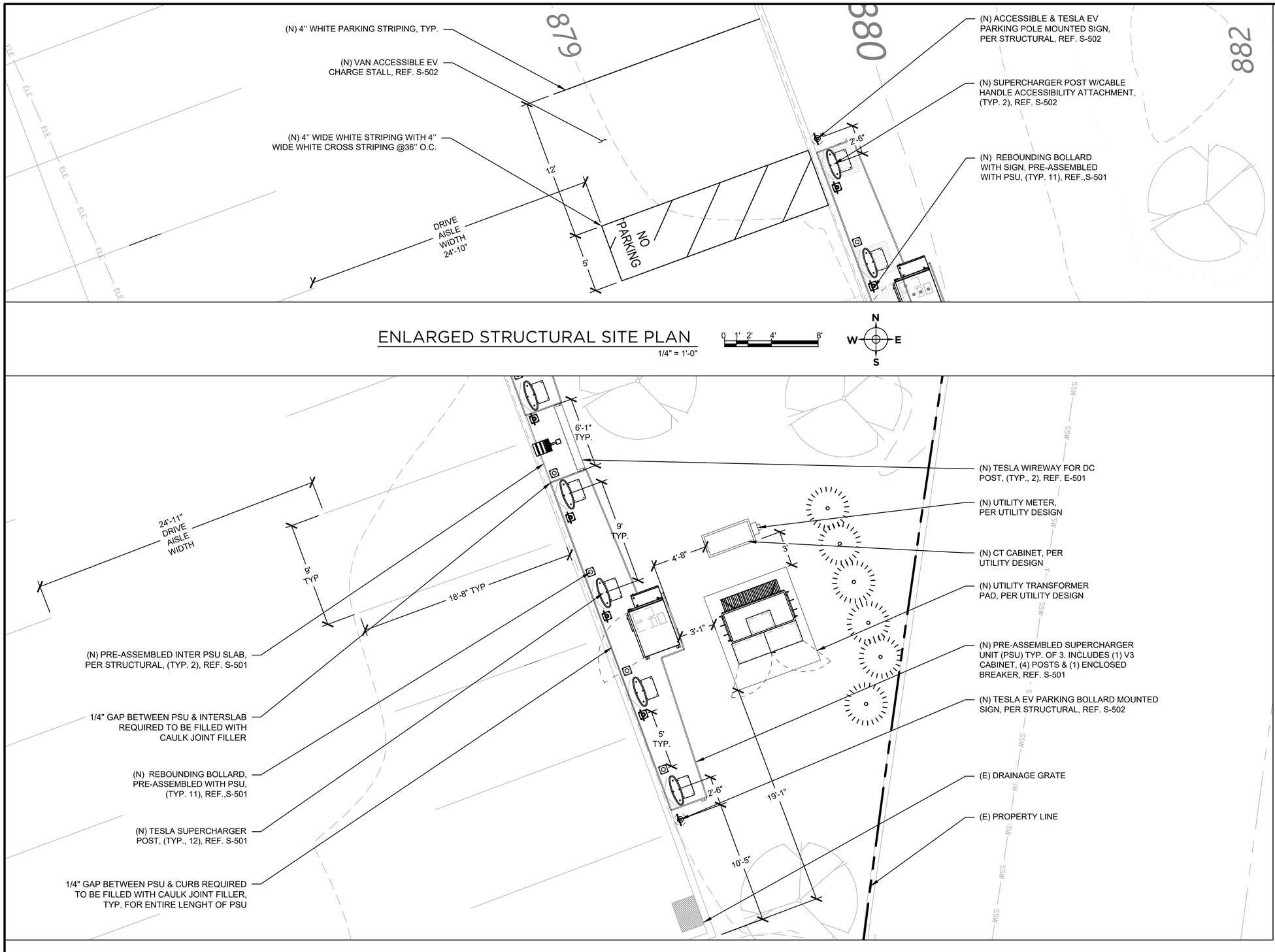
ELECTRICAL DETAILS

E-501

JB-531334-00

REV: 0 | IFP

PLOT DATE: 7/25/2022 4:16 PM CGARCIAHERNANDEZ



ENLARGED STRUCTURAL SITE PLAN

1/4" = 1'-0"

0 1' 2' 4' 8'

N W E S

ENLARGED STRUCTURAL SITE PLAN

1/4" = 1'-0"

0 1' 2' 4' 8'

N W E S

SITE LEGEND

- (N) SUPERCHARGER POST
- (N) BOLLARD SIGN
- (N) SURFACE MOUNTED SIGN
- (N) SURFACE BOLLARD
- (N) POLE-MOUNTED LIGHT FIXTURE
- (N) SHRUB TO MATCH EXISTING IN LIKE AND KIND

STRUCTURAL DESIGN CRITERIA:

DESIGN CODE:

- 2018 WI BUILDING CODE

DESIGN CRITERIA:

1. WIND DESIGN
   - DESIGN WIND SPEED = 115 MPH (ULTIMATE)
   - RISK CATEGORY = II
   - WIND EXPOSURE = C
2. SEISMIC DESIGN
   - RISK CATEGORY = II
   - SEISMIC IMPORTANCE FACTOR = 1.0
   - SITE CLASS = D
   - Ss = 0.088 / S1 = 0.047
   - Sds = 0.094 / Sd1 = 0.075
   - SEISMIC DESIGN CATEGORY = B
   - 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 = 30 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.

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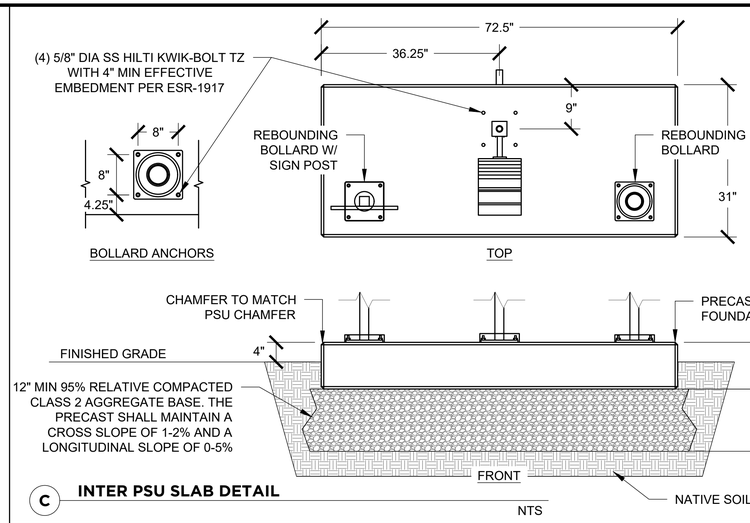
ENLARGED SITE PLAN

S-301

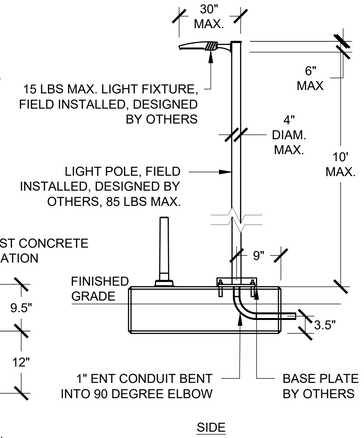
JB-531334-00

REV: 0 | IFP

PLOT DATE: 7/25/2022 4:16 PM CGARCIAHERNANDEZ



SEE CUTSHEETS FOR ADDITIONAL INFORMATION
PRECAST SLAB WEIGHT = 1,854 LBS

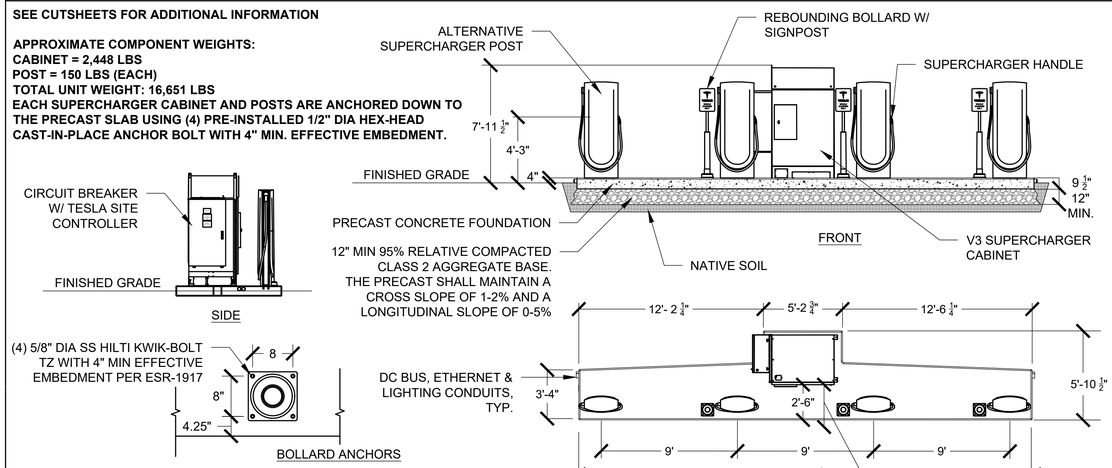


C INTER PSU SLAB DETAIL

NTS

SEE CUTSHEETS FOR ADDITIONAL INFORMATION

APPROXIMATE COMPONENT WEIGHTS:
CABINET = 2,448 LBS
POST = 150 LBS (EACH)
TOTAL UNIT WEIGHT: 16,651 LBS
EACH SUPERCHARGER CABINET AND POSTS ARE ANCHORED DOWN TO THE PRECAST SLAB USING (4) PRE-INSTALLED 1/2" DIA HEX-HEAD CAST-IN-PLACE ANCHOR BOLT WITH 4" MIN. EFFECTIVE EMBEDMENT.



B ALT POST PRE-ASSEMBLED SUPERCHARGER UNIT 2.0 DETAIL

5001.1301 ALTERNATIVE POST PRE-ASSEMBLED SUPERCHARGER UNIT 2.0 DETAIL RA

NTS

SEE CUTSHEETS FOR ADDITIONAL INFORMATION

APPROXIMATE COMPONENT WEIGHTS:
CABINET = 2,448 LBS
POST = 140 LBS (EACH)
TOTAL UNIT WEIGHT: 16,611 LBS
EACH SUPERCHARGER CABINET AND POSTS ARE ANCHORED DOWN TO THE PRECAST SLAB USING (4) PRE-INSTALLED 1/2" DIA HEX-HEAD CAST-IN-PLACE ANCHOR BOLT WITH 4" MIN. EFFECTIVE EMBEDMENT.

A V3 PRE-ASSEMBLED SUPERCHARGER UNIT 2.0 DETAIL

5001.1307 V3 PRE-ASSEMBLED SUPERCHARGER UNIT 2.0 DETAIL RA

NTS

CONCRETE DESIGN

1. THIS DESIGN IS APPLICABLE TO CONDITIONS WHERE THE SNOW LOAD IS 30PSF OR GREATER.
2. CONCRETE STRENGTH -PROVIDE CONCRETE WITH THE FOLLOWING STRENGTHS AT THE LOCATIONS NOTED. MIX DESIGN, SLUMP, AIR ENTRAINMENT, AGGREGATE SIZE, ETC. SHALL BE IN CONFORMANCE WITH THE ACI CODE, LATEST EDITION.
   LOCATION: ANY
   STRENGTH AT 28 DAYS: 4500 PSI
   A. ALL CONCRETE AGGREGATE IS HARD ROCK UON
   B. DESIGN MIX SHALL CONTAIN 5-1/2 SACKS OF CEMENT, MIN.
   C. TYPE I/II CEMENT TO MEET ASTM C150.
   D. MAX AGGREGATE SIZE SHALL BE 3/4"
   E. MAX WATER/CEMENT RATIO SHALL BE 0.45
   F. MAX SLUMP SHALL BE 4"
   G. PROVIDE 6% AIR ENTRAINMENT, ADD MIXTURE IN SNOW STATES ONLY (MIN 6% +/- 1.5%)
3. 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)

4. FABRICATE AND PLACE REINFORCEMENT IN ACCORDANCE WITH ACI PUBLICATION SP-66, ACI DETAILING MANUAL - LATEST EDITION.
5. PLACE CONCRETE IN COMPLIANCE WITH ACI 304. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED.
6. 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"

7. 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.
8. MAX. CONTINUOUS SLAB LENGTH SHOULD NOT EXCEED 50 FT W/O EXPANSION JOINT

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NO.	REVISION	DATE

STRUCTURAL DETAILS

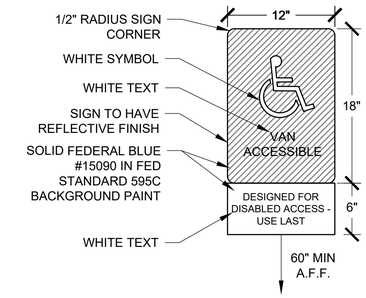
S-501

JB-531334-00

REV: 0 | IFP

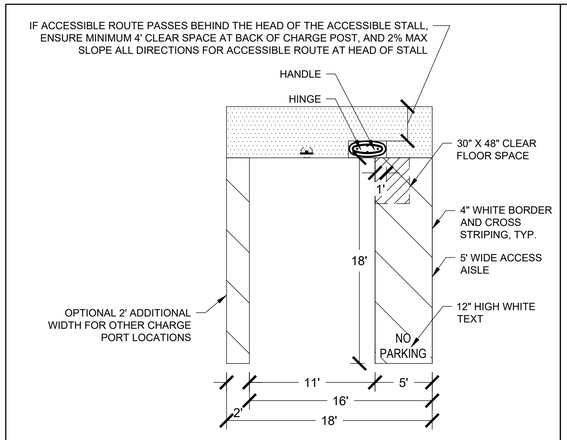
MOUNTING OPTIONS:
1. SIGN CAN BE INSTALLED ON WALL USING ANCHOR SYSTEM MATCHING WALL TYPE.
2. SIGN CAN BE POLE MOUNTED PER SPECIFICATIONS IN POLE MOUNTED SIGN DETAILS.

SIGN MATERIAL: ALUMINUM



B **TESLA EV STALL PARKING SIGN - VAN ACCESSIBLE**
A501.1119 TESLA EV STALL PARKING SIGN - VAN ACCESSIBLE RA
NTS

IF ACCESSIBLE ROUTE PASSES BEHIND THE HEAD OF THE ACCESSIBLE STALL, ENSURE MINIMUM 4' CLEAR SPACE AT BACK OF CHARGE POST, AND 2% MAX SLOPE ALL DIRECTIONS FOR ACCESSIBLE ROUTE AT HEAD OF STALL

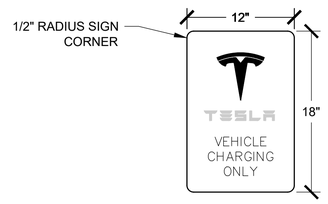


2% MAX SLOPE ALL DIRECTIONS AT ACCESSIBLE EV VEHICLE STALL AND ACCESS AISLE

E **VAN ACCESSIBLE PARKING STALL - TESLA STANDARD**
A501.1123 ACCESSIBLE PARKING STALL - TESLA STANDARD RA
NTS

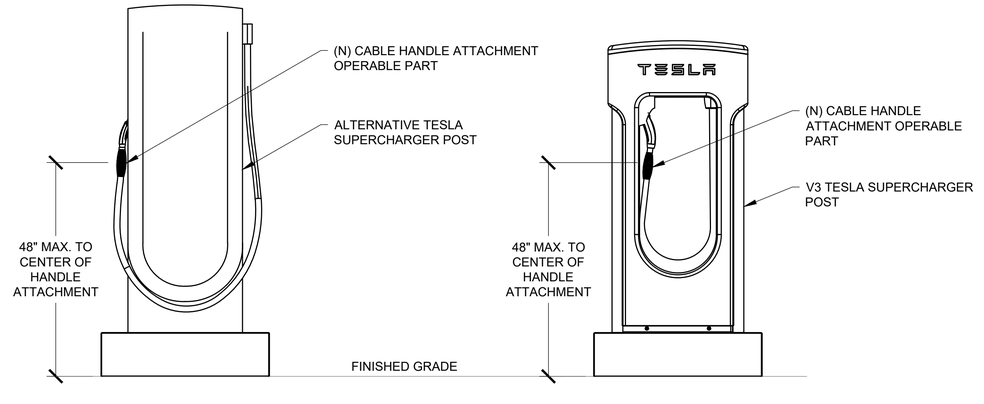
MOUNTING OPTIONS:
1. SIGN CAN BE INSTALLED ON WALL USING ANCHOR SYSTEM MATCHING WALL TYPE.
2. SIGN CAN BE POLE MOUNTED PER SPECIFICATIONS IN POLE MOUNTED SIGN DETAILS.

SIGN MATERIAL: ALUMINUM

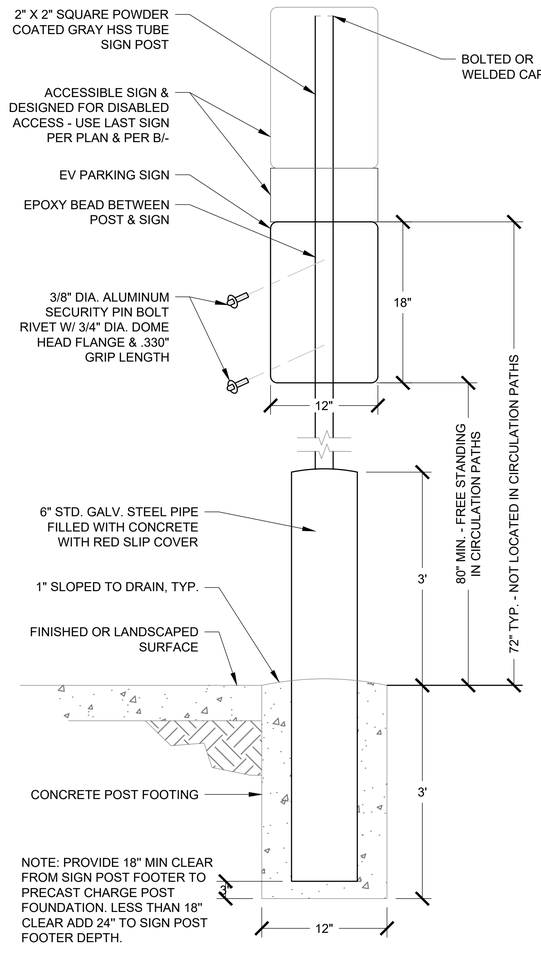


D **TESLA EV STALL PARKING SIGN**
A501.118 TESLA EV CHARGER SIGN DETAIL RD
NTS

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



C **CABLE HANDLE ACCESSIBILITY ATTACHMENT DETAIL**
A501.1117 CABLE HANDLE ACCESSIBILITY RA
NTS



A **BOLLARD MOUNTED EV SIGN**
A501.1105 BOLLARD MOUNTED ACCESSIBLE EV SIGN DETAIL RB
NTS

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JB-531334-00

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