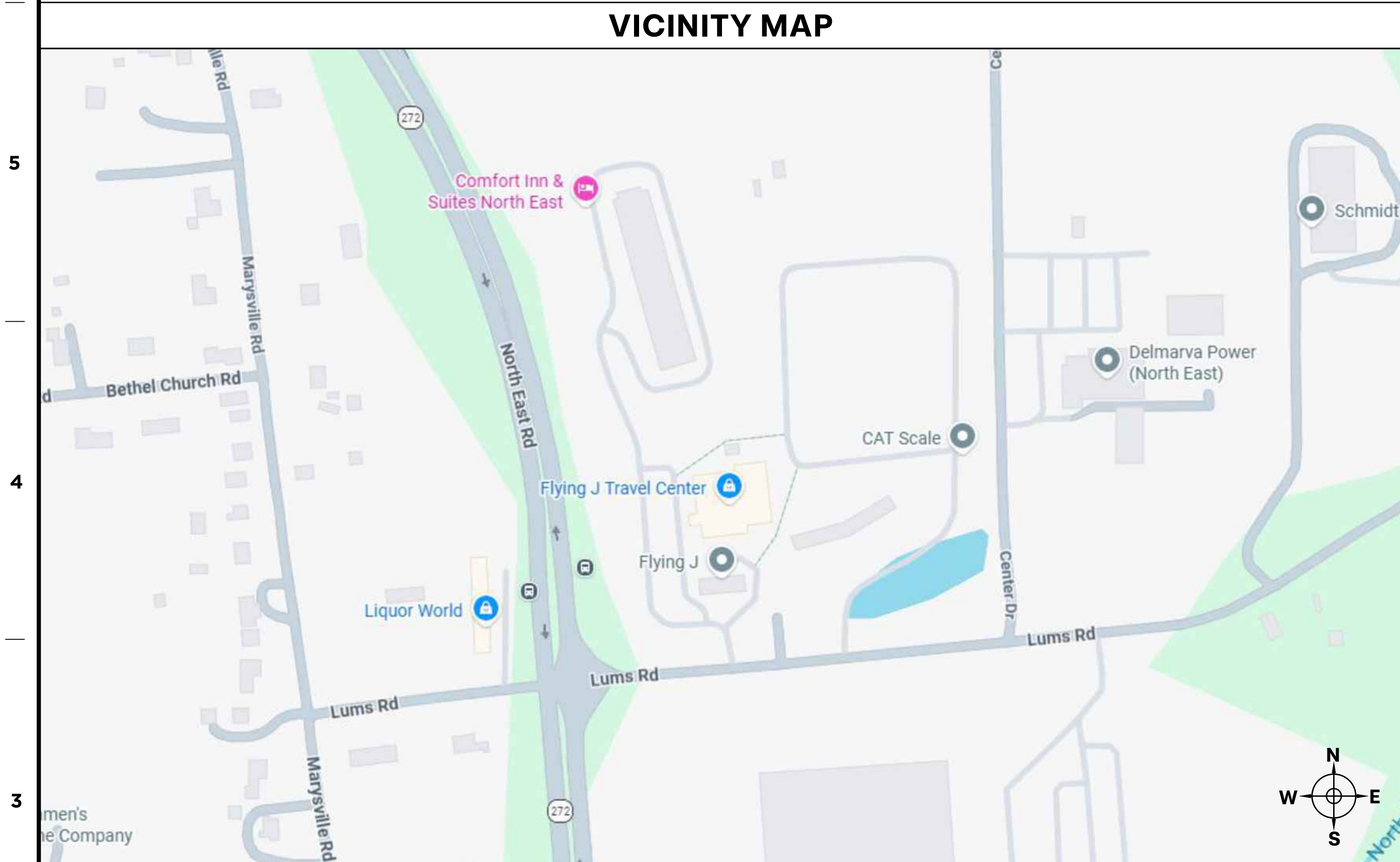


H | G | F | E | D | C | B | A

6

MEGACHARGER SYSTEM
NORTH EAST, MD - 1 CENTER DR
TRT: 477406



ABBREVIATIONS				PROJECT TEAM		DESIGN CRITERIA	PROJECT SCOPE	SYSTEM SUMMARY		SHEET INDEX							
2	AC	ALTERNATING CURRENT	LV	LOW-VOLTAGE	STRUCTURAL ENGINEER OF RECORD: YOO JIN KIM TESLA, INC. 129 GERBERA STREET, DANVILLE, CA 94506 M:(949)285-6177 YOKIM@TESLA.COM	ELECTRICAL ENGINEER OF RECORD: BILL LOU, PE, PH. D PAULICON CORPORATION 3463 ASHTON COURT PALO ALTO, CA 94306 (650) 269-6888 PAULICONEE@GMAIL.COM	1. WIND DESIGN - DESIGN WIND SPEED = 114 MPH (ULTIMATE) - RISK CATEGORY = II - WIND EXPOSURE = C 2. SEISMIC DESIGN - RISK CATEGORY = II - SEISMIC IMPORTANCE FACTOR = 1.0 - SITE CLASS = D - Ss = 0.175 / S1 = 0.046 - Sds = 0.187 / Sd1 = 0.073 - SEISMIC DESIGN CATEGORY = B - BASIC SEISMIC-FORCE-RESISTING SYSTEM = NON-STRUCTURAL COMPONENT - R = 2.5 / a_p = 1.0 3. GROUND SNOW LOAD = 25 PSF	INSTALLATION OF (6) CHARGING POSTS AND ASSOCIATED AC AND DC EQUIPMENT. INSTALLATION OF NEW PARKING STRIPING. INSTALLATION OF EQUIPMENT PADS. INSTALLATION OF NEW LED LIGHTING.	MEGACHARGER SYSTEM SUMMARY		SHEET #	SHEET TITLE					
	ADA	AMERICANS WITH DISABILITIES ACT	LVDC	LOW VOLTAGE DIRECT CURRENT					EQUIPMENT				QTY	G-001	COVER PAGE		
	AFF	ABOVE FINISH FLOOR	MAX	MAXIMUM									G-002	NOTES			
	BLDG	BUILDING	MIN	MINIMUM									G-101	DEMOLITION PLAN			
	CLR	CLEAR	MV	MEDIUM-VOLTAGE									E-101	ELECTRICAL SITE PLAN			
	COMM	COMMUNICATION	(N)	NEW									E-201	SINGLE LINE DIAGRAM			
	CONC	CONCRETE	NEC	NATIONAL ELECTRIC CODE									E-202	SINGLE LINE DIAGRAM			
	DC	DIRECT CURRENT	NIC	NOT IN CONTRACT									E-501	DETAILS			
	DIA	DIAMETER	NRTL	NATIONALLY-RECOGNIZED									E-502	DETAILS			
	DIST	DISTANCE		TESTING LABORATORY									S-301	ENLARGED SITE PLAN			
(E)	EXISTING	NTS	NOT TO SCALE	PROJECT DESIGNER: KYLE PECEVICH TESLA, INC. 2562 BOULEVARD OF THE GENERALS, SUITE 200, NORRISTOWN, PA 19403 (860) 924-7015 KPECEVICH@TESLA.COM													
EA.	EACH	OC	ON CENTER													S-501	STRUCTURAL DETAILS
EGC	EQUIPMENT GROUNDING CONDUCTOR	OTL	ON THE LINE													S-502	STRUCTURAL DETAILS
EMT	ELECTRICAL METALLIC TUBING	PCC	POINT OF COMMON COUPLING														
EQ	EQUAL	PL	PROPERTY LINES														
ERMS	ENERGY REDUCTION	PLC	POWER LINE COMMUNICATION														
ESS	MAINTENANCE SETTINGS	POE	POWER OVER ETHERNET														
EV	ENERGY STORAGE SYSTEM	PP	POWERPACK														
GALV	ELECTRIC VEHICLE	PSU	PRE-ASSEMBLED														
GEC	GALVANIZED	PV	PHOTOVOLTAIC														
1	GND	GROUNDING ELECTRODE	PVC	POLYVINYL CHLORIDE													
	HVAC	CONDUCTOR	RSD	RAPID SHUTDOWN													
		GROUND FAULT PROTECTOR	SCCR	SHORT CIRCUIT CURRENT													
		GROUND	RATING	RATING													
		HEATING, VENTILATION, & AIR CONDITIONING	SCH	SCHEDULE													
	I	CURRENT	SQ. IN.	SQUARE INCHES													
	IMP	CURRENT AT MAX POWER	SS	STAINLESS STEEL													
	INV	INVERTER	SSBJ	SUPPLY SIDE BONDING JUMPER													
	ISC	SHORT CIRCUIT CURRENT	SSD	SEE STRUCTURAL DRAWINGS													
	KVA	KILOVOLT AMPERE	STC	STANDARD TESTING CONDITIONS													
KW	KILOWATT		TYPICAL														
KWH	KILOWATT-HOUR	TYP	TYPICAL														
LOS	LINE OF SIGHT	UON	UNLESS OTHERWISE NOTED														
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS GROUND	VIF	VERIFY IN FIELD														
		W	WATT														

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 46201. Expiration Date: 12/11/2026

William K Lou Digitally signed by William K Lou
Date: 2026.07.06 14:49:57 -07'00'

K Lou Date: 2026.07.06
14:49:57 -07'00'

**TESLA MEGACHARGER
NORTH EAST, MD - 1 CENTER DR
1 CENTER DR
NORTH EAST, MD 21901, UNITED STATES**

[illegible]

COVER PAGE

G-001

JB-2191759-00

REV: 0 | IFP

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.

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.

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

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

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:

- | | | |
|---|------------------|------------------|
| 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 |

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.

8. ALL WIRES SHALL BE PROVIDED WITH STRAIN RELIEF AT ALL ENTRY INTO BOXES AS REQUIRED BY NRTL LISTING.

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

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.

15. ALL CONDUITS EXPOSED TO VEHICULAR OR EQUIVALENT PHYSICAL DAMAGE SHALL BE RIGID GALVANIZED STEEL.

- PLOT DATE: 6/26/2026 12:24 PM DBORJAJIMENEZ

17. THE GROUND-FAULT PROTECTION SYSTEM SHALL BE PERFORMANCE TESTED WHEN FIRST INSTALLED ON SITE. THIS TESTING SHALL BE CONDUCTED BY A QUALIFIED PERSON(S) USING A TEST PROCESS OF PRIMARY CURRENT INJECTION, IN ACCORDANCE WITH INSTRUCTIONS THAT SHALL BE PROVIDED WITH THE EQUIPMENT, A WRITTEN RECORD OF THIS TESTING SHALL BE MADE BE AVAILABLE TO THE AUTHORITY HAVING JURISDICTION.

1. ALL CONDUIT FURNISHED AND INSTALLED BY CONTRACTOR. ALL WIRING FURNISHED BY TESLA AND INSTALLED BY CONTRACTOR.
2. ALL BUSHINGS AND WIRING INTERNAL OF PROPOSED SERVICE EQUIPMENT PROVIDED BY MANUFACTURER. ANY MODIFICATIONS SHALL REQUIRE ENGINEERING APPROVAL PRIOR TO ANY CHANGES BEING MADE.
3. ALL ALUMINUM(AI) CONDUCTORS TO RECEIVE ANTI-OXIDATION COATING DURING INSTALLATION. ALL OTHER CONDUCTORS ARE COPPER UNLESS OTHERWISE NOTED.
4. THE FOLLOWING CHARGING CABINETS AND THE CHARGING POSTS USED ON THIS PROJECT COMPLY WITH THE FOLLOWING STANDARDS:
 - UL 2202: 2009(R2012)
 - CAN CSA C22.2 NO. 107.1-01(R2011)

- PROTECTION AGAINST ELECTRIC SHOCK
- OVERLOAD AND SHORT CIRCUIT PROTECTION
- FAULT PROTECTION

- THE INTERNAL COMPONENTS OF THE SYSTEM ARE PROPRIETARY. ANY QUESTIONS CONCERNING ACTUAL INTERNAL PROTECTIVE DEVICES MUST BE COORDINATED DIRECTLY WITH TESLA.

7. MEGACHARGER CABINET AC CONDUCTORS SIZED UNDER ENGINEERING SUPERVISION USING THERMAL MODELING SOFTWARE. SPECIFICATIONS ABOUT THE TRENCHING REQUIREMENTS ARE SHOWN IN E-501

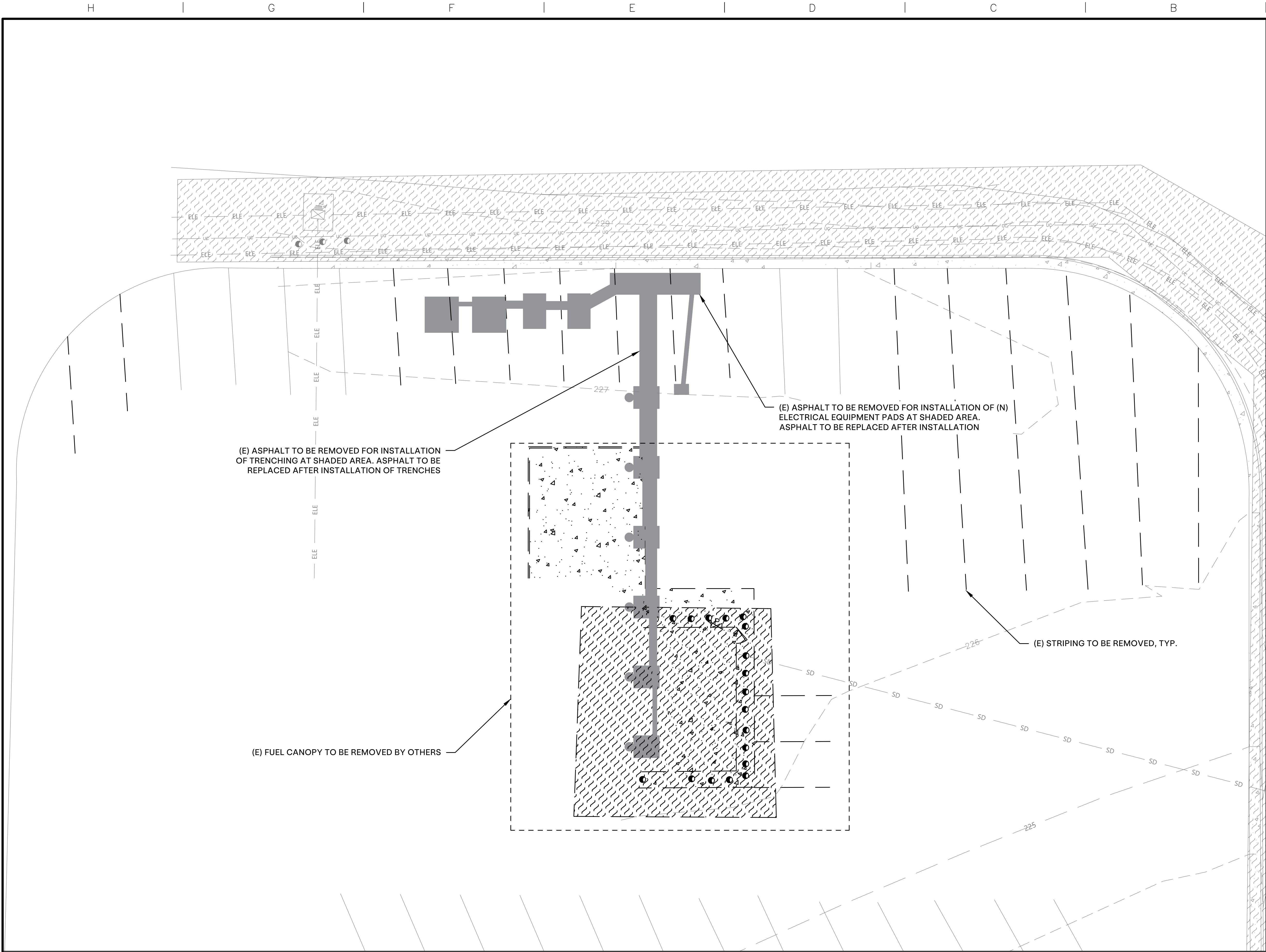
9. UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC. THE ABOVEGROUND PORTION OF AN UNDERGROUND/ABOVEGROUND TRANSITION SHALL BE SCHEDULE 80 PVC.

11. WIRE SPLICES ARE NOT PERMITTED TO EXTEND WIRE RUN LENGTH. CONTRACTOR IS RESPONSIBLE FOR RERUNNING FULL LENGTH OF WIRE IF RUN LENGTH IS MISCALCULATED.

	SANITARY MANHOLE
	STORM INLET (RECTANGLE)
	FIRE HYDRANT
	LIGHT POLE
	ELECTRIC TRANSFORMER
	ELECTRIC BOX
	COMMUNICATION PEDESTAL
	EMERGENCY SHUT-OFF SWITCH
	DECIDUOUS TREE
	BOLLARD
	FENCE GATE
	STORM LINE (UNDERGROUND)
	SANITARY LINE (UNDERGROUND)
	WATER LINE (UNDERGROUND)
	ELECTRIC LINE (UNDERGROUND)
	COMMUNICATION LINE (UNDERGROUND)
	CHAIN LINK FENCE
	TREE DRIP EDGE
	SNOW COVER
	CONCRETE AREA
	RIP-RAP AREA

[illegible]

G-002	
JB-2191759-00	
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DEMOLITION PLAN

3/32" = 1'-0"

0' 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

X

ANY (E) OBJECT TO BE DEMOLISHED

ANY (E) ELEMENT TO BE REMOVED

■

HARDSCAPED AREA TO BE MODIFIED

TESLA

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

ORIGINAL SIZE 24"x36"
SHEET SIZE ARCH "D"

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland. License No. 46201. Expiration Date: 12/11/2026

TESLA MEGACHARGER
NORTH EAST, MD - 1 CENTER DR
1 CENTER DR
NORTH EAST, MD 21901, UNITED STATES

NO.	REVISION	DATE

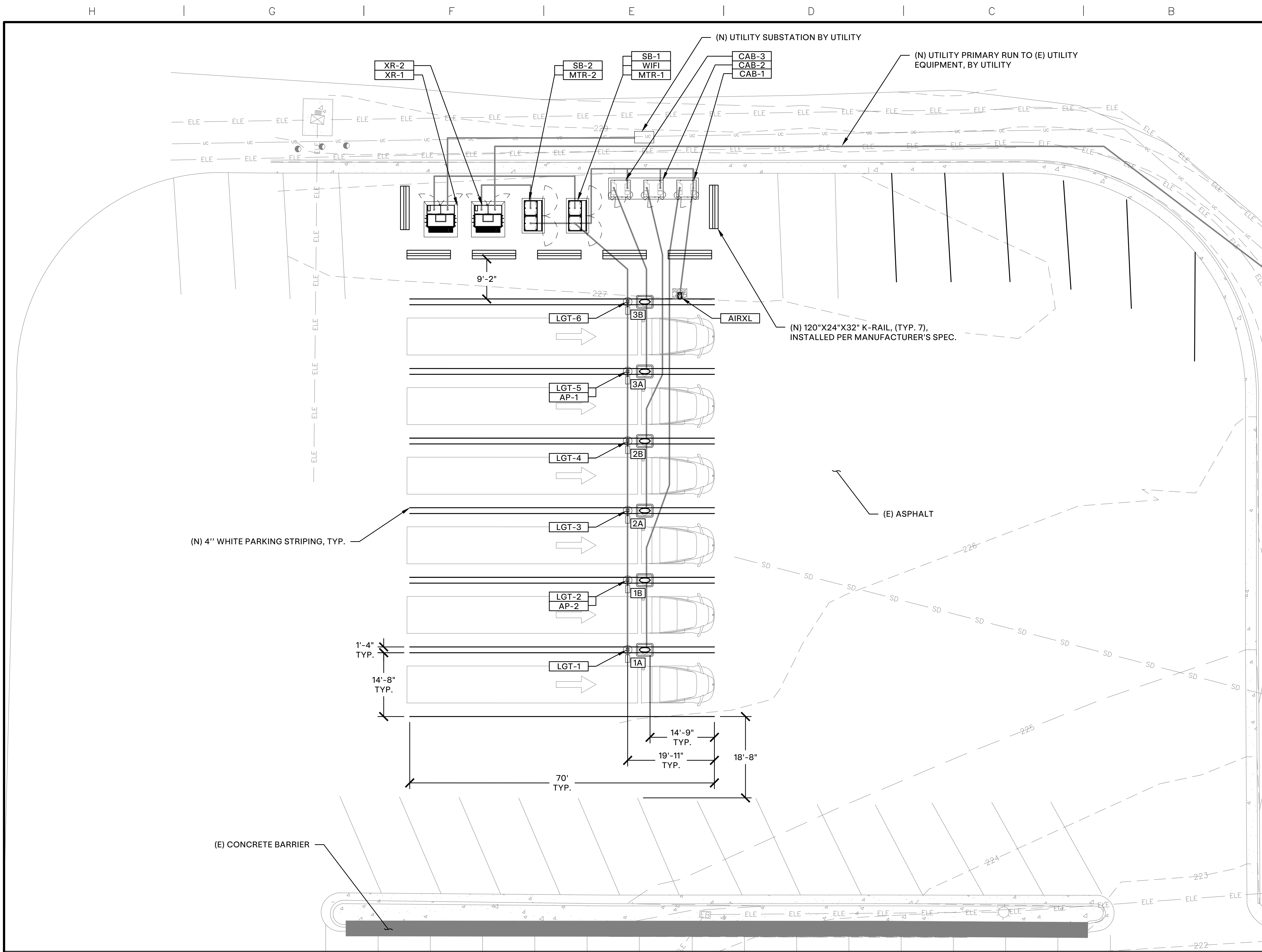
DEMOLITION PLAN

G-101

JB-2191759-00

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SITE LEGEND

- (N) CHARGE POST
- (N) K-RAIL
- (N) UNDERGROUND CIRCUIT FOR POWER (DIAGRAMMATIC PURPOSES ONLY)
- (N) POLE-MOUNTED LIGHT FIXTURE
- TRUCK CHARGING FOR REPRESENTATION

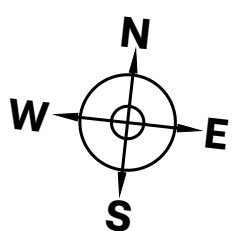
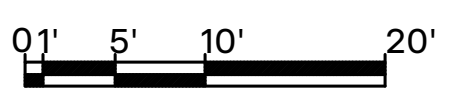
PARKING STALL SCHEDULE

EXISTING STANDARD STALLS UTILIZED AS A RESULT OF THIS PROJECT	7
PROPOSED TESLA STALLS	6
PROPOSED STANDARD STALLS	0
NET STALL COUNT	-1

MINIMUM SERVICE CLEARANCES

- SERVICE SIDE
- CHARGE POST
- CHARGE HANDLE
- 1'-6"
- 5'
- SWITCHBOARD
- 4'
- V4 CABINET
- 5'
- 3'
- 5'
- TRANSFORMER
- FROM PAD EDGE 3' ON ALL SIDES AND 8' FROM FRONT (VERIFY WITH UTILITY STANDARDS)

ELECTRICAL SITE PLAN
3/32" = 1'-0"



- EQUIPMENT TAGS**
- XR-# TRANSFORMER (PROVIDED BY UTILITY PER UTILITY DESIGN)
 - SB-# SWITCHBOARD
 - CAB-# MEGACHARGER CABINET
 - LGT-# LIGHT FIXTURE
 - MTR-# UTILITY METER (PROVIDED BY UTILITY PER UTILITY DESIGN)
 - #X MEGACHARGER POST
 - WIFI WIFI BROADCAST UNIT
 - AP-# SUPPLEMENTARY ACCESS POINT
 - AIRXL TESLA TIRE PUMP

3500 DEER CREEK RD.
PALO ALTO, CA 94304
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TESLA MEGACHARGER
NORTH EAST, MD - 1 CENTER DR
1 CENTER DR
NORTH EAST, MD 21901, UNITED STATES

NO.	REVISION	DATE

ELECTRICAL
SITE PLAN

E-101

JB-2191759-00

REV: 0 IFP

6

5

4

3

2

1

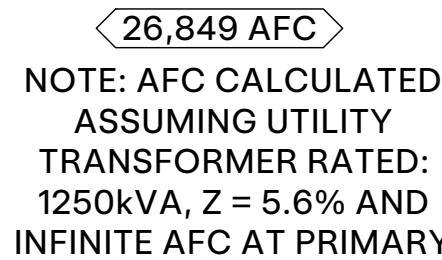
SWITCHBOARD "SB-1" LOAD SCHEDULE												
CKT NO	TRIP AMPS	DESCRIPTION	VOLT-AMPS				VOLT-AMPS			DESCRIPTION	TRIP AMPS	CKT NO
			A	B	C		A	B	C			
1	1600	CAB-3	415,500	-	-		1760	-	-	CONTROLS	20	2
3	"	"	-	415,500	-		-	1760	-	"	"	4
5	"	"	-	-	415,500							6
7	15	SPARE										8
TOTALS		PHASE	A	B	C							
		APPARENT POWER	416 kVA	416 kVA	416 kVA							
		CURRENT	1,500 A	1,500 A	1,500 A							

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UNITED STATES

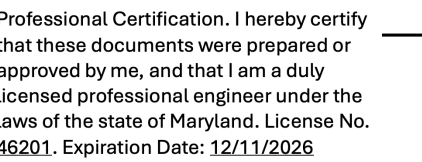
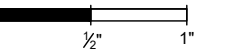
PLACARDS TO BE MADE OF RED
PHENOLIC PLASTIC W/ 1" WHITE
LETTERING. ATTACH PLACARDS WITH
RIVETS OR SELF-TAPPING SCREWS
ADDITIONAL PLACARDS REQUIRED
FOR ARC FLASH LABELS

	BUSSING		WYE TRANSFORMER WINDING
	CONDUCTORS		GROUNDING WYE TRANSFORMER WINDING
	SHIELDED CAT6 CABLE		EQPT. ENCLOSURES
	CIRCUIT BREAKER		METER
	SWITCH		SHUNT TRIP
	FUSE		AC-DC OR DC-AC CONVERTER
	CURRENT TRANSFORMER		LIGHT WITH MOTION AND PHOTO SENSOR
	POWER TRANSFORMER		WIFI CONNECTION
	DELTA TRANSFORMER WINDING		
	DELTA HIGH-LEG TRANSFORMER WINDING		

CIRCUIT #	CONDUCTOR METAL UON	# OF CONDUITS	# PHASE CONDUCTORS PER CONDUIT	PHASE CONDUCTOR SIZE	NEUTRAL CONDUCTOR SIZE	EGC	MAX CIRCUIT LENGTH	WIRE TYPE	CONDUIT TYPES	MIN CONDUIT SIZE (IN)
AC-SB	AL	6	3	750 KCMIL	3/0 AWG	-	600'	3/C XHHW-2, PVC JACKET	PVC, RMC, EMT, DIRECT-BURY	4
AC-CAB	AL	6	3	750 KCMIL	-	400 KCMIL	600'	3/C XHHW-2, PVC JACKET	PVC, RMC, EMT, DIRECT-BURY	4



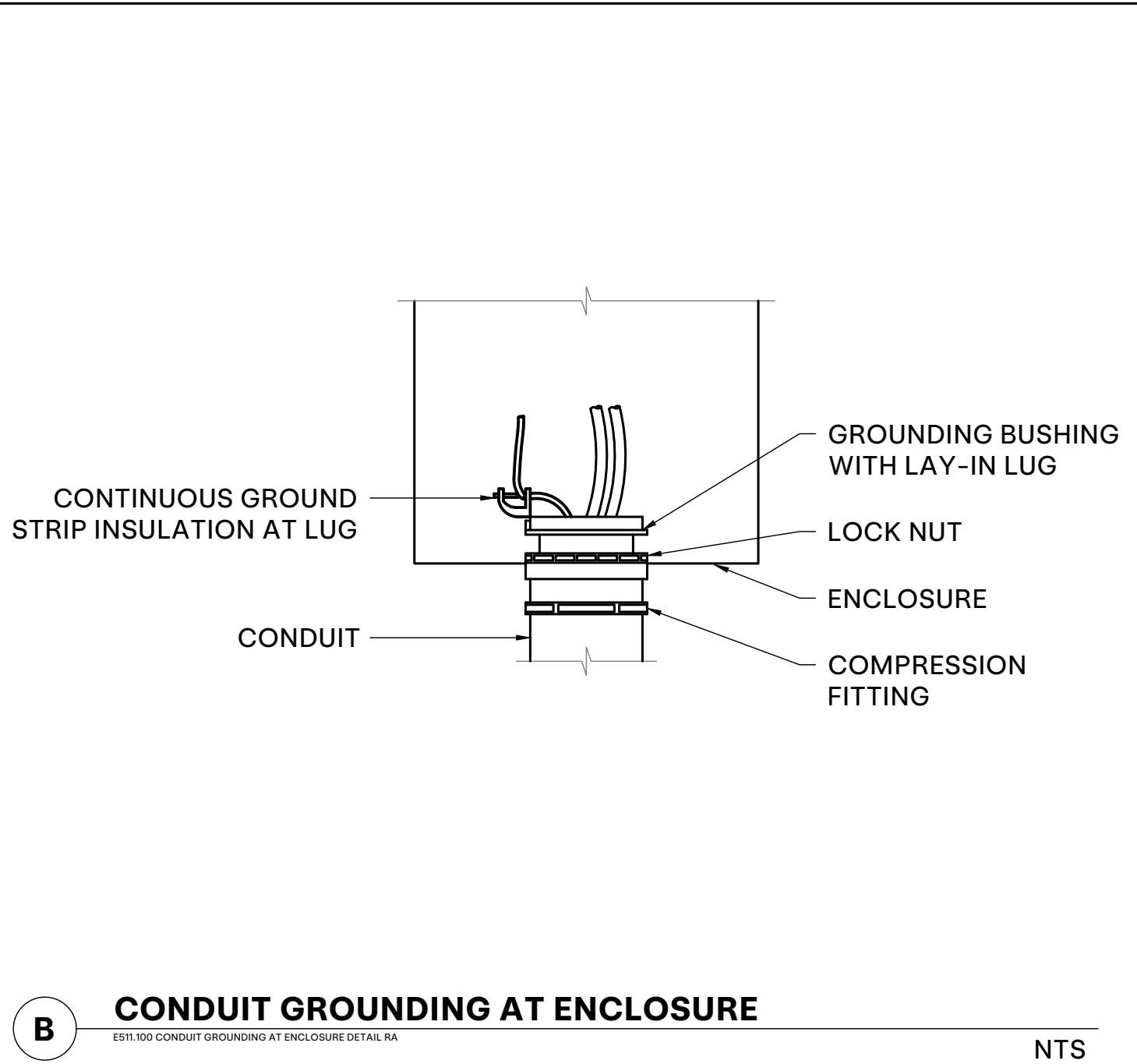
1	(N) UTILITY TRANSFORMER "XR-2" • SIZE & PRIMARY VOLTAGE PER UTILITY • SECONDARY 480Y/277V
2	(N) MAIN SWITCHBOARD "SB-2" • 480/277VAC, 2000A • 2000A MAIN BREAKER, 100%-RATED, LSIg, ERMS & 120VAC SHUNT TRIP PROVISION • 65 kAIC • NEMA 3R
3	(N) UTILITY METER
4	(N) MEGACHARGER SYSTEM (1) V4 MEGACHARGER CABINET "CAB-#" PER SYSTEM • COMMUNICATIONS COMPARTMENT INTEGRATED • 480VAC, 3PH, 3W • 1500A MAX AC INPUT • 65 kA SCCR (2) TESLA MEGACHARGER POST "#X" PER SYSTEM • 1200KW DC, NOMINAL 1000VDC • UL2202, CSA C22.2#107.1, FCC, ICES-003-B EQUIPMENT WIRING "DC-POST" FROM CABINET TO MEGACHARGER POST • 2 SET PER CHARGE POST • (4) 750KCMIL AL (2 POS, 2 NEG) • (1) 4/0AWG AL OR 2/0AWG CU EGC • TESLA PROVIDED SIGNAL WIRE • 330" MAX CIRCUIT LENGTH • XHHW-2, 1000V RATED • MIN 4" CONDUIT (PVC, RMC, EMT OR HDPE) OR DIRECT BURIAL • (1) MEGACHARGER SYSTEMS
5	(N) CONTROL POWER TRANSFORMER "CPT" • 3KVA • PRIMARY: 480VAC, 1PH, 2W • SECONDARY: 240/120 VAC, 1PH, 3W • PROVIDED BY VENDOR & INTEGRATED INTO SWITCHBOARD
6	(N) ETHERNET SWITCH • 8 PORT ETHERNET UNMANAGED SWITCH • UNIT PRE-INSTALLED IN SWITCHBOARD • (2) TOTAL ETHERNET SWITCH(S)



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1 CENTER DR
NORTH EAST, MD 21901, UNITED STATES**

[illegible]

IFP



B CONDUIT GROUNDING AT ENCLOSURE

800 500 CONDUIT GROUNDING AT ENCLOSURE DETAIL 5A

NTS

MAIN SWITCHBOARD "SB-1", 3000AF/3000AT MCB - ZPOWER			
DESIGNATION	FRAME AMPS	MAIN BREAKER	FEEDER BREAKER
	AIC kA	3,000	2,000
FRAME	MFR	SCHNEIDER	SCHNEIDER
	TYPE MODEL	NW30H	NW20H
TRIP UNIT	SENSOR AMPS	3,000	2,000
	PLUG AMPS	3,000	2,000
	FUNCTIONS	LSIG	LSIG
	TYPE/MODEL	MICROLOGIC 6.0P	MICROLOGIC 6.0P
TRIP UNIT SETTINGS (4000A TRIP)	LONG PICKUP $I_L(xI_r)$	1 (3,000A)	1 (2,000A)
	LONG TIME $t_L(s)$ @ $6xI_r$	0.5	0.5
	SHORT PICKUP $I_{sd}(xI_r)$	1.5 (4,500A)	1.5 (3,000A)
	SHORT TIME $t_{sd}(s)$	0.4, I^2t OFF	0.1, I^2t OFF
	INSTANTANEOUS PICKUP $I_i(xI_h)$	4 (12,000A)	2 (4,000A)
	GROUND FAULT PICKUP $I_g(xI_h)$	J (1,200A)	GFP (500-1200A) F (960A)
	GROUND FAULT TIME $t_g(s)$	0.4 I^2t OFF	GFD (0-0.4) 0.3 (I^2t T OFF)

A BREAKER SETTINGS

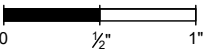
8001 632 BREAKER SETTINGS RB

MAIN SWITCHBOARD "SB-2", 2000AF/2000AT MCB - ZPOWER		
DESIGNATION	FRAME AMPS	MAIN BREAKER
	AIC kA	2,000
FRAME	MFR	SCHNEIDER
	TYPE MODEL	NW20H
TRIP UNIT	SENSOR AMPS	2,000
	PLUG AMPS	2,000
	FUNCTIONS	LSIG
	TYPE/MODEL	MICROLOGIC 6.0P
TRIP UNIT SETTINGS (4000A TRIP)	LONG PICKUP $I_L(xI_r)$	1 (2,000A)
	LONG TIME $t_L(s)$ @ $6xI_r$	0.5
	SHORT PICKUP $I_{sd}(xI_r)$	1.5 (3,000A)
	SHORT TIME $t_{sd}(s)$	0.1, I^2t OFF
	INSTANTANEOUS PICKUP $I_i(xI_h)$	2 (4,000A)
	GROUND FAULT PICKUP $I_g(xI_h)$	GFP (500-1200A) F (960A)
	GROUND FAULT TIME $t_g(s)$	GFD (0-0.4) 0.3 (I^2t T OFF)

TESLA

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

ORIGINAL SIZE 24"X36"
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NORTH EAST, MD - 1 CENTER DR
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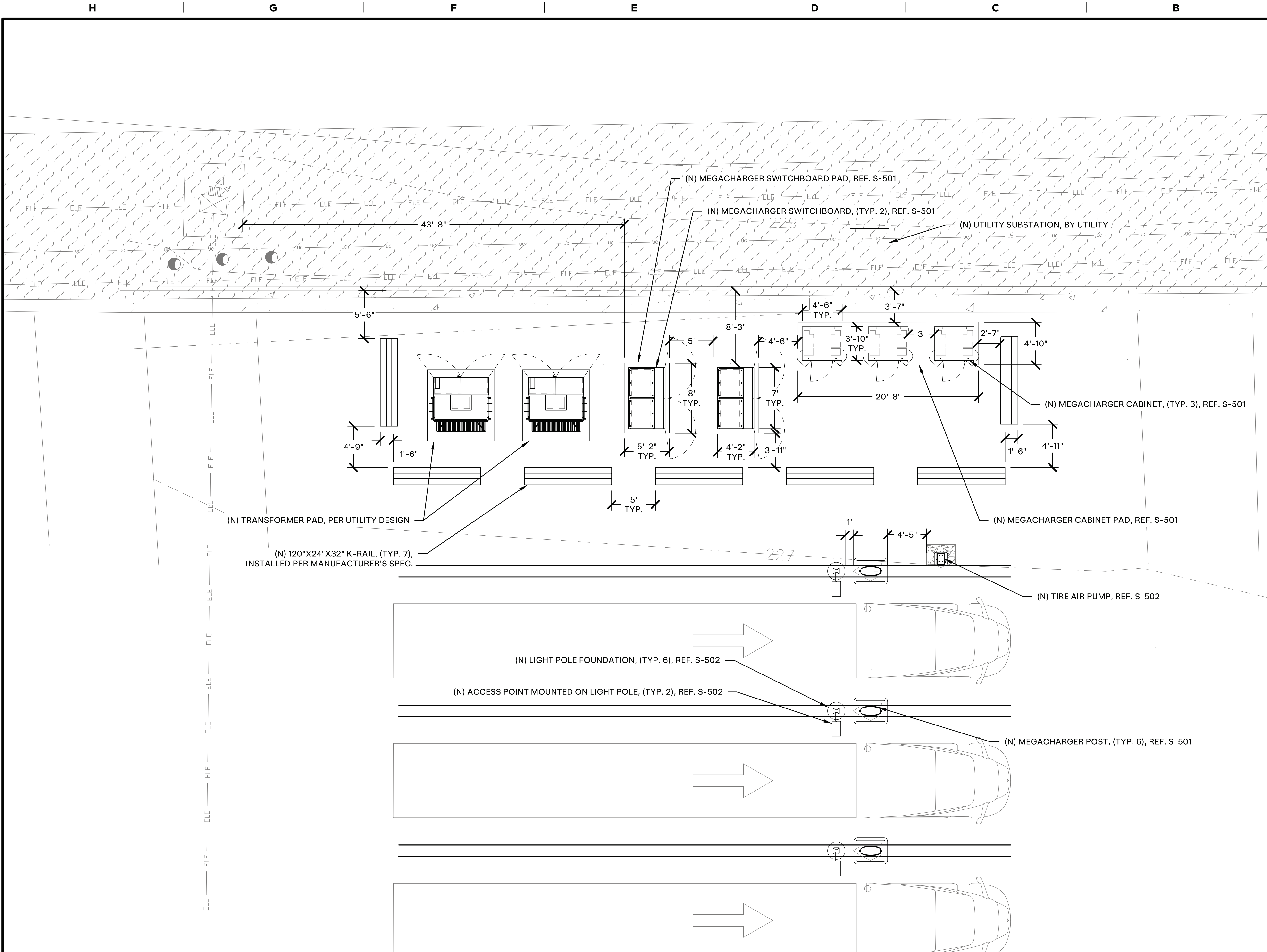
ELECTRICAL
DETAILS

E-502

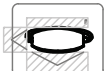
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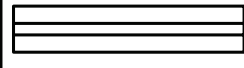
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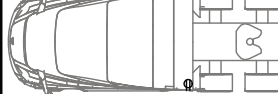


SITE LEGEND

(N) CHARGE POST

(N) K-RAIL

(N) POLE-MOUNTED LIGHT FIXTURE

TRUCK CHARGING FOR REPRESENTATION

STRUCTURAL DESIGN CRITERIA:

DESIGN CODE:

- 2021 IBC

DESIGN CRITERIA:

1. WIND DESIGN

- DESIGN WIND SPEED = 114 MPH (ULTIMATE)
- RISK CATEGORY = II
- WIND EXPOSURE = C

2. SEISMIC DESIGN

- RISK CATEGORY = II
- SEISMIC IMPORTANCE FACTOR = 1.0
- SITE CLASS = D
- $S_s = 0.175$ / $S_1 = 0.046$
- $S_{ds} = 0.187$ / $S_{d1} = 0.073$
- 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

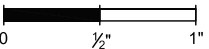
4. SNOW LOAD

- GROUND SNOW LOAD = 25 PSF



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

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





Yoo Jin Kim
Kim

Professionally signed by Yoo Jin Kim
Date: 2026.07.14 07:44:41 -0700

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 46642, Expiration Date: 4/12/2027

TESLA MEGACHARGER
NORTH EAST, MD - 1 CENTER DR
1 CENTER DR
NORTH EAST, MD 21901, UNITED STATES

NO.	REVISION	DATE

ENLARGED SITE PLAN

S-301

JB-2191759-00

REV: 0	IFP
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