

TESLA SUPERCHARGERS_SIMON MALL

12 SUPERCHARGERS

APN: 46-24-0

TESLA

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

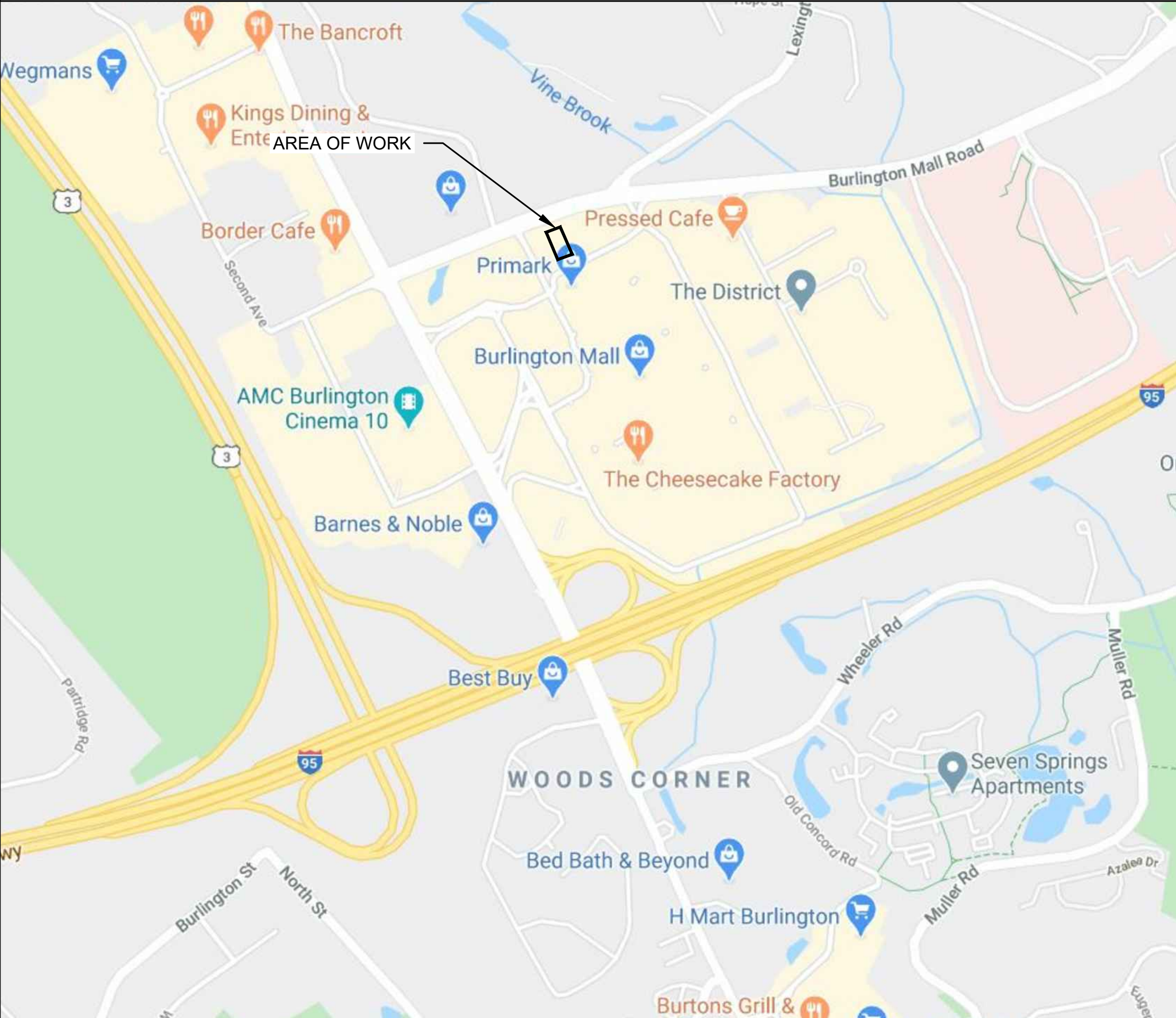
ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

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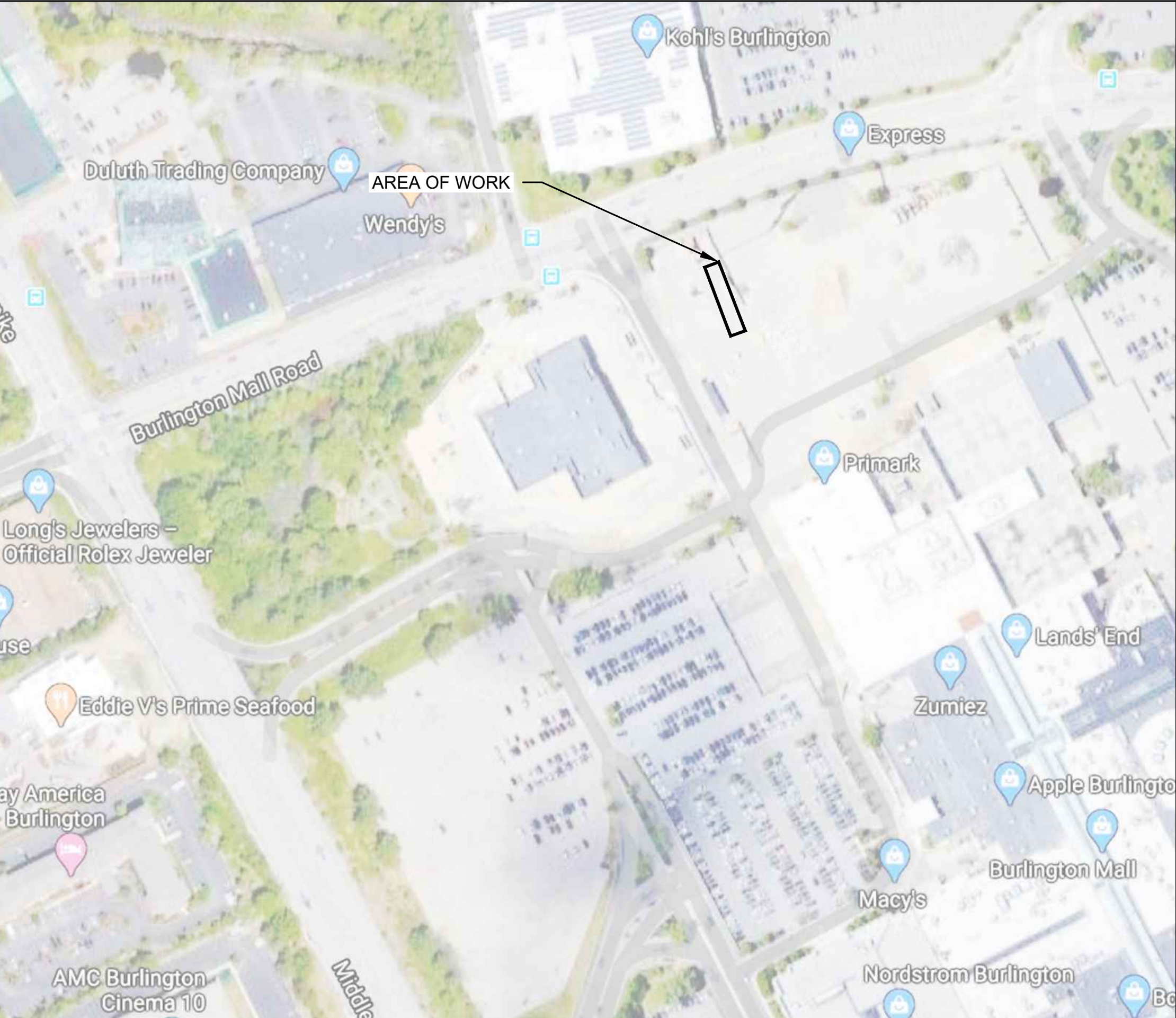
20'

1"

VICINITY MAP



AERIAL MAP



SYSTEM SUMMARY

SUPERCHARGER SYSTEM SUMMARY	
V3 SUPERCHARGER CABINETS	3
V3 SUPERCHARGER POSTS	12
UTILITY TRANSFORMER	1
1600 A SWITCHBOARD	1

TESLA SUPERCHARGERS_SIMON MALL

12 SUPERCHARGERS

TESLA SUPERCHARGERS_SIMON MALL

75 MIDDLESEX TURNPIKE

BURLINGTON, MA 01803

NO.	REVISION	DATE							

COVER PAGE

G-001	
JB-0185366-00	
REV: 0	CD90

ABBREVIATIONS

AC	ALTERNATING CURRENT	MV	MEDIUM-VOLTAGE
ADA	AMERICANS WITH DISABILITIES ACT	(N)	NEW
BESS	BATTERY ENERGY STORAGE SYSTEM	NEC	NATIONAL ELECTRIC CODE
BLDG	BUILDING	NIC	NOT IN CONTRACT
CLR	CLEAR	NRTL	NATIONALLY-RECOGNIZED TESTING LABORATORY
CONC	CONCRETE	NTS	NOT TO SCALE
DC	DIRECT CURRENT	OC	ON CENTER
DIA	DIAMETER	PCC	POINT OF COMMON COUPLING
DIST	DISTANCE	PL	PROPERTY LINES
EQ	EQUAL	PV	PHOTOVOLTAIC
EGC	EQUIPMENT GROUNDING CONDUCTOR	PP	POWERPACK
(E)	EXISTING	PVC	POLYVINYL CHLORIDE
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 CONDITIONS
GEC	GROUNDING ELECTRODE CONDUCTOR	TYP	TYPICAL
GND	GROUND	UON	UNLESS OTHERWISE NOTED
HVAC	HEATING, VENTILATION, & AIR CONDITIONING	VIF	VERIFY IN FIELD
I	CURRENT	W	WATT
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

ELECTRICAL ENGINEER OF RECORD: MARK DEGASPARRE TESLA, INC. 336 CLUBHOUSE ROAD, HUNT VALLEY, MD, 21031 P:(410)960-2267 M:(410)960-2267 MDEGASPARRE@TESLA.COM	STRUCTURAL ENGINEER OF RECORD: YOO JIN KIM TESLA, INC. 1216 STEALTH STREET, LIVERMORE, CA 94551 P:(925)292-2724, M:(949)285-6177 YOKIM@TESLA.COM
	PROJECT DESIGNER: ROHIT PATIL TESLA, INC. 3500 DEER CREEK RD. PALO ALTO, CA 94304 (857) 205 4088 ROPATIL@TESLA.COM

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.

PROJECT SCOPE

INSTALLATION OF SUPERCHARGERS AND ASSOCIATED AC AND DC EQUIPMENT.

INSTALLATION OF CONCRETE EQUIPMENT PADS AND FIBERGLASS SWITCH VAULT.

INSTALLATION OF NEW PARKING STRIPING, SIGNAGE.

SHEET INDEX

SHEET #	SHEET TITLE
G-001	COVER PAGE
A-101	DEMOLITION PLAN
A-102	SITE PLAN
A-501	DETAILS
E-001	NOTES
E-101	ELECTRICAL SITE PLAN
E-201	SINGLE LINE DIAGRAM
E-311	DETAILED PLAN VIEW
E-501	ELECTRICAL DETAILS
E-701	LABELS
S-101	STRUCTURAL SITE PLAN
S-501	STRUCTURAL DETAILS
S-502	STRUCTURAL DETAILS

DESIGN CRITERIA

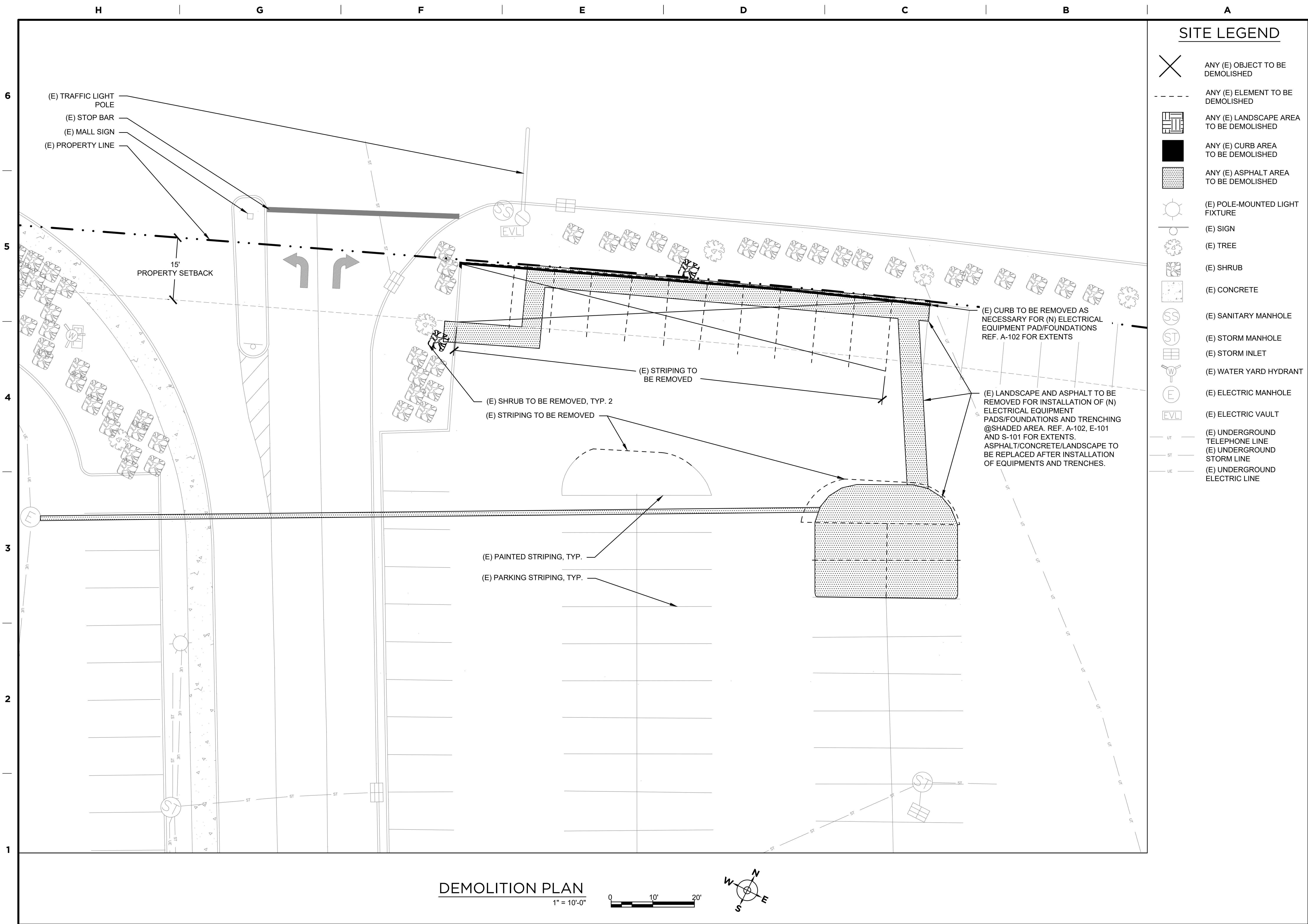
WIND SPEED: 125 MPH
RISK CATEGORY: II
EXPOSURE: C
SNOW LOAD: 50 PSF
SEISMIC DESIGN CAT. B
Ss - 0.223
S1 - 0.071
SDS - 0.238
SD1 - 0.114

APPLICABLE CODES

IBC 2015
NEC 2017

REFERENCED DOCUMENTS

SUPERCHARGER INSTALLATION MANUAL
SUPERCHARGER POST INSTALLATION MANUAL
TOPOGRAPHIC SURVEY
UTILITY DESIGN



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12 SUPERCHARGERS

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75 MIDDLESEX TURNPIKE
BURLINGTON, MA 01803

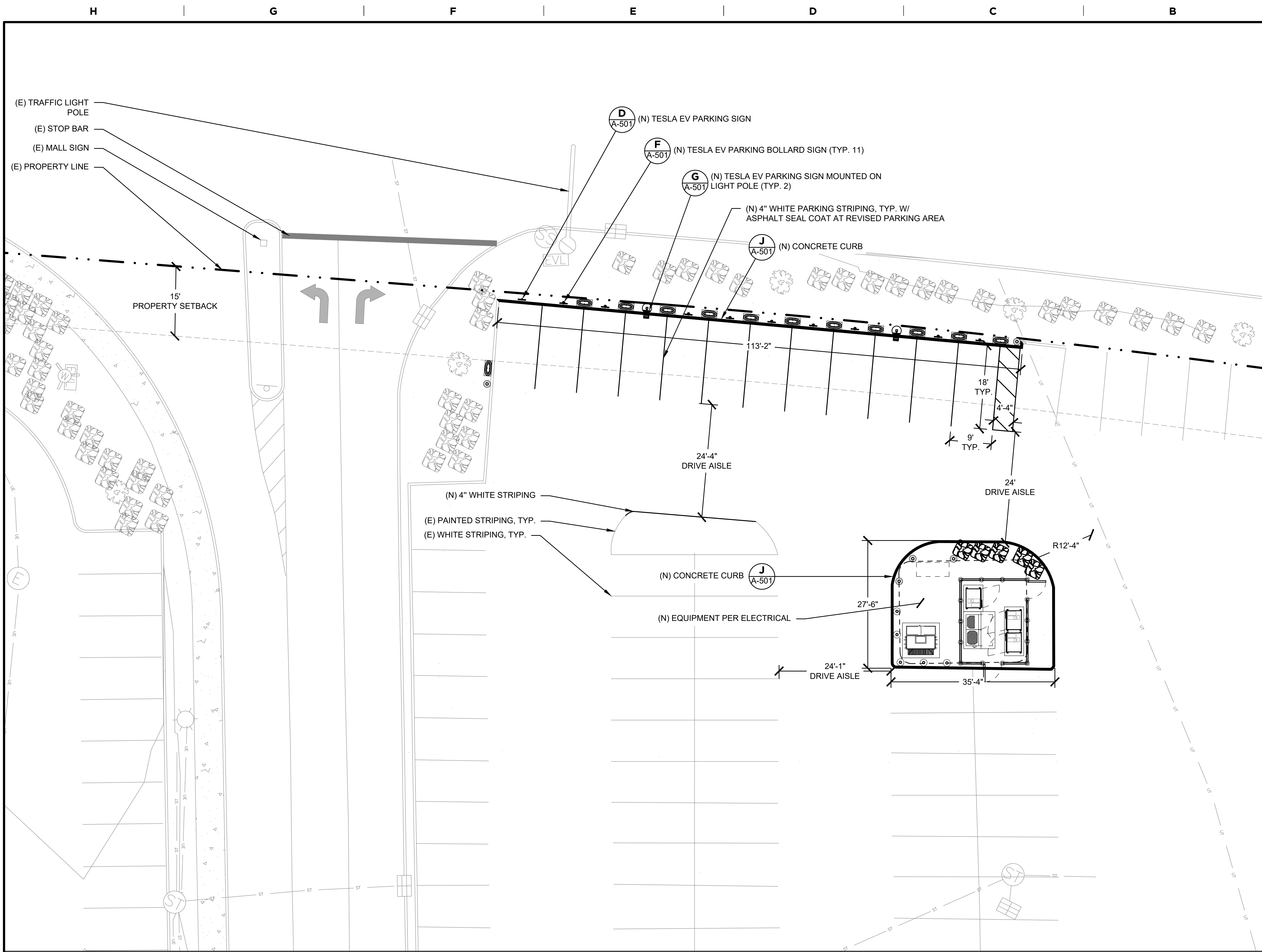
NO.	REVISION	DATE

DEMOLITION PLAN

A-101

JB-0185366-00

REV: 0 CD90



SITE LEGEND

- (N) SUPERCHARGER POST
- (E) POLE-MOUNTED LIGHT FIXTURE
- (E) SIGN
- (E) TREE
- (E) SHRUB
- (E) CONCRETE
- (E) SANITARY MANHOLE
- (E) STORM MANHOLE
- (E) STORM INLET
- (E) WATER YARD HYDRANT
- (E) ELECTRIC MANHOLE
- (E) ELECTRIC VAULT
- (N) CONCRETE BOLLARD, REF STRUCTURAL
- (N) REMOVABLE BOLLARD, REF STRUCTURAL
- (N) SINGLE LIGHT POLE WITH DOUBLE SIGN
- (N) BOLLARD SIGN
- (E) UNDERGROUND TELEPHONE LINE
- (E) UNDERGROUND STORM LINE
- (E) UNDERGROUND ELECTRIC LINE
- (N) CURB

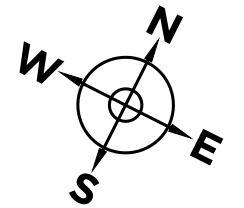
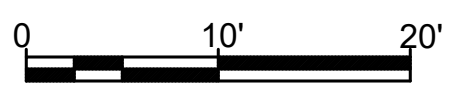
PARKING STALL SCHEDULE

EXISTING STANDARD STALLS UTILIZED AS A RESULT OF THIS PROJECT	16
PROPOSED TESLA STALLS	12
PROPOSED STANDARD STALLS	0
NET STALL COUNT	-4

NOTES

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

SITE PLAN
1" = 10'-0"



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0'10'1"

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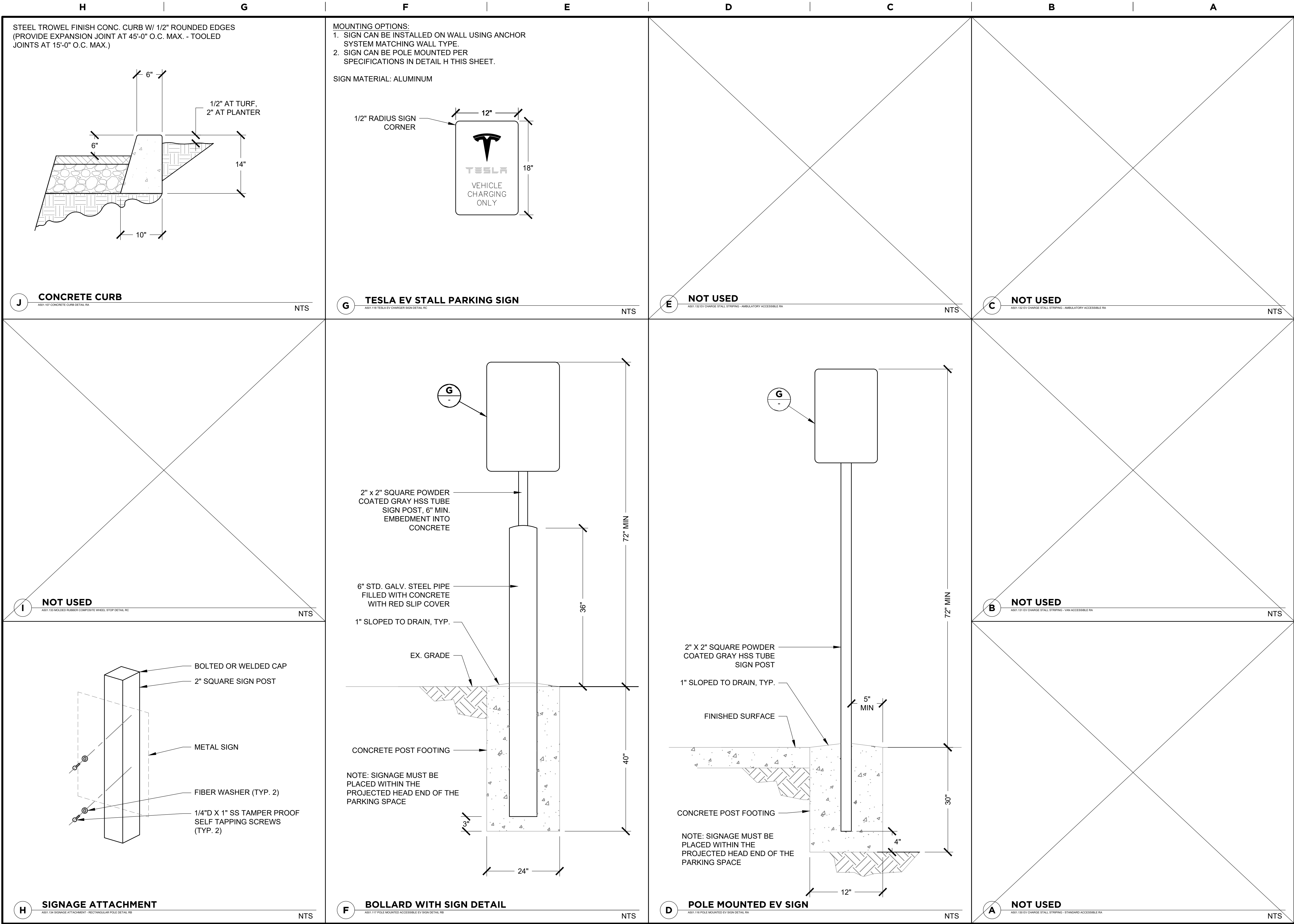
SITE PLAN

A-102

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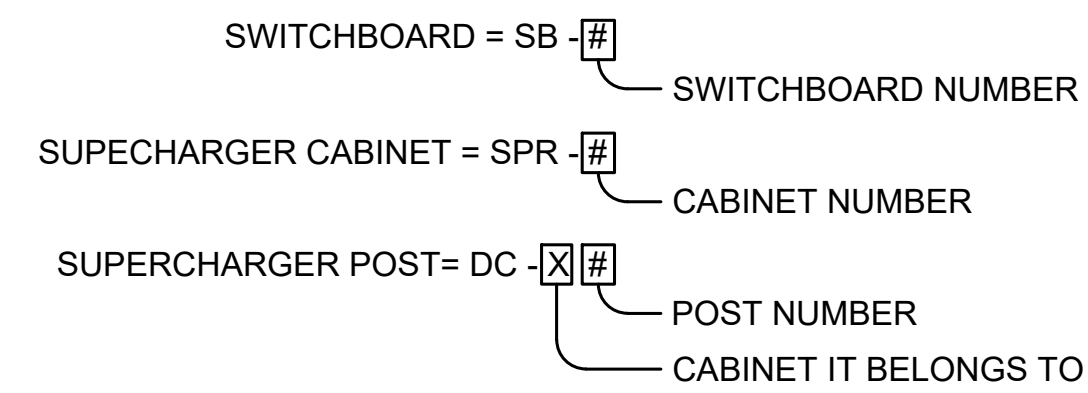
DETAILS

A-501

JB-0185366-00

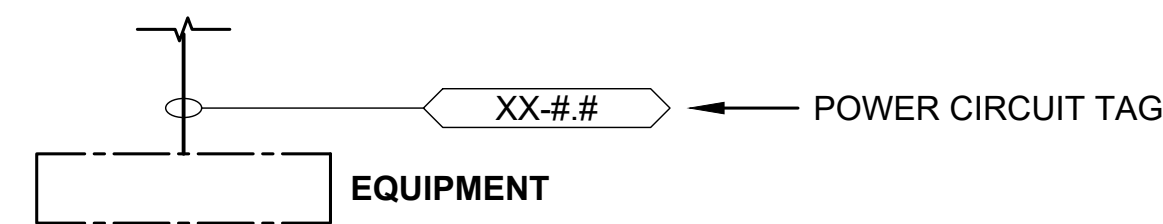
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EQUIPMENT TAG CONVENTION

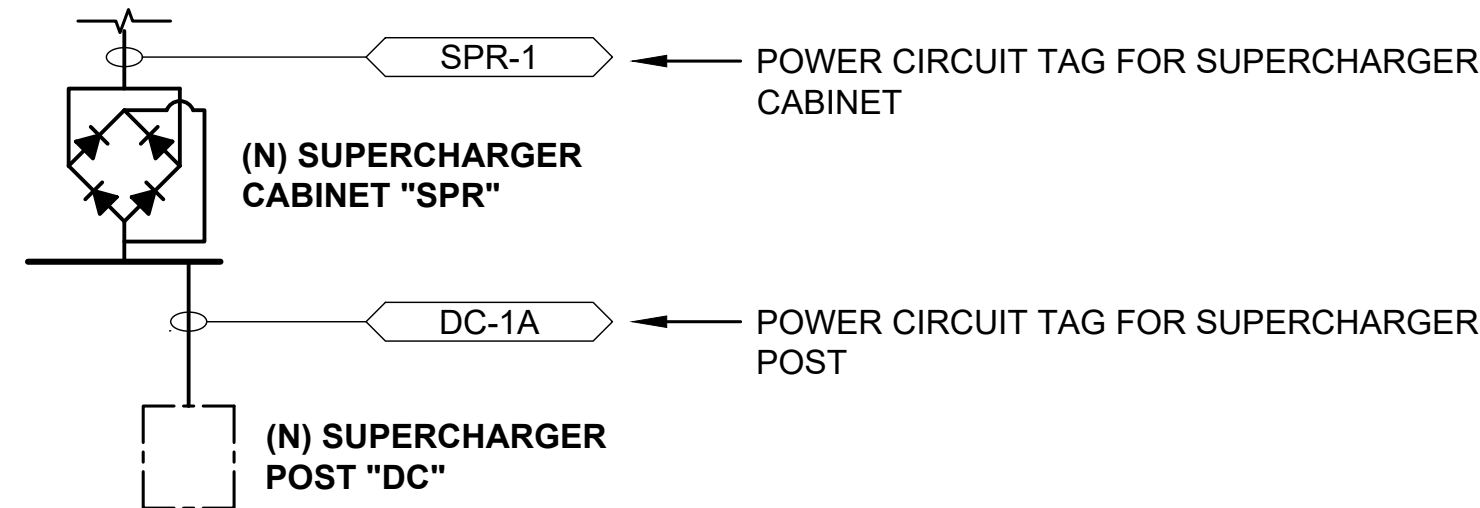


CIRCUIT TAG CONVENTION

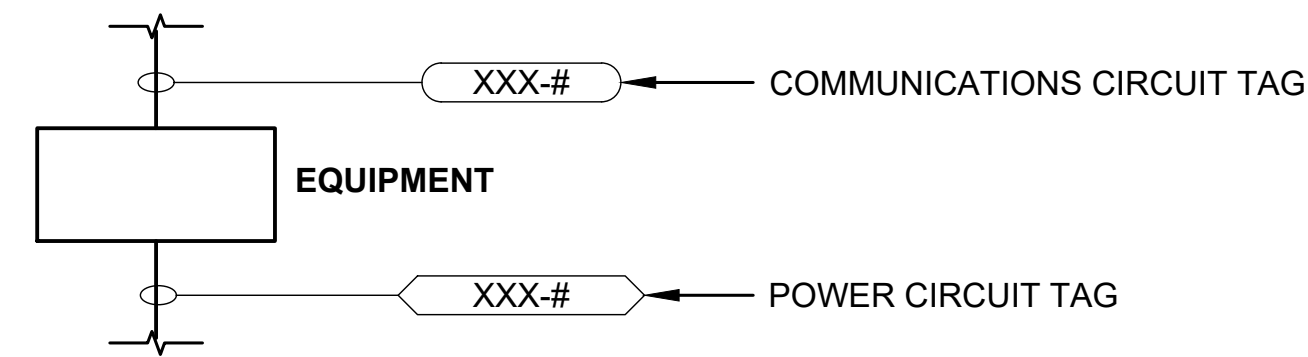
POWER EQUIPMENT TAG CONVENTION



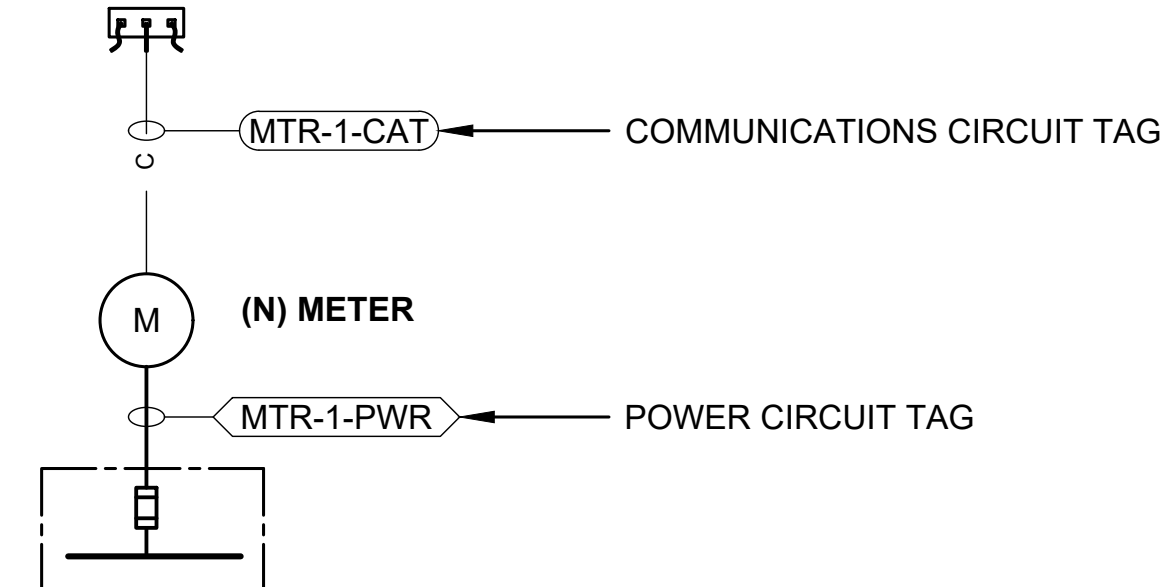
POWER EQUIPMENT TAG EXAMPLE



COMMUNICATION EQUIPMENT TAG CONVENTION



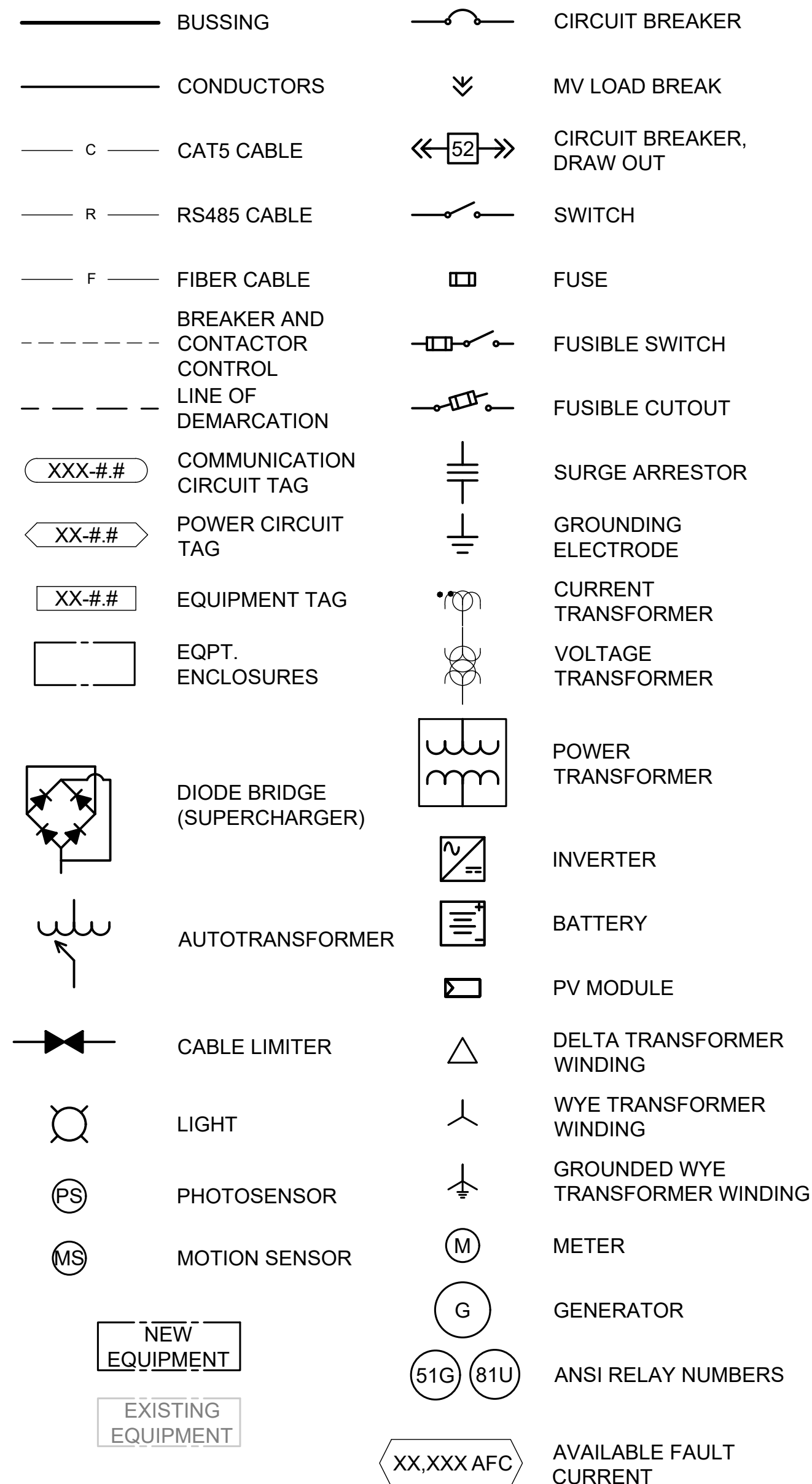
COMMUNICATION EQUIPMENT TAG EXAMPLE



SUPERCARGER 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. ALL CONDUITS ACCESSIBLE TO THE GENERAL PUBLIC OR WHICH CONDUITS CAN BE DAMAGED SHALL BE RIGID GALVANIZED STEEL.
6. 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)
7. 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.
8. TESLA SUPERCHARGER SIGNAL WIRING RATED 600V 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.
9. SUPERCHARGER CABINET AC CONDUCTORS SIZED UNDER ENGINEERING SUPERVISION USING THERMAL MODELING SOFTWARE. SPECIFICATIONS ABOUT THE TRENCHING REQUIREMENTS ARE SHOWN IN E-501
10. FOR DC RUNS IN EXCESS OF 330 FEET, CONTACT TESLA.

LINE DIAGRAM LEGEND



EQUIPMENT AND CIRCUIT LEGEND

EQUIPMENT	EQUIPMENT TAG	POWER CIRCUIT TAG	COMMS. CIRCUIT TAG
SWITCHBOARD	SB-#	SB-#	NOT APPLICABLE
SUPERCHARGER CABINET	SPR	SPR-#	NOT APPLICABLE
SUPERCHARGER POST	DC-#	DC-#	NOT APPLICABLE
ASTRONOMICAL TIME CLOCK	ATC	ATC	NOT APPLICABLE
TESLA SITE CONTROLLER	TSC	TSC	NOT APPLICABLE
TRANSFORMER	XR-#	XR-#	NOT APPLICABLE
LIGHT	LGT-#	LGT-#	NOT APPLICABLE
SUPPLEMENTAL COMMUNICATIONS	NOT APPLICABLE	NOT APPLICABLE	DC-#-RG6

CIRCUIT BREAKER SETTINGS

TO BE ADDED PRIOR TO IFP

SCOPE OF WORK (SPECIFICATIONS)	EVERSOURCE	TESLA
PERFORM MH BREAK IN MH30698 AND EXTEND CUSTOMER PROVIDED PVC IN	X	
FIBERGLASS SWITCH BASE (EVERSOURCE PROVIDED) ON PMH27039 PER EVERSOURCE C4042		X
PRECAST XFMR PAD ON PMH27040 PER EVERSOURCE C3801, C3802, M3801		X
5-5" PVC IN CONCRETE FROM PMH27039 TO JUST OUTSIDE OF MH30698 DL=140'+/-		X
1-5" PVC IN CONCRETE FROM PMH227040 TO JUST OUTSIDE OF MH30698 DL=150'+/-		X
1-5" PVC IN CONCRETE FROM PMH27039 TO PMH27040 DL=10'+/-		X
5-4" SECONDARY PVC FROM PMH27040 TO MAIN SWITCH AS SHOWN DL=10'+/-		X
5 SETS OF 4-500 FROM PMH 27040 TO SERVICE DL=10'+/-		X
INSTALL NEW PME-9 SWITCH WITH MOTOR CONTROL AND 400FF FUSES ON PMH27039	X	
CUT 3-700 IN MH30698 AS SHOWN	X	
INSTALL (2X) 3-700 15KV CABLE FROM MH30698 TO PMH27039 DL=140'+/- AND CONNECT AS SHOWN	X	
MAKE 600A ELBOWS ON PMH27039	X	
INSTALL FAULT INDICATORS ON PMH27039	X	
INSTALL 2000KVA 13.8KV-277/480V XFMR ON PMH27040	X	
INSTALL 3-4/0AL 15KV CABLE FROM PMH27039 TO PMH27040 AND CONNECT AS SHOWN DL=10'+/-	X	
INSTALL 3-4/0AL 15KV CABLE FROM PMH27040 TO MH30698 AND CONNECT AS SHOWN DL=150'+/-	X	
INSTALL 3-4/0AL 15KV CABLE FROM PMH27039 TO MH30698 DL=140'+/- AND MAKE LIVE CAPS	X	
INSTALL 200A ELBOWS ON PMH27039 (6), PMH27040 (6)	X	
INSTALL STENCIL ON PMH27039 & PMH27040	X	
INSTALL SECONDARY CONNECTIONS ON PMH27040	X	



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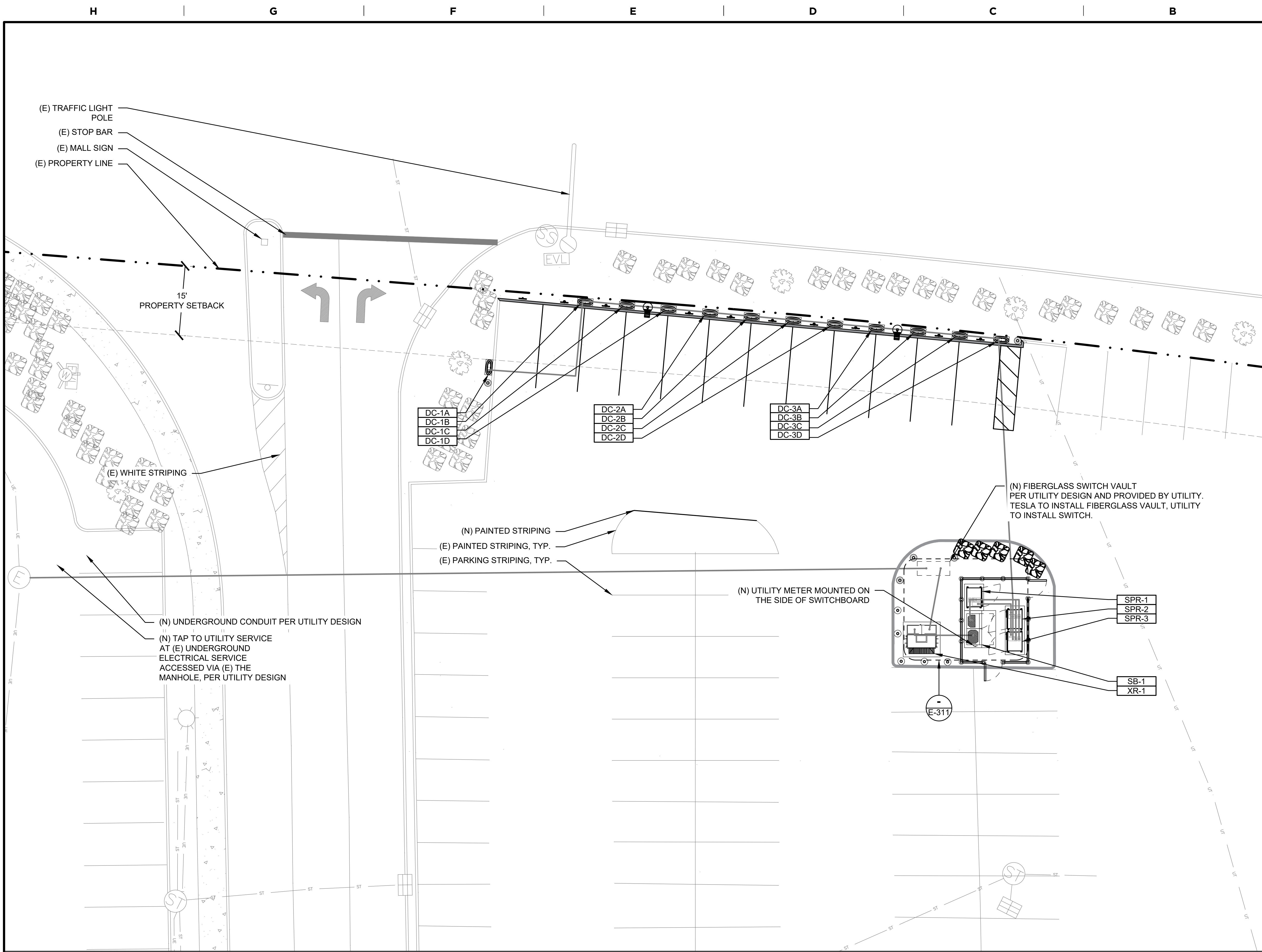
NOTES

E-001

JB-0185366-00

REV: 0

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SITE LEGEND

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- (E) POLE-MOUNTED LIGHT FIXTURE
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- (E) ELECTRIC MANHOLE
- (E) ELECTRIC VAULT
- (N) REMOVABLE BOLLARD
- (N) CONCRETE BOLLARD
- (N) BOLLARD SIGN
- (N) LIGHT POLE WITH SIGN
- (E) UNDERGROUND TELEPHONE LINE
- (E) UNDERGROUND STORM LINE
- (E) UNDERGROUND ELECTRIC LINE
- AREAS OF INTEREST
- (N) UNDERGROUND CONDUIT FOR POWER

EQUIPMENT LEGEND

- SWITCHBOARD SB-#
- SUPERCHARGER CABINET SPR-#
- SUPERCHARGER POST DC-#
- LIGHT LGT-#
- TRANSFORMER XR-#
- TESLA SITE CONTROLLER TSC

NOTES

CONDUIT/TRENCH ROUTES SHOWN ARE FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO CIRCUIT SCHEDULE ON SHEET E-201 FOR ADDITIONAL DETAILS.



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ELECTRICAL SITE PLAN

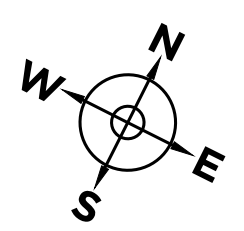
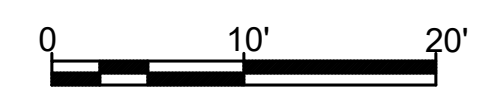
E-101

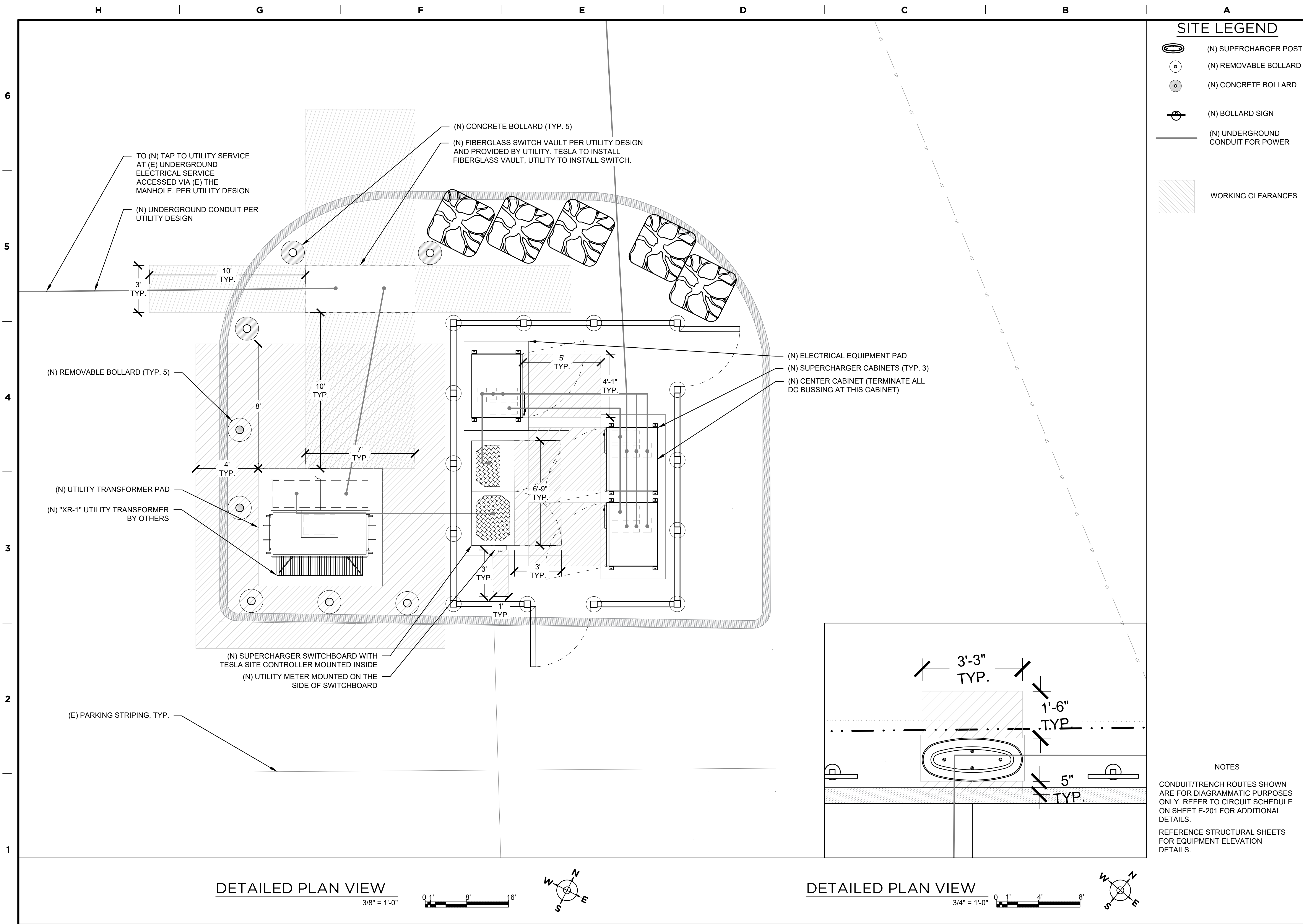
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ELECTRICAL SITE PLAN

1" = 10'-0"





SITE LEGEND

(N) SUPERCHARGER POST

(N) REMOVABLE BOLLARD

(N) CONCRETE BOLLARD

(N) BOLLARD SIGN

(N) UNDERGROUND CONDUIT FOR POWER

WORKING CLEARANCES

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REFERENCE STRUCTURAL SHEETS FOR EQUIPMENT ELEVATION DETAILS.

DETAILED PLAN VIEW

E-311


JB-0185366-00

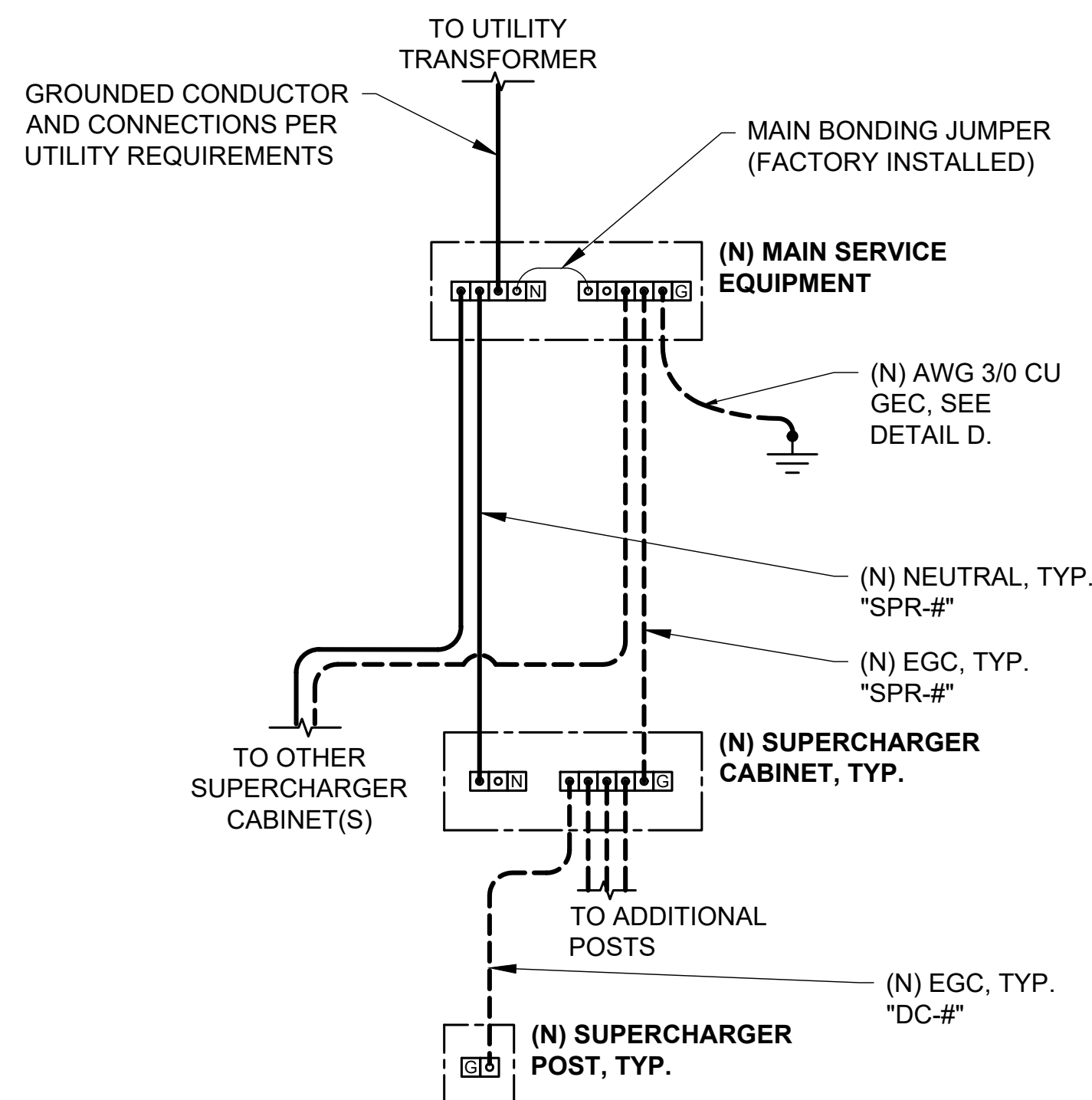
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GROUNDING NOTES

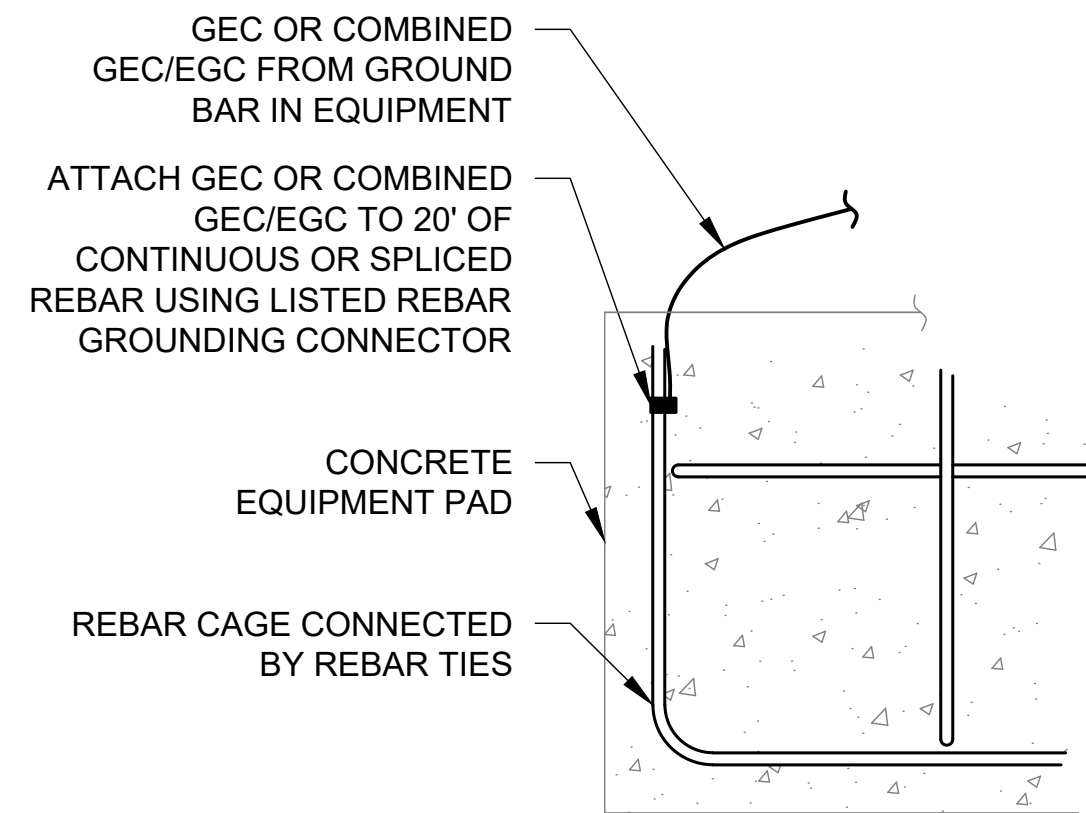
- REFER TO ONE-LINE DIAGRAM FOR SPECIFIC CIRCUIT IDENTIFIERS BETWEEN EQUIPMENT.
- REFER TO AC & DC CIRCUIT SCHEDULES FOR NEUTRAL/GROUND SIZING PER CIRCUIT.

SYMBOLS LEGEND

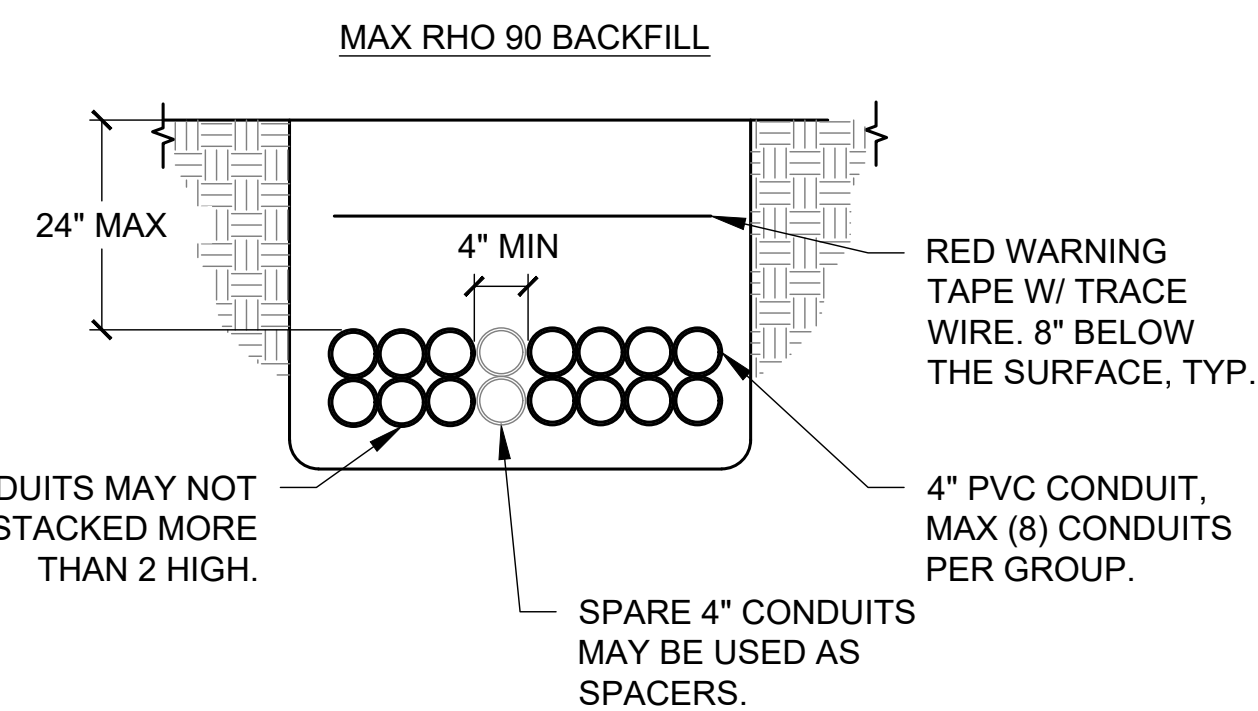
④	NEUTRAL BUSBAR	⑤	TERMINAL ON NEUTRAL OR GROUND BUSBAR
⑥	GROUND BUSBAR	•	IRREVERSIBLE SPLICE OR CRIMP PER NEC 250.64(C)
⑦	PRIMARY OR SECONDARY COMMON TERMINAL, AS APPLICABLE		NEC 250.52(A)-COMPLIANT GROUNDING ELECTRODE



E **GROUNDING DIAGRAM** E281.100 GROUND DIAGRAM NOTES RA NTS



D CONCRETE-ENCASED ELECTRODE
 E501: 100 REBAR CAGE INSPECTION BOX AND GROUND ROD DETAIL RA



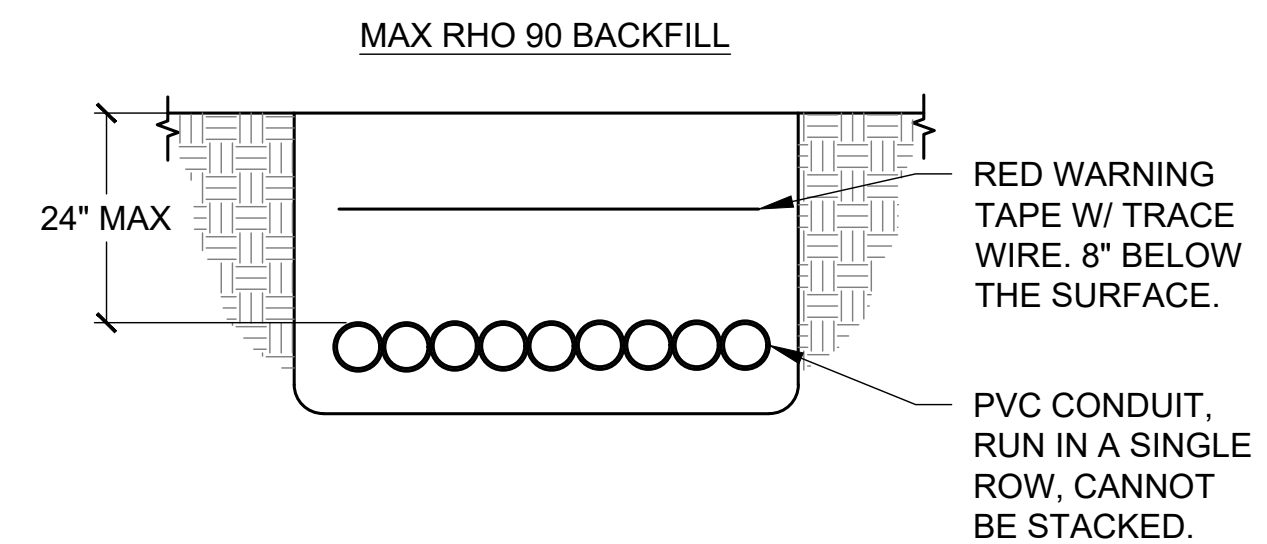
"SPR-#" CIRCUIT TRENCH - MAX RHO 90

ES11.12X DC TRENCH - PAVEMENT TRAFFIC DETAIL RA

NTS

TRENCHING NOTES

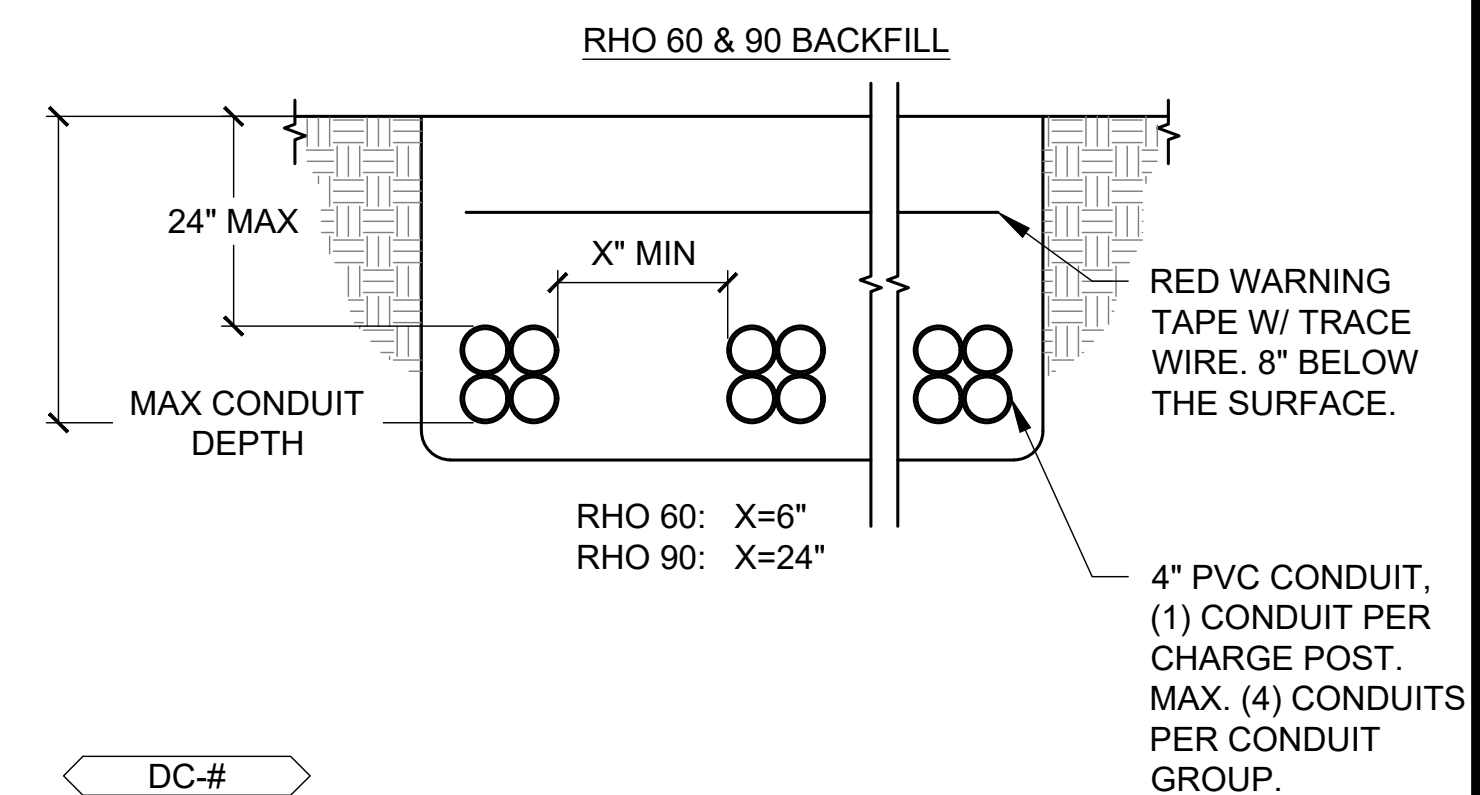
- THE TRENCH DESIGNS ARE THE RESULT OF A THERMAL ANALYSIS OF THE CONDUCTORS UNDER LOAD. FOR PROPER PROTECTION THEY MUST BE FOLLOWED.
- APPROVED BACKFILL IS REQUIRED TO MEET THE DESIGNED RHO VALUES. USE THE SPECIFIED BACKFILL LISTED BELOW OR TEST NATIVE SOIL CONDITIONS TO CONFIRM MAX DEFINED RHO VALUES.
- **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.



DC-BUS

"DC-BUS" CIRCUITS TRENCH - MAX RHO 90

EST-1123 TRENCH - PAVEMENT TRAFFIC DETAIL RA



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

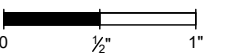
ES11.12X DC TRENCH - PAVEMENT TRAFFIC DETAIL RA

NTS



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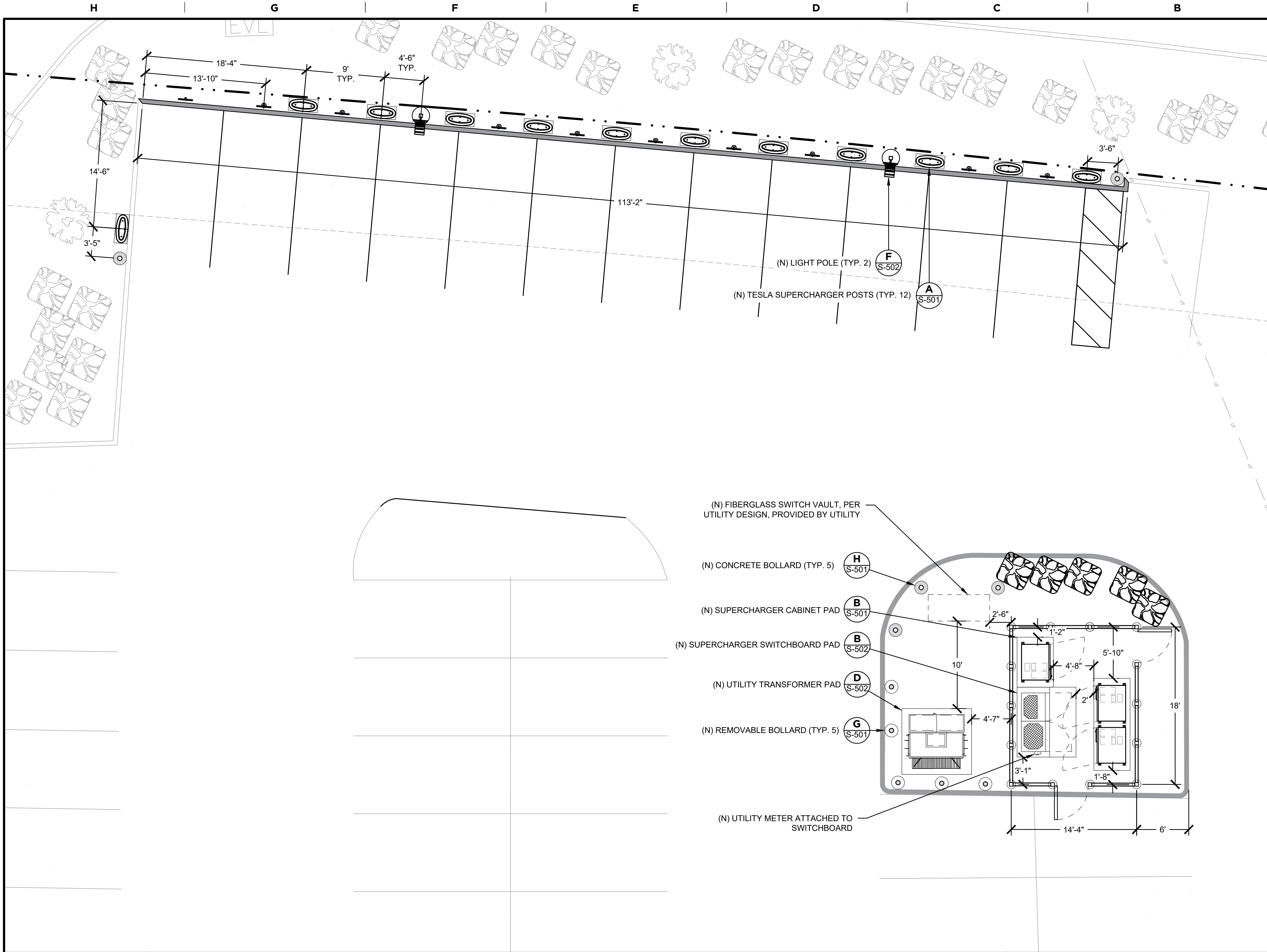
[illegible]

ELECTRICAL DETAILS

E-501

JB-0185366-00

REV: 0	CD90
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SITE LEGEND

- (N) SUPERCHARGER POST
- (E) SIGN
- (E) TREE
- (E) SHRUB
- (N) REMOVABLE BOLLARD
- (N) CONCRETE BOLLARD
- (N) BOLLARD SIGN
- (N) DOUBLE LIGHT POLE WITH DOUBLE SIGN

STRUCTURAL DESIGN CRITERIA:

- DESIGN CODE:**
- 2015 IBC
- DESIGN CRITERIA:**
- WIND DESIGN**
 - DESIGN WIND SPEED = 125 MPH (ULTIMATE)
 - RISK CATEGORY = II
 - WIND EXPOSURE = C
 - SEISMIC DESIGN**
 - RISK CATEGORY = II
 - SEISMIC IMPORTANCE FACTOR = 1.0
 - $S_{S_1} = 0.223$ g, $S_{D1} = 0.171$ g
 - SITE CLASS = D
 - $S_{DS} = 0.238$ g, $S_{D1} = 0.114$ g
 - SEISMIC DESIGN CATEGORY = B
 - BASIC SEISMIC-FORCE-RESISTING SYSTEM = NON-STRUCTURAL COMPONENT
 - $R = 2.5$ / $a_p = 1.0$
 - GEOTECHNICAL INFORMATION**
 - ALLOWABLE BEARING PRESSURE = 1,500 PSF USED FOR EQUIPMENT FOUNDATION

TESLA

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

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

0 32' 1"

TESLA SUPERCHARGERS_SIMON MALL
12 SUPERCHARGERS
TESLA SUPERCHARGERS_SIMON MALL
75 MIDDLESEX TURNPIKE
BURLINGTON, MA 01803

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STRUCTURAL
SITE PLAN

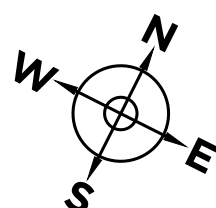
S-101

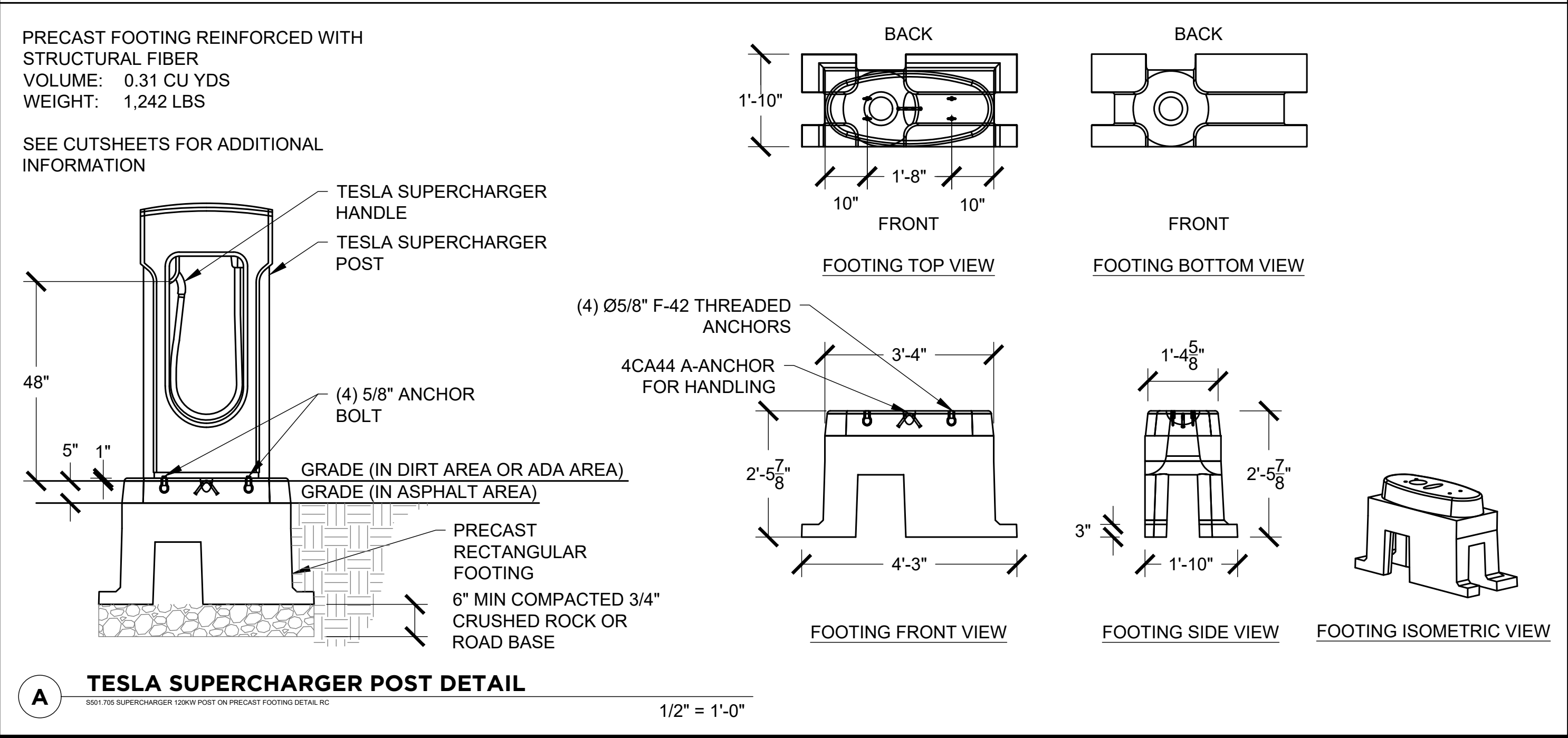
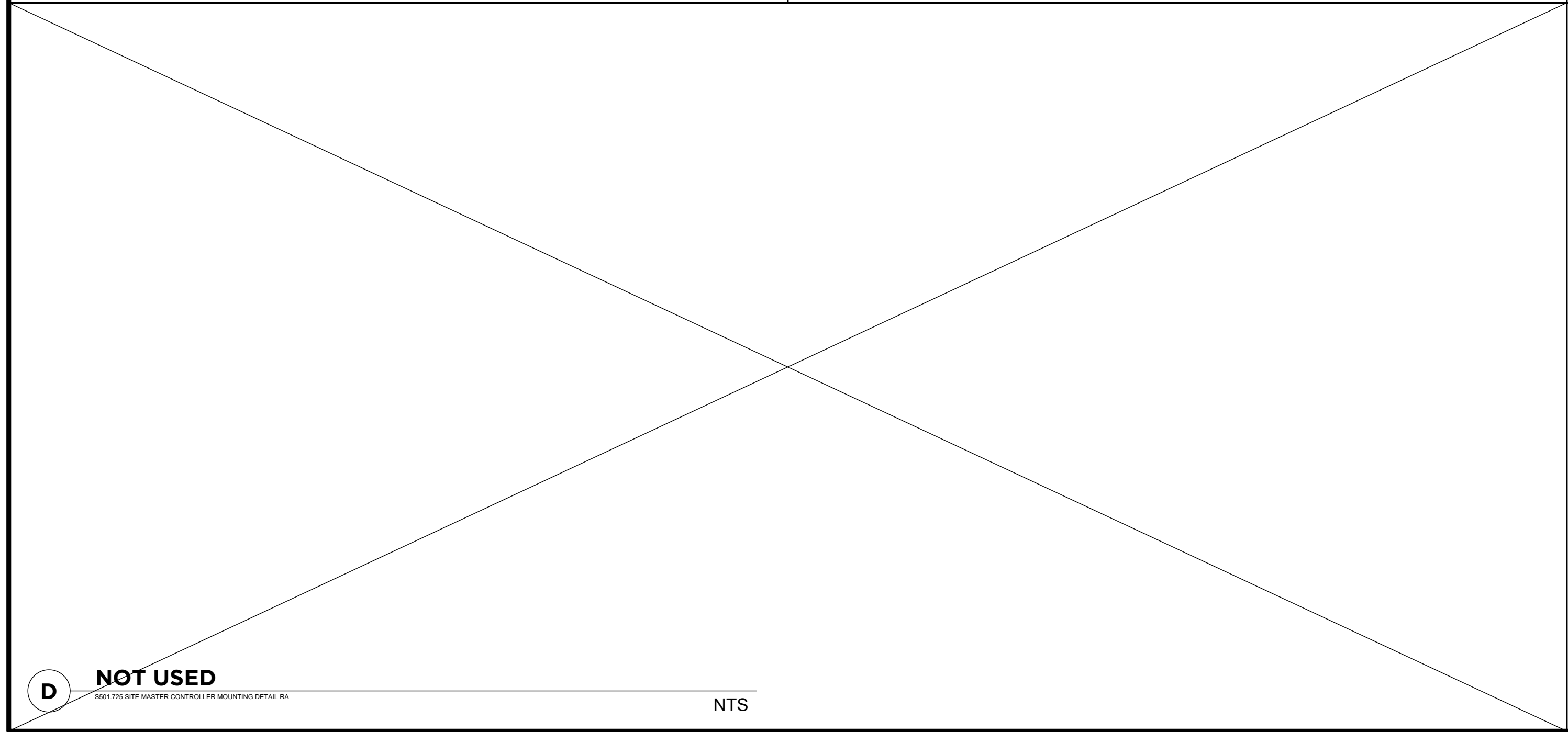
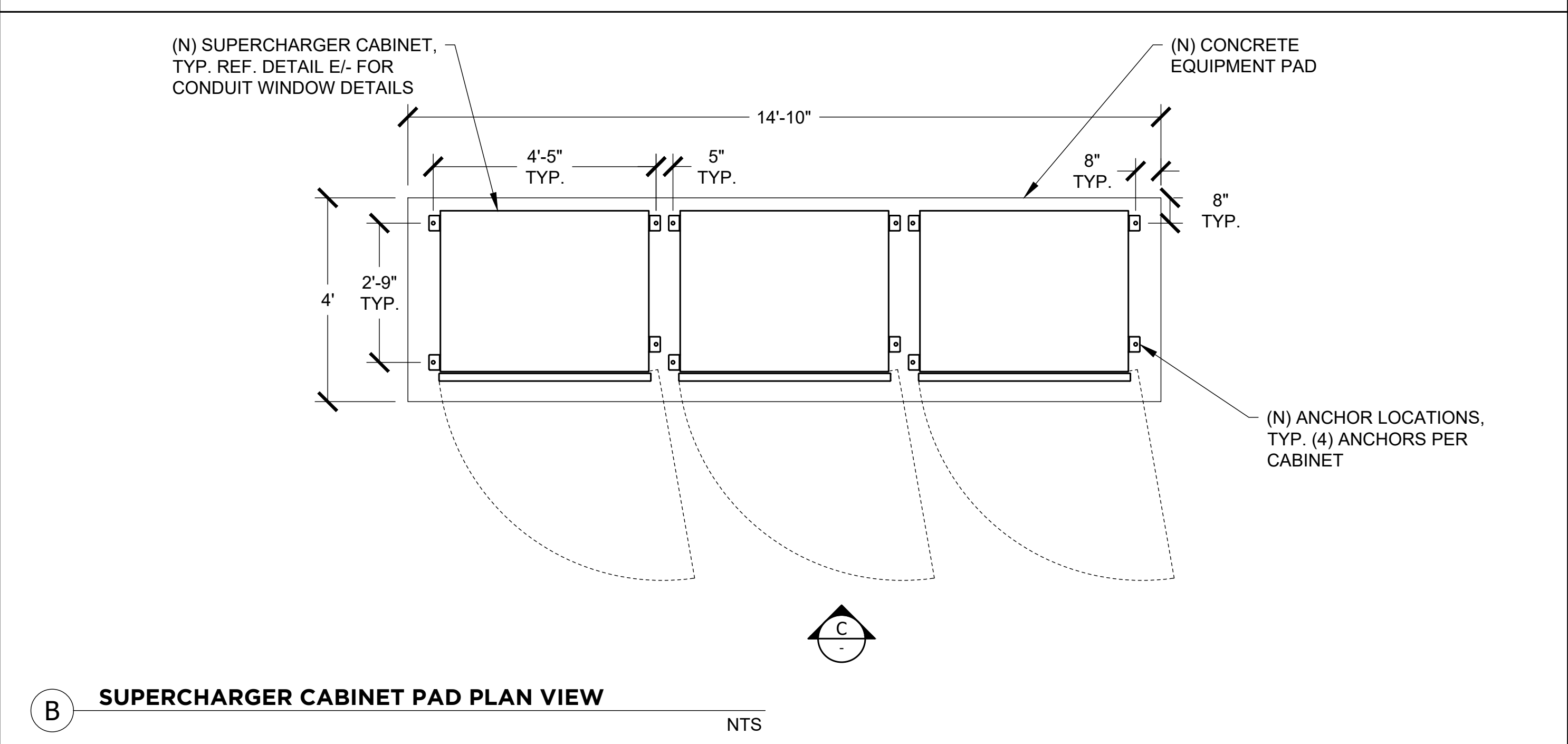
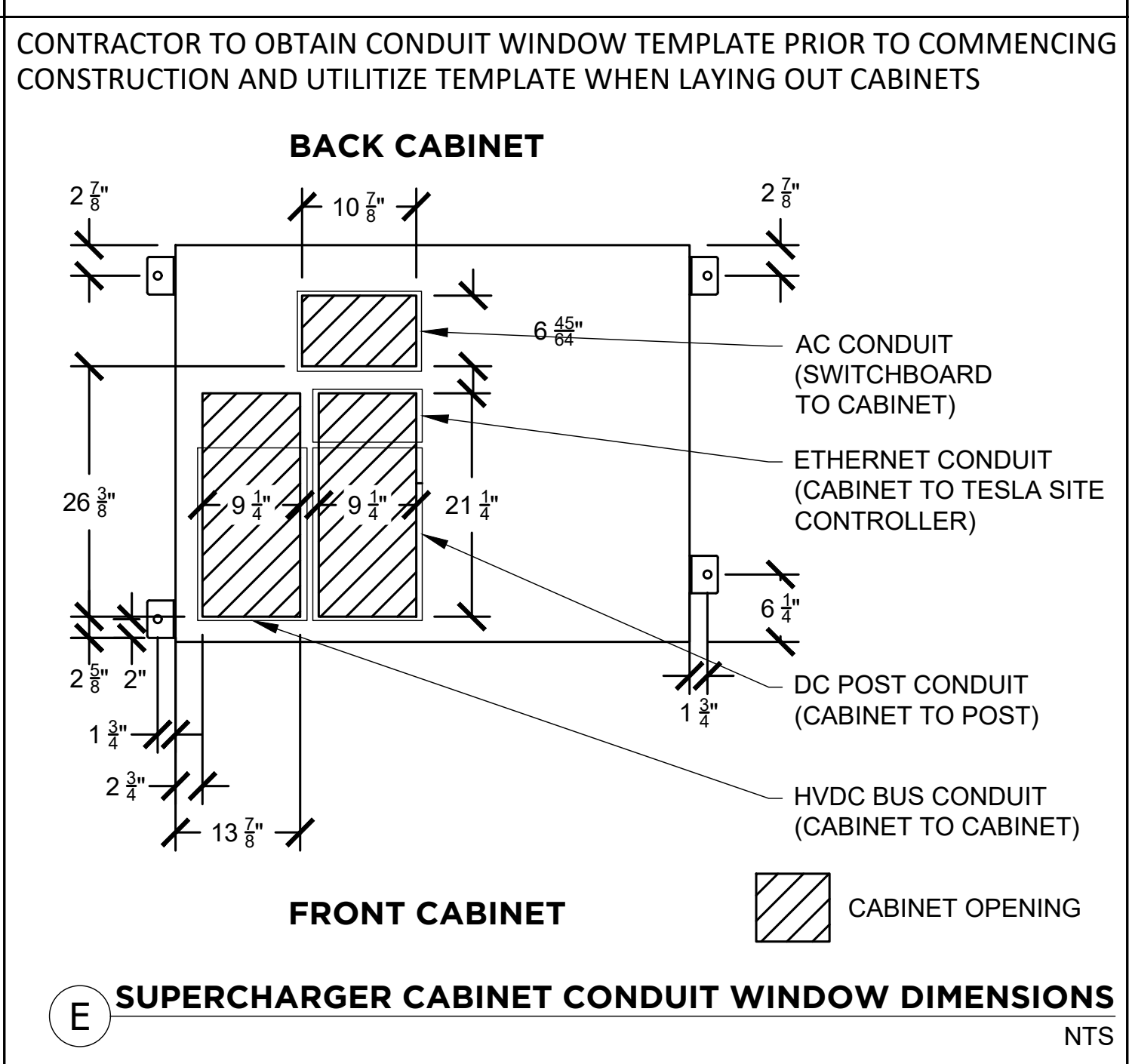
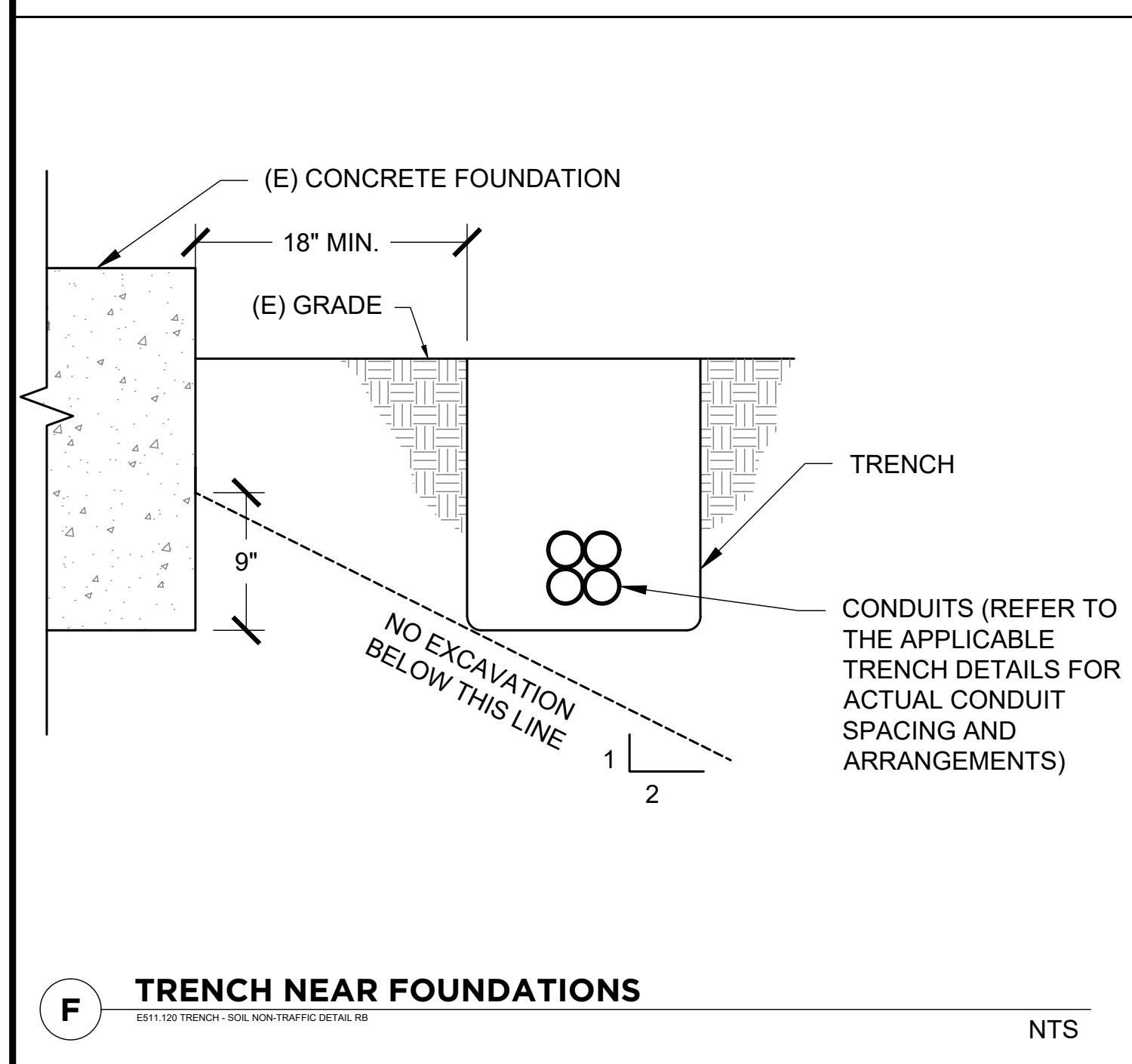
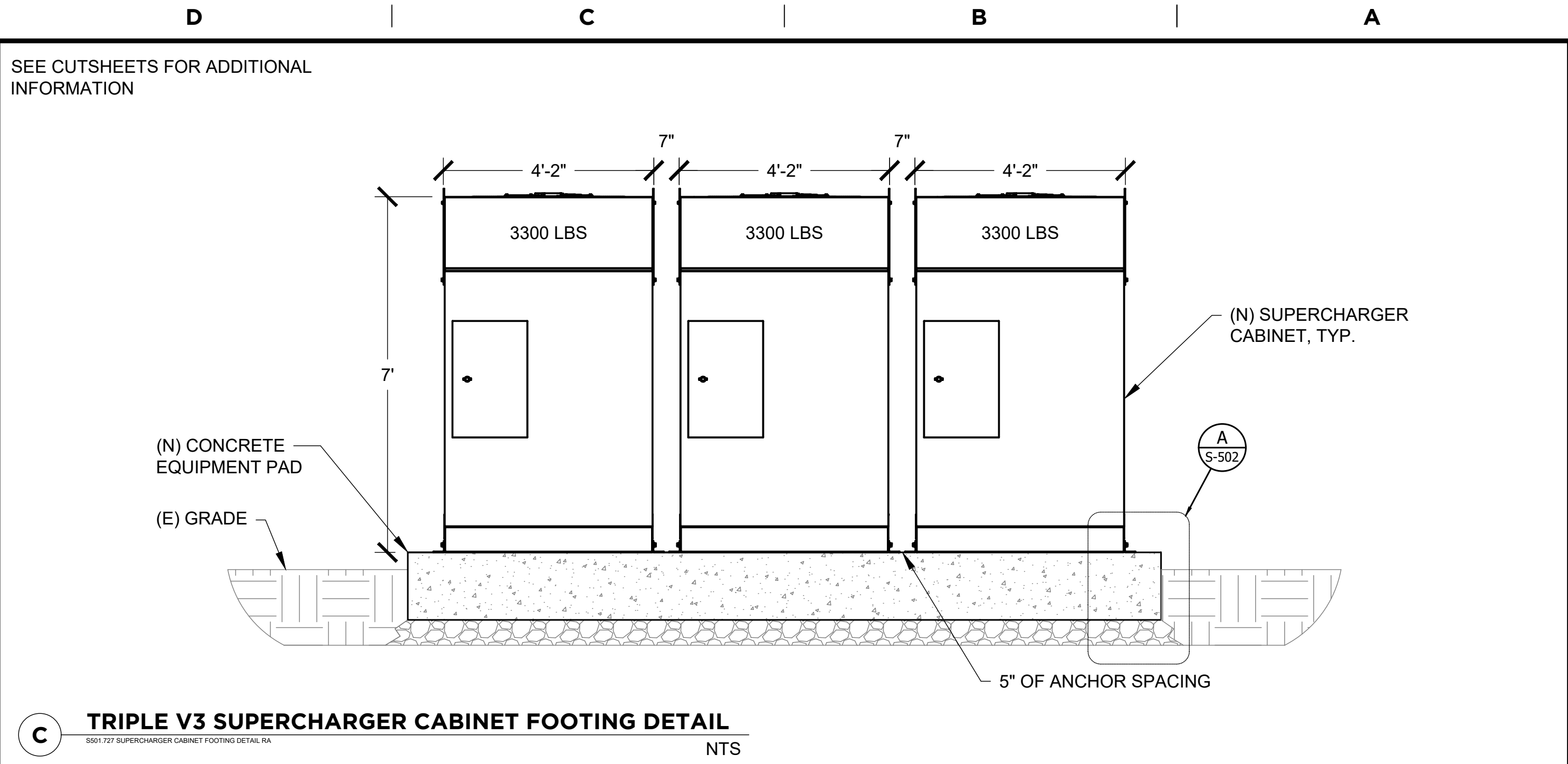
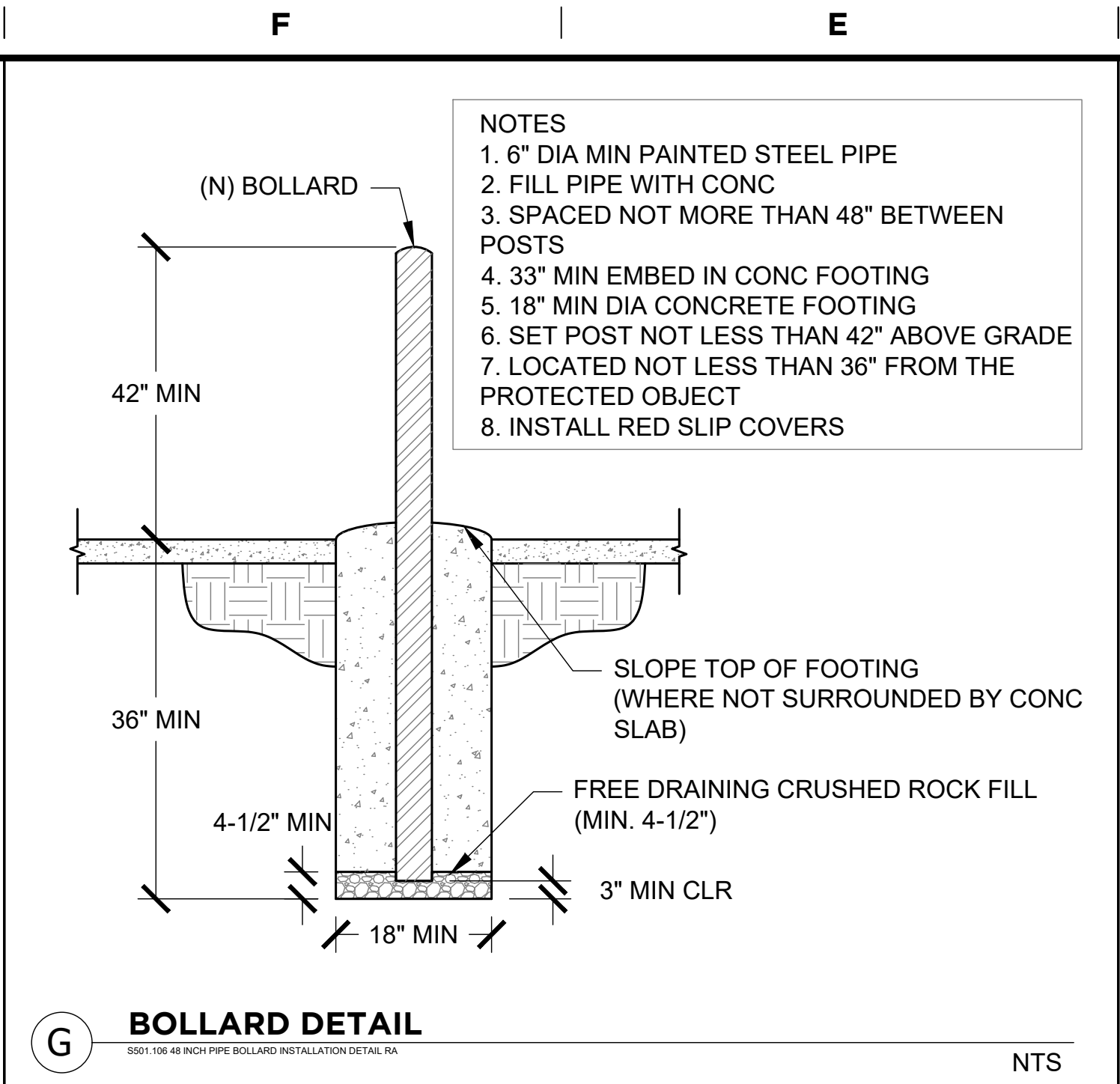
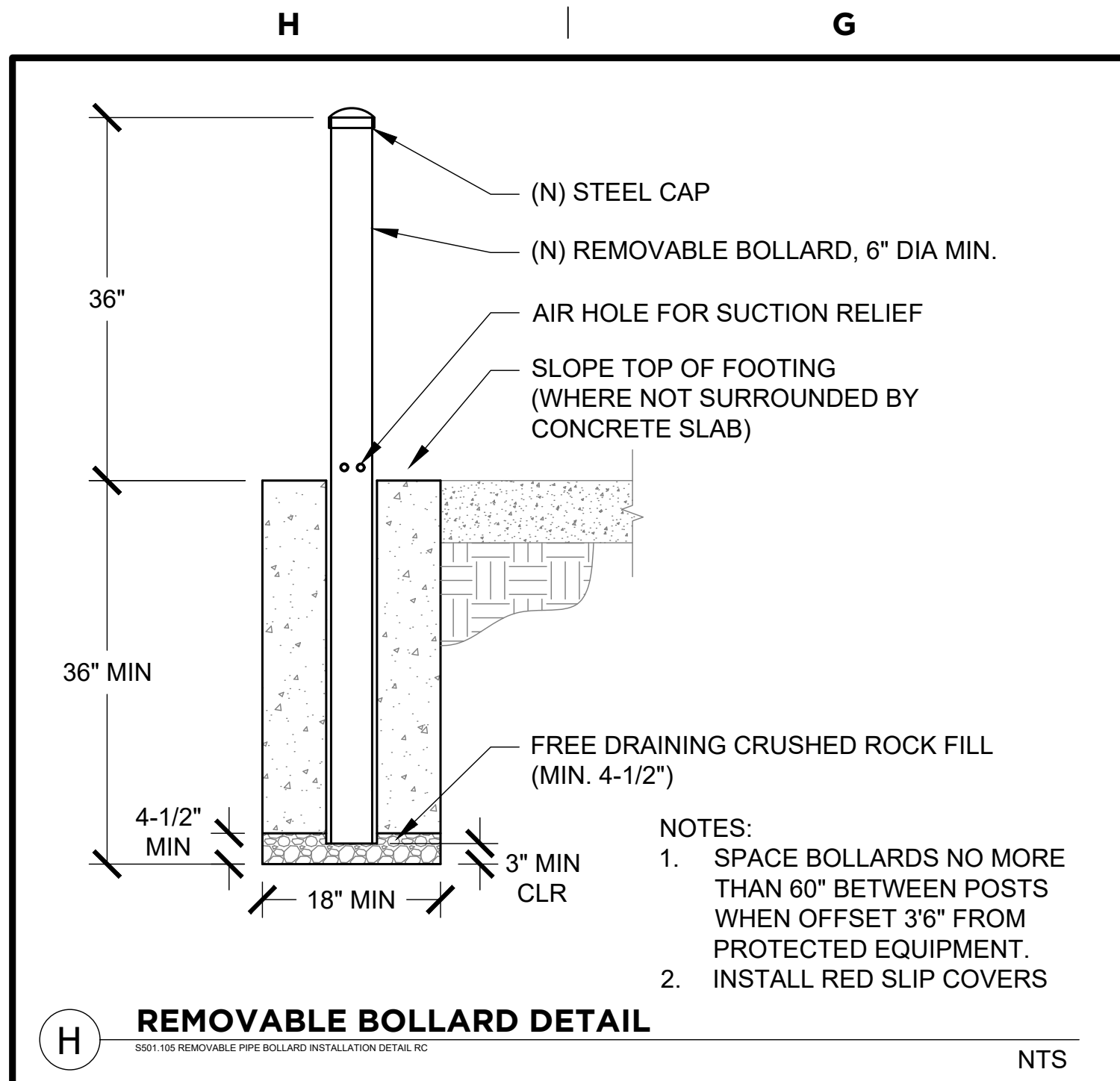
JB-0185366-00

REV: 0 CD90

STRUCTURAL SITE PLAN
3/16" = 1'-0"

0.1' 16' 32'





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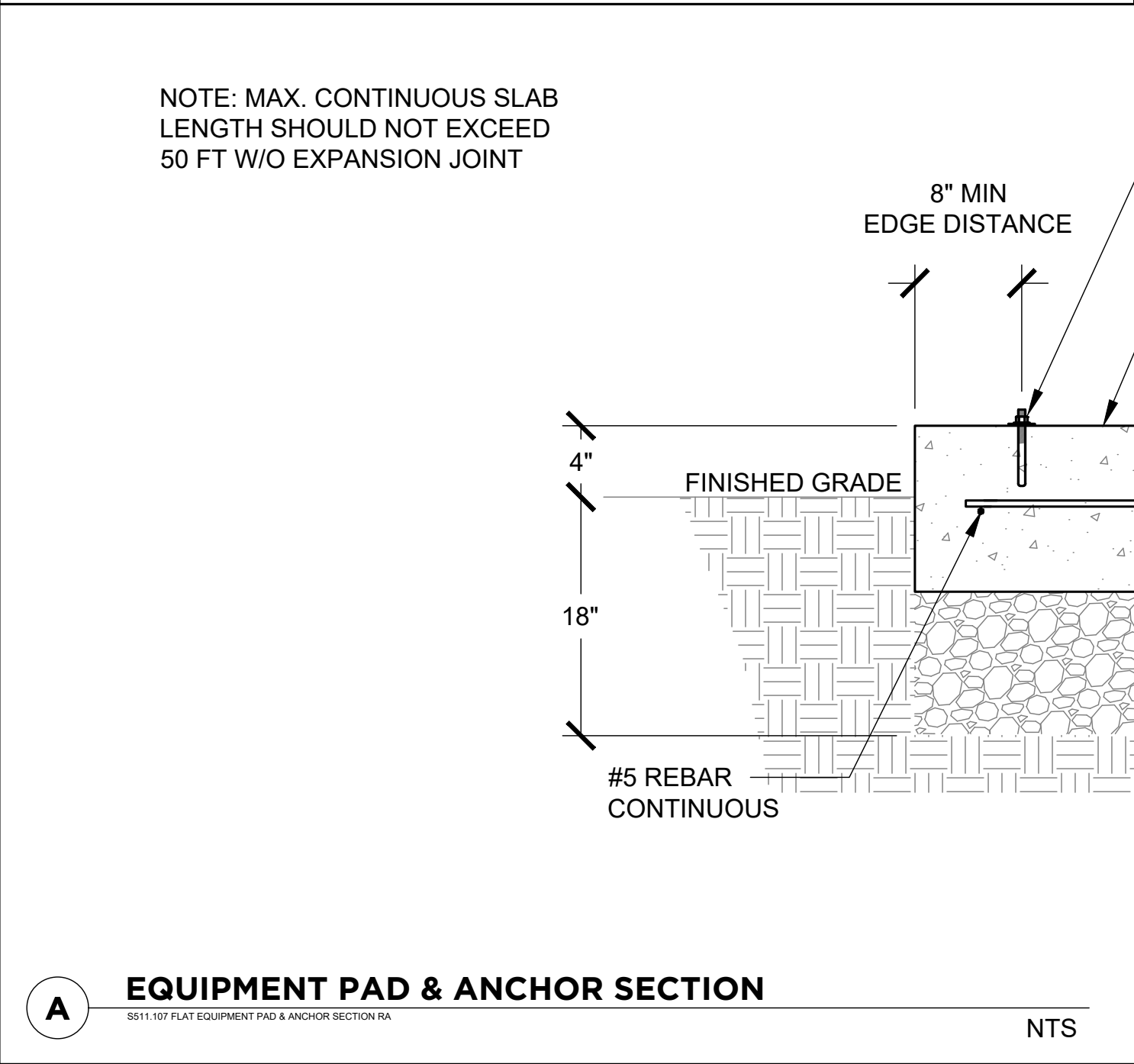
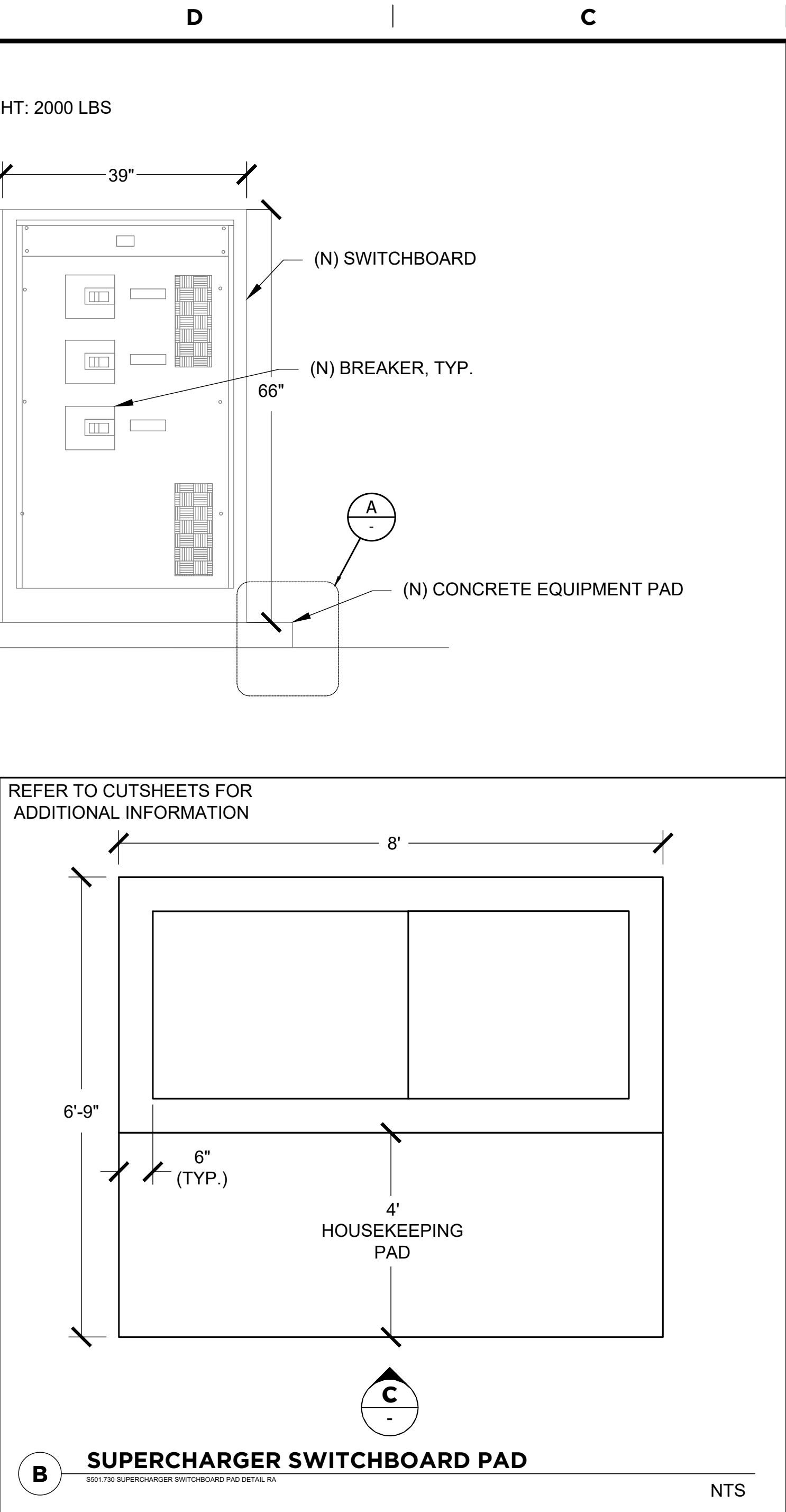
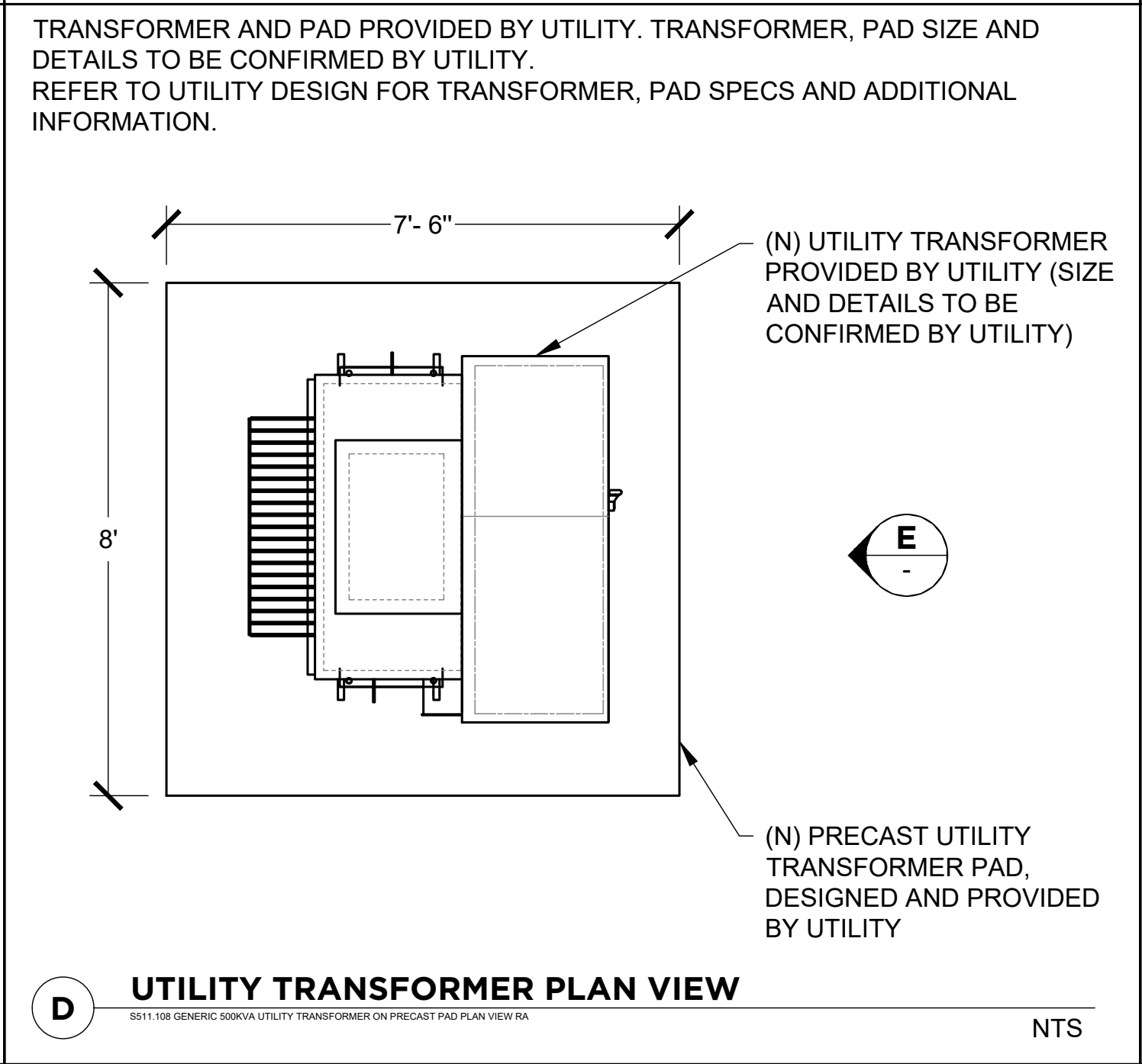
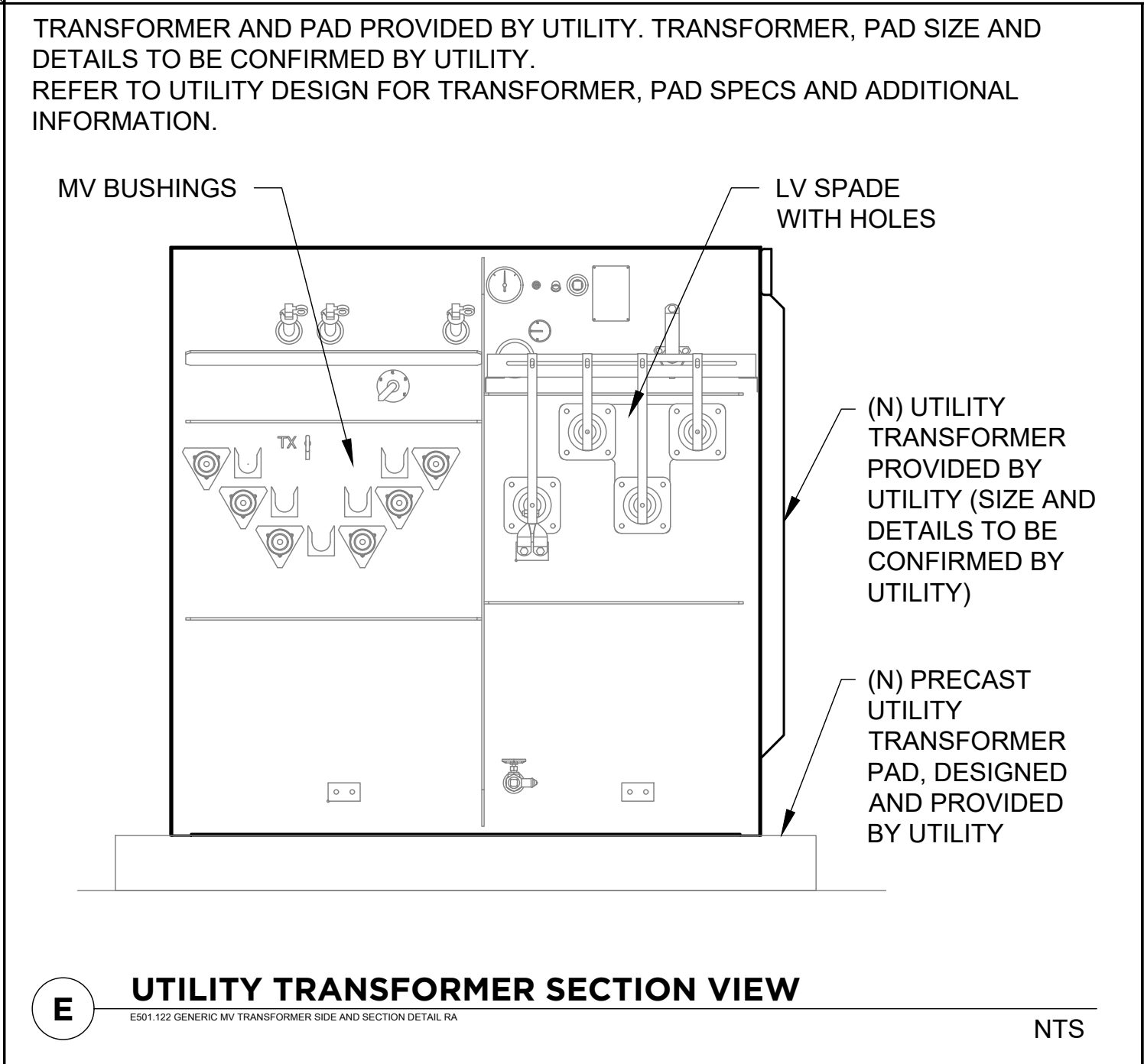
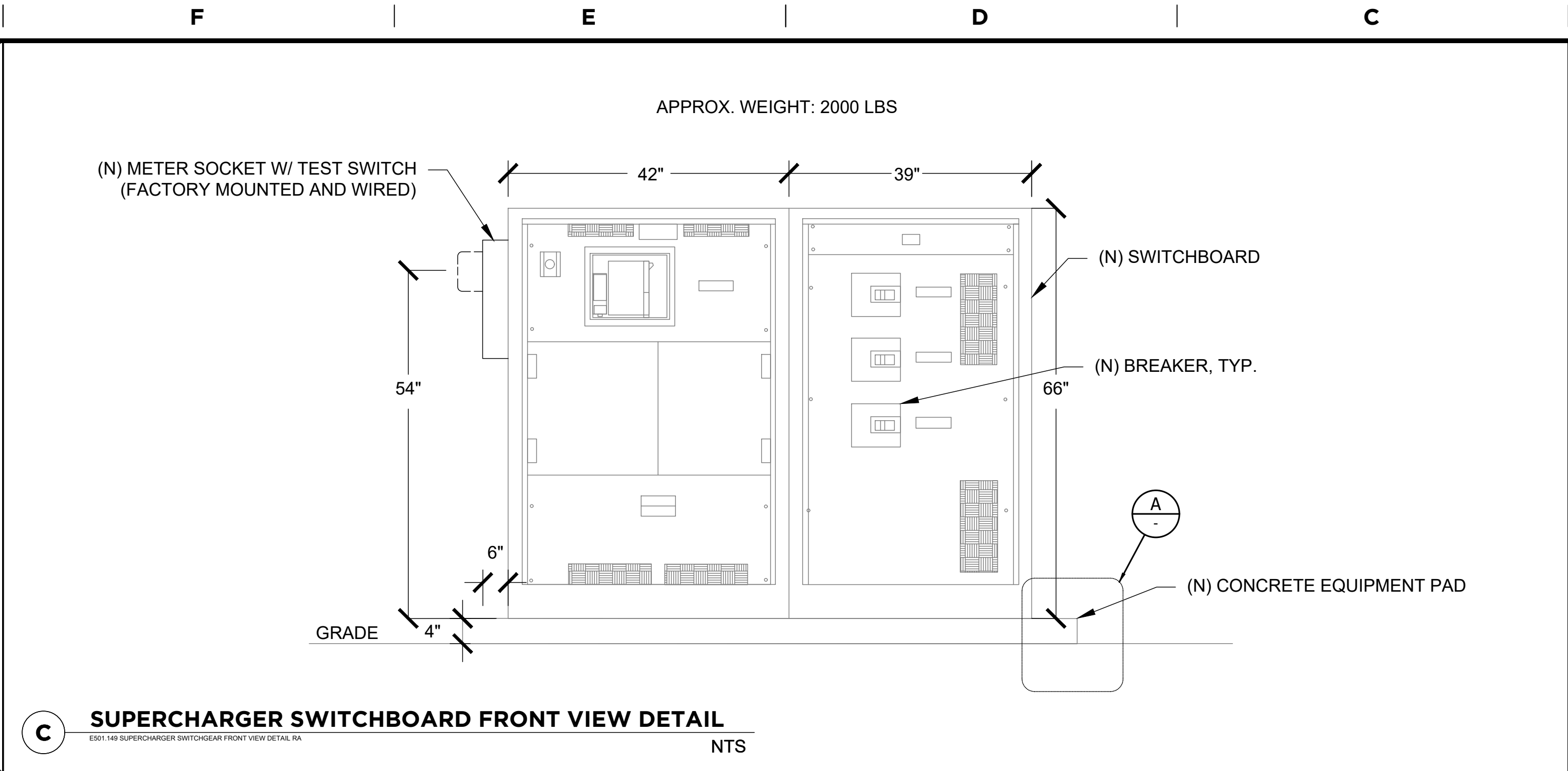
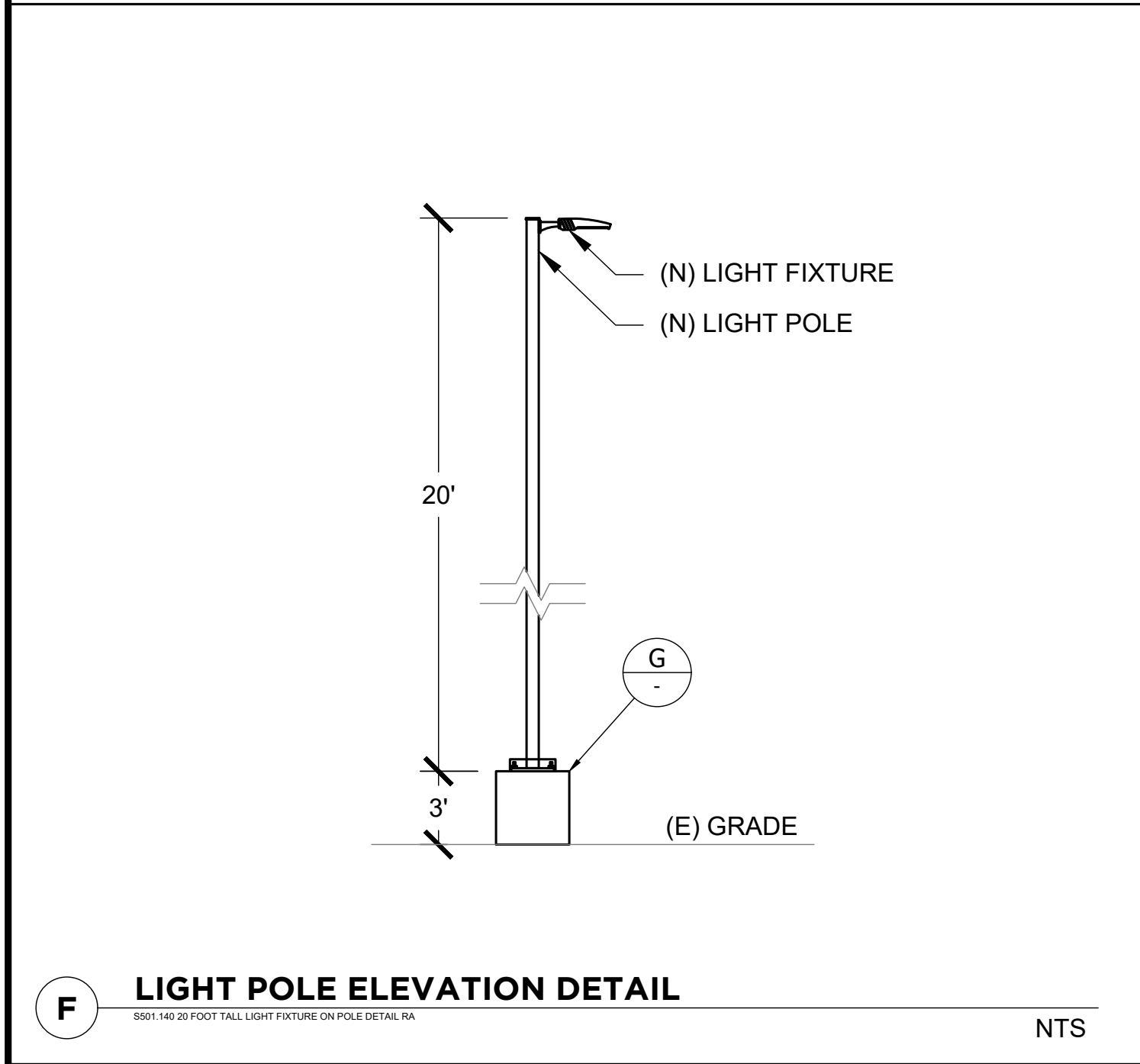
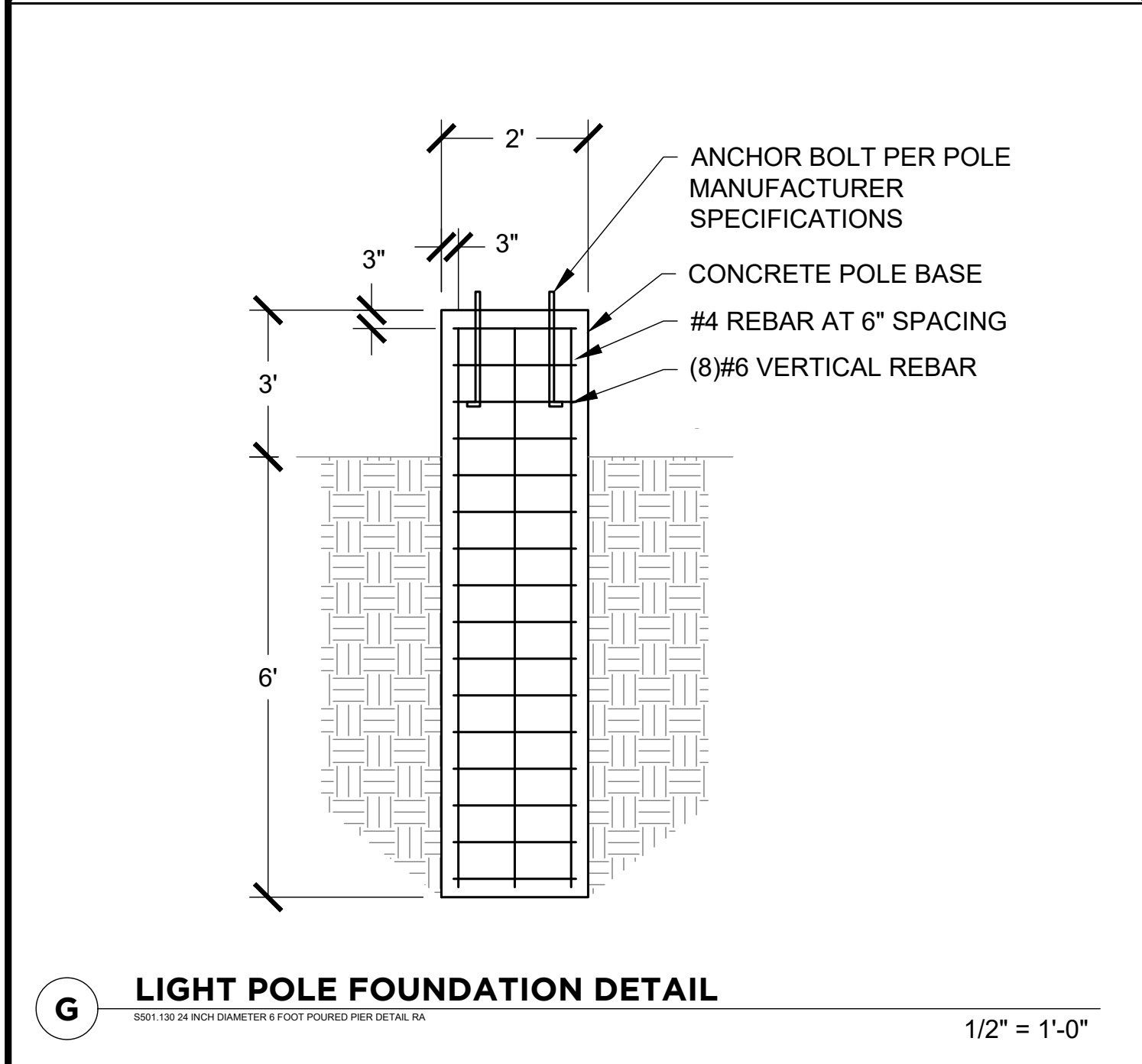
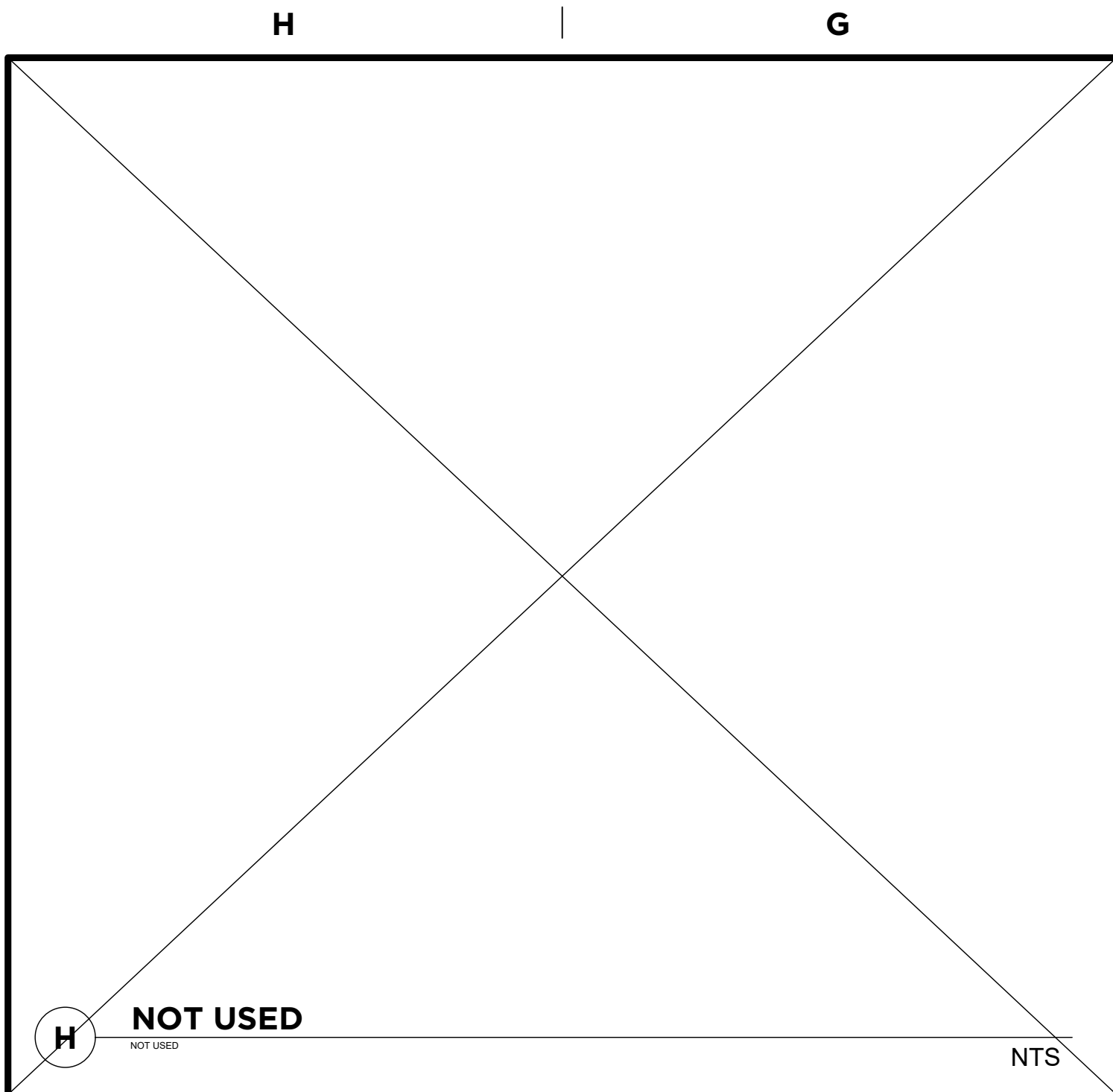
STRUCTURAL
DETAILS

S-501

JB-0185366-00

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CD90



CONCRETE NOTES

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

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