

# TESLA



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



Dewberry Engineers Inc.  
1350 S BOULDER AVE  
SUITE 600  
TULSA, OK 74119  
PHONE: 918.587.7283

## OKLAHOMA CITY, OK - W SHERIDAN AVE.

**SITE ADDRESS:**  
**900 W SHERIDAN AVENUE**  
**OKLAHOMA CITY, OK 73106**  
**TRT: 19140**



SITE INFORMATION	APPLICABLE CODES	PROJECT DESCRIPTION	JURISDICTION INFORMATION	DRAWING INDEX
------------------	------------------	---------------------	--------------------------	---------------

**PROPOSED TESLA EV SITE ADDRESS:**  
900 W SHERIDAN AVENUE  
OKLAHOMA CITY, OK 73106

**PROPERTY OWNER:**  
HC SONIC DRIVE IN LLC  
8950 WALKER MILL RD, CAPITOL  
HEIGHTS, MD 20743

**PARCEL ID:**  
APN: R013688580

**POWER COMPANY:**  
OKLAHOMA GAS & ELECTRIC  
WORK ORDER #: 7713404  
CONTACT: PHILLIP SEMIEN  
semienpj@oge.com

**COUNTY:**  
OKLAHOMA COUNTY

**LATITUDE\*:**  
35° 27' 57.74" N

**LONGITUDE\*:**  
97° 31' 39.16" W  
\*BASED ON GOOGLE EARTH

**PROJECT MANAGER:**  
SHAYNE HASTINGS  
TESLA INC.  
(512) 539-772  
shastings@tesla.com

**CONTACT PROJECT MANAGER:**  
BRIAN GUTHRIDGE  
DEWBERRY ENGINEERS INC.  
(973) 434-1355  
bguthridge@dewberry.com

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

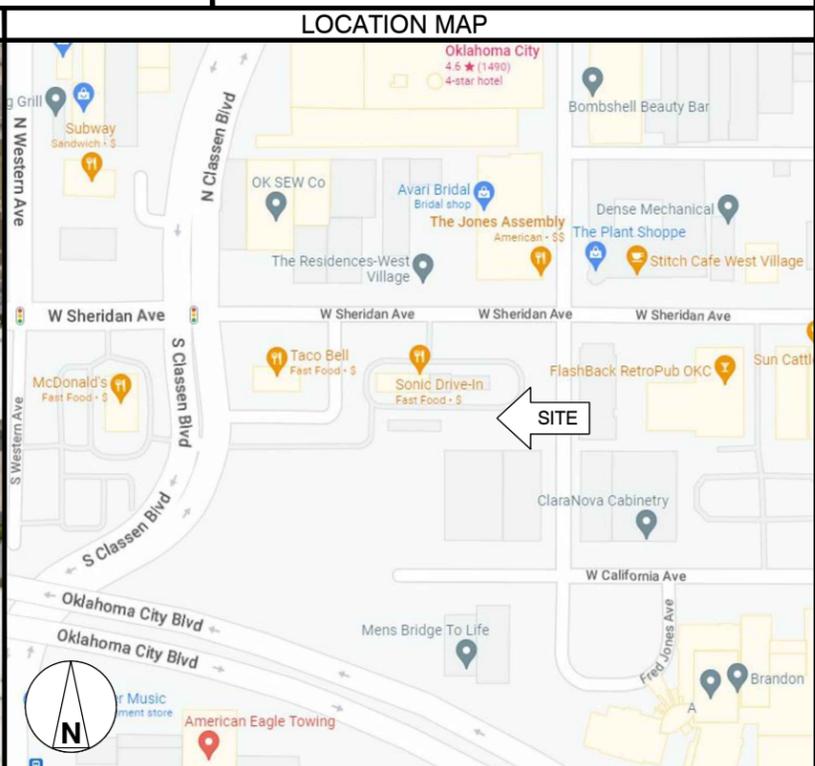
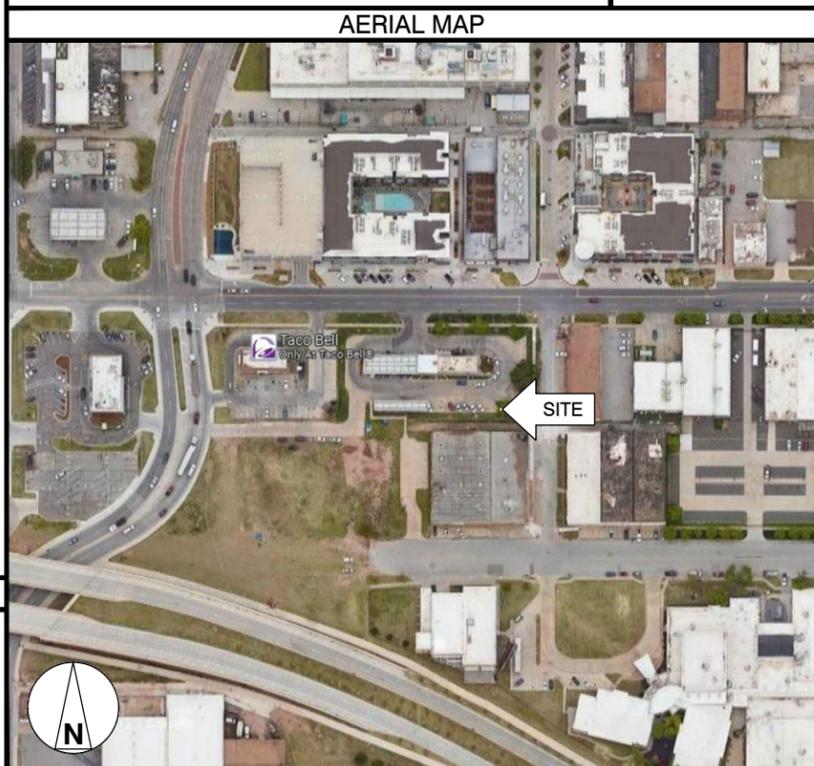
- INTERNATIONAL BUILDING CODE – 2020 IBC
- NATIONAL ELECTRICAL CODE – 2020 NEC
- INTERNATIONAL ENERGY CONSERVATION CODE – 2020 IECC

- INSTALL (2) TESLA SUPERCHARGER CABINETS, EACH W/ (1) SIDE-MOUNTED 600A DISCONNECT
- INSTALL (8) TESLA CHARGING POSTS
- INSTALL (1) UTILITY TRANSFORMER FOUNDATION

PERMITTING JURISDICTION: OKLAHOMA CITY, OK  
APN: R013688580

SHT. NO.	SHEET TITLE
T-1	TITLE SHEET
GN-1	GENERAL NOTES I
GN-2	GENERAL NOTES II
C-1	SITE PLAN
C-2	EXISTING CONDITIONS PLAN
C-2A	DEMOLITION PLAN
C-3	EQUIPMENT/PARKING PLAN
C-3A	ENLARGED PARKING PLAN
C-4	CONSTRUCTION DETAILS I
C-5	CONSTRUCTION DETAILS II
C-6	CONSTRUCTION DETAILS III
E-1	ELECTRICAL RISER DIAGRAM & CIRCUIT SCHEDULE
G-1	GROUNDING PLAN, SCHEMATIC & DETAILS

<b>DRAWN BY:</b>	TK
<b>CHECKED BY:</b>	BG
<b>APPROVED BY:</b>	MCS
<b>PROJECT #:</b>	50123704
<b>JOB #:</b>	50159174



**CONTRACTOR NOTE**

CONTRACTOR SHALL COMPLETE INSTALL PER THE SIGNED AND SEALED SET OF DRAWINGS. ANY NECESSARY DEVIATIONS FROM THE DRAWINGS MUST BE SUBMITTED THROUGH AN RFI REQUEST PROCESS WITH ENGINEERING FOR AN APPROVAL PRIOR TO CONTRACTOR PROCEEDING WITH A DEVIATION OF THE SIGNED AND SEALED SET OF DRAWINGS.

**BEFORE SCALING**  
CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE TESLA REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

**CALL BEFORE YOU DIG**

SUBMITTALS		
REV.	DATE	DESCRIPTION
0	04/21/23	ISSUED FOR PERMITS
B	03/20/23	REVISED PER COMMENT
A	03/09/23	ISSUED FOR 90% REVIEW

**SITE NAME:**  
OKLAHOMA CITY, OK –  
W SHERIDAN AVENUE  
(TRT: 19140)

**SITE ADDRESS:**  
900 W SHERIDAN AVENUE  
OKLAHOMA CITY, OK 73106

**SHEET TITLE**  
TITLE SHEET

**SHEET NUMBER**  
T-1

**GENERAL NOTES:**

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:  
GENERAL CONTRACTOR(S) OR SUB-CONTRACTOR(S) – CIVIL CONTRACTOR AND/OR ELECTRICIAN CONTRACTOR  
PROJECT OWNER/CONSTRUCTION MANAGER – TESLA  
PROJECT HOST – LEGAL PROPERTY OWNER  
ENGINEER – DEWBERRY ENGINEERS INC.
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING THE GENERAL CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF PROJECT OWNER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. THE GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE THE INSTALLATION AS INDICATED ON THE DRAWINGS FOR A FULLY FUNCTIONAL CHARGING STATION AND COMPLETE PROJECT.
- THE SUB-CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON DRAWINGS, THE GENERAL CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE PROJECT ENGINEER. ONLY WRITTEN APPROVALS SHALL BE DEEMED TO CONFIRM ANY SUCH CHANGES AS BEING APPROVED.
- PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT UNIQUE JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK.
- THE GENERAL CONTRACTOR SHALL REVIEW ROUTING OF CONDUIT, POWER AND GROUNDING CABLES AS SHOWN ON THE POWER GROUNDING PLAN DRAWING. THE GENERAL CONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONSTRUCTION MANAGER AND PROJECT HOST.
- INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE PROJECT HOST. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF GENERAL CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY.
- APPLICABLE BUILDING CODES:  
THE GENERAL CONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.  
THE GENERAL CONTRACTOR WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:  
AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE  
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION
- FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.
- THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- THE GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER GENERAL CONTRACTOR(S) AND/OR SUB-CONTRACTOR(S).
- CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
- THE GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND GENERAL CONTRACTOR(S) AND/OR SUB-CONTRACTOR(S) TO THE SITE AND/OR BUILDING.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- THE GENERAL CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE PROJECT HOST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
- THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OR 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
- ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE PROJECT OWNER AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
- GENERAL CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES AND ALL SPECIFIED CLOSE-OUT DOCUMENTATION TO THE PROJECT OWNER UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- THE GENERAL CONTRACTOR SHALL LEAVE THE WORK AREA AND SURROUNDING PREMISES IN A CLEAN CONDITION.
- THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITATION.
- NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.

**SITE WORK NOTES:**

**PART 1 – GENERAL**

- REFERENCES:  
A. DOT (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION-CURRENT EDITION).  
B. AASHTO (AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS)  
C. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).  
D. OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).
- INSPECTION AND TESTING:  
A. FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY AN INDEPENDENT TESTING LAB. THIS WORK IS TO BE COORDINATED BY THE GENERAL CONTRACTOR.  
B. ALL WORK SHALL BE INSPECTED AND VERIFIED FOR CONFORMANCE AND RELEASED BY THE ENGINEER WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE GENERAL CONTRACTOR(S) RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.
- SITE MAINTENANCE AND PROTECTION:  
A. PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE CONTRACT.  
B. AVOID DAMAGE AND TAKE PROTECTIVE MEASURES TO THE SITE AND TO EXISTING FACILITIES, IMPROVEMENTS, STRUCTURES, PAVEMENTS, CURBS, AND LANDSCAPING DESIGNATED TO REMAIN. ANY DAMAGED PART SHALL BE REPAIRED AT SUB-CONTRACTOR(S) EXPENSE TO THE SATISFACTION OF THE PROJECT HOST.  
C. KEEP SITE FREE OF ALL PONDING OR STANDING WATER.  
D. PROVIDE EROSION CONTROL MEASURES, IF REQUIRED, SHALL BE IN ACCORDANCE WITH STATE DOT, LOCAL PERMITTING AGENCY AND EPA REQUIREMENTS.  
E. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.  
F. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUB-CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. THE GENERAL CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.  
G. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE PROJECT OWNER AND/OR LOCAL UTILITIES.  
H. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE PROJECT HOST OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE PROJECT HOST AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.  
I. PROVIDE A MINIMUM 48-HOUR NOTICE TO THE PROJECT HOST AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.  
J. SOD PLANTED IN THE FALL MUST ESTABLISH ITS ROOTS BEFORE THE FIRST WINTER FROST. DETERMINE WHEN THE FIRST FROST USUALLY OCCURS, AND PLANT THE SOD NO LATER THAN ONE MONTH BEFORE THE FIRST FROST. IF THE CONSTRUCTION IS FINISHED LATER THAN ONE MONTH BEFORE THE FIRST FROST, USE STRAW UNTIL SOD CAN BE INSTALLED.  
K. THE GENERAL CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS, RUBBISH, DEBRIS, STUMPS, STICKS, AND STONES.  
L. THE GENERAL CONTRACTOR SHALL REMOVE ALL TRASH DEBRIS FROM THE SITE ON A DAILY BASIS.  
M. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT TREES, VEGETATION, AND ROOT SYSTEMS DURING CONSTRUCTION.  
N. CONTRACTOR TO COORDINATE POST CONSTRUCTION LANDSCAPING FINISHES WITH OWNER AND TESLA.

**PART 2 – PRODUCTS**

2.1 GRANULAR BACKFILL: SHALL MEET THE FOLLOWING GRADATION:

SIEVE SIZE	TOTAL PERCENT PASSING
1-1/2 INCH	100
1 INCH	75 TO 100
3/4 INCH	80 TO 100
3/8 INCH	35 TO 75
NO. 4	30 TO 60
NO. 30	7 TO 30
NO. 200	3 TO 15

2.2 GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SE OR SW-SM).

2.3 ALL STRUCTURAL BACKFILL AND SUBBASE UNDER SLABS SHALL BE SELECT STRUCTURAL FILL MEETING THE GRADATION AND SOUNDNESS REQUIREMENTS IN ACCORDANCE WITH THE FOLLOWING:

SIEVE SIZE	TOTAL PERCENT PASSING
4 INCH	100
NO. 40	0 TO 70
NO. 200	0 TO 40

2.4 MATERIALS SHALL BE SUBSTANTIALLY FREE OF SHALE OR OTHER SOFT, POOR DURABILITY PARTICLES. IF TESTING IS ELECTED BY PROJECT OWNER, MATERIAL WITH A MAGNESIUM SULFATE SOUNDNESS LOSS EXCEEDING 30% WILL BE REJECTED.

2.5 COARSE AGGREGATE FOR SUBBASE COURSE SHALL CONFORM TO ASTM D2940.

2.6 UNSUITABLE MATERIAL: HIGH AND MODERATELY PLASTIC SILTS AND CLAYS (LL>45). MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES IN ANY DIMENSION, AND DEBRIS AS DETERMINED BY THE ENGINEER. TYPICALLY THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT, MH, CH, OH, ML, AND OL.

**PART 3 – EXECUTION**

- GENERAL:  
A. BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF A RAIN EVENT, NO SEDIMENT WILL LEAVE THE WORK SITE.  
B. BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.  
C. CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED.  
D. REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE ORIGINAL GROUND SURFACE: ROOTS, STUMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE, RAKE, DISK OR PLOW THE AREA TO A DEPTH OF NO LESS THAN 6 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND OTHER DEBRIS THEREBY EXPOSED.  
E. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR UNDESIRABLE MATERIALS.

- EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH GRANULAR FILL.
- REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.
- PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION. NOTIFY THE ENGINEER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
- SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
- DURING EXCAVATION, THE SUB-CONTRACTOR SHALL PROVIDE SHORING, SHEETING, AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF EXCAVATION.
- WHEN DIRECTIONAL BORING IS REQUIRED, SUB-CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.

**3.2 BACKFILL:**

- AS SOON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH SPECIFIED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
- PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW, OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 12-INCHES LOOSE THICKNESS AND COMPACTED. WHERE HAND OPERATED COMPACTORS ARE USED, FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12-INCHES IN LOOSE DEPTH AND COMPACTED.
- THOROUGHLY COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS ESTABLISHED BY THE STANDARD PROCTOR TEST, ASTM D 698.
- WHENEVER THE DENSITY TESTING INDICATES THAT THE SUB-CONTRACTOR(S) HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION REQUIREMENTS ARE MET UNLESS OTHERWISE AUTHORIZED BY THE CONSTRUCTION MANAGER. THE SUB-CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY, SUCH AS DISKING AND DRYING, ADDING WATER, OR INCREASING THE COMPACTIVE EFFORT TO MEET THE MINIMUM COMPACTION REQUIREMENTS.
- THE SUB-CONTRACTOR SHALL OBTAIN GRAB SAMPLES OF SUFFICIENT QUANTITY TO PROVIDE TO LAB FOR PURPOSE OF DETERMINING MAX DRY DENSITY. ALL LOOSE AND/OR ORGANIC MATERIAL SHALL BE REMOVED PRIOR TO PREPARATION OF THE AREA FOR PLACEMENT OF STRUCTURAL BACKFILL. OVERALL PLAN AREA OF WORK SHALL EXTEND 3'-0" MINIMUM BEYOND THE FINAL DIMENSIONS.
- SCARIFY THE EXISTING SOILS TO A DEPTH OF 6" AND RE-COMPACT USING A VIBRATING PLATE OR TAMPER. ANY SOFT AREAS SHALL BE OVEREXCAVATED 12" AND BACKFILLED WITH MATERIALS AND COMPACTION REQUIREMENTS SHOWN ON THE DRAWINGS.
- PLACEMENT AND COMPACTION OF STRUCTURAL BACKFILL AND SUBBASE SHALL BE IN 12" LIFTS. EXCAVATE FOR THE FOOTING EDGE AS SHOWN ON THE DRAWINGS.

**3.3 TRENCHING EXCAVATION:**

- UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE GENERAL CONTRACTOR. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.
- EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE EDGE OF THE OUTERMOST CONDUIT.
- WHEN SOFT YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, EXCAVATE THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION, THEN BACKFILL WITH 12" OF GRANULAR MATERIAL.

**3.4 TRENCHING BACKFILL:**

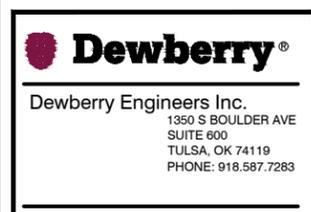
- PROVIDE GRANULAR BEDDING MATERIAL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.
- NOTIFY THE ENGINEER 24 HOURS IN ADVANCE OF BACKFILLING.
- CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.
- PLACE GRANULAR BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6-INCH UNCOMPACTED LIFTS UNTIL 12 INCHES OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACE AROUND CONDUITS AND HAUNCHES.
- PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.
- ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 12-INCH MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
- COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING UNDISTURBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH BUT NO LESS THAN A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS ESTABLISHED BY THE STANDARD PROCTOR TEST, ASTM D 698.
- PER LOCAL REGULATORY AUTHORITY AND AS APPLICABLE, ALL TRENCHES IN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.

**3.5 FINISH GRADING:**

- PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL MATCH SURROUNDING TOPOGRAPHY AND STRUCTURES.
- UTILIZE GRANULAR FILL RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
- REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL OR BETTER CONDITION.
- AREAS OF THE PROJECT HOST'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT OR PARKING/DRIVING AREAS SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION.

**3.6 ASPHALT PAVING ROAD:**

- AASHTO
- STATE SPECIFIC ASPHALT SPECIFICATIONS FOR HIGHWAYS
- THE SUB-CONTRACTOR IS RESPONSIBLE FOR RE-STRIPING AND APPLYING SEALCOATING, UNLESS OTHERWISE SPECIFIED.



DRAWN BY:	TK
CHECKED BY:	BG
APPROVED BY:	MCS
PROJECT #:	50123704
JOB #:	50159174

SUBMITTALS		
REV.	DATE	DESCRIPTION
0	04/21/23	ISSUED FOR PERMITS
B	03/20/23	REVISED PER COMMENT
A	03/09/23	ISSUED FOR 90% REVIEW

**SITE NAME:**  
OKLAHOMA CITY, OK –  
W SHERIDAN AVENUE  
(TRT: 19140)  
**SITE ADDRESS:**  
900 W SHERIDAN AVENUE  
OKLAHOMA CITY, OK 73106

**SHEET TITLE**  
GENERAL NOTES I

**SHEET NUMBER**  
GN-1

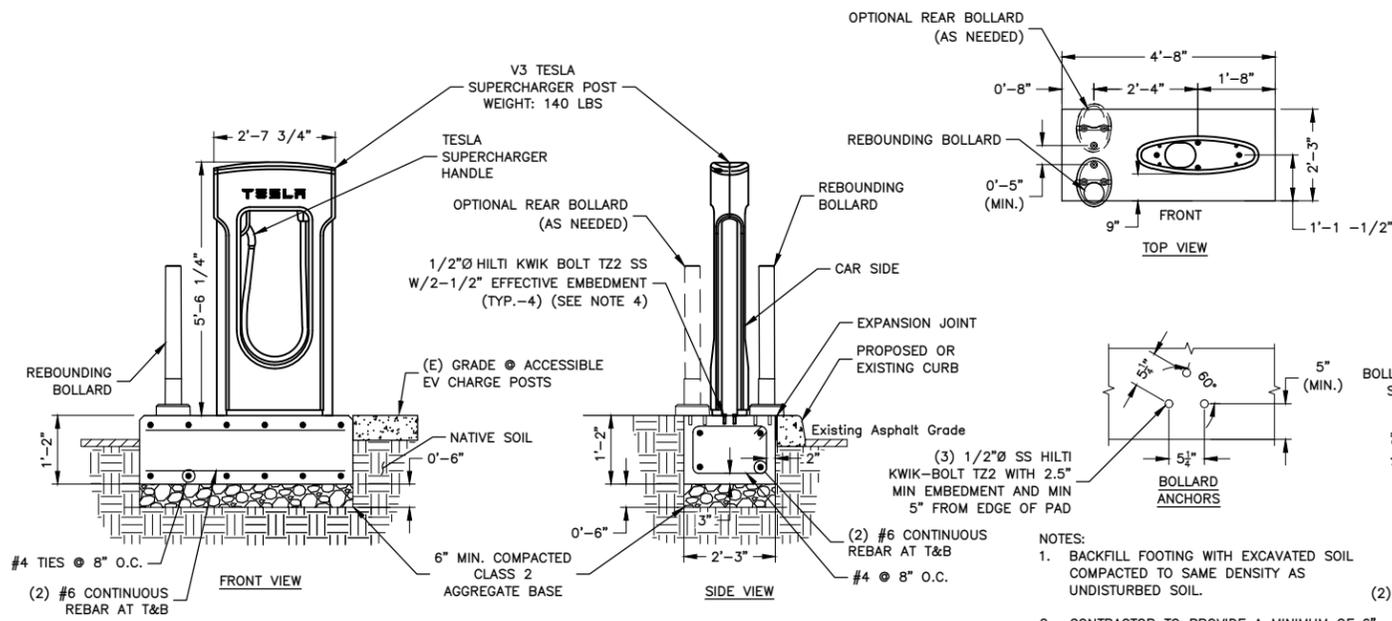






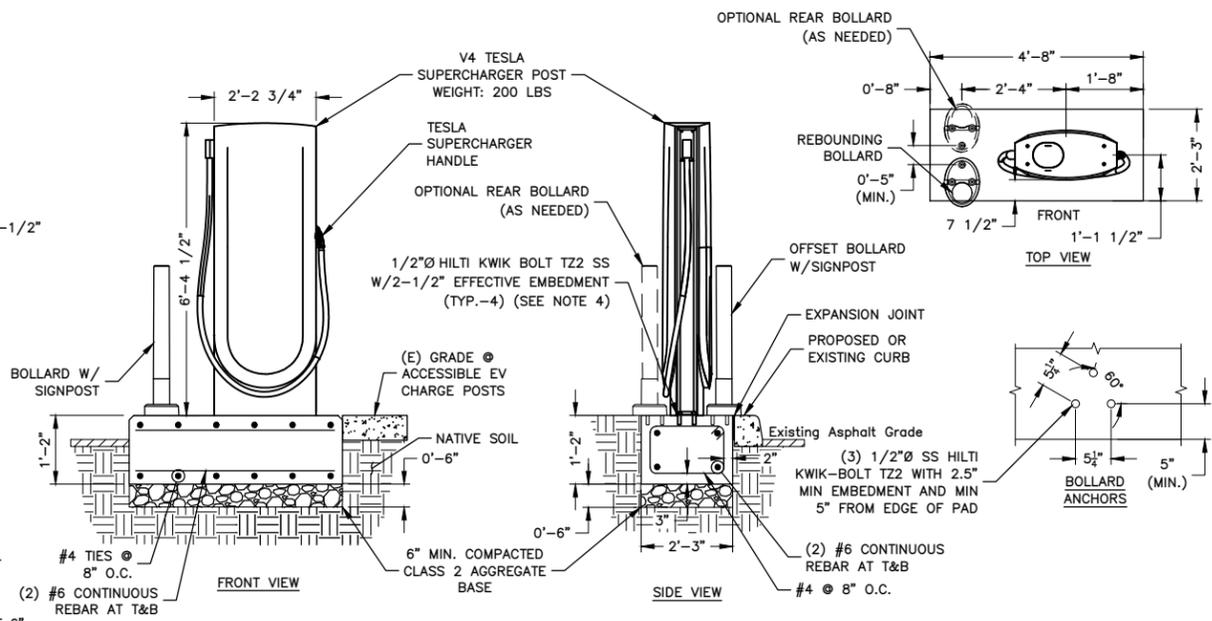






**V3 SUPERCHARGER POST CAST-IN-PLACE FOUNDATION**  
SCALE: N.T.S.

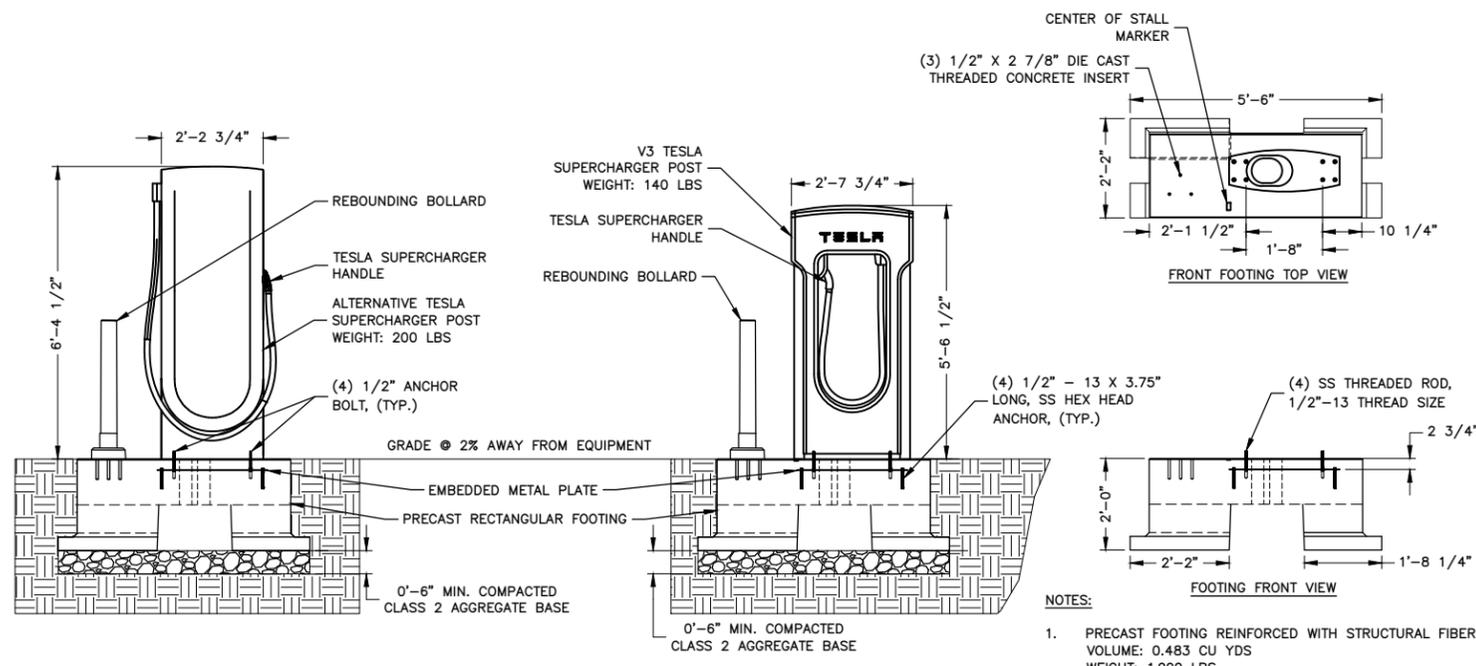
1



**V4 SUPERCHARGER POST CAST-IN-PLACE FOUNDATION**  
SCALE: N.T.S.

2

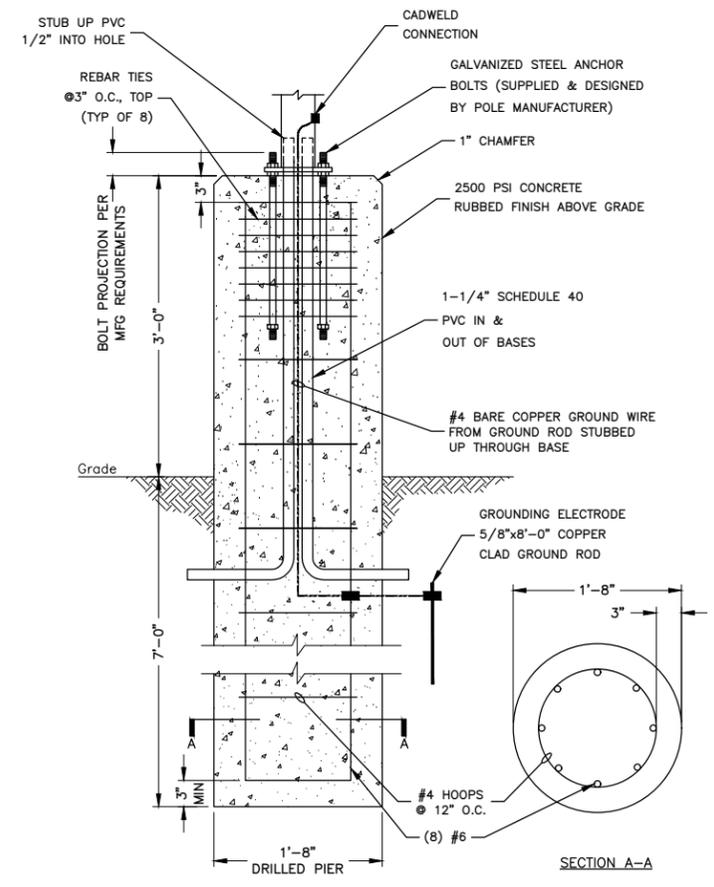
- NOTES:
1. BACKFILL FOOTING WITH EXCAVATED SOIL COMPACTED TO SAME DENSITY AS UNDISTURBED SOIL.
  2. CONTRACTOR TO PROVIDE A MINIMUM OF 6" OF COMPACTED CRUSHED STONE FOR CAPILLARY BREAK AND CONSTRUCTION CONTROL UNDER ALL CONCRETE SLABS.
  3. CONTRACTOR SHALL IDENTIFY POOR DRAINING SOILS AND PROVIDE ADDITIONAL COMPACTED, WELL GRADED COURSE-GRAINED SOIL BACKFILL TO FROST DEPTH. CONTRACTOR TO NOTIFY TESLA CM AND ENGINEER.
  4. CONTRACTOR MAY USE 1/2"Ø HILTI HIT-HY 200 V3 + HAS-R SS WITH 4" MIN. EFFECTIVE EMBEDMENT (TYP.-4) AS CIP CHARGE POST ANCHOR ALTERNATIVE.



**TESLA SUPERCHARGER POST DETAIL**  
SCALE: N.T.S.

3

- NOTES:
1. PRECAST FOOTING REINFORCED WITH STRUCTURAL FIBER VOLUME: 0.483 CU YDS WEIGHT: 1,990 LBS SEE CUTSHEETS FOR ADDITIONAL INFORMATION
  2. S501.1333 SUPERCHARGER POST CENTER ON CENTER PRECAST FOOTING DETAIL RA WIND RATING (WITHOUT SIGN) = 134 MPH WIND RATING (WITH SIGN) = 120 MPH



**PEDESTRIAN LIGHT POLE BASE DETAIL**  
SCALE: N.T.S.

4



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



Dewberry Engineers Inc.  
1350 S BOULDER AVE  
SUITE 600  
TULSA, OK 74119  
PHONE: 918.587.7283



DRAWN BY:	TK
CHECKED BY:	BG
APPROVED BY:	MCS
PROJECT #:	50123704
JOB #:	50159174

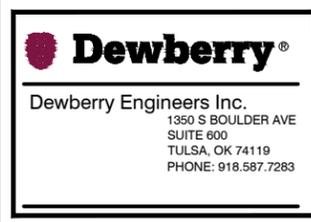
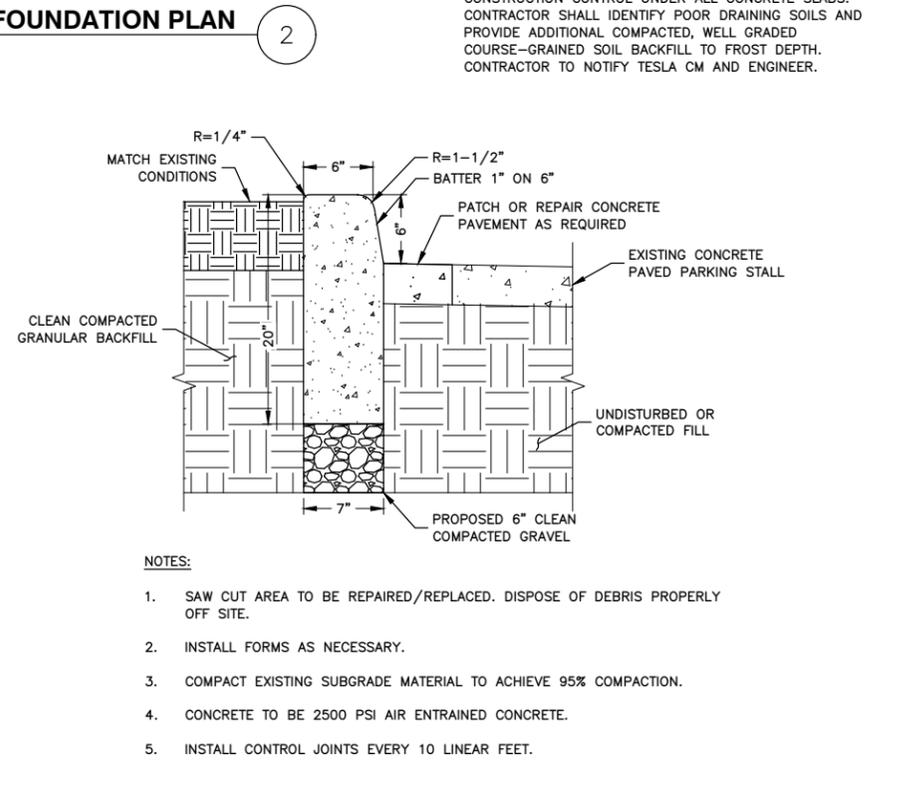
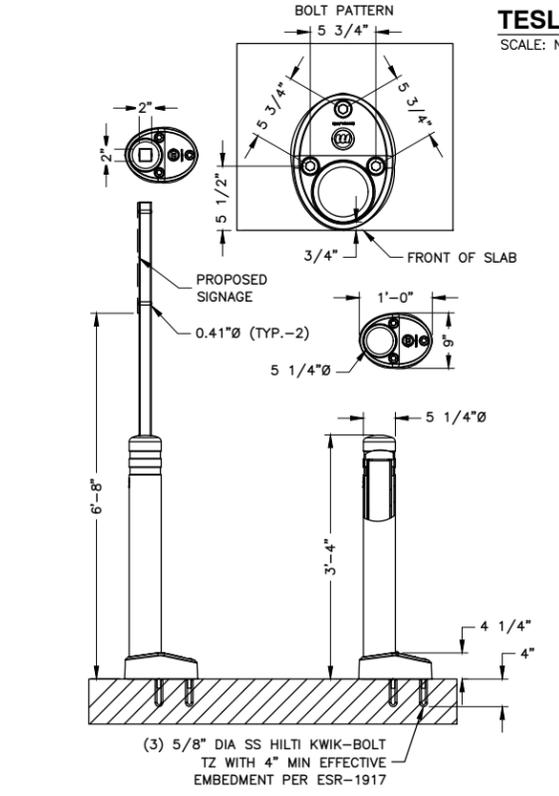
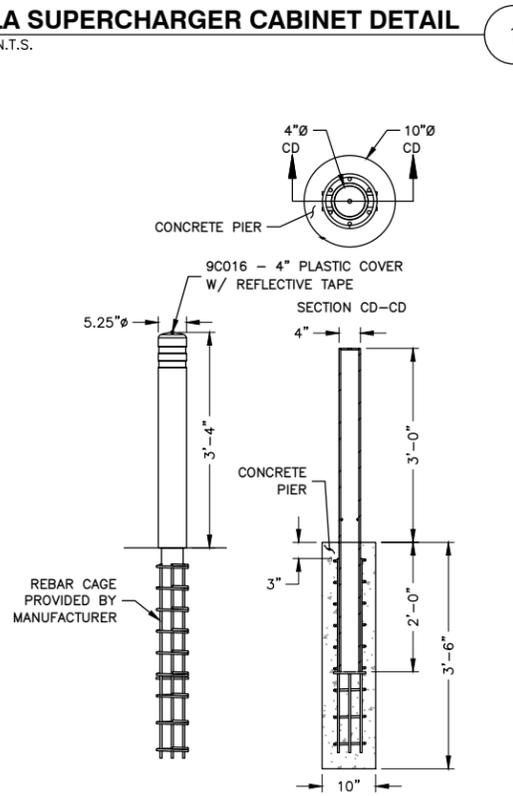
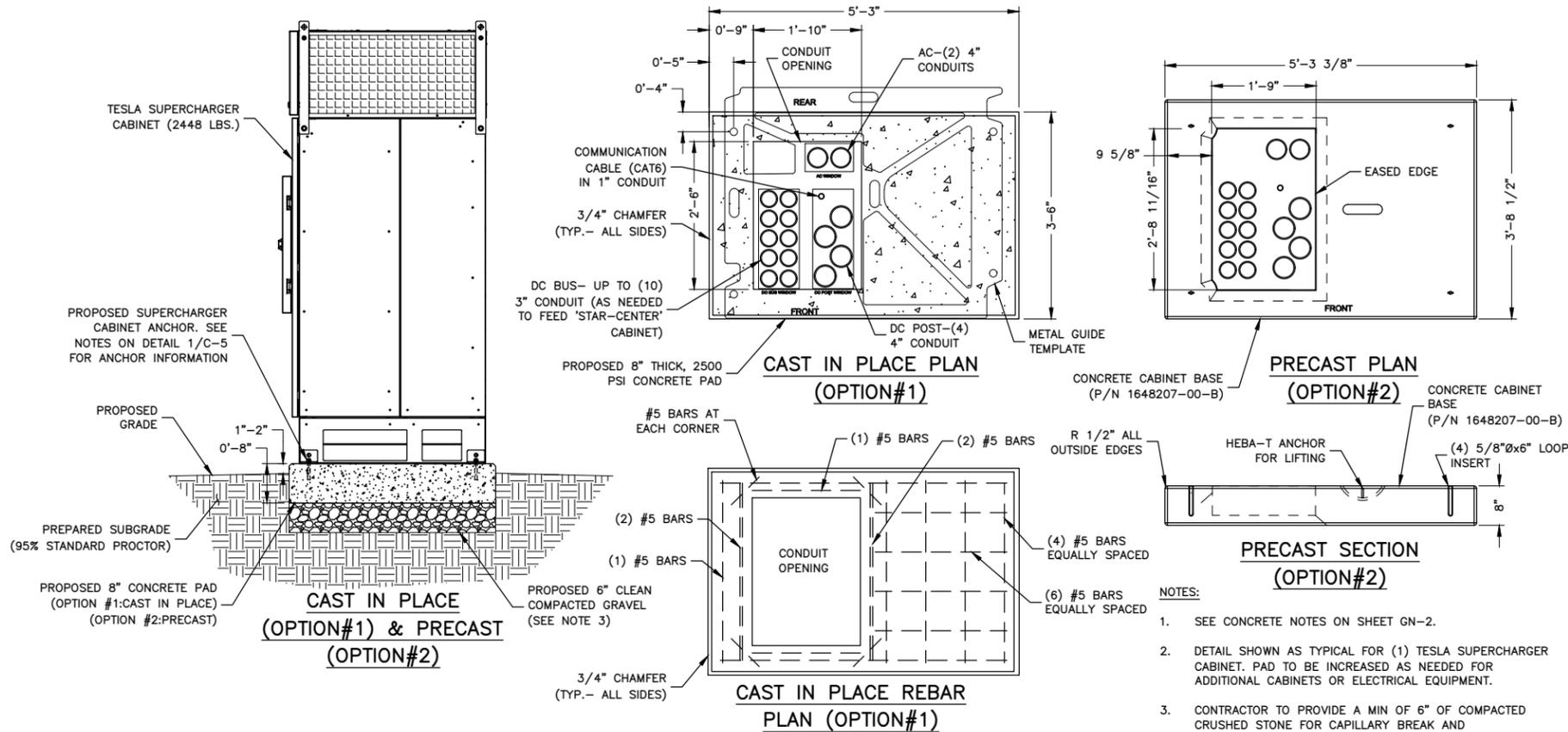
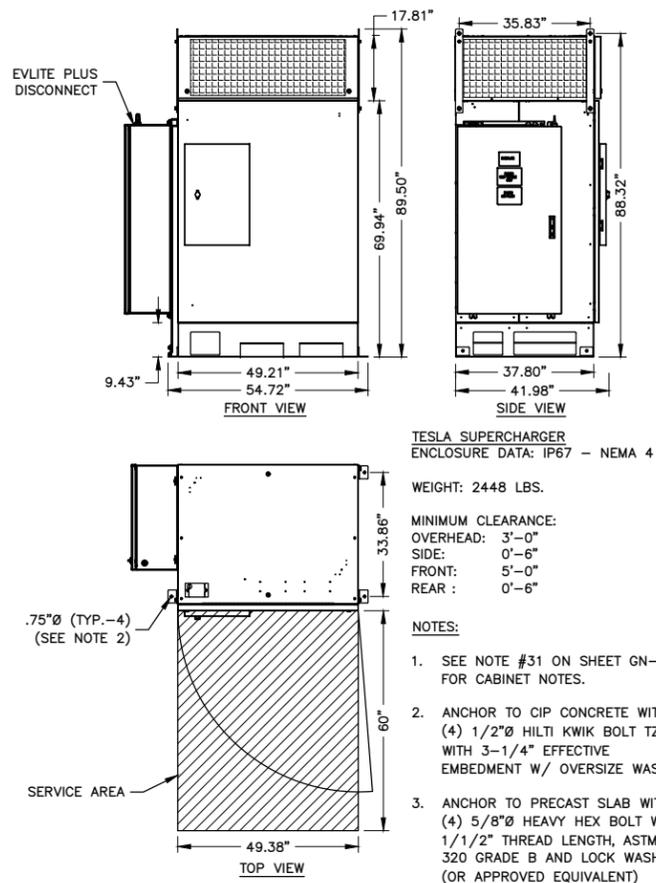
SUBMITTALS		
REV.	DATE	DESCRIPTION
0	04/21/23	ISSUED FOR PERMITS
B	03/20/23	REVISED PER COMMENT
A	03/09/23	ISSUED FOR 90% REVIEW

SITE NAME:  
OKLAHOMA CITY, OK -  
W SHERIDAN AVENUE  
(TRT: 19140)

SITE ADDRESS:  
900 W SHERIDAN AVENUE  
OKLAHOMA CITY, OK 73106

SHEET TITLE  
**CONSTRUCTION  
DETAILS I**

SHEET NUMBER  
**C-4**



DRAWN BY: TK

CHECKED BY: BG

APPROVED BY: MCS

PROJECT #: 50123704

JOB #: 50159174

**SUBMITTALS**

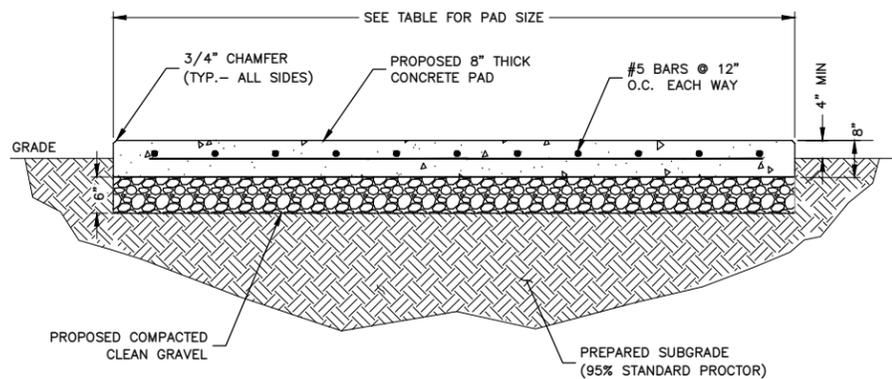
REV.	DATE	DESCRIPTION
0	04/21/23	ISSUED FOR PERMITS
B	03/20/23	REVISED PER COMMENT
A	03/09/23	ISSUED FOR 90% REVIEW

**SITE NAME:**  
OKLAHOMA CITY, OK - W SHERIDAN AVENUE (TR: 19140)

**SITE ADDRESS:**  
900 W SHERIDAN AVENUE  
OKLAHOMA CITY, OK 73106

**SHEET TITLE**  
CONSTRUCTION DETAILS II

**SHEET NUMBER**  
C-5



CONCRETE PAD DIMENSIONS					
PAD TYPE	CONCRETE	L	W	t (THICKNESS)	AREA
SUPERCHARGER	2500 PSI	10'-0"	3'-6"	10"	35 S.F.

**NOTE:**

- SEE CONCRETE NOTES ON SHEET GN-2.
- SWITCHGEAR ANCHORS SHALL BE: (8) 1/2"Ø HILTI HIT-HY 200 V3 + HIS-N B7 W/ 5" EFFECTIVE EMBEDMENT

**CAST IN PLACE CONCRETE PAD**

SCALE: N.T.S.

1



ACCESSIBLE-VAN

**ACCESSIBLE SIGNAGE DETAIL**

SCALE: N.T.S.

2



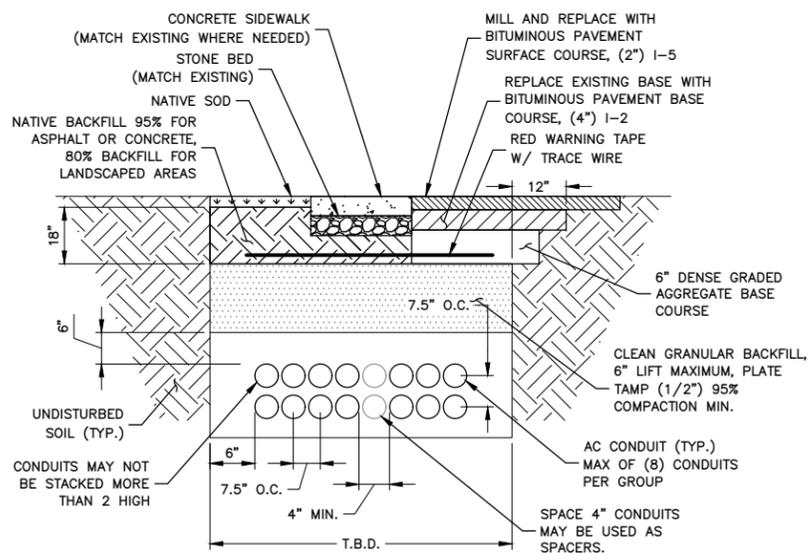
**NOTES:**

- SIGN TO BE DISPLAYED ON THE 12' VAN ACCESSIBLE STALL ONLY.

**DISABLED ACCESS SIGN**

SCALE: N.T.S.

3



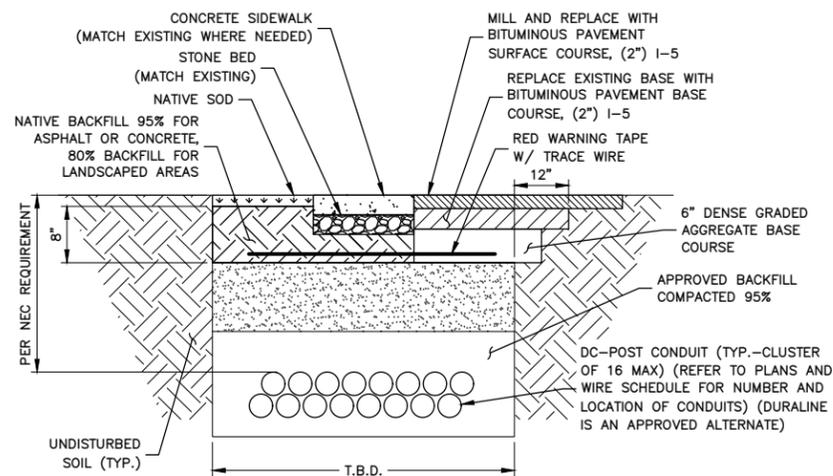
**NOTES:**

- IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL.
- IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL. COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING.
- CONCRETE ENCASE CONDUIT WHEN TRENCHING UNDER SITE ACCESS ROAD.
- ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE CONSTRUCTION CONDITIONS OR BETTER.
- MAINTAIN 12" SEPARATION MIN. BETWEEN AC OR DC CONDUCTORS AND COMMUNICATION CABLES.

**TYP. BURIED CONDUIT TRENCH DETAILS**

SCALE: N.T.S.

4



- CONFIRM ALL DEPTHS W/UTILITY & NEC PRIOR TO CONSTRUCTION.
- FOR TRENCHES WITH MIXED CIRCUIT TYPES, APPLY THE CONDUIT SPACING FOR THE CIRCUIT TYPE WITH THE LARGER SPACING REQUIREMENT.
- 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 IS REQUIRED.
- 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.



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



Dewberry Engineers Inc.  
1350 S BOULDER AVE  
SUITE 600  
TULSA, OK 74119  
PHONE: 918.587.7283



DRAWN BY: TK

CHECKED BY: BG

APPROVED BY: MCS

PROJECT #: 50123704

JOB #: 50159174

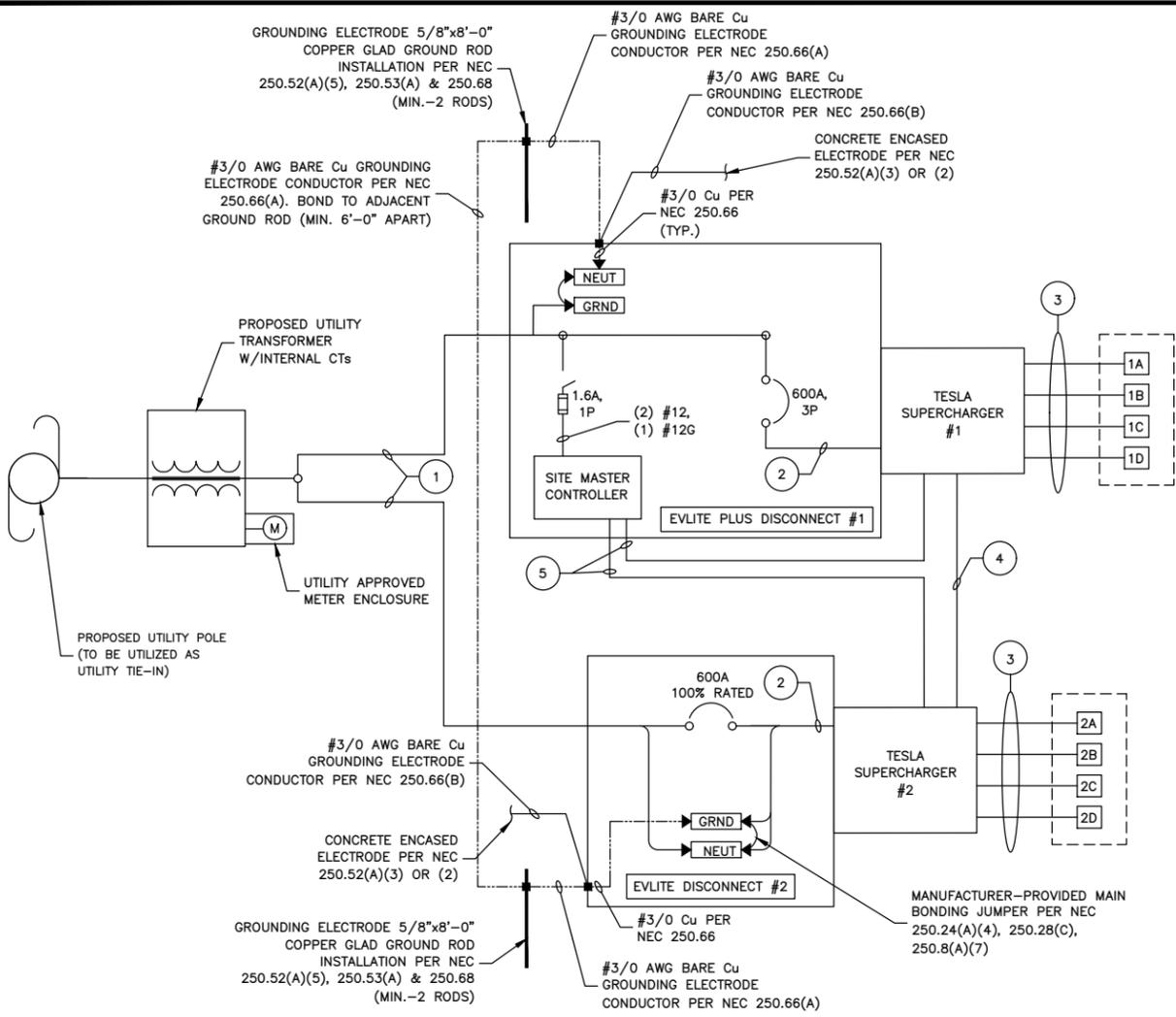
SUBMITTALS		
REV.	DATE	DESCRIPTION
0	04/21/23	ISSUED FOR PERMITS
B	03/20/23	REVISED PER COMMENT
A	03/09/23	ISSUED FOR 90% REVIEW

**SITE NAME:**  
OKLAHOMA CITY, OK -  
W SHERIDAN AVENUE  
(TRT: 19140)

**SITE ADDRESS:**  
900 W SHERIDAN AVENUE  
OKLAHOMA CITY, OK 73106

**SHEET TITLE**  
CONSTRUCTION  
DETAILS III

**SHEET NUMBER**  
C-6



**SYSTEM ONE-LINE DIAGRAM**  
SCALE: N.T.S.

**SERVICE DISCONNECT 1 OF 2. DISCONNECT LOCATED AT SC #2**

**SERVICE DISCONNECT 2 OF 2. DISCONNECT LOCATED AT SC #1**

**TESLA EV SYSTEM DISCONNECT**

**SYSTEM PLACARDS**  
SCALE: N.T.S.

- NOTES:**
- CONDUCTOR LENGTHS ARE ESTIMATES ONLY. FINAL CONDUCTOR ROUTING PATH AND LENGTHS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD BASED ON PHYSICAL MEASUREMENTS. CONTRACTOR TO ORDER CONDUCTORS BASED ON FIELD MEASUREMENTS (MUST BE APPROVED BY TESLA INSTALLATION MANAGER).
  - ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ON-SITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) AND UTILITY COMPANY STANDARDS.
  - ALL CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION.
  - DC RUN LENGTH MAXIMUM IS 340' INCLUDING BURIED DEPTH. ANY DC RUN LENGTHS OVER THE MAXIMUM SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF TESLA.
  - UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRE CONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATION.
  - UTILITY CONDUITS, CONNECTORS, TRANSFORMER PAD & TRANSFORMER FOUNDATION TO BE INSTALLED PER UTILITY SPECIFICATION. CONFIRM LATEST SPECIFICATIONS PRIOR TO CONSTRUCTION.
  - SYSTEM GROUNDING RESISTANCE SHALL BE LESS THAN 25Ω PER NEC. ADD ADDITIONAL GROUND RODS AS NEEDED TO SYSTEM UNTIL RESISTANCE IS MET. COORDINATE WITH VENDOR FOR REQUIRED SYSTEM GROUNDING RESISTANCE BEYOND 25Ω.
  - EXISTING UNDERGROUND UTILITIES LOCATED WITHIN AREA OF PROPOSED TRENCH & EQUIPMENT SITE AREA. HAND DIG AND RELOCATE AS REQUIRED. RELOCATION OF ANY EXISTING UTILITIES ON NJTA PROPERTY REQUIRES NJTA APPROVAL.
  - CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC SAFETY MEASURES THROUGHOUT DURATION OF CONSTRUCTION. COORDINATE ANY ACCESS ROAD CLOSURES W/OWNER.
  - GROUND-FAULT PROTECTION OF EQUIPMENT SHALL BE PROVIDED FOR SOLIDLY GROUND WYE ELECTRICAL SERVICES OF MORE THAN 150 VOLTS TO GROUND, BUT NOT EXCEEDING 1000 VOLTS PHASE-TO-PHASE FOR EACH SERVICE DISCONNECT RATED 1000 AMPERES OR MORE. REFERENCE 2020 NEC ART 230.95.
  - GFPE TESTING REQUIRED. REFERENCE 2020 NEC 230.95(C).

SERVICE ELECTRICAL CIRCUIT SCHEDULE			
NO:	FROM	TO	CONFIGURATION
1	PROPOSED TRANSFORMER	PROPOSED 600A 'EVLITE' DISCONNECT (100% RATED) (TYP.-2)	[2 SETS PER DISCONNECT:] (3) 500MCM AL (XHHW-2) & (1) 500MCM AL (XHHW-2) NEUT IN 4" PVC CONDUIT
2	PROPOSED SERVICE BREAKER (600A, 100% RATED) (TYP.-2)	PROPOSED TESLA SUPERCHARGER (TYP.-2)	[2 SETS:] (3) 500MCM AL (THWN-2) (1) 500MCM AL (THWN-2) NEUT (1) #1 CU OR 2/0 AL EGC* IN FACTORY PROVIDED RACEWAY
3A	PROPOSED TESLA SUPERCHARGER (TYP.-2)	PROPOSED TESLA V3 POST*** (TYP.-8)	[1 SET PER CHARGE POST:] (4) 350MCM AL (XHHW-2) (1000V RATED) (1) #1 AWG CU EGC OR (1) #2/0 AL EGC* & SHIELDED 600 V COMM CABLE (PER TESLA) IN 4" PVC/HDPE CONDUIT**
3B	PROPOSED TESLA SUPERCHARGER (TYP.-2)	PROPOSED TESLA V4 POST*** (TYP.-8)	[1 SET PER CHARGE POST:] (4) 600MCM AL (XHHW-2) (1000V RATED) (1) 2/0 AWG CU EGC (2) #6 CU (1000V RATED) & SHIELDED 1000V COMM CABLE (PER TESLA) IN 4" EMT CONDUIT SEPARATE (1) 1" CONDUIT FOR LVDC/COMMS
4	DC BUS BETWEEN PROPOSED SUPERCHARGERS	DC BUS BETWEEN PROPOSED SUPERCHARGERS	[2 SETS:] (2) 600MCM AL (XHHW-2) (1) 1/0 AWG CU EGC & (1) 3/0 AWG AL DC MID 1000V RATED IN 3" PVC/HDPE CONDUIT**
5	INTEGRATED SITE CONTROLLER	SUPERCHARGER (TYP.)	SHIELDED 600V RATED CAT6 COMM CABLE IN 1" PVC/HDPE CONDUIT**

\* MODIFIED PER NEC 250.64(A)(2)  
\*\* PER UL 615A AND NEC 253, LISTED HDPE CONDUIT PERMITTED. CONTRACTOR TO CONFIRM USE W/ TESLA CM  
\*\*\* INSTALL APPLICABLE WIRING CONFIGURATION CORRESPONDING WITH CHARGE POST TYPE INSTALLED.

NOTE: THE DC BUS SHALL BE CONFIGURED IN A RADIAL FASHION WHERE ALL CONDUCTORS ROUTE FROM EACH 'TYPICAL' SUPERCHARGER CABINET, TO THE ONE, 'STAR CENTER' SUPERCHARGER CABINET.

BREAKER TRIP SETTINGS	
600A (80%) SUPERCHARGER BREAKER: (EATON PDG33G0600TFAN)	LONG TIME PICK UP (I <sub>r</sub> ) = FIXED 600A INSTANTANEOUS = 5
600A (80%) SUPERCHARGER BREAKER: (EATON LGH3600FAG)	LONG TIME PICK UP (I <sub>r</sub> ) = FIXED 600A INSTANTANEOUS = 10
600A (80%) SUPERCHARGER BREAKER: (SQUARE-D LIL36600U31XYP)	LONG TIME PICK UP (I <sub>r</sub> ) = FIXED 600A INSTANTANEOUS = 9
600A (80%) SUPERCHARGER BREAKER: (SQUARE-D LIL36600U31XYP)	LONG TIME PICK UP (I <sub>r</sub> ) = FIXED 600A LONG DELAY TIME (I <sub>tr</sub> ) = 0.5 INSTANTANEOUS = 5
600A (80%) SUPERCHARGER BREAKER: (ABB XT5HU360BFF000XXX)	LONG TIME PICK UP (I <sub>r</sub> ) = FIXED 600A INSTANTANEOUS = MED

NOTE:  
1. CONTRACTOR TO CONFIRM BREAKER MODEL AND CORRECT BREAKER SETTINGS AT TIME OF INSTALLATION

**UTILITY FAULT CURRENT**

TRANSFORMER: TBD KVA  
SECONDARY VOLTAGE: 480/277  
SECONDARY FAULT CURRENT: TBD A

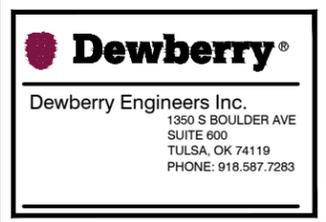
\* FAULT CURRENT INFORMATION PROVIDED BY OGE XX/XX/XX.  
**PENDING UTILITY RESPONSE**

UTILITY S.O.W. RESPONSIBILITIES		
SCOPE OF WORK	BY UTILITY	BY CONTRACTOR
PROVIDE & INSTALL PRIMARY SIDE OVERHEAD CONDUCTORS	X	
PROVIDE & INSTALL PRIMARY SIDE CONDUCTORS	X	
PROVIDE & INSTALL UTILITY POLE (RISER BY CONTRACTOR)	X	
PROVIDE & INSTALL UTILITY TRANSFORMER	X	
INSTALL PRIMARY & SECONDARY CONNECTIONS AT UTILITY TRANSFORMER	X	
PROVIDE & INSTALL METER BASE		X
PROVIDE METER	X	
INSTALL METER		X
PROVIDE & INSTALL CT CABINET		X
PROVIDE & INSTALL CTS (INSIDE CT CABINET)	X	
PROVIDE PT CAN	X	
INSTALL PT CAN		X
PROVIDE SECONDARY SIDE TRENCHING		X
PROVIDE & INSTALL SECONDARY SIDE CONDUITS & CONDUCTORS		X
PROVIDE ROAD CUTS/ROAD BORES		X
PROVIDE & INSTALL PAVEMENT REPLACEMENT		X

NOTE: SCOPE SHOWN ABOVE WAS PROVIDED BY CENTERPOINT. FIELD VERIFY PRIOR TO CONSTRUCTION.

DC CHARGING POST LENGTHS			
SUPERCHARGER	CHARGE POST	LINEAR LENGTH	ESTIMATED DC WIRE LENGTH*
1	1A	6'	28'
	1B	27'	49'
	1C	36'	58'
	1D	45'	67'
2	2A	54'	76'
	2B	63'	85'
	2C	72'	94'
	2D	87'	109'
CONDUIT LENGTH:			566'
TOTAL CONDUCTOR LENGTH**:			2264'
TOTAL LENGTH OF EGC & COMM CABLE:			566'

NOTES:  
1. SEE SHEET E-1 FOR WIRE CONFIGURATION.  
2. ANY DC RUN OVER 340' SHALL BE BROUGHT TO THE ATTENTION OF TESLA CM.  
\* 22 FT IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR BURIED DEPTH & TRANSITIONS.  
\*\* ESTIMATED LENGTH OF DC AL WIRE = SUM OF ESTIMATED LENGTH X 4 WIRES PER SUPERCHARGER



DRAWN BY:	TK
CHECKED BY:	BG
APPROVED BY:	MCS
PROJECT #:	50123704
JOB #:	50159174

SUBMITTALS		
REV.	DATE	DESCRIPTION
0	04/21/23	ISSUED FOR PERMITS
B	03/20/23	REVISED PER COMMENT
A	03/09/23	ISSUED FOR 90% REVIEW

**SITE NAME:**  
OKLAHOMA CITY, OK - W SHERIDAN AVENUE (TRT: 19140)

**SITE ADDRESS:**  
900 W SHERIDAN AVENUE  
OKLAHOMA CITY, OK 73106

**SHEET TITLE**  
ELECTRICAL RISER DIAGRAM & CIRCUIT SCHEDULE

**SHEET NUMBER**  
E-1

