CONCRETE DESIGN

1. ALL CONCRETE SHALL CONFORM TO THE LATEST EDITION OF THE ACI.
2. CONCRETE SHALL BE NORMAL WEIGHT AND SHALL HAVE 2,500 PSI STRENGTH AT 28 DAYS.
3. REINFORCED CONCRETE IN THE FOUNDATION SHALL BE OF NATURAL AGGREGATE CONFORMING TO ASTM C-33.
4. TYPE I/II CEMENT TO MEET ASTM C150.
5. 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)

6. FABRICATE AND PLACE REINFORCEMENT IN ACCORDANCE WITH ACI PUBLICATION SP-66, ACI DETAILING MANUAL - LATEST EDITION.
7. PLACE CONCRETE IN COMPLIANCE WITH ACI 304. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED.
8. CONFORM TO ASTM C-94 FOR CONCRETE MIXING OPERATIONS.
9. 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"

10. 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.
11. ALL CONCRETE EXPOSED TO THE WEATHER TO BE AIR ENTRAINED AND SHALL CONFORM TO ASTM C-260.
12. PROVIDE CONTINUOUS REINFORCING BARS UNLESS WHERE SPLICES ARE SPECIFICALLY SHOWN ON THE DRAWINGS.
13. CALCIUM CHLORIDE ADMIXTURES OR ADMIXTURES CONTAINING CHLORIDE SALTS SHALL NOT BE ADDED TO THE CONCRETE.

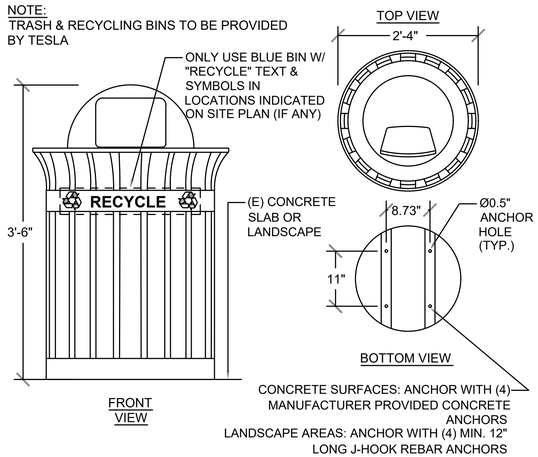
STRUCTURAL DESIGN CRITERIA:

DESIGN CODE:
- 2021 IBC

DESIGN CRITERIA:

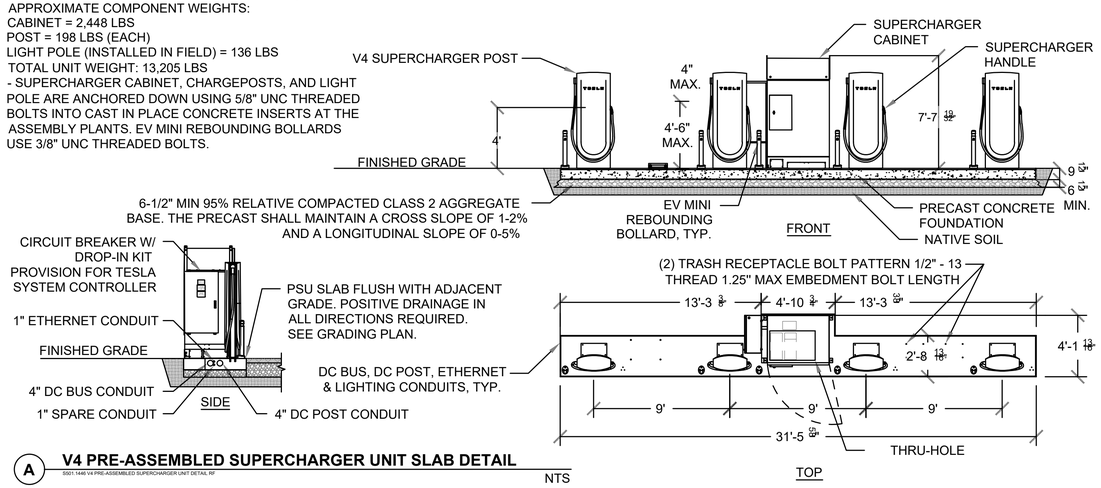
1. GEOTECHNICAL INFORMATION
   - ALLOWABLE BEARING PRESSURE = 1,500 PSF USED FOR EQUIPMENT FOUNDATION
2. SNOW LOAD
   - GROUND SNOW LOAD = 5 PSF
3. WIND DESIGN
   - DESIGN WIND SPEED = 100 MPH (ULTIMATE)
   - RISK CATEGORY = RC1
   - WIND EXPOSURE = B
4. SEISMIC DESIGN
   - RISK CATEGORY = 1
   - SEISMIC IMPORTANCE FACTOR = 1.0
   - SITE CLASS = D
   - Ss = 0.14 / S1 = 0.072
   - Sds = 12 / Sd1 = 0.1
   - SEISMIC DESIGN CATEGORY = B
   - BASIC SEISMIC-FORCE-RESISTING SYSTEM = NON-STRUCTURAL COMPONENT
   - R = 2.5 / a_p = 1.0

NOTE:
TRASH & RECYCLING BINS TO BE PROVIDED BY TESLA



D TRASH & RECYCLING BIN DETAIL
S501.1364 TRASH BIN DETAIL RA
NTS

SEE CUTSHEETS FOR ADDITIONAL INFORMATION.
APPROXIMATE COMPONENT WEIGHTS:
CABINET = 2,448 LBS
POST = 198 LBS (EACH)
LIGHT POLE (INSTALLED IN FIELD) = 136 LBS
TOTAL UNIT WEIGHT: 13,205 LBS
- SUPERCHARGER CABINET, CHARGEPOSTS, AND LIGHT POLE ARE ANCHORED DOWN USING 5/8" UNC THREADED BOLTS INTO CAST IN PLACE CONCRETE INSERTS AT THE ASSEMBLY PLANTS. EV MINI REBOUNDING BOLLARDS USE 3/8" UNC THREADED BOLTS.



A V4 PRE-ASSEMBLED SUPERCHARGER UNIT SLAB DETAIL
S501.1446 V4 PRE-ASSEMBLED SUPERCHARGER UNIT DETAIL RF
NTS

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PROJECT NO: 26011
DRAWN: DJH
CHECKED: WAT
DATE: APRIL 2026
LAST REV:

S1.01

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