

APPLICABLE CODES AND STANDARDS:

- A. 2018 INTERNATIONAL BUILDING CODE (INCLUDING ALL LOCAL ADOPTIONS)
- B. 2018 INTERNATIONAL RESIDENTIAL CODE (INCLUDING ALL LOCAL ADOPTIONS)
- C. CITY OF STEAMBOAT SPRINGS COMMUNITY DEVELOPMENT CODE
- D. "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" - ASCE 7-16
- E. "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" - ACI318
- F. "STEEL CONSTRUCTION MANUAL" - AISC FOURTEENTH EDITION
- G. "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - ANSI/AF&PA-NDS 2015

DESIGN LIVE LOADS:

- A. CT4000 NETWORK CHARGING STATION < 200 LBS.
- B. WIND: 115 MPH, EXPOSURE B
- C. SEISMIC DESIGN: CATEGORY B, SOIL TYPE D

FOUNDATION CRITERIA:

- A. DESIGN OF INDIVIDUAL FOOTINGS IS BASED ON AN ASSUMED MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2,500 PSF DEAD LOAD PLUS FULL LIVE LOAD.

REINFORCED CONCRETE:

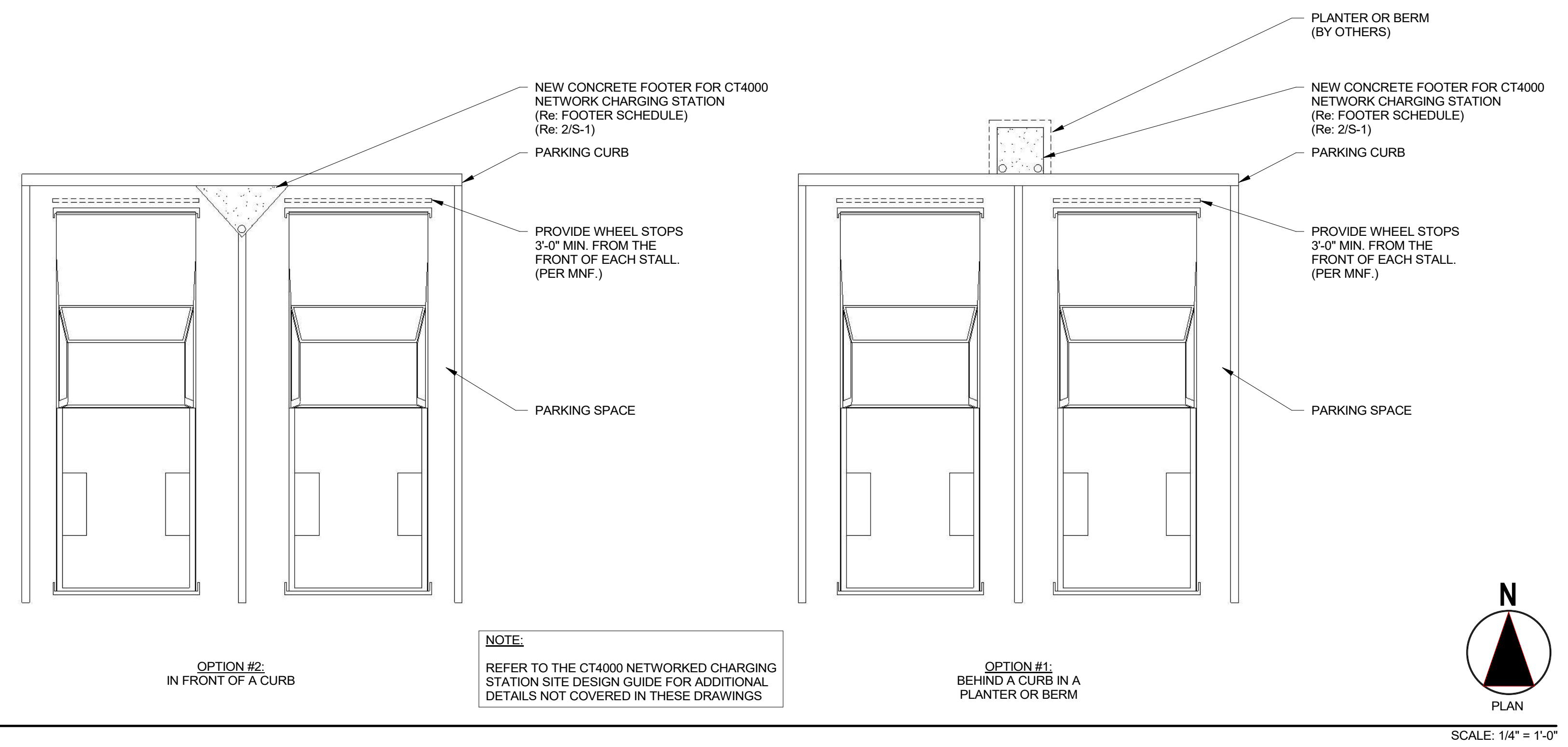
- A. STRUCTURAL CONCRETE SHALL BE TYPE 1, AND HAVE A MINIMUM 28 DAY STRENGTH OF 3,000 PSI, EXTERIOR CONCRETE SLABS SHALL BE TYPE 1 AND HAVE A MINIMUM 28 DAY STRENGTH OF 4,000 PSI. ALL CONCRETE SHALL HAVE A MIN 6% (+/- 1.5%) ENTRAINED AIR FOR DURABILITY AND A 4" (+/- 1") SLUMP. THE MAXIMUM AGGREGATE SIZE SHALL BE 3/4". CONCRETE SHALL NOT BE PLACED ON FROZEN GROUND AND SHALL BE PROTECTED FROM FREEZING FOR A MINIMUM OF 7 DAYS. DURING COLD WEATHER THE METHODS DAMAGE.
- B. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF AC1318 AND 301, LATEST EDITION.
- C. ALL EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER.
- D. REINFORCING BARS SHALL CONFORM TO ASTM SPEC. A615-79 AND SHALL BE GRADE 60.
- E. AT SPLICES, LAP BARS A MINIMUM OF 38 DIAMETERS. AT CORNERS AND INTERSECTIONS, MAKE HORIZONTAL CONTINUOUS OR PROVIDE MATCHING CORNER BARS. AROUND OPENINGS IN WALLS AND SLABS, PROVIDE (2) #5 BARS EXTENDING A MINIMUM OF 2 FEET BEYOND THE EDGE OF THE OPENING. CONTINUOUS TOP BARS IN WALLS SHALL BE SPLICED AT MID-SPAN. CONTINUOUS BOTTOM BARS IN WALLS SHALL BE SPLICED AT SUPPORTS.
- F. CONCRETE COVER SHALL CONFORM TO ACI 318-08, 7.7. UNLESS A GREATER COVER IS REQUIRED, CONCRETE CAST AGAINST EARTH SHALL HAVE 3IN. MIN. COVER, CONCRETE EXPOSED TO EARTH OR WEATHER SHALL HAVE 2IN. MIN. COVER FOR NO. 6 BARS & GREATER, & 1 1/2 IN. MIN. COVER FOR NO. 5 BARS & SMALLER. CONCRETE NOT EXPOSED TO WEATHER SHALL HAVE 3/4" MIN. COVER FOR NO. 11 BARS & SMALLER.
- G. WELDED WIRE FABRIC SHALL CONFORM TO ASTM 185 AND SHALL BE LAPPED ONE FULL MESH AT SPLICES AND TIED TOGETHER.
- H. CONCRETE SHALL BE ADEQUATELY CONSOLIDATED/VIBRATED DURING PLACEMENT TO ENSURE IT IS THOROUGHLY PLACED AROUND ALL REINFORCING STEEL AND EMBEDDED FIXTURES.
- I. UNLESS NOTED OTHERWISE, SLABS, FOOTINGS AND WALLS SHALL NOT HAVE ANY HORIZONTAL 'COLD JOINTS'. ALL CONSTRUCTION JOINTS SHALL BE DETAILED OR REVIEWED BY THE ENGINEER OF RECORD.
- J. INTERIOR CONCRETE SLAB FINISH SHALL BE STEEL TROWEL FINISHED AND EXTERIOR CONCRETE SLABS SHALL BE BROOM FINISHED.

STRUCTURAL STEEL:

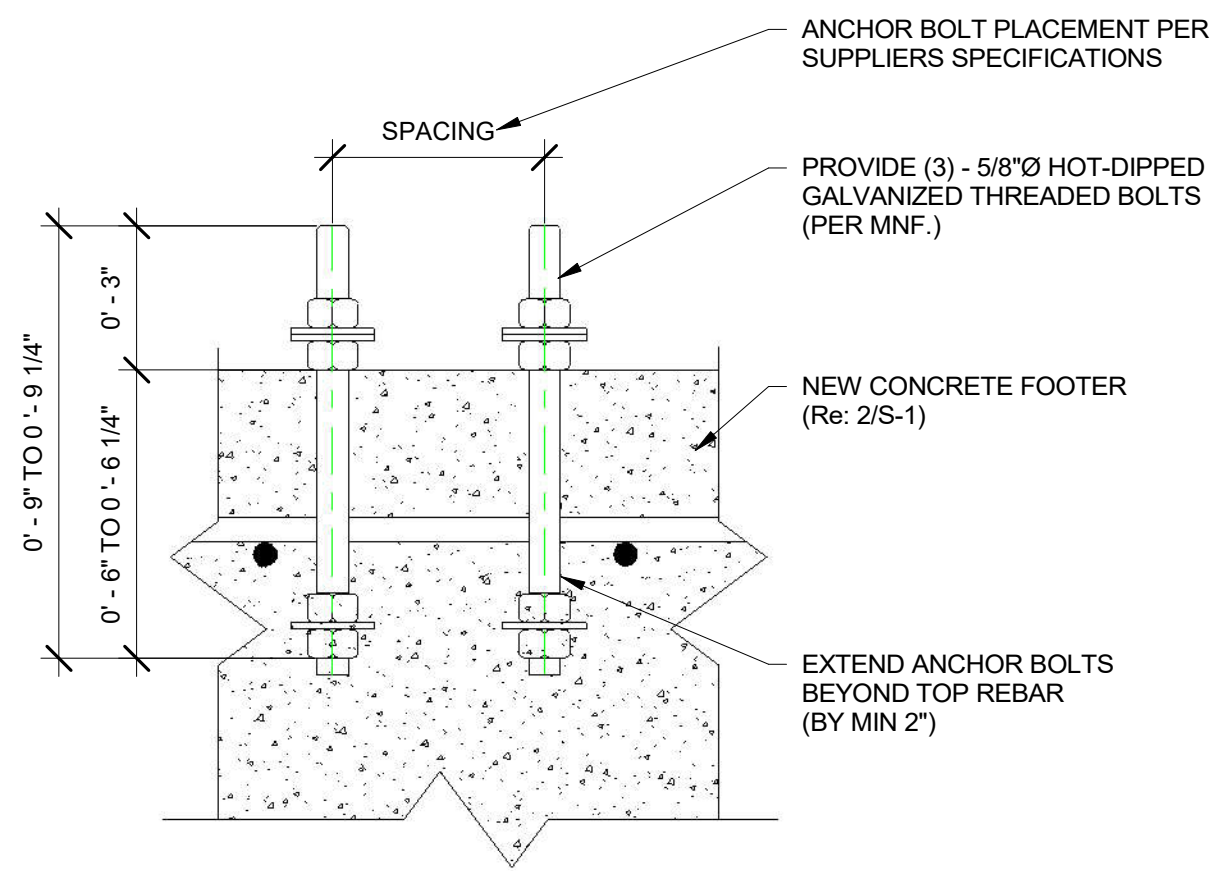
- A. STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE LATEST VERSION OF THE AISC MANUAL OF STEEL CONSTRUCTION.
- B. ALL BOLTS, INCLUDING ANCHOR BOLTS, SHALL CONFORM TO ASTM SPEC. A307.
- C. STRUCTURAL STEEL ROLLED SHAPES, INCLUDING PLATES AND ANGLES, SHALL BE ASTM SPEC. A570, GR. 50KSI.
- D. EXPANSION BOLTS CALLED FOR ON THE DRAWINGS SHALL BE SIMPSON "WEG-ALL", "STRONG-BOLT 2" OR APPROVED WEDGE TYPE ANCHORS WITH THE FOLLOWING MINIMUM EMBEDMENTS: 3/4" DIAMETER BOLTS - 3 3/8", 5/8" DIAMETER BOLTS - 2 3/4", 1/2" DIAMETER BOLTS - 2 1/4".
- E. ALL EPOXY SHALL BE SIMPSON "SET-XP" AND SHALL BE INSTALLED PER THE "ANCHORING AND FASTENING SYSTEMS FOR CONCRETE AND MASONRY" SIMPSON CATALOG #C-SAS-2012 BY A QUALIFIED PERSONNEL.
- F. FIELD WELDED CONNECTIONS MUST BE INSPECTED BY THE ENGINEER OF RECORD.
- G. FILLET WELDS INDICATED ON THE PLANS SHALL BE OF E70XX ELECTRODES AND SHALL BE THE MINIMUM SIZE SPECIFIED IN THE AISC MANUAL OF STEEL CONSTRUCTION, TABLE J2.4.
- H. ALL WELDS SHALL BE PERFORMED BY A CERTIFIED WELDER.

FOOTER SCHEDULE			
MARK	SIZE	REINFORCING	REFERENCE
F1	2'-0" X 2'-0" X 2'-0"	(3) - #4 BARS TOP/BOTT, EACH WAY	2/S-1
F2	4'-0" X 3'-0" X 3'-0" X 2'-0"	(3) - #4 BARS TOP/BOTT, EACH WAY	2/S-1

NOTE: FOR FOOTER F2 - ADJUST REBAR LENGTHS TO FIT FOOTER SHAPE. SHAPES/VOLUMES ARE BASED ON MANUFACTURERS' RECOMMENDATIONS.

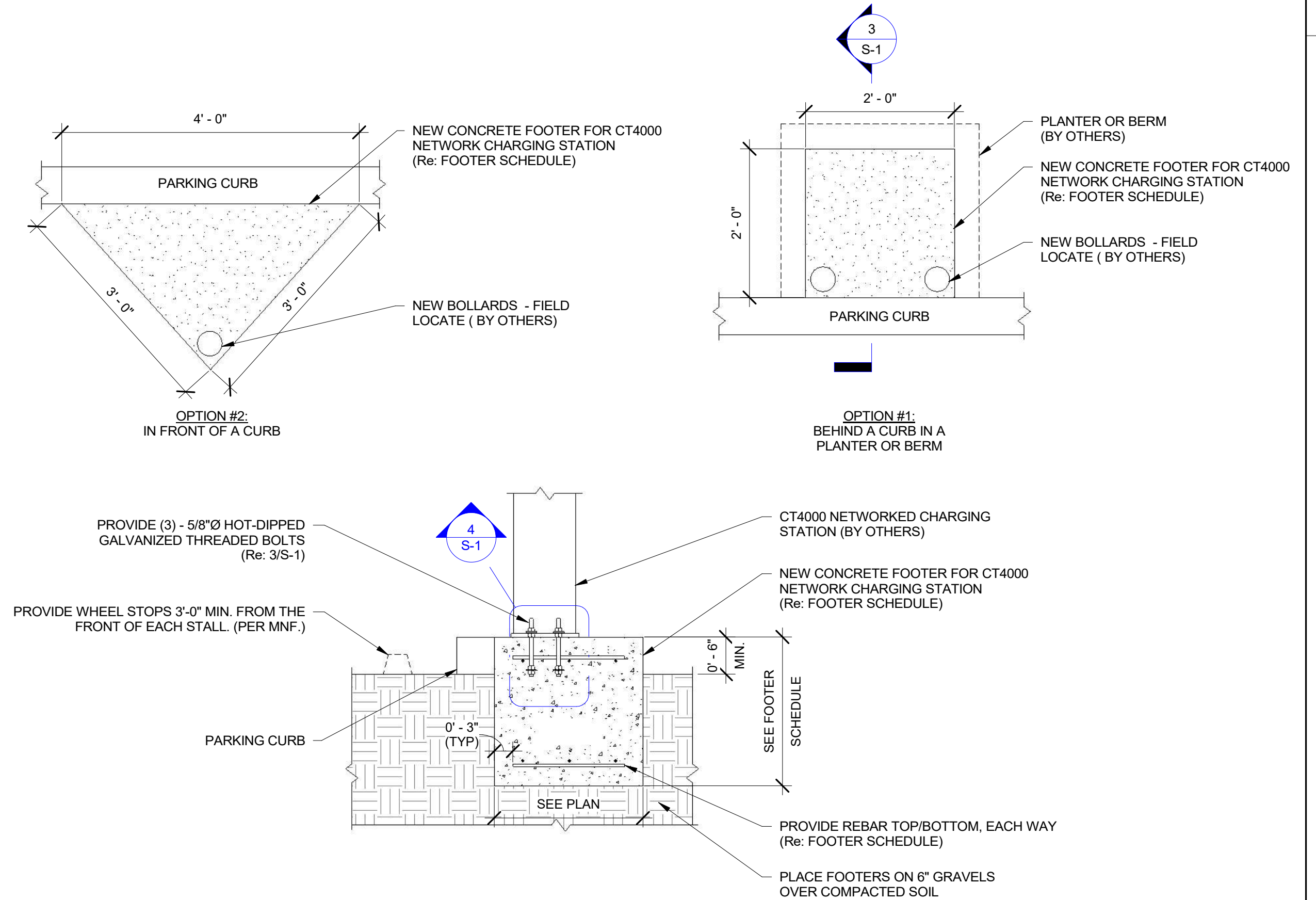


1 FOUNDATION PLAN



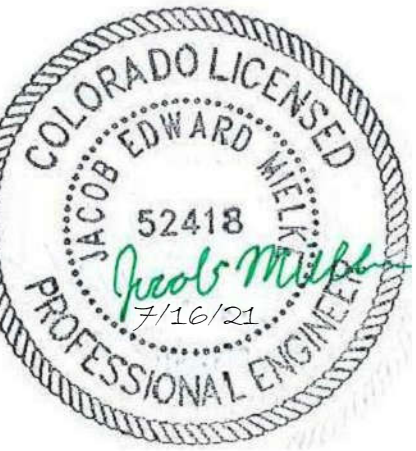
3 ANCHOR BOLT SECTION

SCALE: 3\"/>



2 FOUNDATION SECTIONS

SCALE: 3/4\"/>



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CHARGING STATIONS

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NEW FOOTER DESIGN

#	Date	Description
	07/16/21	PERMIT SET

MVS

Designed By

JEM

Checked By

21092

Project Number

GENERAL NOTES, PLANS, SECTIONS

Sheet Title

S-1

Sheet Number

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