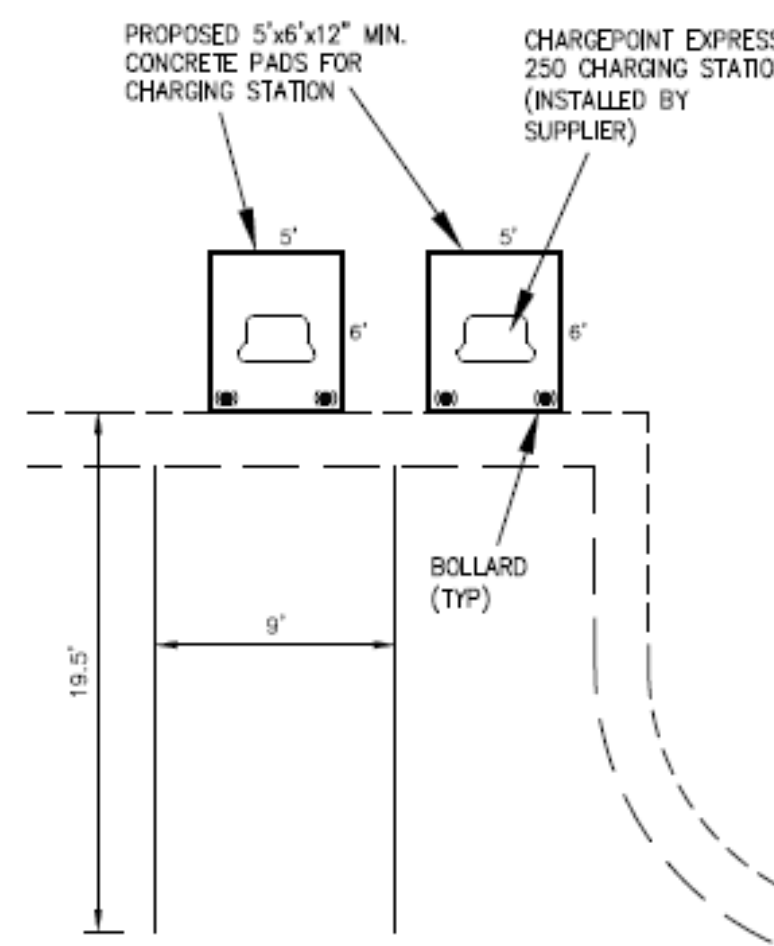
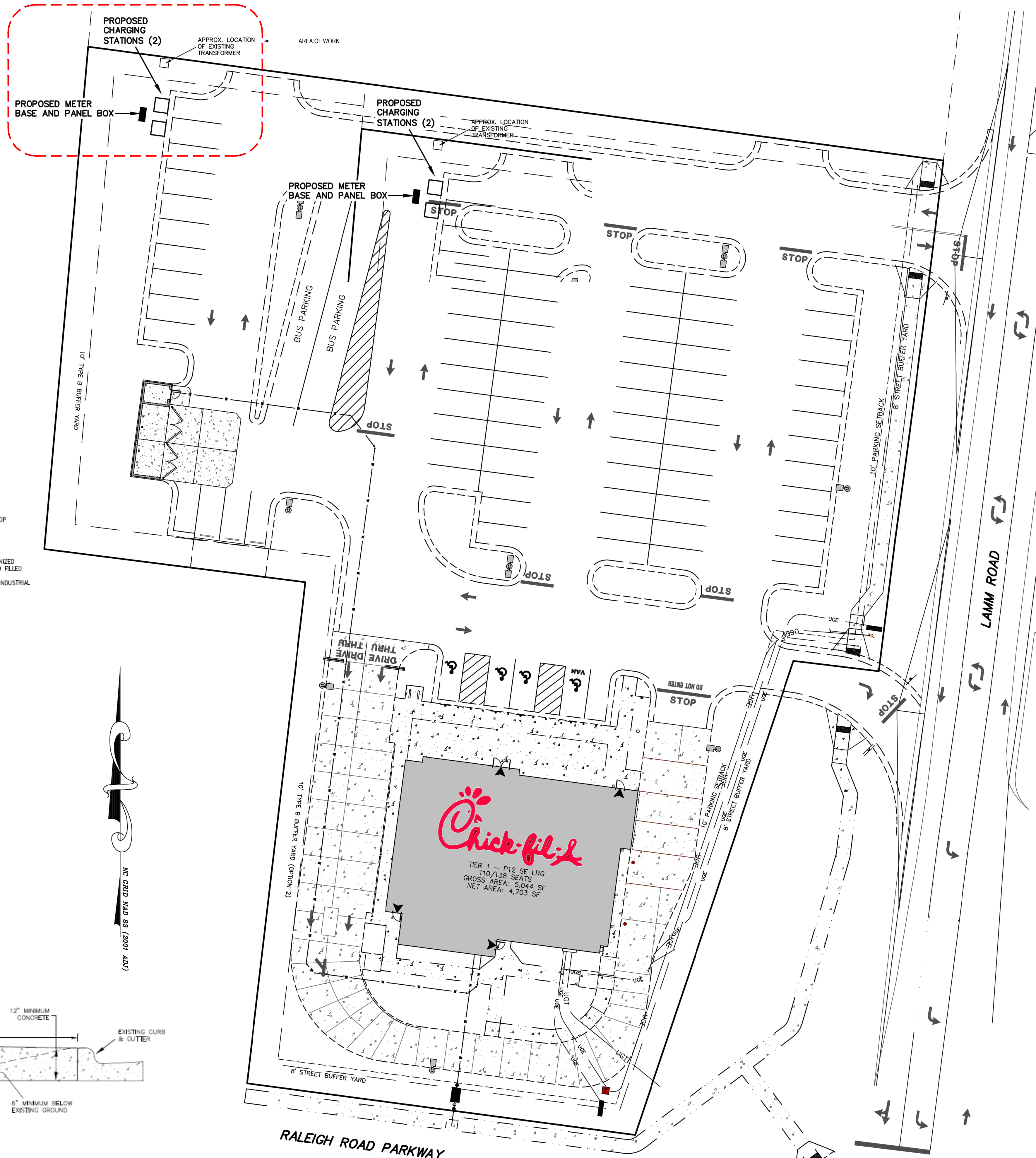
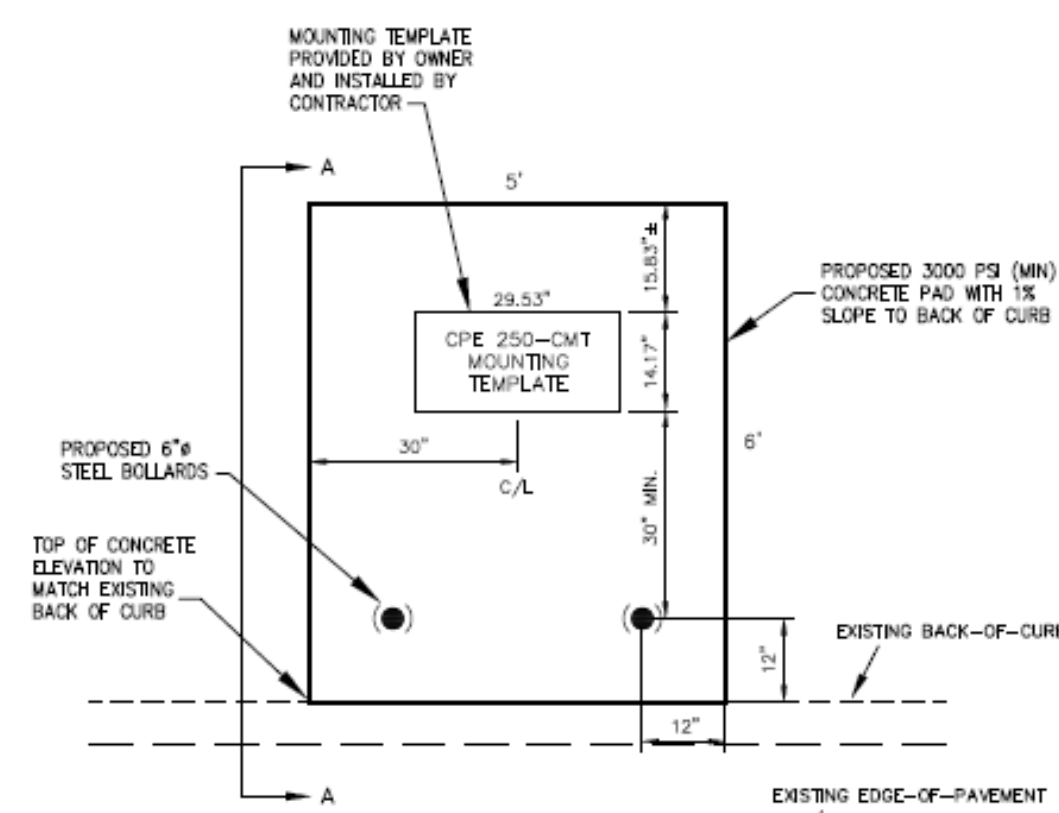


**GENERAL ELECTRICAL NOTES:**

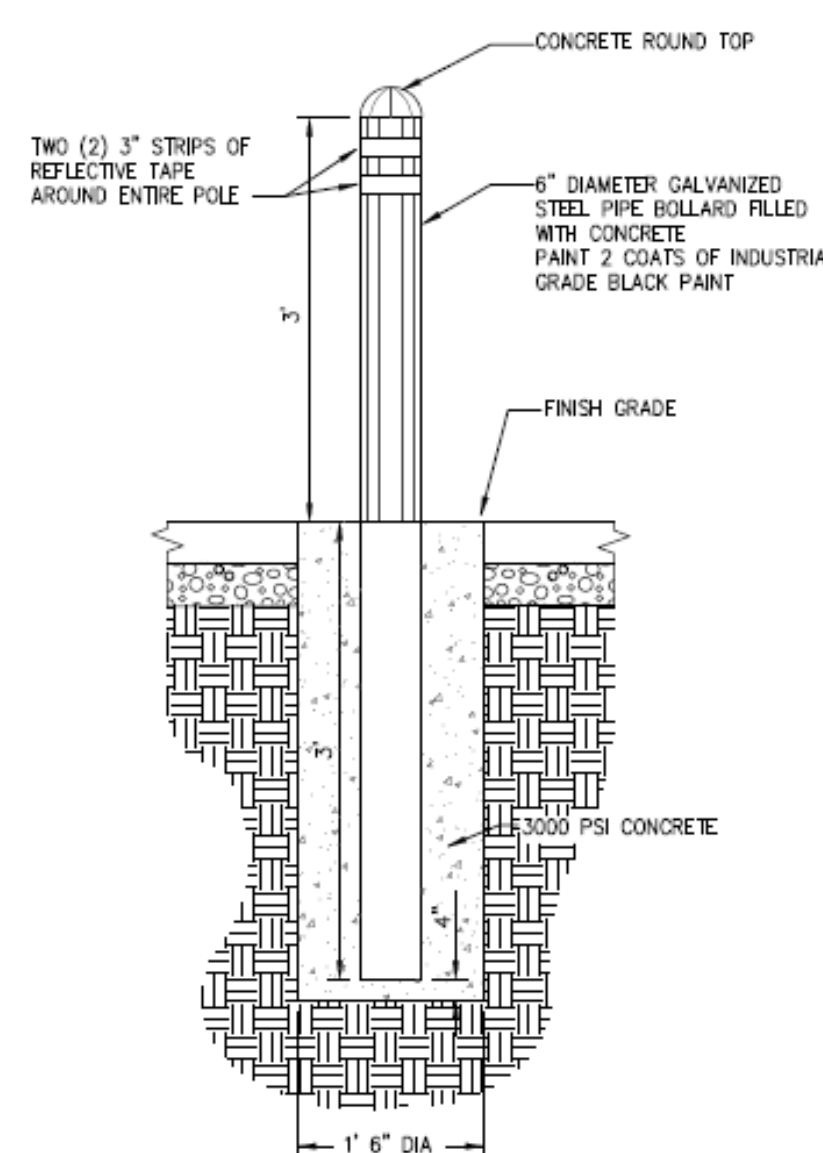
1. WORK SHALL COMPLY WITH NATIONAL ELECTRICAL CODE (NEC) STATE BUILDING CODE, AND ALL REQUIREMENTS OF THE LOCAL INSPECTOR. ALL WORK SHALL BE BY LICENSED ELECTRICAL CONTRACTOR.
2. ALL BRANCH CIRCUITS SHALL BE E.M.T. OR RIGID CONDUIT AS PERMITTED OR REQUIRED. RIGID CONDUIT SHALL BE USED FOR CIRCUITS UNDER SLAB ON GRADE, OR WHERE APPROVED SCHEDULE 80 PVC MAY BE USED.
3. ALL CONDUCTORS SHALL BE COPPER.
4. ALL EQUIPMENT LOADS SHALL BE VERIFIED BEFORE EQUIPMENT AND/OR CIRCUIT INSTALLATION.
5. PROVIDE GREEN GROUNDING CONDUCTOR CONTINUOUS FROM DEVICE TO PANEL GROUND BAR. PROVIDE DRIVEN GROUND ROD FOR MAIN SERVICE AND ALL POINTS PER N.E.C. REQUIREMENTS.
6. EMT FITTINGS SHALL BE HEXAGONAL ALL STEEL, COMPRESSION TYPE.
7. ALL CIRCUITS SHALL BE TESTED WITH 500 VOLT TESTER PRIOR TO ENERGIZING.
8. ELECTRICAL CONTRACTOR SHALL CONNECT TO TERMINALS OF EQUIPMENT SUPPLIED BY OWNER.



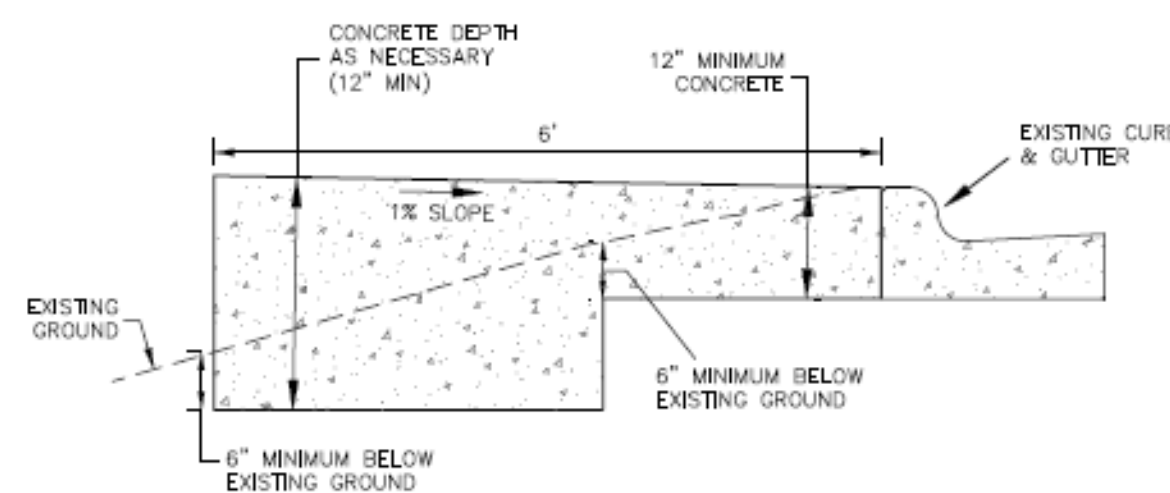
CONCRETE PAD LOCATIONS  
NOT TO SCALE



CONCRETE MOUNTING PAD  
NOT TO SCALE



TYPICAL BOLLARD DETAIL  
NO SCALE



SECTION A-A  
NO SCALE

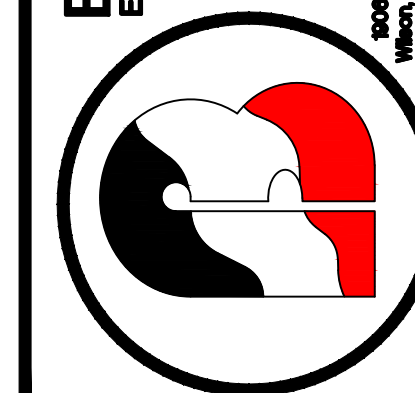
CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:

- NECESSARY PERMITS
- EXCAVATION, GRADING, TRENCHING & BACKFILL
- PROVIDE & INSTALL BOLLARDS
- ASSEMBLE AND INSTALL CPE 250-CMT MOUNTING TEMPLATE PER SUPPLIER INSTRUCTIONS
  - PROVIDE & INSTALL ELECTRICAL PANELS, METER BASE, CONDUIT & WIRING
- FORM, PROVIDE, PLACE AND FINISH CONCRETE
- ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH APPLICABLE LOCAL AND STATE CODES AND PER CHARGEPOINT SPECIFICATIONS
- SEED AND MULCH DISTURBED GRASS AREAS
- REMOVE & REPLACE LANDSCAPING AS NECESSARY

Owner:

The City of Wilson  
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Rev: Date: Description:

Title Sheet:	ELECTRICAL PLAN
Project:	Chick-Fil-A Charging Station Addition 5100 Raleigh Road Pkwy Wilson, NC

Drawn by: JLT  
Issue Date: 05-06-21  
Project Number: 21-505  
Sheet:

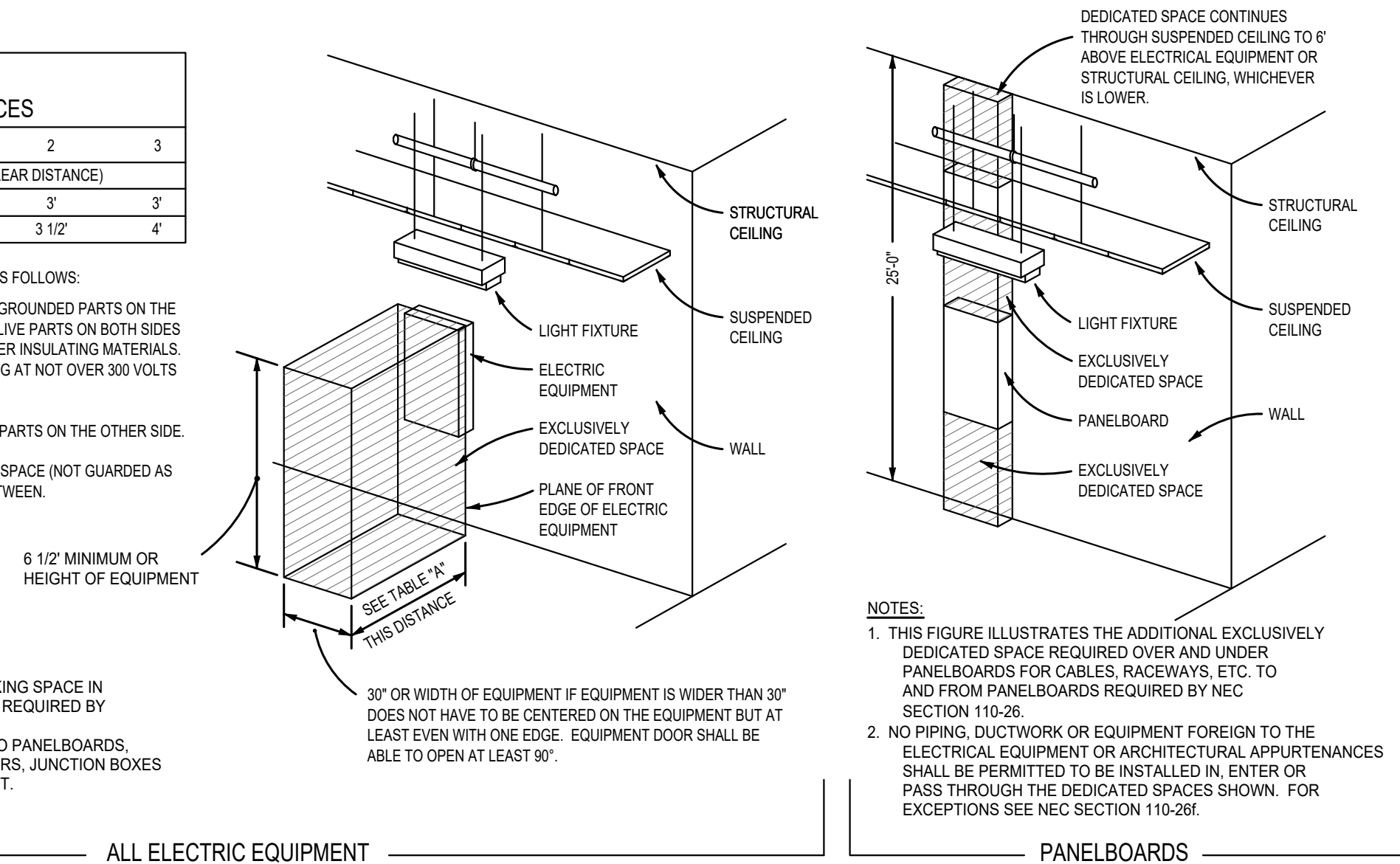
**E-1**

**ELECTRICAL - POWER PLAN**  
SCALE: 1" = 20'-0"



VOLTAGE TO GROUND (NOMINAL)	CONDITION: 1	2	3
0-150	3'	3'	3'
151-600	3'	3 1/2'	4'

- WHERE THE "CONDITIONS" ARE AS FOLLOWS:
- EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300 VOLTS SHALL NOT BE CONSIDERED LIVE PARTS.
  - EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
  - EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.



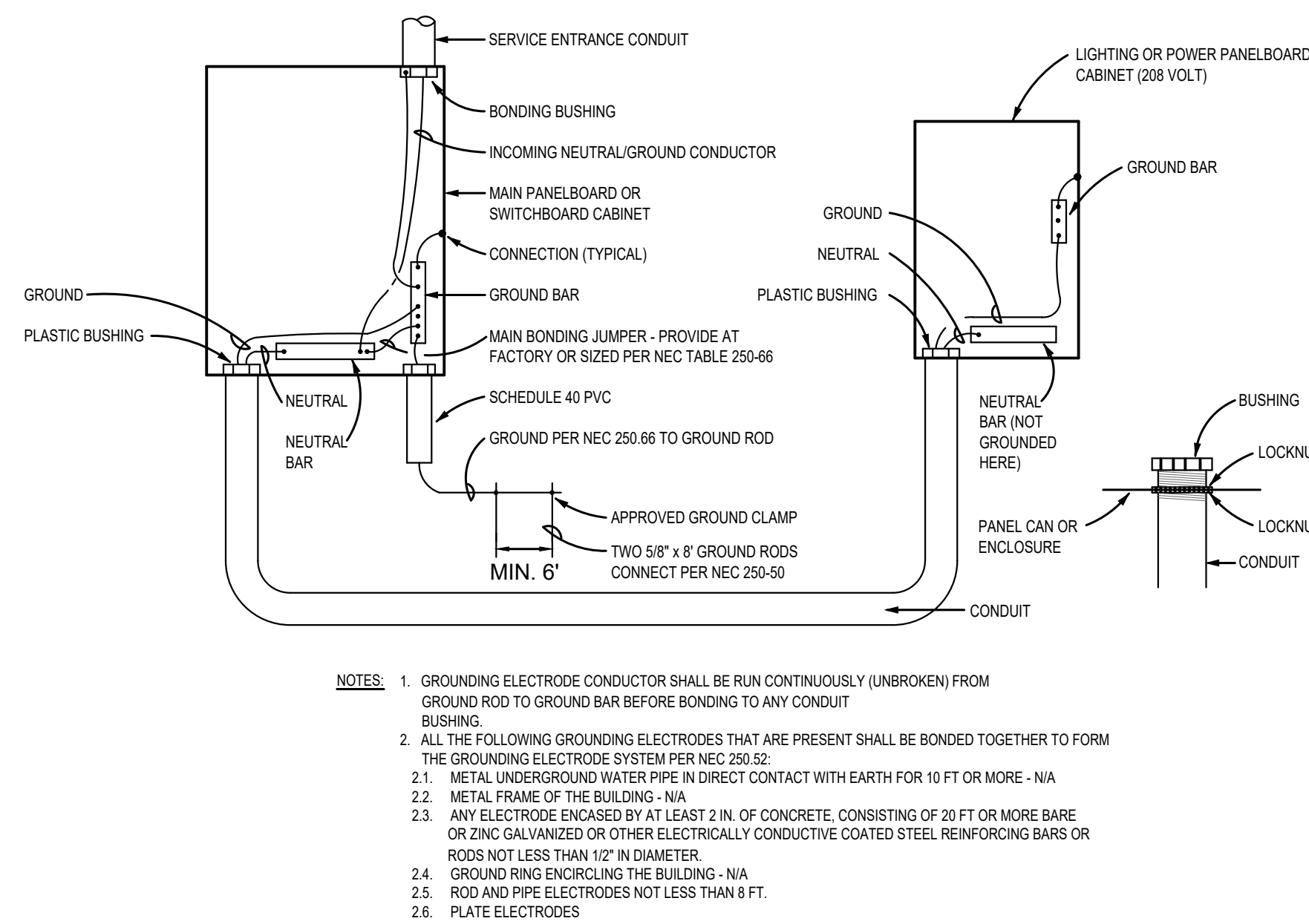
### DEDICATED WORKING SPACE REQUIREMENTS NO SCALE

PANEL: CS MTD: SURFACE TYPE: "SQ-D"  
VOLTS: 277/480 PHASE: 3 WIRE: 4  
225 AMP MAINS WITH 225 AMP MB S.E. RATED NEMA 3R

L1	L2	L3	CIRCUIT	POLES	TRIP	ASSIGNMENT	PHASE	ASSIGNMENT	TRIP	POLES	CIRCUIT	L1	L2	L3
80			1	3	100	CPE250 CHARGER (LOCKABLE)		CPE250 CHARGER (LOCKABLE)	100	3	2	80		
	80		3								4		80	
		80	5								6			80
X			7			SHUNT TRIP		SHUNT TRIP			8	X		
	X		9			SPACE		SPACE			10		X	
		X	11			SPACE		SPACE			12			X
X			13			SPACE		SPACE			14	X		
	X		15			SPACE		SPACE			16		X	
		X	17			SPACE		SPACE			18			X
80	80	80										80	80	80

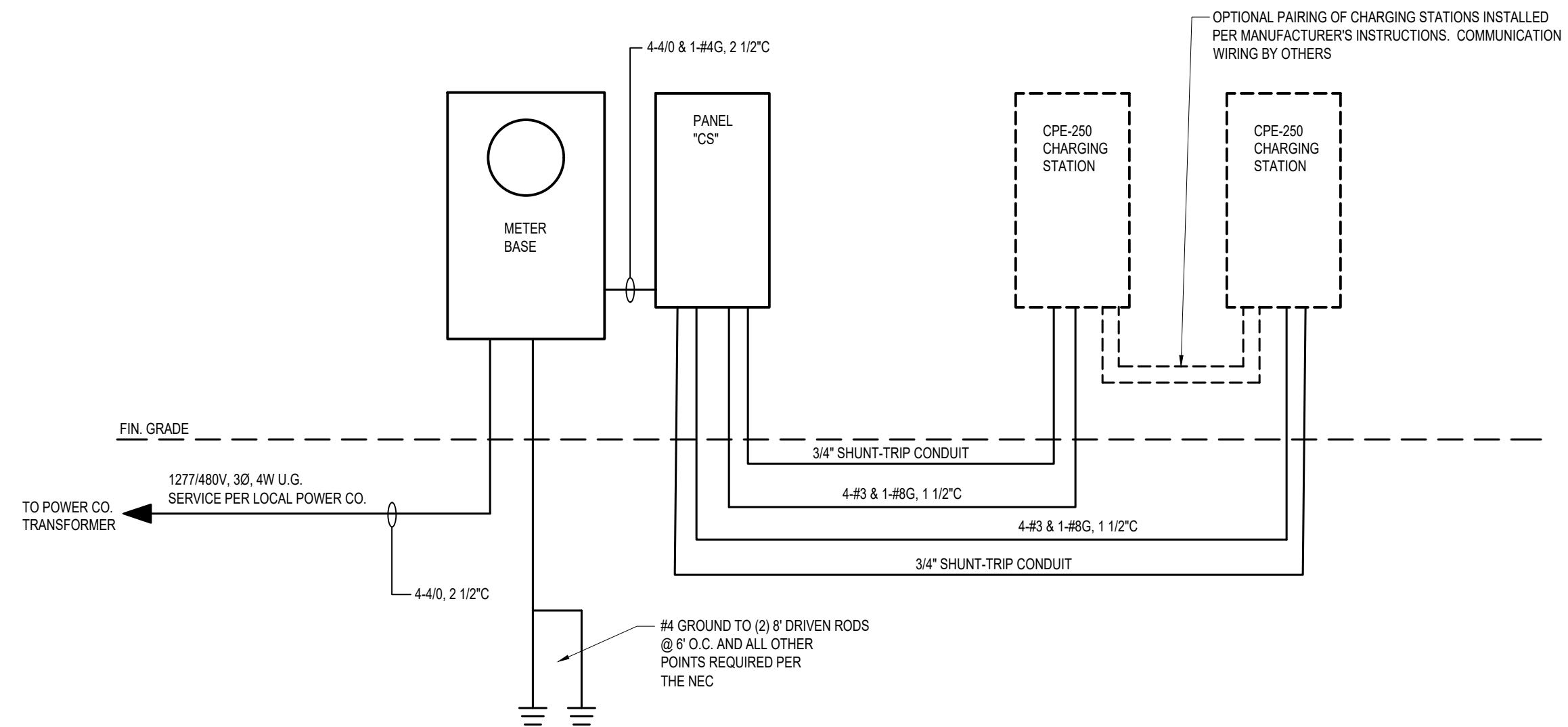
L1-160  
L2-160  
L3-160  
160 AMPS TOTAL CONNECTED LOAD

CHARGERS	13296 KW
<b>TOTAL</b>	<b>13296 KW</b>
<b>● 480V 3φ =</b>	<b>160 AMPS</b>



### TYPICAL BONDING & GROUNDING DIAGRAM NO SCALE

- NOTES:
- GROUNDING ELECTRODE CONDUCTOR SHALL BE RUN CONTINUOUSLY (UNBROKEN) FROM GROUND ROD TO GROUND BAR BEFORE BONDING TO ANY CONDUIT BUSHING.
  - ALL THE FOLLOWING GROUNDING ELECTRODES THAT ARE PRESENT SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM PER NEC 250.52:
    - METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH EARTH FOR 10 FT OR MORE - N/A
    - METAL FRAME OF THE BUILDING - N/A
    - ANY ELECTRODE ENCASED BY AT LEAST 2 IN. OF CONCRETE, CONSISTING OF 20 FT OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS NOT LESS THAN 1/2" IN DIAMETER.
    - GROUND RING ENCRING THE BUILDING - N/A
    - ROD AND PIPE ELECTRODES NOT LESS THAN 8 FT.
    - PLATE ELECTRODES



### ELECTRICAL RISER DIAGRAM NO SCALE

- NOTES:
- AG RATINGS SHALL BE VERIFIED AND PROPER PLAQUES APPLIED PRIOR TO ENERGIZING.
  - ELECTRICAL CONTRACTOR SHALL LABEL UTILITY AVAILABLE FAULT CURRENT AND DATE PER NEC.
  - PANELS, BREAKERS & FUSES SHALL BE RATED FOR THE AVAILABLE FAULT CURRENT AT TRANSFORMER. VERIFY PROPOSED ELECTRICAL SERVICE REQUIREMENTS WITH LOCAL POWER COMPANY PRIOR TO ORDERING ELECTRICAL GEAR.

SPECIFIC EQUIPMENT NOTE:  
VERIFY EXACT ELECTRICAL REQUIREMENTS OF CHARGERS WITH EQUIPMENT SUPPLIED AND EQUIPMENT MANUFACTURER PRIOR TO CONSTRUCTION. INSTALLATION SHALL COMPLY WITH ARTICLE 625, ELECTRIC VEHICLE CHARGING AND SUPPLY EQUIPMENT SYSTEMS, NEC

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20106  
ENGINEER  
ROBERT S. BARTLETT

Rev: Description: Date:

Title Sheet: ELECTRICAL RISER & PANEL SCHEDULE  
Project: Chick-Fil-A Charging Station Addition  
5100 Raleigh Road Pkwy, Wilson, NC

Drawn by: JLT  
Issue Date: 05-06-21  
Project Number: 21-505  
Sheet: E-2