

- NOTES**
- METER PLACEMENT AND FINAL SWITCHGEAR DESIGN TO BE COORDINATED ACCORDING TO UTILITY REQUIREMENTS. CONTRACTOR TO PROVIDE METER SOCKET (METER ENCLOSURE) IF NOT PROVIDED BY UTILITY, PER LISTED ON LOCAL UTILITY'S APPROVED METER ENCLOSURE LIST.
 - PROVIDE 80% RATED FOR THE MAIN CIRCUIT BREAKER.
 - PROVIDE GROUND FAULT PROTECTION (GFP) FOR EQUIPMENT PER NEC 230.95
 - SEE UTILITY POWER MANUAL FOR ADDITIONAL INFORMATION.
 - REFER TO DRAWING E-6 FOR LOAD SUMMARY AND PANEL/SWBD SCHEDULE.
 - PROVIDE A READILY ACCESSIBLE CIRCUIT BREAKER THAT CAN BE LOCKABLE IN THE OPEN POSITION PER NEC 110.25 (LOCKABLE DISCONNECTING MEANS) AND ARTICLE 625 DISCONNECTING MEANS FOR ALL BREAKERS SERVING EV CHARGERS AND USED AS THE DISCONNECTING MEANS.
 - DISPENSER ARE PROVIDED WITH AN INTERNAL MANUFACTURER FURNISHED DISCONNECT FOR SERVING.

SINGLE LINE DIAGRAM
SCALE: N.T.S.

CONDUIT AND WIRING SCHEDULE - EV CHARGING STATIONS			
	FROM	TO	CONFIGURATION
①	PROPOSED PMT OR POWER POLE (BY OTHERS)	PROPOSED SWITCHBOARD	3 SETS OF {(4) 600 MCM CU (THWN-2) IN 4" SCH 40 PVC CONDUIT}
②	PROPOSED SWITCHBOARD	350 KW DELTA - PROPOSED POWER CABINET	2 SETS OF {(3) 350 KCMIL CU (THWN-2) + (1) #1 AWG CU (THWN-2) EGC IN (1) 4" SCH 40 PVC CONDUIT}
③	350 KW DELTA - PROPOSED POWER CABINET	PROPOSED DC DISPENSER (POST) DC POWER	4 - 3" SCH 40 PVC CONDUIT. EACH CONDUIT W/ {(2) 350 MCM CU (XHHW-2, MIN 90° TEMP RATING) 1KV + (1) #2 AWG CU (XHHW-2) EGC. PROVIDE (4) 350 MCM FOR EACH POSITIVE AND NEGATIVE TERMINAL, FOR A TOTAL OF 8 CONDUCTORS.
④	350 KW DELTA - PROPOSED POWER CABINET	PROPOSED DC DISPENSER (POST) COMMUNICATION	(1) MULTIMODE FIBER (ST/ST CONN) + (1) 2 CONDUCTOR #18 AWG (TW/SH PAIR) + (1) CAT 6 CABLE IN (1) 1-1/4" SCH 40 CONDUIT NOTE: ALL COMMUNICATIONS WIRING TO BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. CONTRACTOR TO PROVIDE PULL STRING AND (1) 1-1/4" C.
⑤	PROPOSED PANELBOARD 120/208V SECTION	PROPOSED DC DISPENSER (POST) AUXILIARY POWER	(1) #10 AWG CU (THWN-2) + (1) #10 AWG CU (THWN-2) NEUT + (1) #10 AWG CU (THWN-2) EGC IN (1) 3/4" SCH 40 PVC CONDUIT
⑥	PROPOSED SWITCHBOARD	PROPOSED TRANSFORMER / PANEL 480V - 120/208V	(3) #8 AWG CU (THWN-2) + (1) #10 AWG CU (THWN-2) EGC IN (1) 1" GRC CONDUIT
⑦	NOT USED		
⑧	PROPOSED SWITCHBOARD	100 KW DELTA PROPOSED DISPENSER	(4) 3/0 KCMIL CU (THWN-2) + (1) #6 AWG CU (THWN-2) EGC IN (1) 3" SCH 40 PVC CONDUIT

PENDING UTILITY DESIGN. ENGINEER OF RECORD TO CONFIRM UTILITY FAULT CURRENT AND MEANS OF MITIGATION



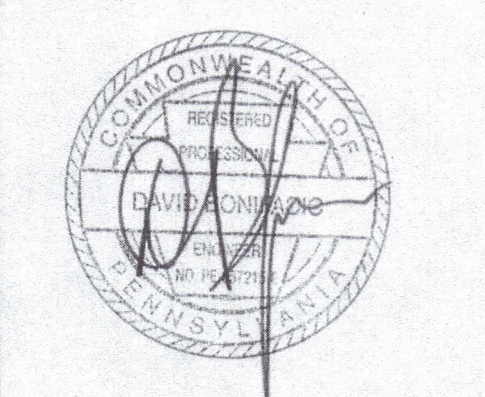
EVgo SERVICES, LLC
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LOS ANGELES, CA 90064



Job Name:
**WAWA #0157
NORTH WALES**

583 DEKALB PIKE -EV
NORTH WALES, PA 19454

SHEET DESCRIPTION:
**ELECTRICAL
SINGLE LINE DIAGRAM**



Project #: P17773
File:
Drawn by: KC
Date(s): 07/25/2022
2022.07.25 - DD100 PRELIMINARY DESIGN
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