Attachment 03

GENERAL NOTES

1.SCOPE: PROVIDE AND INSTALL ALL ELECTRICAL SYSTEMS AS INDICATED AND REQUIRED, COMPLETE AND OPERABLE.

2.FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, SERVICES AND SKILLED SUPERVISION NECESSARY FOR THE CONSTRUCTION, RIGGING, ERECTION, INSTALLATION, CONNECTION, TESTING AND ADJUSTMENT OF ALL CIRCUITS AND ELECTRICAL EQUIPMENT SPECIFIED HEREIN OR SHOWN, OR NOTED ON THE DRAWINGS. DELIVER MATERIALS AND EQUIPMENT TO SITE PROTECTED, COMPLETE IN ALL RESPECTS, READY FOR INSTALLATION.

3.APPLICABLE CODES, REGULATIONS & PRACTICES: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING CODES, REGULATIONS & PUBLICATIONS:

A.VIRGINIA BUILDING CODE 2021
B.VIRGINIA MECHANICAL CODE 2021
C.VIRGINIA PLUMBING CODE 2021
D.VIRGINIA ENERGY CODE 2021
E.NFPA 70, NATIOANL ELECTRICAL CODE 2020
F.NFPA 101,LIFE SAFETY CODE

4.DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE INTENT OF THE PLANS AND SPECIFICATIONS. MANUFACTURER AND CATALOG NUMBERS ARE USED HERE STRICTLY AS REFERENCE. THEY REPRESENT THE TYPE, SIZE, CONSTRUCTION, PERFORMANCE AND LEVEL OF QUALITY DESIRED. EQUIPMENT AND APPURTENANCES FROM OTHER MANUFACTURERS THAT MATCH OR SURPASS THE CHARACTERISTICS OF THOSE REFERENCED AND THAT WILL FIT IN THE ALLOCATED SPACE WILL BE ACCEPTABLE, SUBJECT TO APPROVAL BY THE OWNER'S REPRESENTATIVE.

5.SITE VISIT: THE CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS, EQUIPMENT, WIRING, CONSTRUCTION, FINISHES, AND STRUCTURE PRIOR TO START OF WORK. WHEN ANY DISCREPANCY OR CONFLICT IS DETECTED AT THE PROJECT SITE (SPECIALLY REGARDING THE PANEL CIRCUITRY), THE OWNER SHALL BE NOTIFIED IMMEDIATELY PRIOR TO COMMENCING WORK.

6.CONSULT PLANS AND DETAILS FOR TYPES OF CONSTRUCTION, HEAD ROOM, FINISHES, FURRED CEILINGS, EXACT LOCATION OF FIXTURES, EQUIPMENT AND EXACT DIMENSIONS. OWNER'S REPRESENTATIVE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THOSE DRAWINGS.

7.COORDINATE MOUNTING HEIGHT OF DEVICES ON FINISHED WALLS TO PROVIDE A NEAT AND SYMMETRICAL APPEARANCE. REFER TO ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS FOR HEIGHTS AND LOCATIONS OF RACEWAYS, DEVICES, AND OTHER ELECTRICAL DEVICES.

8.ALL DEMOLITION, CUTTING AND PATCHING, AND INSTALLATION OF MATERIALS, CONDUITS, WIRING, AND DEVICES SHALL BE DONE IN A PROFESSIONAL MANNER IN ACCORDANCE WITH NECA 1, SHALL CONFORM TO APPLICABLE CODES, REGULATIONS AND MANUFACTURER'S RECOMMENDATIONS, AND SHALL BE COMPLETED IN A MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE. PROVIDE PATCHING SURFACE TO MATCH ADJACENT SURFACE, AND ALSO PAINT COLOR TO MATCH ADJACENT FINISHING COLOR.

9.MATERIALS AND SUBSTITUTIONS: THE CONTRACTOR SHALL SUBMIT A LIST OF ALL MATERIALS AND FIXTURES TO THE OWNER'S REPRESENTATIVE FOR APPROVAL. NO SUBSTITUTION WILL BE ALLOWED WITHOUT PERMISSION IN WRITING.

10.MOUNTING HEIGHTS, UNLESS OTHERWISE NOTED, ARE TO CENTERLINE OF EQUIPMENT.

11.CONDUITS: ALL CONDUITS SHALL BE NEW AND SHALL BE CUT TO EXACT LENGTHS TO SUIT THE FIELD CONDITIONS. BURRS SHALL BE REMOVED. PROVIDE BUSHINGS WHERE CONDUIT ENDS ARE EXPOSED TO CABLING.

12.CONDUIT SYSTEMS: CONDUIT SHALL BE EMT (ELECTRIC METALLIC TUBING). ALUMINUM CONDUIT SHALL NOT BE PERMITTED. MINIMUM SIZE OF CONDUIT IS 3/4". RUN CONDUIT PARALLEL TO WALLS AND CEILING. TYPE MC CABLE, 600 VOLT, MAY BE INSTALLED WHERE PERMITTED BY NATIONAL ELECTRICAL CODE (NEC) AND WHERE PROVIDED WITH GROUND WIRE. RUN ALL CONDUIT PARALLEL WITH BUILDING LINES.

13.OUTLET BOXES: FOUR INCH SQUARE FOR SWITCHES AND RECEPTACLES. AT LOCATIONS WHERE BOXES ARE RECESSED IN DRYWALL, PROVIDE DEVICES WITH RINGS AND PLATES APPROPRIATE TO THE TYPE OF CONSTRUCTION. EXPOSED BOXES LESS THAN 6 FT AFF SHALL NOT HAVE KNOCKOUTS ACCESSIBLE TO OCCUPANTS. OUTLET BOXES IN FIRE RATED WALLS SHALL BE SEALED COMPLETELY WITH FIRE PADDING AS PER UL, NEC AND 3M STANDARDS

14.PANELBOARDS: MINIMUM SHORT CIRCUIT RATING SHALL BE OF 10,000 RMS SYMMETRICAL AMPERES MINIMUM INTERRUPTING CAPACITY. PROVIDE ENCLOSURES WITH CORROSION RESISTANT GALVANIZED (ZINC FINISH) SHEET METAL. DOORS SHALL BE ONE PIECE BOLT ON FRONT WITH LOCKABLE HINGED DOOR OVER THE OVERCURRENT PROTECTION DEVICES. BUS BARS SHALL BE SILVER PLATED COPPER. NEUTRAL SHALL BE FULL SIZE. OVER CURRENT PROTECTION DEVICE SHALL BE MOLDED CASE CIRCUIT BREAKERS FOR BRANCH PANELBOARDS.

15.GROUNDING: ALL SYSTEMS SHALL BE GROUNDED IN ACCORDANCE WITH THE NEC, RECOMMENDED PRACTICES OF IEEE STD 1100, AND ALL LOCAL CODES. CONDUIT OR CABLE ARMOR SHALL NOT BE SOLE MEANS OF GROUNDING FOR ANY CIRCUIT.

16.IDENTIFICATION: PROVIDE EQUIPMENT ENCLOSURES WITH ENGRAVED LAMINATE PLACARDS DISPLAYING EQUIPMENT DESIGNATION AND SOURCE OF POWER. LABEL PULL, JUNCTION & OUTLET BOXES USING INDELIBLE MARKER OR OTHER PERMANENT MEANS INSIDE THE COVER WITH ALL CIRCUIT NUMBERS CONTAINED INSIDE.

17.TESTING: ALL ELECTRICAL WORK SHALL BE TESTED AS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION, USING NETA STANDARD METHODS AND EQUIPMENT.

18.CLEANING: REMOVE FROM SITE ALL MATERIALS NOT USED IN THIS PROJECT. CLEAR ALL DEBRIS FROM AREA OF WORK AND LEAVE SITE IN CLEAN CONDITION. CLEAN ALL EQUIPMENT ENCLOSURES, INSIDE AND OUTSIDE.

19.PROVIDE FIRESTOPPING FOR ALL CONDUIT PENETRATIONS THROUGH WALLS AND FLOOR SLABS.

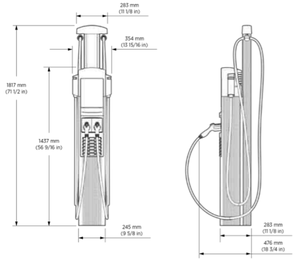
EVERCHARGE EV-CHARGER FUTURE INSTALL

ChargePoint® CP6000 AC Commercial Station

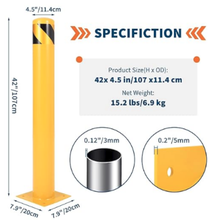
Specifications and Ordering Information

Dual port, pedestal mount, 18 ft cable

Pedestal Mount



TYPICAL EV CHARGER LAYOUT



EV CHARGER CONTROL

1. EV CHARGER CONTROLS SHALL BE SET TO **16A** TO ENSURE THAT LOAD ON PANELBOARDS DOES NOT EXCEED PANEL BOAD RATING. OWNER/CLIENT UNDERSTANDS THAT THIS SYSTEM WILL REDUCE CONSUMED ENERGY INCREASING CHARGE TIMES

NEW WORK SITE PLAN
NOT TO SCALE

PRECISE BUILDING SERVICES

Seal

COMMONWEALTH OF VIRGINIA
JASON P. WEAVER
Lic No. 0402049915
PROFESSIONAL ENGINEER

05/30/2025

Consultant

SHUMATE Engineering, PLLC
1577 SPRING HILL RD, SUITE 510 TYSONS, VA 22182

Project

EV-Charging 823 Follin Ln

823 Follin Ln SE
Vienna, VA 22180

Owner

Developer

ISSUE FOR PERMIT	05/30/2025
Issue Description	*Date*

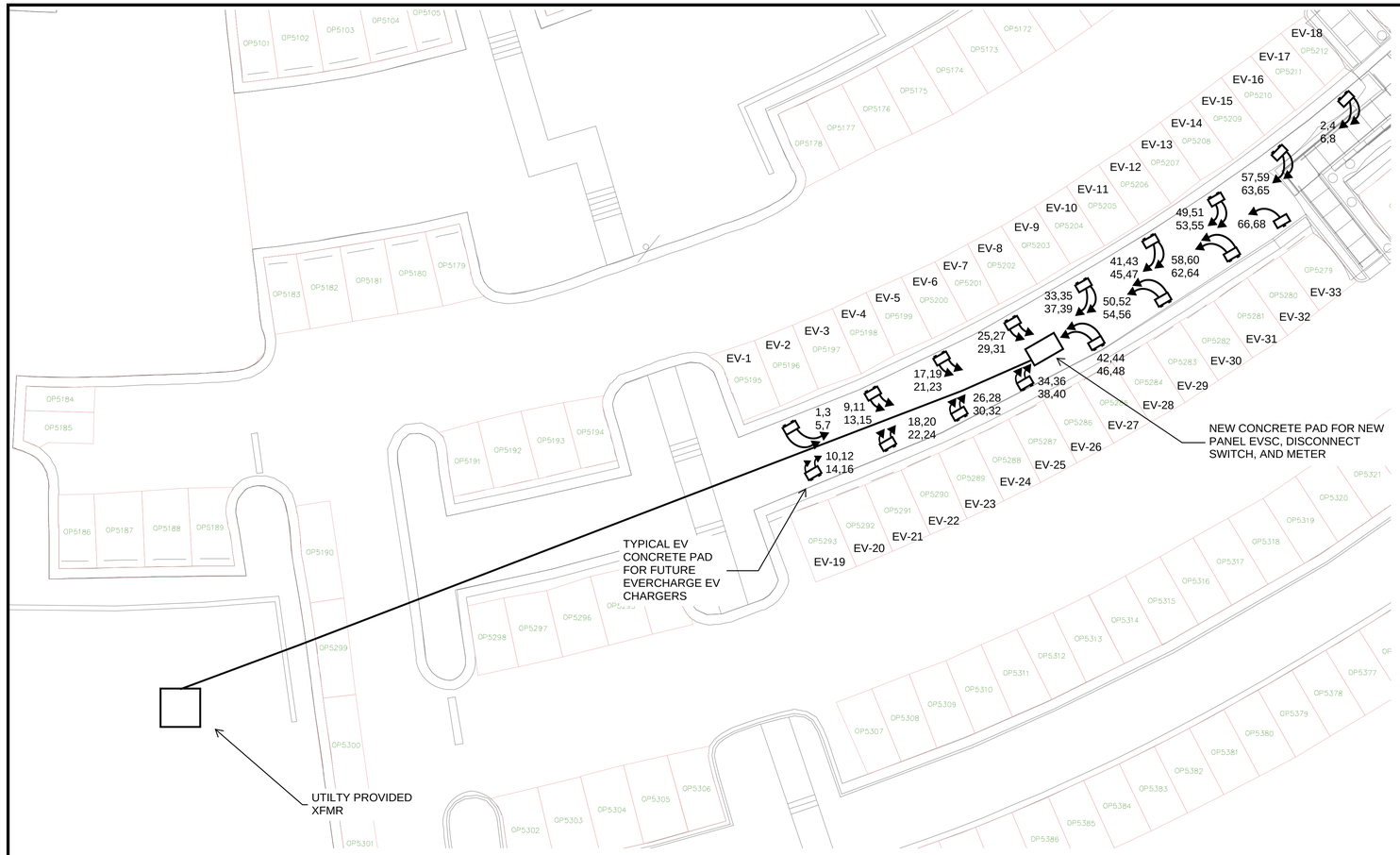
Project No.	25-009-02
Checked By	DS
Drawn By	WN
Scale	No Scale

Sheet Title

COVER SHEET

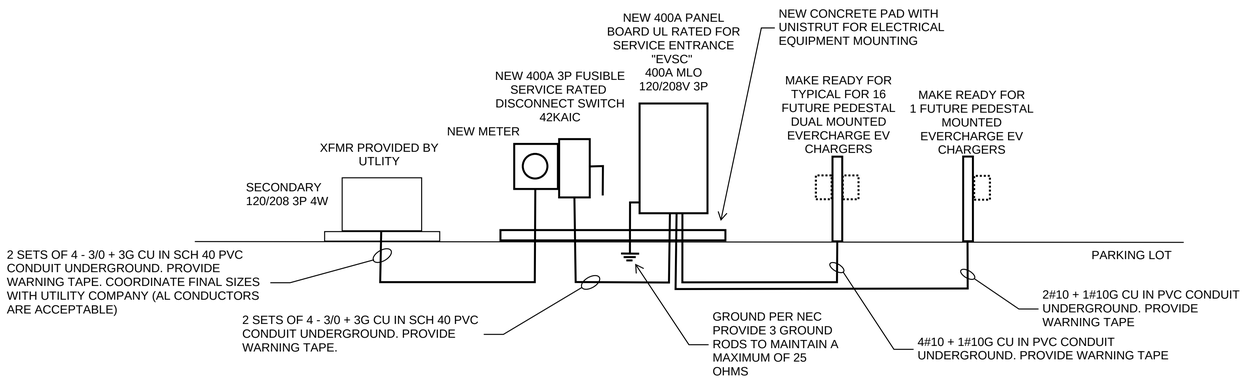
Sheet No.

E001



NEW WORK PLAN

NOT TO SCALE
NOTES:
1. NEW CHARGERS TO SERVE 33 PARKING SPACES
2. CONTRACTOR SHALL TRENCH AND PATCH ASPHALT
3. ALL ENCLOSURES SHALL BE MINIMUM NEMA 3R (4X PREFERRED)
4. PROVIDE LOCKABLE CIRCUIT BREAKERS
5. PROVIDE A MINIMUM OF 24" DEPTH FOR UNDERGROUND CONDUIT PER NEC 300.5
6. ALL HOME RUNS ARE TO PANELBOARD EVSC

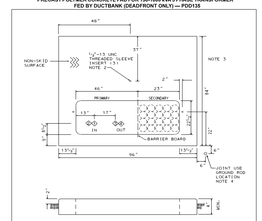


ELECTRICAL RISER DIAGRAM

NOT TO SCALE

PADS

PRECAST POLYMER CONCRETE PAD FOR 150-1000 kVA 3 PHASE TRANSFORMER FED BY DUCTBANK (DEADFRONT ONLY) — PDO135



Page 60 — Electric Distribution
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UTILTY XFMR PAD DETAIL

PANELBOARD: EVSC			FED FROM: UTILITY XFMR			MOUNTING: SURFACE			MAIN LUG ONLY BUS AMPACITY: 400A			VOLTAGE: 120/208V, 3PH, 4W A/C RMS: 42KAIC	
TYPE	DESCRIPTION	DEV.	CKT	LOAD/PHASE (VA) A	B	C	A	B	C	CKT	DEV.	DESCRIPTION	TYPE
K			1	1665			1665			2			K
K	EV-1	20/2	3		1665			1665		4	20/2	EV-17	K
K	EV-2	20/2	5			1665			1665	6	20/2	EV-18	K
K			7	1665			1665			8			K
K	EV-3	20/2	9		1665			1665		10	20/2	EV-19	K
K			11			1665			1665	12			K
K	EV-4	20/2	13	1665			1665			14	20/2	EV-20	K
K			15		1665			1665		16			K
K	EV-5	20/2	17			1665			1665	18	20/2	EV-21	K
K			19	1665			1665			20			K
K	EV-6	20/2	21		1665			1665		22	20/2	EV-22	K
K			23			1665			1665	24			K
K	EV-7	20/2	25	1665			1665			26	20/2	EV-23	K
K			27		1665			1665		28			K
K	EV-8	20/2	29			1665			1665	30	20/2	EV-24	K
K			31	1665			1665			32			K
K	EV-9	20/2	33		1665			1665		34	20/2	EV-25	K
K			35			1665			1665	36			K
K	EV-10	20/2	37	1665			1665			38	20/2	EV-26	K
K			39		1665			1665		40			K
K	EV-11	20/2	41			1665			1665	42	20/2	EV-27	K
K			43	1665			1665			44			K
K	EV-12	20/2	45		1665			1665		46	20/2	EV-28	K
K			47			1665			1665	48			K
K	EV-13	20/2	49	1665			1665			50	20/2	EV-29	K
K			51		1665			1665		52			K
K	EV-14	20/2	53			1665			1665	54	20/2	EV-30	K
K			55	1665			1665			56			K
K	EV-15	20/2	57		1665			1665		58	20/2	EV-31	K
K			59			1665			1665	60			K
	SPACE		61				1665			62	20/2	EV-32	K
K	EV-16	20/2	63		1665			1665		64			K
K			65			1665			1665	66	20/2	EV-33	K
			67				1665			68			K
			69							70			
			71							72			
			73							74			
			75							76			
			77							78			
			79							80			
			81							82			
SUBTOTAL (VA)				16,650	18,315	18,315	19,980	18,315	18,315	SUBTOTAL (VA)			
SUB-TOTAL ALL PHASES (VA)				PHASE A 36,630		PHASE B 36,630		PHASE C 36,630		* ARC-FAULT CIRCUIT BREAKER			
										** GFCI CIRCUIT BREAKER			

LOAD SUMMARY BY TYPE			CONNECTED	
R	=	RECEPTACLE	0	VA
L	=	LIGHTING	0	VA
E	=	EQUIPMENT	0	VA
K	=	EV CHARGING	109,890	VA
M	=	MOTOR	0	VA
X	=	LARGEST MOTOR	0	VA
H	=	ELECTRIC HEAT	0	VA

DEMAND
0 VA
0 VA
0 VA
137,363 VA
0 VA
0 VA
0 VA

CONNECTED LOAD SUMMARY
109,890 VA
305 AMPS

NEC LOAD SUMMARY
137,363 VA
381 AMPS

Dominion Energy Virginia
101 Elden Street
Herndon, VA 20170

DominionEnergy.com

May 12, 2025

Ariel Aklilu
Precise Building Services

Re: Service to 820 Follin Lane Southeast, Vienna, VA, 22180

To Whom it May Concern,

This letter is to advise you that the maximum available fault current at the Dominion Energy Virginia delivery point at the above referenced project will be **28, 431** (Approximately Amperes symmetrical). The available fault current is based on the transformer size necessary to serve the ***400*** amperes capacity specified by you, and the delivery point which will be Meter base.

Applicable regulations and ordinances require the installation of a suitably rated service panel to interrupt this fault current and it is the customer's responsibility to advise their contractor of the characteristics of the electricity to be provided so that proper equipment may be installed.

If you have question concerning this project, please call me at (571)-325 - 4228 or email me at Justin.T.Parks@dominionenergy.com.

Sincerely,

Justin Parks
Dominion Energy Project Coordinator

PRECISE BUILDING SERVICES

Seal

COMMONWEALTH OF VIRGINIA
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NEW WORK PLAN

Sheet No.

E201