ALBEMARLE COUNTY SERVICE AUTHORITY

168 Spotnap Road

Charlottesville, VA 22911

(434) 977-4511

Fax (434) 244-4349

DIRECT REPLY TO: Alex Morrison (Email: <u>amorrison@serviceauthority.org</u>) and Jeremy Lynn (E-Mail: <u>jlynn@serviceauthority.org</u>)

ISSUE DATE	REPLY NO LATER THAN	DATE DELIVERY REQUESTED
	6/20/2025 @ 2:00 PM	
5/30/2025	EST	ASAP

RFQ # 2481 – ACSA EV Charging Infrastructure

Request for Quotes (RFQ): ACSA EV Charging Infrastructure

Project Overview

The Albemarle County Service Authority (ACSA) is requesting quotes from qualified, licensed, and insured electrical contractors for the completion of electric vehicle (EV) charging infrastructure at the ACSA Administration Complex located at 168 Spotnap Road, Charlottesville, Virginia. This includes electrical, civil, and permitting work associated with the installation of conduit, pads, wiring, and associated devices to facilitate the release of a Dominion Energy transformer and meter set and support the activation of two dual-head Level 2 EV charging stations.

Scope of Work

General Electrical and Civil Work

- Finish installation of Dominion transformer pad and associated primary conduit.

- Remove the existing Main Distribution Panel (MDP) to allow for demolition of the current concrete pad and installation of a new concrete pad with proper distribution conduit.

- Reinstall MDP on the new pad with final terminations.
- Install a Main Disconnect (MD) and associated concrete pad and conduit.

- Install two concrete pedestal bases and conduit for two ACSA-supplied dual-head Level 2 chargers.

- Install conduit to three (3) future charger locations (conduit only).
- Install a conduit pull box.

Materials Supplied by ACSA

- MDP (Main Distribution Panel)
- MD (Main Disconnect)
- Dominion transformer pad
- Two dual-head Level 2 pedestal chargers

Materials and Responsibilities of Contractor

- All conduit, wiring, pull boxes, concrete (removal and installation), and terminations.

- Obtain and pay for all required permits and inspections.

- Ensure installation is in compliance with county code and passes all required inspections.

- Coordinate installation schedule with the ACSA to ensure timely release of work order for transformer and meter installation.

Note

Conduit from the transformer pad location to the CT cabinet, including the CT cabinet and meter base, has already been installed. Contractor must connect the remaining infrastructure per the provided drawings and complete all wiring to energize the two chargers.

Contractor Requirements

- Must be a licensed electrician in Virginia.
- Must comply with all OSHA safety requirements and local building codes.
- Must provide warranties on workmanship.

Deliverables

The quote must include:

- Detailed scope of work and methodology.
- Timeline for completion of the project.
- Breakdown of all associated costs (labor, materials, equipment, permit fees, etc.).
- Validity of pricing for a minimum of 45 days after submission deadline.

Submission Instructions

Submit your quote electronically to: amorrison@serviceauthority.org and <u>ilynn@serviceauthority.org</u>

Submit your questions to: amorrison@serviceauthority.org and jlynn@serviceauthority.org

Deadline for quote submission: 6/20/2025 @ 2:00 PM EST Deadline for questions: 6/13/2025 @ 2:00 PM EST

Attachments include:

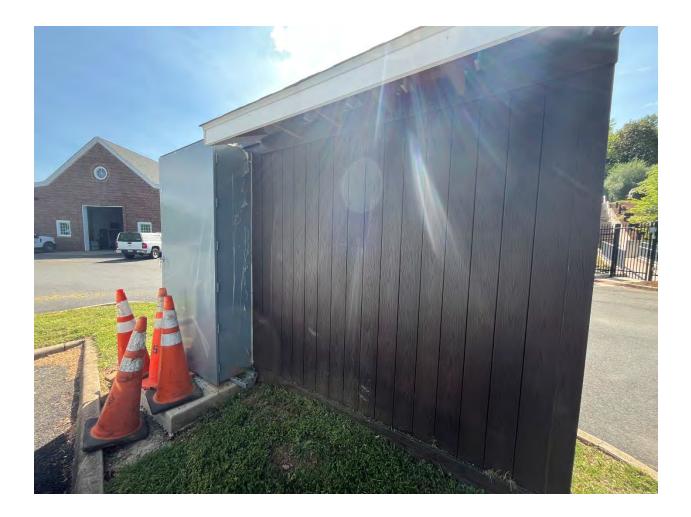
- Charging Infrastructure Plans (Overall)
- Existing Conditions Photos



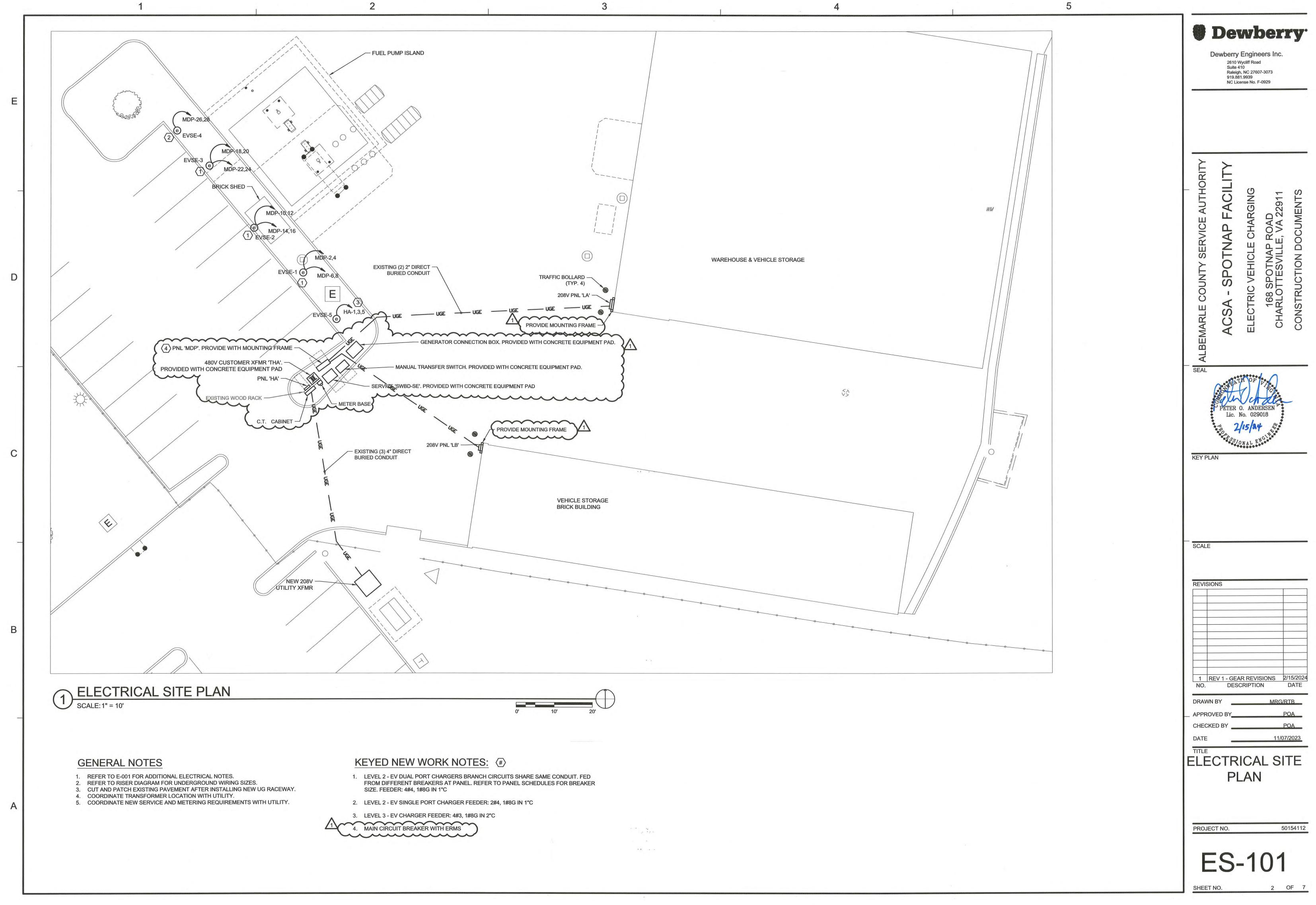


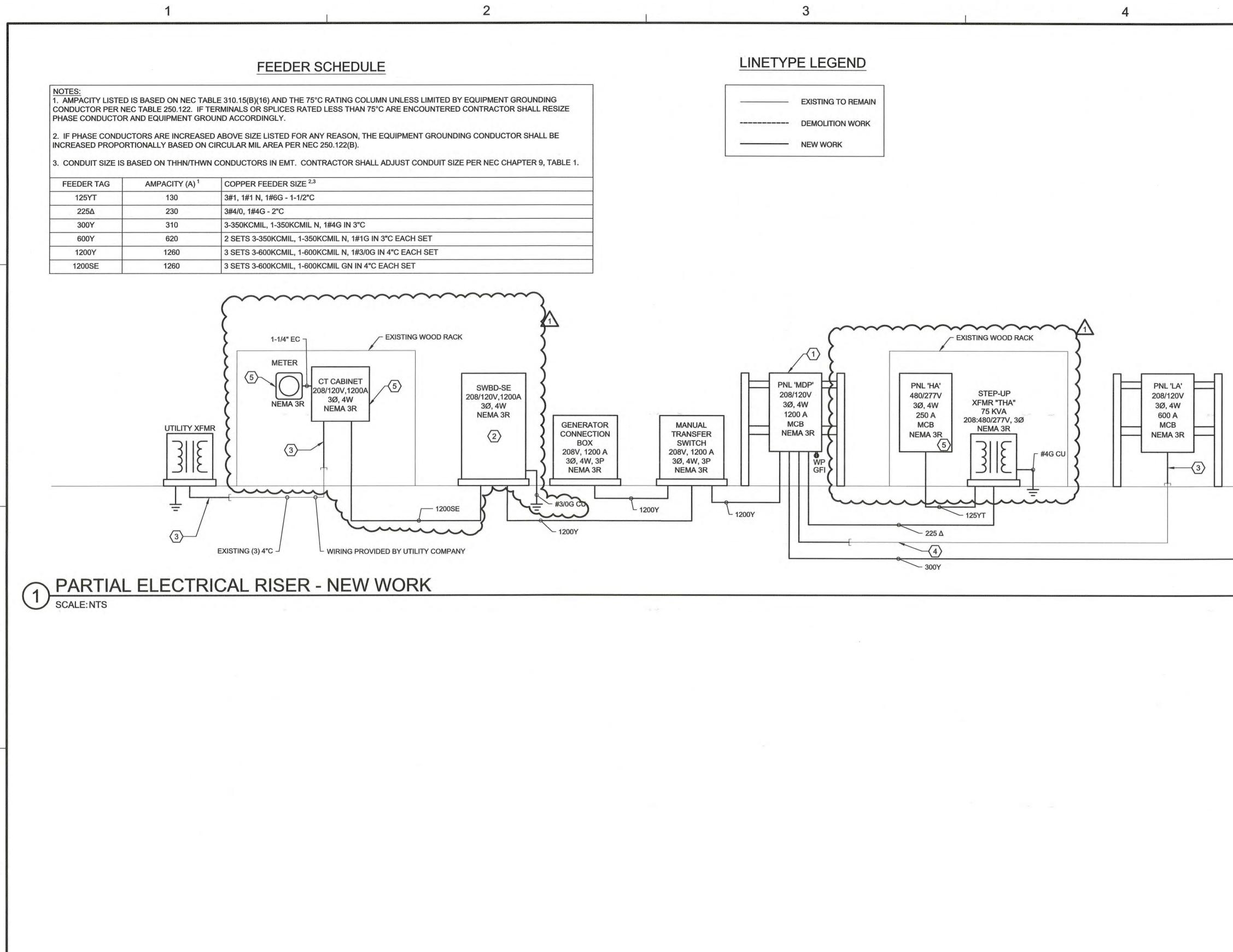












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 GENERAL NOTES REFER TO PANEL SCHEDULES FOR MAIN CIRCUIT BREAKER SIZE AND TYPE. REFER TO FEEDER SCHEDULE FOR WIRING AND CONDUIT SIZES. BOND METER BASE CT CABINET AND THEIR CONNECTING CONDUIT PER UTILITY REQUIREMENTS. IDENTIFY MTS AND PANELS WITH SOURCE LOCATION AND SHORT-CIRCUIT CALCULATION AS PER NEC. 	Bewberry Engineers Inc. 2610 Wycliff Road Suite 410 Raleigh, NC 27607-3073 919.881.9939 NC License No. F-0929
ALCULATION AS PER NEC. 9. PROVIDE ARC FLASH WARNING LABELS ON ALL EQUIPMENT. MEYED NOTES: () 9. PANEL MDP SHALL INCLUDE AN INTERNAL SPD. () SVBD-SE SHALL BE SERVICE ENTRANCE RATED MAIN CIRCUIT BRAKER, PROVIDE WARNING LABEL ON DISCONNECT "PREMISES" () INTERCEPT AND EXTEND EXISTING UNDERGROUND CONDUIT TO RECEDER). () MOUNT EQUIPMENT TO EXISTING WADERACC. PROVIDE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE MAIL MADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE MAIL MADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE MAIL MADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE MAIL MADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE MAIL MADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE MAIL MADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE MAIL MADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE MAIL MADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE MAIL MADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE MAIL MADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE MAIL MADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE MAIL MADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE MAIL MADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE MADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE MADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE MADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE ALL CONTINUE HARDWARE/ACCESSORIES. () MOUNT EQUIPMENT TO EXISTING WADE ALL CONTINUE HARDWARE/	ALBEMARLE COUNTY SERVICE AUTHORITY ALBEMARLE COUNTY SERVICE AUTHORITY ACCA - SPOTNAP FACILITY ACCA - SPOTNAP FACILITY ACCA - SPOTNAP FACILITY ISS SPOTNAP ROAD CHARLOND COUNTS CONSTRUCTION DOCUMENTS
	SCALE REVISIONS
	PROJECT NO. 50154112 E-901 SHEET NO. 7 OF 7



Owner: Albemarle County Service Authority, Charlottesville, Virginia Project Name: ACSA Spotnap Road EV Chargers **Contractor Name:** n/a (ACSA owner-purchase submittal)

Specification Section: 262416 Panelboards,

Submittal Title: Service Disconnect SWBD and MDP equipment

DEWBERRY ENGINEERS	INC.	
REVIEWED ONLY FOR GENERAL CONFORMANCE WITH THE PROJECT REQUIREMENTS INDICATED IN CONTRACT DOCUMENTS AND FOR CONSISTENCY WITH THE PROJECT DESIGN CONCEPT. THIS REVIEW	REVIEWED NO EXCEPTIONS	
DOES NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY, FOR ERRORS OR OMISSIONS IN DESIGNS FOR WHICH THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE	REVIEWED EXCEPTIONS NOTED	
CONTRACT DOCUMENTS AND FOR THE SAFE AND SUCCESSFUL CONSTRUCTION OF THE WORK. THIS REVIEW DOES NOT CONSIDER THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS	REVISE AND RESUBMIT	
OF CONSTRUCTION, OR SAFETY, PRECAUTIONS OR PROGRAMS INCIDENTAL THERETO, WHICH ARE THE SOLE RESPONSIBILITY OF THE	REJECTED	
CONTRACTOR.	INFORMATION ONLY	
By: Peter O. Andersen, PE	Date: 1/30/2024	

Comments

- 1. Service Switchboard:
 - a. For record-keeping, this service-entrance rated switchboard was originally intended, per Dewberry contract documents, to be an enclosed circuit breaker style, service-entrance rated disconnect, but the building code-required ERMS maintenance switch would only fit in a panelboard or switchboard enclosure. ACSA chose to provide a switchboard for cost reasons.
 - b. Site Coordination: Provide and mount the free-standing switchboard on a concrete pad. Ensure the existing wood support structure does not interfere with the taller service switchboard and the larger switchboard L & W dimensions are accounted for.
- 2. MDP Panelboard:
 - a. Dewberry indicates and recommends ACSA provide this MDP with an integral Surge Protection Device SPD or provide a 3P-60A circuit breaker and a remote-mounted SPD for lightning surge protection of MDP and EV equipment. Submit information on SPD equipment chosen and revised MDP breaker Bill of Material.
 - b. For informational purposes only, the six prepared 3P-20A spaces indicated will need be replaced in the future if ACSA chooses to add any more future EV chargers requiring 2P-70A breakers (or any load requiring other than 3P-20A future breakers).
 - c. Coordinate 2P-70A breakers indicated in submittal with actual overcurrent device maximum required by ACSA's chosen EVSE equipment.



SUBMITTAL Total Sheets Including Cover: <u>24</u>

Date:	1-23-2024	We	are sending you the following:
		X	Submittals - Gear
To:	Albemarle Co Service Authority		Submittals – Lighting
	168 Spotnap Rd		Submittals -
	Charlottesville, VA 22911		Specifications
Attn:	Alex Morrison		Quote
			Submittals – Other
Fax:	434-979-0698		
			As Requested
Phone:	434-977-4511	X	For Approval
			For Review and Comment
Project:	EV Charging Equipment		Approved, As Noted
			Approved, As Submitted
Job #:	2466		Return Enclosures
			Attached
Re:			For Your File
cc:		Via	
			Pick Up
From:	Capital Electric Supply		US Mail
	1602 South High Street	X	E-Mail
	Harrisonburg, Virginia 22801		Fax
			Delivery
	(540) 433-8200 – Phone		
	(540) 433-3738 - Fax		

If enclosures are not as noted, or if all pages did not transmit, please contact us immediately.

Please provide one (1) set of approved submittals for my records and order release. Contact me if there are any questions.

Best regards,

Mac Erskine Manger – Project Management – Sales

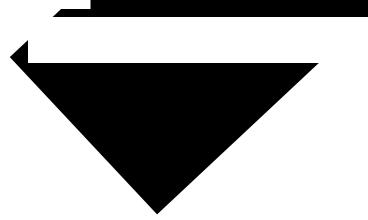




Proposal Name: Albemarle County S Quote Name: Albemarle County

Proposal Num

Quot



Life Is On Schneider

TABLE OF CONTENTS

Switchboards

Panelboards

This Section Contains Products: Switchboards

Quote Date: 01/16/2024

Seq # Qty Product Description

Seq #	Qty	Product Description
1	1	Designation : Service Disconnect
		Product Details: 1-Square D Standard Swbd-QED-2 Switchboard
		Square D Standard Swbd Designed and Tested in accordance with: UL 891/NATIONAL ELECTRIC CODE/NEMA PB-2 System Voltage - 208Y/120V 3Ph 4W 60Hz System Ampacity - 1200A Source Description - Single Main Bussing - Silver Plated Copper Neutral Bus - 100%

Neutral Bus - 100% Max Available Fault Current (RMS) - 65kA Enclosure - Type 3R Non-Walk-in Installed Location: Outdoor Accessibility: Front Only Rodent Barrier No Horizontal Bus Exterior Paint Color - ANSI 49 Ground Lug provided for each device Barriers between Sections Strip Heaters - Internal Power Source with Thermostat Strip Heaters - Internal Power Source with Humidistat Copper Ground Bus Bottom Closure Plates

Dimensions

1 - 30" Wide Section(s) 1 - Dimensions: 30.00" W X 35.5" D X 91.5"H 1 - 35.5" Deep Enclosure(s) Approximate Weight: 808.00 lbs / 366.51 kgs

Incoming Requirements

Suitable for Use As Service Entrance Entry Point: Left of Lineup Through the Bottom Connection Type: Cable

Mains

1 - 1200AS/1200AT 208V 80% Rated 100 kA 3 Pole UL, Fixed Mounted Electronic Trip Circuit Breaker: Type PJ Ammeter Trip Unit, Long Time, Short Time, Instantaneous Maintenance Mode Switch

Estimated days to ship, excluding transit: 245 working days after customer release to manufacturer. See Conditions of Sale.

No T-bus	 		
No T-bus Image: Section Barries Image: S	No T-bia SWITCHGOADD CENERAL PRODUCT DESCRIPTION & EM Prover System Data Solidy (7/30/3b) AM 64/01/ / 2 Solidy (7/3b) AM 64/01/ / 2		
PRODUCT DESCRIPTION & Power System Auto 2087/120V 3Ph 4W 60H2 , Solidly Grounded System Short Circuit Currer Incoming Section 1 Cable 1 Bus System Data 1200A Silver Plated Copper (1) .25x.875 IN/6x22 mm Enclosure Data Type 3R Free Standing Exterior Paint Color: ANSI 4 Front Accessibility Only Req Hondling: Rollers Strip Heater w. Thermostat Rodent barriers 1.5H Corrosion Resist Base Steiel Bottom Closure Plate Section Barriers 1.5H Corrosion Resist Base Strip Heater Shipping Weig Section Barriers Strip Strip 1808.00 Weig	No T-ous People System Data and Depression Sheet Check 2.3 Solide, Second System Sheet Check 2.3 Solide, Solide, Solide, Solide, Solide, S		-/ -
91.50 Image: Second		No T-bus	// SWITCHBOARD GENERAL PRODUCT DESCRIPTION & RA Power System Data 208Y/120V 3Ph 4W 60Hz / Solidly Grounded System Short Circuit Current Incoming Section 1 Cable Thr
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JOB NAME: Albemarle County Service Authority	JOB NAME: Albemarle County Service Authority		JOB LOCATION:
			DRAWN BY: (Q2C)
JOB LOCATION:	JOB LOCATION:		ENGR:
JOB LOCATION: DRAWN BY: (Q2C)	JOB LOCATION: DRAWN BY: (Q2C)		DATE: January 15 2024
JOB LOCATION: DRAWN BY: (Q2C) ENGR:	JOB LOCATION: DRAWN BY: (Q2C) ENGR:		DRAWING STATUS: QUOTE

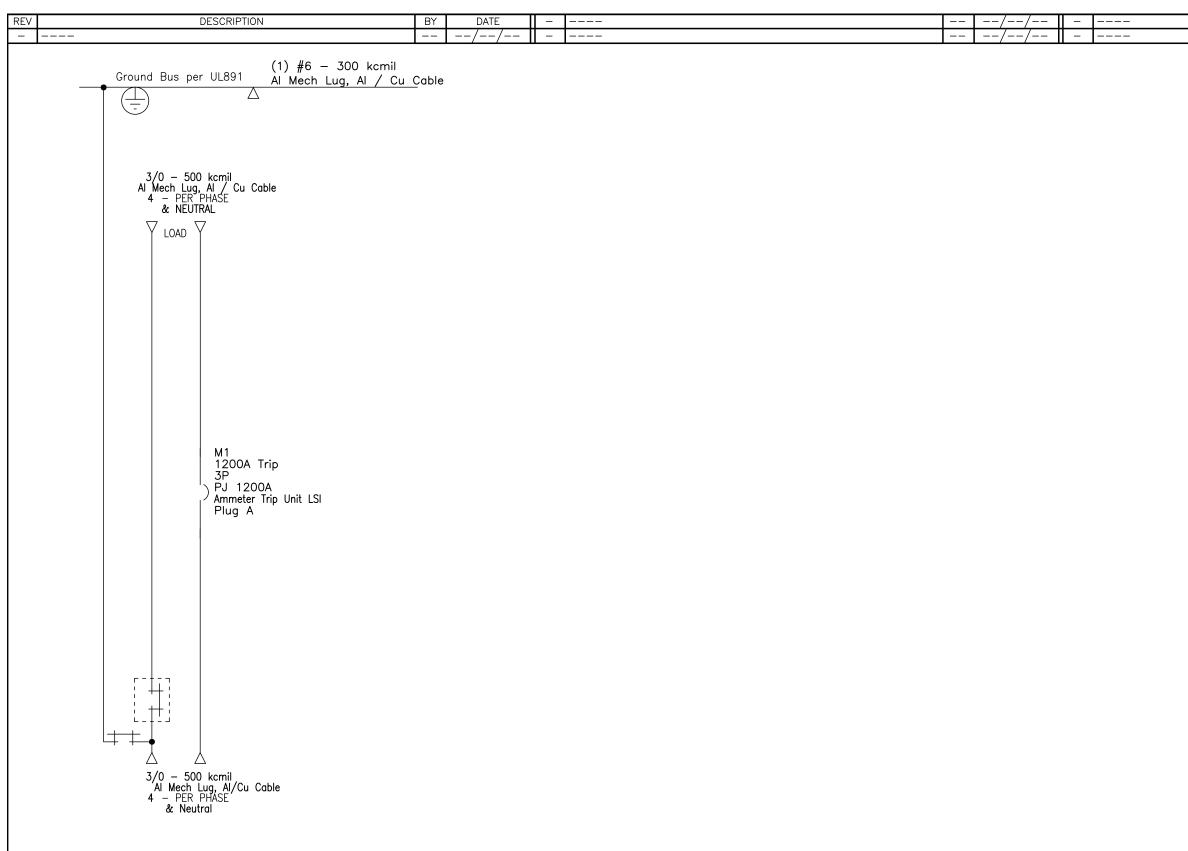
DRAWING STATUS: QUOTE

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EQUIPMENT DESIGNATION	V: Service Disconnect			
EQUIPMENT TYPE:	QED-2 Switchboard			
DRAWING TYPE:	GENERAL NOTES			
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	by Schneider Electric			_
DWG# FQ-4666432-13	6582469-01	PG 1	of 2	REV -

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	A MINIMUM OF 2.00/[51] CLEARANCE BEHIND THE SWITCHPOARD IS REQUIRED		EQUIPMENT TYPE:QED-2 SwitchboardDRAWING TYPE:SIDE, TOP VIEW & FLOOR PLAN
	SWITCHBOARD IS REQUIRED ENGR:		SQUARE 🗩
	DATE:	January 15 2024 STATUS: QUOTE	by Schneider Electric DWG# FQ-4666432-136582469-01 PG 2 OF 2 REV -
	DRAWING	STATUS, QUUIL	



SECTION 1

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JOB LOCATION:				EG	UIPMENT TYPE:	QED-2 Switchboard			
DRAWN BY:	(Q2C)			DR	AWING TYPE:	ONE LINE			
ENGR:						SQUARE 🖸			
DATE:	January 15 2024	4				by Schneider Electric			
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JOB NAME:	Albemarle County Service Authority	
JOB LOCATION:		
DRAWN BY:	(Q2C)	
ENGR:		
DATE:	January 15 2024	
DRAWING STATUS	: QUOTE	
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		LEGEND
	MMS	Maintenance Mode Setting Switch
TES	SHR	Strip Heater
IES	TU	24V Trip Unit Display Power

EQUIPMENT DESIGNATIO	N: Service Disconnect						
EQUIPMENT TYPE:	QED-2 Switchboard						
DRAWING TYPE:	SCHEDULE						
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by Schneider Electric							
DWG# OQ-4666432-1	36582469-01	PG 2	of 2	REV -			

This Section Contains Products: Panelboards

Quote Date: 01/16/2024

Qty **Product Description** Seq # 2

1 Designation : MDP

Product Details:

1-I-Line MB Panel (INTERIOR)-I-Line Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 65kA Fully Rated Single Main: 1200AS/1200AT/3P PG Circuit Breaker 80% Rated Main Trip Function: LSI Main Trip Unit: Ammeter Trip Unit Main Acc: Maintenance Mode Switch Incoming Conductors: 1 - (4) 3/0 - 500kcmil Bus: 1200A Rated Copper: Tin Plated CU Ground Bar 108" of Mounting Inches Type 3R/5/12Box: 86H x 44W x 14.63D Incoming: Bottom Trim w/ Box Box Cat No: HC4486WP Ref. Drawing PBA416 Type: HCR-U Feeders: 1 - 400AS/300AT/3P LG Std. LSI 80% 1 - 400AS/400AT/3P LG Std. LSI 80% 1 - 20A/1P BG 7 - 70A/2P BG 6 - 20A/3P BG Prepared Space 1 - 225A/3P QG **Optional Features:** Standard Panel (Box Ahead), Copper Solid Neutral, Copper Ground Bar, Standard Mains and Feeders Mechanically Restrained **Branch User Placement** 1-HC4486WP-PNLBD ENCLOSURE/BOX T-3R/12 86H 44W

Estimated days to ship, excluding transit: 77 working days after customer release to manufacturer. See Conditions of Sale.

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DATE	<u>-: </u>		∠ ⊤			4			2-1366452	by Schneider	Electric	PG 1 O	F 1	REV

Product data sheet Characteristics

HC4486WP Box, I-Line Panelboard, HCR-U, 44in W x 86in H x 14.50in D, Type 3R/12, w/trim

SQUARE D



Product availability: Stock - Normally stocked in distribution facility



Main

Range of Product	I-Line	
Product or Component Type	Enclosure	
Device Application	Panelboard	
Device short name	HCR-U	-

Complementary

Line Rated Current	1200 A		
Enclosure nominal width	44.02 ln (1118 mm)		
Enclosure nominal height	85.98 ln (2184 mm)		
Enclosure nominal depth	14.49 ln (368 mm)		
Net Weight	337.99 Lb(US) (153.31 kg)		
Height	86 In (2184.40 mm)		
Depth	14.5 ln (368.30 mm)		

Environment

NEMA Degree of Protection	NEMA 3R/12
Standards	UL CSA

Ordering and shipping details

Category	US1PE1A00110	
Discount Schedule	PE1A	
GTIN	785901231332	
Returnability	Yes	
Country of origin	MX	



Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	22.01 ln (55.9 cm)
Package 1 Width	45.39 ln (115.3 cm)
Package 1 Length	87.99 ln (223.5 cm)
Package 1 Weight	492.00 Lb(US) (223.167 kg)

Offer Sustainability

Sustainable offer status	Green Premium product		
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compound- s, which is known to the State of California to cause cancer, and Bisphenol A (B- PA), which is known to the State of California to cause birth defects or other reproduc- tive harm. For more information go to www.P65Warnings.ca.gov		
REACh Regulation	REACh Declaration		
EU RoHS Directive	Compliant with Exemptions		
Mercury free	Yes		
China RoHS Regulation	China RoHS Declaration		
RoHS exemption information	₽ Yes		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile	No need of specific recycling operations		
PVC free	Yes		

Contractual warranty

Warranty	18 months	
Product Life Status :	Commercialised	