


# KITSAP 911 – CENCOM

## DC POWER SYSTEM REPLACEMENTS

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K911-DC-11400	SUQUAMISH DC POWER DIAGRAM
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K911-DC-11500	TEAL LAKE DC POWER DIAGRAM
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K911-DC-11640	NEW SITE FUSED BATTERY DISCONNECT SWITCH


	KITSAP 911		KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG				KITSAP 911 TABLE OF CONTENTS					
DATE	7-AUG-2023	DWG#	K911-DC-TOC							
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE		SHEET	1 OF 64	SIZE	FINAL	-	-

# DC POWER SYSTEMS SUMMARY<sup>1</sup>

Abbreviation Site Name Address	RECTIFIER SYSTEM	BATTERY SYSTEM
	AC INPUT VOLTAGE DC OUTPUT VOLTAGE RECTIFIER MODULES DC DISTRIBUTION	MODEL NUMBER DC VOLTAGE AMPACITY STRINGS, TOTAL JARS
<b>CC</b> <b>KITSAP 911 (a.k.a. CENCOM)</b> 911 Carver Street Bremerton, WA Kitsap County	<b>ELTEK MODULAR HE 15U</b> 120/208, 277/480 VAC 3φ -48 VDC 15) 3KW MODULES NEW DC DISTRIBUTION	<b>ENERSYS (NEW)</b> DDM P125-33 -48 VDC 2000 AH 2 STRINGS, 48 JARS
<b>E30</b> <b>East 30<sup>th</sup></b> 3027 Olympus Drive Bremerton, WA 98310 Kitsap County	<b>ELTEK UNITY</b> 120/240 VAC 1φ -48 VDC 4) 2KW MODULES EXISTING DC DISTRIBUTION	<b>ENERSYS (EXISTING)</b> DDM 85-13 -48 VDC 510 AH 1 STRING, 24 JARS
<b>GM</b> <b>Gold Mountain</b> 1686 Minard Road West Bremerton, WA Kitsap County	<b>ELTEK UNITY</b> 120/240 VAC 1φ -48 VDC 8) 2KW MODULES EXISTING DC DISTRIBUTION	<b>ENERSYS (REPLACE)</b> DDM P125-27 -48 VDC 1625 AH 2 STRINGS, 48 JARS
<b>HR</b> <b>Hansville Road</b> 31821 Hansville Rd NE Hansville, WA 98340 Kitsap County	<b>ELTEK UNITY</b> 120/240 VAC 1φ -48 VDC 4) 2KW MODULES EXISTING DC DISTRIBUTION	<b>ENERSYS (EXISTING)</b> DDM 85-13 -48 VDC 510 AH 1 STRING, 24 JARS
<b>LH</b> <b>Lincoln Hill</b> 20230 Pugh Road NE Poulsbo, WA Kitsap County	<b>ELTEK UNITY</b> 120/240 VAC 1φ -48 VDC 4) 2KW MODULES EXISTING DC DISTRIBUTION	<b>ENERSYS (EXISTING)</b> DDM 85-13 -48 VDC 510 AH 1 STRING, 24 JARS
<b>MO</b> <b>Mandus Olson</b> 10590 Mandus-Olson Road NE (East of Mandus Olson Road NE, South of NE Koura Road) Bainbridge Island, WA Kitsap County	<b>ELTEK UNITY</b> 120/240 VAC 1φ -48 VDC 4) 2KW MODULES EXISTING DC DISTRIBUTION	<b>ENERSYS (EXISTING)</b> DDM 85-13 -48 VDC 510 AH 1 STRING, 24 JARS

Abbreviation Site Name Address	RECTIFIER SYSTEM	BATTERY SYSTEM
	AC INPUT VOLTAGE DC OUTPUT VOLTAGE RECTIFIER MODULES DC DISTRIBUTION	MODEL NUMBER DC VOLTAGE AMPACITY STRINGS, TOTAL JARS
<b>NH</b> <b>Newberry Hill</b> 8115 Dickey Road Silverdale, WA Kitsap County	<b>ELTEK UNITY</b> 120/240 VAC 1φ -48 VDC 4) 2KW MODULES EXISTING DC DISTRIBUTION	<b>ENERSYS (EXISTING)</b> DDM 85-13 -48 VDC 510 AH 1 STRING, 24 JARS
<b>OH</b> <b>Orchard Heights</b> 1826 Fircrest Drive SE Port Orchard, WA Kitsap County	<b>ELTEK UNITY</b> 120/240 VAC 1φ -48 VDC 4) 2KW MODULES EXISTING DC DISTRIBUTION	<b>ENERSYS (EXISTING)</b> DDM 85-13 -48 VDC 510 AH 1 STRING, 24 JARS
<b>PU</b> <b>Purdy</b> Purdy Transfer Station 14515 54th Avenue N.W. Purdy, WA Pierce County	<b>ELTEK UNITY</b> 120/240 VAC 1φ -48 VDC 4) 2KW MODULES EXISTING DC DISTRIBUTION	<b>ENERSYS (EXISTING)</b> DDM 85-15 -48 VDC 595 AH 1 STRING, 24 JARS
<b>SP</b> <b>Simon Point</b> 2400 Tahuyeh Lake Rd NW Bremerton, WA 98312 Kitsap County	<b>ELTEK UNITY</b> 120/240 VAC 1φ -48 VDC 4) 2KW MODULES EXISTING DC DISTRIBUTION	<b>ENERSYS (EXISTING)</b> DDM 85-13 -48 VDC 510 AH 1 STRING, 24 JARS
<b>SU</b> <b>Suquamish</b> 22063 Dewberry Rd NE Indianola, WA 98342 Kitsap County	<b>ELTEK UNITY</b> 120/240 VAC 1φ -48 VDC 4) 2KW MODULES EXISTING DC DISTRIBUTION	<b>ENERSYS (EXISTING)</b> DDM 85-13 -48 VDC 510 AH 1 STRING, 24 JARS
<b>TL</b> <b>Teal Lake</b> 1057 Teal Lake Road Port Ludlow, WA Jefferson County	<b>ELTEK UNITY</b> 120/240 VAC 1φ -48 VDC 4) 2KW MODULES EXISTING DC DISTRIBUTION	<b>ENERSYS (EXISTING)</b> DDM 85-13 -48 VDC 510 AH 1 STRING, 24 JARS

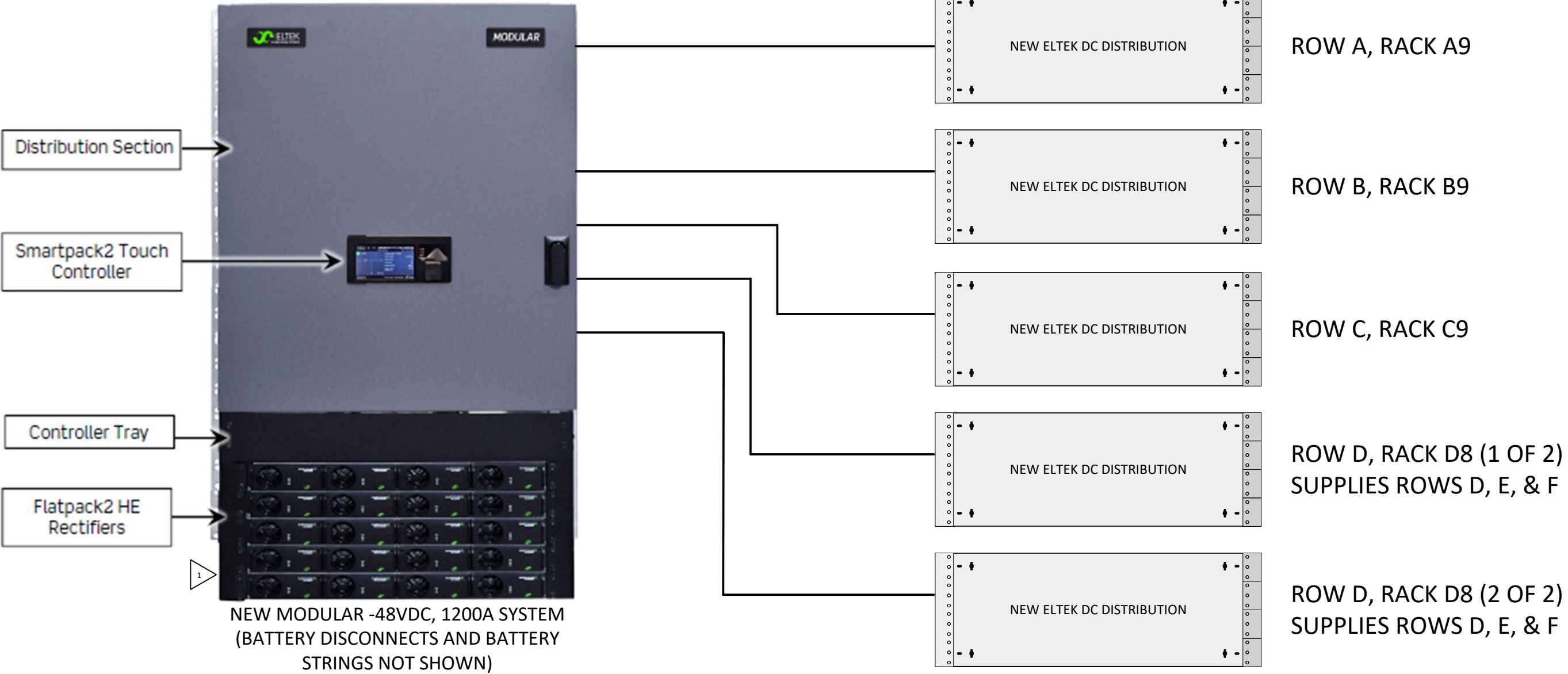
<sup>1</sup>A New Site design for future sites is also included in the drawing package. A new rectifier system, battery system, and fused battery disconnect switch will be required for new sites.

	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG			DC POWER SYSTEMS SUMMARY					
DATE	7-AUG-2023	DWG#	K911-DC-10000	SHEET	2 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE						

# MODULAR HE 15U OVERVIEW 911 CARVER ST (CENCOM)

ELECTRICAL ROOM

EQUIPMENT ROOM



Distribution Section

Smartpack2 Touch Controller

Controller Tray

Flatpack2 HE Rectifiers

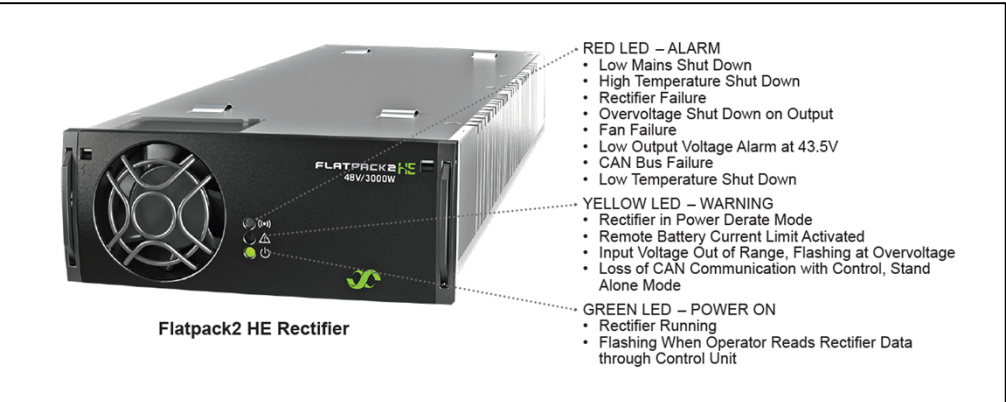
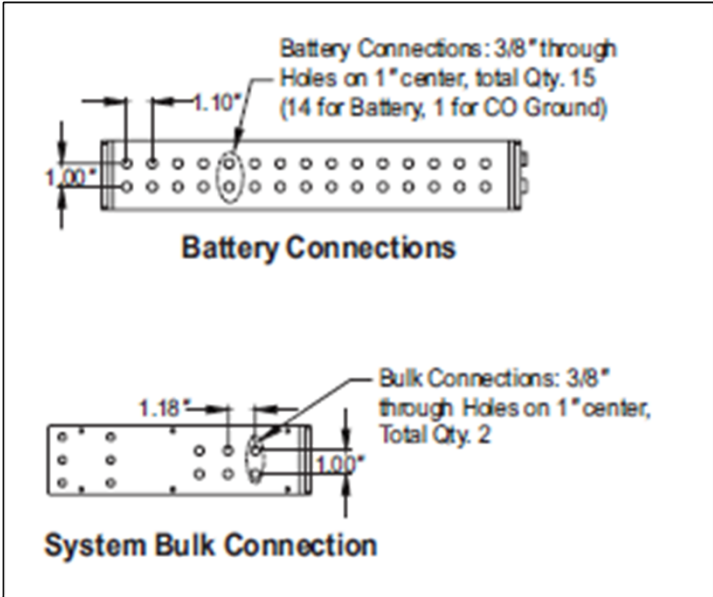
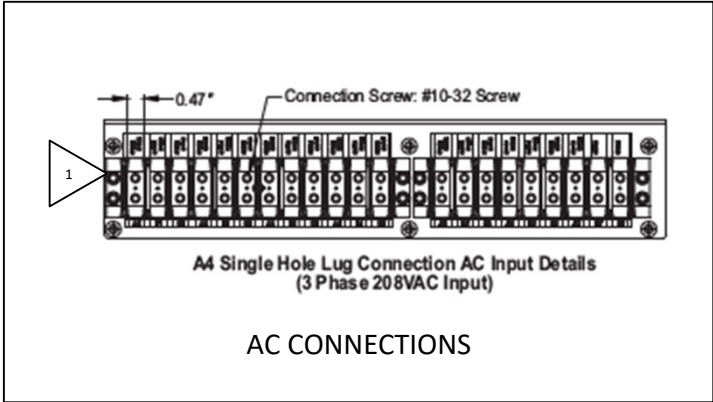
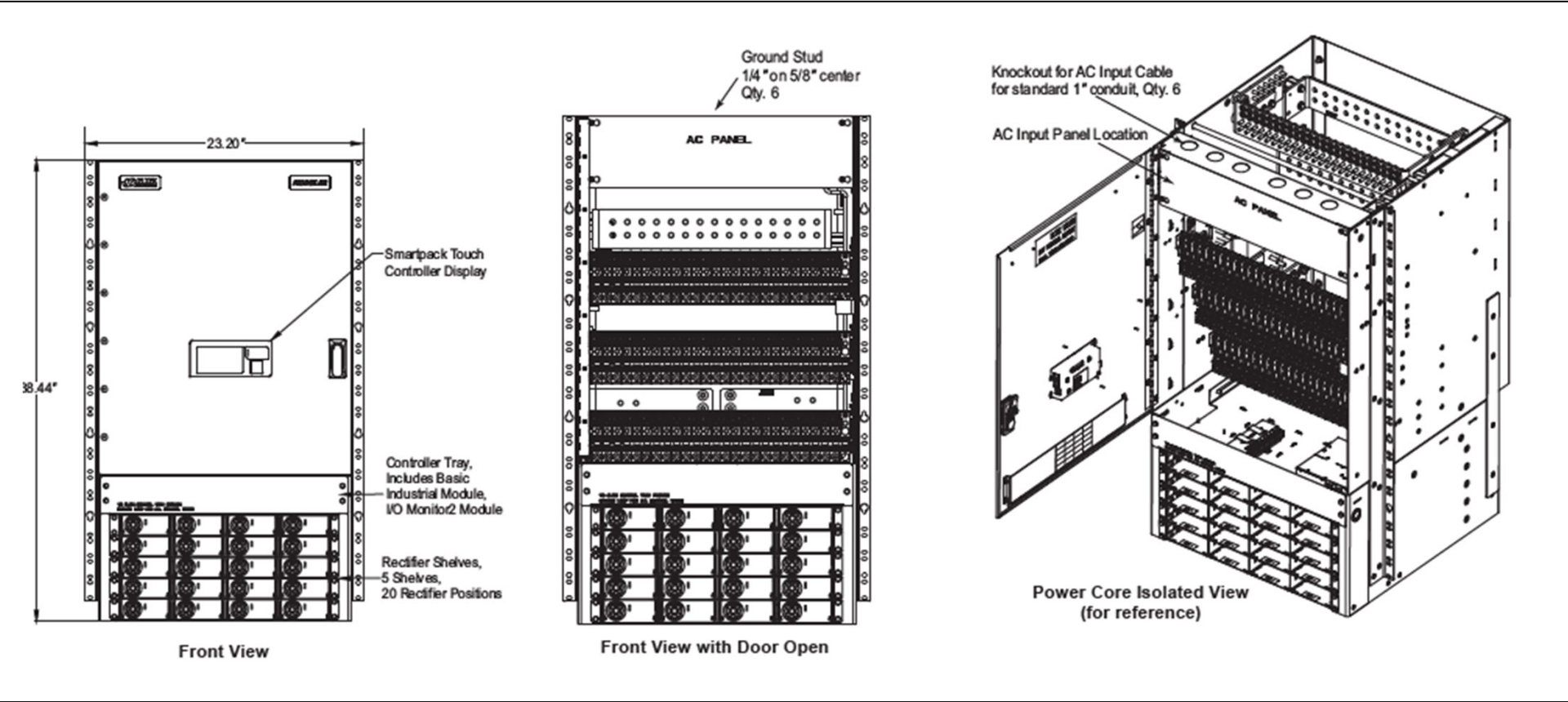
**FLAG NOTES:**

- 1. MODULAR HE 15U IS SHOWN WITH 20 3KW RECTIFIERS. ONLY 15 WILL BE INSTALLED WITH 5 UNUSABLE SLOTS.

	KITSAP 911		KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG				MODULAR HE 15U OVERVIEW 911 CARVER ST. (CENCOM)					
DATE	7-AUG-2023	DWG#	K911-DC-10100		SHEET	3 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE							



# MODULAR HE 15U RECTIFIER SHELF, CONNECTIONS, AND 3KW RECTIFIER



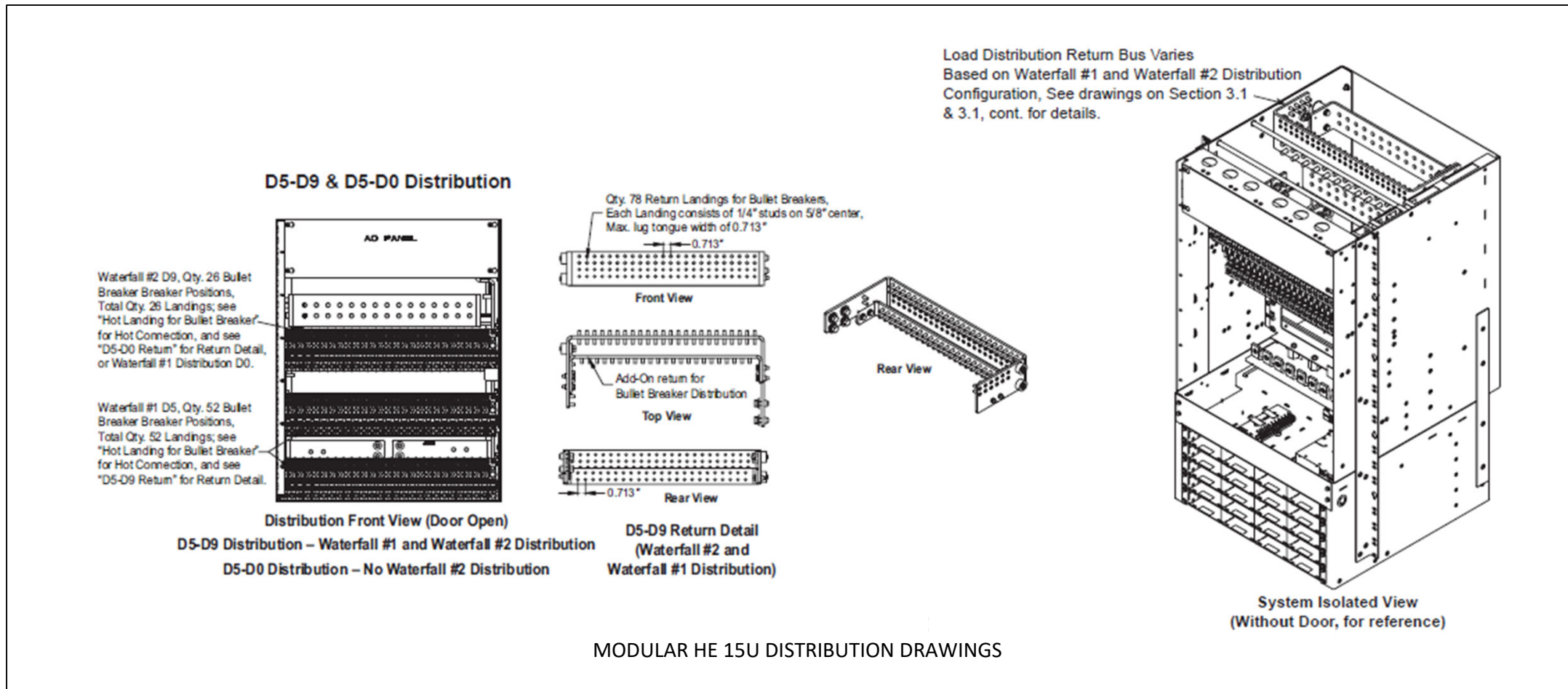
**FLAG NOTES:**

1. CONTRACTOR TO FURNISH AND INSTALL FIVE 120/208 VAC 3φ 40 A CIRCUITS WITH BREAKERS AS FOLLOWS:  
AC PANEL K – 2 CIRCUITS, AC PANEL A – 2 CIRCUITS, AND AC PANEL C – 1 CIRCUIT.

	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG	DATE	7-AUG-2023	DWG#	K911-DC-10110		MODULAR HE 15U RECTIFIER SHELF, CONNECTIONS, AND 3KW RECTIFIER		
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE	SHEET	4 OF 64	SIZE	FINAL	-	-

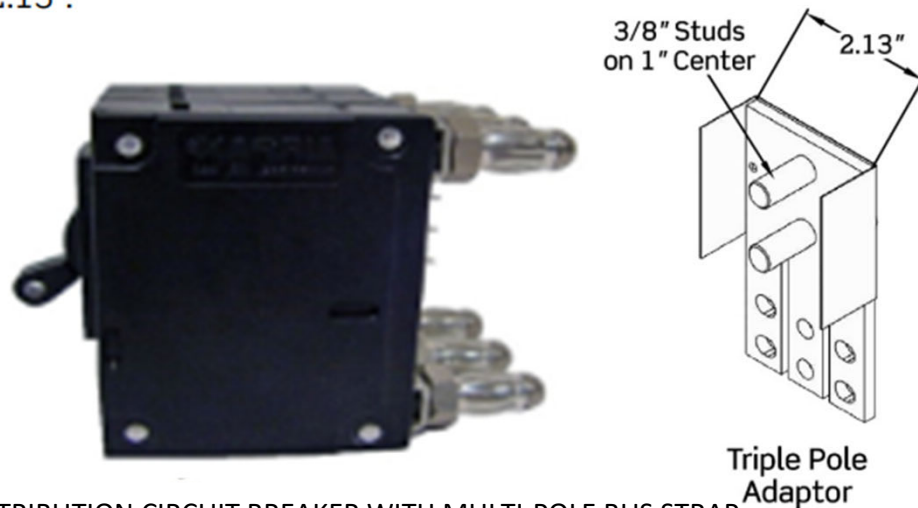


# MODULAR HE 15U DISTRIBUTION DRAWINGS AND BREAKER FOR AUX. DISTRIBUTION



MODULAR HE 15U DISTRIBUTION DRAWINGS

Triple Pole Breakers  
 250A; includes bus strap with 3/8" studs on 1" center; maximum tongue width for lug is 2.13".



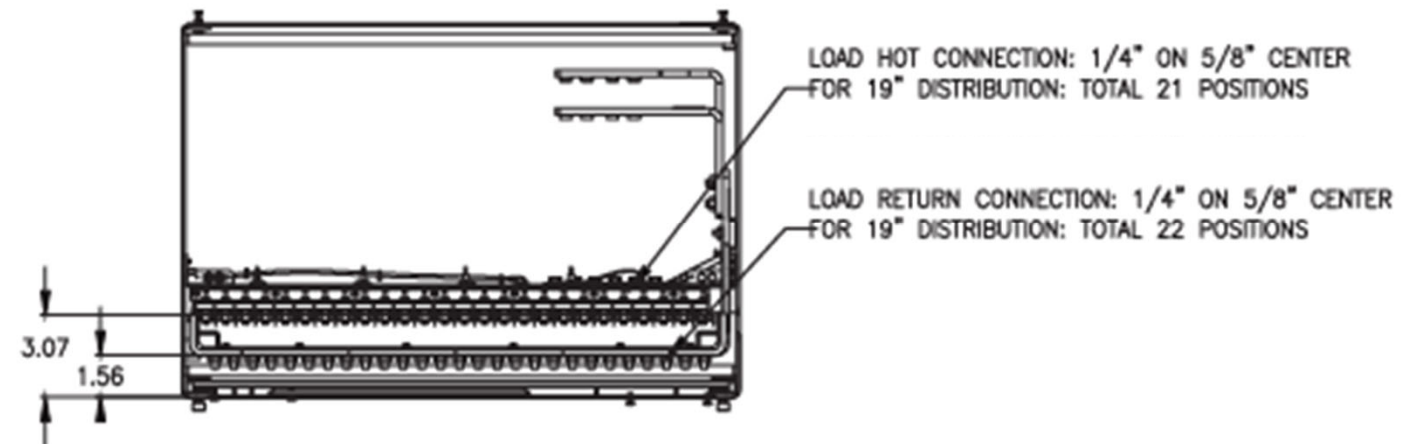
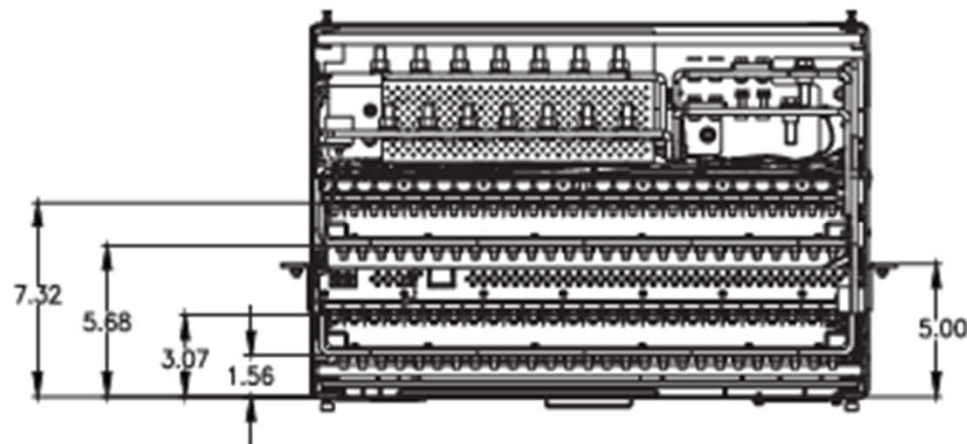
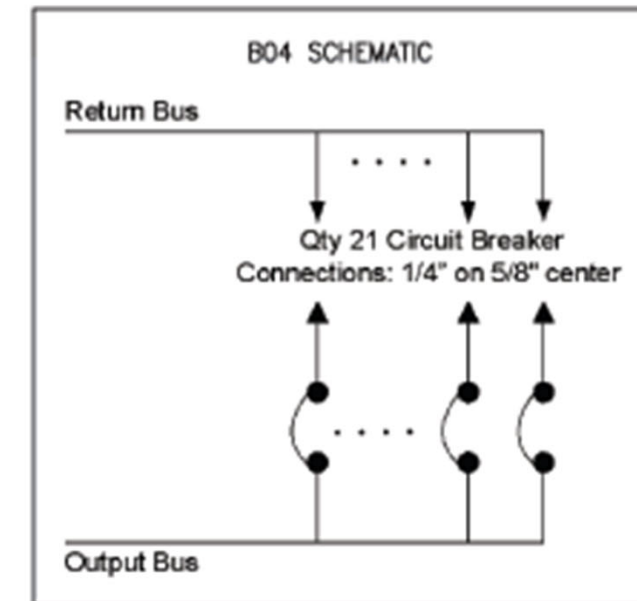
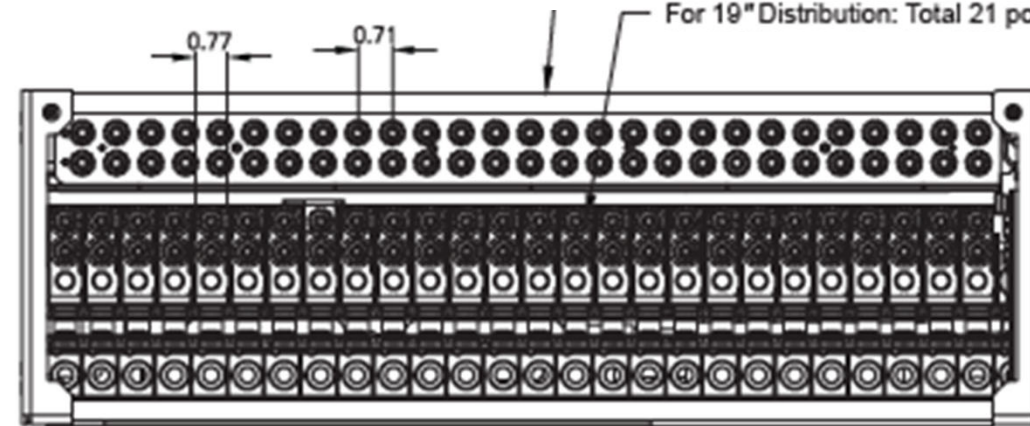
AUX. DISTRIBUTION CIRCUIT BREAKER WITH MULTI-POLE BUS STRAP


	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG			MODULAR HE 15U DISTRIBUTION DRAWINGS AND BREAKER FOR AUX. DIST.					
DATE	7-AUG-2023	DWG#	K911-DC-10120						
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE	SHEET	5 OF 64	SIZE	FINAL	-	-

# MODULAR HE 15U DC AUX. DISTRIBUTION PANELS

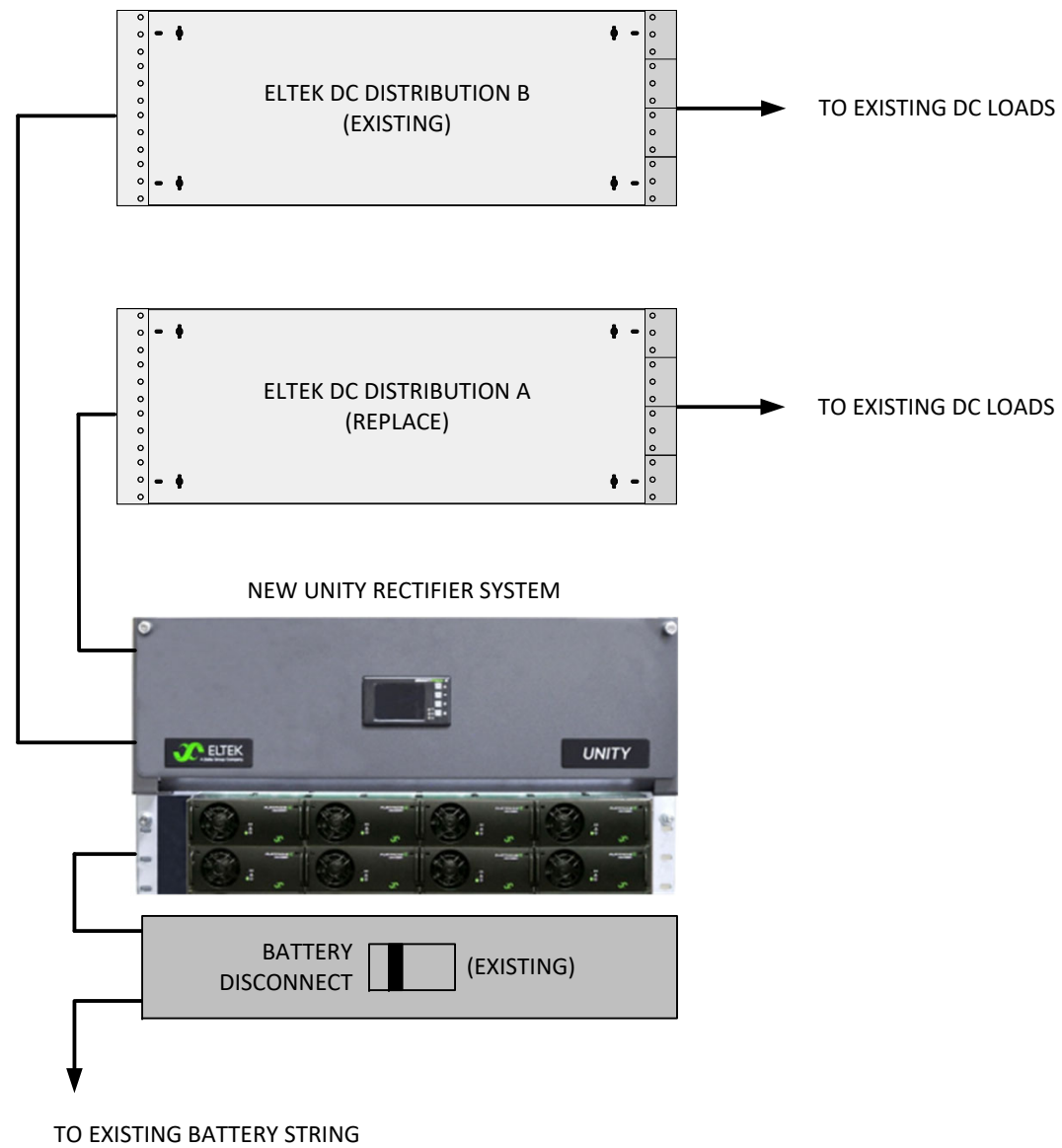
Load Return Connections: 1/4" studs on 5/8" center  
For 19" Distribution: Total 22 positions (one for CO ground)


Load Hot Connections: 1/4" studs on 5/8" center  
For 19" Distribution: Total 21 positions



	KITSAP 911		KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG				MODULAR HE 15U DC AUX. DISTRIBUTION PANELS					
DATE	7-AUG-2023	DWG#	K911-DC-10130		SHEET	6 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE							

# UNITY FLATPACK2 DETAILS UNITY OVERVIEW



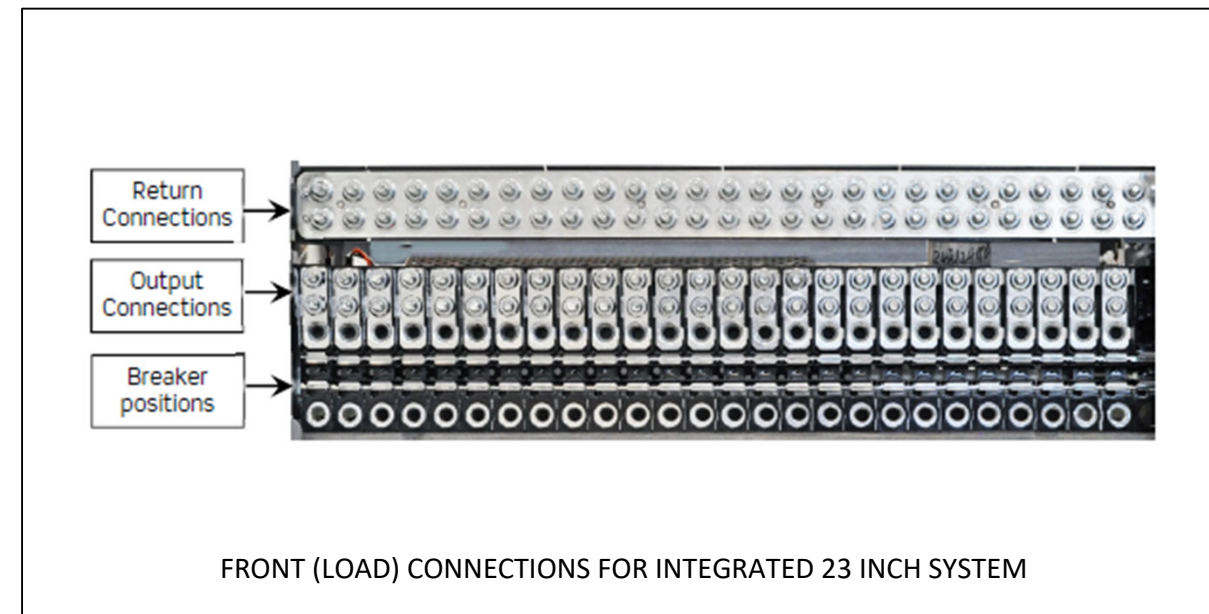
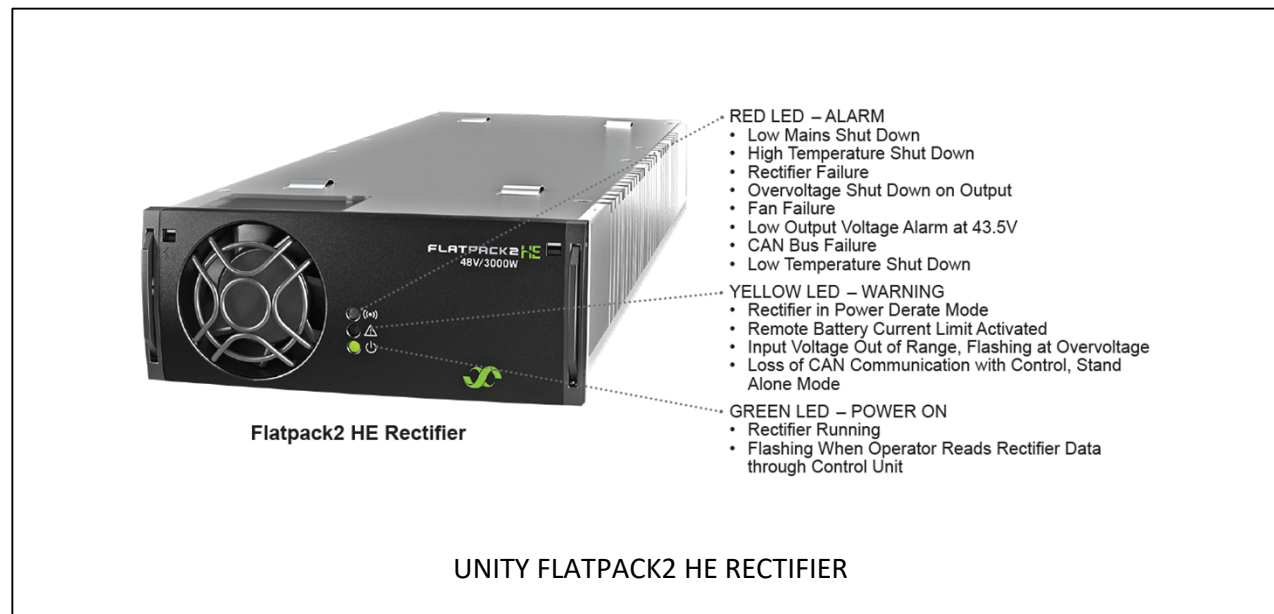
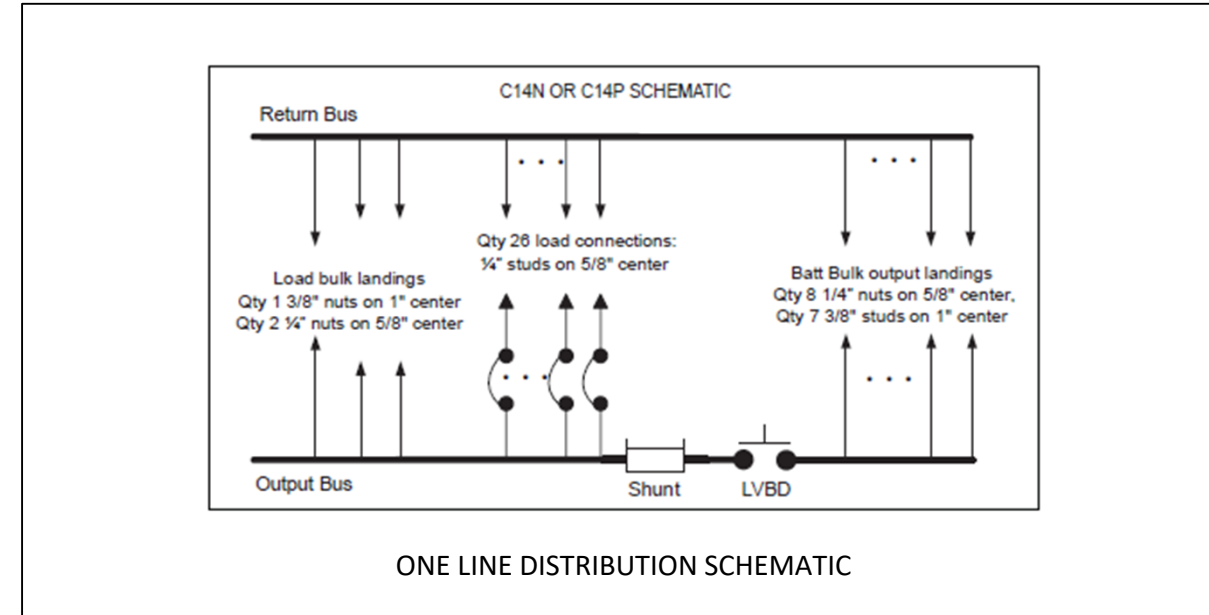
	KITSAP 911		KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG				UNITY FLATPACK2 DETAILS UNITY OVERVIEW					
DATE	7-AUG-2023	DWG#	K911-DC-10200							
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE		SHEET	7 OF 64	SIZE	FINAL	-	-



# UNITY FLATPACK2 DETAILS

## UNITY RECTIFIER AND DISTRIBUTION

BATTERY STRING(S) AND EXISTING DC DISTRIBUTION NOT SHOWN.

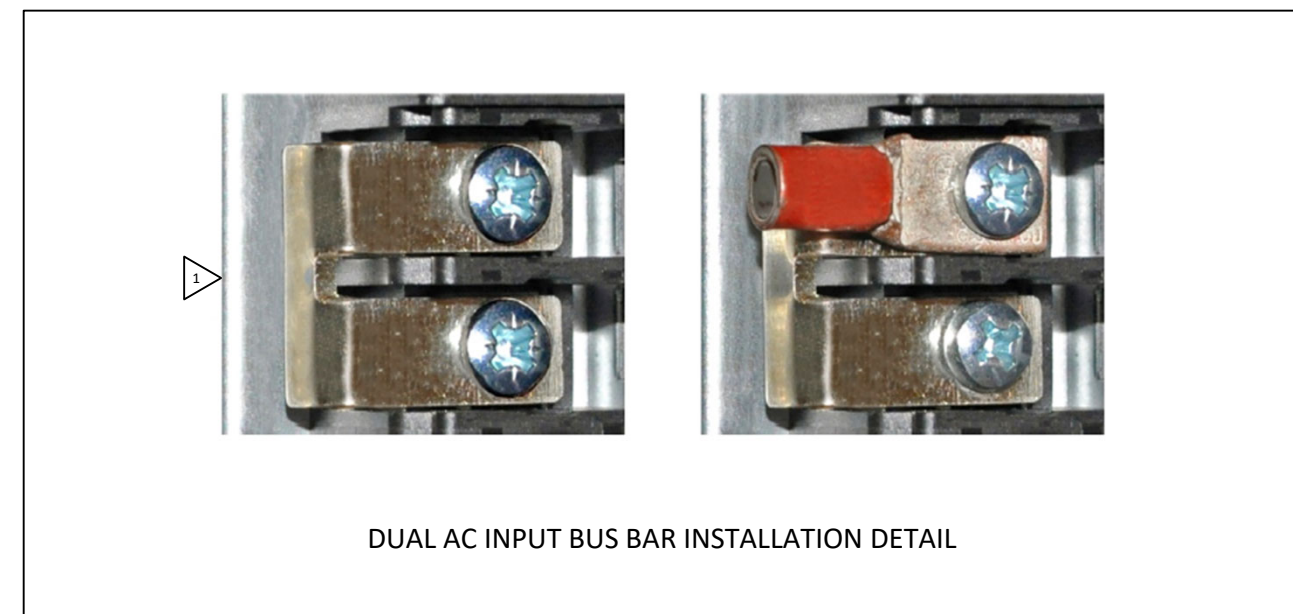
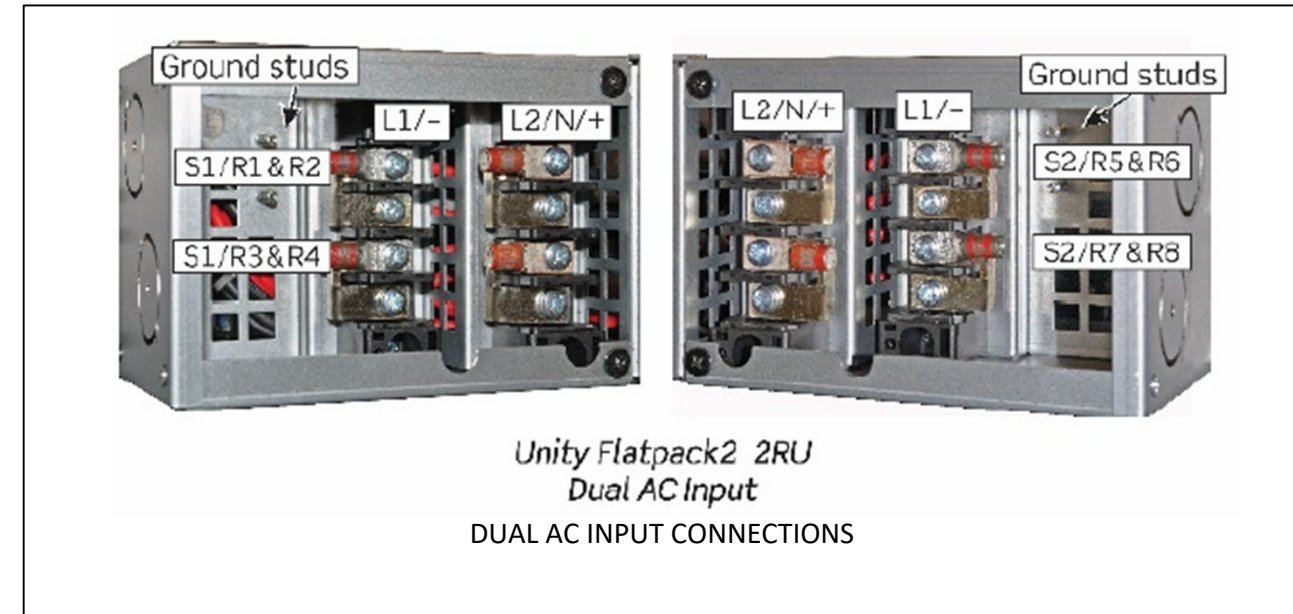
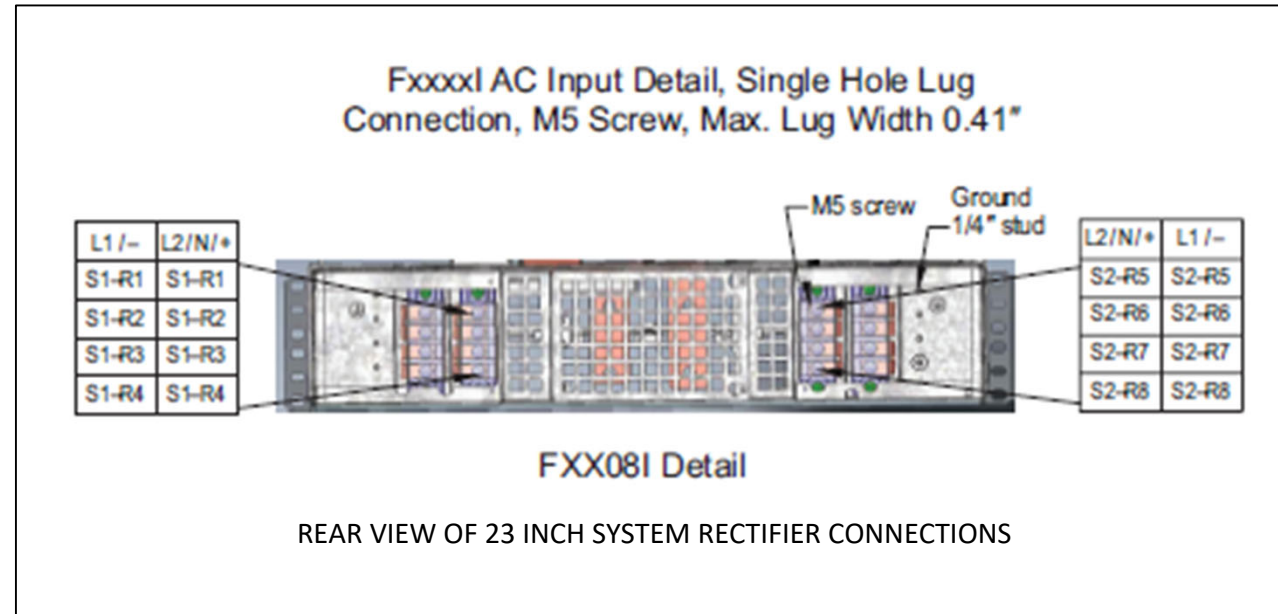


**FLAG NOTES:**

1. UNITY IS SHOWN WITH 8 RECTIFIERS. WITH THE EXCEPTION OF GOLD MOUNTAIN, ALL SITES WILL ONLY HAVE 4 RECTIFIERS INSTALLED WITH 4 UNUSABLE SLOTS.

	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS						
	WWW.KITSAP911.ORG	DATE	7-AUG-2023	DWG#	K911-DC-10210					
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE		SHEET	8 OF 64	SIZE	FINAL	-	-

# UNITY FLATPACK2 DETAILS AC POWER CONNECTIONS

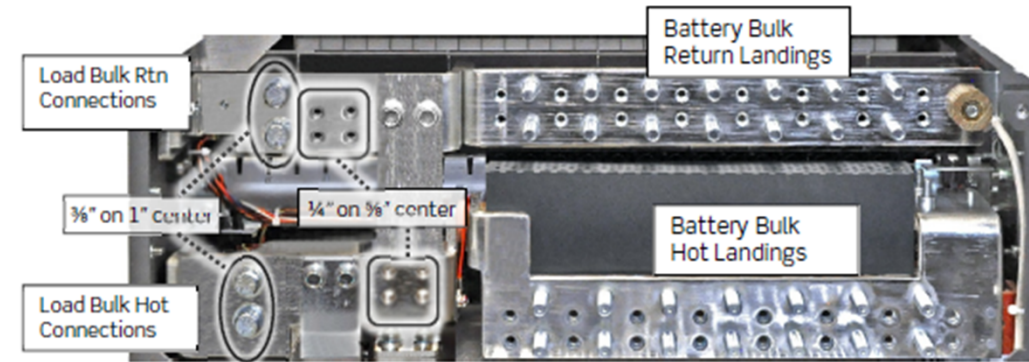
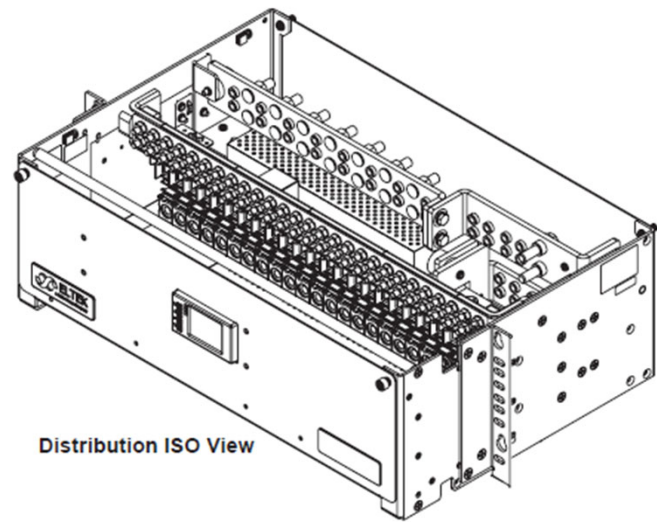


**FLAG NOTES:**


1. CONTRACTOR MUST FOLLOW MANUFACTURER'S INSTRUCTION TO INSTALL BUS BARS FOR MAKING DUAL FEED INPUT TERMINAL BLOCK CONNECTIONS (SEE FIGURE 37 IN ELTEK INSTALLATION GUIDE REV 3). EXTEND EXISTING 30A 2 POLE CIRCUITS TO NEW UNITY RECTIFIER.

	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG	DATE	7-AUG-2023	DWG#	K911-DC-10220				
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE	SHEET	9 OF 64	SIZE	FINAL	-	-

# UNITY FLATPACK2 DETAILS BATTERY CONNECTIONS



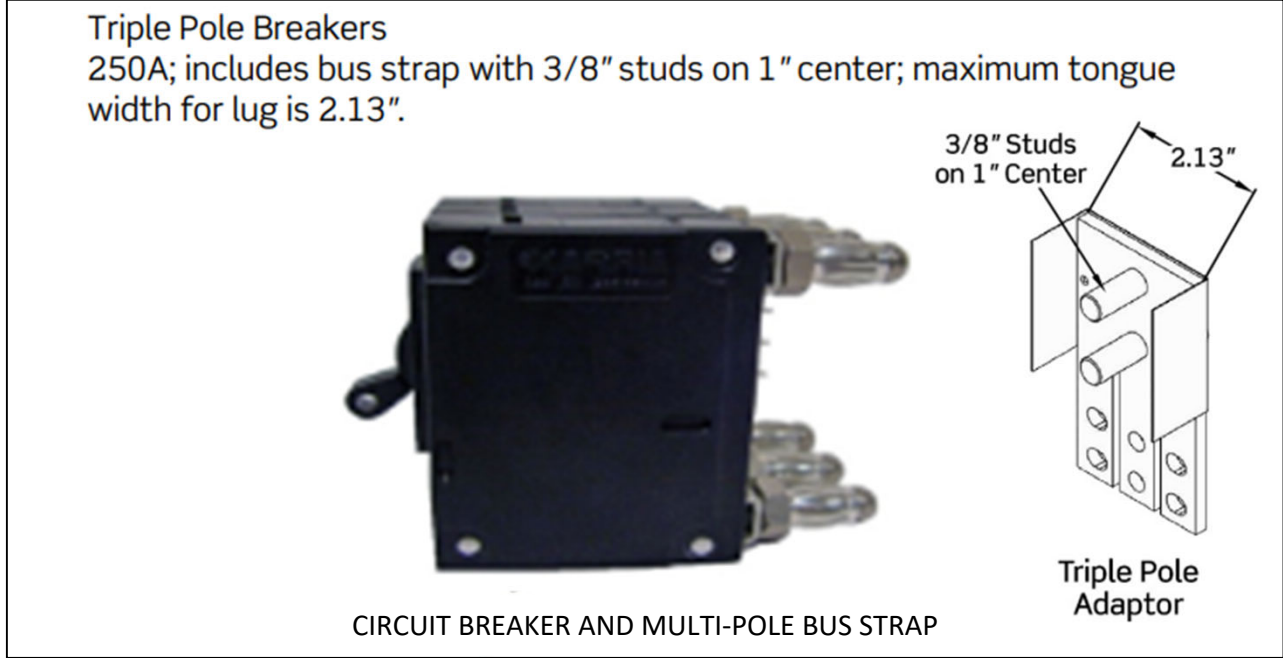
REAR CONNECTION FOR 23 INCH SYSTEM


 <b>KITSAP</b> <small>CENCOM</small>	KITSAP 911	<small>KITSAP 911                  911 CARVER ST.                  BREMERTON, WA 98312                  360 307-5800</small>		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS				
	<small>WWW.KITSAP911.ORG</small>	DATE 7-AUG-2023	DWG# K911-DC-10230	UNITY FLATPACK2 DETAILS BATTERY CONNECTIONS				
PREPARED BY R. SCOTT PEABODY	SCALE NONE	SHEET 10 OF 64	SIZE FINAL	-	-	-	-	



# UNITY FLATPACK2 DETAILS

## BREAKER FOR CONNECTION TO EXISTING DC DISTRIBUTION



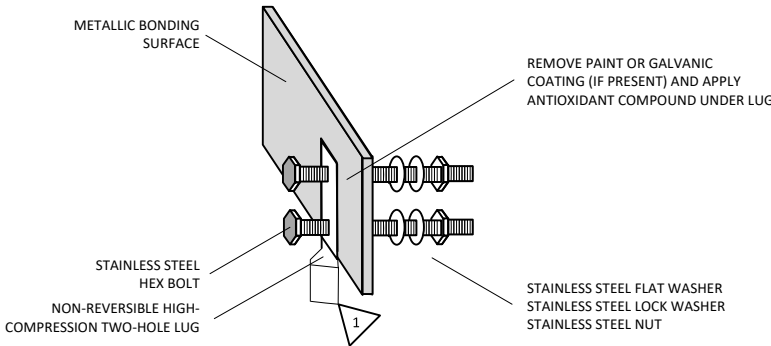
 <b>KITSAP</b> <small>CENCOM</small>	<b>KITSAP 911</b>	<small>KITSAP 911            911 CARVER ST.            BREMERTON, WA 98312            360 307-5800</small>		<small>KITSAP 911 – CENCOM            DC POWER SYSTEMS REPLACEMENTS</small>						
	<small>WWW.KITSAP911.ORG</small>			<small>UNITY FLATPACK2 DETAILS            BREAKER FOR CONNECTION TO EXISTING DC DISTRIBUTION</small>						
<small>DATE</small>	7-AUG-2023	<small>DWG#</small>	K911-DC-10240		<small>SHEET</small>	11 OF 64	<small>SIZE</small>	FINAL	-	-
<small>PREPARED BY</small>	R. SCOTT PEABODY	<small>SCALE</small>	NONE							

# CURRENT CARRYING AND GROUNDING LUG CONNECTIONS ALL SITES

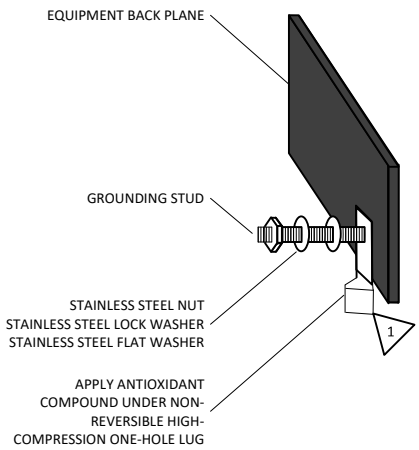
**FLAG NOTES:**


- 1. LUGS WITH INSPECTION WINDOW ARE PREFERRED.

**TWO HOLE LUG CONNECTIONS TO  
EQUIPMENT OR GROUND BUS BAR**



**ONE HOLE LUG CONNECTIONS TO  
EQUIPMENT GROUNDING STUD**



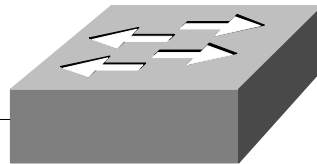
	<b>KITSAP 911</b> <small>WWW.KITSAP911.ORG</small>	<small>KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800</small>		<b>KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS</b>				
	<small>DATE</small> 7-AUG-2023	<small>DWG#</small> K911-DC-10300	<b>CURRENT CARRYING AND GROUND LUG CONNECTIONS ALL SITES</b>					
<small>PREPARED BY</small> R. SCOTT PEABODY	<small>SCALE</small> NONE	<small>SHEET</small> 12 OF 64	<small>SIZE</small> FINAL	-	-	-	-	

# IP DIAGRAM ALL SITES

ELTEK UNITY RECTIFIER



CAT 6 ETHERNET



PORT:

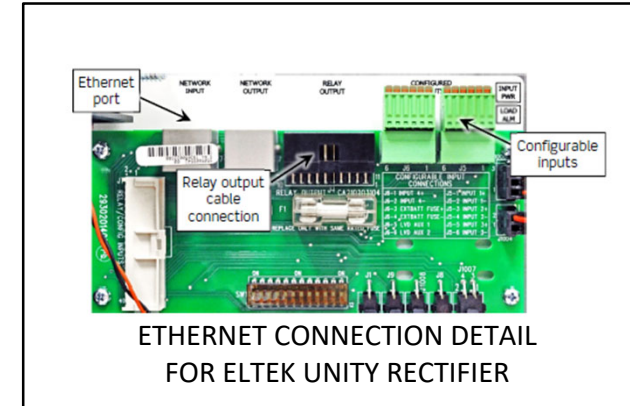
ADDRESS: nnn.nnn.nnn.nnn/nn  
GATEWAY:

## FLAG NOTES:

1. CONTRACTOR MUST FURNISH AND INSTALL CAT 6 ETHERNET CABLE WITH PLENUM RATED JACKET BETWEEN THE RECTIFIER CONTROLLER AND THE SITE ETHERNET SWITCH. CABLE MUST BE CUT TO LENGTH, TERMINATED, AND TESTED FOR MISWIRING, OPENS, AND SHORTS. ETHERNET CABLE DOES NOT NEED TO BE CERTIFIED. KITSAP 911 WILL CONFIGURE ETHERNET SWITCH PORT AND MAKE THE CONNECTION TO THE SWITCH FOR VERIFICATION TESTING. CABLE MUST NOT BE ATTACHED TO EXISTING CONDUIT.

SITE	IP ADDRESS	DEFAULT GATEWAY	SWITCH PORT	RECTIFIER RACK LOCATION	SWITCH RACK LOCATION	APPROXIMATE LENGTH OF ETHERNET CABLE (FT.)
CC	ASSIGNED <sup>1</sup>	ASSIGNED <sup>1</sup>	TBD	ELEC. ROOM CENTER AISLE	ETHERNET JACK LOCATED IN ELECTRICAL ROOM	< 50
E30	ASSIGNED <sup>1</sup>	ASSIGNED <sup>1</sup>	TBD	B1	A4	< 50
GM	ASSIGNED <sup>1</sup>	ASSIGNED <sup>1</sup>	TBD	STANDALONE CABINET	A7	< 100
HR	ASSIGNED <sup>1</sup>	ASSIGNED <sup>1</sup>	TBD	B1	A7	< 50
LH	ASSIGNED <sup>1</sup>	ASSIGNED <sup>1</sup>	TBD	B1	A3	< 50
MO	ASSIGNED <sup>1</sup>	ASSIGNED <sup>1</sup>	TBD	B1	A4	< 50
NH	ASSIGNED <sup>1</sup>	ASSIGNED <sup>1</sup>	TBD	B1	A5	< 50
OH	ASSIGNED <sup>1</sup>	ASSIGNED <sup>1</sup>	TBD	B1	A4	< 50
PU	ASSIGNED <sup>1</sup>	ASSIGNED <sup>1</sup>	TBD	B1	A3	< 50
SP	ASSIGNED <sup>1</sup>	ASSIGNED <sup>1</sup>	TBD	B1	A6	< 50
SU	ASSIGNED <sup>1</sup>	ASSIGNED <sup>1</sup>	TBD	B1	A5	< 50
TL	ASSIGNED <sup>1</sup>	ASSIGNED <sup>1</sup>	TBD	B1	A4	< 50

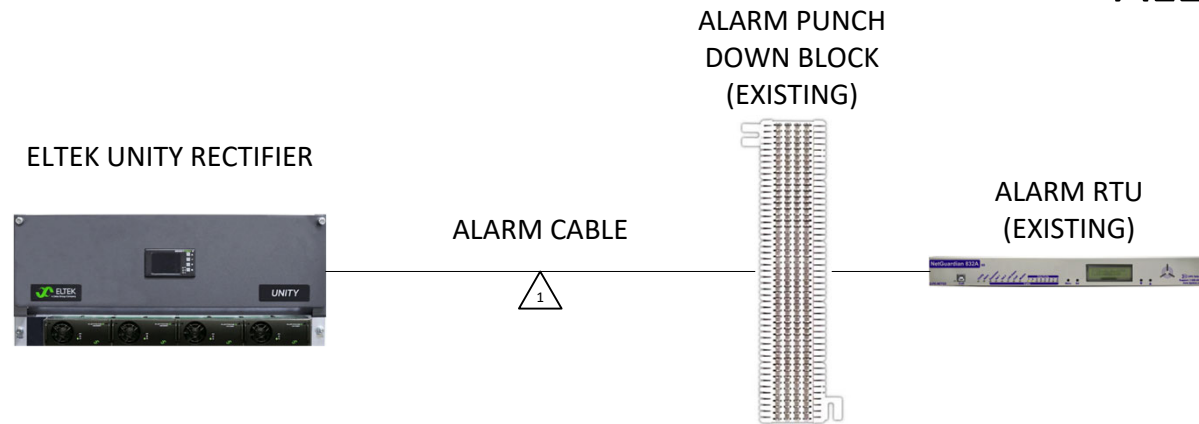
<sup>1</sup>IP ADDRESS, SUBNET MASK, AND DEFAULT GATEWAY SETTINGS WILL BE PROVIDED AFTER CONTRACT SIGNATURE



	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG			IP DIAGRAM ALL SITES					
DATE	7-AUG-2023	DWG#	K911-DC-10350						
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE	SHEET	13 OF 64	SIZE	FINAL	-	-



# RECTIFIER ALARM DIAGRAM ALL SITES (1 OF 2)



SITE	RECTIFIER RACK LOCATION	ALARM 66 BLOCK LOCATION	APPROX. LENGTH OF ALARM CABLE (FT.)
CC	ELEC. ROOM CENTER AISLE	EQMT. ROOM WALL	< 100
E30	B1	WALL	< 50
GM	STANDALONE CABINET	WALL	< 100
HR	B1	WALL	< 50
LH	B1	WALL	< 50
MO	B1	WALL	< 50
NH	B1	WALL	< 50
OH	B1	WALL	< 50
PU	A9	WALL	< 50
SP	B1	WALL	< 50
SU	B1	WALL	< 50
TL	B1	WALL	< 50

**Table 2 - Alarm Cable Color Code**

Alarm Relay	Alarm Name	Designation	Wire Color
1.1	Major Alarm	NC	Orange/White Stripe
		C	Orange
		NO	Orange/Black Stripe
1.2	Minor Alarm	NC	Red/White Stripe
		C	Red
		NO	Red/Black Stripe
1.3	High Voltage	NC	Green/White Stripe
		C	Green
		NO	Green/Black Stripe
1.4	Low Voltage	NC	Yellow/Stripe
		C	Yellow
		NO	Yellow/Black Stripe
1.5	Rectifier fail	NC	Light Blue/White Stripe
		C	Light Blue
		NO	Light Blue/Black Stripe
1.6	Very Low Voltage and Distribution Alarm	NC	Tan/White Stripe
		NO	Tan
		NC	Tan/Black Stripe

**Note:** Normally Closed (NC) means that the relay is closed when the controller is powered and there is no alarm. Normally Open (NO) means that the relay is open when the controller is powered and there is no alarm. The relay will change state when either power is lost or an alarm is triggered.

**FLAG NOTES:**

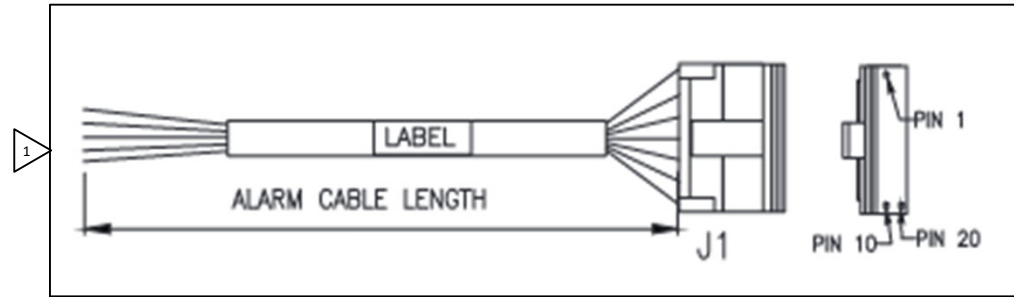
- 1. CONTRACTOR MUST FURNISH AND INSTALL ALARM CABLE BETWEEN THE RECTIFIER CONTROLLER AND THE EXISTING 66 TYPE BLOCK AND TEST PROPER OPERATION OF THE ALARMS WITH KITSAP 911.
- 2. EXISTING NORMALLY CLOSED RECTIFIER ALARMS (MAJOR, MINOR, AND CIRCUIT BREAKER ) MUST BE REMOVED AND REPLACED WITH NEW RECTIFIER ALARMS (MAJOR, MINOR, AND VERY LOW VOLTAGE AND DISTRIBUTION ALARM). VERIFY CORRECT OPERATION OF ALL ALARMS WITH KITSAP 911.

	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG			ALARM DIAGRAM ALL SITES (1 OF 2)					
DATE	7-AUG-2023	DWG#	K911-DC-10360	SHEET	14 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE						

# RECTIFIER ALARM DIAGRAM ALL SITES (2 OF 2)

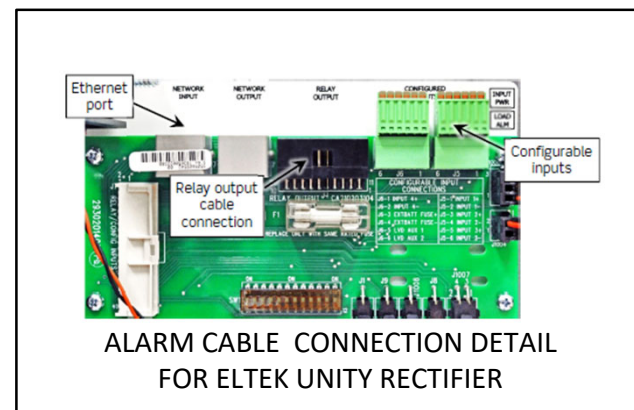
FLAG NOTES:

- 1. ALARM CABLE, 24 AWG SOLID, IS AVAILABLE IN 10', 50', AND 100' LENGTHS.



J1 Pin #	Wire Color	Wire Text Label	J1 Pin #	Wire Color	Wire Text Label
10	OR/WHT	A-NC	18	TAN/WHT	F-NC
8	OR/BLK	A-NO	20	TAN/BLK	F-NO
12	RED/WHT	B-NC	9	OR	A-C
14	RED/BLK	B-NO	13	RED	B-C
15	GRN/WHT	C-NC	16	GRN	C-C
17	GRN/BLK	C-NO	3	LT BL	E-C
4	LT BL/WHT	E-NC	6	YLW	D-C
2	LT BL/BLK	C-NO	19	TAN	F-C
7	YLW/WHT	D-NC	1	WHT	INPUT #5+
5	YLW/BLK	D-NO	11	BLK	INPUT #5-

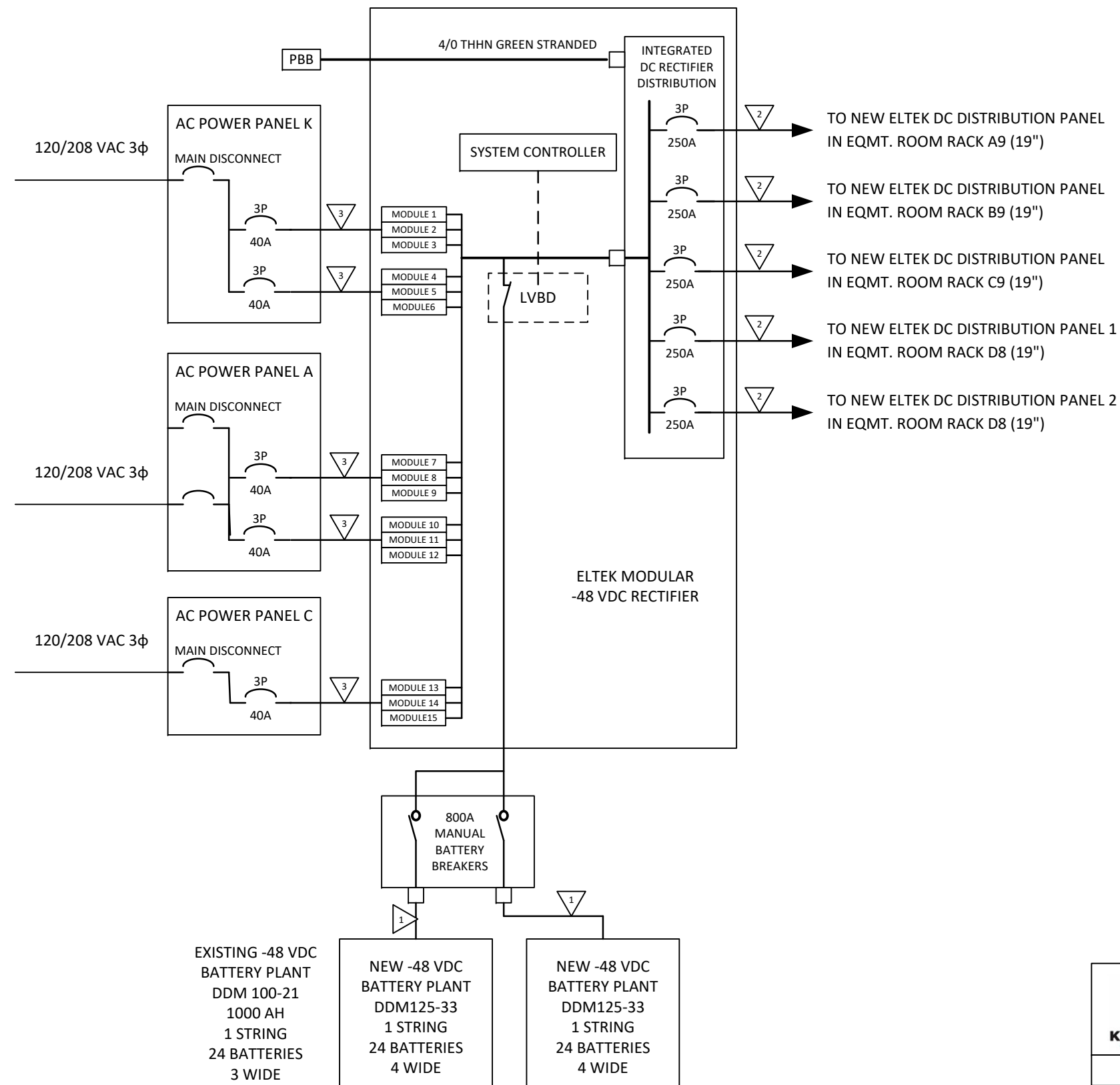
ALARM CABLE PINOUT FOR ELTEK UNITY RECTIFIER



ALARM CABLE CONNECTION DETAIL  
FOR ELTEK UNITY RECTIFIER


	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG				ALARM DIAGRAM ALL SITES (2 OF 2)				
DATE	7-AUG-2023	DWG#	K911-DC-10361						
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE	SHEET	15 OF 64	SIZE	FINAL	-	-

# 911 CARVER STREET (CENCOM) SITE DC POWER DIAGRAM



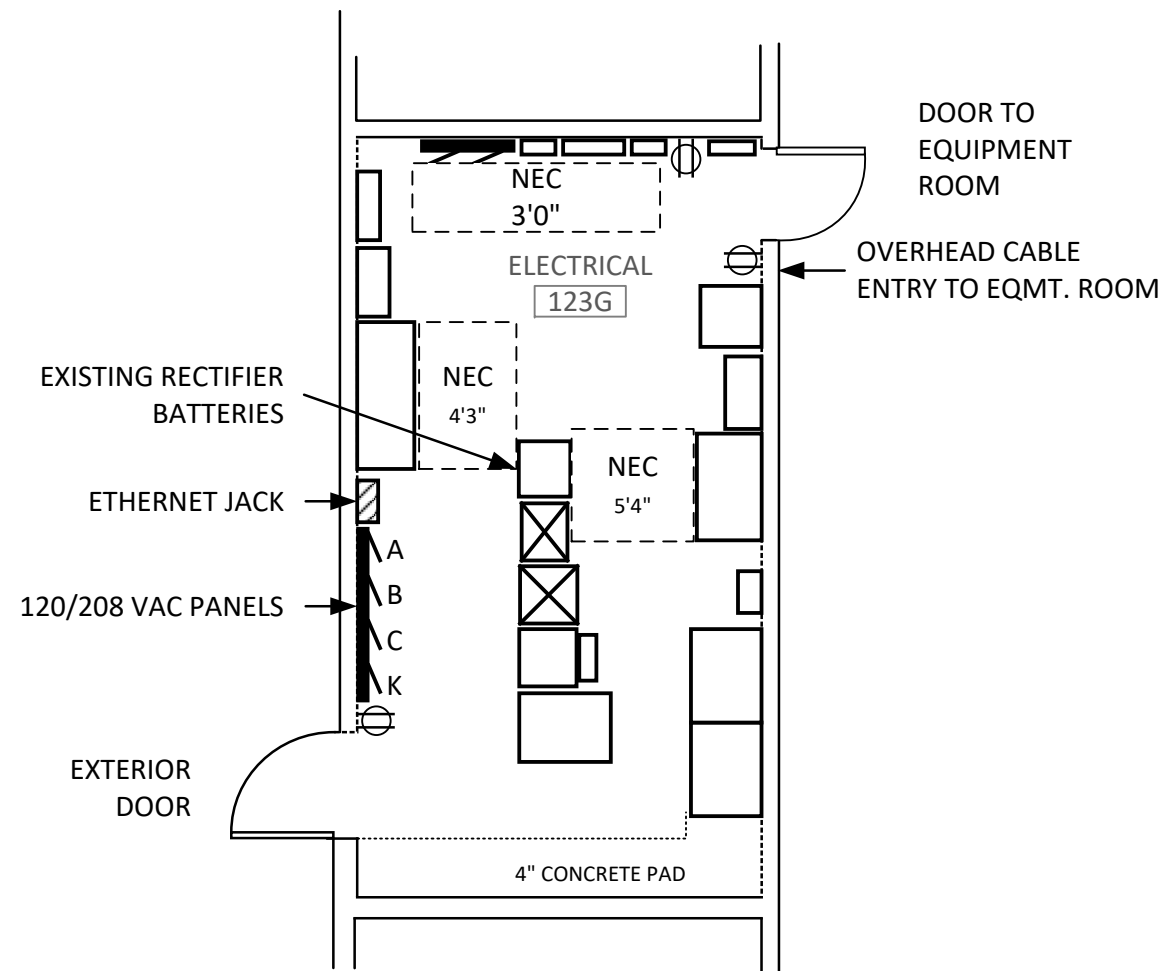
### FLAG NOTES:

1. CONTRACTOR IS RESPONSIBLE TO VERIFY, ADJUST, FURNISH, AND INSTALL BATTERY WIRES (PARALLEL 500MCM, COPPER, STRANDED, TRAY RATED, 90 DEGREE BLACK JACKET) BETWEEN RECTIFIER SYSTEM AND RACK MOUNTED 800A BREAKERS TO ENERSYS DDM125-33 BATTERY SYSTEM. KITSAP 911 TO PROVIDE OVERHEAD CABLE LADDER. EACH BATTERY WIRE CONNECTED TO THE NEGATIVE BATTERY POST MUST BE MARKED WITH A PERMANENT RED BAND ALONG THE PATH WAY AND AT EACH END.
2. CONTRACTOR IS RESPONSIBLE TO VERIFY, ADJUST, FURNISH AND INSTALL LOAD WIRE SIZING (4/0 AWG, COPPER, STRANDED, TRAY RATED, 90 DEGREE, BLACK JACKET) BETWEEN 250A TRIPLE POLE BULLET STYLE BREAKERS IN ELTEK MODULAR SYSTEM AND LOAD DISTRIBUTION PANELS ARE LOCATED IN THE ADJACENT EQUIPMENT ROOM. LOOP LENGTHS FOR CONDUCTORS BETWEEN RECTIFIER SYSTEM AND LOAD DISTRIBUTION PANELS ARE:  
 A9: 88 FT. (LOOP)  
 B9: 104 FT. (LOOP)  
 C9: 120 FT. (LOOP)  
 D8 PANELS 1 AND 2: 140 FT (LOOP)
3. CONTRACTOR MUST FURNISH AND INSTALL 3P 40A BREAKERS, CONDUCTORS, CONDUIT, FITTINGS, AND OTHER HARDWARE AS NEEDED BETWEEN THE 120/208 VAC 3φ PANELS AND ELTEK MODULAR RECTIFIER SYSTEM.

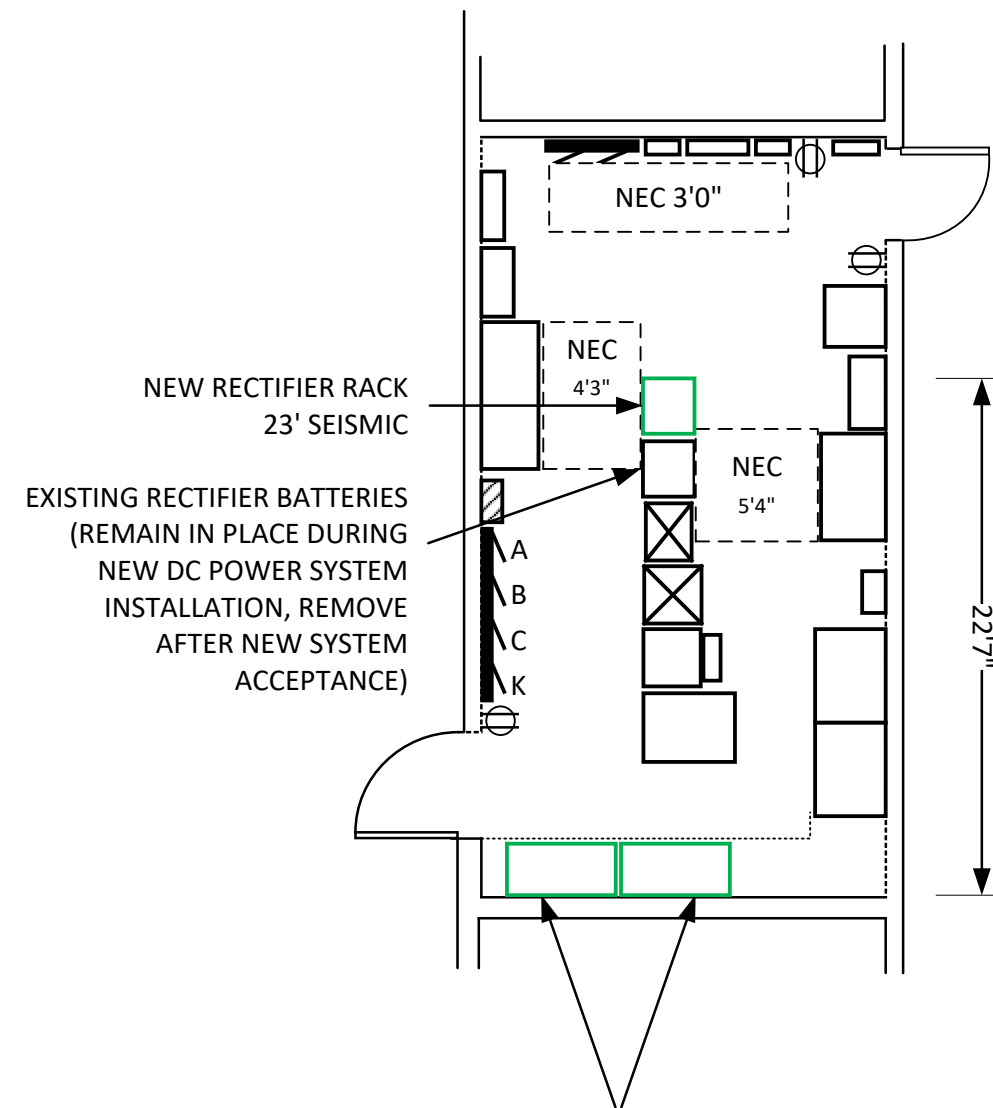
	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG		911 CARVER ST (CENCOM) SITE DC POWER DIAGRAM						
DATE	7-AUG-2023	DWG#	K911-DC-10400	SHEET	16 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE						

# KITSAP 911 – CENCOM ELECTRICAL ROOM FLOOR PLAN

EXISTING ROOM LAYOUT




NEW ROOM LAYOUT



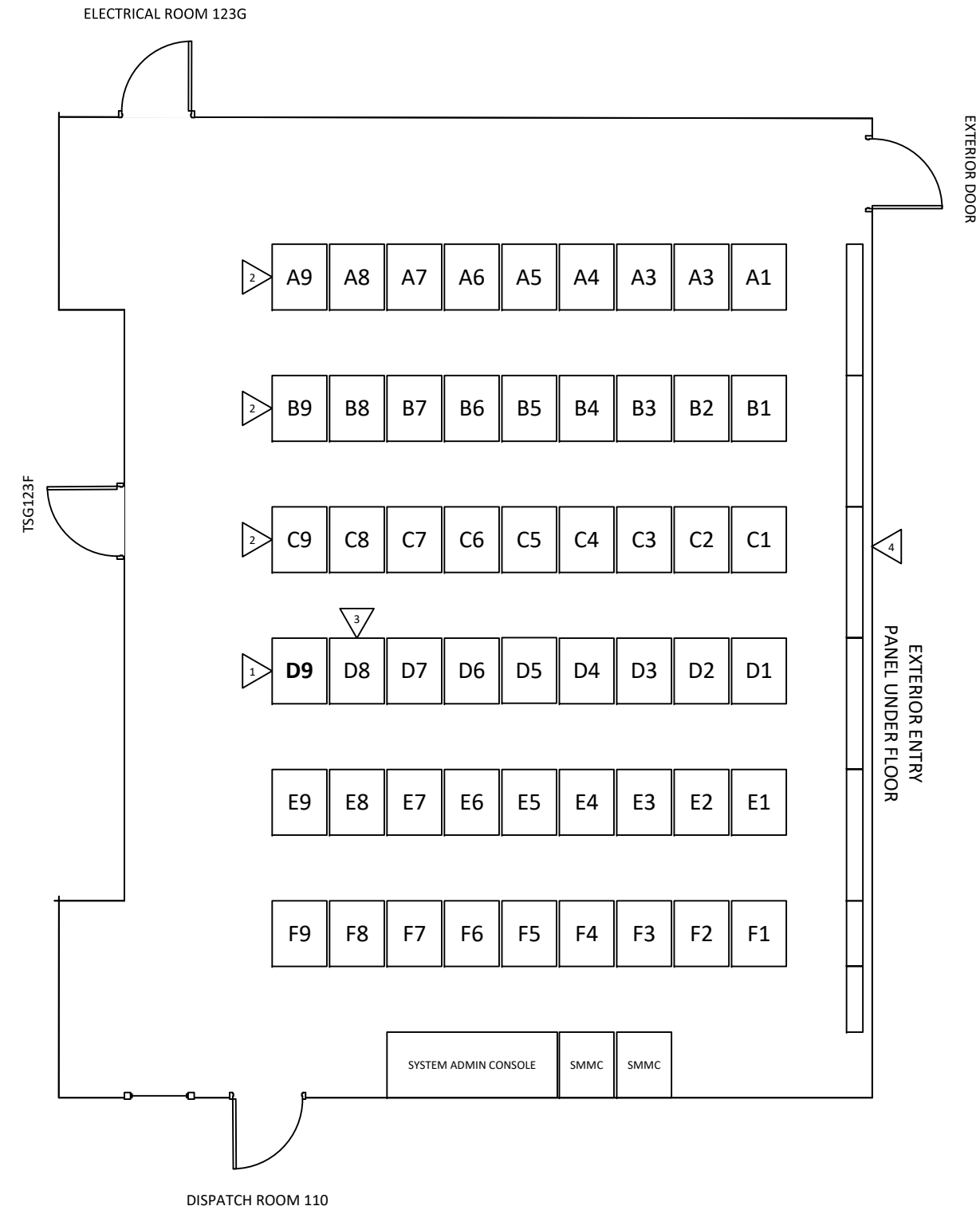
RELEVANT DIMENSIONS

ROOM DIMENSIONS: 17' 8" W X 32' 8" H  
 EXISTING RECTIFIER BATTERIES: 2'3" D X 2'5" W  
 NEC CLEARANCE BETWEEN BATTERIES AND UPS: 5' 4"  
 NEC CLEARANCE FOR UTIL. POWER AND BATTERIES: 4'3"


	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM UPS REPLACEMENT					
	WWW.KITSAP911.ORG			911 CARVER ST (CENCOM) SITE ELECTRICAL ROOM FLOOR PLAN					
DATE	7-AUG-2023	DWG#	K911-DC-104	SHEET	17 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	1/8" = 1' 0"						



# 911 CARVER STREET (CENCOM) SITE EQUIPMENT ROOM FLOOR PLAN (1 OF 2)




Row	A	Equipment	Row	D	Equipment
Rack	1		Rack	1	Dehydrator
Rack	2		Rack	2	Microstar MW / E30th / WSP MPLS
Rack	3	Purvis	Rack	3	Constellation MW / VP&Loop Switch
Rack	4	Purvis	Rack	4	Constellation MW / GM & IG Ring
Rack	5	Purvis	Rack	5	Eclipse MW
Rack	6	ACOM	Rack	6	
Rack	7	ACOM	Rack	7	
Rack	8	MAX & MIS	Rack	8	
Rack	9	NG911 ESI/NET	Rack	9	-48VDC Rectifiers and Distribution
Row	B		Row	E	
Rack	1		Rack	1	Cable Storage
Rack	2		Rack	2	SV Sys
Rack	3	ES Chat	Rack	3	Security
Rack	4	JPS RX Voters	Rack	4	ShoreTel Max & Switches
Rack	5	JPS RX Voters	Rack	5	Switches
Rack	6	JPS RX Voters	Rack	6	Cat6 Patch Panel
Rack	7	Simulcast Dist. AGC M/S	Rack	7	Cat6 Patch Panel
Rack	8	Harris Channel Bank	Rack	8	Cat6 Patch Panel
Rack	9	Harris Channel Bank	Rack	9	Fiber Patch Panel
Row	C		Row	F	
Rack	1	UHF Antenna Combiner	Rack	1	Harrison Hospital
Rack	2	VHF Antenna Combiner	Rack	2	Harrison Hospital
Rack	3	VHF Antenna Combiner	Rack	3	Kitsap IS
Rack	4	VHF Antenna Combiner	Rack	4	Kitsap IS
Rack	5	Radio Base Stations	Rack	5	Servers
Rack	6	Radio Base Stations	Rack	6	Servers
Rack	7	Radio Base Stations	Rack	7	Servers
Rack	8	Convex Simulcast	Rack	8	Servers
Rack	9	Site Alarm / WUG / Netclock	Rack	9	Servers

	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG			911 CARVER ST (CENCOM) SITE EQUIPMENT ROOM FLOOR PLAN (1 OF 2)					
DATE	7-AUG-2023	DWG#	K911-DC-10420	SHEET	18 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE						

# 911 CARVER STREET (CENCOM) SITE EQUIPMENT ROOM FLOOR PLAN (2 OF 2)

**FLAG NOTES:**

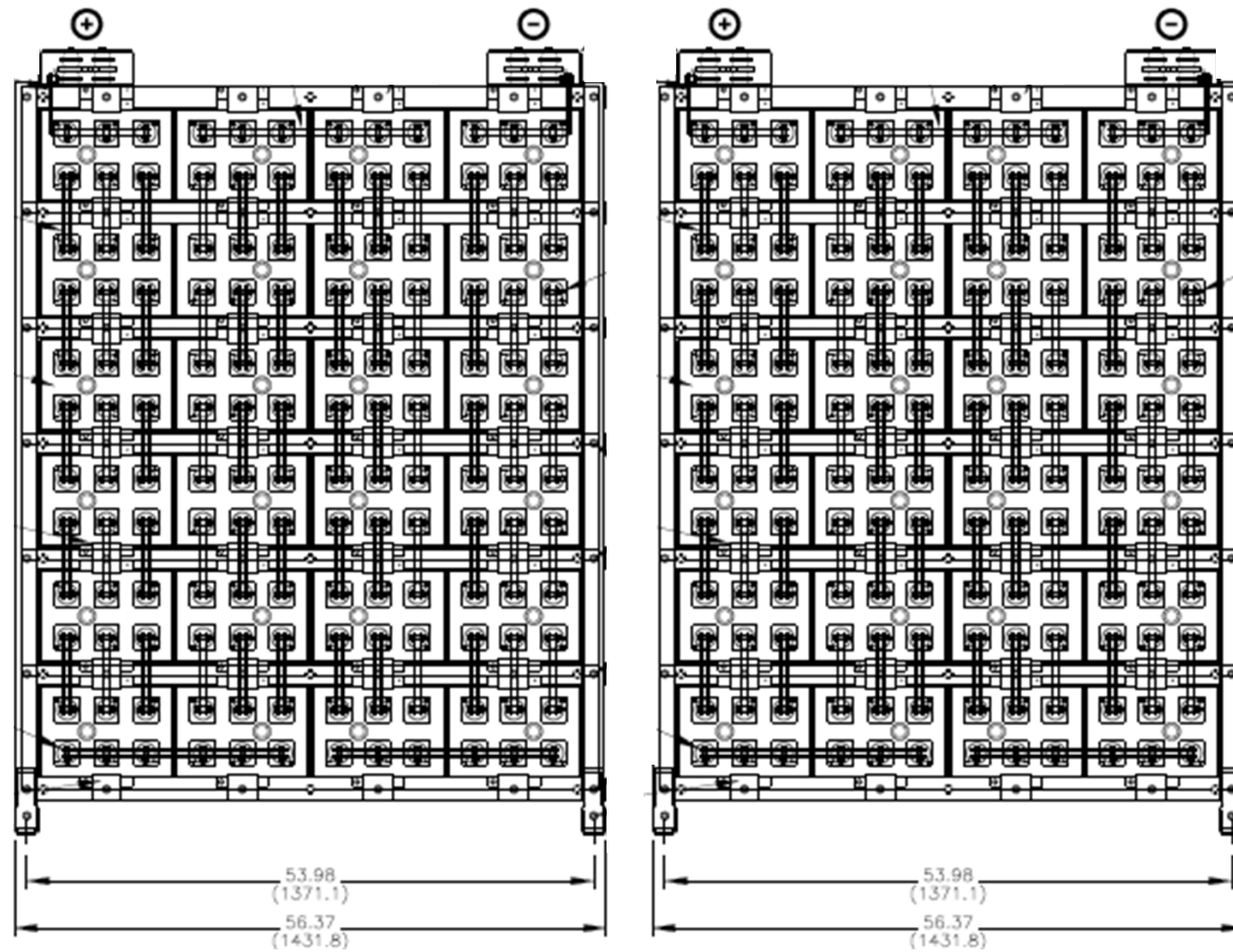
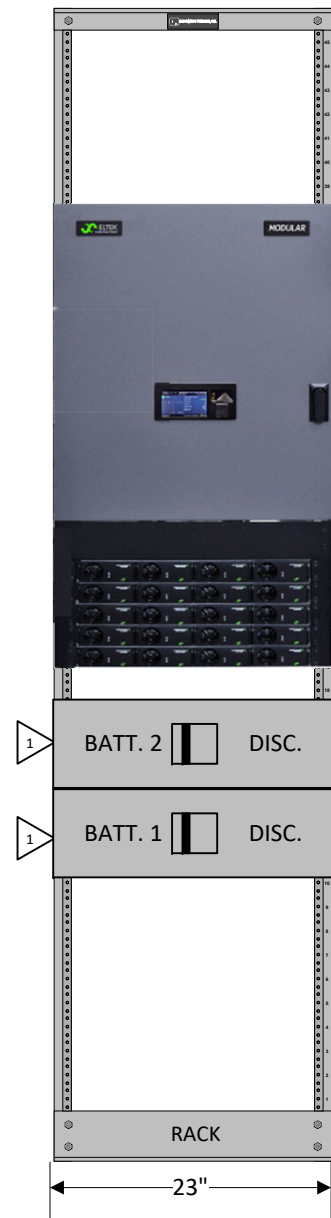
- ▶ 1. EXISTING ELTEK RECTIFIER SHELF AND DISTRIBUTION PANELS ARE INSTALLED IN ROW D RACK 9 (D9). D9 IS THE ONLY 23" RACK IN THE EQUIPMENT ROOM; ALL OTHER RACKS IN THE EQUIPMENT ROOM ARE 19" RACKS.
- ▶ 2. FURNISH AND INSTALL A 19" DISTRIBUTION PANEL IN RACKS A9, B9, AND C9. KITSAP 911 WILL MAKE ROOM FOR REPLACEMENT DISTRIBUTION PANELS PRIOR TO CONTRACTOR INSTALLATION.
- ▶ 3. FURNISH AND INSTALL TWO 19" DISTRIBUTION PANELS IN RACK D8. KITSAP 911 WILL MAKE ROOM FOR REPLACEMENT DISTRIBUTION PANELS PRIOR TO CONTRACTOR INSTALLATION.
- ▶ 4. LOCATION OF EXISTING ALARM 66 BLOCK. CONTRACTOR TO TERMINATE RECTIFIER ALARM ON TYPE 66 BLOCK ON EXISTING ALARM BLOCK.


	<b>KITSAP 911</b>	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS				
	<a href="http://WWW.KITSAP911.ORG">WWW.KITSAP911.ORG</a>	DATE 7-AUG-2023	DWG# K911-DC-10421	911 CARVER ST (CENCOM) SITE EQUIPMENT ROOM FLOOR PLAN (2 OF 2)				
PREPARED BY R. SCOTT PEABODY	SCALE NONE	SHEET 19 OF 64	SIZE FINAL	-	-	-	-	

# 911 CARVER STREET (CENCOM) SITE ELECTRICAL ROOM LAYOUTS

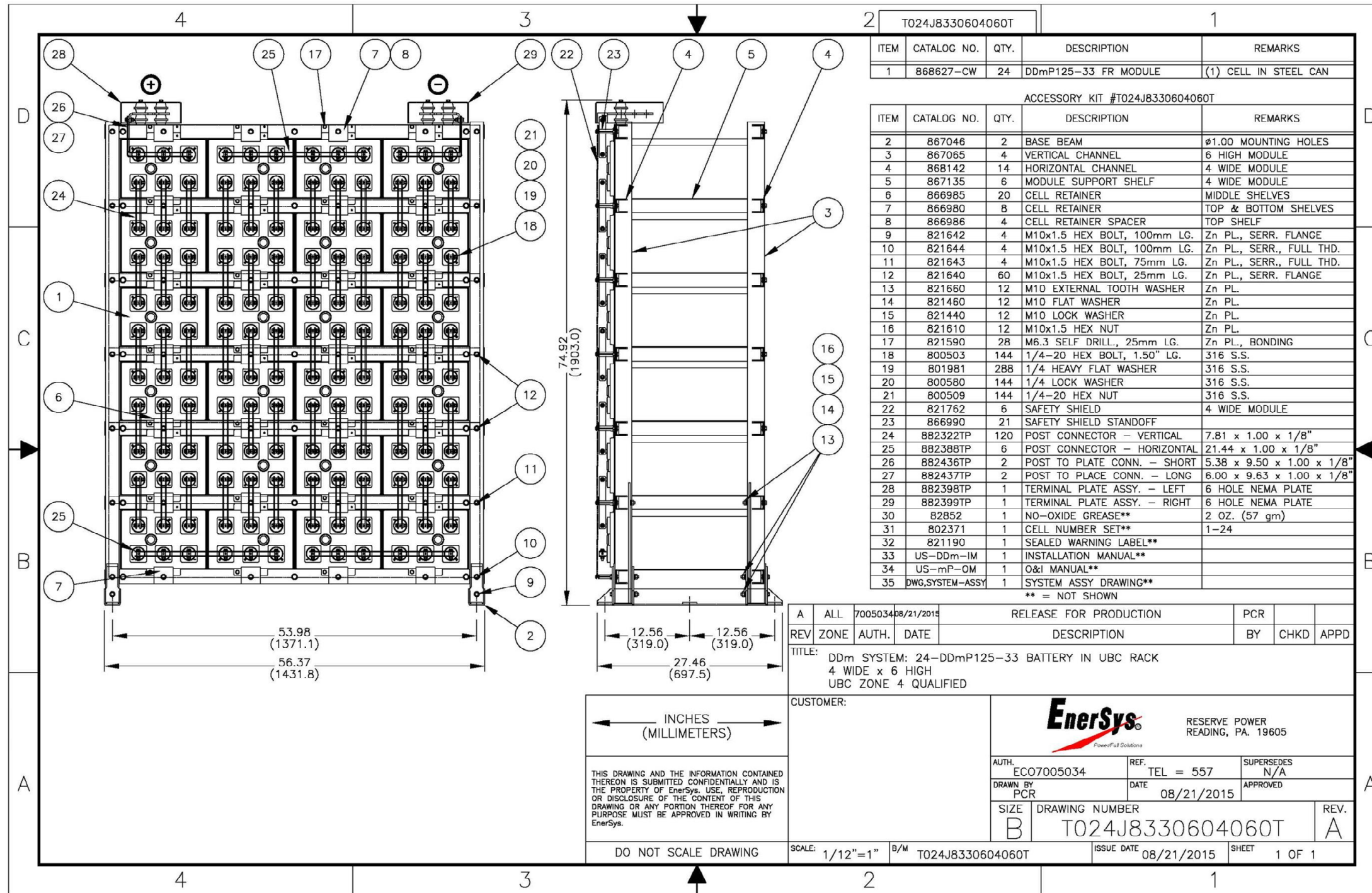
**FLAG NOTES:**

- 1. FURNISH AND INSTALL ELTEK 800A PANEL MOUNTED BATTERY BREAKERS ELTEK PART NUMBER USKIT-00023 FOLLOWING MANUFACTURER INSTRUCTIONS. INPUT AND OUTPUT CONNECTIONS USE TWO HOLE LUGS WITH 3/8" HOLES WITH 1" SPACING.



	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS						
	<a href="http://WWW.KITSAP911.ORG">WWW.KITSAP911.ORG</a>	DATE	7-AUG-2023	DWG#	K911-DC-10430					
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE		SHEET	20 OF 64	SIZE	FINAL	-	-

# 911 CARVER STREET (CENCOM) SITE BATTERY DIAGRAM



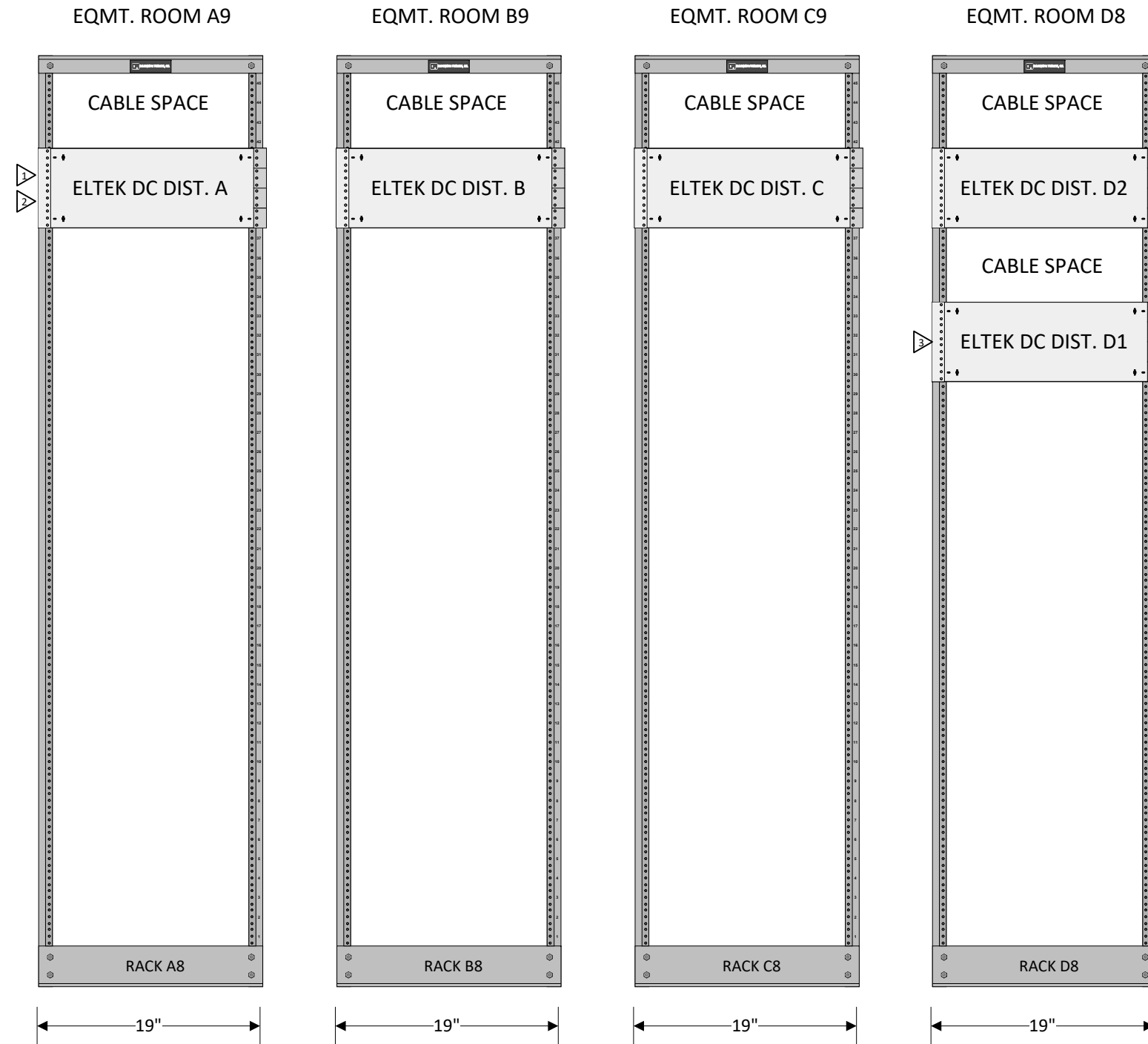
A	ALL	7005034	08/21/2015	RELEASE FOR PRODUCTION	PCR	
REV	ZONE	AUTH.	DATE	DESCRIPTION	BY	CHKD APPD
TITLE: DDm SYSTEM: 24-DDmP125-33 BATTERY IN UBC RACK 4 WIDE x 6 HIGH UBC ZONE 4 QUALIFIED						
CUSTOMER:						
				RESERVE POWER READING, PA. 19605		
AUTH.		REF.		SUPERSEDES		
EC07005034		TEL = 557		N/A		
DRAWN BY		DATE		APPROVED		
PCR		08/21/2015				
SIZE		DRAWING NUMBER		REV.		
B		T024J8330604060T		A		
DO NOT SCALE DRAWING				SCALE: 1/12"=1"	B/M	T024J8330604060T
				ISSUE DATE	08/21/2015	SHEET 1 OF 1

NOT TO SCALE

	<b>KITSAP 911</b>	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 - CENCOM DC POWER SYSTEMS REPLACEMENTS			
	WWW.KITSAP911.ORG				911 CARVER ST. (CENCOM) SITE BATTERY DIAGRAM		
DATE	7-AUG-2023	DWG#	K911-DC-10440	SHEET	21 OF 64	SIZE	FINAL
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE				




# 911 CARVER STREET (CENCOM) SITE EQUIPMENT ROOM RACK LAYOUTS

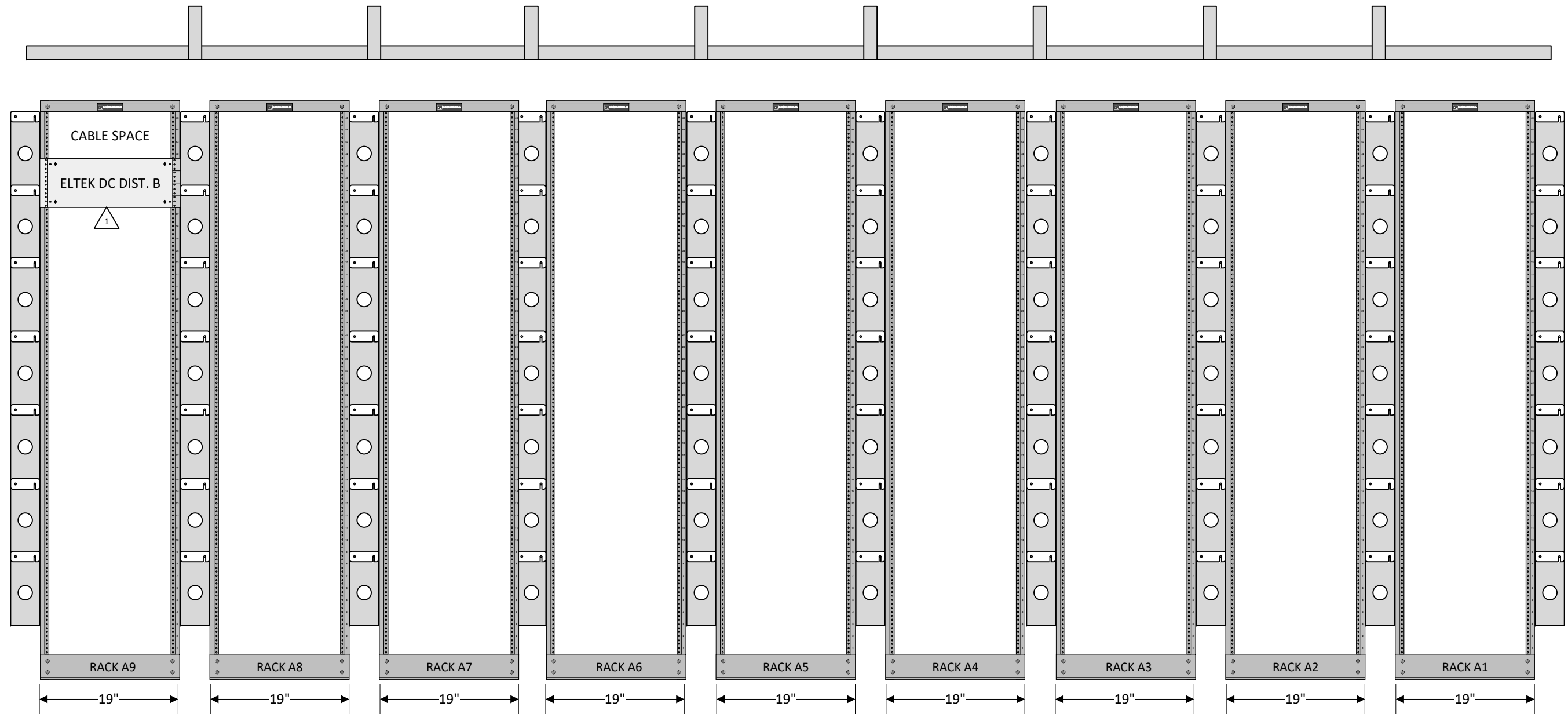


**FLAG NOTES:**

- ▶ 1. KITSAP 911 WILL MAKE SPACE AVAILABLE FOR NEW DISTRIBUTION (AND CABLE SPACE) PRIOR TO CONTRACTOR INSTALLATION.
- ▶ 2. CONTRACTOR MUST FURNISH AND INSTALL GROUNDING CONDUCTORS FOR ALL ELTEK DC POWER DISTRIBUTION PANELS FOLLOWING MANUFACTURER INSTRUCTIONS AND MOTOROLA R56 STANDARDS AND GUIDELINES.
- ▶ 3. CONTRACTOR MUST FURNISH AND INSTALL LOAD WIRE BETWEEN ELTEK MODULAR SYSTEM AND ELTEK DC DISTRIBUTION PANELS FOLLOWING MANUFACTURER INSTRUCTIONS, NEC (TRAY RATED CABLES), AND MOTOROLA R56 STANDARDS ARE GUIDELINES. ELTEK MODULAR SYSTEM IS LOCATED IN ELECTRICAL ROOM. LOAD DISTRIBUTION PANELS ARE LOCATED IN THE ADJACENT EQUIPMENT ROOM. LOOP LENGTHS FOR CONDUCTORS BETWEEN RECTIFIER SYSTEM AND LOAD DISTRIBUTION PANELS ARE:  
 A9: 88 FT. (LOOP)  
 B9: 104 FT. (LOOP)  
 C9: 120 FT. (LOOP)  
 D8 PANELS 1 AND 2: 140 FT (LOOP)


	<b>KITSAP 911</b>	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS						
	www.kitsap911.org			911 CARVER ST (CENCOM) EQUIPMENT ROOM RACK LAYOUTS						
DATE	7-AUG-2023	DWG#	K911-DC-10460		SHEET	22 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE							

# 911 CARVER STREET (CENCOM) SITE ROW A DC DISTRIBUTION

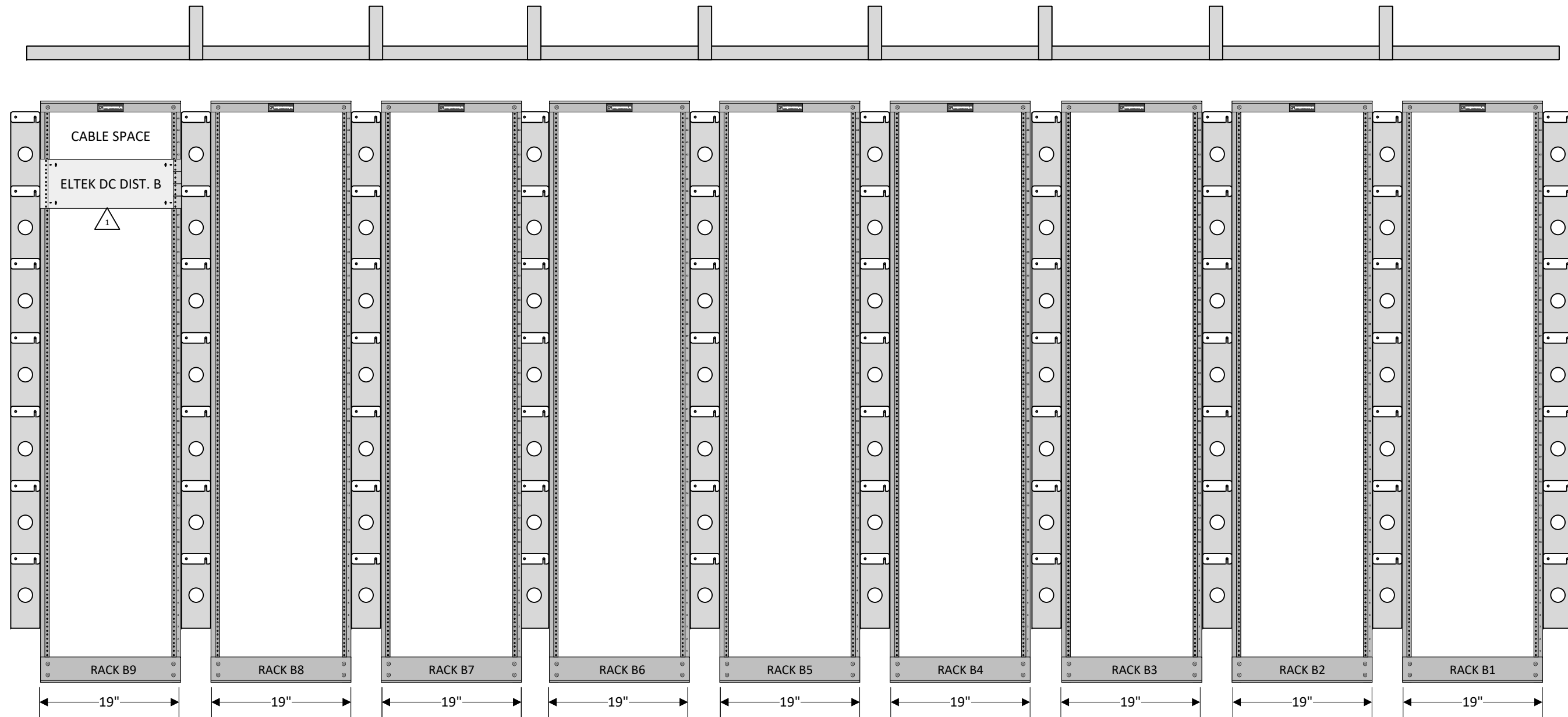


**FLAG NOTES:**

- 1. FURNISH AND INSTALL ELTEK DC DISTRIBUTION (19").


	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG			911 CARVER ST (CENCOM) SITE ROW A RACKS LAYOUT					
DATE	7-AUG-2023	DWG#	K911-DC-10470	SHEET	23 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE						

# 911 CARVER STREET (CENCOM) SITE ROW B DC DISTRIBUTION

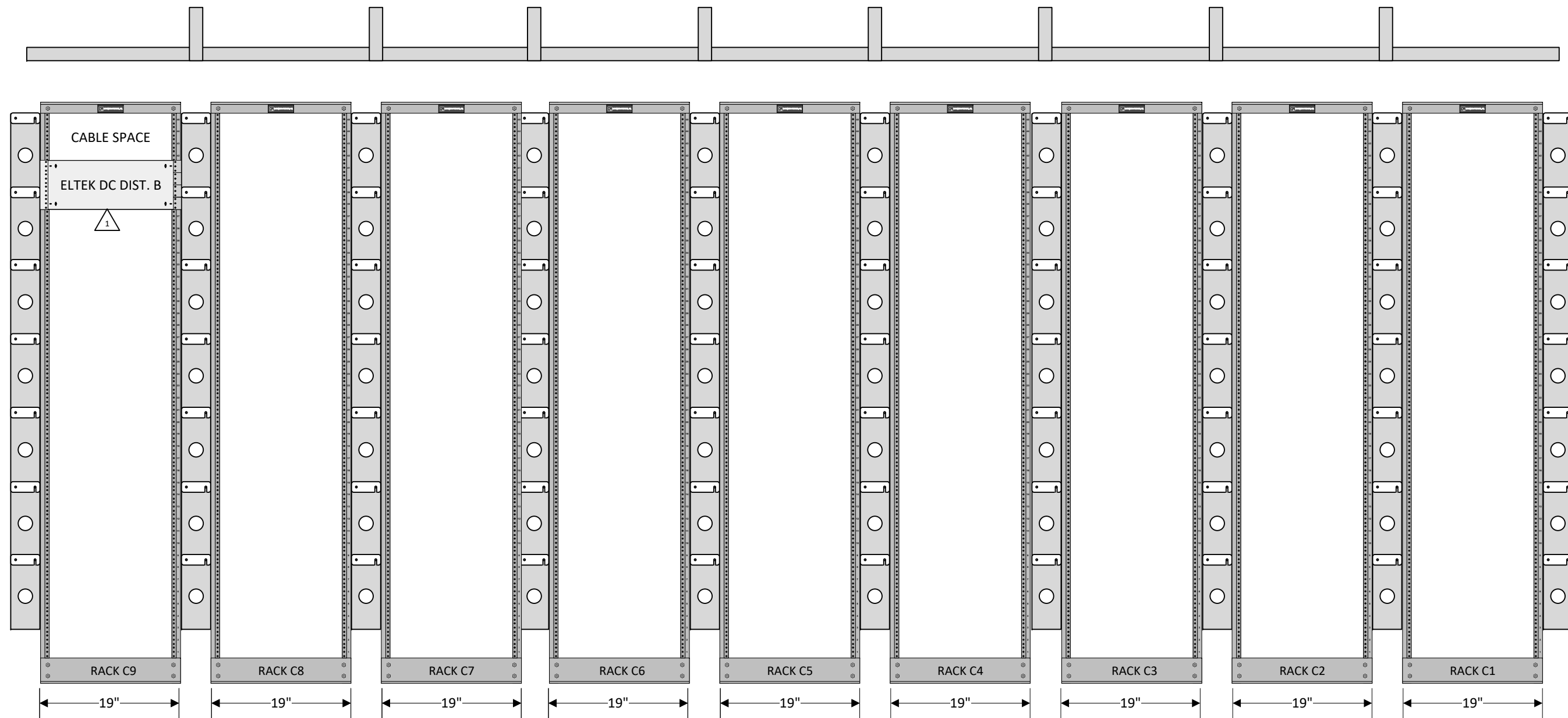


**FLAG NOTES:**

- 1. FURNISH AND INSTALL ELTEK DC DISTRIBUTION (19").


	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG			911 CARVER ST (CENCOM) SITE ROW B DC DISTRIBUTION					
DATE	7-AUG-2023	DWG#	K911-DC-10472	SHEET	24 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE						

# 911 CARVER STREET (CENCOM) SITE ROW C DC DISTRIBUTION



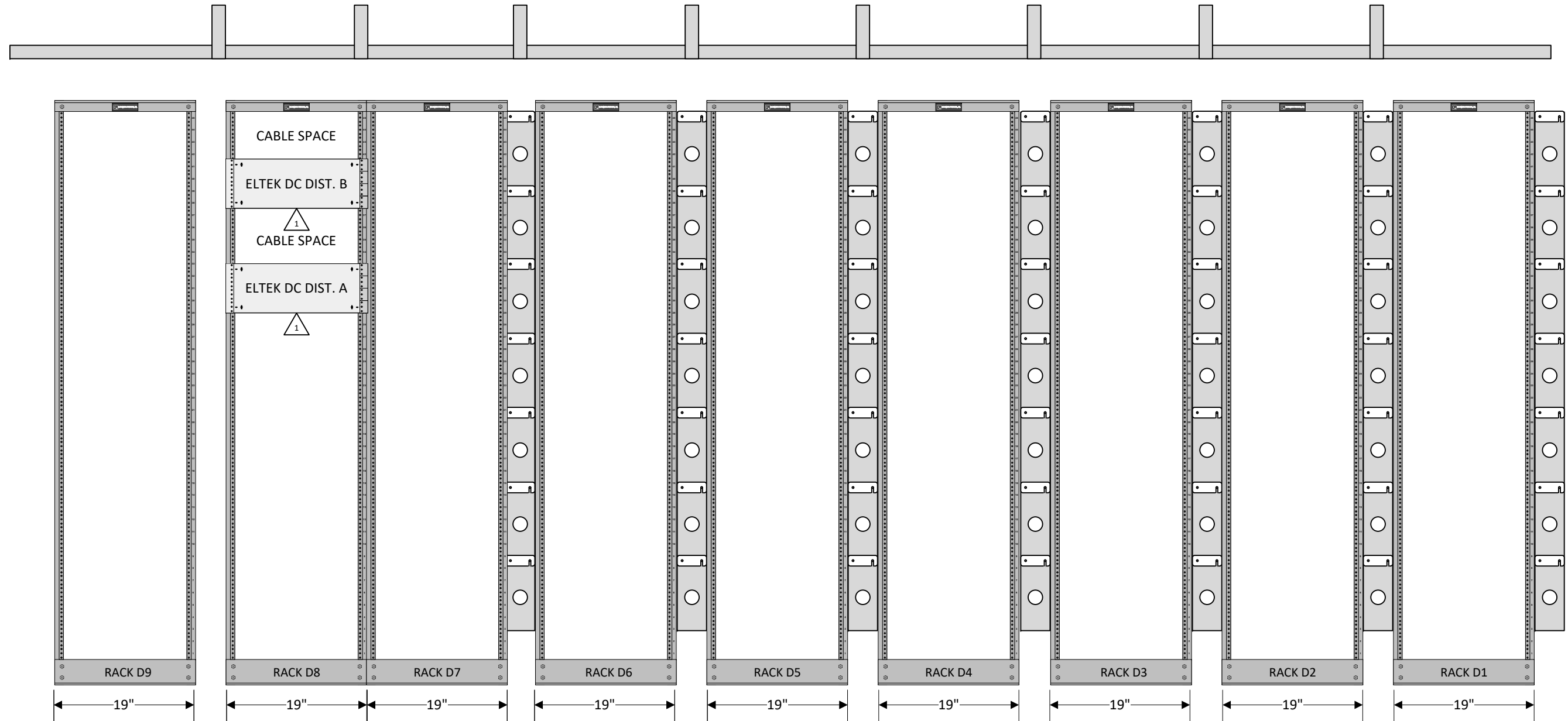
**FLAG NOTES:**

- 1. FURNISH AND INSTALL ELTEK DC DISTRIBUTION (19").

	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG			911 CARVER ST (CENCOM) SITE ROW C DC DISTRIBUTION					
DATE	7-AUG-2023	DWG#	K911-DC-10474	SHEET	25 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE						




# 911 CARVER STREET (CENCOM) SITE ROW D DC DISTRIBUTION

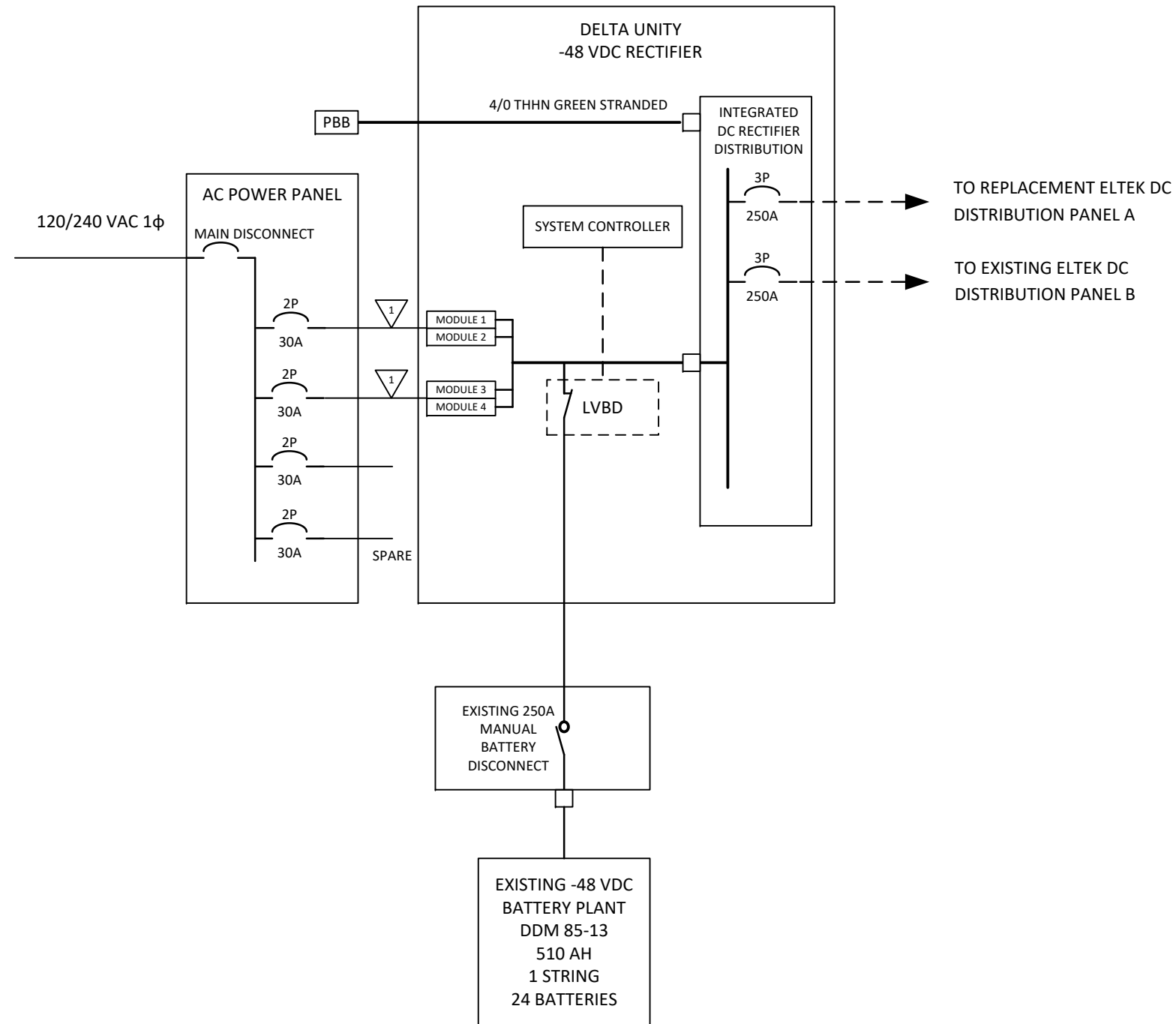


**FLAG NOTES:**

- 1. FURNISH AND INSTALL ELTEK DC DISTRIBUTION (19").


	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG			911 CARVER ST (CENCOM) SITE ROW D DC DISTRIBUTION					
DATE	7-AUG-2023	DWG#	K911-DC-10476						
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE	SHEET	26 OF 64	SIZE	FINAL	-	-

# E30TH STREET SITE DC POWER DIAGRAM



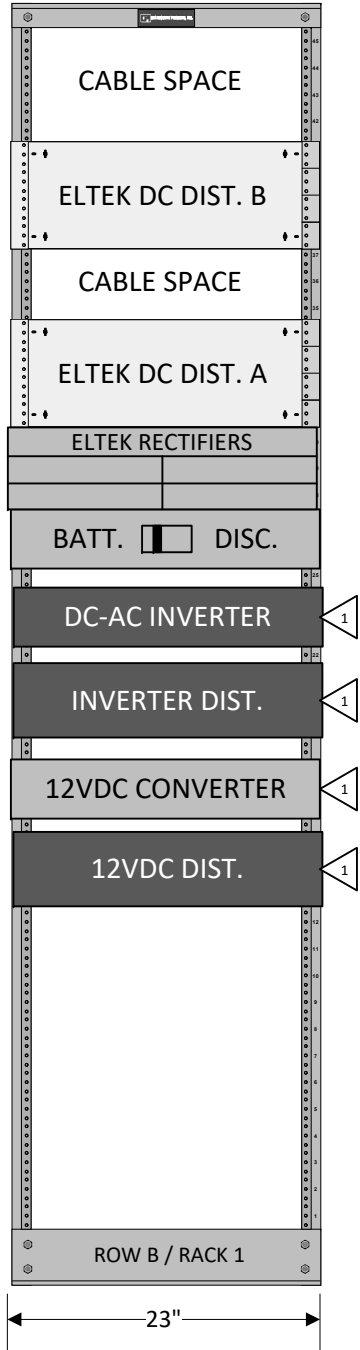
### FLAG NOTES:

1. CONTRACTOR MUST FOLLOW MANUFACTURER'S INSTRUCTION TO INSTALL BUS BARS FOR MAKING DUAL FEED INPUT TERMINAL BLOCK CONNECTIONS (SEE FIGURE 37 IN ELTEK INSTALLATION GUIDE REV 3). EXTEND EXISTING 30A 2 POLE CIRCUITS TO NEW UNITY RECTIFIER.

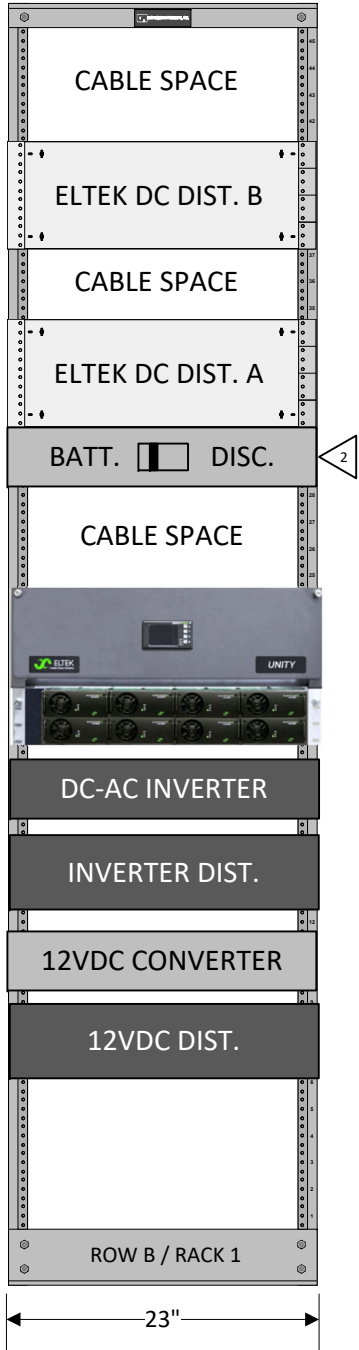
	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS						
	WWW.KITSAP911.ORG			E30TH STREET SITE DC POWER DIAGRAM						
DATE	7-AUG-2023	DWG#	K911-DC-10500		SHEET	27 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE							

# E30TH ST. SITE RACK LAYOUT

EXISTING LAYOUT




REPLACEMENT LAYOUT

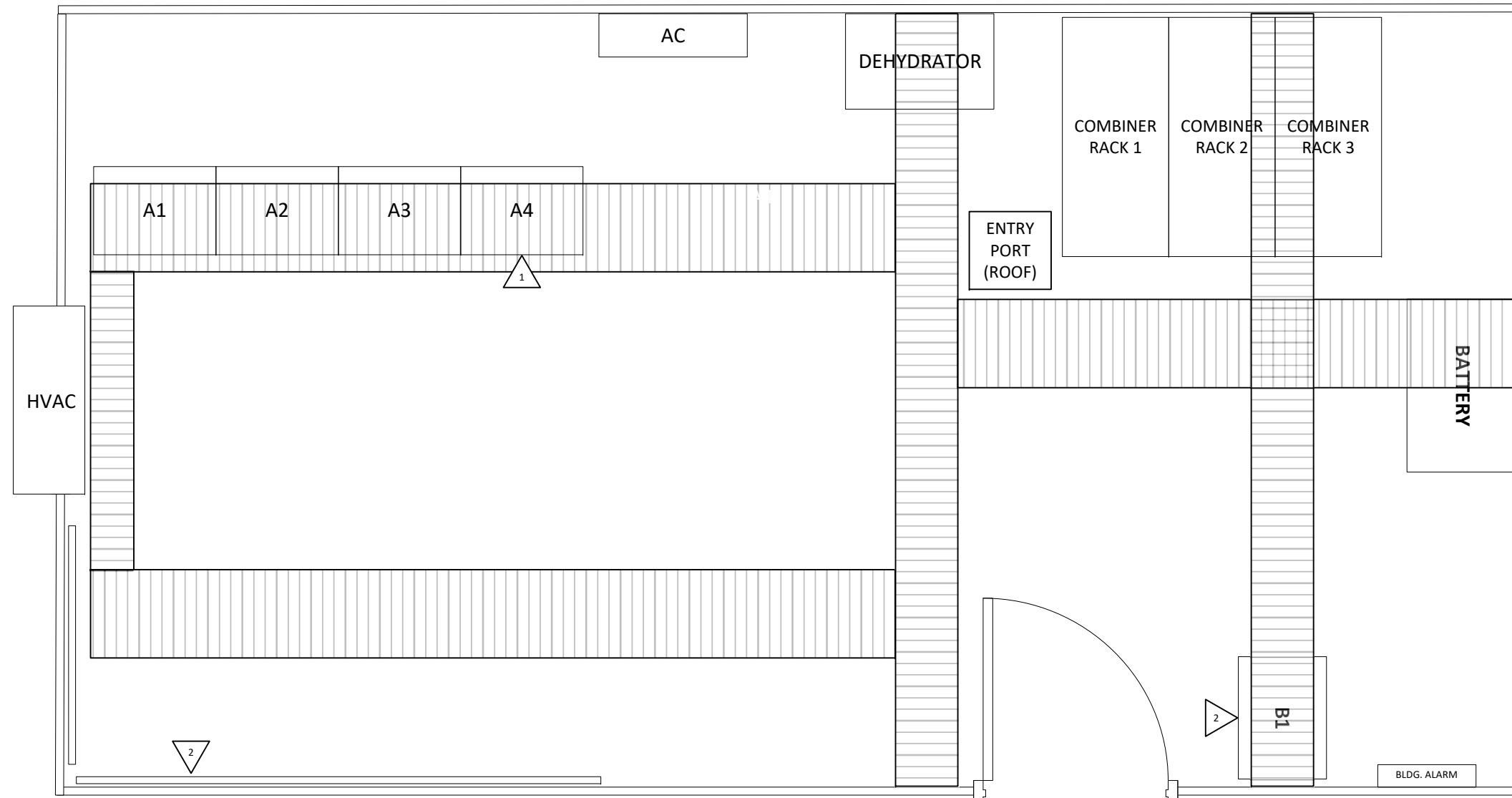


FLAG NOTES:

- 1. KITSAP 911 WILL MOVE THE DC-AC INVERTER, INVERTER DISTRIBUTION PANEL, 12 VDC CONVERTER, AND 12VDC DISTRIBUTION PANEL TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION.
- 2. CONTRACTOR MUST RAISE THE BATTERY DISCONNECT (FED FROM THE TOP) USING EXISTING CABLES AFTER REMOVAL OF EXISTING RECTIFIER SYSTEM TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION OF NEW RECTIFIER SYSTEM.


	KITSAP 911		KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS				
	WWW.KITSAP911.ORG				E30TH ST. SITE RACK LAYOUT				
DATE	7-AUG-2023	DWG#	K911-DC-10510						
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE		SHEET	28 OF 64	SIZE	FINAL	-


# E30TH STREET SITE FLOOR PLAN




Row	A	Equipment
Rack	1	RCV MULTI, GPS, RCVRS
Rack	2	FIRE
Rack	3	LE, TAC
Rack	4	MW, RTU, CB, SWITCH,ETC
Row	B	Equipment
Rack	1	-48VDC RECT. AND DIST.

**FLAG NOTES:**

- 

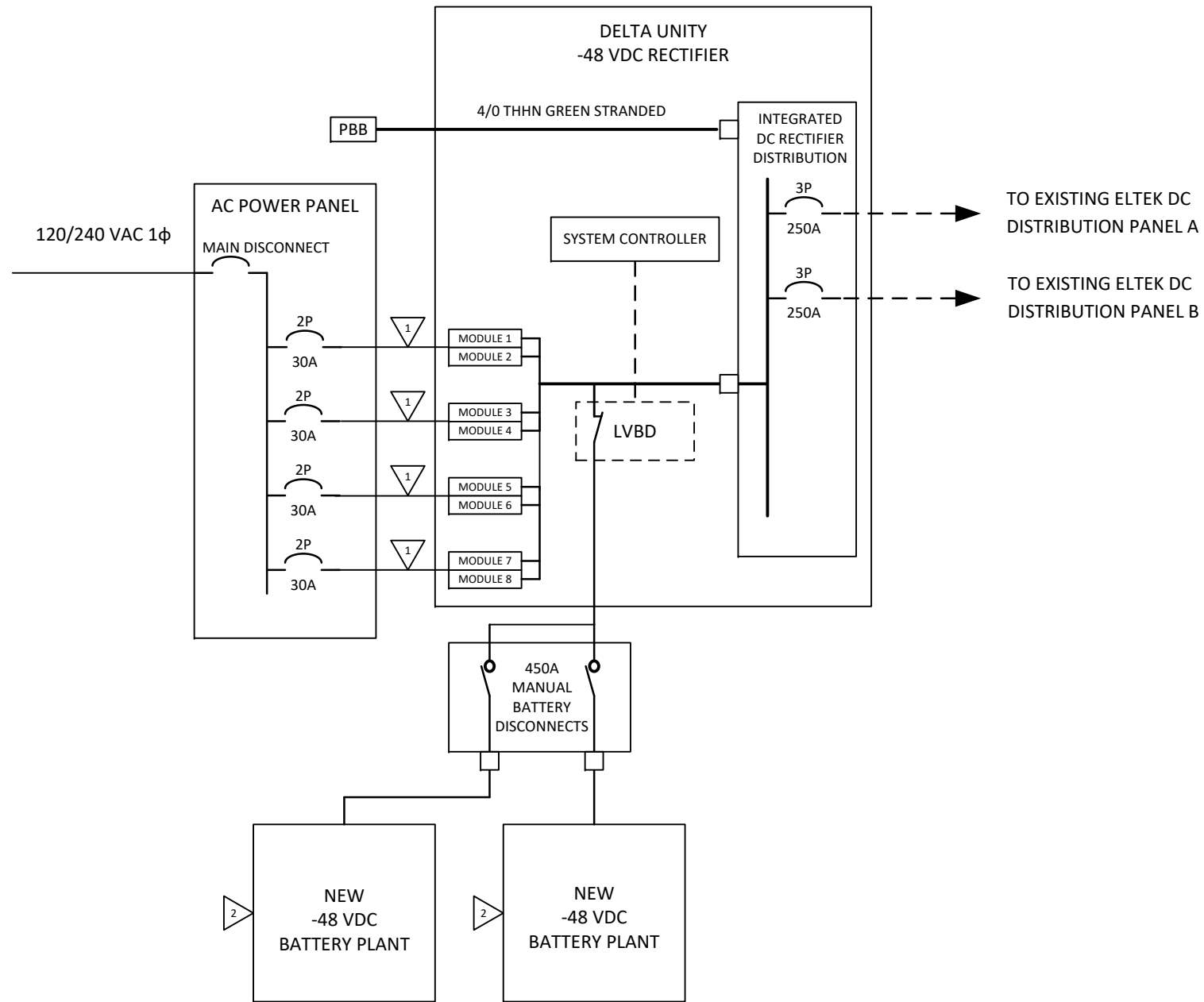
1. CONTRACTOR MUST FURNISH AND INSTALL CAT 6 CABLE WITH PLENUM RATED JACKET BETWEEN THE RECTIFIER CONTROLLER AND THE SITE ETHERNET SWITCH. CABLE MUST BE CUT TO LENGTH, TERMINATED, AND TESTED FOR MISWIRING, OPENS, AND SHORTS. ETHERNET CABLE DOES NOT NEED TO BE CERTIFIED. KITSAP 911 WILL CONFIGURE ETHERNET SWITCH PORT AND MAKE THE CONNECTION TO THE SWITCH FOR VERIFICATION TESTING.
- 

2. CONTRACTOR MUST FURNISH AND INSTALL ALARM CABLE BETWEEN THE RECTIFIER CONTROLLER AND THE EXISTING 66 TYPE BLOCK AND TEST PROPER OPERATION OF THE ALARMS WITH KITSAP 911.

	KITSAP 911		KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG				E30TH STREET SITE FLOOR PLAN					
DATE	7-AUG-2023	DWG#	K911-DC-10520		SHEET	29 TO 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE							




# GOLD MOUNTAIN SITE DC POWER DIAGRAM



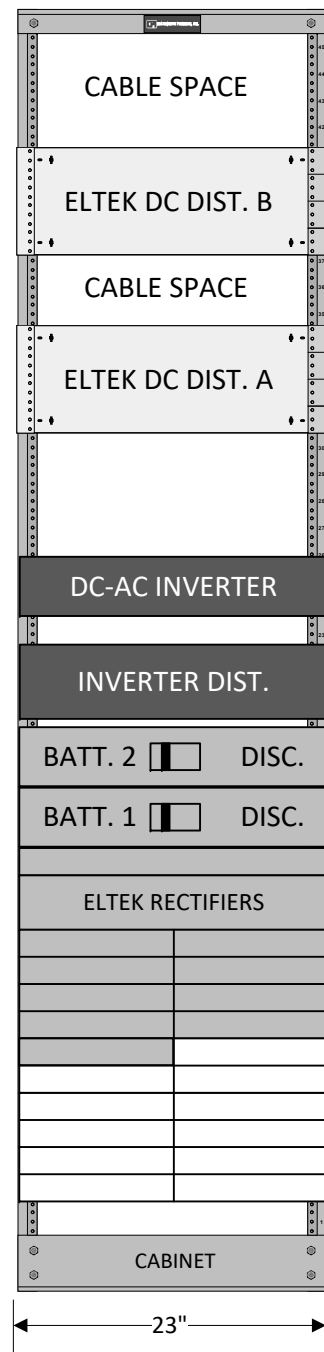
### FLAG NOTES:

1. CONTRACTOR MUST FOLLOW MANUFACTURER'S INSTRUCTION TO INSTALL BUS BARS FOR MAKING DUAL FEED INPUT TERMINAL BLOCK CONNECTIONS (SEE FIGURE 37 IN ELTEK INSTALLATION GUIDE REV 3). EXTEND EXISTING 30A 2 POLE CIRCUITS TO NEW UNITY RECTIFIER.
2. CONTRACTOR MUST REPLACE EXISTING -48 VDC BATTERY PLANT DDMP125-27 1625 AH, 2 STRINGS, 48 BATTERIES.

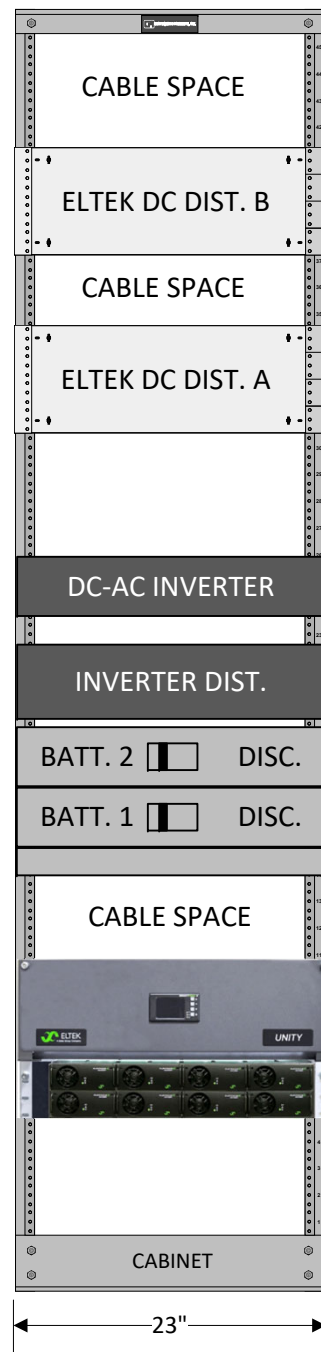
	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS						
	WWW.KITSAP911.ORG			GOLD MOUNTAIN SITE DC POWER DIAGRAM						
DATE	7-AUG-2023	DWG#	K911-DC-10600		SHEET	30 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE							


# GOLD MOUNTAIN SITE RACK LAYOUT

EXISTING LAYOUT

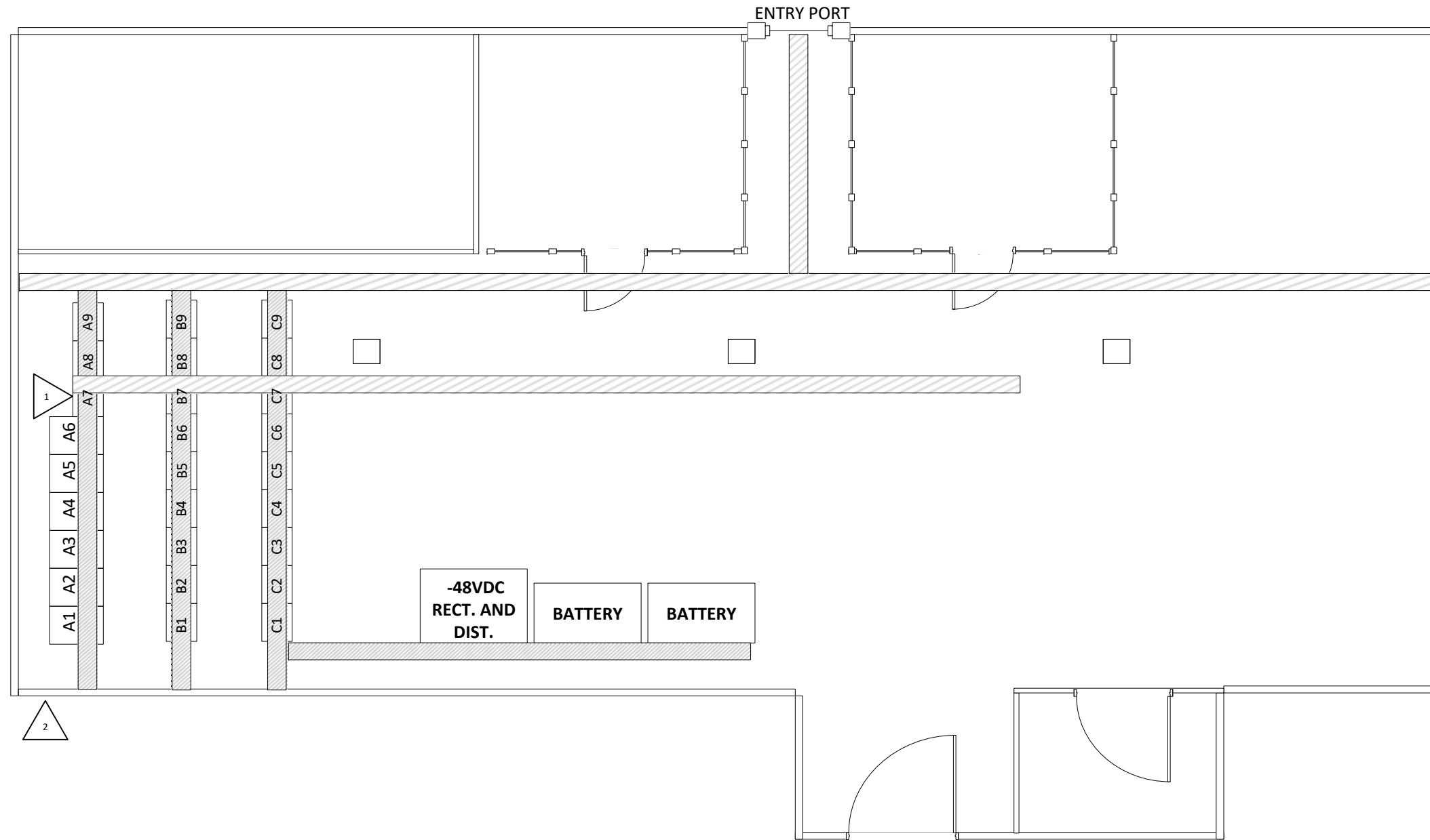


REPLACEMENT LAYOUT



 <b>KITSAP</b> <small>CENCOM</small>	<b>KITSAP 911</b>	<small>KITSAP 911            911 CARVER ST.            BREMERTON, WA 98312            360 307-5800</small>		<b>KITSAP 911 – CENCOM            DC POWER SYSTEMS REPLACEMENTS</b>						
	<small>WWW.KITSAP911.ORG</small>			<b>GOLD MOUNTAIN SITE            RACK LAYOUT</b>						
<small>DATE</small>	7-AUG-2023	<small>DWG#</small>	K911-DC-10610							
<small>PREPARED BY</small>	R. SCOTT PEABODY	<small>SCALE</small>	NONE		<small>SHEET</small>	31 OF 64	<small>SIZE</small>	FINAL	-	-


# GOLD MOUNTAIN SITE FLOOR PLAN



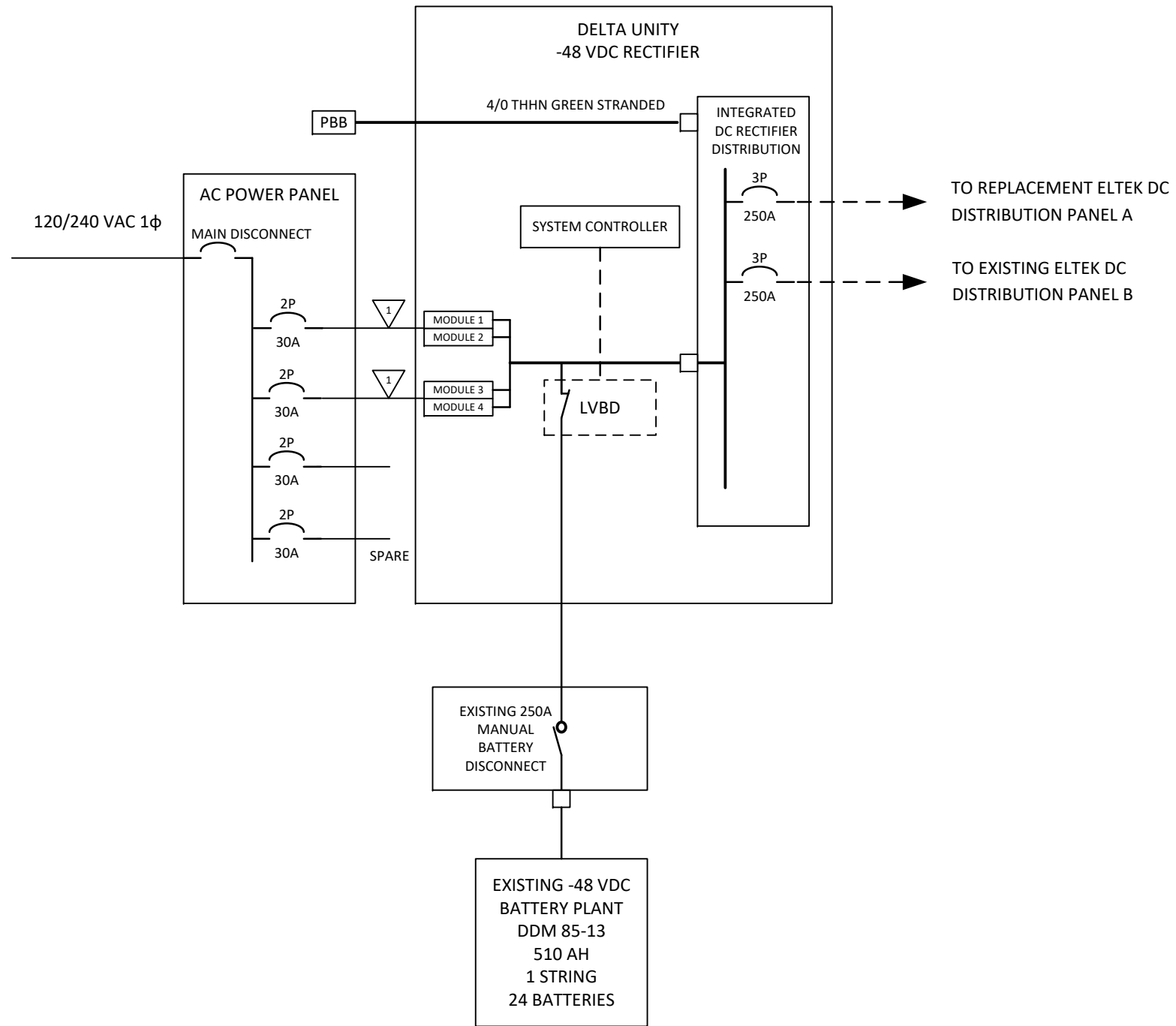
Row	A	Equipment
Rack	1	Combiner Rack
Rack	2	Combiner Rack
Rack	3	Combiner Rack
Rack	4	Combiner Rack
Rack	5	Combiner Rack
Rack	6	Combiner Rack
Rack	7	Eclipse MW
Rack	8	Alarm / RAD T1
Rack	9	Constellation MW
Row	B	
Rack	1	Multicoupler
Rack	2	LE
Rack	3	Fire
Rack	4	Med/TAC
Rack	5	Simulcast Dist. AGC M/S
Rack	6	
Rack	7	
Rack	8	
Rack	9	
Row	C	Equipment
Rack	1	Combiner
Rack	2	Kitsap Transit
Rack	3	
Rack	4	
Rack	5	
Rack	6	
Rack	7	
Rack	8	
Rack	9	

**FLAG NOTES:**

- 1. CONTRACTOR MUST FURNISH AND INSTALL CAT 6 CABLE WITH PLENUM RATED JACKET BETWEEN THE RECTIFIER CONTROLLER AND THE SITE ETHERNET SWITCH. CABLE MUST BE CUT TO LENGTH, TERMINATED, AND TESTED FOR MISWIRING, OPENS, AND SHORTS. ETHERNET CABLE DOES NOT NEED TO BE CERTIFIED. KITSAP 911 WILL CONFIGURE ETHERNET SWITCH PORT AND MAKE THE CONNECTION TO THE SWITCH FOR VERIFICATION TESTING.
- 2. CONTRACTOR MUST FURNISH AND INSTALL ALARM CABLE BETWEEN THE RECTIFIER CONTROLLER AND THE EXISTING 66 TYPE BLOCK AND TEST PROPER OPERATION OF THE ALARMS WITH KITSAP 911.


	KITSAP 911		KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG				GOLD MOUNTAIN SITE FLOOR PLAN					
DATE	7-AUG-2023	DWG#	K911-DC-10620		SHEET	32 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE							

# HANSVILLE ROAD SITE DC POWER DIAGRAM



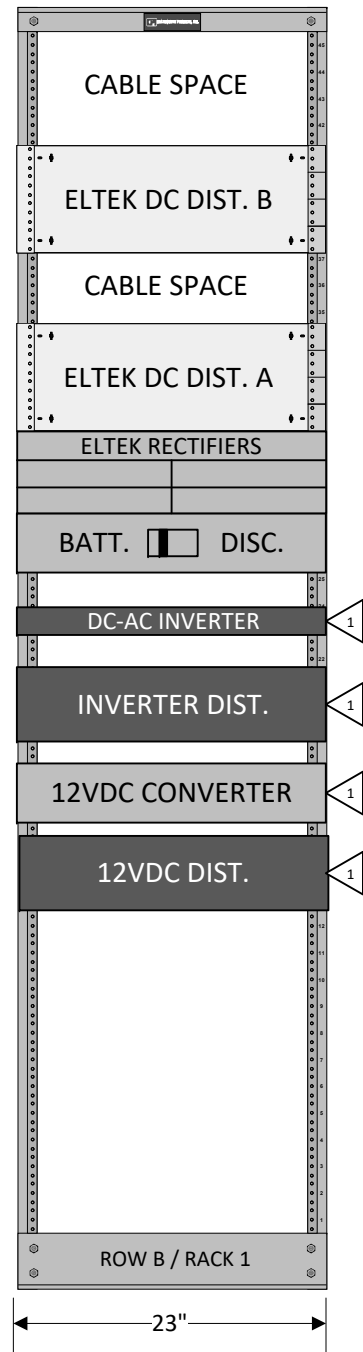
## FLAG NOTES:

1. CONTRACTOR MUST FOLLOW MANUFACTURER'S INSTRUCTION TO INSTALL BUS BARS FOR MAKING DUAL FEED INPUT TERMINAL BLOCK CONNECTIONS (SEE FIGURE 37 IN ELTEK INSTALLATION GUIDE REV 3). EXTEND EXISTING 30A 2 POLE CIRCUITS TO NEW UNITY RECTIFIER.

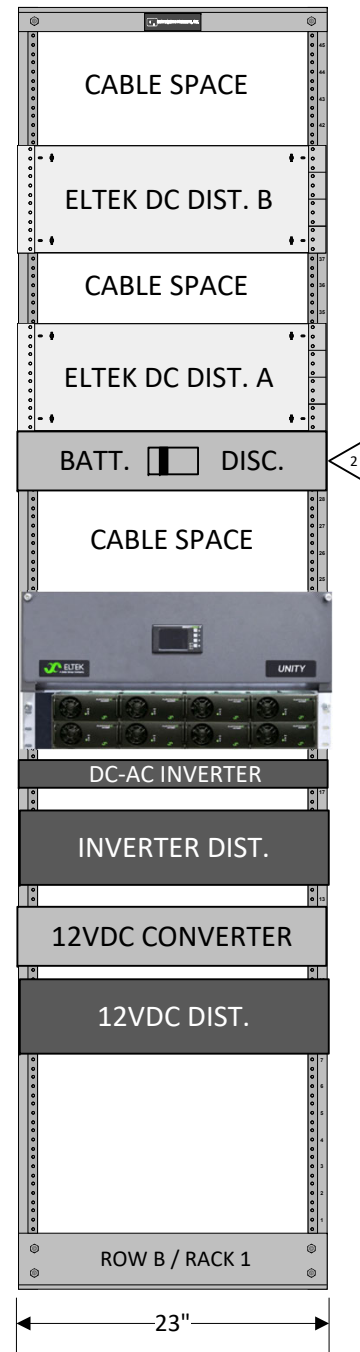
	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG			HANSVILLE ROAD SITE DC POWER DIAGRAM					
DATE	7-AUG-2023	DWG#	K911-DC-10700	SHEET	33 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE						

# HANSVILLE ROAD SITE RACK LAYOUT

EXISTING LAYOUT




REPLACEMENT LAYOUT



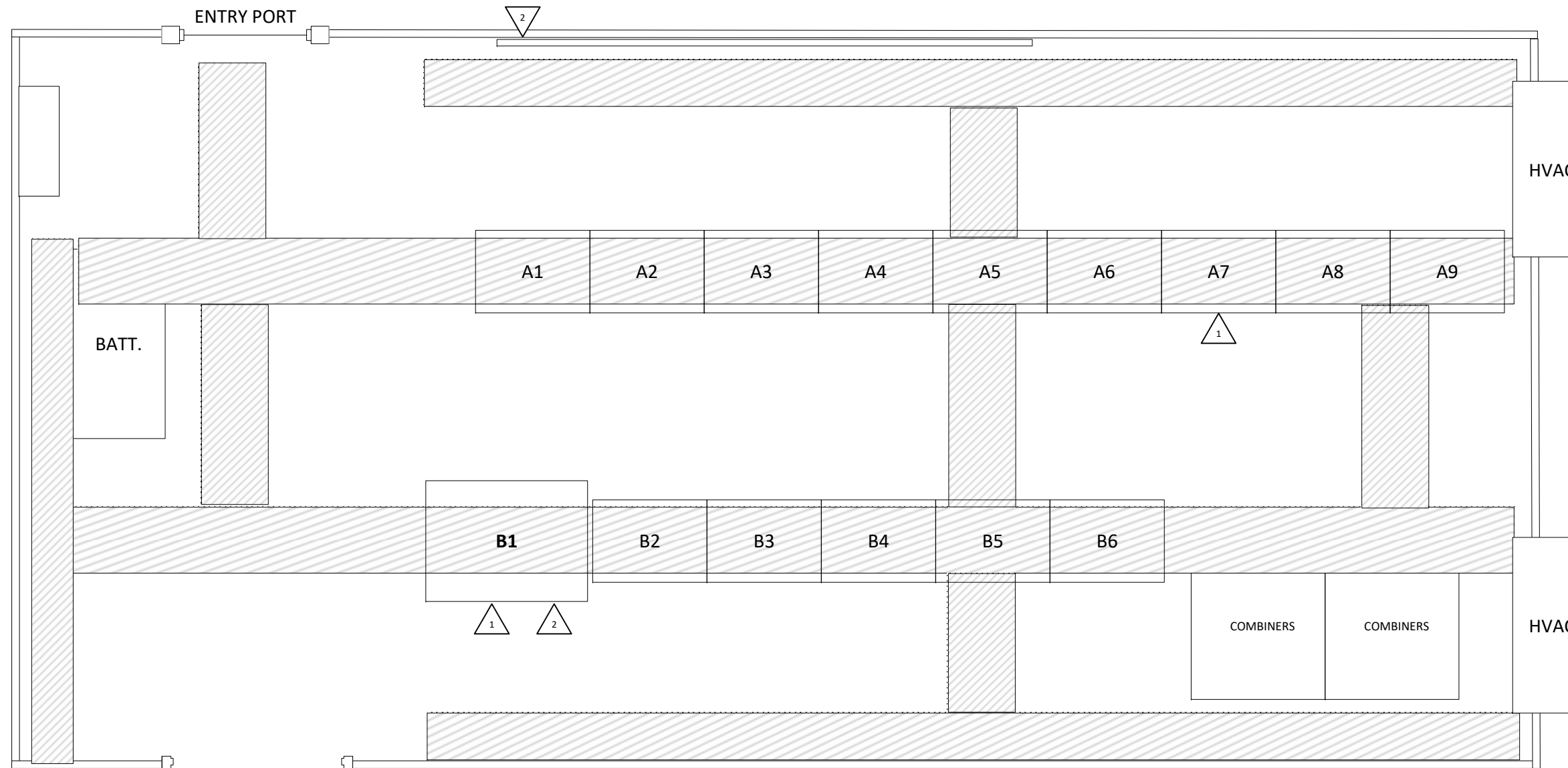
FLAG NOTES:

- 1. KITSAP 911 WILL MOVE THE DC-AC INVERTER, INVERTER DISTRIBUTION PANEL, 12 VDC CONVERTER, AND 12VDC DISTRIBUTION PANEL TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION.
- 2. CONTRACTOR MUST RAISE THE BATTERY DISCONNECT (FED FROM THE TOP) USING EXISTING CABLES AFTER REMOVAL OF EXISTING RECTIFIER SYSTEM TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION OF NEW RECTIFIER SYSTEM.

	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG			HANSVILLE ROAD SITE RACK LAYOUT					
DATE	7-AUG-2023	DWG#	K911-DC-10710						
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE	SHEET	34 OF 64	SIZE	FINAL	-	-




# HANSVILLE ROAD SITE FLOOR PLAN



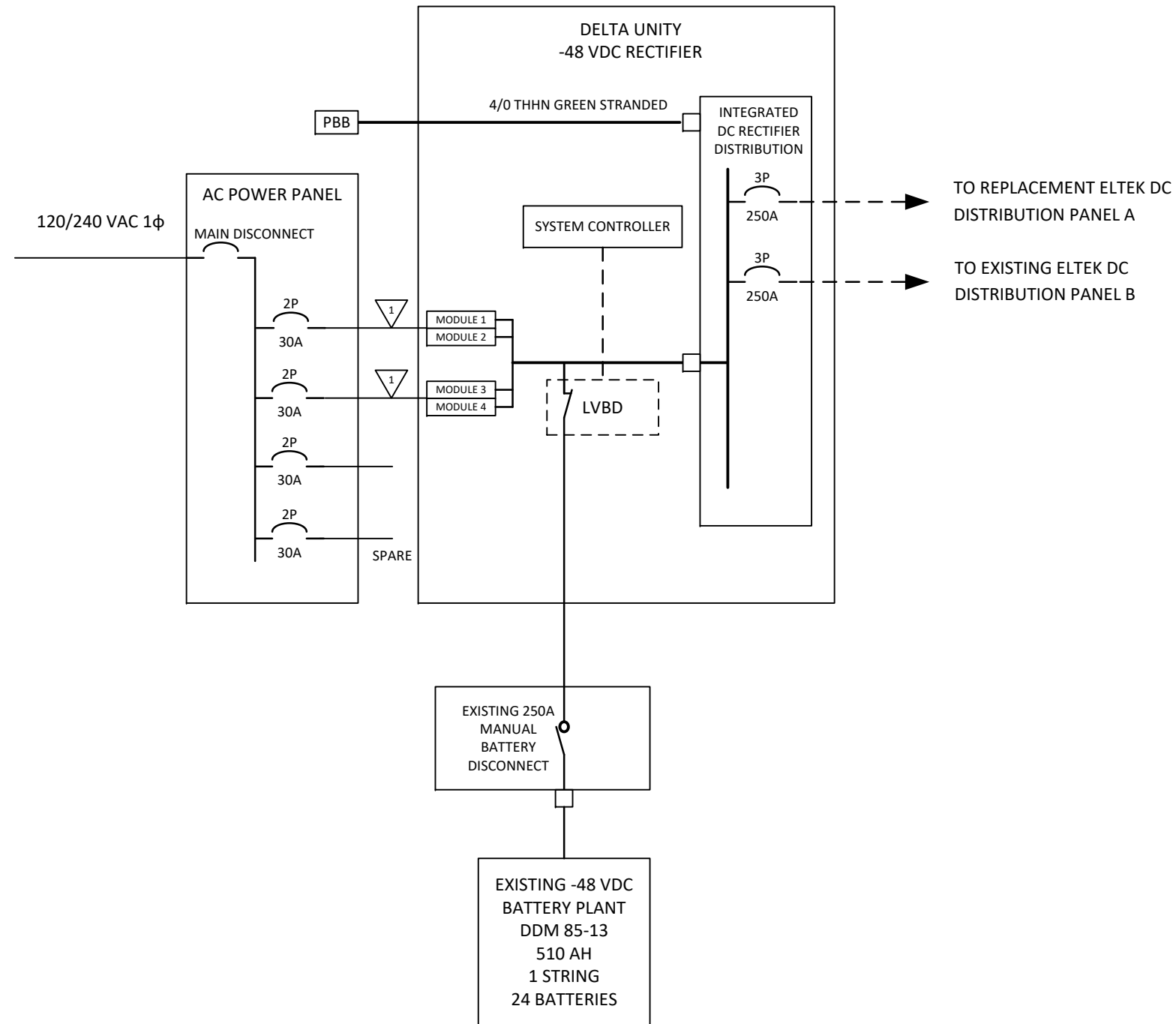
Row	Equipment
Rack 1	
Rack 2	
Rack 3	Alarm / RAD
Rack 4	Eclipse MW
Rack 5	Constellation MW
Rack 6	Constellation MW
Rack 7	Misc
Rack 8	Fire
Rack 9	LE
Row B	
Rack 1	- 48 V RECT. AND DIST.
Rack 2	
Rack 3	
Rack 4	
Rack 5	
Rack 6	JPS RX Voters
Rack 7	Simulcast Dist. AGC M/S
Rack 8	Harris Channel Bank
Rack 9	Harris Channel Bank

**FLAG NOTES:**

- 1
 1. CONTRACTOR MUST FURNISH AND INSTALL CAT 6 CABLE WITH PLENUM RATED JACKET BETWEEN THE RECTIFIER CONTROLLER IN RACK B1 AND THE SITE ETHERNET SWITCH IN RACK A5. CABLE MUST BE CUT TO LENGTH, TERMINATED, AND TESTED FOR MISWIRING, OPENS, AND SHORTS. ETHERNET CABLE DOES NOT NEED TO BE CERTIFIED. KITSAP 911 WILL CONFIGURE ETHERNET SWITCH PORT AND MAKE THE CONNECTION TO THE SWITCH FOR VERIFICATION TESTING.
- 2
 2. CONTRACTOR MUST FURNISH AND INSTALL ALARM CABLE BETWEEN THE RECTIFIER CONTROLLER AND THE EXISTING 66 TYPE BLOCK AND TEST PROPER OPERATION OF THE ALARMS WITH KITSAP 911.


	<b>KITSAP 911</b>	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS								
	WWW.KITSAP911.ORG	DATE	7-AUG-2023	DWG#	K911-DC-10720							
PREPARED BY	R. SCOTT PEABODY		SCALE	NONE			SHEET	35 OF 64	SIZE	FINAL	-	-

# LINCOLN HILL SITE DC POWER DIAGRAM



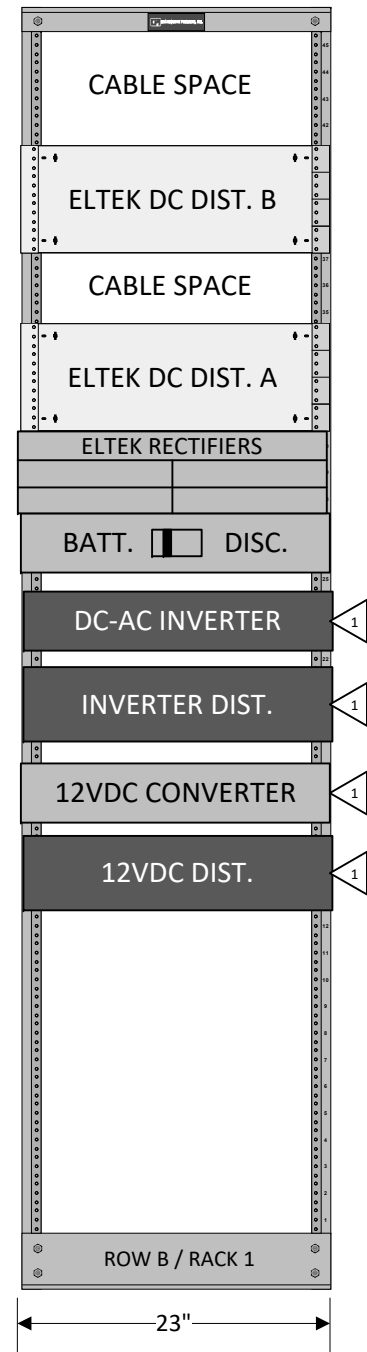
### FLAG NOTES:

1. CONTRACTOR MUST FOLLOW MANUFACTURER'S INSTRUCTION TO INSTALL BUS BARS FOR MAKING DUAL FEED INPUT TERMINAL BLOCK CONNECTIONS (SEE FIGURE 37 IN ELTEK INSTALLATION GUIDE REV 3). REPLACE EXISTING 20A 2P BREAKERS AND CONDUCTORS WITH 30A 2 POLE CIRCUITS TO NEW UNITY RECTIFIER.

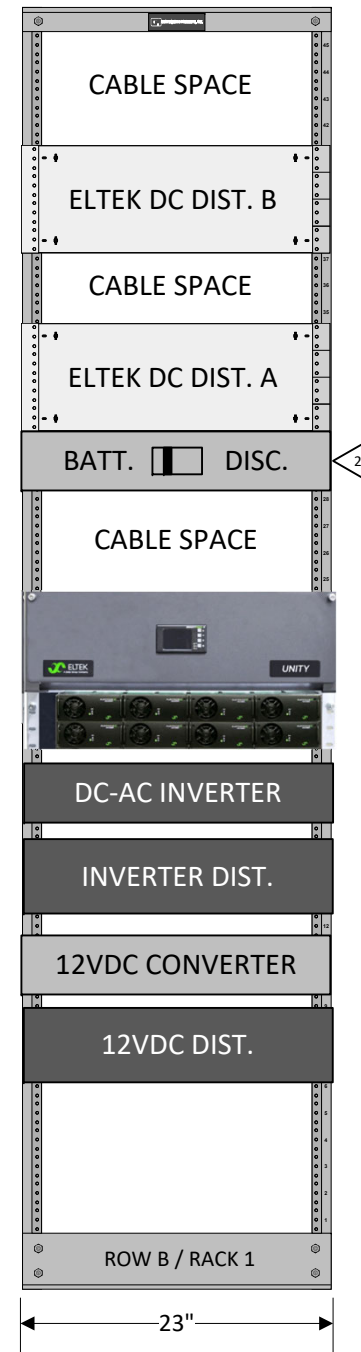
	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG			LINCOLN HILL SITE DC POWER DIAGRAM					
DATE	7-AUG-2023	DWG#	K911-DC-10800	SHEET	36 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE						

# LINCOLN HILL SITE RACK LAYOUT

EXISTING LAYOUT




REPLACEMENT LAYOUT

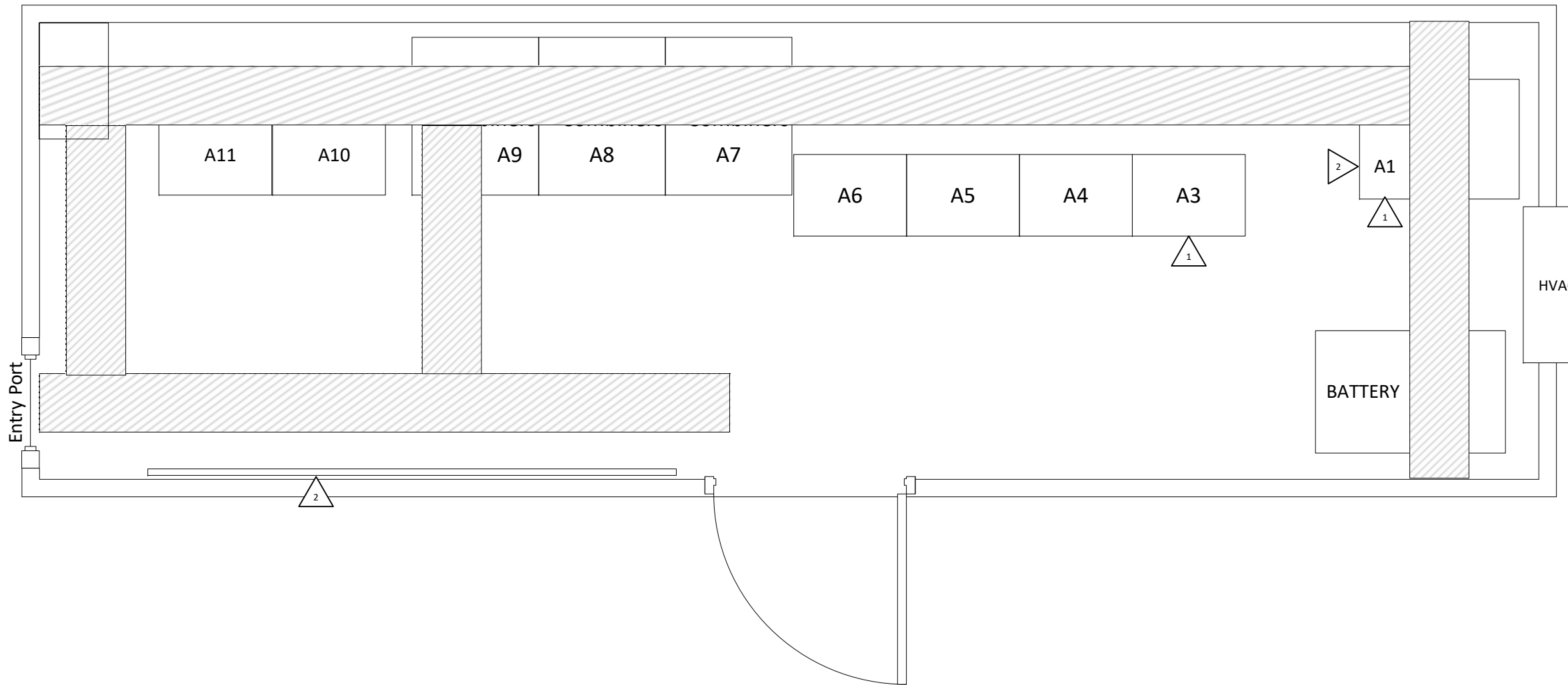


FLAG NOTES:

- 1. KITSAP 911 WILL MOVE THE DC-AC INVERTER, INVERTER DISTRIBUTION PANEL, 12 VDC CONVERTER, AND 12VDC DISTRIBUTION PANEL TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION.
- 2. CONTRACTOR MUST RAISE THE BATTERY DISCONNECT (FED FROM THE TOP) USING EXISTING CABLES AFTER REMOVAL OF EXISTING RECTIFIER SYSTEM TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION OF NEW RECTIFIER SYSTEM.

	KITSAP 911		KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS				
	WWW.KITSAP911.ORG				LINCOLN HILL SITE RACK LAYOUT				
DATE	7-AUG-2023	DWG#	K911-DC-10810						
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE		SHEET	37 OF 64	SIZE	FINAL	-

# LINCOLN HILL SITE FLOOR PLAN



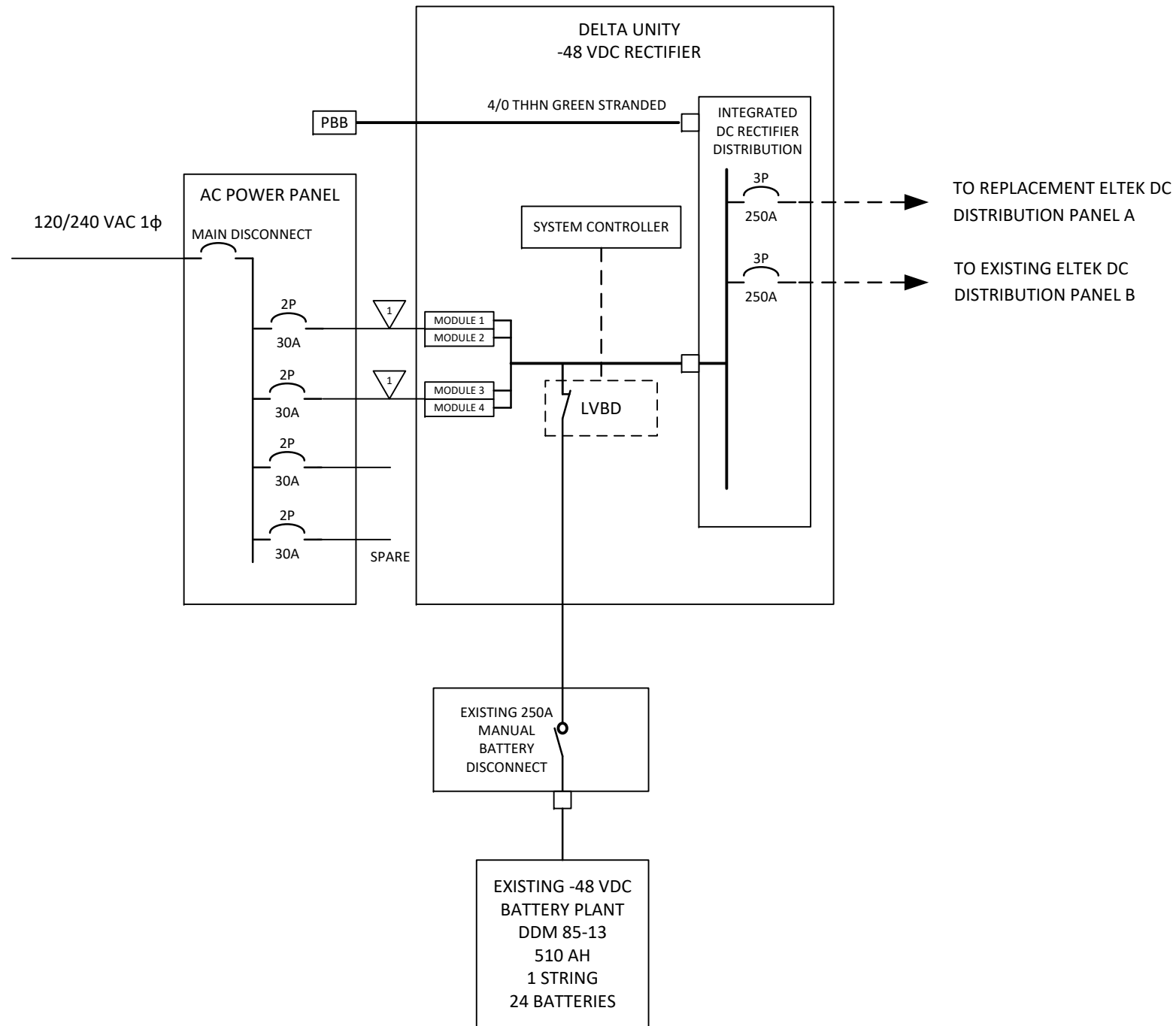
Row	A	Equipment
Rack	1	DC Rectifiers / Breakers
Rack	2	
Rack	3	Alarm
Rack	4	LE
Rack	5	Fire
Rack	6	Misc
Rack	7	Combiner
Rack	8	Combiner
Rack	9	Combiner
Rack	10	Constellation MW
Rack	11	Eclipse MW

**FLAG NOTES:**

- 1
 1. CONTRACTOR MUST FURNISH AND INSTALL CAT 6 CABLE WITH PLENUM RATED JACKET BETWEEN THE RECTIFIER CONTROLLER IN RACK A1 AND THE SITE ETHERNET SWITCH IN RACK A3. CABLE MUST BE CUT TO LENGTH, TERMINATED, AND TESTED FOR MISWIRING, OPENS, AND SHORTS. ETHERNET CABLE DOES NOT NEED TO BE CERTIFIED. KITSAP 911 WILL CONFIGURE ETHERNET SWITCH PORT AND MAKE THE CONNECTION TO THE SWITCH FOR VERIFICATION TESTING.
- 2
 2. CONTRACTOR MUST FURNISH AND INSTALL ALARM CABLE BETWEEN THE RECTIFIER CONTROLLER AND THE EXISTING 66 TYPE BLOCK AND TEST PROPER OPERATION OF THE ALARMS WITH KITSAP 911.


	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG			LINCOLN HILL SITE FLOOR PLAN					
DATE	7-AUG-2023	DWG#	K911-DC-10820	SHEET	38 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE						

# MANDUS OLSON SITE DC POWER DIAGRAM



### FLAG NOTES:

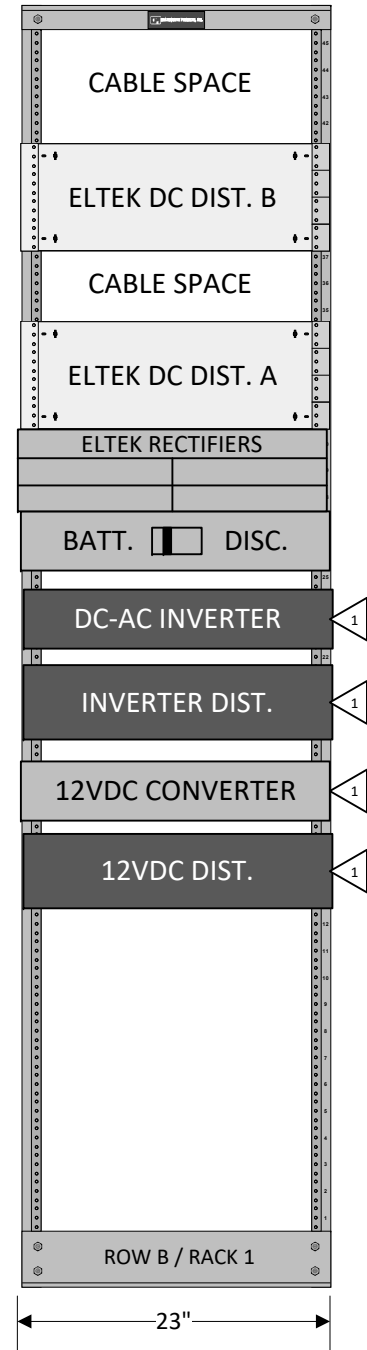
1. CONTRACTOR MUST FOLLOW MANUFACTURER'S INSTRUCTION TO INSTALL BUS BARS FOR MAKING DUAL FEED INPUT TERMINAL BLOCK CONNECTIONS (SEE FIGURE 37 IN ELTEK INSTALLATION GUIDE REV 3). EXTEND EXISTING 30A 2 POLE CIRCUITS TO NEW UNITY RECTIFIER.

	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS						
	WWW.KITSAP911.ORG			MANDUS OLSON SITE DC POWER DIAGRAM						
DATE	7-AUG-2023	DWG#	K911-DC-10900		SHEET	39 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE							

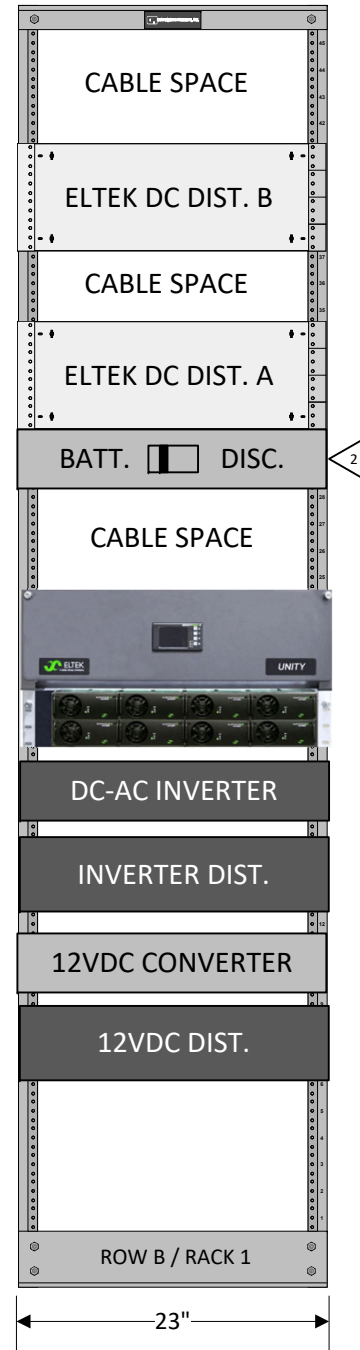


# MANDUS OLSON SITE RACK LAYOUT

EXISTING LAYOUT




REPLACEMENT LAYOUT

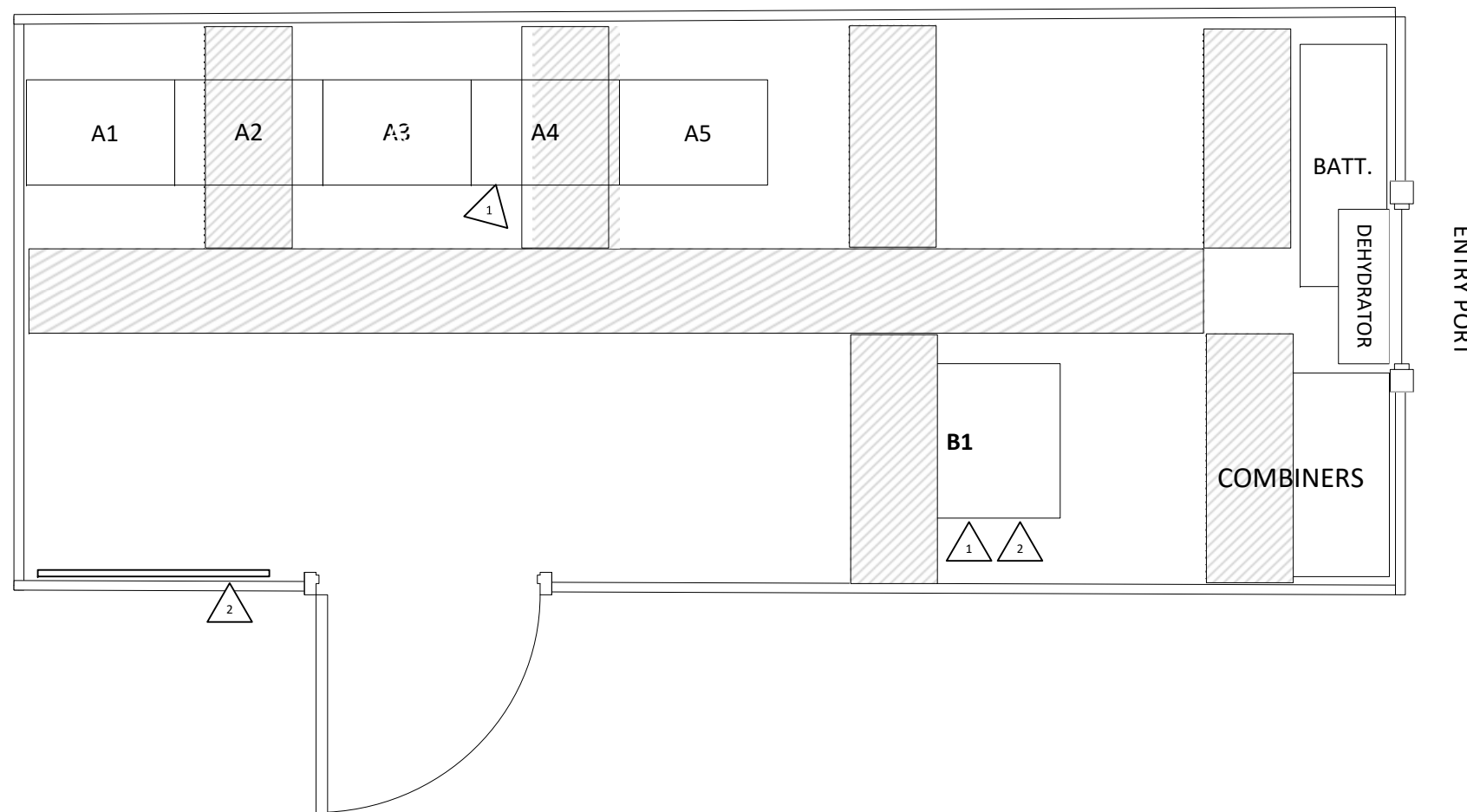


FLAG NOTES:

- 1. KITSAP 911 WILL MOVE THE DC-AC INVERTER, INVERTER DISTRIBUTION PANEL, 12 VDC CONVERTER, AND 12VDC DISTRIBUTION PANEL TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION.
- 2. CONTRACTOR MUST RAISE THE BATTERY DISCONNECT (FED FROM THE TOP) USING EXISTING CABLES AFTER REMOVAL OF EXISTING RECTIFIER SYSTEM TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION OF NEW RECTIFIER SYSTEM.

	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG				MANDUS OLSON SITE RACK LAYOUT				
DATE	7-AUG-2023	DWG#	K911-DC-10910						
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE	SHEET	40 OF 64	SIZE	FINAL	-	-


# MANDUS OLSON SITE FLOOR PLAN



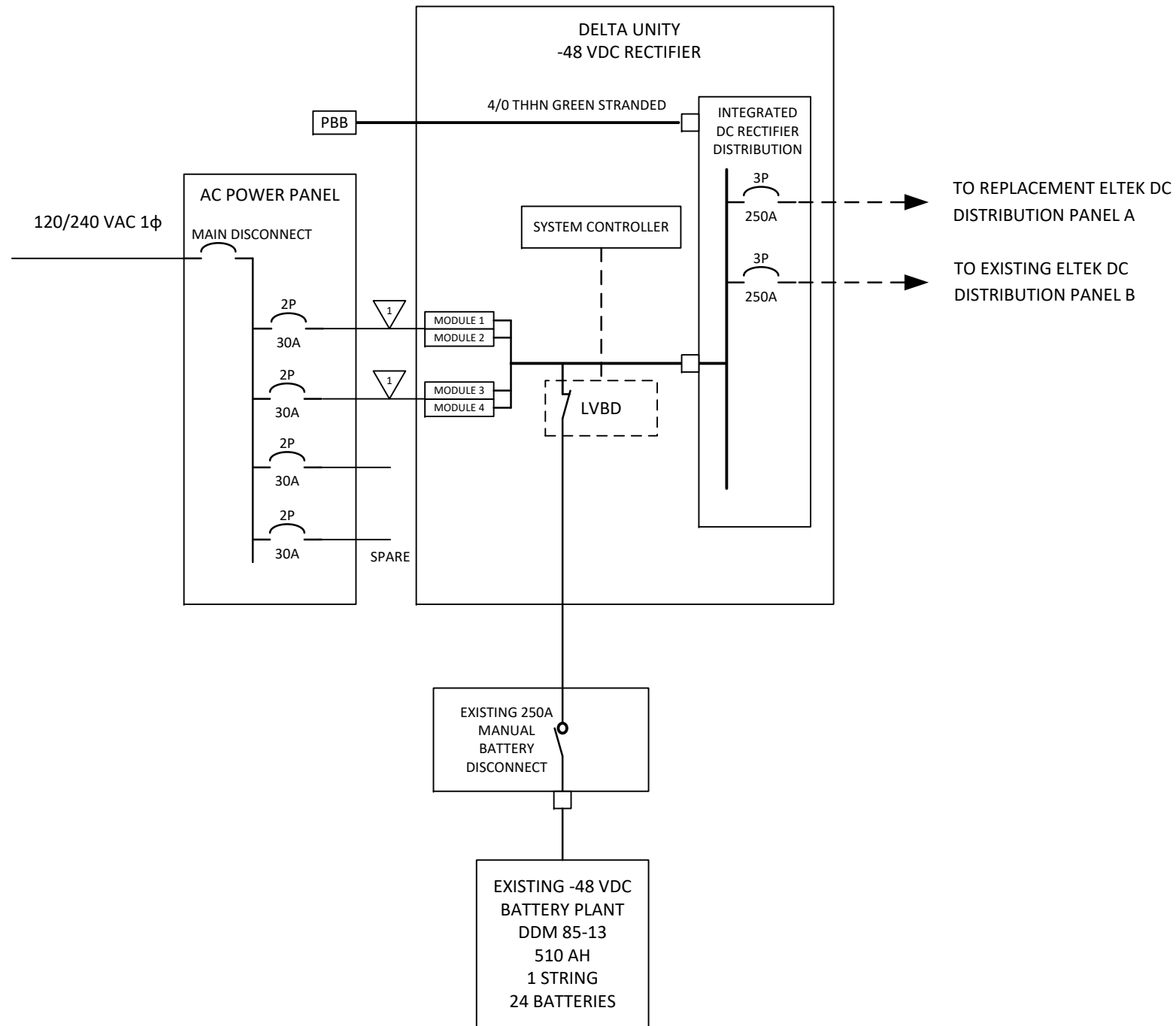
Row	Equipment
Rack 1	D-Star
Rack 2	Constellation MW
Rack 3	Eclipse MW
Rack 4	Multicoupler / Simulcast
Rack 5	LE / Fire
Row B	Equipment
Rack 1	<b>-48VDC RECT. AND DIST.</b>

**FLAG NOTES:**

- 1
 1. CONTRACTOR MUST FURNISH AND INSTALL CAT 6 CABLE WITH PLENUM RATED JACKET BETWEEN THE RECTIFIER CONTROLLER IN RACK B1 AND THE SITE ETHERNET SWITCH IN RACK A4 . CABLE MUST BE CUT TO LENGTH, TERMINATED, AND TESTED FOR MISWIRING, OPENS, AND SHORTS. ETHERNET CABLE DOES NOT NEED TO BE CERTIFIED. KITSAP 911 WILL CONFIGURE ETHERNET SWITCH PORT AND MAKE THE CONNECTION TO THE SWITCH FOR VERIFICATION TESTING.
- 2
 2. CONTRACTOR MUST FURNISH AND INSTALL ALARM CABLE BETWEEN THE RECTIFIER CONTROLLER AND THE EXISTING 66 TYPE BLOCK AND TEST PROPER OPERATION OF THE ALARMS WITH KITSAP 911.


	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG				MANDUS OLSON SITE FLOOR PLAN				
DATE	7-AUG-2023	DWG#	K911-DC-10920	SHEET	41 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE						

# NEWBERRY HILL SITE DC POWER DIAGRAM



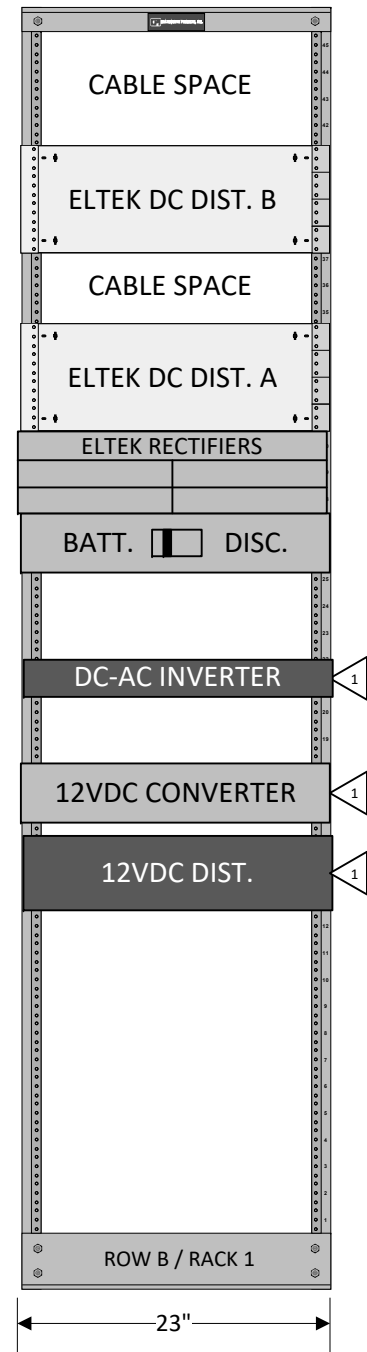
### FLAG NOTES:

1. CONTRACTOR MUST FOLLOW MANUFACTURER'S INSTRUCTION TO INSTALL BUS BARS FOR MAKING DUAL FEED INPUT TERMINAL BLOCK CONNECTIONS (SEE FIGURE 37 IN ELTEK INSTALLATION GUIDE REV 3). EXTEND EXISTING 30A 2 POLE CIRCUITS TO NEW UNITY RECTIFIER.

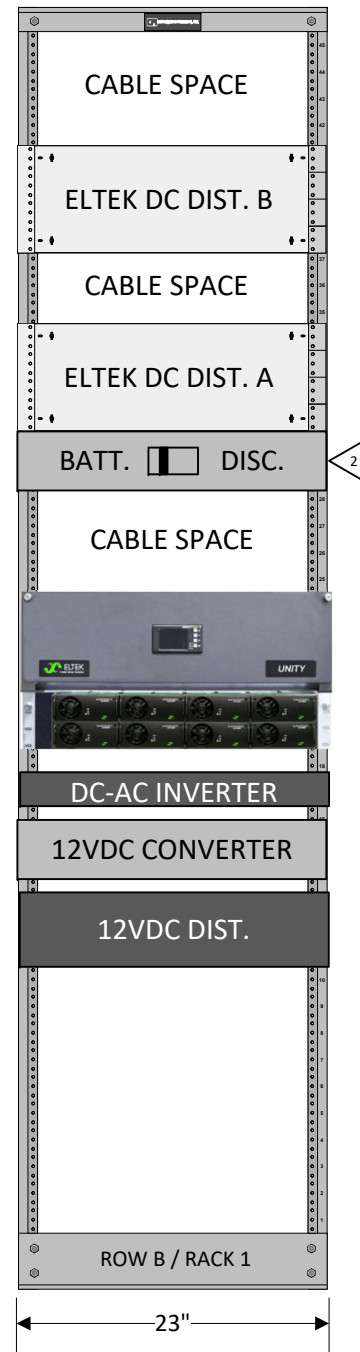
	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS						
	WWW.KITSAP911.ORG			NEWBERRY HILL SITE DC POWER DIAGRAM						
DATE	7-AUG-2023	DWG#	K911-DC-11000		SHEET	42 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE							

# NEWBERRY HILL SITE RACK LAYOUT

EXISTING LAYOUT




REPLACEMENT LAYOUT

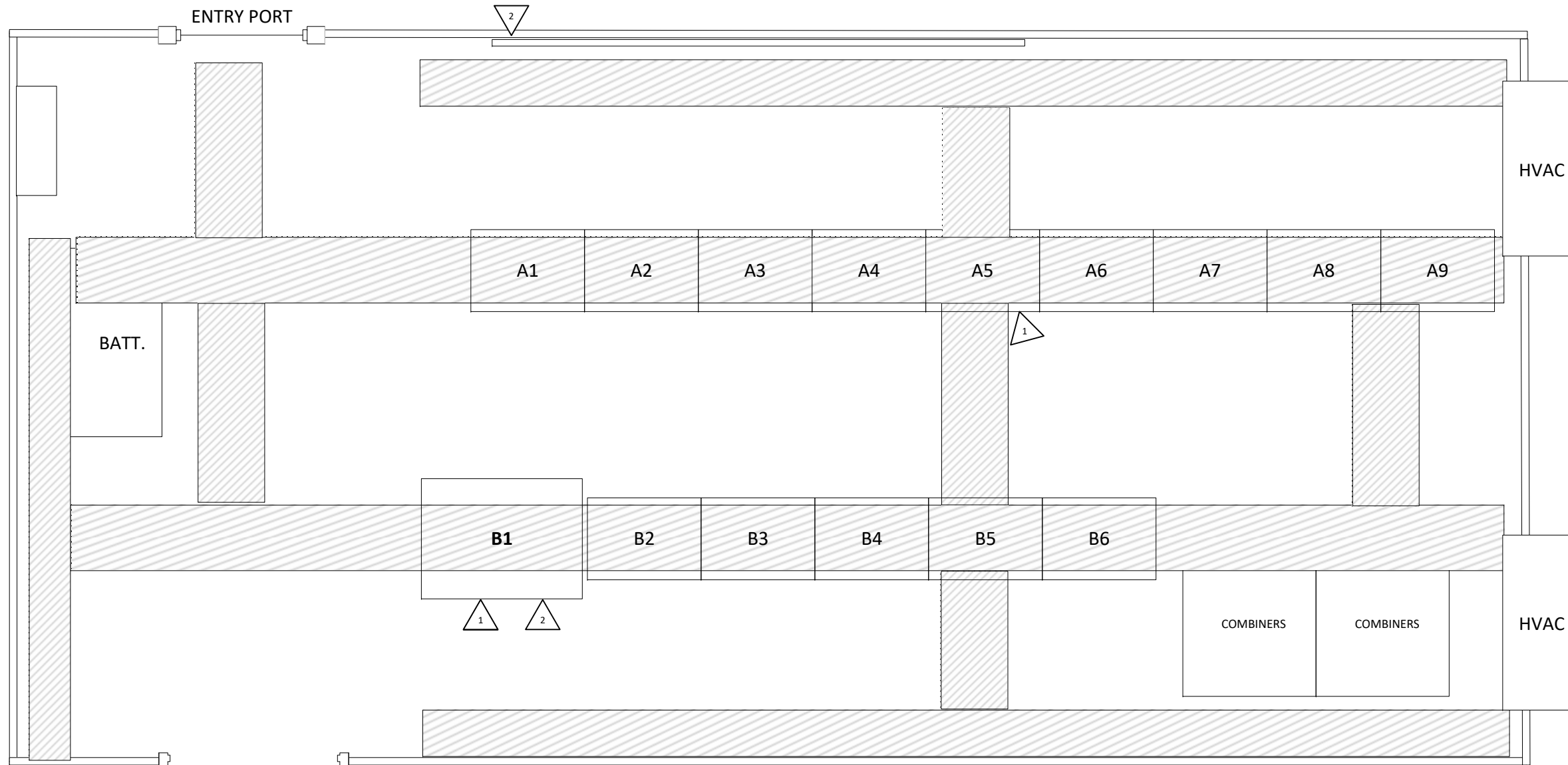


FLAG NOTES:

- 1. KITSAP 911 WILL MOVE THE DC-AC INVERTER, 12 VDC CONVERTER, AND 12VDC DISTRIBUTION PANEL TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION.
- 2. CONTRACTOR MUST RAISE THE BATTERY DISCONNECT (FED FROM THE TOP) USING EXISTING CABLES AFTER REMOVAL OF EXISTING RECTIFIER SYSTEM TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION OF NEW RECTIFIER SYSTEM.

	KITSAP 911		KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS				
	WWW.KITSAP911.ORG				NEWBERRY HILL SITE RACK LAYOUT				
DATE	7-AUG-2023	DWG#	K911-DC-11010						
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE		SHEET	43 OF 64	SIZE	FINAL	-


# NEWBERRY HILL SITE FLOOR PLAN



Row	A	Equipment
Rack	1	
Rack	2	
Rack	3	Eclipse MW (New)
Rack	4	Eclipse MW (Legacy)
Rack	5	Alarm / Video
Rack	6	Constellation MW
Rack	7	Misc
Rack	8	Fire
Rack	9	LE
Row	B	
Rack	1	<b>-48VDC RECT. AND DIST.</b>
Rack	2	
Rack	3	
Rack	4	
Rack	5	
Rack	6	JPS RX Voters
Rack	7	Simulcast Dist. AGC M/S
Rack	8	Harris Channel Bank
Rack	9	Harris Channel Bank

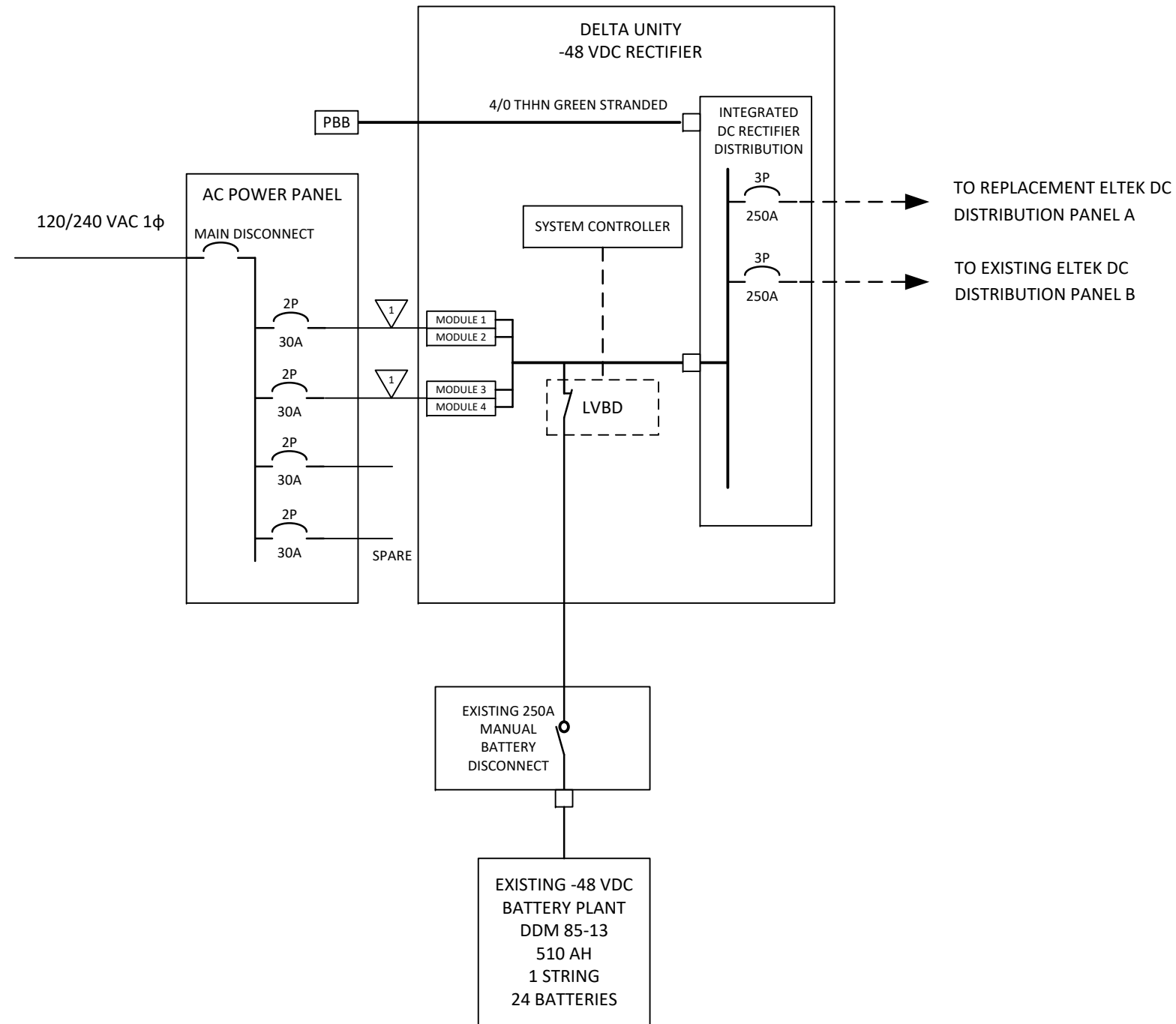
**FLAG NOTES:**

- 1
 1. CONTRACTOR MUST FURNISH AND INSTALL CAT 6 CABLE WITH PLENUM RATED JACKET BETWEEN THE RECTIFIER CONTROLLER IN RACK B1 AND THE SITE ETHERNET SWITCH IN RACK A5. CABLE MUST BE CUT TO LENGTH, TERMINATED, AND TESTED FOR MISWIRING, OPENS, AND SHORTS. ETHERNET CABLE DOES NOT NEED TO BE CERTIFIED. KITSAP 911 WILL CONFIGURE ETHERNET SWITCH PORT AND MAKE THE CONNECTION TO THE SWITCH FOR VERIFICATION TESTING.
- 2
 2. CONTRACTOR MUST FURNISH AND INSTALL ALARM CABLE BETWEEN THE RECTIFIER CONTROLLER AND THE EXISTING 66 TYPE BLOCK AND TEST PROPER OPERATION OF THE ALARMS WITH KITSAP 911.

	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS								
	WWW.KITSAP911.ORG	DATE	7-AUG-2023	DWG#	K911-DC-11020							
PREPARED BY	R. SCOTT PEABODY		SCALE	NONE			SHEET	44 OF 64	SIZE	FINAL	-	-




# ORCHARD HEIGHTS SITE DC POWER DIAGRAM



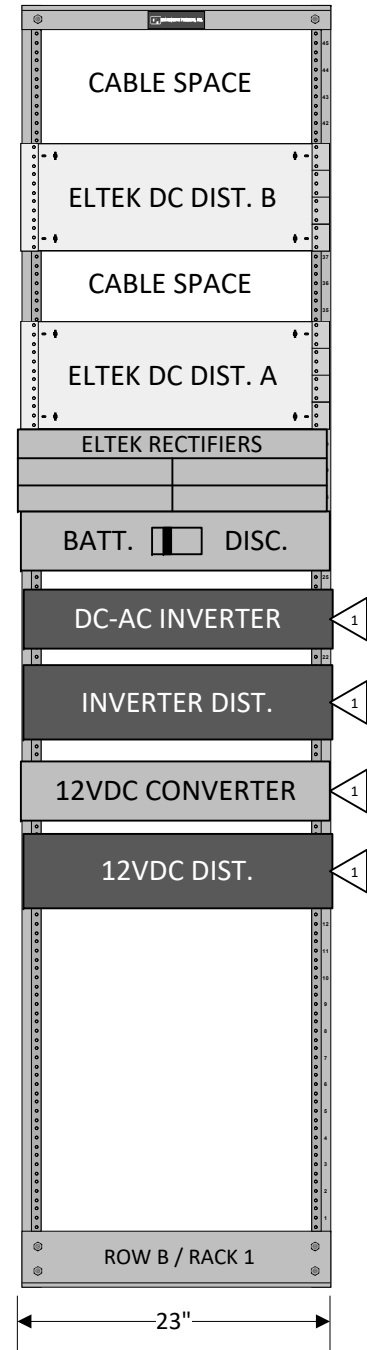
### FLAG NOTES:

- 1. CONTRACTOR MUST FOLLOW MANUFACTURER'S INSTRUCTION TO INSTALL BUS BARS FOR MAKING DUAL FEED INPUT TERMINAL BLOCK CONNECTIONS (SEE FIGURE 37 IN ELTEK INSTALLATION GUIDE REV 3). EXTEND EXISTING 30A 2 POLE CIRCUITS TO NEW UNITY RECTIFIER.

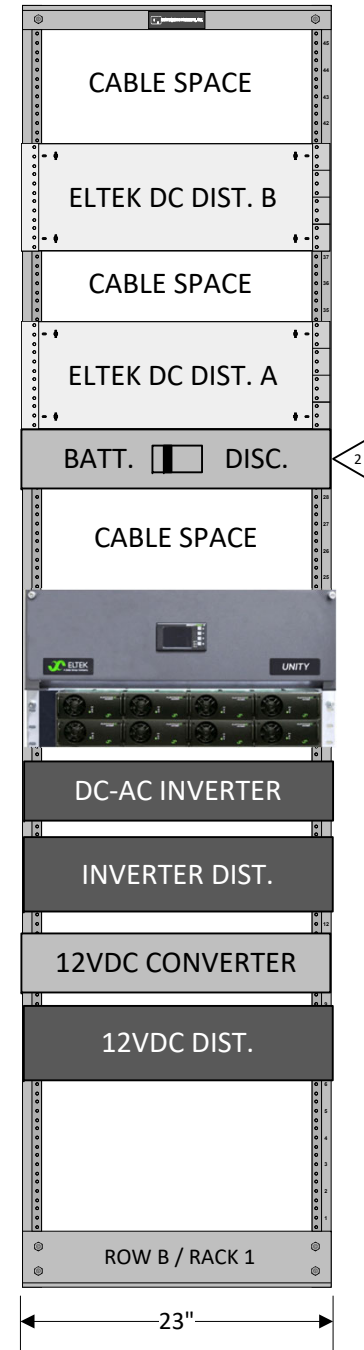
	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS						
	WWW.KITSAP911.ORG			ORCHARD HEIGHTS SITE DC POWER DIAGRAM						
DATE	7-AUG-2023	DWG#	K911-DC-11100		SHEET	45 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE							

# ORCHARD HEIGHTS SITE RACK LAYOUT

EXISTING LAYOUT




REPLACEMENT LAYOUT

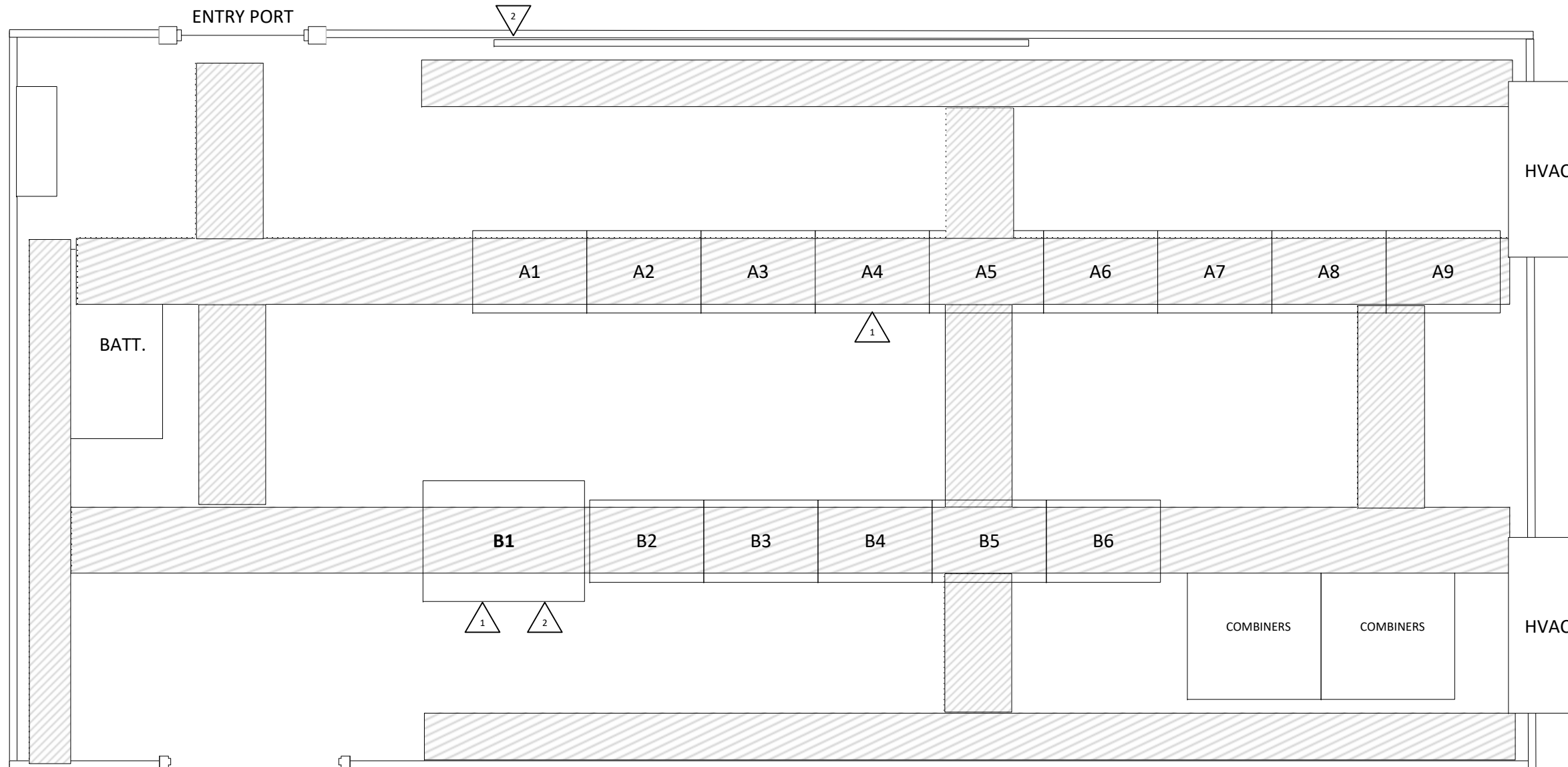


FLAG NOTES:

- 1. KITSAP 911 WILL MOVE THE DC-AC INVERTER, INVERTER DISTRIBUTION PANEL, 12 VDC CONVERTER, AND 12VDC DISTRIBUTION PANEL TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION.
- 2. CONTRACTOR MUST RAISE THE BATTERY DISCONNECT (FED FROM THE TOP) USING EXISTING CABLES AFTER REMOVAL OF EXISTING RECTIFIER SYSTEM TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION OF NEW RECTIFIER SYSTEM.

	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG				ORCHARD HEIGHTS SITE RACK LAYOUT				
DATE	7-AUG-2023	DWG#	K911-DC-11110						
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE	SHEET	46 OF 64	SIZE	FINAL	-	-


# ORCHARD HEIGHTS SITE FLOOR PLAN



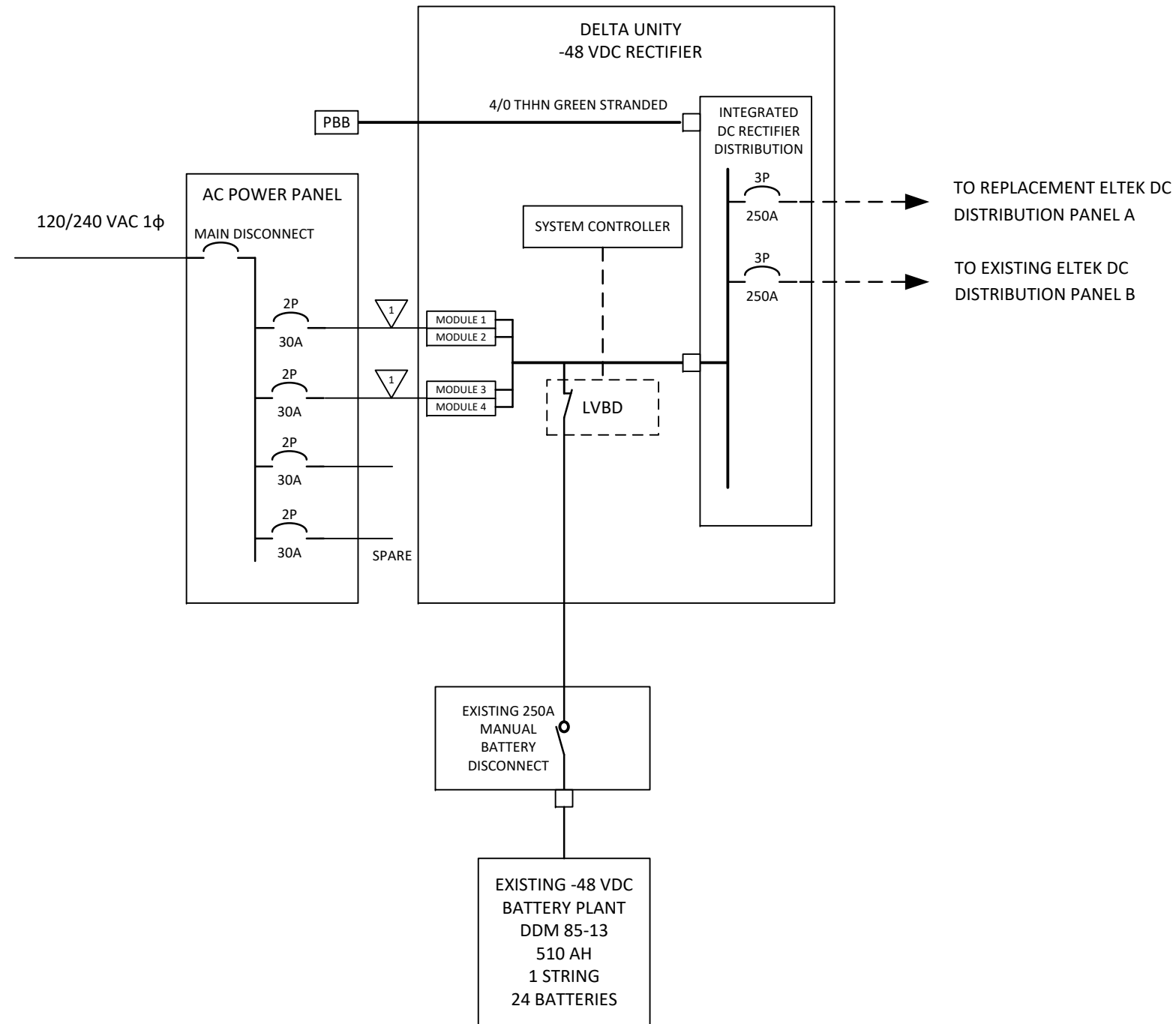
Row	A	Equipment
Rack	1	
Rack	2	
Rack	3	
Rack	4	Alarm
Rack	5	Eclipse MW
Rack	6	Constellation MW
Rack	7	Misc
Rack	8	Fire
Rack	9	LE
Row	B	
Rack	1	<b>-48VDC RECT. AND DIST.</b>
Rack	2	
Rack	3	
Rack	4	
Rack	5	
Rack	6	JPS RX Voters
Rack	7	Simulcast Dist. AGC M/S
Rack	8	Harris Channel Bank
Rack	9	Harris Channel Bank

**FLAG NOTES:**

- 1.** CONTRACTOR MUST FURNISH AND INSTALL CAT 6 CABLE WITH PLENUM RATED JACKET BETWEEN THE RECTIFIER CONTROLLER AND THE SITE ETHERNET SWITCH. CABLE MUST BE CUT TO LENGTH, TERMINATED, AND TESTED FOR MISWIRING, OPENS, AND SHORTS. ETHERNET CABLE DOES NOT NEED TO BE CERTIFIED. KITSAP 911 WILL CONFIGURE ETHERNET SWITCH PORT AND MAKE THE CONNECTION TO THE SWITCH FOR VERIFICATION TESTING.
- 2.** CONTRACTOR MUST FURNISH AND INSTALL ALARM CABLE BETWEEN THE RECTIFIER CONTROLLER AND THE EXISTING 66 TYPE BLOCK AND TEST PROPER OPERATION OF THE ALARMS WITH KITSAP 911.


	<b>KITSAP 911</b>	<small>KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800</small>		<b>KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS</b>			
	<small>WWW.KITSAP911.ORG</small>	DATE <b>7-AUG-2023</b>	DWG# <b>K911-DC-11120</b>	<b>ORCHARD HEIGHTS SITE FLOOR PLAN</b>			
PREPARED BY <b>R. SCOTT PEABODY</b>	SCALE <b>NONE</b>	SHEET <b>47 OF 64</b>	SIZE <b>FINAL</b>	-	-	-	-

# PURDY SITE DC POWER DIAGRAM



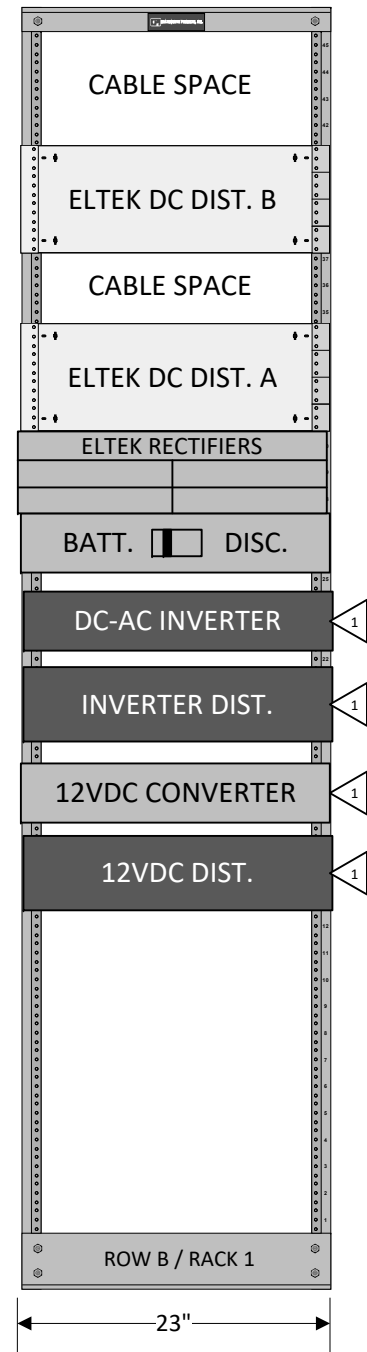
## FLAG NOTES:

1. CONTRACTOR MUST FOLLOW MANUFACTURER'S INSTRUCTION TO INSTALL BUS BARS FOR MAKING DUAL FEED INPUT TERMINAL BLOCK CONNECTIONS (SEE FIGURE 37 IN ELTEK INSTALLATION GUIDE REV 3). EXTEND EXISTING 30A 2 POLE CIRCUITS TO NEW UNITY RECTIFIER.

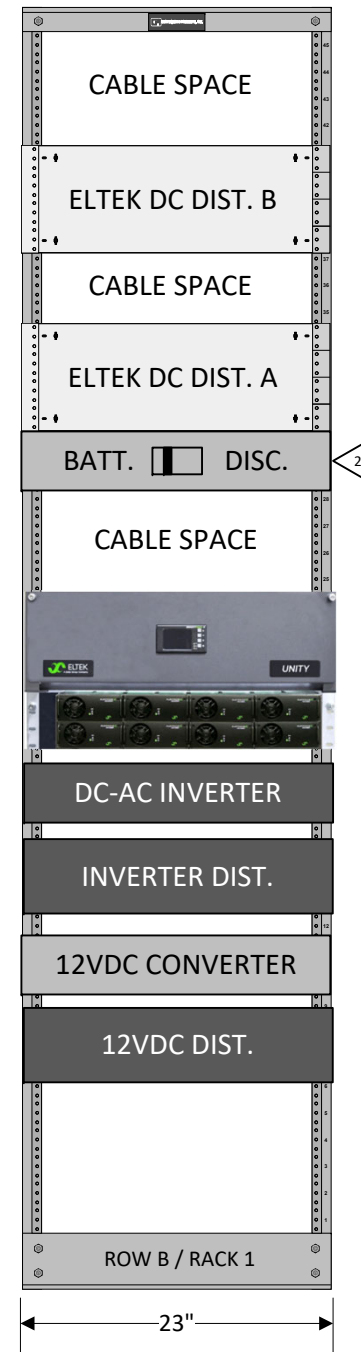
	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG			PURDY SITE DC POWER DIAGRAM					
DATE	7-AUG-2023	DWG#	K911-DC-11200	SHEET	48 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE						

# PURDY SITE RACK LAYOUT

EXISTING LAYOUT




REPLACEMENT LAYOUT



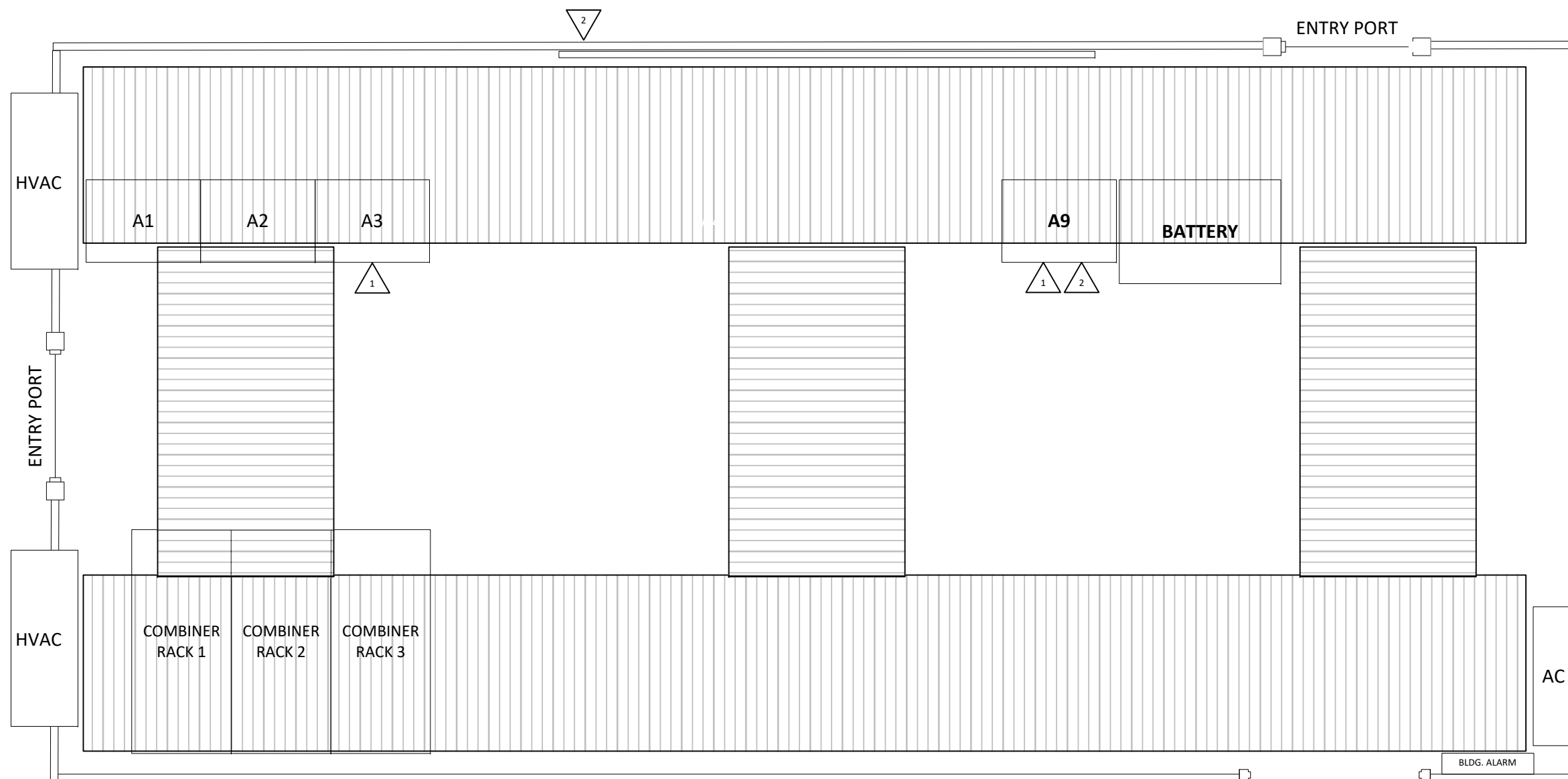
FLAG NOTES:

- 1. KITSAP 911 WILL MOVE THE DC-AC INVERTER, INVERTER DISTRIBUTION PANEL, 12 VDC CONVERTER, AND 12VDC DISTRIBUTION PANEL TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION.
- 2. CONTRACTOR MUST RAISE THE BATTERY DISCONNECT (FED FROM THE TOP) USING EXISTING CABLES AFTER REMOVAL OF EXISTING RECTIFIER SYSTEM TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION OF NEW RECTIFIER SYSTEM.

	KITSAP 911		KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS				
	WWW.KITSAP911.ORG				PURDY SITE RACK LAYOUT				
DATE	7-AUG-2023	DWG#	K911-DC-11210						
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE		SHEET	49 OF 64	SIZE	FINAL	-





# PURDY SITE FLOOR PLAN



Row	A	Equipment
Rack	1	LE, FIRE, TAC
Rack	2	FIRE
Rack	3	GPS, CB, RTU, ETC.
Rack	9	-48VDC RECT. AND DIST.

### FLAG NOTES:

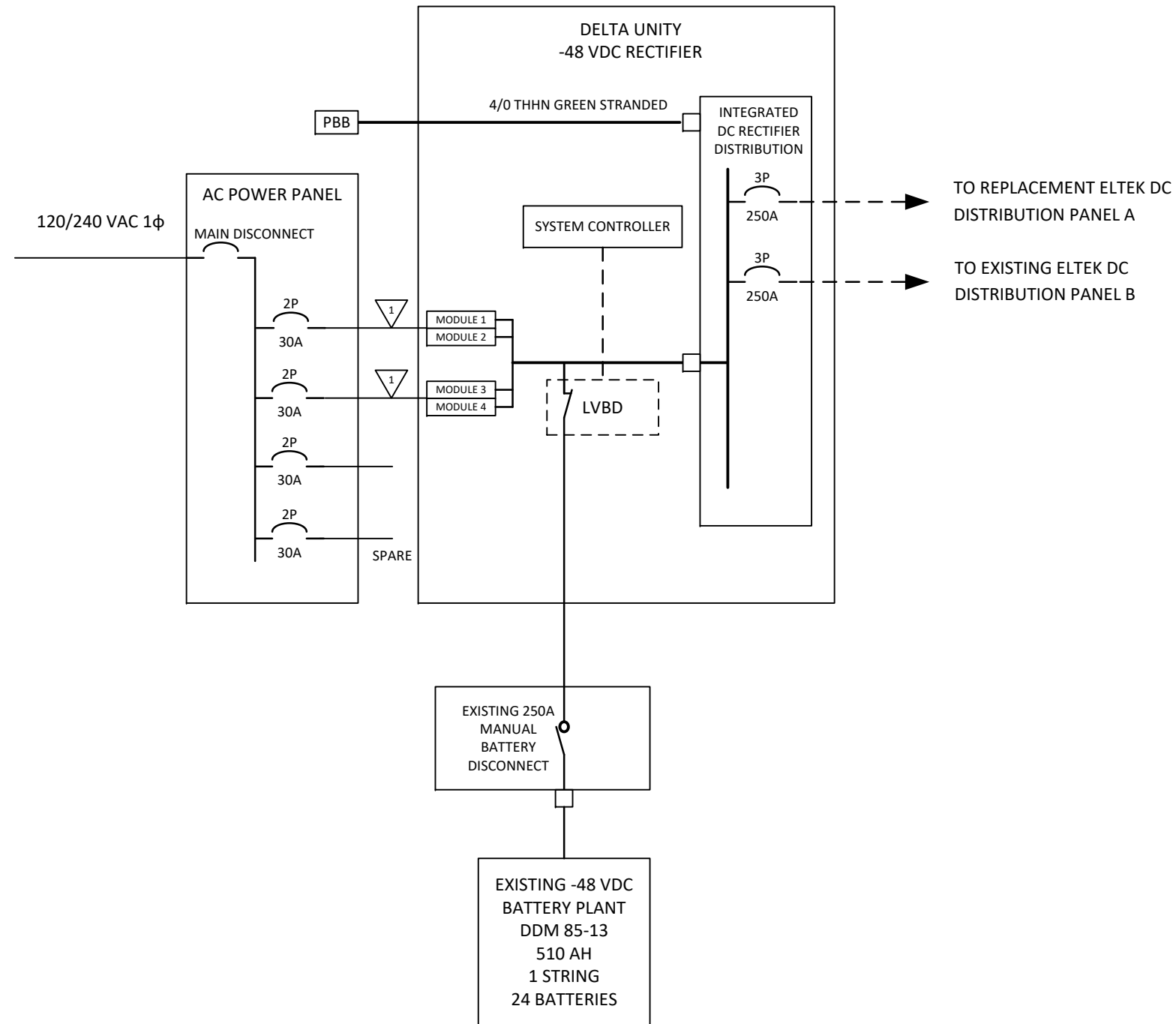
- 

1. CONTRACTOR MUST FURNISH AND INSTALL CAT 6 CABLE WITH PLENUM RATED JACKET BETWEEN THE RECTIFIER CONTROLLER AND THE SITE ETHERNET SWITCH. CABLE MUST BE CUT TO LENGTH, TERMINATED, AND TESTED FOR MISWIRING, OPENS, AND SHORTS. ETHERNET CABLE DOES NOT NEED TO BE CERTIFIED. KITSAP 911 WILL CONFIGURE ETHERNET SWITCH PORT AND MAKE THE CONNECTION TO THE SWITCH FOR VERIFICATION TESTING.
- 

2. CONTRACTOR MUST FURNISH AND INSTALL ALARM CABLE BETWEEN THE RECTIFIER CONTROLLER AND THE EXISTING 66 TYPE BLOCK AND TEST PROPER OPERATION OF THE ALARMS WITH KITSAP 911.


	KITSAP 911		KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS						
	WWW.KITSAP911.ORG		DATE	7-AUG-2023	DWG#	K911-DC-11220					
PREPARED BY	R. SCOTT PEABODY		SCALE	NONE		SHEET	50 OF 64	SIZE	FINAL	-	-

# SIMON POINT SITE DC POWER DIAGRAM



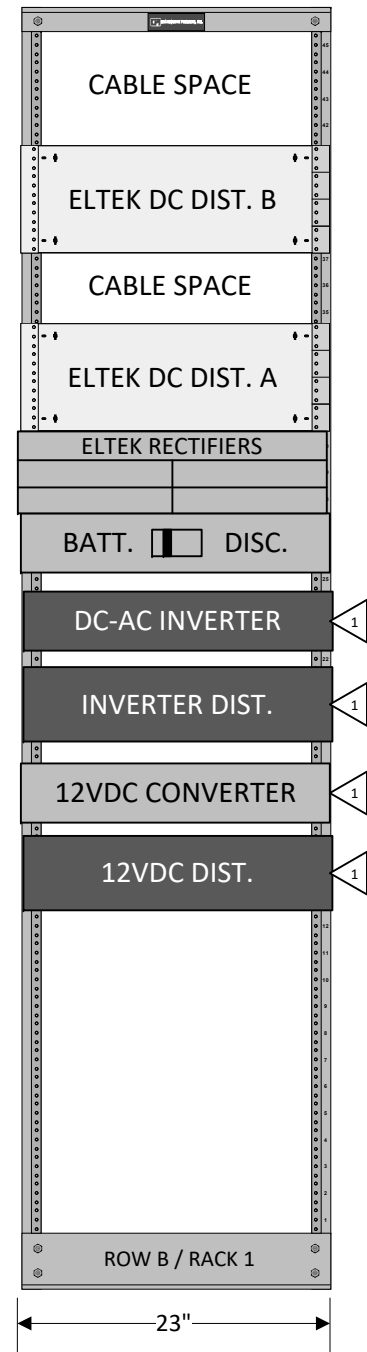
### FLAG NOTES:

1. CONTRACTOR MUST FOLLOW MANUFACTURER'S INSTRUCTION TO INSTALL BUS BARS FOR MAKING DUAL FEED INPUT TERMINAL BLOCK CONNECTIONS (SEE FIGURE 37 IN ELTEK INSTALLATION GUIDE REV 3). EXTEND EXISTING 30A 2 POLE CIRCUITS TO NEW UNITY RECTIFIER.

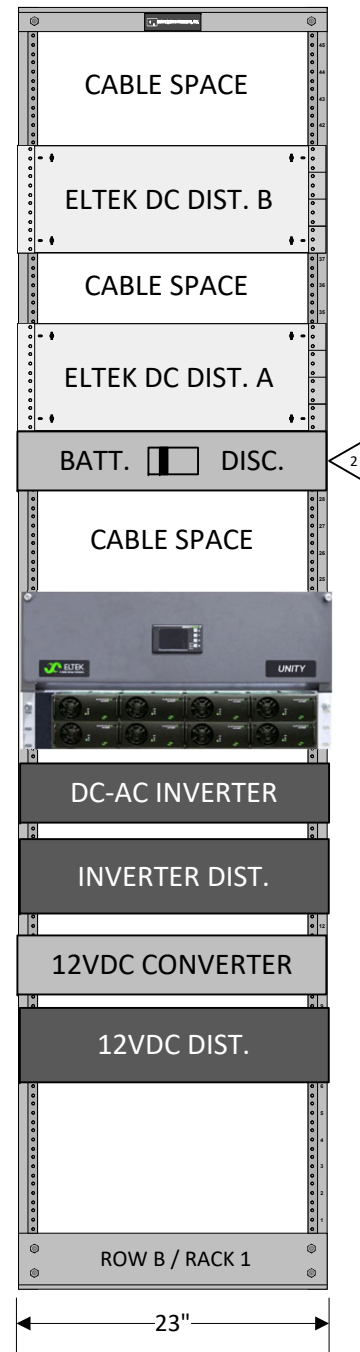
	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS						
	WWW.KITSAP911.ORG			SIMON POINT SITE DC POWER DIAGRAM						
DATE	7-AUG-2023	DWG#	K911-DC-11300		SHEET	51 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE							

# SIMON POINT SITE RACK LAYOUT

EXISTING LAYOUT




REPLACEMENT LAYOUT

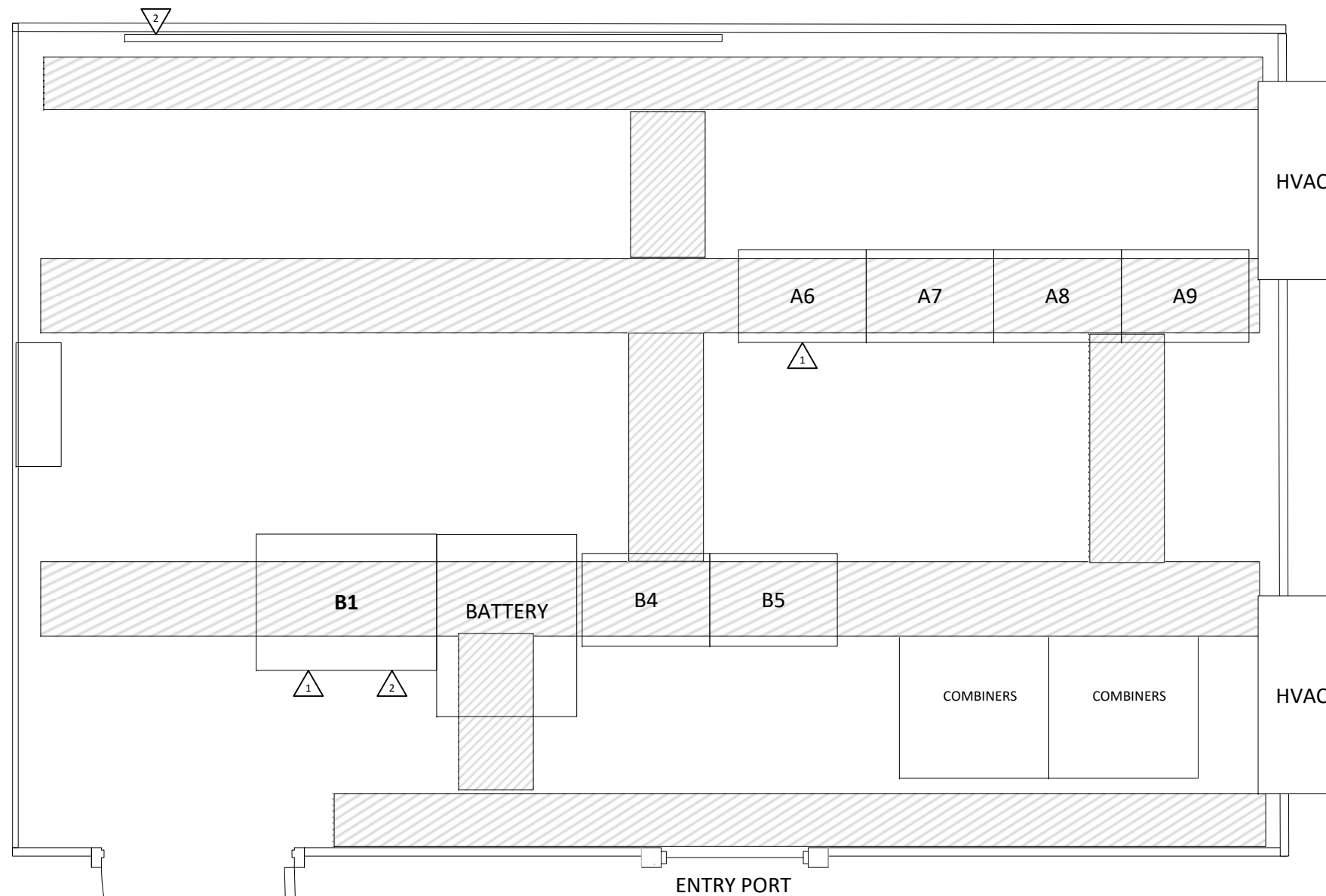


FLAG NOTES:

- 1. KITSAP 911 WILL MOVE THE DC-AC INVERTER, INVERTER DISTRIBUTION PANEL, 12 VDC CONVERTER, AND 12VDC DISTRIBUTION PANEL TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION.
- 2. CONTRACTOR MUST RAISE THE BATTERY DISCONNECT (FED FROM THE TOP) USING EXISTING CABLES AFTER REMOVAL OF EXISTING RECTIFIER SYSTEM TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION OF NEW RECTIFIER SYSTEM.

	KITSAP 911		KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS				
	WWW.KITSAP911.ORG				SIMON POINT SITE RACK LAYOUT				
DATE	7-AUG-2023	DWG#	K911-DC-11310						
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE		SHEET	52 OF 64	SIZE	FINAL	-

# SIMON POINT SITE FLOOR PLAN



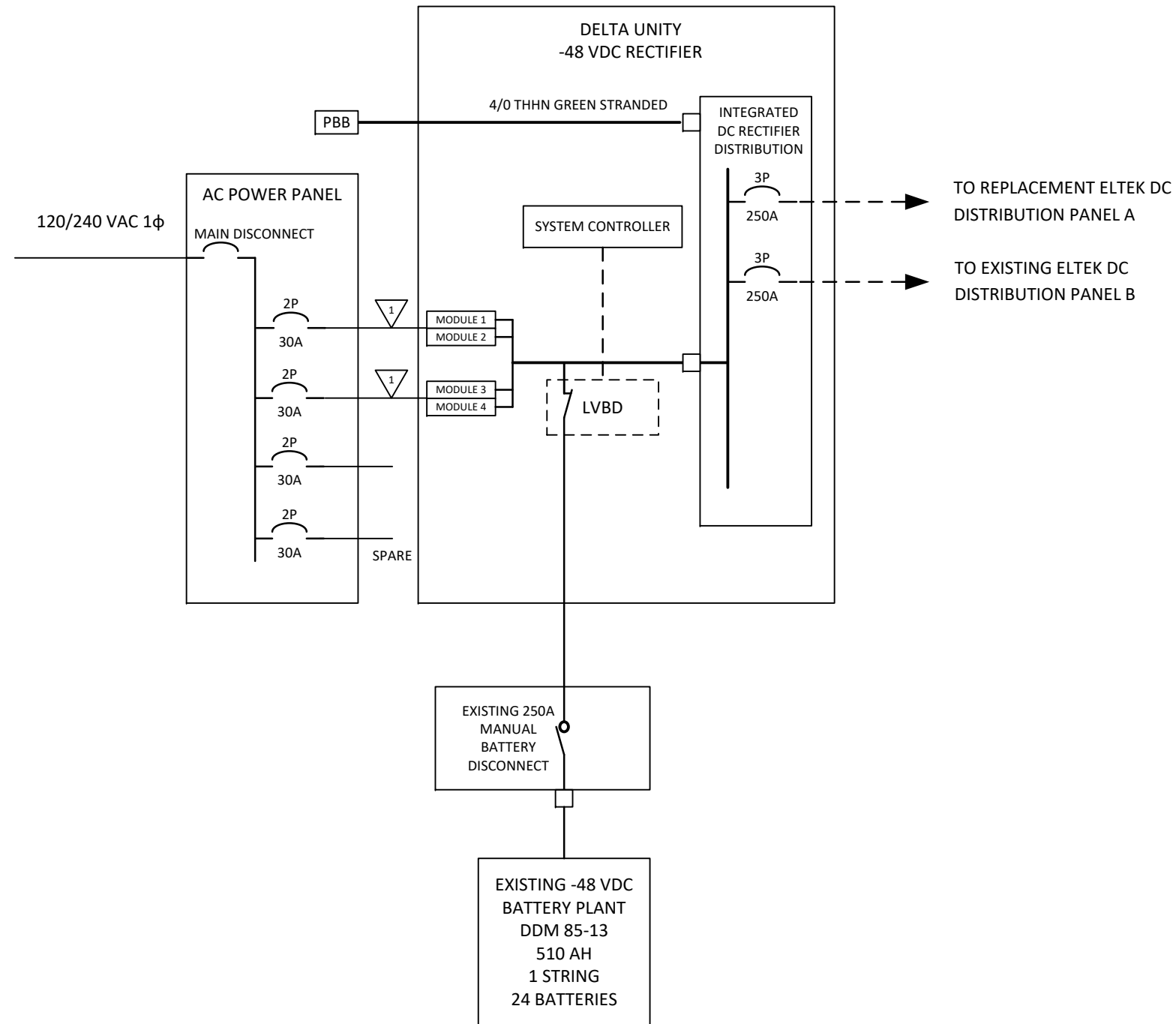
Row A	Equipment
Rack 1	
Rack 2	
Rack 3	
Rack 4	
Rack 5	
Rack 6	Alarm
Rack 7	Misc
Rack 8	Fire
Rack 9	LE
Row B	
Rack 1	<b>-48VDC RECT. AND DIST.</b>
Rack 2	
Rack 3	
Rack 4	Eclipse MW (Legacy)
Rack 5	Eclipse MW (New)
Rack 6	
Rack 7	Simulcast Dist. AGC M/S
Rack 8	Harris Channel Bank
Rack 9	Harris Channel Bank

**FLAG NOTES:**

- 1. CONTRACTOR MUST FURNISH AND INSTALL CAT 6 CABLE WITH PLENUM RATED JACKET BETWEEN THE RECTIFIER CONTROLLER AND THE SITE ETHERNET SWITCH. CABLE MUST BE CUT TO LENGTH, TERMINATED, AND TESTED FOR MISWIRING, OPENS, AND SHORTS. ETHERNET CABLE DOES NOT NEED TO BE CERTIFIED. KITSAP 911 WILL CONFIGURE ETHERNET SWITCH PORT AND MAKE THE CONNECTION TO THE SWITCH FOR VERIFICATION TESTING.
- 2. CONTRACTOR MUST FURNISH AND INSTALL ALARM CABLE BETWEEN THE RECTIFIER CONTROLLER AND THE EXISTING 66 TYPE BLOCK AND TEST PROPER OPERATION OF THE ALARMS WITH KITSAP 911.


	<b>KITSAP 911</b>	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS						
	WWW.KITSAP911.ORG	DATE	7-AUG-2023	DWG#	K911-DC-11320		SIMON POINT SITE FLOOR PLAN			
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE		SHEET	53 OF 64	SIZE	FINAL	-	-

# SUQUAMISH SITE DC POWER DIAGRAM



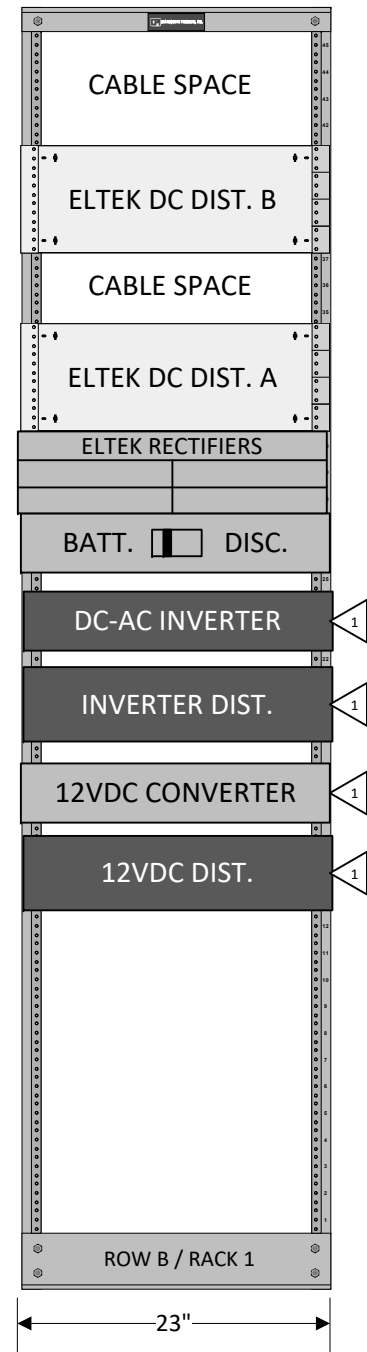
## FLAG NOTES:

1. CONTRACTOR MUST FOLLOW MANUFACTURER'S INSTRUCTION TO INSTALL BUS BARS FOR MAKING DUAL FEED INPUT TERMINAL BLOCK CONNECTIONS (SEE FIGURE 37 IN ELTEK INSTALLATION GUIDE REV 3). EXTEND EXISTING 30A 2 POLE CIRCUITS TO NEW UNITY RECTIFIER.

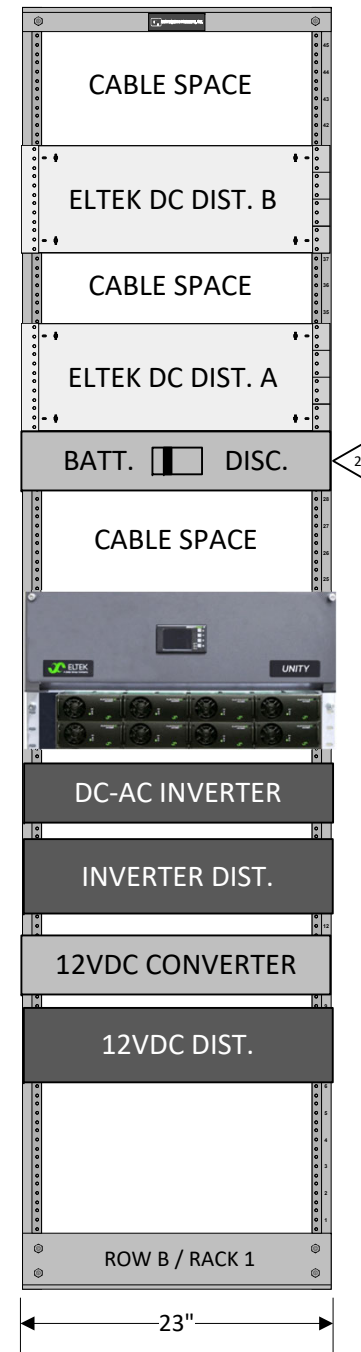
	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG			SUQUAMISH SITE DC POWER DIAGRAM					
DATE	7-AUG-2023	DWG#	K911-DC-11400						
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE	SHEET	54 OF 64	SIZE	FINAL	-	-

# SUQUAMISH SITE RACK LAYOUT

EXISTING LAYOUT




REPLACEMENT LAYOUT



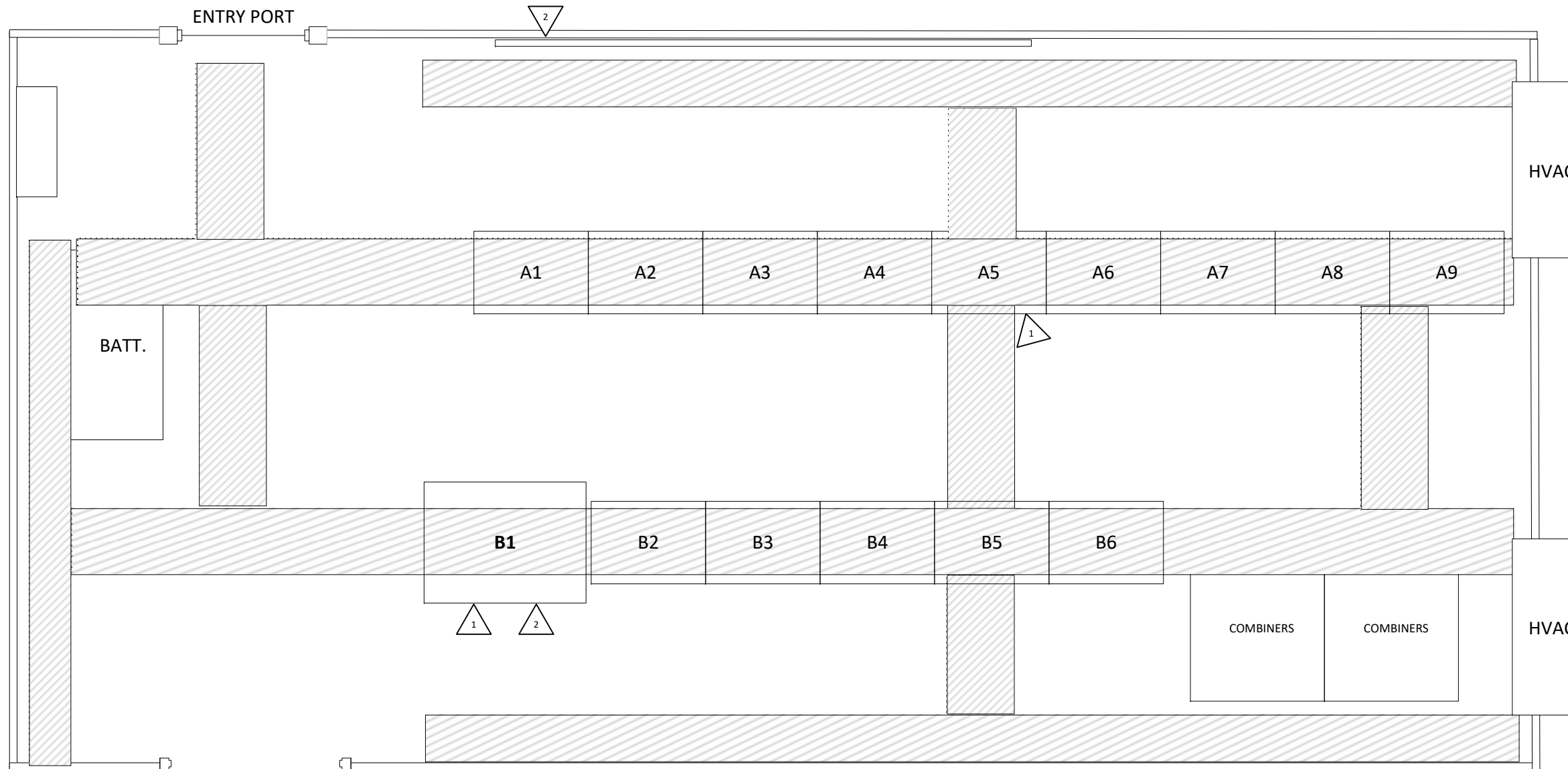
FLAG NOTES:

- 1. KITSAP 911 WILL MOVE THE DC-AC INVERTER, INVERTER DISTRIBUTION PANEL, 12 VDC CONVERTER, AND 12VDC DISTRIBUTION PANEL TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION.
- 2. CONTRACTOR MUST RAISE THE BATTERY DISCONNECT (FED FROM THE TOP) USING EXISTING CABLES AFTER REMOVAL OF EXISTING RECTIFIER SYSTEM TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION OF NEW RECTIFIER SYSTEM.

	KITSAP 911		KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS				
	WWW.KITSAP911.ORG				SUQUAMISH SITE RACK LAYOUT				
DATE	7-AUG-2023	DWG#	K911-DC-11410						
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE		SHEET	55 OF 64	SIZE	FINAL	-




# SUQUAMISH SITE FLOOR PLAN



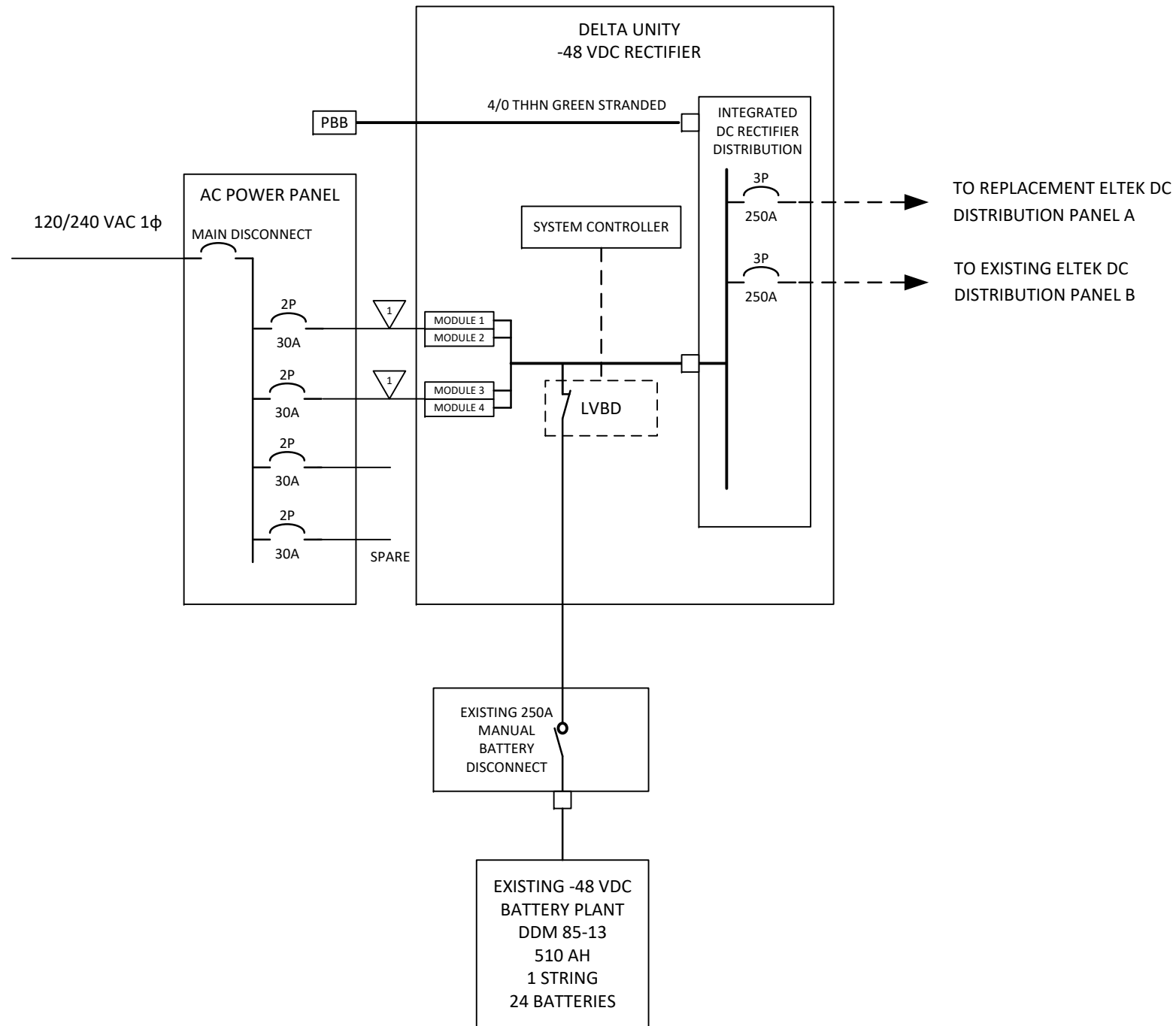
Row	A	Equipment
Rack	1	Misc
Rack	2	Alcatel MW
Rack	3	
Rack	4	Alarm
Rack	5	Eclipse MW
Rack	6	Constellation MW
Rack	7	Misc
Rack	8	Fire
Rack	9	LE
Row	B	
Rack	1	<b>-48VDC RECT. AND DIST.</b>
Rack	2	
Rack	3	
Rack	4	
Rack	5	
Rack	6	JPS RX Voters
Rack	7	Simulcast Dist. AGC M/S
Rack	8	Harris Channel Bank
Rack	9	Harris Channel Bank

**FLAG NOTES:**

- 1.** CONTRACTOR MUST FURNISH AND INSTALL CAT 6 CABLE WITH PLENUM RATED JACKET BETWEEN THE RECTIFIER CONTROLLER IN RACK B1 AND THE SITE ETHERNET SWITCH IN RACK A5. CABLE MUST BE CUT TO LENGTH, TERMINATED, AND TESTED FOR MISWIRING, OPENS, AND SHORTS. ETHERNET CABLE DOES NOT NEED TO BE CERTIFIED. KITSAP 911 WILL CONFIGURE ETHERNET SWITCH PORT AND MAKE THE CONNECTION TO THE SWITCH FOR VERIFICATION TESTING.
- 2.** CONTRACTOR MUST FURNISH AND INSTALL ALARM CABLE BETWEEN THE RECTIFIER CONTROLLER AND THE EXISTING 66 TYPE BLOCK AND TEST PROPER OPERATION OF THE ALARMS WITH KITSAP 911.


	<b>KITSAP 911</b>	<small>KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800</small>		<b>KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS</b>				
	<small>WWW.KITSAP911.ORG</small>	DATE <b>7-AUG-2023</b>	DWG# <b>K911-DC-11420</b>	<b>SUQUAMISH SITE FLOOR PLAN</b>				
PREPARED BY <b>R. SCOTT PEABODY</b>	SCALE <b>NONE</b>	SHEET <b>56 OF 64</b>	SIZE <b>FINAL</b>	-	-	-	-	-

# TEAL LAKE SITE DC POWER DIAGRAM



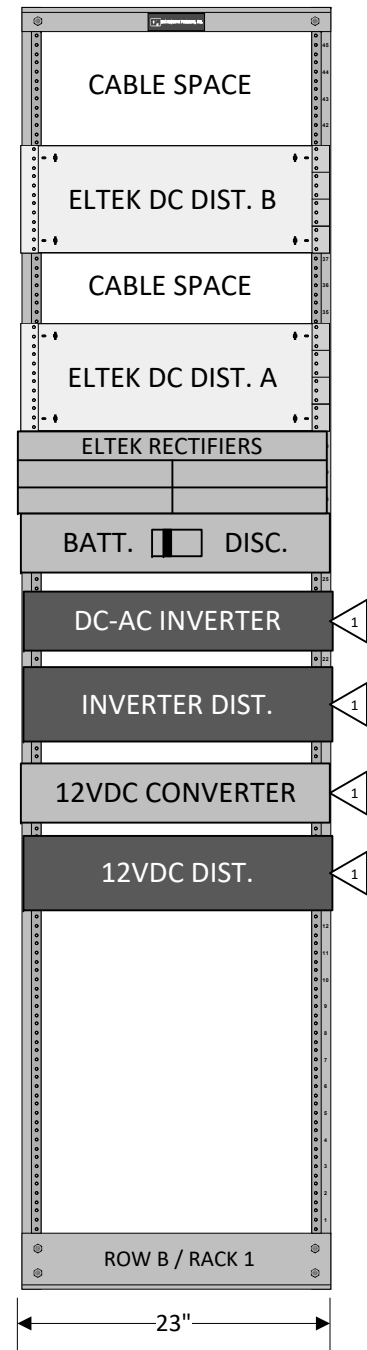
### FLAG NOTES:

1. CONTRACTOR MUST FOLLOW MANUFACTURER'S INSTRUCTION TO INSTALL BUS BARS FOR MAKING DUAL FEED INPUT TERMINAL BLOCK CONNECTIONS (SEE FIGURE 37 IN ELTEK INSTALLATION GUIDE REV 3). EXTEND EXISTING 30A 2 POLE CIRCUITS TO NEW UNITY RECTIFIER.

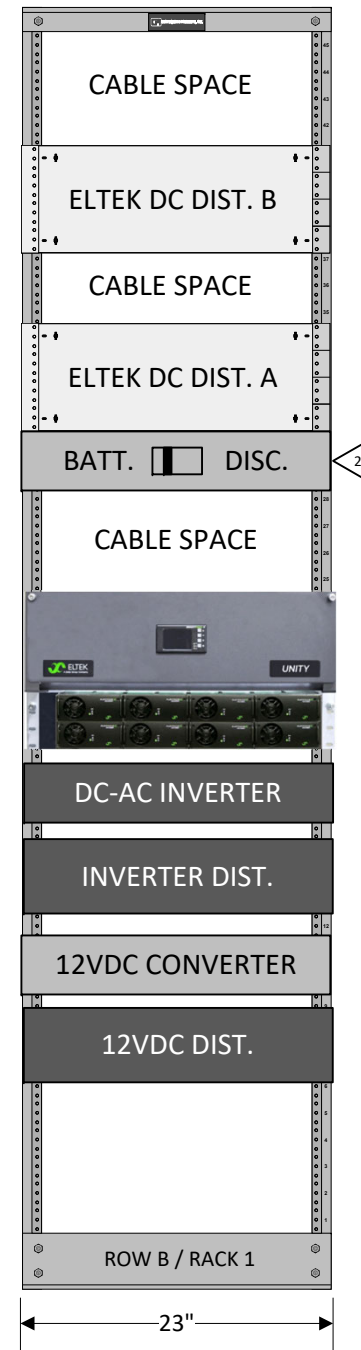
	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS						
	WWW.KITSAP911.ORG			TEAL LAKE SITE DC POWER DIAGRAM						
DATE	7-AUG-2023	DWG#	K911-DC-11500		SHEET	57 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE							

# TEAL LAKE SITE RACK LAYOUT

EXISTING LAYOUT




REPLACEMENT LAYOUT

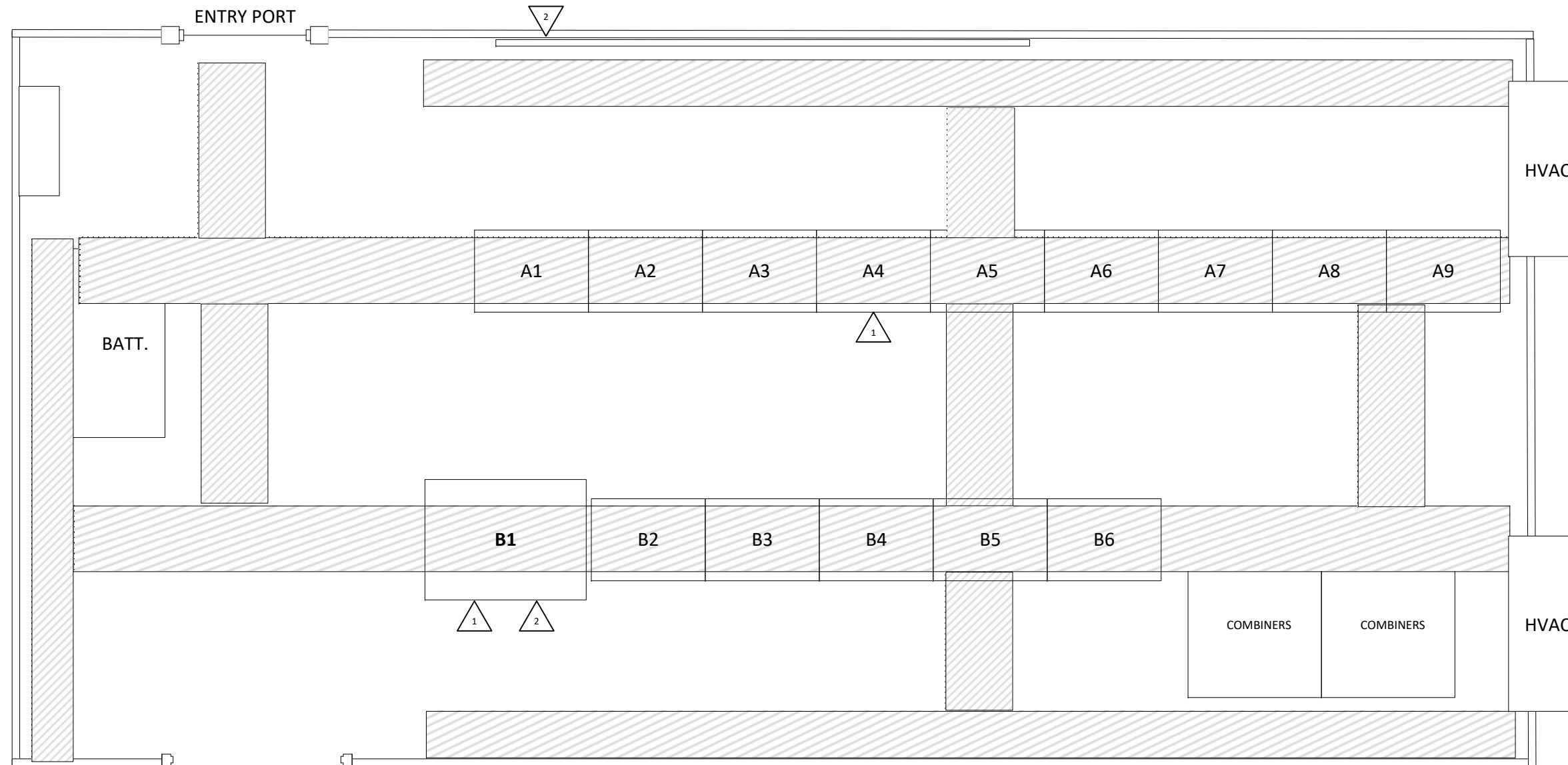


FLAG NOTES:

- 1. KITSAP 911 WILL MOVE THE DC-AC INVERTER, INVERTER DISTRIBUTION PANEL, 12 VDC CONVERTER, AND 12VDC DISTRIBUTION PANEL TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION.
- 2. CONTRACTOR MUST RAISE THE BATTERY DISCONNECT (FED FROM THE TOP) USING EXISTING CABLES AFTER REMOVAL OF EXISTING RECTIFIER SYSTEM TO MAKE ROOM FOR REPLACEMENT RECTIFIER SYSTEM PRIOR TO CONTRACTOR INSTALLATION OF NEW RECTIFIER SYSTEM.

	KITSAP 911		KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS				
	WWW.KITSAP911.ORG				TEAL LAKE SITE RACK LAYOUT				
DATE	7-AUG-2023	DWG#	K911-DC-11510						
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE		SHEET	58 OF 64	SIZE	FINAL	-

# TEAL LAKE SITE FLOOR PLAN




Row	A	Equipment
Rack	1	
Rack	2	
Rack	3	
Rack	4	Alarm
Rack	5	Eclipse MW
Rack	6	Constellation MW
Rack	7	Misc
Rack	8	Fire
Rack	9	LE

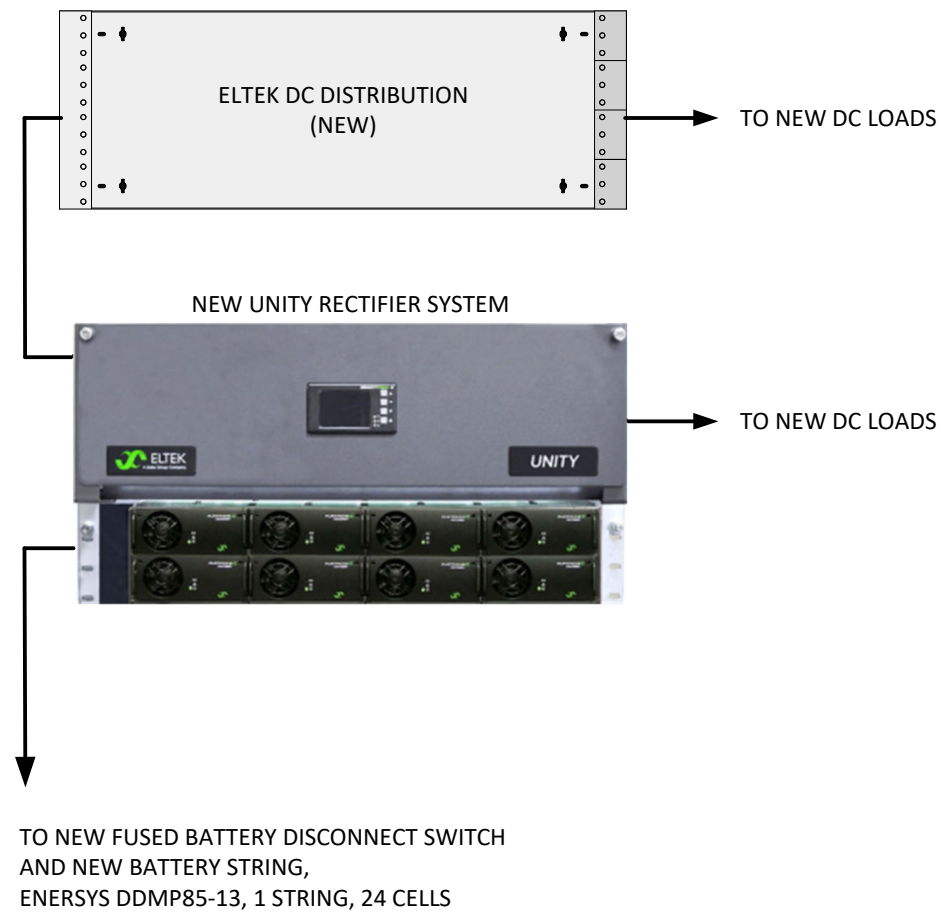
Row	B	Equipment
Rack	1	<b>-VDC RECT. AND DIST.</b>
Rack	2	
Rack	3	
Rack	4	
Rack	5	
Rack	6	JPS RX Voters
Rack	7	Simulcast Dist. AGC M/S
Rack	8	Harris Channel Bank
Rack	9	Harris Channel Bank


**FLAG NOTES:**

- 1.** CONTRACTOR MUST FURNISH AND INSTALL CAT 6 CABLE WITH PLENUM RATED JACKET BETWEEN THE RECTIFIER CONTROLLER IN RACK B1 AND THE SITE ETHERNET SWITCH IN RACK A4. CABLE MUST BE CUT TO LENGTH, TERMINATED, AND TESTED FOR MISWIRING, OPENS, AND SHORTS. ETHERNET CABLE DOES NOT NEED TO BE CERTIFIED. KITSAP 911 WILL CONFIGURE ETHERNET SWITCH PORT AND MAKE THE CONNECTION TO THE SWITCH FOR VERIFICATION TESTING.
- 2.** CONTRACTOR MUST FURNISH AND INSTALL ALARM CABLE BETWEEN THE RECTIFIER CONTROLLER AND THE EXISTING 66 TYPE BLOCK AND TEST PROPER OPERATION OF THE ALARMS WITH KITSAP 911.

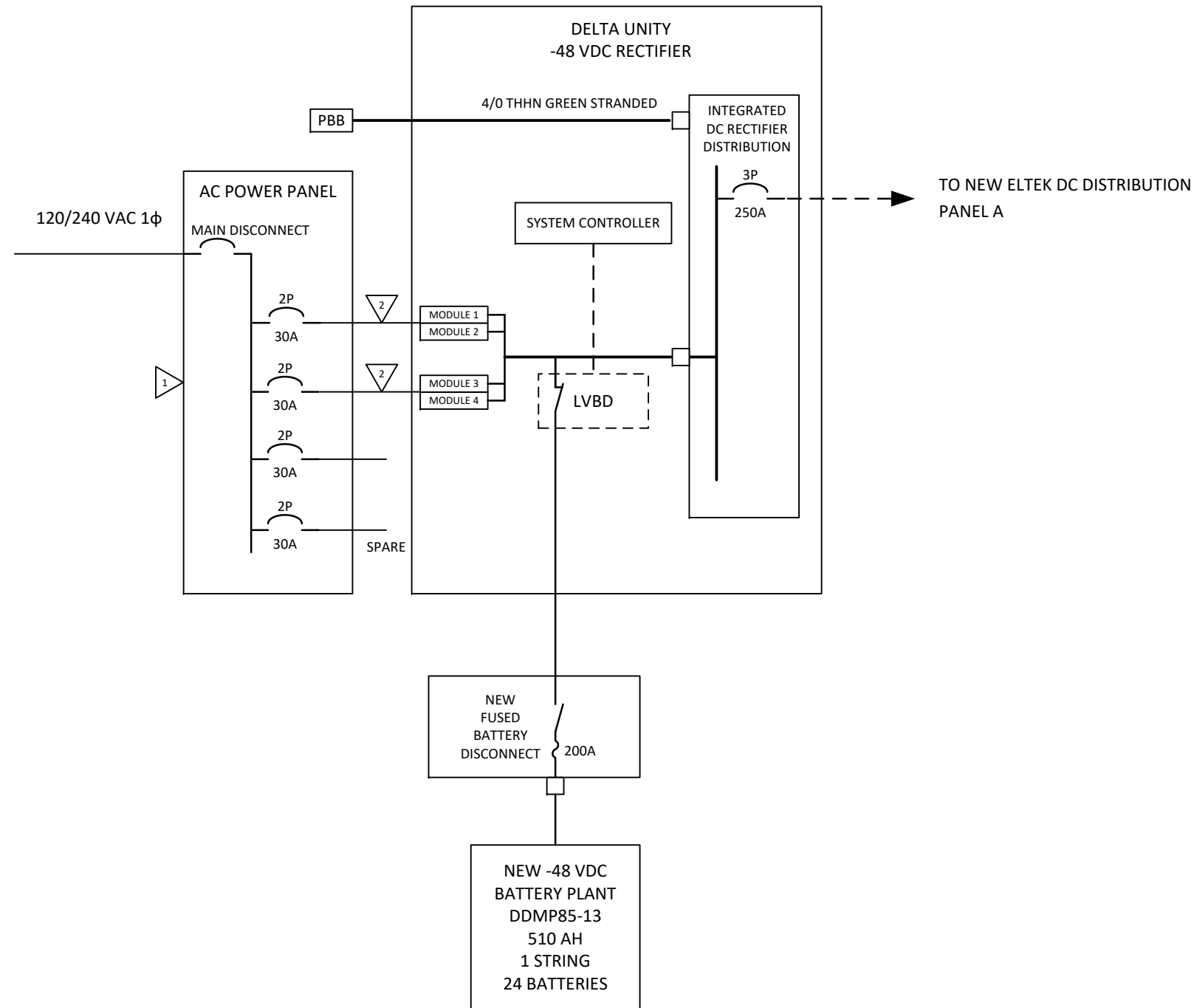
	<b>KITSAP 911</b>	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS								
	WWW.KITSAP911.ORG	DATE	7-AUG-2023	DWG#	K911-DC-11520							
PREPARED BY	R. SCOTT PEABODY		SCALE	NONE			SHEET	59 OF 64	SIZE	FINAL	-	-

# NEW SITE DC SYSTEM OVERVIEW




	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS						
	WWW.KITSAP911.ORG			NEW SITE DC POWER OVERVIEW						
DATE	7-AUG-2023	DWG#	K911-DC-11600		SHEET	60 OF 64	SIZE	FINAL	-	-
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE							

# FUTURE SITE DC POWER DIAGRAM



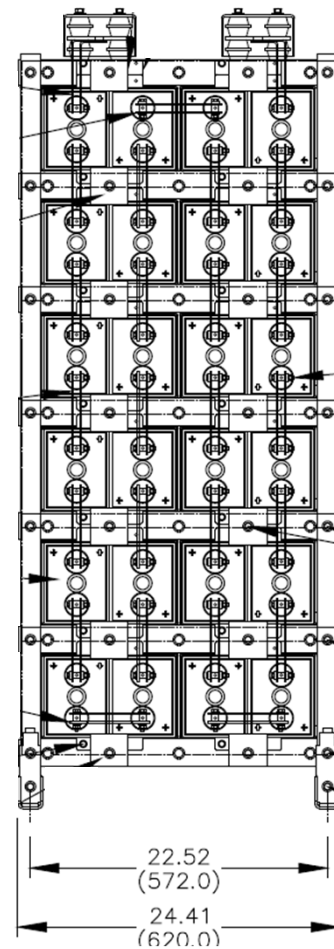
### FLAG NOTES:


1. AC POWER PANEL, 30A BREAKERS, WIRE, CONDUIT, FITTINGS, AND JUNCTION BOX PROVIDED BY OTHERS. JUNCTION BOX TO BE MOUNTED ON THE CEILING ABOVE THE DC POWER RACK.
2. CONTRACTOR MUST FOLLOW MANUFACTURER'S INSTRUCTION TO INSTALL BUS BARS FOR MAKING DUAL FEED INPUT TERMINAL BLOCK CONNECTIONS (SEE FIGURE 37 IN ELTEK INSTALLATION GUIDE REV 3). EXTEND EXISTING 30A 2 POLE CIRCUITS TO NEW UNITY RECTIFIER.

	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS						
	WWW.KITSAP911.ORG			NEW SITE DC POWER DIAGRAM						
DATE	7-AUG-2023	DWG#	K911-DC-16110							
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE		SHEET	61 OF 64	SIZE	FINAL	-	-

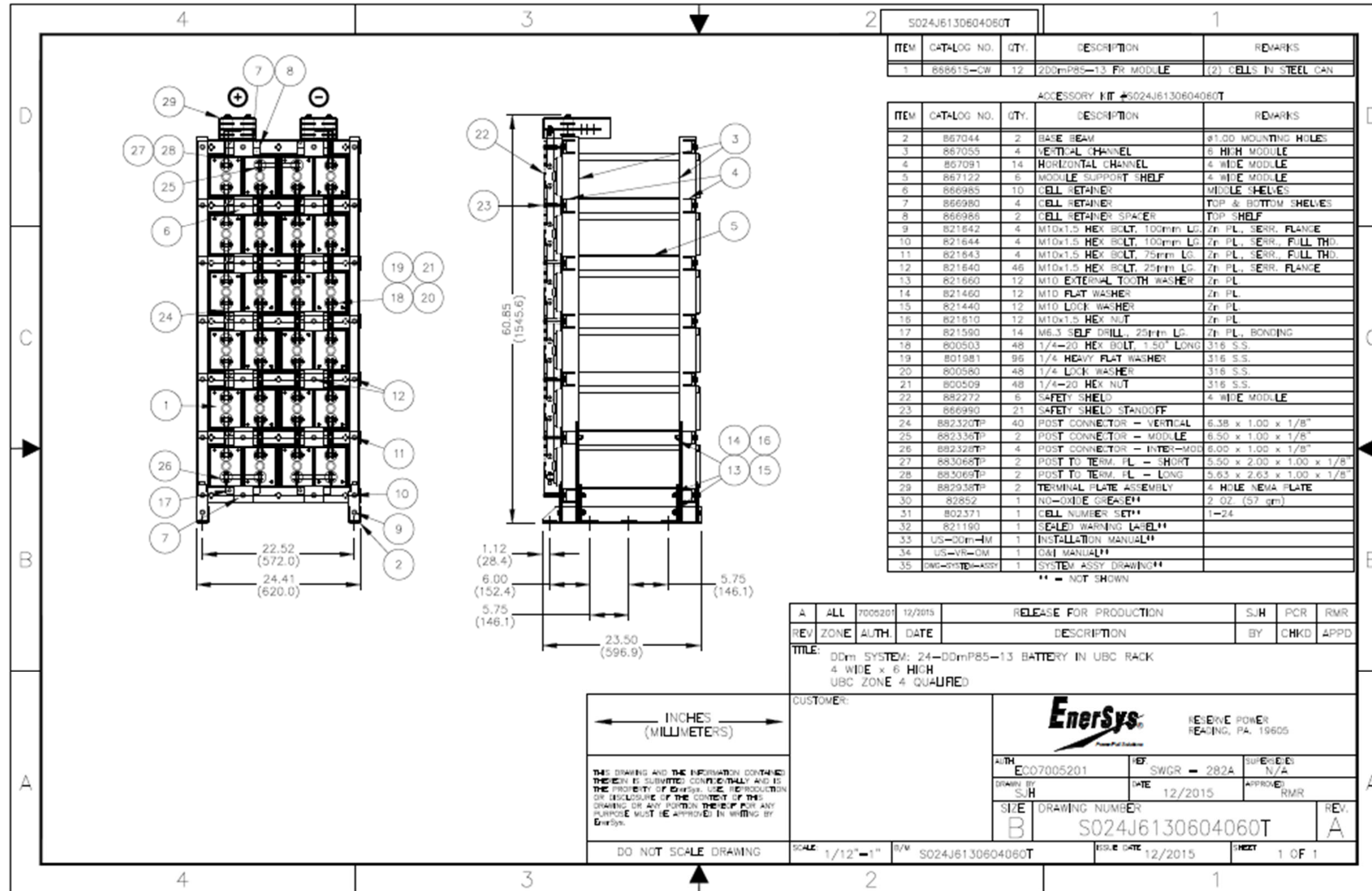


# NEW SITE RACK LAYOUT



	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS					
	WWW.KITSAP911.ORG			NEW SITE RACK LAYOUT					
DATE	7-AUG-2023	DWG#	K911-DC-11620						
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE	SHEET	62 OF 64	SIZE	FINAL	-	-

# NEW SITE BATTERY DIAGRAM



ITEM	CATALOG NO.	QTY.	DESCRIPTION	REMARKS
1	866615-CW	12	ZDDmP85-13 FR MODULE	(2) CELLS IN STEEL CAN

ACCESSORY KIT #S024J6130604060T				
ITEM	CATALOG NO.	QTY.	DESCRIPTION	REMARKS
2	867044	2	BASE BEAM	Ø1.00 MOUNTING HOLES
3	867055	4	VERTICAL CHANNEL	6 HIGH MODULE
4	867091	14	HORIZONTAL CHANNEL	4 WIDE MODULE
5	867122	6	MODULE SUPPORT SHELF	4 WIDE MODULE
6	866985	10	CELL RETAINER	MIDDLE SHELVES
7	866980	4	CELL RETAINER	TOP & BOTTOM SHELVES
8	866986	2	CELL RETAINER SPACER	TOP SHELF
9	821842	4	M10x1.5 HEX BOLT, 100mm LG.	Zn PL, SERR. FLANGE
10	821844	4	M10x1.5 HEX BOLT, 100mm LG.	Zn PL, SERR., FULL THD.
11	821843	4	M10x1.5 HEX BOLT, 75mm LG.	Zn PL, SERR., FULL THD.
12	821840	46	M10x1.5 HEX BOLT, 25mm LG.	Zn PL, SERR. FLANGE
13	821860	12	M10 EXTERNAL TOOTH WASHER	Zn PL
14	821460	12	M10 FLAT WASHER	Zn PL
15	821440	12	M10 LOCK WASHER	Zn PL
16	821810	12	M10x1.5 HEX NUT	Zn PL
17	821590	14	M6.3 SELF DRILL, 25mm LG.	Zn PL, BONDING
18	800503	48	1/4-20 HEX BOLT, 1.50" LONG	316 S.S.
19	801981	96	1/4 HEAVY FLAT WASHER	316 S.S.
20	800580	48	1/4 LOCK WASHER	316 S.S.
21	800509	48	1/4-20 HEX NUT	316 S.S.
22	882272	6	SAFETY SHELD	4 WIDE MODULE
23	866990	21	SAFETY SHELD STANDOFF	
24	882320TP	40	POST CONNECTOR - VERTICAL	6.38 x 1.00 x 1/8"
25	882336TP	2	POST CONNECTOR - MIDDLE	6.50 x 1.00 x 1/8"
26	882328TP	4	POST CONNECTOR - INTER-MOD	6.00 x 1.00 x 1/8"
27	883066TP	2	POST TO TERM. PL - SHORT	5.50 x 2.00 x 1.00 x 1/8"
28	883069TP	2	POST TO TERM. PL - LONG	5.63 x 2.63 x 1.00 x 1/8"
29	882938TP	2	TERMINAL PLATE ASSEMBLY	4 HOLE NEMA PLATE
30	82852	1	NO-OXIDE GREASE**	2 OZ. (57 gm)
31	802371	1	CELL NUMBER SET**	1-24
32	821190	1	SEALED WARNING LABEL**	
33	US-DDm-IM	1	INSTALLATION MANUAL**	
34	US-VR-DM	1	O&I MANUAL**	
35	DMC-SYSTEM-APP	1	SYSTEM ASSY DRAWING**	

\*\* = NOT SHOWN

REV	ZONE	AUTH.	DATE	DESCRIPTION	BY	CHKD	APPD
A	ALL	7005201	12/2015	RELEASE FOR PRODUCTION	SJH	PCR	RMR

TITLE: DDm SYSTEM: 24-DDmP85-13 BATTERY IN UBC RACK  
4 WIDE x 6 HIGH  
UBC ZONE 4 QUAIRED

CUSTOMER: **EnerSys** RESERVE POWER FEASING, PA. 19605

AUTH: ECO7005201	REV: SWGR - 2824	SUPERSEDED: N/A
DRAWN BY: SJH	DATE: 12/2015	APPROVED: RMR
SIZE: B	DRAWING NUMBER: S024J6130604060T	REV: A

SCALE: 1/12"=1" B/W S024J6130604060T ISSUE DATE: 12/2015 SHEET: 1 OF 1

NOT TO SCALE

	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800		KITSAP 911 - CENCOM DC POWER SYSTEMS REPLACEMENTS			
	WWW.KITSAP911.ORG	DATE: 7-AUG-2023	DWG#: K911-DC-11630	NEW SITE BATTERY DIAGRAM			
PREPARED BY: R. SCOTT PEABODY	SCALE: NONE	SHEET: 63 OF 64	SIZE: FINAL	-	-	-	-

# NEW SITE FUSED BATTERY DISCONNECT SWITCH

0.31in 8mm RAD  
0.16in 4mm RAD  
0.50in 13mm

E, F, G, H KNOCKOUTS

17.13 435

SEE DETAIL ABOVE

29.00 737

19.13 486

0.31in / 8mm KNOCKOUT DIA TYP. (2)

11.50 292

18.50 470

D, E, F, G KNOCKOUTS

8.25 210

A, B, C KNOCKOUTS

E, F, G, H KNOCKOUTS

0.28 DIA KNOCKOUT TYP. (7)

D, E, F, G KNOCKOUTS

A, B, C KNOCKOUT

**FUSED DC DISCONNECT ASSY:**  
MODEL No.: EJS117-33  
SERIAL No.: CUST.PD#/MFG.SALES#

**SWITCH:**  
NEMA TYPE 1 ENCLOSURE  
2-POLE 250 Vdc 200 Adc  
Square-D p/n: H224N  
Supplier p/n: R00010-04

**SEISMIC NOTES:**  
USE (4) 1/4" DIA GRADE 5 STEEL MOUNTING BOLTS @ HOLES AA MAX. CONFIGURED WEIGHT 55 lb FOR THE PURPOSE OF DETERMINING SEISMIC ANCHORAGE REQUIREMENTS. FOR ALL OTHER APPLICATIONS, CONTACT SQUARE-D COMPANY.

**WIRING DIAGRAM**

**TERMINAL LUGS ‡**

AMPERES	MAX WIRE	MIN WIRE	TYPE
200	250 xCMIL	#6 AWG	AL OR CU

**KNOCKOUTS**

SYMBOL	CONDUIT SIZE		DIAMETER	
	in	mm	in	mm
A	.50	13	.88	22
B	.75	19	1.13	29
C	1.00	25	1.38	35
D	1.25	32	1.75	45
E	1.50	38	2.00	51
F	2.00	51	2.50	64
G	2.50	64	3.00	76
H	3.00	76	3.50	89

CATALOG NUMBER	VOLTAGE RATINGS	WIRING DIAGRAM	HORSEPOWER RATINGS													
			240Vac				480Vac				600Vac				250 Vdc	600 Vdc
			STD	MAX	STD	MAX	STD	MAX	STD	MAX	STD	MAX	STD	STD		
H224N	240Vac; 250Vdc	B	15	25#	-	60#	-	-	-	-	-	-	-	-	40	-

**Square-D SPECIFICATIONS:**  
FINISH - GRAY BAKED ENAMEL  
UL LISTED - FILE E-2875  
ALL NEUTRALS - INSULATED GROUNDABLE  
SUITABLE FOR USE AS SERVICE EQUIPMENT  
SHORT CIRCUIT CURRENT RATINGS:  
10,000 AMPERES WITH CLASS H OR K FUSES  
200,000 AMPERES WITH CLASS R FUSES HAVING CLASS R REJECTION KITS INSTALLED OR CLASS J FUSES  
WHEN MOUNTING THESE SWITCHES, ALLOW 4.00in / 102mm MIN. CLEARANCE BETWEEN ENCLOSURES FOR OPENING OF SIDE HINGED DOOR

‡ LUGS SUITABLE FOR 60°C OR 75°C COPPER OR ALUMINUM CONDUCTORS

**DUAL DIMENSIONS in mm**

THIRD ANGLE PROJECTION	DRAWN BY MCR 030920	TITLE 200A FUSED DC DISCONNECT SWITCH OUTLINE: NEMA-1 ENCLOSURE (Square-D p/n: H224N)
ELECTRONIC APPROVAL SIGNATURES MAINTAINED BY MFG ENR LTD.	UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:	DRAWING No JE0544-33 REV A B
REV ENR No DATE	SCALE NTS	PART No EJS117-33 SHEET 1 OF 1

FILENAME [JE0544-33.RevA.prt]

**FLAG NOTES:**

- 1. SQUARE D HAS UPDATED THE PART NUMBER TO VH224N.

NOT TO SCALE

	KITSAP 911	KITSAP 911 911 CARVER ST. BREMERTON, WA 98312 360 307-5800	KITSAP 911 – CENCOM DC POWER SYSTEMS REPLACEMENTS				
	WWW.KITSAP911.ORG		NEW SITE FUSED BATTERY DISCONNECT SWITCH				
DATE	7-AUG-2023	DWG#	K911-DC-11640				
PREPARED BY	R. SCOTT PEABODY	SCALE	NONE				
SHEET	64 OF 64	SIZE	FINAL	-	-	-	