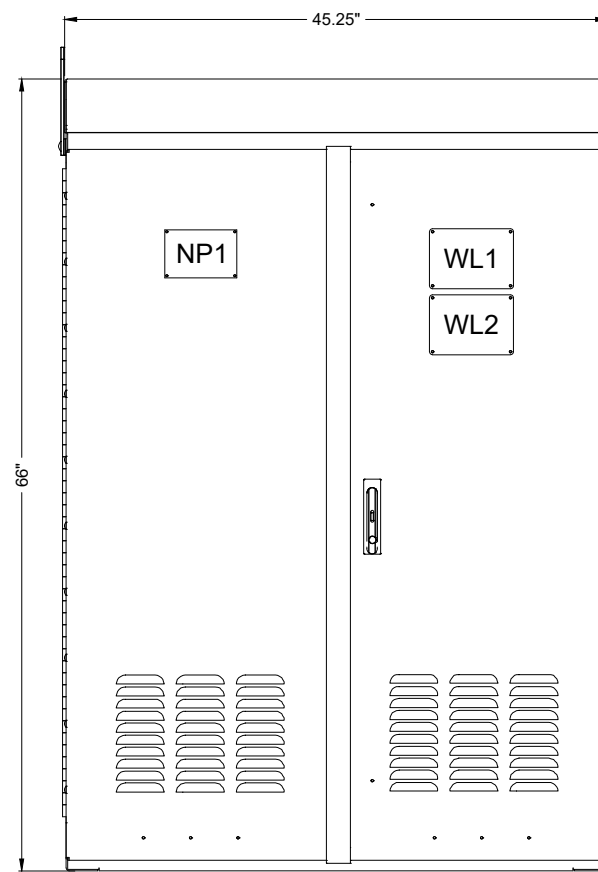
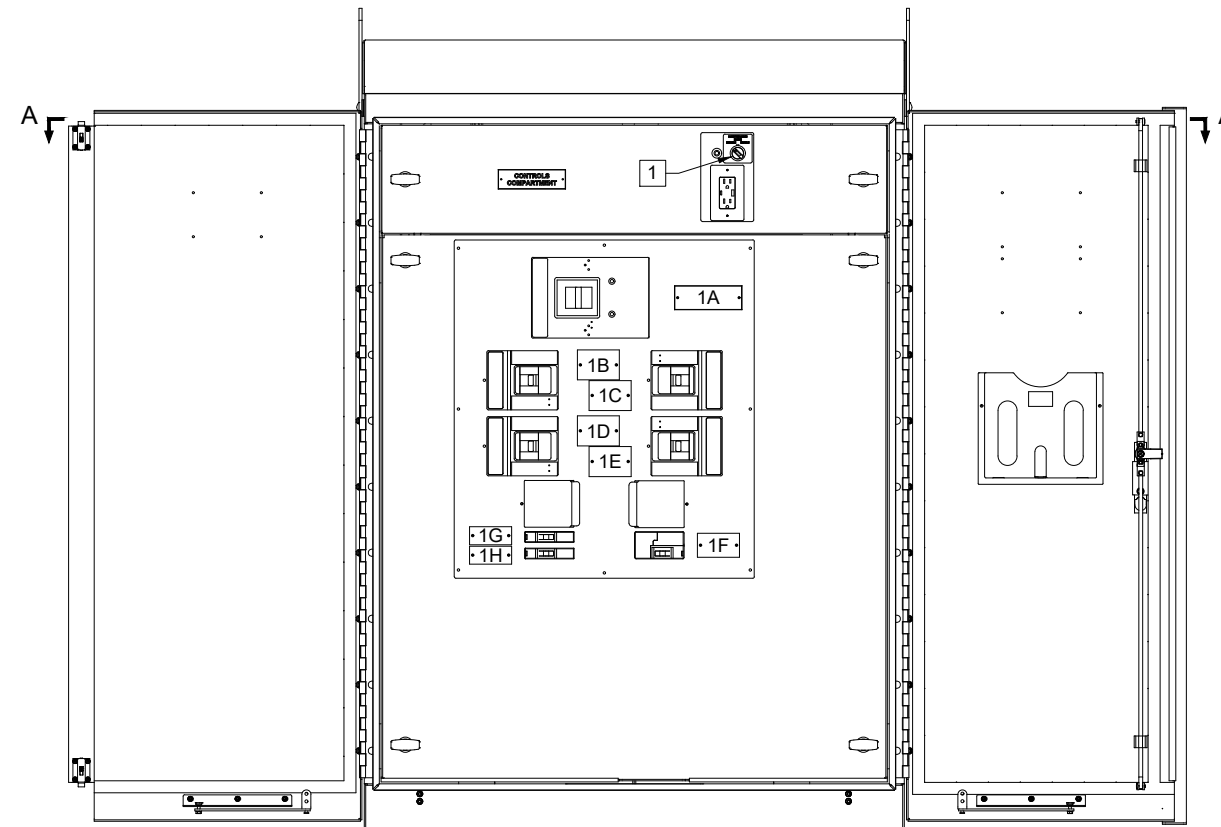




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FRONT VIEW
(DOORS CLOSED)



FRONT VIEW
(SHOWN WITH OPEN DOORS)

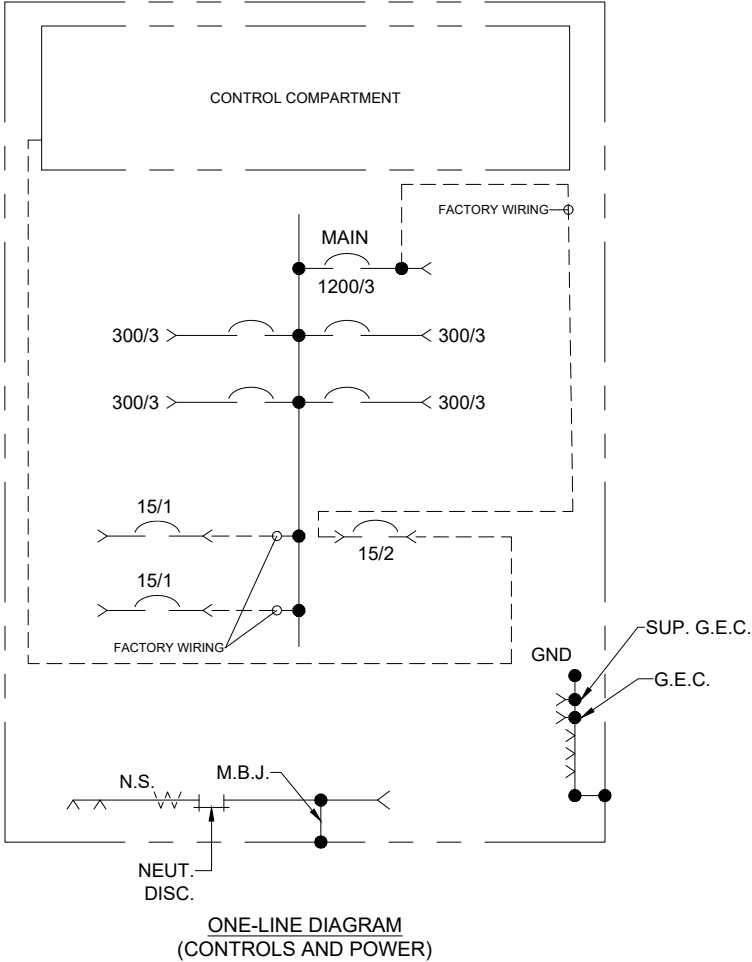
PRODUCT DESCRIPTION & RATINGS:

- PRODUCT TYPE
 - EV-1 (SWITCHBOARD)
- UTILITY INFORMATION
 - METER BEFORE DISCONNECT (HOT SEQUENCE)
- POWER SYSTEM DATA
 - INCOMING - BOTTOM FEED
- BUS SYSTEM DATA
 - SILVER PLATED COPPER MAIN BUS
 - DENSITY RATED AT 1000A PER SQUARE INCH
 - 98% CONDUCTIVITY RATED IN ACCORDANCE w/ UL891
- ENCLOSURE DATA
 - 0.125" ALUMINUM CONSTRUCTION
 - ENCLOSURE SHALL CONFORM TO INGRESS PROTECTION REQUIREMENTS IN ACCORDANCE WITH TYPE-3R
 - ENCLOSURE SHALL BE TAMPER-RESISTANT
 - DOOR HANDLES ARE EQUIPPED WITH PADLOCK HASP
 - FINISH SHALL BE WHITE
 - FRONT ACCESSIBLE ONLY
- CODE STANDARDS
 - UL891
 - CSA-C22.2 No. 244
 - SUITABLE FOR USE AS SERVICE EQUIPMENT
- NAMEPLATES
 - LAMICOID TYPE, WHITE w/ BLACK LETTERS
- ACCESSORIES
 - ENCLOSURE HEATER W/ HYGROSTAT CONTROL
- LEGEND
 1. ARC-FLASH REDUCTION SWITCH

 LINCOLN ELECTRIC PRODUCTS CO., INC. 947 LEHIGH AVENUE, UNION, NJ 07083 WWW.LE1949.COM MAIN (908) 688-2900	CUSTOMER	PROJECT CHARGER STATION	DRAWING TITLE FRONT VIEW		DESIGNATION EV-1	CONFIGURATION ID N/A	JOB # 30167	DRAWN BY SC	DATE 09/21/2023		SHEET NUMBER 1 OF 6	
			SHORT CIRCUIT RATING 65kA. SYM. RMS		VOLTAGE 480Y/277V AC		AMPERAGE 1200A	SYSTEM 3ϕ, 4W	BUS MATERIAL COPPER	ENCLOSURE TYPE-3R	REV 4	DRAWING NUMBER 30167SB01

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SCHEMATIC SCHEDULE	
REFERENCE	WIRING SCHEMATIC PART NUMBER
MAIN	EVWDAC-014
CONTROLS COMPARTMENT	EVWDCK-001
SOURCE WIRING	EVWDACXS-01-01
HEATER	EVWDAC-001-01





LINCOLN ELECTRIC

PRODUCTS CO., INC.

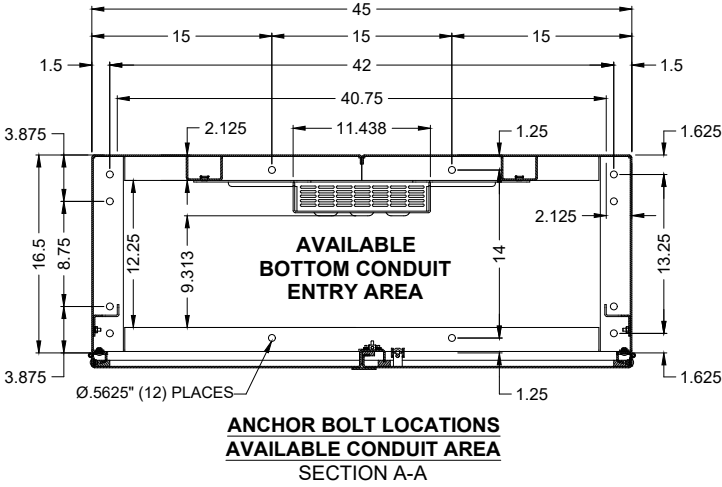
947 LEHIGH AVENUE, UNION, NJ 07083

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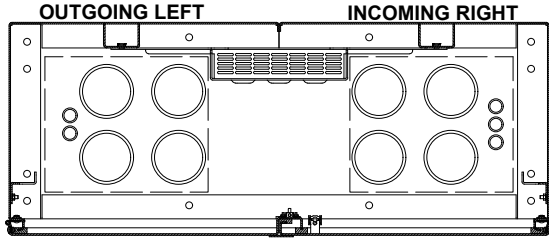
CUSTOMER	PROJECT	CHARGER STATION	DRAWING TITLE		DESIGNATION	CONFIGURATION ID		JOB #	DRAWN BY	DATE		SHEET NUMBER
			ONE-LINE DIAGRAM		EV-1	N/A		30167	SC	09/21/2023		2 OF 6
			SHORT CIRCUIT RATING		VOLTAGE		AMPERAGE	SYSTEM	BUS MATERIAL	ENCLOSURE	REV	DRAWING NUMBER
			65kA. SYM. RMS		480Y/277V AC		1200A	3ϕ, 4W	COPPER	TYPE-3R	4	30167SB01

DEVICE SCHEDULE															
NP	DESIGNATION	DEVICE MANUFACTURER	FRAME RATING	TRIP RATING/ TYPE	# OF POLES	DEVICE CAT. NO.	LUG INFORMATION							CABLE ENTRY	NOTES
							QTY.	PHASES	QTY.	NEUTRAL	QTY.	GROUND	TYPE		
1A	MAIN	EATON	1200A	1200A LSIG W/ ARMS	3	PDG53M1200E5RN	1	(4) #4/0-500 KCMIL	1	(4) #2-600 KCMIL	-	-	MECHANICAL	BOTTOM	- PADLOCK HASPS (CAT.#: PDG5XPLKT) - MECHANICAL LUGS (CAT.#: PDG5X1TA1201) - NEUTRAL SENSOR (CAT.#: PDG5XNCTB1200)
-	G.E.C.	-	-	-	-	-	-	-	-	-	2	(1) #6-350 KCMIL	MECHANICAL	BOTTOM	
1B	CHARGING CABINET	EATON	400A	300A TM	3	HKD3400F	1	(1) #250-500 KCMIL	1	(4) #2-600 KCMIL	1	(1) #6-350 KCMIL	MECHANICAL	BOTTOM	- PADLOCK HASPS (CAT. #: PLK3) - MECHANICAL LUGS (CAT. #: PDG3X3TA350) - TRIP UNIT (CAT. #: KT3300T)
1C	CHARGING CABINET	EATON	400A	300A TM	3	HKD3400F	1	(1) #250-500 KCMIL			1	(1) #6-350 KCMIL	MECHANICAL	BOTTOM	
1D	CHARGING CABINET	EATON	400A	300A TM	3	HKD3400F	1	(1) #250-500 KCMIL			1	(1) #6-350 KCMIL	MECHANICAL	BOTTOM	
1E	CHARGING CABINET	EATON	400A	300A TM	3	HKD3400F	1	(1) #250-500 KCMIL			1	(1) #6-350 KCMIL	MECHANICAL	BOTTOM	
1F	CONTROLS COMPARTMENT DISCONNECT	EATON	15A	15A TFF	2	PDG22M0015TFFL	1	(1) #14-1/0 AWG	-	-	1	(1) #14-1/0 AWG	MECHANICAL	BOTTOM	
1G	SPARE	EATON	15A	15A TFF	1	PDG21M0015TFFL	1	(1) #14-1/0 AWG	1	(1) #14-1/0 AWG	1	(1) #14-1/0 AWG	MECHANICAL	BOTTOM	
1H	SPARE	EATON	15A	15A TFF	1	PDG21M0015TFFL	1	(1) #14-1/0 AWG	1	(1) #14-1/0 AWG	1	(1) #14-1/0 AWG	MECHANICAL	BOTTOM	

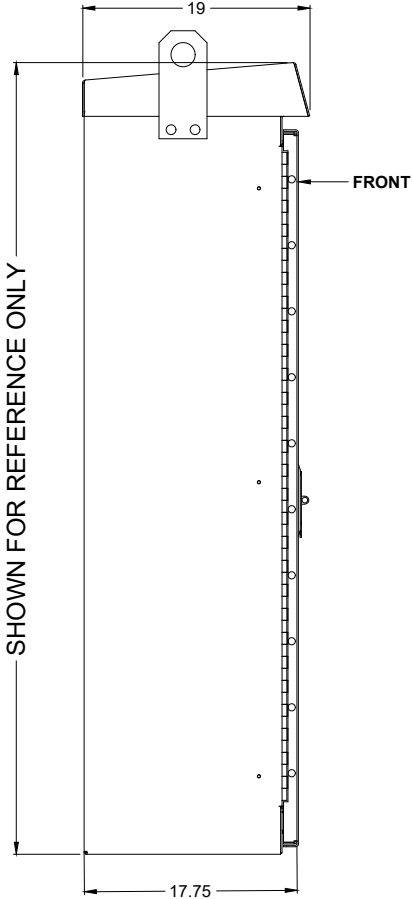
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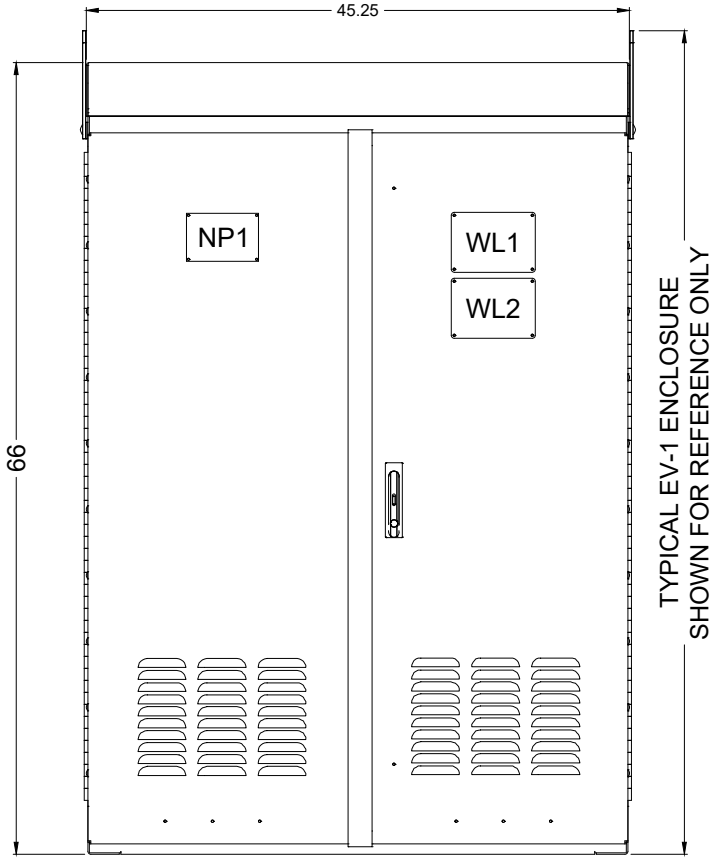
ANCHOR BOLT LOCATIONS
AVAILABLE CONDUIT AREA
SECTION A-A



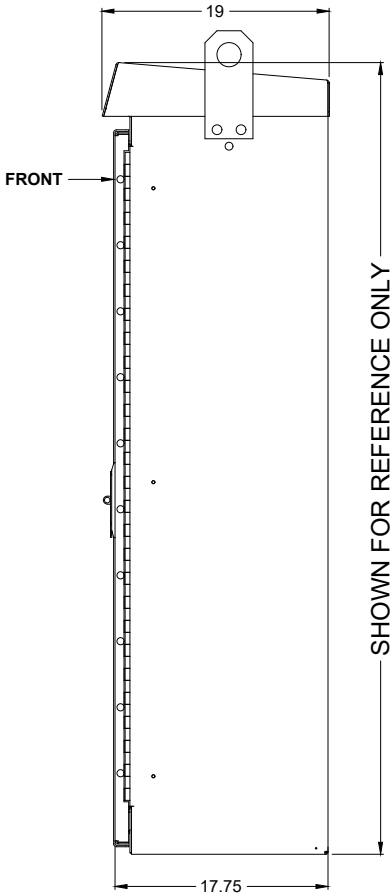
EXAMPLE CONDUIT CONFIGURATION
4" PVC CONDUIT



LEFT VIEW



FRONT VIEW



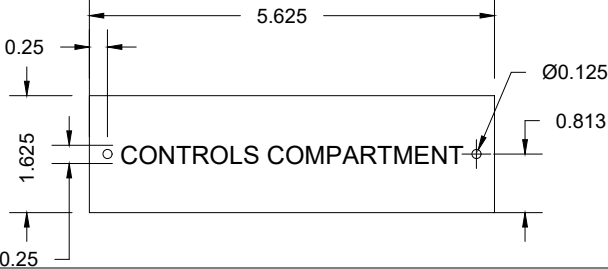
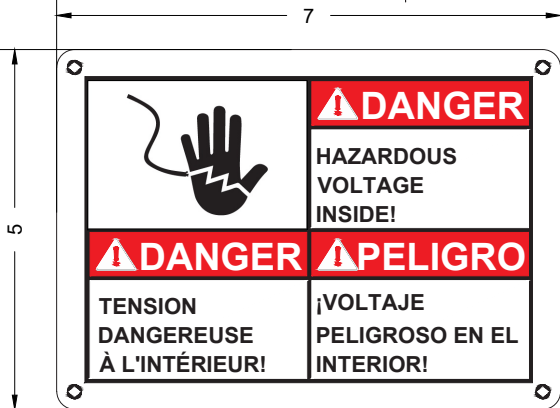
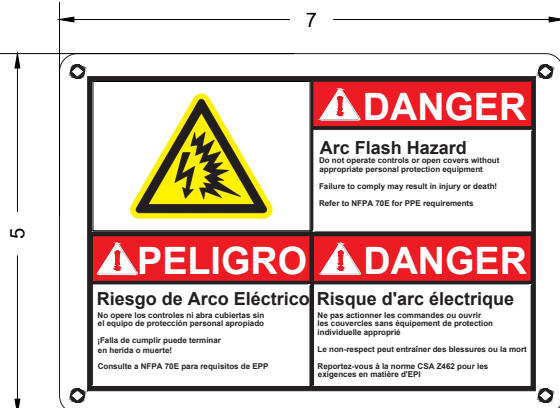
RIGHT VIEW

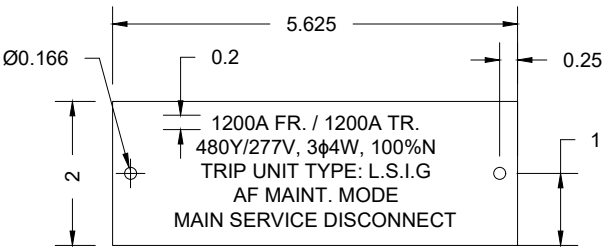
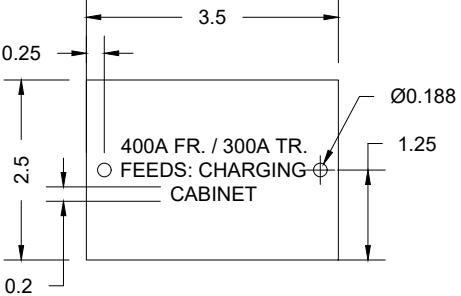
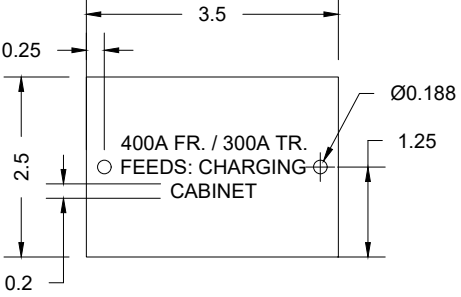
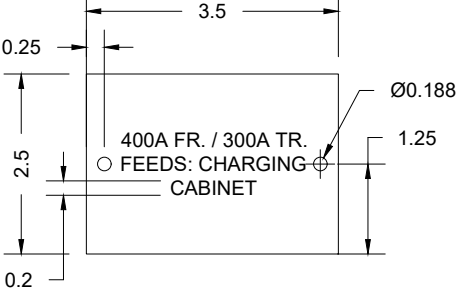
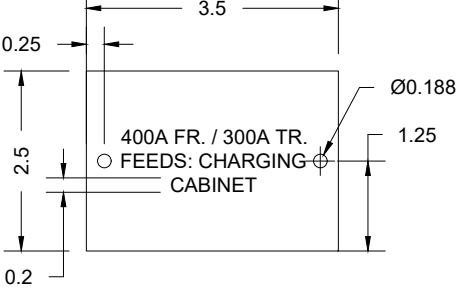


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CUSTOMER	PROJECT CHARGER STATION	DRAWING TITLE		DESIGNATION	CONFIGURATION ID		JOB #	DRAWN BY		DATE		SHEET NUMBER
		PLAN VIEW		EV-1	N/A		30167	SC		09/21/2023		4 OF 6
		SHORT CIRCUIT RATING		VOLTAGE		AMPERAGE	SYSTEM	BUS MATERIAL		ENCLOSURE	REV	DRAWING NUMBER
		65kA. SYM. RMS		480Y/277V AC		1200A	3ϕ, 4W	COPPER		TYPE-3R	4	30167SB01

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LABEL/NAMEPLATE SCHEDULE					
TYPE	ID	DESCRIPTION	PART NUMBER	CORE COLOR	SURFACE COLOR
NP (EV1 NAMEPLATE)	1		N/A	BLACK	WHITE
	2		NP-EV01-CC-01	BLACK	WHITE
WL (WARNING LABEL)	1		LB1009	BLACK	WHITE
	2		LB1008	BLACK	WHITE

LABEL/NAMEPLATE SCHEDULE					
TYPE	ID	DESCRIPTION	PART NUMBER	CORE COLOR	SURFACE COLOR
1 (DEVICE NAMEPLATE)	A		NP-EV01-MB-04	BLACK	WHITE
	B		NP-EV01-BB-01	BLACK	WHITE
	C		NP-EV01-BB-01	BLACK	WHITE
	D		NP-EV01-BB-01	BLACK	WHITE
	E		NP-EV01-BB-01	BLACK	WHITE



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CUSTOMER

PROJECT

CHARGER STATION

DRAWING TITLE

NAMEPLATE SCHEDULE

DESIGNATION

EV-1

CONFIGURATION ID

N/A

JOB #

30167

DRAWN BY

SC

DATE

09/21/2023

SHEET NUMBER

5 OF 6

SHORT CIRCUIT RATING

65kA. SYM. RMS

VOLTAGE

480Y/277V AC

AMPERAGE

1200A

SYSTEM

3Ø, 4W

BUS MATERIAL

COPPER

ENCLOSURE

TYPE-3R

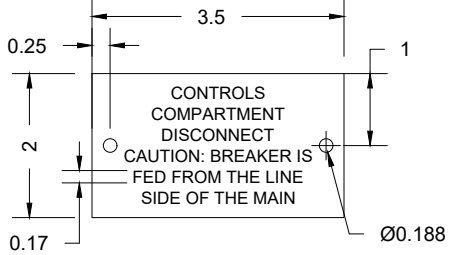
REV

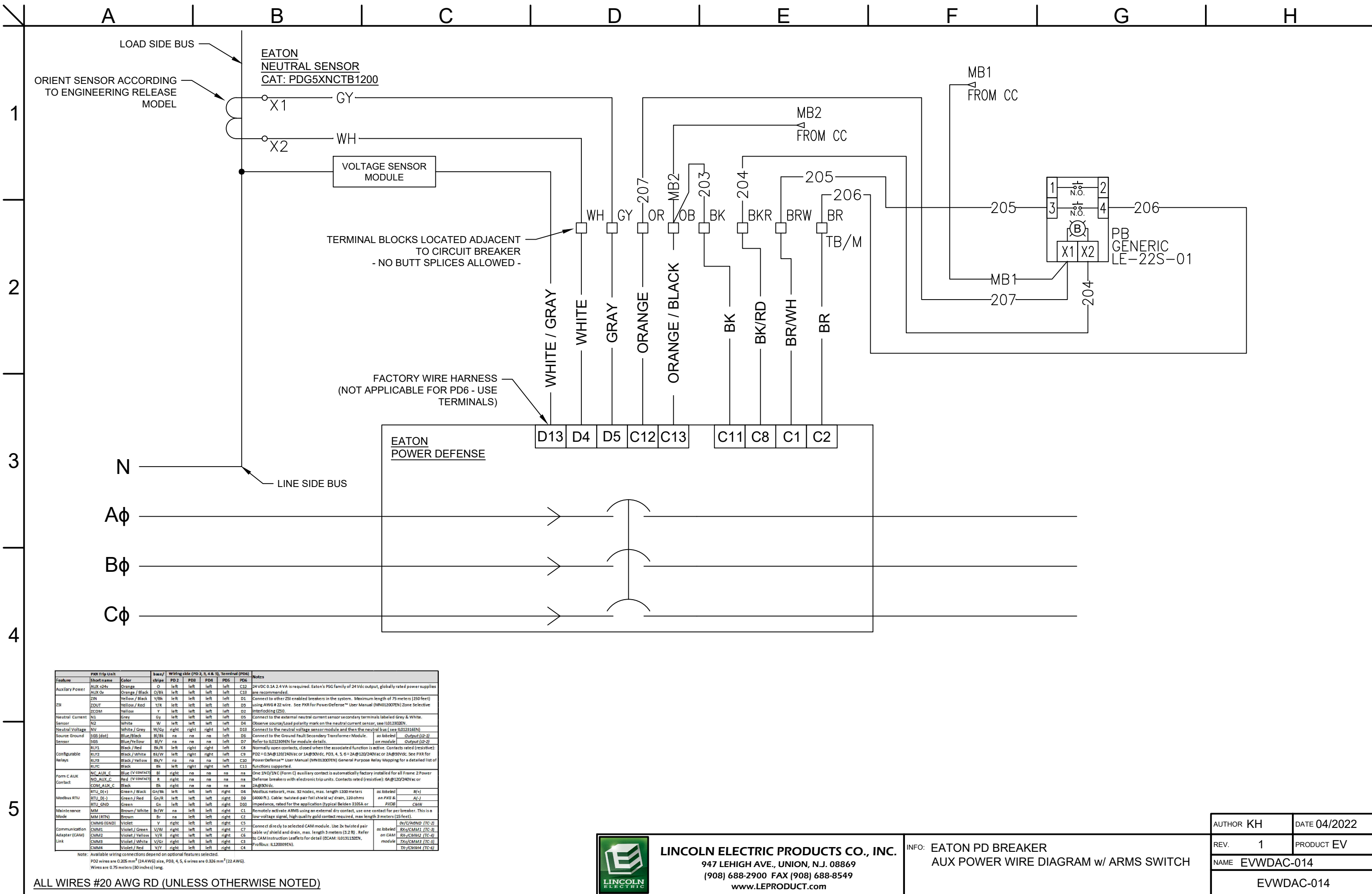
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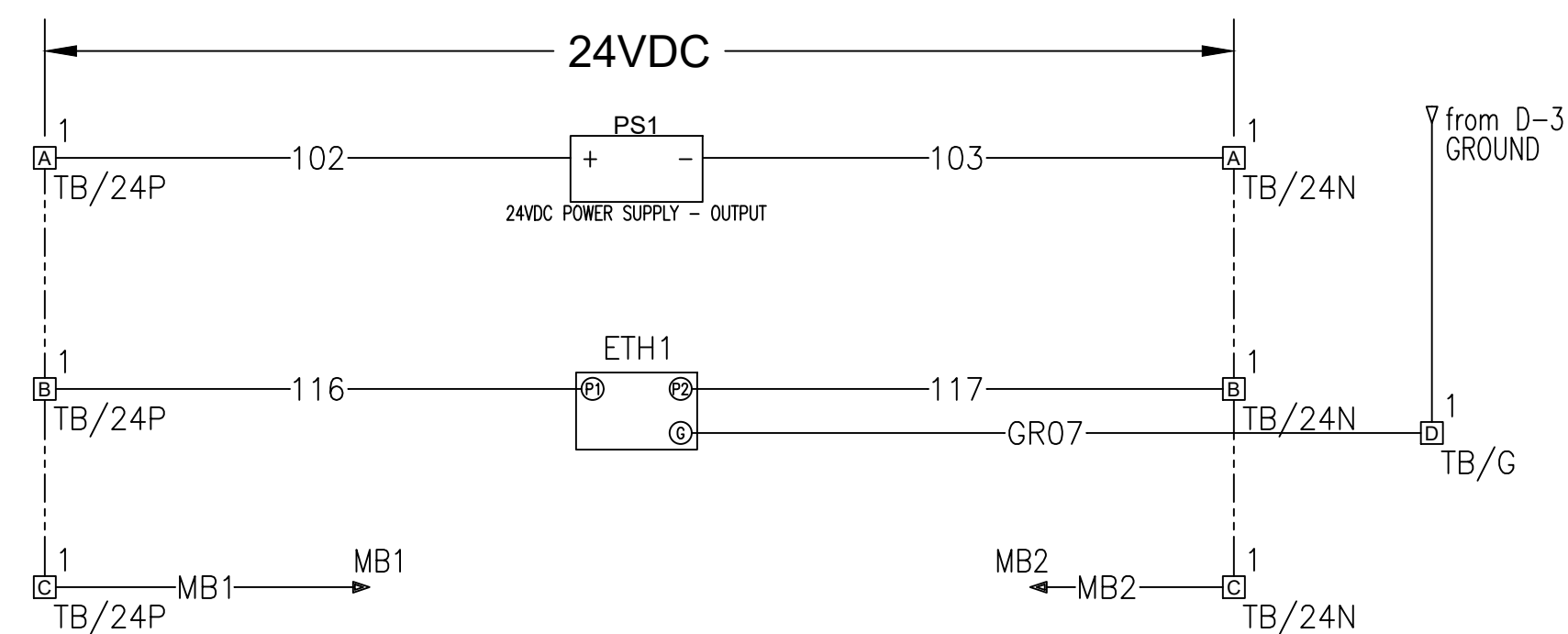
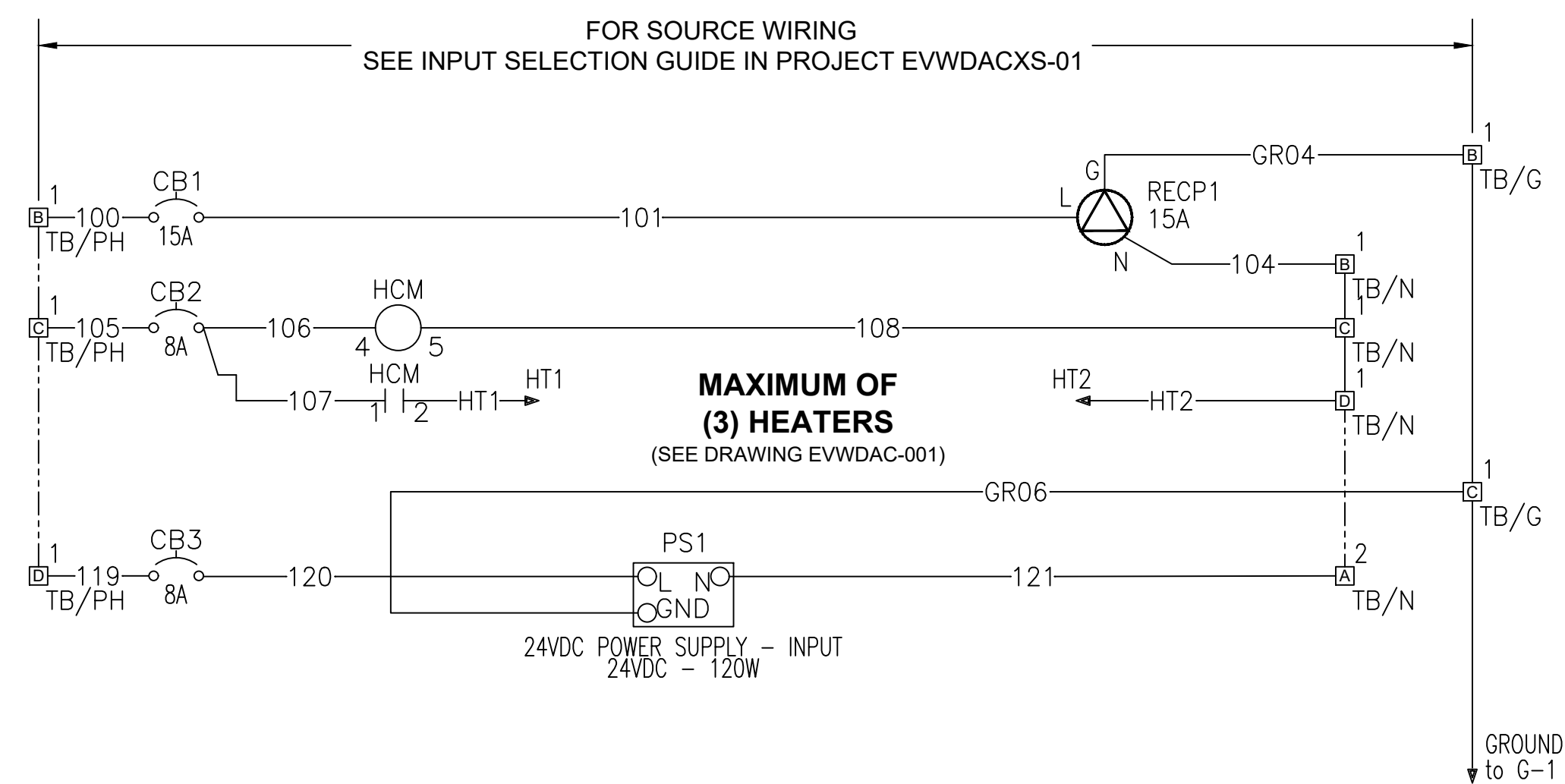
DRAWING NUMBER

30167SB01

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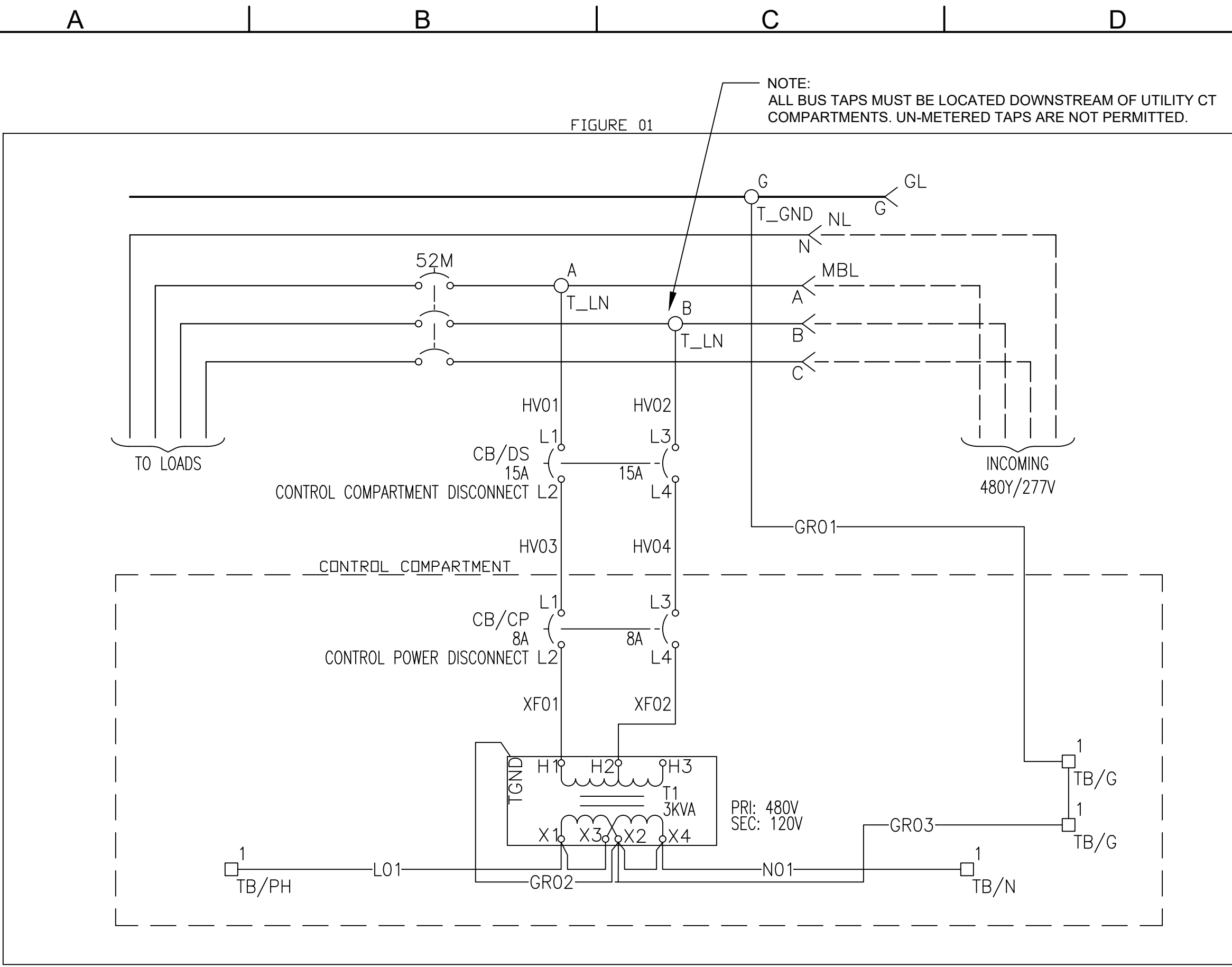
LABEL/NAMEPLATE SCHEDULE					
TYPE	ID	DESCRIPTION	PART NUMBER	CORE COLOR	SURFACE COLOR
	F	 Technical drawing of a nameplate with dimensions and text. The nameplate is rectangular with a width of 3.5 and a height of 2. The text on the nameplate reads: "CONTROLS COMPARTMENT DISCONNECT", "CAUTION: BREAKER IS FED FROM THE LINE SIDE OF THE MAIN", and "Ø0.188". Dimensions are indicated: 0.25 for the top margin, 0.17 for the bottom margin, and 1 for the right margin.	NP-EV01-CC-02	BLACK	WHITE





WIRENO	WIRESIZE1	WIRECOLOR1	LOC1	CMP1	PIN1	LOC2	CMP2	PIN2
100	14AWG	GRAY	SINGLESECTION	TB/PH	1	SINGLESECTION	CB1	
101	14AWG	GRAY	SINGLESECTION	CB1		SINGLESECTION	RECP1	L
102	20AWG	RED	SINGLESECTION	TB/24P	1	SINGLESECTION	PS1	+
103	20AWG	RED	SINGLESECTION	PS1	-	SINGLESECTION	TB/24N	2
104	14AWG	GRAY	SINGLESECTION	RECP1	N	SINGLESECTION	TB/N	1
105	14AWG	GRAY	SINGLESECTION	TB/PH	1	SINGLESECTION	CB2	
106	14AWG	GRAY	SINGLESECTION	CB2		SINGLESECTION	HCM	4
107	14AWG	GRAY	SINGLESECTION	CB2	1	SINGLESECTION	HCM	2
108	14AWG	GRAY	SINGLESECTION	HCM	5	SINGLESECTION	TB/N	1
116	20AWG	RED	SINGLESECTION	TB/24P	1	SINGLESECTION	ETH1	P1
117	20AWG	RED	SINGLESECTION	ETH1	P2	SINGLESECTION	TB/24N	1
119	14AWG	GRAY	SINGLESECTION	TB/PH	2	SINGLESECTION	CB3	
120	14AWG	GRAY	SINGLESECTION	CB3		SINGLESECTION	PS1	L
121	14AWG	GRAY	SINGLESECTION	PS1	N	SINGLESECTION	TB/N	2
GR04	10AWG	GREEN	SINGLESECTION	TB/G	1	SINGLESECTION	RECP1	G
GR06	10AWG	GREEN	SINGLESECTION	TB/G	1	SINGLESECTION	PS1	GND
GR07	10AWG	GREEN	SINGLESECTION	ETH1	G	SINGLESECTION	TB/G	1
HT1	14AWG	GRAY	SINGLESECTION	HCM	2	SINGLESECTION		
HT2	14AWG	GRAY	SINGLESECTION	TB/N	1	SINGLESECTION		
MB1	20AWG	RED	SINGLESECTION	TB/24P	2	SINGLESECTION		
MB2	20AWG	RED	SINGLESECTION	TB/24N	2	SINGLESECTION		

BILL OF MATERIALS FOR EVWDCK-001				
TAGS	QTY	CATALOG	MFG	DESC1
CB2 CB3	2	M9F42108	SCHNEIDER ELECTRIC	HUMIDISTAT BREAKER 24VDC POWER SUPPLY BREAKER
CB1	1	M9F42115	SCHNEIDER ELECTRIC	GFCI BREAKER
HCM	1	EFR-012	STEGO	HUMIDISTAT
RECP1	1	1597TRUSBACW	LEGRAND	PANEL MOUNT GFCI
ETH1	1	1085256	PHOENIX CONTACT	8-PORT ETHERNET SWITCH
PS1	1	SDR-120-24	MEANWELL	24VDC POWER SUPPLY - INPUT
TB/24N TB/24P TB/G TB/N TB/PH	6	2004-1401	WAGO	SERIES 2004 - 4-CONDUCTOR THROUGH TERMINAL BLOCK SERIES 2004 - 4-CONDUCTOR THROUGH TERMINAL BLOCK SERIES 2004 - 4-CONDUCTOR THROUGH TERMINAL BLOCK SERIES 2004 - 4-CONDUCTOR THROUGH TERMINAL BLOCK SERIES 2004 - 4-CONDUCTOR THROUGH TERMINAL BLOCK
WDT	2	NAB-1015W	IBOCO	WIRE DUCT, 1.0" WIDE, 1.5" TALL, WHITE



SPECIAL NOTE FOR EV-1
THE MANUFACTURER OF THE CONTROL COMPARTMENT DISCONNECT CIRCUIT BREAKER (CB/DS) WILL VARY BASED ON THE MANUFACTURER OF THE BRANCH BREAKERS. USE TABLE 1 BELOW TO SELECT THE CORRECT DEVICE:

TABLE 1		
CONTROL COMPARTMENT CIRCUIT BREAKER (CB/DS)		
EQUIPMENT TYPE	MANUFACTURER	CATALOG NUMBER
EV-1	EATON	PDG22G0015TFFL
EV-1	ABB	FBN26TE015R2
EV-1/EV-2	SCHNEIDER ELECTRIC	BJL26015

BILL OF MATERIALS FOR EVWDACXS-01-01.dwg				
TAGS	QTY	CATALOG	MFG	DESC1
CB/DS	1	BKL26015	SCHNEIDER ELECTRIC	CONTROL COMPARTMENT DISCONNECT
CB/CP	1	M9F42208	SCHNEIDER ELECTRIC	CONTROL POWER DISCONNECT
T1	1	SP3000ACP	HPS	3KVA CONTROL POWER TRANSFORMER
T_GND	3	RB714	STA-KON	RING TERMINAL
T_LN	3	RB714	STA-KON	RING TERMINAL
TB/G	4	2004-1401	WAGO	GROUND TERMINAL BLOCK
TB/N	4	2004-1401	WAGO	120VAC NEUTRAL TERMINAL BLOCK
TB/PH	4	2004-1401	WAGO	120VAC LINE TERMINAL BLOCK

TO/FROM REPORT FOR EVWDACXS-0101.dwg										
WIRENO	WIRESIZE1	WIRECOLOR1	INST1	LOC1	CMP1	PIN1	INST2	LOC2	CMP2	PIN2
GR01	10AWG	GREEN	MAINBUS	SINGLESECTION	T_GND	G	CTRLCOMPT	MULTI-SECTION	TB/G	1
GR02	10AWG	GREEN	CTRLCOMPT	MULTI-SECTION	T1	TGND	CTRLCOMPT	MULTI-SECTION	T1	X2
GR03	10AWG	GREEN	CTRLCOMPT	MULTI-SECTION	TB/G	1	CTRLCOMPT	MULTI-SECTION	T1	X2
HV01	14AWG	GRAY	MAINBUS	SINGLESECTION	T_LN	A	PANEL	SINGLESECTION	CB/DS	L1
HV02	14AWG	GRAY	MAINBUS	SINGLESECTION	T_LN	B	PANEL	SINGLESECTION	CB/DS	L3
HV03	14AWG	GRAY	PANEL	SINGLESECTION	CB/DS	L2	CTRLCOMPT	MULTI-SECTION	CB/CP	L1
HV04	14AWG	GRAY	PANEL	SINGLESECTION	CB/DS	L4	CONTROLCOMPARTMENT	MULTI-SECTION	CB/CP	L3
L01	10AWG	BLACK	CTRLCOMPT	MULTI-SECTION	T1	X1	CTRLCOMPT	MULTI-SECTION	TB/PH	1
N01	10AWG	BLACK	CTRLCOMPT	MULTI-SECTION	T1	X4	CTRLCOMPT	MULTI-SECTION	TB/N	1
XF01	14AWG	GRAY	CTRLCOMPT	MULTI-SECTION	CB/CP	L2	CTRLCOMPT	MULTI-SECTION	T1	H1
XF02	14AWG	GRAY	CONTROLCOMPARTMENT	MULTI-SECTION	CB/CP	L4	CTRLCOMPT	MULTI-SECTION	T1	H2

REVISION HISTORY				
ZONE	REV	DESCRIPTION	APPROVED	DATE
	0	Released to customer	Keith Haxton	1/19/2024
	1	Check/Remove extra B-Frame Breaker	Francis Escano	3/20/2024
	2	Released to customer	Keith Haxton	7/15/2024

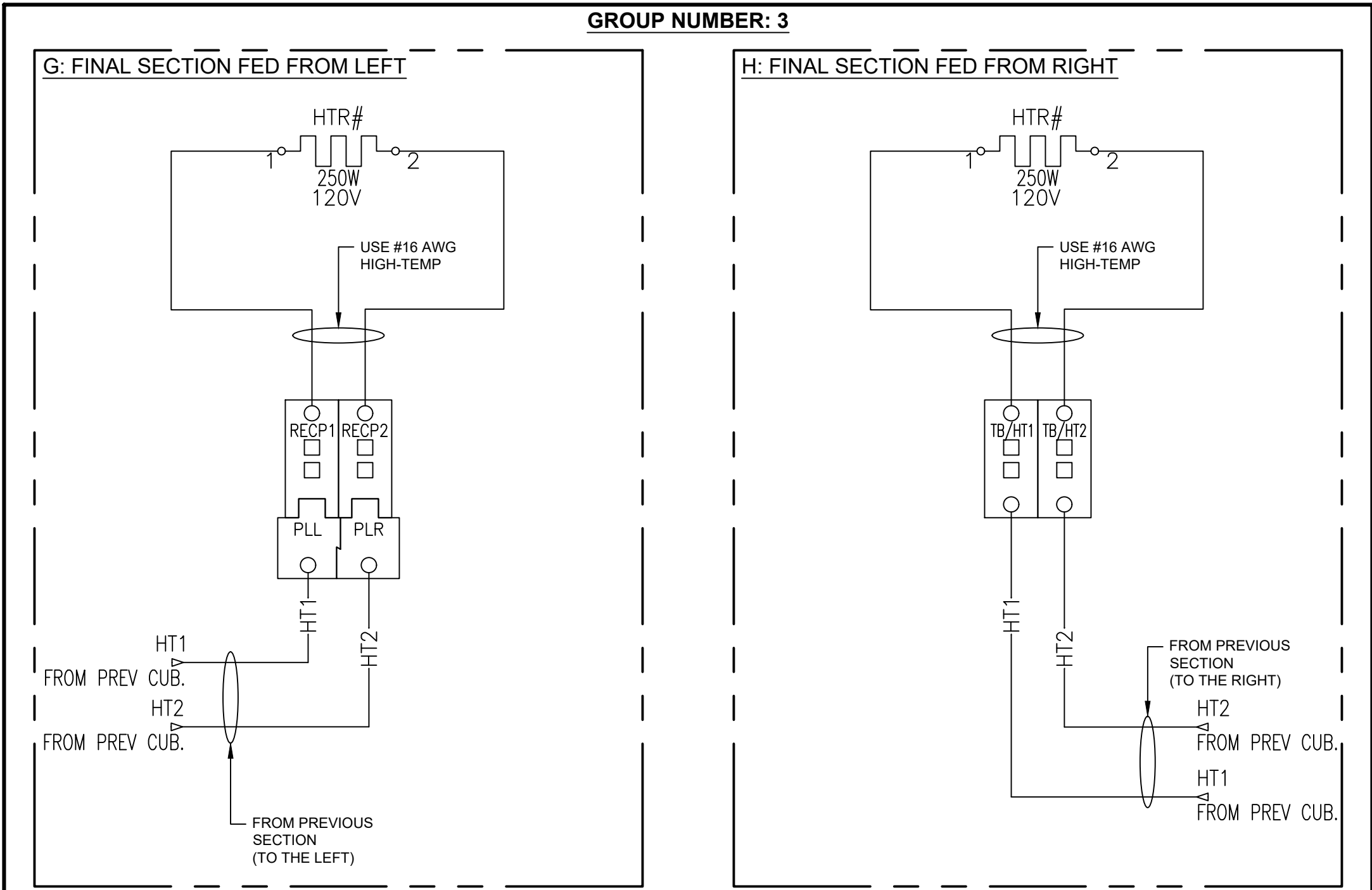
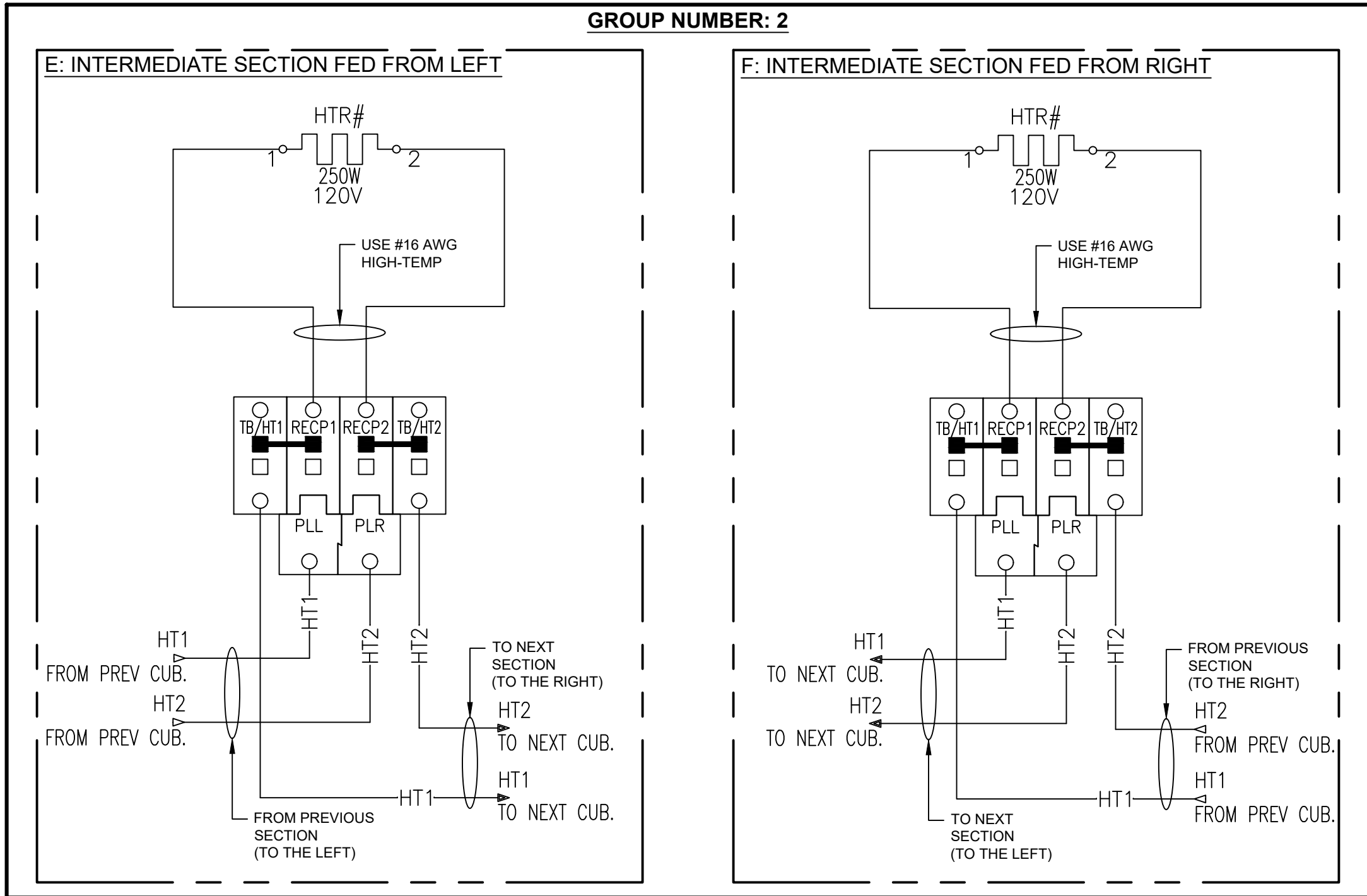
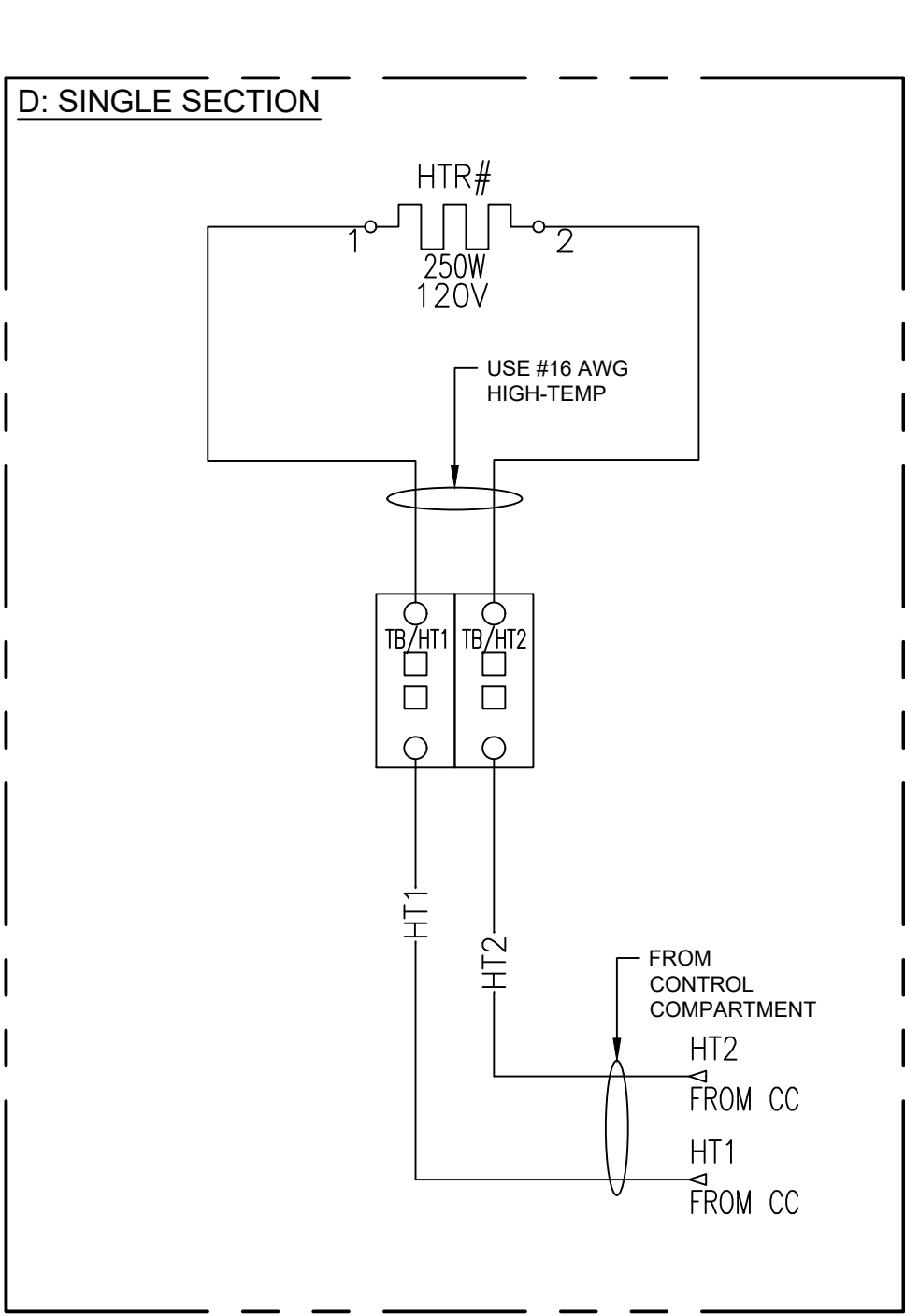
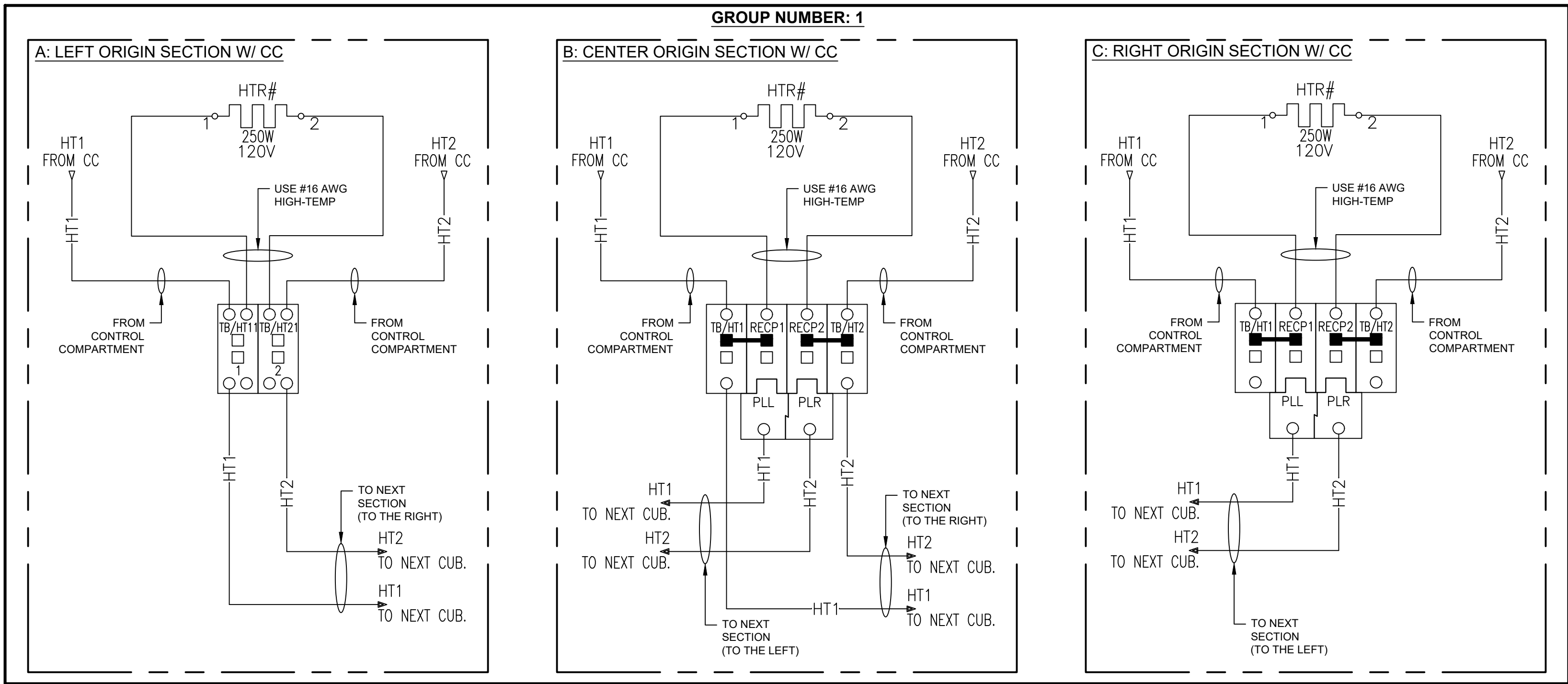
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CUST:			
PRD:			
INFO: CONTROL COMPARTMENT WIRING		AUTHOR: KH	DATE: 12/7/2023
FIGURE #01		PLT:	S.O.
		SECT:	SUBSECT:
		DWG:	
		NAME:	EVWDACXS-01-01
		PROJECT:	EVWDACXS-01
		SHEET NUMBER:	1 OF 26



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- NOTES:
- ALL WIRES SHALL BE TYPE S/S WITH WIRE MARKER LABELS AT EACH TERMINATION.
 - WIRES SHOWN WITH DASHED LINES ARE TO BE INSTALLED 'BY OTHERS'.
 - ALL BUS TAPS MUST BE LOCATED DOWNSTREAM OF UTILITY CT COMPARTMENTS. UN-METERED TAPS ARE NOT PERMITTED.



TAGS	MFG	CATALOG
HTR#	VULCAN	OSF1310-250A
TB/HT2 TB/HT1	WAGO	2004-1401
TB/HT21 TB/HT11	WAGO	2004-1201
RECP1 RECP2	WAGO	2022-1201
PLL	WAGO	2022-181
PLR	WAGO	2022-161

NOTES:

*****ALL DIAGRAMS SHOW "HTR#" WHERE "#" SHOULD BE REPLACED WITH THE CUBICLE NUMBER*****

- 1) **FOR A SINGLE HEATER**, SELECT DIAGRAM "D"
- 2) **FOR TWO HEATERS**, SELECT ONE DIAGRAM FROM GROUP 1 AND SELECT ONE DIAGRAM FROM GROUP 3. (SEE NOTE 7)
- 3) **FOR 3 HEATER CONFIGURATIONS**, SELECT ONE DIAGRAM FROM EACH GROUP 1, 2, & 3.
- 4) IF THERE ARE **FOUR OR MORE HEATERS** IN THE CONFIGURATION, THE REQUIRED WIRING IS LOCATED ON THE SECOND SHEET (EVWDAC-001-02)
- 5) ALL DIAGRAMS IN GROUP 1 LABELED "ORIGIN " REPRESENT THE CUBICLE WITH THE CONTROL COMPARTMENT INSTALLED.
- 6) ALL DIAGRAMS IN GROUP 2 LABELED "INTERMEDIATE" REPRESENT A CUBICLE BETWEEN THE START AND END OF THE HEATER CIRCUIT. (EX: CUB# 2 OF A LEFT ORIGIN THREE SECTION SWBD.)
- 7) ALL DIAGRAMS IN GROUP 3 LABELED "FINAL" REPRESENT THE LAST CUBICLE IN THE STRING. (EX: IF THE ORIGIN IS IN CUB# 3 OF A SWBD, SELECT DIAGRAM "H" TO INSTALL IN CUB# 1)



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INFO: LINCOLN STANDARD HEATER WIRING
CONFIGURATIONS FOR EV PRODUCTS

AUTHOR NES	DATE 09/2022
REV. 0	PRODUCT EV
NAME EVWDAC-001-01	
EVWDAC-001	