



EV-2U 2000A

Inventory serials: 26701, 5818, 5491, 5834, 5500

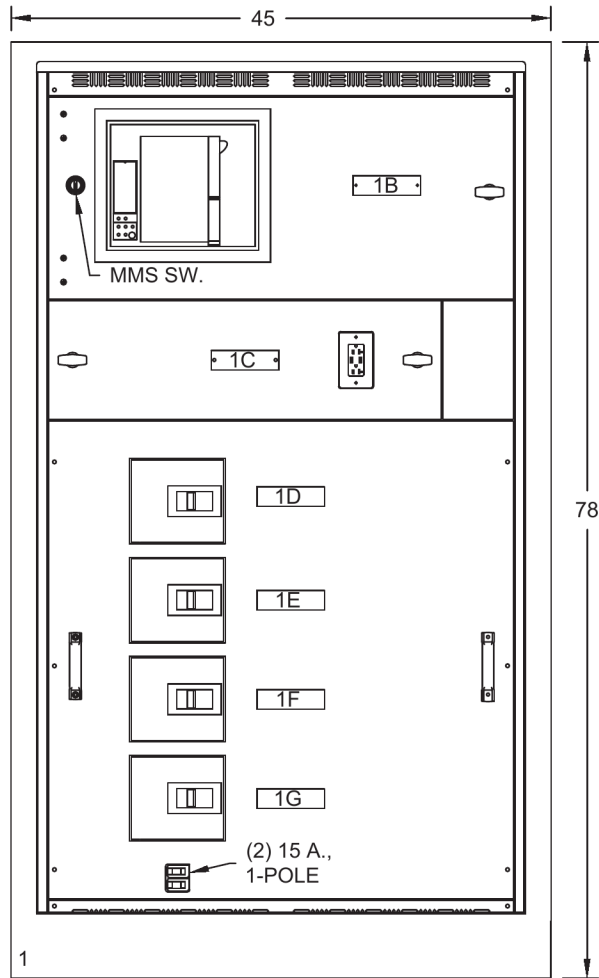
Shared configuration drawing; serial mapping from inventory workbook.

Two additional inventory rows have no serial number recorded.

Drawing/Part:			Spec section: 262413 - Switchboards
Number	Rev.	Part Qty.	Description of material being submitted:
	0		Universal EV Charging Station Drawings
	0	-	Heater Wiring Diagram
	0	-	Main Breaker Aux Power and ERMS Wiring Diagram
	1	-	Controls Compartment Wiring Diagram

NOTES:

1. This submittal represents Lincoln Electric's interpretation of the contract drawings provided. It is the responsibility of the electrical contractor and consulting engineer to verify this submittal for accuracy. Any deviation not indicated on the contract drawings will incur additional charges.
2. The customer must return the approved submittal accompanied by a written release to proceed with manufacturing and delivery of the included equipment.



FRONT VIEW
(SHOWN WITHOUT DOORS)

PRODUCT DESCRIPTION & RATINGS

PRODUCT TYPE [EV-2]

- LEVEL-3 SERVICE SWITCHBOARD WITH INTEGRAL SITE MASTER CONTROLLER.

UTILITY INFORMATION [N/A]

- METER AFTER DISCONNECT (HOT SEQUENCE)

POWER SYSTEM DATA [INCOMING SERVICE]

- SECTION 1 (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

- CODE GAUGE, FORMED COVERS & DOORS

- ENCLOSURE SHALL CONFORM TO INGRESS PROTECTION IN ACCORDANCE WITH A TYPE-3R RATING.

- EXTERIOR HARDWARE TO BE TAMPER-RESISTANT S.S. SCREWS.

- DOOR HANDLES ARE EQUIPPED WITH PADLOCK HASP.

- FINISH SHALL BE: ☒ WHITE (STANDARD) ☐ GRAY ☐ GREEN

- FRONT & BOTH SIDES OR FRONT & REAR ACCESS REQUIRED TO TERMINATE INCOMING CABLES.

CODE STANDARDS

- UL891

NAMEPLATES

- LAMICOID TYPE, WHITE w/BLACK LETTERS.

ACCESSORIES

- ENCLOSURE HEATERS W/ HYGROSTAT CONTROL

- SERVICE DISCONNECT GROUND FAULT PROTECTION PER N.E.C. 230.95.

REFERENCES:

- SECTION VIEWS SEE SHT-04

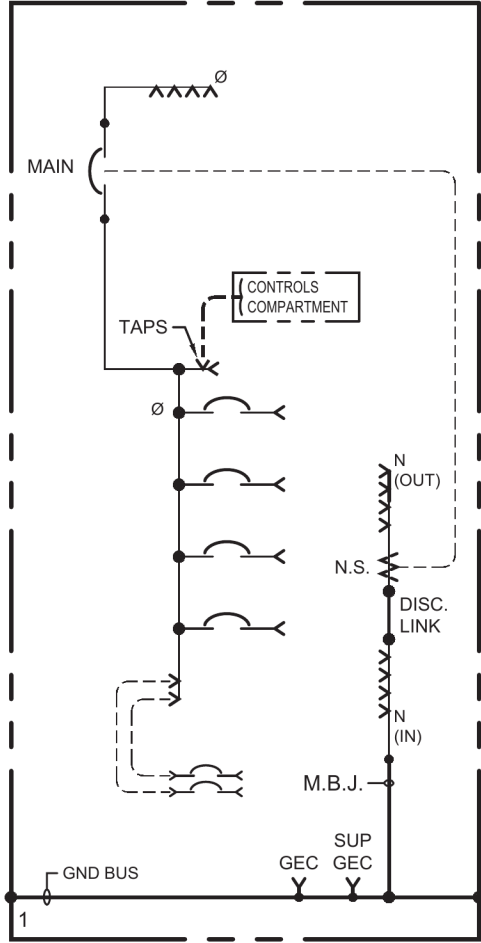
- FOR NAMEPLATE DESIGNATIONS SEE 'SWITCHBOARD SCHEDULE' SHT-03



LINCOLN ELECTRIC
PRODUCTS CO., INC.

DRAWING TITLE		EQUIPMENT DESIGNATION				
FRONT VIEW		EV-2				
SHORT CIRCUIT RATING	VOLTAGE	AMPERAGE	SYSTEM	BUS MATERIAL	ENCLOSURE	REV
65kA. SYM. RMS	480Y/277V AC	2000A	3 ϕ , 4W	COPPER	TYPE-3R	0

SHEET NUMBER
1 OF 6



----- FACTORY WIRED

REFERENCES:
- FOR CONTROLS COMPARTMENT & SUB-PANEL DETAILS SEE SHT-06



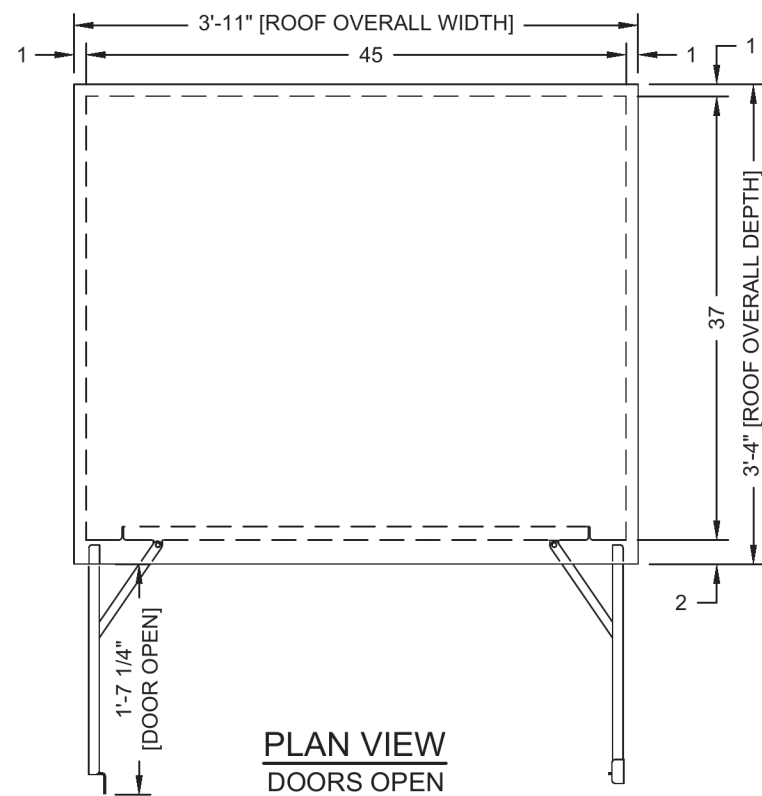
LINCOLN ELECTRIC
PRODUCTS CO., INC.

DRAWING TITLE		EQUIPMENT DESIGNATION				
ONE-LINE DIAGRAM		EV-2				
SHORT CIRCUIT RATING	VOLTAGE	AMPERAGE	SYSTEM	BUS MATERIAL	ENCLOSURE	REV
65kA. SYM. RMS	480Y/277V AC	2000A	3 ϕ , 4W	COPPER	TYPE-3R	0

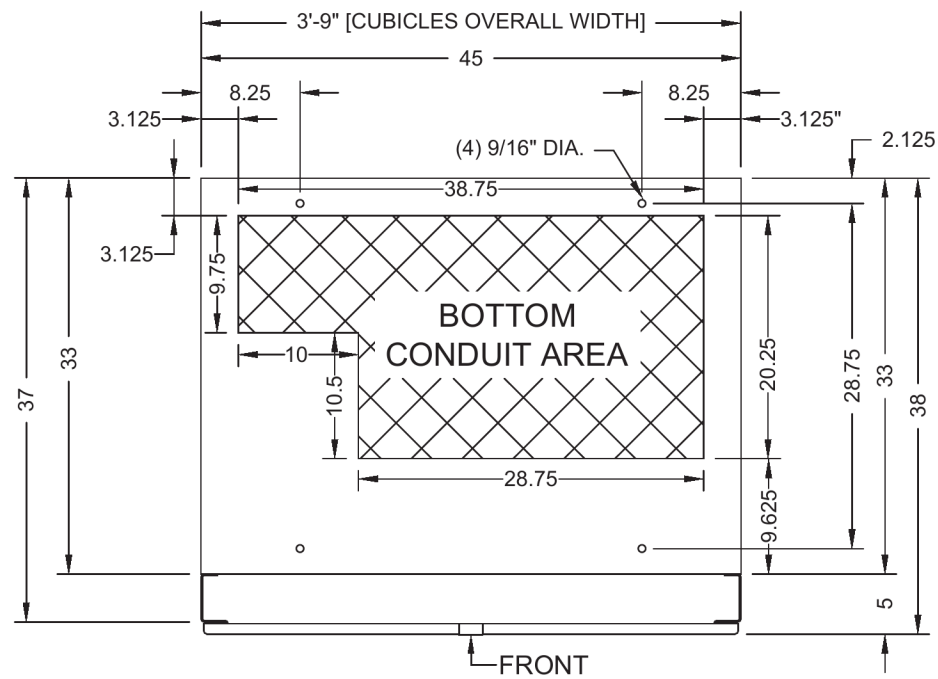
SHEET NUMBER
2 OF 6

SWITCHBOARD SCHEDULE																	
CUB. LOCN.	DESIGNATION	DEVICE MANUFACTURER	FRAME RATING	TRIP RATING/ TYPE	# OF POLES	DEVICE CAT. NO.	LUG INFORMATION						CABLE CONDUCTOR MATERIAL	CABLE ENTRY	NOTES		
							QTY.	PHASES	QTY.	NEUTRAL	QTY.	GROUND	TYPE				
1	G.E.C.	-	-	-	-	-	-	-	-	-	2	(1) #6-350 KCMIL	COPPER	BOTTOM			
1	INCOMING	-	-	-	-	-	6	(1) #2-600 KCMIL	6	(1) #2-600 KCMIL	-	-	COPPER	BOTTOM			
1A	SERVICE SWITCHBOARD 2000A., 3Ø, 4W., 480Y/277V																
1B	MAIN SERVICE DISCONNECT	SCHNEIDER	2000/3 'MTZ'	1200A* LSIG	3	EBGKGABABNNNNNNNNNN NNNNWNNNENNNNCNNNNNN	-	-	-	-	-	-	BUS CONNECTED	-	- 100% RATED - INTEGRAL GROUND FAULT PROTECTION - MMS (MAINTENANCE MODE SWITCH) - PADLOCK HASP - DOOR ESCUTCHEON (CAT. #: S33929) - NEUTRAL SENSOR (CAT. #: LV834035SP)		
1C	CONTROLS COMPARTMENT	FACTORY WIRED															
1D	CHARGING CABINET	SCHNEIDER	600/3	300A** THERMAL-MAG	3	LJP36400U31XYP	1	(2) #2/0-500 KCMIL	2	(1) #2-600 KCMIL	2	(1) #6-350 KCMIL	COPPER [CU GND]	BOTTOM	- PADLOCK HASP - MECHANICAL LUGS		
1E	CHARGING CABINET	SCHNEIDER	600/3	300A** THERMAL-MAG	3	LJP36400U31XYP	1	(2) #2/0-500 KCMIL	2	(1) #2-600 KCMIL	2	(1) #6-350 KCMIL	COPPER [CU GND]	BOTTOM			
1F	CHARGING CABINET	SCHNEIDER	600/3	300A** THERMAL-MAG	3	LJP36400U31XYP	1	(2) #2/0-500 KCMIL	2	(1) #2-600 KCMIL	2	(1) #6-350 KCMIL	COPPER [CU GND]	BOTTOM			
1G	CHARGING CABINET	SCHNEIDER	600/3	300A** THERMAL-MAG	3	LJP36400U31XYP	1	(2) #2/0-500 KCMIL	2	(1) #2-600 KCMIL	2	(1) #6-350 KCMIL	COPPER [CU GND]	BOTTOM			
1	SPARE	SCHNEIDER	15/1	15A THERMAL-MAG	1	BJL16015	1	#14-3/0 AWG	1	#14 - 1/0 AWG	1	#14 - 1/0 AWG	COPPER	BOTTOM			
1	SPARE	SCHNEIDER	15/1	15A THERMAL-MAG	1	BJL16015	1	#14-3/0 AWG	1	#14 - 1/0 AWG	1	#14 - 1/0 AWG	COPPER	BOTTOM			

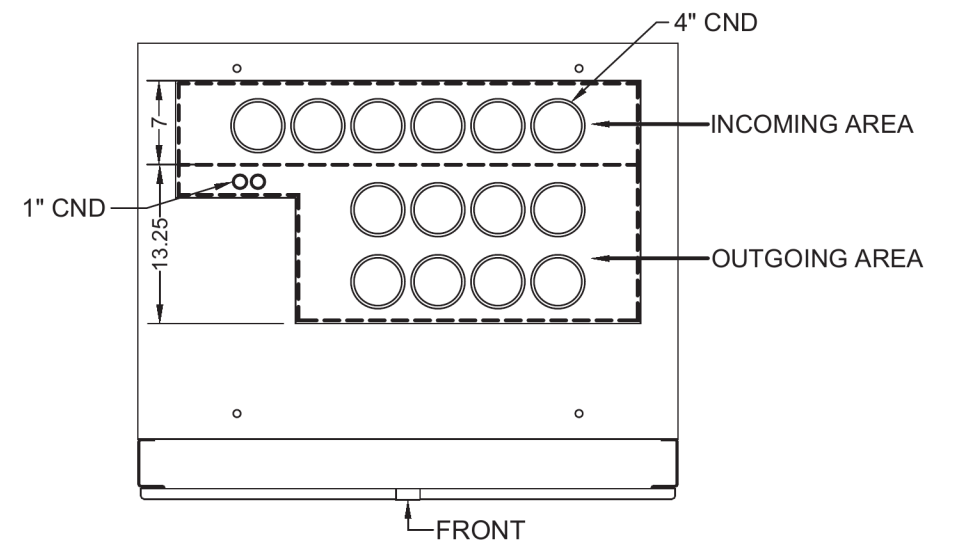
* NOTE: TRIP UNIT CAN BE ADJUSTED UP TO 2000A.
** NOTE: TRIP UNIT CAN BE ADJUSTED UP TO 600A.



PLAN VIEW
DOORS OPEN



SECTION X-X
ANCHOR BOLT LOCATIONS &
BOTTOM CONDUIT AREAS



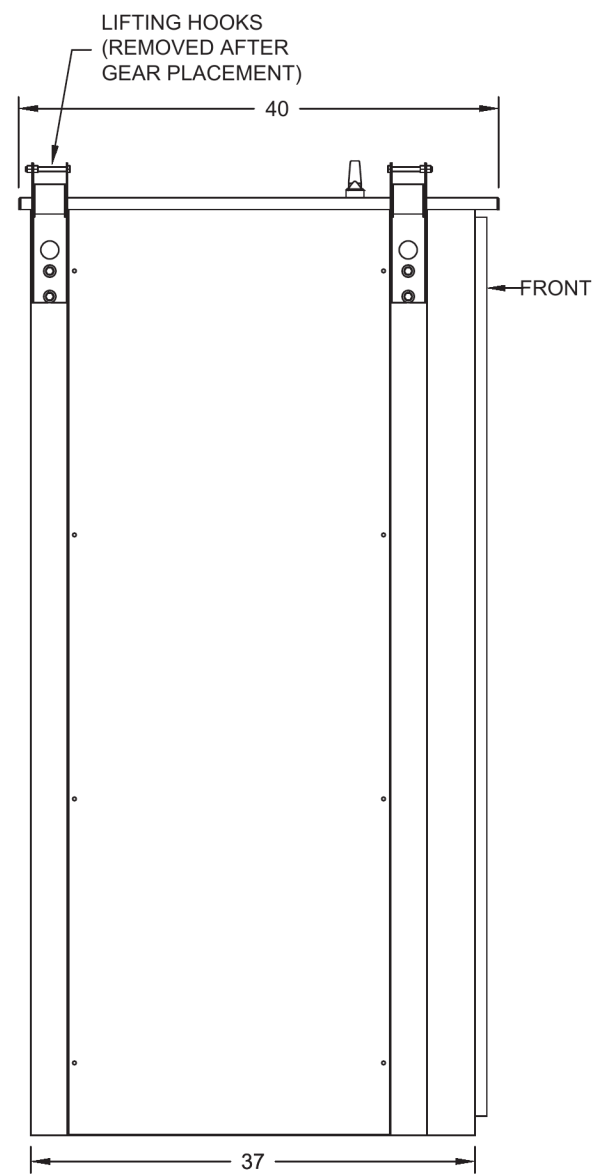
EXAMPLE CONDUIT CONFIGURATION
BOTTOM CONDUIT AREA



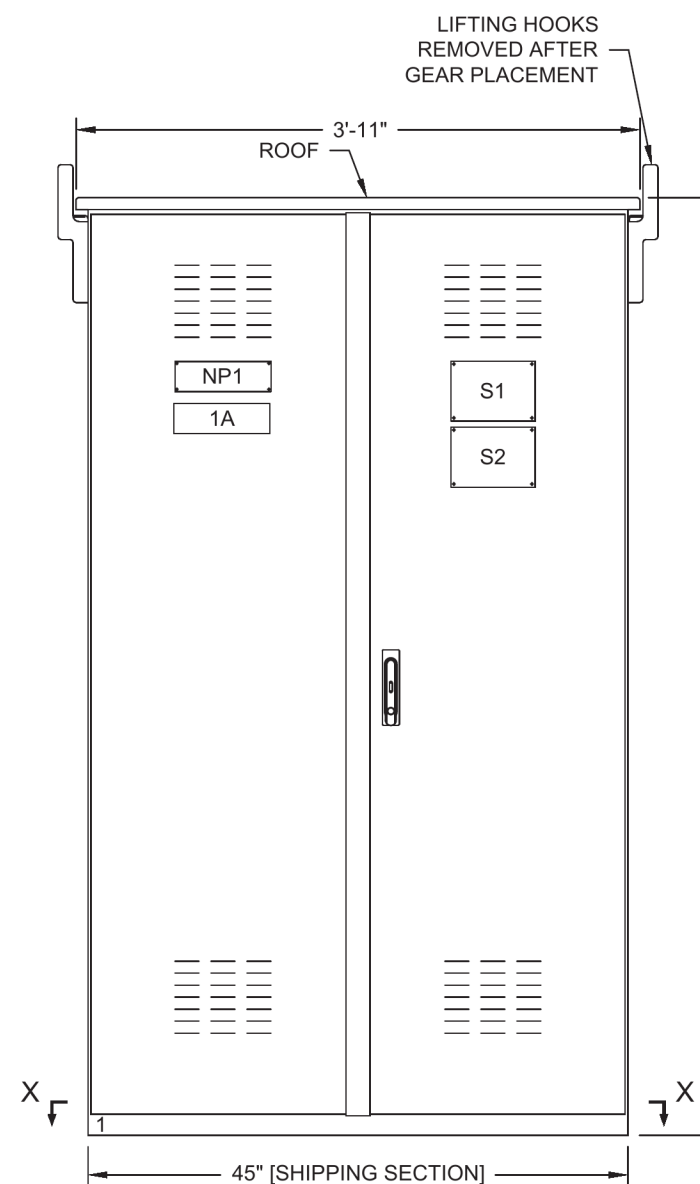
LINCOLN ELECTRIC
PRODUCTS CO., INC.

DRAWING TITLE		EQUIPMENT DESIGNATION				
PLAN VIEW		EV-2				
SHORT CIRCUIT RATING	VOLTAGE	AMPERAGE	SYSTEM	BUS MATERIAL	ENCLOSURE	REV
65kA. SYM. RMS	480Y/277V AC	2000A	3 ϕ , 4W	COPPER	TYPE-3R	0

SHEET NUMBER
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LEFT-SIDE VIEW
(END SECTION)



FRONT VIEW
(EXTERIOR DOORS SHOWN)

SIGNAGE:

NP1 -LINCOLN NAMEPLATE (2.5" x 8" ALUMINUM)
S1 -DANGER 480 VOLTS (BI-LINGUAL)
S2 -DANGER ARC FLASH (BI-LINGUAL)

REFERENCES:

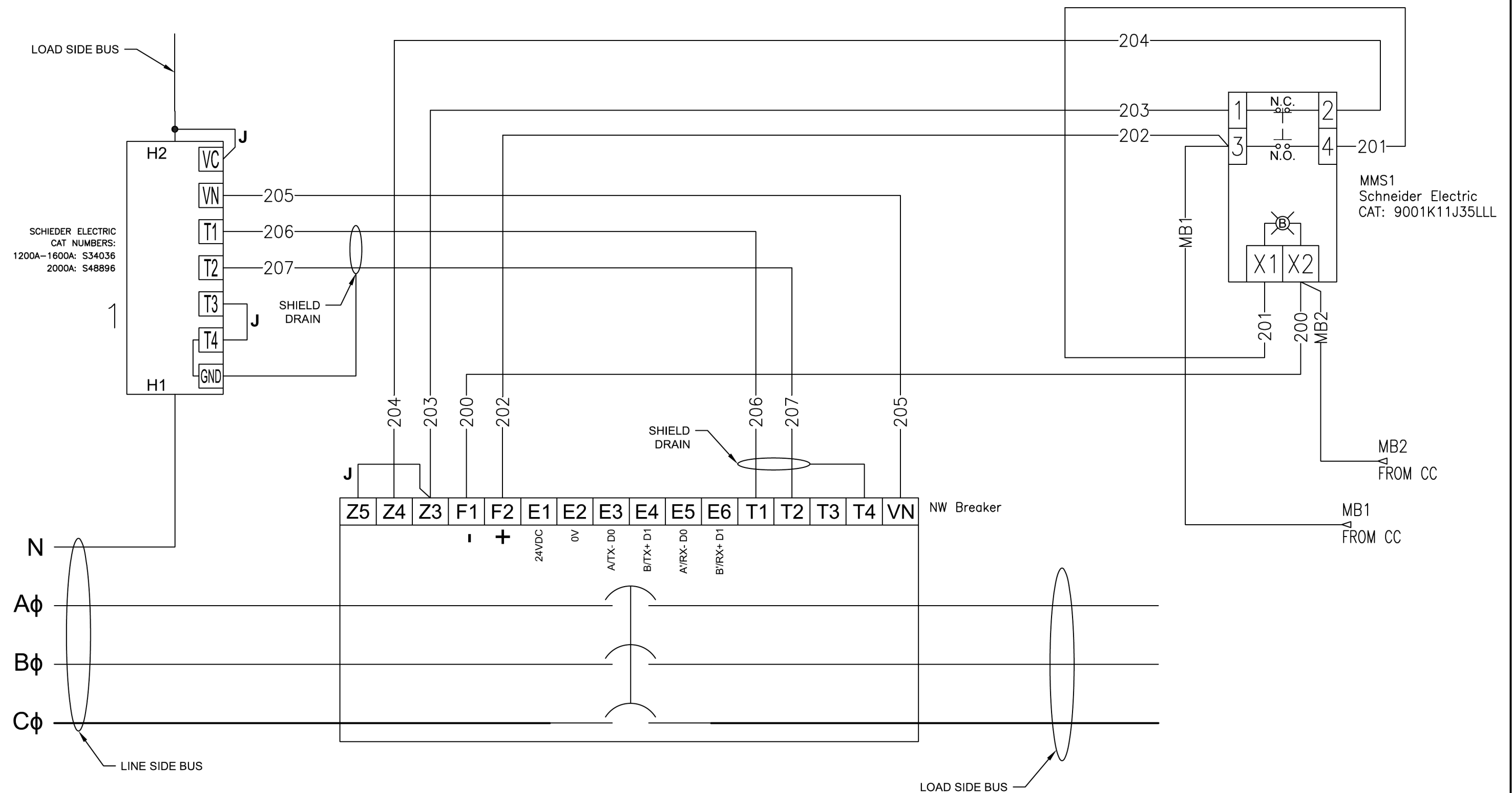
- FOR NAMEPLATE DESIGNATIONS SEE 'SWITCHBOARD SCHEDULE' SHT-03
- FOR SECTION VIEW 'X-X' SEE SHT-04



LINCOLN ELECTRIC
PRODUCTS CO., INC.

DRAWING TITLE		EQUIPMENT DESIGNATION				
EXTERIOR VIEWS		EV-2				
SHORT CIRCUIT RATING	VOLTAGE	AMPERAGE	SYSTEM	BUS MATERIAL	ENCLOSURE	REV
65kA. SYM. RMS	480Y/277V AC	2000A	3 ϕ , 4W	COPPER	TYPE-3R	0

SHEET NUMBER
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INFO: SCHNEIDER ELECTRIC NW BREAKER
AUX POWER & MMS WIRE DIAGRAM

