

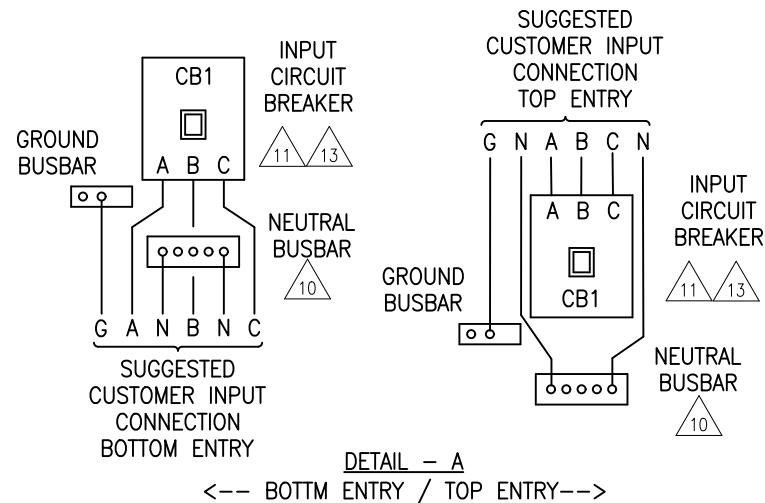
TABLE 1.  
INPUT POWER CONNECTIONS/WEIGHT/HEAT REJECTION

△ <sub>12</sub> STS RATED	SYSTEM KVA	INPUT VOLTS	INPUT CIRCUIT BREAKER △ <sub>8</sub> △ <sub>12</sub>				WT. (LBS.) PER MODULE		BTU/HR △ <sub>4</sub>	
			TRIP AMPS	CONNECTOR LUG WIRE RANGE		CONDUIT SIZE	PMM (2)	STS	PMM (2)	STS
				STANDARD CB	HI-INTERRUPT CB					
400A	75	208	300	(1) #1 - 600	(3) 3/0 - 500	(2) 2 1/2	1420	1375	5200	11400
400A	125	480	200	(1) #4 - 350	(1) 1/0 - 350	(2) 2 1/2	2030	1375	6500	11400
	125	600	150	(1) #4 - 350	(1) #4 - 350	(2) 2 1/2	2030	1375	6500	11400
600A	150	480	225	(1) #4 - 350	(1) 1/0 - 350	(2) 2 1/2	2240	1375	7300	16700
	150	600	200	(1) #4 - 350	(1) 1/0 - 350	(2) 2 1/2	2240	1375	7300	16700
600A*	225*	480	400	(1) #1 - 600	(3) 3/0 - 500	(2) 2 1/2	2670	1375	9800	16700
	225*	600	300	(1) #1 - 600	(3) 3/0 - 500	(2) 2 1/2	2670	1375	9800	16700

\* RATED AT 216 KVA

TABLE 2  
OUTPUT POWER CONNECTIONS

TRIP AMPS	WIRE CONNECTIONS
10 - 30	#14 - 8
35 - 70	#8 - 2
80 - 125	#4 - 2/0

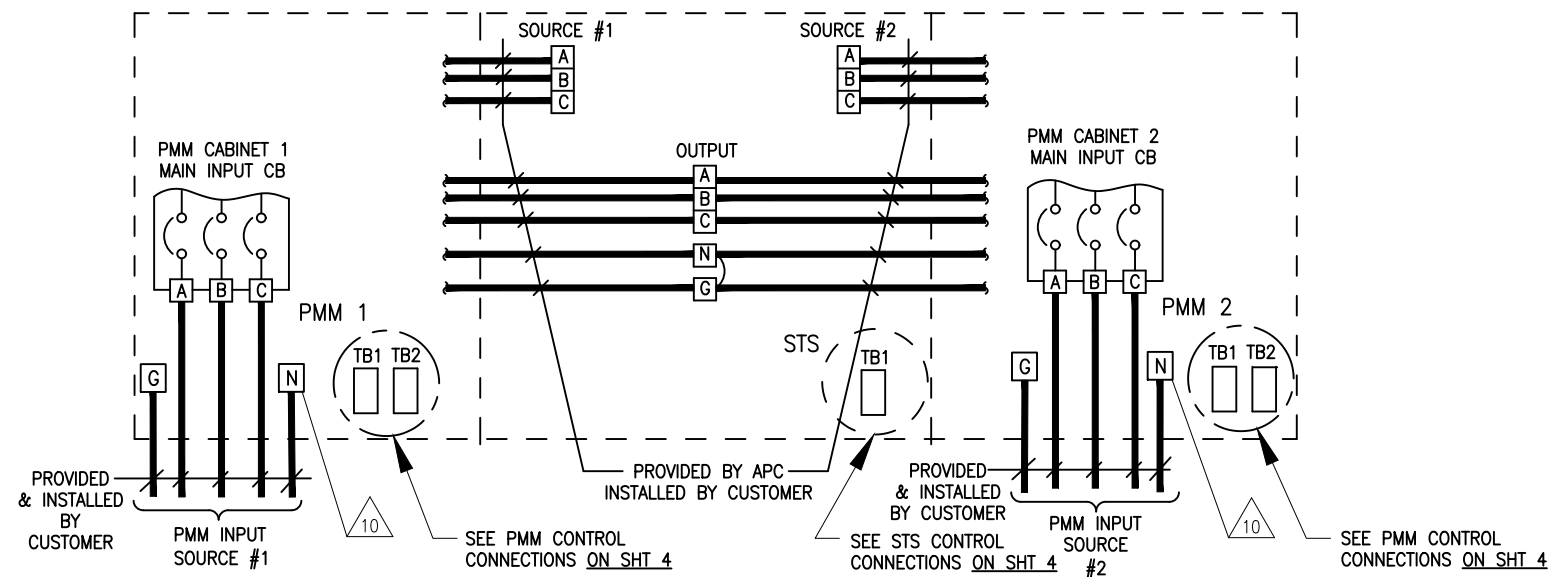


DETAIL - A

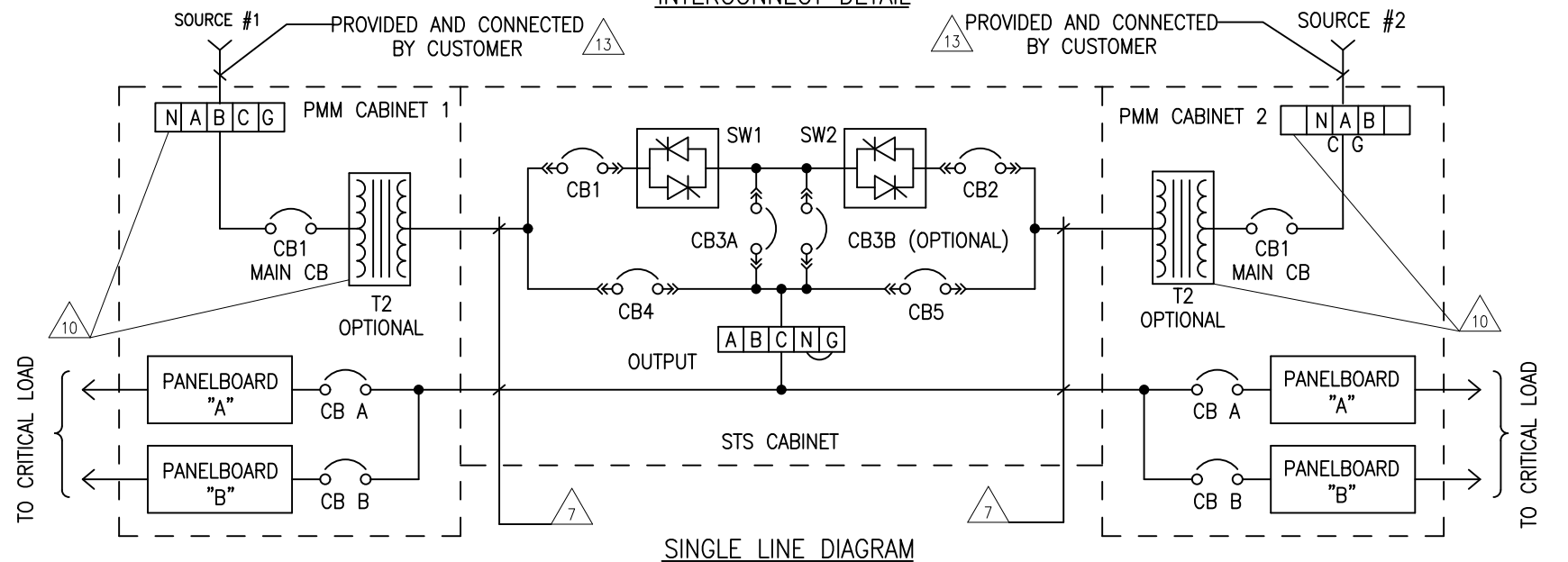
<-- BOTTM ENTRY / TOP ENTRY-->

- △<sub>14</sub> THIS CABLE TRAY IS REQUIRED FOR ALL TOP ENTRY UNITS TO PREVENT DAMAGE TO PCBA'S & TO KEEP CONTROL CIRCUITS AWAY FROM POWER CIRCUITS. IT CAN TEMPORARILY BE REMOVED TO AID IN PULLING CABLES BUT CAN NOT BE LEFT OUT. IT ACTS AS A PROTECTIVE BARRIER AND OUTPUT CABLE TRAY. SYSTEM WARRANTY IS VOID IF LEFT OUT. FURTHERMORE. LEAVING IT OUT CAN CAUSE SYSTEM MALFUNCTIONS OR FAILURE.
- △<sub>13</sub> USE SEPARATE CONDUITS ON EACH STS SOURCE INPUT. SEE TABLE 2 FOR CABLE SIZING
- 12. STS SWITCHES STANDARD, CIRCUIT BREAKERS OPTIONAL.
- 11. WHEN MAKING INPUT CONNECTIONS, MAKE SURE THAT THE EXISTING CONTROL WIRING ARE KEPT IN PLACE.
- △<sub>10</sub> INPUT NEUTRAL BUSBAR IN PMM CABINET IS ONLY PROVIDED ON TRANSFORMERLESS PMM MODELS. IF USED, CONNECT NEUTRAL CABLES AS SHOWN.
- 9. IF OPTIONAL J-BOX IS SUPPLIED, REFER TO SEPARATE INSTALLATION DRAWINGS.
- 8. ALL CABLE CONNECTIONS ARE BASED ON CUSTOMER SUPPLIED COPPER WIRE RATED 75°C
- △<sub>7</sub> INTERCONNECT PROVIDED BY MGE, CONNECTED BY CUSTOMER. FOR CABINET INTERCONNECT SEE DETAIL - K.
- △<sub>6</sub> CUSTOMER TO REMOVE AND CUT HOLES IN CONDUIT PLATE AS REQUIRED.
- 5. FOLLOW THE NEC (NATIONAL ELECTRICAL CODE) AND OTHER APPLICABLE LOCAL CODES.
- △<sub>4</sub> HEAT LOSS BASED ON FULL RESISTIVE LOAD CAN VARY +/-10% UNDER DIFFERENT LOAD CONDITIONS.
- △<sub>3</sub> 6.00 INCHES REAR CLEARANCE IS REQUIRED FOR VENTILATION. 36.00 INCHES FRONT CLEARANCE FOR MAINTENANCE.
- 2. REFER TO OWNERS MANUAL FOR INSTALLATION AND OPERATING INSTRUCTIONS.
- 1. COLOR: LIGHT GREY.

NOTES: UNLESS OTHERWISE SPECIFIED.



INTERCONNECT DETAIL



SINGLE LINE DIAGRAM

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TITLE:  
MGE POWER MANAGEMENT MODULE  
SYSTEM 168 PMM ULTRA 400/600A STS  
INSTALLATION DRAWING

DWG NO:  
90-505023-00

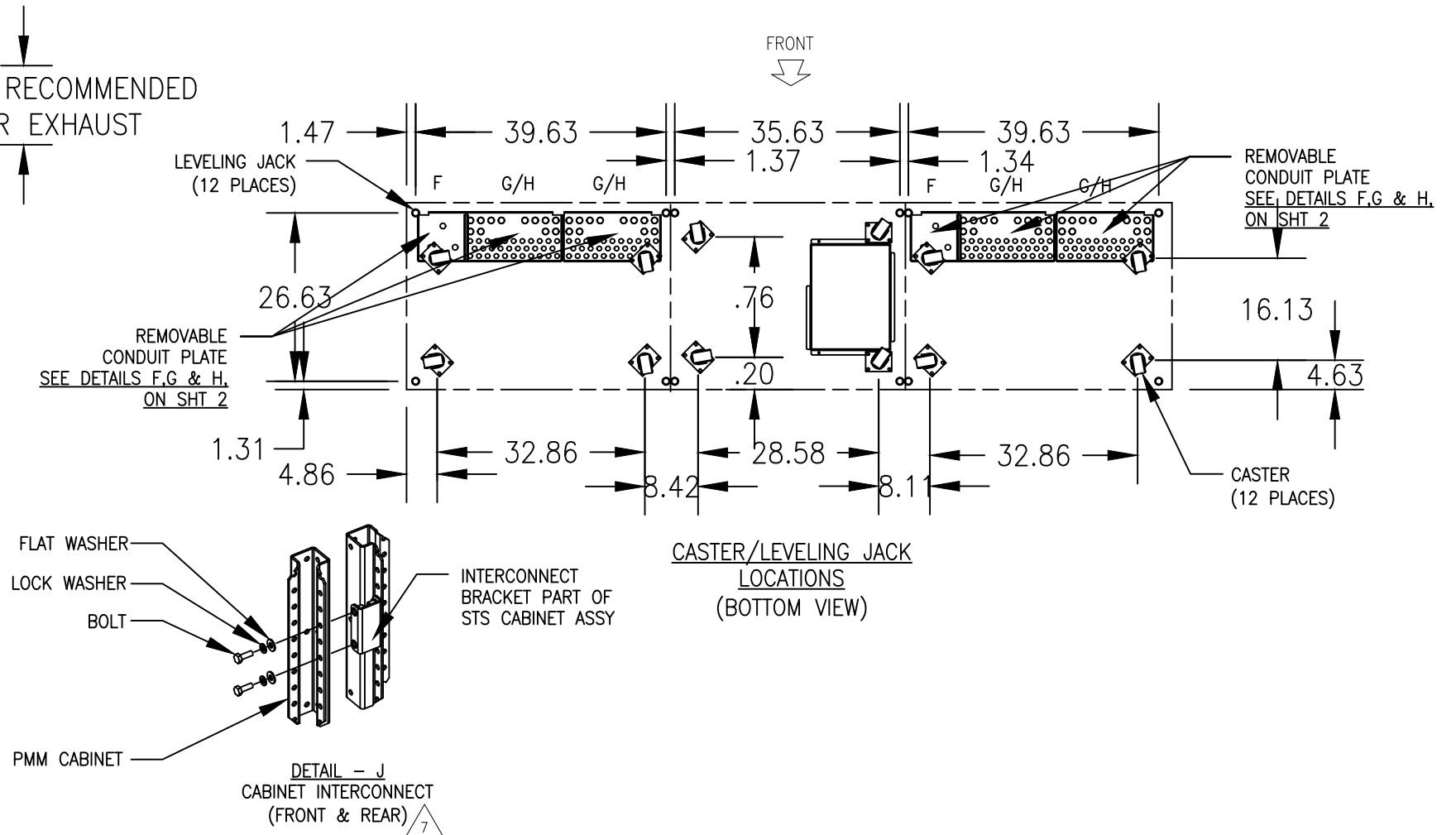
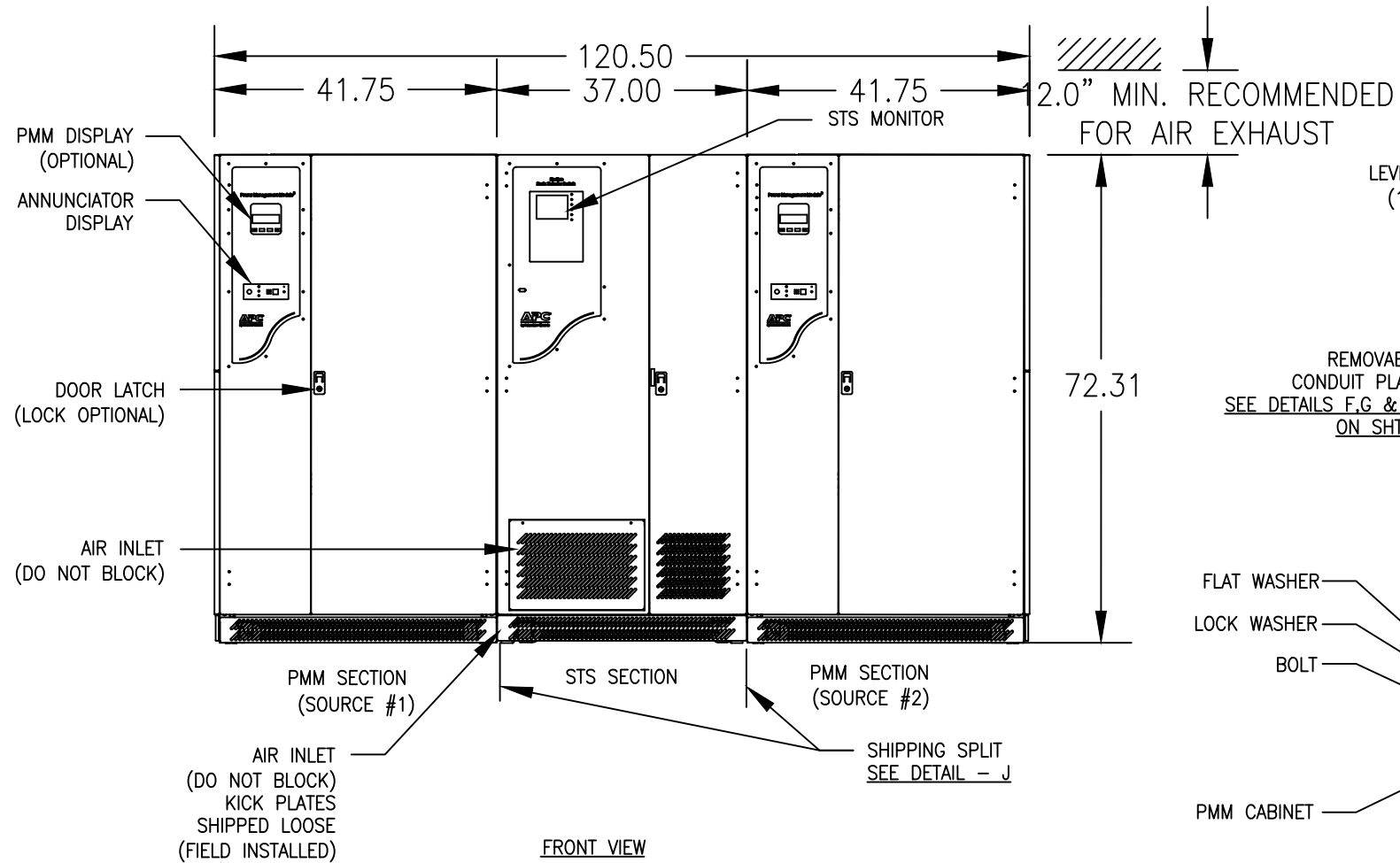
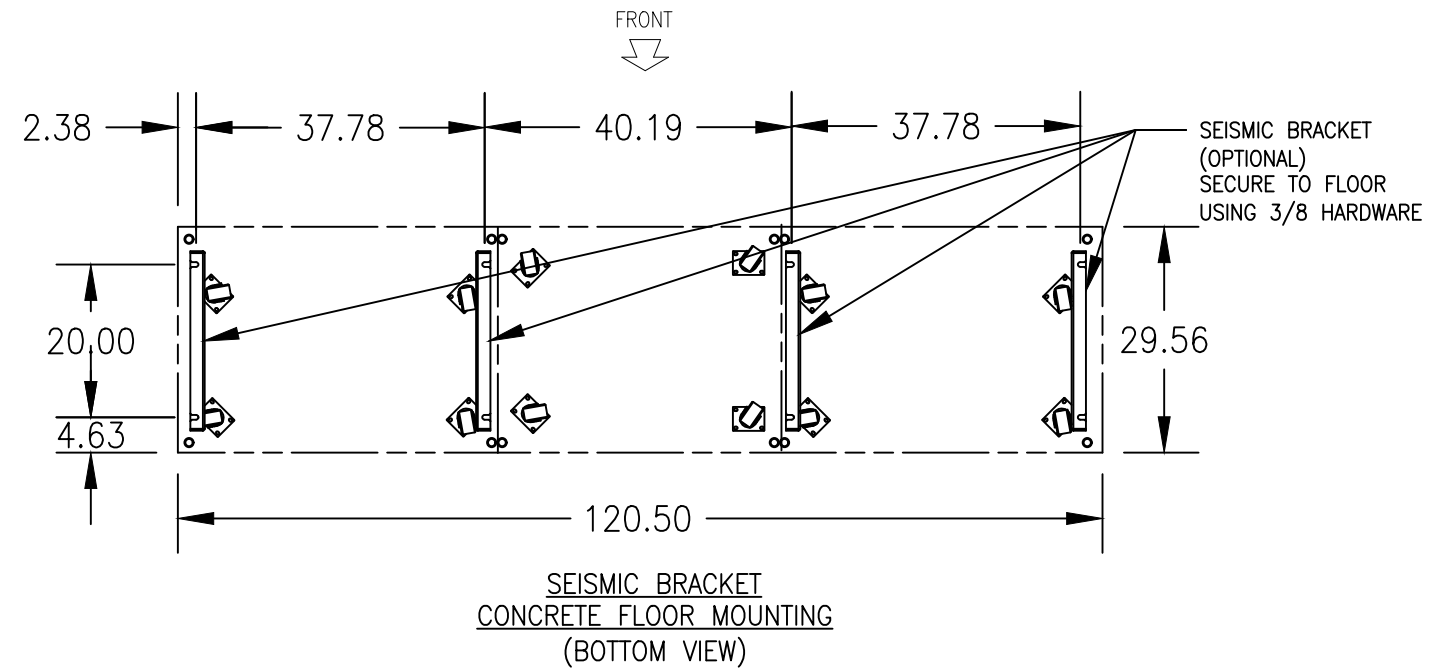
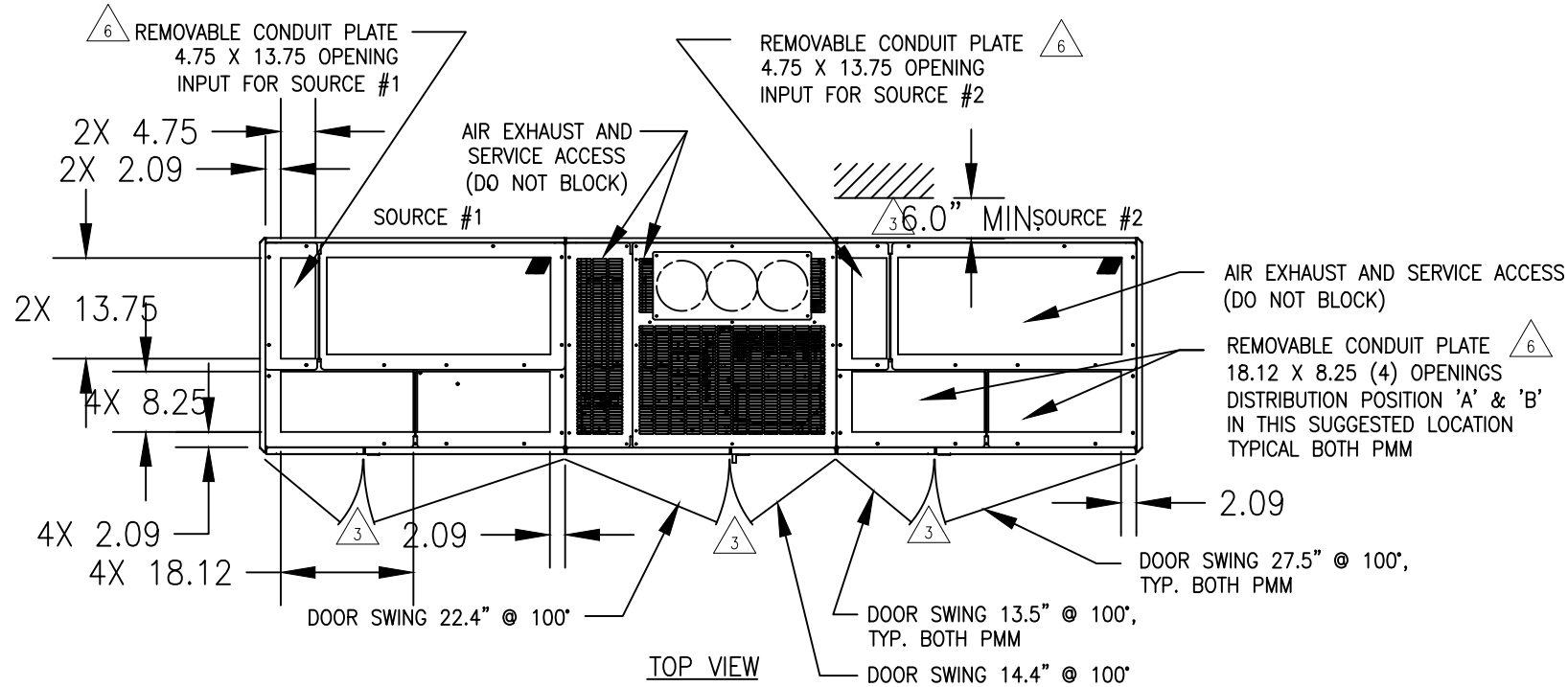
PROJECT: STD SUBMITAL DRAWINGS SHEET 1 OF 4

REV. 3

DRAWN:	HD	20-MAR-02	PROJ. ANGLE N/A
ENGINEER:	YRS	20-MAR-02	
APPROVED:	I KENNEDY	20-MAR-02	



SYSTEM DIMENSIONS & COMPONENT LOCATIONS



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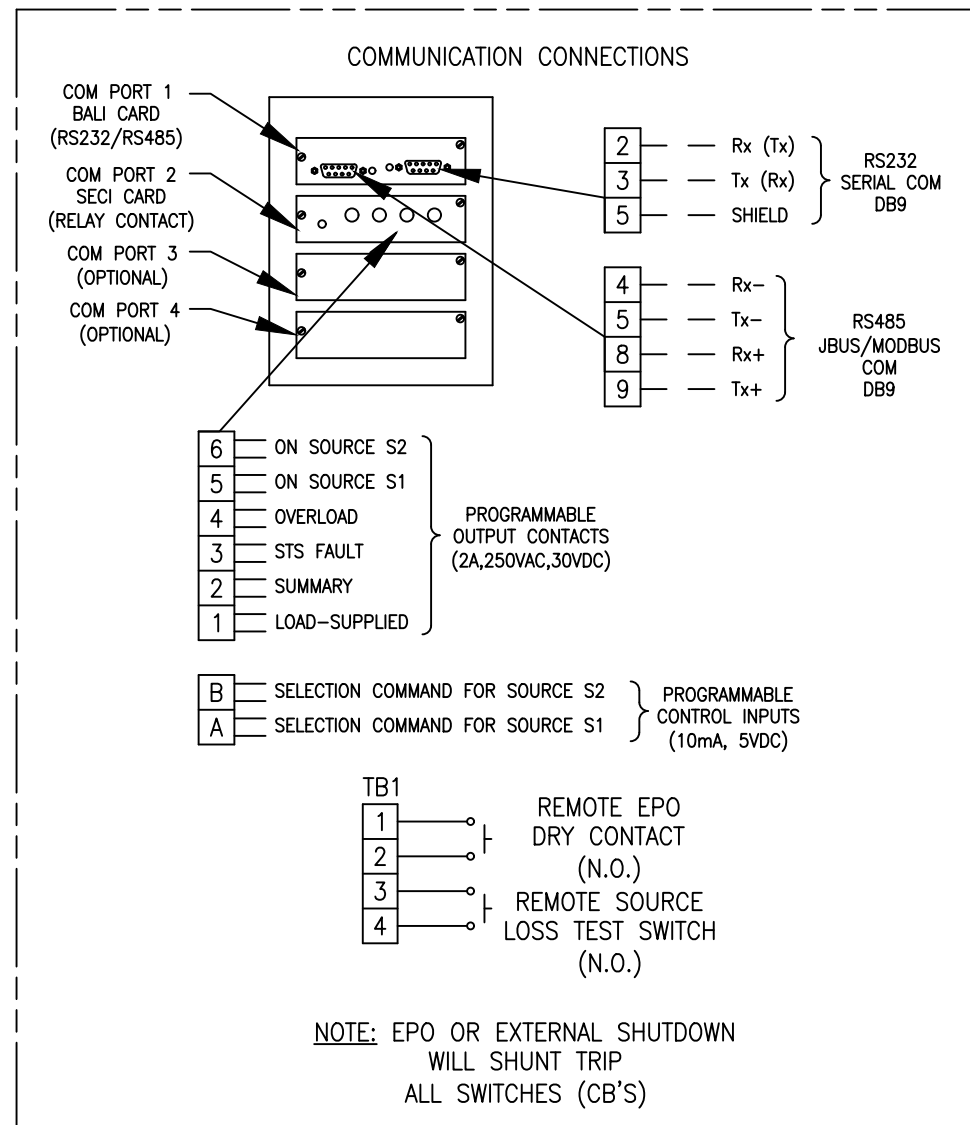


TITLE:  
MGE POWER MANAGEMENT MODULE  
SYSTEM 168 PMM ULTRA 400/600A STS  
INSTALLATION DRAWING

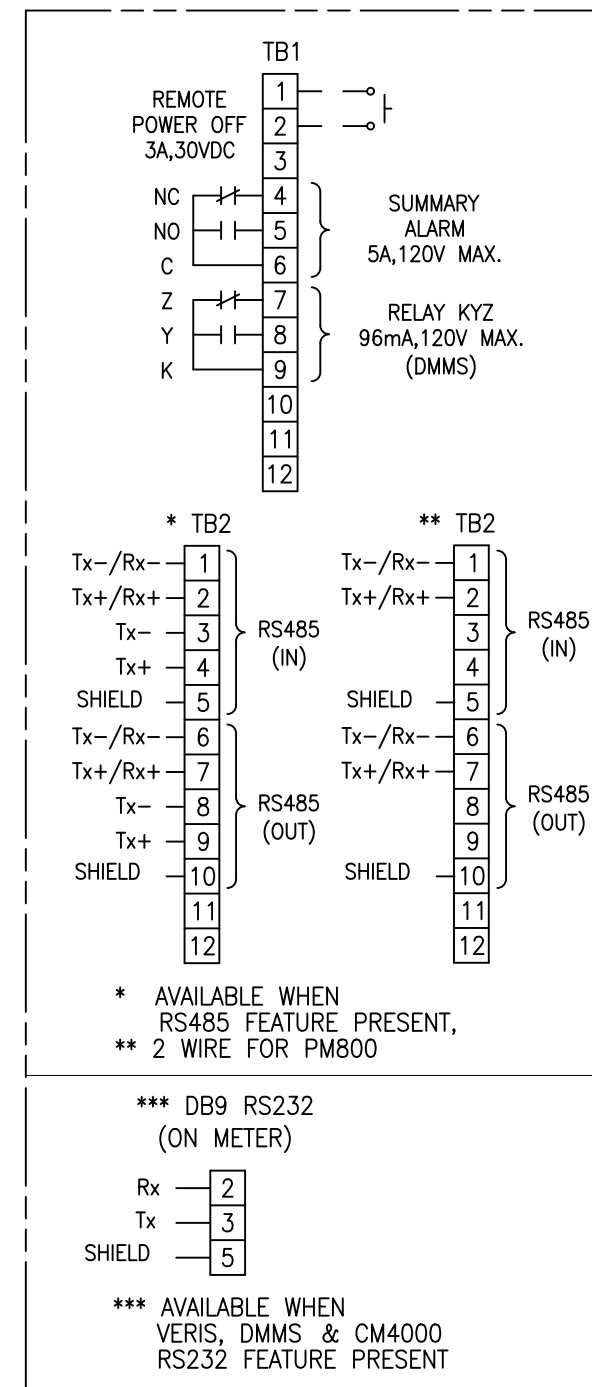
PROJECT: STD SUBMITAL DRAWINGS SHEET 3 OF 4

DWG NO:	90-505023-00	REV.	2
DRAWN:	HD	DATE:	20-MAR-02
ENGINEER:	YRS	DATE:	20-MAR-02
APPROVED:	I KENNEDY	DATE:	20-MAR-02
PROJ. ANGLE:	N/A		

### STS CONTROL CONNECTIONS



### PMM CONTROL CONNECTIONS



NOTES: UNLESS OTHERWISE SPECIFIED.

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TITLE: MGE POWER MANAGEMENT MODULE SYSTEM 168 PMM ULTRA 400/600A STS INSTALLATION DRAWING

PROJECT: STD SUBMITTAL DRAWINGS SHEET 4 OF 4

DWG NO: 90-505023-00 REV. 2

DRAWN: HD 20-MAR-02

ENGINEER: YRS 20-MAR-02

APPROVED: I KENNEDY 20-MAR-02

PROJ. ANGLE N/A

SHT	DRAWING NUMBER	REVISION								REVISION DESCRIPTION	REVISION INITIATED BY (ECO/ENGR)	REVISION APPROVED BY
		2										
1	90-505023-00_1	11/23/2010								SE TEMPLATE INCORPORATED	E.D.	E.D.
2	90-505023-00_2	11/23/2010								SE TEMPLATE INCORPORATED	E.D.	E.D.
3	90-505023-00_3	11/23/2010								SE TEMPLATE INCORPORATED	E.D.	E.D.
4	90-505023-00_4	11/23/2010								SE TEMPLATE INCORPORATED	E.D.	E.D.

NOTE:  
SEE BELOW FOR PREVIOUS REVISIONS.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A00	NEW RELEASE ECN-002680	6/12/2002	I KENNEDY
B00	REVISED PER ECN-002822	8/21/2002	I KENNEDY
C00	REVISED PER ECN-003493	6/6/2005	I KENNEDY
1	REVISED PER ECO BR-3819	9/16/2009	RH
3	REVISED PER XFMR CHANGE	4/3/2017	G. RAMIREZ

FILE: 90-505023-00REV3	INITIALLY DRAWN BY: HD	FILE REV: 3
INITIAL RELEASE: 20-MAR-02	INITIALLY APPROVED BY: YRS/IK	DATE: 3-ABR-17