

**CAUTION:**

**HIGH CENTER OF GRAVITY - USE CAUTION WHEN MOVING CABINET**

ONLY PERSONNEL TRAINED TO MOVE HEAVY EQUIPMENT SHOULD HANDLE THESE BATTERY SYSTEMS.

MOVE SLOWLY WHEN HANDLING. AVOID BOUNCING THE CABINET WHILE MOVING. THE CABINET COULD FALL FORWARD OR SIDEWAYS IF HANDLED ROUGHLY.

USE A FORKLIFT OR SIMILAR DEVICE WITH APPROPRIATE LIFTING CAPACITY TO LIFT THE CABINET.

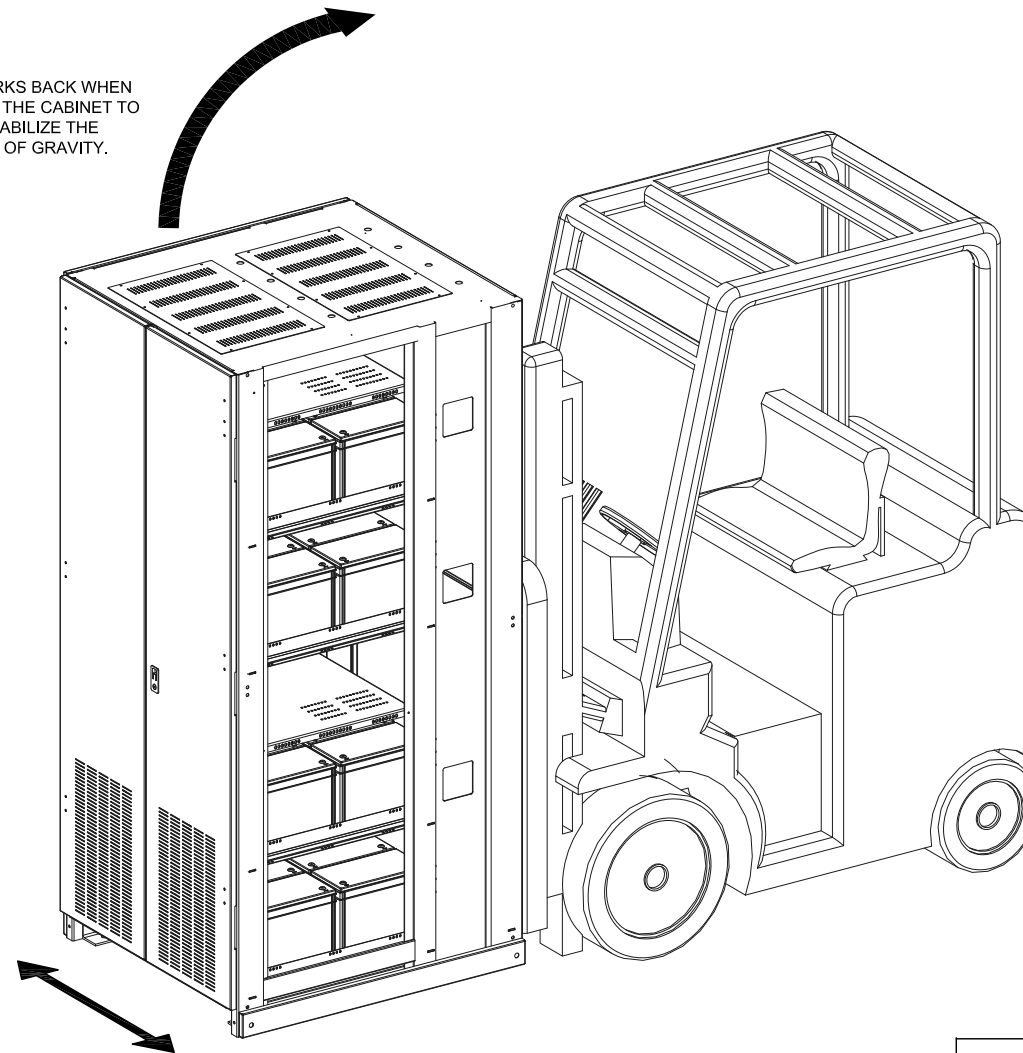
CABINET SYSTEMS ARE HEAVY AND COULD WEIGH AS MUCH AS 5,500 LBS PER CABINET

SEE PAGE 2 OF 7 FOR CENTER OF GRAVITY MEASUREMENT

**STEPS FOR BATTERY CABINET INSTALLATION PROCEDURE**

1. RECOMMEND INSTALLING THE UPS FIRST IN ITS FINAL LOCATION. (REFER TO THE UPS INSTALLATION MANUAL AND INSTALLATION DRAWINGS).
2. TO HELP PREVENT DAMAGE, ALL PANELS FROM ALL BATTERY CABINETS SHOULD BE REMOVED AND PUT ASIDE IN A SAFE LOCATION WHILE MOVING THE CABINETS TO FINAL INSTALL POSITION.
3. INSTALL AND ALIGN THE FIRST CABINET AS CLOSE AS POSSIBLE TO THE LEFT SIDE OF THE UPS THEN ADJACENT TO EACH OTHER. STARTING FROM THE RIGHT AND WORKING TO THE LEFT, THE BATTERY CABINETS SHOULD BE BOLTED TOGETHER. REFER TO PAGE 3 OF 7 FOR PROPER LINE UP.
4. ROUTE THE POWER CABLES AS SHOWN ON SHEET 5 OF 7.
5. INSTALL SIDE PANEL ONTO THE LEFT SIDE OF FAR LEFT BATTERY CABINET (LAST CABINET ON LEFT IN SERIES).
6. THE CABINET MUST BE ANCHORED TO THE FLOOR FOR SEISMIC SENSITIVE AREAS. ANCHORING HARDWARE IS NOT INCLUDED. CONTACT INTRAPACK TO PURCHASE ANCHORING HARDWARE

TILT FORKS BACK WHEN MOVING THE CABINET TO HELP STABILIZE THE CENTER OF GRAVITY.



NOTE:  
FROM FLOOR TO CABINET  
LIFTING POINT IS 3.50"

SPREAD FORKS AS WIDE AS POSSIBLE WHEN LIFTING CABINETS.

**CAUTION: HIGH VOLTAGE, RISK OF ELECTRICAL SHOCK**

- FOLLOW ALL SAFETY PRECAUTIONS WHEN WORKING ON THIS SYSTEM
- ALWAYS WEAR PROPER SAFETY EQUIPMENT INCLUDING EYE PROTECTION

**MOVING A BATTERY CABINET**

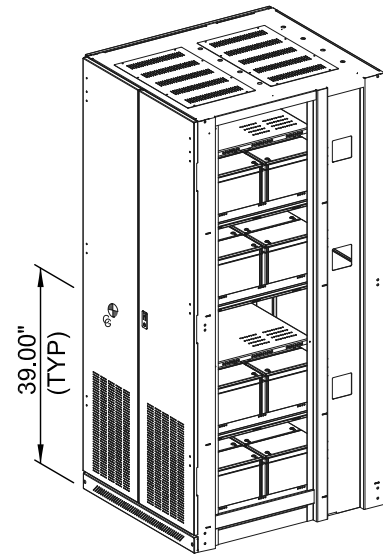
**DO NOT LIFT THE CABINET HIGHER THAN NECESSARY WHEN MOVING**

\* AFTER REVIEWING THIS DRAWING, IF QUESTIONS REMAIN: CONTACT INTRAPACK.

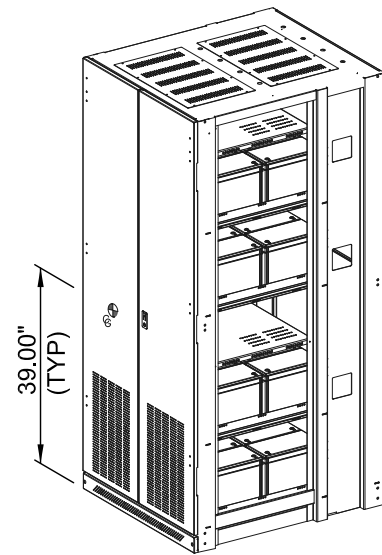
MARKETING NO.		MGEDM-20012V-480-5-5D-A	
DRAWING SIZE: B NOT TO SCALE		 © 10817 SANDEN DRIVE DALLAS, TX. 75238 PHONE: 214-348-7105 FAX: 214-348-7115 EMAIL: SALES@INTRAPACK.COM WWW.INTRAPACK.COM	
DRAWN BY	DATE	DESCRIPTION PLEASE INSERT JOB INFO	
DBC	XX/XX/XX		
APPR.	DATE		
XX/XX/XX	XX/XX/XX		
SHEET 1 OF 7		DRAWING NO. MGEDM-20012V-480-5-5D-A	
		REV. 01	

**CAUTION:**  
SPREAD FORKS AS WIDE AS  
POSSIBLE WHEN LIFTING CABINETS.  
(SEE PAGE 1 OF 7)

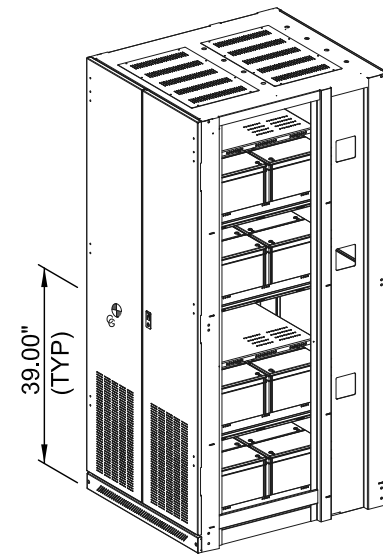
PLASTIC WRAP COVERS ENTIRE UNIT  
(TYPICAL ON ALL UNITS)



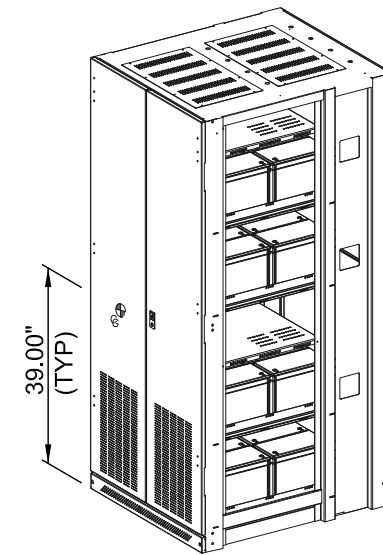
CABINET E



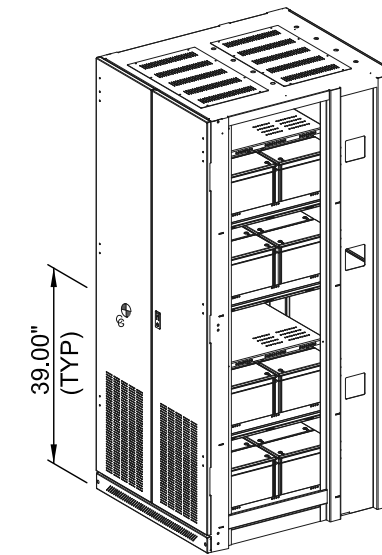
CABINET D



CABINET C



CABINET B



CABINET A

## INSPECTING THE BATTERY CABINETS

### STEPS FOR BATTERY CABINET INSTALLATION PROCEDURE

1. RECOMMEND INSTALLING THE UPS FIRST IN ITS FINAL LOCATION.  
(REFER TO THE UPS INSTALLATION MANUAL AND INSTALLATION DRAWINGS).
2. TO HELP PREVENT DAMAGE, ALL PANELS FROM ALL BATTERY CABINETS SHOULD BE REMOVED AND PUT ASIDE IN A SAFE LOCATION WHILE MOVING THE CABINETS TO FINAL INSTALL POSITION.
3. INSTALL AND ALIGN THE FIRST CABINET AS CLOSE AS POSSIBLE TO THE LEFT SIDE OF THE UPS THEN ADJACENT TO EACH OTHER. STARTING FROM THE RIGHT AND WORKING TO THE LEFT, THE BATTERY CABINETS SHOULD BE BOLTED TOGETHER. REFER TO PAGE 3 OF 7 FOR PROPER LINE UP.
4. ROUTE THE POWER CABLES AS SHOWN ON SHEET 5 OF 7.
5. INSTALL SIDE PANEL ONTO THE LEFT SIDE OF FAR LEFT BATTERY CABINET (LAST CABINET ON LEFT IN SERIES).
6. THE CABINET MUST BE ANCHORED TO THE FLOOR FOR SEISMIC SENSITIVE AREAS. ANCHORING HARDWARE IS NOT INCLUDED. CONTACT INTRAPACK TO PURCHASE ANCHORING HARDWARE

### CAUTION:

CABINETS HAVE HIGH CENTER OF GRAVITY.  
HANDLE WITH CARE.

CABINET SYSTEMS ARE HEAVY AND COULD WEIGH AS MUCH  
AS 5,500 LBS PER CABINET

### NOTE:

THE BATTERY SYSTEM IS INSTALLED FROM  
RIGHT TO LEFT, WITH CABINET NO. A  
CLOSEST TO THE UPS EQUIPMENT.

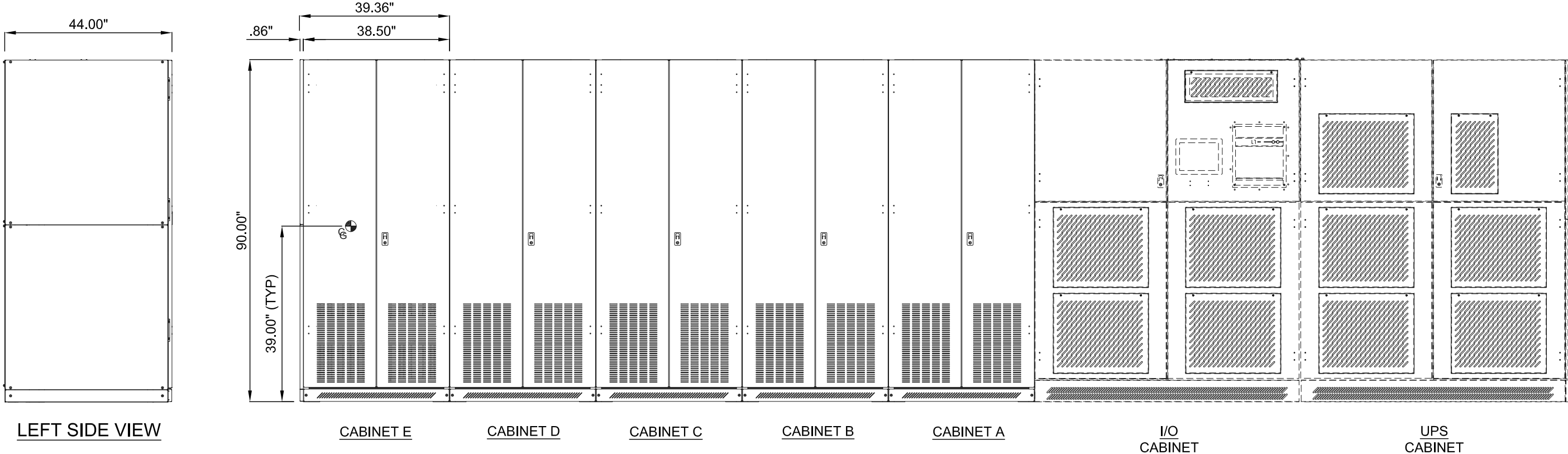
### CAUTION: HIGH VOLTAGE, RISK OF ELECTRICAL SHOCK

- FOLLOW ALL SAFETY PRECAUTIONS WHEN WORKING ON THIS SYSTEM
- ALWAYS WEAR PROPER SAFETY EQUIPMENT INCLUDING EYE PROTECTION

\* AFTER REVIEWING THIS DRAWING, IF QUESTIONS REMAIN: CONTACT INTRAPACK.

MARKETING NO.		MGEDM-20012V-480-5-5D-A	
DRAWING SIZE: B NOT TO SCALE		 10817 SANDEN DRIVE DALLAS, TX. 75238 PHONE: 214-348-7105 FAX: 214-348-7115 EMAIL: SALES@INTRAPACK.COM	
DRAWN BY	DATE		
DBC	XX/XX/XX	DESCRIPTION PLEASE INSERT JOB INFO	
APPR.	DATE		
XX/XX/XX	XX/XX/XX		
SHEET 2 OF 7		DRAWING NO. MGEDM-20012V-480-5-5D-A	
		REV. 01	

**DO NOT STAND ON TOP OF CABINETS**



**BATTERY CABINET SYSTEM LINEUP**

FRONT VIEW

**STEPS FOR BATTERY CABINET INSTALLATION PROCEDURE**

1. RECOMMEND INSTALLING THE UPS FIRST IN ITS FINAL LOCATION. (REFER TO THE UPS INSTALLATION MANUAL AND INSTALLATION DRAWINGS).
2. TO HELP PREVENT DAMAGE, ALL PANELS FROM ALL BATTERY CABINETS SHOULD BE REMOVED AND PUT ASIDE IN A SAFE LOCATION WHILE MOVING THE CABINETS TO FINAL INSTALL POSITION.
3. INSTALL AND ALIGN THE FIRST CABINET AS CLOSE AS POSSIBLE TO THE LEFT SIDE OF THE UPS THEN ADJACENT TO EACH OTHER. STARTING FROM THE RIGHT AND WORKING TO THE LEFT, THE BATTERY CABINETS SHOULD BE BOLTED TOGETHER. REFER TO PAGE 3 OF 7 FOR PROPER LINE UP.
4. ROUTE THE POWER CABLES AS SHOWN ON SHEET 5 OF 7.
5. INSTALL SIDE PANEL ONTO THE LEFT SIDE OF FAR LEFT BATTERY CABINET (LAST CABINET ON LEFT IN SERIES).
6. THE CABINET MUST BE ANCHORED TO THE FLOOR FOR SEISMIC SENSITIVE AREAS. ANCHORING HARDWARE IS NOT INCLUDED. CONTACT INTRAPACK TO PURCHASE ANCHORING HARDWARE

**CAUTION:**

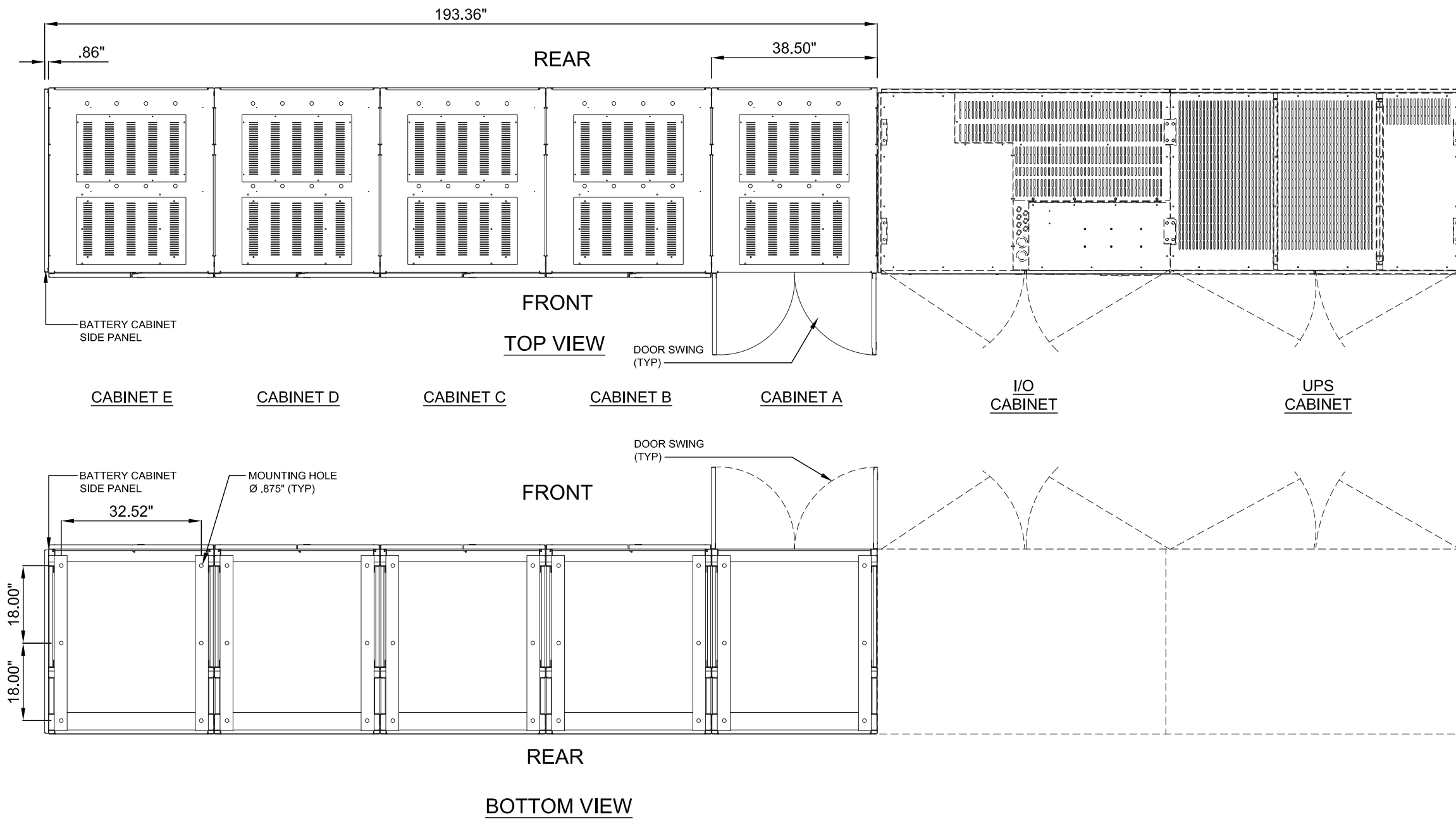
CABINETS HAVE HIGH CENTER OF GRAVITY. HANDLE WITH CARE.  
 CABINET SYSTEMS ARE HEAVY AND COULD WEIGH AS MUCH AS 5,500 LBS PER CABINET

**CAUTION: HIGH VOLTAGE, RISK OF ELECTRICAL SHOCK**

- FOLLOW ALL SAFETY PRECAUTIONS WHEN WORKING ON THIS SYSTEM
- ALWAYS WEAR PROPER SAFETY EQUIPMENT INCLUDING EYE PROTECTION

\* AFTER REVIEWING THIS DRAWING, IF QUESTIONS REMAIN: CONTACT INTRAPACK.

MARKETING NO.		MGEDM-20012V-480-5-5D-A	
DRAWING SIZE: B NOT TO SCALE		 © 10817 SANDEN DRIVE DALLAS, TX. 75238 PHONE: 214-348-7105 FAX: 214-348-7115 EMAIL: SALES@INTRAPACK.COM	
DRAWN BY	DATE	DESCRIPTION PLEASE INSERT JOB INFO	
DBC	XX/XX/XX		
APPR.	DATE		
XX/XX/XX	XX/XX/XX	SHEET <b>3</b> OF <b>7</b>	
DRAWING NO.		MGEDM-20012V-480-5-5D-A	
REV.		01	



**BATTERY CABINET SYSTEM LINEUP**

**CAUTION: HIGH VOLTAGE, RISK OF ELECTRICAL SHOCK**

- FOLLOW ALL SAFETY PRECAUTIONS WHEN WORKING ON THIS SYSTEM
- ALWAYS WEAR PROPER SAFETY EQUIPMENT INCLUDING EYE PROTECTION

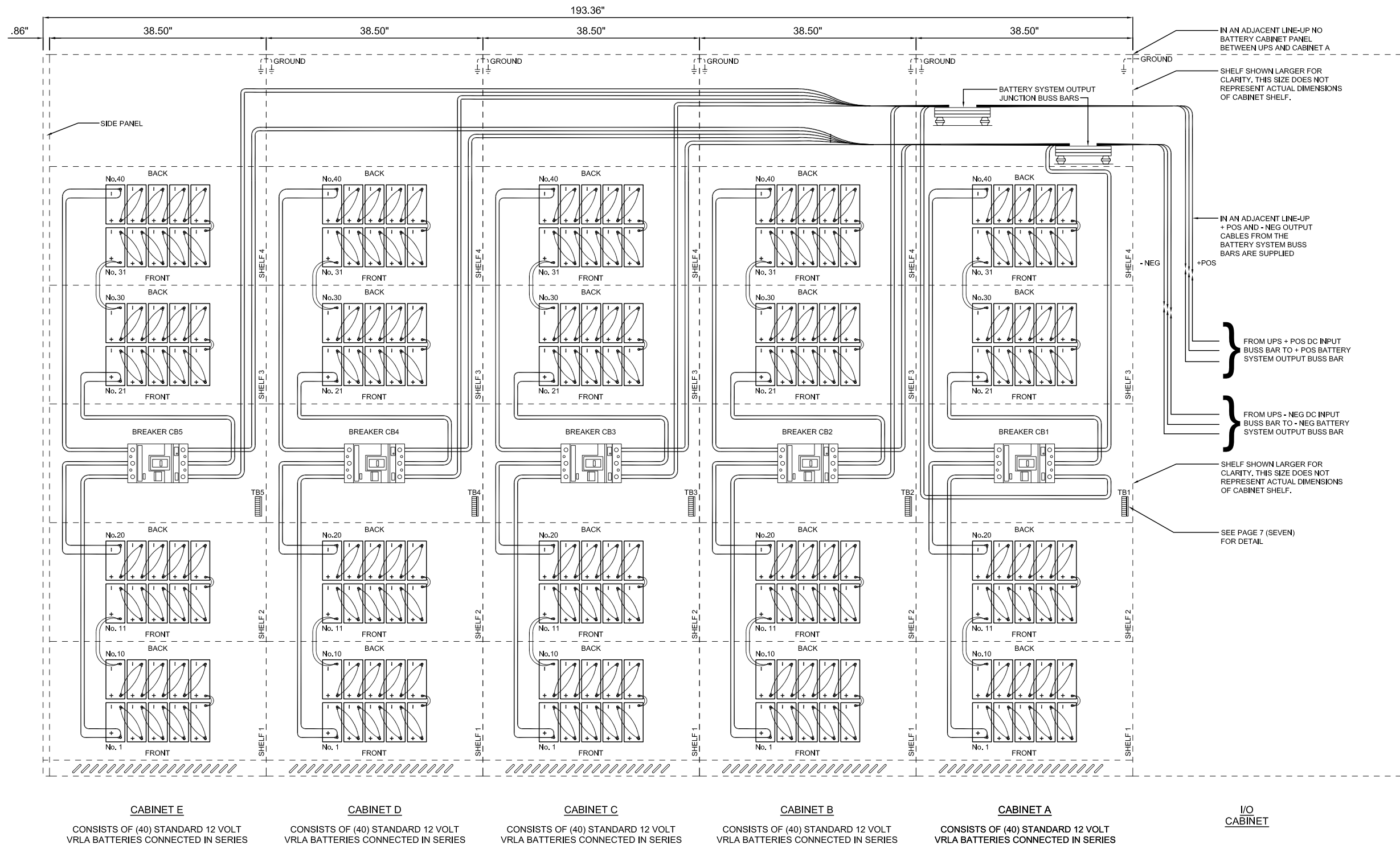
**CAUTION:**

CABINETS HAVE HIGH CENTER OF GRAVITY. HANDLE WITH CARE.

CABINET SYSTEMS ARE HEAVY AND COULD WEIGH AS MUCH AS 5,500 LBS PER CABINET

\* AFTER REVIEWING THIS DRAWING, IF QUESTIONS REMAIN: CONTACT INTRAPACK.

MARKETING NO.		MGEDM-20012V-480-5-5D-A	
DRAWING SIZE: B NOT TO SCALE		 © 10817 SANDEN DRIVE DALLAS, TX. 75238 PHONE: 214-348-7105 FAX: 214-348-7115 EMAIL: SALES@INTRAPACK.COM	WWW.INTRAPACK.COM
DRAWN BY	DATE		
DBC	XX/XX/XX	DESCRIPTION PLEASE INSERT JOB INFO	
APPR.	DATE		
XX/XX/XX	XX/XX/XX		
SHEET 4 OF 7		DRAWING NO. MGEDM-20012V-480-5-5D-A	
		REV. 01	



**GENERAL NOTES:**

1. ONLY QUALIFIED TECHNICIANS SHOULD PERFORM INSTALLATION OR MAINTENANCE OF THIS BATTERY SYSTEM.
2. ALL TOOLS SHOULD BE INSULATED TO PREVENT ELECTRICAL SHOCK.
3. OPEN DISCONNECTS BEFORE INSTALLATION OR MAINTENANCE.
4. CHECK DC VOLTAGE AT BATTERY OUTPUT AND UPS OUTPUT TO ENSURE PROPER POLARITY BEFORE MAKING FINAL CONNECTIONS.

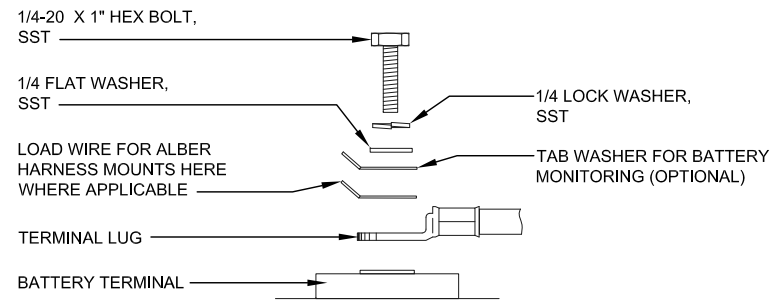
**CAUTION: HIGH VOLTAGE, RISK OF ELECTRICAL SHOCK**

- FOLLOW ALL SAFETY PRECAUTIONS WHEN WORKING ON THIS SYSTEM
- ALWAYS WEAR PROPER SAFETY EQUIPMENT INCLUDING EYE PROTECTION

**ELECTRICAL ILLUSTRATION**

\* AFTER REVIEWING THIS DRAWING, IF QUESTIONS REMAIN: CONTACT INTRAPACK.

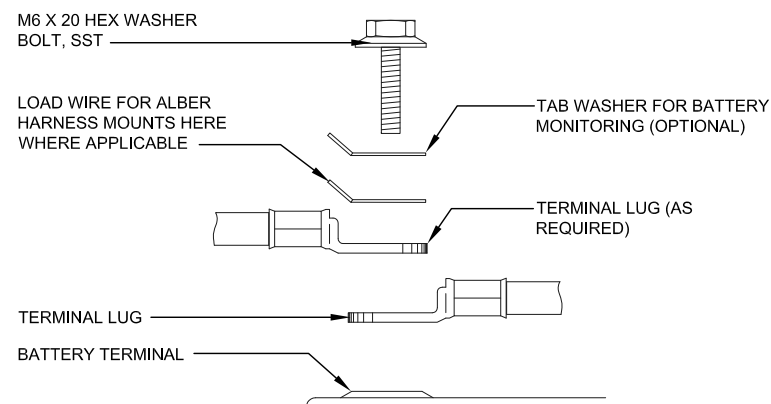
MARKETING NO.		MGEDM-20012V-480-5-5D-A	
DRAWING SIZE: B NOT TO SCALE		10817 SANDEN DRIVE DALLAS, TX. 75238 PHONE: 214-348-7105 FAX: 214-348-7115 EMAIL: SALES@INTRAPACK.COM	
DRAWN BY	DATE	<b>DESCRIPTION</b> PLEASE INSERT JOB INFO	
DBC	XX/XX/XX		
APPR.	DATE		
XX/XX/XX	XX/XX/XX		
SHEET <b>5</b> OF <b>7</b>		DRAWING NO. MGEDM-20012V-480-5-5D-A	
		REV. 01	



### INSERT-TYPE POST (DYNASTY)

C&D DYNASTY UPS 12-540MR,  
UPS12-490MR, UPS12-400MR  
TORQUE TO 110 IN-LBS.

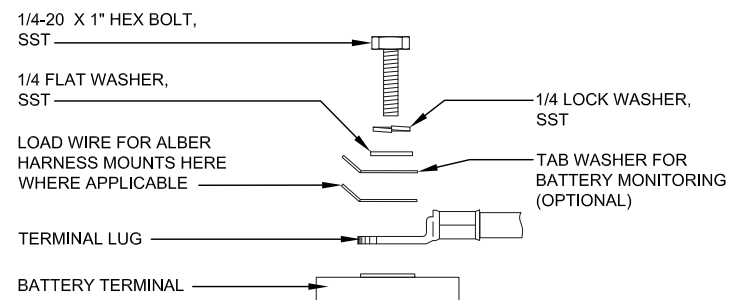
MANUFACTURERS WEB SITE - [http://www.cdstandbypower.com/product/battery/vrla/pdf/41\\_9027hrm.pdf](http://www.cdstandbypower.com/product/battery/vrla/pdf/41_9027hrm.pdf)



### INSERT-TYPE POST (SPRINTER)

GNB SPRINTER SERIES  
TORQUE TO 100 IN-LBS.

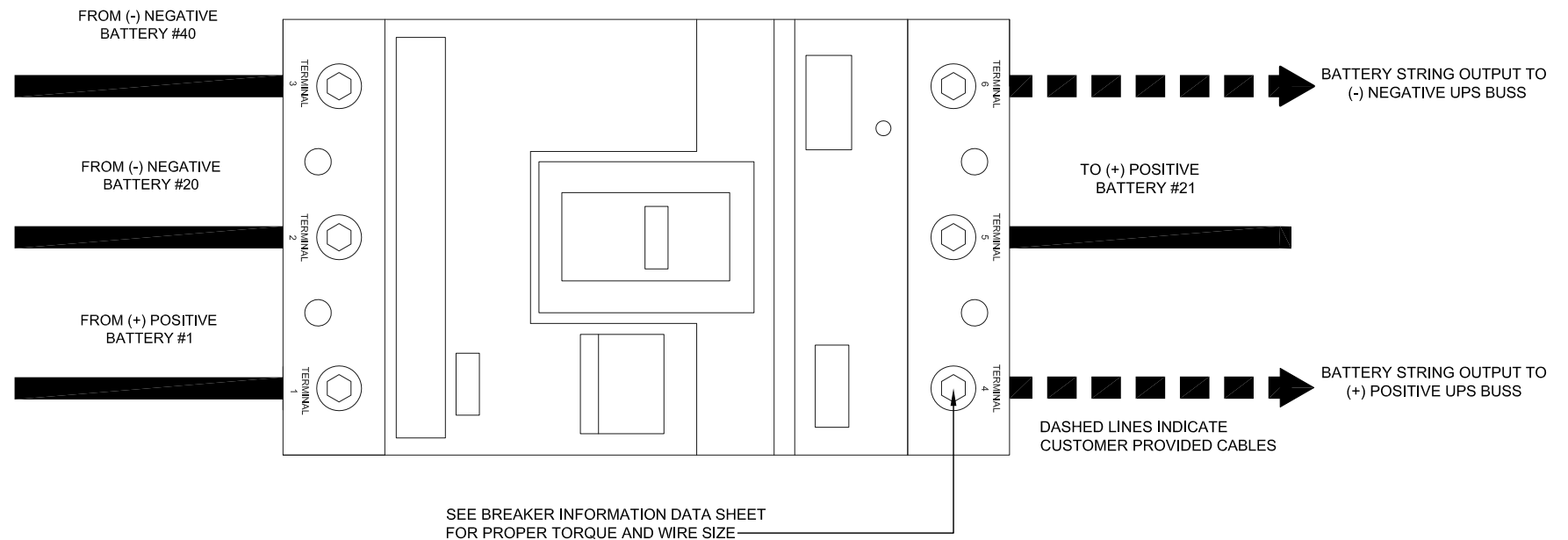
MANUFACTURERS WEB SITE - [http://www.industrialenergy.exide.com/exidepdfs/SprinterS\\_t\\_en.PDF](http://www.industrialenergy.exide.com/exidepdfs/SprinterS_t_en.PDF)



### INSERT-TYPE POST (ENERSYS)

ENERSYS HX540, HX500, HX400,  
HX330, HX300 TORQUE TO 110  
IN-LBS.

MANUFACTURERS WEB SITE - [http://www.enersysreservepower.com/documents/US-HX-RS-010\\_0308.pdf](http://www.enersysreservepower.com/documents/US-HX-RS-010_0308.pdf)

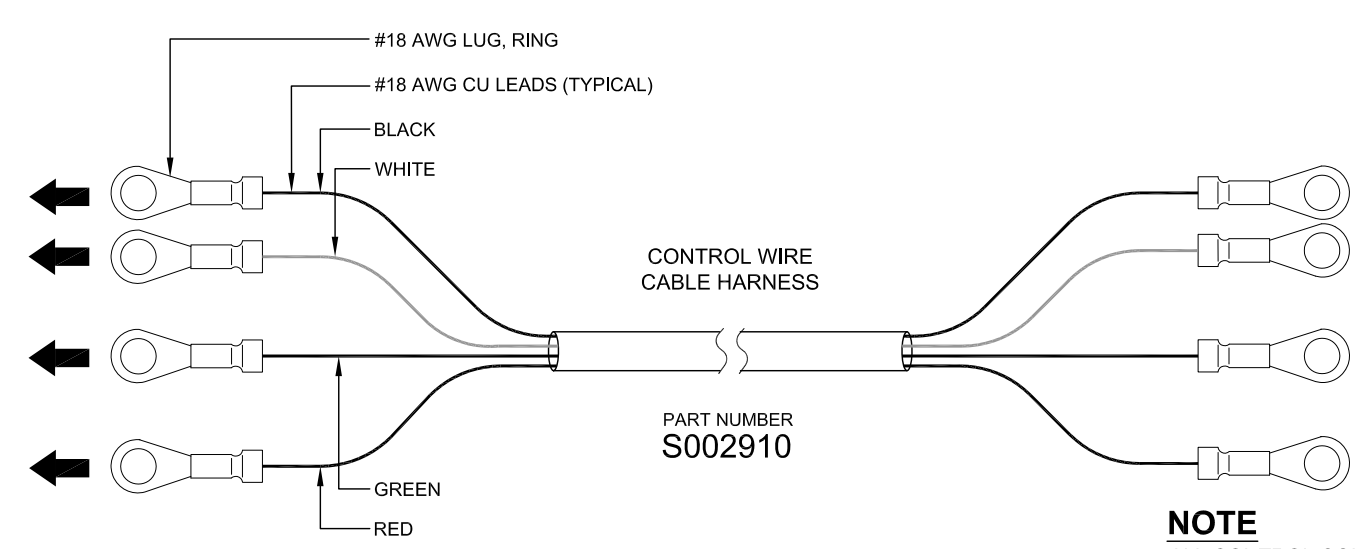
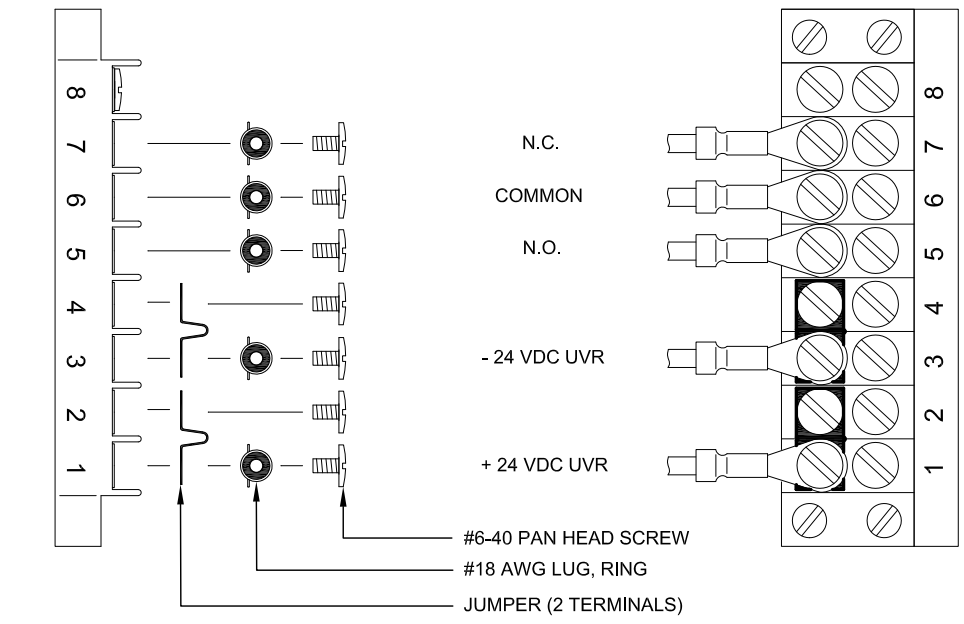
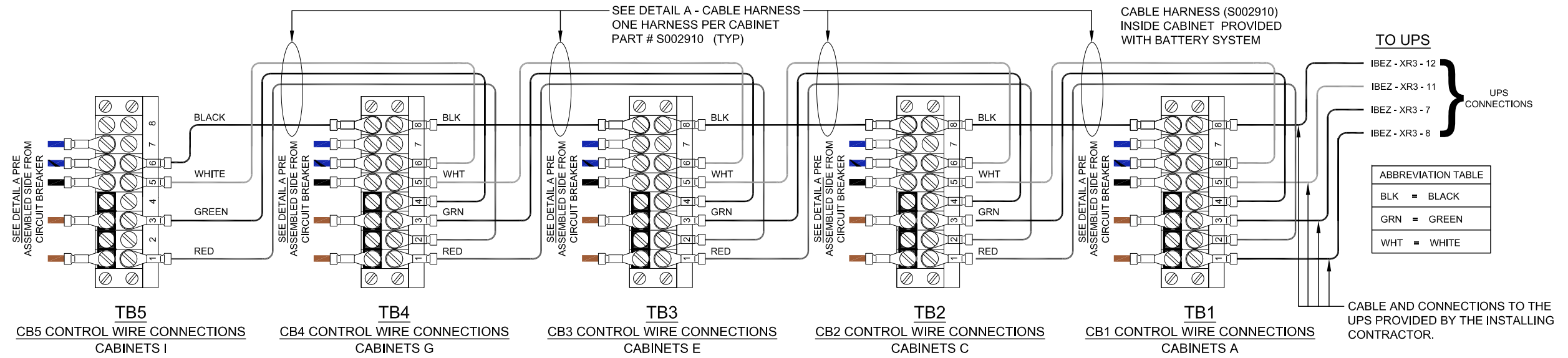


### BREAKER / CABLE CONNECTIONS

\* AFTER REVIEWING THIS DRAWING, IF QUESTIONS REMAIN: CONTACT INTRAPACK.

MARKETING NO.		MGEDM-20012V-480-5-5D-A	
DRAWING SIZE: B NOT TO SCALE		 10817 SANDEN DRIVE DALLAS, TX. 75238 PHONE: 214-348-7105 FAX: 214-348-7115 EMAIL: SALES@INTRAPACK.COM	
DRAWN BY	DATE		
DBC	XX/XX/XX	DESCRIPTION PLEASE INSERT JOB INFO	
APPR.	DATE		
XX/XX/XX	XX/XX/XX		
SHEET 6 OF 7		DRAWING NO. MGEDM-20012V-480-5-5D-A	
		REV. 01	

# CONTROL WIRING ROUTING



**NOTE**  
ALL CONTROL CONNECTIONS ARE MADE BY ONSITE INSTALLATION CONTRACTOR (TYPICAL)

## DETAIL A CONTROL WIRING DETAIL

24 VDC UNDERVOLTAGE TRIP (UVR) AND 2A/2B AUXILIARY CONTACTS

\* AFTER REVIEWING THIS DRAWING, IF QUESTIONS REMAIN: CONTACT INTRAPACK.

MARKETING NO.		MGEDM-20012V-480-5-5D-A	
DRAWING SIZE: B NOT TO SCALE		 10817 SANDEN DRIVE DALLAS, TX. 75238 PHONE: 214-348-7105 FAX: 214-348-7115 EMAIL: SALES@INTRAPACK.COM	
DRAWN BY	DATE		
DBC	XX/XX/XX	DESCRIPTION PLEASE INSERT JOB INFO	
APPR.	DATE		
XX/XX/XX	XX/XX/XX	DRAWING NO. MGEDM-20012V-480-5-5D-A	
SHEET 7 OF 7		REV. 01	