

# SAMPLE SWITCHGEAR REGULATOR SYSTEM DRAWINGS

## SEPTEMBER 2024

PLANS PREPARED BY:



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DRAWING INFORMATION:  
 ADB SAFEGATE COVER SHEET


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**COVER SHEET**

AIRPORT / CONTRACTOR SUPPLIED ITEMS					
ITEM #	PART NUMBER	DESCRIPTION	U/M	QTY	COMMENT(S)
CNK	---	L-823 CONNECTOR KIT	EA	A/R	SEE NOTE 1
HVC	---	L-824 HIGH VOLTAGE CABLE 5KV	FT	A/R	SEE NOTE 2
IPC	---	POWER CABLE FROM SWITCHBOARD, 3P & GND	FT	A/R	SEE NOTE 3
WUP	---	3 CONDUCTOR, 16AWG, STRANDED	FT	A/R	SEE NOTE 4

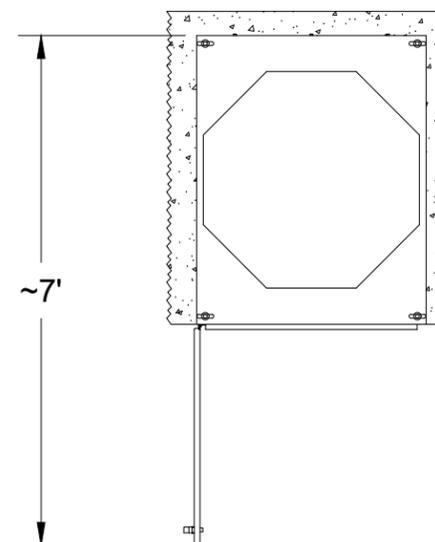
**CONTRACTOR NOTES:**



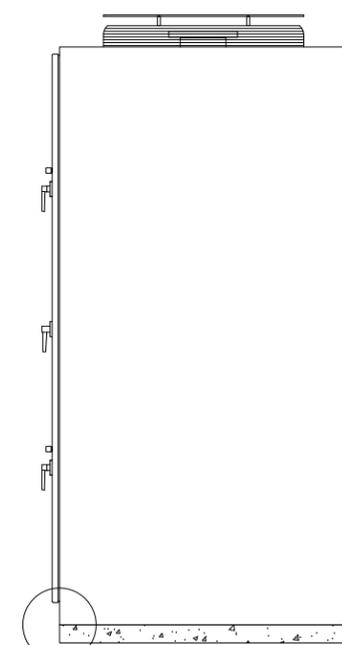
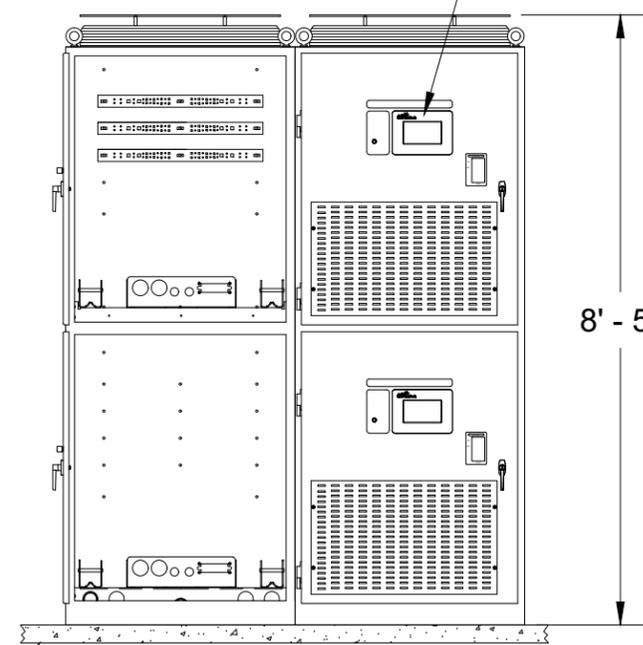
1. L-823 CONNECTOR KIT REQUIRED - 1 KIT PER POWER PACK, USED IN THE BOTTOM OF EACH POWERPACK BAY.
2. 5KVA SERIES CIRCUIT CABLE REQUIRED - 2 CABLES PER POWER PACK - TO BE PULLED FROM BOTTOM OF EACH BAY TO S1 CABINET, FED THROUGH CSR AND TERMINATED IN S1 CUTOUT. ADB PROVIDES FIELD CABLE TERMINATED WITH L-823 CONNECTORS, PULLED TO THE BOTTOM OF EACH BAY - PER POWERPACK. INSTALLING CONTRACTOR IS RESPONSIBLE FOR CABLES FROM HERE TO THE S1 CUTOUT.
3. SWITCHGEAR INPUT POWER CABLE - 480V, 600A 3 PHASE AND GROUND. PULLED FROM DISTRIBUTION SWITCHBOARD AND TERMINATED TO BUS BAR USING ADB SUPPLIED LUGS.
4. CABLES PULLED FROM ALCMS CABINET TO EACH LINE-UP, THEN TERMINATE USING MATING 3MP OR 3FP CONNECTOR THAT IS SUPPLIED BY ADB.

**GENERAL NOTES:**

1. FULLY ASSEMBLED WEIGHTS:
  - A. INCOMING POWER BAY = 820 LBS
  - B. POWERPACK BAY (W/OUT POWERPACKS INSTALLED) = 1230 LBS
  - C. POWERPACKS: 7.5KW = 600 LBS  
 10KW = 826 LBS  
 15KW = 906 LBS  
 20KW = 1097 LBS  
 30KW = 1302 LBS
2. CONDUIT PENETRATIONS VARY FROM SITE TO SITE AND ARE TO BE COORDINATED BY THE INSTALLING CONTRACTOR. ADB SAFEGATE RECOMMENDS THAT THE INSTALLING CONTRACTOR USE LOCAL CODES AND COORDINATE WITH AIRPORT TO DETERMINE HOW TO RUN MAIN POWER, COMMUNICATIONS, AND UPS LINES TO THE SGRS. ENTRY AND EXIT CONDUITS HAVE BEEN BROUGHT IN FROM UNDER THE SGRS (THROUGH FLOOR), THROUGH THE SIDE AND ALSO THROUGH THE TOP OF THE ENCLOSURE(S).
3. POWERPACKS AND CABINETS ARE WIRED FOR 5 STEP - JUMPER SETTINGS AND CONFIGURATION DETERMINES CONTROL METHODOLOGY. ALL POWERPACKS ARE CAPABLE OF BEING 3 OR 5 STEP.



ACE3 DOOR MOUNT ASSEMBLY - DC  
QTY (10) FOR THIS APPLICATION



**IMPORTANT NOTE:**  
OPTIONAL HOUSEKEEPING PAD NOT TO EXCEED 4" (INCHES) IN HEIGHT. FRONT OF SGRS UNIT MUST BE FLUSH WITH FRONT OF HOUSEKEEPING PAD

FRONT OF CABINET TO BE FLUSH WITH FRONT EDGE OF HOUSE KEEPING PAD

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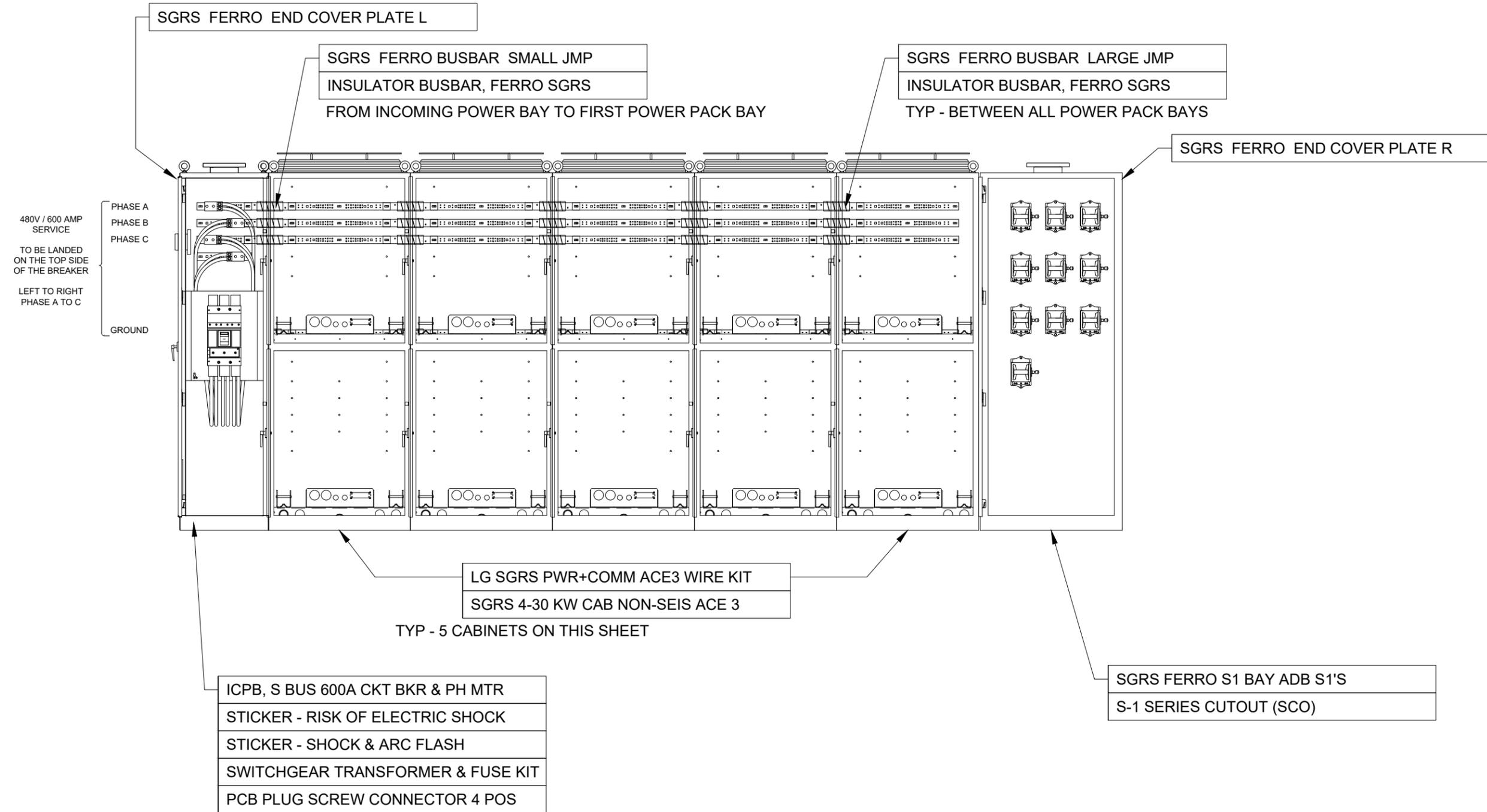


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**DRAWING INFORMATION:**  
FERRO SWITCHGEAR REGULATOR SYSTEM  
AIRPORT / CONTRACTOR INSTALLATION  
DETAILS & NOTES

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3/8-16 X 1 HX HD



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DRAWING INFORMATION:  
FERRO SWITCHGEAR REGULATOR SYSTEM  
SWITCHGEAR LINEUP ASSEMBLY

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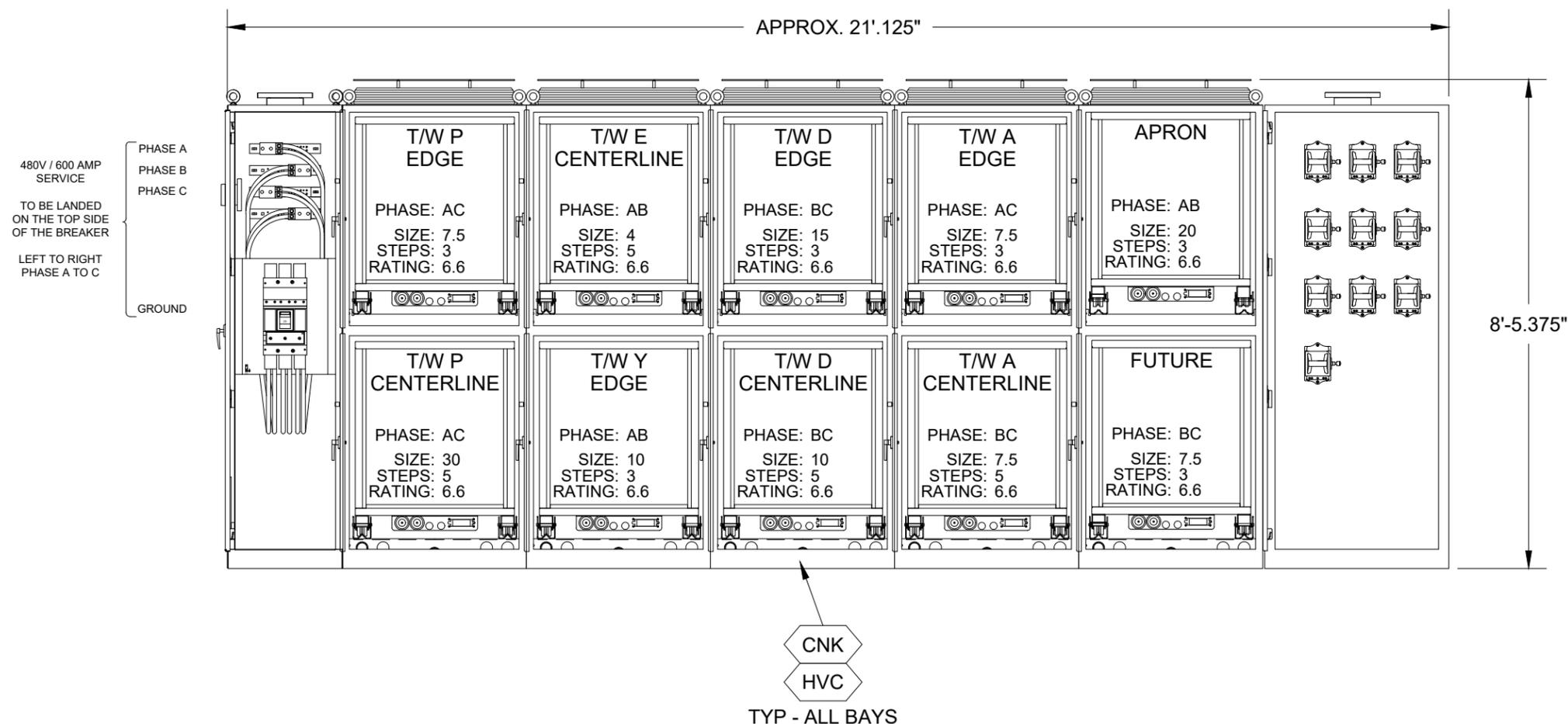
**POWERPACKS INCLUDED WITH THIS LINE-UP:**

6.6A, 30KW, 5S, 480V, L-829/IRMS/ICVM
6.6A, 20KW, 3S, 480V, L-829/IRMS/ICVM
6.6A, 15KW, 3S, 480V, L-829/IRMS/ICVM
6.6A, 10KW, 5S, 480V, L-829/IRMS/ICVM
6.6A, 10KW, 3S, 480V, L-829/IRMS/ICVM
6.6A, 7.5KW, 5S, 480V, L-829/IRMS/ICVM
6.6A, 7.5KW, 3S, 480V, L-829/IRMS/ICVM
6.6A, 4KW, 5S, 480V, L-829/IRMS/ICVM
SGRS PPK 7.5KW 480V 3S 6.6 ACE/IRMS

SEE BELOW FOR EXACT LOCATIONS

**NOTES:**

1. THE CCR NAMED "FUTURE" WILL NOT BE CONFIGURED IN THE SYSTEM FOR THIS PROJECT AS THERE IS NO POWER PACK SUPPLIED.
2. THE TYPE OF POWER PACK WAS SPECIFIED BY THE CONTRACTOR. IF THE AIRPORT SPECS A DIFFERENT POWER PACK, THEN ADB SAFEGATE WILL NEED TO RE-BALANCE THE SWITCHGEAR LOAD.

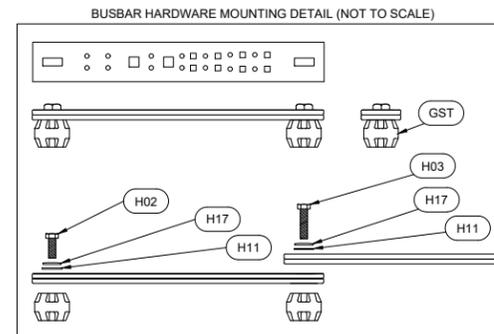
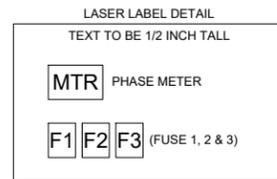
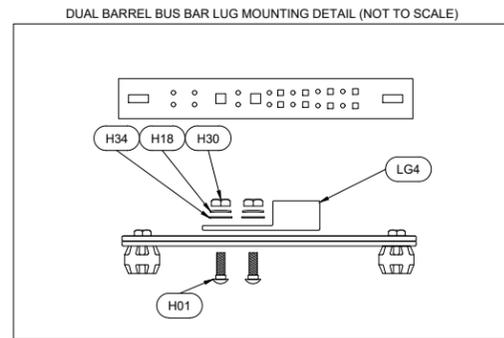


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**DRAWING INFORMATION:**  
FERRO SWITCHGEAR REGULATOR SYSTEM  
SWITCHGEAR LINEUP ASSEMBLY  
POWERPACK LAYOUT & BUS PHASING

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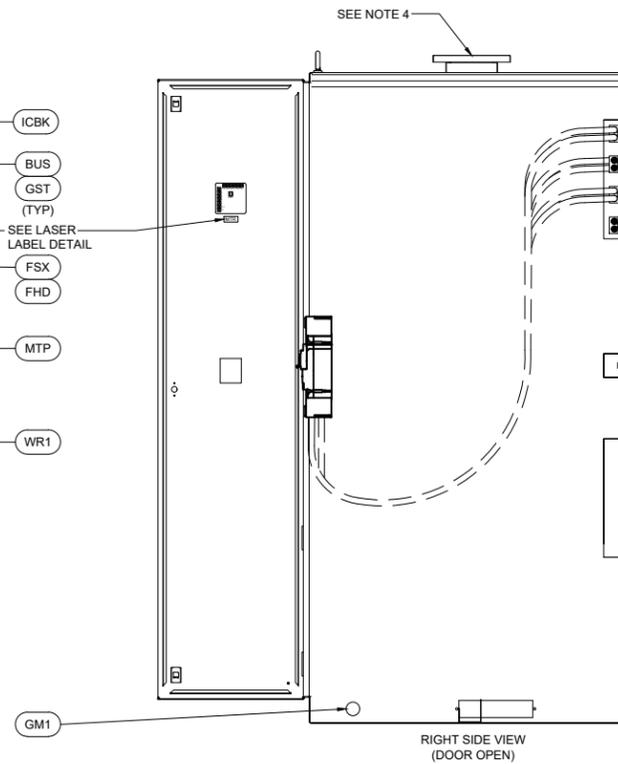
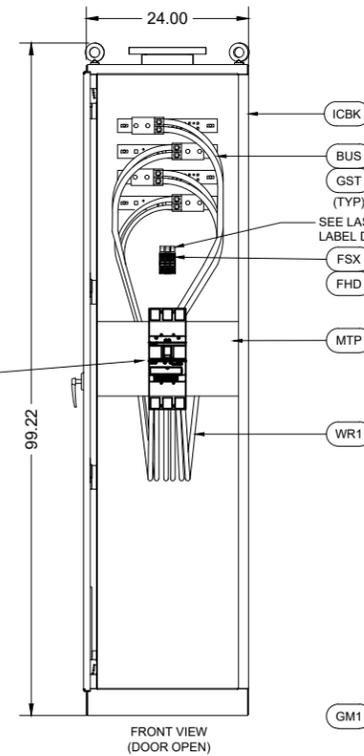
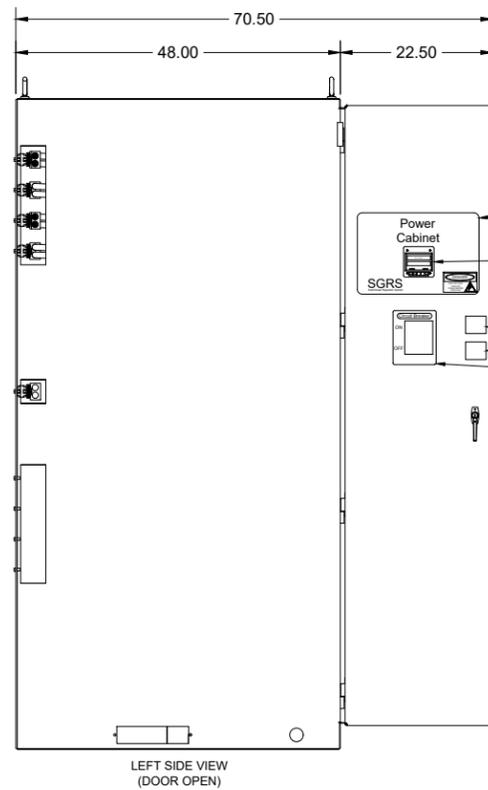
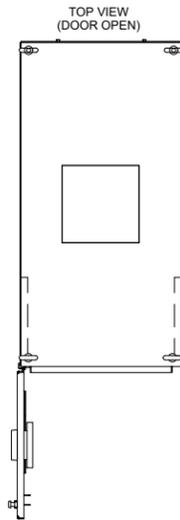


TORQUE SPECIFICATIONS FOR BUS BAR

SIZE	TORQUE VALUE	
	IN. - LB	FT. - LB
1/4 - 20	105	8.75
1/2 - 13	480	40
3/8 - 16	240	20

TORQUE SPECIFICATIONS FOR BUS BAR

SCREW TYPE	TORQUE VALUE	
	IN. - LB	FT. - LB
350 / 500 MCM CONNECTOR 800A CIRCUIT BREAKER	324	27
LARGE PANDUIT LUG	49.92	4.16
SMALL ILSCO LUG	45	3.75



BILL OF MATERIALS

ITEM #	DESCRIPTION	U/M	QTY	DWG REF
CTX	600-5 CURRENT TRANSFORMER W/O BASE	EA	3	
LBD	LABEL DANGER HIGH VOLTAGE	EA	1	
OPB	SGRS POWER CABINET OVERLAY	EA	1	
LB2	SGRS ICP 600-800 AMP CKT BREAKER OVERLAY	EA	1	
FSX	FUSE 1/4A 600V	EA	3	
FHD	FUSEHOLDER	EA	1	
THS	TEMPERATURE CONTROL, NORMALLY OPEN	EA	1	
MTR	POWER METER 20V-1000kV 5mA-50000A	EA	1	
PAG	PAGODA EXHAUST VENT, FAN & DRIP GUARD	EA	1	
ICBK	SGRS ICPB - ATTACH DOOR TO CABINET 7	EA	1	
CBR	CKT BKR, CLASS C, 100KAIC@480V, 600A	EA	1	
BUS	SGRS FERRO BUSBAR POWER CAB	EA	10	
MTP	FERRO ICP BREAKER MOUNTING PLATE	EA	1	
GST	GLASTIC STANDOFF INSULATOR 600V	EA	10	
GM1	INSULATION GROMMET 2" GROOVE DIA.	EA	1	
H02	3/8-16 X 1 HX HD	EA	9	
H03	3/8-16 X 1 1/2 HX HD	EA	9	
H01	1/2 X 13 X 1-1/2 CARRIAGE BOLT SS	EA	10	
H30	1/2-13 HX NUT	EA	10	
H11	3/8 FLATWASHER	EA	10	
H34	1/2 FLATWASHER	EA	10	
H17	BELLEVILLE WASHER 3/8"	EA	10	
H18	BELLEVILLE WASHER 1/2"	EA	10	
H20	TERM RING 12-10AWG 1/4 INSUL	EA	2	
H24	MALE DISC 16-14AWG .25X.03 INS	EA	2	
H25	FEM DISC 16-14AWG .25X.03 INS	EA	2	
LG4	DUAL BARREL TWO HOLE BUSBAR LUG	EA	5	
STR	SGRS SHIPPING STRAPS (SEE NOTES)	EA	1	
WR1	WIRE 350MCM THHN STRANDED COPPER	FT	53	

NOTES:

- REFER TO DRAWING #43A2884 FOR WIRING OF CURRENT TRANSFORMER AND PHASE METER.
- CIRCUIT BREAKER TYPE - 3 POLE, 600VAC, 600 AMP, 50/60HZ.
- PLACE OVERLAY ON DOOR AND CUT HOLE FOR PHASE METER.
- SEE ONE LINE DIAGRAM FOR PAGODA TOP WIRING.
- FULLY ASSEMBLED WEIGHT = 820 LBS.
- CONDUIT ENTRIES VARY FROM SITE TO SITE. ADB SAFEGATE RECOMMENDS THAT THE INSTALLING CONTRACTOR USE THEIR BEST JUDGEMENT IN DETERMINING HOW TO RUN MAIN POWER, COMMUNICATIONS, & UPS LINES TO THE SGRS. ENTRY & EXIT CONDUITS HAVE BEEN BROUGHT IN FROM UNDER THE SGRS (THROUGH FLOOR), THROUGH THE SIDE AND ALSO THROUGH THE TOP OF THE ENCLOSURE.



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DRAWING INFORMATION:  
FERRO SWITCHGEAR REGULATOR SYSTEM  
INCOMING POWER BAY ASSEMBLY

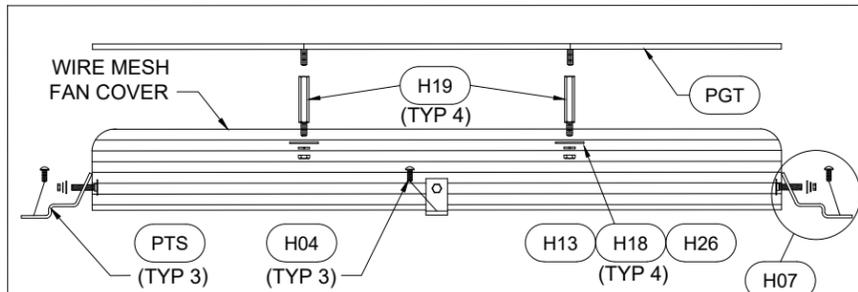
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SGRS-4

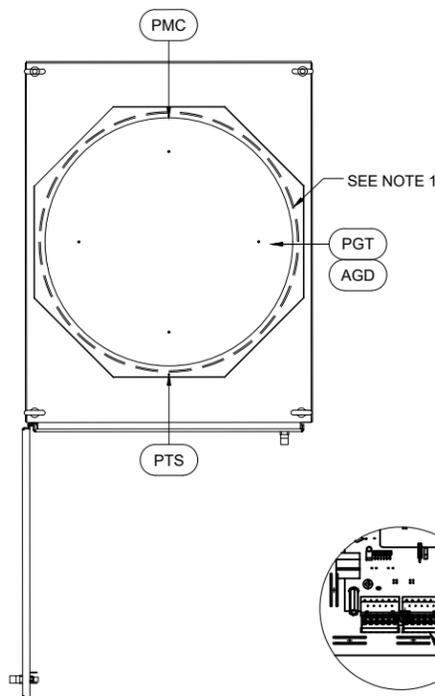
DETAIL "A"



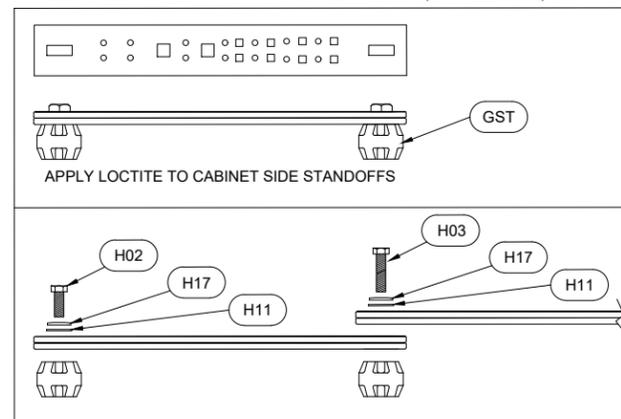
ASSEMBLY HARDWARE		
ITEM	DESCRIPTION	QTY.
H19	1/2" X 2" HEX STANDOFF	4
H18	1/4" I.D. X 1 - 1/4" O.D. FENDER WASHER	4
H36	1/4-20 INTERNAL LOCKWASHER	3
H13	1/4 SPLIT LOCKWASHER	4
H09	1/4" FLATWASHER	3
H26	1/4"-20 HEX HD NUT	4
H20	1/4" - 20 HEX NUT NYLON	3
H04	10-32 X 3/8 PAN HD PHIL	4
H07	1/4-20 X 1 ELEVATOR BOLT CADPL	3
PTS	PAGODA TOP SECURING	4
PMC	PAGODA MOUNTING CHANNEL	1
PGT	SGRS FERRO PAGODA TOP	1

NOTES:

1. APPLY A BEAD OF RTV TO TOP OF CABINET BEFORE SEATING WIRE MESH FAN COVER.



BUSBAR HARDWARE MOUNTING DETAIL (NOT TO SCALE)



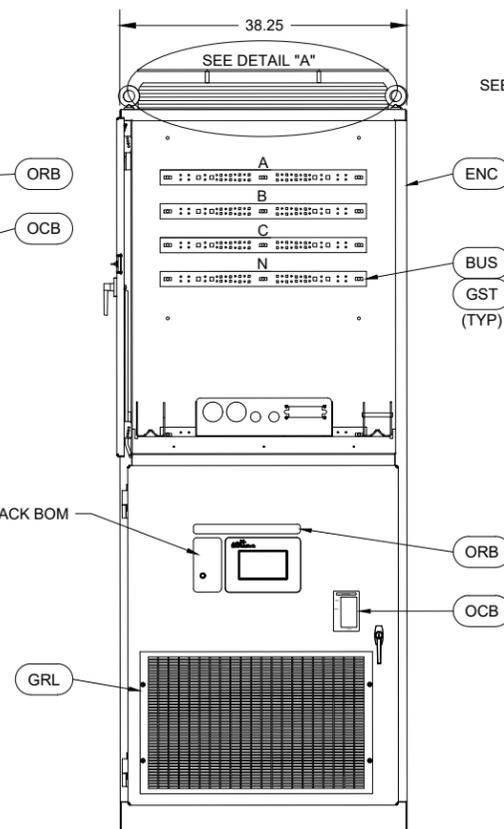
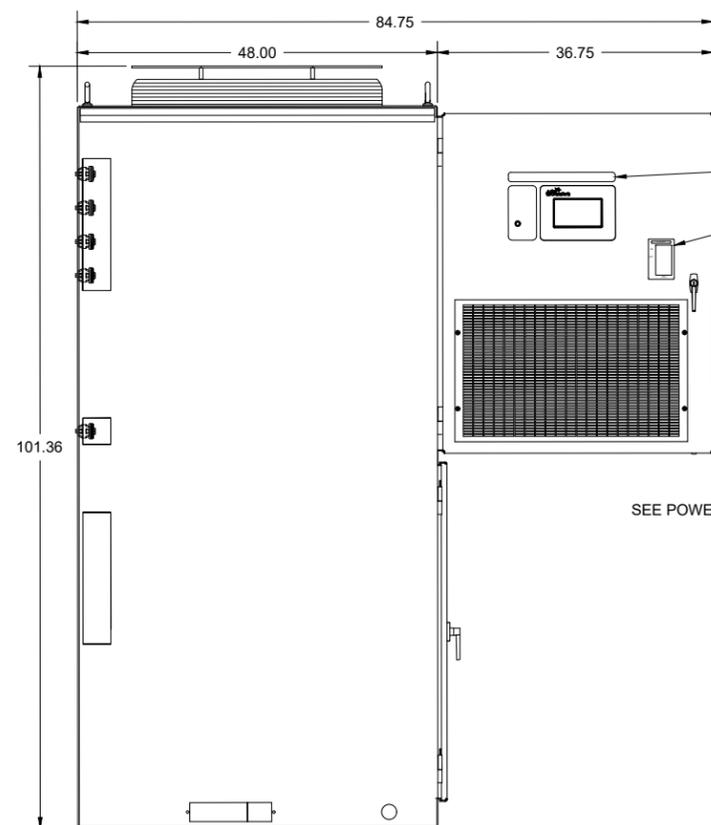
TORQUE SPEC'S FOR BUS BAR	
CONNECTOR TYPE	TORQUE VALUE
350 MCM CONNECTOR	27 FT. - LB
LARGE PANDUIT LUG	4.16 FT. - LB
SMALL ILSCO LUG	3.75 FT. - LB

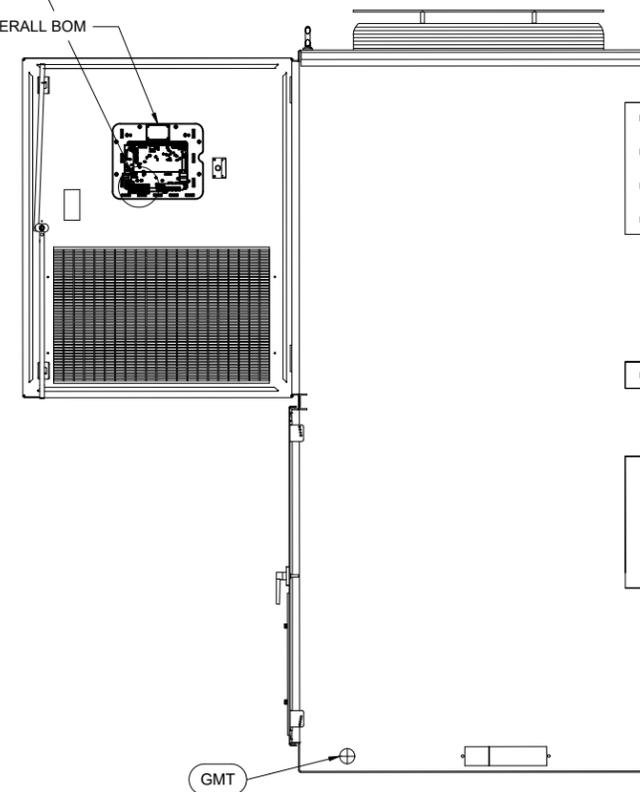
HARDWARE SIZE	TORQUE VALUE
1/4 - 20	8.75 FT. - LB
3/8 - 16	20 FT. - LB
1/2 - 13	40 FT. - LB

(B)

BILL OF MATERIALS			
ITEM#	DESCRIPTION	U/M	QTY
ORB	SGRS REGULATOR BAY DOOR OVERLAY	EA	2
OCB	SGRS CIRCUIT BREAKER OVERLAY	EA	2
STA	STAB CONN ASSY(NO FIBER) 4-30KW CABINET	EA	2
STB	CAB HORIZ STAB CONN, FERRO SGRS 4-30KW	EA	2
ACU	WIRE ASSEM KIT, LG SGRS PWR+COMM ACE3	EA	1
STR	4-30KW NON-SEISMIC CAB & STRUCT ASSY ACE 3	EA	1
AGD	GRANGER AIR CIRCULATOR GUARD(FRONT)	EA	1
PGT	SGRS FERRO PAGODA TOP	EA	1
PMC	FERRO SGRS SEISMIC PAGODA MTG CHNL	EA	1
PTS	PAGODA TOP SECURING BRACKET	EA	3
GRL	SGRS FERRO GRILL	EA	2
CBT	TIE HOLDER W/ADHESIVE NYLON	EA	4
GM1	INSULATION GROMMET 2" GROOVE DIA.	EA	1
H01	5/16-18 X 1 HEX HD	EA	8
H07	1/4-20 X 1 ELEVATOR BOLT CADPL	EA	3
H04	10-32 X 3/8 PAN HD PHIL	EA	4
H05	3/8-16 X 1 HX HD GRADE 5 BOLT	EA	24
PWC	1/4-20 X 1&1/4" CARRIAGE HD SS	EA	25
H26	1/4-20 HX NUT	EA	4
H06	5/16-18 HX NUT	EA	8
H09	1/4-20 HEX NUT NYLON	EA	3
H08	3/8-16 HX HD GRADE 5 NUT	EA	24
HDX	1/4 FLATWASHER	EA	54
H10	5/16 FLATWASHER	EA	8
H11	3/8 FLATWASHER	EA	63
H12	#10 SPLIT LOCKWASHER	EA	4
H13	1/4 SPLIT LOCKWASHER	EA	32
H14	5/16 SPLIT LOCKWASHER	EA	8
H15	FLAT WASHER .75OD .2 ID	EA	16
H16	3/8 SPLIT LOCKWASHER GRADE 5	EA	24
H36	1/4 INT LOCKWASHER	EA	3
H20	BELLEVILLE WASHER 1/4"	EA	19
H21	WASHER FENDER 1/4ID X 1 1/4OD	EA	6
H19	STANDOFF HEX 1/2" X 2"	EA	4
LG1	TERM RING 12-10AWG 1/4 NOINSUL	EA	16
STR	SGRS SHIPPING STRAPS (SEE NOTES)	EA	1
W10	RIBBON CABLE ASSY, 34-POS W/CONNS,36"	EA	2
WBB	BUSBAR WIRE LEAD KIT**SEE DA-TECH**	EA	1
WSB	STAB WIRE LEAD KIT**DO NOT ORDER**	EA	1
WLB	WIRE LEAD KIT, SGRS TX & BUS BAR WIRES	EA	1
RM4	GASKET EXTRUDED U SHAPE	FT	8



SEE OVERALL BOM



SEE POWERPACK BOM

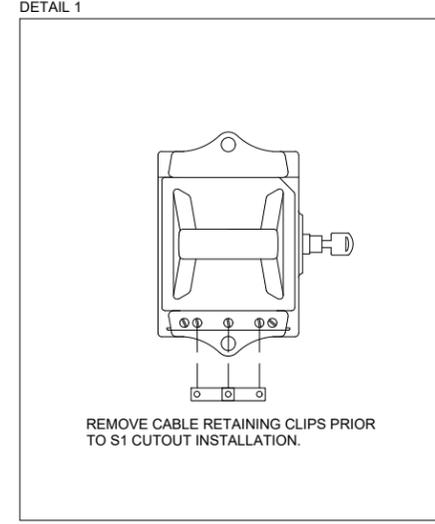
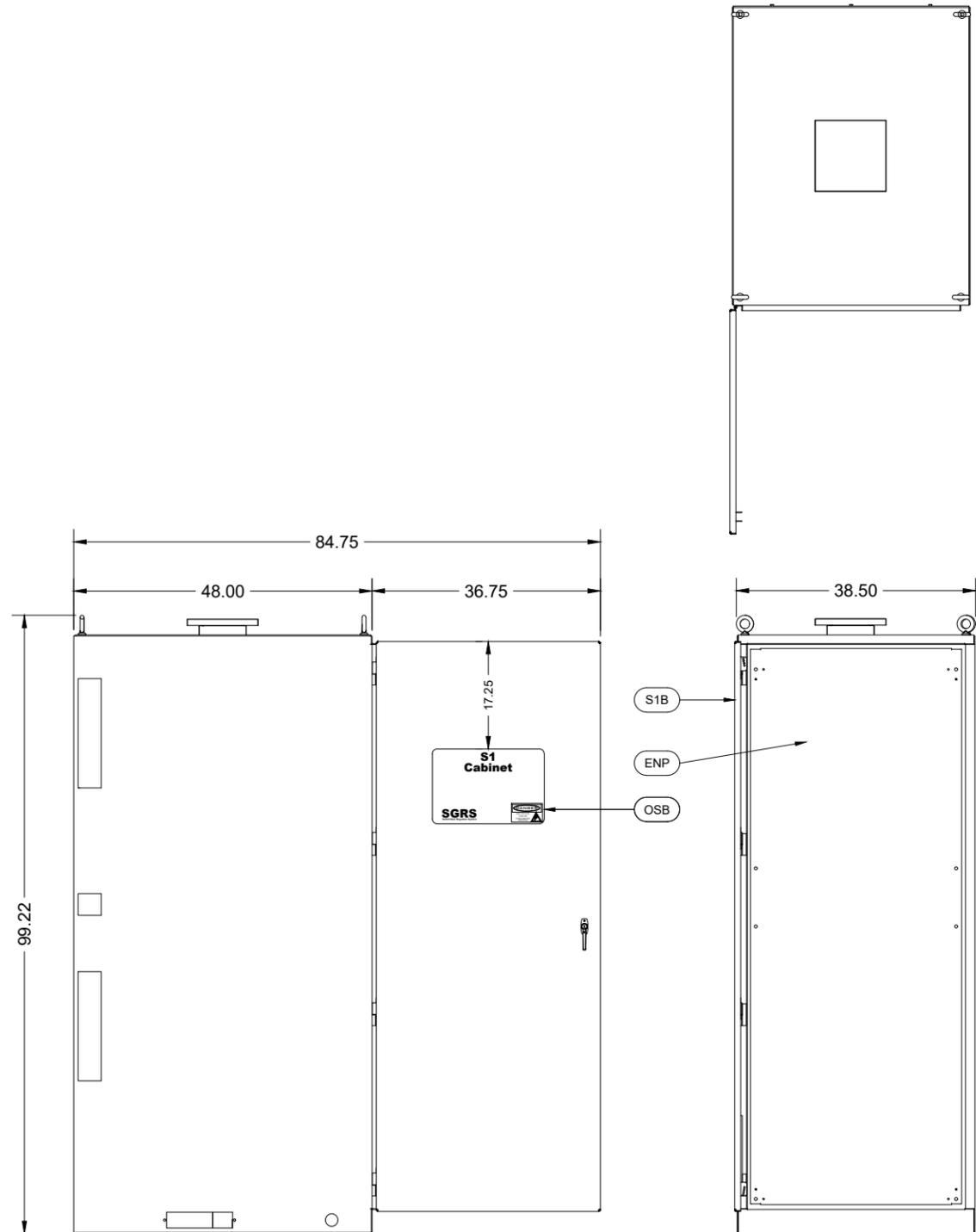


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DRAWING INFORMATION:  
FERRO SWITCHGEAR REGULATOR SYSTEM  
POWERPACK BAY ASSEMBLY

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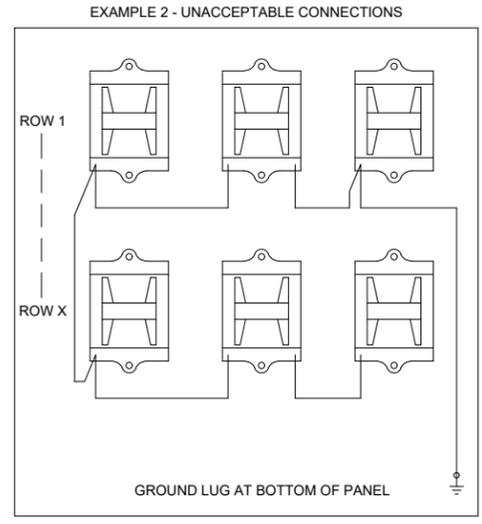
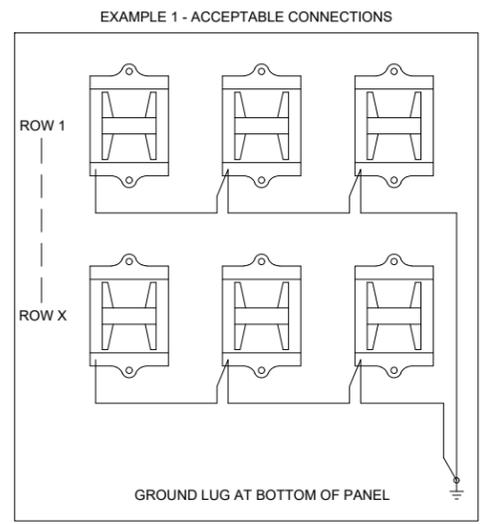
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BILL OF MATERIALS				
ITEM #	DESCRIPTION	U/M	QTY	DWG REF
OSB	SGRS S1 CABINET OVERLAY	EA	1	
GWA	GND WIRE ASSY, 12" LG, FOR SGRS DOOR	EA	1	
THS	TEMPERATURE CONTROL, NORMALLY OPEN	EA	1	
PAG	PAGODA EXHAUST VENT, FAN & DRIP GUARD	EA	1	
S1B	SGRS FERRO S1 BAY SEISMIC	EA	1	
ENP	SGRS FERRO CABINET PANEL ADB S1'S	EA	1	
CMM	CABLE TIE MOUNT METAL	EA	24	
CBT	TIE HOLDER W/ADHESIVE NYLON	EA	3	
H20	TERM RING 12-10AWG 1/4 INSUL	EA	4	
H21	TERM RING 12-10AWG #10 INSUL	EA	30	
H22	TERM RING 6AWG 3/8 NOINSUL	EA	1	
H23	TERM RING 12-10AWG 3/8 NOINSUL	EA	6	
H24	MALE DISC 16-14AWG .25X.03 INS	EA	2	
H25	FEM DISC 16-14AWG .25X.03 INS	EA	2	
STR	SGRS SHIPPING STRAPS (SEE NOTES)	EA	1	
W04	6AWG UL1283 133/27 GRN/YL TRCR	FT	30	
WGD	WIRE, GND, 6AWG BARE, STRANDED, SOFT	FT	30	

**NOTE:**

- FULLY ASSEMBLED WEIGHT = 1180 LBS.
- S1 GROUNDS TO BE RUN IN GROUPS OF 3 AS SHOWN. EACH ROW OF S1's MUST HAVE A DEDICATED GROUND WIRE TO GROUND LUG. GROUND CONNECTION TO S1 MUST BE MADE ON SAME TERMINAL POINT. IT IS NOT ACCEPTABLE FOR GROUND WIRE TO SPLIT BETWEEN 2 TERMINALS (SEE EXAMPLE 1 AND 2)



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**DRAWING INFORMATION:**  
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 S1 CUTOUT BAY ASSEMBLY

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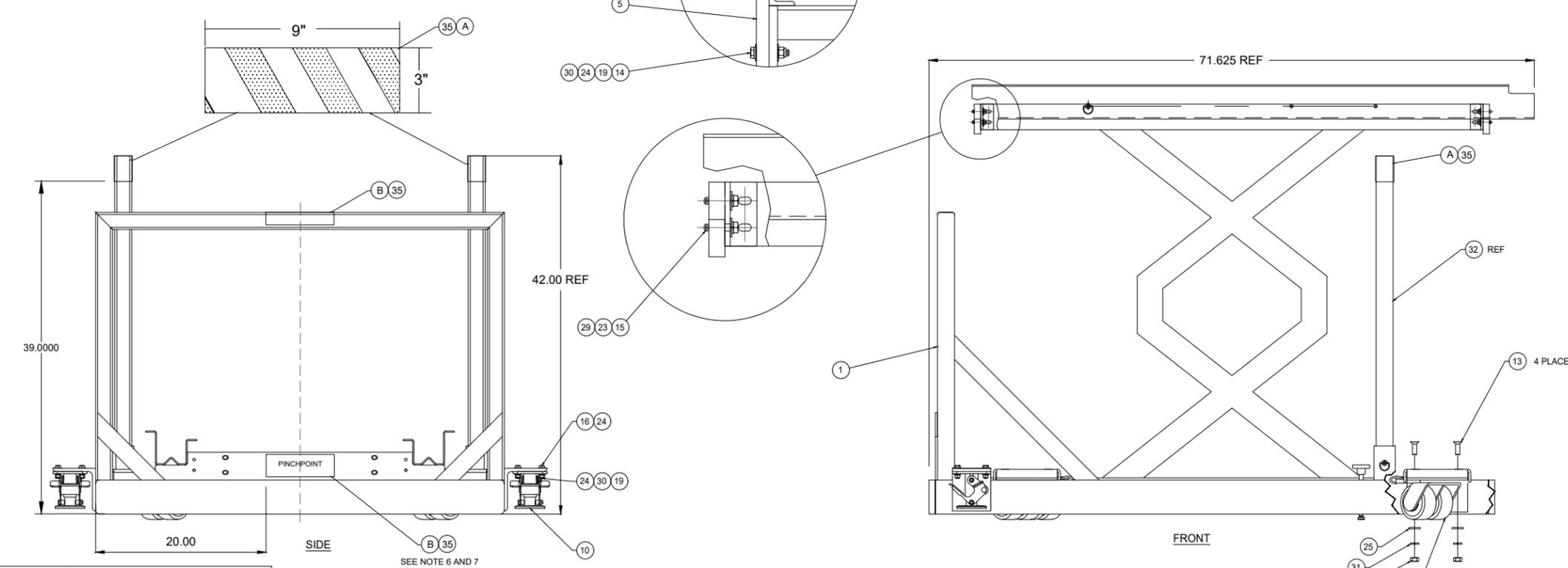
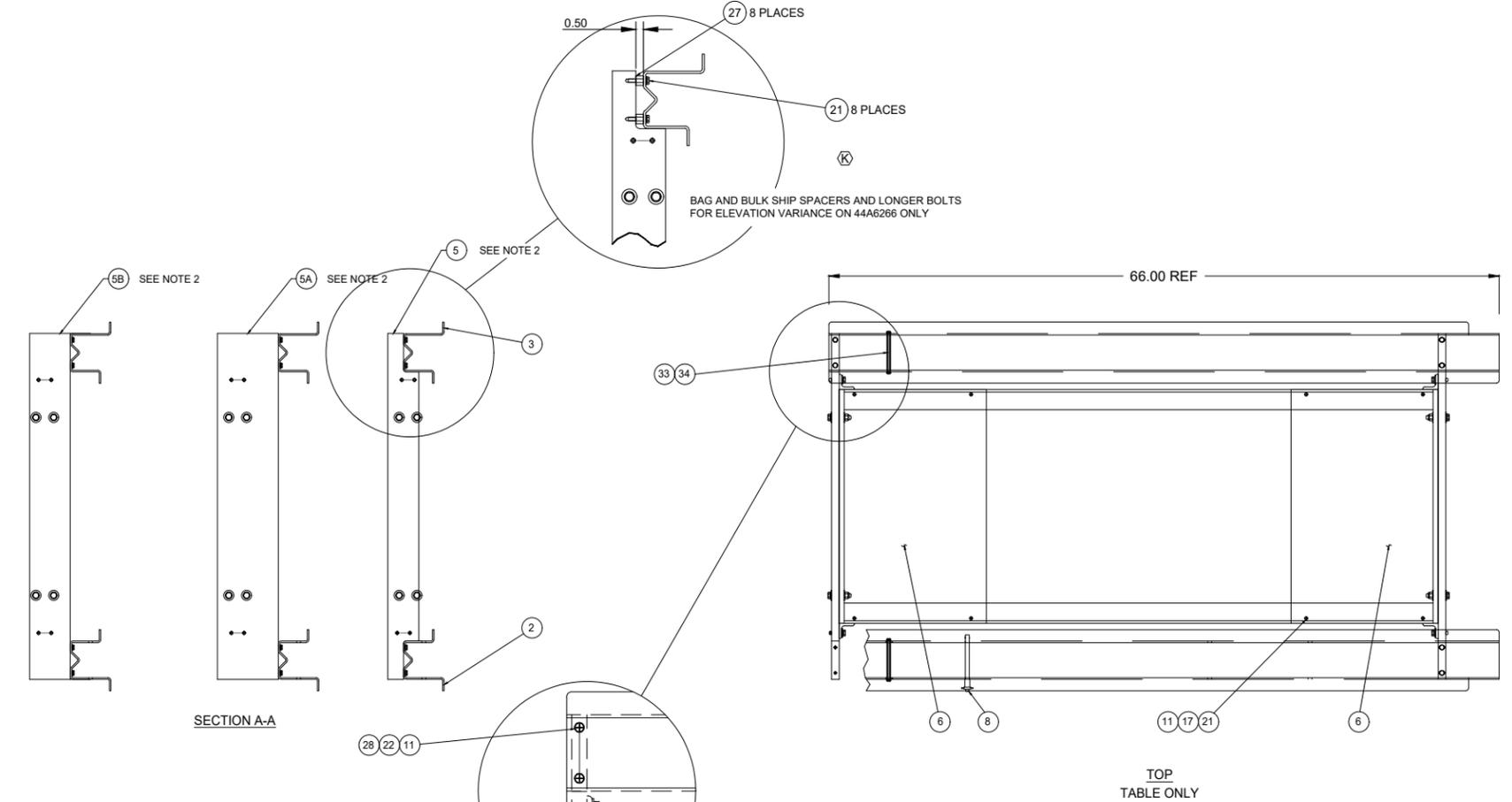
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**SGRS-6**

GENERAL ASSEMBLY BILL OF MATERIAL

ITEM #	PART DESCRIPTION	UNITS	QTY
1	LIFT TABLE WITH CASTERS WELDMENT ASSY.	EA	1
2	RIGHT RAIL LIFT TABLE	EA	1
3	LEFT RAIL LIFT TABLE	EA	1
4	----	EA	-
5	RAIL SUPPORT LIFT FERRO SGRS (0-1.5" HOUSEKEEP PAD)	EA	2
5A	RAIL SUPPORT LIFT FERRO SGRS(3.8-5.3 HOUSEKEEP PAD)	EA	2
5B	RAIL SUPPORT LIFT FERRO SGRS(2.3-3.8" HOUSEKEEP PAD)	EA	2
6	SGRS FERRO LIFT TABLE COVER	EA	2
7	BALL LOCK PIN 3/8 X 2.50"	EA	2
8	BALL LOCK PIN 3/8 X 4"	EA	1
9	CASTER 1500# CAP, 4 POS LOCK, NO BRAKE	EA	4
10	FLOOR LOCK, 4"	EA	2
11	1/4-20 X 5/8 HX HD	EA	8
12	8-32 X 1/2 PAN HD PHIL	EA	8
13	1/2-13 FLAT HEAD CAP SCREW, 82DG, ST STL	EA	16
14	HEX BOLT 3/8-16 X 2 GRD 8	EA	8
15	HEX BOLT 5/16-24X1 1/4 GRADE 8	EA	8
16	3/8-16 X 1&1/2 HX HD	EA	8
17	1/2-13 HX NUT	EA	16
18	HEX NUT 5/16-24 NYLON LCK GRD8	EA	8
19	HEX NUT 3/8-16 NYLON LOCK GRD8	EA	16
20	#8 FLATWASHER	EA	8
21	1/4-20 X 1 HX HD	EA	8
22	1/4 FLATWASHER	EA	8
23	5/16 FLATWASHER	EA	8
24	3/8 FLATWASHER	EA	32
25	1/2 FLATWASHER	EA	16
26	#8 SPLIT LOCKWASHER	EA	8
27	ZINC PLTD STEELSPACER Ø5/8", 252ID, 1/2LG	EA	--
28	1/4 SPLIT LOCKWASHER	EA	8
29	5/16 SPLIT LOCKWASHER	EA	8
30	3/8 SPLIT LOCKWASHER	EA	16
31	1/2 SPLIT LOCKWASHER	EA	16
32	SGRS LIFT W/CASTERS HANDRAIL DETACHABLE	EA	REF
33	STOP PIN	EA	2
34	SNAP RING	EA	4
35	3M 471 TAPE, BLACK AND YELLOW	IN	34
36	3M 471 TAPE, YELLOW	IN	16

SEE NOTE 2 - (M)  
 SEE NOTE 2 - (M)  
 SEE NOTE 2 - (M)



XXXXXXX /X  
 (NO DASH) = 0" to 1.5" THICK HOUSEKEEPING PAD  
 3 = 2.3" to 3.8" THICK HOUSEKEEPING PAD  
 4 = 3.8" to 5.3" THICK HOUSEKEEPING PAD



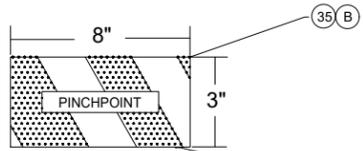
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DRAWING INFORMATION:  
 FERRO SWITCHGEAR REGULATOR SYSTEM  
 LARGE FRAME POWERPACK LIFT

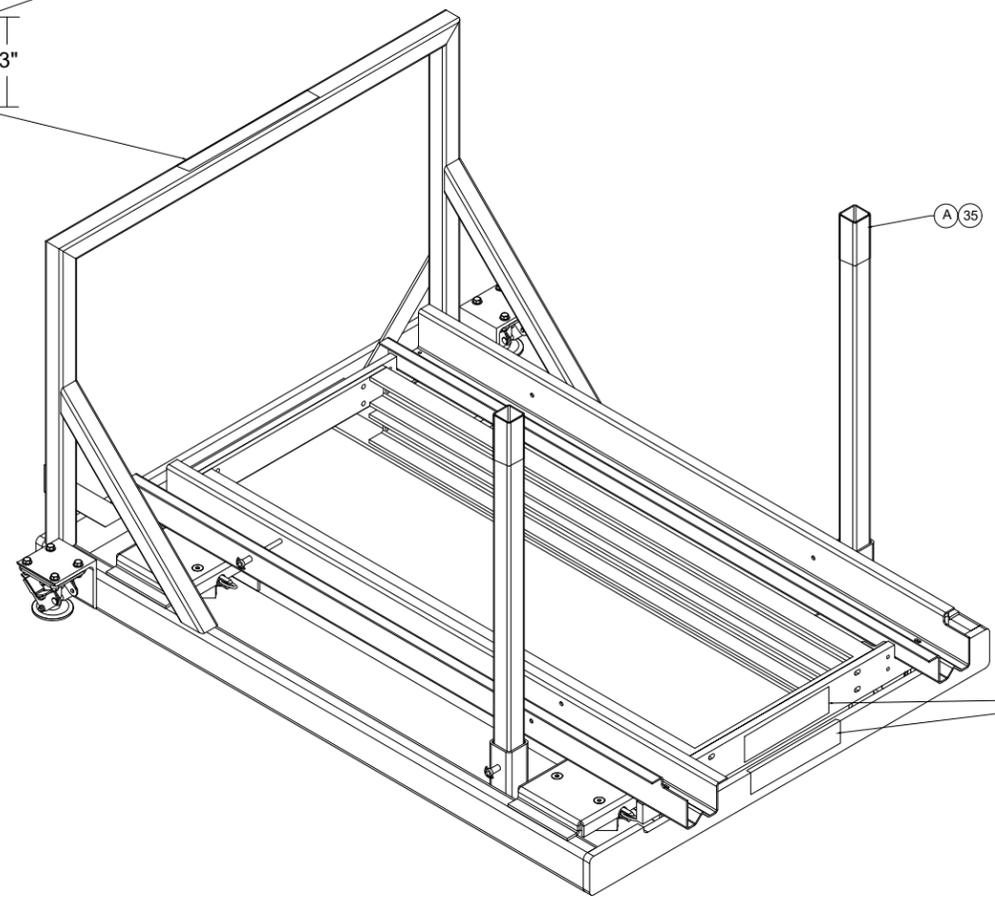
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	DRAWN DATE:	PAGE NUMBER:
		7 OF 9

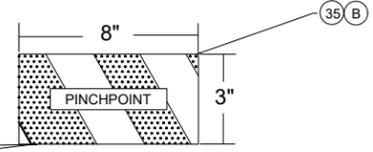
SGRS-7



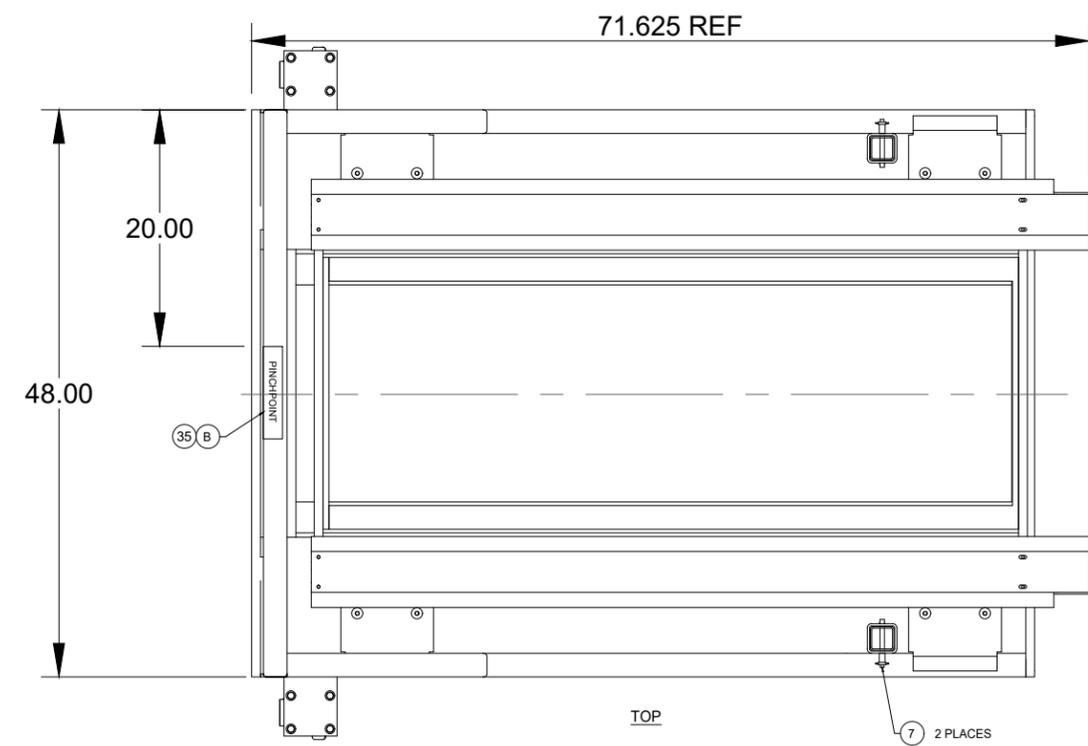
SEE NOTE 6 AND 7



ISOMETRIC VIEW



SEE NOTE 6 AND 7



XXXXXXXX /X  
 (NO DASH) = 0" to 1.5" THICK HOUSEKEEPING PAD  
 3 = 2.3" to 3.8" THICK HOUSEKEEPING PAD  
 4 = 3.8" to 5.3" THICK HOUSEKEEPING PAD

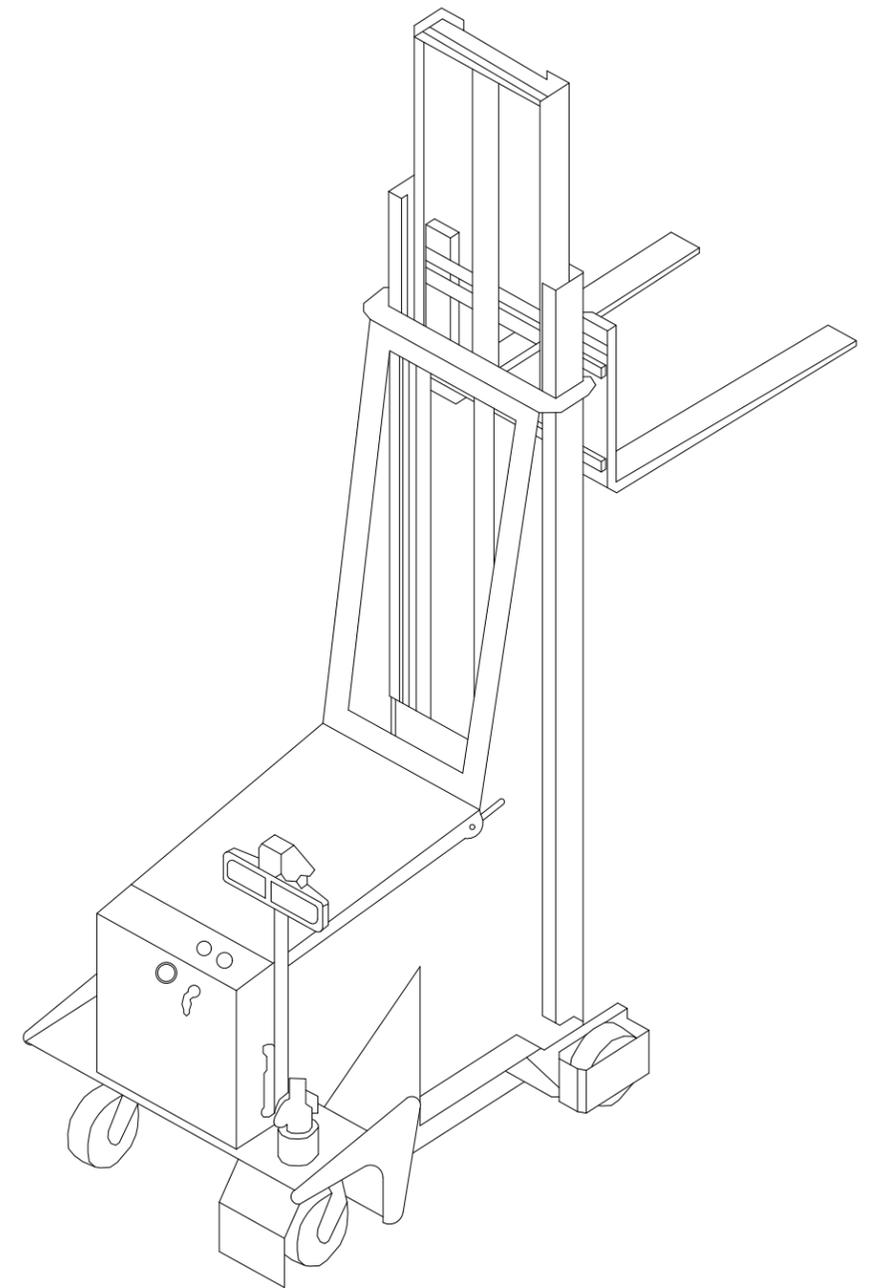
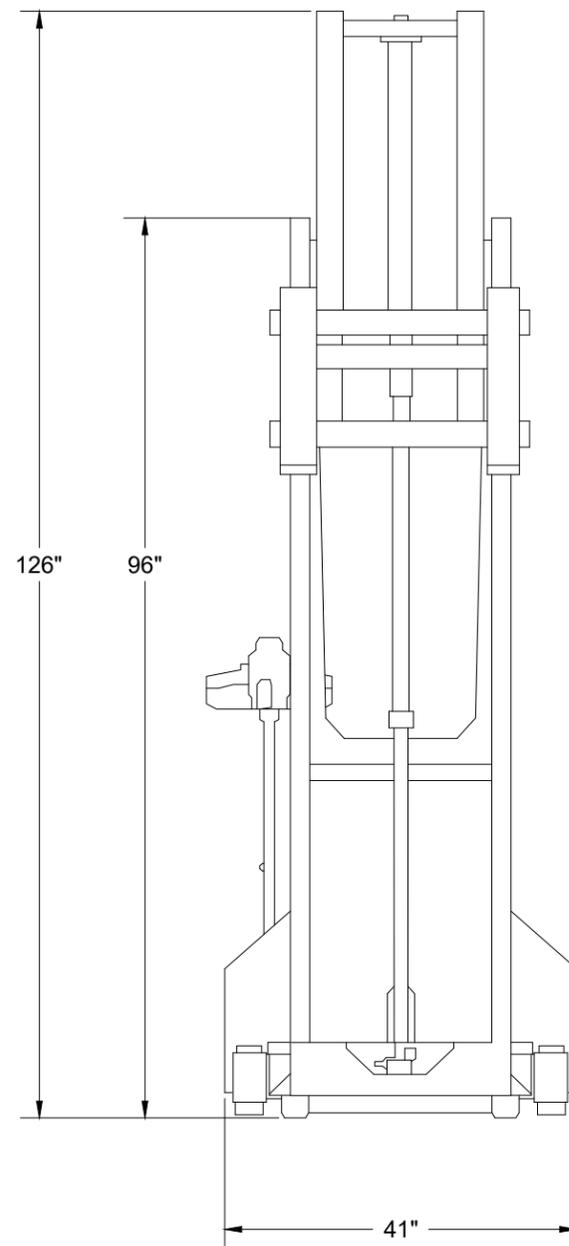
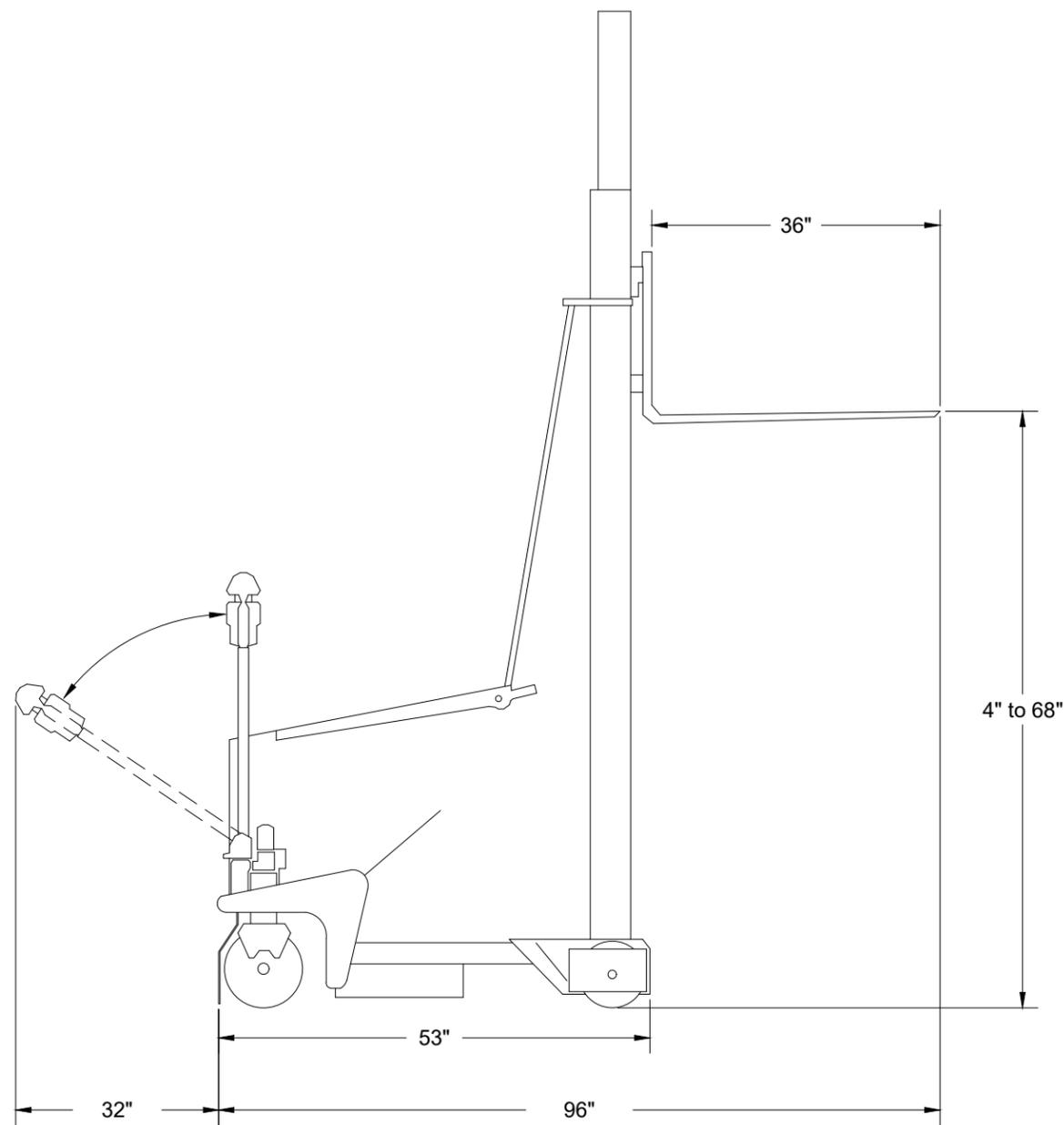
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**DRAWING INFORMATION:**  
 FERRO SWITCHGEAR REGULATOR SYSTEM  
 LARGE FRAME POWERPACK LIFT

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NOTE: CLEARANCE FOR LIFT WITH HANDLE IN THE DOWN POSITION IS APPROX 10FT 8IN (WITHOUT PERSON DRIVING)



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DRAWING INFORMATION:  
 FERRO SWITCHGEAR REGULATOR SYSTEM  
 FORKLIFT STYLE POWERPACK LIFT  
 BATTERY POWERED, MOTORIZED WHEEL

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