

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
- △ 4. ONLY FRONT ACCESS REQUIRED FOR SERVICE. MINIMUM RECOMMENDED FRONT CLEARANCE IS 36.0 [914].
5. CABLE ENTRY IS FROM TOP OR BOTTOM OF THE UNIT.
- △ 6. FOR CENTER OF GRAVITY AND WEIGHT DETAILS REFER TO TABLE-1. THIS INFORMATION PROVIDES APPROXIMATE CENTER OF GRAVITY CALCULATION.
7. OPERATING TEMPERATURE: 32°F TO 104°F [0°C TO 40°C]. RECOMMENDED TEMPERATURE AT 77°F [25°C].
8. LEFT AND RIGHT DOORS OPEN 110°.
9. COLOR: RAL 9003, GLOSS LEVEL 85%.
- △ 10. ALL CABINETS SHIPPED WITH SIDE PANELS.
11. FOR ADJACENT BATTERY CABINET, INSTALL ON THE LEFT SIDE OF THE UPS CABINET. REMOVABLE COVER PLATE USED FOR ADJACENT CABLE CONNECTIONS TO UPS CABINET.

△ 6 TABLE-1

Seismic Unit - CENTER OF GRAVITY AND WEIGHT DETAILS				
SKU	Center of Gravity in Inches [mm]			Weight lbs [kg]
	X-Distance	Y-Distance	Z-Distance	
GVSCBT4ST	16.9 [429]	29.1 [739]	16.4 [417]	3029 [1377]
GVSCBT5ST	17.4 [442]	29.2 [742]	16.7 [424]	3468 [1576]

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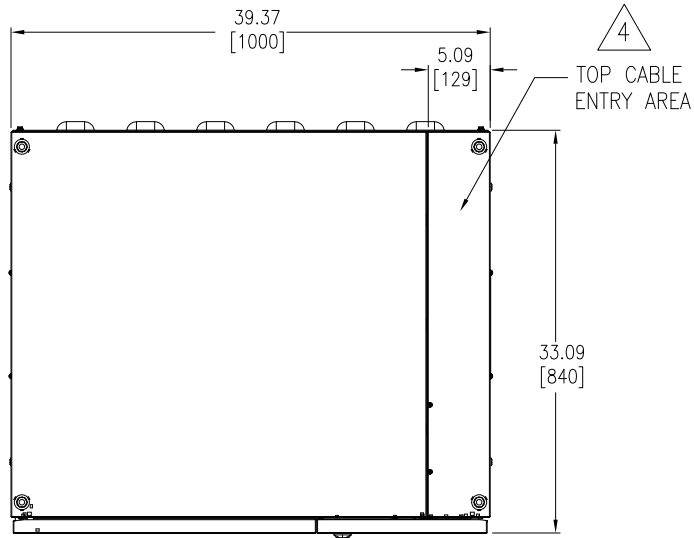


TITLE: GALAXY VS BATTERY CABINET UL TYPE-4&5, SEISMIC UNIT
 Input: 480Vdc, 3PH, 60Hz
 Output: 480Vdc, 3PH, 60Hz
 GENERAL ARRANGEMENT

DWG NO: GVSCBT4ST-5ST REV. 1

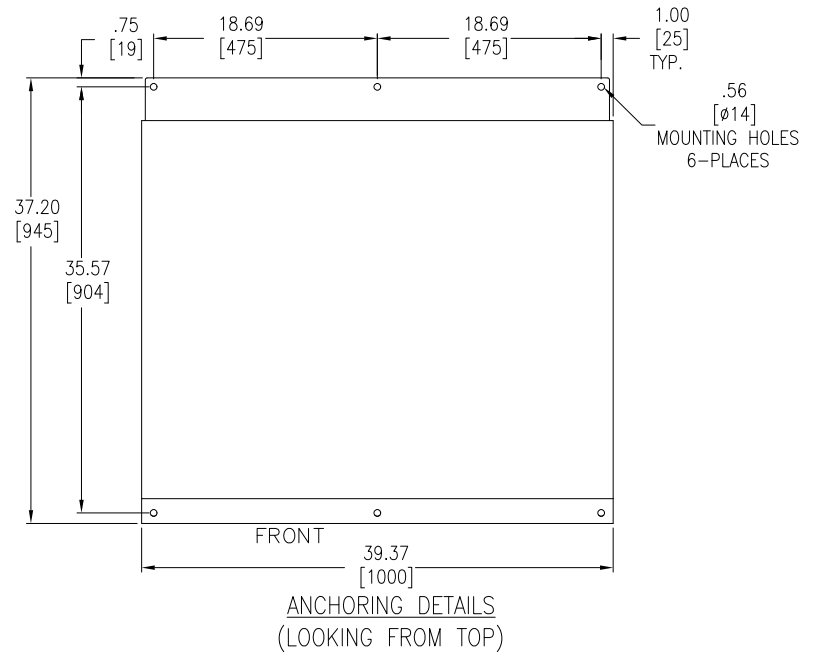
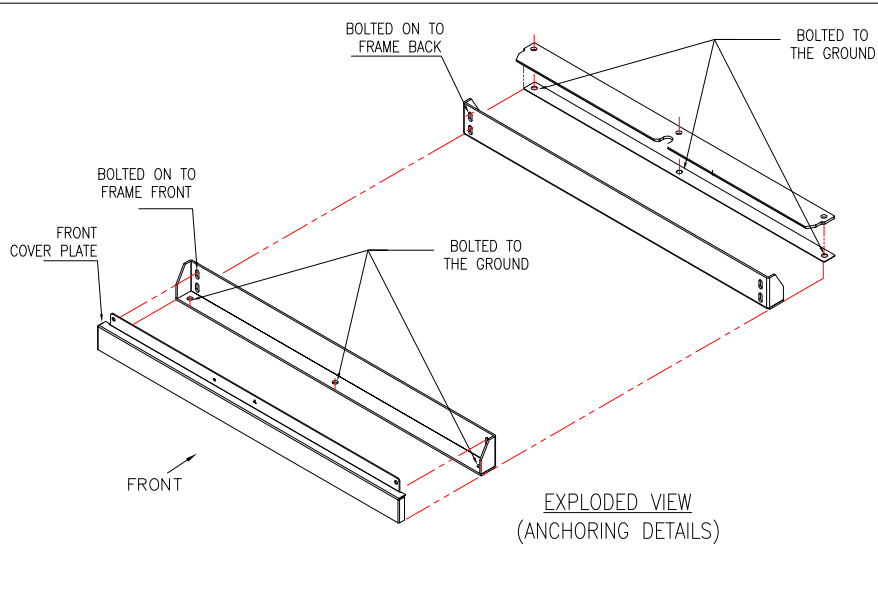
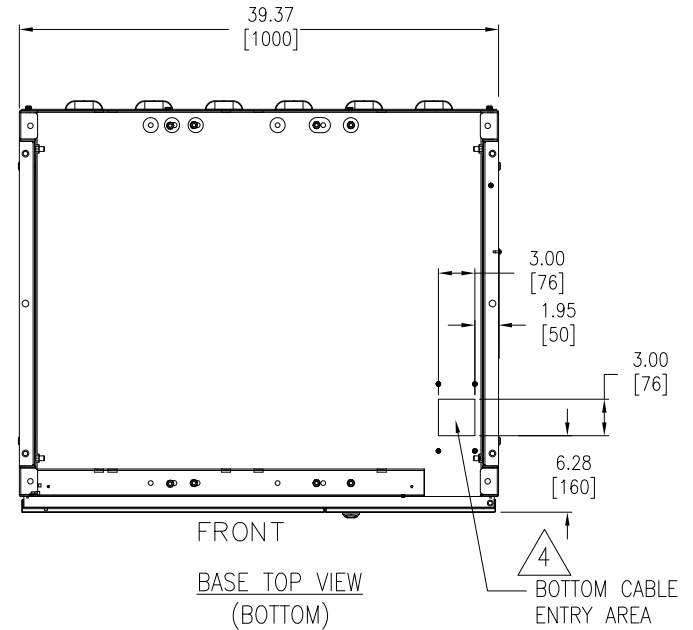
DRAWN BY: JAYAPRAKASH	19-FEB-21	THIRD
ENGINEER: SYED BASHA	26-FEB-21	ANGLE
APPROVED BY: SYED BASHA	26-FEB-21	PROJECTION

TOP ENTRY CONDUIT LOCATION



FRONT
TOP VIEW

BOTTOM ENTRY CONDUIT LOCATION



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3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
- △4. DRILL/PUNCH HOLES IN PLATE AS PER REQUIREMENT.
REMOVE PLATE FROM CABINET BEFORE DRILLING/PUNCHING.

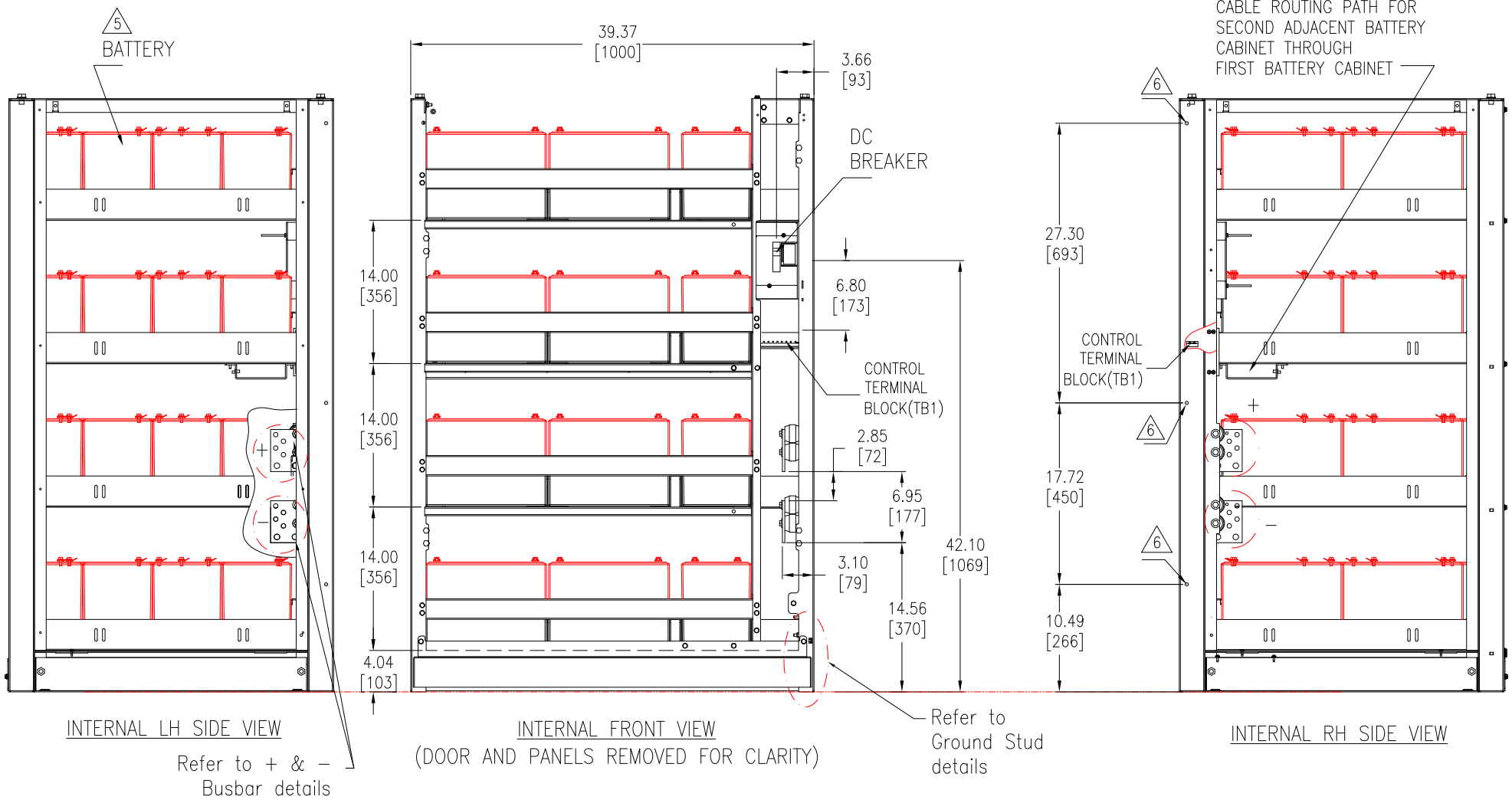
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TITLE: GALAXY VS BATTERY CABINET UL TYPE-4&5, SEISMIC UNIT
Input: 480Vdc, 3PH, 60Hz
Output: 480Vdc, 3PH, 60Hz
TOP & BOTTOM VIEW, ANCHORING DETAILS
PROJECT: DRAWINGS **SHEET 2 OF 7**

DWG NO: GVSCBT4ST-5ST
DRAWN BY: JAYAPRAKASH 19-FEB-21
ENGINEER: SYED BASHA 26-FEB-21
APPROVED BY: SYED BASHA 26-FEB-21

REV. 1
THIRD ANGLE PROJECTION

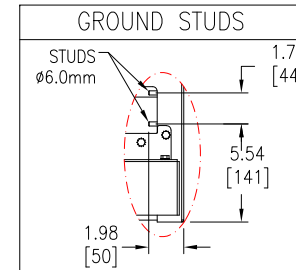
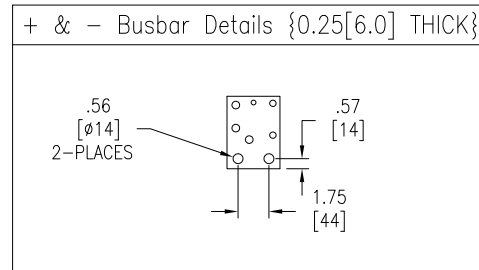


TORQUE SPECIFICATIONS

M6	5.0Nm (3.60lb-ft)
M8	17.5Nm (12.91lb-ft)
M10	30.0Nm (22.0lb-ft)
M12	50.0Nm (36.87lb-ft)

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- REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
- FOR BATTERY INTERFACE DETAILS REFER TO UPS INSTALLATION MANUAL.
- BATTERY ARRANGEMENT SHOWN ABOVE IS TYPICAL.
- FOR ADJACENT BATTERY CABINET FRAME CONNECTION TO UPS: REMOVE LEFT SIDE PANEL AND PLATE FROM UPS. REMOVE KNOCKOUTS (THREE PLACES) ON RIGHT FRONT SIDE OF BATTERY CABINET FRAME. PLACE BATTERY CABINET NEXT TO UPS. LINE UP HOLES AND SECURE WITH M6 HARDWARE INCLUDED WITH BATTERY CABINET.



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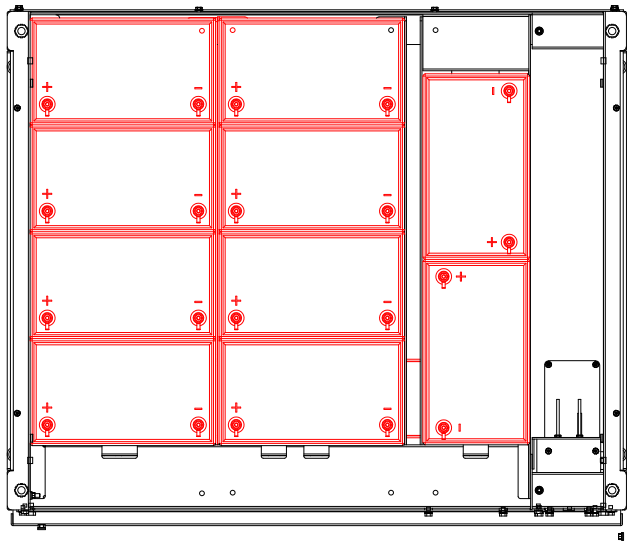


TITLE: GALAXY VS BATTERY CABINET UL TYPE-4&5, SEISMIC UNIT
 Input: 480Vdc, 3PH, 60Hz
 Output: 480Vac, 3PH, 60Hz
 INTERNAL VIEW

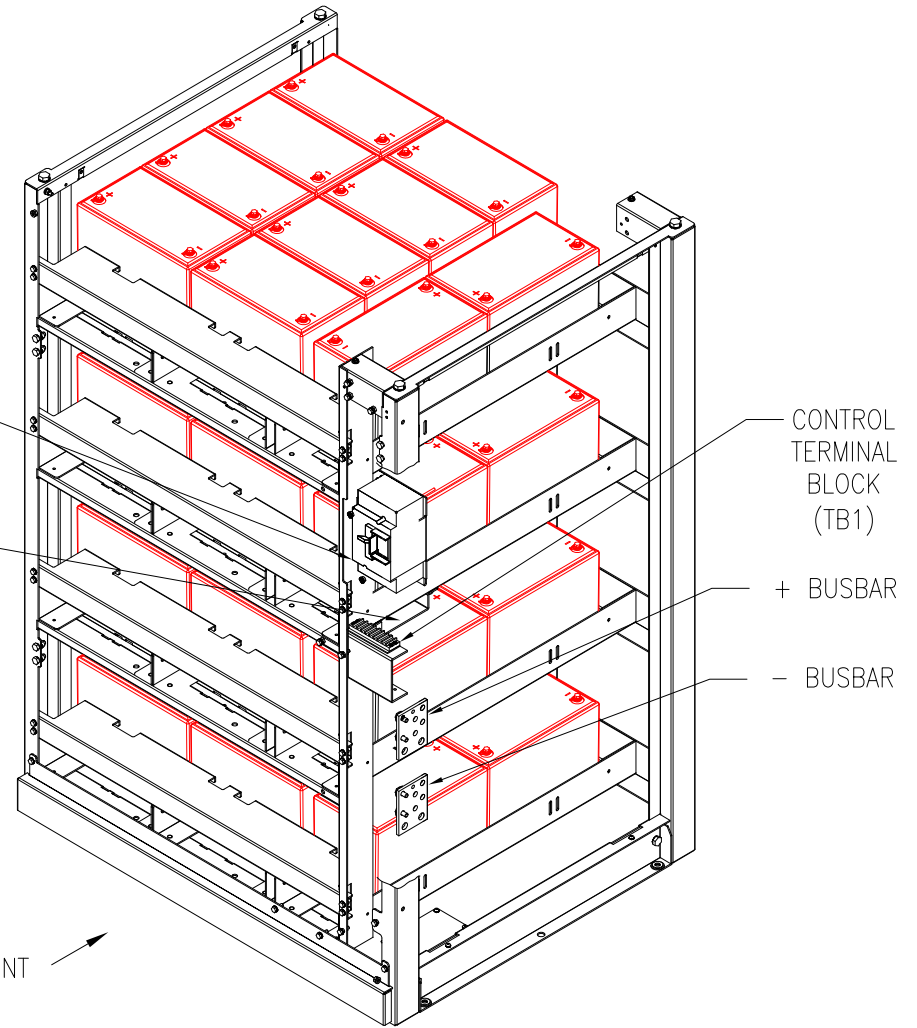
PROJECT: DRAWINGS **SHEET** 3 OF 7

DWG NO: GVSCBT4ST-5ST **REV.** 2

DRAWN BY: JAYAPRAKASH 28-MAR-19 **THIRD**
ENGINEER: IRENE KENNEDY 26-FEB-21 **ANGLE**
APPROVED BY: IRENE KENNEDY 26-FEB-21 **PROJECTION**



INTERNAL TOP VIEW
(BATTERY SHOWN FOR REFERENCE)



INTERNAL ISOMETRIC VIEW
(FRAME CUT AND SHOWN FOR CONVENIENCE)

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2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. FOR CONNECTION DETAILS REFER TO UPS INSTALLATION MANUAL.
- △4. THE TEMPERATURE SENSOR IS SUPPLIED IN THE UPS CABINET.
FOR ADJACENT BATTERY CABINET, CONNECT IN THE UPS, ROUTE AND MOUNT SENSOR WHERE SHOWN IN THE BATTERY CABINET.
FOR REMOTE BATTERY CABINET, CONNECT TO TERMINAL BLOCK IN BATTERY CABINET. CONNECTION FROM BATTERY TO UPS NOT PROVIDED. REFER TO SHEET-6 FOR CONNECTION DETAILS.
5. REMOVABLE PAD-LOCK PROVIDED FOR DC BREAKER.

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TITLE: GALAXY VS
BATTERY CABINET UL TYPE-4&5, SEISMIC UNIT
Input: 480Vdc, 3PH, 60Hz
Output: 480Vdc, 3PH, 60Hz
INTERNAL DETAILS
PROJECT: DRAWINGS SHEET 4 OF 7

DWG NO:	GVSCBT4ST-5ST	REV:	0
DRAWN BY:	K.NAGENDRA	10-JAN-19	THIRD
ENGINEER:	IRENE KENNEDY	26-FEB-21	ANGLE
APPROVED BY:	IRENE KENNEDY	26-FEB-21	PROJECTION

BATTERY RUNTIMES (minutes) at Full Load (calculated)				Classic Battery Cabinets											
				1x GVSCBT4ST			1x GVSCBT5ST			2x GVSCBT4ST			2x GVSCBT5ST		
				39" / 1000mm Wide			39" / 1000mm Wide			2x 39" / 1000mm Wide			2x 39" / 1000mm Wide		
				40 Batteries			40 Batteries			40 Batteries			40 Batteries		
		UPS SKU	PF 0.8	PF 0.9	PF 1	PF 0.8	PF 0.9	PF 1	PF 0.8	PF 0.9	PF 1	PF 0.8	PF 0.9	PF 1	
GALAXY VS (1 PM)	480V	20kW	GVSUPS20KGS	94.5	82.5	72.0	115.0	100.0	88.5	220.0	190.0	170.0	265.0	230.0	205.0
		30kW	GVSUPS30KGS	57.5	49.5	43.0	71.0	61.0	53.5	135.0	115.0	100.0	165.0	140.0	125.0
		40kW	GVSUPS40KGS	39.5	34.0	29.5	49.5	42.5	37.0	95.5	82.5	72.0	115.0	100.0	85.5
		50kW	GVSUPS50KGS	29.5	25.5	22.0	37.0	32.0	27.5	72.0	62.5	54.5	88.5	77.0	67.5
GALAXY VS (2 PM)	480V	60kW	GVSUPS60KGS	23.5	20.0	17.0	29.0	25.0	21.5	57.5	49.5	43.5	71.0	61.5	53.5
		80kW	GVSUPS80KGS	15.5	13.0	11.0	19.5	16.5	14.5	40.0	34.0	30.0	49.5	42.5	37.0
		100kW	GVSUPS100KGS	11.0	9.5	8.0	14.5	12.0	10.0	29.5	25.5	22.0	37.0	32.0	27.5
GALAXY VS (1 PM)	208V	10kW	GVSUPS10KFS	215.0	190.0	165.0	260.0	225.0	200.0	505.0	440.0	390.0	600.0	520.0	460.0
		15kW	GVSUPS15KFS	130.0	115.0	100.0	160.0	140.0	120.0	310.0	270.0	235.0	370.0	325.0	285.0
		20kW	GVSUPS20KFS	94.0	81.5	71.5	115.0	100.0	88.0	220.0	190.0	165.0	260.0	230.0	200.0
		25kW	GVSUPS25KFS	71.5	61.5	54.0	88.0	75.5	66.5	165.0	145.0	125.0	200.0	175.0	155.0
GALAXY VS (2 PM)	208V	30kW	GVSUPS30KFS	57.0	49.0	42.5	70.0	60.5	53.0	135.0	115.0	100.0	160.0	140.0	120.0
		40kW	GVSUPS40KFS	39.5	33.5	29.5	49.0	42.0	36.5	94.5	81.5	71.5	115.0	100.0	88.0
		50kW	GVSUPS50KFS	29.5	25.0	21.5	36.5	31.5	27.5	71.5	61.5	54.0	88.0	76.0	66.5

EMERGENCY LIGHTING AND POWER SYSTEM PER UL 924						
UPS			Battery Cabinet			Runtime
Voltage	Rated Output kW (kVA)	UPS SKU	Battery SKU	Battery Model	Number of battery cabinets	Minutes
480V	30	GVSUPS30KGS	GVSCBT4ST	EnerSys 12HX300	2	90
208V	15	GVSUPS15KFS	GVSCBT4ST	EnerSys 12HX300	1	90
	25	GVSUPS25KFS	GVSCBT4ST	EnerSys 12HX300	2	90
	30	GVSUPS30KFS	GVSCBT4ST	EnerSys 12HX300	2	90

CANADIAN EMERGENCY LIGHTING AND POWER SYSTEM PER CSA 22.2 NO. 141-15						
UPS			Battery Cabinet			Runtime
Voltage	Rated Output kW (kVA)	UPS SKU	Battery SKU	Battery Model	Number of battery cabinets	Minutes
480V	30	GVSUPS30KGS	GVSCBT4ST	EnerSys 12HX300	1	30
	40	GVSUPS40KGS	GVSCBT5ST	EnerSys 12HX330	1	30
	50	GVSUPS50KGS	GVSCBT4ST	EnerSys 12HX300	2	30
	60	GVSUPS60KGS	GVSCBT4ST	EnerSys 12HX300	2	30
	80	GVSUPS80KGS	GVSCBT5ST	EnerSys 12HX330	2	30
208V	25	GVSUPS25KFS	GVSCBT4ST	EnerSys 12HX300	1	30
	30	GVSUPS30KFS	GVSCBT4ST	EnerSys 12HX300	1	30
	40	GVSUPS40KFS	GVSCBT5ST	EnerSys 12HX330	1	30
	50	GVSUPS50KFS	GVSCBT4ST	EnerSys 12HX300	2	30

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3. REFER TO BATTERY INSTALLATION MANUAL FOR CABLING DETAILS.

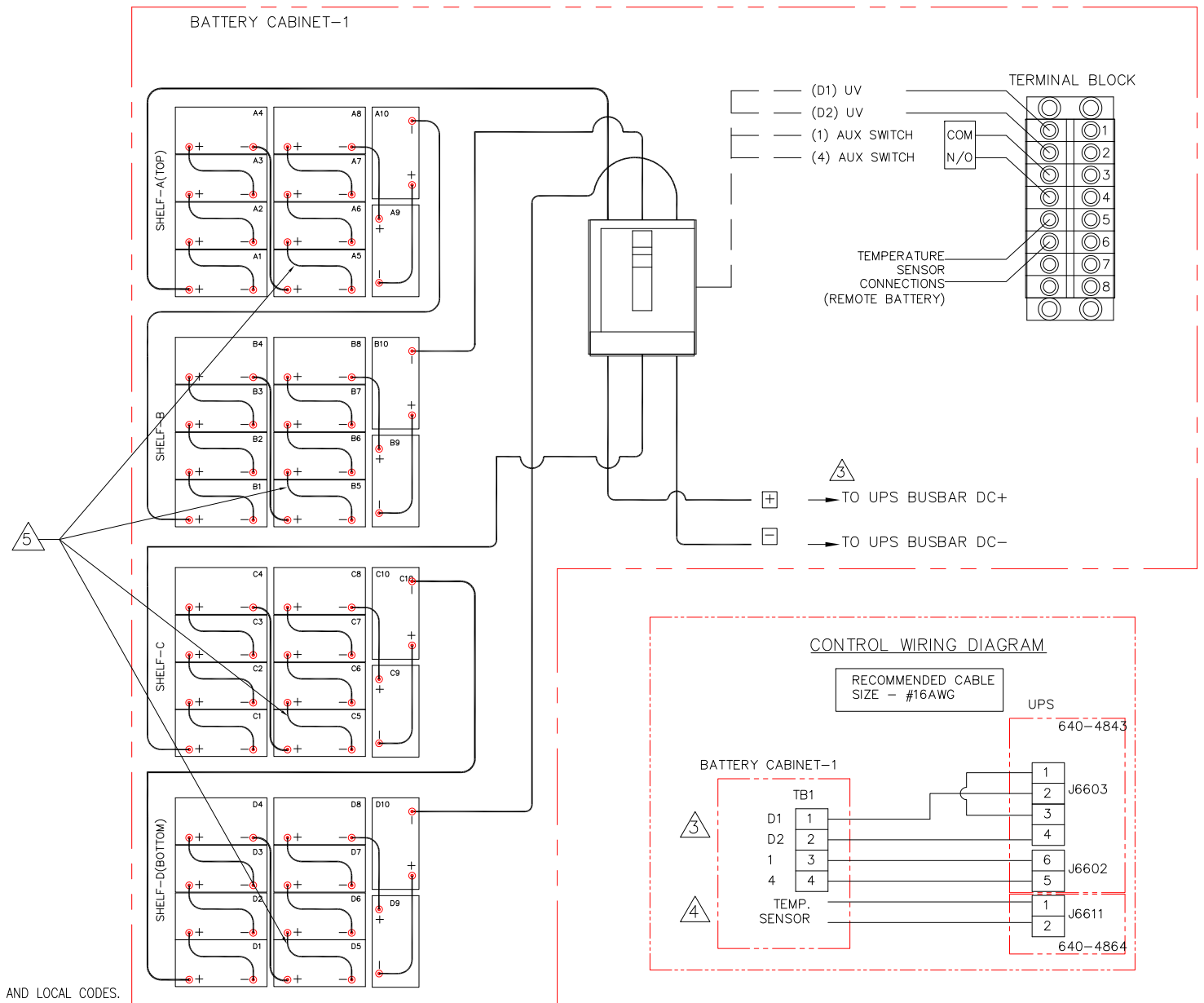
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TITLE: GALAXY VS BATTERY CABINET UL TYPE-4&5, SEISMIC UNIT
 Input: 480Vdc, 3PH, 60Hz
 Output: 480Vdc, 3PH, 60Hz
 RUNTIME DATA & SPECIFICATION
PROJECT: DRAWINGS **SHEET 5 OF 7**

DWG NO: GVSCBT4ST-5ST	REV. 2
DRAWN BY: JAYAPRAKASH	19-FEB-21
ENGINEER: SYED BASHA	26-FEB-21
APPROVED BY: SYED BASHA	26-FEB-21
	THIRD ANGLE PROJECTION

TYPICAL CABLING DIAGRAM (ONE CABINET)



NOTES:

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△ 3. POWER AND CONTROL CABLES ARE PROVIDED. FOR USE ONLY WITH ADJACENT BATTERY CABINET INSTALLATION ON LEFT SIDE OF UPS CABINET.

△ 4. TEMPERATURE SENSOR OM-1160 IS SUPPLIED IN THE UPS CABINET.

△ 5. STRING DISCONNECT CABLES ARE REMOVED FROM EACH SHELF PRIOR TO SHIPMENT. RE-CONNECT PRIOR TO CABINET INSTALLATION.

TORQUE CABLES TO BATTERY MANUFACTURER'S SPECIFICATION.

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TITLE: GALAXY VS BATTERY CABINET UL TYPE-4&5, SEISMIC UNIT
 Input: 480Vdc, 3PH, 60Hz
 Output: 480Vdc, 3PH, 60Hz
 CABLING DETAILS-1

PROJECT: DRAWINGS SHEET 6 OF 7

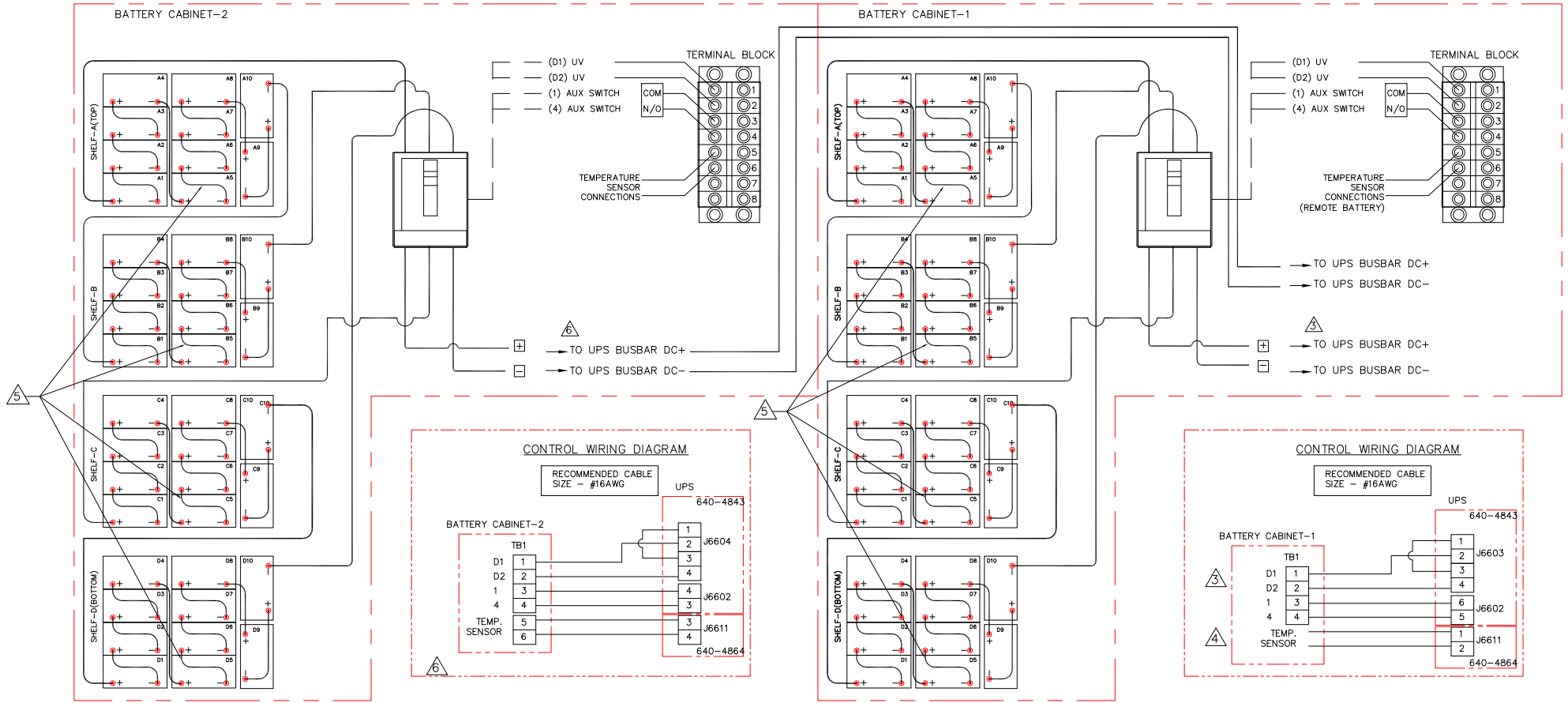
DWG NO: GVSCBT4ST-5ST REV. 2

DRAWN BY: K.NAGENDRA 30-MAY-19 THIRD

ENGINEER: IRENE KENNEDY 26-FEB-21 ANGLE

APPROVED BY: IRENE KENNEDY 26-FEB-21 PROJECTION

TYPICAL CABLING DIAGRAM (TWO CABINET)



NOTES:

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- △ 3. POWER AND CONTROL CABLES ARE PROVIDED. FOR USE ONLY WITH ADJACENT BATTERY CABINET INSTALLATION ON LEFT SIDE OF UPS CABINET.
- △ 4. TEMPERATURE SENSOR 0M-1160 IS SUPPLIED IN THE UPS CABINET.
- △ 5. STRING DISCONNECT CABLES ARE REMOVED FROM EACH SHELF PRIOR TO SHIPMENT. RE-CONNECT PRIOR TO CABINET INSTALLATION. TORQUE CABLES TO BATTERY MANUFACTURER'S SPECIFICATION.
- △ 6. ADJACENT BATTERY CABINET-2 INSTALLATION REQUIRES OPTIONAL CABLE KIT "GVSOPT011" FOR CONNECTION TO UPS. DISCARD PRE-INSTALLED POWER AND COMMUNICATION CABLES. ADDITIONAL TEMPERATURE SENSOR OJ-0M-1160 REQUIRED.
7. BATTERY CABINET-1 AND BATTERY CABINET-2 EACH CONNECT DIRECTLY TO THE UPS CABINET. NO DAISY CHAIN CONNECTIONS BETWEEN BATTERY CABINETS.
8. REMOTER BATTERY CABLES PROVIDED BY OTHERS.

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TITLE: GALAXY VS BATTERY CABINET UL TYPE-4&5, SEISMIC UNIT
 Input: 480Vdc, 3PH, 60Hz
 Output: 480Vdc, 3PH, 60Hz
 CABLING DETAILS-1
 PROJECT: DRAWINGS SHEET 7 OF 7

DWG NO:	GVSCBT4ST-5ST	REV.	4
DRAWN BY:	K.NAGENDRA	31-MAY-19	THIRD
ENGINEER:	IRENE KENNEDY	26-FEB-21	ANGLE
APPROVED BY:	IRENE KENNEDY	26-FEB-21	PROJECTION