

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	
GVSCBT4	16.9 [429]	29.1 [739]	16.4 [417]	2913 [1324]
GVSCBT5	17.4 [442]	29.2 [742]	16.7 [424]	3352 [1524]

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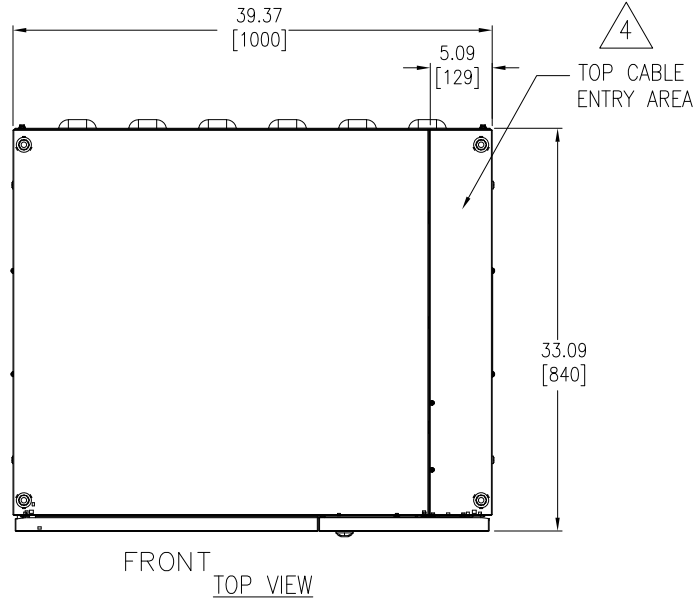


TITLE: GALAXY VS BATTERY CABINET UL TYPE-4 & 5
 Input: 480Vdc, 3PH, 60Hz
 Output: 480Vdc, 3PH, 60Hz
 GENERAL ARRANGEMENT

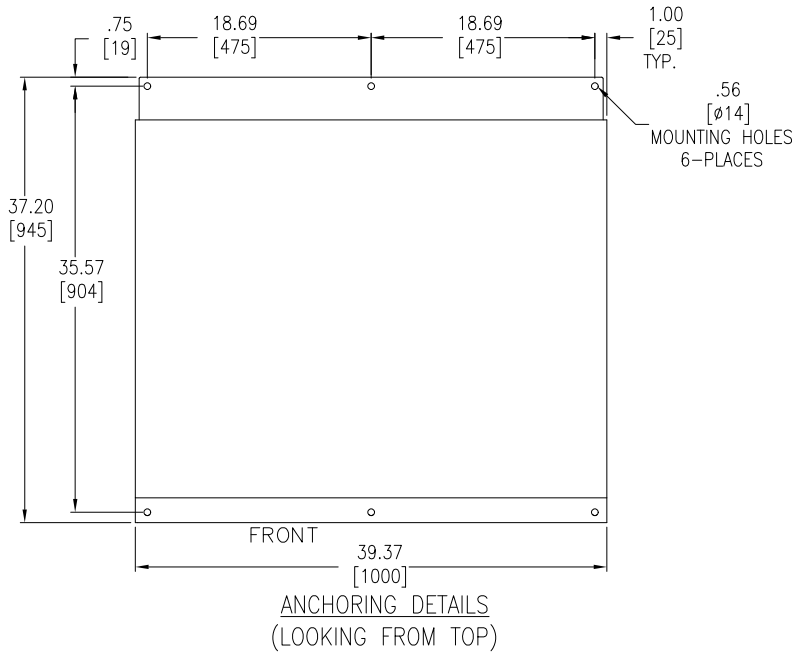
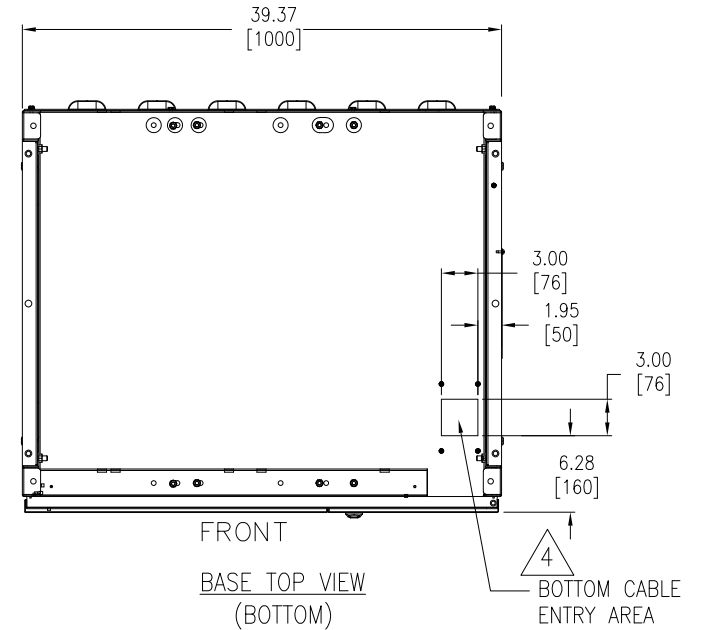
DWG NO: GVSCBT4-5 REV. 1

DRAWN BY: JAYAPRAKASH	19-FEB-21	THIRD
ENGINEER: SYED BASHA	07-JUN-21	ANGLE
APPROVED BY: SYED BASHA	07-JUN-21	PROJECTION

TOP ENTRY CONDUIT LOCATION



BOTTOM ENTRY CONDUIT LOCATION



NOTES:

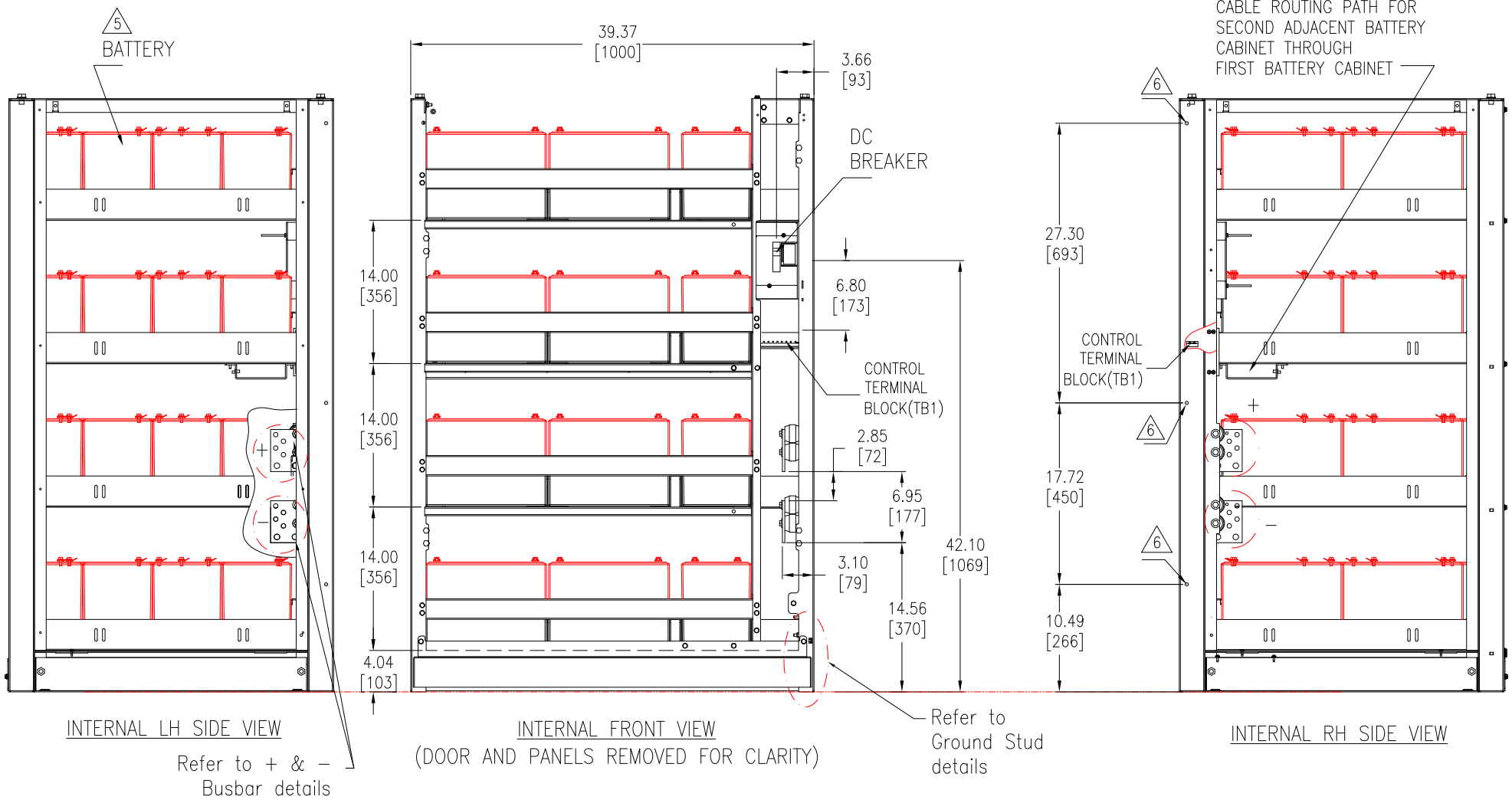
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3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
- △4. DRILL/PUNCH HOLES IN PLATE AS PER REQUIREMENT.
REMOVE PLATE FROM CABINET BEFORE DRILLING/PUNCHING.

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

DWG NO:	GVSCBT4-5	REV.	1
DRAWN BY:	JAYAPRAKASH	19-FEB-21	THIRD
ENGINEER:	SYED BASHA	07-JUN-21	ANGLE
APPROVED BY:	SYED BASHA	07-JUN-21	PROJECTION

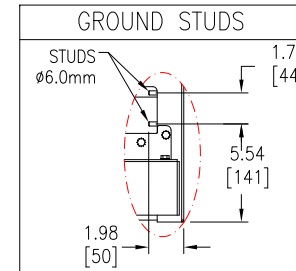
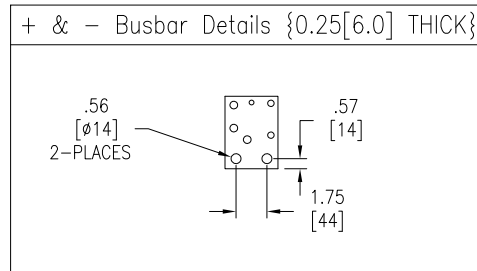


TORQUE SPECIFICATIONS

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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- 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.



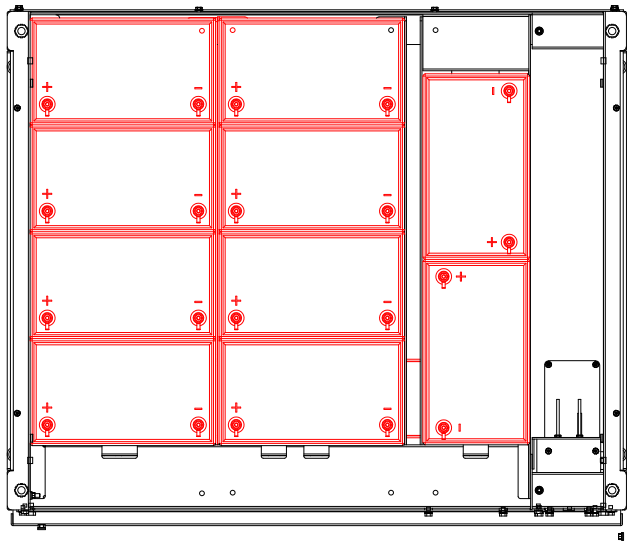
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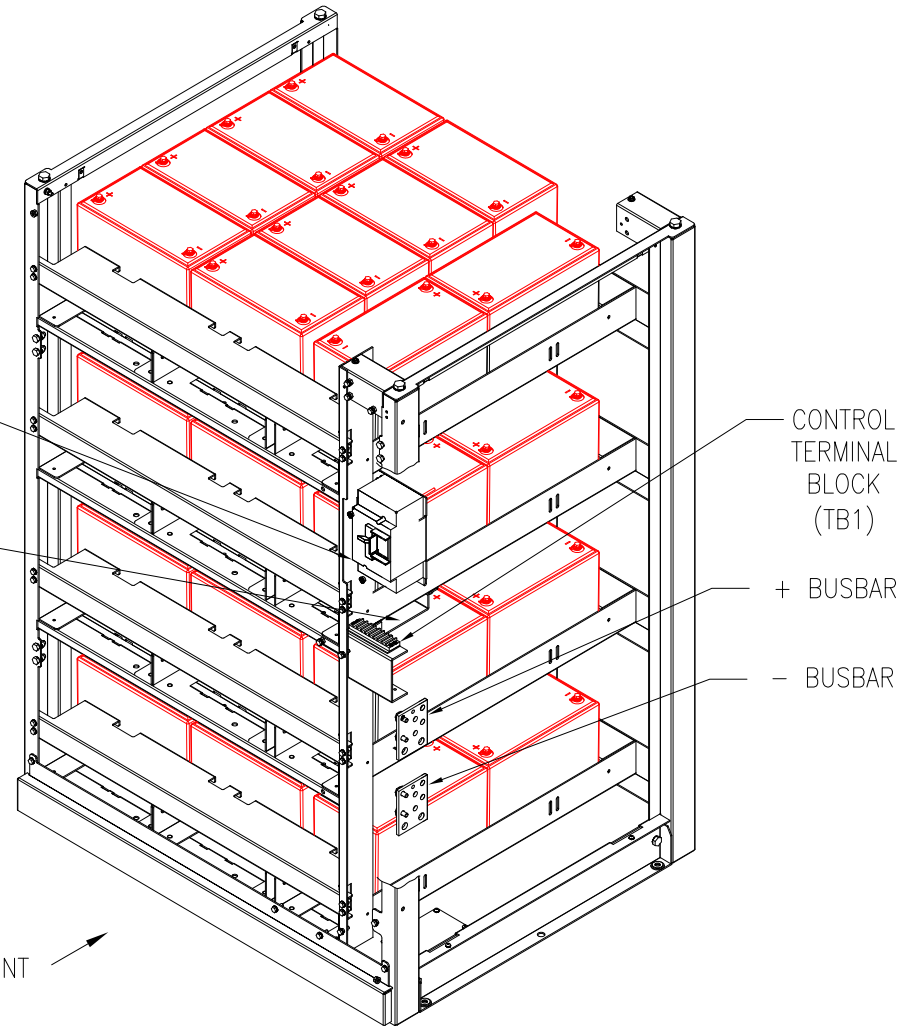
TITLE: GALAXY VS BATTERY CABINET UL TYPE-4 & 5
Input: 480Vdc, 3PH, 60Hz
Output: 480Vdc, 3PH, 60Hz
INTERNAL VIEW

PROJECT: DRAWINGS **SHEET** 3 OF 7

DWG NO: GVSCBT4-5 **REV.** 2
DRAWN BY: JAYAPRAKASH 28-MAR-19 **THIRD**
ENGINEER: IRENE KENNEDY 28-MAR-19 **ANGLE**
APPROVED BY: IRENE KENNEDY 28-MAR-19 **PROJECTION**



INTERNAL TOP VIEW
(BATTERY SHOWN FOR REFERENCE)



INTERNAL ISOMETRIC VIEW
(FRAME CUT AND SHOWN FOR CONVENIENCE)

250A
DC
BREAKER



TEMPERATURE
SENSOR
(ROUTE FROM
UPS CABINET FOR
ADJACENT BATTERY
CABINET)

CONTROL
TERMINAL
BLOCK
(TB1)

+ BUSBAR

- BUSBAR

FRONT

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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
Input: 480Vdc, 3PH, 60Hz
Output: 480Vdc, 3PH, 60Hz
INTERNAL DETAILS

PROJECT: DRAWINGS SHEET 4 OF 7

DWG NO:	GVSCBT4-5	REV:	0
DRAWN BY:	K.NAGENDRA	10-JAN-19	THIRD
ENGINEER:	IRENE KENNEDY	10-JAN-19	ANGLE
APPROVED BY:	IRENE KENNEDY	10-JAN-19	PROJECTION

BATTERY RUNTIMES (minutes) at Full Load (calculated)				Classic Battery Cabinets											
				1x GVSCBT4			1x GVSCBT5			2x GVSCBT4			2x GVSCBT5		
				39" / 1000mm Wide			39" / 1000mm Wide			2x 39" / 1000mm Wide			2x 39" / 1000mm Wide		
				40 Batteries (Leoch:XP12-300FR)			40 Batteries (Leoch:XP12-350FR)			40 Batteries (Leoch:XP12-300FR)			40 Batteries (Leoch:XP12-350FR)		
			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	105.0	94.5	83.0	125.0	110.0	100.0	240.0	210.0	185.0	285.0	250.0	220.0
		30kW	GVSUPS30KGS	67.0	58.0	51.0	80.5	70.0	62.0	150.0	130.0	115.0	180.0	155.0	140.0
		40kW	GVSUPS40KGS	47.5	41.0	36.0	57.0	49.5	43.5	105.0	94.5	83.5	130.0	110.0	100.0
		50kW	GVSUPS50KGS	36.0	31.0	27.0	43.5	37.5	33.0	83.5	72.5	64.0	100.0	87.5	77.0
GALAXY VS (2 PM)	480V	60kW	GVSUPS60KGS	28.5	24.5	21.0	34.5	30.0	26.0	67.0	58.5	51.5	81.0	70.5	62.0
		80kW	GVSUPS80KGS	19.5	16.5	14.0	24.0	20.5	17.5	47.5	41.0	36.0	57.5	49.5	43.5
		100kW	GVSUPS100KGS	14.0	12.0	10.0	17.5	15.0	12.5	36.0	31.0	27.0	43.5	37.5	32.5
GALAXY VS (1 PM)	208V	10kW	GVSUPS10KFS	235.0	205.0	185.0	280.0	245.0	220.0	525.0	460.0	410.0	625.0	545.0	485.0
		15kW	GVSUPS15KFS	150.0	130.0	115.0	175.0	155.0	135.0	330.0	290.0	255.0	395.0	345.0	305.0
		20kW	GVSUPS20KFS	105.0	93.5	82.5	125.0	110.0	99.5	235.0	210.0	185.0	285.0	250.0	220.0
		25kW	GVSUPS25KFS	82.5	71.5	63.0	99.5	86.0	76.0	185.0	160.0	140.0	220.0	190.0	170.0
GALAXY VS (2 PM)	208V	30kW	GVSUPS30KFS	66.5	57.5	50.5	80.0	69.5	61.0	150.0	130.0	115.0	180.0	155.0	135.0
		40kW	GVSUPS40KFS	46.5	40.5	35.5	56.5	49.0	43.0	105.0	93.5	82.5	125.0	110.0	99.5
		50kW	GVSUPS50KFS	35.5	30.5	26.5	43.0	37.0	32.5	82.5	71.5	63.0	99.5	86.5	76.0

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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
Input: 480Vdc, 3PH, 60Hz
Output: 480Vdc, 3PH, 60Hz
RUNTIME DATA & SPECIFICATION

DWG NO: GVSCBT4-5 **REV.** 2

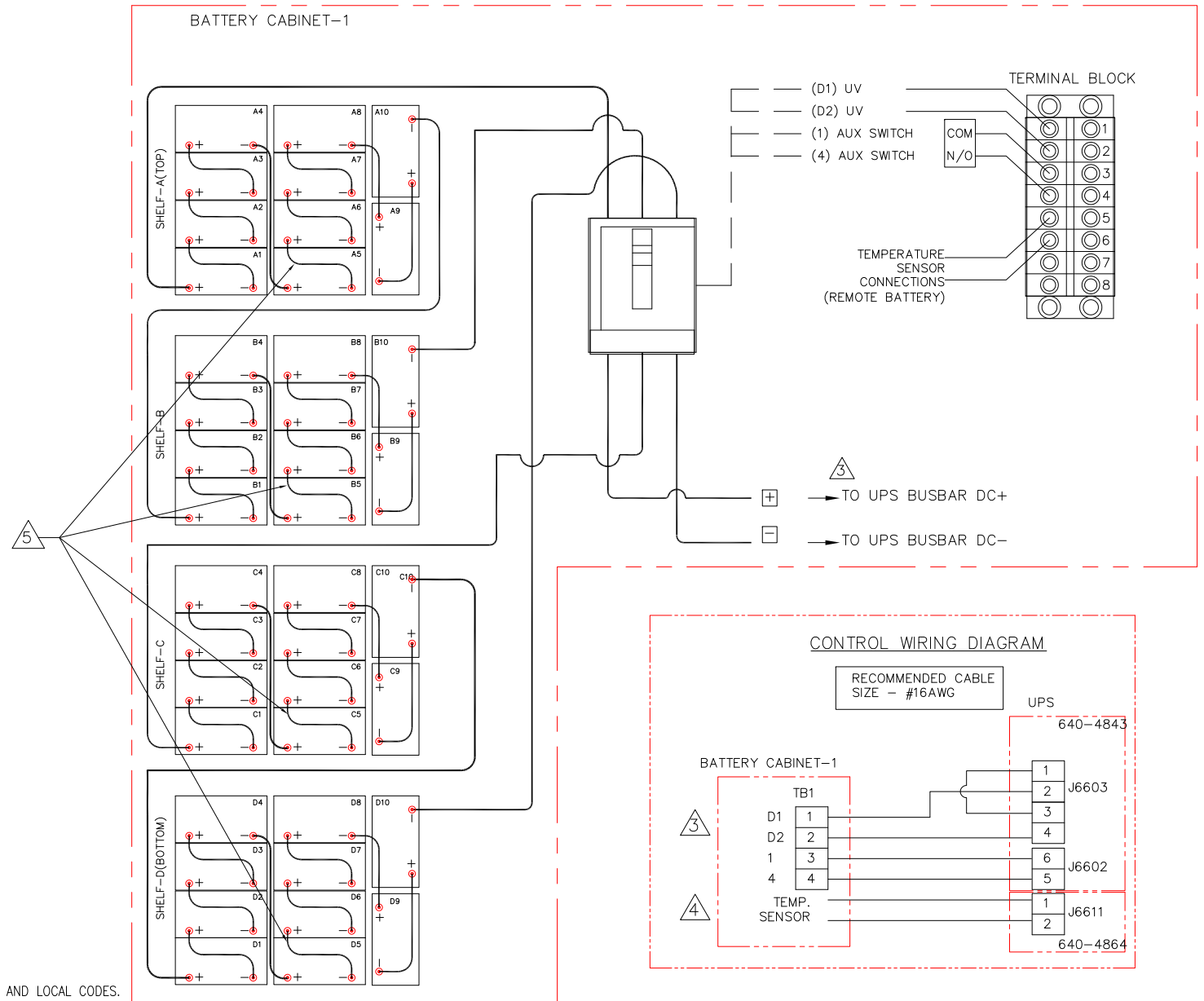
DRAWN BY: JAYAPRAKASH 19-FEB-21 **THIRD**

ENGINEER: SYED BASHA 07-JUN-21 **ANGLE**

PROJECT: SUBMITTAL DRAWING **SHEET 5 OF 7**

APPROVED BY: SYED BASHA 07-JUN-21 **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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Schneider Electric

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

PROJECT: DRAWINGS **SHEET** 6 OF 7

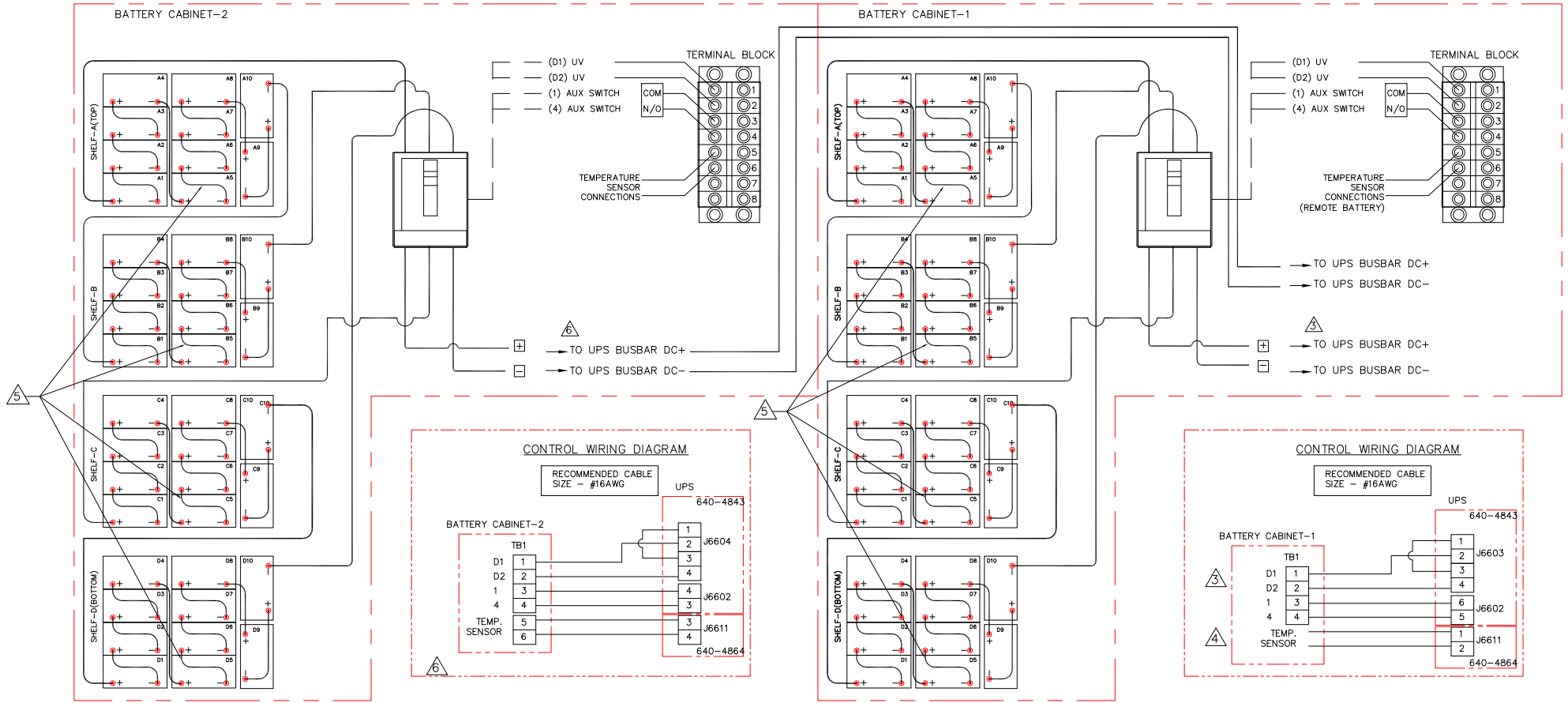
DWG NO: GVSCBT4-5 **REV.** 2

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

ENGINEER: IRENE KENNEDY 30-MAY-19 **ANGLE**

APPROVED BY: IRENE KENNEDY 30-MAY-19 **PROJECTION**

TYPICAL CABLING DIAGRAM (TWO CABINET)



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2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- △ 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
 Input: 480Vdc, 3PH, 60Hz
 Output: 480Vdc, 3PH, 60Hz
 CABLING DETAILS-1

PROJECT: DRAWINGS SHEET 7 OF 7

DWG NO: GVSCBT4-5 REV. 4

DRAWN BY: K.NAGENDRA 31-MAY-19 THIRD

ENGINEER: IRENE KENNEDY 31-MAY-19 ANGLE

APPROVED BY: IRENE KENNEDY 31-MAY-19 PROJECTION