

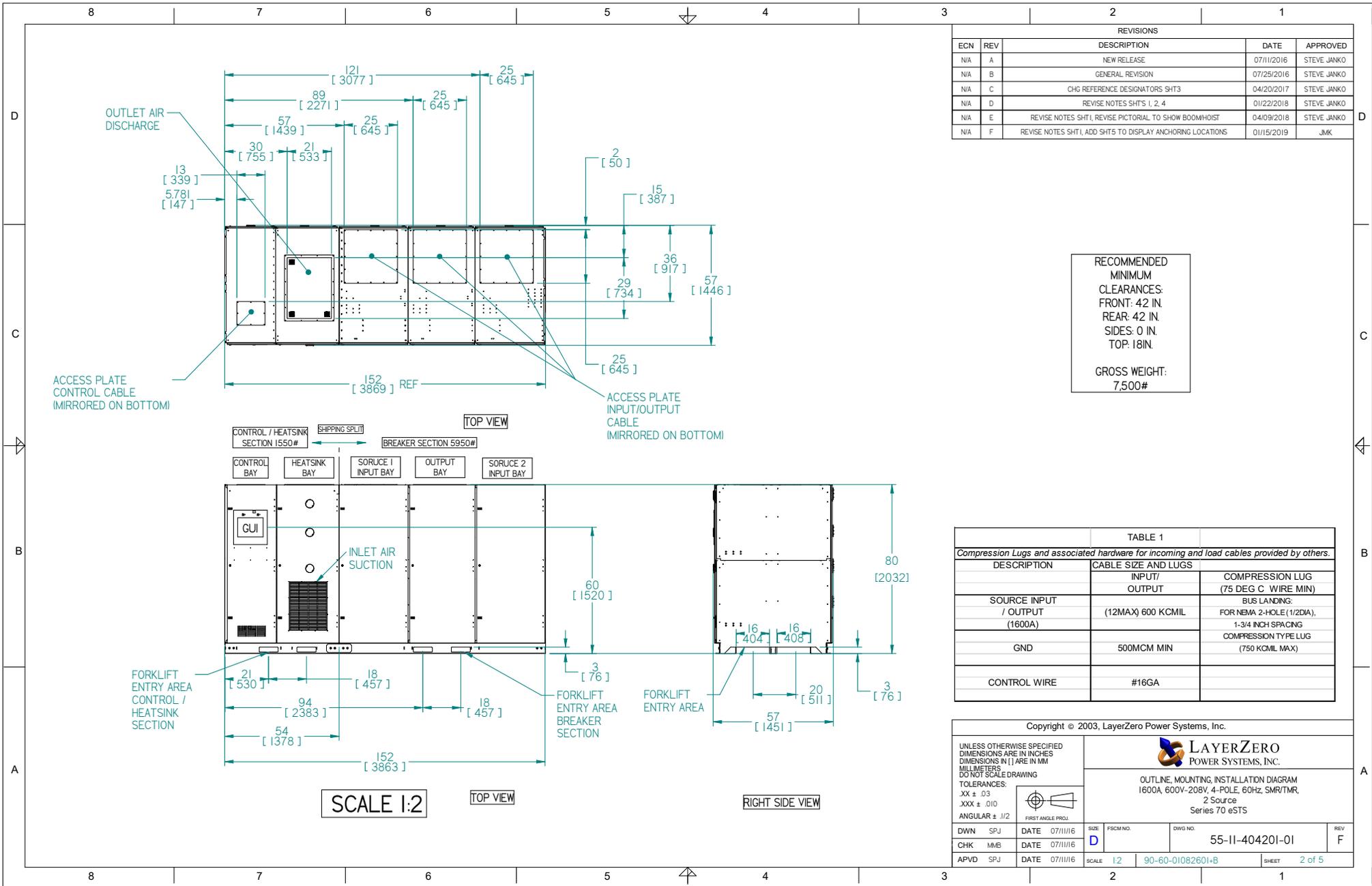
REVISIONS				
ECN	REV	DESCRIPTION	DATE	APPROVED
N/A	A	NEW RELEASE	07/11/2016	STEVE JANKO
N/A	B	GENERAL REVISION	07/25/2016	STEVE JANKO
N/A	C	CHG REFERENCE DESIGNATORS SHT3	04/20/2017	STEVE JANKO
N/A	D	REVISE NOTES SHT'S 1, 2, 4	01/22/2018	STEVE JANKO
N/A	E	REVISE NOTES SHT1, REVISE PICTORIAL TO SHOW BOOM/HOIST	04/09/2018	STEVE JANKO
N/A	F	REVISE NOTES SHT1, ADD SHT5 TO DISPLAY ANCHORING LOCATIONS	01/15/2019	JMK

Notes:

1. Front / Rear access only required for operation and servicing of Series 70 eSTS. Top or Bottom Access is available.
2. The Series 70 eSTS is mounted on split common frame with all internal connections factory provided. There is one shipping split.
3. The interconnection between the 2 bays will be field installed with all hardware pre-tested and supplied.
4. The Circuit Breakers will be tested and shipped separate for field installation for added security.
5. An optional boom, chain hoist and slings are provided and shipped separately to allow for installation of the Circuit Breakers. The boom mounts to the channel above each of the circuit breaker bays.
6. The unit is provided with side forklift provision as shown for maneuvering.
7. For the 2 Source Series 70 eSTS, with a 600-480V / 1600A / 60Hz / SMR/TMR / 4-wire configuration:
see Sht 2 for Cable Access Areas (Table I) and recommended wire size (Table I)
see Sht 4 for Cable Landing Locations
8. See One-Line electrical diagram for further detail.
9. Option: Custom bus adaptation from the Input and Output bus to bus ducting is available on demand if cable connection is not used. Please specify bus duct in use at the time of order.
NOTE: 18 inch high junction boxes are provided for cable interconnect from the top of the unit as standard. The junction boxes are only shown on Sheet1 with the access areas common between the top of the cabinet and the junction boxes
10. See Sht 5 for anchoring locations.

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE IN MM MILLIMETERS DO NOT SCALE DRAWING TOLERANCES: .XX ± .03 .XXX ± .010 ANGULAR ± .1/2		 <p>LAYERZERO POWER SYSTEMS, INC.</p> <p>OUTLINE, MOUNTING, INSTALLATION DIAGRAM 1600A, 600V-208V, 4-POLE, 60Hz, SMR/TMR, 2 Source Series 70 eSTS</p>		SIZE	FSCM NO.	DWG NO.	REV
DWN	SPJ			DATE	07/11/16	D	55-11-404201-01
CHK	MMB	DATE	07/11/16	SCALE	1:1	90-60-01082601-B	SHEET
APVD	SPJ	DATE	07/11/16			1 of 5	



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RECOMMENDED MINIMUM CLEARANCES:
 FRONT: 42 IN
 REAR: 42 IN
 SIDES: 0 IN
 TOP: 18 IN

GROSS WEIGHT: 7,500#

TABLE 1		
Compression Lugs and associated hardware for incoming and load cables provided by others:		
DESCRIPTION	CABLE SIZE AND LUGS	COMPRESSION LUG (75 DEG C WIRE MIN)
SOURCE INPUT / OUTPUT (1600A)	INPUT/ OUTPUT (12MAX) 600 KCMIL	BUS LANDING: FOR NEMA 2-HOLE (1/2DA), 1-3/4 INCH SPACING
GND	500MCM MIN	COMPRESSION TYPE LUG (750 KCMIL MAX)
CONTROL WIRE	#16GA	

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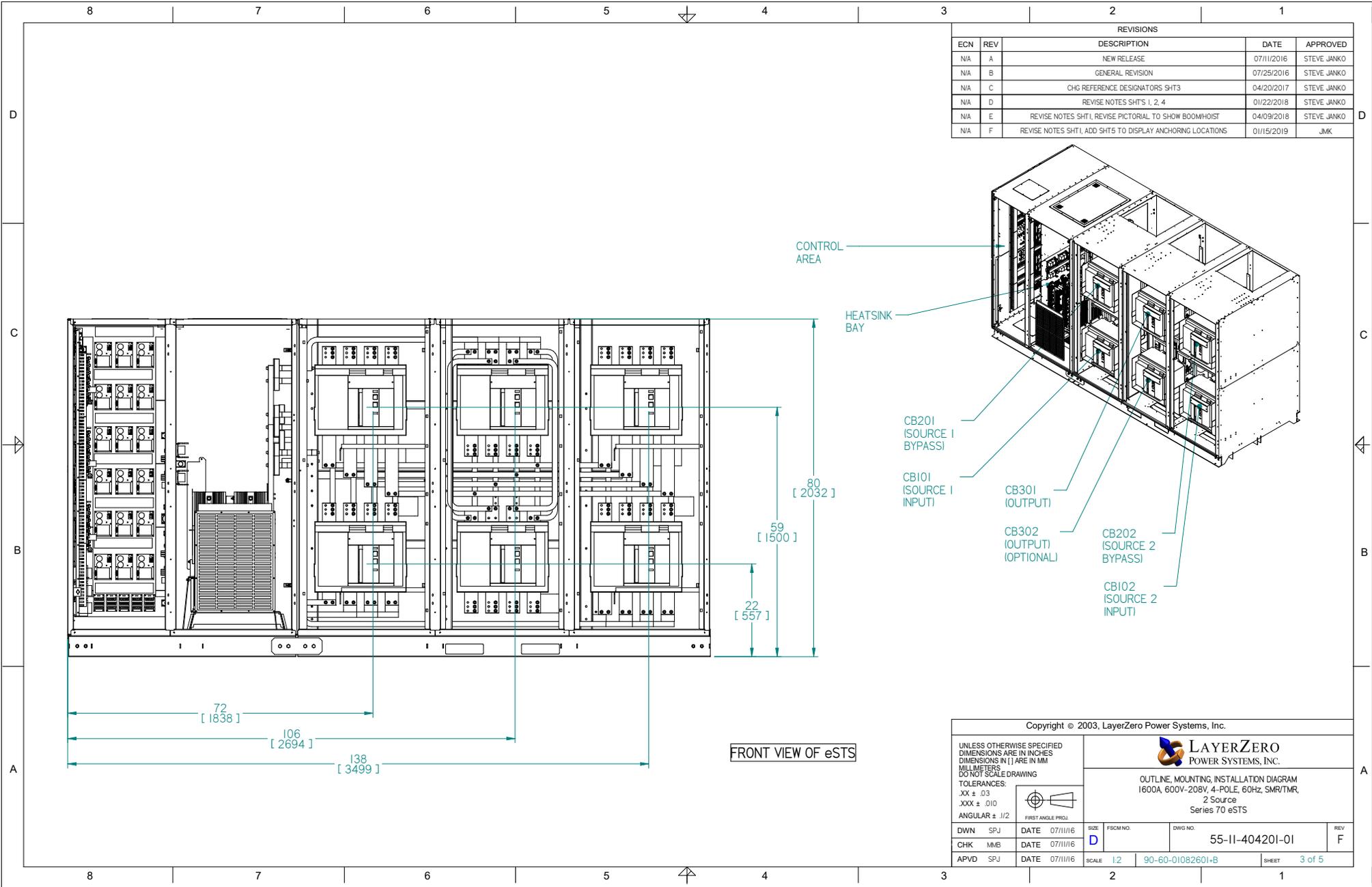
FIRST ANGLE PROJ

SIZE: D FSCM NO. DWG NO. 55-11-404201-01 REV F

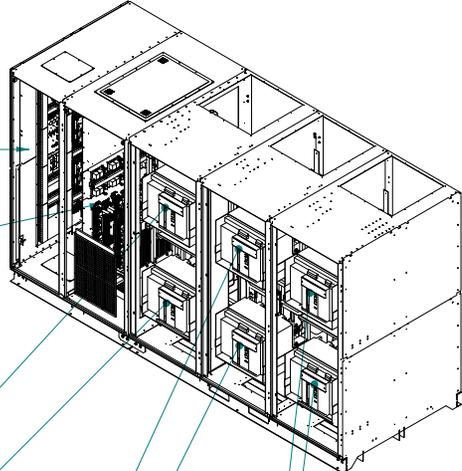
APVD: SPJ DATE: 07/11/16 SCALE: 1:2 90-60-01082601+B SHEET: 2 of 5

LAYERZERO POWER SYSTEMS, INC.

OUTLINE, MOUNTING, INSTALLATION DIAGRAM
 1600A, 600V-208V, 4-POLE, 60Hz, SMR/TMR,
 2 Source
 Series 70 eSTS



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CONTROL AREA

HEATSINK BAY

CB201 (SOURCE 1 BYPASS)

CB101 (SOURCE 1 INPUT)

CB301 (OUTPUT)

CB302 (OUTPUT) (OPTIONAL)

CB202 (SOURCE 2 BYPASS)

CB102 (SOURCE 2 INPUT)

FRONT VIEW OF eSTS

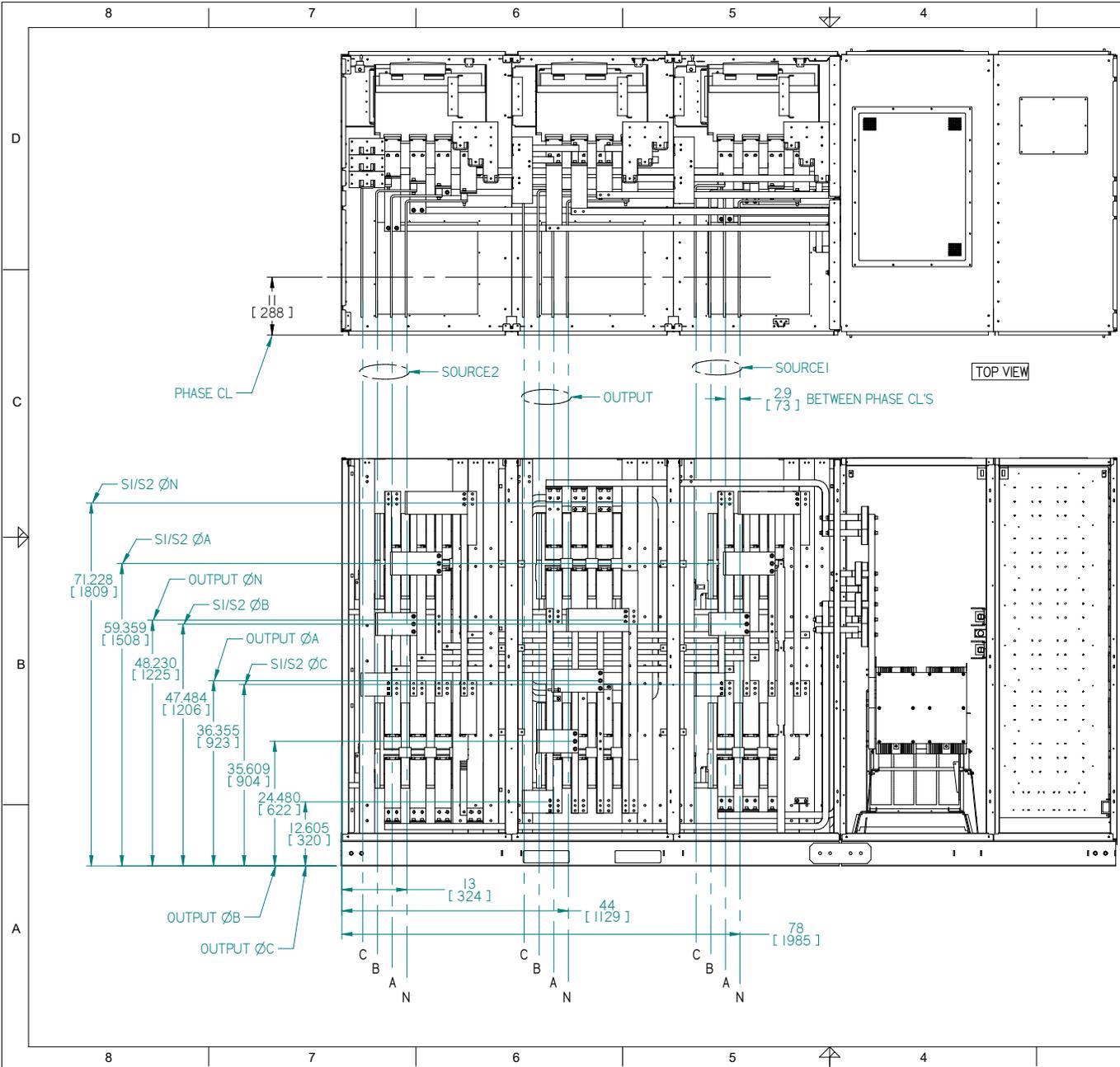
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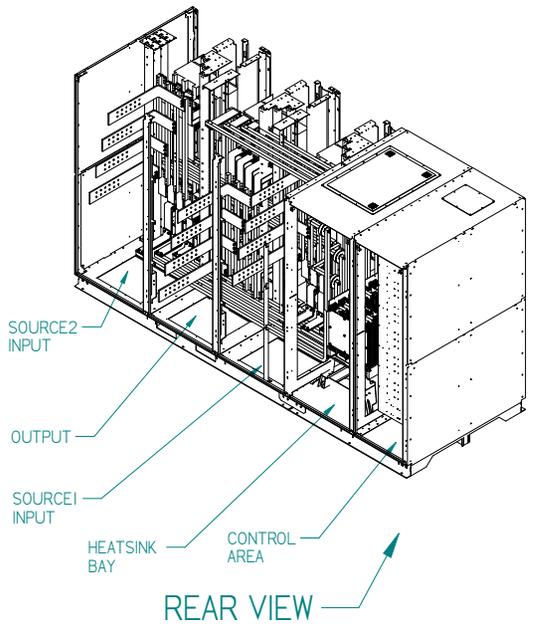


OUTLINE, MOUNTING, INSTALLATION DIAGRAM
 1600A, 600V-208V, 4-POLE, 60Hz, SMR/TMR,
 2 Source
 Series 70 eSTS

DWN	SPJ	DATE	07/11/16	SIZE	D	FSCM NO.	DWG NO.	55-11-404201-01	REV	F
CHK	MME	DATE	07/11/16	SCALE	1/2	90-60-01082601-B	SHEET	3 of 5		
APVD	SPJ	DATE	07/11/16							



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REAR VIEW OF eSTS

BUS CONNECTION ON SOURCE INPUTS AND OUTPUT / FOR MAX QTY12 600MCM CABLE (TYP PER PHASE)

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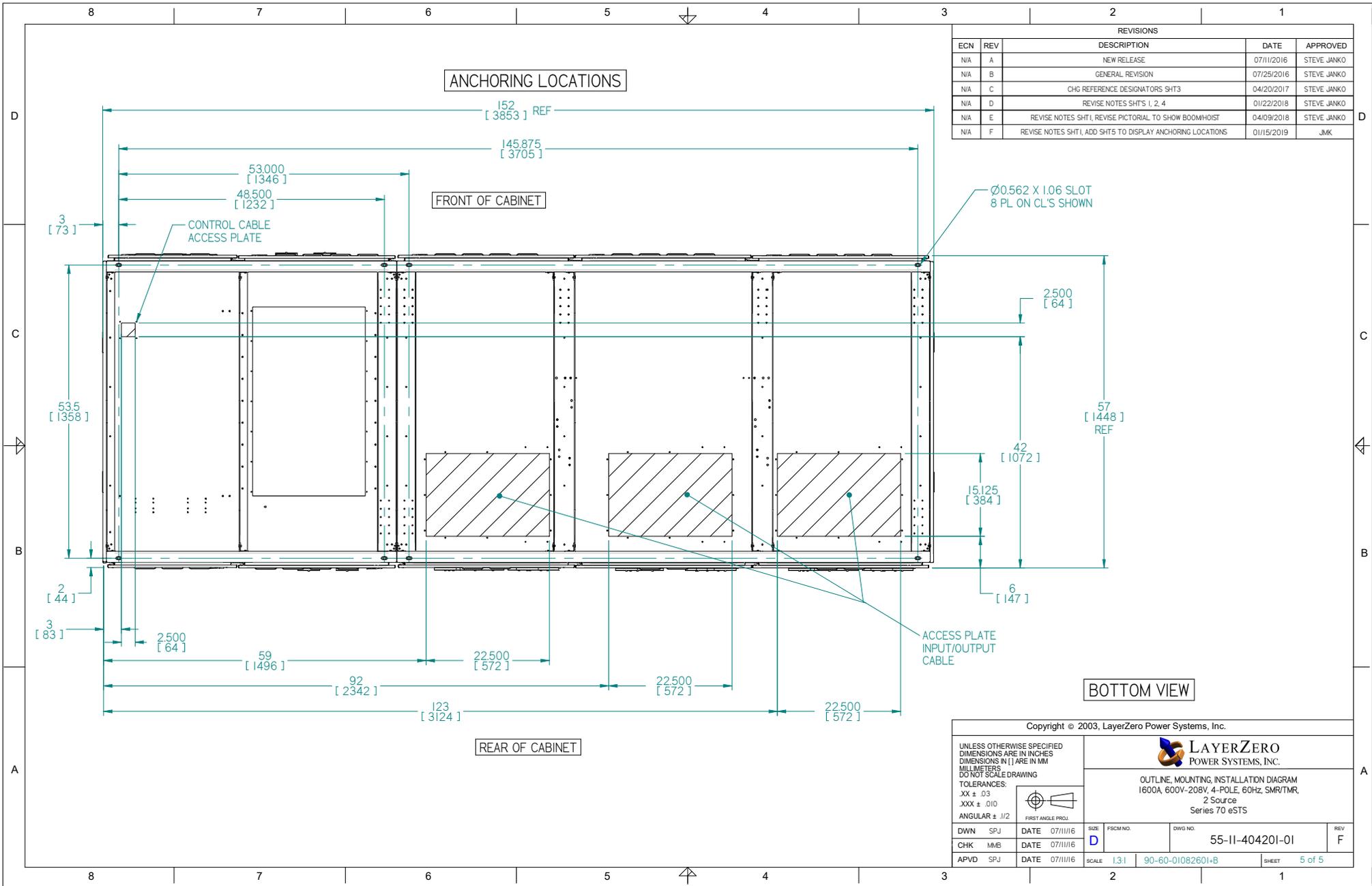
SIZE: D FSCM NO. DWG NO. 55-11-404201-01 REV F

APVD: SPJ DATE: 07/11/16 SCALE: 1:1 SHEET: 4 of 5

90-60-01082601-B



OUTLINE, MOUNTING, INSTALLATION DIAGRAM
 1600A, 600V-208V, 4-POLE, 60Hz, SMR/TMR,
 2 Source
 Series 70 eSTS



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APVD	SPJ	DATE	07/11/16						