

8 7 6 5 4 3 2 1

REMOVABLE  
INPUT AND OUPUT  
BUS DEAD FRONT PANEL

SOURCE 2  
INPUT SWITCH  
W/KEY LOCK B

SOURCE 1  
INPUT SWITCH  
W/KEY LOCK A

BYPASS 1  
SWITCH  
W/KEY LOCK B

BYPASS 2  
SWITCH  
W/KEY LOCK A

ISOLATE 1  
SWITCH

ISOLATE 2  
SWITCH

REMOVABLE BREAKER  
DEAD FRONT

CONTRACTOR BOARD  
COMPARTMENT

VIEW WITHOUT FRONT DOORS

REMOVABLE  
TOP FAN TRAY

REMOVABLE  
SCR DEAD FRONT  
PANEL

REMOVABLE  
BOTTOM FAN TRAY

REMOVABLE  
LOGIC AND BOTTOM

60.00

A

A

VIEW WITHOUT FRONT DOORS AND DEAD FRONT

ETHERNET  
CONNECTION

BOTTOM REMOVABLE  
PANEL

36.00

84.00

OPTIONAL  
EPO BUTTON

TOUCH SCREEN  
DISPLAY

REDUNDANT OPERATOR INTERFACE  
BOARD ACCESS

FILTER DOOR

CONTRACTOR BOARD ACCESS PANEL

GENERAL SPECIFIED  
CABINET CHARACTERISTIC:  
ENCLOSURE : NEMA 1  
LOCATION : INDOOR  
MECHANICAL:  
MOUNTING: BOLT TO CONCRETE FLOOR OR FLOOR STAND  
MATERIAL: STEEL  
WEIGHT : 2000 LBS. APPROX.  
FRONT ACCESS FOR INSTALLATION AND MAINTENANCE  
ALL OPERATOR CONTROLS ARE FRONT ACCESS WITHOUT EXPOSURE TO LIVE PARTS  
MINIMUM 6" FOR SIDE AND REAR FOR VENTILATION

TOP SLIDE-OUT  
FAN MODULE

BOTTOM  
SLIDE-OUT  
FAN MODULE

SECTION A-A

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES  
[ ] IN MILLIMETER  
ANGULAR: ±0.5° BEND ±1°  
TWO PLACE DECIMAL ±0.02  
THREE PLACE DECIMAL ±0.005

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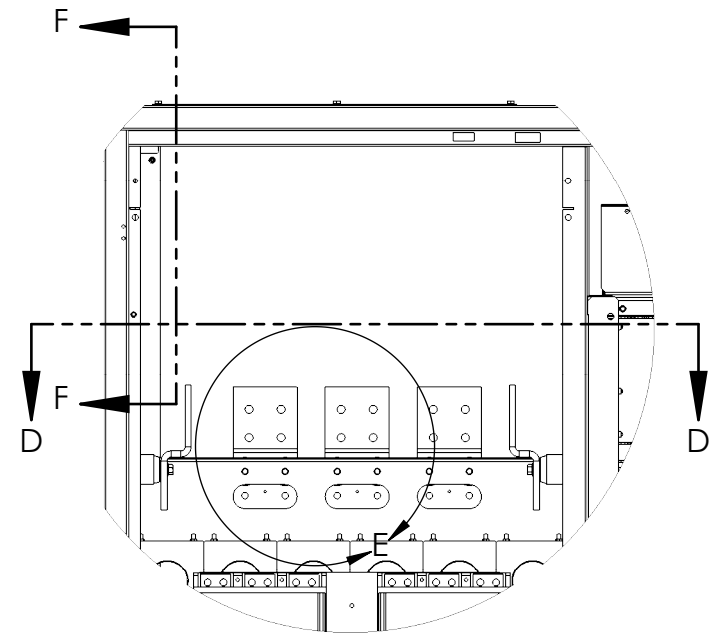
THIRD ANGLE PROJECTION		DO NOT SCALE DRAWING	
APPROVALS		DATE	
DRAWN	FI	1/24/2018	
CHECKED			
ENG. APPR.	AW	1/24/2018	

TITLE: TFA STS OUTLINE DRAWING 800A - 1200A TFA STS TOP ENTRY/EXIT		
SIZE B	DWG. NO. STS68563	REV A
PART NO.		SHEET 1 OF 5

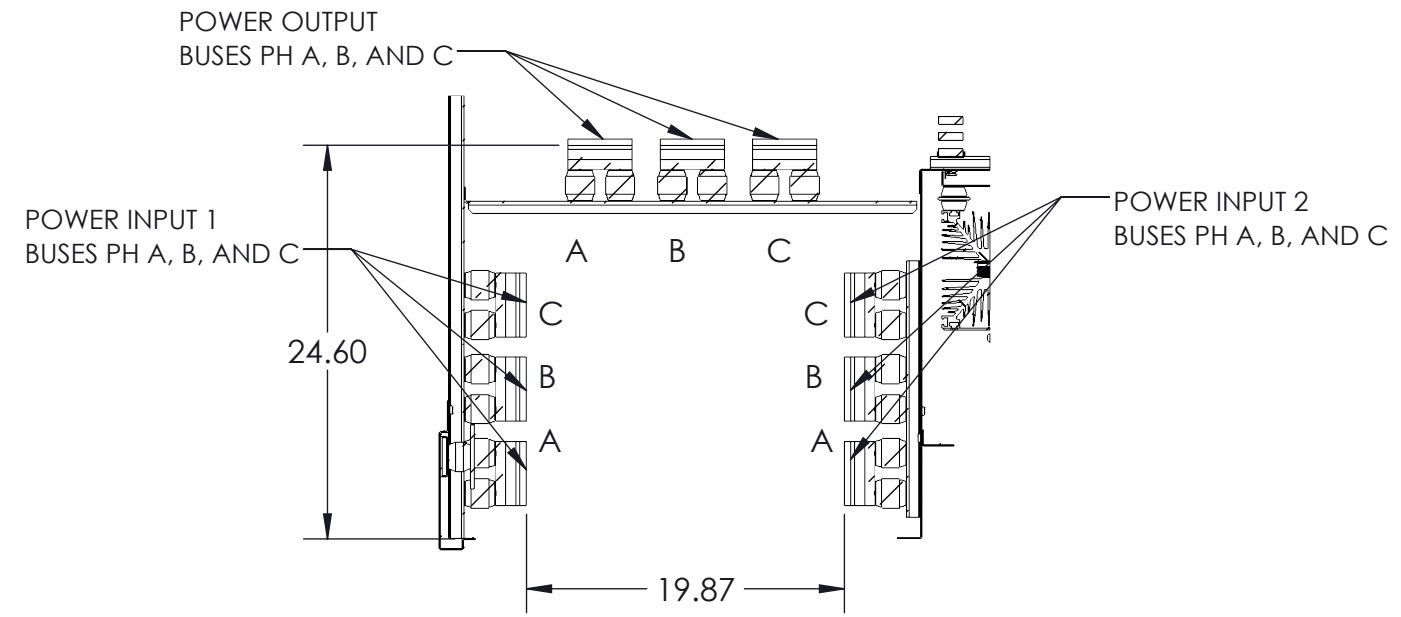
D  
C  
B  
A

D  
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A

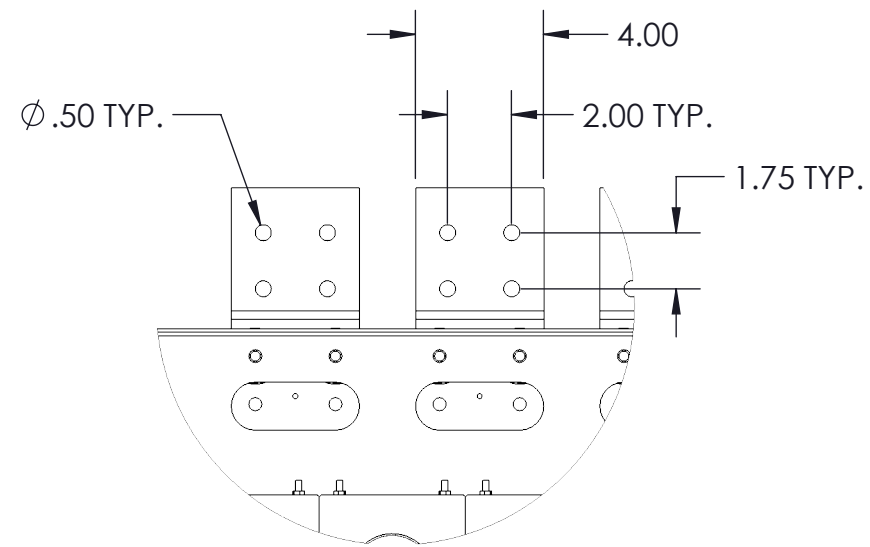
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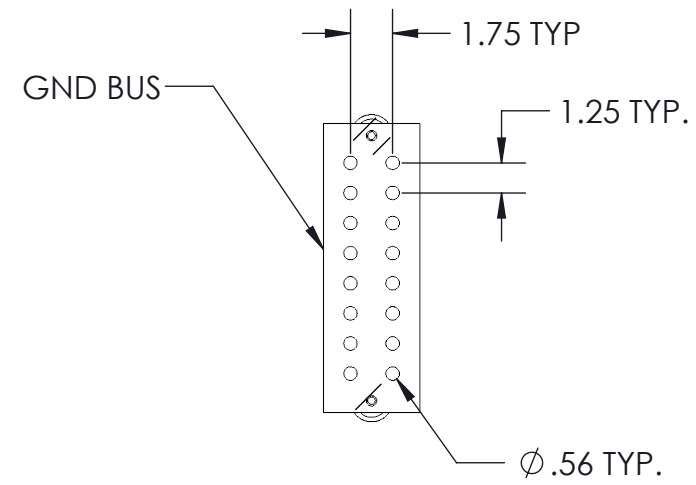
DETAIL C  
SCALE 1 : 12



SECTION D-D  
SCALE 1 : 12



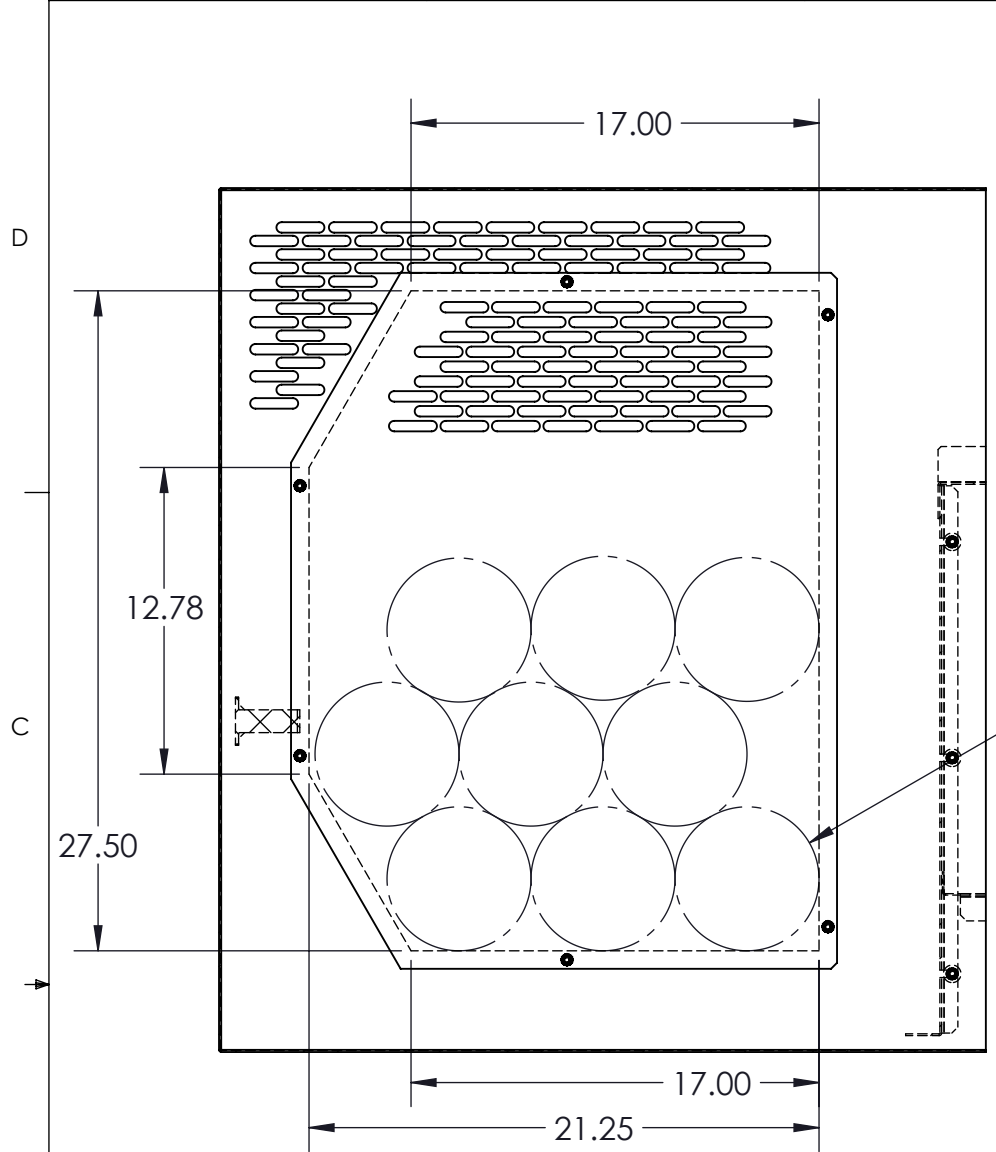
DETAIL E  
SCALE 1 : 6



SECTION F-F  
SCALE 1 : 8

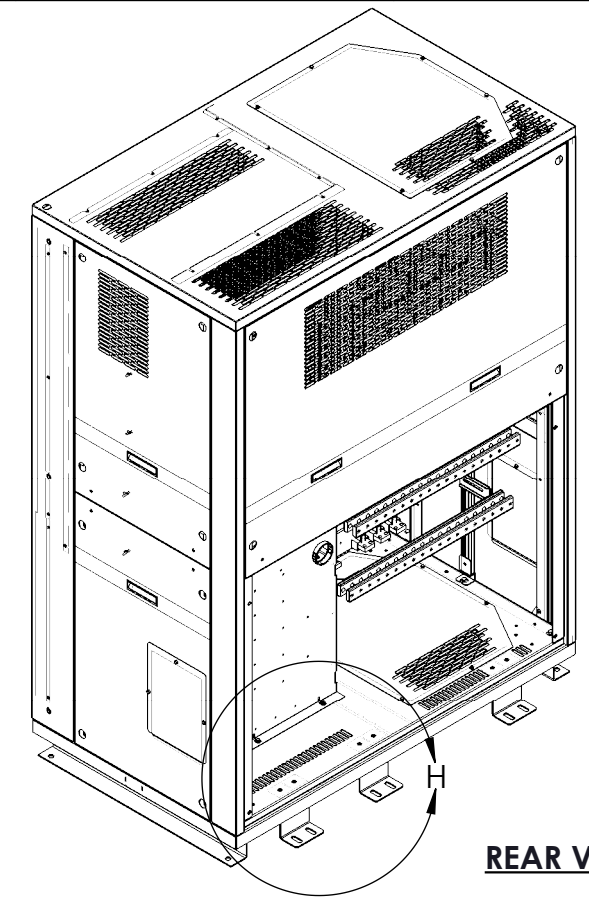
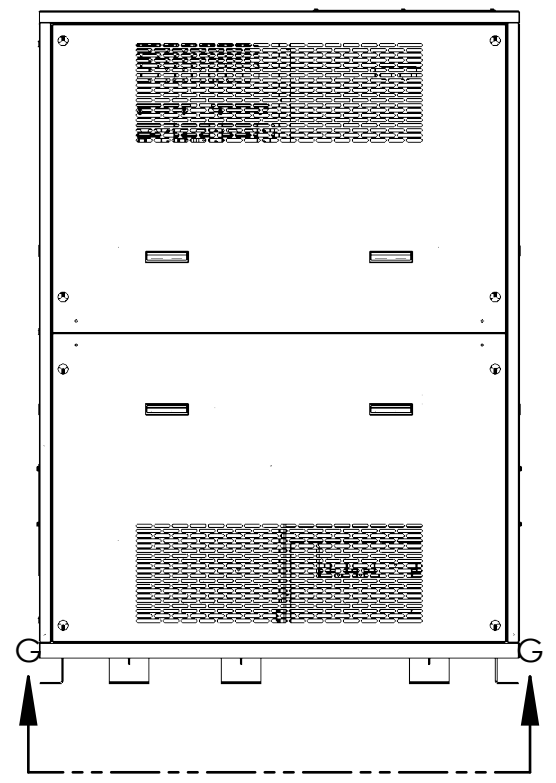
SIZE <b>B</b>	DWG. NO. <b>STS68563</b>	REV <b>A</b>
SCALE: NTS		SHEET 2 OF 5

8 7 6 5 4 3 2 1



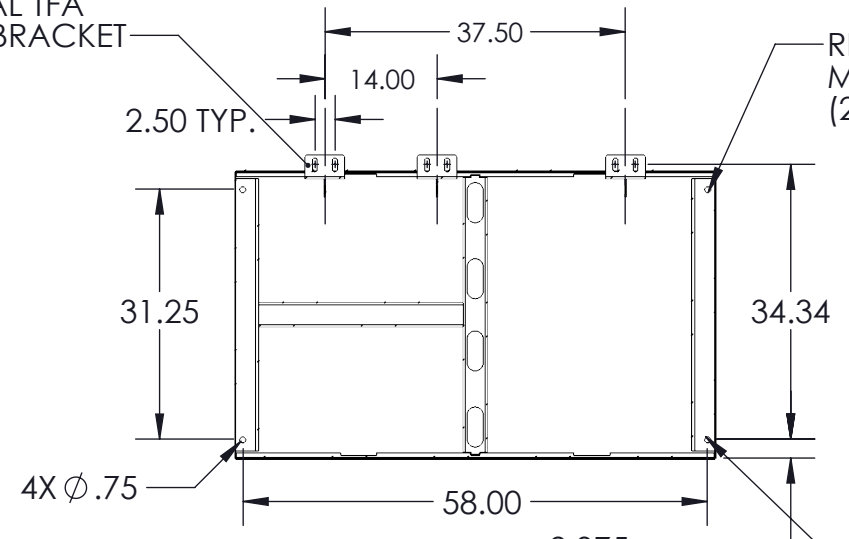
SECTION B-B  
SCALE 1 : 8  
**TOP KNOCK-OUT AREA**

Ø 6.0  
4" CONDUIT SPACE



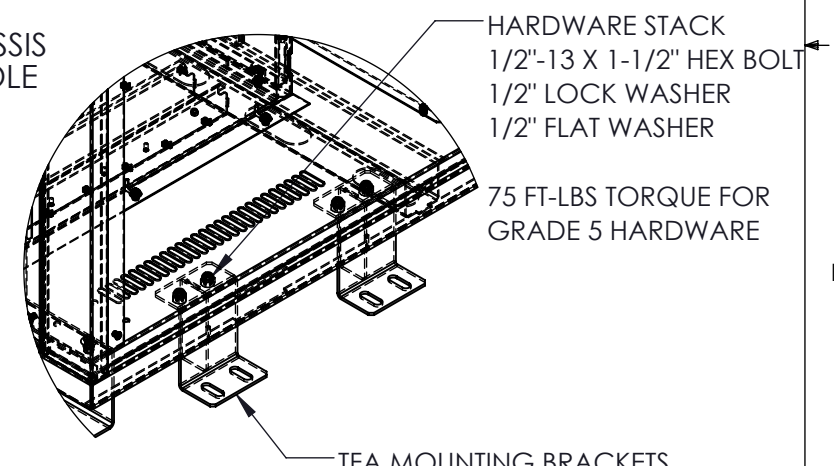
**REAR VIEW**

OPTIONAL TFA  
MOUNT BRACKET  
(3X)



SECTION G-G  
SCALE 1 : 24

REAR CHASSIS  
MOUNT HOLE  
(2X)



DETAIL H  
SCALE 1 : 12

HARDWARE STACK  
1/2"-13 X 1-1/2" HEX BOLT  
1/2" LOCK WASHER  
1/2" FLAT WASHER

75 FT-LBS TORQUE FOR  
GRADE 5 HARDWARE

TFA MOUNTING BRACKETS

MOUNT BRACKETS  
PRIOR TO PLACING UNIT

FRONT CHASSIS  
MOUNT HOLE  
(2X)

**OPTIONAL TFA MOUNTING BRACKET  
BOTH SIDE ACCESS REQUIRES FOR  
TOP ENTRY AND EXIT CONFIGURATION**

CONDUCTOR RECOMMENDATION:

CONDUCTOR BASED ON 90DEG C CABLE AT 40DEG C AMBIENT TEMPERTURE  
REFER TO UL, NEC OR AUTHORITY HAVING JURISDICTION (AHJ) FOR  
APPROPRIATE CONDUCTOR SIZE.

STS AMPERAGE	CU CONDUCTOR PER PHASE	MIN. # OF CONDUIT	AL CONDUCTOR PER PHASE	MIN. # OF CONDUIT
800A	2-600 MCM	3	3-400 MCM	5
	3-300 MCM	3		
	4-3/0 AWG	2		
1000A	3-400 MCM	3	3-600 MCM	9
	4-250 MCM	3	4-350 MCM	6
1200A	3-600 MCM	5	4-500 MCM	6
	4-350 MCM	4		

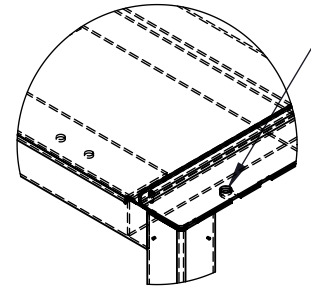
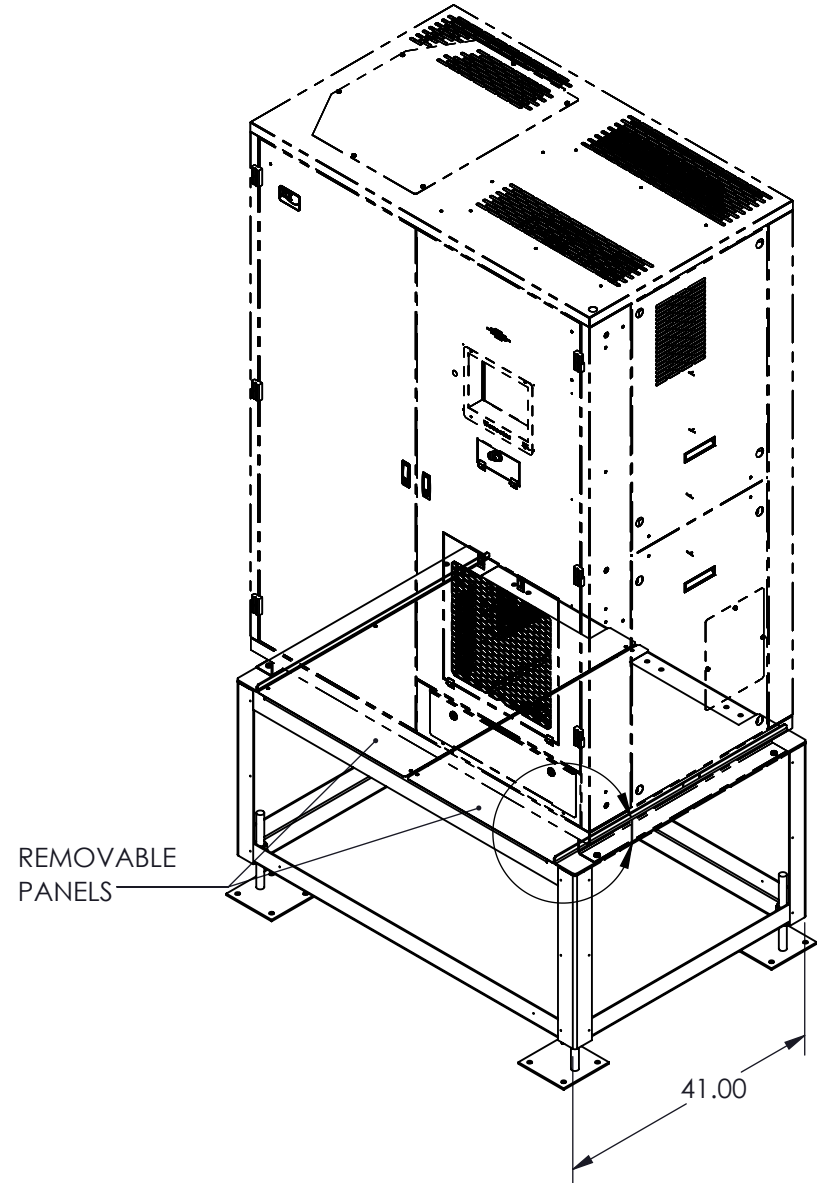
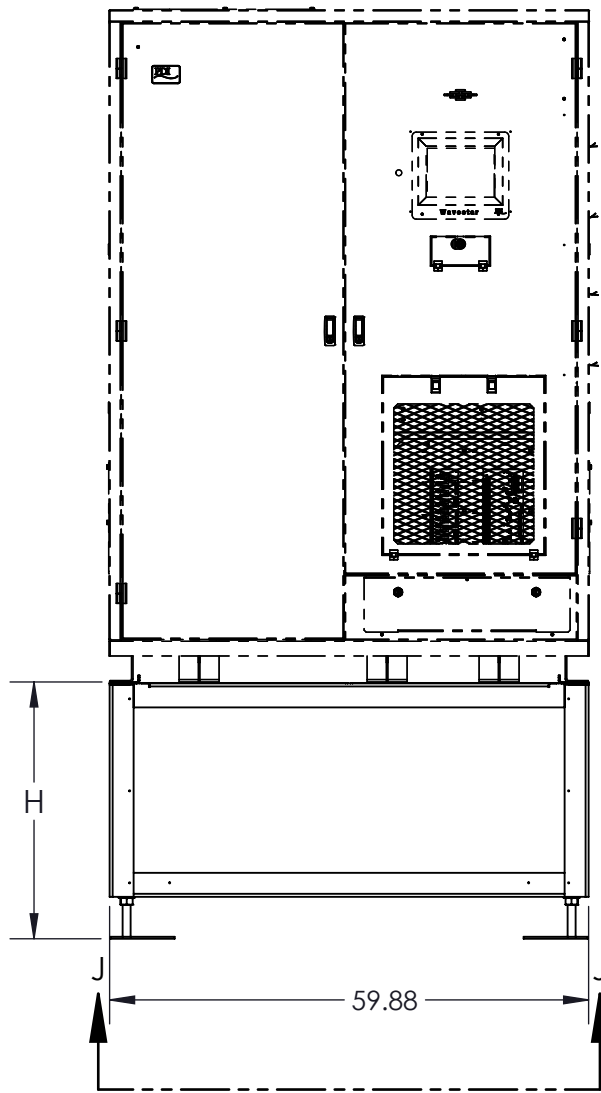
SIZE <b>B</b>	DWG. NO. <b>STS68563</b>	REV <b>A</b>
SCALE: NTS		SHEET 3 OF 5

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

D  
C  
B  
A

D  
C  
B  
A

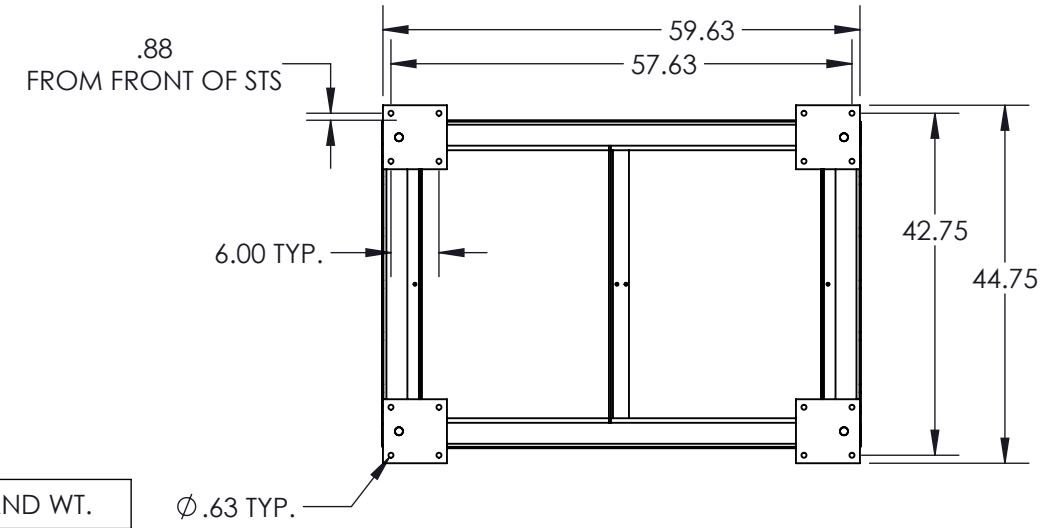


HARDWARE STACK  
 1/2"-13 X 1-1/2" HEX BOLT  
 1/2" FLAT WASHER  
 STS AND FLOOR STAND  
 1/2" FLAT WASHER  
 1/2" LOCK WASHER  
 1/2"-13 HEX NUT

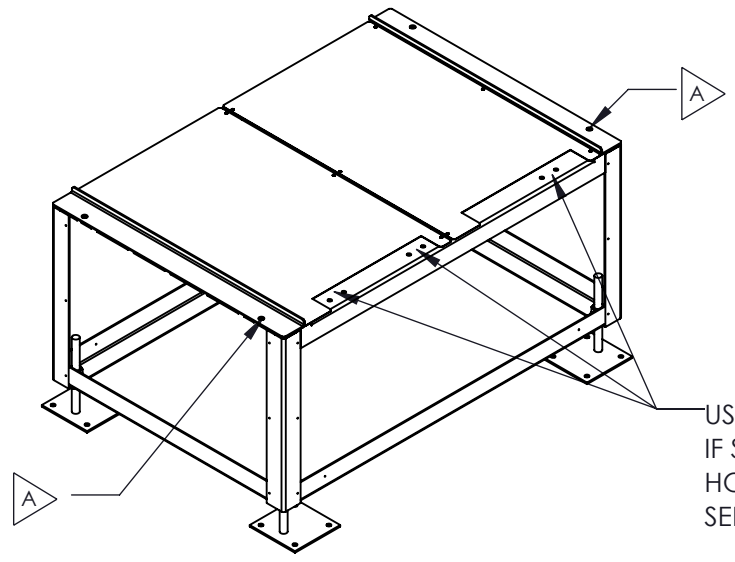
APPLY ON ALL 4 CORNERS

75 FT-LBS TORQUE FOR  
 GRADE 5 HARDWARE

DETAIL I  
 SCALE 1 : 12



SECTION J-J  
 SCALE 1 : 24



USE TFA MOUNTING BRACKETS  
 IF STS REAR MOUNTING  
 HOLES **A** ARE INACCESSIBLE  
 SEE SHEET 3 FOR MOUNTING DETAIL

**MACHINE  
 REAR**

PART NUMBER	H (ADJUSTABLE RANGE)	FLOOR STAND WT.
CHS66968-H16	12"-20"	175 LBS
CHS66968-H24	20"-28"	285 LBS
CHS66968-H32	28"-36"	290 LBS
CHS66968-H40	36"-44"	300 LBS
CHS66968-H48	44"-52"	310 LBS

SIZE <b>B</b>	DWG. NO. <b>STS68563</b>	REV <b>A</b>
SCALE: NTS	SHEET 4 OF 5	

8 7 6 5 4 3 2 1

8

7

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5

4

3

2

1

D

D

C

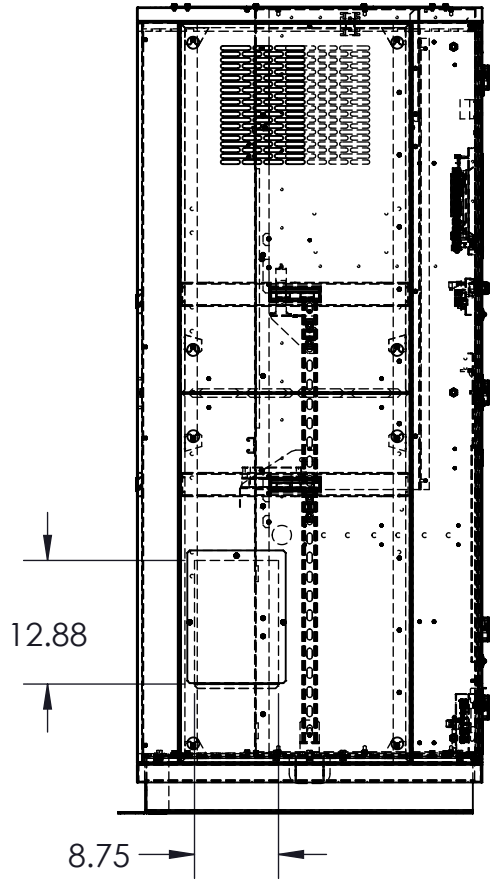
C

B

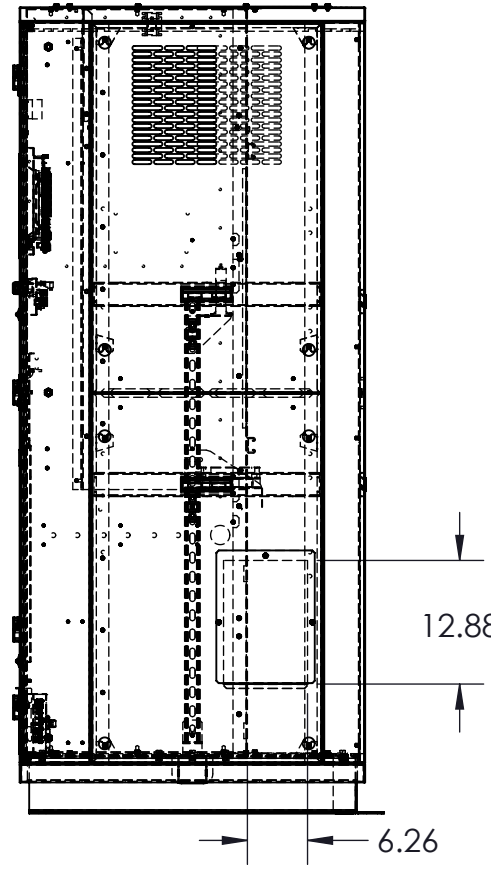
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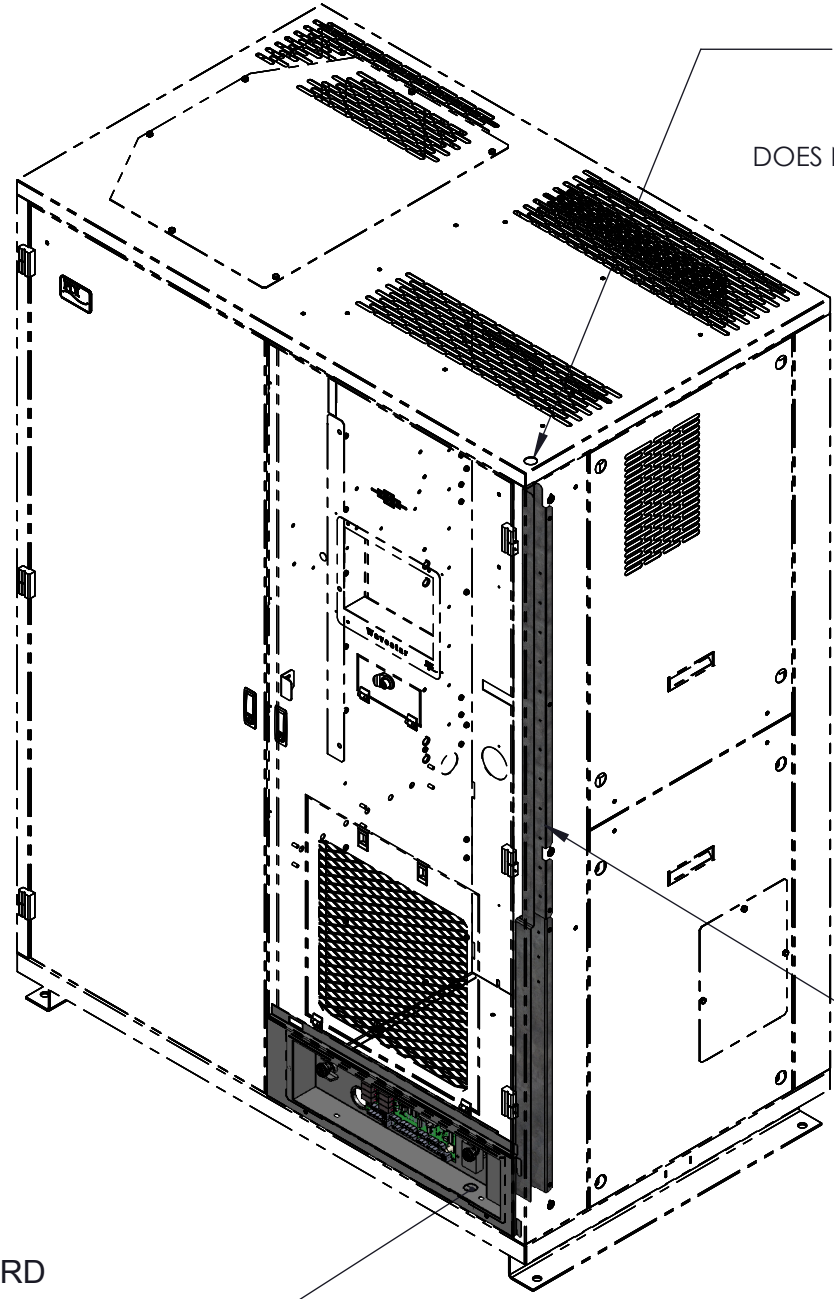
A



**AVAILABLE CABLE PASS THRU SPACE  
ON THE LEFT HAND SIDE OF SWITCH**



**AVAILABLE CABLE PASS THRU SPACE  
ON THE RIGHT HAND SIDE OF SWITCH**



Ø 1.094  
CONTRACTOR BOARD  
TOP CABLE FEED THRU HOLE  
REMOVE CONTRACTOR BOARD  
ACCESS PANEL  
FEED CABLE THRU  
DOES NOT REQUIRE OPENING FRONT DOORS

Ø 1.094  
CONTRACTOR BOARD  
BOTTOM CABLE FEED THRU HOLE

SIZE <b>B</b>	DWG. NO. <b>STS68563</b>	REV <b>A</b>
SCALE: NTS	SHEET 5 OF 5	

8

7

6

5

4

3

2

1