

BUS SIZING CABLE BUS SIZING  
**QUALITY CONTROL**  
CABLE BUS MODELLING

**CABLE BUS**  
**SAMPLE**  
**DRAWING**  
**PACKAGE.**

**SUPERIOR****BUS**<sup>TM</sup>



# THE INDUSTRY LEADER IN **CABLE BUS**

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# *SUPERIOR***BUS**<sup>TM</sup>

# Sample Drawing Package

**SuperiorBus<sup>TM</sup> is more than a highly efficient power distribution system. Our CSA and UL certified SuperiorBus<sup>TM</sup> is easy to install.**

Here at Superior Tray, our main goal is our customers' satisfaction. We listen to your requirements, help you design your system layout and provide a custom-engineered solution that makes the installation process easy and cost-effective.

A customized drawing package is sent with each SuperiorBus<sup>TM</sup> system. Each package will include engineering and layout drawings of the cable bus, cut sheets detailing the specifications and dimensions used in the system, along with the results of the FEA analysis of the particular system. In this sample drawing package, you will find an example of a SuperiorBus<sup>TM</sup> system.

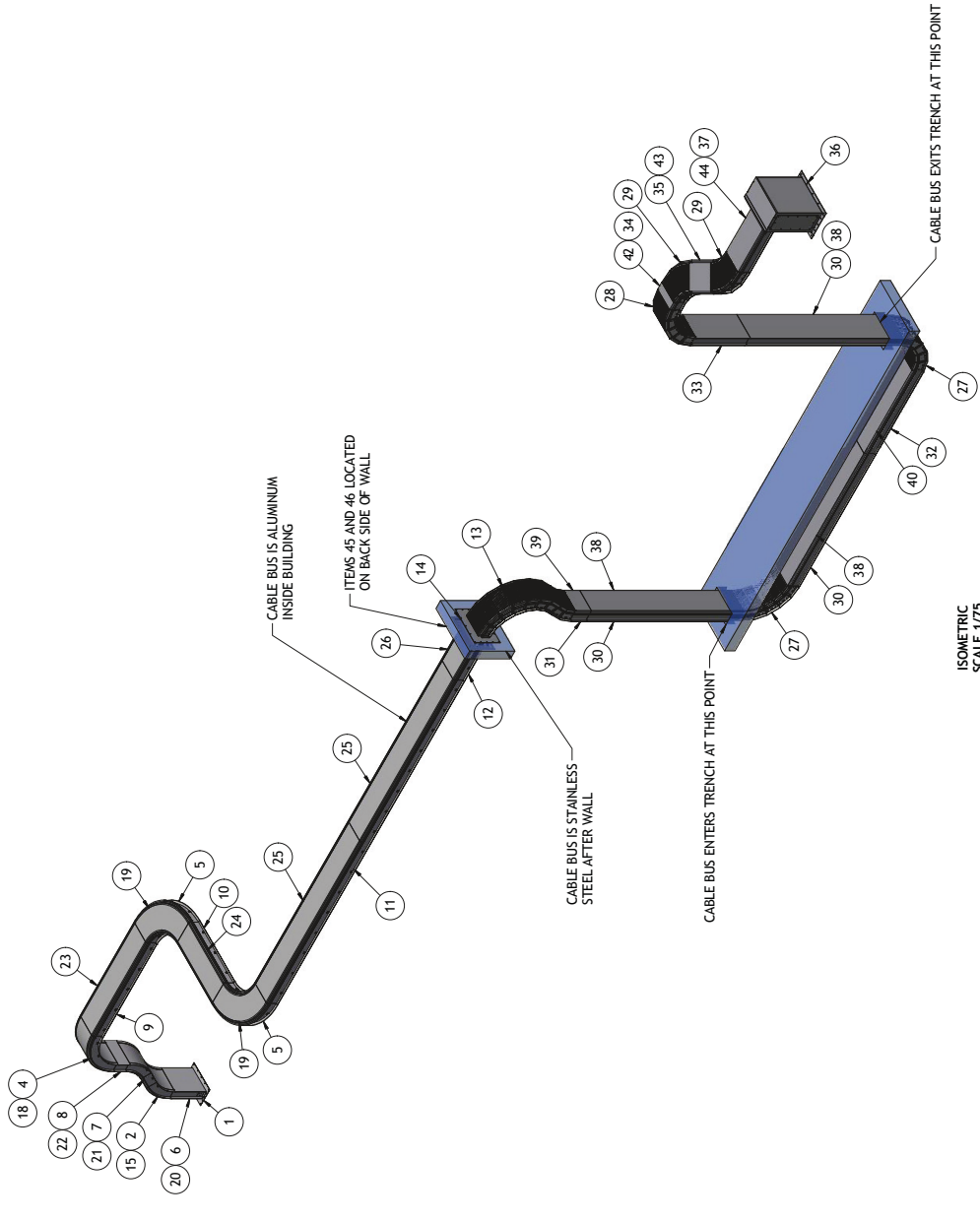
**FOR MORE INFORMATION, CONTACT US AT:**

Tel: 604.572.4419

Email: [info@superiortray.com](mailto:info@superiortray.com)

# *SUPERIOR***BUS**<sup>TM</sup>

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	DES-18-8-116	DRY EQUIPMENT SEAL
2	1	AXEV-VO-45-18-7.625-24	VERTICAL OUTSIDE CABLE BUS FITTING
3	1	AXEV-VI-45-18-7.625-24	VERTICAL INSIDE CABLE BUS FITTING
4	1	AXEV-VO-90-18-7.625-24	VERTICAL OUTSIDE CABLE BUS FITTING
5	2	AXEV-H-90-18-7.625-24	HORIZONTAL FITTING
6	1	AXEV-18-7.625-24.23	CABLE BUS SECTION 24.23"
7	1	AXEV-18-7.625-11.574	CABLE BUS SECTION 11.574"
8	1	AXEV-18-7.625-9.34	CABLE BUS SECTION 9.34"
9	1	AXEV-18-7.625-83.188	CABLE BUS SECTION 83.188"
10	1	AXEV-18-7.625-54	CABLE BUS SECTION 54"
11	1	AXEV-18-7.625-288	CABLE BUS SECTION 288"
12	1	AXEV-18-7.625-38.75	CABLE BUS SECTION 38.75"
13	2	CBSS6-VO-90D-18-8-24R-SN	SS VERTICAL SWANNECK FITTING
14	1	DWSF-18-8-116-SS	DRY WALL SEAL WITH FIRESTOP - STAINLESS
15	1	AXEV-VO-45-18-7.625-24-C	ASSEMBLED VERTICAL OUTSIDE FITTING COVER
17	1	AXEV-VI-45-18-7.625-24-C	VERTICAL INSIDE FITTING COVER
18	1	AXEV-VO-90-18-7.625-24-C	ASSEMBLED VERTICAL OUTSIDE FITTING COVER
19	2	AXEV-H-90-18-7.625-C	HORIZONTAL FITTING COVER
20	1	AXEV-18-7.625-24.23-C	STRAIGHT SECTION COVER
21	1	AXEV-18-7.625-11.574-C	STRAIGHT SECTION COVER
22	1	AXEV-18-7.625-9.34-C	STRAIGHT SECTION COVER
23	1	AXEV-18-7.625-83.187-C	STRAIGHT SECTION COVER
24	1	AXEV-18-7.625-54-C	STRAIGHT SECTION COVER
25	2	AXEV-18-7.625-38.75-C	STRAIGHT SECTION COVER
26	1	AXEV-18-7.625-144-C	STRAIGHT SECTION COVER
27	2	CBSS6-VI-90D-18-8-24R	SS VERTICAL INSIDE FITTING
28	1	CBSS6-VO-90D-18-8-24R	SS VERTICAL OUTSIDE FITTING
29	2	CBSS6-HO-45D-18-8-24R	SS HORIZONTAL FITTING
30	3	CBSS6-18-8-118	SS CABLE BUS SECTION 118" [2997]
31	1	CBSS6-18-8-12.296	SS CABLE BUS SECTION 12.296" [312]
32	1	CBSS6-18-8-74	SS CABLE BUS SECTION 74" [1880]
33	1	CBSS6-18-8-41.948	SS CABLE BUS SECTION 41.948" [1065]
34	1	CBSS6-18-8-6.405	SS CABLE BUS SECTION 6.405" [163]
35	1	CBSS6-18-8-23.405	SS CABLE BUS SECTION 23.405" [594]
36	1	XXXX-40-00	SS TRANSFORMER ENCLOSURE
37	1	CBSS6-18-8-42.391	SS CABLE BUS SECTION 42.391" [1077]
38	3	CBSS6-18-8-118-C	SS STRAIGHT SECTION COVER
39	1	CBSS6-18-8-12.296-C	SS STRAIGHT SECTION COVER
40	1	CBSS6-18-8-74-C	SS STRAIGHT SECTION COVER
41	1	CBSS6-18-8-41.948-C	SS STRAIGHT SECTION COVER
42	1	CBSS6-18-8-6.405-C	SS STRAIGHT SECTION COVER
43	1	CBSS6-18-8-23.405-C	SS STRAIGHT SECTION COVER
44	1	CBSS6-18-8-42.391-C	SS STRAIGHT SECTION COVER
45	1	WS-BPR-18-8-1	BACKING PLATE
46	1	WS-BPL-18-8-1	BACKING PLATE



PROJECT	SAMPLE	SHEET	1 / 4
TITLE	CABLE BUS LAYOUT	W.O.	XXXX
PART NO.	XXXX-01-00	DESIGNED	DATE
DRAWN	K. LINES	CHECKED	J. COX
APPROVED	J. COX		

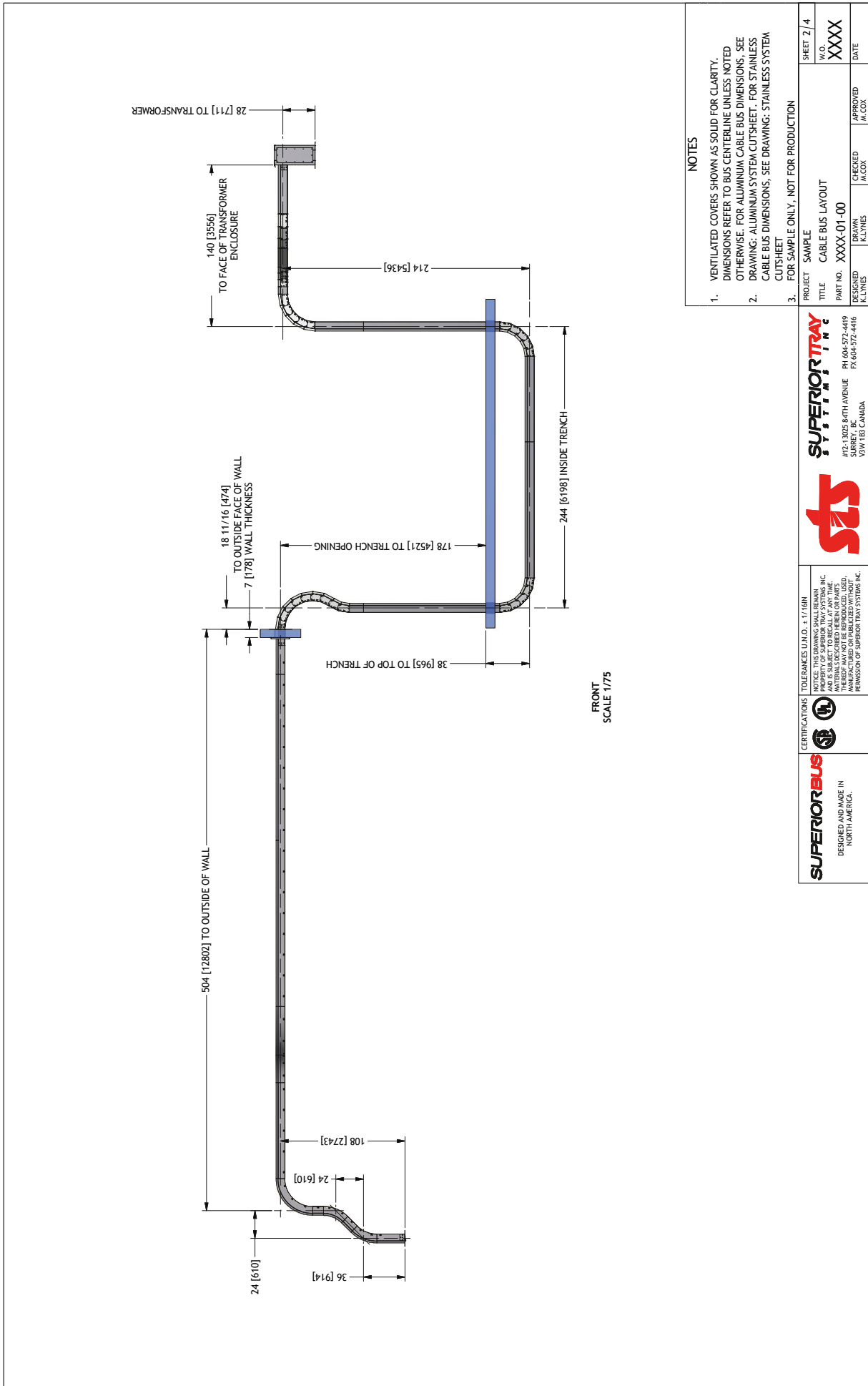
- NOTES**
- VENTILATED COVERS SHOWN AS SOLID FOR CLARITY. CABLE BUS COMPONENTS NOT LABELED AS STAINLESS ARE ALUMINIUM
  - FOR SAMPLE ONLY, NOT FOR PRODUCTION

**SUPERIOR TRAY SYSTEMS INC.**  
 #12, 3025 84TH AVENUE PH 604-572-4419  
 SURREY, BC V3R 6Y4 FX 604-572-4416  
 WWW.SUPERIORTRAY.COM



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2. FOR SAMPLE ONLY, NOT FOR PRODUCTION

PROJECT	SAMPLE	SHEET	2 / 4
TITLE	CABLE BUS LAYOUT	W.O.	XXXX
PART NO.	XXXX-01-00	DRAWN	K.LYNES
DESIGNED	K.LYNES	CHECKED	M.COX
		APPROVED	M.COX
		DATE	

**SUPERIOR TRAY SYSTEMS INC.**

**sts**

#12-1305 84TH AVENUE PH 604-572-4419  
SURREY, BC FX 604-572-4416  
V1W 1B1 CANADA

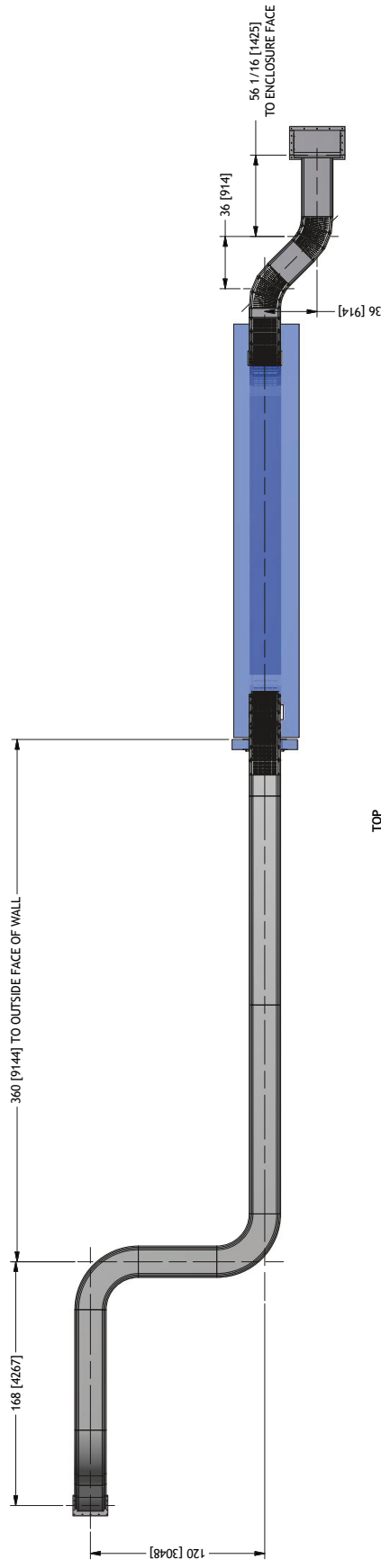
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TOP  
SCALE 1/75

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2. FOR SAMPLE ONLY, NOT FOR PRODUCTION

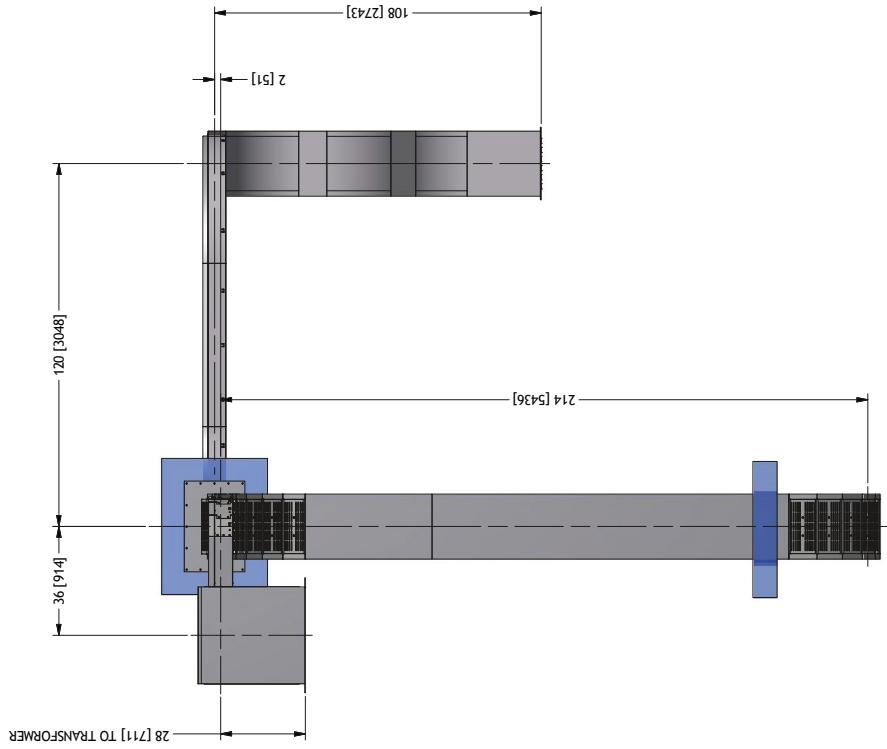
PROJECT	SAMPLE	SHEET	3 / 4
TITLE	CABLE BUS LAYOUT	W.O.	XXXX
PART NO.	XXXX-01-00	DESIGNED	K.LYNES
		DRAWN	K.LYNES
		CHECKED	M.COX
		APPROVED	M.COX
		DATE	

**SUPERIOR TRAY**  
SYSTEMS INC.  
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SURREY, BC FX 604-572-4416  
V3W 1B3 CANADA



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SIDE  
SCALE 1/40

NOTES

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2. FOR SAMPLE ONLY, NOT FOR PRODUCTION

PROJECT	SAMPLE	SHEET	4 / 4
TITLE	CABLE BUS LAYOUT	W.O.	XXXX
PART NO.	XXXX-01-00	DATE	
DESIGNED	K.LYNES	CHECKED	M.COX
DRAWN	K.LYNES	APPROVED	M.COX

**SUPERIOR TRAY**  
SYSTEMS INC.

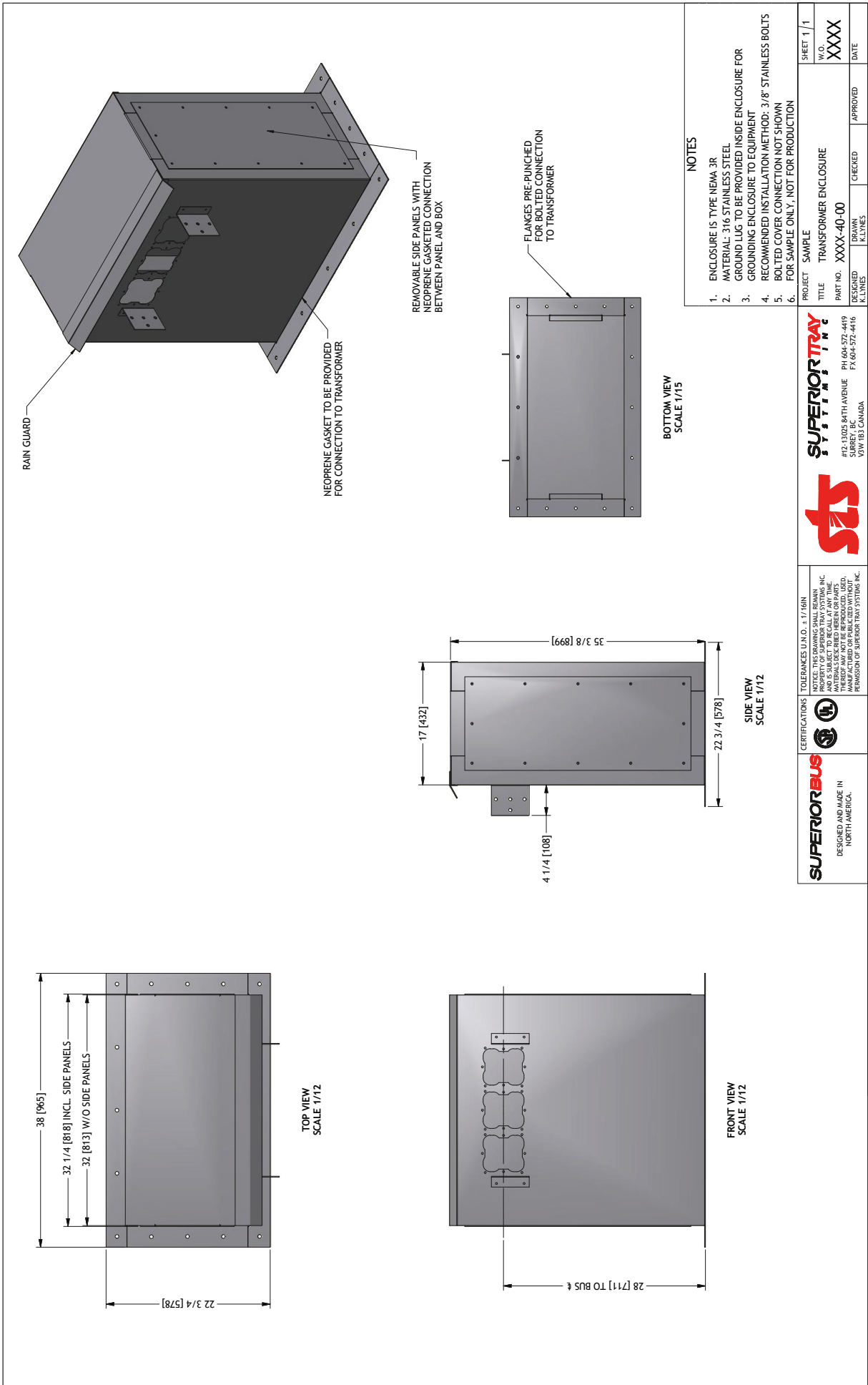
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**sts**

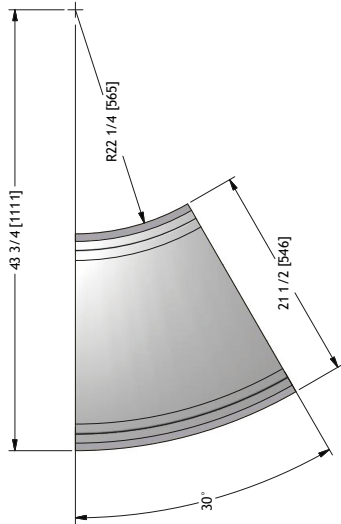
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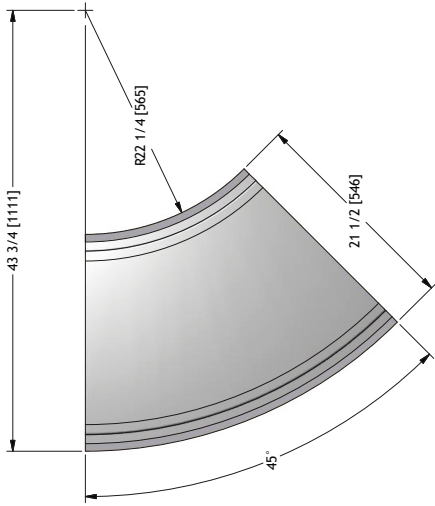
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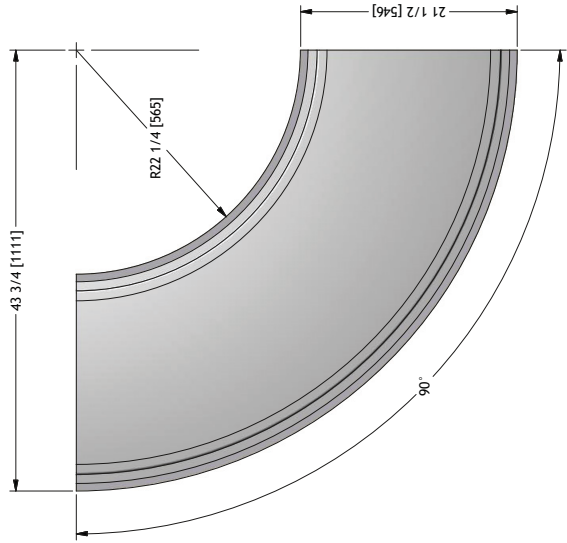




AXEV-H-30-18-7.625-24  
SCALE 1/12



AXEV-H-45-18-7.625-24  
SCALE 1/12



AXEV-H-90-18-7.625-24  
SCALE 1/12

NOTES

1. VENTILATED COVERS SHOWN AS SOLID FOR CLARITY.
2. DIMENSIONS IN INCHES [mm]

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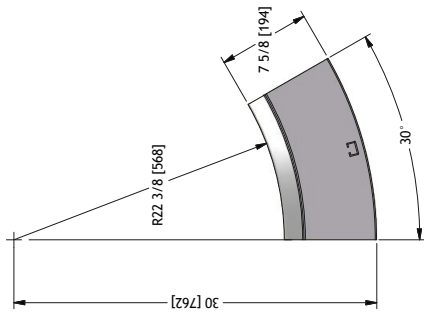
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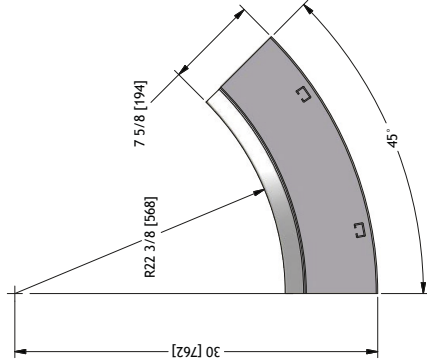


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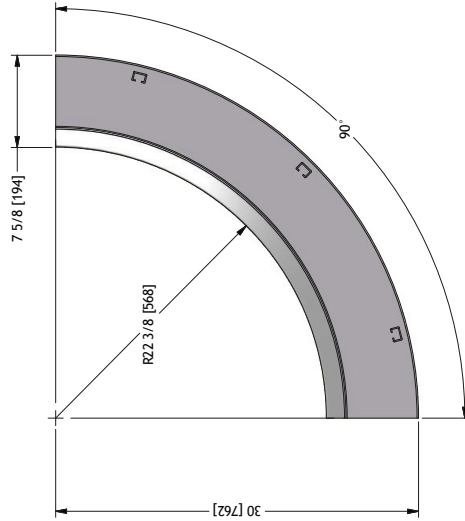
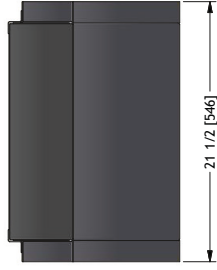
PROJECT	STANDARD FITTINGS 18-7.625 SYSTEM	SHEET	1 / 1
TITLE	STANDARD 24" RADIUS HORIZONTAL FITTINGS	W.O.	N/A
PART NO.	SEE VIEW LABELS FOR PART NUMBER	DESIGNED	DATE
DESIGNED K.LINES	DRAWN K.LINES	CHECKED	APPROVED



AXEV-VI-30-18-7.625-24  
SCALE 1/10



AXEV-VI-45-18-7.625-24  
SCALE 1/10



AXEV-VI-90-18-7.625-24  
SCALE 1/10





**NOTES**

- VENTILATED COVERS SHOWN AS SOLID FOR CLARITY.
- DIMENSIONS IN INCHES [mm]

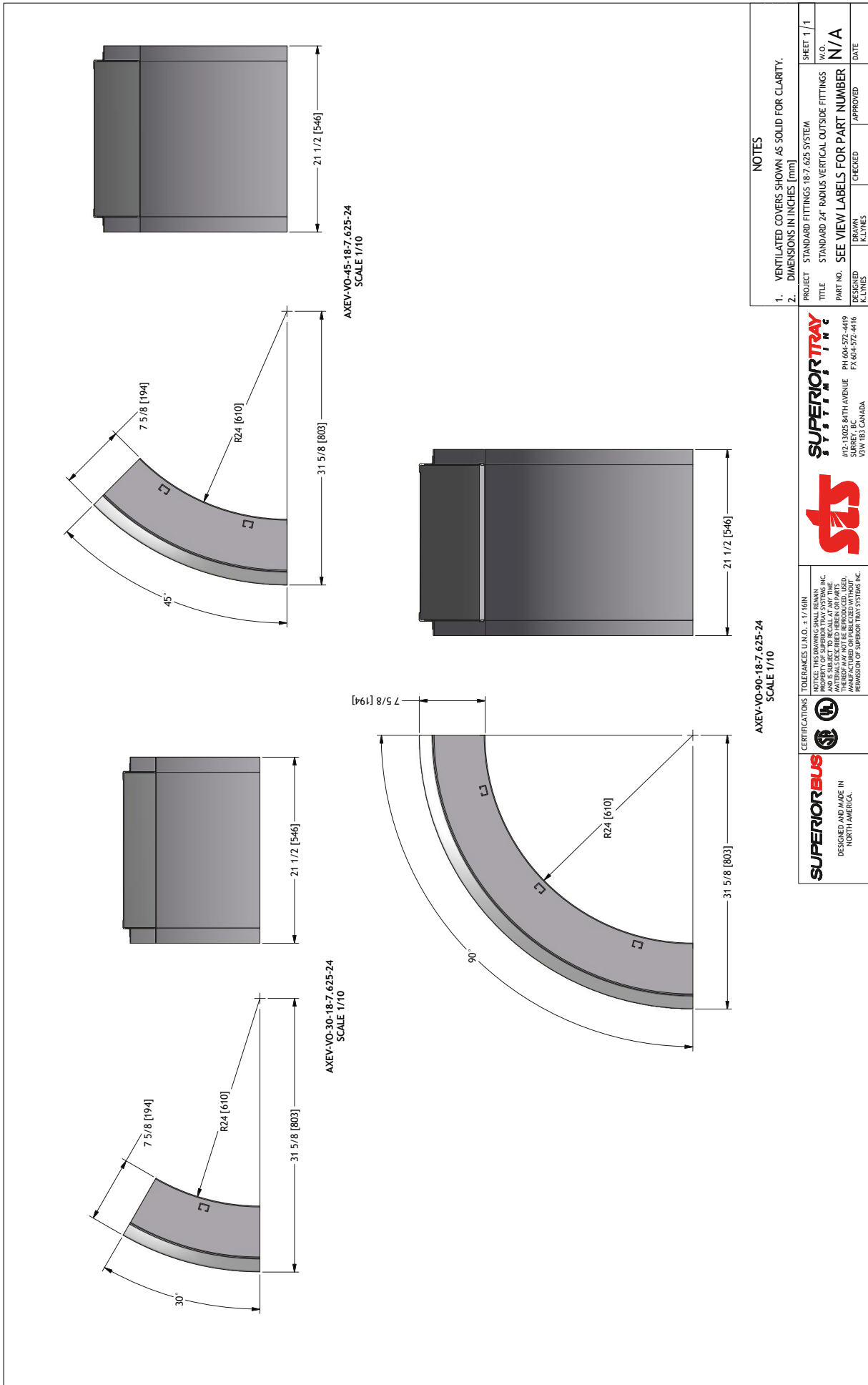
PROJECT	STANDARD FITTINGS 18-7.625 SYSTEM	SHEET	1 / 1
TITLE	STANDARD 24" RADIUS VERTICAL INSIDE FITTINGS	W.O.	N/A
PART NO.	SEE VIEW LABELS FOR PART NUMBER	DESIGNED	DATE
		DRAWN	APPROVED
		K.LINES	CHECKED

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 VAW 1B3 CANADA



**NOTES**

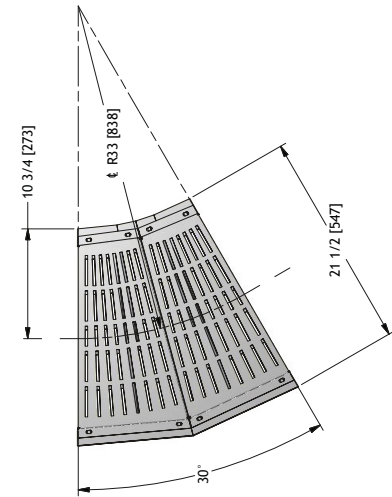
- VENTILATED COVERS SHOWN AS SOLID FOR CLARITY.
- DIMENSIONS IN INCHES [mm]

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TITLE	STANDARD 24" RADIUS VERTICAL OUTSIDE FITTINGS	W.O.	N/A
PART NO.	SEE VIEW LABELS FOR PART NUMBER	DESIGNED	K.LYNES
		CHECKED	
		DRAWN	K.LYNES
		APPROVED	
		DATE	

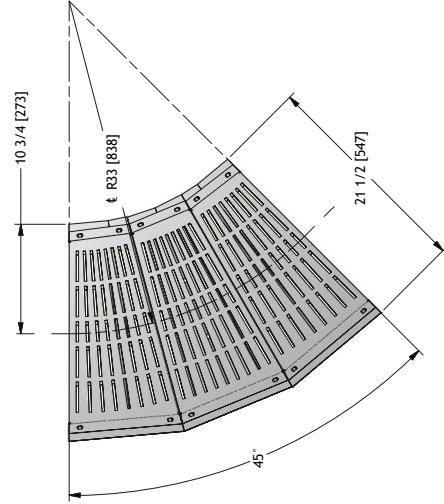
**STBS**  
**SUPERIOR TRAY**  
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 SURREY, BC FX 604-572-4416  
 VAN VUB CANADA

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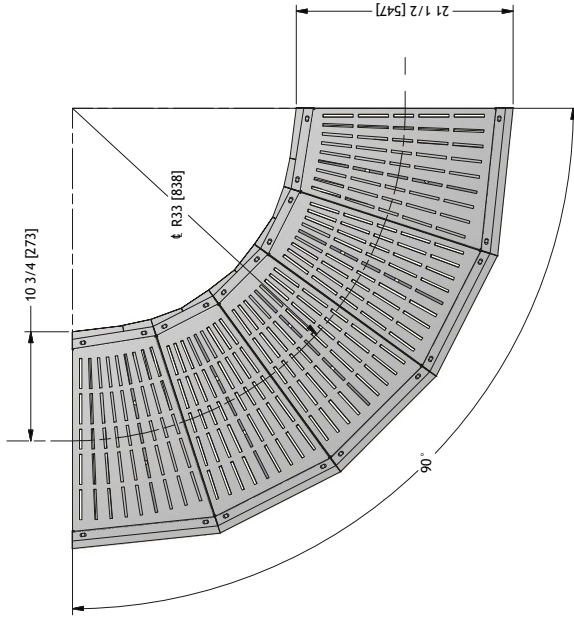
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CBSS6-HO-30D-18-8-24R  
SCALE 1/12



CBSS6-HO-45D-18-8-24R  
SCALE 1/12

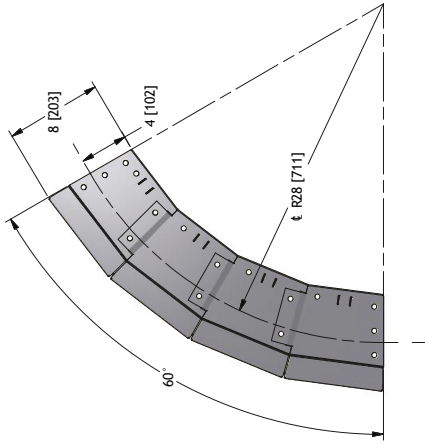


CBSS6-HO-90D-18-8-24R  
SCALE 1/12

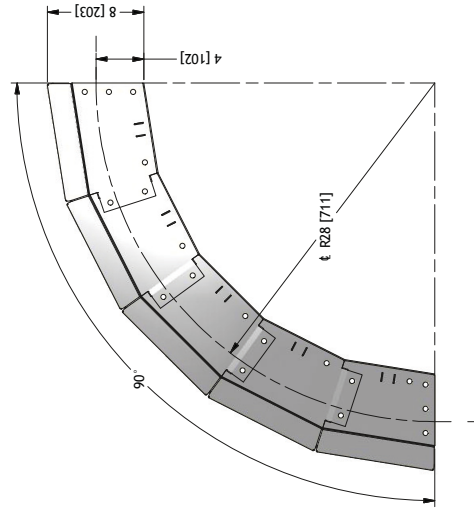
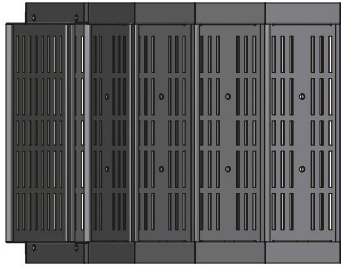
### NOTES

1. ALL METALLIC PARTS ARE 316 STAINLESS STEEL
2. ALL DIMENSIONS IN INCHES [mm]

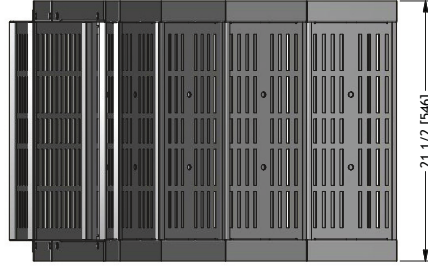
<b>SUPERIORBUS</b> DESIGNED AND MADE IN NORTH AMERICA.	CERTIFICATIONS 	<b>SUPERIORTRAY</b> #12-13025 84TH AVENUE PH 604-572-4619 SURREY, BC FX 604-572-4416 VAN WJ CANADA	PROJECT STANDARD FITTINGS 18-8 STAINLESS SYSTEM	SHEET 1 / 1
			TITLE SS HORIZONTAL FITTING	W.O. N/A
PART NO. SEE VIEW LABELS FOR PART NUMBER		DESIGNED T. NGUYEN	DRAWN K. LYNES	CHECKED APPROVED DATE



CBS56-VO-60D-18-8-24R  
SCALE 1/10



CBS56-VO-90D-18-8-24R  
SCALE 1/10



NOTES

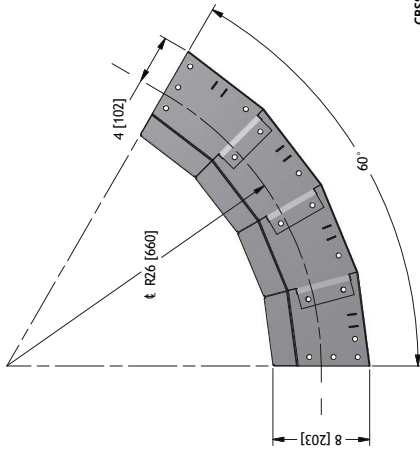
1. ALL METALLIC PARTS ARE 316 STAINLESS STEEL
2. ALL DIMENSIONS IN INCHES [mm]

PROJECT	STANDARD FITTINGS 18-8 STAINLESS SYSTEM	SHEET	1 / 1
TITLE	SS VERTICAL OUTSIDE FITTING	W.O.	N/A
PART NO.	SEE VIEW LABELS FOR PART NUMBER	DESIGNED	DATE
S. JUNE		DRAWN	APPROVED
		K. LINES	

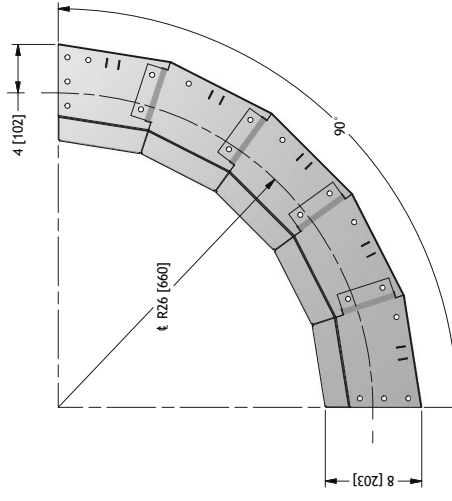
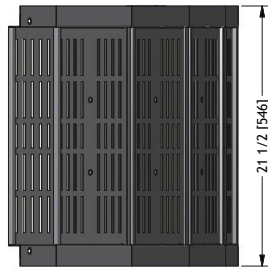
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 VAW 1B3 CANADA

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CBS56-VI-60D-18-8-24R  
SCALE 1/10



CBS56-VI-90D-18-8-24R  
SCALE 1/10



### NOTES

1. ALL METALLIC PARTS ARE 316 STAINLESS STEEL
2. ALL DIMENSIONS IN INCHES [mm]

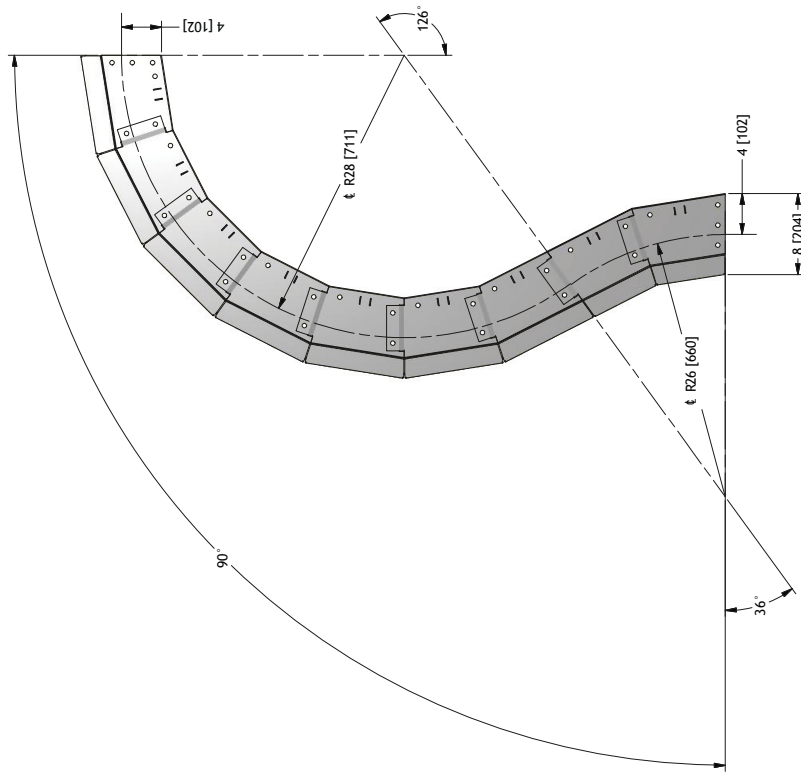
PROJECT	STANDARD FITTINGS 18-8 STAINLESS SYSTEM	SHEET 1 / 1
TITLE	SS VERTICAL INSIDE FITTING	W.O.
PART NO.	SEE VIEW LABELS FOR PART NUMBER	N/A
DESIGNED	T. NGUYEN	CHECKED
DRAWN	K. LYNES	APPROVED
		DATE

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SURREY, BC FX 604-572-4416  
VAN 1B3 CANADA



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- NOTES**
1. ALL METALLIC PARTS ARE 316 STAINLESS STEEL
  2. ALL DIMENSIONS IN INCHES [mm]

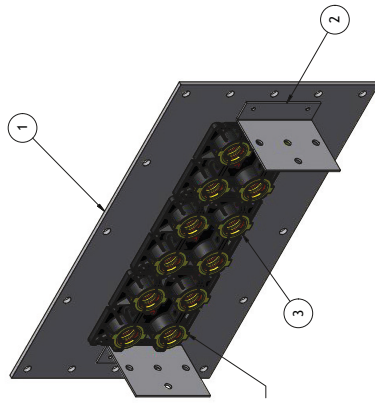
PROJECT	SAMPLE	SHEET	1 / 1
TITLE	SS VERTICAL SWAN NECK FITTING	W/O.	XXXX
PART NO.	CBS56-VO-90D-18-8-24R-SN	DESIGNED	APPROVED
		DRAWN	DATE
		K/LINES	
		CHECKED	

**STBS**  
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 SURREY, BC V3W 1B3 CANADA FX 604.572.4416

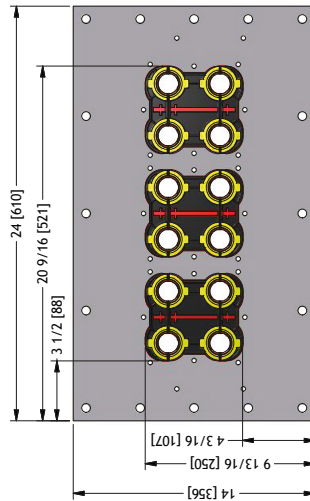
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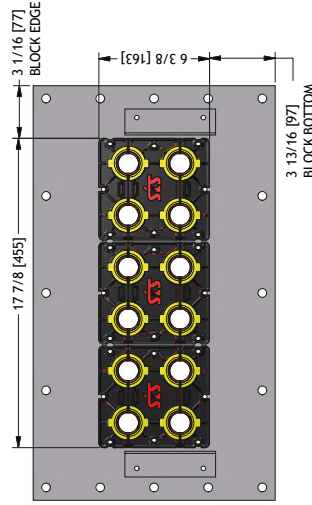
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	DES-PLT-18-8	DRY EQUIPMENT SEAL PLATE FOR 18X8 BUS
2	2	WS-STUB-BEND	SEAL STUB
3	3	DSB-ASM-2-116	DRY SEAL BLOCK 2X2



ISOMETRIC  
SCALE 1 / 7



FRONT  
SCALE 1 / 7



BACK  
SCALE 1 / 7

SIDE  
SCALE 1 / 7

- NOTES
- ALL FABRICATED METALLIC PARTS ARE ALUMINUM
  - DIMENSIONS ARE IN INCHES [mm]
  - RECOMMENDED INSTALL METHOD: 3/8" STAINLESS BOLTS WITH BUTYL SEALANT OR RUBBER GASKET INTERFACE BETWEEN EQUIPMENT AND PLATE

**SUPERIORBUS**  
DESIGNED AND MADE IN NORTH AMERICA.

CERTIFICATIONS

TOLERANCES UNLESS OTHERWISE SPECIFIED:  
 ± 1/16 IN  
 ± 0.5 MM  
 DIMENSIONS ARE IN INCHES [mm]  
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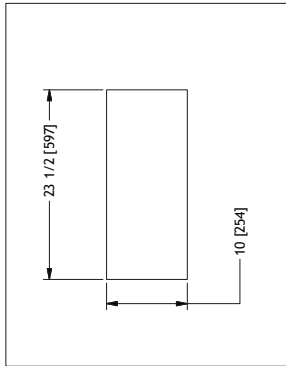
**sts**  
**SUPERIOR TRAY SYSTEMS INC.**  
 #12-13025 BATH AVENUE PH 604-572-4419  
 SURREY, BC V4W 1B3 CANADA FX 604-572-4416

PROJECT	STANDARD DRY EQUIPMENT SEAL	SHEET 1 / 1
TITLE	DRY EQUIPMENT SEAL 18 X 8 SYSTEM	W.O.
PART NO.	DES-18-8-116	N/A
DESIGNED	J.A. COX	DATE
CHECKED	K. MELNIKOVA	APPROVED

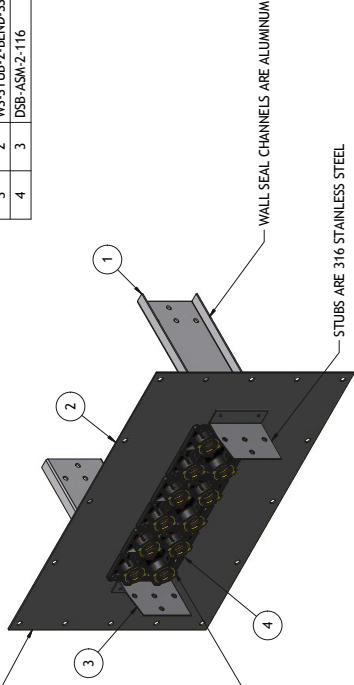


ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	WS-CNL-2-BEND-14	WALL SEAL CHANNEL
2	1	DWS-PLT-18-8-SS	STAINLESS DRY WALL SEAL PLATE FOR 18X8 BUS
3	2	WS-STUB-2-BEND-SS	STAINLESS SEAL STUB
4	3	DSB-ASM-2-116	DRY SEAL BLOCK 2X2

WALL PLATE IS 316 STAINLESS STEEL

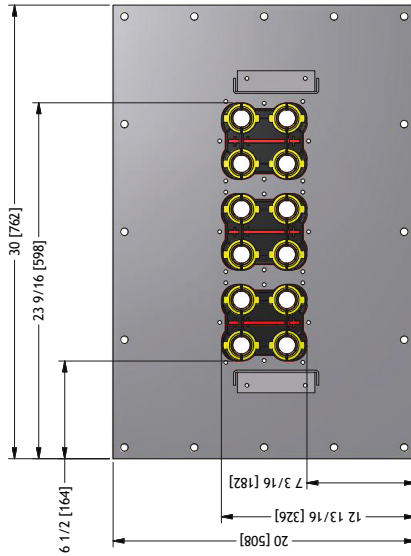


RECOMMENDED WALL CUTOUT  
SCALE 1/15



ISOMETRIC  
SCALE 1/10

GUIDE MAY CHANGE DEPENDING ON ACTUAL CABLE DIAMETER

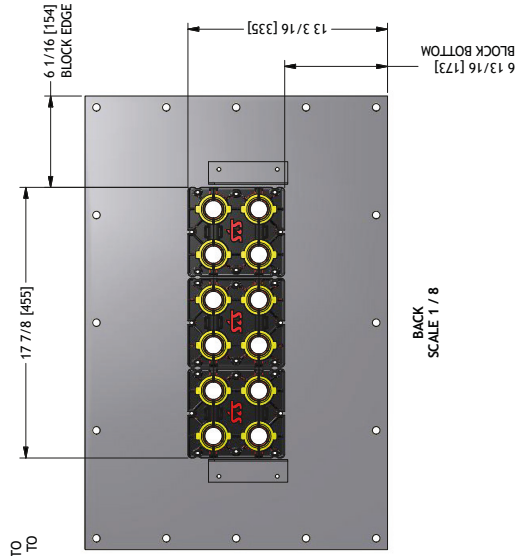


FRONT  
SCALE 1/8

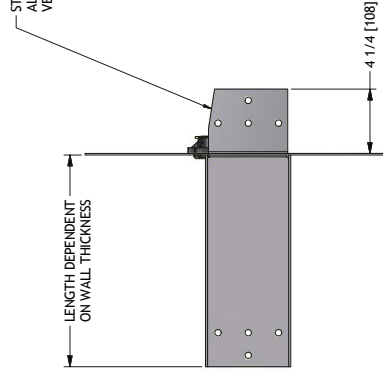
- NOTES**
1. WALL PLATE AND STUBS ARE 316 STAINLESS STEEL, WALL CHANNELS ARE ALUMINUM
  2. ALL HARDWARE IS 316 STAINLESS STEEL
  3. DIMENSIONS ARE IN INCHES [mm]
  4. FOR FIRESTOP WALL/FLOOR SEAL INSTALLATION SEE DRAWINGS: DRY WALL/FLOOR SEAL FIRESTOP 18 X 8 SYSTEM AND FIRESTOP PILLOW INSTALLATION
  5. RECOMMENDED INSTALL METHOD: 3/8" CONCRETE ANCHORS WITH BUTYL SEALANT OR RUBBER GASKET INTERFACE BETWEEN WALL AND PLATE
  6. DRY SEAL DOES NOT REQUIRE SILICONE OR BUTYL SEALANT ON SEAL BLOCKS OR AROUND CABLES DURING INSTALLATION

STUBS ARE TRIMMED TO ALLOW ATTACHMENT TO VERTICAL FITTING

LENGTH DEPENDENT ON WALL THICKNESS



BACK  
SCALE 1/8



SIDE  
SCALE 1/8

<p>DESIGNED AND MADE IN NORTH AMERICA.</p>	<p>CERTIFICATIONS</p>	<p>NOTICE: THIS DRAWING SHALL REMAIN THE PROPERTY OF SUPERIOR TRAY SYSTEMS, INC. AND IS SUBJECT TO RECALL AT ANY TIME. ANY REVISIONS SHALL BE REVISIONS OF THIS DRAWING AND NOT THE ORIGINAL PARTS. MANUFACTURED OR PUBLISHED WITHOUT PERMISSION OF SUPERIOR TRAY SYSTEMS, INC.</p>	<p>#3, 13025 84TH AVENUE SURREY, BC V4W 1B3 CANADA</p>	<p>PROJECT TITLE</p> <p>DRY WALL SEAL - STAINLESS</p>	<p>DESIGNED BY</p> <p>K.LYNES</p>	<p>CHECKED BY</p> <p>K.LYNES</p>	<p>APPROVED BY</p> <p>[Signature]</p>	<p>SHEET 1 / 1</p>
				<p>PART NO.</p> <p>DWS-18-8-116-SS</p>	<p>DRAWN BY</p> <p>K.LYNES</p>	<p>DATE</p> <p>N/A</p>		

GUIDE COLOR CODE		ITEM	QTY	PART NUMBER	DESCRIPTION
CODE	COLOR	1	1	DWS-18-8-ST5	DRY WALL/FLOOR SEAL FOR 18 X 8 BUS
096	GREEN	2	A/R	SSBXX	FIRESTOP PILLOW
106	BLACK	3	2	WS-BP-18-8	BACKING PLATE
116	YELLOW				
126	ORANGE				
136	BLUE				

NOTE: ITEM 2 PART NUMBER XX WILL CHANGE ACCORDING TO SIZE OF FIRESTOP PILLOW SUPPLIED

EXPLODED VIEW  
SCALE 1/15

RECOMMENDED WALL/FLOOR CUTOUT  
SCALE 1/15

NOTE: CABLE BUS REMOVED FOR CLARITY

SUPPLIED FIRESTOP PILLOW SIZES AND QUANTITIES ARE BASED ON RECOMMENDED WALL CUTOUT SIZE

FRONT VIEW  
SCALE 1/15

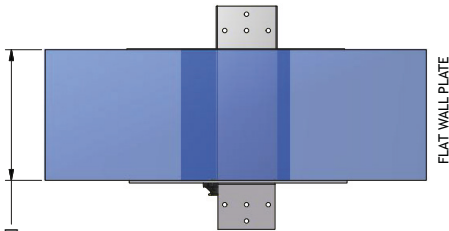
SIDE VIEW  
SCALE 1/15

**NOTES**

- DRY WALL/FLOOR SEAL FIRESTOP PART NUMBER WILL HAVE A 3 DIGIT NUMBER IN PLACE OF ST5. THIS NUMBER REPRESENTS THE COLOR CODED GUIDES BASED ON CABLE DIAMETER.
- FIRESTOP RATING: 2 HOURS
- DIMENSIONS IN INCHES [mm]

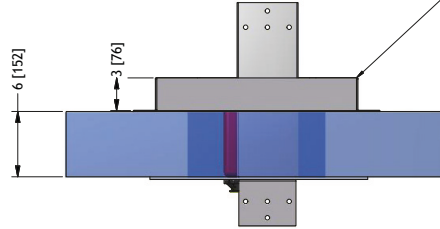
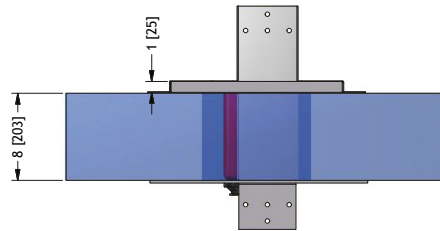
<b>SUPERIORBUS</b>	DESIGNED AND MADE IN NORTH AMERICA.	 <small>CERTIFICATIONS</small> TOLERANCES UNLESS OTHERWISE SPECIFIED: DIMENSIONS UNLESS OTHERWISE SPECIFIED: ± 0.005 INCHES AND IS SUBJECT TO CHANGE WITHOUT NOTICE. THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF SUPERIOR TRAY SYSTEMS, INC. AND IS SUBJECT TO CHANGE WITHOUT NOTICE. THIS DOCUMENT IS NOT TO BE REPRODUCED, USED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF SUPERIOR TRAY SYSTEMS, INC.	 #12-13025 BATH AVENUE SURREY, BC VAW 1B3 CANADA PH 604-572-4419 FX 604-572-4416	<b>SUPERIORTRAY</b> SYSTEMS, INC.				
PROJECT TITLE: DRY WALL/FLOOR SEAL FIRESTOP 18 X 8 SYSTEM		DESIGNED BY: K.L.PINES		CHECKED BY: [ ]		APPROVED BY: [ ]		SHEET 1 / 2
PART NO.: DWSF-18-8-ST5		DRAWN BY: [ ]		DATE: [ ]		W.O. NO.: N/A		

WALL THICKNESS 9 [229]  
AND LARGER



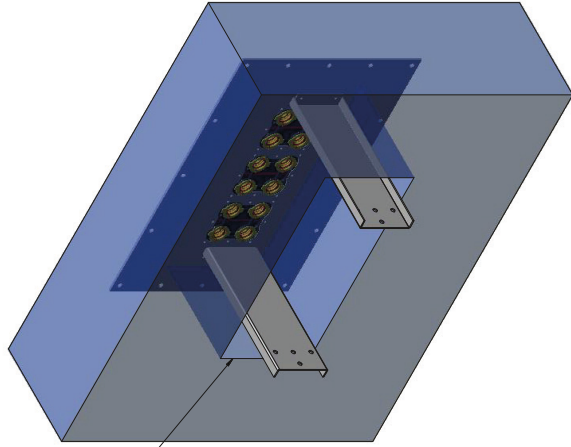
FLAT WALL PLATE

OFFSET WALL PLATE MUST BE  
USED FOR WALL/FLOOR THICKNESS LESS  
THAN 9" [229]



OFFSET WALL PLATES

LENGTH OF OFFSET DEPENDS  
ON WALL/FLOOR THICKNESS



PACK FIRESTOP PILLOWS  
INTO CAVITY/ AS PER  
MANUFACTURER DATASHEET

NOTE: CABLE BUS REMOVED FOR CLARITY

WALL/FLOOR THICKNESS	PLATE OFFSET
>9" [229]	0" [0]
8" [203]	1" [25]
7" [178]	2" [51]
6" [152]	3" [76]
5" [127]	4" [102]

**SUPERIORBUS**  
DESIGNED AND MADE IN  
NORTH AMERICA.

**SUPERIOR TRAY**  
#10, 11025 84TH AVENUE  
SURREY, BC  
V4W 1B3 CANADA

PH: 604-572-4419  
FX: 604-572-4416

PERMISSION OF SUPERIOR TRAY SYSTEMS INC.

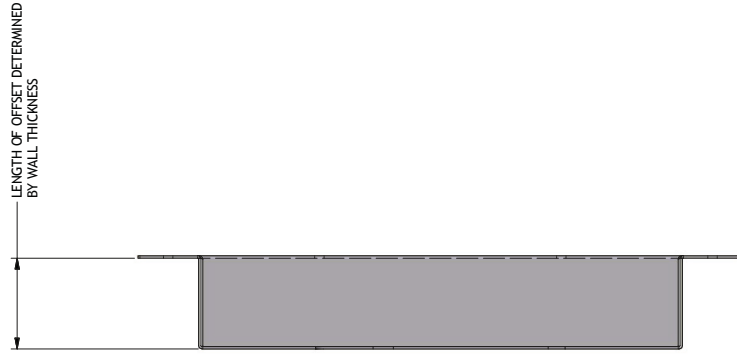
**sts**

PROJECT: DRY WALL/FLOOR SEAL  
TITLE: DRY WALL/FLOOR SEAL FIRESTOP 18 X 8 SYSTEM  
PART NO.: DWSF-18-8-ST5  
DESIGNED: M.COX  
CHECKED: K.LYNES  
APPROVED: DATE

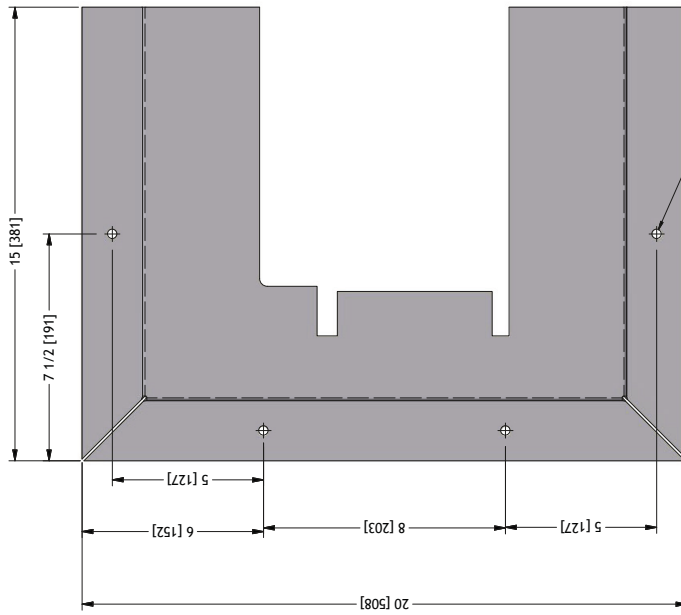
SHEET 2 / 2  
W.O. N/A  
DATE



ISOMETRIC  
SCALE 1 / 4



SIDE  
SCALE 1 / 4



FRONT  
SCALE 1 / 4

NOTES

1. MATERIAL: ALUMINUM
2. RECOMMENDED INSTALL METHOD: 1/4" CONCRETE ANCHORS
3. OFFSET BACKING PLATES ARE SIDE SPECIFIC, RIGHT SIDE BACKING PLATE IS A MIRROR IMAGE OF THE LEFT SIDE BACKING PLATE SHOWN ABOVE
4. 'X' IN PART NUMBER REFERS TO THE BACKING PLATE OFFSET IN INCHES
5. 'L' IN PART NUMBER REFERS TO LEFT SIDE BACKING PLATE

PROJECT	OFFSET FIRESTOP BACKING PLATE	SHEET	1 / 1
TITLE	BACKING PLATE	W.O.	N/A
PART NO.	WS-BPL-18-8-X	DESIGNED	DATE
T.GIVEN		DRAWN	APPROVED
		K.LYNES	

**SUPERIOR TRAY**  
SYSTEMS INC.

**sts**

#10, 13025 BATH AVENUE PH 604-572-4419  
SURREY, BC FX 604-572-4416  
V3W 1B3 CANADA

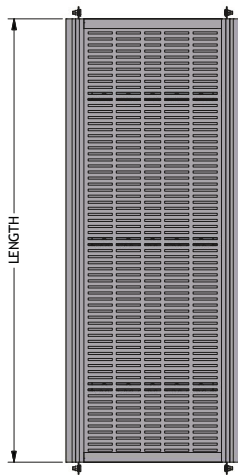
**SUPERIORBUS**  
DESIGNED AND MADE IN NORTH AMERICA.

CERTIFICATIONS

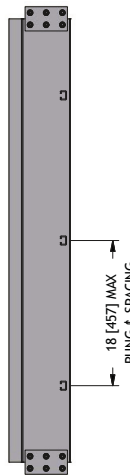
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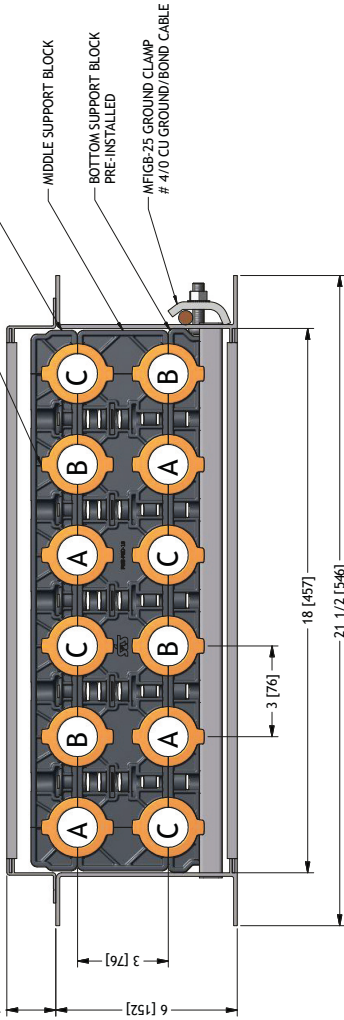
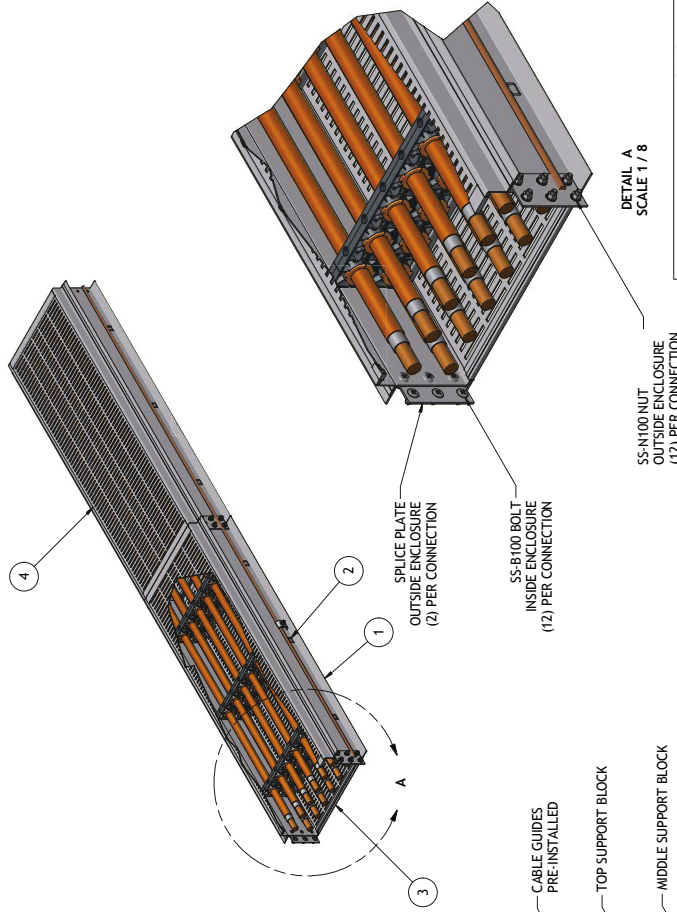
ITEM	DESCRIPTION
1	SIDE RAIL
2	RUNG
3	BOTTOM COVER
4	TOP COVER



TOP  
SCALE 1/15



SIDE  
SCALE 1/15



PHASE ARRANGEMENT  
SCALE 1/4

NOTES

- SUPPORT BLOCK SPACING:  
MAX 36 [914] HORIZONTAL SECTIONS  
MAX 18 [457] VERTICAL SECTIONS
- CABLE: 500 MCM/MV-105 COPPER EPR/PVC  
OKO GUARD-OKOSEAL OKONITE 114-23-3846  
4 CONDUCTORS/PHASE, 0 CONDUCTORS/NEUTRAL
- TERMINATION: 3M 7624-T-10 INDOOR
- LUG: ILS-CO PN CLND-500-12-134
- SYSTEM WEIGHT (HORIZONTAL) : 34.2 LB./FT. [51.0 KG/M]  
SYSTEM WEIGHT (VERTICAL) : 35.1 LB./FT [52.3 KG/M]
- SHORT CIRCUIT: 65 KA / 60 CYCLES
- GROUND CABLE: #4/0 COPPER
- MATERIAL: ALL METALLIC PARTS ARE ALUMINUM
- CABLE SUPPORT MATERIALS: 30% GLASS FIBER REINFORCED PBT BLOCKS WITH HDPE CABLE GUIDES
- FOR SAMPLE ONLY, NOT FOR PRODUCTION

PROJECT	SAMPLE SYSTEM CUT SHEET	SHEET	1 / 1
TITLE	ALUMINUM SYSTEM CUT SHEET	W.O.	XXXX
PART NO.	5KV-3WIRE-2600A	APPROVED	DATE
DESIGNED	11/05/09	CHECKED	
DRAWN	11/05/09	IN CHARGE	

**SUPERIOR TRAY SYSTEMS, INC.**  
#12-13025 BATH AVENUE PH 604-572-4419  
WYOMING, WY 83091 FX 604-572-4416  
V30W 1B3 CANADA

CERTIFICATIONS | TOLERANCES U.N.O. ± 1/16IN  
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**SUPERIORBUS**  
DESIGNED AND MADE IN NORTH AMERICA.

ITEM	DESCRIPTION
1	SIDE RAIL
2	RUNG
3	BOTTOM COVER
4	TOP COVER

**TOP SCALE 1/25**  
LENGTH 118 [2997] MAX

**SIDE SCALE 1/25**

**PHASE ARRANGEMENT SCALE 1/4**  
Dimensions: 2 [51], 6 [152], 3 [76], 18 [457], 21 1/2 [546]

**DETAIL A SCALE 1/8**

**NOTES**

- SUPPORT BLOCK SPACING:  
MAX 36 [914] HORIZONTAL SECTIONS  
MAX 18 [457] VERTICAL SECTIONS
- CABLE: 500 MCM MV-105 COPPER EPR/PVC  
OKO GUARD-OKO SEAL OKONITE 114-23-3846  
4 CONDUCTORS/PHASE, 0 CONDUCTORS/NEUTRAL
- TERMINATION: 3M 7624-T-110 INDOOR
- LUG: ILSICO PN CLND-500-12-134
- SYSTEM WEIGHT (HORIZONTAL) : 41.1 LB./FT. [61.2 KG/M]  
SYSTEM WEIGHT (VERTICAL) : 42.0 LB./FT [62.5 KG/M]
- SHORT CIRCUIT: 65 KA / 60 CYCLES
- GROUND CABLE: #4/0 COPPER
- MATERIAL: ALL METALLIC PARTS ARE 316 STAINLESS STEEL  
CABLE SUPPORT MATERIALS: 30% GLASS FIBER REINFORCED PBT
- BLOCKS WITH HDPE CABLE GUIDES
- FOR SAMPLE ONLY, NOT FOR PRODUCTION

**CERTIFICATIONS**

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**SUPERIORBUS**  
DESIGNED AND MADE IN NORTH AMERICA.

**SUPERIORTRAY**  
S Y S T E M S I N C  
#12-13025 84TH AVENUE PH 604-572-4419  
SURREY, BC FY 604-572-4416  
V3W 1B3 CANADA

**PROJECT** SAMPLE SYSTEM CUT SHEET  
**TITLE** STAINLESS SYSTEM CUT SHEET  
**PART NO.** SKV-3WIRE-2600A  
**DESIGNED** K.LYNE  
**DRAWN** T. NGUYEN  
**CHECKED** M.COX  
**APPROVED** M.COX

**SHEET 1 / 1**  
**W.O.** XXXX  
**DATE**

## General

Each Superior Bus system has been designed with efficiency as a top priority and analyzed with FEA. We produce Cable bus systems that meet all requirements set by the CSA and UL. This report goes over the results obtained through FEA covering electrical, thermal and electromagnetic analysis.

## Certifications

- CSA certified Cable Bus system
- CSA certified fully ventilated system
- Cable bus enclosure is UL certified as grounding conductor
- FT4 rated insulated conductors with both CSA and UL certification

## System Specifications

System Voltage	System Ampacity	WIRE	MCM	AMBIENT	MAX TEMP.
5000V	2600A	3	500	40	90

Continuous rating	2600A
Allowable cable ampacity (as per ambient & max temp.)	695A
Conductors per phase	4
Frequency	60 Hz

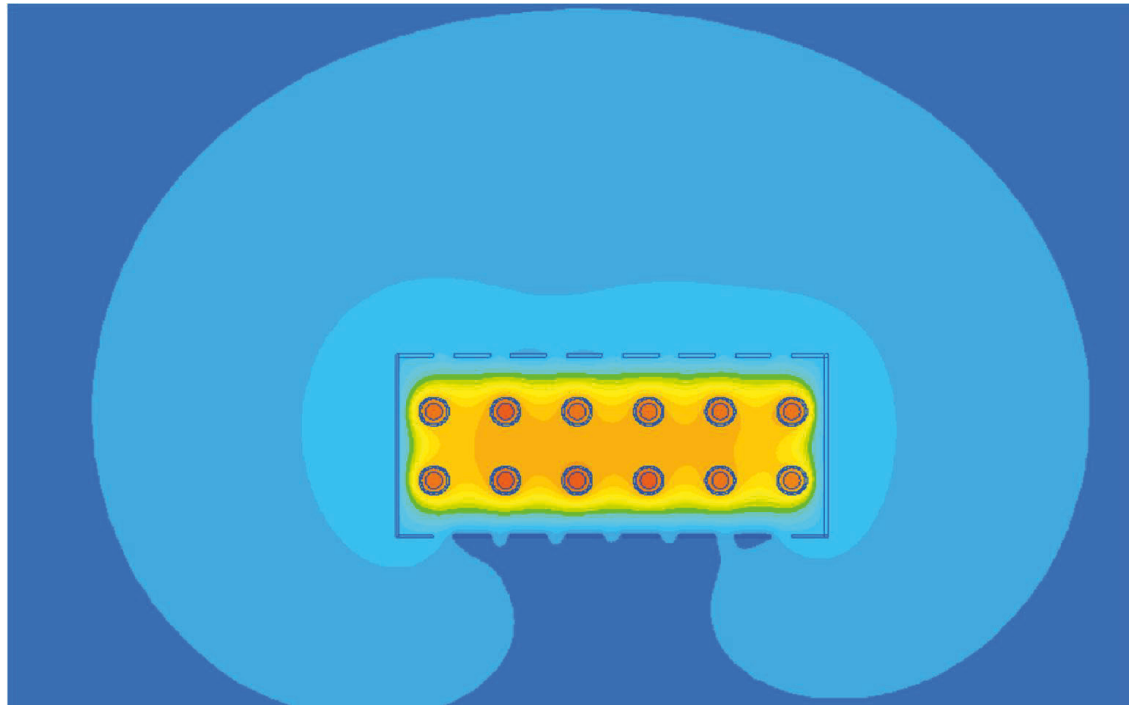
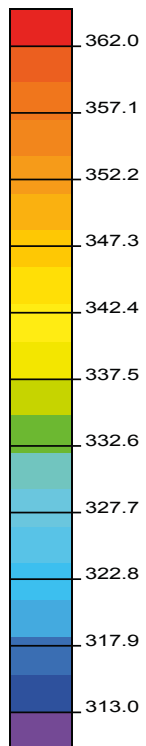


## Thermal Analysis

The temperature of each conductor in our Superior Bus system will not exceed the rated maximum temperature under specified conditions. By maintaining a system under that temperature, the operating life of the Superior Bus system can be maximized without fear of insulation failure or loss of integrity.

CONDUCTOR		INSULATOR		ENCLOSURE		AIR LEAVING ENCLOSURE	
Kelvins	Degrees °C	Kelvins	Degrees °C	Kelvins	Degrees °C	Kelvins	Degrees °C
361.74	89	357.77	85	323.33	50	324.27	51

Temperature  
T (K)





## Electrical Analysis

For high efficiency and system balance, an in depth electrical analysis of the Superior Bus system is performed. As with all AC carrying conductors, proximity and skin effect greatly affects phase arrangement. Each Superior Bus system is arranged to provide the lowest possible impedance and volt drop for each run.

Current (A) running at continuous 2600A

<b>A1</b> 638.48	<b>B1</b> 650.70	<b>C1</b> 637.66	<b>A2</b> 641.95	<b>B2</b> 643.03	<b>C2</b> 658.97
<b>C3</b> 653.13	<b>A3</b> 669.15	<b>B3</b> 676.91	<b>C4</b> 664.22	<b>A4</b> 654.72	<b>B4</b> 633.39

Volt drop per 100 ft (V)

<b>A V drop</b> 3.69	<b>B V drop</b> 3.81	<b>C V drop</b> 3.55
-------------------------	-------------------------	-------------------------

Impedance per 100 ft (mΩ)

<b>A1</b> 5.79	<b>B1</b> 5.85	<b>C1</b> 5.57	<b>A2</b> 5.76	<b>B2</b> 5.92	<b>C2</b> 5.39
<b>C3</b> 5.43	<b>A3</b> 5.52	<b>B3</b> 5.63	<b>C4</b> 5.34	<b>A4</b> 5.64	<b>B4</b> 6.02

<b>Phase A</b> 1.42	<b>Phase B</b> 1.46	<b>Phase C</b> 1.36
------------------------	------------------------	------------------------

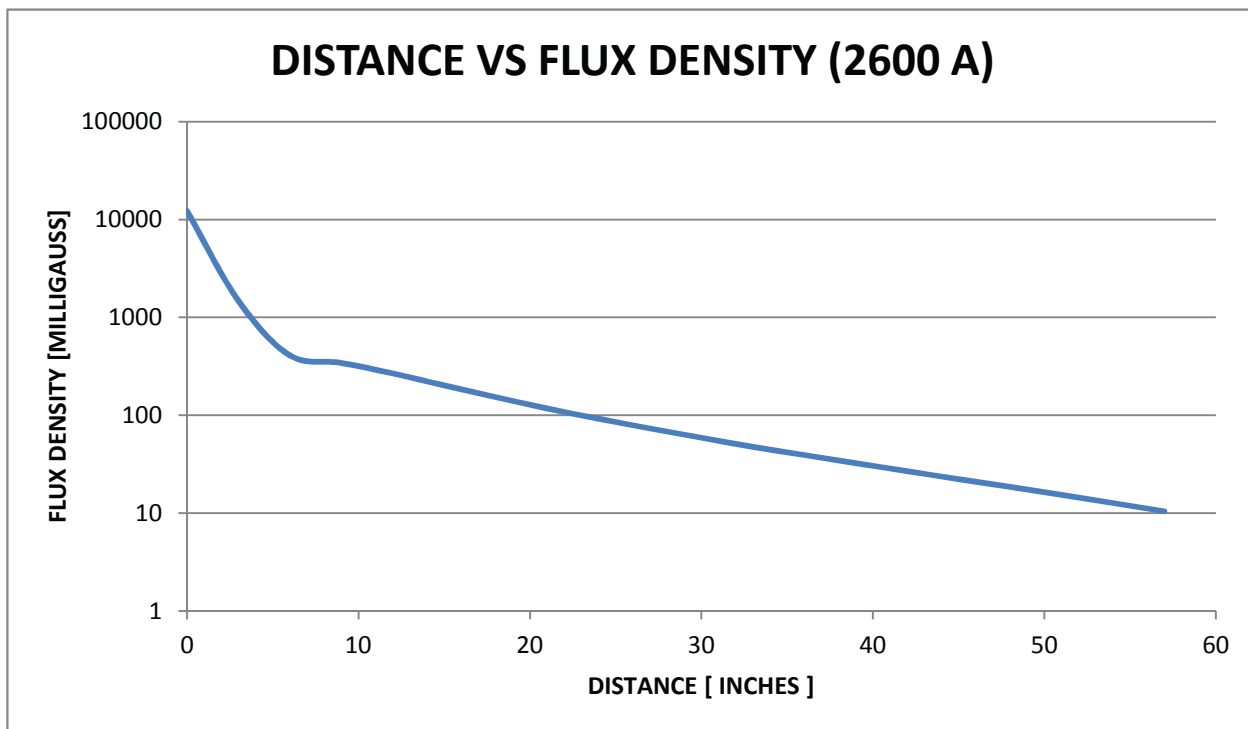
Joule Heat per 100 ft (W)

<b>Conductors</b> 13788.13	<b>Enclosure</b> 737.13	<b>Shielding</b> 1367.03
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## EMF/EMI Analysis

Power distribution systems will generate electromagnetic interference (EMI) which is highly undesirable in data centers and around EMI sensitive equipment. Each Superior Bus system is designed to minimize EMI generation due to internal field cancellations.

Distance	Flux Density
12"	267.67 [mG]
24"	92.06 [mG]
36"	39.26 [mG]
48"	18.57 [mG]



## ALL SAMPLE PACKAGES INCLUDE:

- CABLE PRODUCT DATA SHEET
- COMPRESSION LUG DATA SHEET
- COLD SHRINK TERMINATION DATA SHEET (IF APPLICABLE)
- FIRESTOP PILLOW DATA SHEET (IF APPLICABLE)
- ANY OTHER RELEVANT PRODUCT DATA SHEETS

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					PROJECT TITLE PART NO. DESIGNED	DRAWN CHECKED APPROVED



**Superior Tray Systems Inc.**

7331 Vantage Way  
Delta, BC, V4G 1C9  
Canada

Tel: +1-604-572-4419

Email: [info@superiortray.com](mailto:info@superiortray.com)

Web: [www.superiortray.com](http://www.superiortray.com)