

SOUNDWALLS - STANDARD DRAWING  
STANDARD PRODUCT DRAWINGS



TUF-BARRIER® / SILENT PROTECTOR®  
SOUND WALL

TUF BARRIER and SILENT PROTECTOR panels are manufactured in accordance with  
ASTM F3459 - Standard Specification for Rigid Poly Vinyl Chloride (PVC) Exterior Profiles Used for Sound Walls.

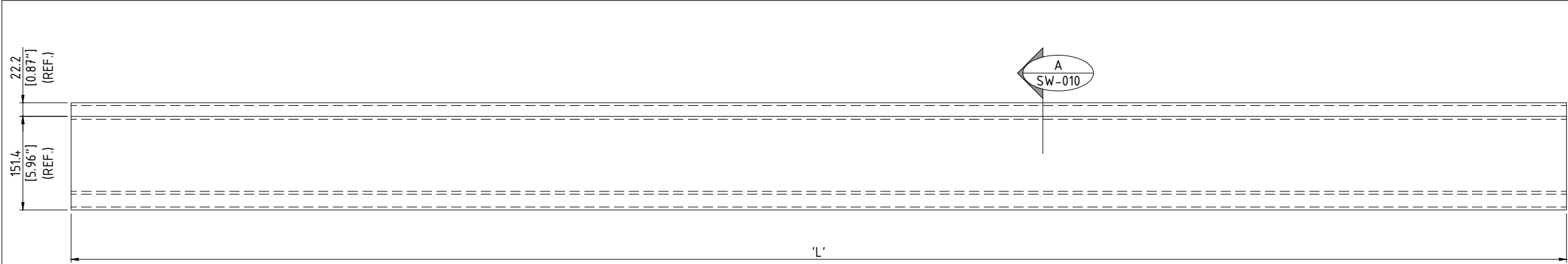
DRAWING INDEX			
DRAWING No.	DRAWING TITLE	REV.	ISSUE DATE
STD DRAWING-SW-000	COVER SHEET	1	31 JAN 24
STANDARD DRAWINGS			
STD DRAWING-SW-010	STANDARD PANEL DETAIL - TUF-BARRIER	1	31 JAN 24
STD DRAWING-SW-015	STANDARD PANEL DETAIL - TUF-BARRIER PLUS	1	31 JAN 24
STD DRAWING-SW-020	STANDARD PANEL DETAIL - SILENT PROTECTOR	1	31 JAN 24
STD DRAWING-SW-025	STANDARD PANEL DETAIL - SILENT PROTECTOR PLUS	1	31 JAN 24
STD DRAWING-SW-030	ROUTING DETAILS - SILENT PROTECTOR	1	31 JAN 24
STD DRAWING-SW-035	STANDARD PANEL DETAIL - TOP RAIL	1	31 JAN 24
STD DRAWING-SW-040	STANDARD DETAIL - STEEL 'C' CHANNEL	1	31 JAN 24
STD DRAWING-SW-045	STANDARD DETAIL - PVC H-POST	1	31 JAN 24
STD DRAWING-SW-050	STANDARD PANEL DETAIL - TUF-BARRIER XL	1	31 JAN 24
STD DRAWING-SW-055	STANDARD PANEL DETAIL - SILENT PROTECTOR XL	1	31 JAN 24
STD DRAWING-SW-060	ROUTING DETAILS - SILENT PROTECTOR XL	1	31 JAN 24
STD DRAWING-SW-065	STEEL SUPPORT U-CHANNEL STANDARD DETAIL	1	31 JAN 24

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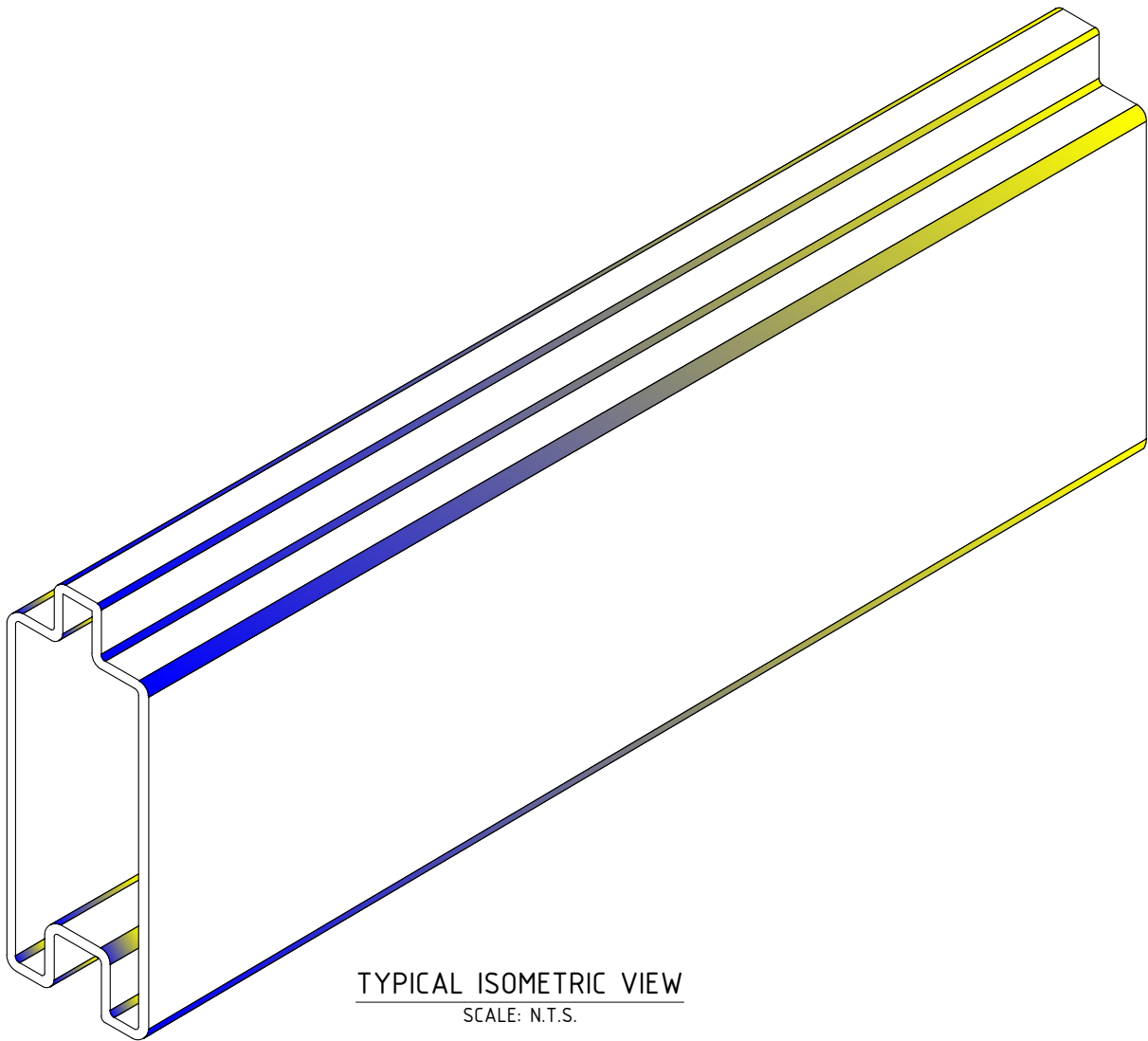
				 <div>CALL TOLL FREE IN NORTH AMERICA 1-866-231-7867 www.ailsoundwalls.com    www.ail.ca</div>	SOUNDWALLS - STANDARD DRAWING STANDARD PRODUCT DRAWINGS COVER SHEET	DESIGNED	-	-	BRANCH P.O. -	CUSTOMER REF. -		PROJECT NUMBER	STD DRAWING	DWG NO.	SW-000	REV. 1
1	31 JAN 24	BW	GENERAL REVISIONS			DES. CHK	-	-								
0	20 JUL 21	PAS	ISSUED AS STANDARD			DRAWN BY	-	-								
REV NO.	DATE	BY	DESCRIPTION			DWG. CHK	-	-								

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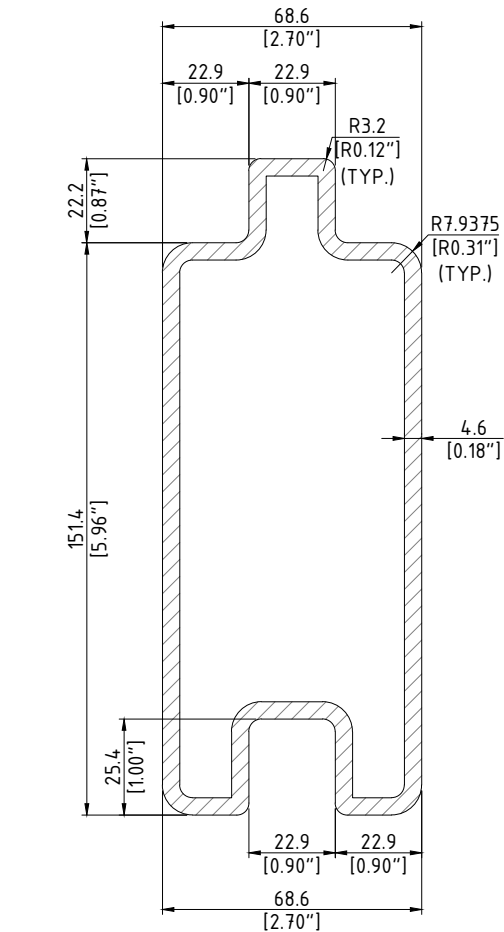
January 31, 2024, 9:35:59 AM



TYPICAL ELEVATION VIEW  
SCALE: N.T.S.



TYPICAL ISOMETRIC VIEW  
SCALE: N.T.S.



SECTION - TYPICAL CROSS SECTION  
SCALE: NTS

STANDARD PANEL PART LIST		
PRODUCT DESCRIPTION	LENGTH 'L'	WEIGHT *
TUF-BARRIER 95.5" PANEL	2426 mm [95.5"]	7.7 kg [17 lbs]
TUF-BARRIER 119.5" PANEL	3035 mm [119.5"]	9.7 kg [21.3 lbs]
TUF-BARRIER 143.5" PANEL	3645 mm [143.5"]	11.6 kg [25.6 lbs]

- NOTES:
- ALL MATERIALS ARE MANUFACTURED IN ACCORDANCE WITH ASTM F3459
  - DIMENSIONS ARE IN MILLIMETRES [INCHES]
  - TOLERANCES:
    - LENGTH/WIDTH/HEIGHT - PER ASTM F3459
    - WALL THICKNESS - PER ASTM F3459
    - FACE BOW  $\pm 3.0$  mm [ $\pm 0.13$ ] PER SIDE
  - STC=31

REV NO.	DATE	BY	DESCRIPTION
1	31 JAN 24	BW	GENERAL REVISIONS
0	20 JUL 21	PAS	ISSUED AS STANDARD

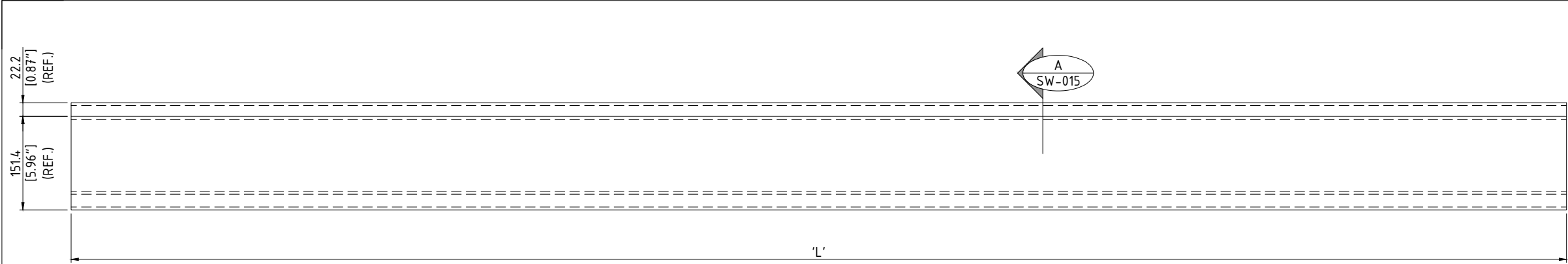


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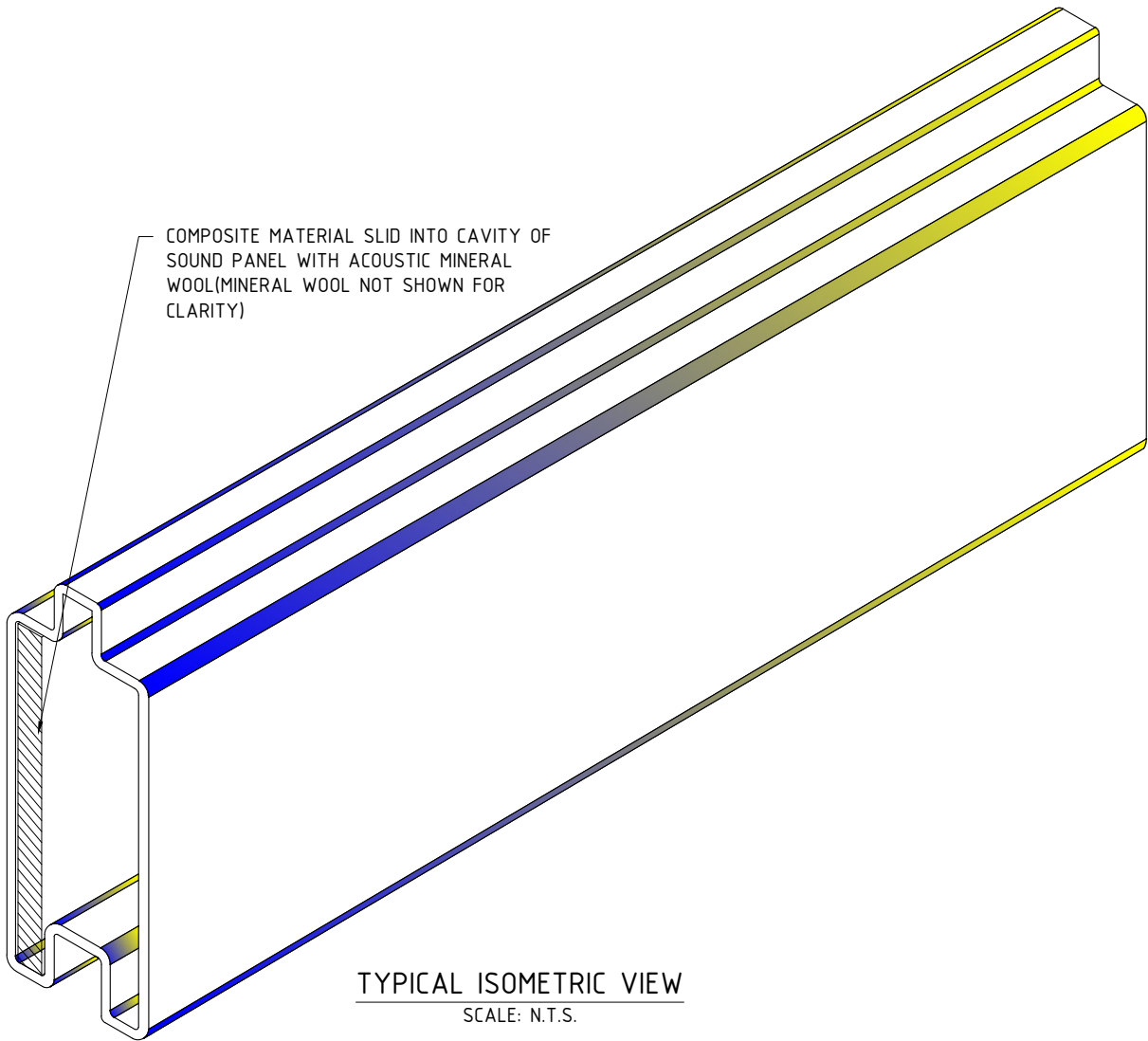
SOUNDWALLS - STANDARD DRAWING  
STANDARD PRODUCT DRAWINGS  
STANDARD PANEL DETAIL - TUF-BARRIER

DESIGNED	-	-	BRANCH P.O. -	CUSTOMER REF.		
DES. CHK	-	-		-		
DRAWN BY	-	-	PROJECT NUMBER	STD DRAWING	DWG NO. SW-010	REV. 1
DWG. CHK	-	-				

January 31, 2024 9:36:00 AM

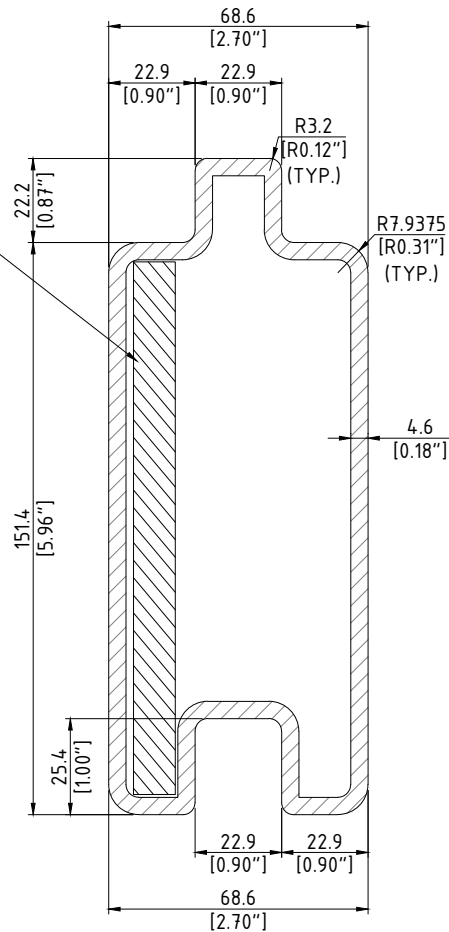


TYPICAL ELEVATION VIEW  
SCALE: N.T.S.



TYPICAL ISOMETRIC VIEW  
SCALE: N.T.S.

COMPOSITE MATERIAL SLID INTO CAVITY OF SOUND PANEL WITH ACOUSTIC MINERAL WOOL (MINERAL WOOL NOT SHOWN FOR CLARITY)



SECTION - TYPICAL CROSS SECTION  
SCALE: NTS

STANDARD PANEL PART LIST		
PRODUCT DESCRIPTION	LENGTH 'L'	WEIGHT *
TUF-BARRIER PLUS 95.5" PANEL	2426 mm [95.5"]	13.5 kg [30 lbs]
TUF-BARRIER PLUS 119.5" PANEL	3035 mm [119.5"]	16.9 kg [37.3 lbs]
TUF-BARRIER PLUS 143.5" PANEL	3645 mm [143.5"]	20.3 kg [44.7 lbs]

- NOTES:
- ALL MATERIALS ARE MANUFACTURED IN ACCORDANCE WITH ASTM F3459
  - DIMENSIONS ARE IN MILLIMETRES [INCHES]
  - TOLERANCES:
    - LENGTH/WIDTH/HEIGHT - PER ASTM F3459
    - WALL THICKNESS - PER ASTM F3459
    - FACE BOW  $\pm 3.0$  mm [ $\pm 0.13$ ] PER SIDE
  - STC=36

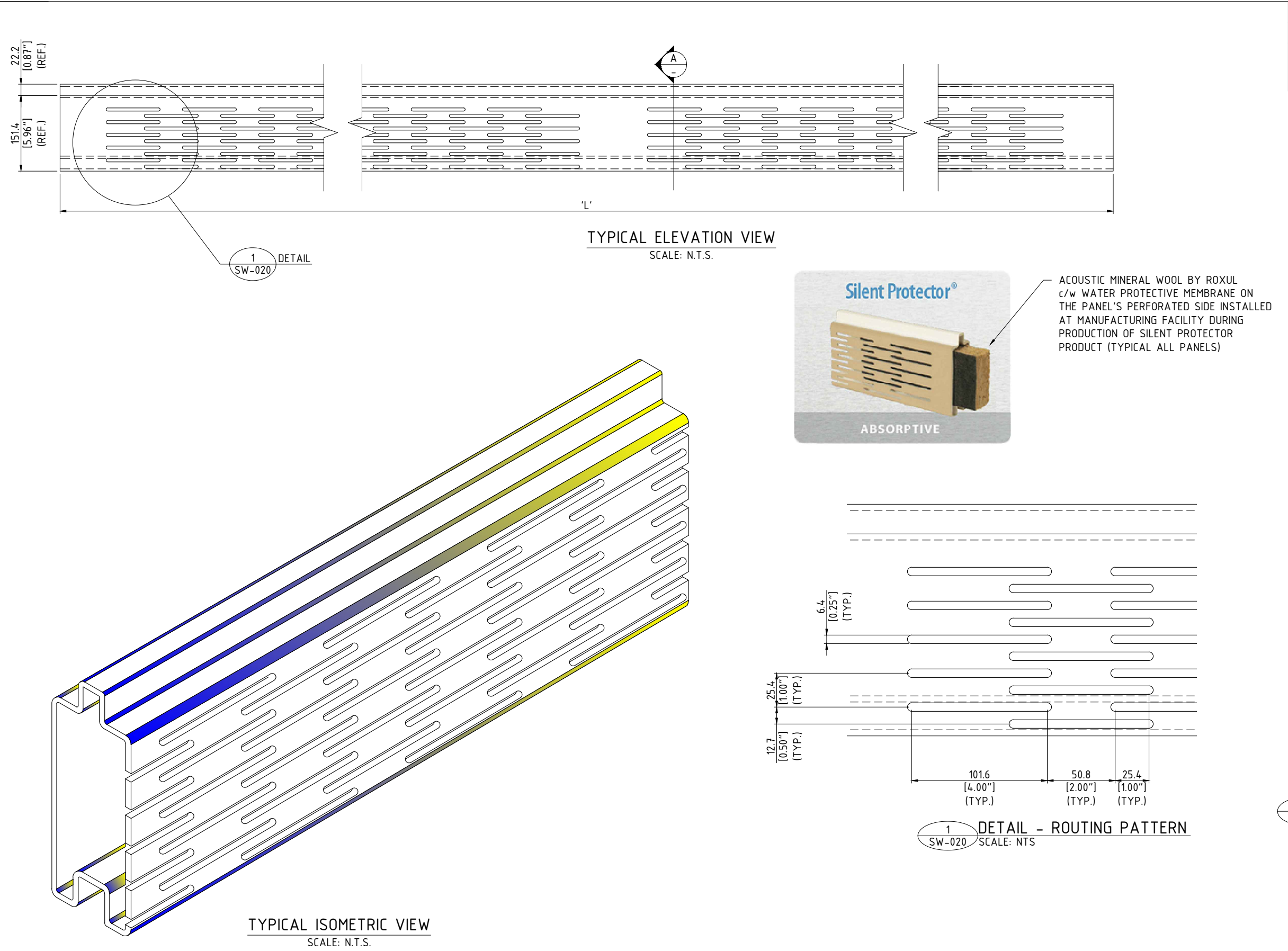
REV NO.	DATE	BY	DESCRIPTION
1	31 JAN 24	BW	GENERAL REVISIONS
0	20 JUL 21	PAS	ISSUED AS STANDARD



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SOUNDWALLS - STANDARD DRAWING  
STANDARD PRODUCT DRAWINGS  
STANDARD PANEL DETAIL - TUF-BARRIER PLUS

DESIGNED	-	-	BRANCH P.O.	CUSTOMER REF.
DES. CHK	-	-	-	-
DRAWN BY	-	-	PROJECT NUMBER	DWG NO.
DWG. CHK	-	-	STD DRAWING	SW-015
				REV. 1

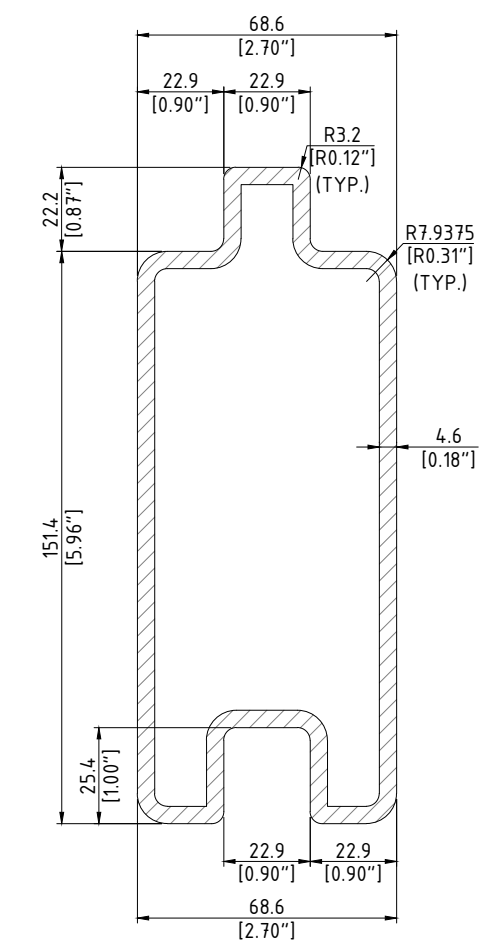


STANDARD PANEL PART LIST		
PRODUCT DESCRIPTION	LENGTH 'L'	WEIGHT *
SILENT PROTECTOR 95.5" PANEL	2426 mm [95.5"]	8.2 kg [18 lbs]
SILENT PROTECTOR 119.5" PANEL	3035 mm [119.5"]	10.2 kg [22.5 lbs]
SILENT PROTECTOR 143.5" PANEL	3645 mm [143.5"]	12.2 kg [27.0 lbs]

- NOTES:
- ALL MATERIALS ARE MANUFACTURED IN ACCORDANCE WITH ASTM F3459
  - DIMENSIONS ARE IN MILLIMETRES [INCHES]
  - TOLERANCES:
    - LENGTH/WIDTH/HEIGHT - PER ASTM F3459
    - WALL THICKNESS - PER ASTM F3459
    - FACE BOW  $\pm 3.0$  mm [ $\pm 0.13$ ] PER SIDE
  - WEIGHT INCLUDES WEIGHT OF MINERAL WOOL
  - STC=32, NRC=0.95



ACOUSTIC MINERAL WOOL BY ROXUL  
c/w WATER PROTECTIVE MEMBRANE ON  
THE PANEL'S PERFORATED SIDE INSTALLED  
AT MANUFACTURING FACILITY DURING  
PRODUCTION OF SILENT PROTECTOR  
PRODUCT (TYPICAL ALL PANELS)

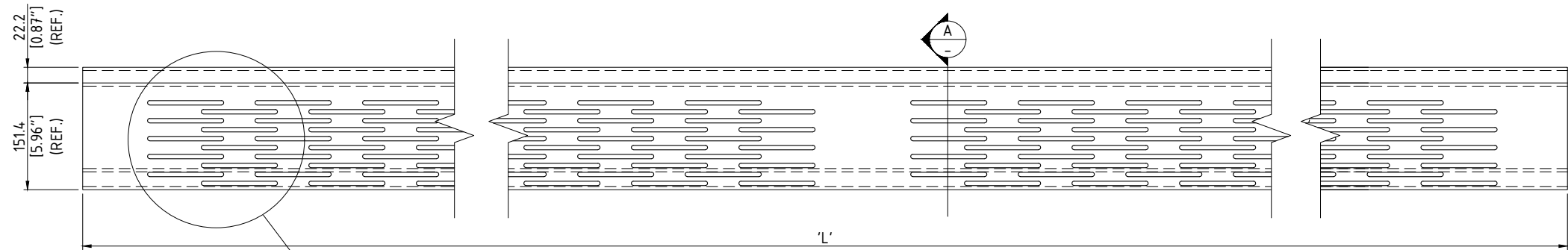


A  
SW-020  
SECTION - TYPICAL CROSS SECTION  
SCALE: NTS

1  
SW-020  
DETAIL - ROUTING PATTERN  
SCALE: NTS

1	31 JAN 24	BW	GENERAL REVISIONS		CALL TOLL FREE IN NORTH AMERICA 1-866-231-7867 www.ailsoundwalls.com    www.ail.ca	SOUNDWALLS - STANDARD DRAWING STANDARD PRODUCT DRAWINGS STANDARD PANEL DETAIL - SILENT PROTECTOR	DESIGNED	-	-	BRANCH P.O. -	CUSTOMER REF. -
0	20 JUL 21	PAS	ISSUED AS STANDARD				DES. CHK	-	-		
REV NO.	DATE	BY	DESCRIPTION				DRAWN BY	-	-		
							DWG. CHK	-	-	PROJECT NUMBER	DWG NO.
										STD DRAWING	SW-020
										REV. 1	

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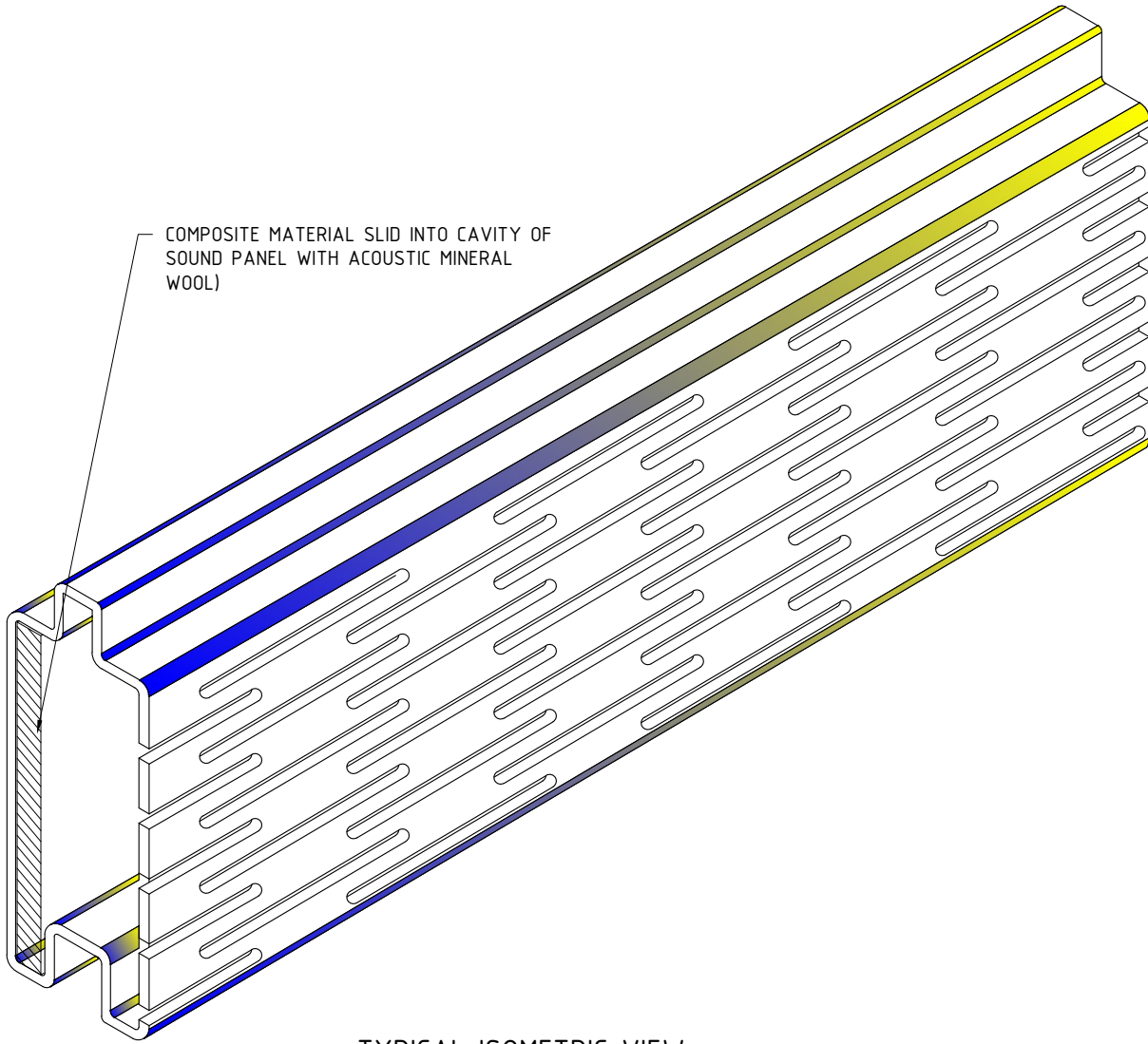


TYPICAL ELEVATION VIEW  
SCALE: N.T.S.

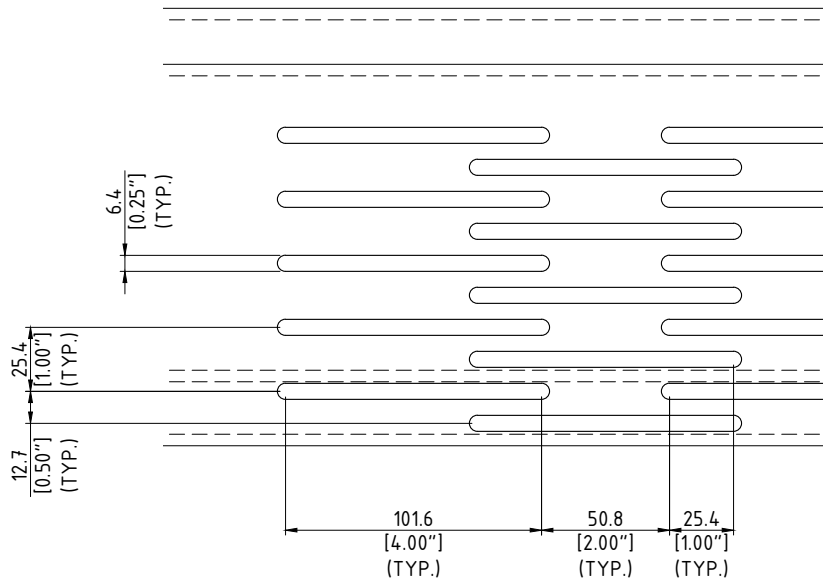


ACOUSTIC MINERAL WOOL BY ROXUL  
c/w WATER PROTECTIVE MEMBRANE ON  
THE PANEL'S PERFORATED SIDE INSTALLED  
AT MANUFACTURING FACILITY DURING  
PRODUCTION OF SILENT PROTECTOR  
PRODUCT (TYPICAL ALL PANELS)

COMPOSITE MATERIAL SLID  
INTO CAVITY OF SOUND PANEL  
WITH ACOUSTIC MINERAL  
WOOL)



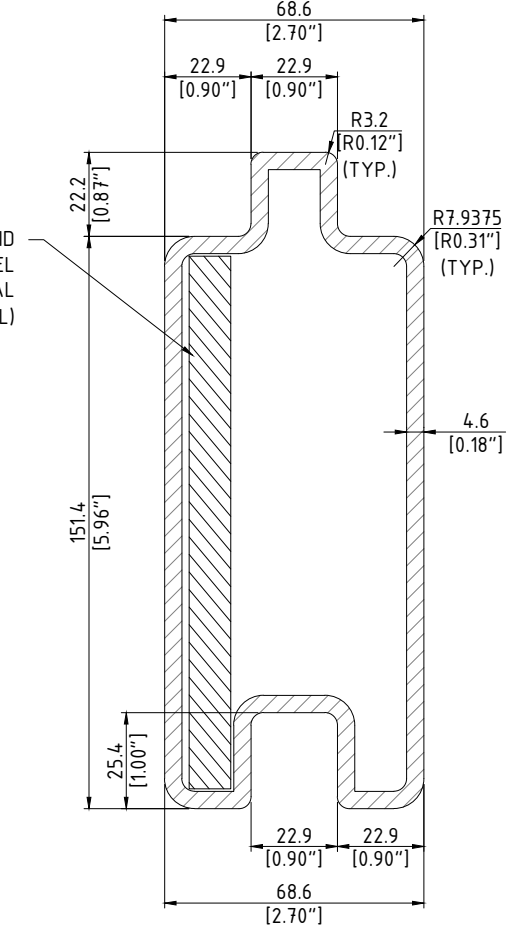
TYPICAL ISOMETRIC VIEW  
SCALE: N.T.S.



1  
SW-025  
DETAIL - ROUTING PATTERN  
SCALE: N.T.S.

STANDARD PANEL PART LIST		
PRODUCT DESCRIPTION	LENGTH 'L'	WEIGHT *
SILENT PROTECTOR PLUS 95.5" PANEL	2426 mm [95.5"]	13.6 kg [29.9 lbs]
SILENT PROTECTOR PLUS 119.5" PANEL	3035 mm [119.5"]	17.0 kg [37.5 lbs]
SILENT PROTECTOR PLUS 143.5" PANEL	3645 mm [143.5"]	20.4 kg [44.9 lbs]

- NOTES:
- ALL MATERIALS ARE MANUFACTURED IN ACCORDANCE WITH ASTM F3459
  - DIMENSIONS ARE IN MILLIMETRES [INCHES]
  - TOLERANCES:
    - LENGTH/WIDTH/HEIGHT - PER ASTM F3459
    - WALL THICKNESS - PER ASTM F3459
    - FACE BOW  $\pm 3.0$  mm [ $\pm 0.13$ "] PER SIDE
  - WEIGHT INCLUDES WEIGHT OF MINEAL FIBRE AND BACKER BOARD
  - STC=3, NRC=0.90



A  
SW-025  
SECTION - TYPICAL CROSS SECTION  
SCALE: N.T.S.

REV NO.	DATE	BY	DESCRIPTION
1	31 JAN 24	BW	GENERAL REVISIONS
0	20 JUL 21	PAS	ISSUED AS STANDARD



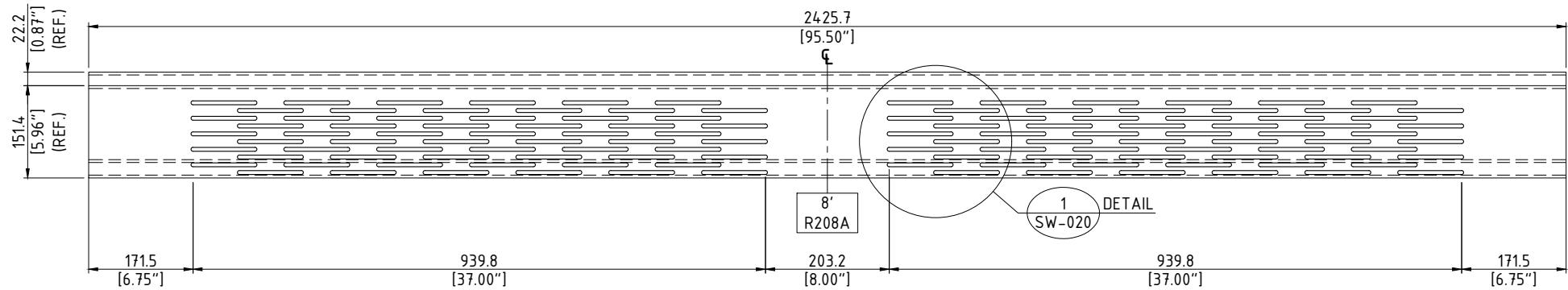
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SOUNDWALLS - STANDARD DRAWING  
STANDARD PRODUCT DRAWINGS  
STANDARD PANEL DETAIL - SILENT PROTECTOR PLUS

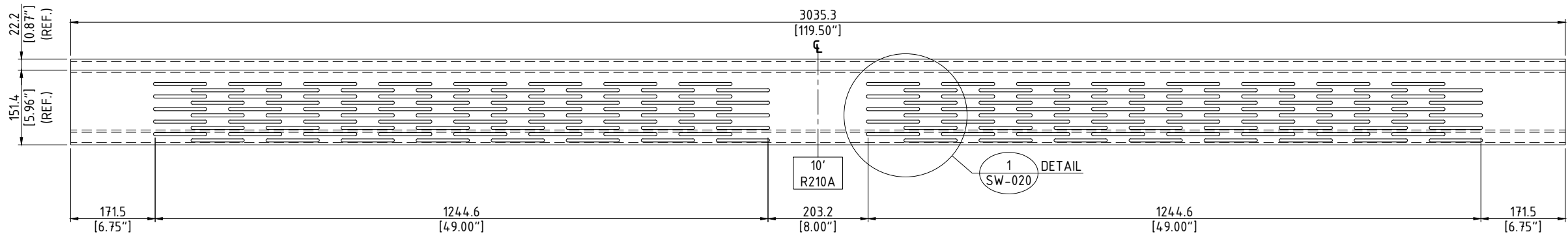
DESIGNED	-	-	BRANCH P.O.	CUSTOMER REF.
DES. CHK	-	-	-	-
DRAWN BY	-	-	PROJECT	DWG NO.
DWG. CHK	-	-	NUMBER	SW-025
STD DRAWING				REV. 1



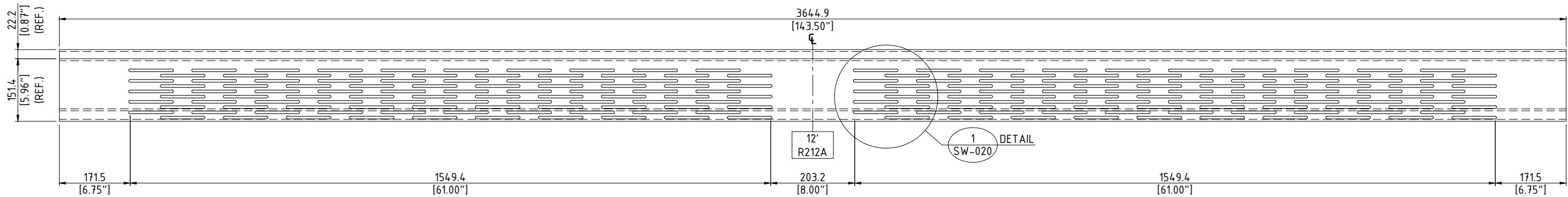
NOTES:  
1. DIMENSIONS ARE IN MILLIMETRES (INCHES)



SILENT PROTECTOR ROUTING PATTERN R208A - 2.426 m [95.5"] SECTION  
SCALE: N.T.S.



SILENT PROTECTOR ROUTING PATTERN R210A - 3.035 m [119.5"] SECTION  
SCALE: N.T.S.



SILENT PROTECTOR ROUTING PATTERN R212A - 3.645 m [143.5"] SECTION  
SCALE: N.T.S.

January 31, 2024 9:36:02 AM

1	31 JAN 24	BW	GENERAL REVISIONS
0	20 JUL 21	PAS	ISSUED AS STANDARD
REV NO.	DATE	BY	DESCRIPTION

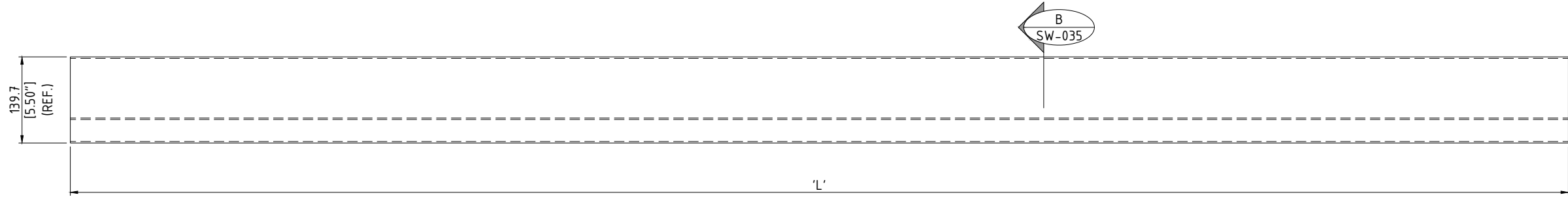


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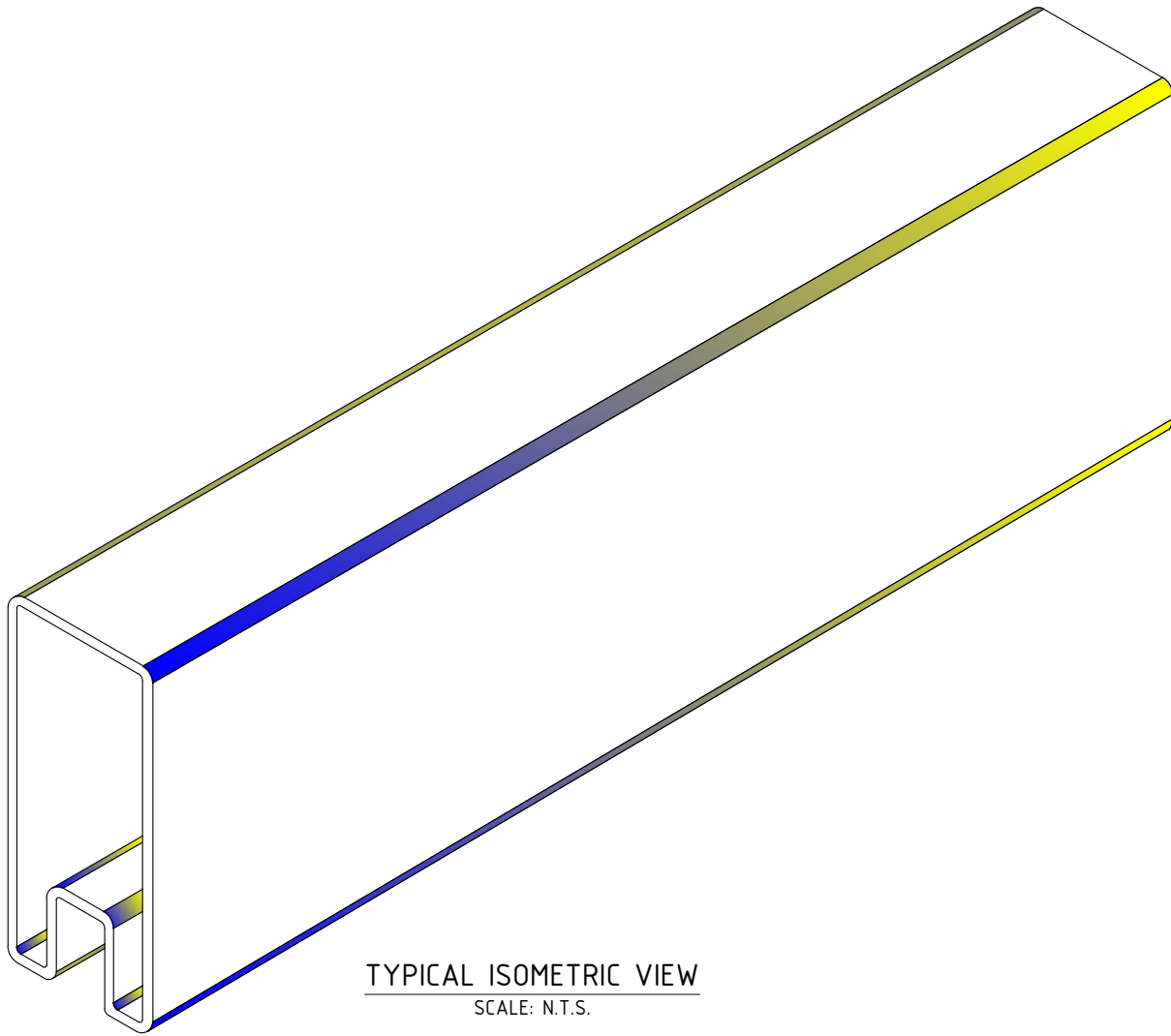
SOUNDWALLS - STANDARD DRAWING  
STANDARD PRODUCT DRAWINGS  
ROUTING DETAILS - SILENT PROTECTOR

DESIGNED	-	-	BRANCH P.O.	CUSTOMER REF.
DES. CHK	-	-	-	-
DRAWN BY	-	-	PROJECT	DWG NO.
DWG. CHK	-	-	NUMBER	SW-030
			STD DRAWING	REV. 1

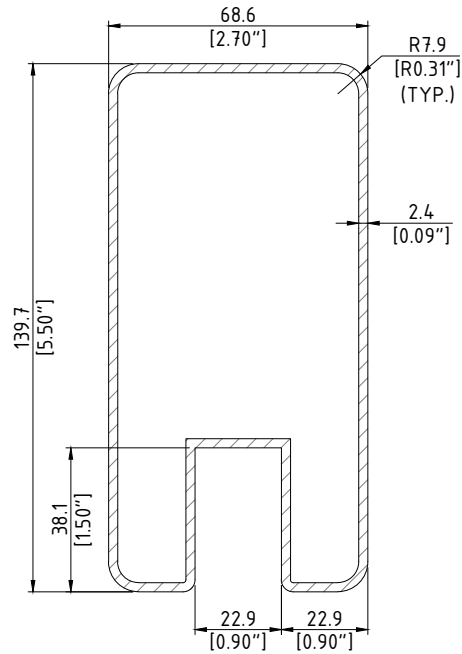
January 31, 2024 9:36:03 AM



TYPICAL ELEVATION VIEW  
SCALE: N.T.S.



TYPICAL ISOMETRIC VIEW  
SCALE: N.T.S.



CROSS SECTION  
SCALE: NTS

STANDARD PANEL PART LIST

PRODUCT DESCRIPTION	LENGTH 'L'	WEIGHT
TOP RAIL 95.5	2426 mm [95.5"]	4.1 kg [9.0 lbs]
TOP RAIL 119.5	3035 mm [119.5"]	5.0 kg [11.0 lbs]
TOP RAIL 143.5	3645 mm [143.5"]	6.0 kg [13.2 lbs]
TOP RAIL 167.5	4255 mm [167.5"]	7.0 kg [15.4 lbs]
TOP RAIL 191.5	4861 mm [191.5"]	8.1 kg [17.8 lbs]

NOTES:

- DIMENSIONS ARE IN MILLIMETRES [INCHES]
- TOLERANCES:
  - LENGTH  $\pm 6.4$  mm [ $\pm 0.25$ "]
  - WIDTH  $\pm 0.5$  mm [ $\pm 0.02$ "]
  - HEIGHT  $\pm 0.5$  mm [ $\pm 0.02$ "]
  - FACE BOW  $\pm 3.0$  mm [ $\pm 0.13$ "] PER SIDE

REV NO.	DATE	BY	DESCRIPTION
1	31 JAN 24	BW	GENERAL REVISIONS
0	20 JUL 21	PAS	ISSUED AS STANDARD



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SOUNDWALLS - STANDARD DRAWING  
STANDARD PRODUCT DRAWINGS  
STANDARD PANEL DETAIL - TOP RAIL

DESIGNED	-	-
DES. CHK	-	-
DRAWN BY	-	-
DWG. CHK	-	-

BRANCH P.O.

CUSTOMER REF.

PROJECT  
NUMBER

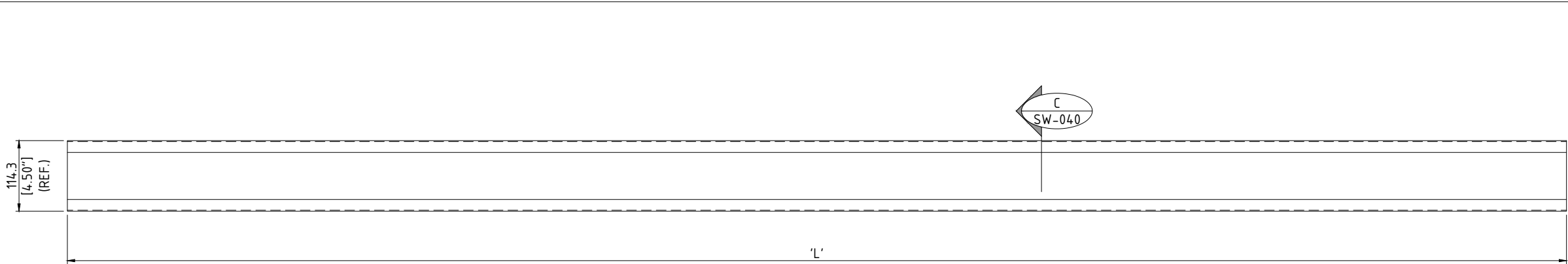
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DWG  
NO.

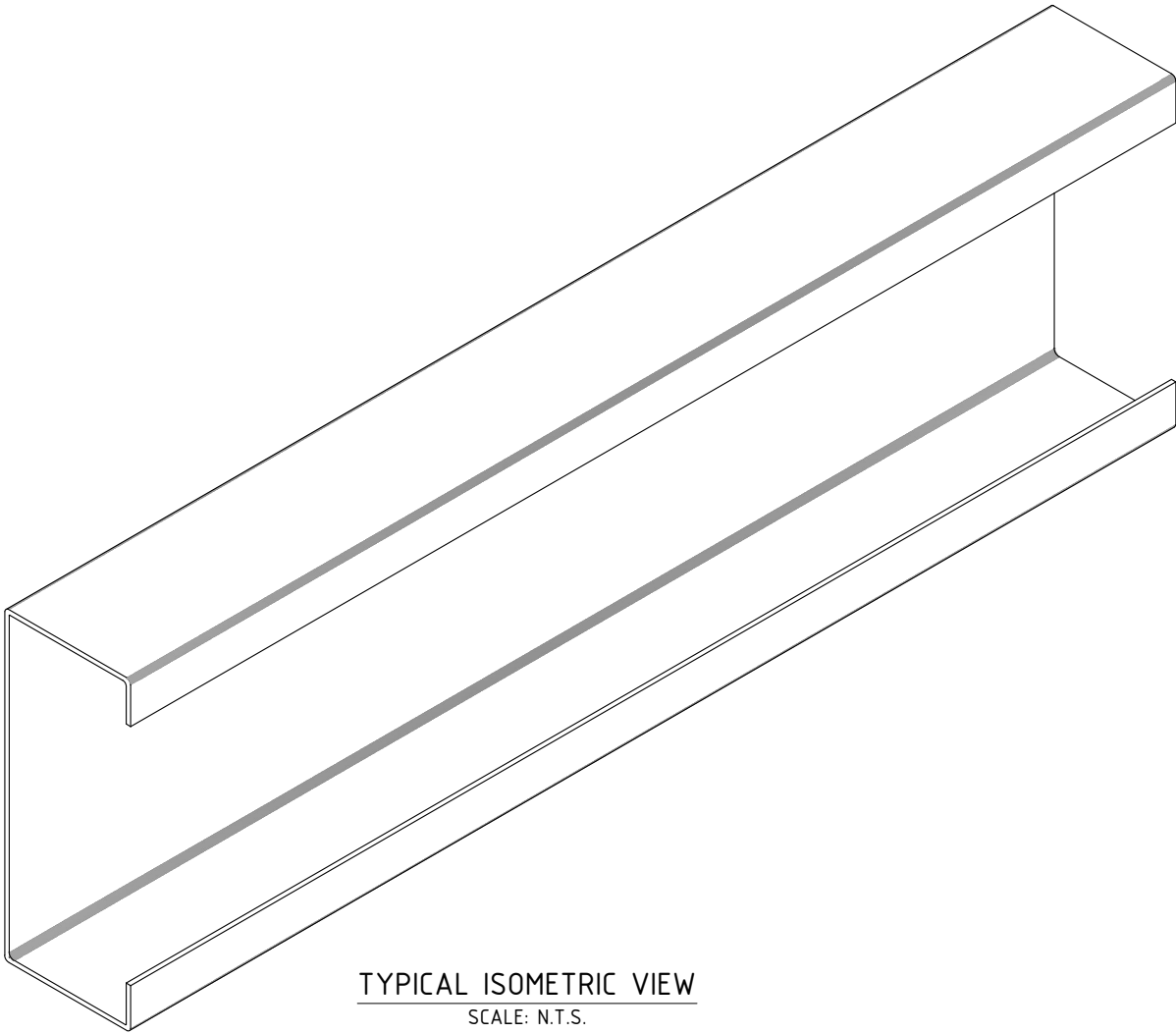
**SW-035**

REV.  
1

January 31, 2024 9:36:03 AM



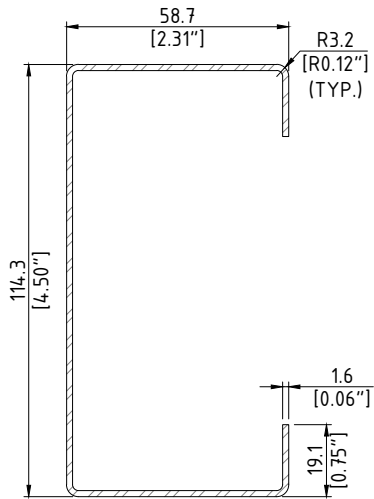
TYPICAL ELEVATION VIEW  
SCALE: N.T.S.



TYPICAL ISOMETRIC VIEW  
SCALE: N.T.S.

STANDARD PANEL PART LIST		
PRODUCT DESCRIPTION	LENGTH 'L'	WEIGHT
STEEL C-CHANNEL 95	2413 mm [95"]	8.3 kg [18.4 lbs]
STEEL C-CHANNEL 119	2023 mm [119"]	10.4 kg [23.0 lbs]
STEEL C-CHANNEL 143	3632 mm [143"]	12.5 kg [27.6 lbs]

- NOTES:
- DIMENSIONS ARE IN MILLIMETRES [INCHES]
  - TOLERANCES:
    - LENGTH  $\pm 3$  mm [ $\pm \frac{1}{8}$ "]
    - WIDTH  $\pm 0.8$  mm [ $\pm 0.03$ "]
    - HEIGHT  $\pm 0.8$  mm [ $\pm 0.03$ "]
  - STEEL CHANNEL SHALL BE MANUFACTURED FROM STEEL MEETING ASTM A653 COMMERCIAL GRADE



SECTION - TYPICAL CROSS SECTION  
SCALE: NTS

REV NO.	DATE	BY	DESCRIPTION
1	31 JAN 24	BW	GENERAL REVISIONS
0	20 JUL 21	PAS	ISSUED AS STANDARD



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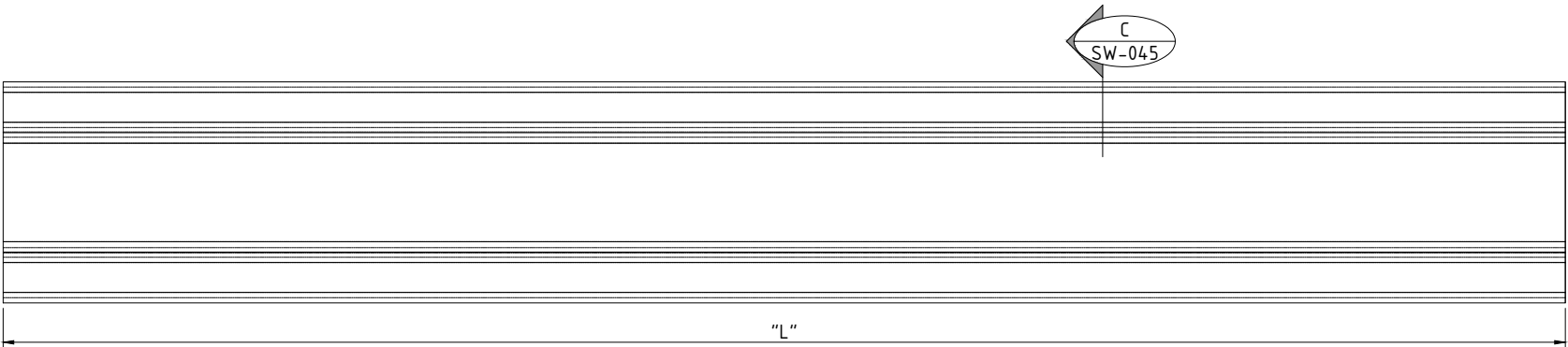
SOUNDWALLS - STANDARD DRAWING  
STANDARD PRODUCT DRAWINGS  
STANDARD DETAIL - STEEL 'C' CHANNEL

DESIGNED	-	-
DES. CHK	-	-
DRAWN BY	-	-
DWG. CHK	-	-

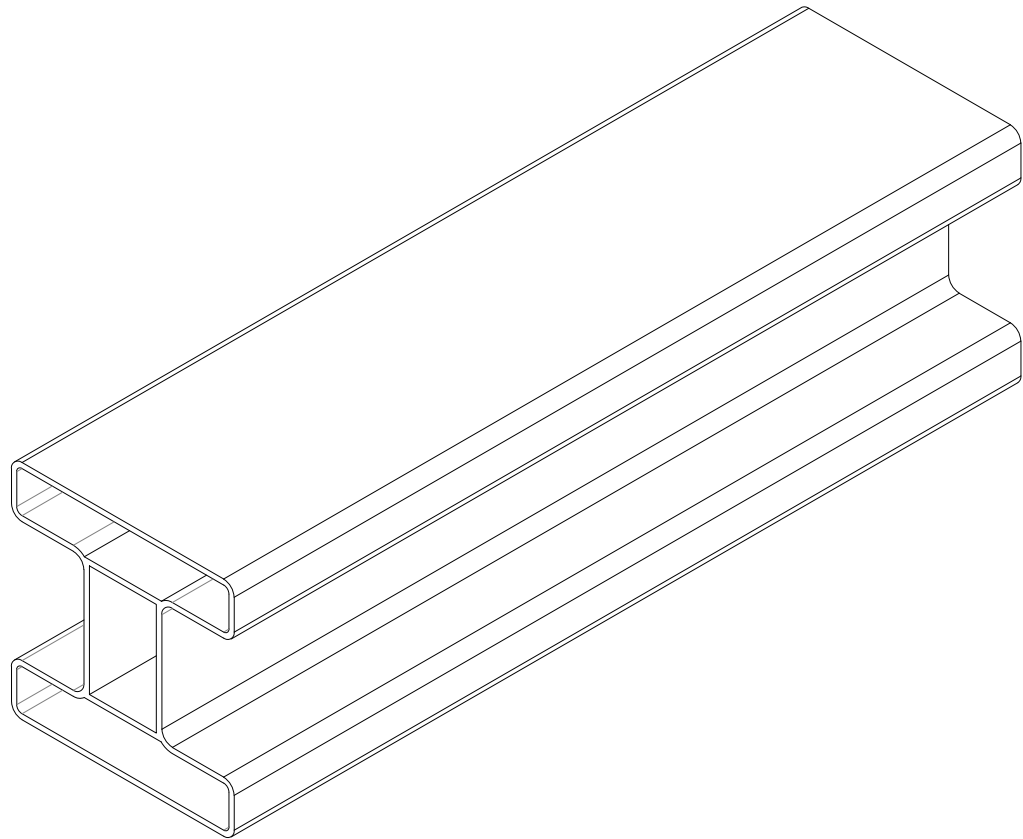
BRANCH P.O.		CUSTOMER REF.	
-		-	
PROJECT NUMBER	STD DRAWING	DWG NO.	SW-040
REV.	1		



January 31, 2024, 9:36:04 AM



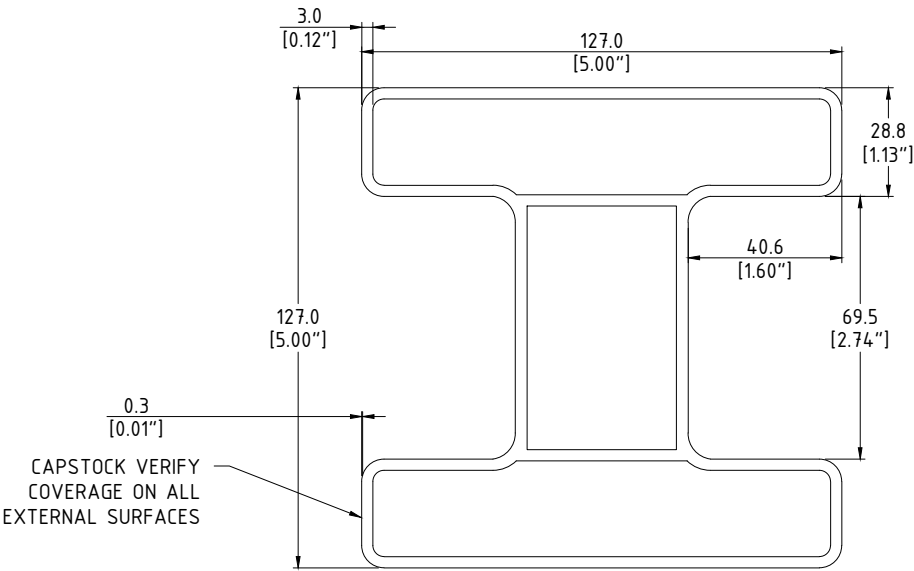
TYPICAL ELEVATION VIEW  
SCALE: N.T.S.



TYPICAL ISOMETRIC VIEW  
SCALE: N.T.S.

STANDARD PANEL PART LIST		
PRODUCT DESCRIPTION	LENGTH 'L'	WEIGHT *
H-POST 84	2234mm [84"]	6.3 kg [14 lbs]
H-POST 108	2744mm [108"]	8.1 kg [18 lbs]

- NOTES:
- DIMENSIONS ARE IN MILLIMETRES [INCHES]
  - TOLERANCES:
    - LENGTH  $\pm 6.4$  mm [ $\pm 0.25$ "]
    - WIDTH  $\pm 1.5$  mm [ $\pm 0.06$ "]
    - HEIGHT  $\pm 1.5$  mm [ $\pm 0.06$ "]



A  
SW-025 SECTION - TYPICAL CROSS SECTION  
SCALE: N.T.S.

REV NO.	DATE	BY	DESCRIPTION
1	31 JAN 24	BW	GENERAL REVISIONS
0	20 JUL 21	PAS	ISSUED AS STANDARD



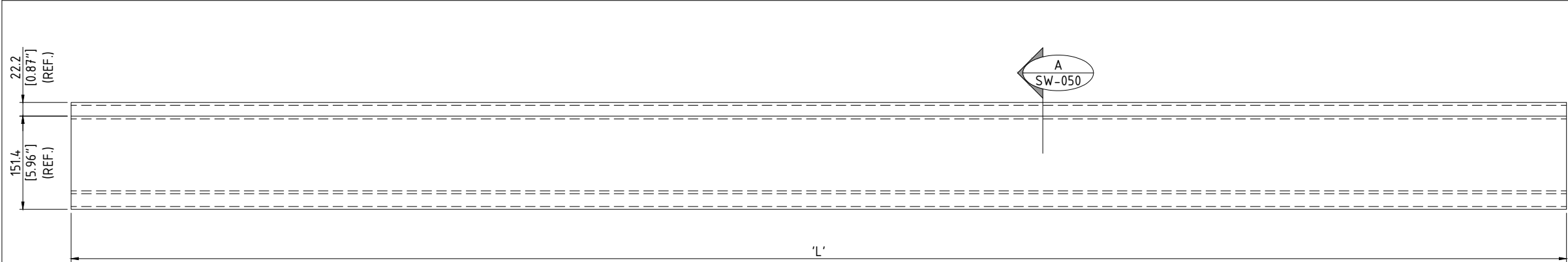
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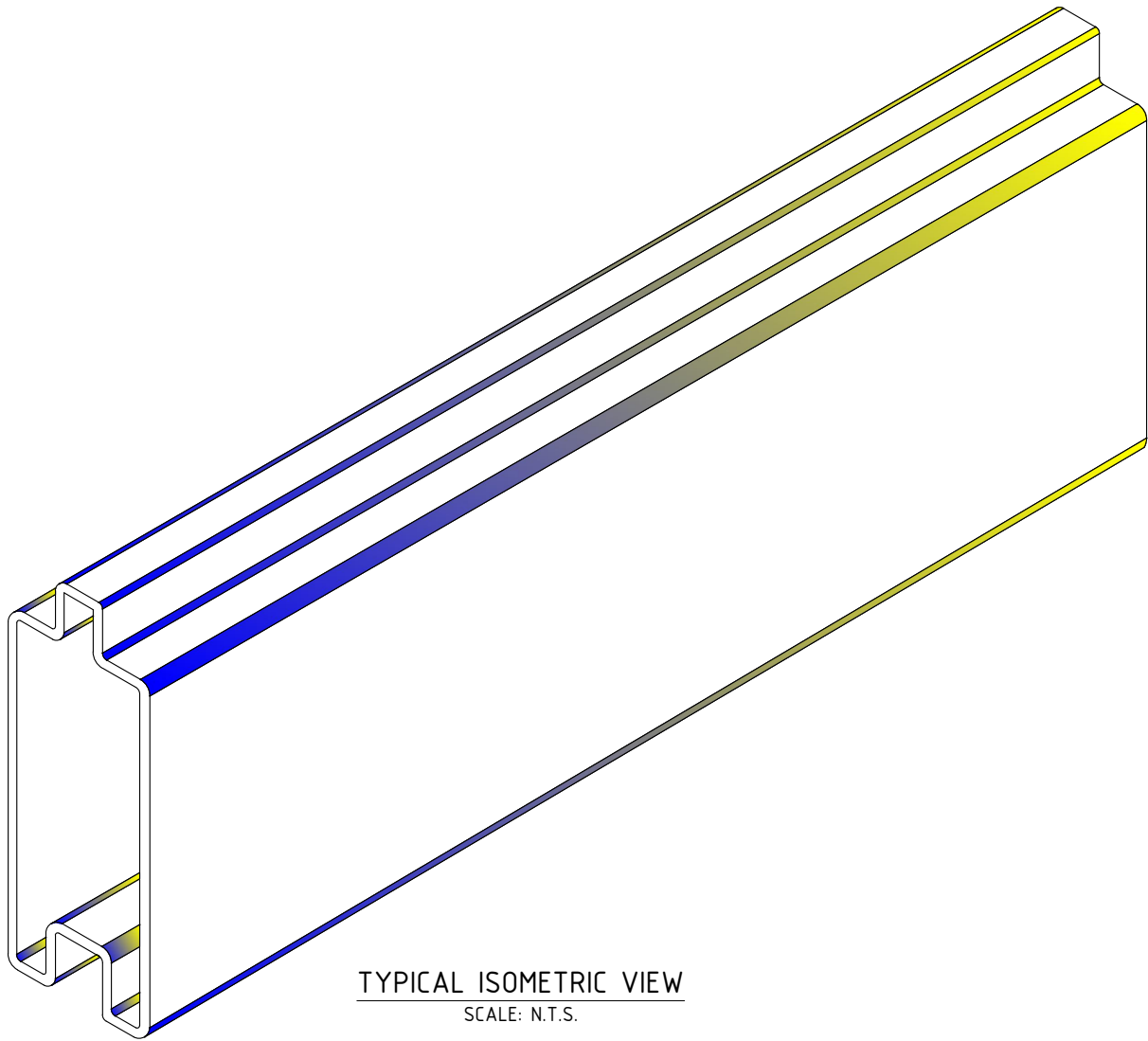
SOUNDWALLS - STANDARD DRAWING  
STANDARD PRODUCT DRAWINGS  
STANDARD DETAIL - PVC H-POST

DESIGNED	-	-	BRANCH P.O. -	CUSTOMER REF.		
DES. CHK	-	-		-		
DRAWN BY	-	-	PROJECT NUMBER	STD DRAWING	DWG NO. SW-045	REV. 1
DWG. CHK	-	-				

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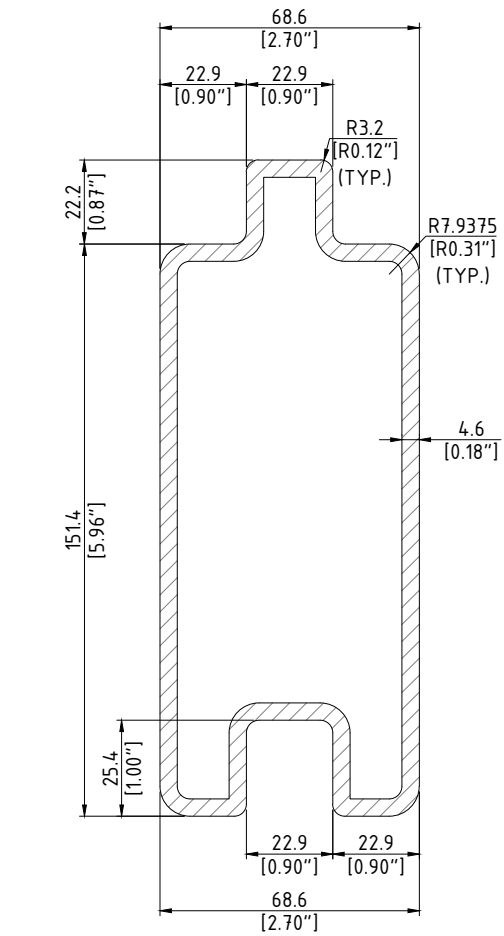
TYPICAL ELEVATION VIEW  
SCALE: N.T.S.



TYPICAL ISOMETRIC VIEW  
SCALE: N.T.S.

STANDARD PANEL PART LIST			
PRODUCT DESCRIPTION	LENGTH 'L'	WEIGHT *	
TUF-BARRIER XL 167.5" PANEL	4255 mm [167.5"]	13.7 kg	[30.3 lbs]
TUF-BARRIER XL 191.5" PANEL	4864 mm [191.5"]	15.7 kg	[34.6 lbs]

- NOTES:
- ALL MATERIALS ARE MANUFACTURED IN ACCORDANCE WITH ASTM F3459
  - DIMENSIONS ARE IN MILLIMETRES [INCHES]
  - TOLERANCES:
    - LENGTH/WIDTH/HEIGHT - PER ASTM F3459
    - WALL THICKNESS -PER ASTM F3459
    - FACE BOW  $\pm 3.0$  mm [ $\pm 0.13$ "] PER SIDE
  - STC=31



SECTION - TYPICAL CROSS SECTION  
SCALE: NTS

REV NO.	DATE	BY	DESCRIPTION
1	31 JAN 24	BW	GENERAL REVISIONS
0	20 JUL 21	PAS	ISSUED AS STANDARD

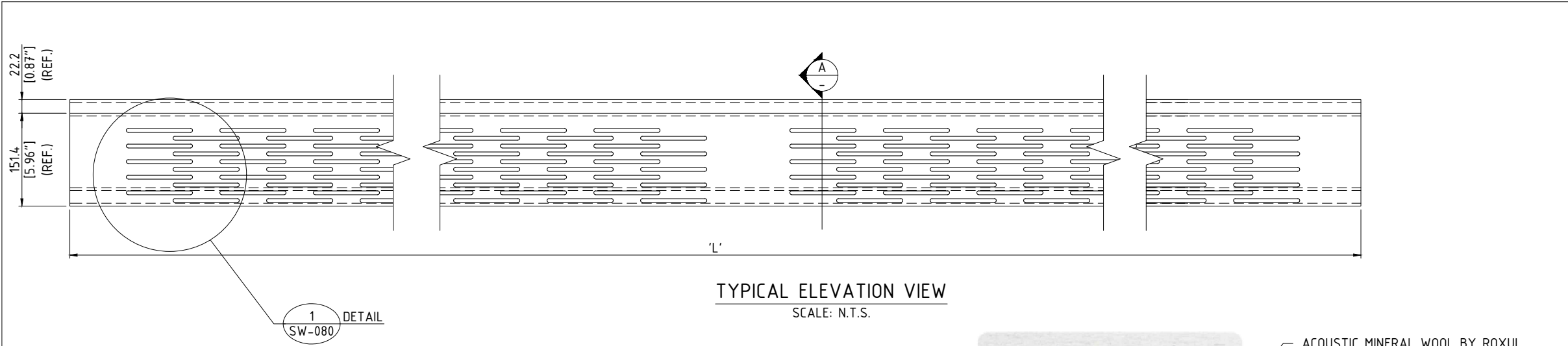


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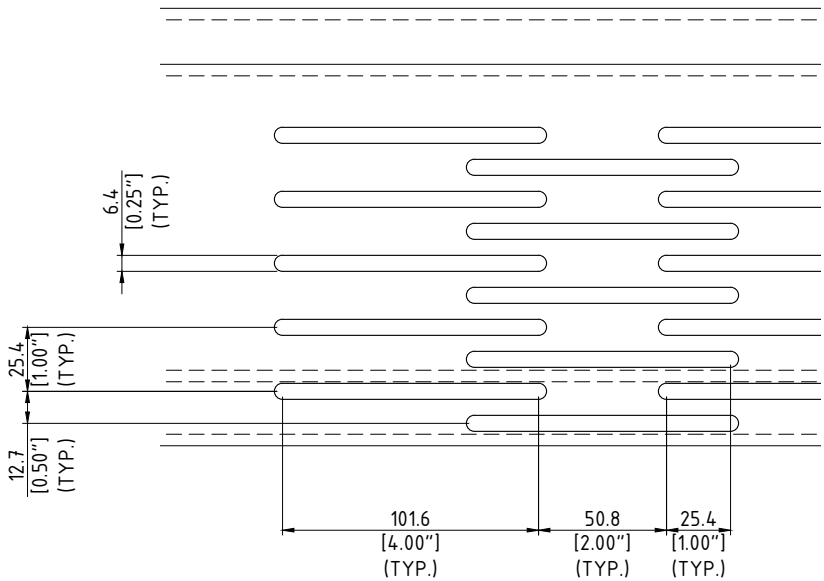
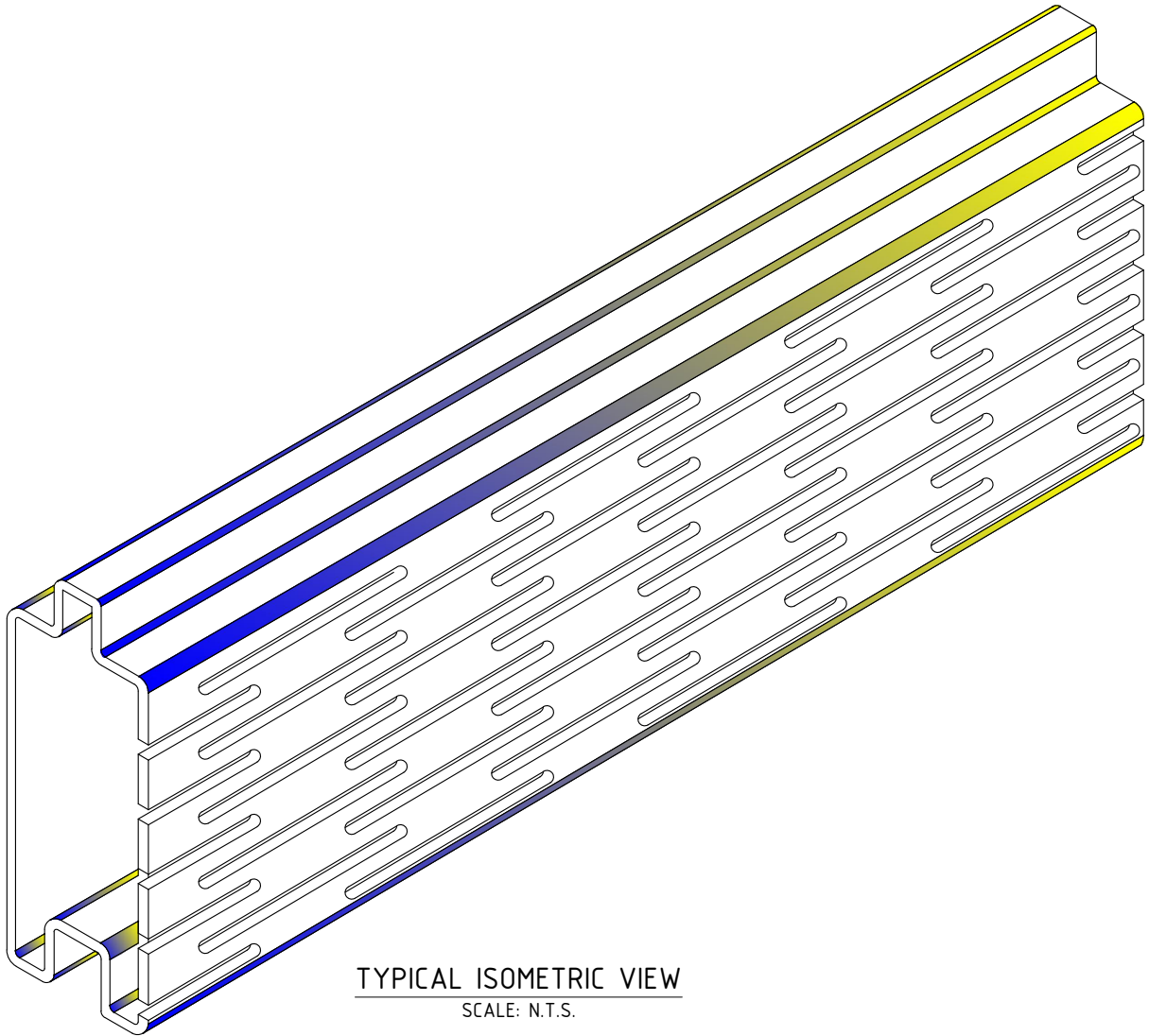
SOUNDWALLS - STANDARD DRAWING  
STANDARD PRODUCT DRAWINGS  
STANDARD PANEL DETAIL - TUF-BARRIER XL

DESIGNED	-	-	BRANCH P.O. -	CUSTOMER REF. -		
DES. CHK	-	-				
DRAWN BY	-	-	PROJECT NUMBER	STD DRAWING	DWG NO.	SW-050
DWG. CHK	-	-			REV. 1	

January 31, 2024 9:36:06 AM

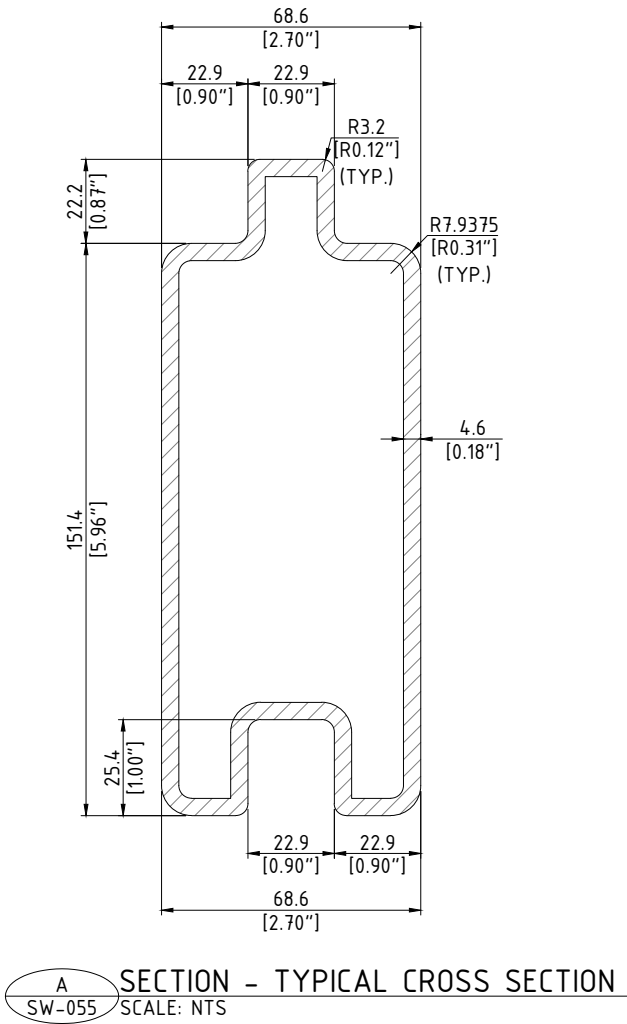


ACOUSTIC MINERAL WOOL BY ROXUL  
c/w WATER PROTECTIVE MEMBRANE ON  
THE PANEL'S PERFORATED SIDE INSTALLED  
AT MANUFACTURING FACILITY DURING  
PRODUCTION OF SILENT PROTECTOR  
PRODUCT (TYPICAL ALL PANELS)



STANDARD PANEL PART LIST		
PRODUCT DESCRIPTION	LENGTH 'L'	WEIGHT ★
SILENT PROTECTOR XL 143.5" PANEL	3645 mm [143.5"]	12.2 kg [27.0 lbs]
SILENT PROTECTOR XL 167.5" PANEL	4255 mm [167.5"]	14.3 kg [31.6 lbs]
SILENT PROTECTOR XL 191.5" PANEL	4864 mm [191.5"]	16.3 kg [36.0 lbs]

- NOTES:**
- ALL MATERIALS ARE MANUFACTURED IN ACCORDANCE WITH ASTM F3459
  - DIMENSIONS ARE IN MILLIMETRES [INCHES]
  - TOLERANCES:
    - LENGTH/WIDTH/HEIGHT - PER ASTM F3459
    - WALL THICKNESS - PER ASTM F3459
    - FACE BOW ±3.0 mm [±0.13"] PER SIDE
  - WEIGHT INCLUDES WEIGHT OF MINERAL WOOL
  - STC=32, NRC=0.95



REV NO.	DATE	BY	DESCRIPTION
1	31 JAN 24	BW	GENERAL REVISIONS
0	20 JUL 21	PAS	ISSUED AS STANDARD



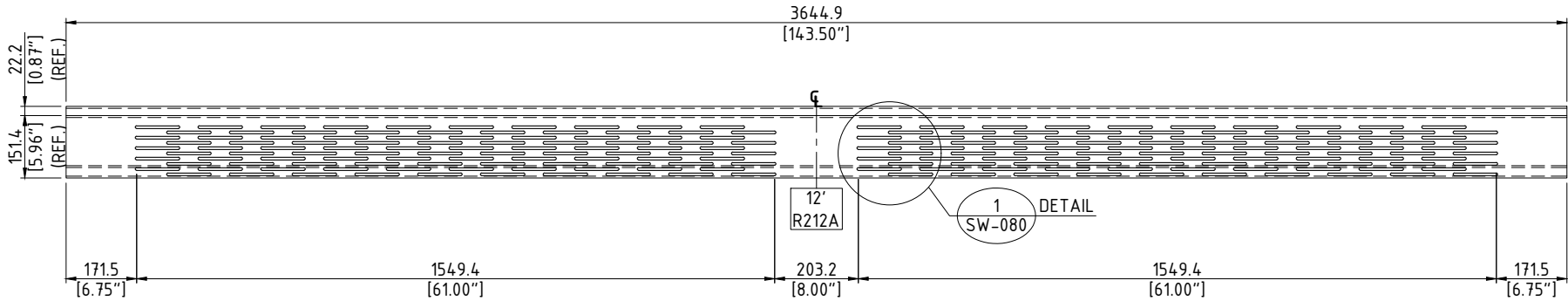
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1-866-231-7867

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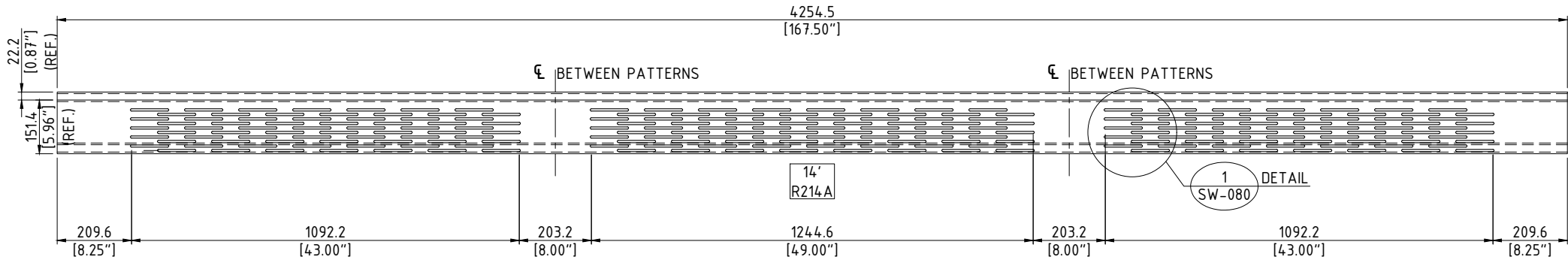
SOUNDWALLS - STANDARD DRAWING  
STANDARD PRODUCT DRAWINGS  
STANDARD PANEL DETAIL - SILENT PROTECTOR XL

DESIGNED -	-	BRANCH P.O. -	CUSTOMER REF. -
DES. CHK -	-	PROJECT NUMBER	DWG NO. SW-055
DRAWN BY -	-	STD DRAWING	REV. 1
DWG. CHK -	-		

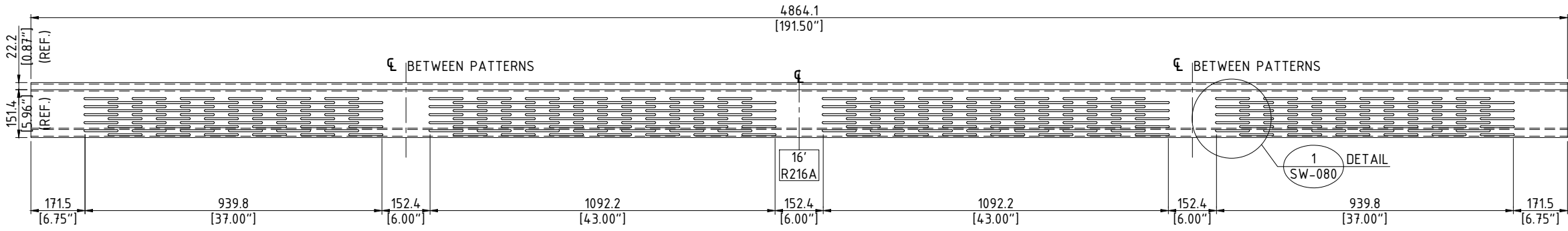
NOTES:  
1. DIMENSIONS ARE IN MILLIMETRES [INCHES]



SILENT PROTECTOR XL ROUTING PATTERN R212A - 3.645 m [143.5"] SECTION  
SCALE: N.T.S.



SILENT PROTECTOR XL ROUTING PATTERN R214A - 4.254 m [167.5"] SECTION  
SCALE: N.T.S.



SILENT PROTECTOR XL ROUTING PATTERN R216A - 4.864 m [191.5"] SECTION  
SCALE: N.T.S.

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1	31 JAN 24	BW	GENERAL REVISIONS
0	20 JUL 21	PAS	ISSUED AS STANDARD
REV NO.	DATE	BY	DESCRIPTION



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SOUNDWALLS - STANDARD DRAWING  
STANDARD PRODUCT DRAWINGS  
ROUTING DETAILS - SILENT PROTECTOR XL

DESIGNED	-	-	BRANCH P.O.	CUSTOMER REF.
DES. CHK	-	-	-	-
DRAWN BY	-	-	PROJECT	DWG NO.
DWG. CHK	-	-	NUMBER	SW-060
			STD DRAWING	REV. 1