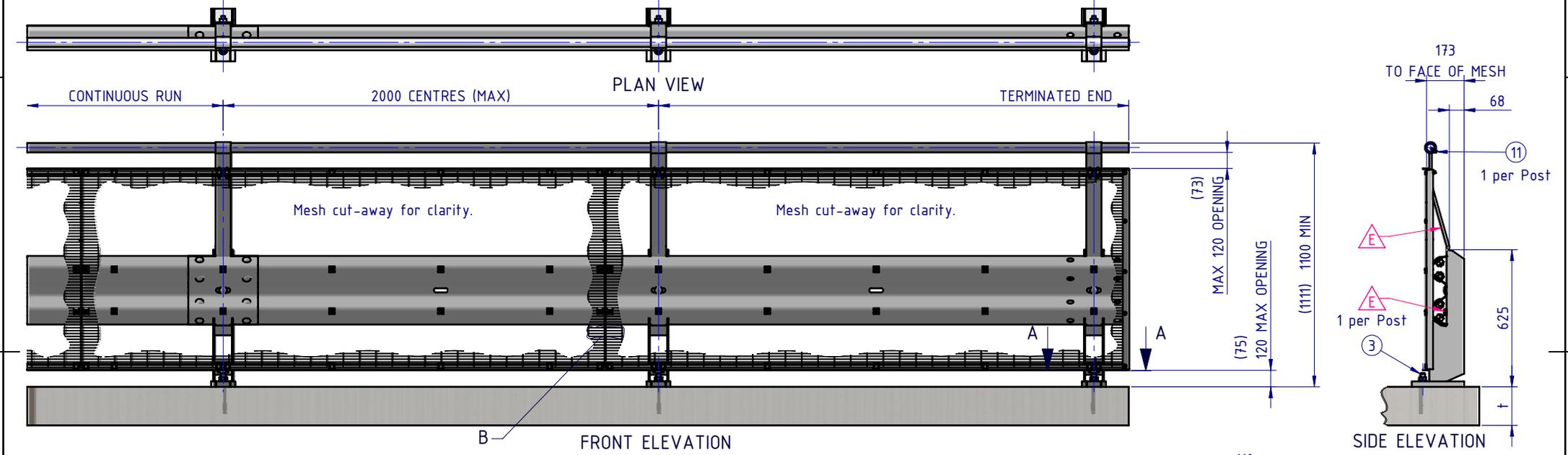


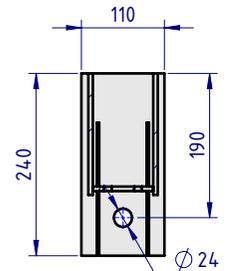
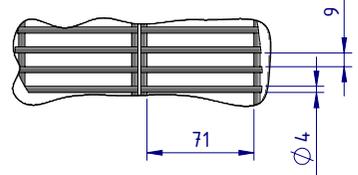
Crash Test Performance				
Vehicle Type	Impact Speed	Impact Height	Impact Energy	Barrier Configuration
1500 kg	15 km/h	0.5 m	12.9 kJ	4 m w-beam supported by three (3) posts at 2.0 m centres positioned on the outside edge of a 150 mm elevated concrete slab.
2000 kg	13 km/h	0.5 m	13.0 kJ	4 m w-beam supported by three (3) posts at 2.0 m centres positioned on the outside edge of a 150 mm elevated concrete slab.

C	NEW HANDRAIL EXTENSION ADDED	13/07/2017	TC
E	B6 Updated GR-MX-MX-0800-AG_E, M16x45 B/N ASSY was M16x35	16/11/2021	HW
F	Updated Mesh Panel fasteners to Guardrail at Post	19/04/2022	HW
G	Revision updated	09/02/2023	HW
H	PERFORMANCE & INSTALLATION REQ. TABLES ADDED	22/10/2025	HW

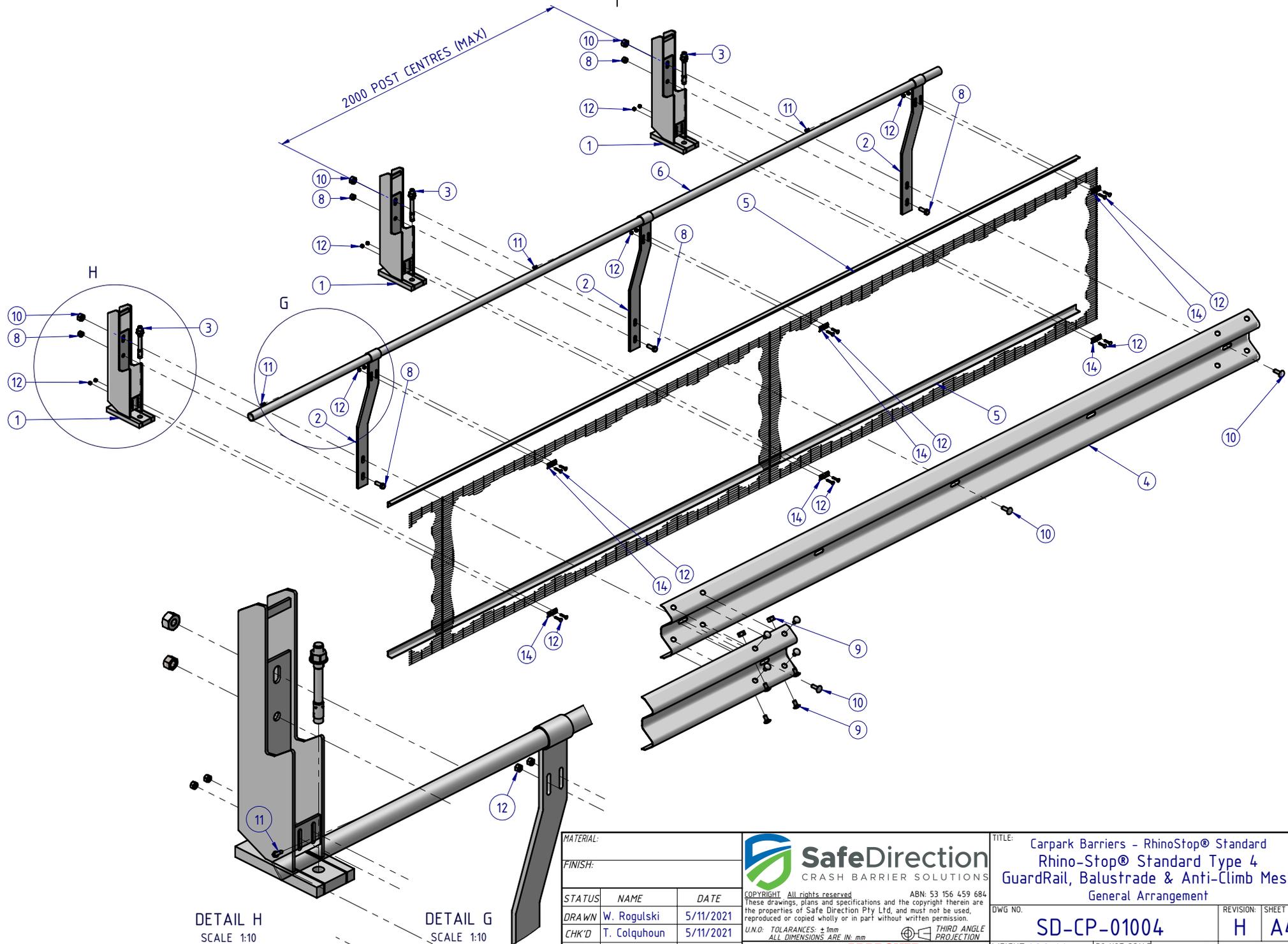
Installation Requirements				
Anchor Type	Drill Depth	Torque	Anchors per Post	Minimum Concrete Slab Thickness (t)
M20 Fischer FBN II	115 mm	200 Nm	1 off	150 mm



BOM			
ITEM NO.	PART NUMBER	Description	Weight kg
1	GR-PB-IS-0625-CG	Rhino-Stop® Post	12.3
2	GR-MX-MX-0800-AG	Handrail Extension Type 4	5.3
3	GR-FS-20-0187-HG	FISCHER FBN II, M20x187mm	0.5
4	GR-WB-SR-4000-CG	W-Beam Guardrail 4.0M NLL, 1.0M CTRS	43.3
5	GR-EA-30-6000-BG	Mesh Support Angle	6.6
6	HR-PI-32-6500-AG	Handrail / Sight Rail Pipe 32NB	20.1
7	GR-MX-MX-2409-AG	Mesh Infill Panel 2400x900, Ø4 wire, 71x9 aparture	4.0
8	GR-FS-16-0045-HG	M16x45 Hex Head Bolt & Nut Assy	0.0
9	GR-FS-16-0032-MG	M16x32 Mushroom Head SPLICE Bolt & Oversize Nut Assy CL8.8	0.2
10	GR-FS-16-0050-MG	M16x50 Mushroom Head POST Bolt & Oversize Nut Assy Class 4.6	0.2
11	GR-FS-14-0025-TG	14g x 25mm Hex Head Screw Self Tapping, 10 tpi, Class5, B8 Coating	
12	GR-FS-08-0040-MG	M8x40 Mushroom Head Bolt & Nut Assy Class 4.6 HDG	0.0
13	GR-FS-08-0025-MG	M8x25 Mushroom Head Bolt & Nut Assy CL4.6 HDG	0.0
14	GR-FS-08-0000-AG	M8 Square Hole Mesh Washer	0.0
15	GR-FS-12-0035-TG	12g x 35mm Hex Head Screw Self Tapping, 10 tpi, Class5, B8 Coating	
16	GR-EA-30-6000-BG	Mesh Support Angle	1.0
17	GE-FS-08-0025-HG	M8x25 Hex Head Screw Class 8.8 B Coating	
18	GE-FS-08-0000-HG	M8 Hex Nut Class5 B-Coating	



MATERIAL: FINISH:					TITLE: Carpark Barriers - RhinoStop® Standard Rhino-Stop® Standard Type 4 GuardRail, Balustrade & Anti-Climb Mesh General Arrangement												
<table border="1"> <thead> <tr> <th>STATUS</th> <th>NAME</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DRAWN</td> <td>W. Rogulski</td> <td>5/11/2021</td> </tr> <tr> <td>CHK'D</td> <td>T. Colquhoun</td> <td>5/11/2021</td> </tr> <tr> <td>APPV'D</td> <td>H. Wallace</td> <td>20/02/2026</td> </tr> </tbody> </table>					STATUS	NAME	DATE	DRAWN	W. Rogulski	5/11/2021	CHK'D	T. Colquhoun	5/11/2021	APPV'D	H. Wallace	20/02/2026	DWG NO.: SD-CP-01004 REVISION: H SHEET SIZE: A4
STATUS	NAME	DATE															
DRAWN	W. Rogulski	5/11/2021															
CHK'D	T. Colquhoun	5/11/2021															
APPV'D	H. Wallace	20/02/2026															
APPV'D: H. Wallace STATUS: APPROVED			WEIGHT: 682.4kg SCALE: 1:25 SHEET: 1 of 5		RIGHTS: All rights reserved. These drawings, plans and specifications and the copyright therein are the properties of Safe Direction Pty Ltd, and must not be used, reproduced or copied wholly or in part without written permission. U.N.O. TOLERANCES: ±1mm ALL DIMENSIONS ARE IN: mm THIRD ANGLE PROJECTION												



DETAIL H
SCALE 1:10

DETAIL G
SCALE 1:10

MATERIAL:		
FINISH:		
STATUS	NAME	DATE
DRAWN	W. Rogulski	5/11/2021
CHK'D	T. Colquhoun	5/11/2021
APPV'D	H. Wallace	20/02/2026

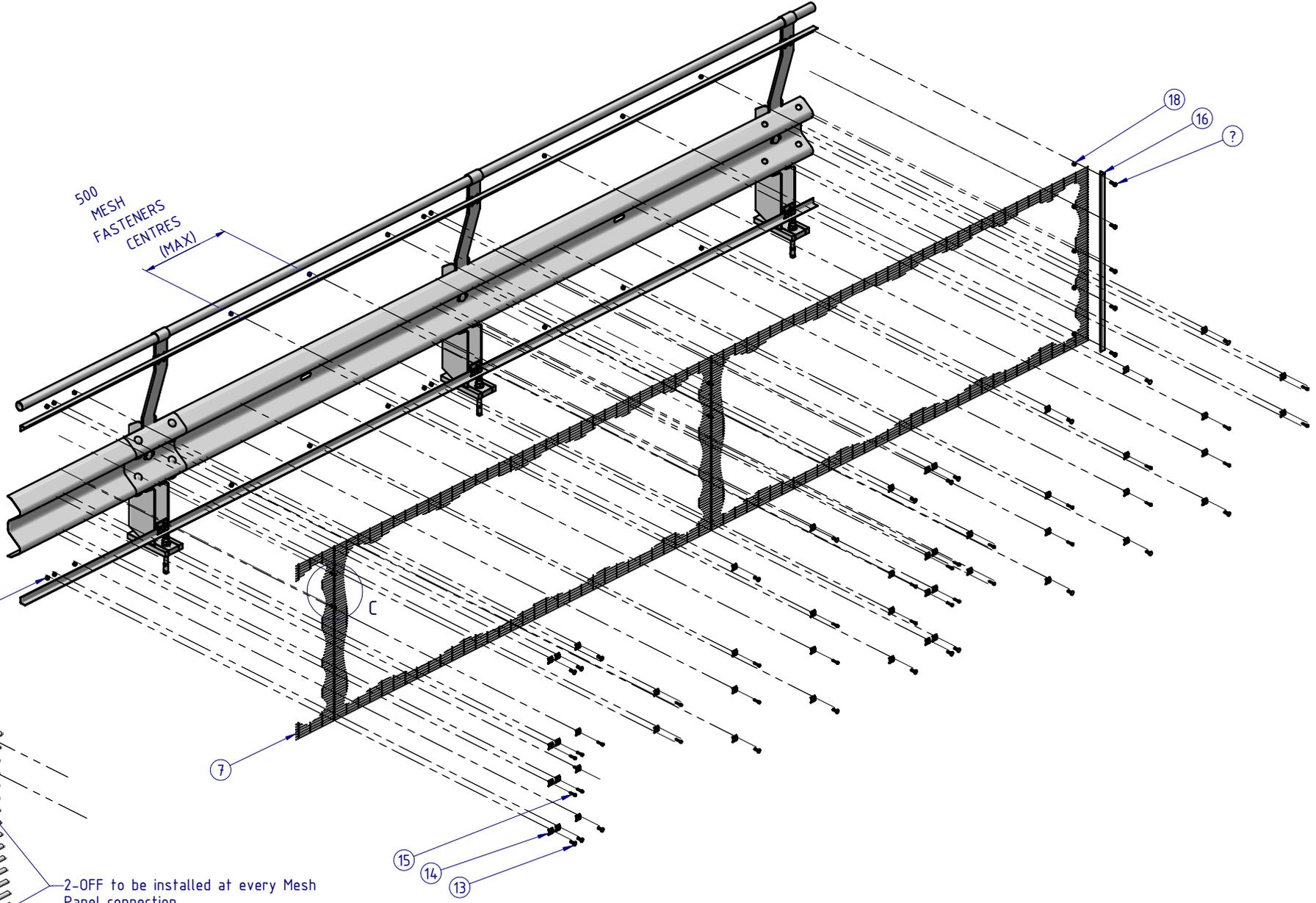
SafeDirection
CRASH BARRIER SOLUTIONS

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APPROVED

TITLE: Carpark Barriers - RhinoStop® Standard Rhino-Stop® Standard Type 4 GuardRail, Balustrade & Anti-Climb Mesh General Arrangement		
DWG NO:	REVISION:	SHEET SIZE
SD-CP-01004	H	A4
WEIGHT: 682.4kg	DO NOT SCALE DRAWING	SCALE: 1:25
		SHEET 2 of 5



500
MESH
FASTENERS
CENTRES
(MAX)

13

7

15

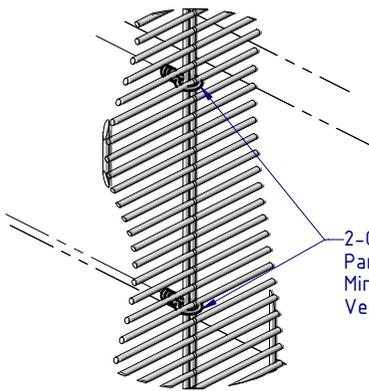
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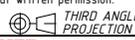
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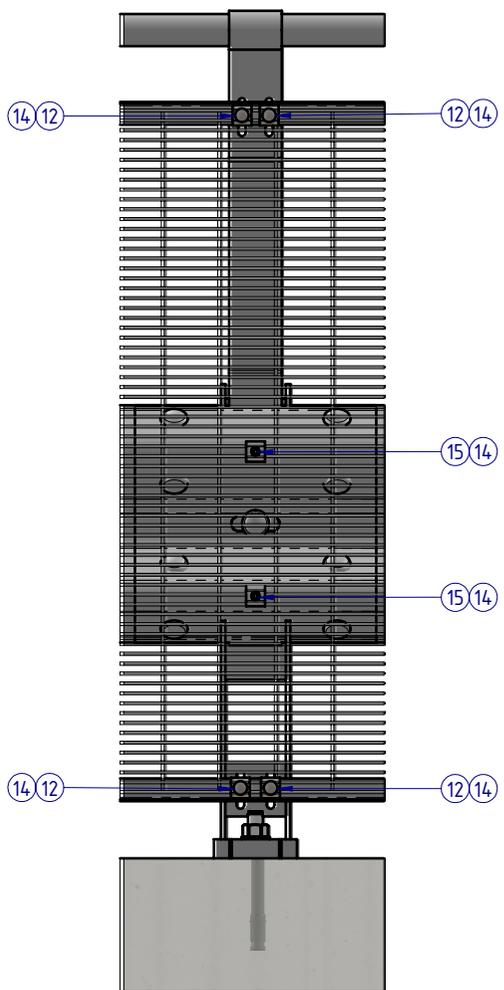
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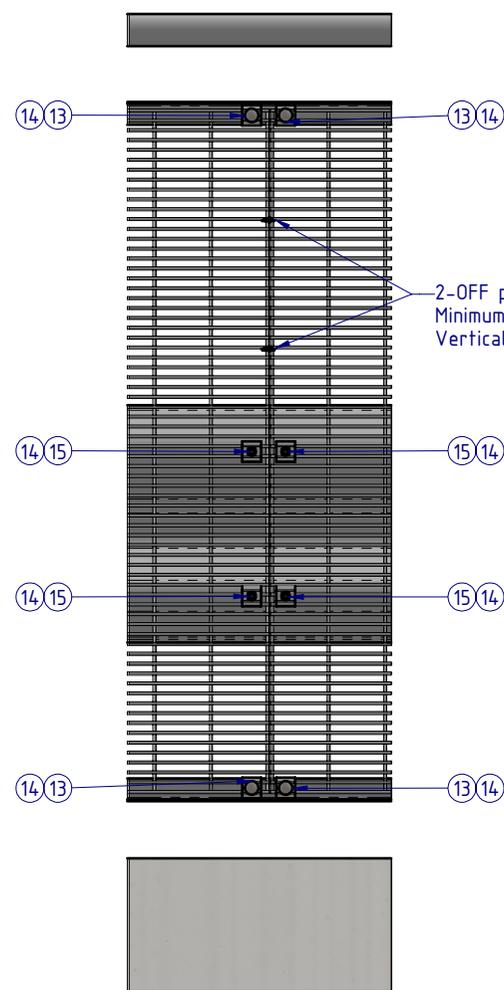
DETAIL C
SCALE 1:5

2-OFF to be installed at every Mesh Panel connection
Minimum Galvanised Wire Ø3, crimped
Vertically equispaced

MATERIAL:			 SafeDirection CRASH BARRIER SOLUTIONS		TITLE: Carpark Barriers - RhinoStop® Standard Rhino-Stop® Standard Type 4 GuardRail, Balustrade & Anti-Climb Mesh General Arrangement					
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STATUS	NAME	DATE	<small>U.N.O. TOLERANCES: ±1mm ALL DIMENSIONS ARE IN: mm</small>		 THIRD ANGLE PROJECTION		WEIGHT: 682.4kg	DO NOT SCALE DRAWING	SCALE: 1:25	SHEET 3 of 5
DRAWN	W. Rogulski	5/11/2021	APPROVED							
CHK'D	T. Colquhoun	5/11/2021								
APPV'D	H. Wallace	20/02/2026								

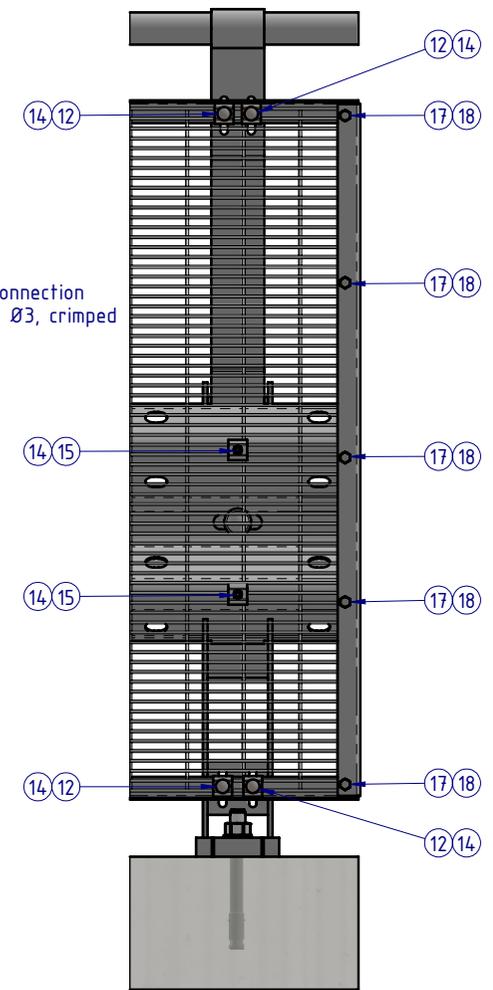


DETAIL D
AT POST CONNECTION

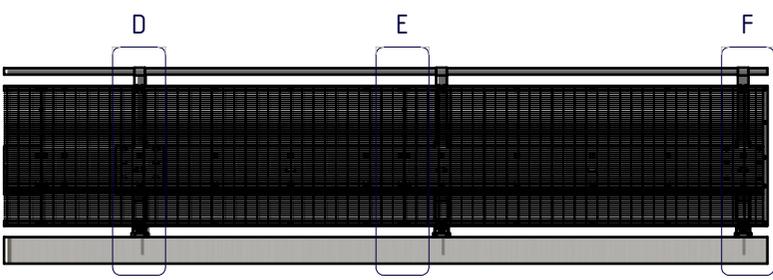
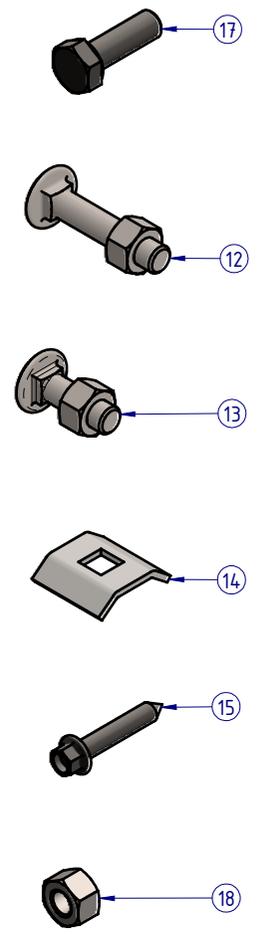


DETAIL E
MESH PANEL CONNECTION

2-OFF per Mesh Panel connection
Minimum Galvanised Wire Ø3, crimped
Vertically equispaced



DETAIL F
TERMINATION CONNECTION



MESH PANEL CONNECTION DETAILS

ALL FASTENERS TO BE USED AS SHOWN
ACCORDING TO CONNECTION TYPE

MATERIAL:		
FINISH:		
STATUS	NAME	DATE
DRAWN	W. Rogulski	5/11/2021
CHK'D	T. Colquhoun	5/11/2021
APPV'D	H. Wallace	20/02/2026

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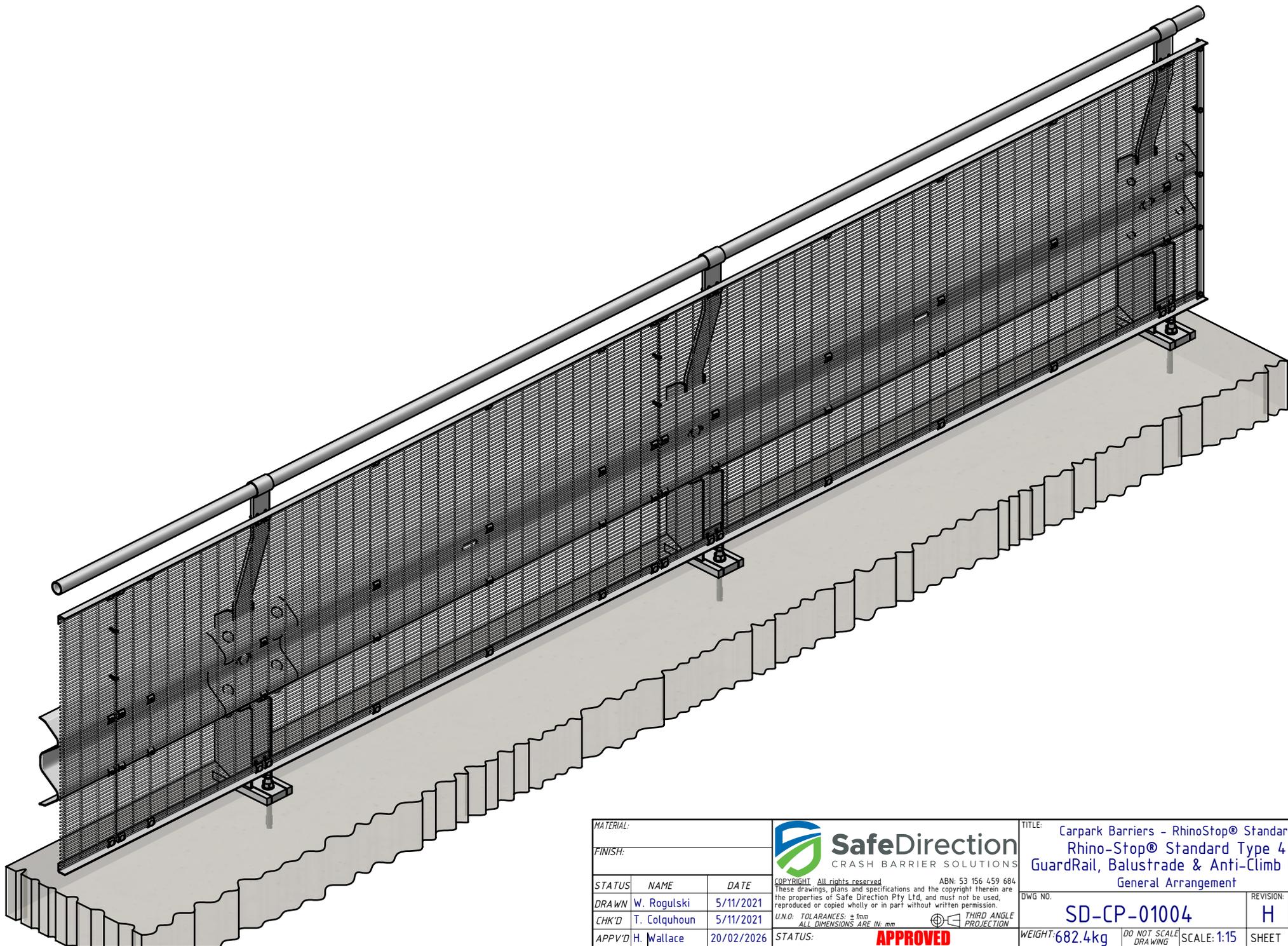
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THIRD ANGLE PROJECTION

APPROVED

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DWG NO.	REVISION:	SHEET SIZE	
SD-CP-01004	H	A4	
WEIGHT: 682.4kg	SCALE: 1:10	SHEET 4 of 5	



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FINISH:		
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