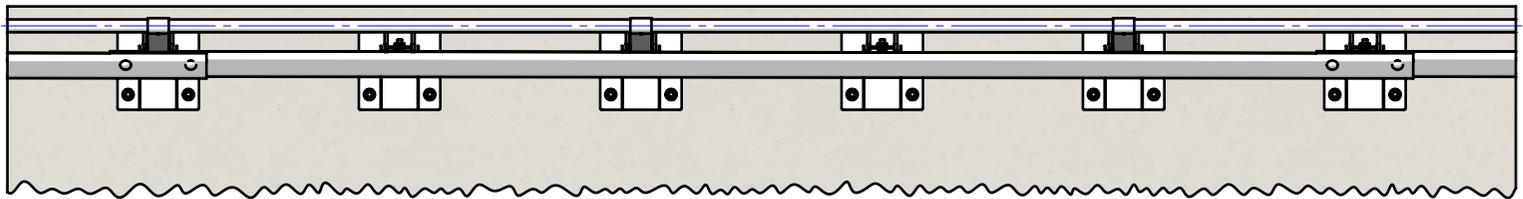


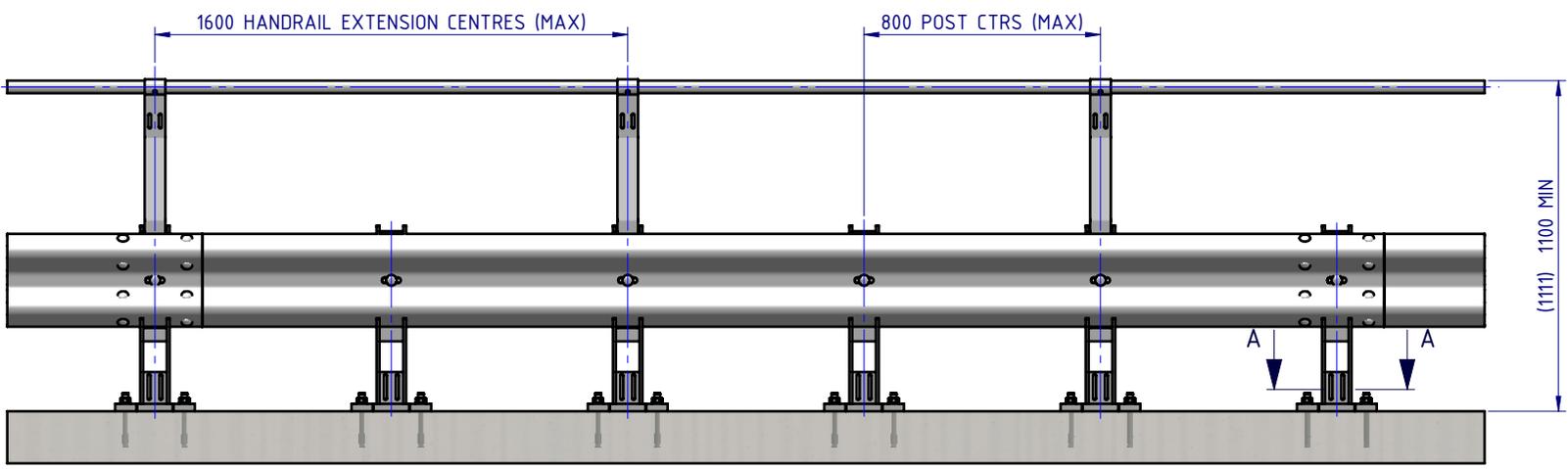
Crash Test Performance				
Vehicle Type	Impact Speed	Impact Height	Impact Energy	Barrier Configuration
2000 kg	30 km/h	0.5 m	67.2 kJ	4 m w-beam supported by six (6) posts at 0.8 m centres positioned on the outside edge of a 150 mm thick elevated concrete slab.
2000 kg	20 km/h	0.5 m	29.6 kJ	6 m w-beam supported by four (4) posts at 2.0 m centres positioned on the outside edge of a 150 mm thick elevated concrete slab.

REVISIONS				
REV.	ZONE	DESCRIPTION	DATE	APPV'D
A		Original Issue, supersedes GR-WB-171	20/07/2022	HW
B		Rhino-Stop Heavy Duty Post revision, updated	27/06/2025	HW
C		Performance & Installation Req. Tables Added	24/02/2026	HW

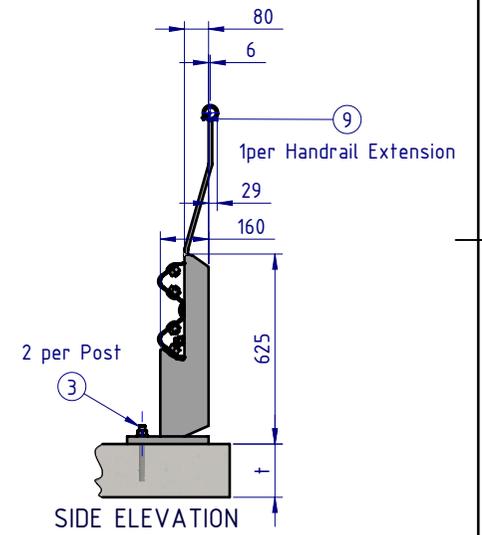
Installation Requirements				
Anchor Type	Drill Depth	Torque	Anchors per Post	Minimum Concrete Slab Thickness (t)
M20 Fischer FBN II	115 mm	200 Nm	2 off	150 mm



PLAN VIEW

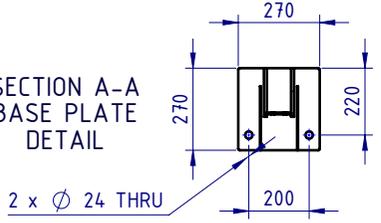


FRONT ELEVATION



SIDE ELEVATION

SECTION A-A
BASE PLATE
DETAIL



BOM			
ITEM NO.	PART NUMBER	DESCRIPTION	Weight kg
1	GR-PB-IS-0625-DG	Rhino-Stop® Heavy Duty Post	25.6
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-GG	W-Beam Guardrail 4.0m NLL, 0.8m CTRS	43.3
5	HR-PI-32-6500-AG	Handrail / Sight Rail Pipe 32NB	20.1
6	GR-FS-16-0045-HG	M16x45 Hex Head Bolt & Nut Assy	0.0
7	GR-FS-16-0032-MG	M16x32 Mushroom Head SPLICE Bolt & Oversize Nut Assy CL8.8	0.2
8	GR-FS-16-0050-MG	M16x50 Mushroom Head POST Bolt & Oversize Nut Assy Class 4.6	0.2
9	GR-FS-14-0025-TG	14g x 25mm Hex Head Screw Self Tapping, 10 tpi, Class5, B8 Coating	

MATERIAL:		
FINISH:		
STATUS	NAME	DATE
DRAWN	W. Rogulski	20/07/2022
CHK'D	T. Colquhoun	11/09/2025
APPV'D	H. Wallace	11/09/2025

SafeDirection
CRASH BARRIER SOLUTIONS

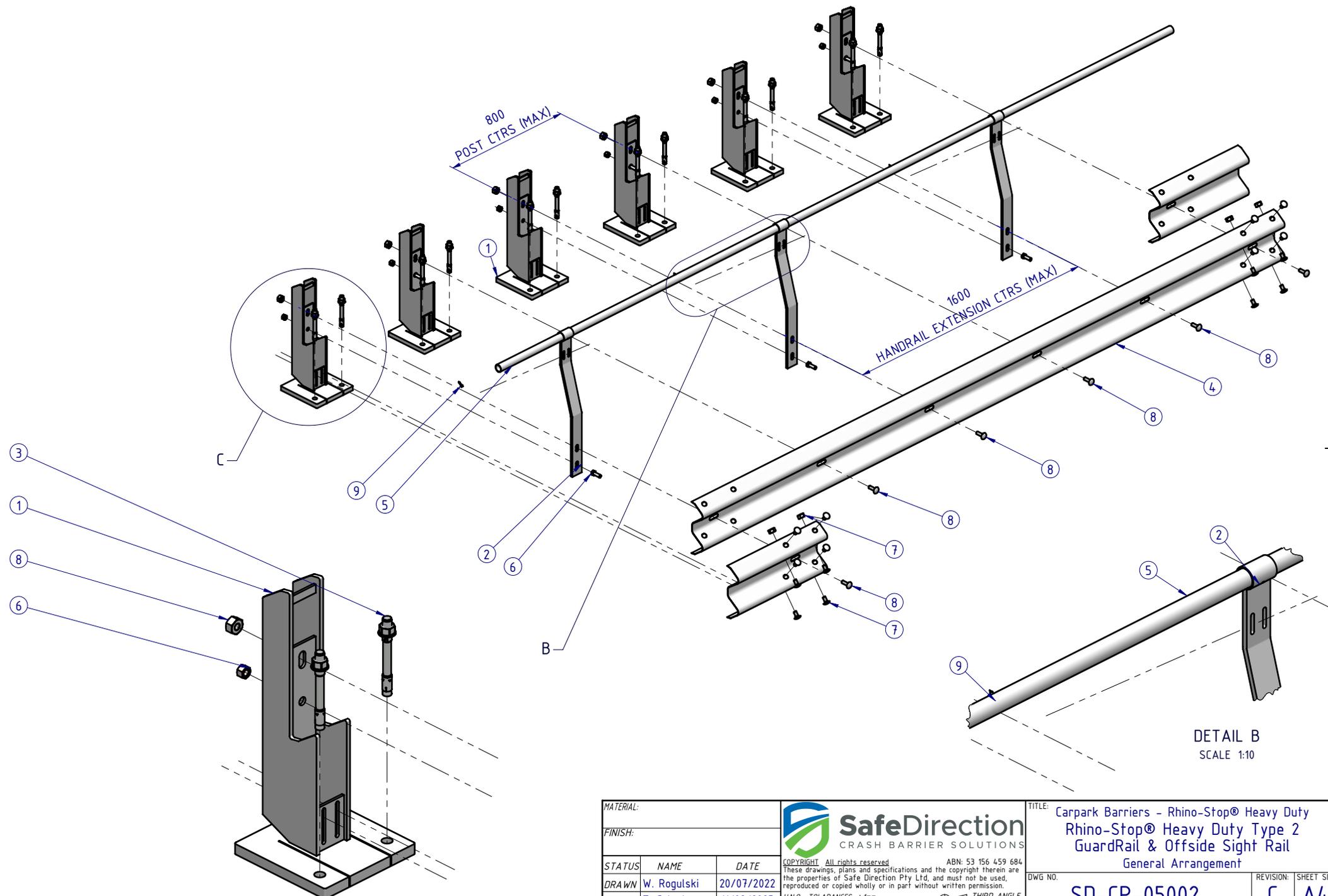
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U.N.O. TOLERANCES: ±1mm
ALL DIMENSIONS ARE IN: mm

THIRD ANGLE PROJECTION

APPROVED

TITLE: Carpark Barriers - Rhino-Stop® Heavy Duty Rhino-Stop® Heavy Duty Type 2 GuardRail & Offside Sight Rail General Arrangement			
DWG NO.	REVISION:	SHEET SIZE	
SD-CP-05002	C	A4	
WEIGHT: 780.9kg	SCALE: 1:25	SHEET 1 of 3	



DETAIL C
SCALE 1:10

DETAIL B
SCALE 1:10

MATERIAL:		
FINISH:		
STATUS	NAME	DATE
DRAWN	W. Rogulski	20/07/2022
CHK'D	T. Colquhoun	11/09/2025
APPV'D	H. Wallace	11/09/2025

SafeDirection
CRASH BARRIER SOLUTIONS

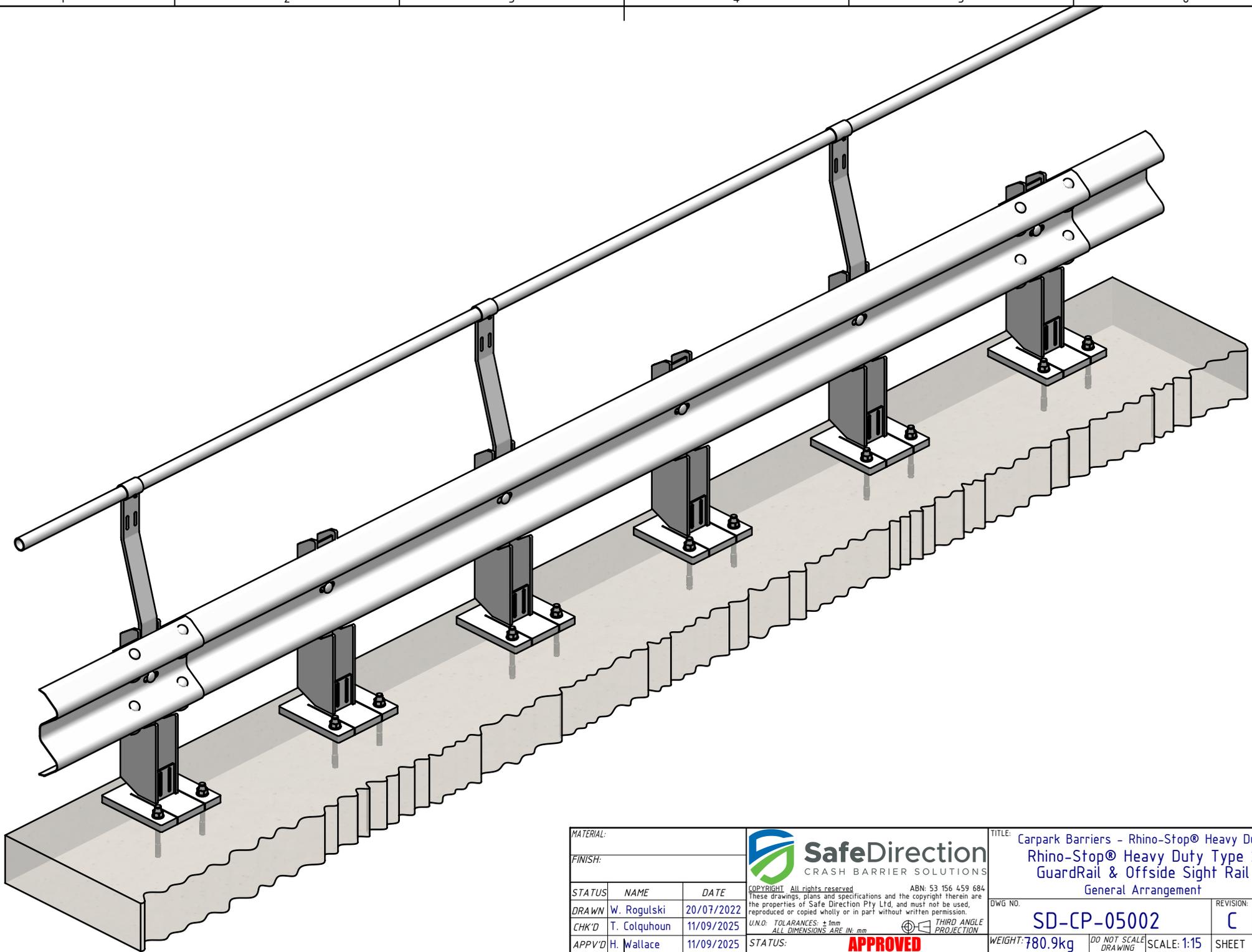
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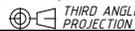
U.N.O. TOLERANCES: ±1mm
ALL DIMENSIONS ARE IN: mm

THIRD ANGLE PROJECTION

APPROVED

TITLE: Carpark Barriers - Rhino-Stop® Heavy Duty Rhino-Stop® Heavy Duty Type 2 GuardRail & Offside Sight Rail General Arrangement			
DWG NO.	REVISION:	SHEET SIZE	
SD-CP-05002	C	A4	
WEIGHT: 780.9kg	DO NOT SCALE DRAWING	SCALE: 1:25	SHEET 2 of 3



MATERIAL:			 SafeDirection CRASH BARRIER SOLUTIONS	TITLE: Carpark Barriers - Rhino-Stop® Heavy Duty Rhino-Stop® Heavy Duty Type 2 GuardRail & Offside Sight Rail General Arrangement		
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STATUS	NAME	DATE	<small>U.N.O. TOLERANCES: ±1mm ALL DIMENSIONS ARE IN: mm</small>  THIRD ANGLE PROJECTION	DWG NO.	REVISION:	SHEET SIZE
DRAWN	W. Rogulski	20/07/2022		SD-CP-05002	C	A4
CHK'D	T. Colquhoun	11/09/2025		WEIGHT: 780.9kg		
APPV'D	H. Wallace	11/09/2025		SCALE: 1:15		SHEET 3 of 3
STATUS: APPROVED			<small>DO NOT SCALE DRAWING</small>			