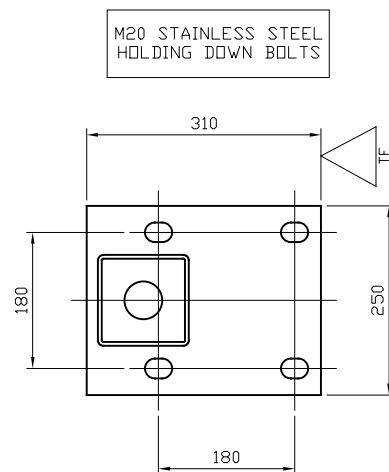
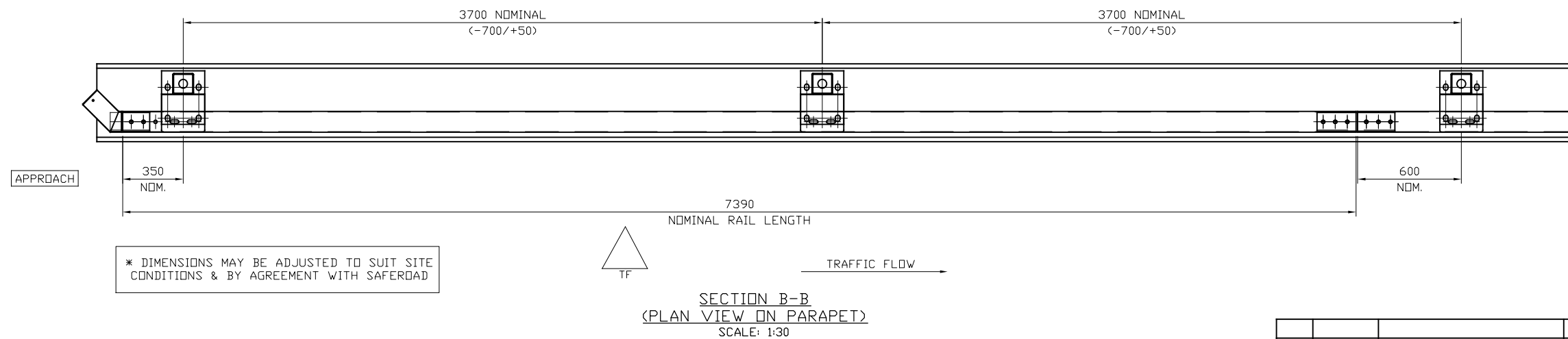
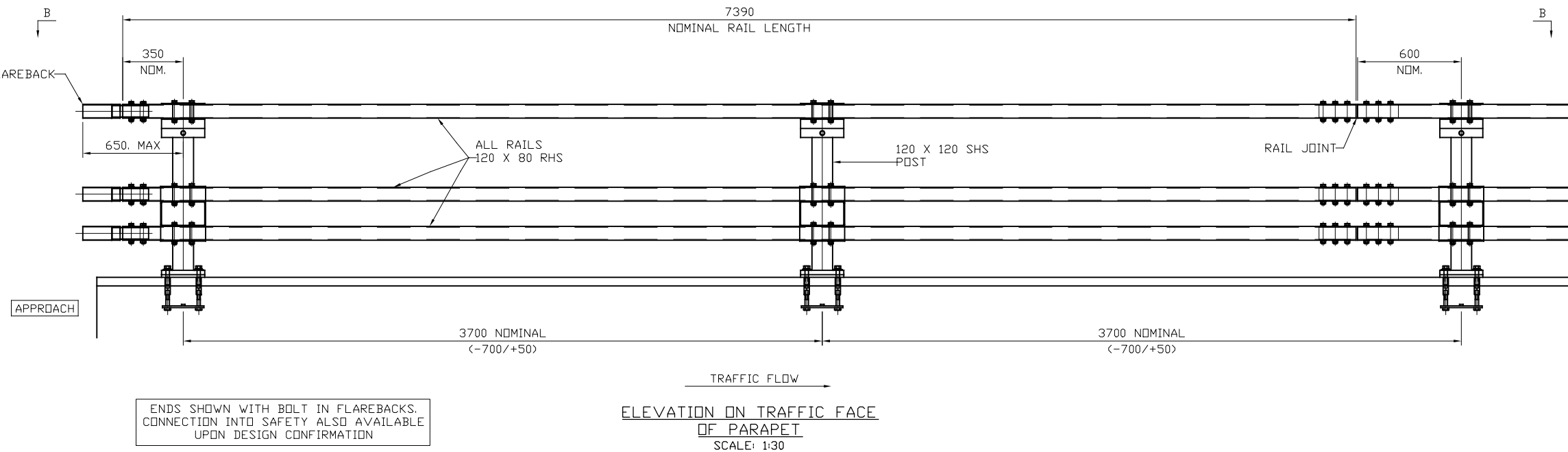
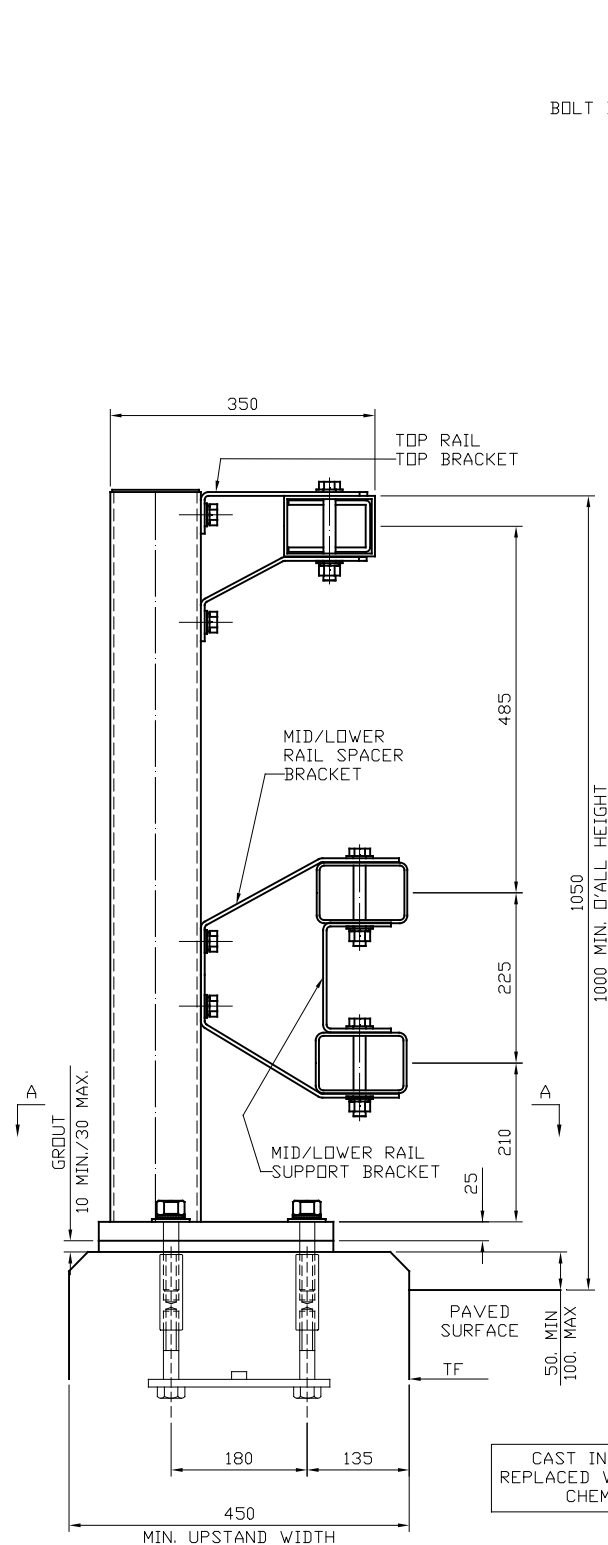




GENERAL NOTES/SPECIFICATIONS:

- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL STEEL SECTIONS TO BE IN ACCORDANCE WITH BS.EN. 10025-2, BS EN 10219-1 & BS EN 10219-2.
- ALL MATERIAL TO BE GALVANISED TO BS EN ISO 1461:2009.
- HOLDING DOWN SETSCREWS TO BE TO BS 3692 & BE ST. STEEL TO BS EN ISO 3506-1 GRADE A4 CLASS 80. ALL OTHER BOLTS/SETSCREWS TO BE GALVANISED STEEL TO CONFORM TO BS 3692 & BS EN ISO 4014 GRADE 8.8.
- ALL NUTS TO BE GALVANISED STEEL TO CONFORM TO BS 3692 & BS EN ISO 4032 GRADE 8.
- GALVANISED PLAIN WASHERS TO CONFORM TO BS 4320.
- SPRING WASHERS TO CONFORM TO BS 4464.
- STAINLESS STEEL WASHERS TO BE GRADE A4.
- PARAPET PERFORMANCE IS TO BS EN 1317-1 & BS EN 1317-2.
 - IMPACT TEST CRITERIA:- TB11/TB32.
 - CONTAINMENT LEVEL:- N2
 - NORMALISED WORKING WIDTH:- W1 (0.6m)
 - IMPACT SEVERITY LEVEL:- B
 - NORMALISED DYNAMIC DEFLECTION VALUE:- 0.4m
- POSTS TO BE VERTICAL TO WITHIN $\pm 15\text{mm}$ OVER 1000mm
- RAILS TO BE SET IN A FLOWING LINE MINIMUM HEIGHT OF 1000mm ABOVE ADJOINING ROAD/PAVED SURFACE.

01	11/07/22	UPDATED DIMENSIONS & PERFORMANCE UPDATE	H.B
REV.	DATE	REMARKS	SIG.
TITLE:-			
GENERAL ARRANGEMENT SAFEROAD SN2W1 VEHICLE PARAPET			
1.00M NOM. HEIGHT - 3 RAIL 110km/h TRAFFIC SPEED			
SAFEROAD® VRS LTD Concord House Bessemer Way Scunthorpe North Lincolnshire, DN15 8XE Tel: 01724 289119 Fax: 01724 281478			
DRAWN:- H.BRYDON	CHECKED:- R.B	DRAWING SIZE:- A3	
DATE:- 14/01/22	SCALE:- AS SHOWN	APPROVED:-	
DRG NO:- SN2W1-GA-001			REV:- 01

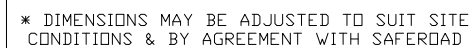
REV.N.	DATE	REMARKS	SIGNATURE	
TITLE:—				
GENERAL ARRANGEMENT				
SAFEROAD SN2W1				
VEHICLE PARAPET				
1.25M NOM. HEIGHT — 4 RAIL				
110km/h TRAFFIC SPEED				
SAFEROAD® VR5 LTD Concord House Bessemer Way Scunthorpe North Lincolnshire, DN15 8XE Tel: 01724 289119 Fax: 01724 281478				
DRAWN:— H.BRYDON		CHECKED:— R.B		DRAWING SIZE:— A3
DATE:— 04/07/22		SCALE:— AS SHOWN		APPROVED:—
DRG NO:— SN2W1—GA—002				REV:— 00



- PLASTIC MOMENT OF RESISTANCE - 34.6kNm
- CO-EXISTANT SHEAR FORCE CAPACITY - 63.3kN



ELEVATION ON TRAFFIC FACE
OF PARAPET
SCALE: 1:30



SECTION B-B
(PLAN VIEW ON PARAPET)
SCALE: 1:30

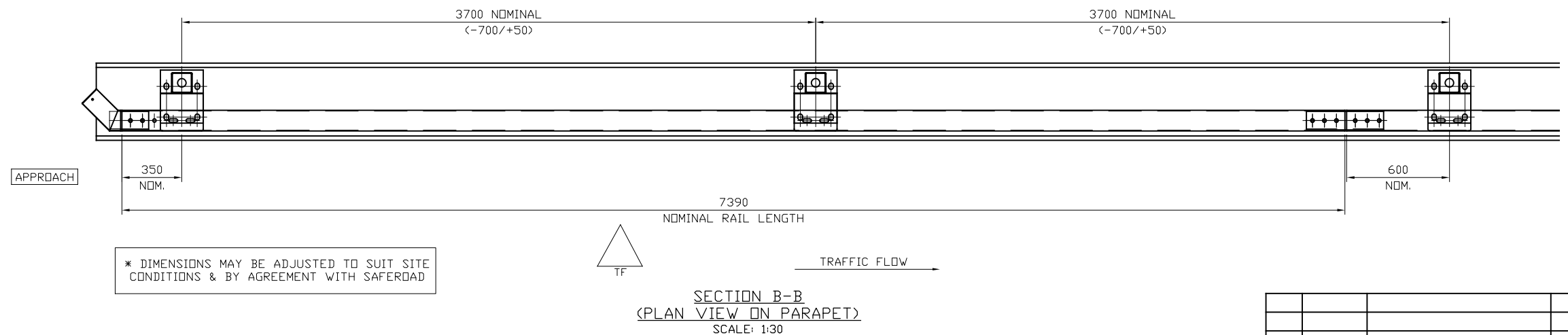


10. POSTS TO BE VERTICAL TO WITHIN $\pm 15\text{mm}$ OVER 1000mm
11. RAILS TO BE SET IN A FLOWING LINE MINIMUM HEIGHT OF 1000mm ABOVE
ADJOINING ROAD/PAVED SURFACE.

REV.N.	DATE	REMARKS	SIGNATURE	
TITLE:—				
GENERAL ARRANGEMENT				
SAFEROAD SN2W1				
VEHICLE PARAPET				
1.40M NOM. HEIGHT — 4 RAIL				
110km/h TRAFFIC SPEED				
SAFEROAD® VR5 LTD Concord House Bessemey Way Scunthorpe North Lincolnshire, DN15 8XE Tel: 01724 289119 Fax: 01724 281478				
DRAWN:— H.BRYDON		CHECKED:— R.B		DRAWING SIZE:— A3
DATE:— 04/07/22		SCALE:— AS SHOWN		APPROVED:—
DRG NO:— SN2W1—GA—003				REV:— 00



- PLASTIC MOMENT OF RESISTANCE - 34.6kNm
- CO-EXISTANT SHEAR FORCE CAPACITY - 63.3kN

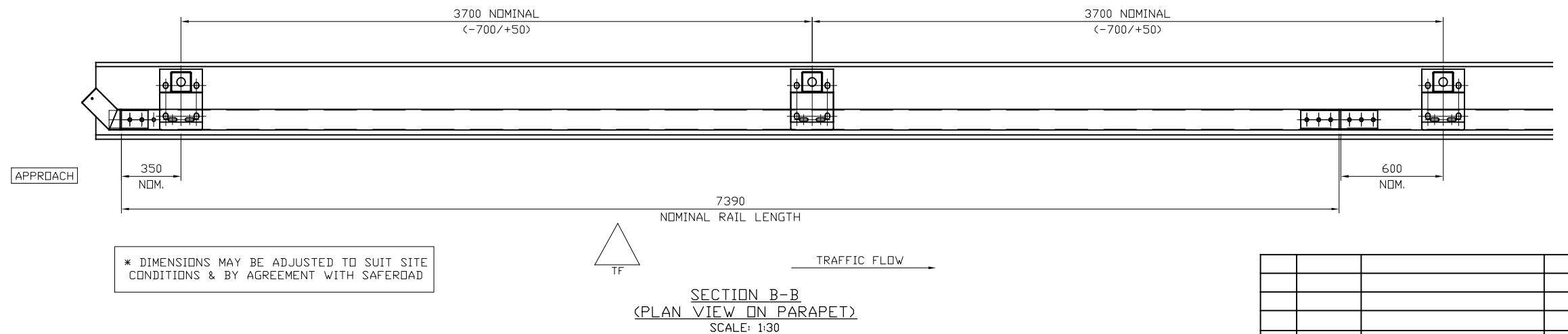


10. POSTS TO BE VERTICAL TO WITHIN $\pm 15\text{mm}$ OVER 1000mm
11. RAILS TO BE SET IN A FLOWING LINE MINIMUM HEIGHT OF 1000mm ABOVE
ADJOINING ROAD/PAVED SURFACE.

REVN.	DATE	REMARKS	SIG.
TITLE:-			
GENERAL ARRANGEMENT			
SAFEROAD SN2W1			
VEHICLE PARAPET			
1.50M NOM. HEIGHT - 4 RAIL			
110km/h TRAFFIC SPEED			
SAFEROAD® VRS LTD Concord House Bessemers Way Scunthorpe North Lincolnshire, DN15 8XE Tel: 01724 289119 Fax: 01724 281478			
DRAWN:- H.BRYDON	CHECKED:- R.B	DRAWING SIZE:- A3	
DATE:- 04/07/22	SCALE:- AS SHOWN	APPROVED:-	
DRG NO:- SN2W1-GA-004			REV:- 00



- PLASTIC MOMENT OF RESISTANCE - 34.6kNm
- CO-EXISTANT SHEAR FORCE CAPACITY - 63.3kN



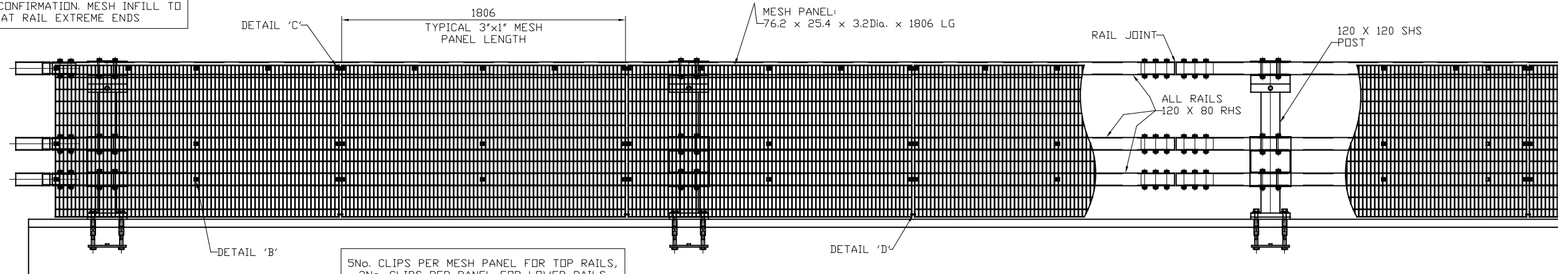
1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL STEEL SECTIONS TO BE IN ACCORDANCE WITH BS.EN. 10025-2, BS EN 10219-1 & BS EN 10219-2.
3. ALL MATERIAL TO BE GALVANISED TO BS EN ISO 1461:2009.
4. HOLDING DOWN SETSCREWS TO BE TO BS 3692 & BE ST. STEEL TO BS EN ISO 3506-1 GRADE A4 CLASS 80. ALL OTHER BOLTS/SETSCREWS TO BE GALVANISED STEEL TO CONFORM TO BS 3692 & BS EN ISO 4014 GRADE 8.8.
5. ALL NUTS TO BE GALVANISED STEEL TO CONFORM TO BS 3692 & BS EN ISO 4032 GRADE 8.
6. GALVANISED PLAIN WASHERS TO CONFORM TO BS 4320.
7. SPRING WASHERS TO CONFORM TO BS 4464.
8. STAINLESS STEEL WASHERS TO BE GRADE A4.
9. PARAPET PERFORMANCE IS TO BS EN 1317-1 & BS EN 1317-2.
 - 9.1. IMPACT TEST CRITERIA:- TB11/TB32.
 - 9.2. CONTAINMENT LEVEL:- N2
 - 9.3. NORMALISED WORKING WIDTH:- W1 (0.6m)
 - 9.4. IMPACT SEVERITY LEVEL:- B
 - 9.5. NORMALISED DYNAMIC DEFLECTION VALUE:- 0.4m
10. POSTS TO BE VERTICAL TO WITHIN $\pm 15\text{mm}$ OVER 1000mm
11. RAILS TO BE SET IN A FLOWING LINE MINIMUM HEIGHT OF 1000mm ABOVE ADJOINING ROAD/PAVED SURFACE.

REV.N.	DATE	REMARKS	SIG.
TITLE:-- GENERAL ARRANGEMENT SAFEROAD SN2W1 VEHICLE PARAPET 1.80M NOM. HEIGHT -- 5 RAIL 110km/h TRAFFIC SPEED			
SAFEROAD® VRS LTD Concord House Bessemer Way Scunthorpe North Lincolnshire, DN15 8XE Tel: 01724 289119 Fax: 01724 281478			
DRAWN:-- H.BRYDON		CHECKED:-- R.B	DRAWING SIZE:-- A3
DATE:-- 04/07/22		SCALE:-- AS SHOWN	APPROVED:--
DRG NO:-- SN2W1-GA-005			REV:-- 00

DRG NO:-	SN2W1-001-M2	REV:-	00
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ENDS SHOWN WITH BOLT IN FLAREBACKS.
CONNECTION INTO SAFETY ALSO AVAILABLE
UPON DESIGN CONFIRMATION. MESH INFILL TO
FINISH AT RAIL EXTREME ENDS

MESH PANELS TO BE EITHER: MILD STEEL
GALVANISED TO BS EN ISO 1461 OR
STAINLESS STEEL GRADE 304



ELEVATION ON TRAFFIC FACE
OF 3"x1" MESH INFILL ARRANGEMENT
SCALE: 1:30

ALUMINIUM HALF MESH CLIP
FIXED TO PARAPET RAIL
USING 4.8 DRIVE RIVET
(TYPICAL TO ALL RAILS)

ALUMINIUM HALF MESH CLIP
FIXED TO PARAPET RAIL
USING 4.8 DRIVE RIVET
(TYPICAL TO EACH PANEL
JOINT LOCATION)

BOTTOM OF ADJACENT MESH
PANELS TO BE FIXED USING
A SHERADIZED 'C' CLIP
(1No. CLIP PER JOINT)

MESH TO STOP/START AT
EXPANSION LOCATIONS

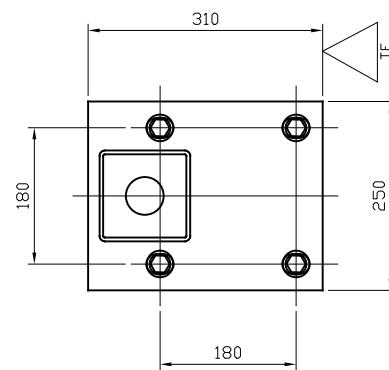
DETAIL 'B'
(INTERMEDIATE MESH FIXING DETAIL)
SCALE: 1:5

DETAIL 'C'
(MESH JOINT DETAIL)
SCALE: 1:5

DETAIL 'D'
(BOTTOM OF PANEL JOINT)
SCALE: 1:5

EXPANSION JOINT DETAIL
SCALE: 1:5

M20 STAINLESS STEEL
HOLDING DOWN BOLTS



SECTION A-A
(BASEPLATE DETAIL)
SCALE: 1:10

CAST IN ANCHOR CRADLE MAY BE
REPLACED WITH A SAFEROAD APPROVED
CHEMICAL ANCHOR SYSTEM

SECTION THROUGH ON PARAPET
SCALE: 1:10

PERFORMANCE VALUES:

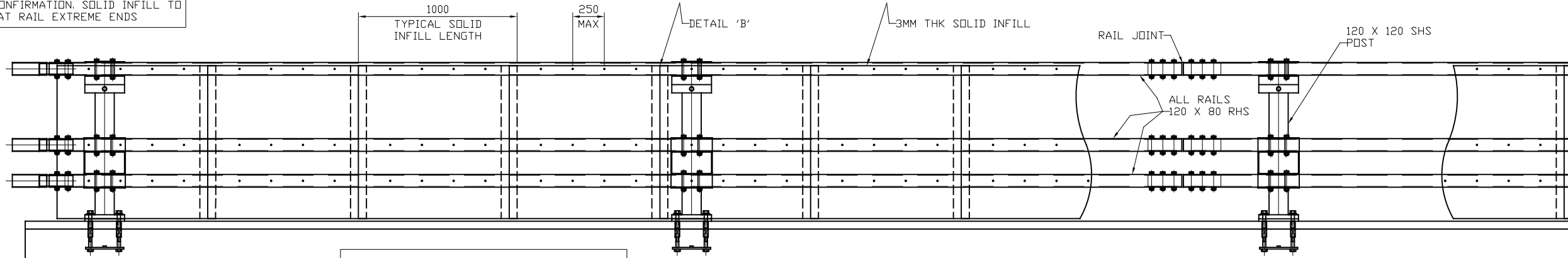
- PLASTIC MOMENT OF RESISTANCE - 34.6kNm
- CO-EXISTANT SHEAR FORCE CAPACITY - 63.3kN

GENERAL NOTES/SPECIFICATIONS:

- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
- PARAPET HEIGHT & UPSTAND INDICATIVE ONLY. REFER TO CONTRACT SPECIFIC DETAILS.
- TYPICAL MESH PANEL SIZE: 76.2 x 25.4 x 3.2Dia x 1806 x HEIGHT SUITABLE TO PARAPET HEIGHT. MESH CUT FLUSH ALL ROUND.
- MESH TO BE EITHER MILD STEEL GALVANISED TO BS EN ISO 1461 OR STAINLESS STEEL GRADE 304.
- ALL HOLES CUT INTO HOLLOW SECTIONS ARE TO BE CLEAN CUT, NORMAL TO THE SURFACE & THE CORRECT SIZE FOR THE FIXINGS.
- ANY HOLES DAMAGED IN PREPERATION FOR THE DRIVE RIVETS MUST BE PLUGGED WITH OR REPLACED BY AN OVERSIZED DRIVE RIVET OR SELF TAPPING SCREW C/W MASTIC WASHER.
- MESH CLIPS TO BE ALUMINIUM 6082-T6

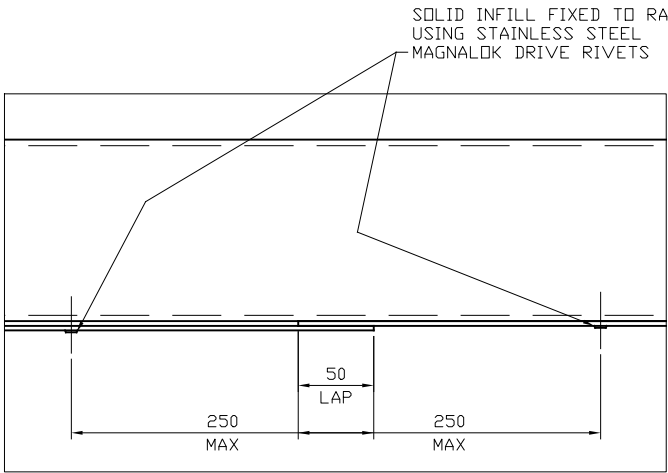
REVN.	DATE	REMARKS	SIG.
TITLE:-			
GENERAL ARRANGEMENT SAFEROAD SN2W1 VEHICLE PARAPET			
3"x1" MESH INFILL DETAILS			
SAFEROAD [®]			
VRS LTD Concord House Bessmer Way Scunthorpe North Lincolnshire, DN15 8XE Tel: 01724 289119 Fax: 01724 281478			
DRAWN:- H.BRYDON	CHECKED:- R.B	DRAWING SIZE:- A3	
DATE:- 04/07/22	SCALE:- AS SHOWN	APPROVED:-	
DRG NO:- SN2W1-001-M1			REV:- 00

ENDS SHOWN WITH BOLT IN FLAREBACKS.
CONNECTION INTO SAFETY ALSO AVAILABLE
UPON DESIGN CONFIRMATION. SOLID INFILL TO
FINISH AT RAIL EXTREME ENDS

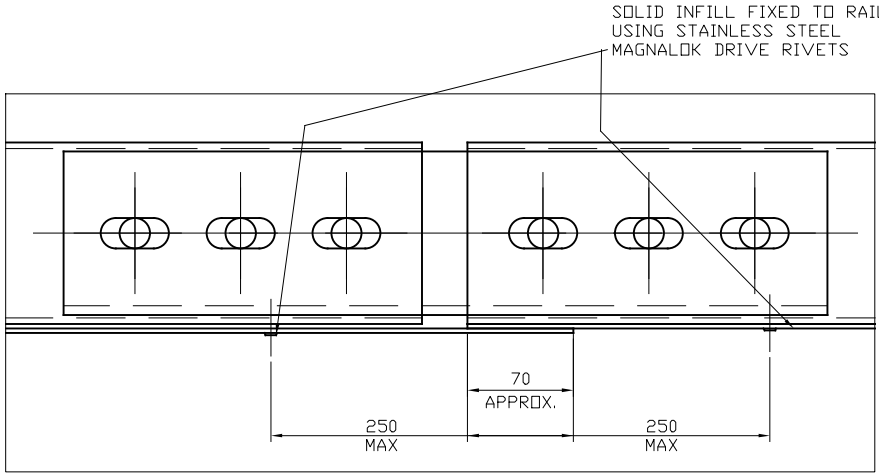


4No. RIVETS PER RAIL, PER PANEL AT MAX
250MM CENTRES

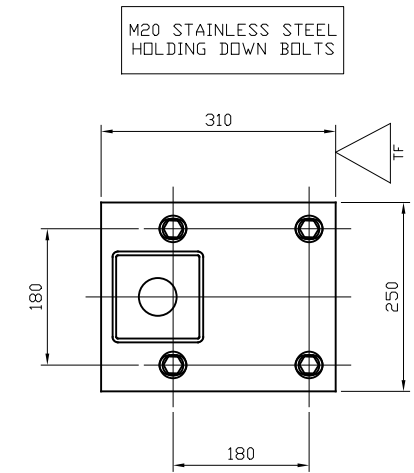
ELEVATION ON TRAFFIC FACE
OF SOLID INFILL ARRANGEMENT
SCALE: 1:30



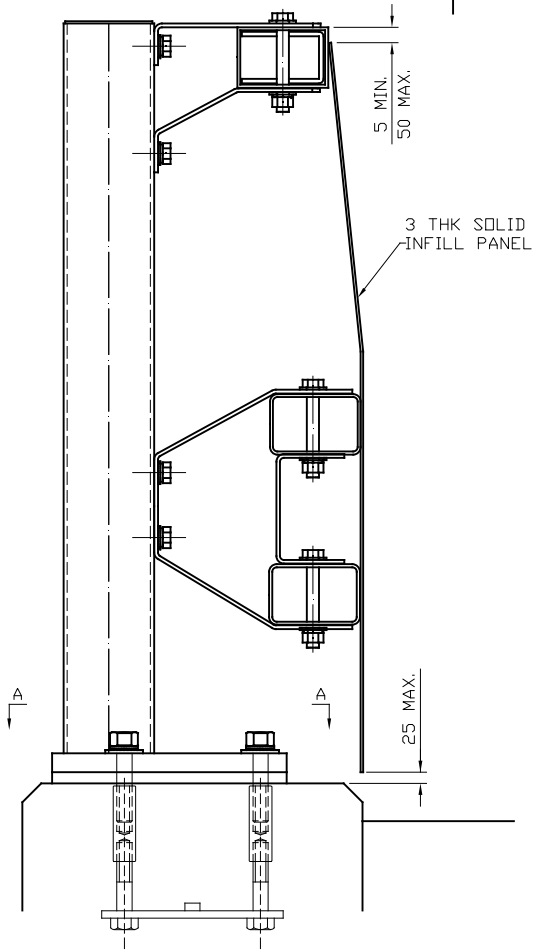
DETAIL 'B'
(TYPICAL PANEL LAP DETAIL)
SCALE: 1:5



EXPANSION JOINT LAP DETAIL
SCALE: 1:5



SECTION A-A
(BASEPLATE DETAIL)
SCALE: 1:10



CAST IN ANCHOR CRADLE MAY BE
REPLACED WITH A SAFEROAD APPROVED
CHEMICAL ANCHOR SYSTEM

SECTION THROUGH ON PARAPET
SCALE: 1:10

PERFORMANCE VALUES:

- PLASTIC MOMENT OF RESISTANCE - 34.6kNm
- CO-EXISTANT SHEAR FORCE CAPACITY - 63.3kN

GENERAL NOTES/SPECIFICATIONS:

- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
- PARAPET HEIGHT & UPSTAND INDICATIVE ONLY. REFER TO CONTRACT SPECIFIC DETAILS.
- SOLID INFILL PANELS TO BE 1000LG X 3THK MILD STEEL AND GALVANISED. LENGTHS CAN BE SHORTER TO ENDS OF PARAPET & AT EXPANSION JOINT LOCATIONS IF REQUIRED.
- ALL HOLES CUT INTO THE HOLLOW SECTIONS ARE TO BE CLEAN CUT, NORMAL TO THE SURFACE & THE CORRECT SIZE FOR THE FIXINGS.
- ANY HOLES DAMAGED IN PREPERATION FOR RIVETS OR SELF TAPPING SCREWS MUST BE PLUGGED WITH OR REPLACED BY AN OVERSIZED RIVET OR SELF TAPPING SCREW C/W MASTIC WASHER.
- ANY VERTICAL EDGES OF PANELS AT EITHER THE ENDS OF THE PARAPET OR AT EXPANSION JOINT LOCATIONS THAT ARE 20MM OR MORE OUT OF VERTICAL TO BE CUT TO THE APPROPRIATE ANGLE & A TRIMMING WIRE TO BE WELDED ON.
- FOR MATERIALS WEIGHTS, REFER TO COMPONENT DRAWINGS

REVN.	DATE	REMARKS	SIG.
TITLE:-			
GENERAL ARRANGEMENT SAFEROAD SN2W1 VEHICLE PARAPET			
SOLID INFILL DETAILS			
SAFEROAD [®] VRS LTD Concord House Bessmer Way Scunthorpe North Lincolnshire, DN15 8XE Tel: 01724 289119 Fax: 01724 281478			
DRAWN:- H.BRYDON	CHECKED:- R.B	DRAWING SIZE:- A3	
DATE:- 04/07/22	SCALE:- AS SHOWN	APPROVED:-	
DRG NO:- SN2W1-001-C1			REV:- 00