

REVn	DATE	DETAILS	INITIAL
09	18/12/25	MINOR DETAIL CHANGE	H.B
08	21/11/24	M16x45 CODE UPDATED	H.B
07	21/12/23	PART NUMBERS UPDATED	H.B
06	19/12/23	DETAILS UPDATED	H.B
05	17/07/23	LAP BOLT CHANGE	H.B
04	14/07/23	LAP BOLT DETAILS REVISED	H.B
03	19/06/23	SOCKET SIZES UPDATED	H.B
02	09/06/23	SMP DETAIL UPDATED	H.B
01	19/05/23	COMPONENT DETAILS UPDATED	H.B
00	30/08/22	DRAWING CREATED	H.B

MEGARAIL EP-C120 N2/W1

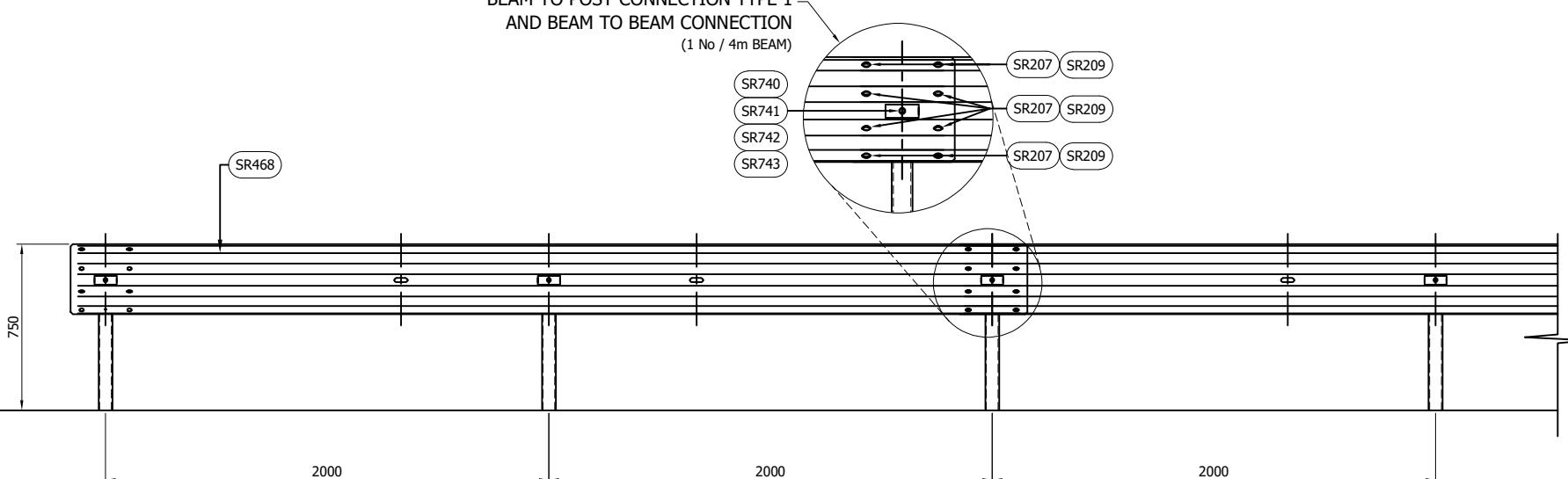
COMPONENTS SCHEMATIC



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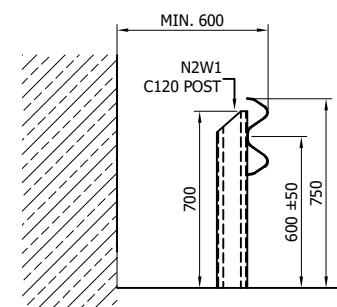
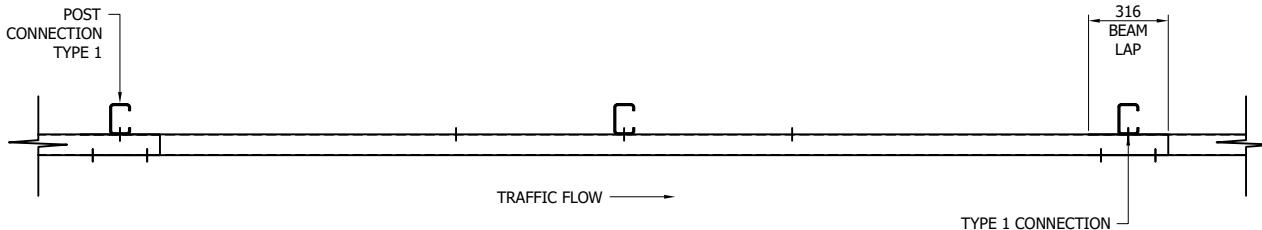
DRAWING NUMBER: MR-C120N2W1-GA-00 REV: 09

BEAM TO POST CONNECTION TYPE 1
AND BEAM TO BEAM CONNECTION
(1 No / 4m BEAM)



GENERAL NOTES:

1. POSTS ARE TO BE INSTALLED WITH THE CLOSED FACE OF THE CHANNEL TOWARDS THE ON-COMING TRAFFIC.
2. FOR OPTIONS ON POST FOUNDATIONS REFER TO DRAWING NUMBER MR-GA-020
3. FOR DEVIATIONS IN SYSTEM POST PITCH REFER TO DRAWING MR-C120N2W1-GA-40
4. WHEN TYING INTO ADJACENT VRS ONLY ONE WORKING WIDTH DIFFERENCE IS PERMITTED.
5. SEE MR-GA-001 & MR-GA-003 FOR DETAILS OF SYSTEM HEIGHTS WITH REFERENCE TO SETBACK & KERB HEIGHT.
6. FOR MINIMUM LENGTH OF FULL HEIGHT VRS REFER TO SAFEROAD MEGARAIL MANUAL.
7. EXPANSION BEAMS TO BE USED WHEN THE SYSTEM PASSES OVER A MOVEMENT JOINT



POSTS SHOWN IN BELOW TABLE
ARE FOR VERGE INSTALLATIONS ONLY.
CENTRAL RESERVE POST VARIANTS
TO BE USED WHEN REQUIRED

SYSTEM COMPONENT SCHEDULE - QUANTITIES / 4m BEAM		
SAFEROAD UK PART NUMBER	DESCRIPTION	QUANTITY
SR468	'A' PROFILE BEAM x 3mm THICK	1
SEE TABLES	N2W1 C120 POST x 5mm THICK	2
FOR SCHEDULE OF BOLTED CONNECTIONS REFER TO DRAWING NUMBER MR-C120N2W1-GA-02		

SCHEDULE OF VERGE POSTS REFERENCE NUMBERS AND LENGTHS	
SAFEROAD UK PART NUMBER	POST LENGTH
SR475	2400
SR474	2000
SR473	1800
SR472	1100
SR471	SURFACE MOUNTED

SCHEDULE OF CENTRAL RESERVE POSTS REFERENCE NUMBERS AND LENGTHS	
SAFEROAD UK PART NUMBER	POST LENGTH
SR533	2400
SR532	2000
SR531	1800
SR530	1100
SR534	SURFACE MOUNTED

04	21/11/24	M16x45 CODE UPDATED	H.B
03	21/12/23	PART NUMBERS UPDATED	H.B
02	17/07/23	LAP BOLT CHANGE	H.B
01	19/05/23	NOTE REMOVED	H.B
00	30/08/22	DRAWING CREATED	H.B
REVn	DATE	DETAILS	INITIAL

MEGARAIL EP-C120 N2/W1

SYSTEM ASSEMBLY AND SETTING OUT ARRANGEMENT SCHEMATIC

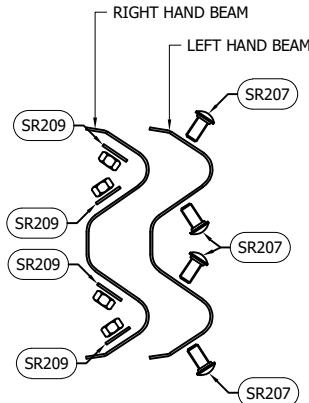
SAFEROAD

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DRAWING NUMBER: **MR-C120N2W1-GA-01** REVn: **04**

GENERAL NOTES:

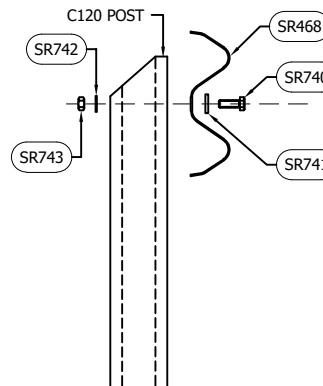
1. NUMBERS IN THE SCHEDULES SUFFIXED (+) DENOTES THE ADDITIONAL QUANTITY OF COMPONENTS REQUIRED FOR EXTREME ENDS OF INDIVIDUAL RUNS OF BARRIER.



BEAM TO BEAM LAP
CONNECTION ARRANGEMENT
(PER BEAM END)

** BEAM REFERENCES i.e. LEFT / RIGHT HAND ARE FOR VERGE
INSTALLATIONS; FOR CENTRAL RESERVATION INSTALLATIONS THE
REFERENCES ARE REVERSED

BEAM TO BEAM LAP BOLTING SCHEDULE		
SAFEROAD UK PART NUMBER	DESCRIPTION	QTY'S P/BEAM
SR207	SETSCREW 8.8 HRK M16x30 c/w NUT	8 (+8)
SR209	M16 WASHER 18Ø HOLE x 38	8 (+8)



BEAM TO POST FIXING SCHEMATIC
(CONNECTION TYPE 1)

TOTAL QUANTITIES PER POST		
SAFEROAD PART NUMBER	DESCRIPTION	BEAM TO POST CONNECTION
SR740	SETSCREW 8.8 M16 x 45	1
SR741	WASHER PLATE 115 x 40 x 5 DIA. 18	1
SR742	WASHER M16 18Ø HOLE	1
SR743	M16 HEXAGON NUT	1

REVn	DATE	DETAILS	INITIAL
04	21/11/24	M16x45 CODE UPDATED	H.B
03	21/12/23	PART NUMBERS UPDATED	H.B
02	17/07/23	LAP BOLT CHANGE	H.B
01	19/05/23	FLANGE NUTS ADDED	H.B
00	30/08/22	DRAWING CREATED	H.B

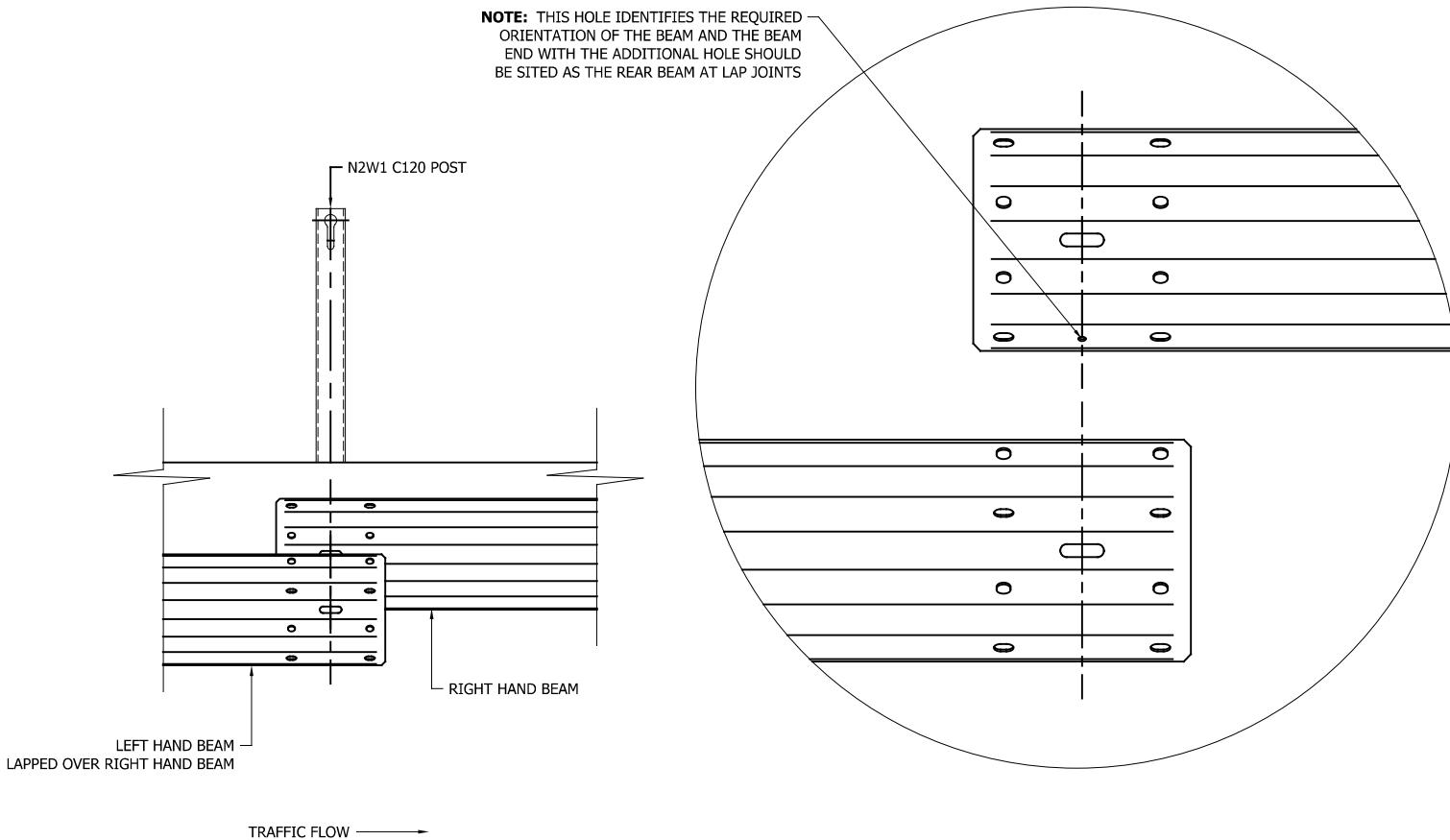
MEGARAIL EP-C120 N2/W1

FIXING AND INSTALLATION
SCHEMATIC

SAFEROAD

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DRAWING NUMBER: MR-C120N2W1-GA-02 REVn: 04



GENERAL NOTES:

1. POSTS ARE TO BE INSTALLED WITH THE CLOSED FACE OF THE CHANNEL TOWARDS THE ON-COMING TRAFFIC.

REVn	DATE	DETAILS	INITIAL
03	21/11/24	DRAWING UPDATED	H.B
02	21/12/23	LOGO UPDATED	H.B
01	19/05/23	NOTE REMOVED	H.B
00	30/08/22	DRAWING CREATED	H.B

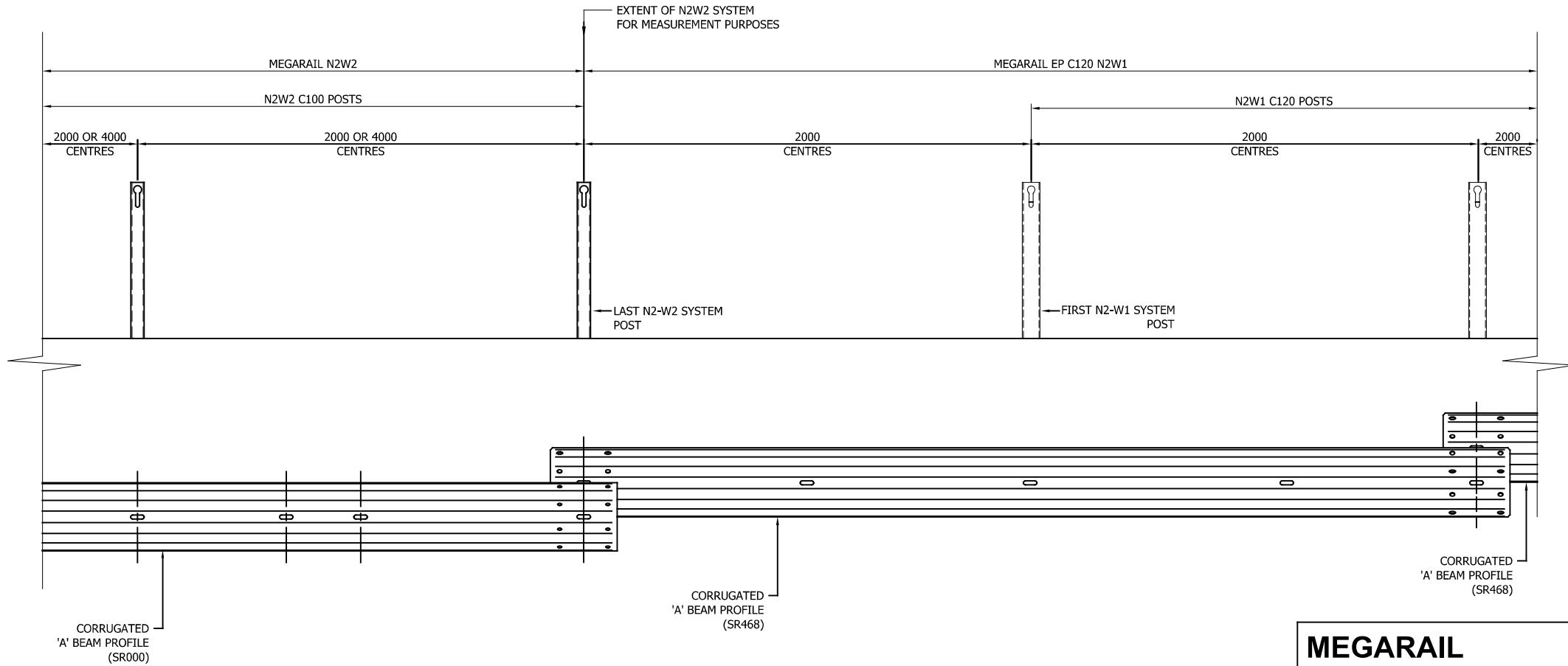
MEGARAIL EP-C120 N2/W1

BEAM LAPPING DETAILS



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DRAWING NUMBER: MR-C120N2W1-GA-03 REVn: 03



MEGARAIL EP-C120 N2/W1

SYSTEM PROGRESSION DETAILS



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REVn	DATE	DETAILS	INITIAL
03	21/11/24	DRAWING UPDATED	H.B
02	21/12/23	PART NUMBERS UPDATED	H.B
01	19/05/23	DETAIL UPDATED	H.B
00	30/08/22	DRAWING CREATED	H.B
		DRAWING NUMBER:	REVn:
		MR-C120N2W1-GA-20	03

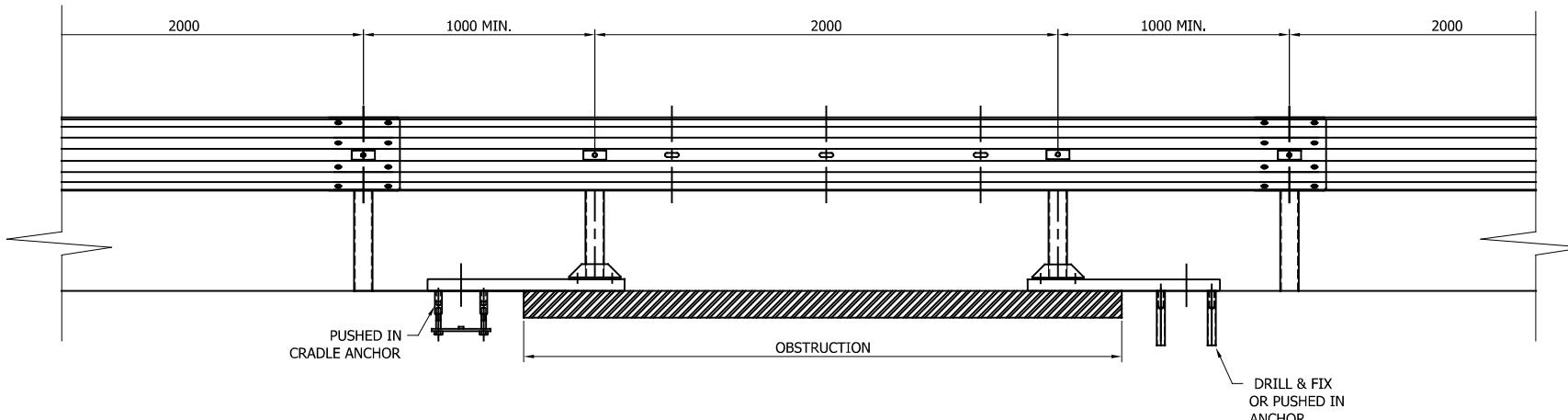
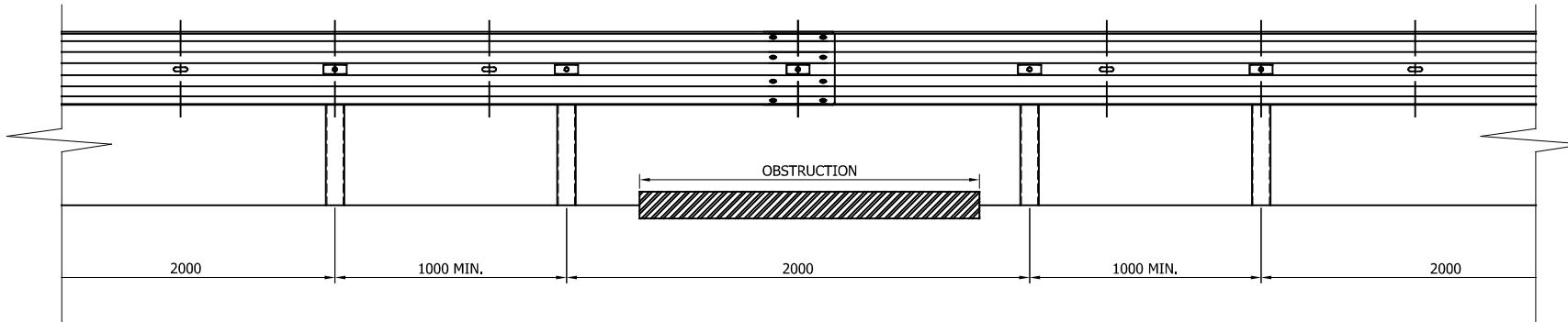
GENERAL NOTES:

1. POSTS ARE TO BE INSTALLED WITH THE CLOSED FACE OF THE CHANNEL TOWARDS THE ON-COMING TRAFFIC.

** BEAM REFERENCES i.e. LEFT / RIGHT HAND ARE FOR VERGE INSTALLATIONS; FOR CENTRAL RESERVATION INSTALLATIONS THE REFERENCES ARE REVERSED

GENERAL NOTES:

1. IF THE SITE CONDITIONS DO NOT ALLOW A POST TO BE INSTALLED ON THE SYSTEM PITCH DEVIATIONS CAN BE APPLIED. THE OBSTRUCTED POST CAN BE LEFT OUT AND EXTRA POSTS INSTALLED TO SPAN THE OBSTRUCTION AS PER THIS DRAWING. ALTHOUGH IT WOULD BE BENEFICIAL TO USE THE HOLES ALREADY IN THE BEAM IT IS ACCEPTABLE TO DRILL NEW HOLES IN THE DESIRED POSITIONS AND TREAT WITH ZINC RICH PAINT.
2. OFFSET POSTS SHOWN ON DRAWING MR-C120N2W1-GA-00 CAN BE USED.



REVn	DATE	DETAILS	INITIAL
03	21/11/24	DRAWING UPDATED	H.B
02	21/12/23	LOGO UPDATED	H.B
01	19/05/23	DEVIATION TOLERANCE CHANGE	H.B
00	30/08/22	DRAWING CREATED	H.B

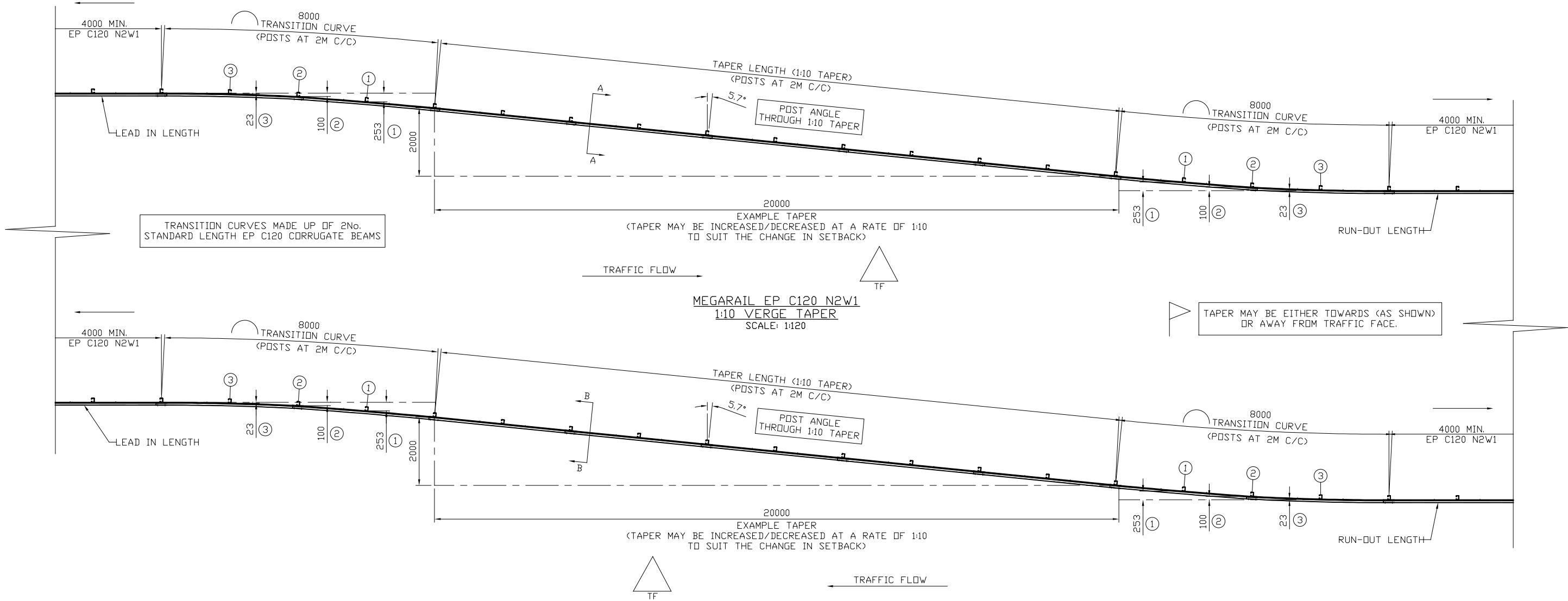
MEGARAIL EP-C120 N2/W1

DETAILS OF PERMISSIBLE
DEVIATIONS FOR POST POSITIONS

SAFEROAD

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DRAWING NUMBER:	REVn:
MR-C120N2W1-GA-40	03

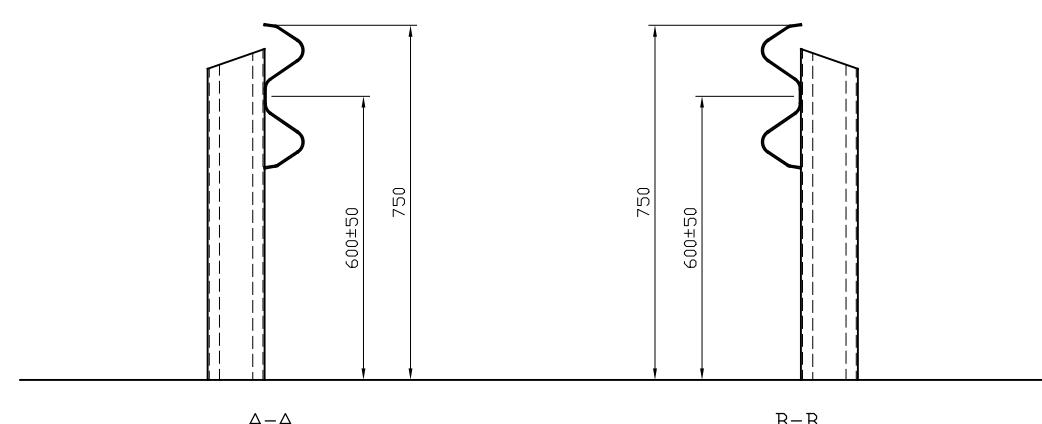


GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. FOR GENERAL DETAILS REGARDING MEGARAIL EP C120 N2W1, SEE SYSTEM MANUAL DRAWINGS
3. FOR MINIMUM LENGTH OF FULL HEIGHT VRS, REFER TO SAFEROAD MEGARAIL MANUAL.
4. CHANGES IN HORIZONTAL ALIGNMENT BETWEEN THE LEAD IN AND RUN-OUT LENGTHS OF MEGARAIL EP C120 ARE TO TAKE PLACE UNIFORMLY OVER THE TAPER LENGTH
5. WHERE CHANGES IN HORIZONTAL ALIGNMENT OCCUR (WHICH MAY ALSO BE DUE TO THE ALTERNATE METHODOLOGY FOR DETERMINING REFERENCE HEIGHT OF BARRIERS - REFER TO MR-GA-001) THIS MAY RESULT IN LOCAL ISLOATED AREAS OF FENCE THAT ARE OUTSIDE THE RANGE OF PERMISSIBLE DIMENSIONS
6. WHERE THE RATE OF CHANGE IN SET BACK IS LESS THAN 1:30 (IE 1:35), NO TAPER ARRANGEMENT IS REQUIRED.
7. OFFSETS OF POSTS IN TRANSITIONAL CURVE CAN BE DECREASED IN RELATION TO THE SETBACK, BUT MUST NOT BE INCREASED

TAPER MAY BE TOWARDS (AS SHOWN) OR AWAY FROM TRAFFIC FACE. IN BOTH CIRCUMSTANCES, DETAILS SHOWN IN THE ABOVE DRAWING MUST BE IMPLEMENTED.

OFFSETS OF POSTS WITHIN TRANSITIONAL CURVE CAN BE DECREASED IN RELATION TO THE SETBACK, BUT MUST NOT BE INCREASED



MEGARAIL EP-C120 N2/W1

VERGE AND CENTRAL RESERVE
TAPER GENERAL ARRANGEMENTS



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REVn	DATE	DETAILS	INITIAL
01	21/12/23	LOGO UPDATED	H.B
00	31/10/23	DRAWING CREATED	H.B

DRAWING NUMBER: MR-C120N2W1-GA-41

REVn: 01