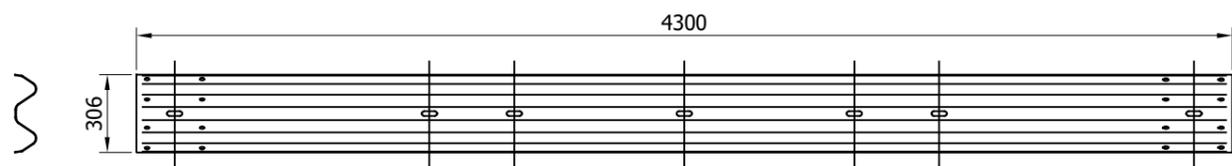
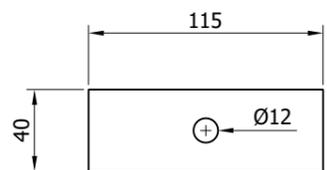
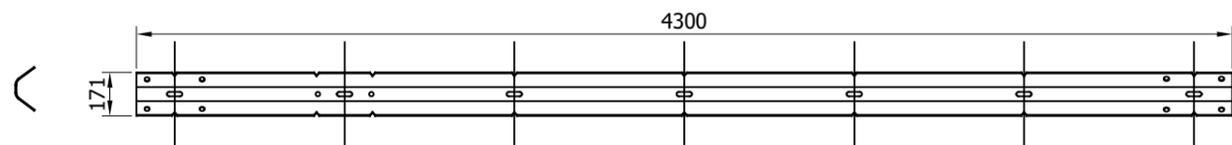


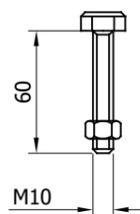
SR001 - BEAM
(CAN BE SUBSTITUTED BY BEAM SR028)



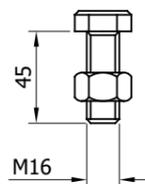
SR028 - A PROFILE 3MM BEAM



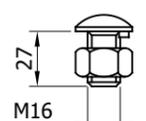
SR152 - WASHER PLATE 115 x 40 x 5 DIA.12



SR203 - SETSCREW 8.8
4.6 M10x60 c/w NUT



SR200 - SETSCREW 4.6
LIP M16x27 c/w NUT



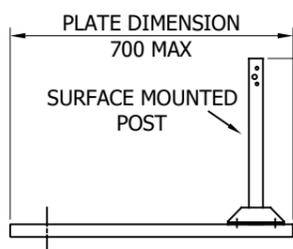
M16x45 c/w NUT



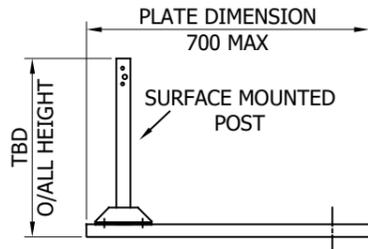
SR301 - M10
WASHER 11Ø HOLE



SR300 - M16
WASHER 18Ø HOLE



APPROACH
OFFSET POST



DEPARTURE
OFFSET POST

CAN BE FIXED WITH
CAST IN ANCHORS, DRILL
AND FIX ANCHORS OR
PUSHED IN ANCHORS
AT 180x180 CENTERS

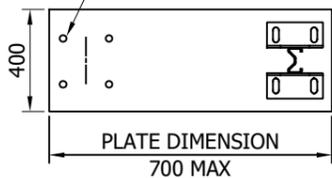


PLATE DIMENSION
700 MAX

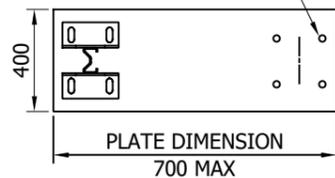
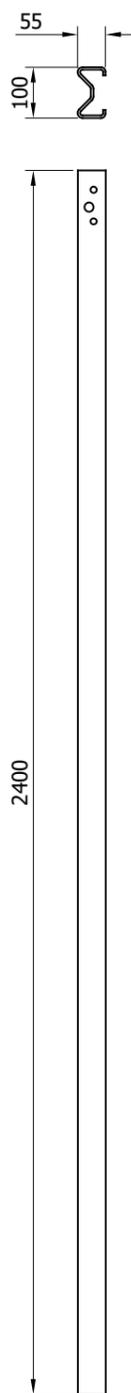
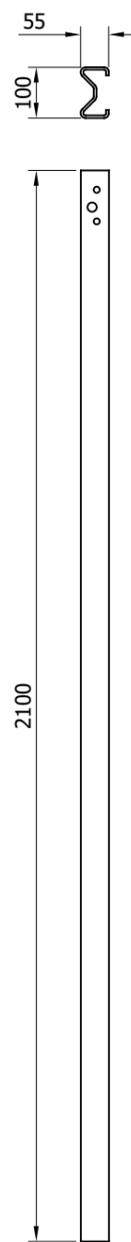


PLATE DIMENSION
700 MAX

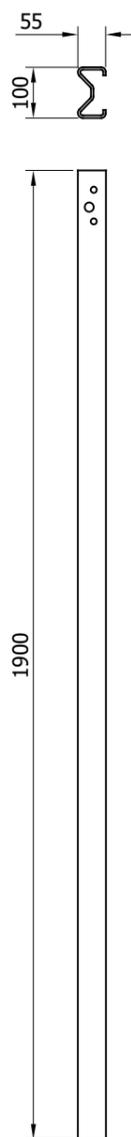
*BASEPLATE DRILL & TAPPED FOR LIFTING EYE



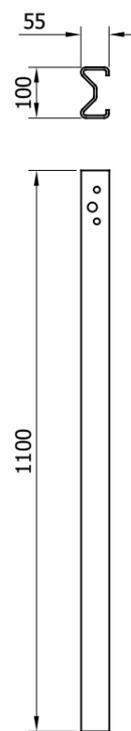
SR075 - TYPE 'A'
POST SIGMA 100
2400mm



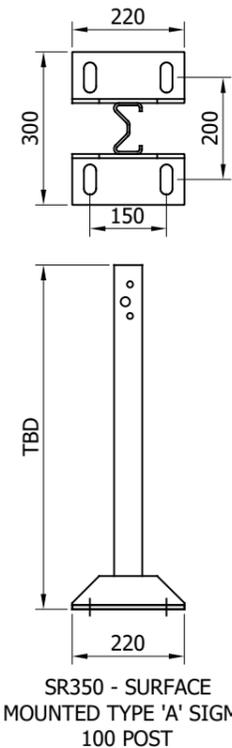
SR072 - TYPE 'A'
POST SIGMA 100
2100mm



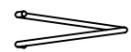
SR071 - TYPE 'A'
POST SIGMA 100
1900mm



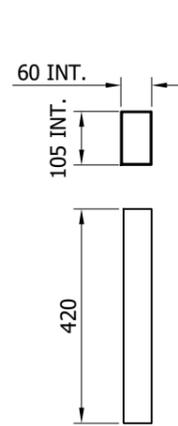
SR073 - TYPE 'A'
POST SIGMA 100
1100mm



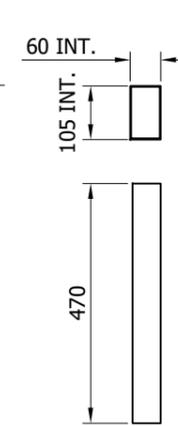
SR350 - SURFACE
MOUNTED TYPE 'A' SIGMA
100 POST



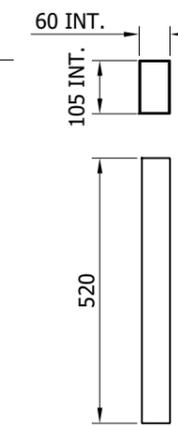
SR100 - A21
REINFORCING
RING



SR090 - SIGMA
100 POST
SOCKET x 420

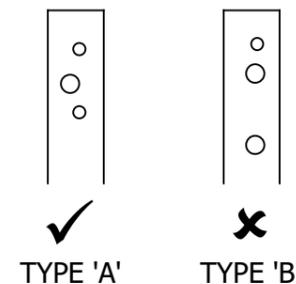


SR091 - SIGMA
100 POST
SOCKET x 470



SR092 - SIGMA
100 POST
SOCKET x 520

POST TOP DRILLING
ARRANGEMENT



TYPE 'A'

TYPE 'B'

REVn	DATE	DETAILS	INITIAL
07	31/05/22	OFFSET PLATE DETAIL CHANGED	A.D
06	25/05/22	SURFACE MOUNTED POST BASE CHANGED	A.D
05	19/11/19	BEAM DETAILS ADDED	M.T
04	12/02/19	TITLEBLOCK REVISED	H.B
03	10/03/17	OFFSET POST REVISED	L.L
02	26/01/17	DETAILS ADDED & REVISED	L.L
1.2	20/05/15	DETAILS REVISED	M.T

**MegaRail ESP+W1
N2 W1**

N2.W1 VEHICLE RESTRAINT SYSTEM
COMPONENTS SCHEMATIC

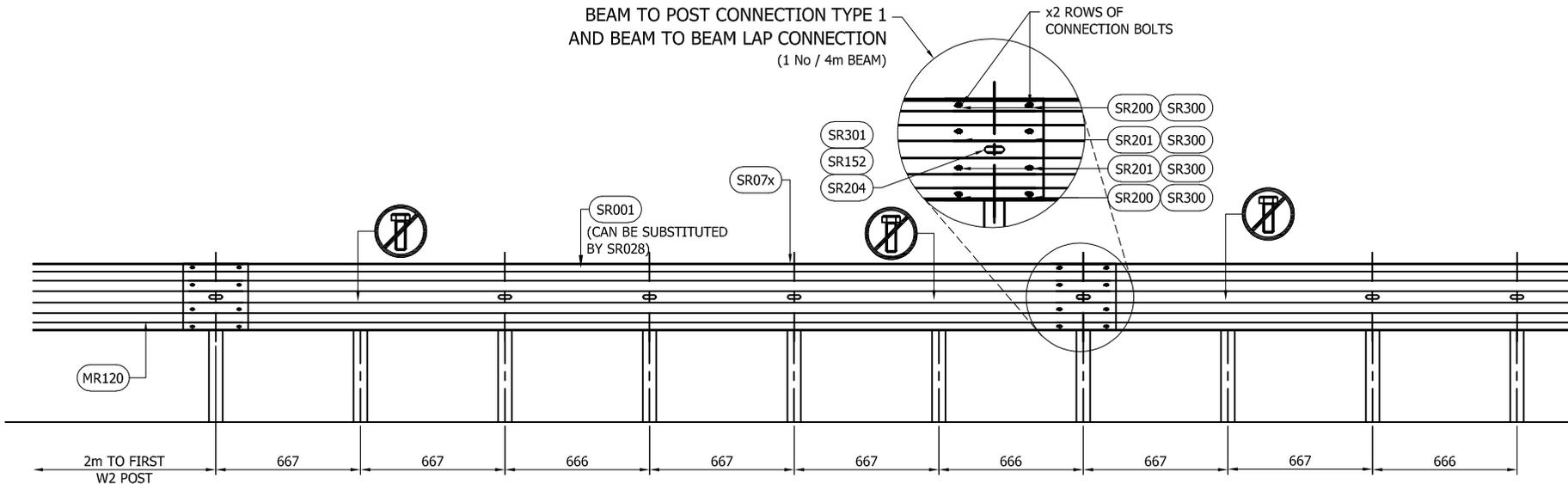
SAFEROAD®

CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119

FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER: N2W1-GA-00	REVn: 07
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**BEAM TO POST CONNECTION TYPE 1
AND BEAM TO BEAM LAP CONNECTION**
(1 No / 4m BEAM)



- GENERAL NOTES:**
1. P.S.B. = POINT FROM WHERE SET-BACK IS MEASURED.
 2. POSTS ARE TO BE INSTALLED WITH THE CLOSED FACE OF THE CHANNEL TOWARDS THE ON-COMING TRAFFIC.
 3. AT LOCAL OBSTRUCTIONS INDIVIDUAL POSTS MAY BE OMITTED WHICH WOULD RESULT IN A GAP BETWEEN ADJACENT POSTS OF 1333, OR ALTERNATIVELY OFFSET POST SHOWN ON DRAWING N2W1-GA-00 CAN BE USED.
 4. FOR OPTIONS ON POST FOUNDATIONS REFER TO DRAWING NUMBER MR-GA-020
 5. WHEN TYING INTO ADJACENT VRS ONLY ONE WORKING WIDTH DIFFERENCE IS PERMITTED.
 6. FOR MINIMUM LENGTH OF FULL HEIGHT VRS REFER TO SAFEROAD MEGARAIL MANUAL.
 7. FRONT & BACKING BEAMS TO RUN IN SYNC.

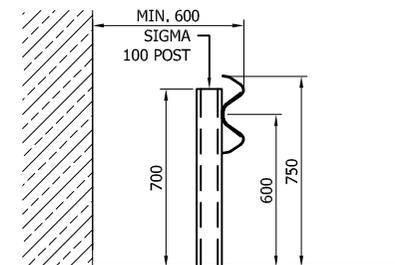
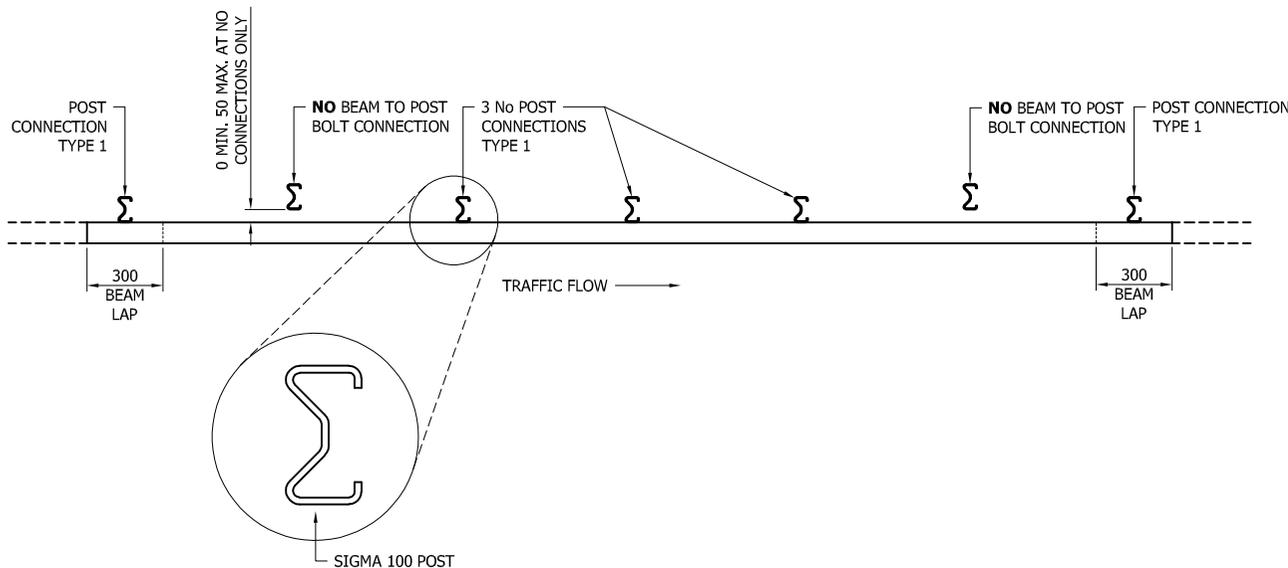


TABLE 'A' - SYSTEM COMPONENT SCHEDULE - QUANTITIES / 4m BEAM

SAFEROAD UK PART NUMBER	DESCRIPTION	QUANTITY
SR001	BEAM (CAN BE SUBSTITUTED BY SR028)	1
SR025	BEAM 1/2 ROUND ESP	1
SEE TABLE B	POST SIGMA 100	6

FOR SCHEDULE OF BOLTED CONNECTIONS REFER TO DRAWING NUMBER N2W1-GA-02

TABLE 'B' - SCHEDULE OF POST REFERENCE NUMBERS AND LENGTHS

SAFEROAD UK PART NUMBER	POST LENGTH
SR073	1100
SR071	1900
SR072	2100
SR075	2400

REV#	DATE	DETAILS	INITIAL
04	19/11/19	BEAM DETAILS ADDED	M.T
03	12/02/19	REVISED TITLEBLOCK	H.B
02	26/01/17	KERB HEIGHT & CODES REV'D	L.L
1.2	20/05/15	DETAILS REVISED	M.T

**MegaRail ESP+W1
N2 W1**
N2.W1VEHICLE RESTRAINT SYSTEM
ASSEMBLY AND SETTING OUT
ARRANGEMENT

SAFEROAD®

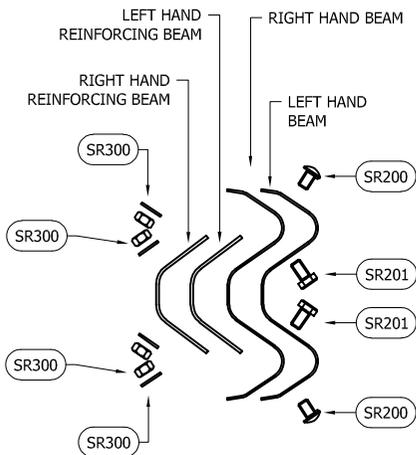
CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119

FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

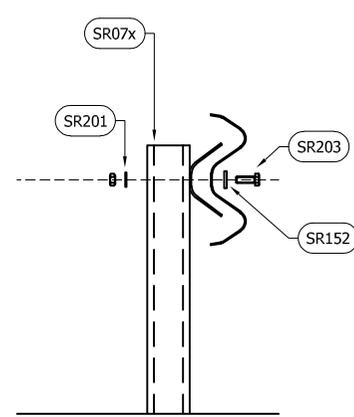
DRAWING NUMBER: REV#:

N2W1-GA-01

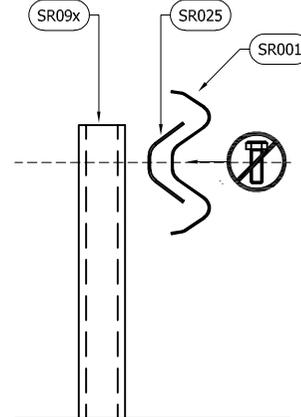
04



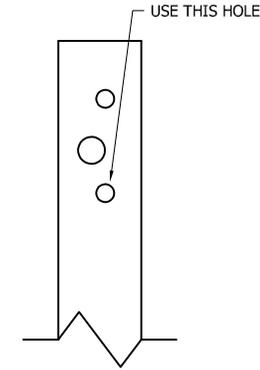
BEAM TO BEAM CONNECTION
ARRANGEMENT AT FRONT
BEAM LAP
(x2 LOCATIONS / BEAM END)



BEAM TO POST
CONNECTION TYPE 1
(x4 LOCATIONS / BEAM)



NO BEAM TO POST
BOLT CONNECTION
(TYPE 2)



BEAM TO POST
CONNECTION HOLE

GENERAL NOTES:

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

BOLTING COMPONENT SCHEDULE - QUANTITIES / BEAM			
SAFEROAD UK PART NUMBER	DESCRIPTION	FRONT BEAM LAP JOINT	REINFORCING BEAM LAP JOINT
SR200	SETSCREW 4.6 LAP M16 x 27 c/w NUT	8 (+4)	4 (+4)
SR201	SETSCREW 8.8 M16 x 45 c/w NUT	2 (+2)	0
SR300	M16 WASHER 18 ϕ HOLE	6 (+6)	4 (+4)

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

BOLTING COMPONENT SCHEDULE - QUANTITIES / POST		
SAFEROAD UK PART NUMBER	DESCRIPTION	TYPE 1 CONNECTION
SR203	SETSCREW 4.6 M10 x 60 c/w NUT	1
SR152	WASHER PLATE 115 x 40 x 5 DIA. 12	1
SR301	M10 WASHER 11 ϕ HOLE	1
QUANTITY OF CONNECTION TYPES / 4m BEAM		
		4 (+1)

REV#	DATE	DETAILS	INITIAL
03	12/02/19	REVISED TITLEBLOCK	H.B
02	26/01/17	HOLE LOCATION & CODES REVISED	L.L
1.2	20/05/15	DETAILS REVISED	M.T

**MegaRail ESP+W1
N2 W1**
N2.W1 VEHICLE RESTRAINT SYSTEM
BOLTING ARRANGEMENTS

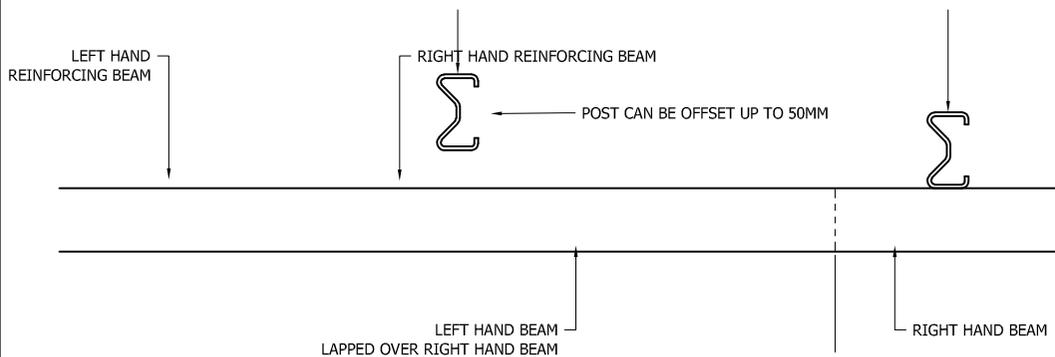
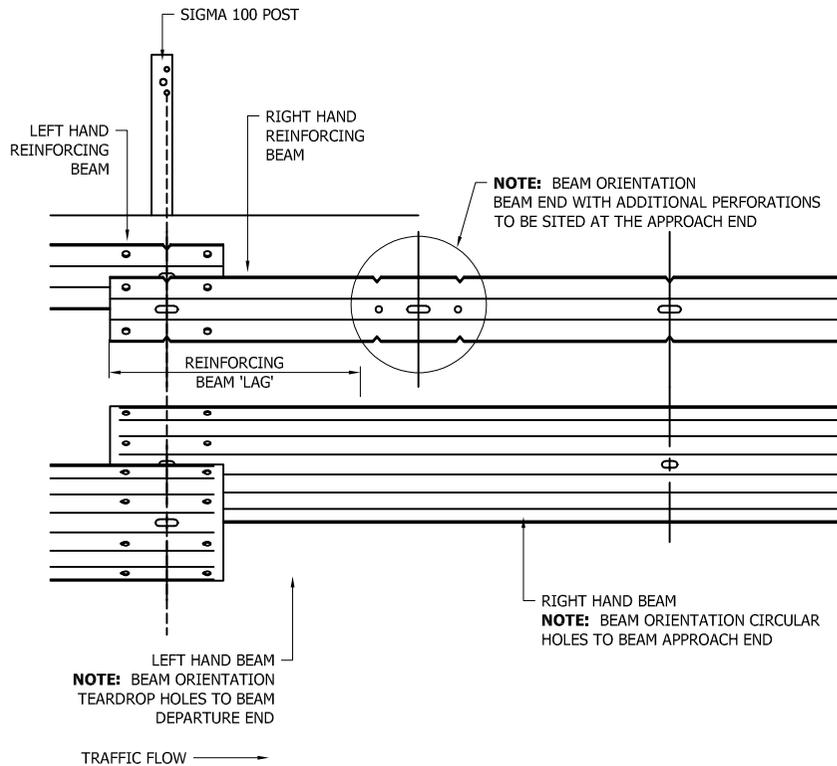
SAFEROAD®

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NORTH LINCOLNSHIRE, DN15 8XE
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FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:	REV#:
N2W1-GA-02	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

05	12/02/19	REVISED TITLEBLOCK	H.B
04	28/03/17	POST OFFSET REVISED	L.L
03	10/03/17	DETAILS ADDED	L.L
02	26/01/17	HOLE LOCATION REVISED	L.L
1.2	20/05/15	DETAILS REVISED	M.T
REV#	DATE	DETAILS	INITIAL

MegaRail ESP+W1 N2 W1

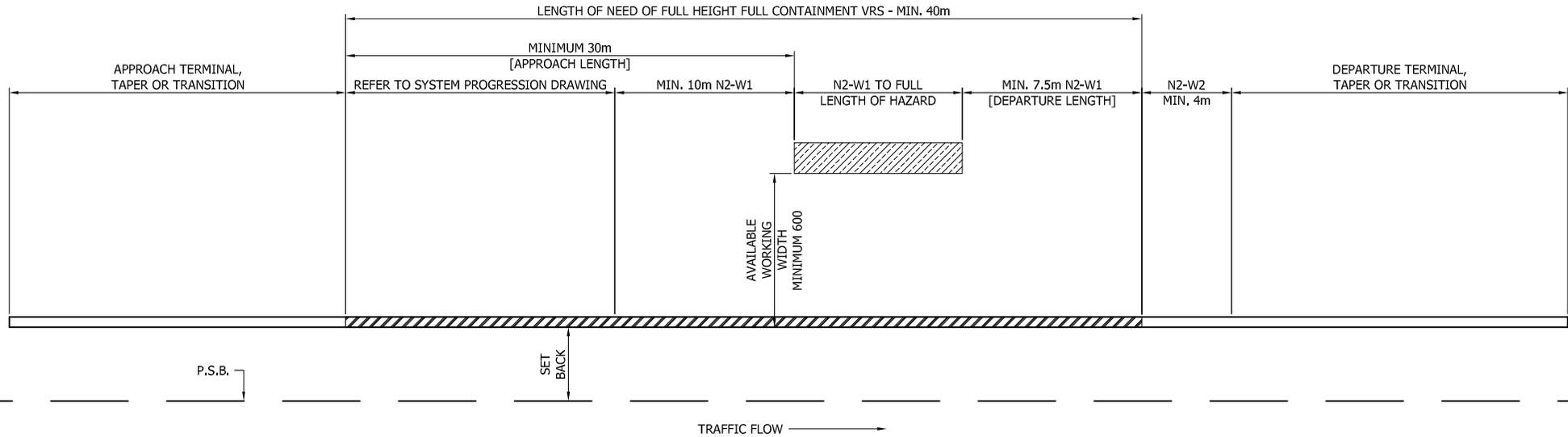
N2.W1 VEHICLE RESTRAINT SYSTEM.
BEAM LAPPING ARRANGEMENT

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john.cudlipp@saferoad.co.uk

DRAWING NUMBER:	REV#:
N2W1-GA-03	05

- GENERAL NOTES:
1. P.S.B. = POINT FROM WHERE SET-BACK IS MEASURED.
 2. POSTS ARE TO BE INSTALLED WITH THE CLOSED FACE OF THE CHANNEL TOWARDS THE ON-COMING TRAFFIC.
 3. MINIMUM LENGTH OF FULL HEIGHT VRS IS 40m



**MegaRail ESP+W1
N2 W1**
VEHICLE RESTRAINT SYSTEM.
SYSTEM PROGRESSION SCHEMATIC
FOR W1 PROTECTION TO HAZARD

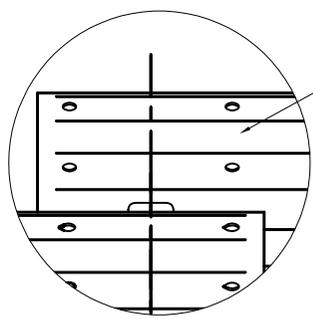
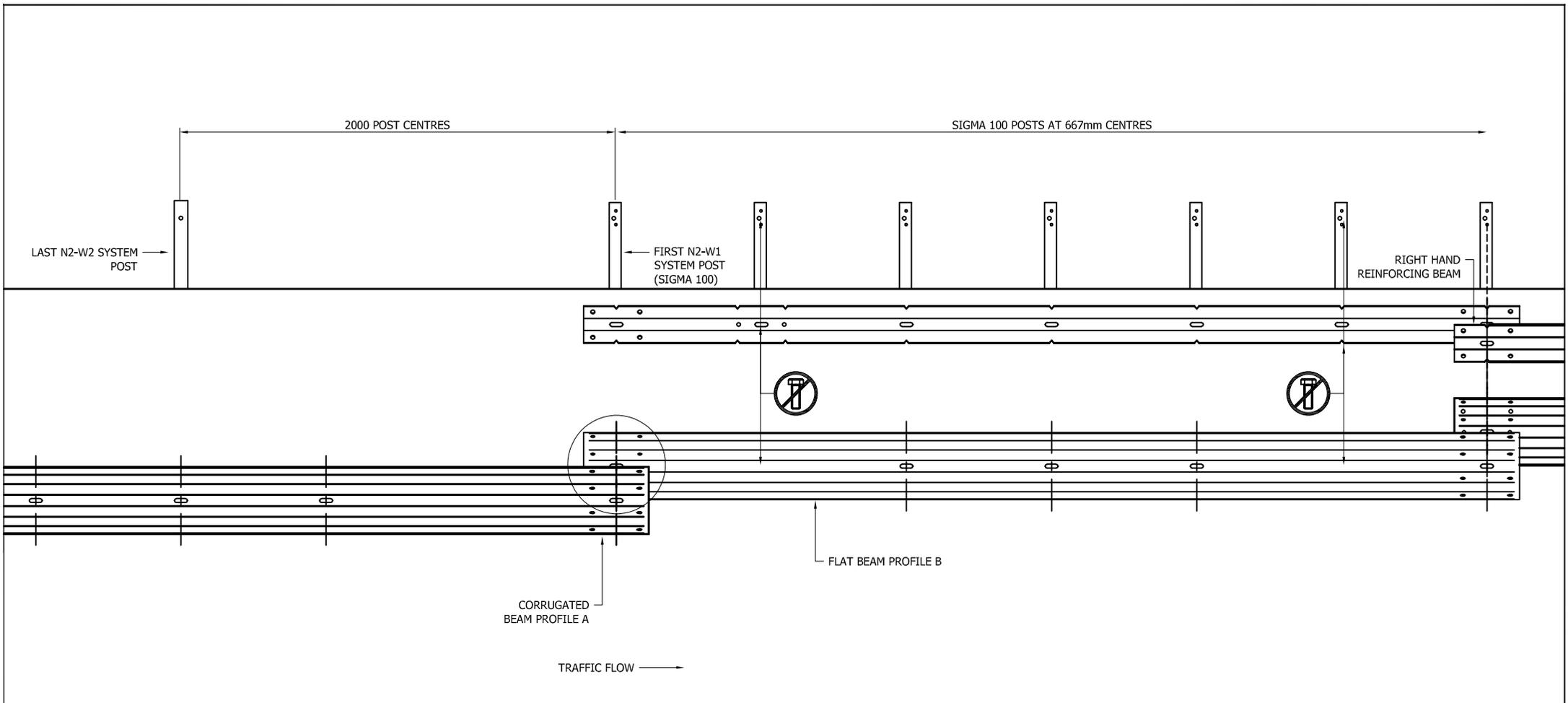
SAFEROAD®

CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119

FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

REV#	DATE	DETAILS	INITIAL
03	12/02/19	REVISED TITLEBLOCK	H.B
02	26/01/17	DETAILS REVISED	L.L
1,2	20/05/15	DETAILS REVISED	M.T

DRAWING NUMBER:	REV#:
N2W1-GA-10	03



NOTE: BEAM ORIENTATION CIRCULAR HOLES TO BEAM APPROACH END

**MegaRail ESP+W1
N2 W1**
N2.W1 VEHICLE RESTRAINT SYSTEM.
N2.W2 INTO N2.W1 SYSTEM
PROGRESSION CONNECTION DETAIL

SAFEROAD®
CONCORD HOUSE,
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NORTH LINCOLNSHIRE, DN15 8XE
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john.cudlipp@saferoad.co.uk

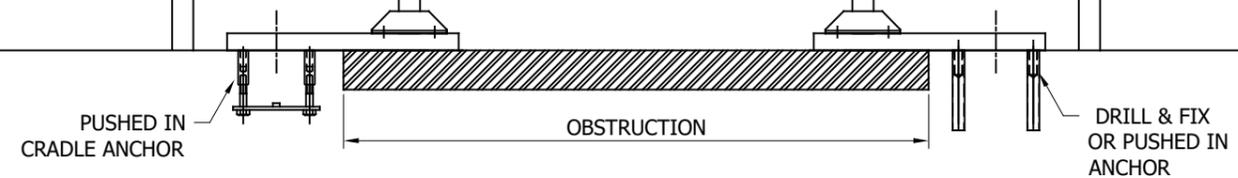
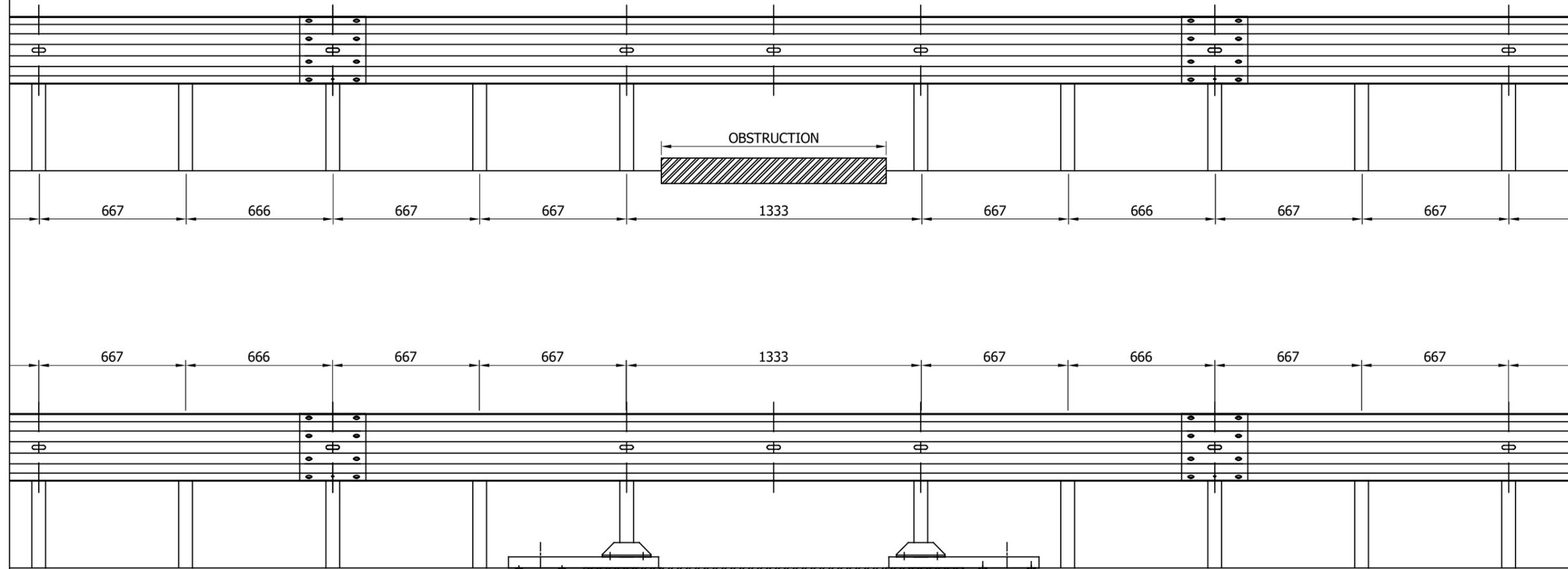
REV#	DATE	DETAILS	INITIAL
04	12/02/19	REVISED TITLEBLOCK	H.B
03	10/03/17	POST DETAILS REVISED	L.L
02	26/01/17	VIEW MOVED & BEAM REV'D	L.L
1,2	20/05/15	DETAILS REVISED	M.T

DRAWING NUMBER:	REV#:
N2W1-GA-20	04

** 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. THE NEW POST SPACING MUST NOT EXCEED 1333mm. 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 N2W1-GA-00 CAN BE USED.

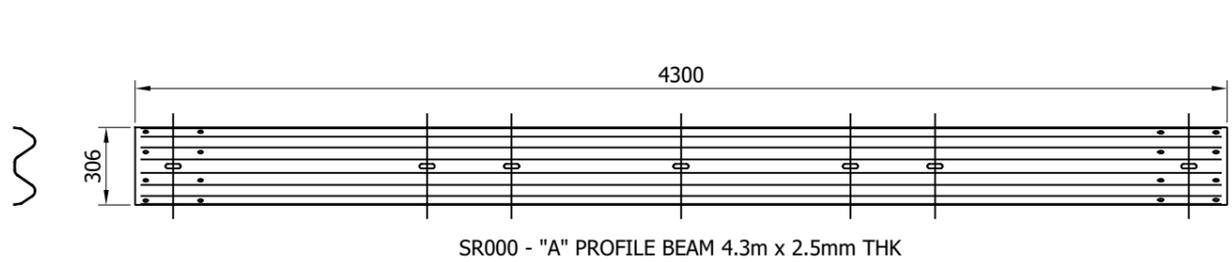


REVn	DATE	DETAILS	INITIAL
03	25/05/22	SURFACE MOUNTED POST BASE CHANGED	A.D
02	01/04/19	REVISED TITLEBLOCK	M.T
01	12/02/19	REVISED TITLEBLOCK	H.B
00	26/01/17	NEW DRAWING	L.L

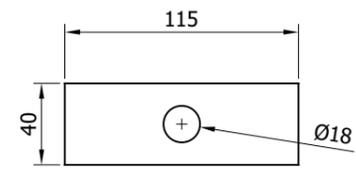
**MegaRail ESP+W1
N2 W1**
N2.W1 VEHICLE RESTRAINT SYSTEM.
DEVIATION SETTING OUT
ARRANGEMENT

SAFEROAD®
CONCORD HOUSE,
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john.cudlipp@saferoad.co.uk

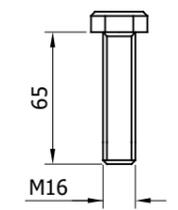
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N2W1-GA-40	03



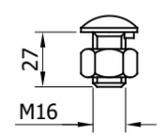
SR000 - "A" PROFILE BEAM 4.3m x 2.5mm THK



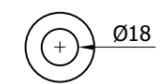
SR151 - WASHER PLATE
115 x 40 x 6 DIA. 18



GF216 - SETSCREW 8.8
M16x65



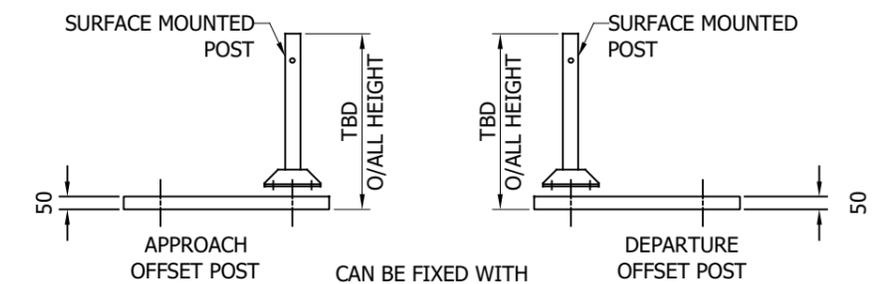
SR200 - SETSCREW 4.6
LIP M16x27 c/w NUT



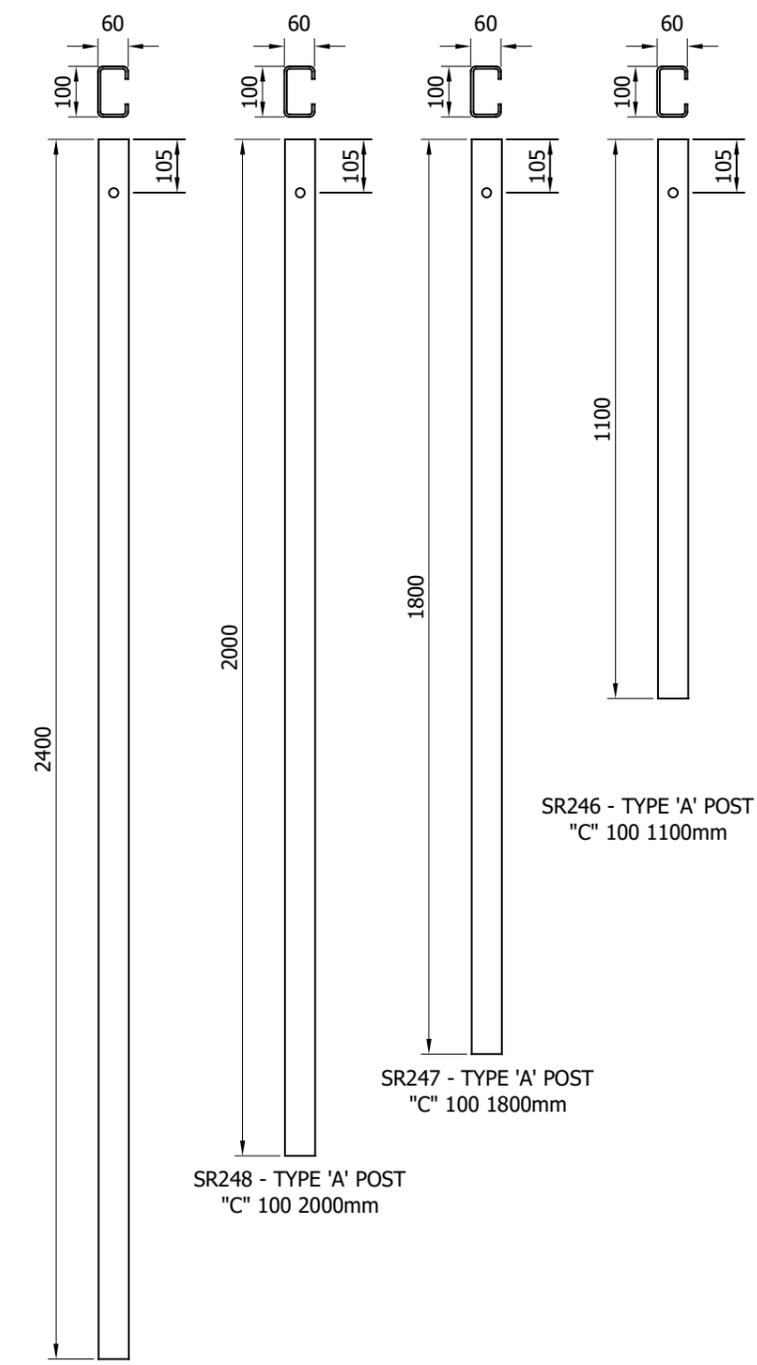
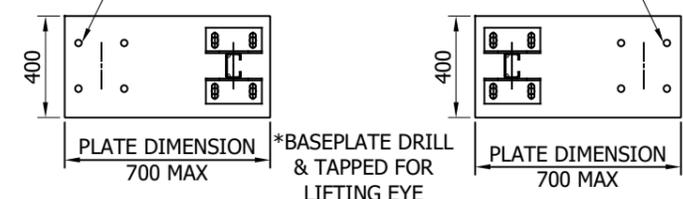
SR300 - WASHER
18Ø



GF170 - M16 NUT



CAN BE FIXED WITH
CAST IN ANCHORS, DRILL
AND FIX ANCHORS OR
PUSHED IN ANCHORS
AT 180x180 CENTERS

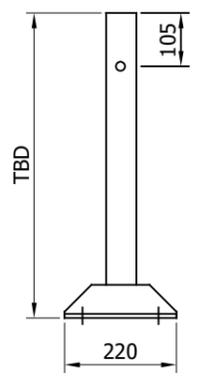
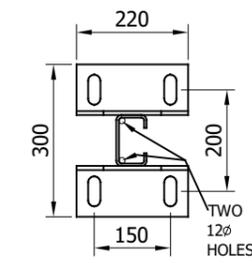


SR246 - TYPE 'A' POST
"C" 100 1100mm

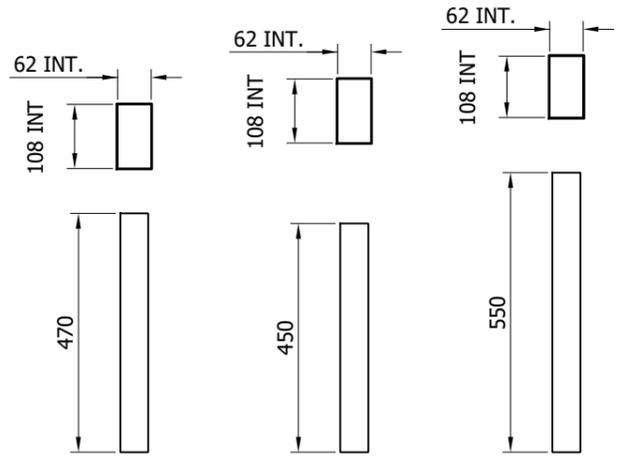
SR247 - TYPE 'A' POST
"C" 100 1800mm

SR248 - TYPE 'A' POST
"C" 100 2000mm

SR249 - TYPE 'A' POST
"C" 100 2400mm



SURFACE MOUNTED -
TYPE 'A' C-100 POST



SR180 - C-100
POST SOCKET
x 470

SR181 - C-100
POST SOCKET
x 450

SR183 - C-100
POST SOCKET
x 550



SR100 - A21
REINFORCING
RING

REVn	DATE	DETAILS	INITIAL
06	21/07/22	SOCKET SIZES CHANGED	A.D
05	08/07/22	DETAILS REVISED	A.D
04	13/05/22	SURFACE MOUNTED POST BASE CHANGED	A.D
03	16/08/21	REINFORCING RING ADDED	A.D
02	23/07/21	SURFACE MOUNTED POST HOLE REVISED	A.D
01	27/05/21	DETAILS REVISED	M.T
00	16/03/20	DRAWING CREATED	H.B

MegaRail ea N2W1

N2W1 VEHICLE RESTRAINT SYSTEM
COMPONENTS SCHEMATIC

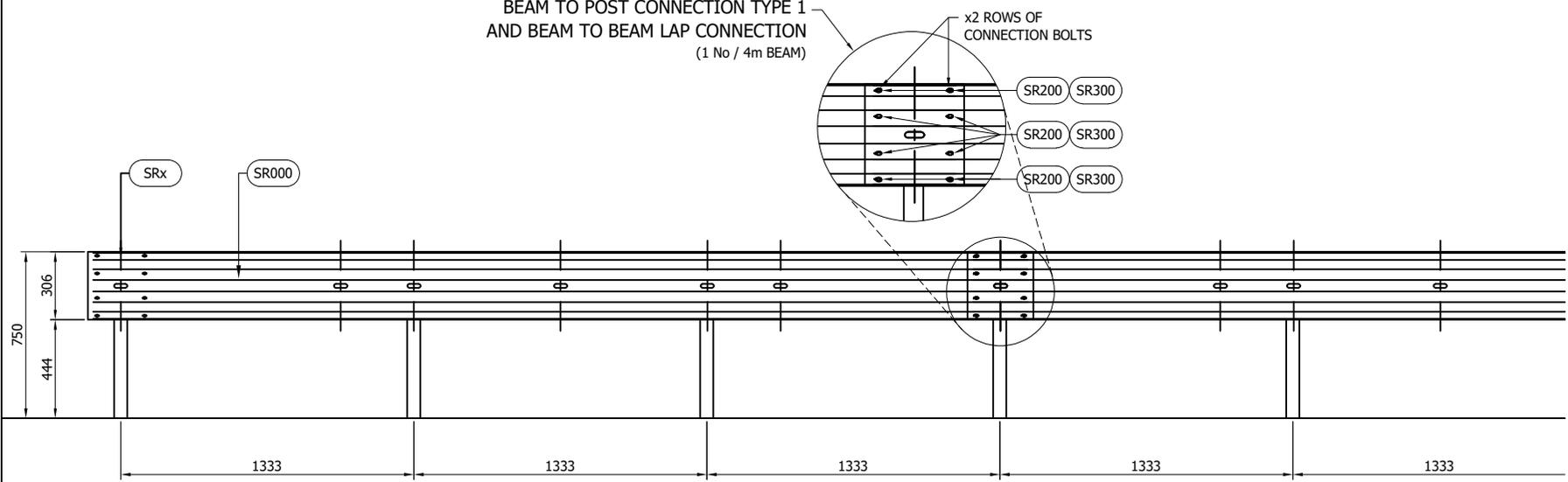
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NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119

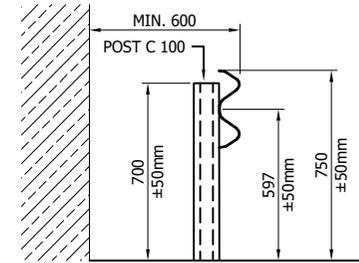
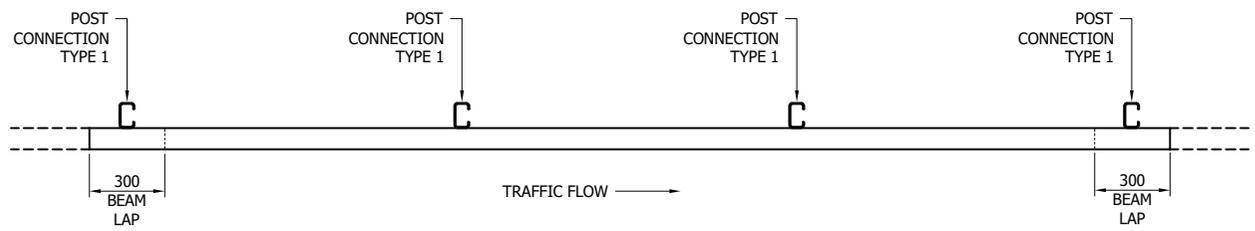
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:	REVn:
eaN2W1-GA-00	06

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



- GENERAL NOTES:
1. P.S.B. = POINT FROM WHERE SET-BACK IS MEASURED.
 2. POSTS ARE TO BE INSTALLED WITH THE CLOSED FACE OF THE CHANNEL TOWARDS THE ON-COMING TRAFFIC.
 3. FOR OPTIONS ON POST FOUNDATIONS REFER TO DRAWING NUMBER MR-GA-020
 4. FOR DEVIATIONS IN SYSTEM POST PITCH REFER TO DRAWING eaN2W1-GA-40
 5. WHEN TYING INTO ADJACENT VRS ONLY ONE WORKING WIDTH DIFFERENCE IS PERMITTED.
 6. SEE MR-GA-001 & MR-GA-003 FOR DETAILS OF SYSTEM HEIGHTS WITH REFERENCE TO SETBACK & KERB HEIGHTS.
 7. FOR MINIMUM LENGTH OF FULL HEIGHT VRS REFER TO SAFEROAD MEGARAIL MANUAL.



REVn	DATE	DETAILS	INITIAL
03	18/03/22	TABLE 'A' REVISED	A.D
02	12/01/22	TOLERANCES ADDED	A.D
01	26/05/21	NOTES REVISED	M.T
00	16/03/20	DRAWING CREATED	H.B

TABLE 'A' - SYSTEM COMPONENT SCHEDULE - QUANTITIES / 4m BEAM

SAFEROAD UK PART NUMBER	DESCRIPTION	QUANTITY
SR000	BEAM "A" PROFILE 4.3mtr x 2.5mm	1
SEE TABLE 'B'	POST "C" 100	2

FOR SCHEDULE OF BOLTED CONNECTIONS REFER TO DRAWING NUMBER eaN2W1-GA-02

TABLE 'B' - SCHEDULE OF POST REFERENCE NUMBERS AND LENGTHS

SAFEROAD UK PART NUMBER	POST LENGTH
SR246	1100
SR247	1800
SR248	2000
SR249	2400

MegaRail ea N2W1

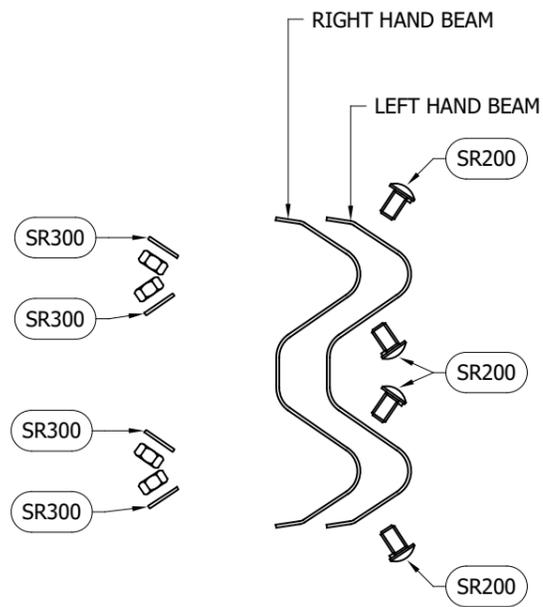
N2W1 VEHICLE RESTRAINT SYSTEM ASSEMBLY AND SETTING OUT ARRANGEMENT

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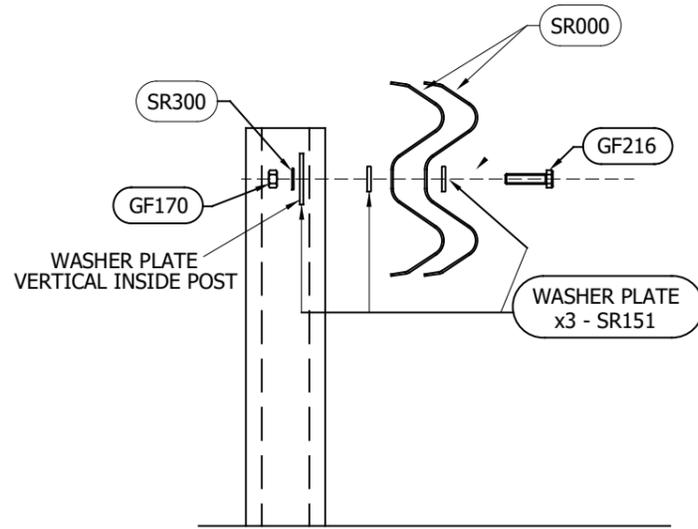
CONCORD HOUSE,
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t: 01724 289119

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DRAWING NUMBER:	REVn:
eaN2W1-GA-01	03



BEAM TO BEAM CONNECTION ARRANGEMENT
(x2 LOCATIONS / BEAM END)



BEAM TO POST CONNECTION TYPE 1

BOLTING COMPONENT SCHEDULE - QUANTITIES / BEAM		
SAFEROAD UK PART NUMBER	DESCRIPTION	BEAM TO BEAM CONNECTION
SR200	SETSCREW 4.6 LIP M16x27 c/w NUT	8 (+8)
SR300	WASHER M16 18 ϕ HOLE	8 (+8)

BOLTING COMPONENT SCHEDULE - QUANTITIES / POST		
SAFEROAD UK PART NUMBER	DESCRIPTION	TYPE 1 CONNECTION
GF216	SETSCREW 8.8 M16 x 65	1
GF170	M16 NUT	1
SR151	WASHER PLATE 115 x 40 x 6 DIA. 18	3
SR300	WASHER M16 18 ϕ HOLE	1

GENERAL NOTES:

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

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

REVn	DATE	DETAILS	INITIAL
03	08/07/22	DETAILS REVISED	A.D
02	11/06/21	DETAILS REVISED	M.T
01	26/05/21	DETAILS REVISED	M.T
00	16/03/20	DRAWING CREATED	H.B

MegaRail ea N2W1

N2W1 VEHICLE RESTRAINT SYSTEM
BOLTING ARRANGEMENTS

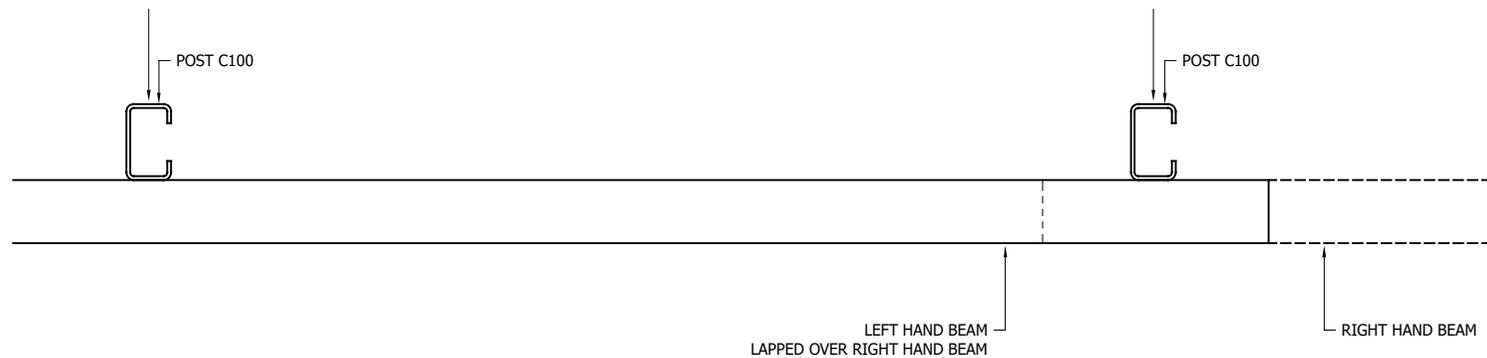
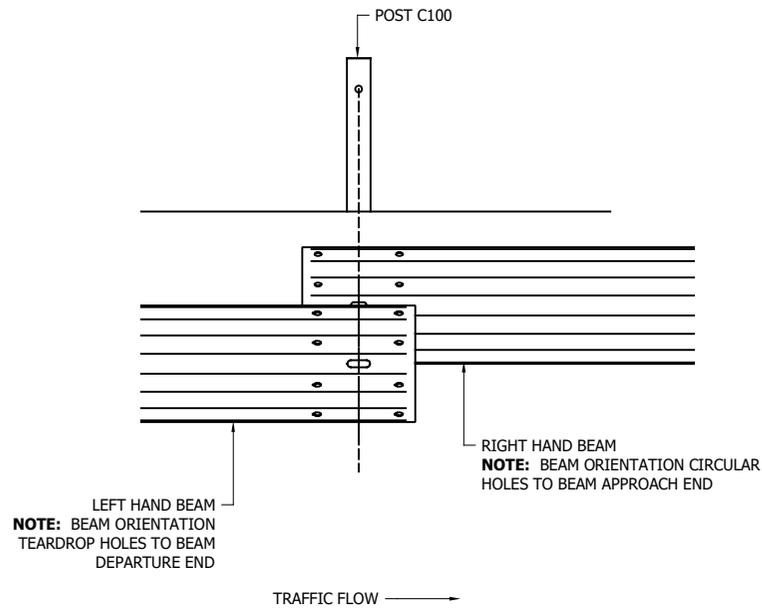
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DRAWING NUMBER:	REVn:
eaN2W1-GA-02	03

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

00	16/03/20	DRAWING CREATED	H.B
REVn	DATE	DETAILS	INITIAL

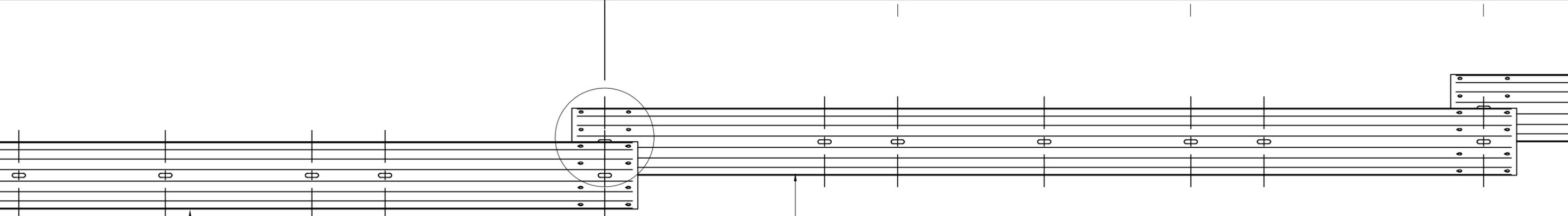
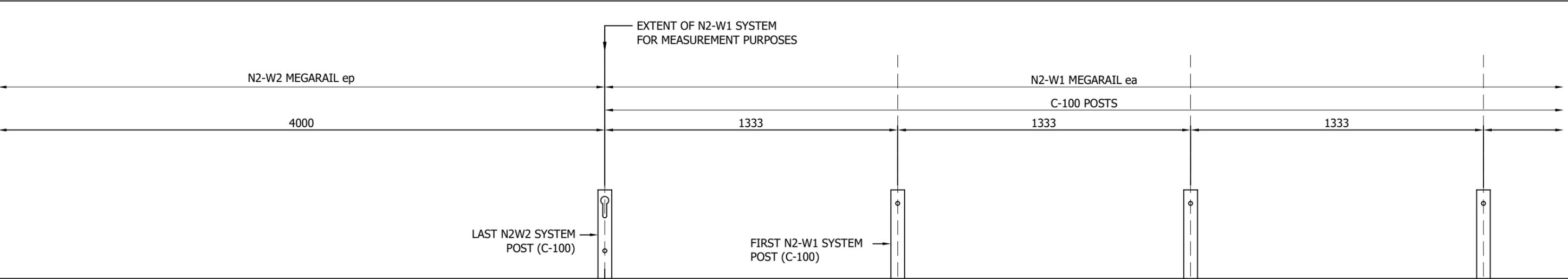
MegaRail ea N2W1

N2W1 VEHICLE RESTRAINT SYSTEM.
BEAM LAPPING DETAIL FOR
MEGARAIL SYSTEM

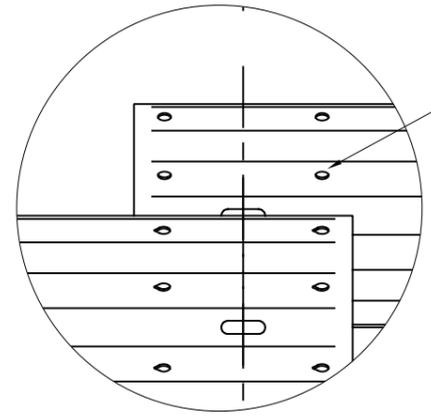
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DRAWING NUMBER:	REVn:
eaN2W1-GA-03	00



TRAFFIC FLOW →



NOTE: BEAM ORIENTATION CIRCULAR HOLES TO BEAM APPROACH END

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

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N2W1 VEHICLE RESTRAINT SYSTEM.
PROGRESSION CONNECTION DETAIL

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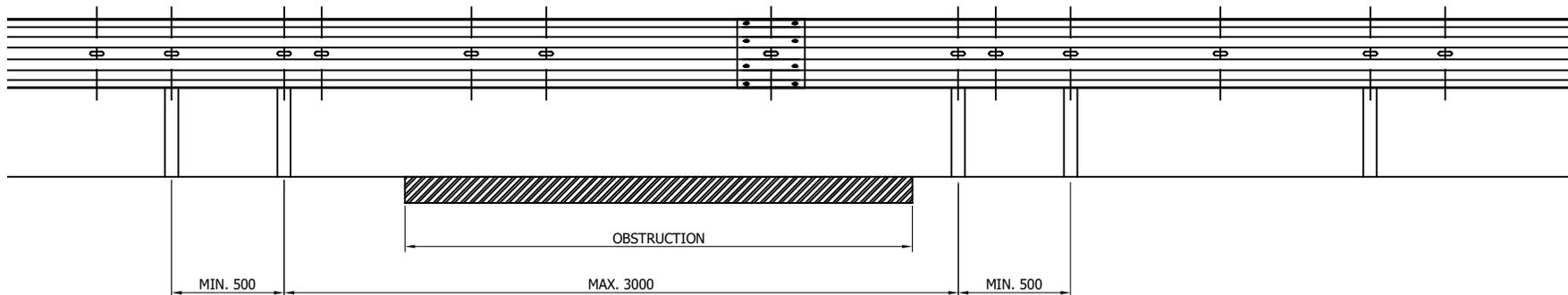
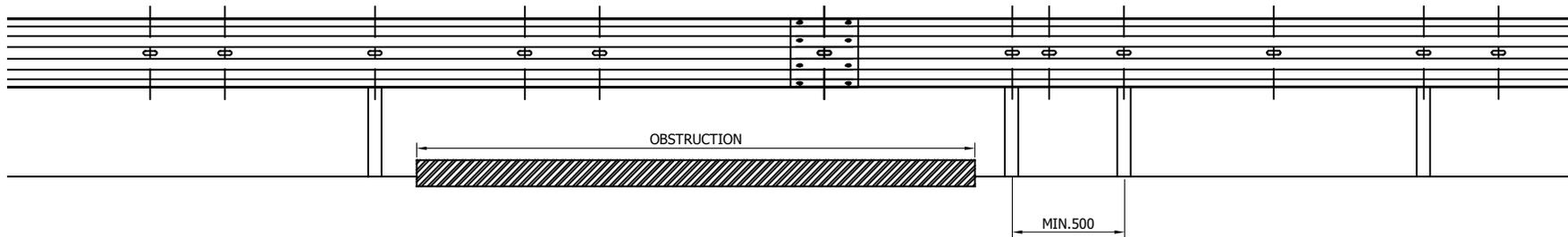
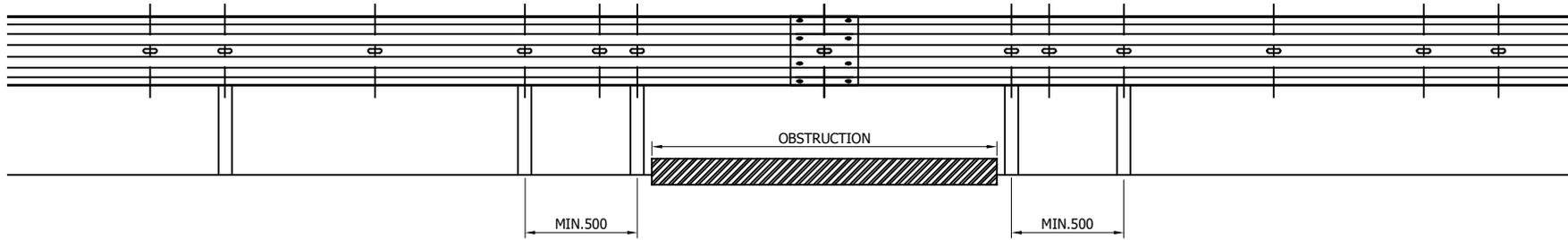
01	15/02/23	SLOT ADDED IN L/H BEAM	A.D
00	16/03/20	DRAWING CREATED	H.B
REVn	DATE	DETAILS	INITIAL

DRAWING NUMBER:	REVn:
eaN2W1-GA-20	01

** 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. THE NEW POST SPACING MUST NOT EXCEED 3000mm AND MUST NOT BE LESS THAN 500mm. 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 eaN2W1-GA-00 CAN BE USED. INSERT THE ORIGINAL POST SPACING INSTEAD OF 3000mm
3. PLEASE REFER TO MEGARAIL EA N2W1 MANUAL FOR INFORMATION ON DRILLING ADDITIONAL HOLES



PLEASE REFER TO MEGARAIL EA N2-W1 MANUAL FOR DETAILS ON DRILLING ADDITIONAL HOLES

REVn	DATE	DETAILS	INITIAL
01	26/05/21	NOTES REVISED	M.T
00	16/03/20	DRAWING CREATED	H.B

MegaRail ea N2W1

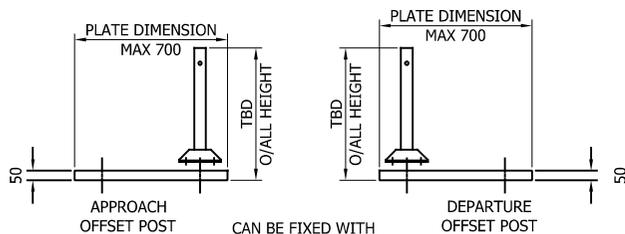
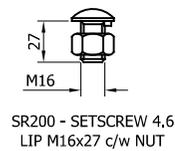
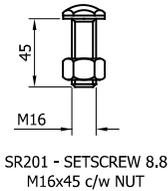
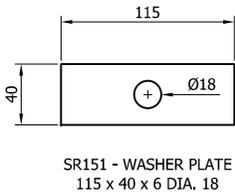
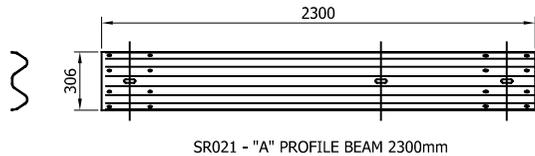
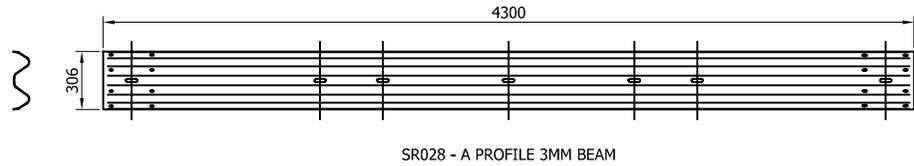
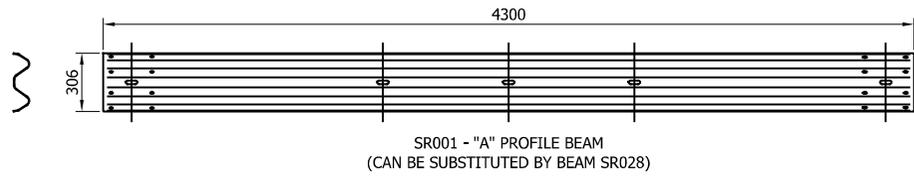
N2W1 VEHICLE RESTRAINT SYSTEM
DEVIATION SETTING OUT
ARRANGEMENT

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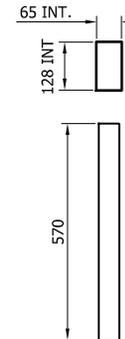
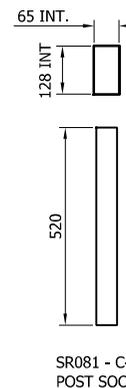
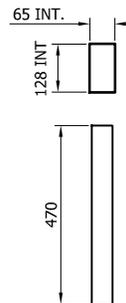
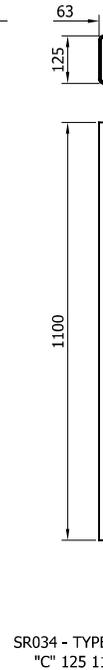
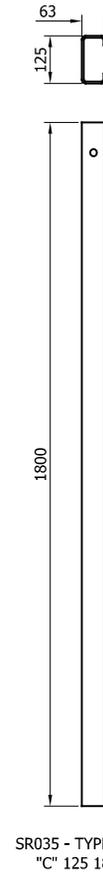
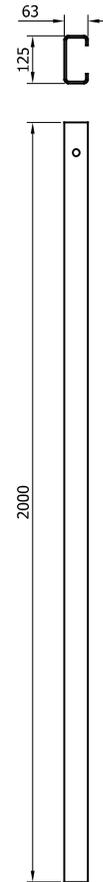
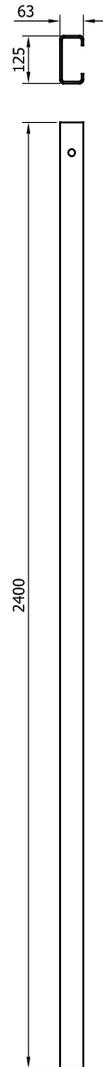
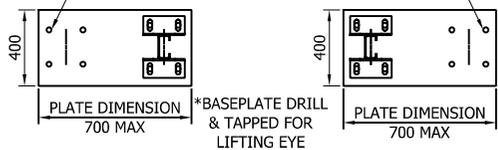
CONCORD HOUSE,
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john.cudlipp@saferoad.co.uk

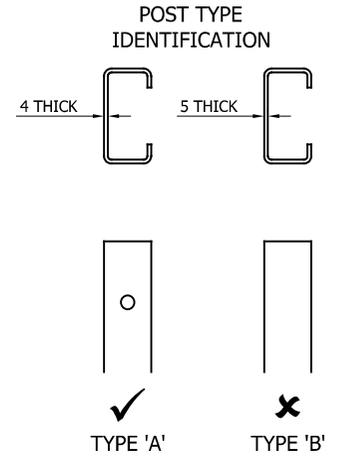
DRAWING NUMBER:	REVn:
eaN2W1-GA-40	01



CAN BE FIXED WITH CAST IN ANCHORS, DRILL AND FIX ANCHORS OR PUSHED IN ANCHORS AT 180x180 CENTERS



SURFACE MOUNTED -
TYPE 'A' C-125 POST



REV#	DATE	DETAILS	INITIAL
10	26/11/24	DRAWING UPDATED	H,B
09	13/05/22	SURFACE MOUNTED POST BASE CHANGED	A,D
08	27/05/21	DETAILS REVISED	M,T
07	19/11/19	BEAM DETAILS ADDED	M,T
06	12/03/19	TITLEBLOCK REVISED	M,T
05	28/03/17	POST LENGTH REVISED	L,L
04	10/03/17	BEAM ADDED & DETAILS REV	L,L
03	26/01/17	CODES & DETAILS REVISED	L,L
2,4	20/05/15	DETAILS REVISED	L,L

MegaRail es N2 W2

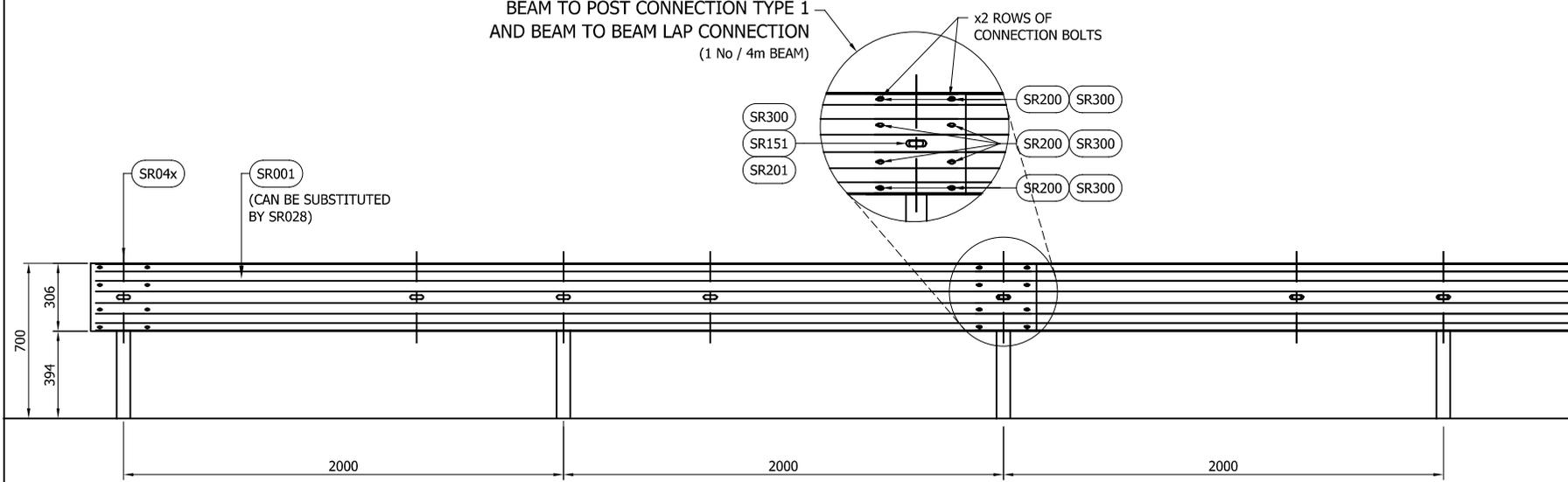
N2.W2 VEHICLE RESTRAINT SYSTEM
COMPONENTS SCHEMATIC



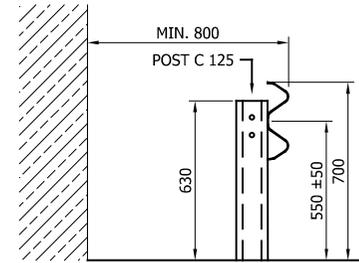
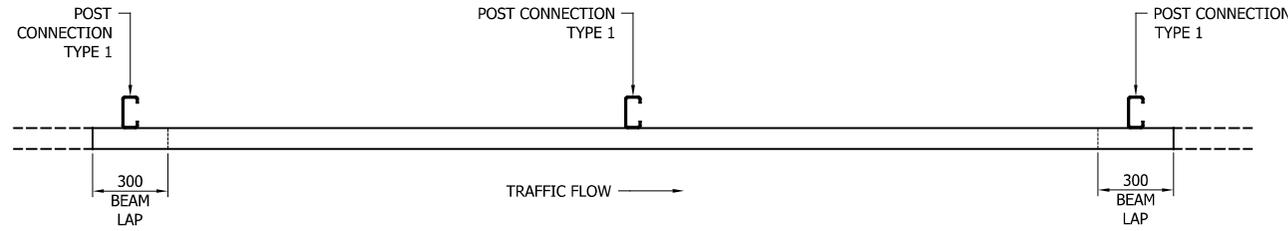
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NORTH LINCOLNSHIRE, DN15 8XE
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DRAWING NUMBER: N2W2-GA-00	REV#: 10
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**BEAM TO POST CONNECTION TYPE 1
AND BEAM TO BEAM LAP CONNECTION**
(1 No / 4m BEAM)



- GENERAL NOTES:
1. P.S.B. = POINT FROM WHERE SET-BACK IS MEASURED.
 2. POSTS ARE TO BE INSTALLED WITH THE CLOSED FACE OF THE CHANNEL TOWARDS THE ON-COMING TRAFFIC.
 3. FOR OPTIONS ON POST FOUNDATIONS REFER TO DRAWING NUMBER MR-GA-020
 4. FOR DEVIATIONS IN SYSTEM POST PITCH REFER TO DRAWING N2W2-GA-40
 5. WHEN TYING INTO ADJACENT VRS ONLY ONE WORKING WIDTH DIFFERENCE IS PERMITTED.
 6. WHERE A KERB IS PRESENT THE MAXIMUM KERB HEIGHT IS 100mm. SHOULD THE KERB BE HIGHER THAN 100mm AND THE FENCE IS SETBACK LESS THAN 250mm FROM FACE OF KERB THE SYSTEM HEIGHT IS MEASURED FROM THE CARRIAGEWAY. IF THE SETBACK IS MORE THAN 250mm FROM THE FACE OF KERB THE SYSTEM HEIGHT IS MEASURED FROM THE TOP OF THE KERB. SEE MR-GA-002.
 7. FOR MINIMUM LENGTH OF FULL HEIGHT VRS REFER TO SAFEROAD MEGARAIL MANUAL SEE DRAWING MR-GA-042.



08	26/11/24	DRAWING UPDATED	H.B
07	12/10/21	GENERAL NOTE 7 CHANGED	A.D
06	25/05/21	DETAILS REVISED	M.T
05	19/11/19	BEAM DETAILS ADDED	M.T
04	12/02/19	TITLEBLOCK REVISED	M.T
03	26/01/17	CODES & DETAILS REVISED	L.L
2.3	20/05/15	DETAILS REVISED	L.L
REVn	DATE	DETAILS	INITIAL

TABLE 'A' - SYSTEM COMPONENT SCHEDULE - QUANTITIES / 4m BEAM

SAFEROAD UK PART NUMBER	DESCRIPTION	QUANTITY
SR001	BEAM "A" PROFILE (CAN BE SUBSTITUTED BY SR028)	1
SEE TABLE 'B'	POST "C" 125	2
FOR SCHEDULE OF BOLTED CONNECTIONS REFER TO DRAWING NUMBER N2W2-GA-02		

TABLE 'B' - SCHEDULE OF POST REFERENCE NUMBERS AND LENGTHS

SAFEROAD UK PART NUMBER	POST LENGTH
SR034	1100
SR035	1800
SR036	2000
SR040	2400

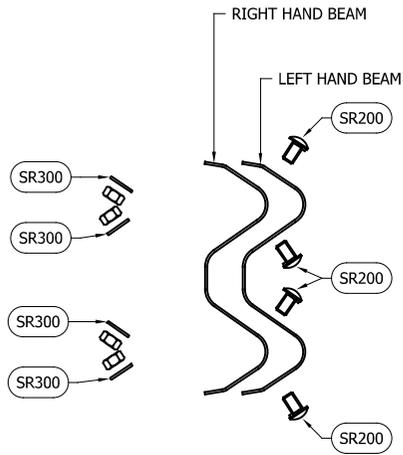
**MegaRail es
N2 W2**

N2.W2 VEHICLE RESTRAINT SYSTEM
ASSEMBLY AND SETTING OUT
ARRANGEMENT

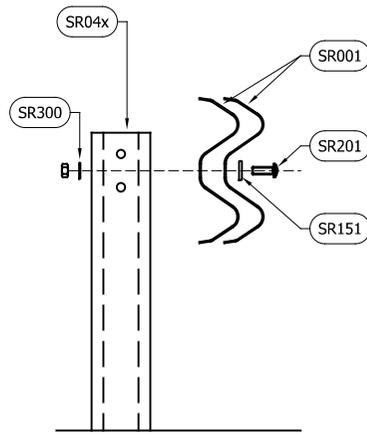
SAFEROAD

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DRAWING NUMBER: **N2W2-GA-01** REVn: **08**



**BEAM TO BEAM CONNECTION
ARRANGEMENT**
(x2 LOCATIONS / BEAM END)



**BEAM TO POST
CONNECTION TYPE 1**

GENERAL NOTES:

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

BOLTING COMPONENT SCHEDULE - QUANTITIES / BEAM		
SAFEROAD UK PART NUMBER	DESCRIPTION	BEAM TO BEAM CONNECTION
SR200	SETSCREW 4.6 LIP M16x27 c/w NUT	8 (+8)
SR300	WASHER M16 18Ø HOLE	8 (+8)

BOLTING COMPONENT SCHEDULE - QUANTITIES / POST		
SAFEROAD UK PART NUMBER	DESCRIPTION	TYPE 1 CONNECTION
SR201	SETSCREW 8,8 M16 x 45 c/w NUT	1
SR151	WASHER PLATE 115 x 40 x 6 DIA. 18	1
SR300	WASHER M16 18Ø HOLE	1

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

REVn	DATE	DETAILS	INITIAL
05	26/11/24	DRAWING UPDATED	H.B
04	12/02/19	TITLEBLOCK REVISED	M.T
03	26/01/17	CODES & DETAILS REVISED	L.L
2,4	20/05/15	DETAILS REVISED	L.L

MegaRail es N2 W2

N2.W2 VEHICLE RESTRAINT SYSTEM
BOLTING ARRANGEMENTS

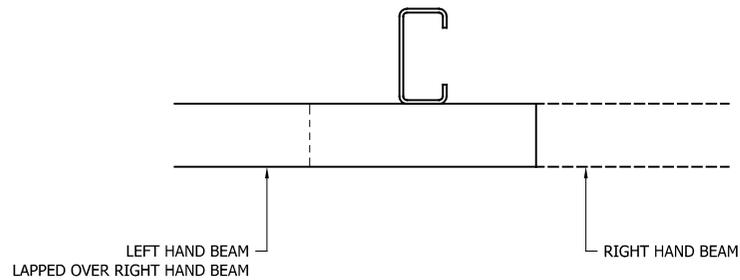
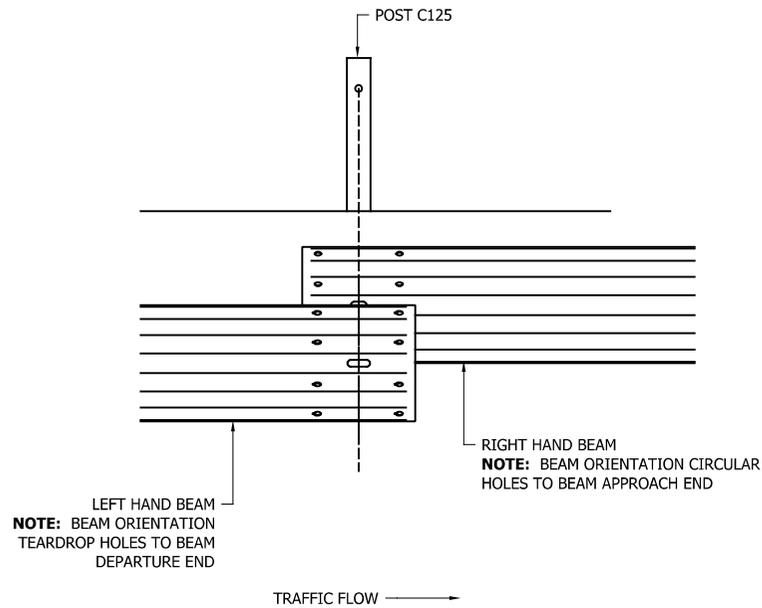


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DRAWING NUMBER:	REVn:
N2W2-GA-02	05

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

REVn	DATE	DETAILS	INITIAL
05	26/11/24	DRAWING UPDATED	H.B
04	12/02/19	TITLEBLOCK REVISED	M.T
03	26/01/17	DETAILS REVISED	L.L
2,4	20/05/15	DETAILS REVISED	L.L

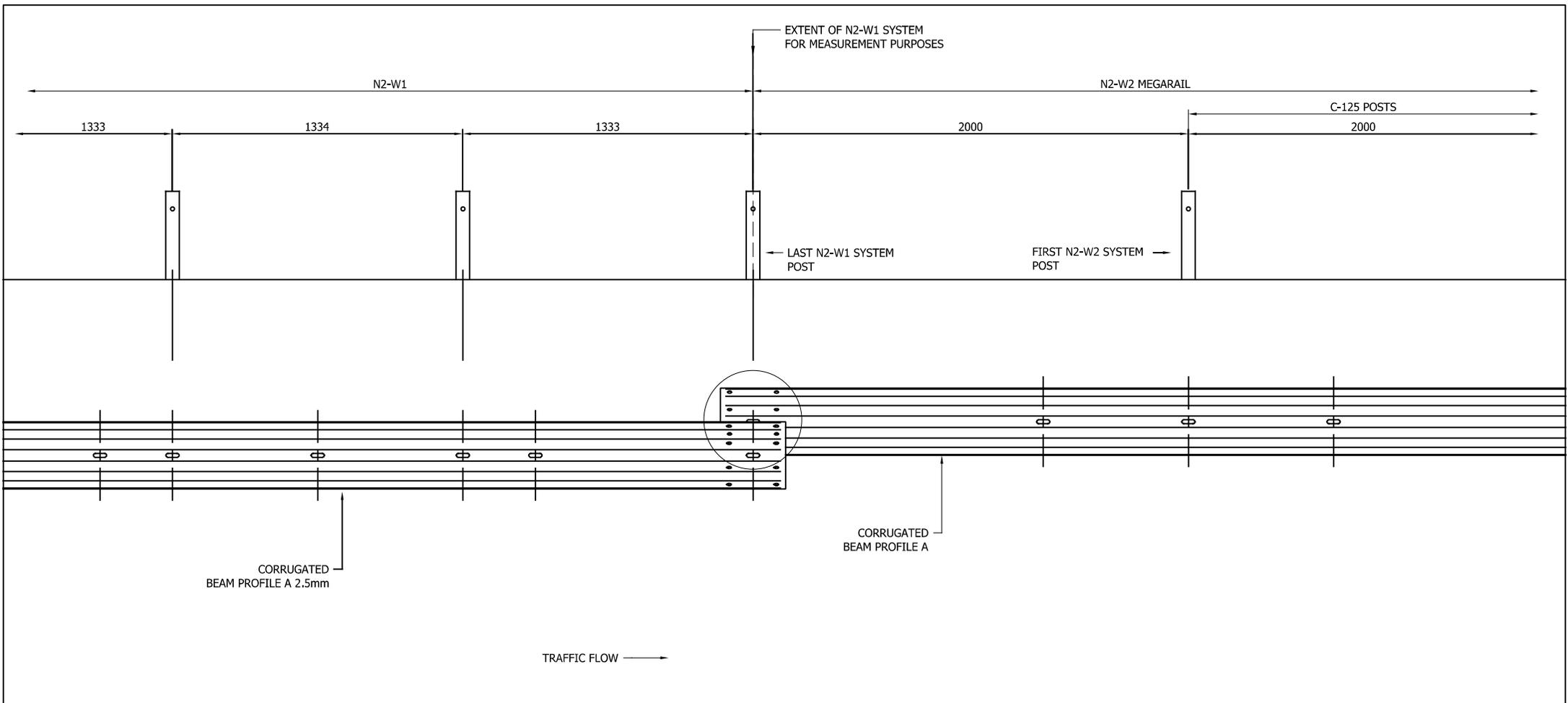
MegaRail es N2 W2

N2.W2 VEHICLE RESTRAINT SYSTEM.
BEAM LAPPING DETAIL FOR W2
MEGARAIL SYSTEM

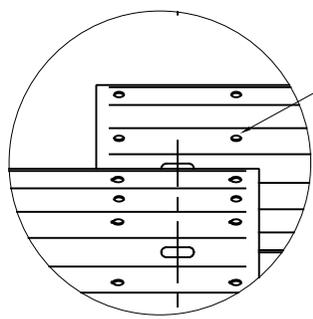


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NORTH LINCOLNSHIRE, DN15 8XE
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DRAWING NUMBER: N2W2-GA-03	REVn: 05
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TRAFFIC FLOW →



NOTE: BEAM ORIENTATION CIRCULAR HOLES TO BEAM APPROACH END

GENERAL NOTES:

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

MegaRail es N2 W2

N2.W2 VEHICLE RESTRAINT SYSTEM.
N2-W1 INTO N2-W2 SYSTEM
PROGRESSION CONNECTION DETAIL



CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

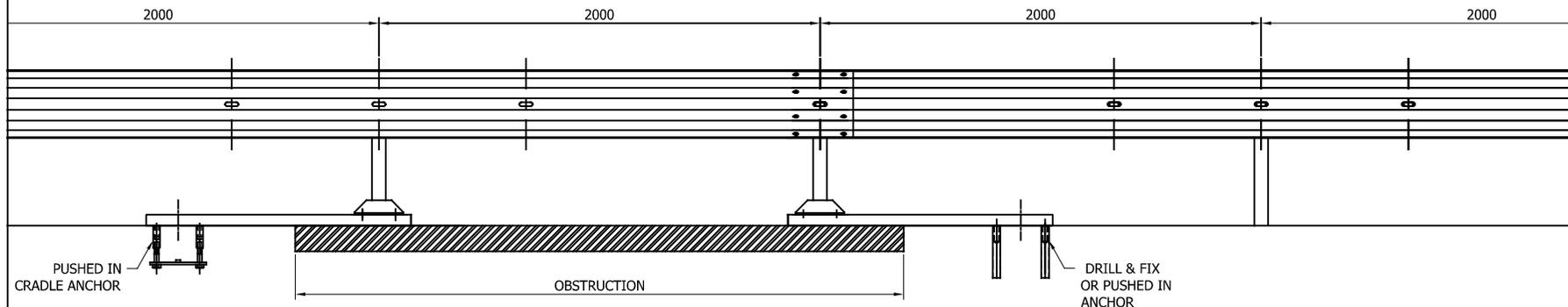
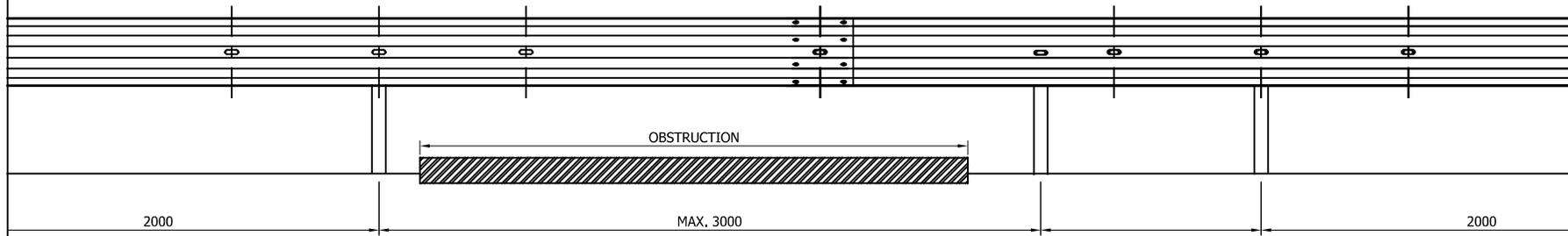
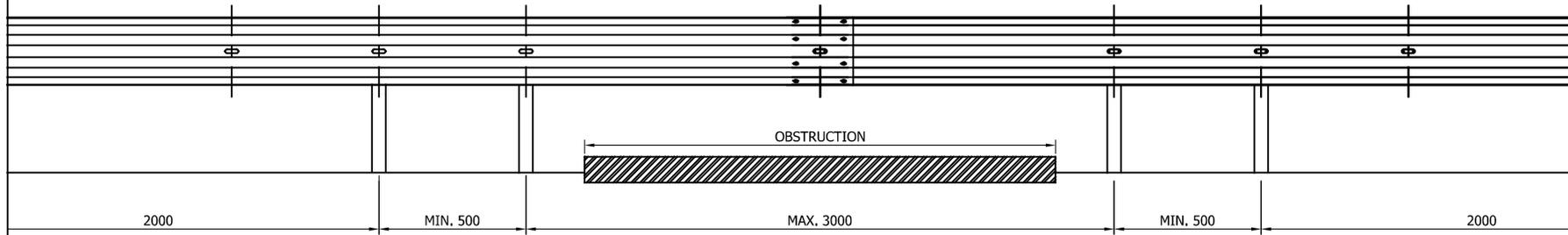
07	26/11/24	DRAWING UPDATED	H.B
06	25/05/21	DETAILS REVISED	M.T
05	12/02/19	DETAILS REVISED	M.T
04	10/03/17	POST DETAILS REVISED	L.L
03	26/01/17	VIEW & DETAILS REVISED	L.L
2.3	20/05/15	DETAILS REVISED	L.L
REVn	DATE	DETAILS	INITIAL

DRAWING NUMBER:	REVn:
N2W2-GA-20	07

** 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. THE NEW POST SPACING MUST NOT EXCEED 3000mm AND MUST NOT BE LESS THAN 500mm. 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 N2W2-GA-00 CAN BE USED, INSERT THE ORIGINAL POST SPACING INSTEAD OF 3000mm



04	26/11/24	DRAWING UPDATED	H,B
03	13/05/22	SURFACE MOUNTED POST BASE CHANGED	A,D
02	12/02/19	TITLEBLOCK REVISED	M,T
01	10/03/17	NOTES REVISED	L,L
00	26/01/17	DRAWING CREATED	L,L
REVn	DATE	DETAILS	INITIAL

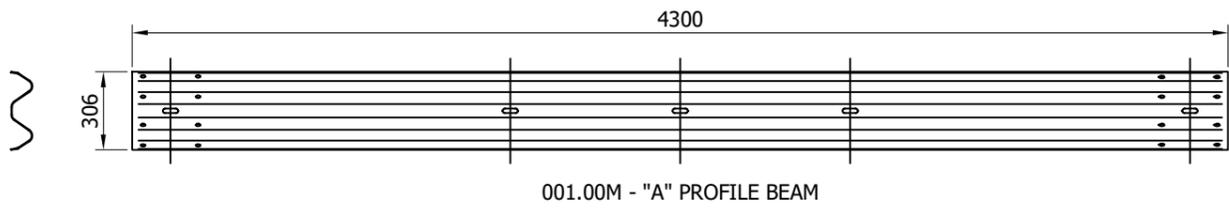
MegaRail es N2 W2

N2.W2 VEHICLE RESTRAINT SYSTEM
DEVIATION SETTING OUT
ARRANGEMENT

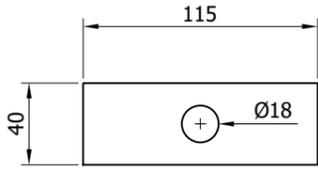


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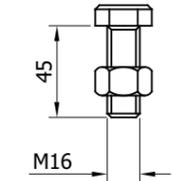
DRAWING NUMBER:	REVn:
N2W2-GA-40	04



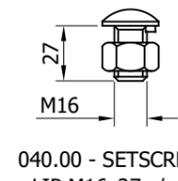
001.00M - "A" PROFILE BEAM



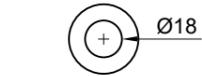
010.40 - WASHER PLATE
115 x 40 x 6 DIA. 18



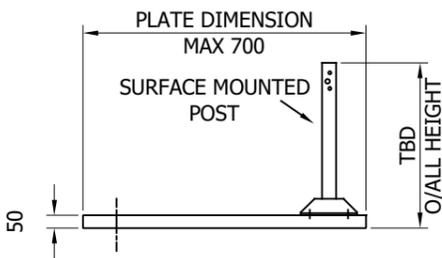
040.04 - SETSCREW 8.8
M16x45 c/w NUT



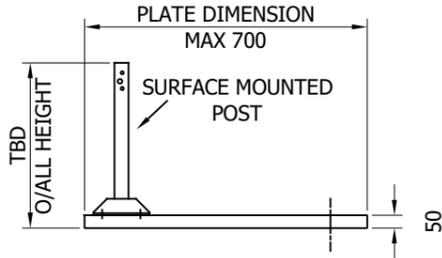
040.00 - SETSCREW 4.6
LIP M16x27 c/w NUT



040.30 - M16
WASHER 18Ø HOLE

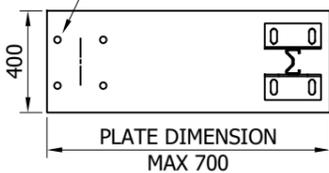


APPROACH
OFFSET POST



DEPARTURE
OFFSET POST

CAN BE FIXED WITH
CAST IN ANCHORS, DRILL
AND FIX ANCHORS OR
PUSHED IN ANCHORS
AT 180x180 CENTERS



BASEPLATE DRILL &
TAPPED FOR LIFTING EYE

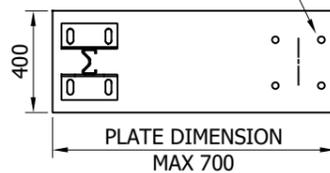
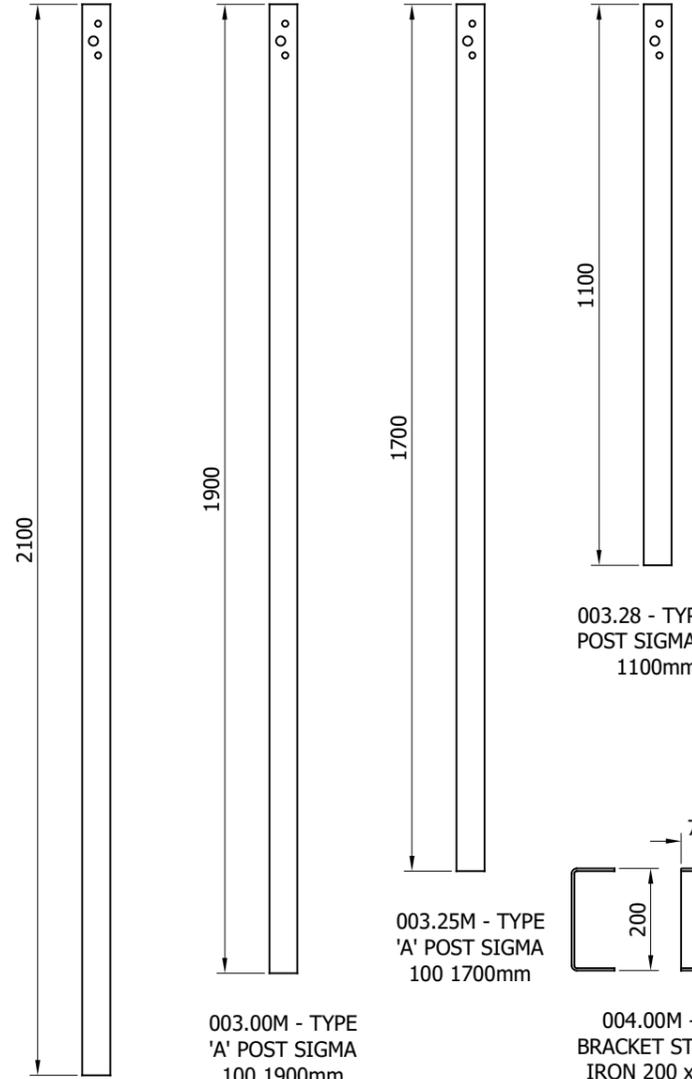
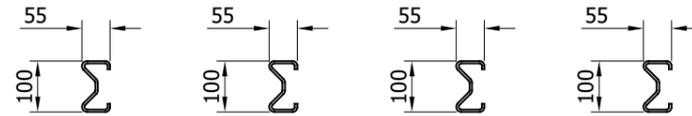


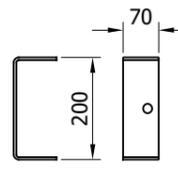
PLATE DIMENSION
MAX 700



003.27 - TYPE 'A'
POST SIGMA 100
2100mm

003.00M - TYPE
'A' POST SIGMA
100 1900mm

003.25M - TYPE
'A' POST SIGMA
100 1700mm

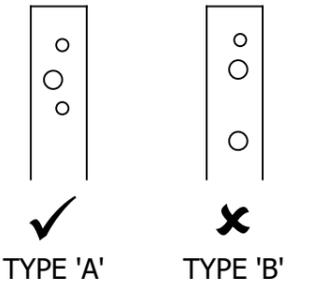


004.00M -
BRACKET STUB
IRON 200 x 3

003.28 - TYPE 'A'
POST SIGMA 100
1100mm

SURFACE MOUNTED TYPE
'A' SIGMA 100 POST

POST TOP DRILLING
ARRANGEMENT



TYPE 'A'

TYPE 'B'

REVn	DATE	DETAILS	INITIAL
2.5	31/05/22	OFFSET PLATE DETAIL CHANGED	A.D
2.4	25/05/22	SURFACE MOUNTED POST BASE CHANGED	A.D
2.3	21/05/15	DETAILS REVISED	L.L

MegaRail e
N2 B W3

N2.W3 ROAD RESTRAINT SYSTEM
COMPONENTS SCHEMATIC

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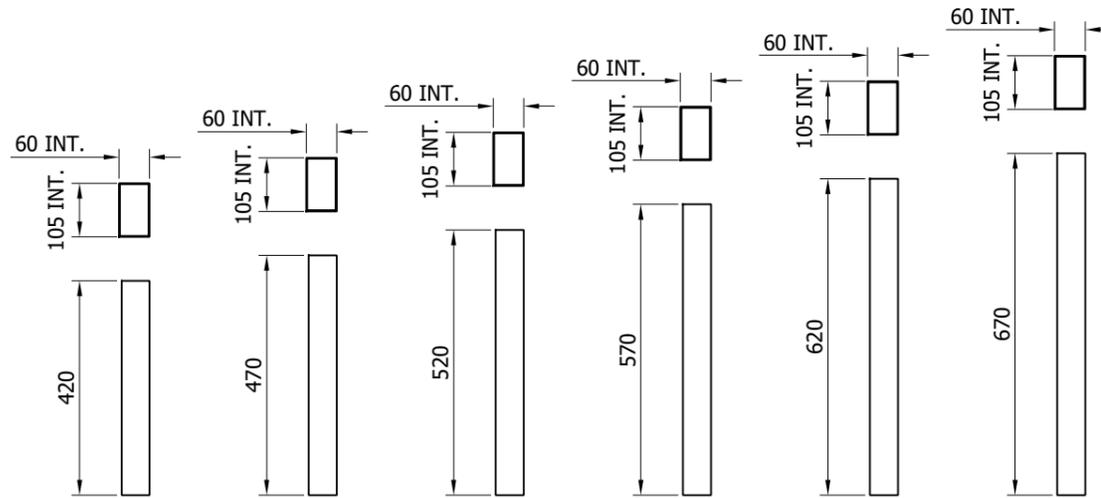
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

N2W3-GA-00 v2.5



NP001 - A21
REINFORCING
RING



MR230 - SIGMA
100 POST
SOCKET x 420

MR231 - SIGMA
100 POST
SOCKET x 470

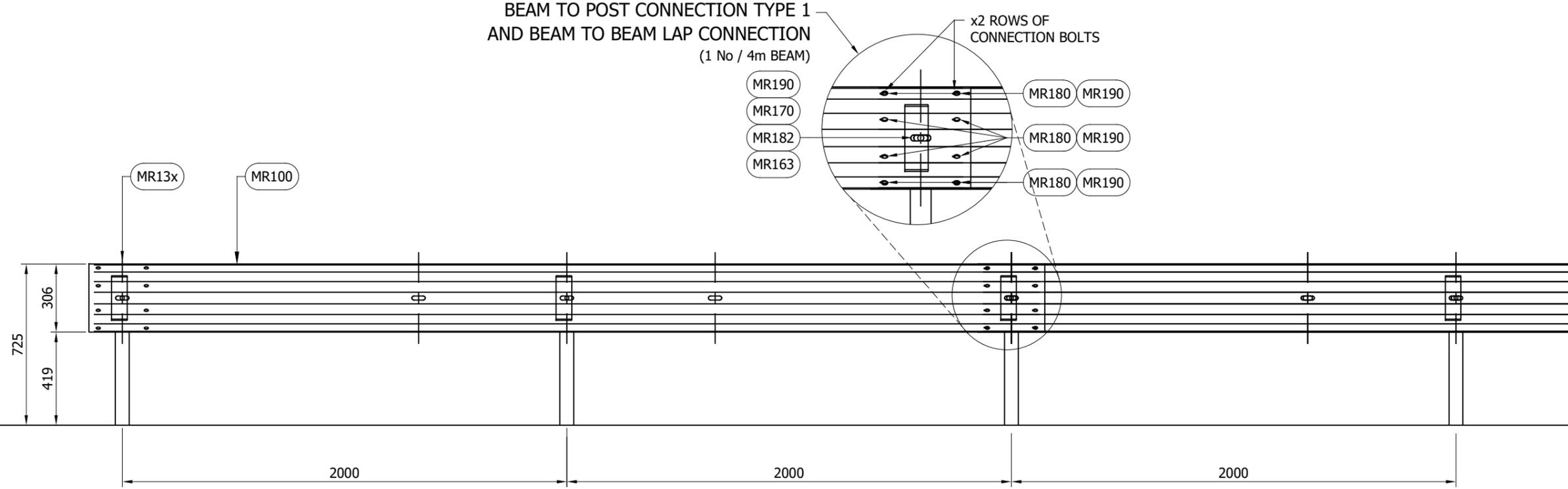
MR232 - SIGMA
100 POST
SOCKET x 520

MR203 - SIGMA
100 POST
SOCKET x 570

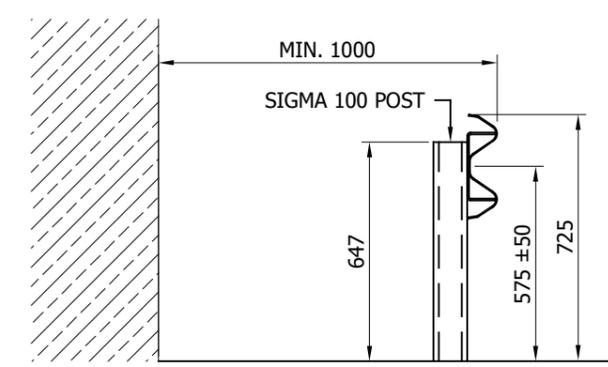
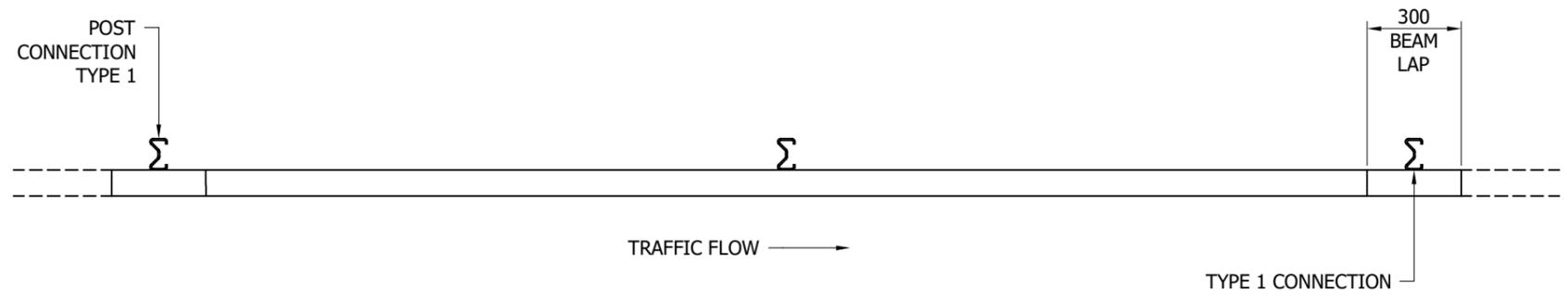
MR204 - SIGMA
100 POST
SOCKET x 620

MR205 - SIGMA
100 POST
SOCKET x 670

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



- GENERAL NOTES:**
1. P.S.B. = POINT FROM WHERE SET-BACK IS MEASURED.
 2. POSTS ARE TO BE INSTALLED WITH THE CLOSED FACE OF THE CHANNEL TOWARDS THE ON-COMING TRAFFIC.
 3. FOR OPTIONS ON POST FOUNDATIONS REFER TO DRAWING NUMBER MR-GA-020
 4. FOR DEVIATIONS IN SYSTEM POST PITCH REFER TO SECTION 8 OF SAFEROAD MEGARAIL MANUAL, DEVIATION CHART
 5. WHEN TYING INTO ADJACENT VRS ONLY ONE WORKING WIDTH DIFFERENCE IS PERMITTED.
 6. WHERE A KERB IS PRESENT THE MAXIMUM KERB HEIGHT IS 125mm.
 7. FOR MINIMUM LENGTH OF FULL HEIGHT VRS REFER TO SAFEROAD MEGARAIL MANUAL.



REVn	DATE	DETAILS	INITIAL
2.4	25/05/22	ADDRESS CHANGED	A.D
2.3	21/05/15	DETAILS REVISED	L.L

OUTIMEX MANUFACTURING REFERENCE	SAFEROAD UK PART NUMBER	DESCRIPTION	QUANTITY
001.00M	MR001	BEAM "A" PROFILE	1
004.00M	MR035	BRACKET STUB IRON 200 x 3	2
003.xx		POST SIGMA 100	2

FOR SCHEDULE OF BOLTED CONNECTIONS REFER TO DRAWING NUMBER N2W3-GA-02

OUTIMEX MANUFACTURING REF.	SAFEROAD UK PART NUMBER	POST LENGTH
003.28	MR031	1100
003.25M	MR032	1700
003.00M	MR033	1900
003.27	MR034	2100

**MegaRail e
N2 B W3**

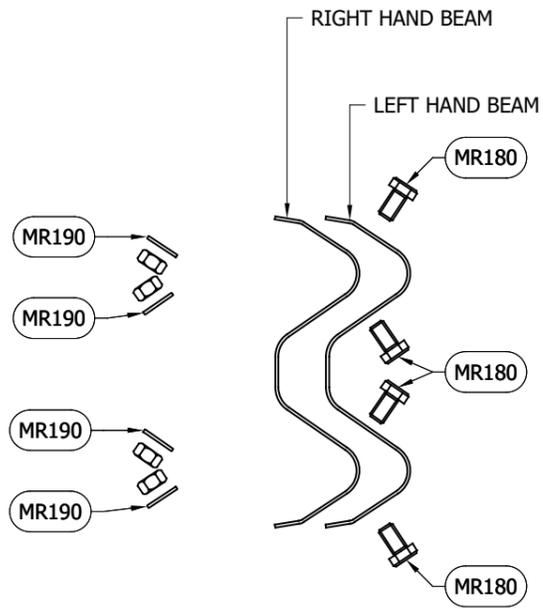
N2.W3 ROAD RESTRAINT SYSTEM
ASSEMBLY AND SETTING OUT
ARRANGEMENT

SAFEROAD®

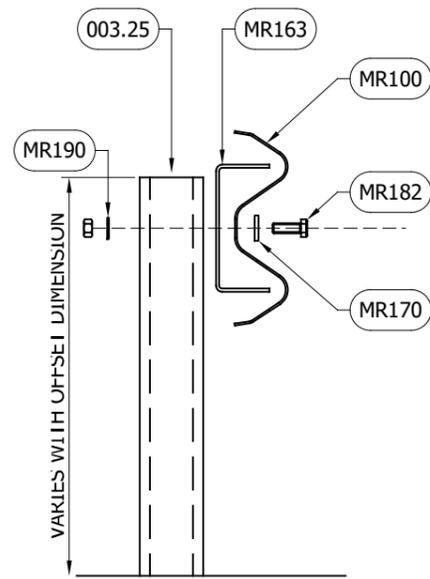
CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
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t: 01724 289119

FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:
N2W3-GA-01 v2.4



**BEAM TO BEAM LAP
CONNECTION ARRANGEMENT**
(x2 LOCATIONS / BEAM END)



**BEAM TO POST
CONNECTION TYPE 1**

GENERAL NOTES:

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

BOLTING COMPONENT SCHEDULE - QUANTITIES / BEAM			
OUTIMEX MANUFACTURING REFERENCE	SAFEROAD UK PART NUMBER	DESCRIPTION	BEAM TO BEAM CONNECTION
040.00	MR180	SETSCREW 4.6 LIP M16x27 c/w NUT	8 (+8)
040.30	MR220	WASHER M16 18Ø HOLE	8 (+8)

BOLTING COMPONENT SCHEDULE - QUANTITIES / POST			
OUTIMEX MANUFACTURING REFERENCE	SAFEROAD UK PART NUMBER	DESCRIPTION	TYPE 1 CONNECTION
040.04	MR182	SETSCREW 8.8 M16x45 c/w NUT	1
010.40	MR160	WASHER PLATE 115 x 40 x 6 DIA. 18	1
040.30	MR220	WASHER M16 18Ø HOLE	1
QUANTITY OF CONNECTION TYPES / 4m BEAM			
			2 (+1)

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

REVn	DATE	DETAILS	INITIAL
2.4	25/05/22	ADDRESS CHANGED	A.D
2.3	21/05/15	DETAILS REVISED	L.L

**MegaRail e
N2 B W3**

N2.W3 ROAD RESTRAINT SYSTEM
BOLTING ARRANGEMENTS

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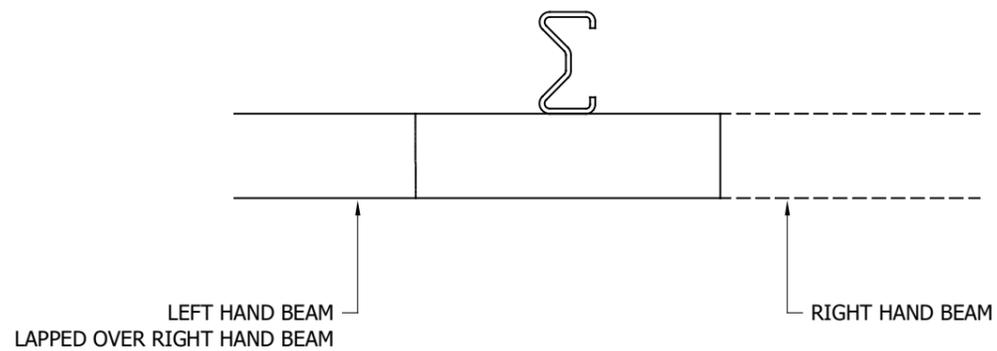
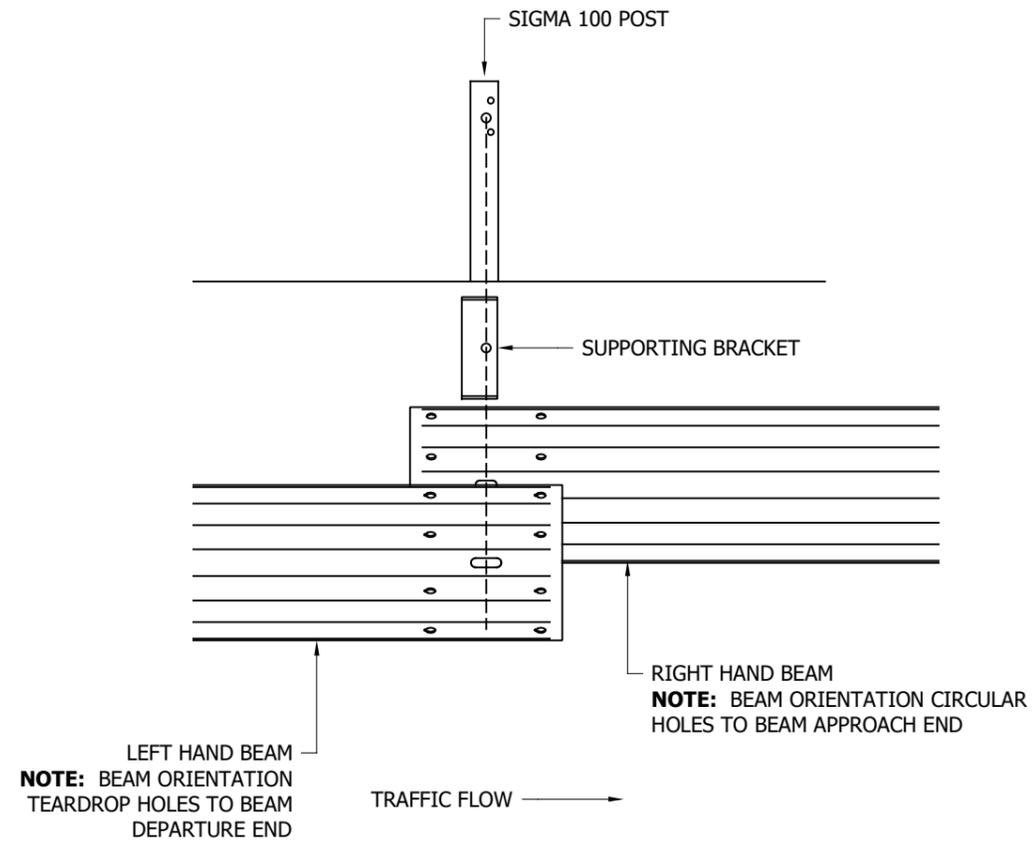
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

N2W3-GA-02 v2.4

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

REVn	DATE	DETAILS	INITIAL
2.4	25/05/22	ADDRESS CHANGED	A.D
2.3	21/05/15	DETAILS REVISED	L.L

MegaRail e N2 B W3

N2.W3 ROAD RESTRAINT SYSTEM.
BEAM LAPPING DETAIL FOR W3
MEGARAIL SYSTEM

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NORTH LINCOLNSHIRE, DN15 8XE
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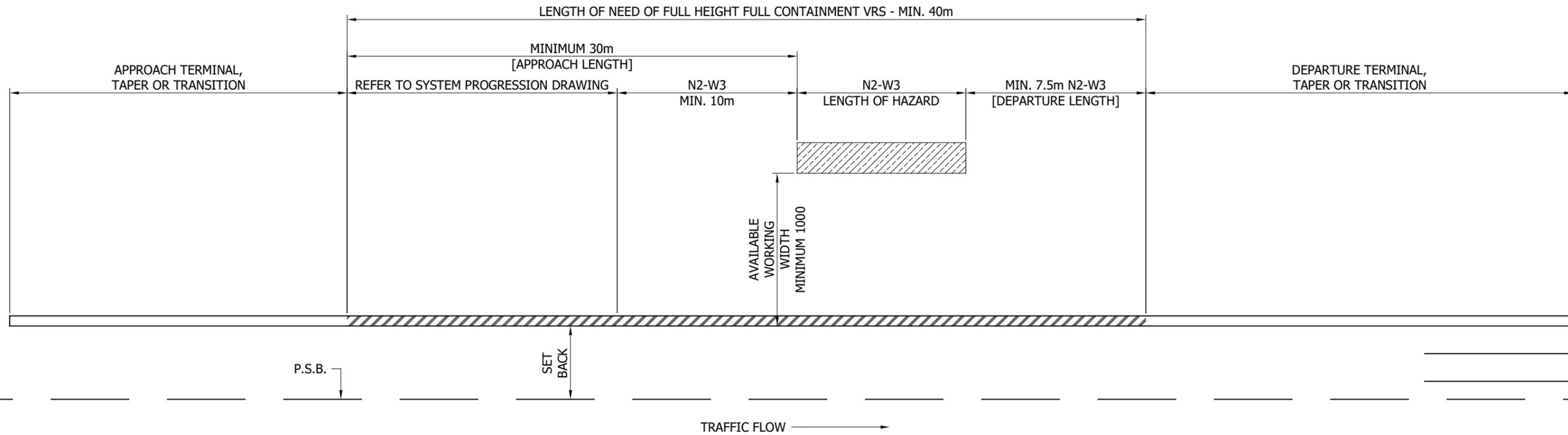
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

N2W3-GA-03 v2.4

GENERAL NOTES:

1. P.S.B. = POINT FROM WHERE SET-BACK IS MEASURED.
2. POSTS ARE TO BE INSTALLED WITH THE CLOSED FACE OF THE CHANNEL TOWARDS THE ON-COMING TRAFFIC.
3. MINIMUM LENGTH OF FULL HEIGHT VRS IS 40m



REVn	DATE	DETAILS	INITIAL
2.4	25/05/22	ADDRESS CHANGED	A.D
2.3	21/05/15	DETAILS REVISED	L.L

MegaRail e N2 B W3

ROAD RESTRAINT SYSTEM.
SYSTEM PROGRESSION SCHEMATIC
FOR N2.W3 PROTECTION TO HAZARD

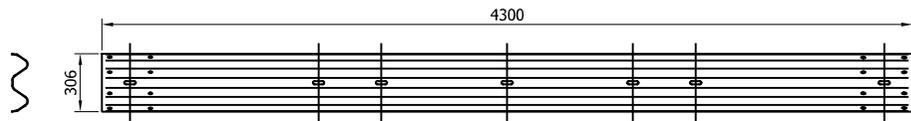
SAFEROAD®

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NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119

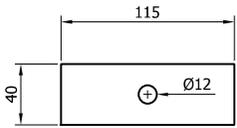
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

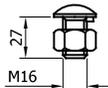
N2W3-GA-10 v2.4



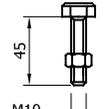
SR022 - 2.4mm BEAM ONLY
HAS I.D HOLE AT TEARDROP END OF BEAM



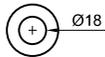
SR152 - WASHER PLATE 115 x 40 x 5 DIA.12



SR200 - SETSCREW 4.6 LIP M16x27 c/w NUT



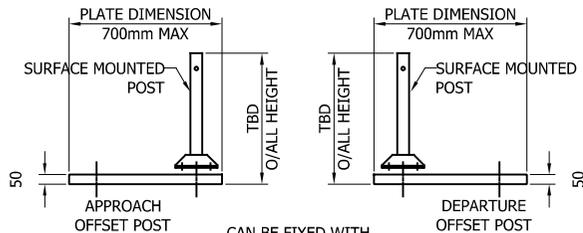
SR124 - SETSCREW M10x45 c/w NUT



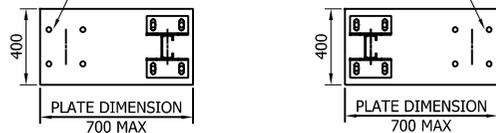
SR300 - M16 WASHER 18φ HOLE



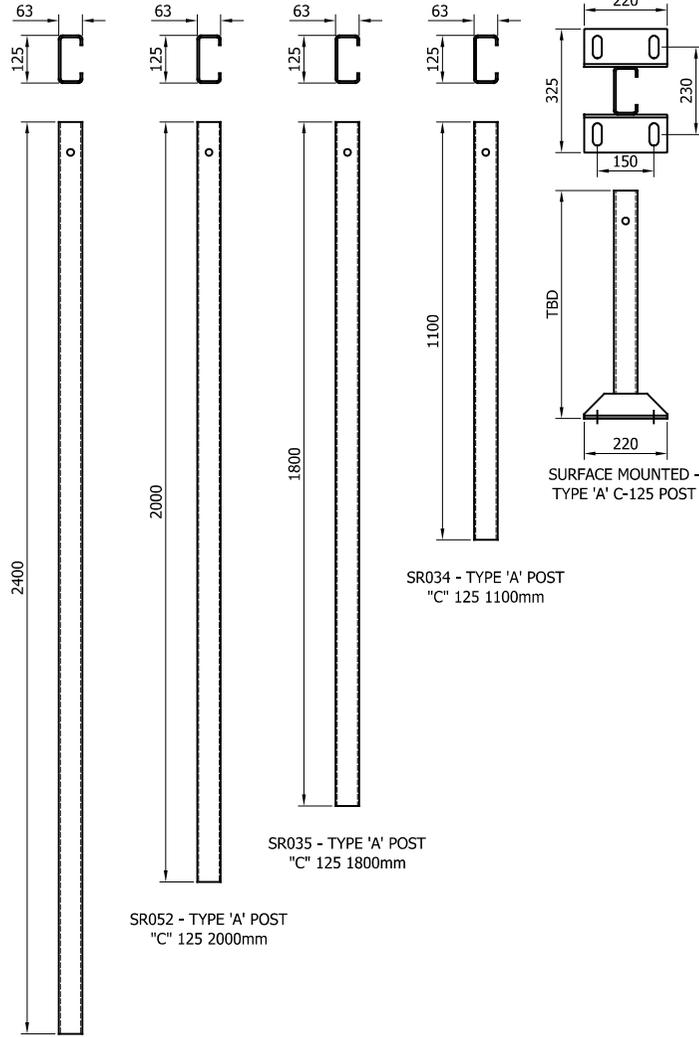
SR301 - M10 WASHER 11φ HOLE



CAN BE FIXED WITH CAST IN ANCHORS, DRILL AND FIX ANCHORS OR PUSHED IN ANCHORS AT 180x180 CENTERS



*BASEPLATE DRILL & TAPPED FOR LIFTING EYE

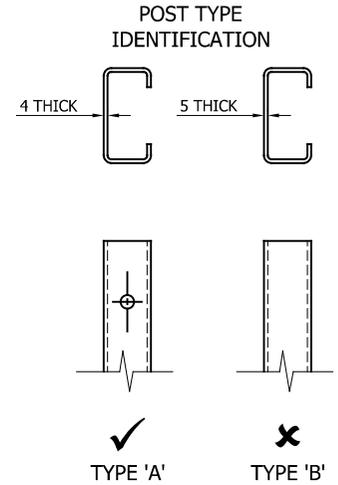


SR034 - TYPE 'A' POST "C" 125 1100mm

SR035 - TYPE 'A' POST "C" 125 1800mm

SR052 - TYPE 'A' POST "C" 125 2000mm

SR064 - TYPE 'A' POST "C" 125 2400mm



REVn	DATE	DETAILS	INITIAL
09	21/05/24	BEAM SLOTS REVISED	H.B
08	15/12/22	POST CODES REVISED	H.B
07	27/06/22	NOTE ADDED TO BEAM	A,D
06	13/05/22	SURFACE MOUNTED POST BASE CHANGED	A,D
05	27/05/21	DETAILS REVISED	M,T
04	12/02/19	TITLEBLOCK REVISED	H.B
03	10/03/17	OFFSET POST REVISED	L,L
02	30/01/17	DETAILS REVISED	L,L
1.0	20/05/15	DETAILS REVISED	L,L

MegaRail en N2 W4

N2.W4 VEHICLE RESTRAINT SYSTEM COMPONENTS SCHEMATIC

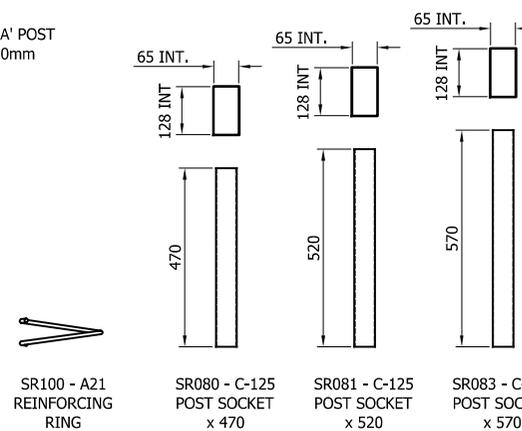


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DRAWING NUMBER: REVn:

N2W4en-GA-00

09

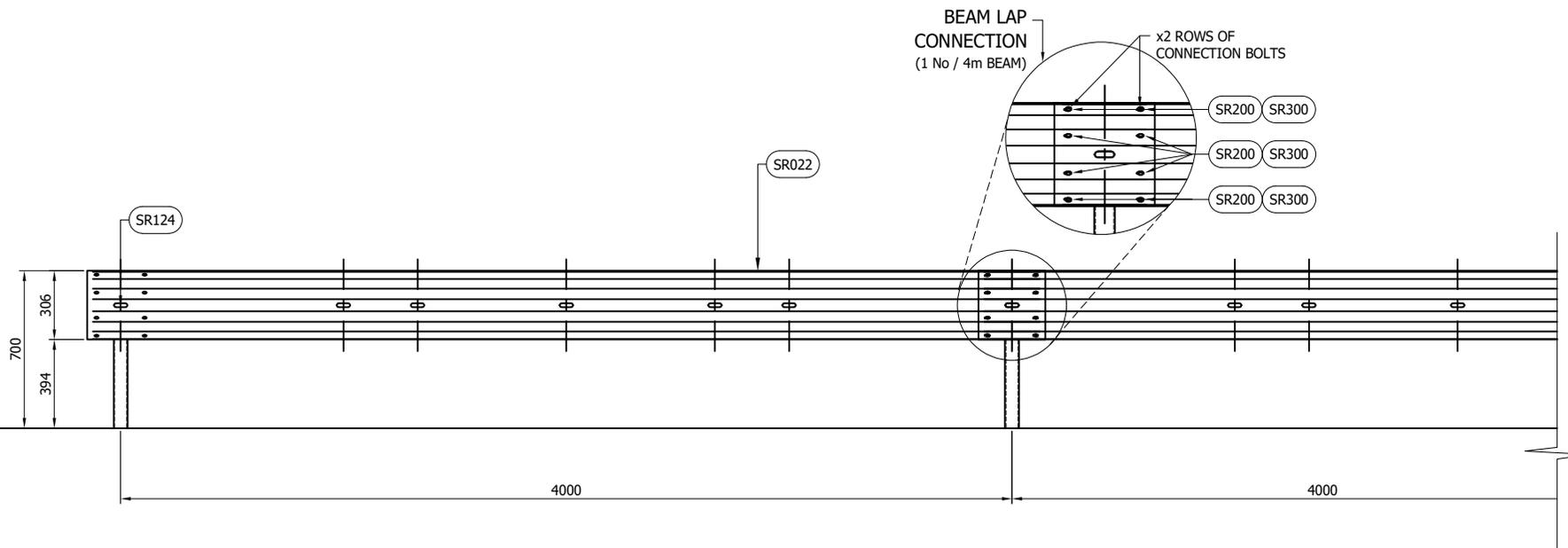


SR100 - A21 REINFORCING RING

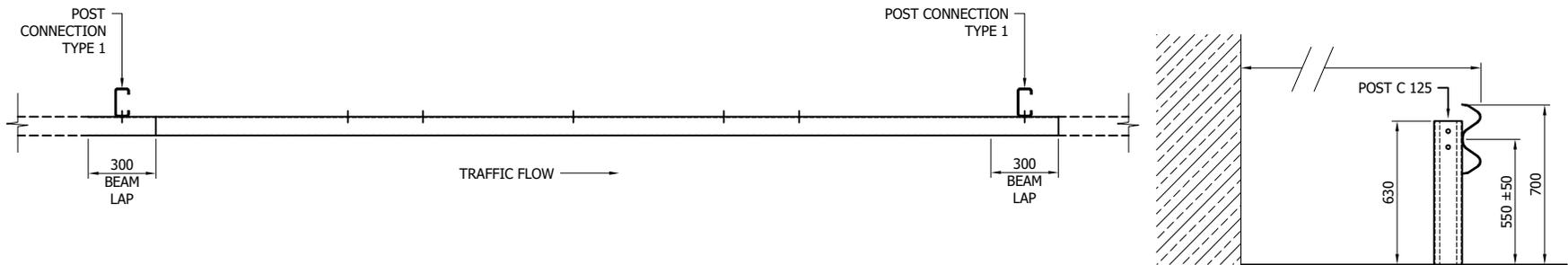
SR080 - C-125 POST SOCKET x 470

SR081 - C-125 POST SOCKET x 520

SR083 - C-125 POST SOCKET x 570



- 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 N2W4en-GA-40.
 4. WHEN TYING INTO ADJACENT VRS ONLY ONE WORKING WIDTH DIFFERENCE IS PERMITTED. SEE SYSTEM PROGRESSION DETAILS.
 5. SEE MR-GA-001 & MR-GA-003 FOR DETAILS OF SYSTEM HEIGHT WITH REFERENCE TO SETBACK & KERB HEIGHT
 6. FOR MINIMUM LENGTH OF FULL HEIGHT VRS REFER TO SAFEROAD MEGARAIL MANUAL.



MegaRail en N2 W4

N2.W4 VEHICLE RESTRAINT SYSTEM ASSEMBLY AND SETTING OUT ARRANGEMENT



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TABLE 'A' - SYSTEM COMPONENT SCHEDULE - QUANTITIES / 4m BEAM

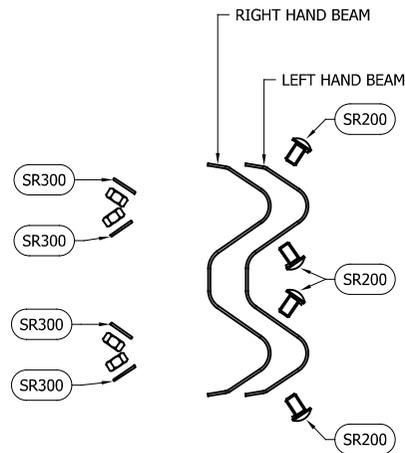
SAFEROAD UK PART NUMBER	DESCRIPTION	QUANTITY
SR022	BEAM "A" PROFILE	1
SEE TABLE 'B'	POST "C" 125	1
FOR SCHEDULE OF BOLTED CONNECTIONS REFER TO DRAWING NUMBER N2W4en-GA-02		

TABLE 'B' - SCHEDULE OF POST REFERENCE NUMBERS AND LENGTHS

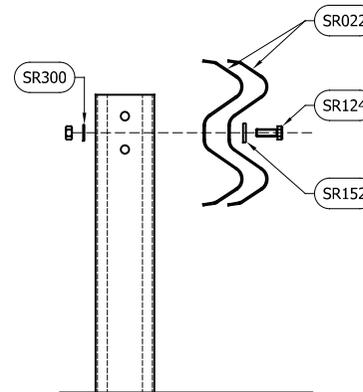
SAFEROAD UK PART NUMBER	POST LENGTH
SR034	1100
SR035	1800
SR052	2000
SR064	2400

REVn	DATE	DETAILS	INITIAL
06	21/05/24	BEAM SLOTS REVISED	H.B
05	15/12/22	POST CODES REVISED	H.B
04	01/04/19	SECTION HEIGHTS REVISED	M.T
03	12/02/19	TITLEBLOCK REVISED	H.B
02	30/01/17	DETAILS REVISED	L.L
1.0	20/05/15	DETAILS REVISED	L.L

DRAWING NUMBER:	REVn:
N2W4en-GA-01	06



BEAM TO BEAM CONNECTION ARRANGEMENT
(x2 LOCATIONS / BEAM END)



BEAM TO POST CONNECTION TYPE 1

BOLTING COMPONENT SCHEDULE - QUANTITIES / BEAM		
SAFEROAD UK PART NUMBER	DESCRIPTION	BEAM TO BEAM CONNECTION
SR200	SETSCREW 4.6 LIP M16x27 c/w NUT	8 (+8)
SR300	WASHER M16 18 ϕ HOLE	8 (+8)

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

BOLTING COMPONENT SCHEDULE - QUANTITIES / POST		
SAFEROAD UK PART NUMBER	DESCRIPTION	TYPE 1 CONNECTION
SR124	SETSCREW M10 x 45 c/w NUT	1
SR152	WASHER PLATE 115 x 40 x 5 DIA. 12	1
SR300	WASHER M10 11 ϕ HOLE	1

GENERAL NOTES:

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

05	21/05/24	DRAWING UPDATED	H,B
04	30/08/19	FIXING DETAILS REVISED	M,T
03	12/02/19	TITLEBLOCK REVISED	H,B
02	30/01/17	DETAILS REVISED	L,L
1.0	20/05/15	DETAILS REVISED	L,L
REVn	DATE	DETAILS	INITIAL

MegaRail en N2 W4

N2.W4 VEHICLE RESTRAINT SYSTEM
BOLTING ARRANGEMENTS



CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

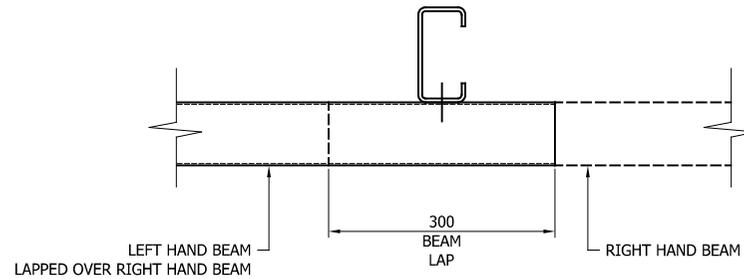
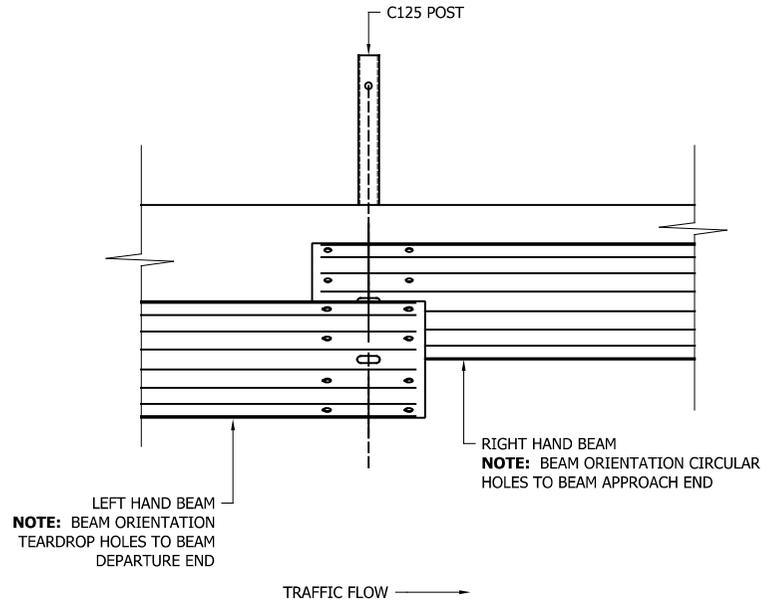
DRAWING NUMBER: REVN:

N2W4en-GA-02

05

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

REVn	DATE	DETAILS	INITIAL
04	21/05/24	DRAWING UPDATED	H.B
03	12/02/19	TITLEBLOCK REVISED	H.B
02	30/01/17	DETAILS REVISED	L.L
1.0	20/05/15	DETAILS REVISED	L.L

MegaRail en N2 W4

N2.W4 VEHICLE RESTRAINT SYSTEM.
BEAM LAPPING DETAIL FOR W4
MegaRail en SYSTEM



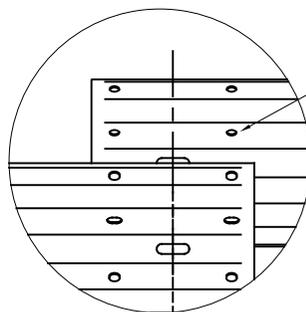
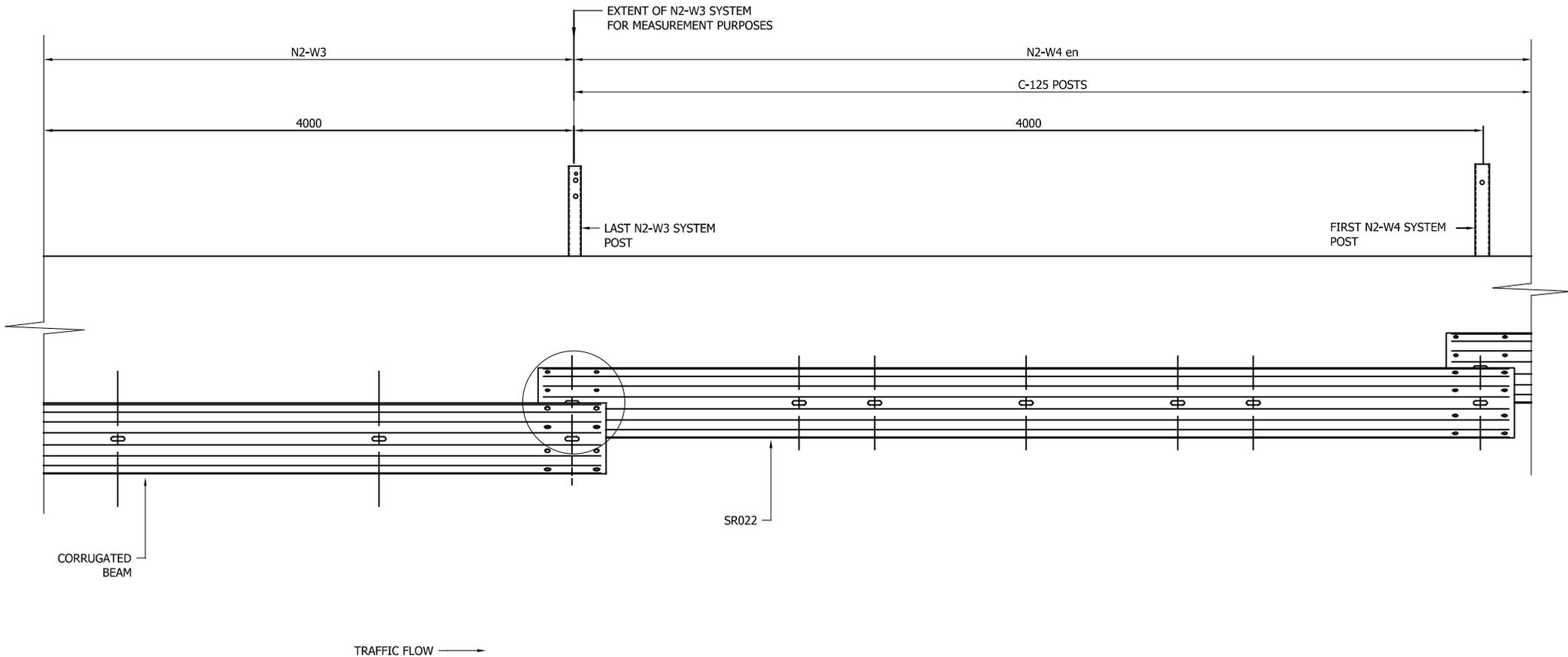
CONCORD HOUSE,
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DRAWING NUMBER:

N2W4en-GA-03

REVn:

04



NOTE: BEAM ORIENTATION CIRCULAR HOLES TO BEAM APPROACH END

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

GENERAL NOTES:

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

MegaRail en N2 W4

VEHICLE RESTRAINT SYSTEM.
SYSTEM PROGRESSION SCHEMATIC
FOR W4 PROTECTION TO HAZARD



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john.cudlipp@saferoad.co.uk

REV#	DATE	DETAILS	INITIAL
03	21/05/24	BEAM SLOTS REVISED	H.B
02	12/02/19	TITLEBLOCK REVISED	H.B
01	10/03/17	POST DESCRIPTION REV	L.L
00	30/01/17	NEW DRAWING	L.L

DRAWING NUMBER:

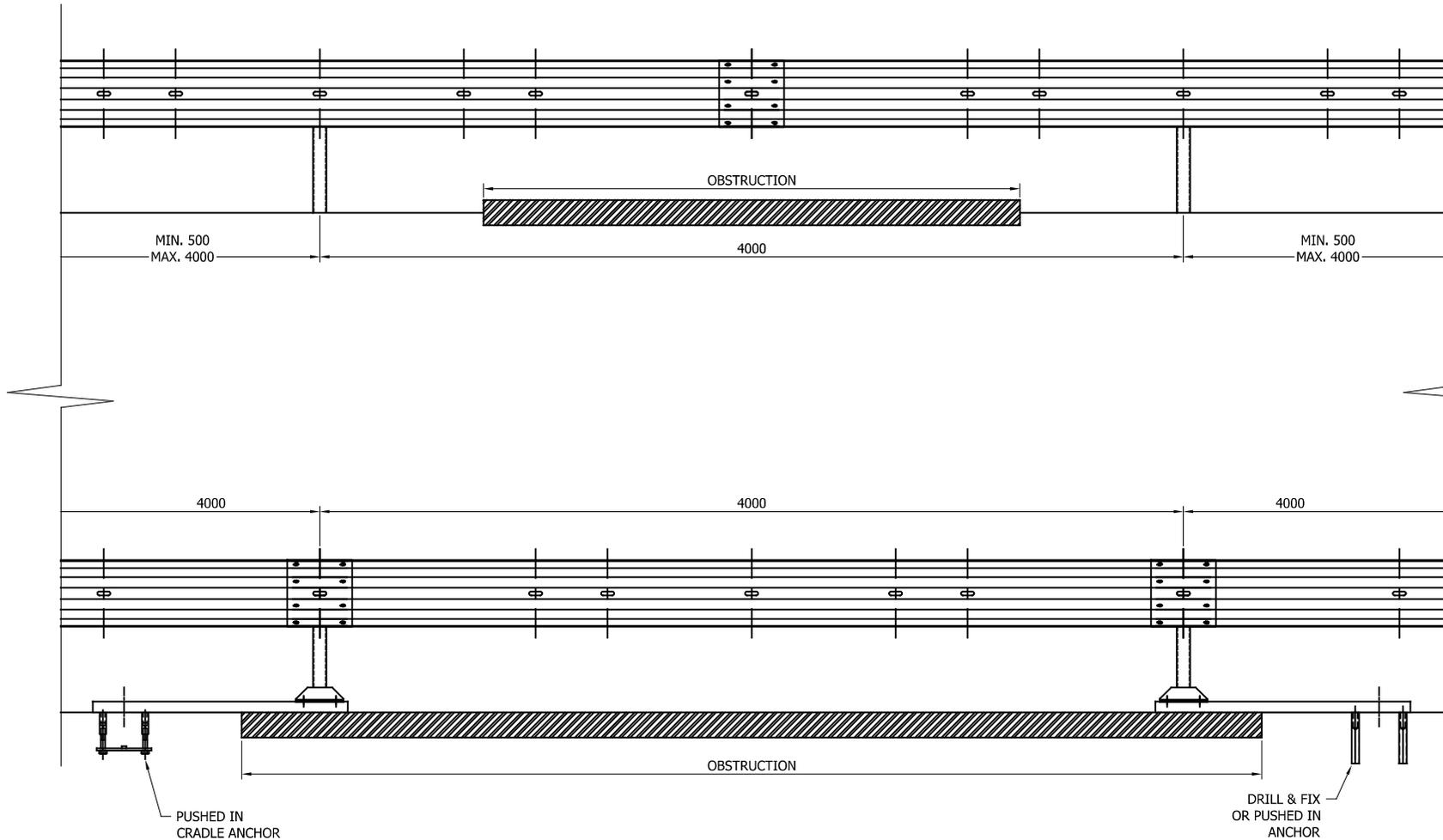
N2W4en-GA-20

REV#:

03

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 N2W4en-GA-00 CAN BE USED.



05	21/05/24	BEAM SLOTS REVISED	H,B
04	13/05/22	SURFACE MOUNTED POST BASE CHANGED	A,D
03	23/07/21	SURFACE MOUNTED POST DETAIL ADDED	A,D
02	25/05/21	DETAILS REVISED	M,T
01	12/02/19	TITLEBLOCK REVISED	H,B
00	30/01/17	NEW DRAWING	L,L
REVn	DATE	DETAILS	INITIAL

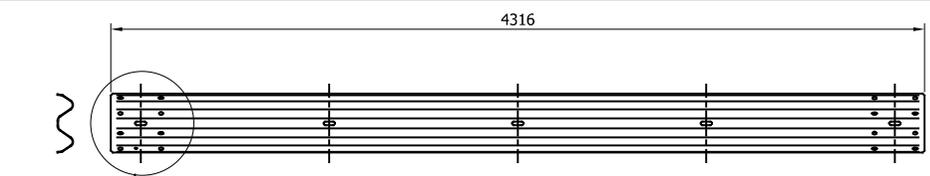
MegaRail en N2 W4

N2.W4 VEHICLE RESTRAINT SYSTEM
DEVIATION SETTING OUT
ARRANGEMENT

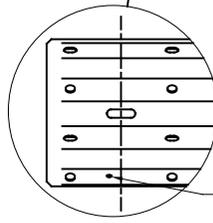


CONCORD HOUSE,
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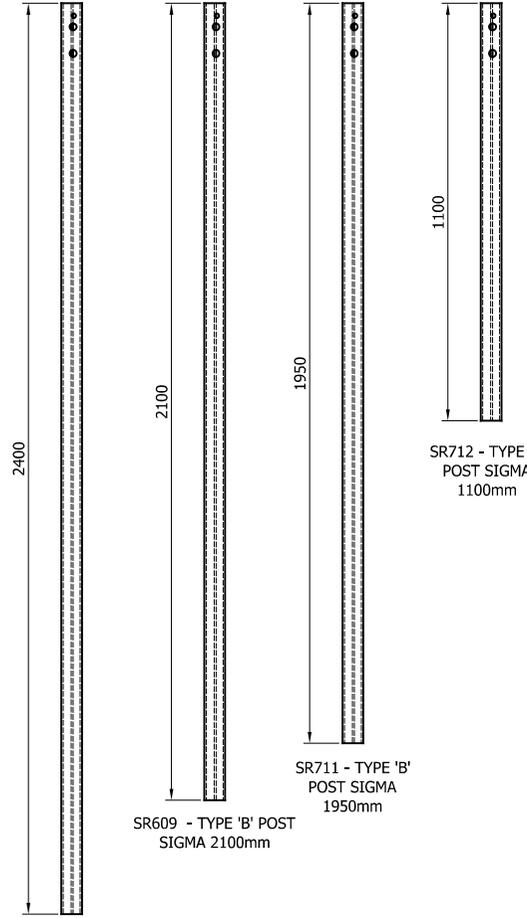
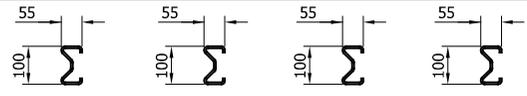
DRAWING NUMBER:	REVn:
N2W4en-GA-40	05



SR700 - CORRUGATE BEAM
VIK BEAM - CORNERS CHAMFERED
(ALSO USED ON SAFEND P1 AND MEGAGUARD)



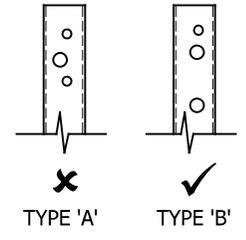
NOTE: THIS HOLE IDENTIFIES THE REQUIRED ORIENTATION OF THE BEAM AND THE BEAM END WITH THE ADDITIONAL HOLE SHOULD BE SITED AS THE REAR BEAM AT LAP JOINTS



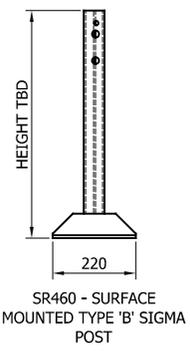
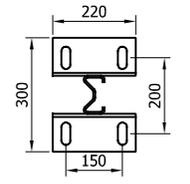
SR613 - TYPE 'B' POST SIGMA 2400mm

SR100 - A21 REINFORCING RING

POST TOP DRILLING ARRANGEMENT



TYPE 'A' TYPE 'B'

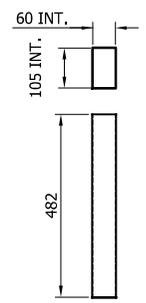


SR712 - TYPE 'B' POST SIGMA 1100mm

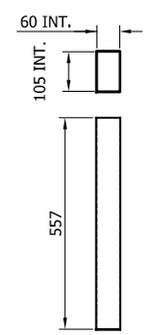
SR460 - SURFACE MOUNTED TYPE 'B' SIGMA POST

SR711 - TYPE 'B' POST SIGMA 1950mm

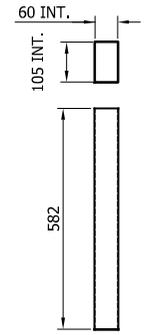
SR609 - TYPE 'B' POST SIGMA 2100mm



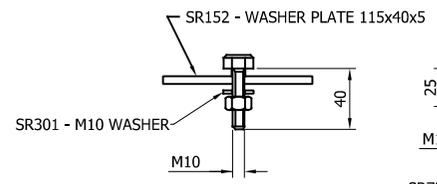
SR090 - SIGMA 100 POST SOCKET x 482



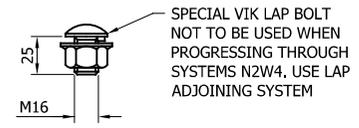
SR091 - SIGMA 100 POST SOCKET x 557



SR092 - SIGMA 100 POST SOCKET x 582



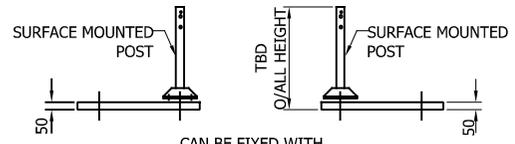
SR464 - M10x40 BOLT (GRADE 4.6) c/w NUT (DO NOT OVERTIGHTEN 10 to 17Nm)



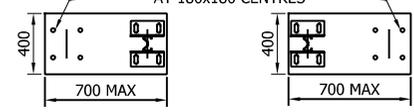
SR730 - SETSCREW 8.8 LIP M16x25 c/w FLANGE NUT

SPECIAL VIK LAP BOLT NOT TO BE USED WHEN PROGRESSING THROUGH SYSTEMS N2W4. USE LAP ADJOINING SYSTEM

M10 BOLT MUST BE USED TO ACHIEVE W5 (1.7M) SYSTEM WORKING WIDTH



CAN BE FIXED WITH CAST IN ANCHORS, DRILL AND FIX ANCHORS OR PUSHED IN ANCHORS AT 180x180 CENTRES



BASEPLATE DRILL & TAPPED FOR LIFTING EYE

REVn	DATE	DETAILS	INITIAL
03	13/11/24	FLANGE NUT DETAIL ADDED	H.B
02	11/10/24	DRAWING UPDATED	H.B
01	17/04/23	SOCKET SIZES UPDATED	H.B
00	18/08/20	DRAWING CREATED	H.B

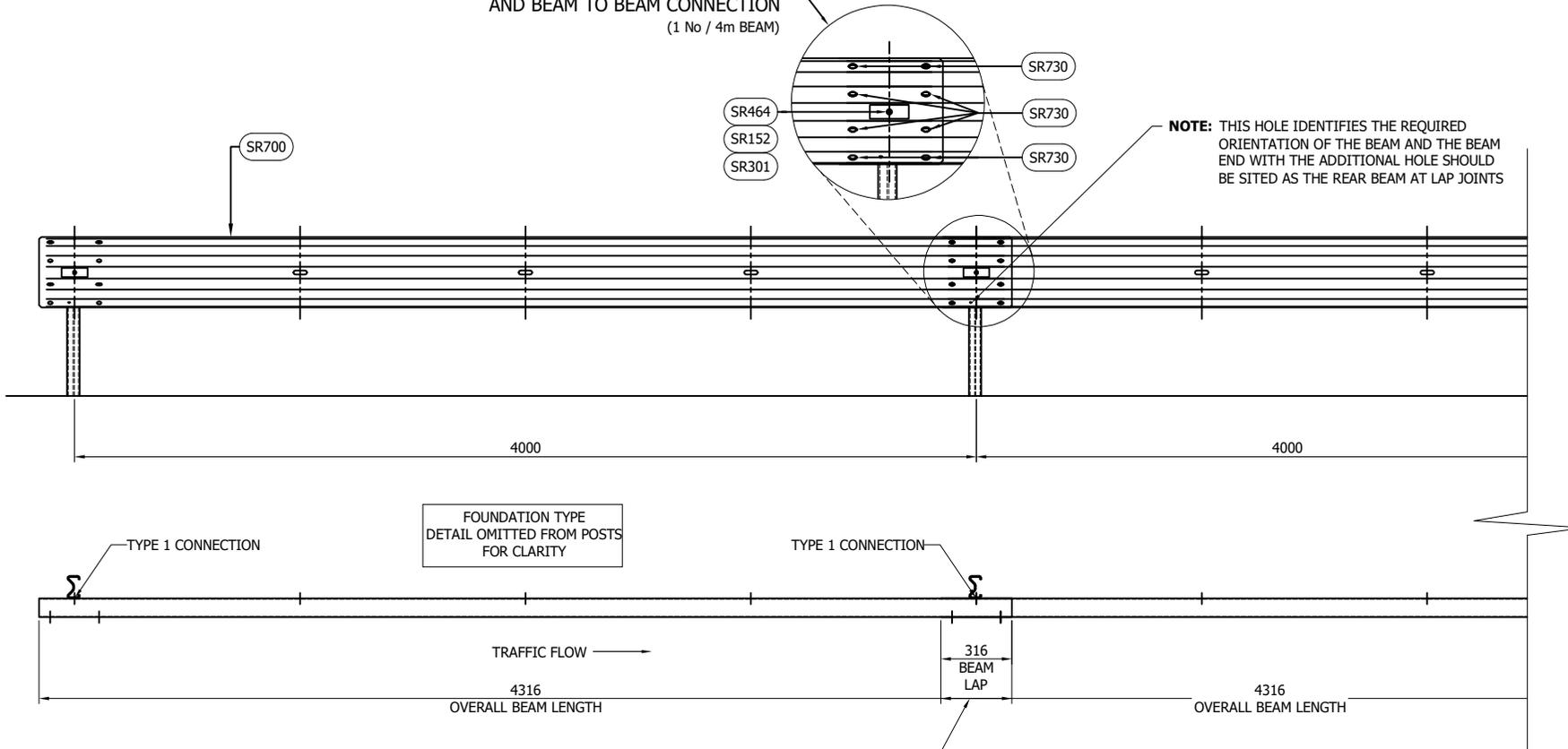
MegaRail VIK N2W5

COMPONENTS SCHEMATIC

SAFEROAD

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john.cudlipp@saferoad.co.uk

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

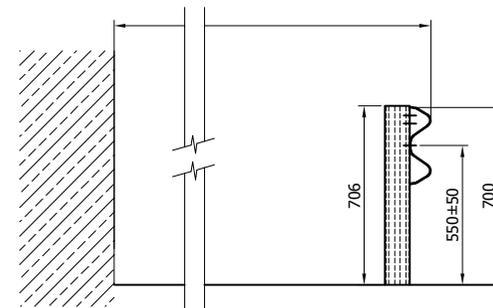


GENERAL NOTES:

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-N2W5-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 HEIGHT WITH REFERENCE TO SETBACK & KERB HEIGHTS
6. FOR MINIMUM LENGTH OF FULL HEIGHT VRS REFER TO SAFEROAD MEGARAIL MANUAL.
7. BEAMS HAVE SLOTS 1M APART RATHER THAN THE 1333MM SPACINGS OF OTHER MEGARAIL BEAMS
8. EXPANSION BEAMS TO BE USED WHEN THE SYSTEM PASSES OVER A MOVEMENT JOINT

FOUNDATION TYPE
DETAIL OMITTED FROM POSTS
FOR CLARITY

SEE MR-N2W5-GA-03 FOR
BEAM LAPPING DETAILS



MegaRail VIK N2W5

SYSTEM ASSEMBLY AND SETTING
OUT ARRANGEMENT SCHEMATIC



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SYSTEM COMPONENT SCHEDULE - QUANTITIES / 4m BEAM

SAFEROAD PART NUMBER	DESCRIPTION	QUANTITY
SR700	'A' PROFILE BEAM x 3MM	1
SEE TABLE B	SIGMA TYPE 'B' POST	1
FOR SCHEDULE OF BOLTED CONNECTIONS REFER TO DRAWING NUMBER MR-N2W5-GA-02		

TABLE 'B' - SCHEDULE OF POST REFERENCE NUMBERS AND LENGTHS

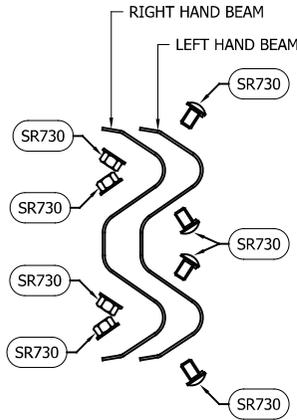
SAFEROAD PART NUMBER	POST LENGTH
SR613	2400
SR609	2100
SR711	1950
SR712	1100

REVn	DATE	DETAILS	INITIAL
03	13/11/24	BEAM POSITION UPDATE	H.B
02	11/10/24	DRAWING UPDATED	H.B
01	17/04/23	DRAWING UPDATED	H.B
00	18/08/20	DRAWING CREATED	H.B

DRAWING NUMBER:	MR-N2W5-GA-01	REVn:	03
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GENERAL NOTES:

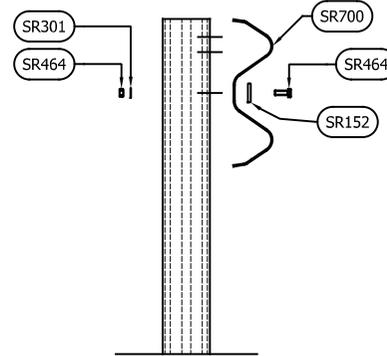
- NUMBERS IN THE SCHEDULES SUFFIXED (+) DENOTES THE ADDITIONAL QUANTITY OF COMPONENTS REQUIRED FOR EXTREME ENDS OF INDIVIDUAL RUNS OF BARRIER.



BEAM LAP FIXING SCHEMATIC
(x2 LOCATIONS / BEAM END)

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

BOLTING COMPONENT SCHEDULE - QUANTITIES P/BEAM		
SAFEROAD PART NUMBER	DESCRIPTION	BEAM LAP CONNECTION
SR730	SETSCREW 8.8 LIP M16x25 c/w FLANGE NUT	8 (+8)



BEAM TO POST
FIXING SCHEMATIC
(CONNECTION TYPE 1
AS PER GA-01)

BOLTING COMPONENT SCHEDULE - QUANTITIES P/POST		
SAFEROAD PART NUMBER	DESCRIPTION	TYPE 1 CONNECTION
SR464	M10x40 BOLT GRADE 4.6 c/w NUT	1
SR152	115x40x5 WASHER PLATE 12Ø HOLE	1
SR301	M10 WASHER 11Ø HOLE	1

REVn	DATE	DETAILS	INITIAL
02	13/11/24	BEAM POSITION UPDATE	H.B
01	11/10/24	DRAWING UPDATED	H.B
00	18/08/20	DRAWING CREATED	H.B

MegaRail VIK N2W5

FIXING AND INSTALLATION
SCHEMATIC

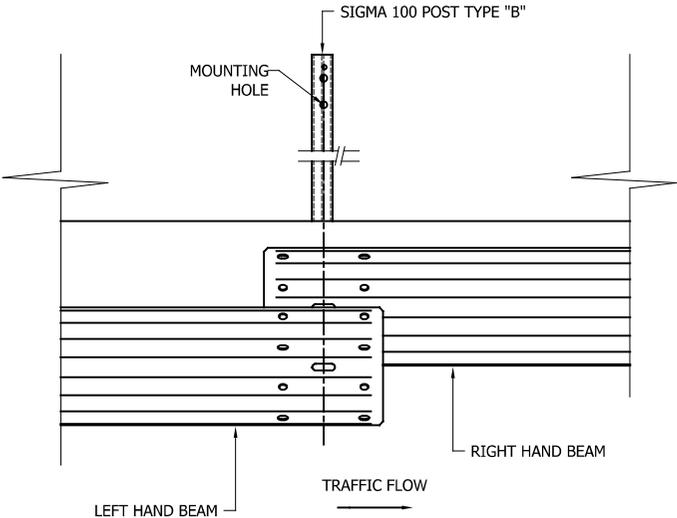


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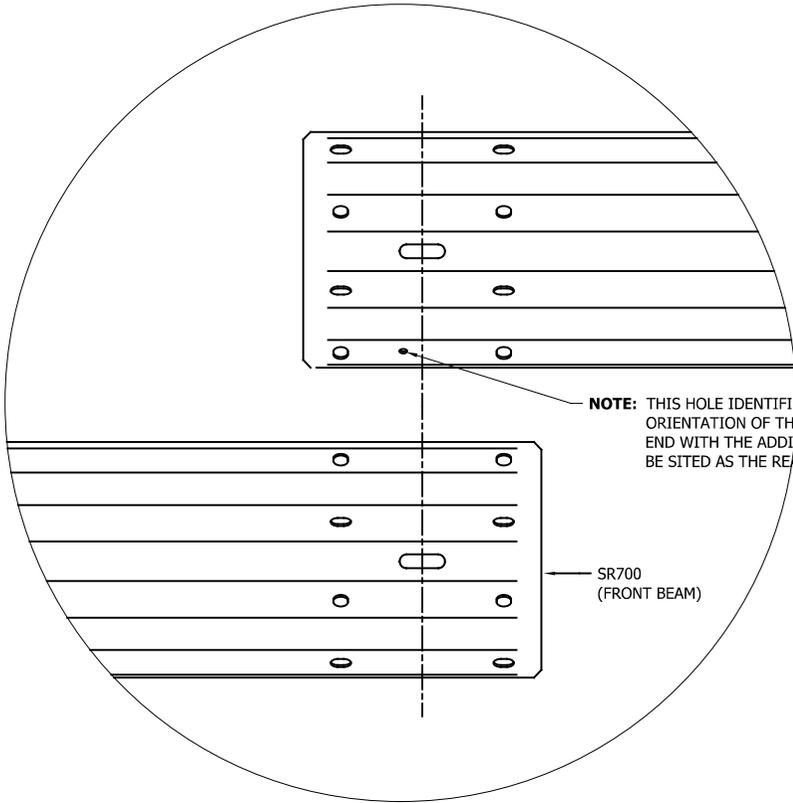
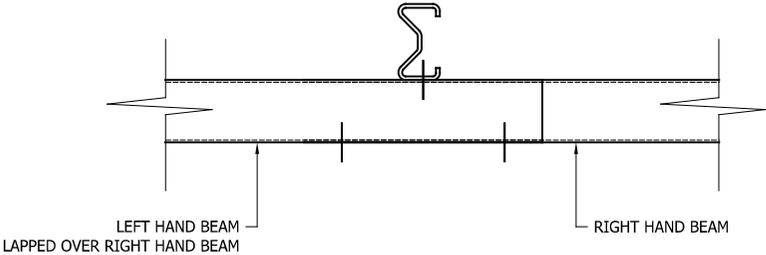
DRAWING NUMBER:	REVn:
MR-N2W5-GA-02	02

GENERAL NOTES:

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



FOUNDATION TYPE OMITTED FROM POSTS FOR CLARITY



REVn	DATE	DETAILS	INITIAL
02	13/11/24	MOUNTING HOLE SHOWN	H.B
01	11/10/24	DRAWING UPDATED	H.B
00	18/08/20	DRAWING CREATED	H.B

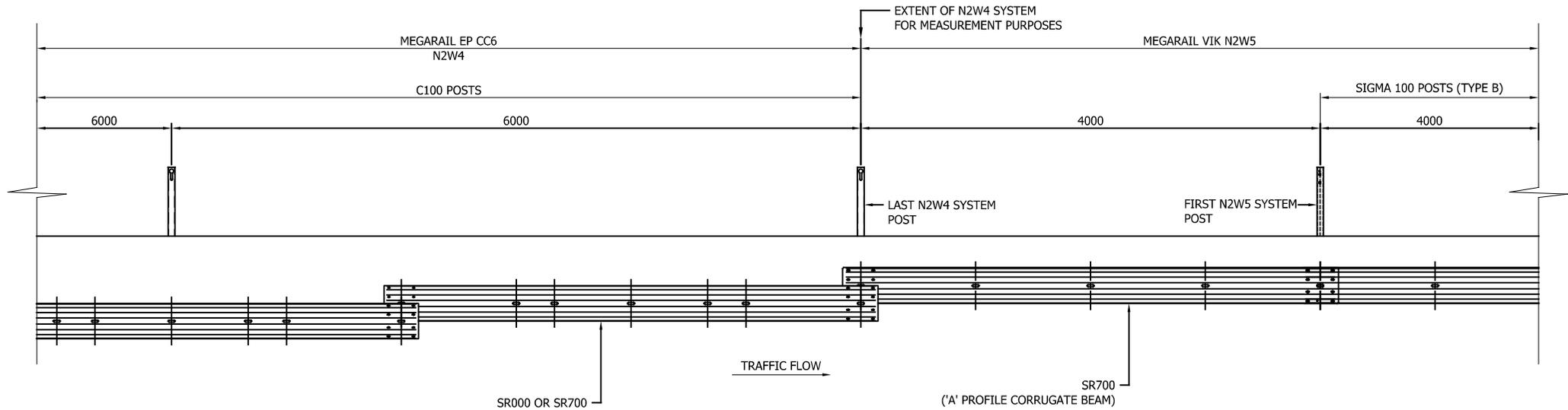
MegaRail VIK N2W5

BEAM LAPPING DETAILS



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 john.cudlipp@saferoad.co.uk

DRAWING NUMBER:	REVn:
MR-N2W5-GA-03	02



MEGARAIL VIK N2W5 MAY BE USED FOR SYSTEM PROGRESSION FROM TCB (TENSIONED CORRUGATE BEAM), WHERE IT IS POSSIBLE, PROGRESSION FROM TCB IS TO BE COMPLETED USING MEGARAIL EP CC6 (N2W4 @ 6M CENTRES), HOWEVER IF 6M POST CENTRES ARE NOT VIABLE, VIK N2W5 MAY BE USED FOR 4M OF PROGRESSION ONLY

MegaRail VIK N2W5

SYSTEM PROGRESSION DETAILS



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GENERAL NOTES:

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

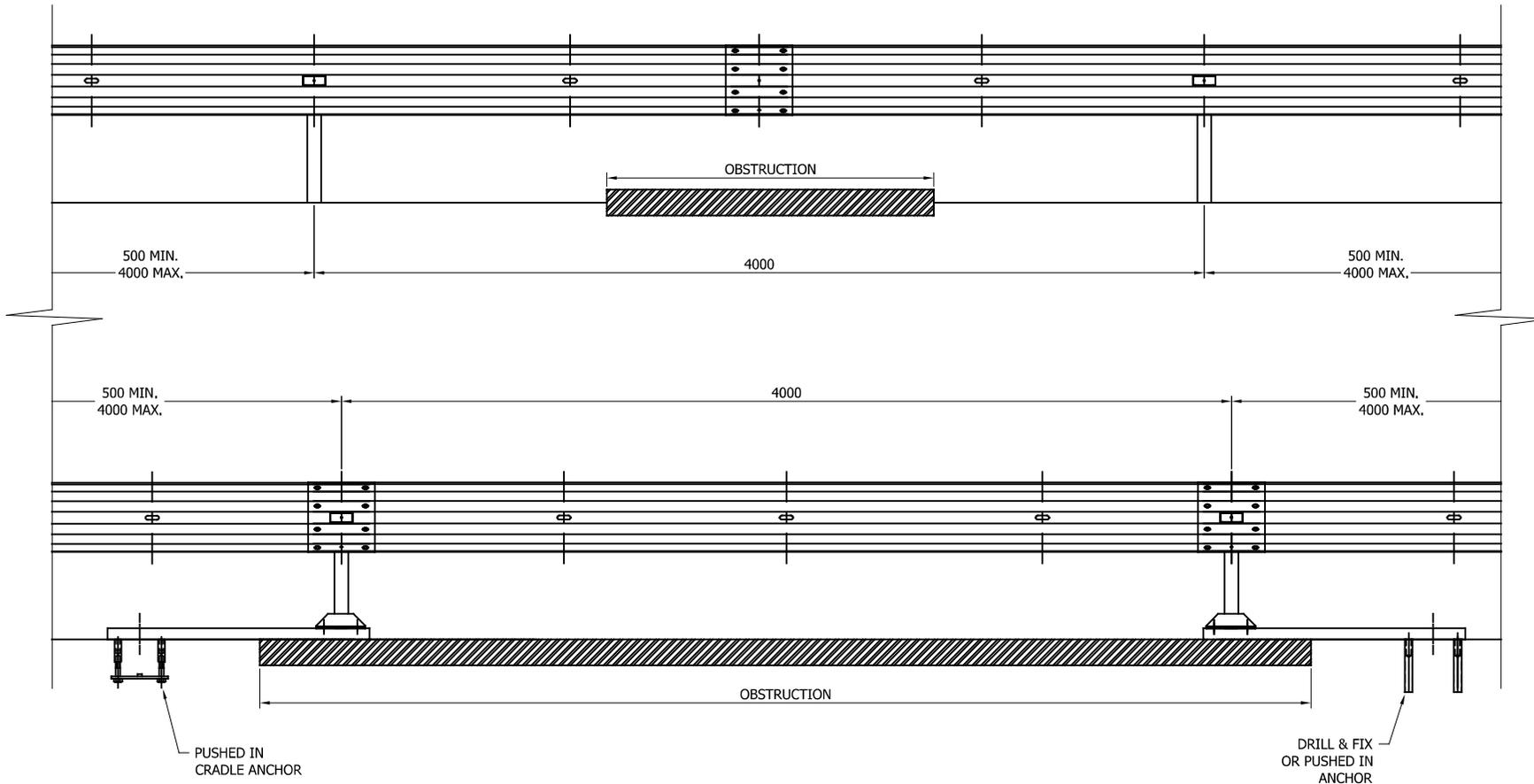
** BEAM REFERENCES i.e. LEFT / RIGHT HAND ARE FOR VERGE INSTALLATIONS; FOR CENTRAL RESERVATION INSTALLATIONS THE REFERENCES ARE REVERSED

01	11/10/24	DRAWING UPDATED	H.B
00	18/08/20	DRAWING CREATED	H.B
REVn	DATE	DETAILS	INITIAL

DRAWING NUMBER:	REVn:
MR-N2W5-GA-20	01

GENERAL NOTES:

1. IN PRINCIPLE, THE DISTANCE BETWEEN THE POSTS ARE NOT EXCEEDED. IF THE SITE CONDITIONS DO NOT ALLOW A REGULAR DISTANCE, THE POST SPACING MUST BE REDUCED WITH AN ADDITIONAL POST, TO AN ABSOLUTE MINIMUM OF 500MM.
2. 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.
3. WHEN DEVIATIONS HAVE BEEN USED, RETURN TO SYSTEM SETTING OUT AS DETAILED IN GA-01 AS SOON AS REASONABLY POSSIBLE
4. OFFSET POSTS SHOWN ON DRAWING MR-N2W5-GA-00 CAN BE USED.



REVn	DATE	DETAILS	INITIAL
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00	18/08/20	DRAWING CREATED	H.B

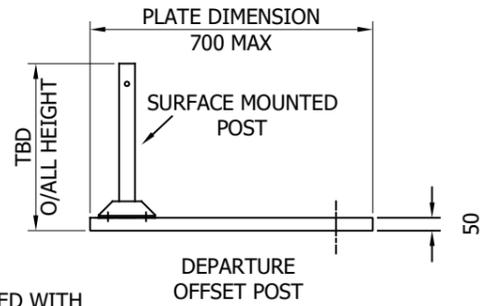
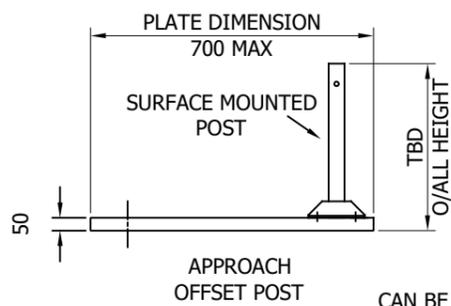
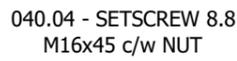
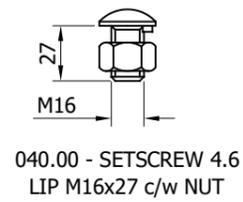
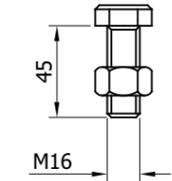
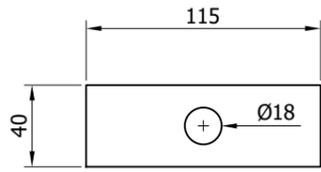
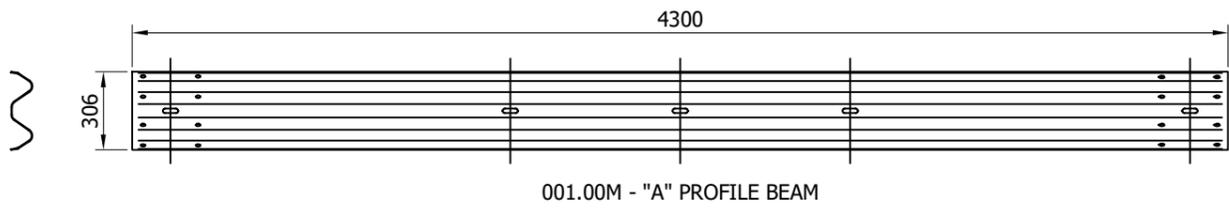
MegaRail VIK N2W5

DETAILS OF PERMISSIBLE
DEVIATIONS FOR POST POSITIONS

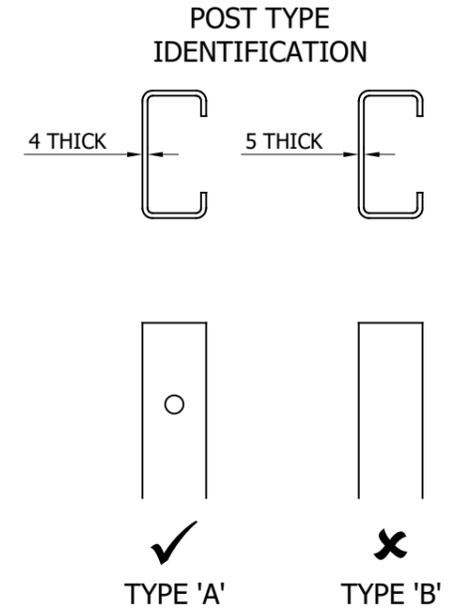
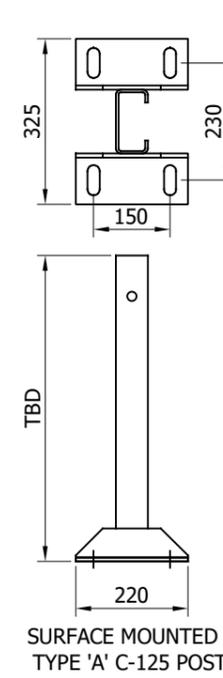
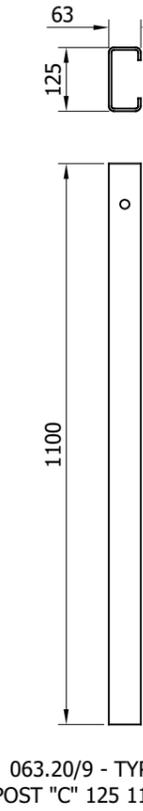
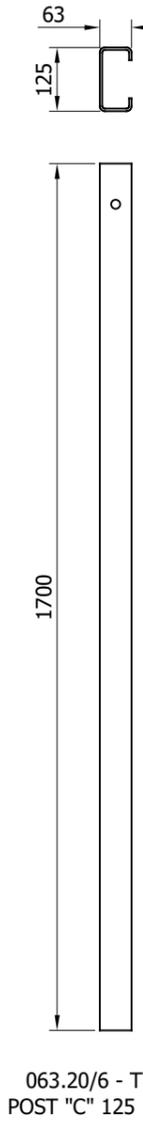
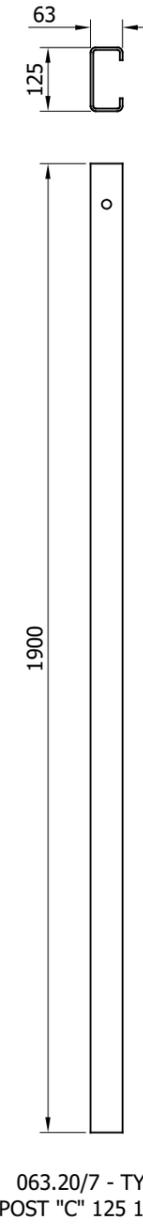
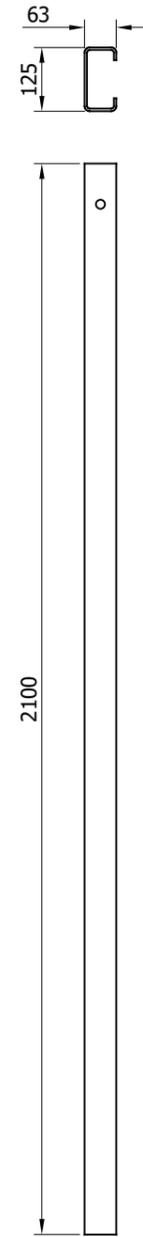
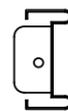
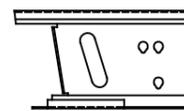
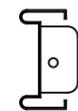
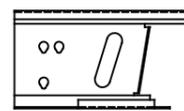
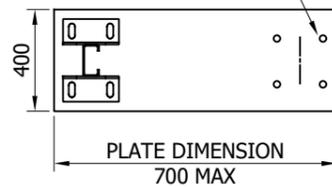
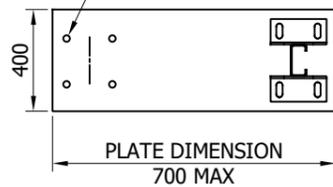


CONCORD HOUSE,
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t: 01724 289119
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:	REVn:
MR-N2W5-GA-40	01



CAN BE FIXED WITH
CAST IN ANCHORS, DRILL
AND FIX ANCHORS OR
PUSHED IN ANCHORS
AT 180x180 CENTERS



REVn	DATE	DETAILS	INITIAL
2.5	31.05.22	OFFSET PLATE DETAIL CHANGED	A.D
2.4	25.05.22	SURFACE MOUNTED POST BASE CHANGED	A.D
2.3	20.05.15	DETAILS REVISED	M.T

MegaRail sl

H1 A W4 / N2 A W4

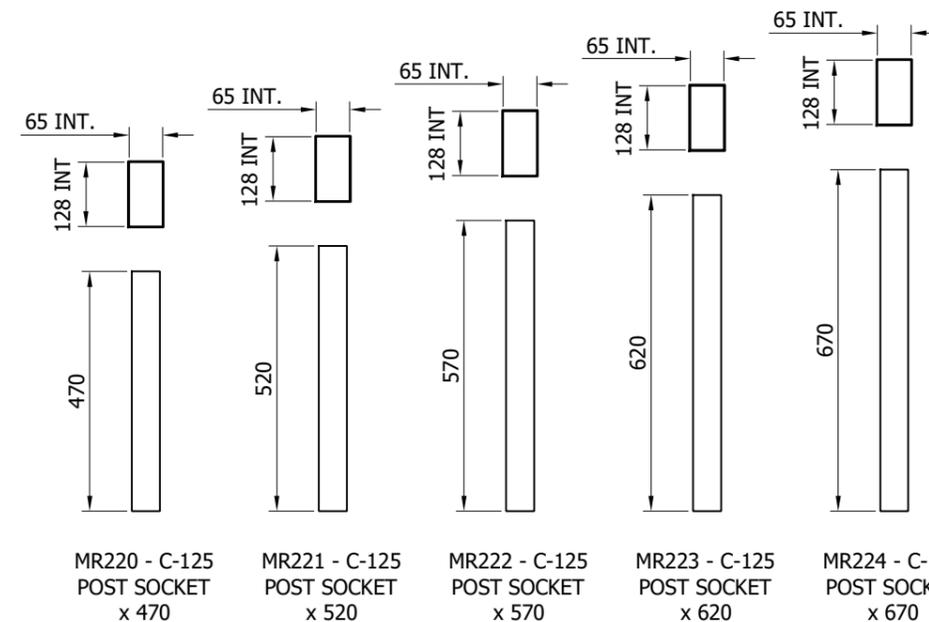
H1.W4 AND N2.W4 (DUAL
CLASSIFICATION) ROAD RESTRAINT
SYSTEM COMPONENTS SCHEMATIC

SAFEROAD®

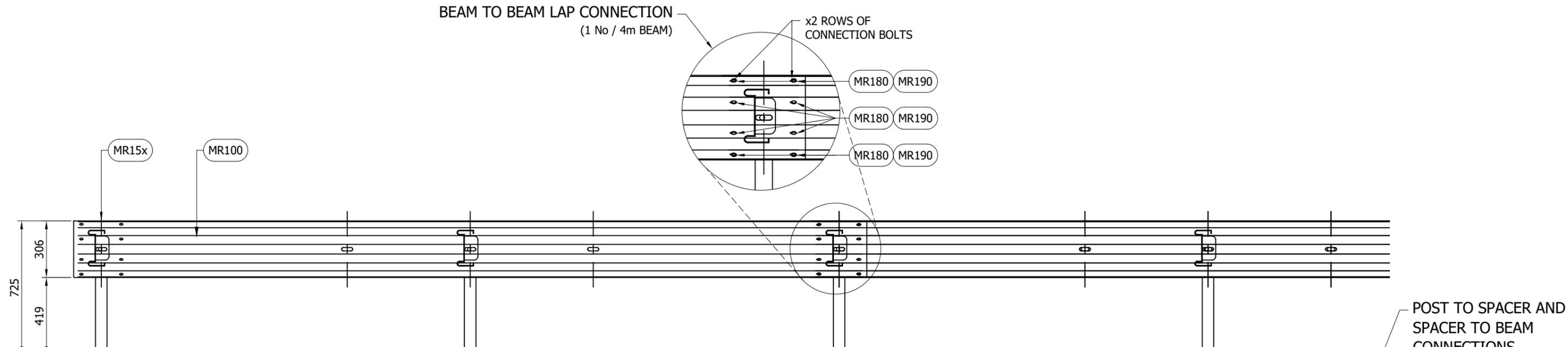
CONCORD HOUSE,
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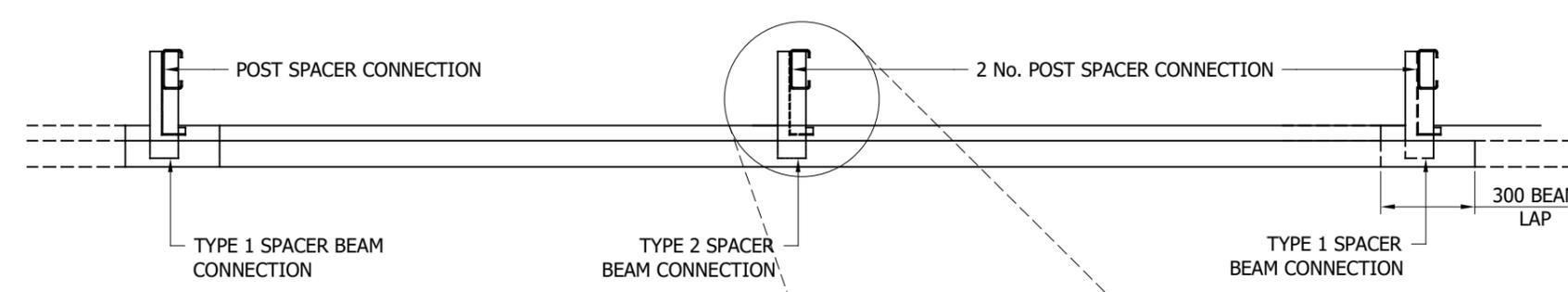
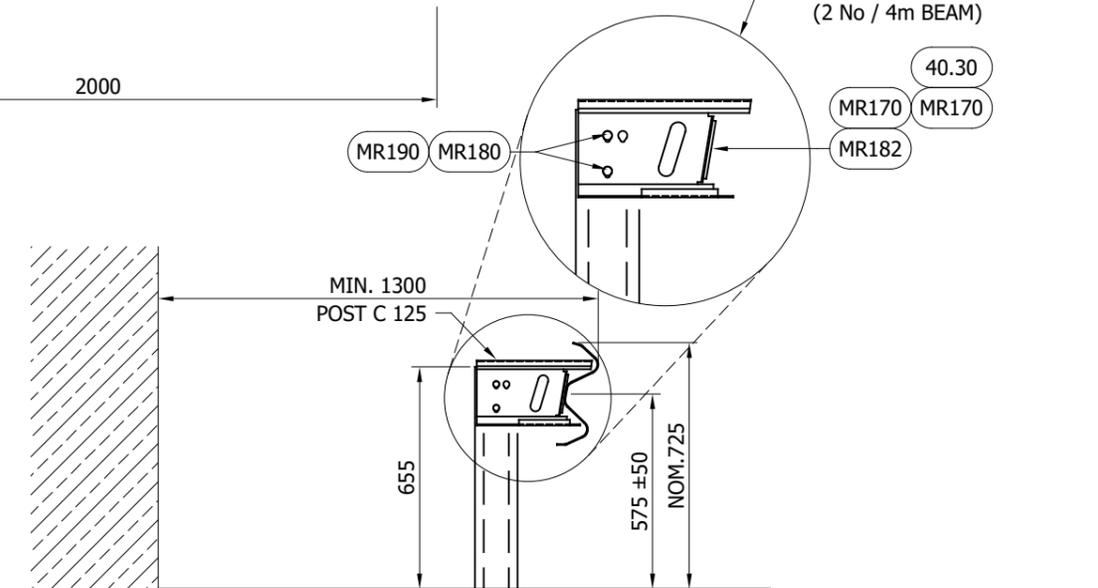
DRAWING NUMBER:
H1/N2W4-GA-00 v2.5



BEAM TO BEAM LAP CONNECTION
(1 No / 4m BEAM)



POST TO SPACER AND SPACER TO BEAM CONNECTIONS
(2 No / 4m BEAM)



TRAFFIC FLOW →

- 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 SECTION 8 OF SAFEROAD MEGARAIL MANUAL, DEVIATION CHART.
 4. WHEN TYING INTO ADJACENT VRS ONLY ONE WORKING WIDTH DIFFERENCE IS PERMITTED.
 5. WHERE A KERB IS PRESENT THE MAXIMUM KERB HEIGHT IS 125mm.
 6. FOR MINIMUM LENGTH OF FULL HEIGHT VRS REFER TO SAFEROAD MEGARAIL MANUAL.

MegaRail sl
H1 A W4 / N2 A W4

H1.W4 AND N2.W4 (DUAL CLASSIFICATION) ROAD RESTRAINT ASSEMBLY & SETTING OUT ARRANGEMENT

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DRAWING NUMBER:
H1/N2W4-GA-01 v2.4

TABLE 'A' - SYSTEM COMPONENT SCHEDULE - QUANTITIES / 4m BEAM

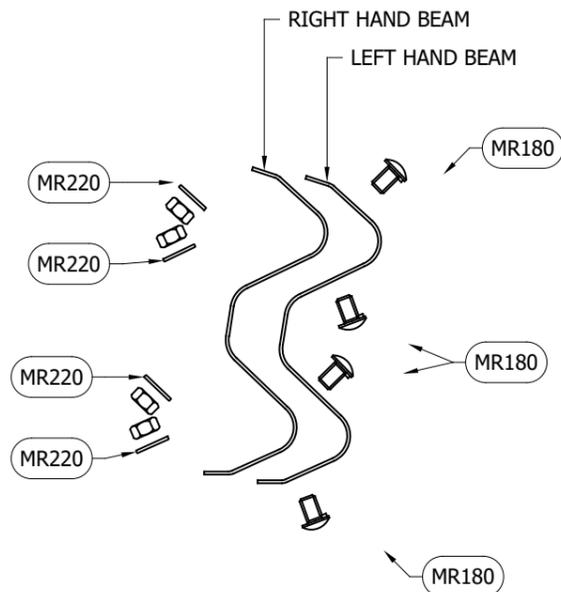
OUTIMEX MANUFACTURING REFERENCE	SAFEROAD UK PART NUMBER	DESCRIPTION	QUANTITY
001.00M	MR001	BEAM "A" PROFILE	1
063.20/x	SEE TABLE 'B'	POST "C" 125	2
either 005.70M	MR087	BRACKET SINGLE SPACER LEFT 340mm	2
or 005.71M	MR088	BRACKET SINGLE SPACER RIGHT 340mm	2

FOR SCHEDULE OF BOLTED CONNECTIONS REFER TO DRAWING NUMBER MR-GA-W4HN-02

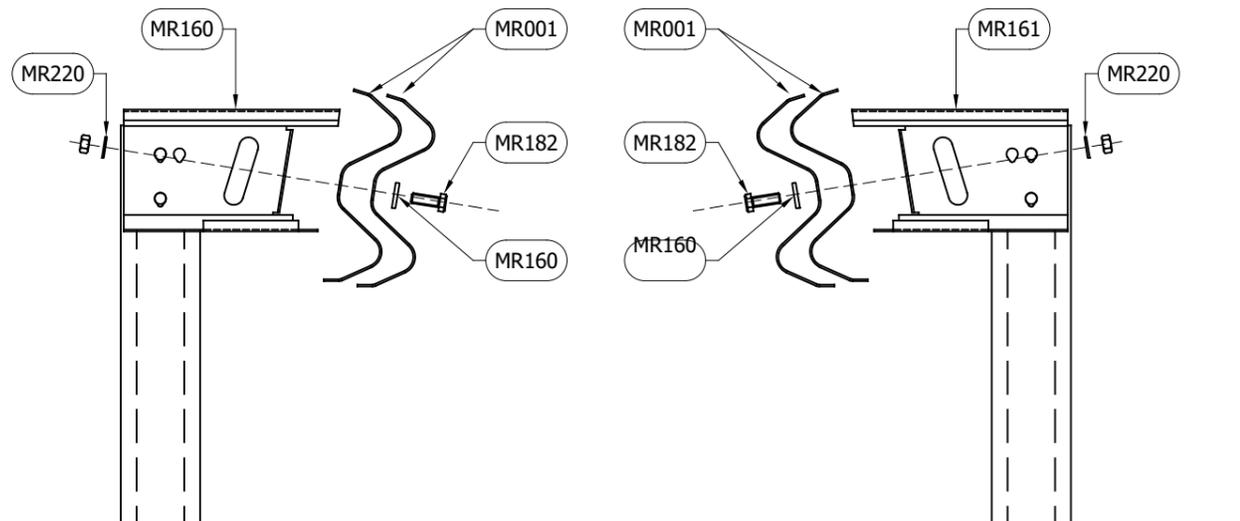
TABLE 'B' - SCHEDULE OF POST REFERENCE NUMBERS AND LENGTHS

OUTIMEX MANUFACTURING REF.	SAFEROAD UK PART NUMBER	POST LENGTH
063.20/9	MR080	1100
063.20/6	MR082	1700
063.20/7	MR084	1900
063.20/8	MR086	2100

REVn	DATE	DETAILS	INITIAL
2.4	25.05.22	E-MAIL ADDRESS CHANGED	A.D
2.3	20.05.15	DETAILS REVISED	M.T



BEAM TO BEAM CONNECTION ARRANGEMENT
(x2 LOCATIONS / BEAM END)



SPACER TO BEAM CONNECTION TYPE 1 [VERGE]

SPACER TO BEAM CONNECTION TYPE 1 [CENTRAL RESERVE]

GENERAL NOTES:

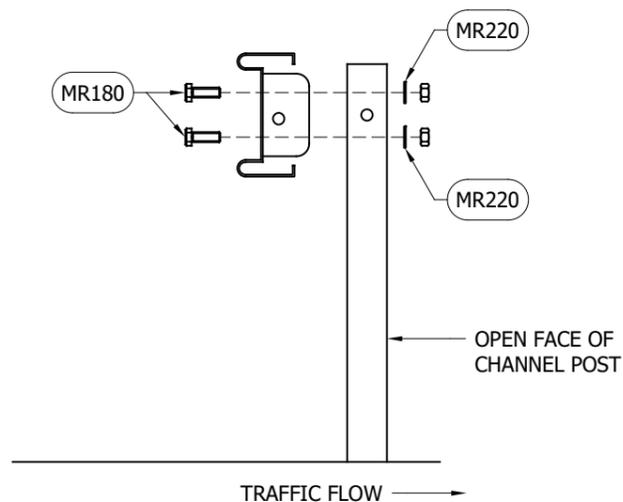
1. NUMBERS IN THE SCHEDULES SUFFIXED (+) DENOTES THE ADDITIONAL QUANTITY OF COMPONENTS REQUIRED FOR EXTREME ENDS OF INDIVIDUAL RUNS OF BARRIER.
2. VERGE AND CENTRAL RESERVE BRACKET SPACERS ARE HANDED AND **NOT** INTERCHANGEABLE.

BOLTING COMPONENT SCHEDULE - QUANTITIES / BEAM			
OUTIMEX MANUFACTURING REFERENCE	SAFEROAD UK PART NUMBER	DESCRIPTION	BEAM TO BEAM CONNECTION
040.00	MR180	SETSCREW 4.6 LIP M16x27 c/w NUT	8 (+8)
040.30	MR220	WASHER M16 18Ø HOLE	8 (+8)

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

BOLTING COMPONENT SCHEDULE - QUANTITIES / POST			
OUTIMEX MANUFACTURING REFERENCE	SAFEROAD UK PART NUMBER	DESCRIPTION	TYPE 1 CONNECTION
040.00	MR180	SETSCREW 4.6 LIP M16 x 27 c/w NUT	2
040.04	MR182	SETSCREW 8.8 M16x45 c/w NUT	1
010.40	MR160	WASHER PLATE 115 x 40 x 6 DIA. 18	2
040.30	MR220	WASHER M16 18Ø HOLE	3
QUANTITY OF CONNECTION TYPES / 4m BEAM			2 (+1)

REVn	DATE	DETAILS	INITIAL
2.4	25.05.22	E-MAIL ADDRESS CHANGED	A.D
2.3	20.05.15	DETAILS REVISED	M.T



SPACER BEAM TO POST CONNECTION TYPE 1

MegaRail sl
H1 A W4 / N2 A W4

H1.W4 AND N2.W4 (DUAL CLASSIFICATION) ROAD RESTRAINT SYSTEM BOLTING ARRANGEMENTS

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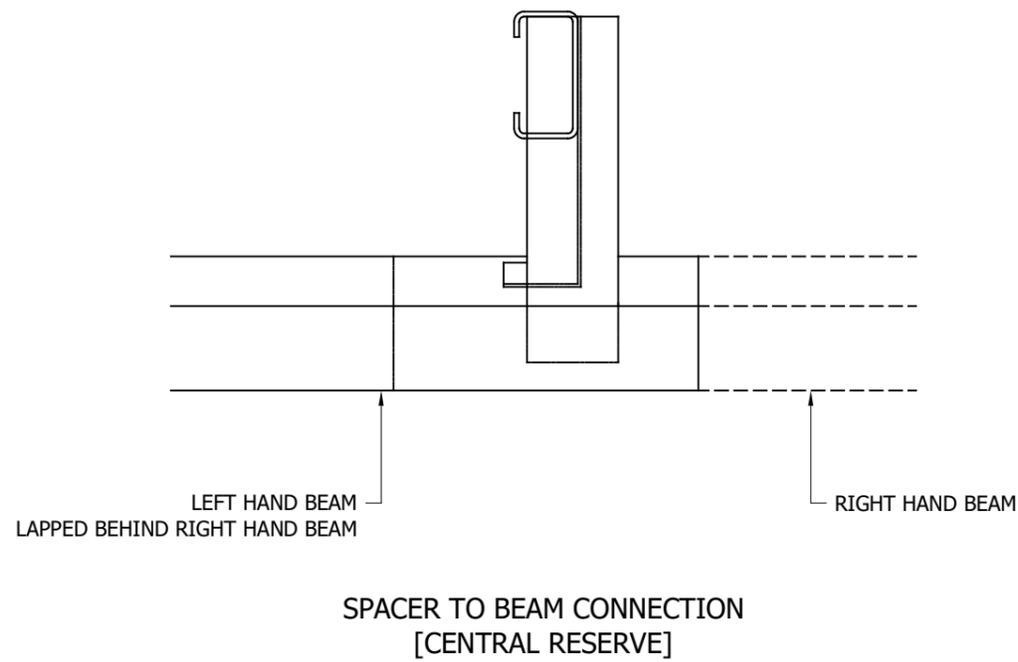
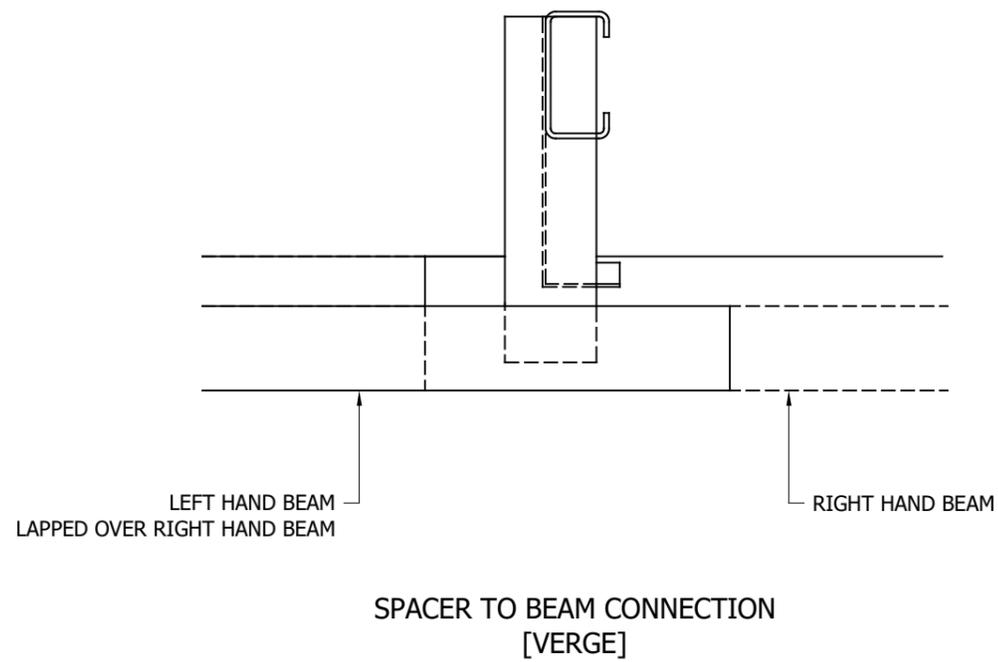
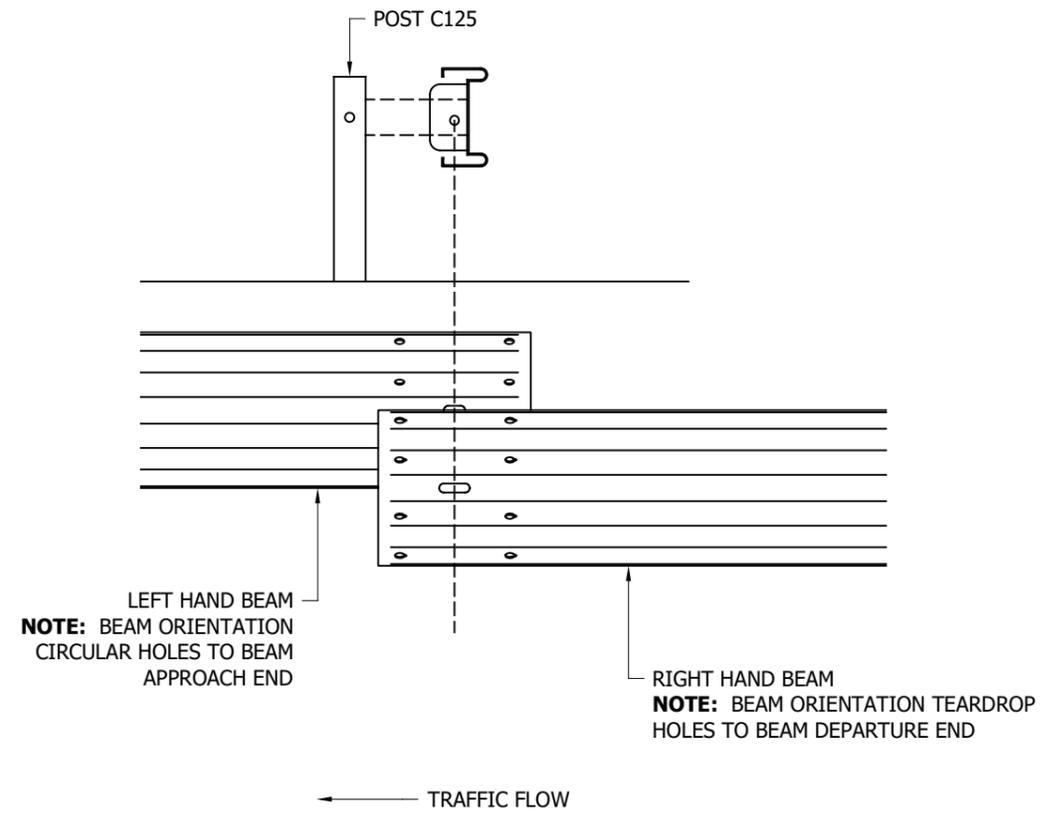
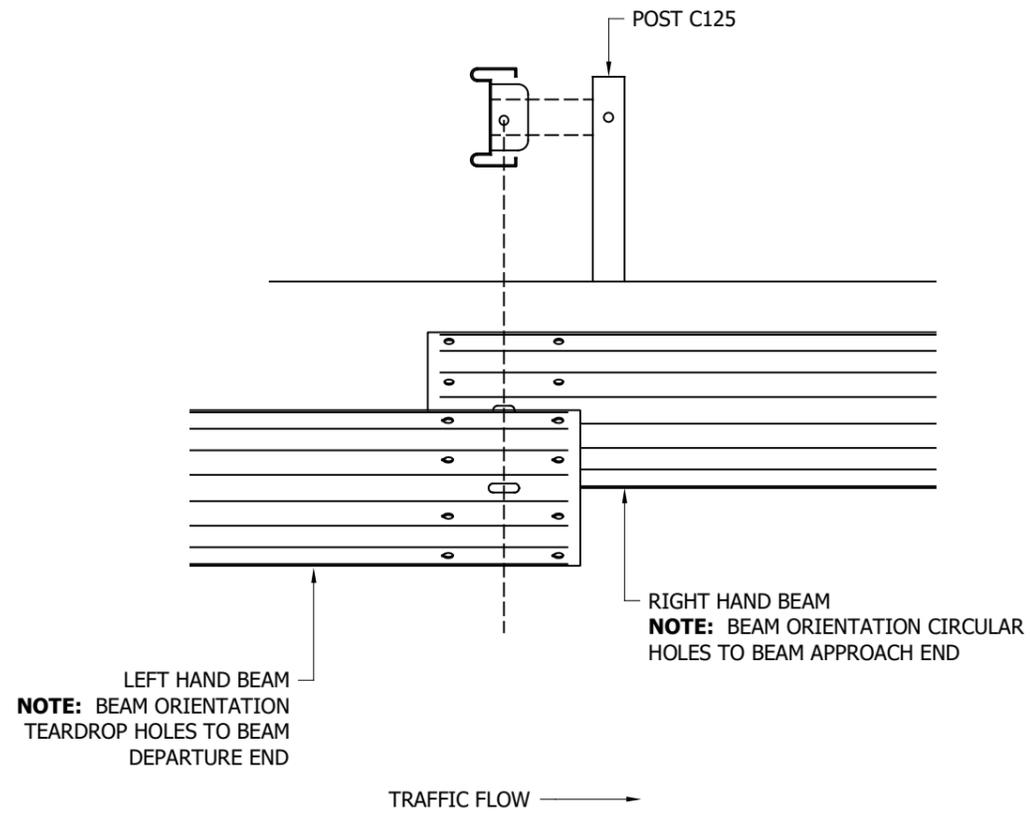
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

H1/N2W4-GA-02 v2.4

GENERAL NOTES:

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



REVn	DATE	DETAILS	INITIAL
2.5	25.05.22	E-MAIL ADDRESS CHANGED	A.D
2.4	20.05.15	DETAILS REVISED	M.T

MegaRail sl H1 A W4 / N2 A W4

H1.W4 AND N2.W4 (DUAL CLASSIFICATION) ROAD RESTRAINT BEAM LAPPING DETAIL FOR W4 MEGARAIL SYSTEM

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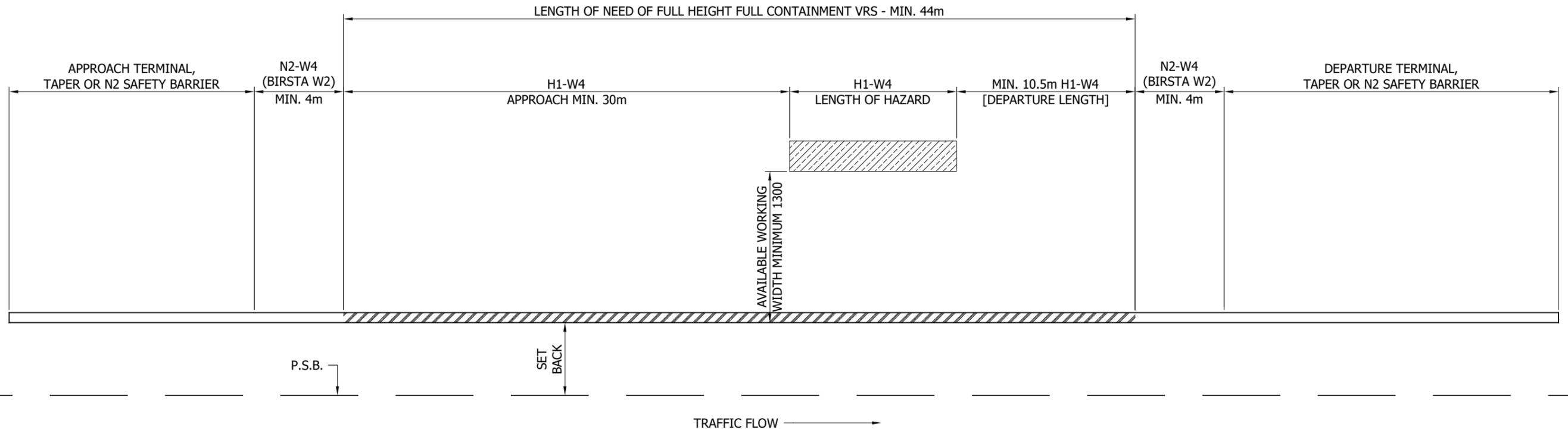
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

H1/N2W4-GA-03 v2.5

GENERAL NOTES:

1. P.S.B. = POINT FROM WHERE SET-BACK IS MEASURED.
2. POSTS ARE TO BE INSTALLED WITH THE CLOSED FACE OF THE CHANNEL TOWARDS THE ON-COMING TRAFFIC.
3. MINIMUM LENGTH OF FULL HEIGHT VRS IS 44m



2.5	25.05.22	E-MAIL ADDRESS CHANGED	A.D
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MegaRail sl H1 A W4 / N2 A W4

H1.W4 AND N2.W4 (DUAL CLASSIFICATION) ROAD RESTRAINT SYSTEM COMPONENTS SCHEMATIC

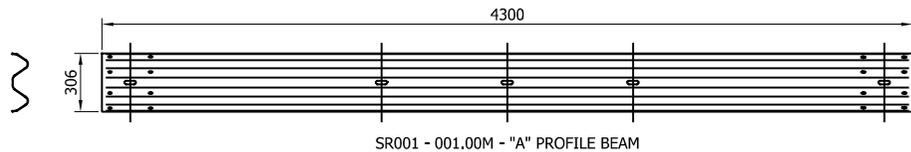
SAFEROAD®

CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
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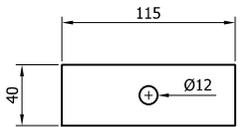
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

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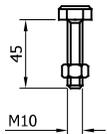
H1/N2W4-GA-10 v2.5



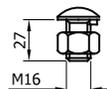
SR001 - 001.00M - "A" PROFILE BEAM



SR152 - T_010.10 -
WASHER PLATE 115 x 40 x 5
DIA.12



SR124 - 040.54 -
SETSCREW 8.8
M10x45 c/w NUT



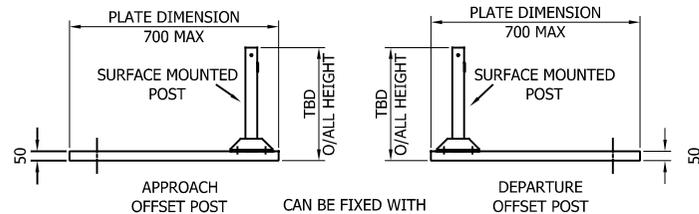
SR200 - 040.00 -
SETSCREW 4.6 LIP
M16x27 c/w NUT



SR301 - 040.60 -
M10 WASHER 11φ HOLE



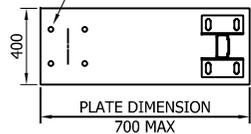
SR300 - 040.30 -
M16 WASHER 18φ HOLE



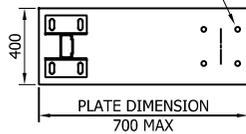
APPROACH
OFFSET POST

CAN BE FIXED WITH
CAST IN ANCHORS, DRILL
AND FIX ANCHORS OR
PUSHED IN ANCHORS
AT 180x180 CENTERS

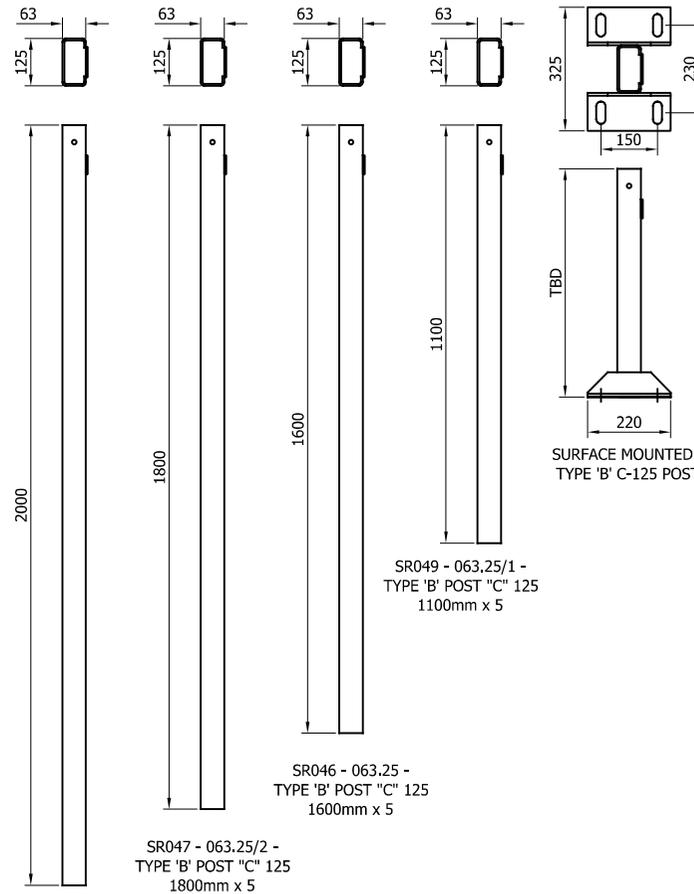
DEPARTURE
OFFSET POST



BASEPLATE DRILL &
TAPPED FOR LIFTING EYE



SR100 - NP001 -
A21
REINFORCING
RING



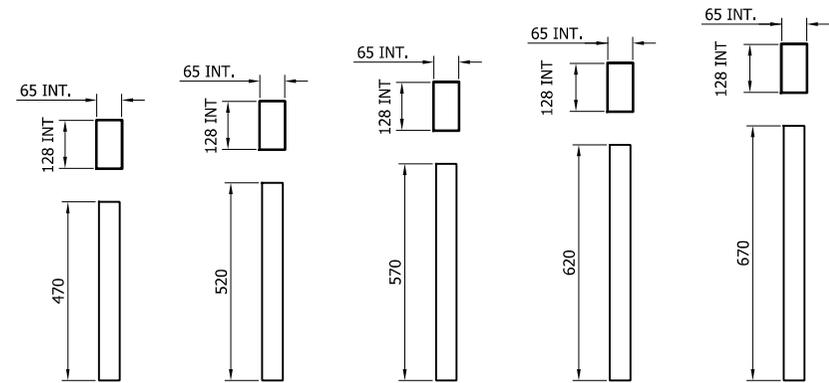
SR049 - 063.25/1 -
TYPE 'B' POST "C" 125
1100mm x 5

SR046 - 063.25 -
TYPE 'B' POST "C" 125
1600mm x 5

SR047 - 063.25/2 -
TYPE 'B' POST "C" 125
1800mm x 5

SR048 - 063.25/3 -
TYPE 'B' POST "C" 125
2000mm x 5

SURFACE MOUNTED -
TYPE 'B' C-125 POST



SR080 - C-125
POST SOCKET
x 470

SR081 - C-125
POST SOCKET
x 520

SR083 - C-125
POST SOCKET
x 570

C-125 POST
SOCKET
x 620

C-125 POST
SOCKET
x 670

REV#	DATE	DETAILS	INITIAL
1.5	12/01/23	BOLT GRADE AMENDMENT	H,B
1.4	31.05.22	OFFSET PLATE DETAIL CHANGED	A,D
1.3	25.05.22	SURFACE MOUNTED POST BASE CHANGED	A,D
1.2	03.06.15	POST HEIGHTS REVISED	M,T
1.1	20.05.15	DETAILS REVISED	M,T

MegaRail ec4.4 H2 A W4

H2.W4 ROAD RESTRAINT SYSTEM
COMPONENTS SCHEMATIC

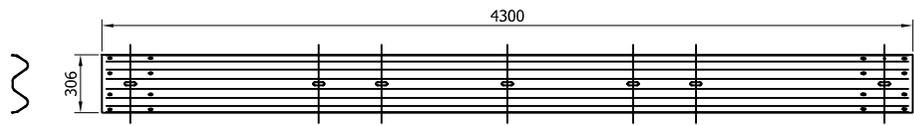
SAFEROAD®

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NORTH LINCOLNSHIRE, DN15 8XE
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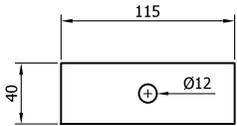
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

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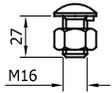
H2W4-GA-00 v1.5



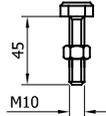
SR022 - BEAM
2.4MM BEAM ONLY - HAS ID HOLES AT TEAR DROP ENDS OF BEAM



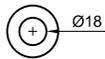
SR152 - WASHER PLATE 115 x 40 x 5 DIA.12



SR200 - SETSCREW 4.6 LIP M16x27 c/w NUT



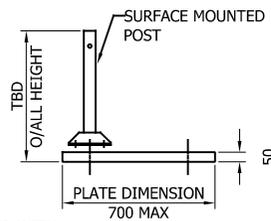
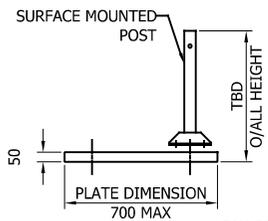
SR124 - SETSCREW M10x45 c/w NUT



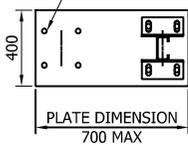
SR300 - M16 WASHER 18Ø HOLE



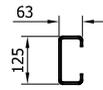
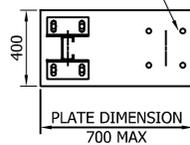
SR301 - M10 WASHER 11Ø HOLE



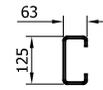
CAN BE FIXED WITH CAST IN ANCHORS, DRILL AND FIX ANCHORS OR PUSHED IN ANCHORS AT 180x180 CENTERS



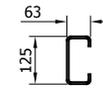
BASEPLATE DRILL & TAPPED FOR LIFTING EYE



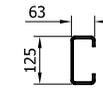
SR040 - TYPE 'A' POST "C" 125 2400mm



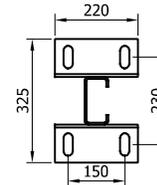
SR035 - TYPE 'A' POST "C" 125 2000mm



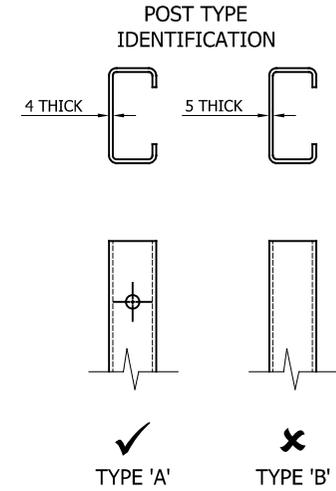
SR036 - TYPE 'A' POST "C" 125 1800mm



SR034 - TYPE 'A' POST "C" 125 1100mm



SURFACE MOUNTED - TYPE 'A' C-125 POST



REV#	DATE	DETAILS	INITIAL
07	21/05/24	BEAM SLOT DETAILS UPDATED	H,B
06	13/05/22	SURFACE MOUNTED POST BASE CHANGED	A,D
05	27/05/21	DETAILS REVISED	M,T
04	12/02/19	TITLEBLOCK REVISED	H,B
03	10/03/17	DETAILS REVISED	L,L
02	01/02/17	DETAILS REVISED	L,L
1.2	20/05/15	DETAILS REVISED	M,T

MegaRail em H1 W4 (VI 4)

H1.W4 VEHICLE RESTRAINT SYSTEM COMPONENTS SCHEMATIC



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DRAWING NUMBER:

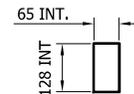
H1W4-GA-00

REV#:

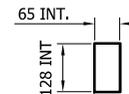
07



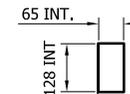
SR100 - A21 REINFORCING RING



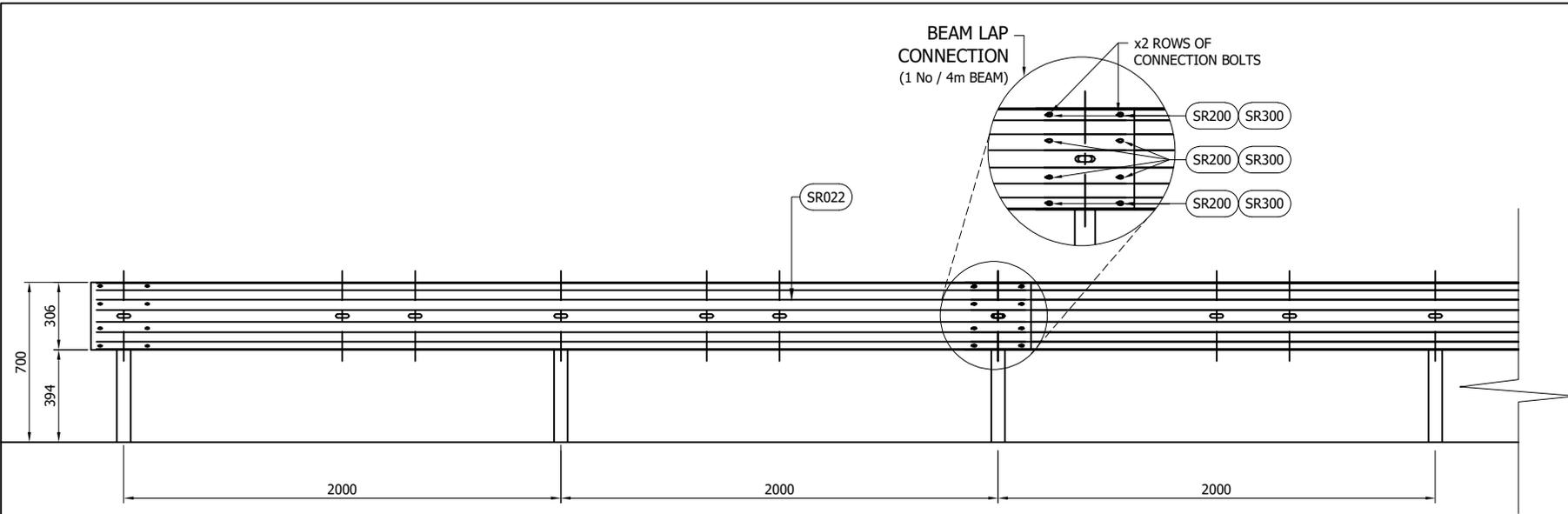
SR080 - C-125 POST SOCKET x 470



SR081 - C-125 POST SOCKET x 520



SR083 - C-125 POST SOCKET x 570



- 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 H1W4-GA-40
 4. WHEN TYING INTO ADJACENT VRS ONLY ONE WORKING WIDTH DIFFERENCE IS PERMITTED. SEE SYSTEM PROGRESSION DETAILS
 5. SEE MR-GA-001 & MR-GA-003 FOR DETAILS OF SYSTEM HEIGHT WITH REFERENCE TO SETBACK & KERB HEIGHTS.
 6. FOR MINIMUM LENGTH OF FULL HEIGHT VRS REFER TO SAFEROAD MEGARAIL MANUAL.

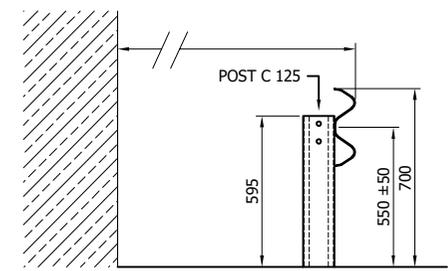
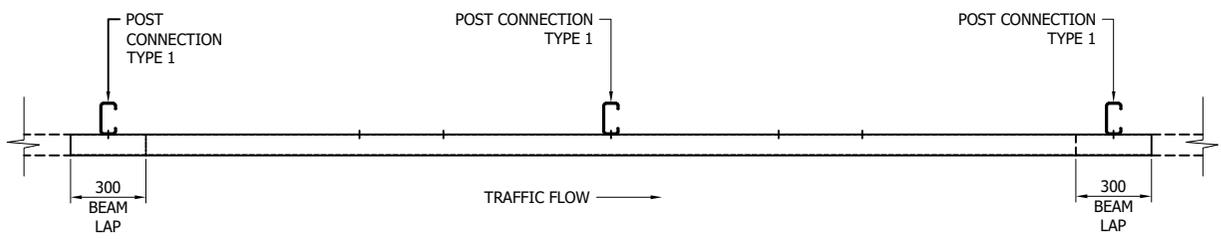


TABLE 'A' - SYSTEM COMPONENT SCHEDULE - QUANTITIES / 4m BEAM

SAFEROAD UK PART NUMBER	DESCRIPTION	QUANTITY
SR022	BEAM "A" PROFILE	1
SEE TABLE 'B'	POST "C" 125	2
FOR SCHEDULE OF BOLTED CONNECTIONS REFER TO DRAWING NUMBER H1W4-GA-02		

TABLE 'B' - SCHEDULE OF POST REFERENCE NUMBERS AND LENGTHS

SAFEROAD UK PART NUMBER	POST LENGTH
SR034	1100
SR035	1800
SR036	2000
SR040	2400

REVn	DATE	DETAILS	INITIAL
05	21/05/24	BEAM SLOT DETAILS UPDATED	H.B
04	12/02/19	TITLEBLOCK REVISED	H.B
03	12/02/17	DETAILS REVISED	L.L
02	01/02/17	DETAILS REVISED	L.L
1.2	20/05/15	DETAILS REVISED	M.T

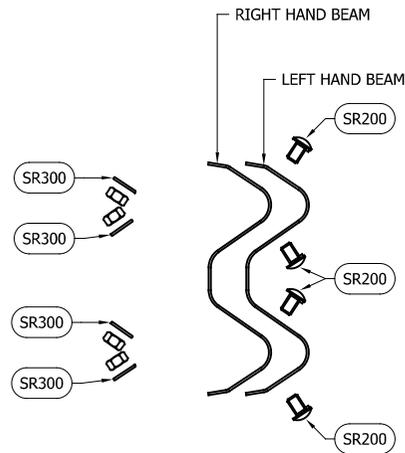
**MegaRail em
H1 W4 (VI 4)**
H1.W4 VEHICLE RESTRAINT SYSTEM
ASSEMBLY AND SETTING OUT
ARRANGEMENT

SAFEROAD
CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119
e: john.cudlipp@saferoad.co.uk

DRAWING NUMBER: **H1W4-GA-01** REVn: **05**

GENERAL NOTES:

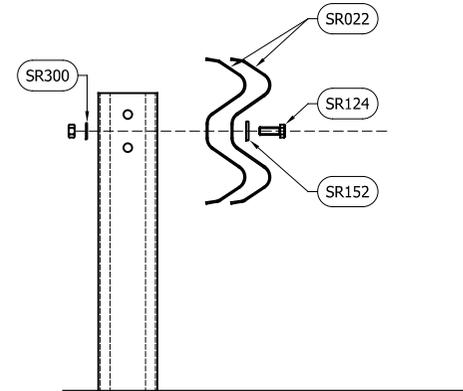
1. NUMBERS IN THE SCHEDULES SUFFIXED (+) DENOTES THE ADDITIONAL QUANTITY OF COMPONENTS REQUIRED FOR EXTREME ENDS OF INDIVIDUAL RUNS OF BARRIER.



BEAM TO BEAM CONNECTION
ARRANGEMENT
(x2 LOCATIONS / BEAM END)

BOLTING COMPONENT SCHEDULE - QUANTITIES / BEAM		
SAFEROAD UK PART NUMBER	DESCRIPTION	BEAM TO BEAM CONNECTION
SR200	SETSCREW 4.6 LIP M16x27 c/w NUT	8 (+8)
SR300	WASHER M16 18 ϕ HOLE	8 (+8)

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



BEAM TO POST
CONNECTION TYPE 1

BOLTING COMPONENT SCHEDULE - QUANTITIES / POST		
SAFEROAD UK PART NUMBER	DESCRIPTION	TYPE 1 CONNECTION
SR124	SETSCREW 8.8 M10 x 45 c/w NUT	2
SR152	WASHER PLATE 115 x 40 x 5 DIA. 12	2
SR301	WASHER M10 12 ϕ HOLE	2

REVn	DATE	DETAILS	INITIAL
04	21/05/24	DRAWING UPDATED	H.B
03	12/02/19	TITLEBLOCK REVISED	H.B
02	01/02/17	DETAILS REVISED	L.L
1.2	20/05/15	DETAILS REVISED	M.T

MegaRail em H1 W4 (VI 4)

H1.W4 VEHICLE RESTRAINT SYSTEM
BOLTING ARRANGEMENTS

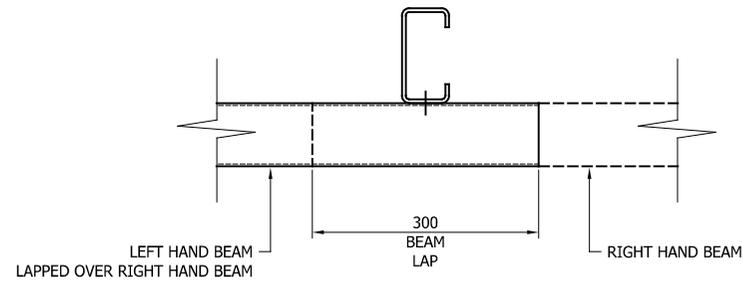
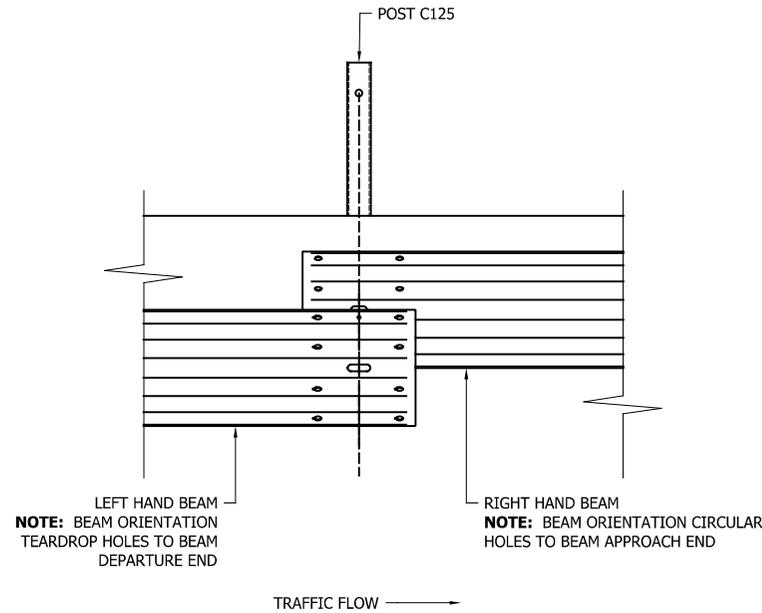


CONCORD HOUSE,
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NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119
e: john.cudlipp@saferoad.co.uk

DRAWING NUMBER:	REVn:
H1W4-GA-02	04

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

05	21/05/24	DRAWING UPDATED	H.B
04	12/02/19	TITLEBLOCK REVISED	H.B
03	01/02/17	DETAILS REVISED	L.L
02	01/02/17	DETAILS REVISED	L.L
1.2	20/05/15	DETAILS REVISED	M.T
REVn	DATE	DETAILS	INITIAL

MegaRail em H1 W4 (VI 4)

H1.W4 VEHICLE RESTRAINT SYSTEM.
BEAM LAPPING DETAIL FOR W4
MegaRail em SYSTEM



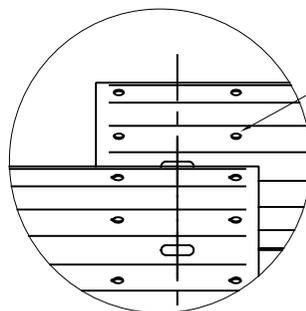
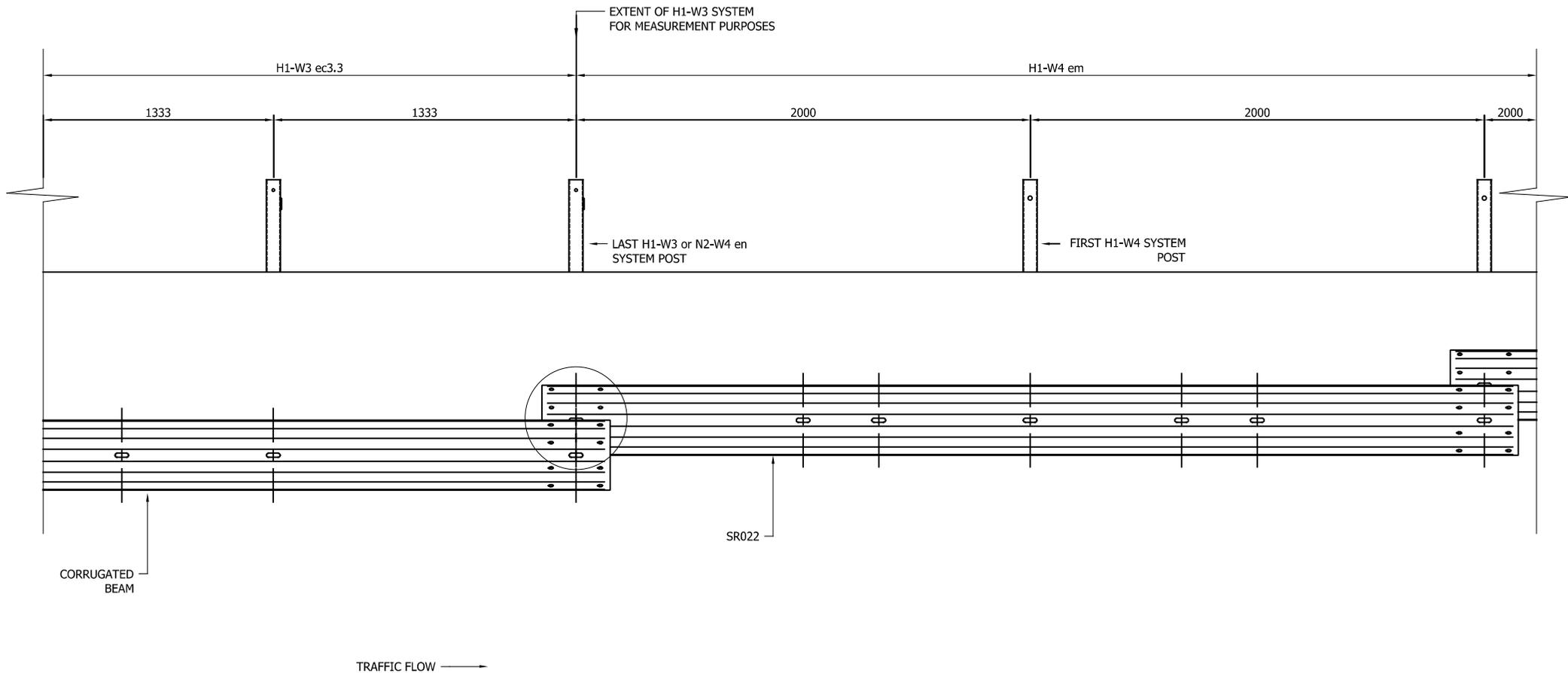
CONCORD HOUSE,
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DRAWING NUMBER:

H1W4-GA-03

REVn:

05



NOTE: BEAM ORIENTATION CIRCULAR HOLES TO BEAM APPROACH END

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

MegaRail em H1 W4 (VI 4)

SYSTEM PROGRESSION DETAILS



CONCORD HOUSE,
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t: 01724 289119
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REV#	DATE	DETAILS	INITIAL
03	21/05/24	BEAM SLOT DETAILS UPDATED	H.B
02	12/02/19	TITLEBLOCK REVISED	H.B
01	10/03/17	POST DETAILS REVISED	L.L
00	02/02/17	NEW DRAWING	L.L

DRAWING NUMBER:

H1W4-GA-20

REV#:

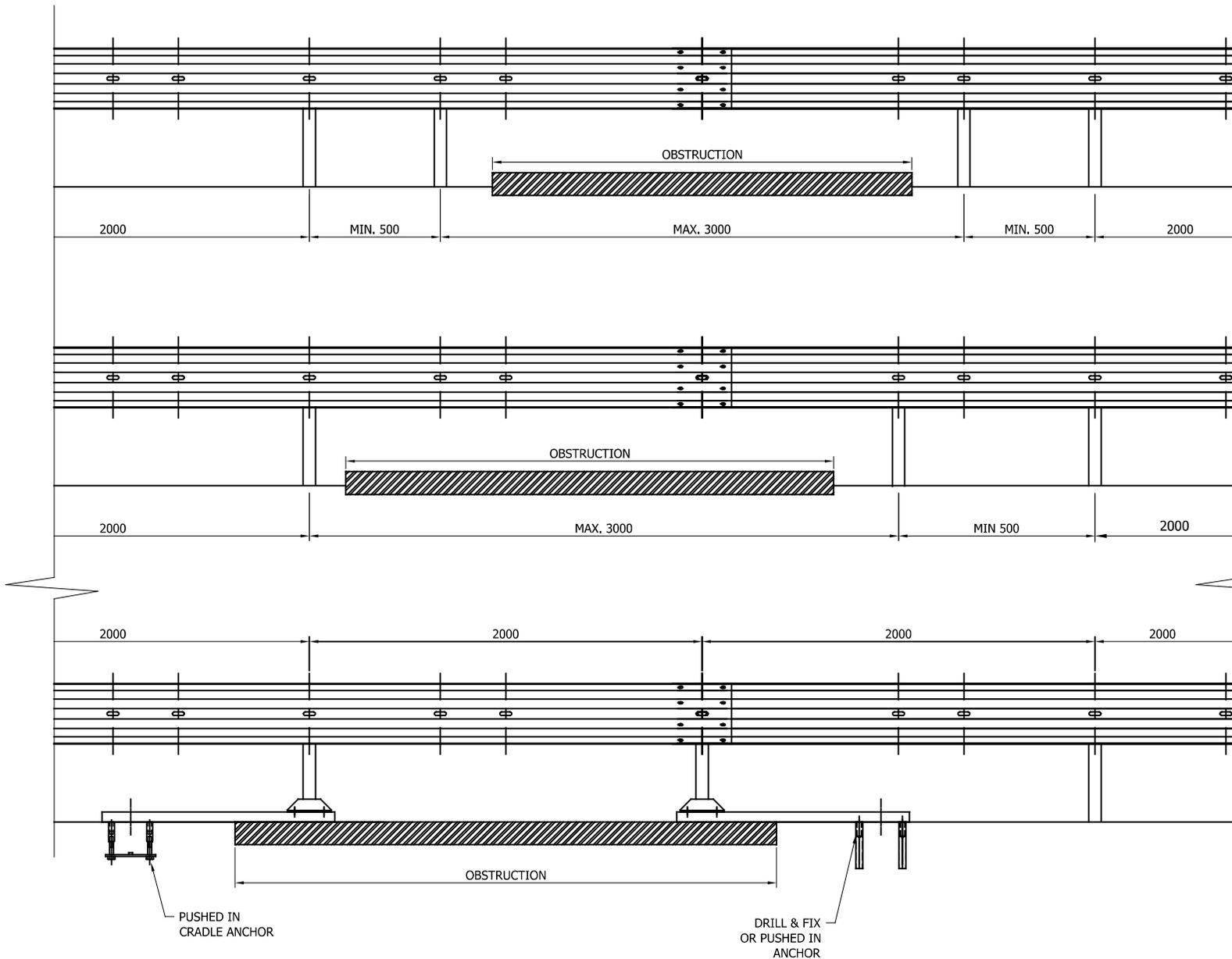
03

GENERAL NOTES:

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

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. THE NEW POST SPACING MUST NOT EXCEED 3000mm AND MUST NOT BE LESS THAN 500mm. 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 H1W4-GA-00 CAN BE USED.



05	21/05/24	BEAM SLOT DETAILS UPDATED	H.B
04	13/05/22	SURFACE MOUNTED POST BASE CHANGED	A.D
03	23/07/21	SURFACE MOUNTED POST DETAIL ADDED	A.D
02	12/02/19	TITLEBLOCK REVISED	H.B
01	10/03/17	NOTES REVISED	L.L
00	02/02/17	NEW DRAWING	L.L
REVn	DATE	DETAILS	INITIAL

MegaRail em H1 W4 (VI 4)

N2.W2 VEHICLE RESTRAINT SYSTEM
DEVIATION SETTING OUT
ARRANGEMENT



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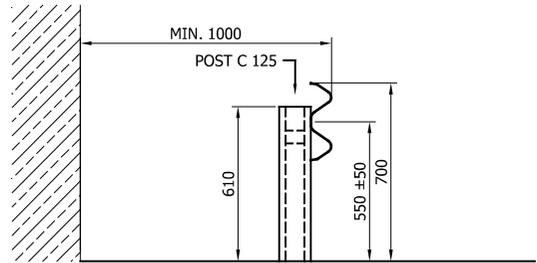
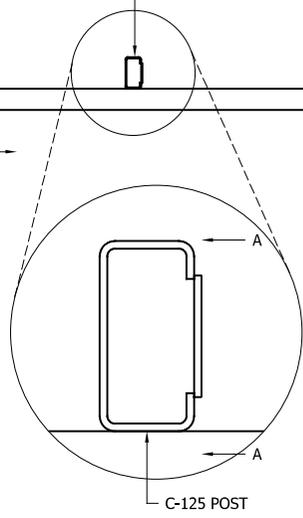
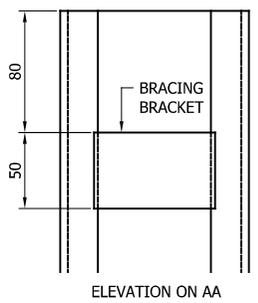
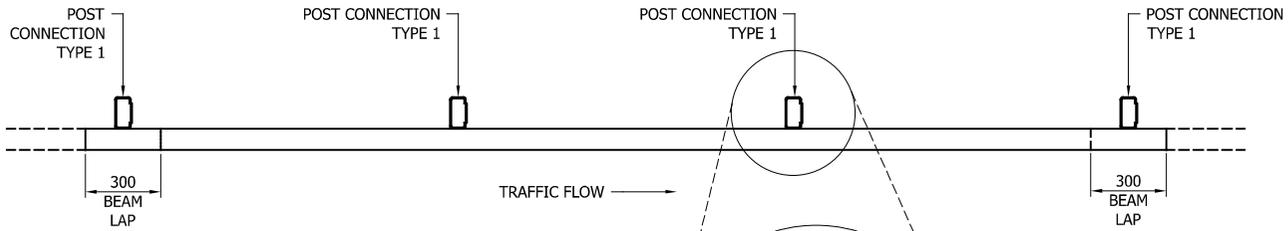
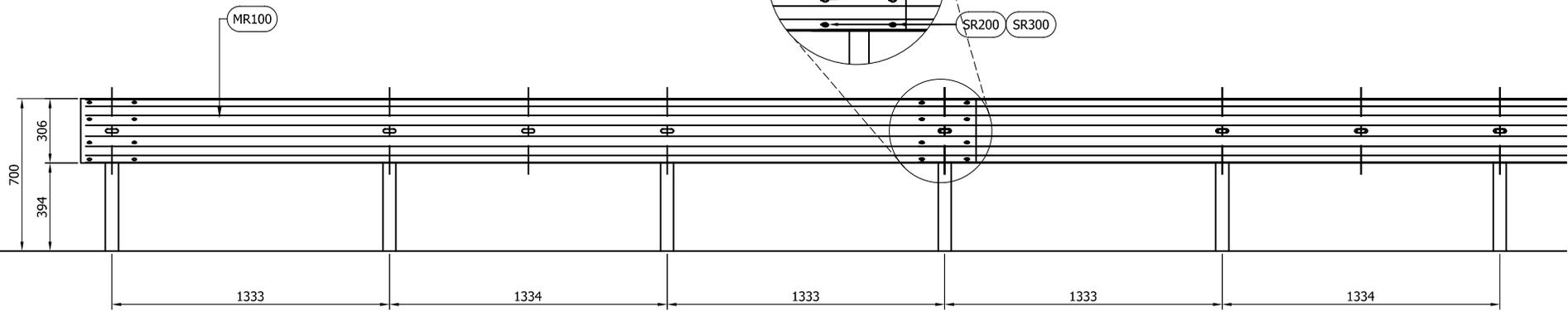
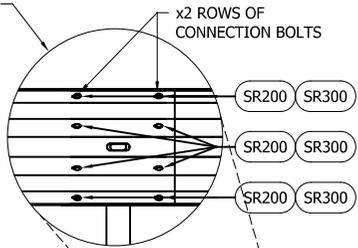
DRAWING NUMBER:

H1W4-GA-40

REVn:

05

BEAM TO BEAM LAP 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. WHEN TYING INTO ADJACENT VRS ONLY ONE WORKING WIDTH DIFFERENCE IS PERMITTED.
 4. WHERE A KERB IS PRESENT THE MAXIMUM KERB HEIGHT IS 125mm.
 5. FOR MINIMUM LENGTH OF FULL HEIGHT VRS REFER TO SAFEROAD MEGARAIL MANUAL.

**MegaRail ec4.4
H2 A W4**

H1.W3 ROAD RESTRAINT SYSTEM
ASSEMBLY & SETTING OUT
ARRANGEMENT

SAFEROAD®

CONCORD HOUSE,
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t: 01724 289119

FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

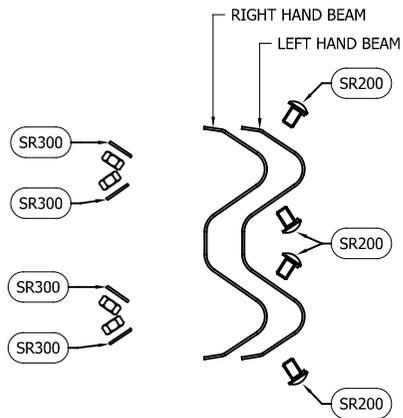
DRAWING NUMBER:
H2W4-GA-01 v1.5

OUTIMEX MANUFACTURING REFERENCE	SAFEROAD UK PART NUMBER	DESCRIPTION	QUANTITY
001.00M	MR001	BEAM "A" PROFILE	1
063.25/x	SEE TABLE 'B'	POST "C" 125 c/w BRACKET	3

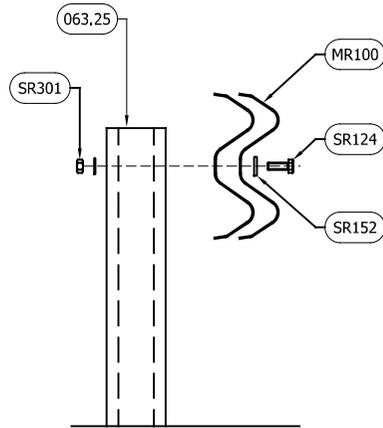
FOR SCHEDULE OF BOLTED CONNECTIONS REFER TO DRAWING NUMBER H1W3-GA-02

OUTIMEX MANUFACTURING REF.	SAFEROAD UK PART NUMBER	POST LENGTH
063.25/1	MR120	1100
063.25	MR121	1600
063.25/2	MR122	1800
063.25/3	MR123	2000

REV#	DATE	DETAILS	INITIAL
1.5	12/01/23	BOLT CODE AMENDMENT	H.B
1.4	25.05.22	E-MAIL ADDRESS CHANGED	A.D
1.3	02.11.15	BARRIER HEIGHT REVISED	L.L
1.2	03.06.15	BARRIER HEIGHT REVISED	M.T
1.1	20.05.15	DETAILS REVISED	M.T



**BEAM TO BEAM CONNECTION
ARRANGEMENT**
(x2 LOCATIONS / BEAM END)



**BEAM TO POST
CONNECTION TYPE 1**

GENERAL NOTES:

1. NUMBERS IN THE SCHEDULES SUFFIXED (+) DENOTES THE ADDITIONAL QUANTITY OF COMPONENTS REQUIRED FOR EXTREME ENDS OF INDIVIDUAL RUNS OF BARRIER.
2. POST STRAPS ARE INTERCHANGEABLE BETWEEN VERGE & CENTRAL RESERVE.

BOLTING COMPONENT SCHEDULE - QUANTITIES / BEAM			
OUTIMEX MANUFACTURING REFERENCE	SAFEROAD UK PART NUMBER	DESCRIPTION	BEAM TO BEAM CONNECTION
040.00	SR200	SETSCREW 4.6 LIP M16x27 c/w NUT	8 (+8)
040.30	SR300	WASHER M16 18φ HOLE	8 (+8)

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

BOLTING COMPONENT SCHEDULE - QUANTITIES / POST				
OUTIMEX MANUFACTURING REFERENCE	SAFEROAD UK PART NUMBER	DESCRIPTION	TYPE 1 CONNECTION	
040.54	SR124	SETSCREW 8.8 M10 x 45 c/w NUT	1	
T_010.10	SR152	WASHER PLATE 115 x 40 x 5 DIA. 12	1	
40.60	SR301	M10 WASHER 11φ HOLE	1	
QUANTITY OF CONNECTION TYPES / 4m BEAM				
				3 (+1)

REVn	DATE	DETAILS	INITIAL
1.3	12/01/23	BOLT GRADE AMENDMENT	H.B
1.2	25.05.22	E-MAIL ADDRESS CHANGED	A.D
1.1	20.05.15	NOTES REVISED	M.T

MegaRail ec4.4 H2 A W4

H1.W3 ROAD RESTRAINT SYSTEM
BOLTING ARRANGEMENTS

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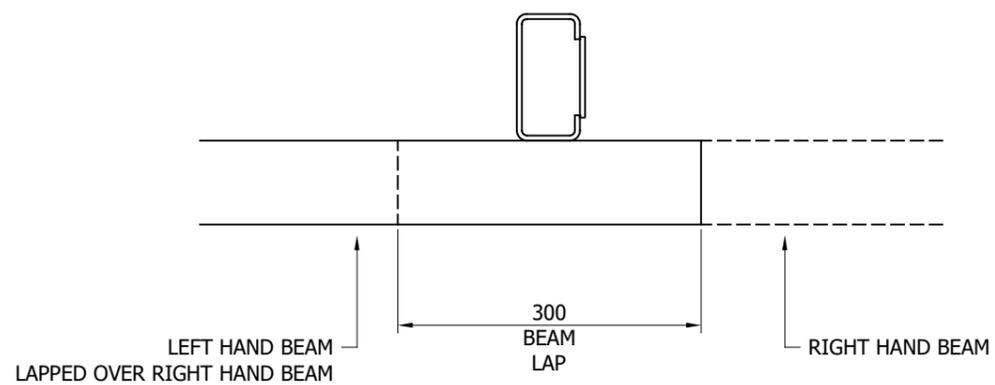
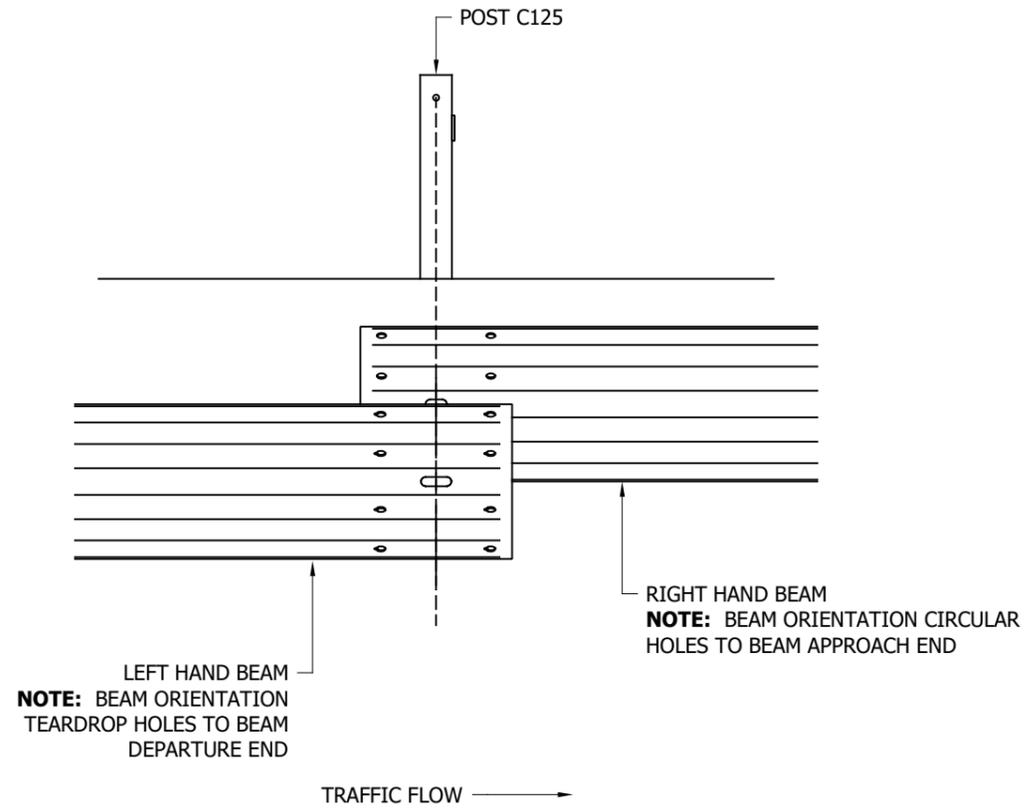
CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
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t: 01724 289119
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

H2W4-GA-02 v1.3

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

REVn	DATE	DETAILS	INITIAL
1.2	25.05.22	E-MAIL ADDRESS CHANGED	A.D
1.1	20.05.15	REVn BOX ADDED	M.T

MegaRail ec4.4 H2 A W4

H1.W3 ROAD RESTRAINT SYSTEM
BEAM LAPPING DETAIL FOR H1 A W3
MEGARAIL SYSTEM

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CONCORD HOUSE,
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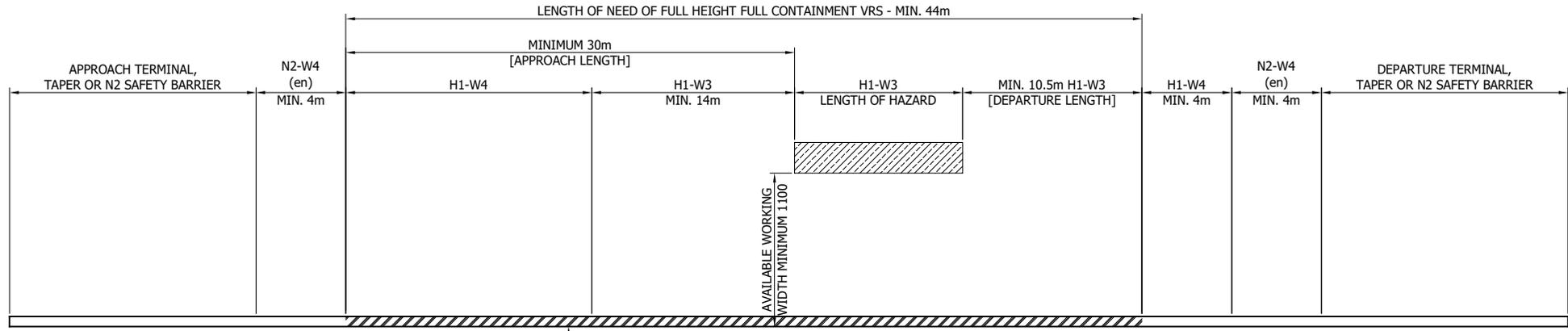
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

H2W4-GA-03 v1.2

GENERAL NOTES:

1. P.S.B. = POINT FROM WHERE SET-BACK IS MEASURED.
2. POSTS ARE TO BE INSTALLED WITH THE CLOSED FACE OF THE CHANNEL TOWARDS THE ON-COMING TRAFFIC.
3. MINIMUM LENGTH OF FULL HEIGHT VRS IS 44m



TRAFFIC FLOW →

MegaRail ec4.4 H2 A W4

H1.W3 ROAD RESTRAINT SYSTEM
SYSTEM PROGRESSION SCHEMATIC
FOR H1 W3 PROTECTION TO HAZARD

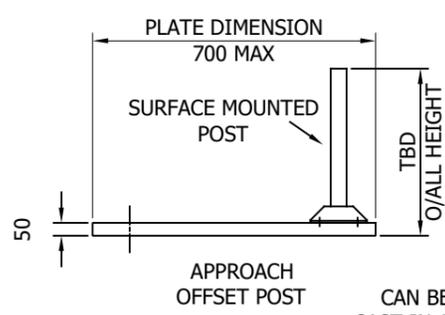
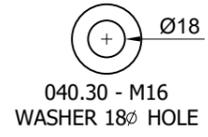
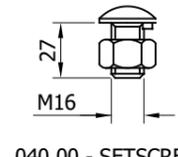
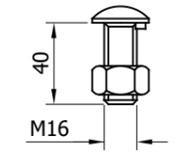
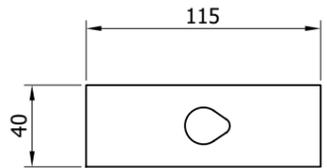
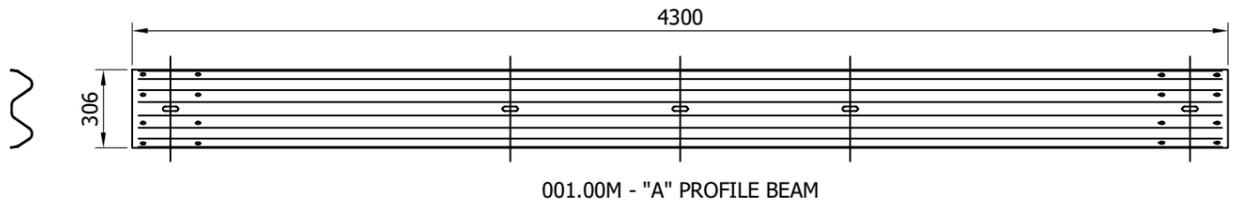
SAFEROAD®

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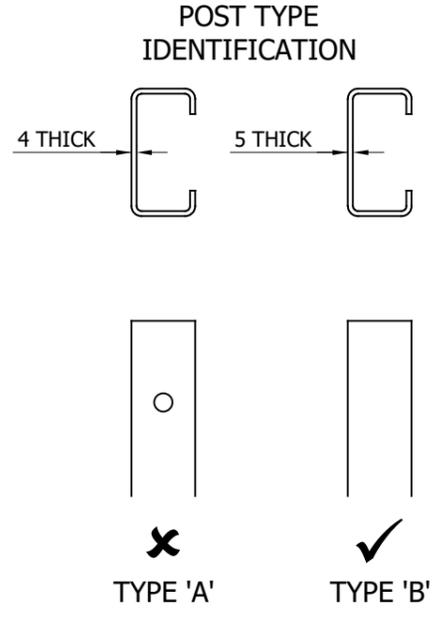
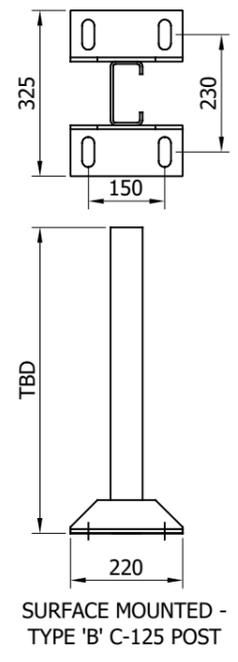
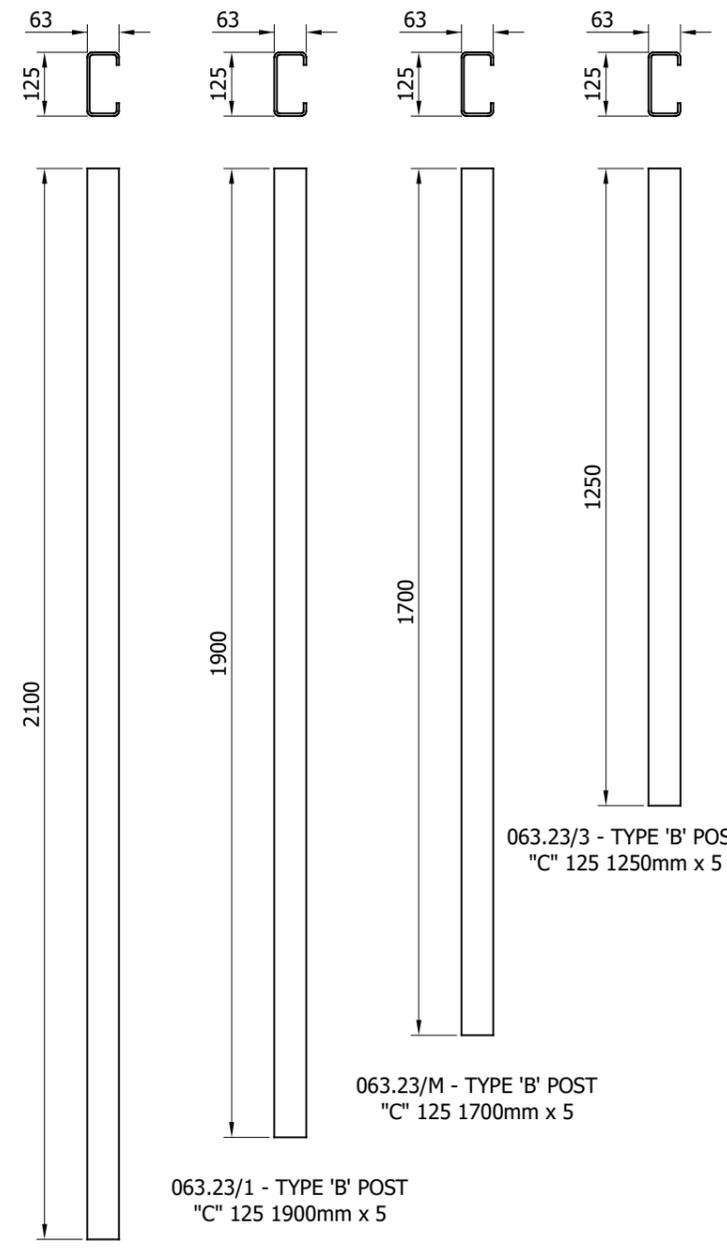
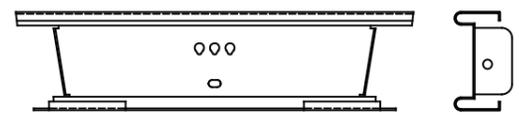
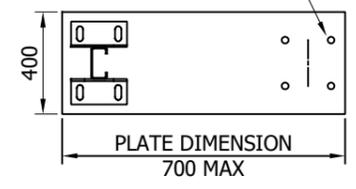
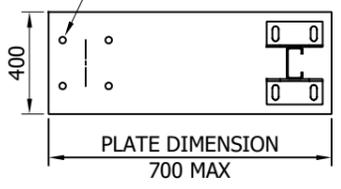
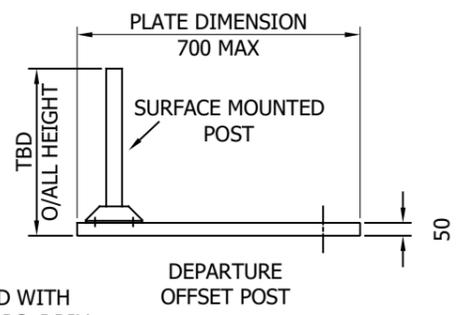
REV#	DATE	DETAILS	INITIAL
1.2	25.05.22	E-MAIL ADDRESS CHANGED	A.D
1.1	20.05.15	DETAILS REVISED	M.T

DRAWING NUMBER:

H2W4-GA-10 v1.2



CAN BE FIXED WITH CAST IN ANCHORS, DRILL AND FIX ANCHORS OR PUSHED IN ANCHORS AT 180x180 CENTERS



REVn	DATE	DETAILS	INITIAL
2.5	31.05.22	OFFSET PLATE DETAIL CHANGED	A.D
2.4	25.05.22	SURFACE MOUNTED POST BASE CHANGED	A.D
2.3	21.05.15	DETAILS REVISED	M.T

MegaRail d H2 A W5

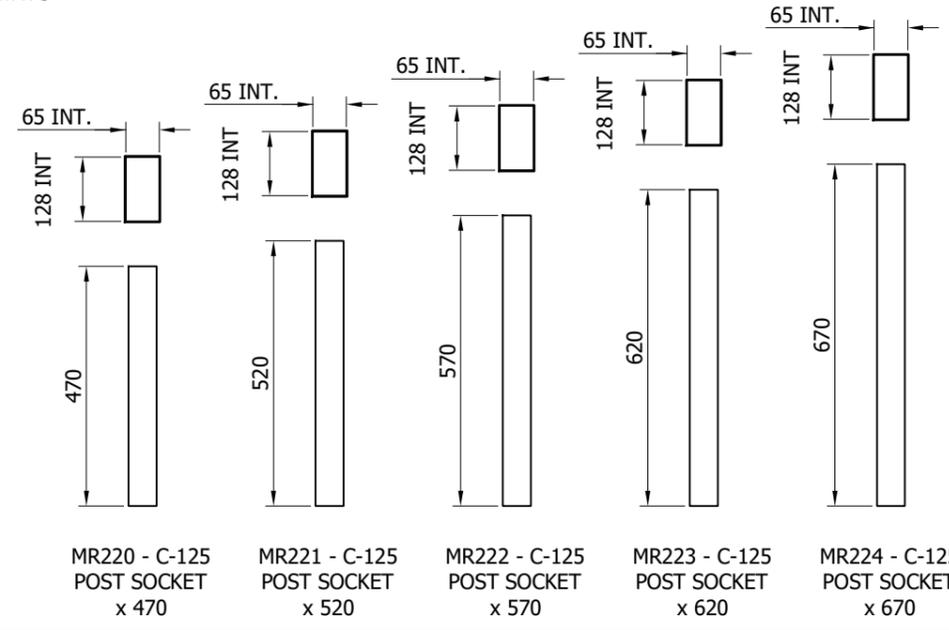
H2.W5 ROAD RESTRAINT SYSTEM COMPONENTS SCHEMATIC

SAFEROAD®

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john.cudlipp@saferoad.co.uk

DRAWING NUMBER:
H2W5-GA-00 v2.5



SYSTEM COMPONENT SCHEDULE - QUANTITIES / 4m RUN			
OUTIMEX REFERENCE NUMBER	SAFEROAD UK PART NUMBER	DESCRIPTION	QUANTITY
001.00M	MR100	BEAM "A" PROFILE	2
063.23xx	SEE TABLE 'B'	POST "C" 125 x 5mm	2
006.96M	MR162	BRACKET DOUBLE SPACER 780mm	2
FOR SCHEDULE OF BOLTED CONNECTIONS REFER TO DRAWING NUMBER MR-GA-W5-02			

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

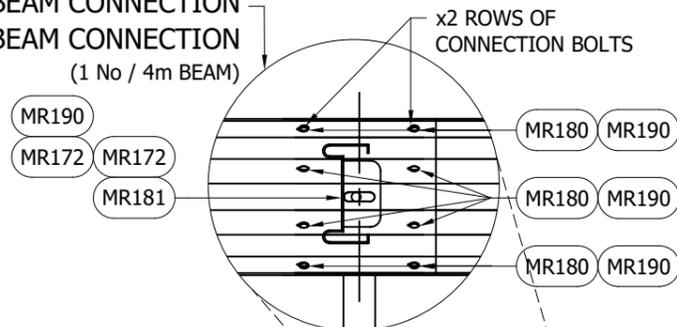
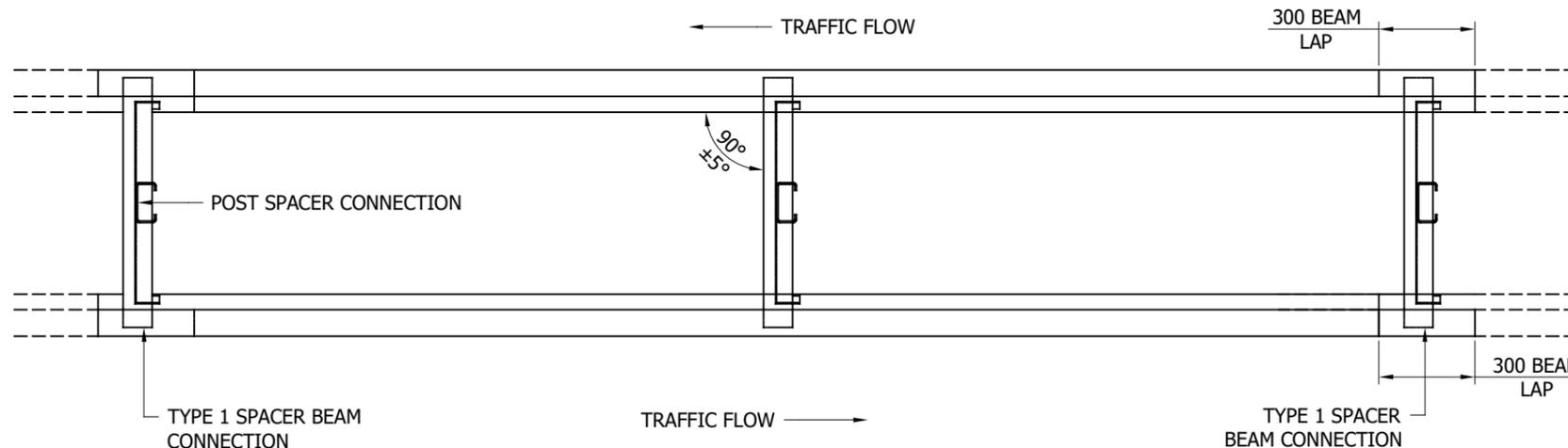
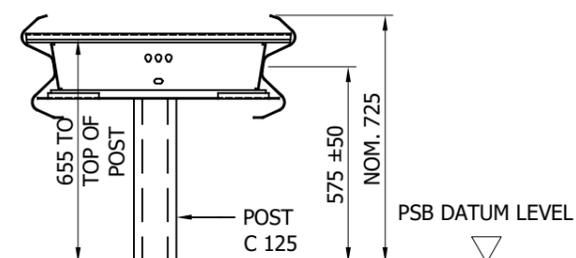
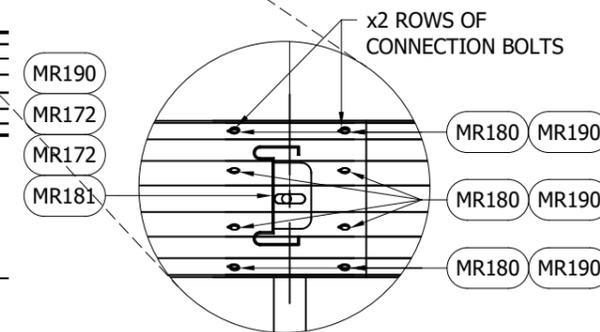
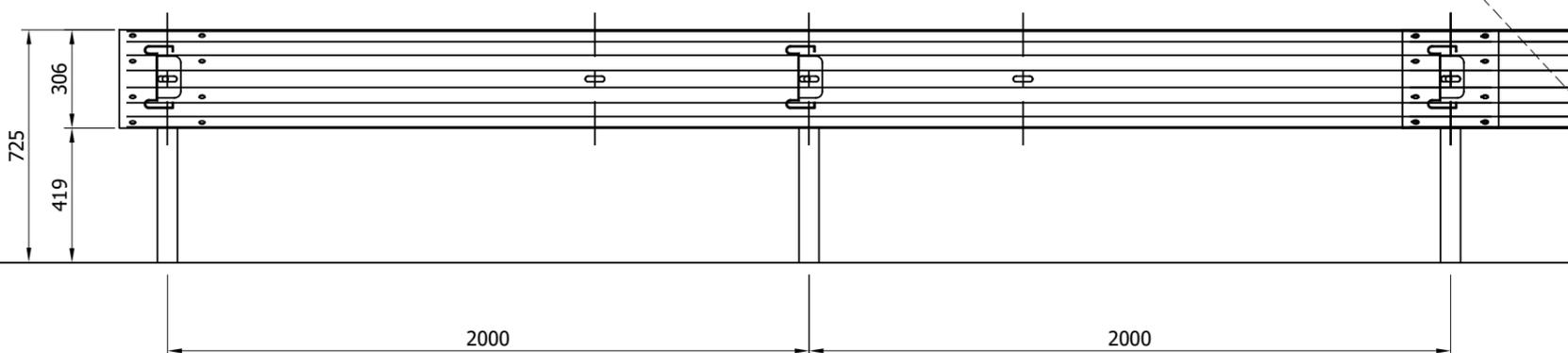
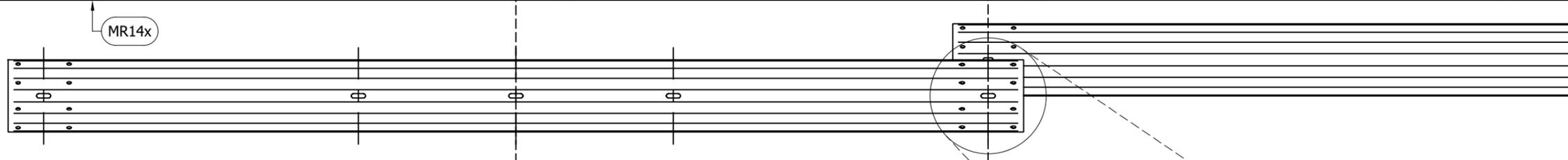
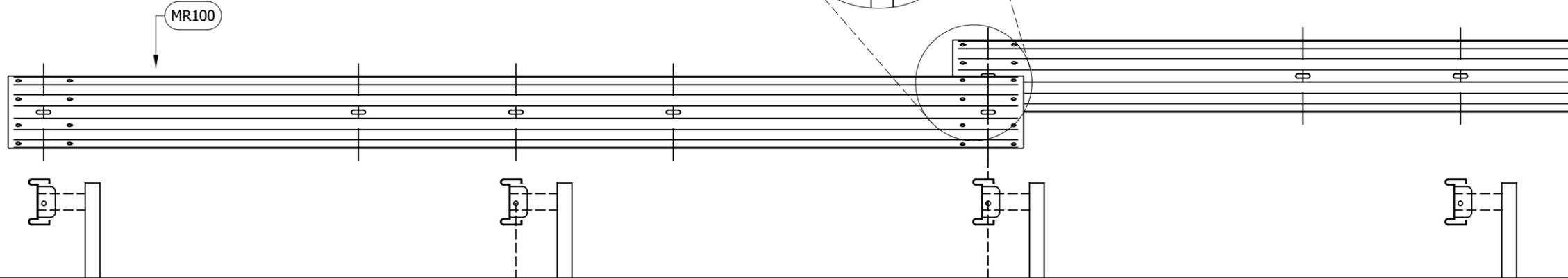


TABLE 'B' - SCHEDULE OF POST REFERENCE NUMBERS AND LENGTHS		
OUTIMEX MANUFACTURING REF.	SAFEROAD UK PART NUMBER	POST LENGTH
063.23/3	MR143	1250
063.23M	MR140	1700
063.23/1	MR141	1900
063.23/2	MR142	2100

GENERAL NOTES:

- P.S.B. = POINT FROM WHERE SET-BACK IS MEASURED.
- POSTS ARE TO BE INSTALLED WITH THE CLOSED FACE OF THE CHANNEL TOWARDS THE ON-COMING TRAFFIC WITH THE SMALLEST BIAS.
- FOR OPTIONS ON POST FOUNDATIONS REFER TO DRAWING NUMBER MR-GA-020
- FOR DEVIATIONS IN SYSTEM POST PITCH REFER TO SECTION 8 OF SAFEROAD MEGARAIL MANUAL, DEVIATION CHART.
- WHEN TYING INTO ADJACENT VRS ONLY ONE WORKING WIDTH DIFFERENCE IS PERMITTED.
- WHERE A KERB IS PRESENT THE MAXIMUM KERB HEIGHT IS 125mm.
- FOR MINIMUM LENGTH OF FULL HEIGHT VRS REFER TO SAFEROAD MEGARAIL MANUAL.



REVn	DATE	DETAILS	INITIAL
2.5	25.05.22	E-MAIL CONTACT CHANGED	A.D
2.4	21.05.15	DETAILS REVISED	M.T

**MegaRail d
H2 A W5**

H2.W5 ROAD RESTRAINT SYSTEM
ASSEMBLY & SETTING OUT
ARRANGEMENT

SAFEROAD®

CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119

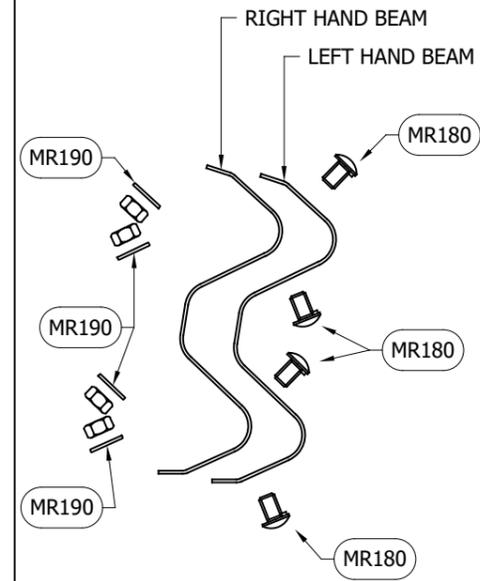
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

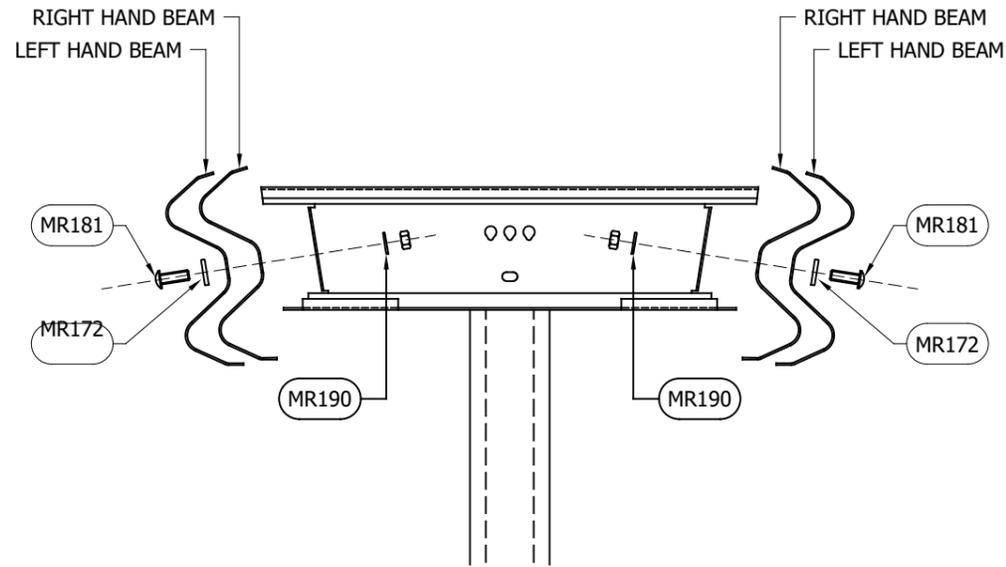
H2W5-GA-01 v2.5

GENERAL NOTES:

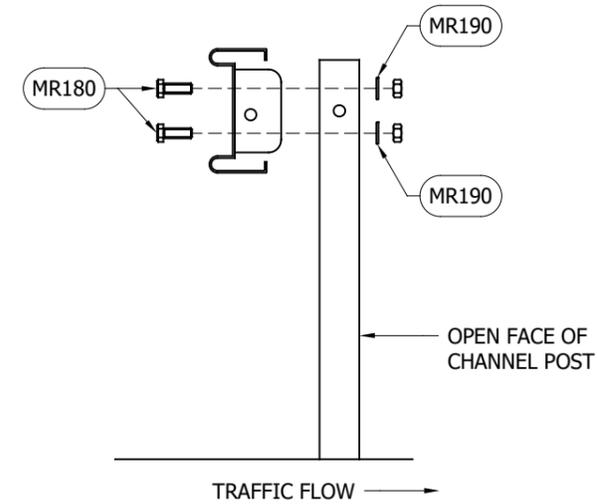
- NUMBERS IN THE SCHEDULES SUFFIXED (+) DENOTES THE ADDITIONAL QUANTITY OF COMPONENTS REQUIRED FOR EXTREME ENDS OF INDIVIDUAL RUNS OF BARRIER.



BEAM TO BEAM CONNECTION ARRANGEMENT
(x2 LOCATIONS / BEAM END)



SPACER TO BEAM CONNECTION TYPE 1



SPACER BEAM TO POST CONNECTION TYPE 1

BOLTING COMPONENT SCHEDULE - QUANTITIES / BEAM			
OUTIMEX MANUFACTURING REFERENCE	SAFEROAD UK PART NUMBER	DESCRIPTION	BEAM TO BEAM CONNECTION
040.00	MR180	SETSCREW 4.6 LIP M16x27 c/w NUT	8 (+8)
040.30	MR190	WASHER M16 18Ø HOLE	8 (+8)

BOLTING COMPONENT SCHEDULE - QUANTITIES / POST			
OUTIMEX MANUFACTURING REFERENCE	SAFEROAD UK PART NUMBER	DESCRIPTION	TYPE 1 CONNECTION
040.00	MR180	SETSCREW 4.6 LIP M16 x 27 c/w NUT	2
040.01	MR181	SETSCREW 4.6 LIP M16 x 40 c/w NUT	2
010.00	MR172	WASHER PLATE 115 x 40 x 6 TEARDROP	2
040.30	MR190	WASHER M16 18Ø HOLE	4
QUANTITY OF CONNECTION TYPES / 4m BEAM			
			2 (+1)

REVn	DATE	DETAILS	INITIAL
2.6	25.05.22	E-MAIL ADDRESS CHANGED	A.D
2.5	21.05.15	DETAILS REVISED	M.T

MegaRail d H2 A W5

H2.W5 ROAD RESTRAINT SYSTEM
BOLTING ARRANGEMENTS

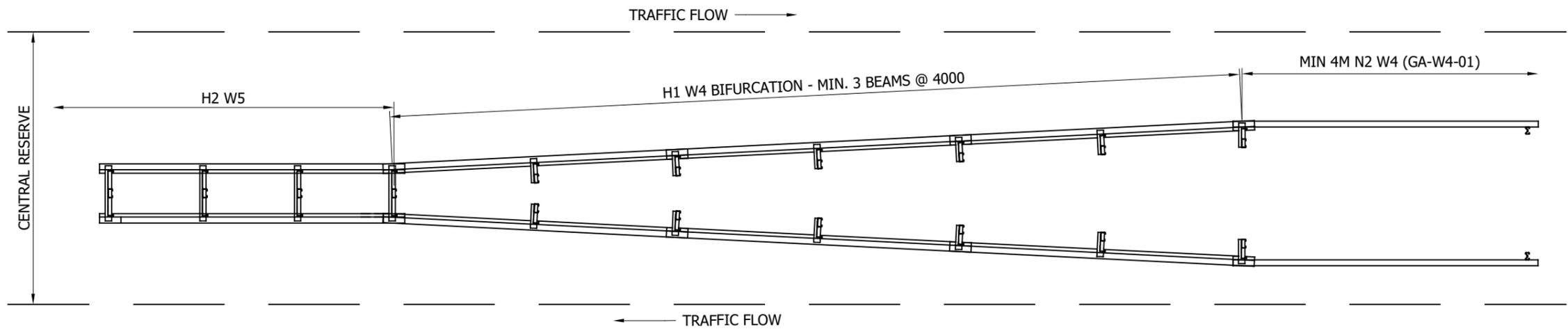
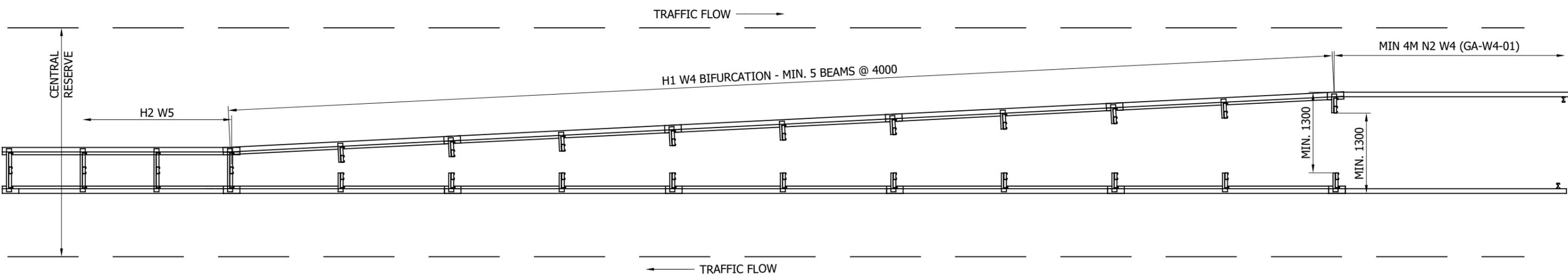
SAFEROAD®

CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119

FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

H2W5-GA-02 v2.6



- GENERAL NOTES:
1. FULL LENGTH OF BIFURCATION ARRANGEMENT IS TO BE INSTALLED AS H1 W4 UNTIL W4 WORKING WIDTH IS ATTAINED BETWEEN THE FRONT FACE OF EITHER BEAM AND THE REAR FACE OF THE POST TO THE OPPOSING SIDE.
 2. MINIMUM OF 4m OF N2 W4 (GA-W4-01) SYSTEM TO BE INSTALLED BEYOND THE EXTENT OF THE BIFURCATION ARRANGEMENT.

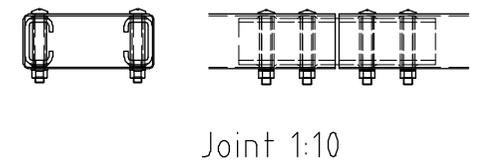
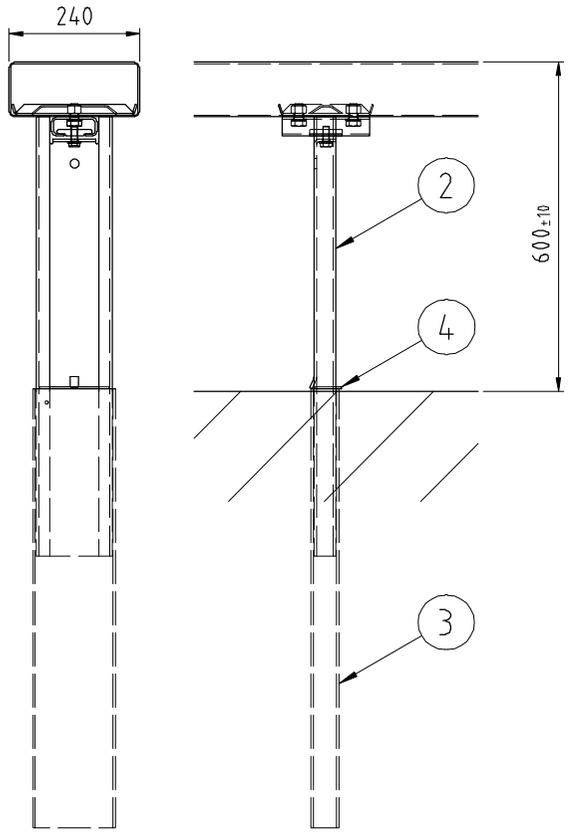
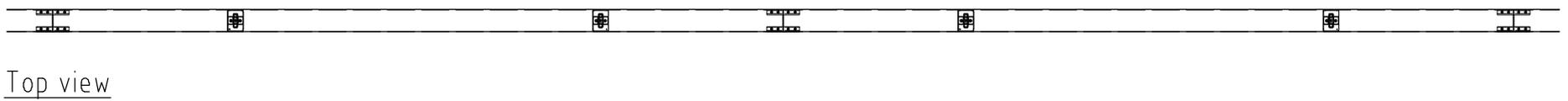
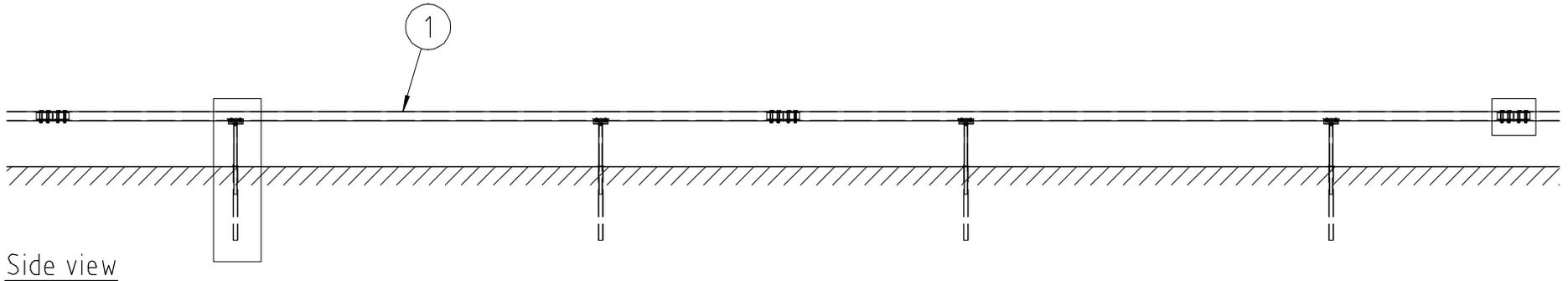
REVn	DATE	DETAILS	INITIAL
2.4	25.05.22	E-MAIL ADDRESS CHANGED	A.D
2.3	21.05.15	DETAILS REVISED	M.T

MegaRail d H2 A W5

ROAD RESTRAINT SYSTEM
CENTRAL RESERVE BIFURCATION
GENERAL ARRANGEMENT

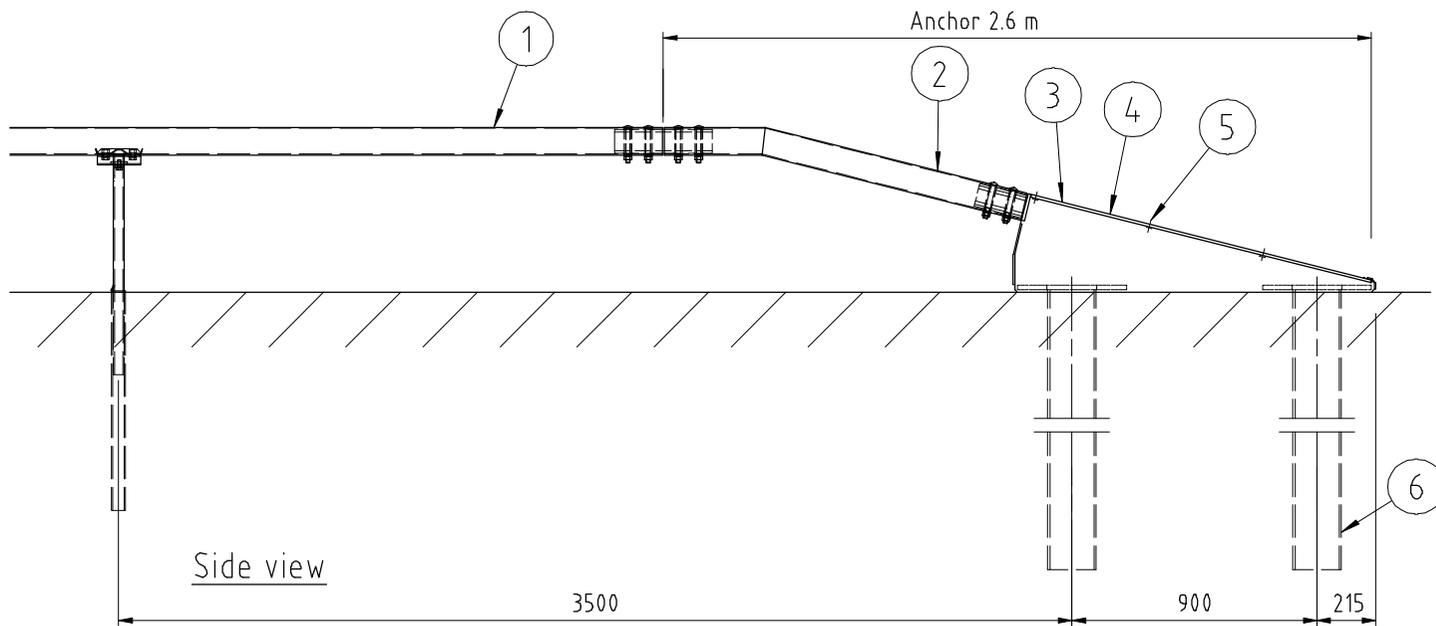
SAFEROAD®
CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:
H2W5-GA-50 v2.4

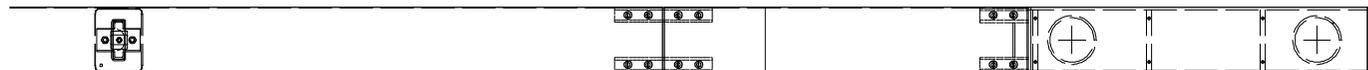


Post in Foundation 1:10

4	1	Cover for foundation	PE LD		Article no. 8920540			
3	1	Foundation for post			Article no. 8920318			
2	1	C-post for foundation assembly			Assembly no. 8920302A			
1	1	Square pipe assembly 8m			Assembly no. 8920201A			
Item No.	Qty.	Description	Material	Dimension	Note			
Design.	Drawn	Copied	Control.	Stand.	Appr.	Scale	Replaces	Replaced by
	GLN		ALN			1:50		
Birsta 1P, Guardrail cc 4m								
Post in foundation								
Filename: 8910002 Drawing no.: 8910002					Date: 2009-12-21 Rev.:			
Tel: 060 - 62 72 00 Fax: 060 - 62 72 15, 62 72 16								



Side view

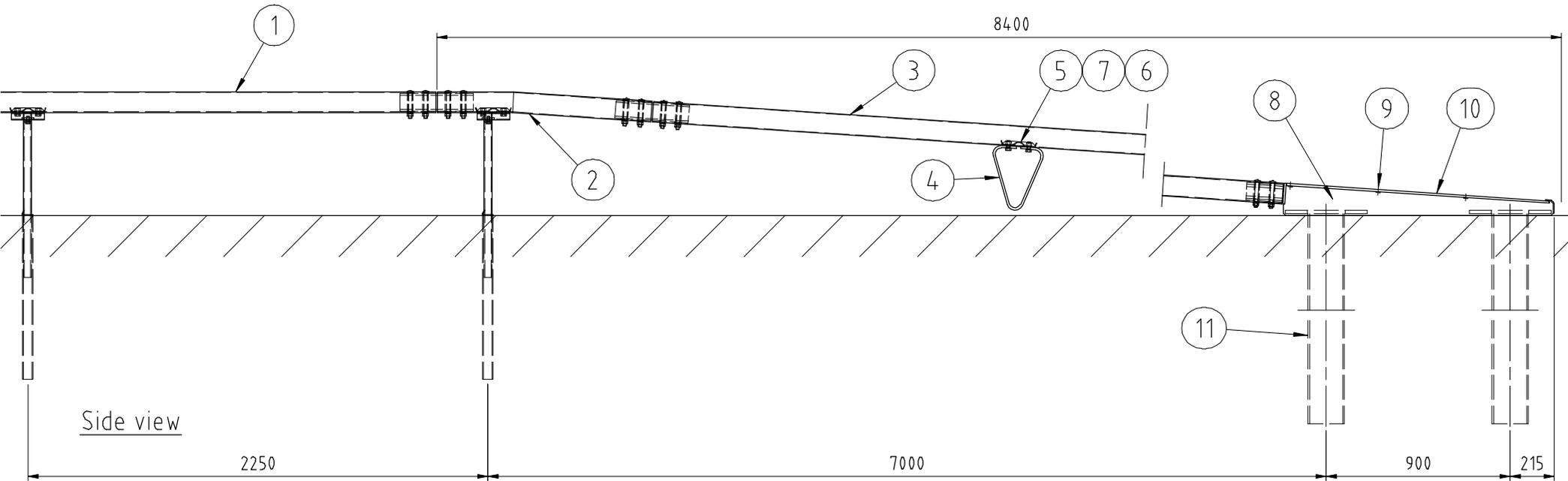


Top view

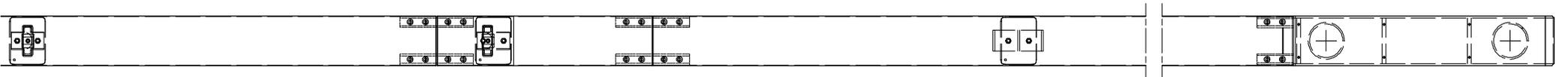
6	2	" Nail "				Assembly no. 8910070
5	6	M6x5,5 TT Marutex	A2			Article no. 1132550320
4	1	Cover POLYSTONE	G-BLACK HD			Article no. 8920508
3	1	Anchor " box "				Article no. 8920509
2	1	Transition pipe				Assembly no. 8920206A
1	1	Birsta 1P, Guardrail				Assembly no. 8910002

Item No.	Qty.	Description	Material	Dimension	Note			
Design.	Drawn	Copied	Control.	Stand.	Appr.	Scale	Replaces	Replaced by
	GLN		ALN			1:20		

<p>birstaverken ab Tel: 060 - 62 72 00 Fax: 060 - 62 72 15, 62 72 16</p>	Birsta 1P, Guardrail Anchor SP 2.6 m		Filename 8910010	Date 2009-12-21
			Drawing no. 8910010	Rev.



Side view

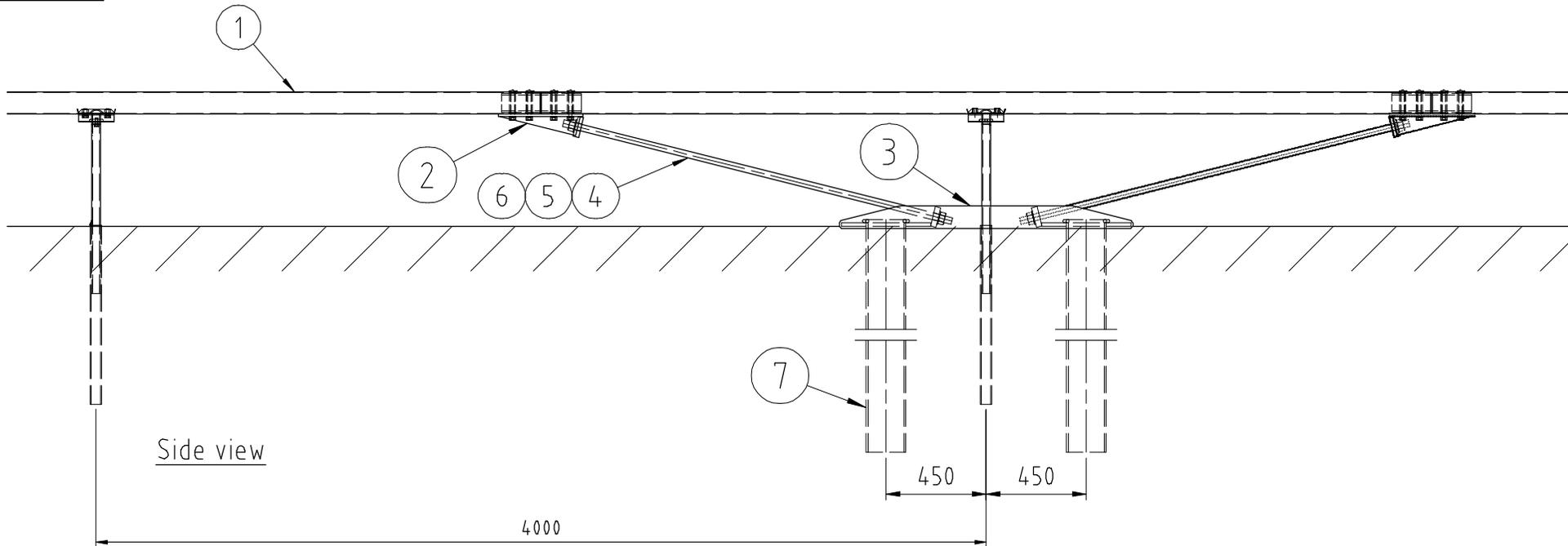


Top view

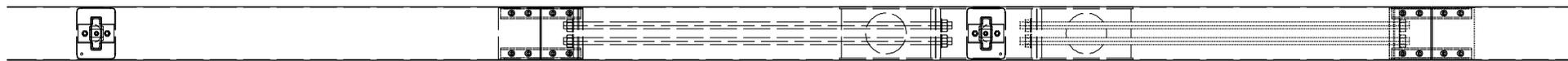
11	2	" Nail "			Assembly no. 8910070
10	1	Cover POLYSTONE	G-BLACK HD		Article no. 8920508
9	6	M6x5,5 TT Marutex	A2		Article no. 1132550320
8	1	Anchor "box"			Article no. 8920510
7	2	RB 17x30 BRB VFZ HB 200			Article no. 1126173400
6	2	M16x35 M6S 8.8 VFZ			Article no. 1120160350
5	1	Nutplate			Article no. 8920501
4	1	Support			Article no. 8920329
3	1	Square pipe Assembly 6 m			Assembly no. 89202022A
2	1	Transition pipe			Assembly no.8920207A
1	1	Birsta 1P, Guardrail			Assembly no. 8910002

Item No.	Qty.	Description	Material	Dimension	Note			
Design.	Drawn	Copied	Control.	Stand.	Appr.	Scale	Replaces	Replaced by
	GLN		ALN			1:20		

	Birsta 1P, Guardrail		Filename	Date
	Anchor SP 8.4 m		8910020	2009-12-21
Tel: 060 - 62 72 00 Fax: 060 - 62 72 15, 62 72 16		Drawing no.		Rev.
		8910020		



Side view

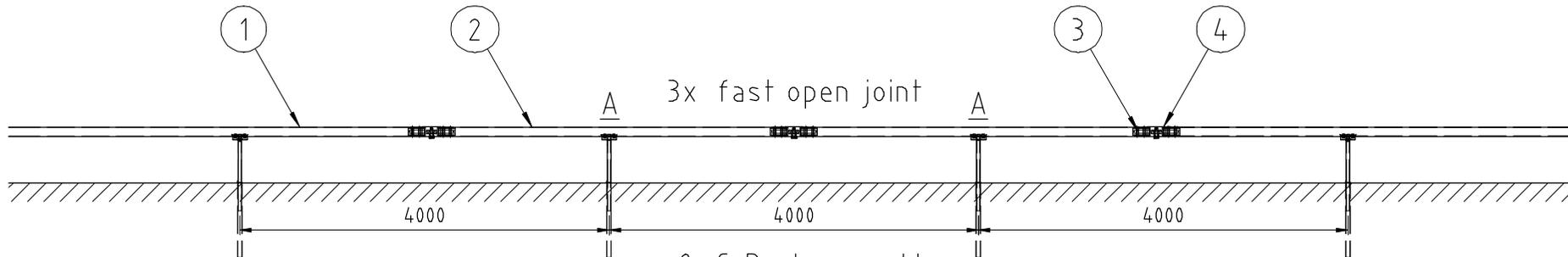


Top view

7	1	" Nail "				Article no. 8920515
5	4	M30 M6M 8.8 VFZ				Article no. 1123300000
4	4	RB 34x58 SRB VFZ				Article no. 1126345800
6	2	Tie rod			M30 x 1800	Article no. 8920518
3	1	Ground tie rod bracket				Article no. 8920513
2	1	Upper tie rod bracket				Article no. 8920514
1	1	Birsta 1P				Assembly no. 8910002

Item No.	Qty.	Description	Material	Dimension	Note	
Design.	Drawn	Copied	Control.	Stand.	Appr.	
	GLN		ALN			
					Scale 1:20	
					Replaces	Replaced by

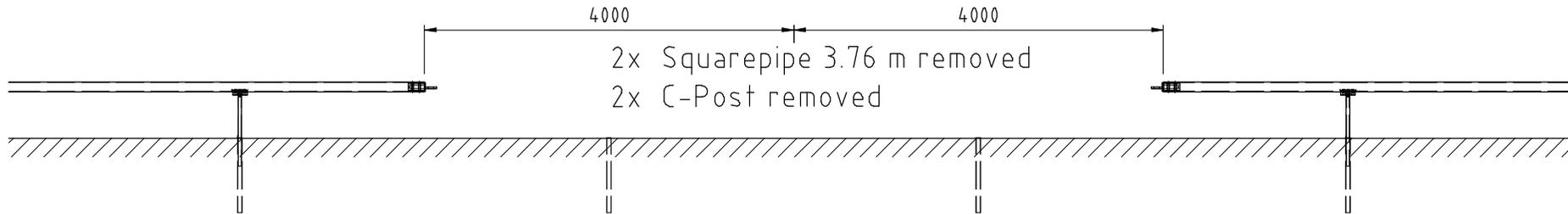
<p>birstaverken ab Tel: 080 - 52 72 00 Fax: 080 - 52 72 15, 52 72 18</p>	Birsta 1P, Guardrail Tie rod anchor		Filename 8910030	Date 2009-12-21
			Drawing no. 8910030	Rev.



Side view

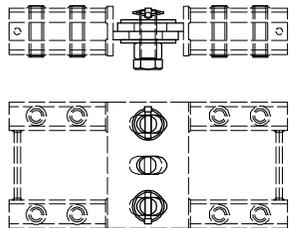


Top view

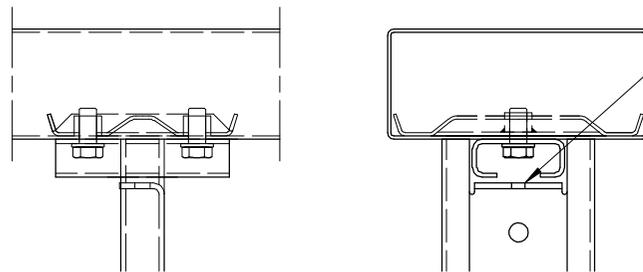


Side view, open

OBS!
At the removable section, the posts must NOT be mounted to the squarepipe



Joint
(1:10)

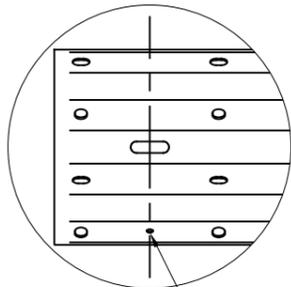
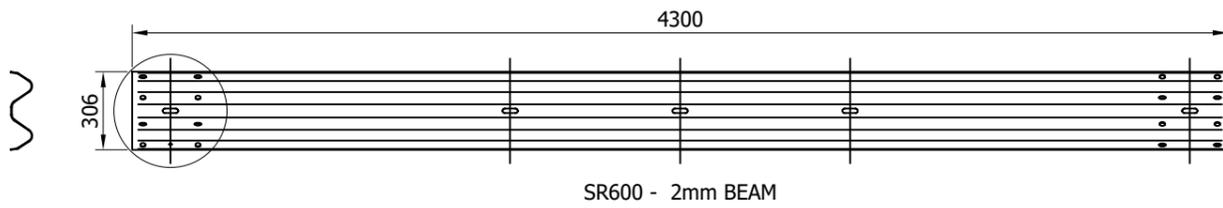


Removable posts
(1:5)

4	3	Joint cover				Article no. 8920536
3	3	Fast opening joint				Assembly no. 8920415A
2	2	Squarepipe 3.76 m				Assembly no. 8920208A
1	1	Birsta 1P, Guardrail				Assembly no. 8910002

Item No.	Qty.	Description	Material	Dimension	Note			
Design.	Drawn	Copied	Control.	Stand.	Appr.	Scale	Replaces	Replaced by
	GLN		ALN			1:50		

<p>birstaverken ab Tel: 060 - 62 72 00 Fax: 060 - 62 72 15, 62 72 16</p>	<p>Birsta 1P, Guardrail Fast opening</p>		<p>Filename 8910050</p>	<p>Date 2009-12-21</p>
			<p>Drawing no. 8910050</p>	<p>Rev.</p>



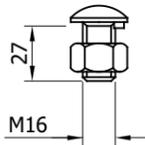
NOTE: THIS HOLE IDENTIFIES THE REQUIRED ORIENTATION OF THE BEAM AND THE BEAM END WITH THE ADDITIONAL HOLE SHOULD BE SITED AS THE REAR BEAM AT LAP JOINTS

WASHER PLATE 115x40x5

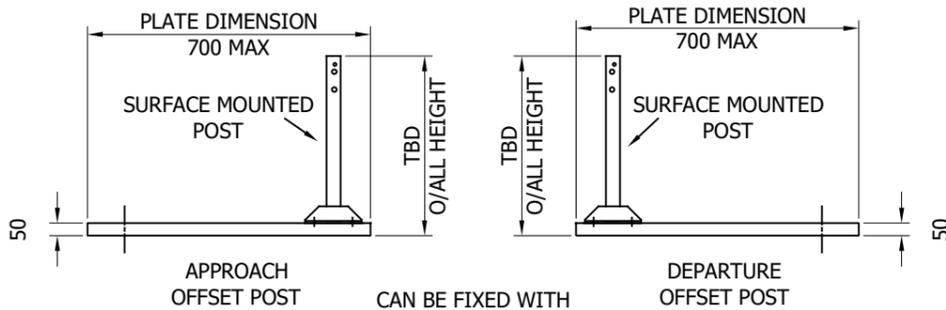
WASHER 23^{od} x 13.5^φ
HOLE x 2.7mm THICK

M10

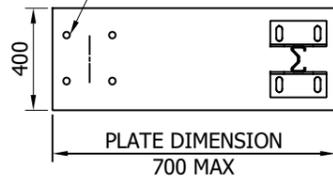
SR632 - BOLT 4.6 M10x35 c/w NUT,
WASHER AND WASHER PLATE



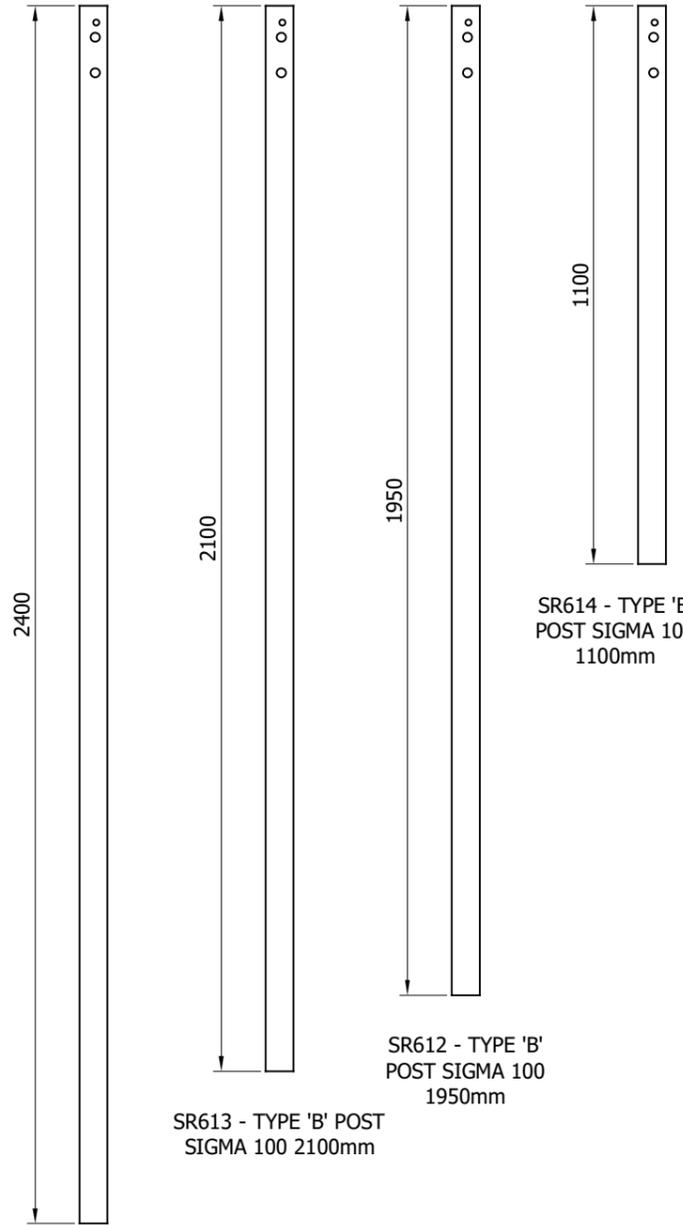
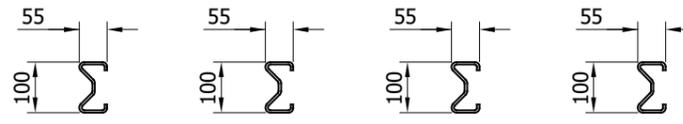
SR635 - SETSCREW 4.6
LIP M16x27 c/w FLANGE
NUT



CAN BE FIXED WITH
CAST IN ANCHORS, DRILL
AND FIX ANCHORS OR
PUSHED IN ANCHORS
AT 180x180 CENTERS



BASEPLATE DRILL &
TAPPED FOR LIFTING EYE



SR609 - TYPE 'B'
POST SIGMA 100
2400mm

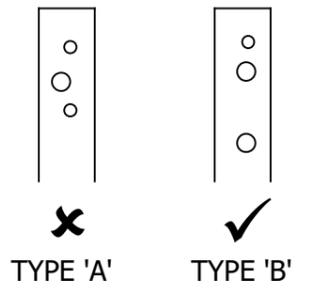
SR613 - TYPE 'B' POST
SIGMA 100 2100mm

SR612 - TYPE 'B'
POST SIGMA 100
1950mm

SR614 - TYPE 'B'
POST SIGMA 100
1100mm

SURFACE MOUNTED TYPE
'B' SIGMA 100 POST

POST TOP DRILLING
ARRANGEMENT



REVn	DATE	DETAILS	INITIAL
07	31/05/22	OFFSET PLATE DETAIL CHANGED	A.D
06	25/05/22	SURFACE MOUNTED POST BASE CHANGED	A.D
05	12/02/19	MINOR DETAIL CHANGES AND TITLEBLOCK CHANGE	H.B
04	10/03/17	OFFSET PLATE REVISED	L.L
03	27/01/17	DETAILS REVISED	L.L
2.3	20/05/15	DETAILS REVISED	L.L

**MegaRail Birsta W2
N2 A W4**

N2.W4 VEHICLE RESTRAINT SYSTEM
COMPONENTS SCHEMATIC

SAFEROAD®

CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119

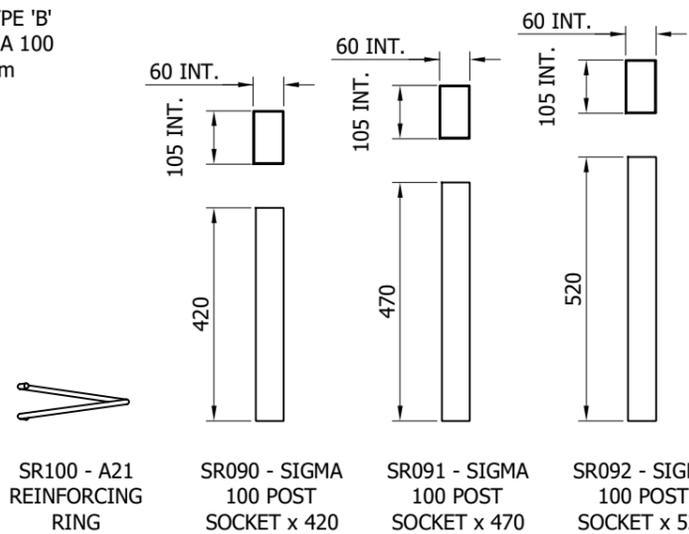
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

N2W4-GA-00

REVn:

07



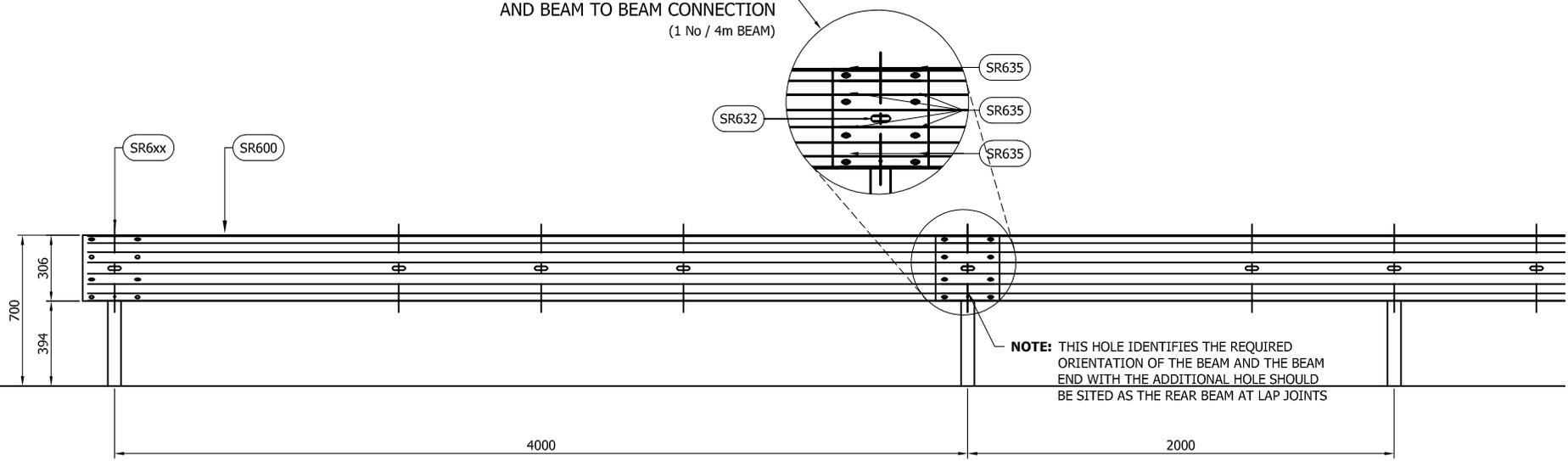
SR100 - A21
REINFORCING
RING

SR090 - SIGMA
100 POST
SOCKET x 420

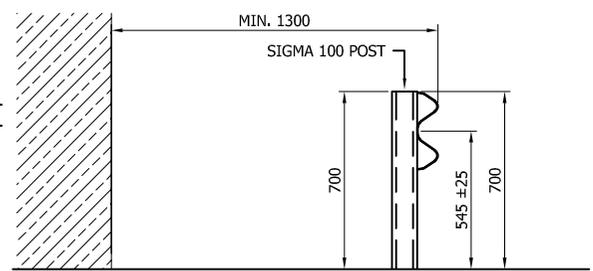
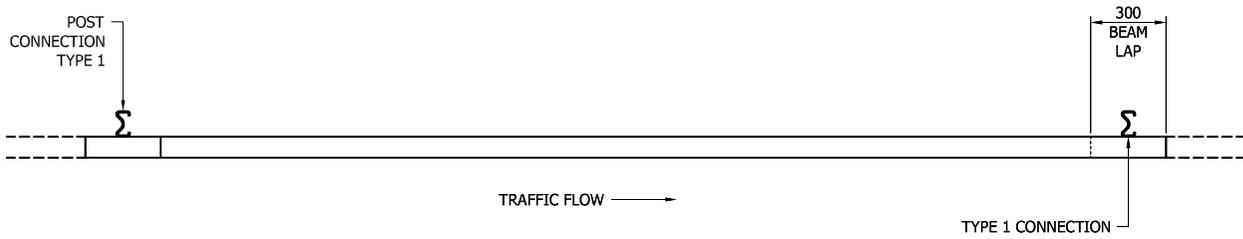
SR091 - SIGMA
100 POST
SOCKET x 470

SR092 - SIGMA
100 POST
SOCKET x 520

**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. POST CENTRES MAY BE INSTALLED AT EITHER 2m OR 4m CENTRES, AS SHOWN IN ELEVATION, TO ACCOMMODATE LOCAL OBSTRUCTIONS. THE SYSTEM SHOULD RETURN TO 4m CENTRES WITH POSTS AT THE BEAM LAP JOINTS LOCATIONS, AS PLAIN VIEW, AS SOON AS IS PRACTICAL.
 3. FOR OPTIONS ON POST FOUNDATIONS REFER TO DRAWING NUMBER MR-GA-020
 4. FOR DEVIATIONS IN SYSTEM POST PITCH REFER TO DRAWING N2W4-GA-40.
 5. WHEN TYING INTO ADJACENT VRS ONLY ONE WORKING WIDTH DIFFERENCE IS PERMITTED.
 6. WHERE A KERB IS PRESENT THE MAXIMUM KERB HEIGHT IS 100mm.
 7. FOR MINIMUM LENGTH OF FULL HEIGHT VRS REFER TO SAFEROAD MEGARAIL MANUAL.



SYSTEM COMPONENT SCHEDULE - QUANTITIES / 4m BEAM		
SAFEROAD UK PART NUMBER	DESCRIPTION	QUANTITY
SR600	BEAM "A" PROFILE 2mm	1
SEE TABLE B	POST SIGMA 100	1
FOR SCHEDULE OF BOLTED CONNECTIONS REFER TO DRAWING NUMBER MR-GA-W4-02		

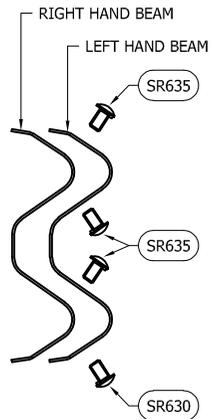
TABLE 'B' - SCHEDULE OF POST REFERENCE NUMBERS AND LENGTHS	
SAFEROAD UK PART NUMBER	POST LENGTH
SR614	1100
SR611	1700
SR612	1950
SR613	2100

REV#	DATE	DETAILS	INITIAL
04	12/02/19	MINOR DETAIL CHANGES AND TITLEBLOCK REVISIONS	H.B
03	27/01/17	DETAILS REVISED	L.L
2.3	20/05/15	DETAILS REVISED	L.L

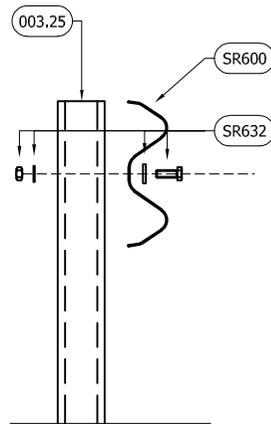
**MegaRail Birsta W2
N2 A W4**
N2.W4 VEHICLE RESRAINT SYSTEM
ASSEMBLY AND SETTING OUT
ARRANGEMENT

SAFEROAD®
CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER: **N2W4-GA-01** REV#: **04**



BEAM TO BEAM LAP
CONNECTION ARRANGEMENT
(x2 LOCATIONS / BEAM END)



BEAM TO POST
CONNECTION TYPE 1

GENERAL NOTES:

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

BOLTING COMPONENT SCHEDULE - QUANTITIES / BEAM

BIRSTA MANUFACTURING REFERENCE	SAFEROAD UK PART NUMBER	DESCRIPTION	BEAM TO BEAM CONNECTION
1122160250	SR635	SETSCREW 4.6 LIP M16x27 c/w FLANGE NUT	8 (+8)

BOLTING COMPONENT SCHEDULE - QUANTITIES / POST

OUTIMEX MANUFACTURING REFERENCE	SAFEROAD UK PART NUMBER	DESCRIPTION	TYPE 1 CONNECTION
1128121150A	SR632	BOLT 4.8 M10x35 c/w NUT, WASHER 11Ø HOLE AND WASHER PLATE 115 x 40 x 5mm	1
QUANTITY OF CONNECTION TYPES / 4m BEAM			1 (+1)

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

REV#	DATE	DETAILS	INITIAL
04	12/02/19	TITLEBLOCK CHANGES	H.B
03	27/01/17	DETAILS REVISED	L.L
2.4	20/05/15	DETAILS REVISED	L.L

MegaRail Birsta w2 N2 A W4

N2.W4 VEHICLE RESTRAINT SYSTEM
BOLTING ARRANGEMENTS

SAFEROAD®

CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

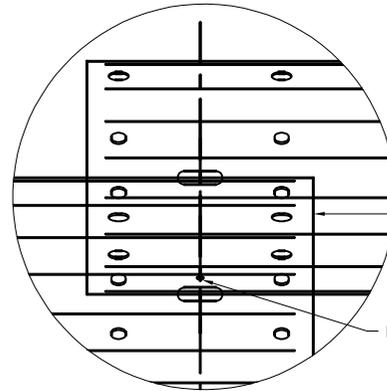
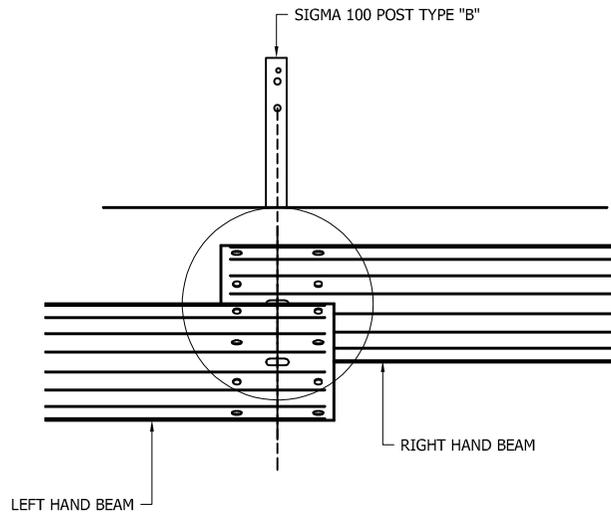
N2W4-GA-02

REV#:

04

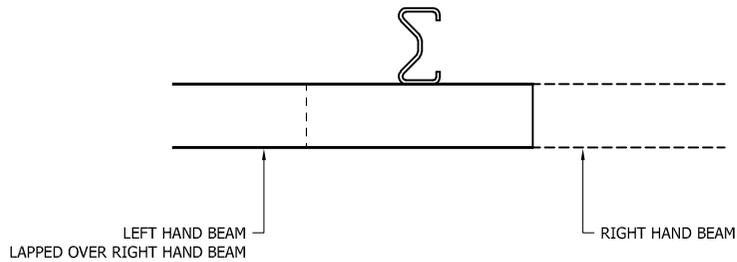
GENERAL NOTES:

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



NOTE: THIS HOLE IDENTIFIES THE REQUIRED ORIENTATION OF THE BEAM AND THE BEAM END WITH THE ADDITIONAL HOLE SHOULD BE SITED AS THE REAR BEAM AT LAP JOINTS

TRAFFIC FLOW →



REV#	DATE	DETAILS	INITIAL
04	12/02/19	TITLEBLOCK CHANGES	H.B
03	27/01/17	DETAILS REVISED	L.L
2.3	20/05/15	DETAILS REVISED	L.L

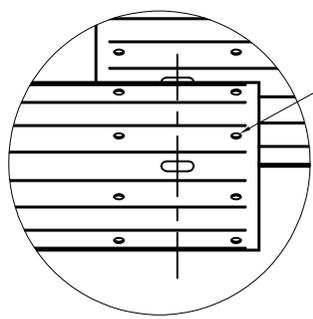
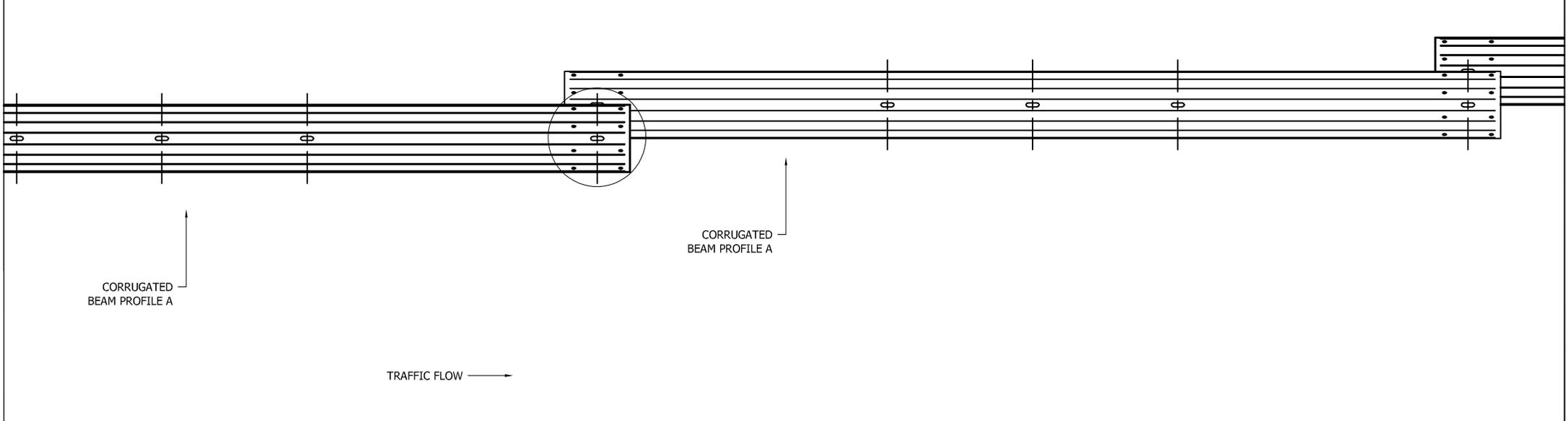
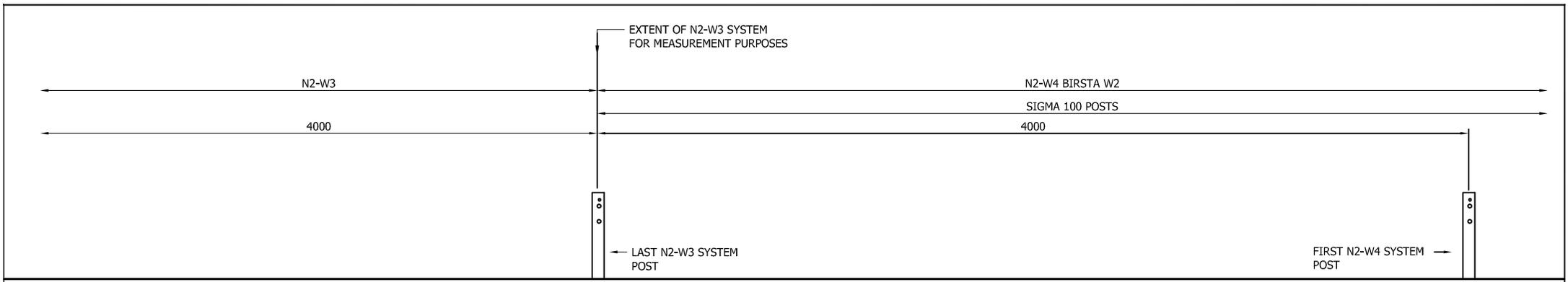
MegaRail Birsta w2 N2 A W4

N2.W4 VEHICLE RESTRAINT SYSTEM.
BEAM LAPPING DETAIL FOR W4
MEGARAIL SYSTEM

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DRAWING NUMBER:	REV#:
N2W4-GA-03	04



NOTE: BEAM ORIENTATION CIRCULAR HOLES TO BEAM APPROACH END

GENERAL NOTES:

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

MegaRail Birsta W2 N2 A W4

VEHICLE RESTRAINT SYSTEM.
N2 W4 INTO N2 W3 SYSTEM
PROGRESSION CONNECTION DETAIL

SAFEROAD®

CONCORD HOUSE,
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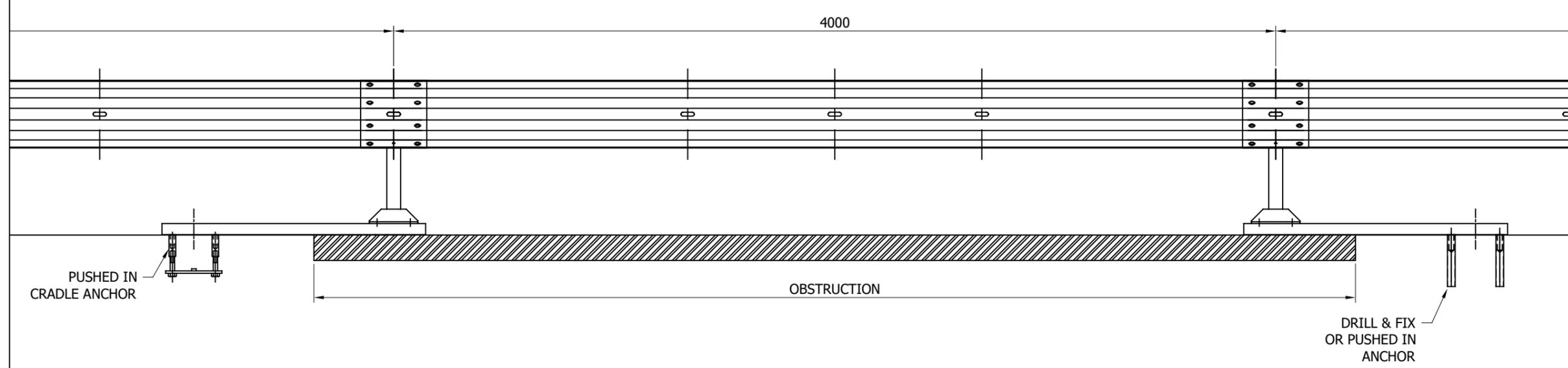
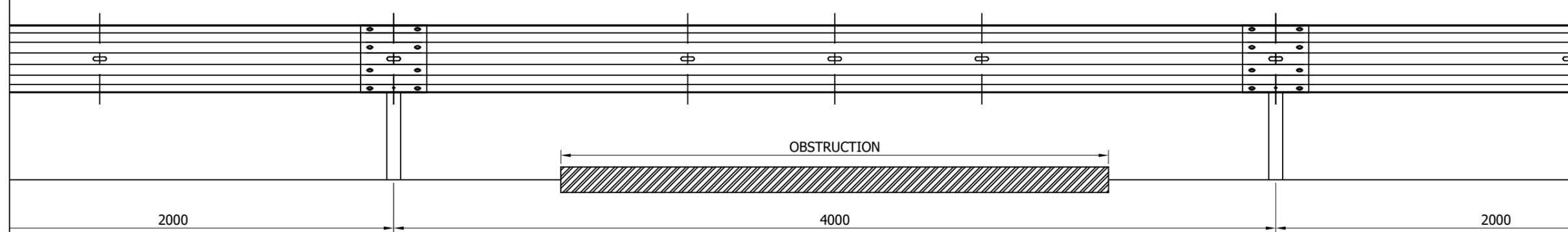
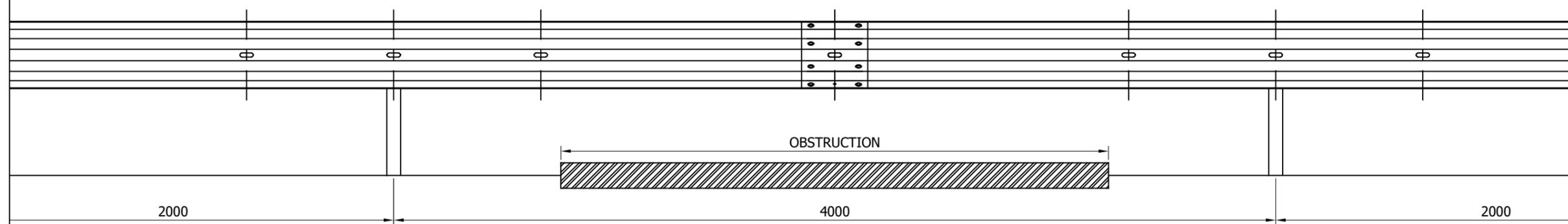
REV#	DATE	DETAILS	INITIAL
03	01/04/19	TITLEBLOCK REVISED	M.T
02	12/02/19	TITLEBLOCK CHANGES	H.B
01	10/03/17	POST DETAIL REVISED	L.L
00	27/01/17	NEW DRAWING	L.L

DRAWING NUMBER:	REV#:
N2W4-GA-20	03

** 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 N2W4-GA-00 CAN BE USED.



MegaRail Birsta W2 N2 A W4

N2.W4 VEHICLE RESTRAINT SYSTEM
DEVIATION SETTING OUT
ARRANGEMENT

SAFEROAD®

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REVn	DATE	DETAILS	INITIAL
02	25/05/22	SURFACE MOUNTED POST BASE CHANGED	A.D
01	12/02/19	TITLEBLOCK CHANGES	H.B
00	27/01/17	NEW DRAWING	L.L

DRAWING NUMBER:	REVn:
N2W4-GA-40	02



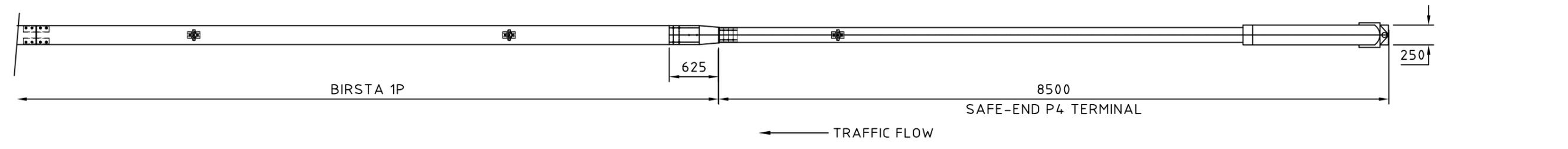
MACHINING NOTES
 MACHINE WHERE MARKED BY
 REMOVE SHARP EDGES
 TOLERANCES UNLESS
 STATED OTHERWISE
 DIMENSIONAL ± 0.015 (0.4mm)

FABRICATION NOTES
 TOLERANCES UNLESS
 STATED OTHERWISE
 ± 0.042 (1.5mm)

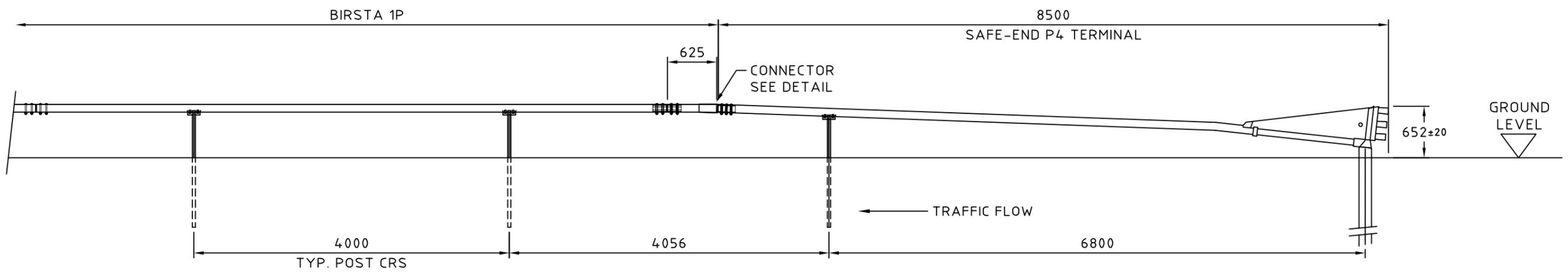
WELDING SPECIFICATION

IF IN DOUBT, ASK.

DRAWING NOT TO BE SCALED.

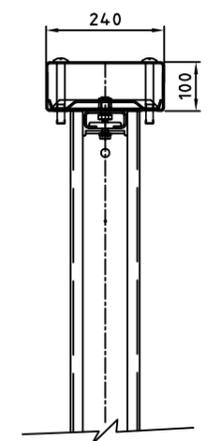


PLAN VIEW

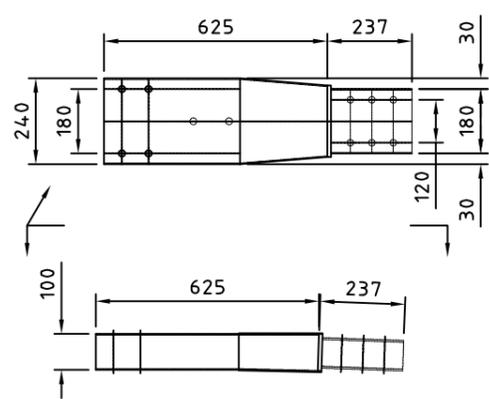


ELEVATION ON TRAFFIC FACE
 SAFE-END P4 TO BIRSTA 1P

FOR DETAILS OF CONCRETE
 FOUNDATIONS CONTACT
 SAFEROAD VRS



SECTION THROUGH BIRSTA 1P



CONNECTION PIECE DETAIL

NOTES:

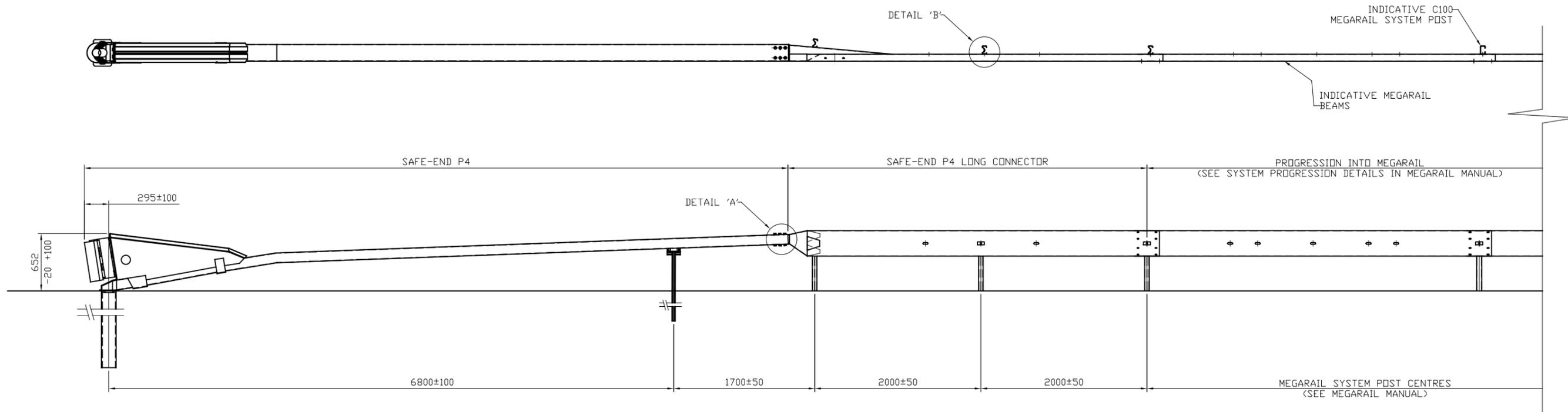
1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. FOR INSTALLATION PROCEDURES REFER TO SAFEROAD MANUAL.

REVN.	DATE	REMARKS	SIG.
-	-	-	-
-	-	-	-
-	-	-	-

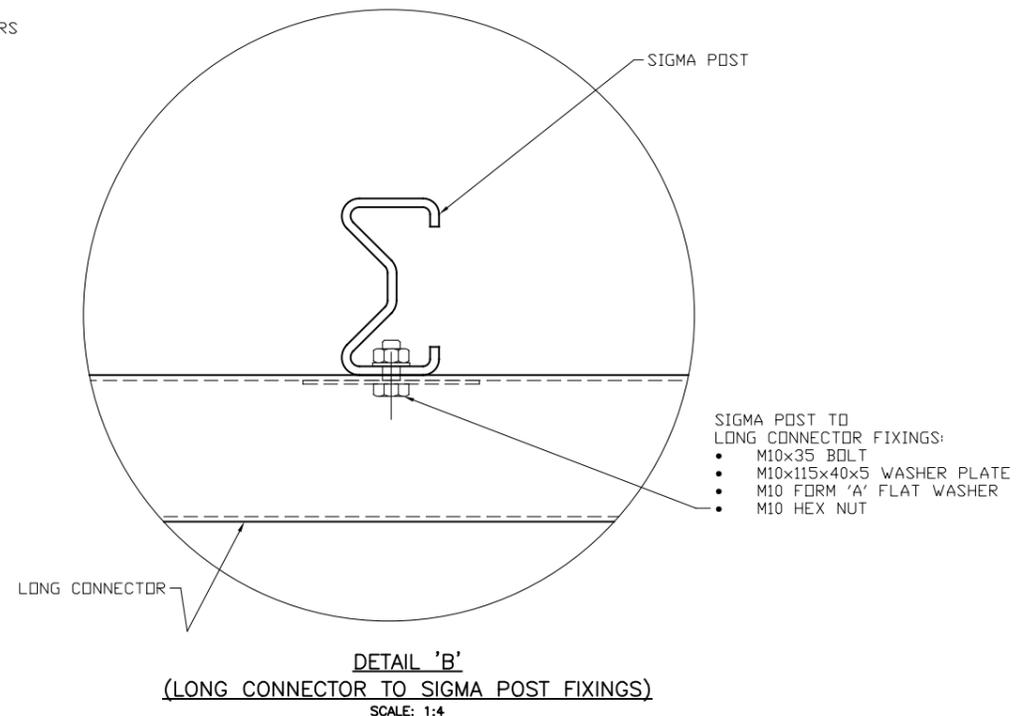
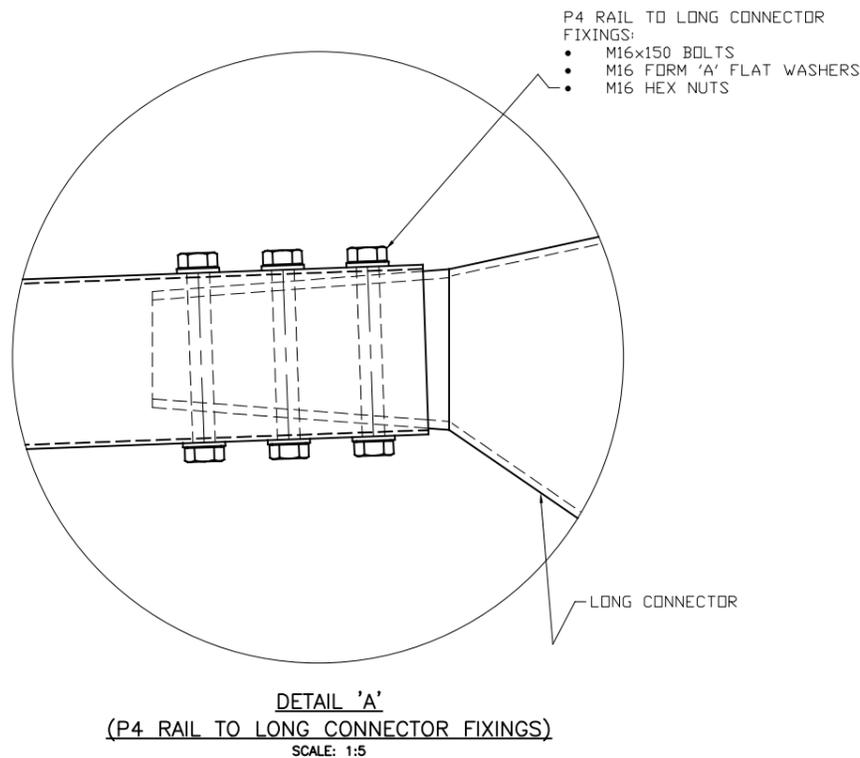
ORDER No:--	MATL:--	DRAWN:--	CHECKED:--	CHECKED QA:--
-	-	M.T	MT	-
ISSUE DATE:--	PROJECTION:--	DATE:--	SCALE:--	APPROVED:--
-		27.11.17	N.T.S	-
DRG NO:--			UK 21373	REV:--
				00

SAFEROAD®
 VRS LTD
 Concord House
 Bessemer Way
 Scunthorpe
 North Lincolnshire, DN15 8XE
 Tel: 01724 289119 Fax: 01724 281478

TITLE:-- GENERAL ARRANGEMENT & DETAIL
 SAFE-END P4 END TERMINAL TO BIRSTA 1P



GENERAL ARRANGEMENT DETAILS OF
SAFE-END P4 LONG CONNECTION TO MEGARAIL SYSTEM
SCALE: 1:50



GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. FOR INSTALLATION PROCEDURES, REFER TO SAFERDAD MANUAL

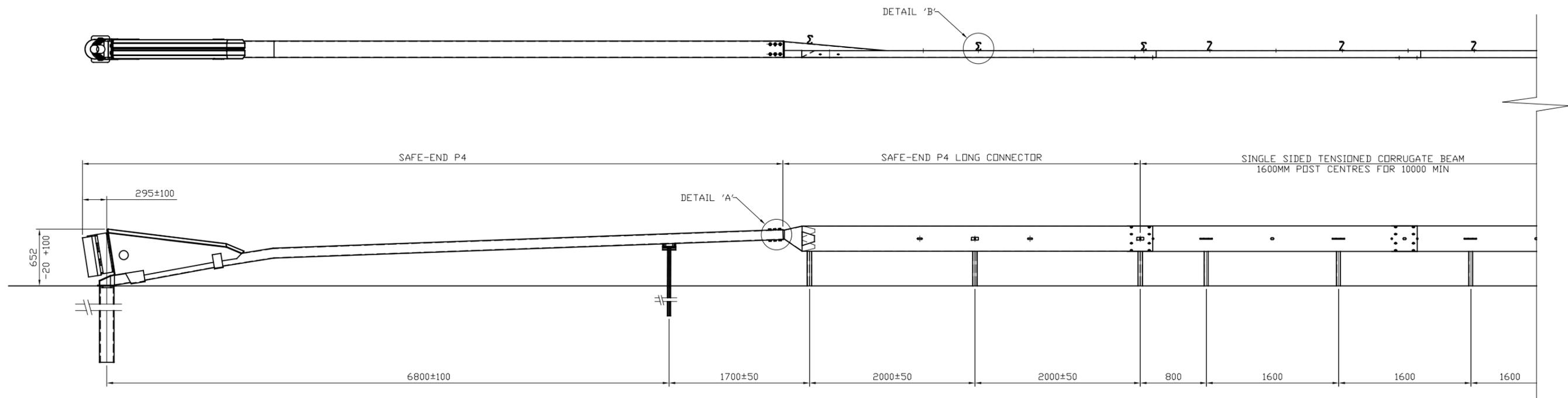
REVN.	DATE	REMARKS	SIG.
00	29/04/25	DRAWING CREATED	H.B

TITLE:-
GENERAL ARRANGEMENT
SAFE-END P4 TERMINAL
LONG CONNECTION
CONNECTION TO MEGARAIL

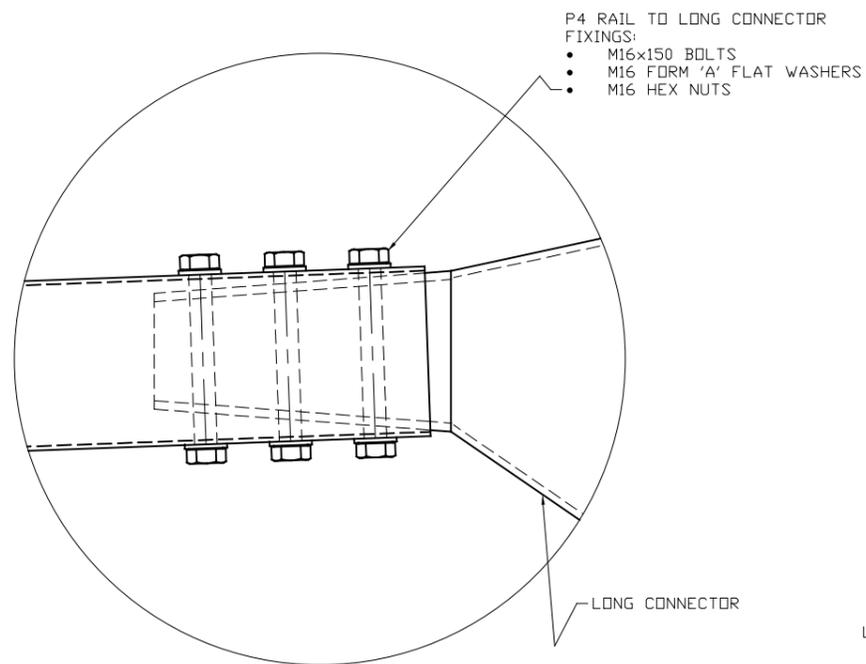
SAFEROAD

UK LTD
Concord House
Bessemer Way
Scunthorpe
North Lincolnshire, DN15 8XE
Tel: 01724 289119

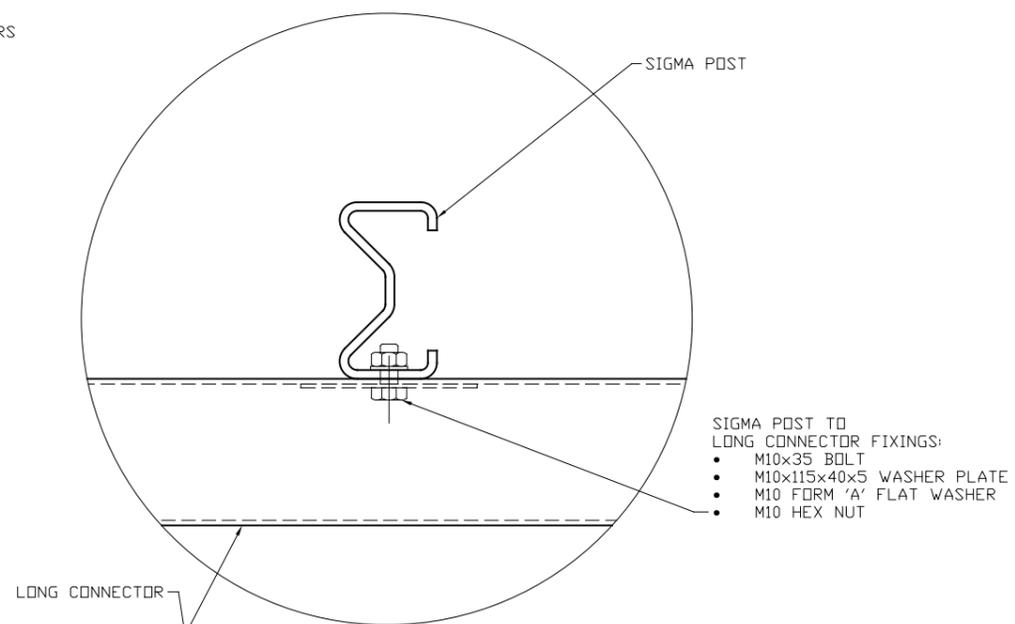
DRG NO:- UK 28448 REV:- 00



GENERAL ARRANGEMENT DETAILS OF
SAFE-END P4 LONG CONNECTION TO SINGLE SIDED TENSIONED CORRUGATE BEAM
SCALE: 1:50



DETAIL 'A'
(P4 RAIL TO LONG CONNECTOR FIXINGS)
SCALE: 1:5



DETAIL 'B'
(LONG CONNECTOR TO SIGMA POST FIXINGS)
SCALE: 1:4

GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. FOR INSTALLATION PROCEDURES, REFER TO SAFEROAD MANUAL

00	30/04/25	DRAWING CREATED	H.B
REVN.	DATE	REMARKS	SIG.

TITLE:-
GENERAL ARRANGEMENT
SAFE-END P4 TERMINAL
LONG CONNECTION

CONNECTION TO TENSIONED
CORRUGATE BEAM

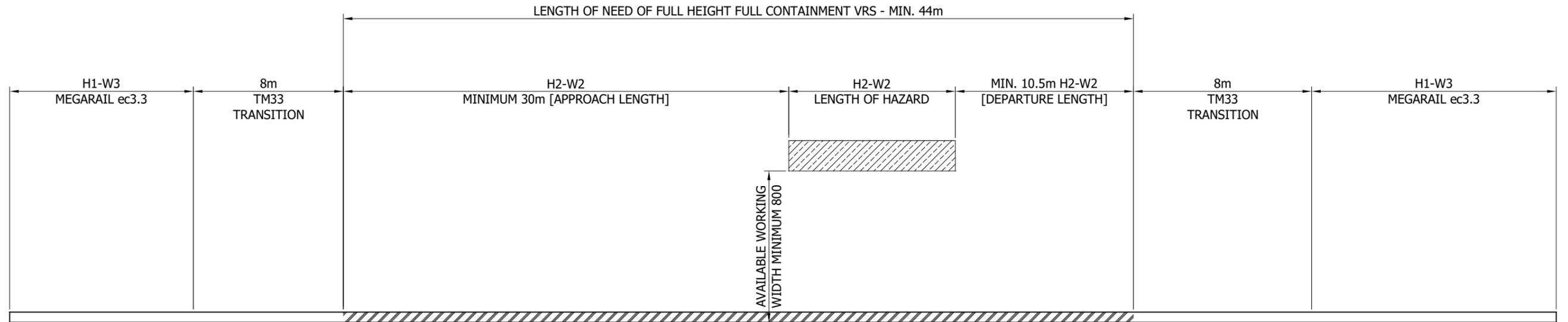


UK LTD
Concord House
Bessemer Way
Scunthorpe
North Lincolnshire, DN15 8XE
Tel: 01724 289119

DRG NO:-	UK 28455	REV:-	00
----------	----------	-------	----

GENERAL NOTES:

1. P.S.B. = POINT FROM WHERE SET-BACK IS MEASURED.
2. POSTS ARE TO BE INSTALLED WITH THE CLOSED FACE OF THE CHANNEL TOWARDS THE ON-COMING TRAFFIC.
3. MINIMUM LENGTH OF FULL HEIGHT VRS IS 44m



P.S.B.

SET BACK

TRAFFIC FLOW →

MegaRail sk H2 A W2 VI2

H2.W2 VEHICLE RESTRAINT SYSTEM
SYSTEM PROGRESSION SCHEMATIC
FOR H2 W2 PROTECTION TO HAZARD

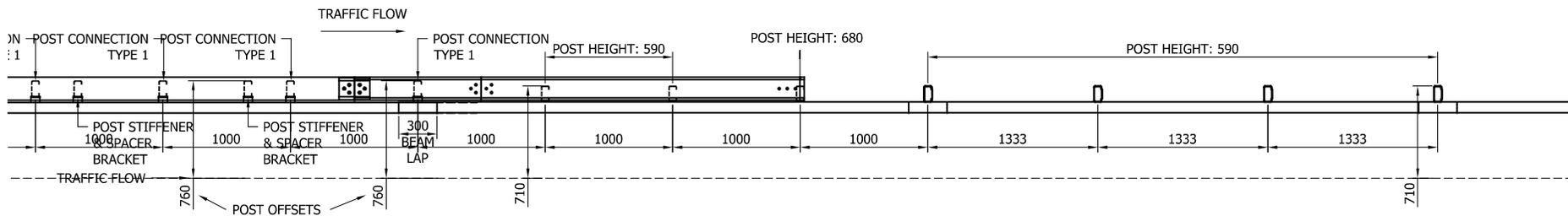
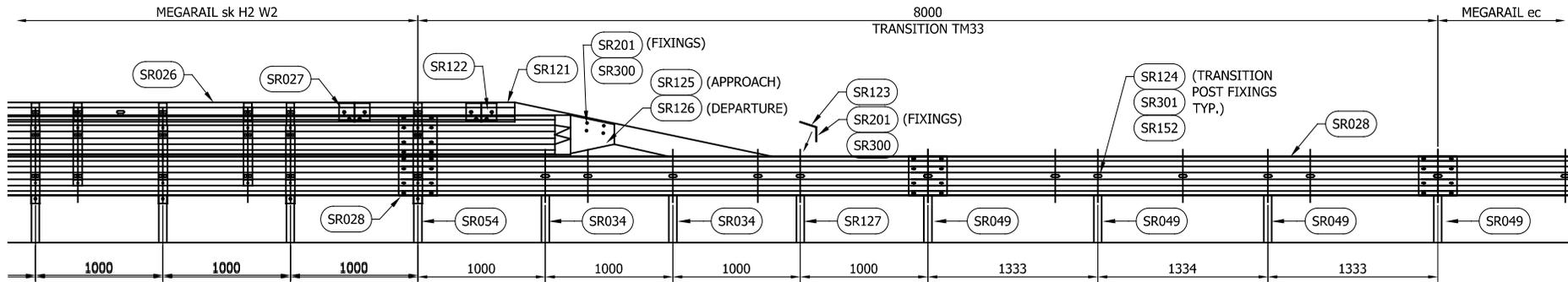
SAFEROAD®

CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119

FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

REVn	DATE	DETAILS	INITIAL
02	01.06.22	E-MAIL ADDRESS CHANGED	A.D
01	10.01.19	TITLE DETAILS REVISED	M.T
00	17.10.18	DRAWING CREATED	M.T

DRAWING NUMBER:	REVn:
H2W2-GA-10	02



POST LENGTHS DETAILED WITHIN GA & TABLE ARE EXAMPLES OF LENGTHS AVAILABLE. LENGTH/FOUNDATION VARIATIONS ARE AVAILABLE AS SHOWN ON GA-00, AS REQUIRED VIA SOIL TESTING PROCEDURE

GENERAL NOTES:

1. TO BE READ IN CONJUNCTION WITH DRG. Nos. H2W2-GA-00, H2W2-GA-01 & H2W2-GA-02.
2. DEPARTURE TRANSITION SHOWN, APPROACH SIMILAR BUT HANDED. CODES AS SHOWN.

04	11/03/24	NOTE REGARDING POST LENGTHS ADDED	H,B
03	10.01.19	TITLE DETAILS REVISED	M,T
02	28.03.17	VI ADDED	M,T
01	10.03.17	POST TYPES CORRECTED	M,T
00	08.02.17	DRAWING CREATED	M,T
REVn	DATE	DETAILS	INITIAL

MegaRail sk H2 A W2 VI2

H2.W2 VEHICLE RESTRAINT SYSTEM
TM33 TRANSITION ARRANGEMENT

SAFEROAD®

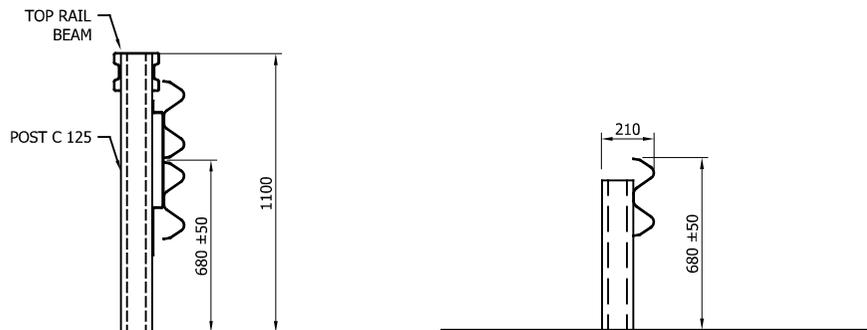
CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER: H2W2-GA-50 REVn: 04

TABLE 'A' - TRANSITION COMPONENT SCHEDULE - QTY'S 1 No. DEPARTURE TRANSITION

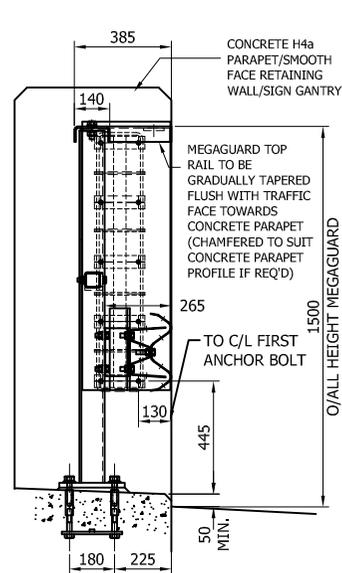
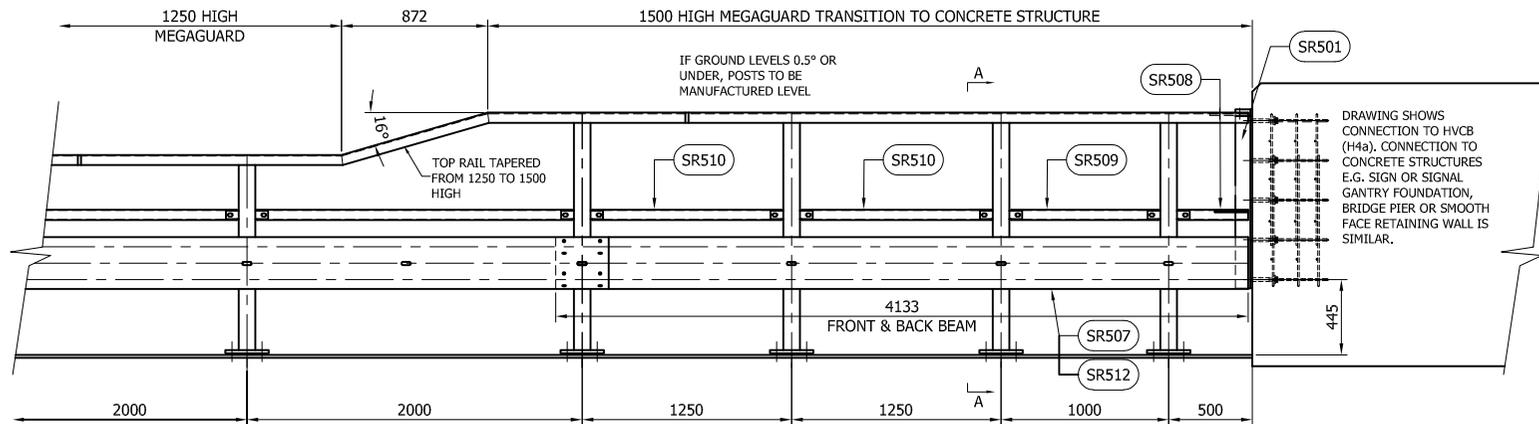
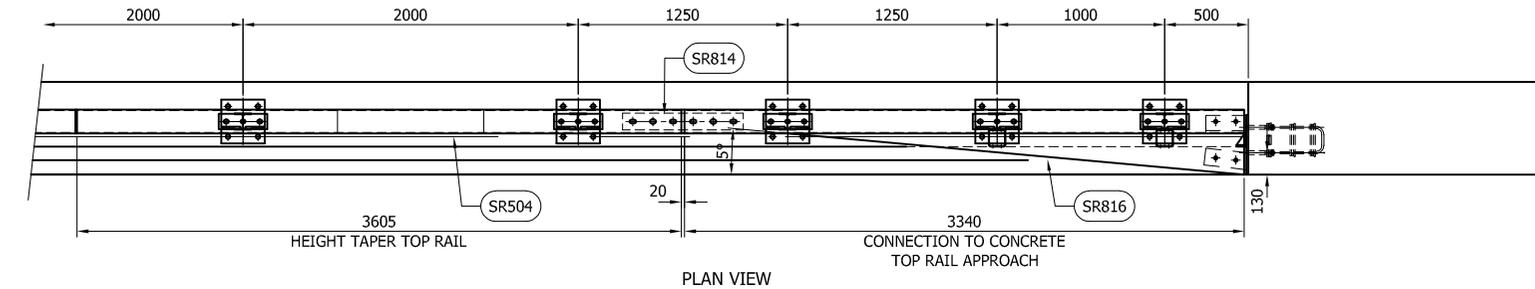
SAFEROAD PART NUMBER	DESCRIPTION	QUANTITY
SR122	BOX PROFILE JOINT	1
SR121	BOX PROFILE LOWERING	1
SR125	CONNECTION BEAM POS. D - APPROACH	0
SR126	CONNECTION BEAM POS. C - DEPARTURE	1
SR028	sk BEAM "A" PROFILE	2
SR123	ATTACHMENT ANGLE 100	1
SR049	'C' POST c/w BRACKET 1100 LONG	6
SR127	'C' POST 125 x 1100 x 5mm	1

FOR SCHEDULE OF BOLTED CONNECTIONS REFER TO DRAWING NUMBER H2W2-GA-02



GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. CONNECTION APPLICABLE TO; CONCRETE H4a PARAPET, SMOOTH FACE RETAINING WALL OR SIGN GANTRY.
3. FOR DETAILS OF STRUCTURE ANCHORAGE, ITEM V60, SEE DRG. No. SB/155, EXCEPT MATERIAL TO BE STAINLESS STEEL GRADE 1.4362.
4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET. DESIGN TBD.
5. REACTION BRACKET TO ACCOMMODATE H2/W1 MEGAGUARD SYSTEM.
6. TOTAL LENGTH OF BARRIER TO BE AS TD19/06, CHAPTER 3 TABLE 3/1.
7. HEIGHT TO BE MAXIMUM OF 1500mm. BARRIER HEIGHT CAN BE REDUCED TO SUIT A MINIMUM CONCRETE STRUCTURE HEIGHT OF 1250mm



SECTION A-A

ELEVATION ON TRAFFIC FACE APPROACH CONNECTION

APPROACH RUN LENGTH: 30.0m OVERALL INCLUDING CONNECTION TO CONCRETE AND TRANSITION TO 1250 HIGH

ARRANGEMENT SHOWN WITH BASEPLATED POSTS. CAN ALSO BE SOCKETED

00	01.02.17	DRAWING CREATED	M.T
REV#	DATE	DETAILS	INITIAL

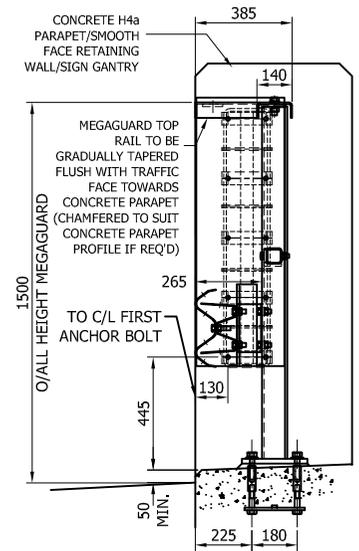
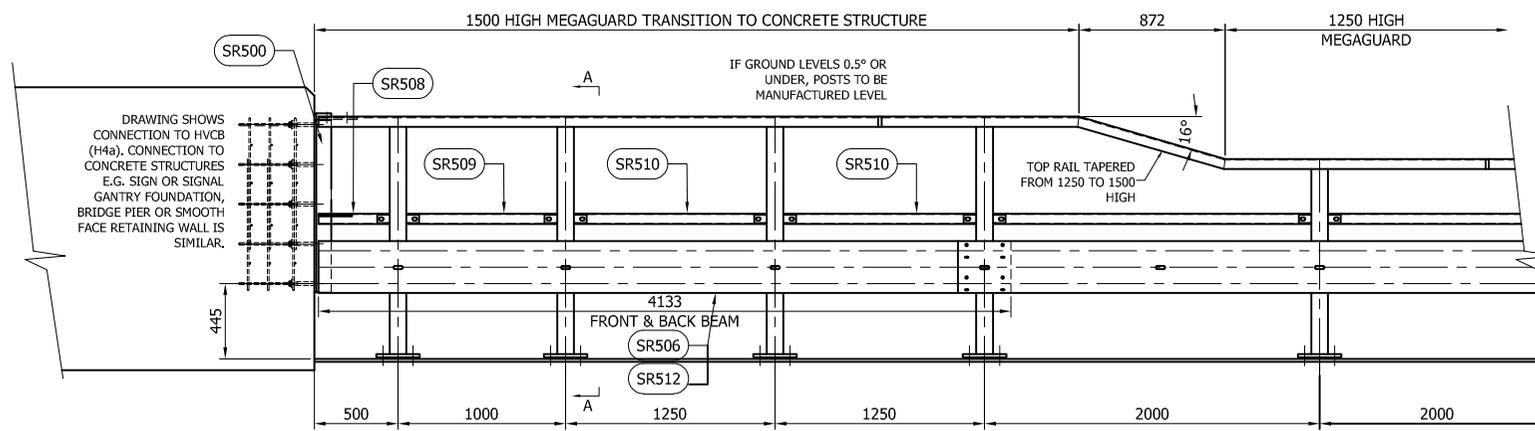
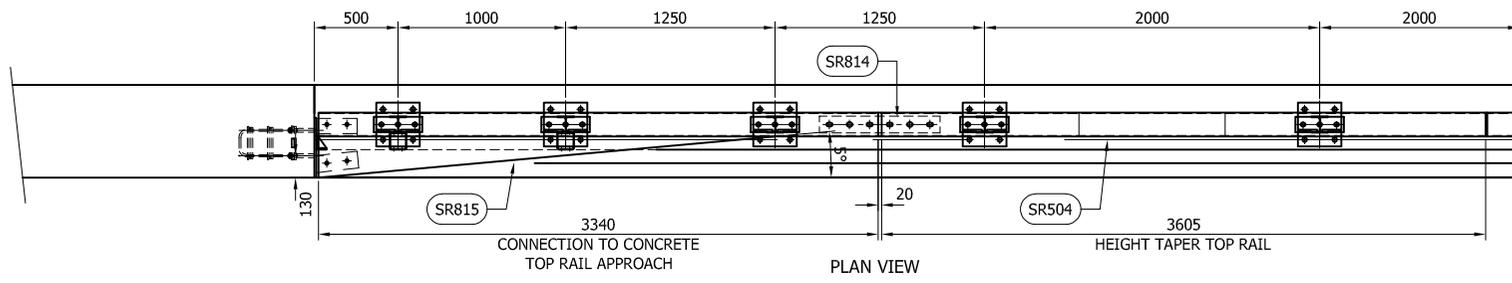
MegaGuard H2 W1

CONNECTION TO CONCRETE STRUCTURE (V60 CRADLE) APPROACH / LEFT HAND GENERAL ARRANGEMENT

SAFEROAD®

CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119
FOR TECHNICAL ASSISTANCE CONTACT
e: john.cudlipp@saferoad.co.uk

DRAWING NUMBER:	REV#:
H2W1-GA-05	00



APPROACH RUN LENGTH: 12.0m OVERALL INCLUDING CONNECTION TO CONCRETE AND TRANSITION TO 1250 HIGH

ARRANGEMENT SHOWN WITH BASEPLATED POSTS. CAN ALSO BE SOCKETED

- GENERAL NOTES:**
1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
 2. CONNECTION APPLICABLE TO; CONCRETE H4a PARAPET, SMOOTH FACE RETAINING WALL OR SIGN GANTRY.
 3. FOR DETAILS OF STRUCTURE ANCHORAGE, ITEM V60, SEE DRG. No. SB/155, EXCEPT MATERIAL TO BE STAINLESS STEEL GRADE 1.4362.
 4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET. DESIGN TBD.
 5. REACTION BRACKET TO ACCOMMODATE H2/W1 MEGAGUARD SYSTEM.
 6. TOTAL LENGTH OF BARRIER TO BE AS TD19/06, CHAPTER 3 TABLE 3/1.
 7. HEIGHT TO BE MAXIMUM OF 1500mm. BARRIER HEIGHT CAN BE REDUCED TO SUIT A MINIMUM CONCRETE STRUCTURE HEIGHT OF 1250mm.

00	01.02.17	DRAWING CREATED	M.T
REV#	DATE	DETAILS	INITIAL

MegaGuard H2 W1

CONNECTION TO CONCRETE STRUCTURE (V60 CRADLE) DEPARTURE / RIGHT HAND GENERAL ARRANGEMENT

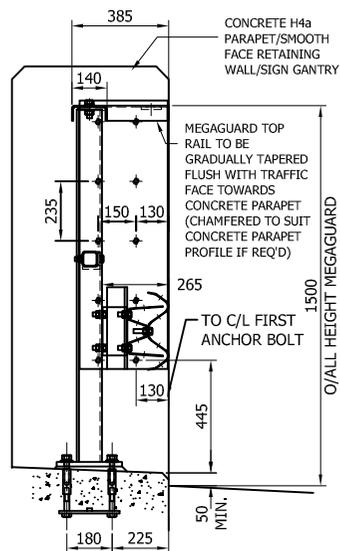
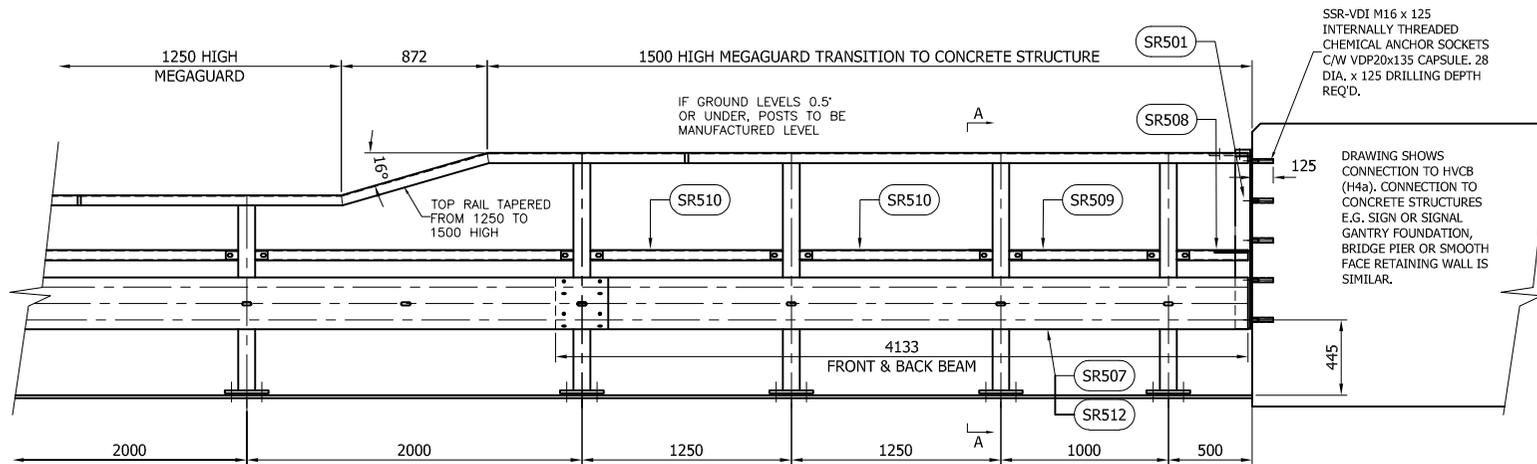
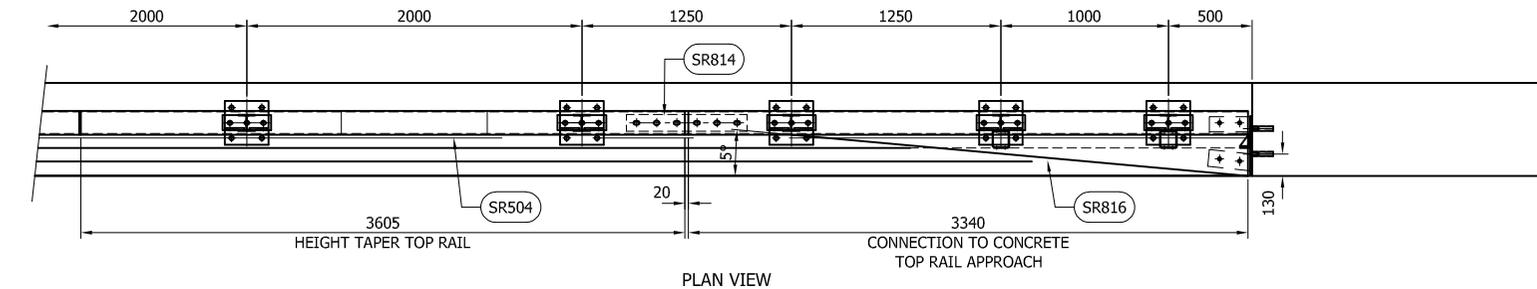
SAFEROAD®

CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119
e: john.cudlipp@saferoad.co.uk

DRAWING NUMBER:	REV#:
H2W1-GA-06	00

GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. CONNECTION APPLICABLE TO; CONCRETE H4a PARAPET, SMOOTH FACE RETAINING WALL OR SIGN GANTRY.
3. ANCHOR IN CONCRETE STRUCTURE TO BE SSR-VDI M16 x 125 INTERNALLY THREADED ANCHOR C/W VDP20 x 135 CAPSULE. 28 DIA. x 125mm DRILLING DEPTH REQ'D. 10 No. ANCHORS REQ'D PER CONNECTION.
4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET. DESIGN TBD.
5. REACTION BRACKET TO ACCOMMODATE H2/W1 MEGAGUARD SYSTEM.
6. TOTAL LENGTH OF BARRIER TO BE AS TD19/06, CHAPTER 3 TABLE 3/1.
7. HEIGHT TO BE MAXIMUM OF 1500mm. BARRIER HEIGHT CAN BE REDUCED TO SUIT A MINIMUM CONCRETE STRUCTURE HEIGHT OF 1250mm.



APPROACH RUN LENGTH: 30.0m OVERALL INCLUDING CONNECTION TO CONCRETE AND TRANSITION TO 1250 HIGH

ARRANGEMENT SHOWN WITH BASEPLATED POSTS. CAN ALSO BE SOCKETED

00	01.02.17	DRAWING CREATED	M.T
REV#	DATE	DETAILS	INITIAL

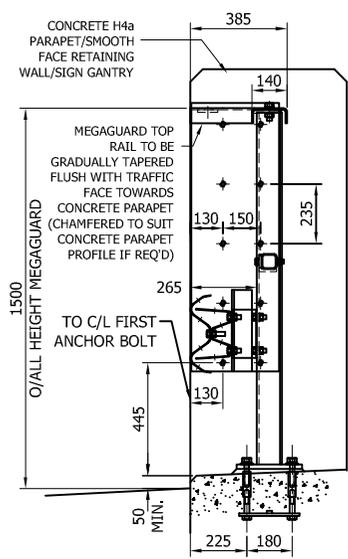
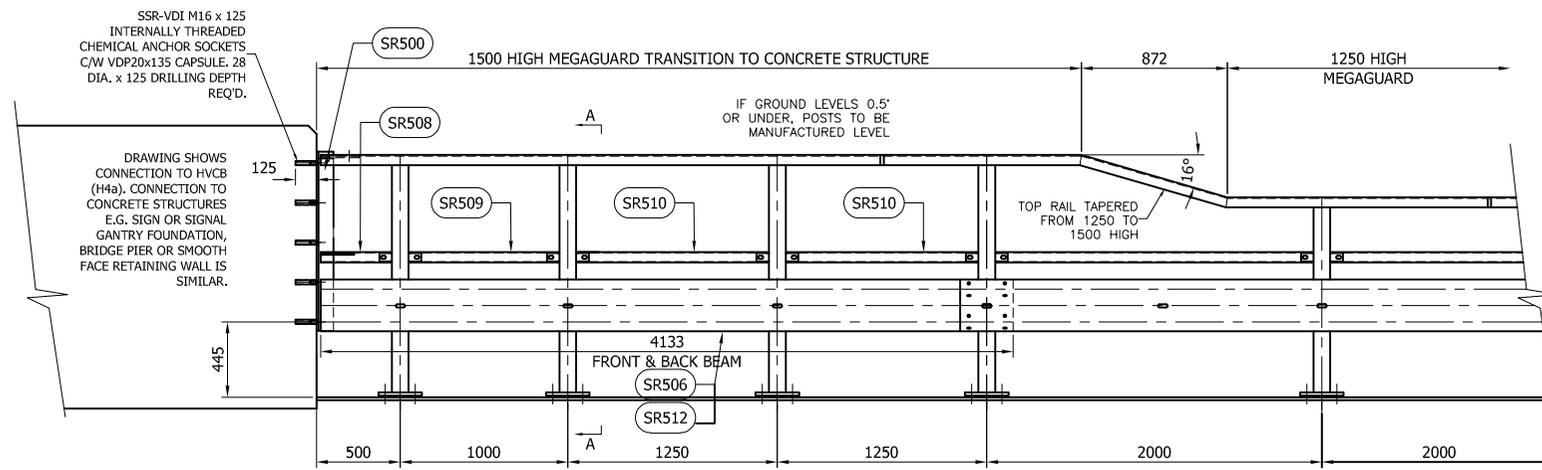
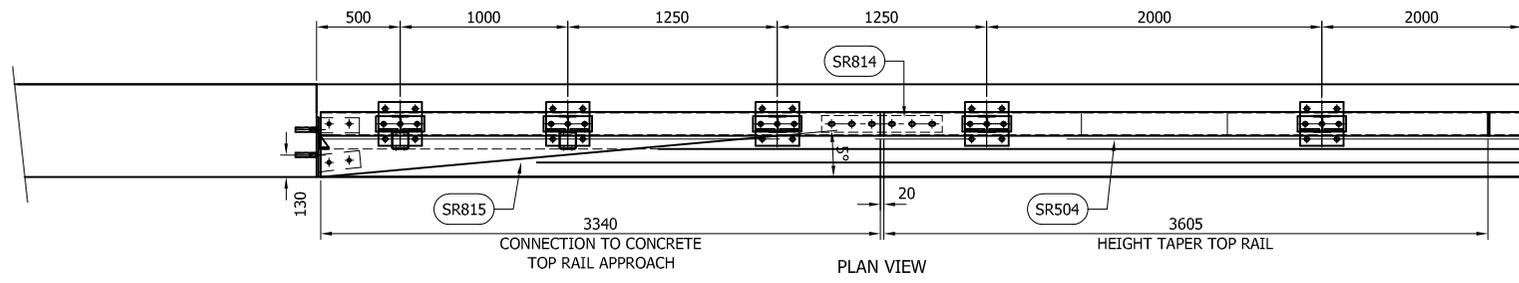
MegaGuard H2 W1

CONNECTION TO CONCRETE STRUCTURE (DRILL & FIX) APPROACH / LEFT HAND GENERAL ARRANGEMENT

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DRAWING NUMBER:	REV#:
H2W1-GA-07	00



APPROACH RUN LENGTH: 12.0m OVERALL INCLUDING CONNECTION TO CONCRETE AND TRANSITION TO 1250 HIGH

ARRANGEMENT SHOWN WITH BASEPLATED POSTS. CAN ALSO BE SOCKETED

GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. CONNECTION APPLICABLE TO; CONCRETE H4a PARAPET, SMOOTH FACE RETAINING WALL OR SIGN GANTRY.
3. ANCHOR IN CONCRETE STRUCTURE TO BE SSR-VDI M16 x 125 INTERNALLY THREADED ANCHOR C/W VDP20 x 135 CAPSULE. 28 DIA. x 125mm DRILLING DEPTH REQ'D. 10 No. ANCHORS REQ'D PER CONNECTION.
4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET. DESIGN TBD.
5. REACTION BRACKET TO ACCOMMODATE H2/W1 MEGAGUARD SYSTEM.
6. TOTAL LENGTH OF BARRIER TO BE AS TD19/06, CHAPTER 3 TABLE 3/1.
7. HEIGHT TO BE MAXIMUM OF 1500mm. BARRIER HEIGHT CAN BE REDUCED TO SUIT A MINIMUM CONCRETE STRUCTURE HEIGHT OF 1250mm.

00	01.02.17	DRAWING CREATED	M.T
REV#	DATE	DETAILS	INITIAL

MegaGuard H2 W1

CONNECTION TO CONCRETE STRUCTURE (DRILL & FIX)
DEPARTURE / RIGHT HAND
GENERAL ARRANGEMENT

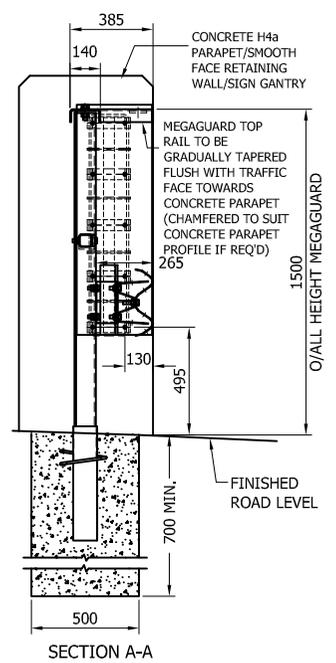
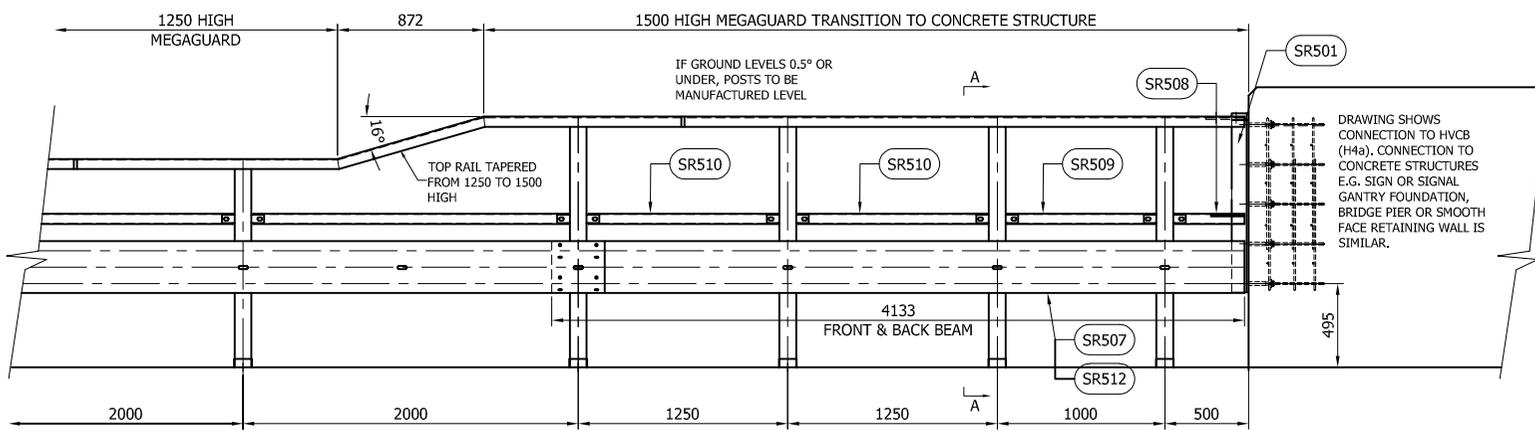
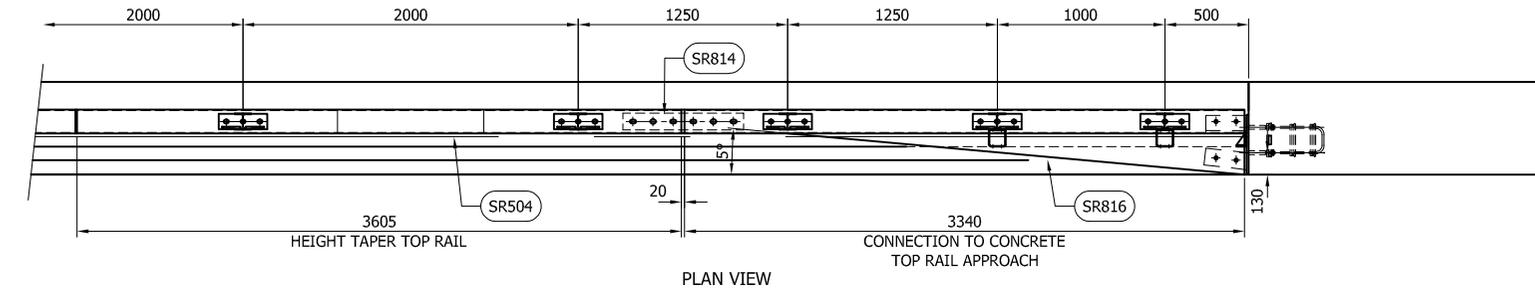
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CONCORD HOUSE,
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FOR TECHNICAL ASSISTANCE CONTACT
e: john.cudlipp@saferoad.co.uk

DRAWING NUMBER:	REV#:
H2W1-GA-08	00

GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. CONNECTION APPLICABLE TO; CONCRETE H4a PARAPET, SMOOTH FACE RETAINING WALL OR SIGN GANTRY.
3. FOR DETAILS OF STRUCTURE ANCHORAGE, ITEM V60, SEE DRG. No. SB/155, EXCEPT MATERIAL TO BE STAINLESS STEEL GRADE 1.4362.
4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET. DESIGN TBD.
5. REACTION BRACKET TO ACCOMMODATE H2/W1 MEGAGUARD SYSTEM.
6. TOTAL LENGTH OF BARRIER TO BE AS TD19/06, CHAPTER 3 TABLE 3/1.
7. HEIGHT TO BE MAXIMUM OF 1500mm. BARRIER HEIGHT CAN BE REDUCED TO SUIT A MINIMUM CONCRETE STRUCTURE HEIGHT OF 1250mm



APPROACH RUN LENGTH: 30.0m OVERALL INCLUDING CONNECTION TO CONCRETE AND TRANSITION TO 1250 HIGH

ARRANGEMENT SHOWN WITH SOCKETED POSTS. CAN ALSO BE BASEPLATED

00	06.02.19	DRAWING CREATED	M.T
REV#	DATE	DETAILS	INITIAL

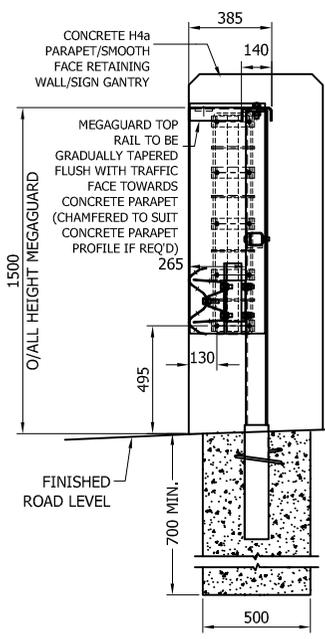
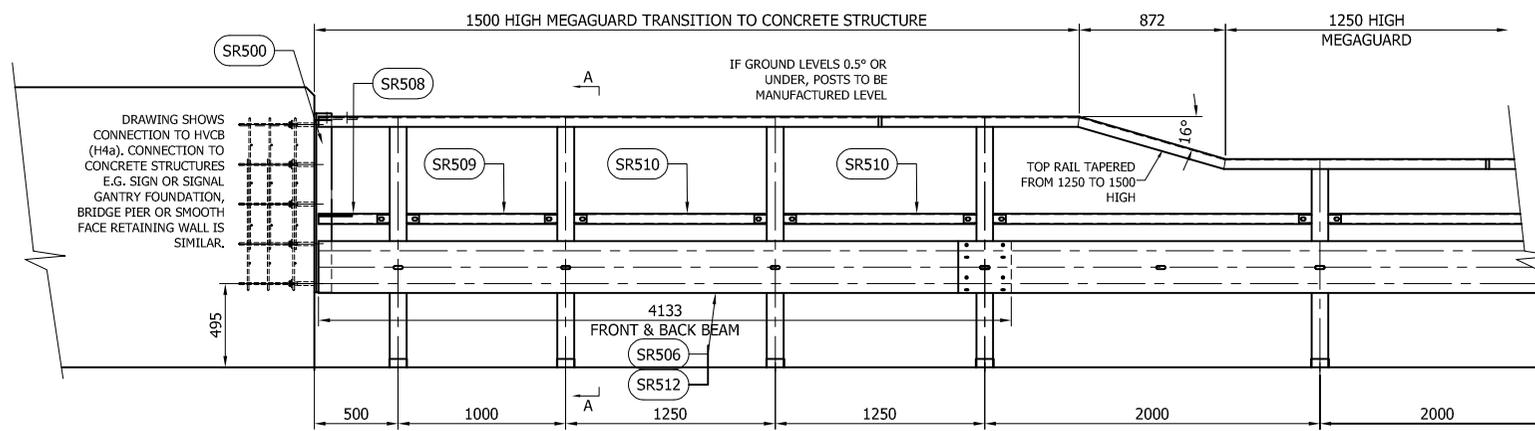
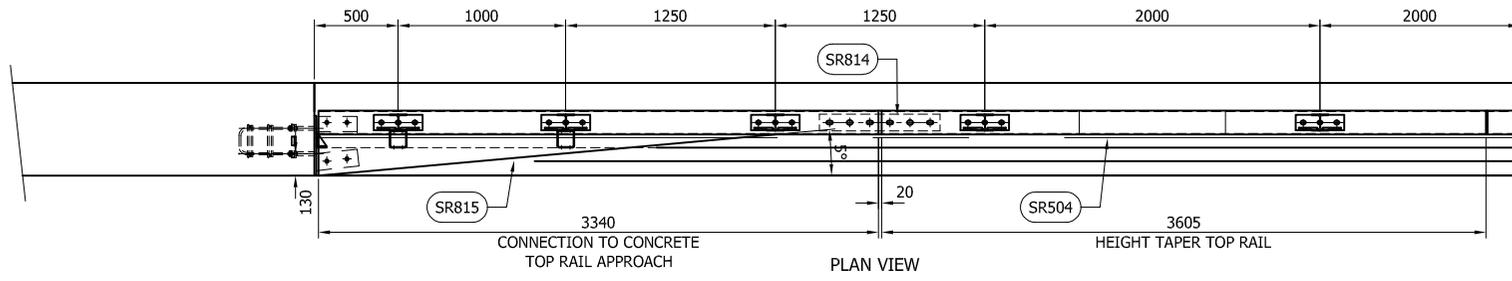
MegaGuard H2 W1

CONNECTION TO CONCRETE STRUCTURE (V60 CRADLE) APPROACH / LEFT HAND SOCKETED GENERAL ARRANGEMENT

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DRAWING NUMBER:	REV#:
H2W1-GA-12	00



APPROACH RUN LENGTH: 12.0m OVERALL INCLUDING CONNECTION TO CONCRETE AND TRANSITION TO 1250 HIGH

ARRANGEMENT SHOWN WITH SOCKETED POSTS. CAN ALSO BE BASEPLATED

- GENERAL NOTES:**
1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
 2. CONNECTION APPLICABLE TO; CONCRETE H4a PARAPET, SMOOTH FACE RETAINING WALL OR SIGN GANTRY.
 3. FOR DETAILS OF STRUCTURE ANCHORAGE, ITEM V60, SEE DRG. No. SB/155, EXCEPT MATERIAL TO BE STAINLESS STEEL GRADE 1.4362.
 4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET. DESIGN TBD.
 5. REACTION BRACKET TO ACCOMMODATE H2/W1 MEGAGUARD SYSTEM.
 6. TOTAL LENGTH OF BARRIER TO BE AS TD19/06, CHAPTER 3 TABLE 3/1.
 7. HEIGHT TO BE MAXIMUM OF 1500mm. BARRIER HEIGHT CAN BE REDUCED TO SUIT A MINIMUM CONCRETE STRUCTURE HEIGHT OF 1250mm.

00	06.02.19	DRAWING CREATED	M.T
REV#	DATE	DETAILS	INITIAL

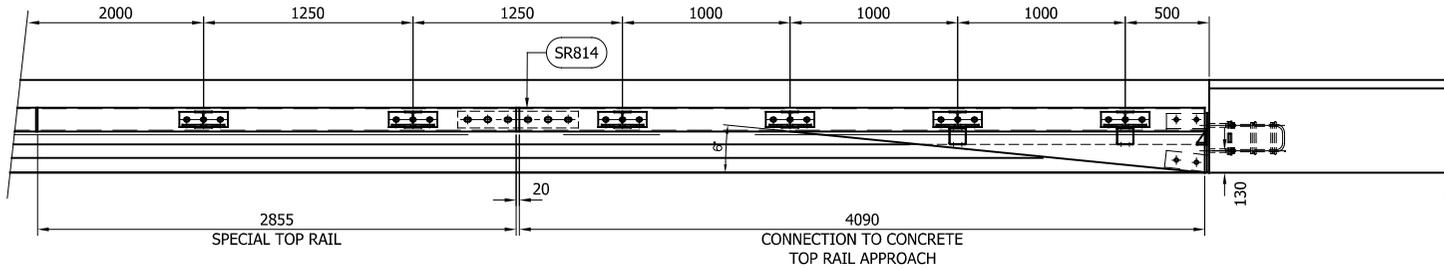
MegaGuard H2 W1

CONNECTION TO CONCRETE STRUCTURE (V60 CRADLE) DEPARTURE / RIGHT HAND SOCKETED GENERAL ARRANGEMENT

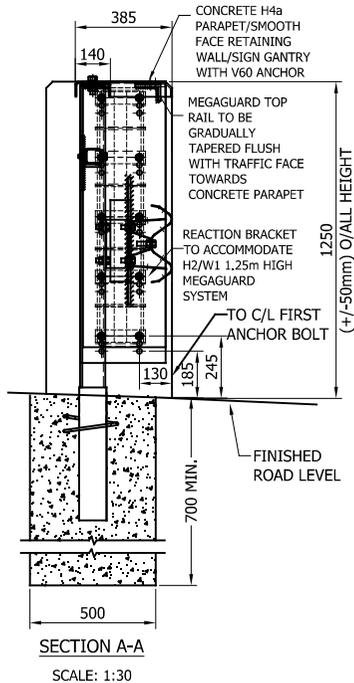
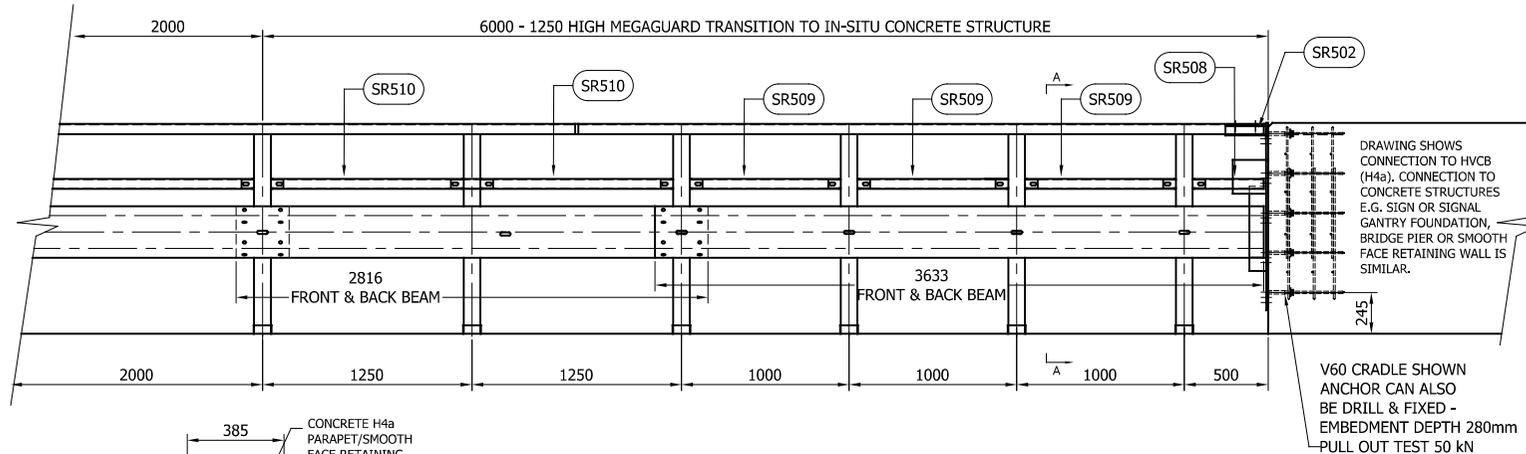


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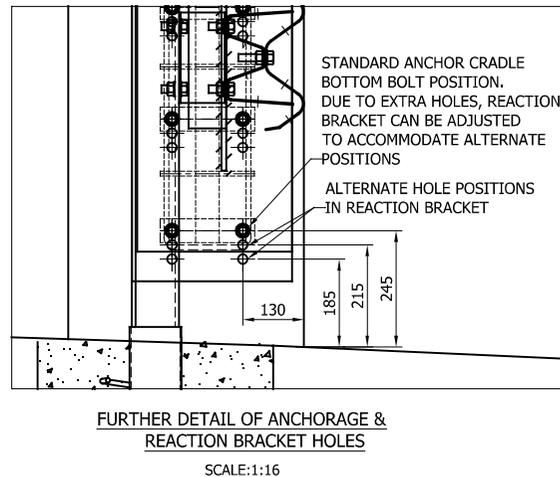
DRAWING NUMBER:	REV#:
H2W1-GA-13	00



NO DEVIATIONS IN THIS TRANSITION SECTION
EITHER APPROACH OR DEPARTURE



MEGAGUARD ARRANGEMENT SHOWN WITH SOCKETED
POSTS. POSTS CAN ALSO BE BASEPLATED



GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. CONNECTION APPLICABLE TO; CONCRETE H4a PARAPET, SMOOTH FACE RETAINING WALL OR SIGN GANTRY.
3. FOR DETAILS OF STRUCTURE ANCHORAGE, ITEM V60, SEE DRG. No. SB/155, EXCEPT MATERIAL TO BE STAINLESS STEEL GRADE 1.4362.
4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET. DESIGN TBD.
5. TOTAL LENGTH OF BARRIER TO BE AS CD377 & LENGTH OF NEED DRAWING MR-GA-043.
6. ARRANGEMENT & REACTION BRACKET SUITABLE FOR 1.25m MIN. O/ALL HEIGHT MEGAGUARD SYSTEM.

REVn	DATE	DETAILS	INITIAL
08	21.01.25	ANCHOR DEPTH UPDATED	H.B
07	29.11.24	LOGO UPDATED	H.B
06	13.07.22	SECTION A-A NOTE CHANGED	A.D
05	22.02.22	NOTES ADDED	M.T
04	26.07.21	SECTION A-A & DESCRIPTION BOX REVISED	A.D
03	25.05.21	DETAILS REVISED	M.T
02	22.02.21	REACTION BRACKET REVISED	M.T
01	30.04.20	REVISED TO NEW POST CRS	M.T
00	06.02.19	DRAWING CREATED	M.T

MegaGuard H2 W1 VI 1

1.25m CONNECTION TO CONCRETE
STRUCTURE (V60 CRADLE)
APPROACH / LEFT HAND
SOCKETED GENERAL ARRANGEMENT

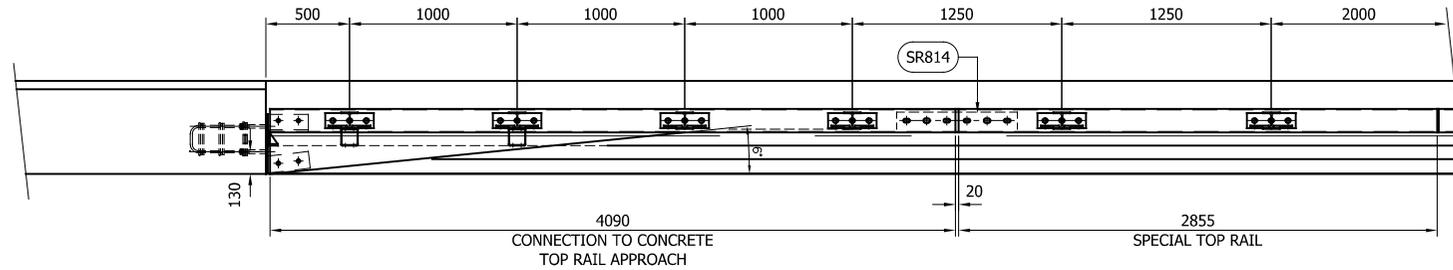


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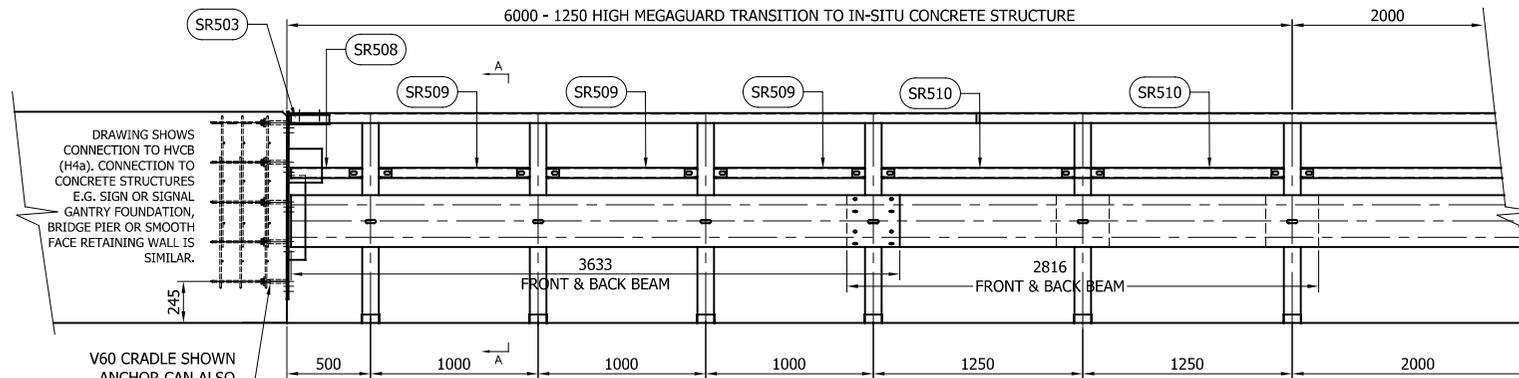
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GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. CONNECTION APPLICABLE TO; CONCRETE H4a PARAPET, SMOOTH FACE RETAINING WALL OR SIGN GANTRY.
3. FOR DETAILS OF STRUCTURE ANCHORAGE, ITEM V60, SEE DRG. No. SB/155, EXCEPT MATERIAL TO BE STAINLESS STEEL GRADE 1.4362.
4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET. DESIGN TBD.
5. TOTAL LENGTH OF BARRIER TO BE AS CD377 & LENGTH OF NEED DRAWING MR-GA-043.
6. ARRANGEMENT & REACTION BRACKET SUITABLE FOR 1.25m MIN. O/ALL HEIGHT MEGAGUARD SYSTEM.



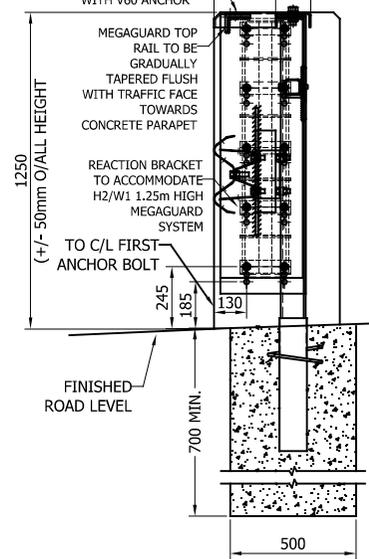
NO DEVIATIONS IN THIS TRANSITION SECTION
EITHER APPROACH OR DEPARTURE



DRAWING SHOWS CONNECTION TO HVCB (H4a). CONNECTION TO CONCRETE STRUCTURES E.G. SIGN OR SIGNAL GANTRY FOUNDATION, BRIDGE PIER OR SMOOTH FACE RETAINING WALL IS SIMILAR.

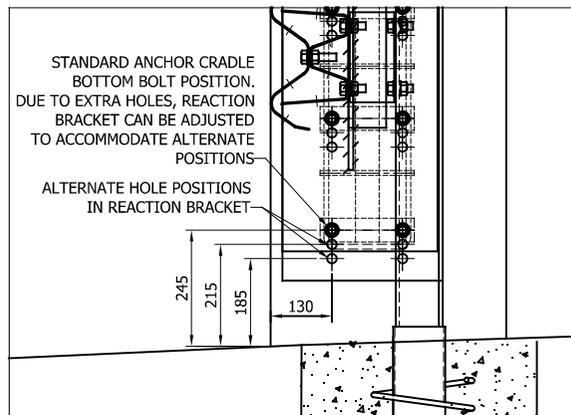
V60 CRADLE SHOWN ANCHOR CAN ALSO BE DRILL & FIXED - EMBEDMENT DEPTH 280mm PULL OUT TEST 50 kN

CONCRETE H4a PARAPET/SMOOTH FACE RETAINING WALL/SIGN GANTRY WITH V60 ANCHOR



SECTION A-A
SCALE: 1:30

MEGAGUARD ARRANGEMENT SHOWN WITH SOCKETED POSTS. POSTS CAN ALSO BE BASEPLATED



FURTHER DETAIL OF ANCHORAGE & REACTION BRACKET HOLES

SCALE:1:16

REVn	DATE	DETAILS	INITIAL
10	21.01.25	ANCHOR DEPTH UPDATED	H.B
09	29.11.24	LOGO UPDATED	H.B
08	21.07.22	DIMENSION CHANGED	A.D
07	13.07.22	SECTION A-A NOTE CHANGED	A.D
06	22.02.22	NOTES ADDED	M.T
05	26.07.21	SECTION A-A REVISED	A.D
04	11.06.21	DETAILS REVISED	M.T
03	25.05.21	DETAILS REVISED	M.T
02	22.02.21	REACTION BRACKET REVISED	M.T
01	30.04.20	REVISED TO NEW POST CRS	M.T
00	06.02.19	DRAWING CREATED	M.T

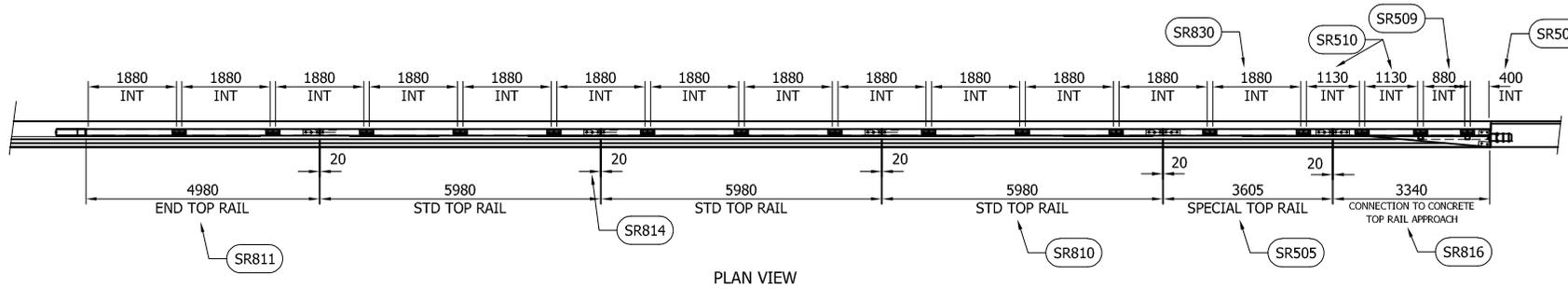
MegaGuard H2 W1 VI 1

1.25m CONNECTION TO CONCRETE STRUCTURE (V60 CRADLE) DEPARTURE / RIGHT HAND SOCKETED GENERAL ARRANGEMENT

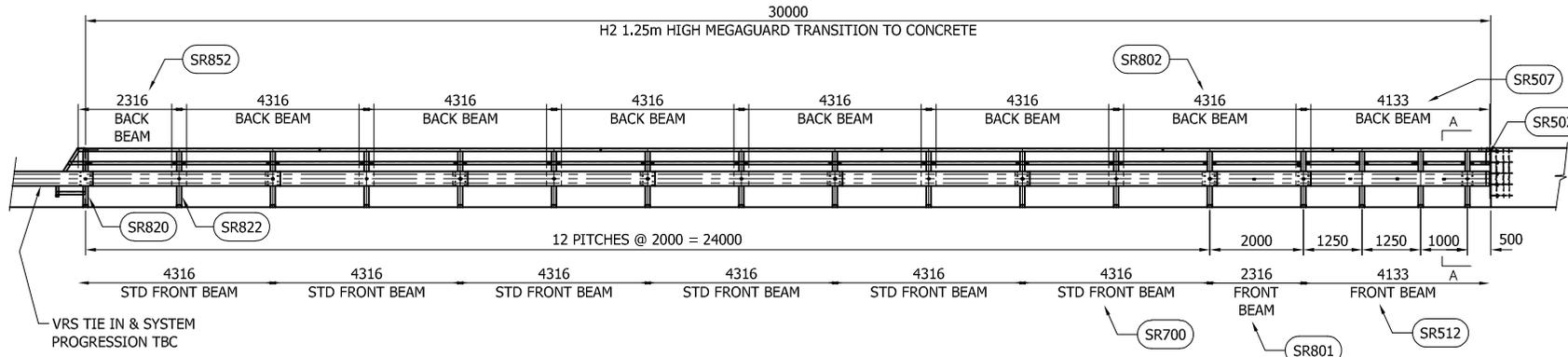


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DRAWING NUMBER: H2W1-GA-15
REVn: 10

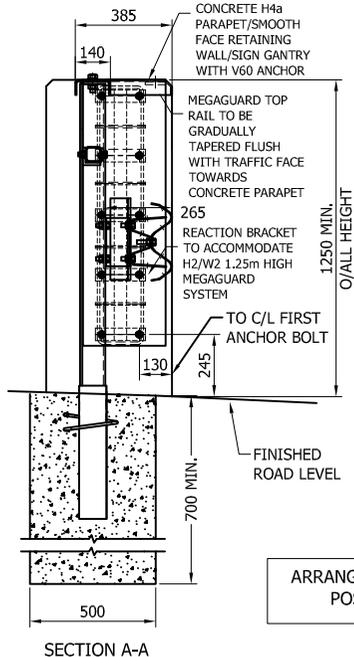


PLAN VIEW



ELEVATION ON TRAFFIC FACE APPROACH CONNECTION

VRS TIE IN & SYSTEM PROGRESSION TBC



ARRANGEMENT SHOWN WITH SOCKETED POSTS. CAN ALSO BE BASEPLATED

GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. CONNECTION APPLICABLE TO; CONCRETE H4a PARAPET, SMOOTH FACE RETAINING WALL OR SIGN GANTRY.
3. FOR DETAILS OF STRUCTURE ANCHORAGE, ITEM V60, SEE DRG. No. SB/155.
4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET. DESIGN TBD.
5. TOTAL LENGTH OF BARRIER TO BE AS TD19/06, CHAPTER 3 TABLE 3/1.
6. ARRANGEMENT & REACTION BRACKET SUITABLE FOR 1.25m MIN. O/ALL HEIGHT MEGAGUARD SYSTEM.

FULL REQUIRED QUANTITY PER APPROACH/LEFT HAND 30.0m RUN		
CODE	DESCRIPTION	QTY
SR502	REACTION BRACKET APPROACH FOR 1250mm HIGH	1
SR822	INTERMEDIATE SOCKETED POST 1734mm LG	16
SR820	LEFT HAND END SOCKETED POST 1734mm LG	1
SR825	MEGAGUARD POST SOCKET 525mm LG	17
SR100	REINFORCING RING (ITEM A21)	17
SR831	SPACER BRACKET 180mm LG	17
SR508	INTERMEDIATE RAIL 400mm LG	1
SR509	INTERMEDIATE RAIL 880mm LG	1
SR510	INTERMEDIATE RAIL 1130mm LG	2
SR830	INTERMEDIATE RAIL 1880mm LG	13
SR816	TOP RAIL TO CONCRETE APPROACH 3340mm LG	1
SR505	SPECIAL TOP RAIL 3605mm LG	1
SR810	STANDARD TOP RAIL 5980mm LG	3
SR811	END TOP RAIL 4980mm LG	1
SR507	BACK BEAM TO CONCRETE APPROACH 4133mm LG	1
SR802	STANDARD BACK BEAM 4316mm LG	6
SR852	BACK BEAM 2316mm LG	1
SR512	FRONT BEAM TO CONCRETE 4133mm LG	1
SR801	FRONT BEAM 2316mm LG	1
SR700	STANDARD FRONT BEAM (VIK) 4316mm LG	6

REV#	DATE	DETAILS	INITIAL
01	07.05.19	NOTES REVISED	M.T
00	18.02.19	DRAWING CREATED	M.T

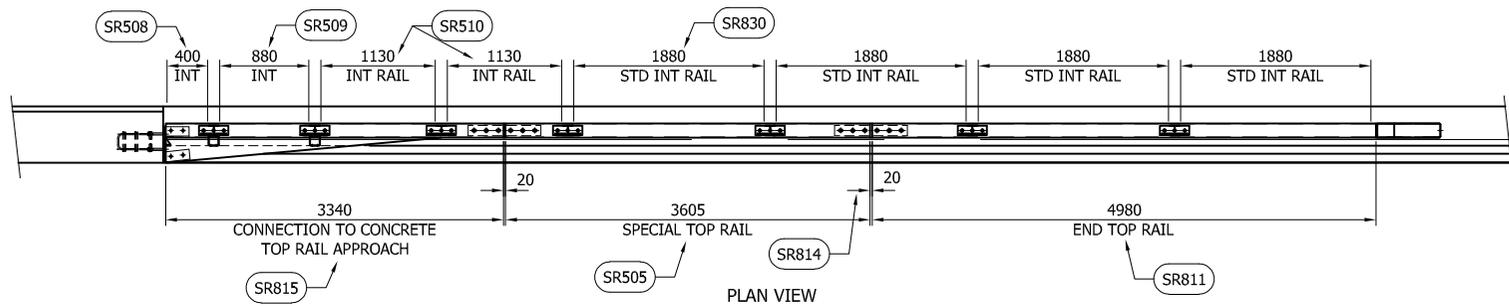
MegaGuard H2 W1

1.25m CONNECTION TO CONCRETE STRUCTURE (V60 CRADLE) APPROACH / LEFT HAND SOCKETED FULL 30.0m GENERAL ARRANGEMENT

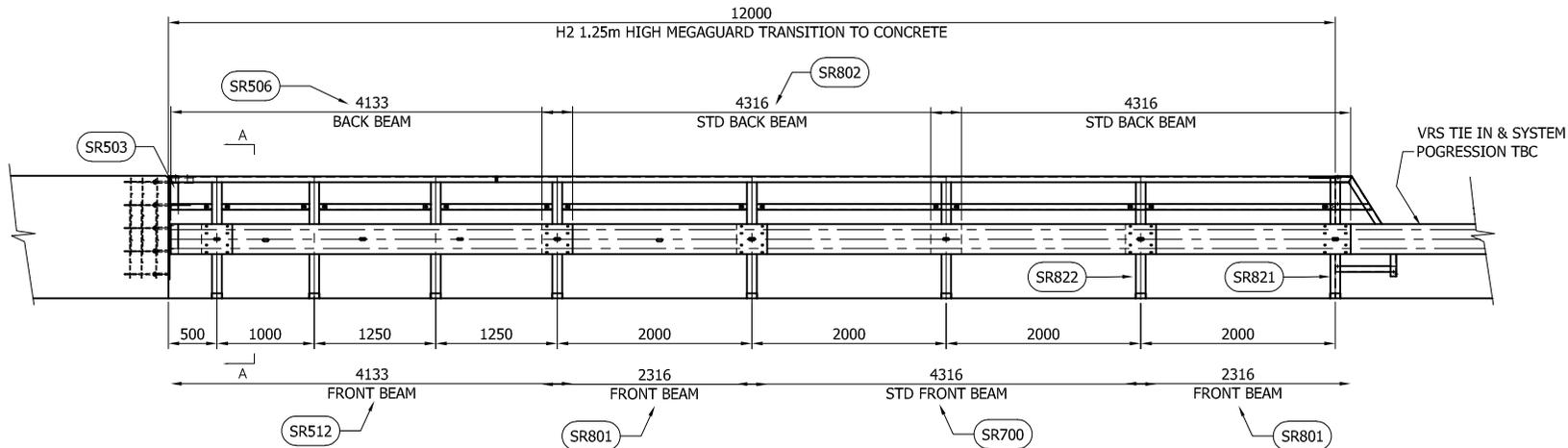
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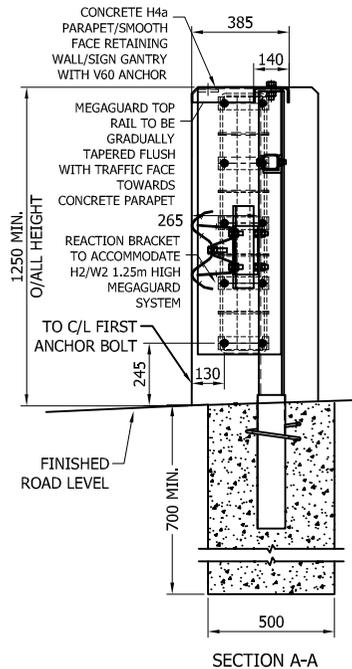
DRAWING NUMBER: H2W1-GA-16 REV#: 01



PLAN VIEW



ELEVATION ON TRAFFIC FACE
DEPARTURE CONNECTION



SECTION A-A

ARRANGEMENT SHOWN WITH SOCKETED POSTS. CAN ALSO BE BASEPLATED

GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. CONNECTION APPLICABLE TO; CONCRETE H4a PARAPET, SMOOTH FACE RETAINING WALL OR SIGN GANTRY.
3. FOR DETAILS OF STRUCTURE ANCHORAGE, ITEM V60, SEE DRG. No. SB/155.
4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET. DESIGN TBD.
5. TOTAL LENGTH OF BARRIER TO BE AS TD19/06, CHAPTER 3 TABLE 3/1.
6. ARRANGEMENT & REACTION BRACKET SUITABLE FOR 1.25m MIN. O/ALL HEIGHT MEGAGUARD SYSTEM.

FULL REQUIRED QUANTITY PER DEPARTURE/RIGHT HAND 12.0m RUN		
CODE	DESCRIPTION	QTY
SR503	REACTION BRACKET DEPARTURE FOR 1250mm HIGH	1
SR822	INTERMEDIATE SOCKETED POST 1734mm LG	7
SR821	RIGHT HAND END SOCKETED POST 1734mm LG	1
SR825	MEGAGUARD POST SOCKET 525mm LG	8
SR100	REINFORCING RING (ITEM A21)	8
SR831	SPACER BRACKET 180mm LG	8
SR508	INTERMEDIATE RAIL 400mm LG	1
SR509	INTERMEDIATE RAIL 880mm LG	1
SR510	INTERMEDIATE RAIL 1130mm LG	2
SR830	INTERMEDIATE RAIL 1880mm LG	4
SR815	TOP RAIL TO CONCRETE DEPARTURE 3340mm LG	1
SR505	SPECIAL TOP RAIL 3605mm LG	1
SR811	END TOP RAIL 4980mm LG	1
SR506	BACK BEAM TO CONCRETE DEPARTURE 4133mm LG	1
SR802	STANDARD BACK BEAM 4316mm LG	2
SR512	FRONT BEAM TO CONCRETE 4133mm LG	1
SR801	FRONT BEAM 2316mm LG	2
SR700	STANDARD FRONT BEAM (VIK) 4316mm LG	1

REVn	DATE	DETAILS	INITIAL
01	07.05.19	NOTES REVISED	M.T
00	18.02.19	DRAWING CREATED	M.T

MegaGuard H2 W1

1.25m CONNECTION TO CONCRETE STRUCTURE (V60 CRADLE)
DEPART / RIGHT HAND SOCKETED FULL 12.0m GENERAL ARRANGEMENT

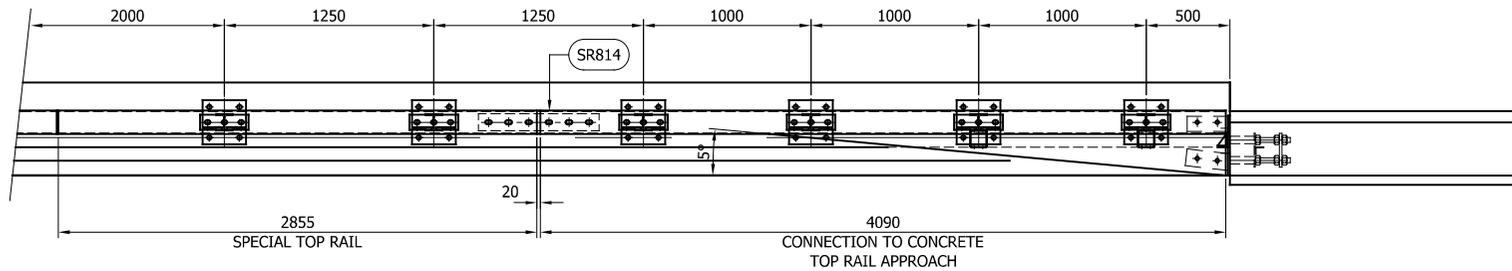
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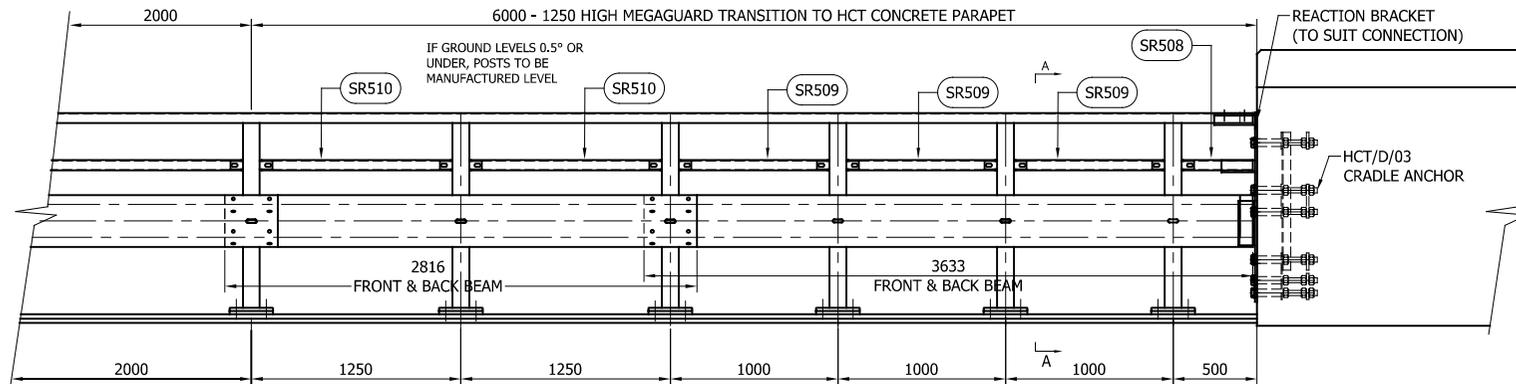
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GENERAL NOTES:

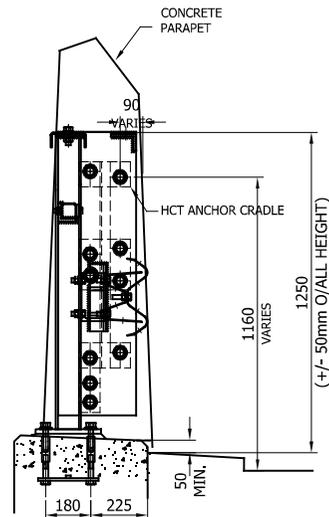
1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. CONNECTION APPLICABLE TO CONCRETE PARAPET.
3. FOR DETAILS OF STRUCTURE ANCHORAGE SEE DRG. No. HCT/D/03.
4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET.
5. REACTION BRACKET TO ACCOMMODATE H2/W1 MEGAGUARD SYSTEM.
6. TOTAL LENGTH OF BARRIER TO BE AS CD377 & LENGTH OF NEED DRAWING MR-GA-043.
7. HEIGHT OF MEGAGUARD SHOWN AS 1250mm HIGH. CAN ALSO BE A MAXIMUM OF 1500mm.



NO DEVIATIONS IN THIS TRANSITION SECTION
EITHER APPROACH OR DEPARTURE



MEGAGUARD ARRANGEMENT SHOWN WITH BASEPLATED
POSTS. POSTS CAN ALSO BE SOCKETED



SECTION A-A
SCALE: 1:30

06	29.11.24	LOGO UPDATED	H.B
05	12.08.22	NOTE 6 CHANGED	A.D
04	22.02.22	NOTES ADDED	M.T
03	19.10.21	TITLE BLOCK REVISED	A.D
02	23.09.21	TEXT BOX REMOVED	A.D
01	26.07.21	SECTION A-A REVISED	A.D
00	25.09.19	DRAWING CREATED	M.T
REVn	DATE	DETAILS	INITIAL

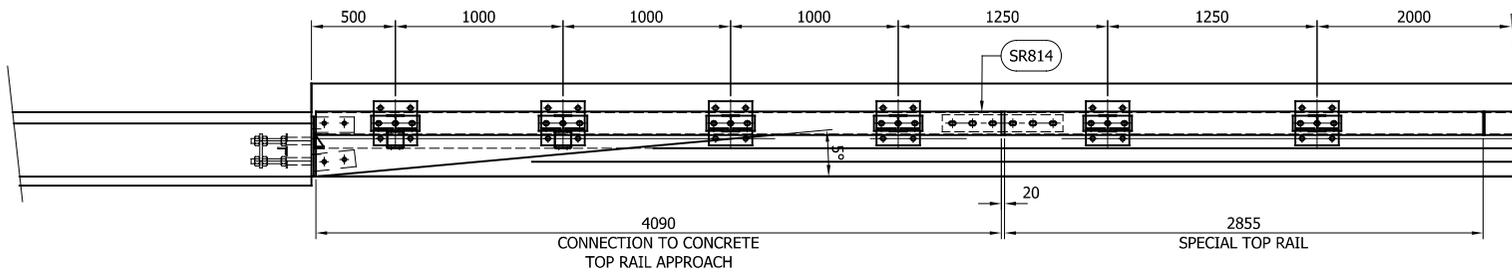
MegaGuard H2 W1 VI 1

CONNECTION TO CONCRETE
PARAPET (HCT ANCHORAGE)
APPROACH / LEFT HAND
GENERAL ARRANGEMENT

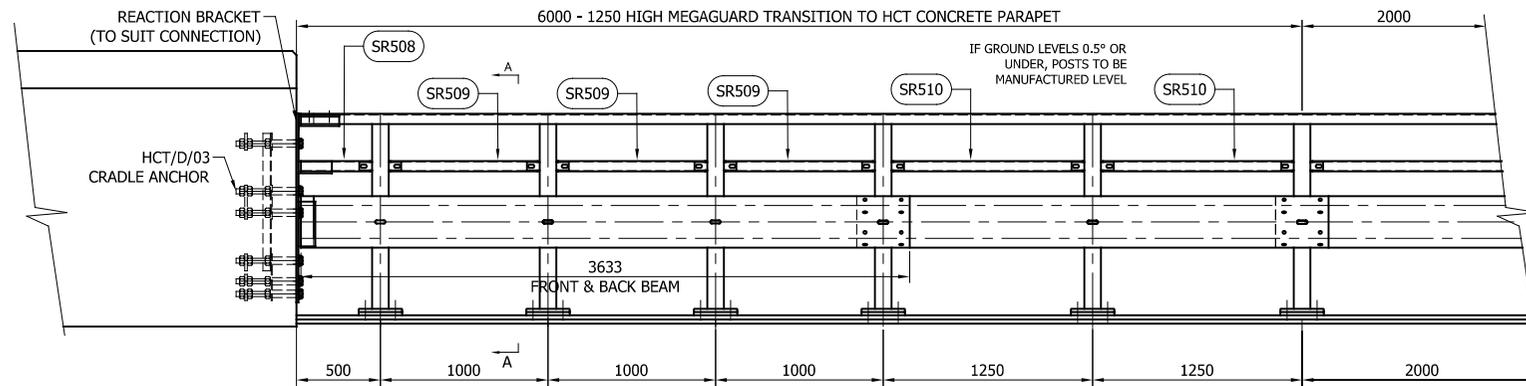


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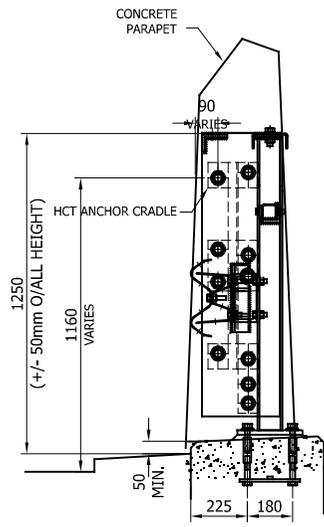
DRAWING NUMBER:	REVn:
H2W1-GA-18	06



NO DEVIATIONS IN THIS TRANSITION SECTION
EITHER APPROACH OR DEPARTURE



MEGAGUARD ARRANGEMENT SHOWN WITH BASEPLATED
POSTS. POSTS CAN ALSO BE SOCKETED



SECTION A-A
SCALE: 1:30

GENERAL NOTES;

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. CONNECTION APPLICABLE TO CONCRETE PARAPET.
3. FOR DETAILS OF STRUCTURE ANCHORAGE SEE DRG. No. HCT/D/03.
4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET.
5. REACTION BRACKET TO ACCOMMODATE H2/W1 MEGAGUARD SYSTEM.
6. TOTAL LENGTH OF BARRIER TO BE AS CD377 & LENGTH OF NEED DRAWING MR-GA-043.
7. HEIGHT OF MEGAGUARD SHOWN AS 1250mm HIGH. CAN ALSO BE A MAXIMUM OF 1500mm.

06	29.11.24	LOGO UPDATED	H.B
05	12.08.22	NOTE 6 CHANGED	A,D
04	22.02.22	NOTES ADDED	M,T
03	19.10.21	TITLE BOX REVISED	A,D
02	23.09.21	TEXT BOX REMOVED	A,D
01	26.07.21	SECTION A-A REVISED	A,D
00	25.09.19	DRAWING CREATED	M,T
REVn	DATE	DETAILS	INITIAL

MegaGuard H2 W1 VI 1

CONNECTION TO CONCRETE
PARAPET (HCT ANCHORAGE)
DEPARTURE / RIGHT HAND
GENERAL ARRANGEMENT



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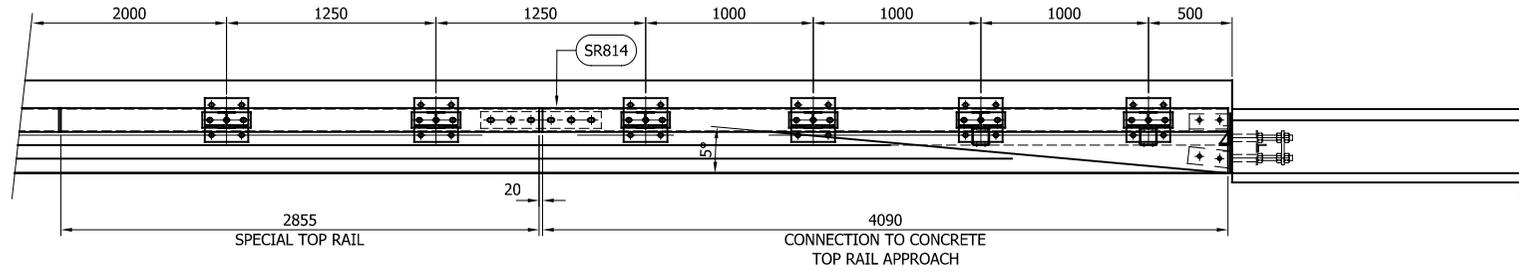
DRAWING NUMBER: REVn:

H2W1-GA-19

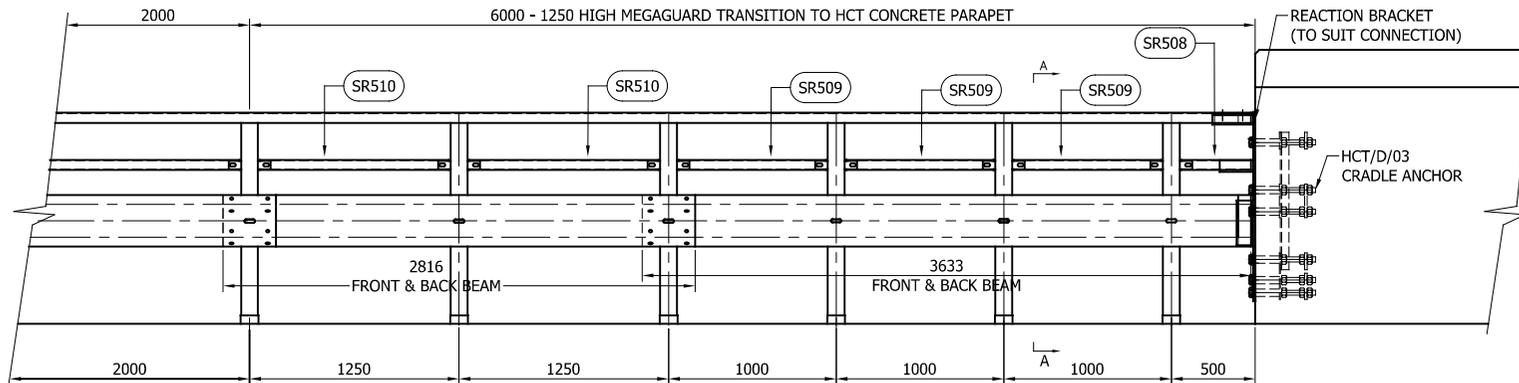
06

GENERAL NOTES;

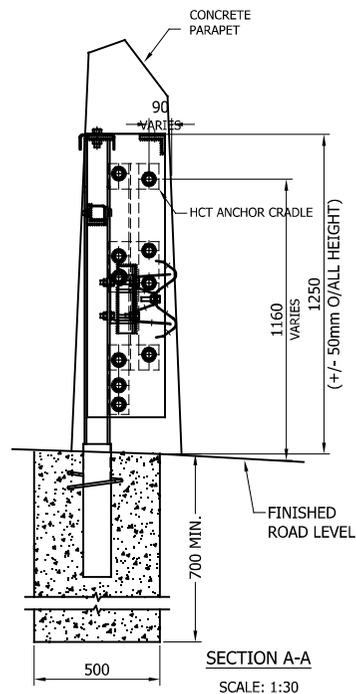
1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. CONNECTION APPLICABLE TO CONCRETE PARAPET.
3. FOR DETAILS OF STRUCTURE ANCHORAGE SEE DRG. No. HCT/D/03.
4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET.
5. REACTION BRACKET TO ACCOMMODATE H2/W1 MEGAGUARD SYSTEM.
6. TOTAL LENGTH OF BARRIER TO BE AS CD377 & LENGTH OF NEED DRAWING MR-GA-043.
7. HEIGHT OF MEGAGUARD SHOWN AS 1250mm HIGH. CAN ALSO BE A MAXIMUM OF 1500mm.



NO DEVIATIONS IN THIS TRANSITION SECTION
EITHER APPROACH OR DEPARTURE



MEGAGUARD ARRANGEMENT SHOWN WITH SOCKETED
POSTS. POSTS CAN ALSO BE BASEPLATED



REVn	DATE	DETAILS	INITIAL
04	29.11.24	LOGO UPDATED	H,B
03	22.02.22	NOTES ADDED	M,T
02	26.07.21	SECTION A-A REVISED	A,D
01	25.05.21	DETAILS REVISED	M,T
00	03.10.19	DRAWING CREATED	M,T

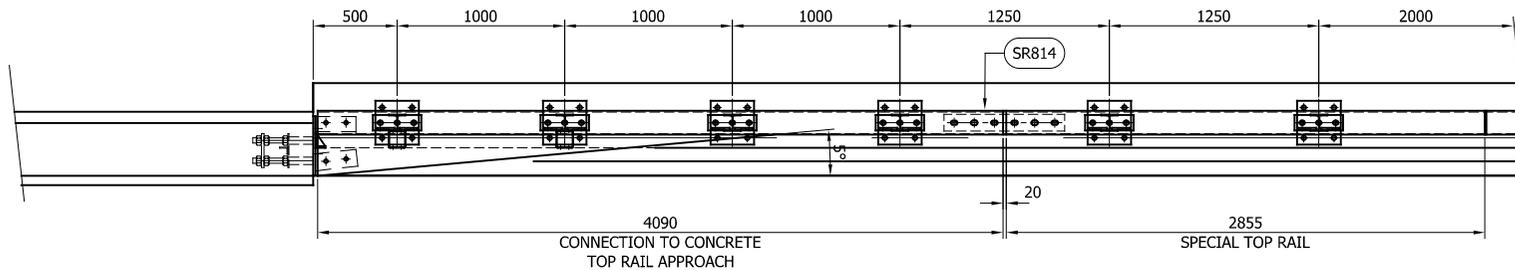
MegaGuard H2 W1 VI 1

CONNECTION TO CONCRETE
PARAPET (HCT ANCHORAGE)
APPROACH / LEFT HAND
SOCKETED GENERAL ARRANGEMENT

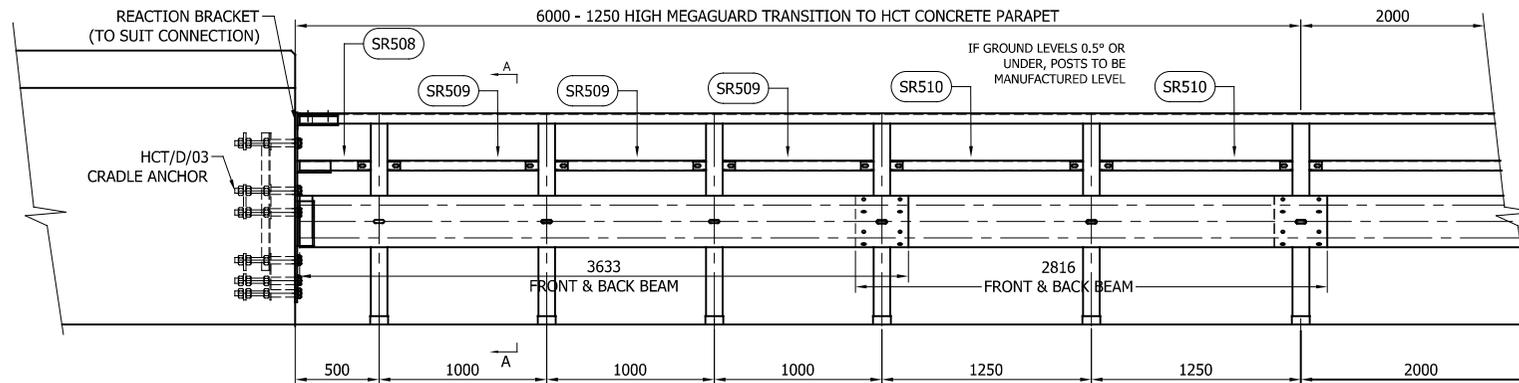


CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119
FOR TECHNICAL ASSISTANCE CONTACT
e: john.cudlipp@saferoad.co.uk

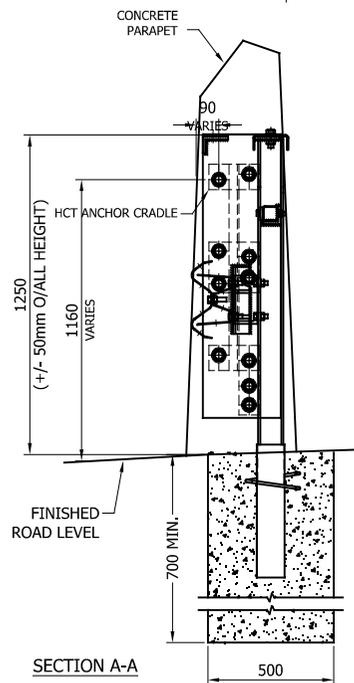
DRAWING NUMBER:	REVn:
H2W1-GA-20	04



NO DEVIATIONS IN THIS TRANSITION SECTION
EITHER APPROACH OR DEPARTURE



MEGAGUARD ARRANGEMENT SHOWN WITH SOCKETED
POSTS. POSTS CAN ALSO BE BASEPLATED



SECTION A-A
SCALE: 1:30

GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. CONNECTION APPLICABLE TO CONCRETE PARAPET.
3. FOR DETAILS OF STRUCTURE ANCHORAGE SEE DRG. No. HCT/D/03.
4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET.
5. REACTION BRACKET TO ACCOMMODATE H2/W1 MEGAGUARD SYSTEM.
6. TOTAL LENGTH OF BARRIER TO BE AS CD377 & LENGTH OF NEED DRAWING MR-GA-043.
7. HEIGHT OF MEGAGUARD SHOWN AS 1250mm HIGH. CAN ALSO BE A MAXIMUM OF 1500mm.

04	29.11.24	LOGO UPDATED	H.B
03	22.02.22	NOTES ADDED	M.T
02	26.07.21	SECTION A-A REVISED	A.D
01	25.05.21	DETAILS REVISED	M.T
00	03.10.19	DRAWING CREATED	M.T
REVn	DATE	DETAILS	INITIAL

MegaGuard H2 W1 VI 1

CONNECTION TO CONCRETE
PARAPET (HCT ANCHORAGE)
DEPARTURE / RIGHT HAND
SOCKETED GENERAL ARRANGEMENT



CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
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t: 01724 289119
FOR TECHNICAL ASSISTANCE CONTACT
e: john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

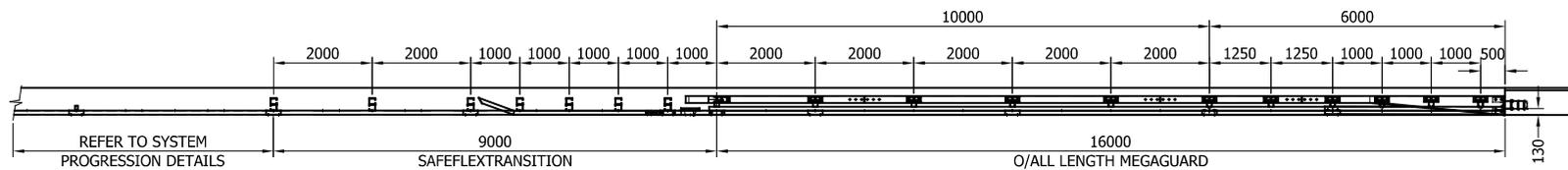
H2W1-GA-21

REVn:

04

GENERAL NOTES;

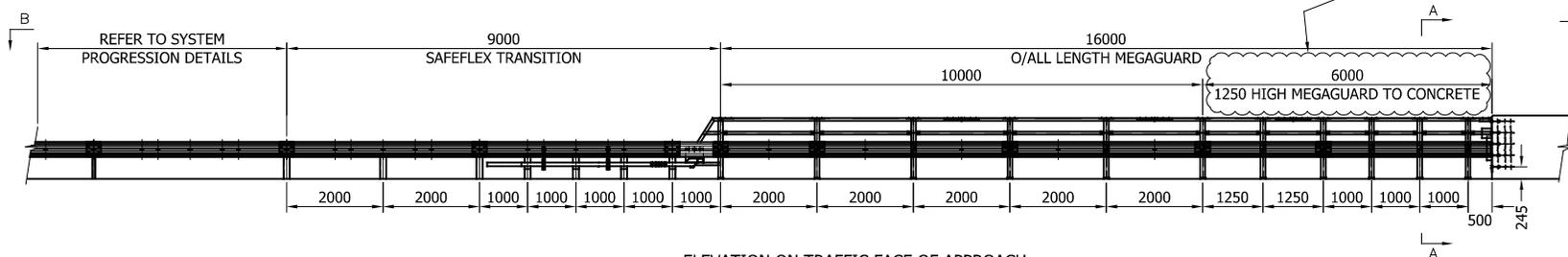
1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. CONNECTION APPLICABLE TO; CONCRETE H4a PARAPET, SMOOTH FACE RETAINING WALL OR SIGN GANTRY.
3. FOR DETAILS OF STRUCTURE ANCHORAGE, ITEM V60, SEE DRG. No. SB/155.
4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET. DESIGN TBD.
5. ARRANGEMENT & REACTION BRACKET SUITABLE FOR 1.25m MIN. O/ALL HEIGHT MEGAGUARD SYSTEM.
6. FOR FURTHER DETAILS ON CONNECTION OF MEGAGUARD TO SAFEFLEX TRANSITION, PLEASE SEE UK 27460 & UK 27461



SECTION B-B
(PLAN VIEW ON CONNECTION TO SAFEFLEX TRANSITION)

SCALE: 1:150

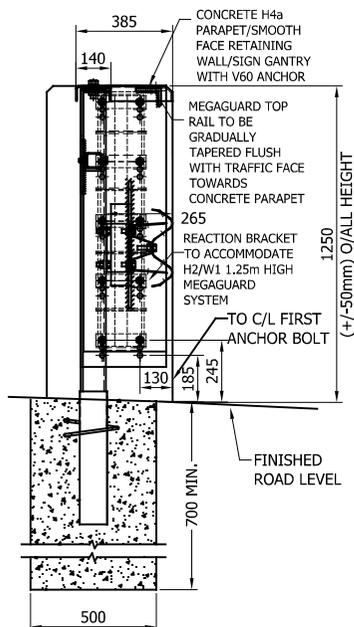
NO DEVIATIONS IN THIS TRANSITION SECTION
EITHER APPROACH OR DEPARTURE



**ELEVATION ON TRAFFIC FACE OF APPROACH
CONNECTION TO SAFEFLEX TRANSITION**

SCALE: 1:150

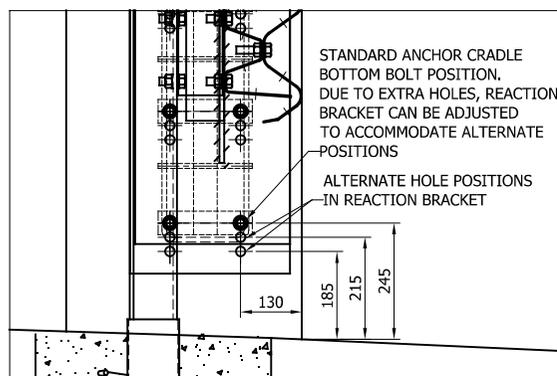
SEE UK 27460 & UK 27461 FOR FURTHER DETAILS
OF MEGAGUARD CONNECTION TO SAFEFLEX TRANSITION



SECTION A-A

SCALE: 1:30

MEGAGUARD ARRANGEMENT SHOWN WITH
SOCKETED POSTS. CAN ALSO BE BASEPLATED



**FURTHER DETAIL OF ANCHORAGE &
REACTION BRACKET HOLES**

SCALE: 1:16

REVn	DATE	DETAILS	INITIAL
06	25.11.24	TRANSITION UPGRADED TO SAFEFLEX	H.B
05	19.07.22	SECTION A-A NOTE CHANGED	A.D
04	22.02.22	NOTES ADDED	M,T
03	12.01.22	TITLE BLOCK REVISED	A.D
02	23.07.21	SECTION C-C & D-D ARROWS MOVED	A.D
01	22.02.21	REACTION BRACKET REVISED	M,T
00	07.05.20	DRAWING CREATED	M,T

MegaGuard H2 W1

1.25m CONNECTION TO CONCRETE INTO SAFEFLEX TRANSITION APPROACH / LEFT HAND SOCKETED GENERAL ARRANGEMENT



CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
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FOR TECHNICAL ASSISTANCE CONTACT
e: john.cudlipp@saferoad.co.uk

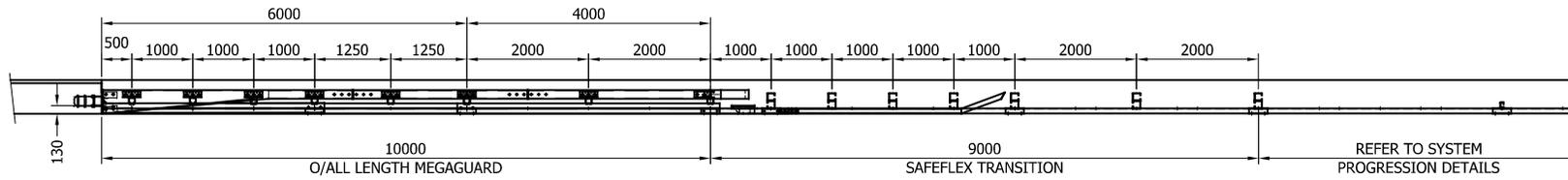
DRAWING NUMBER:

H2W1-GA-22

REVn:

06

MINIMUM DEPARTURE LENGTH = 8.0m
10.0m SHOWN TO ACCOMMODATE USE OF
STANDARD COMPONENTS

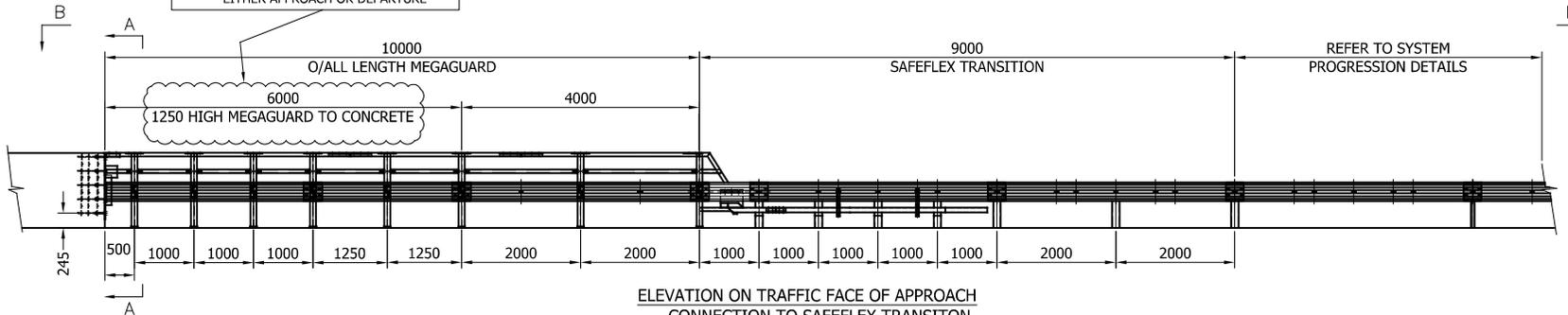


SECTION B-B

(PLAN VIEW ON CONNECTION TO SAFEFLEX TRANSITION)

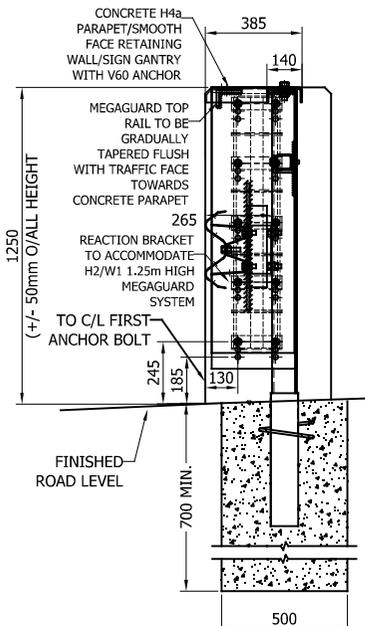
SCALE: 1:120

NO DEVIATIONS IN THIS TRANSITION SECTION
EITHER APPROACH OR DEPARTURE



ELEVATION ON TRAFFIC FACE OF APPROACH
CONNECTION TO SAFEFLEX TRANSITION

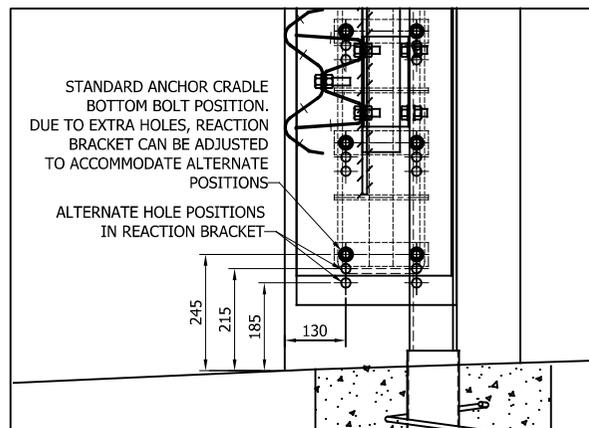
SCALE: 1:120



SECTION A-A

SCALE: 1:30

MEGAGUARD ARRANGEMENT SHOWN WITH
SOCKETED POSTS. CAN ALSO BE BASEPLATED



FURTHER DETAIL OF ANCHORAGE &
REACTION BRACKET HOLES

SCALE: 1:16

SEE UK 27460 & UK 27461 FOR FURTHER DETAILS
OF MEGAGUARD CONNECTION TO SAFEFLEX TRANSITION

GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. CONNECTION APPLICABLE TO; CONCRETE H4a PARAPET, SMOOTH FACE RETAINING WALL OR SIGN GANTRY.
3. FOR DETAILS OF STRUCTURE ANCHORAGE, ITEM V60, SEE DRG. No. 5B/155.
4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET. DESIGN TBD.
5. ARRANGEMENT & REACTION BRACKET SUITABLE FOR 1.25m MIN. O/ALL HEIGHT MEGAGUARD SYSTEM.
6. FOR FURTHER DETAILS ON CONNECTION OF MEGAGUARD TO SAFEFLEX TRANSITION, PLEASE SEE UK 27460 & UK 27461

REVn	DATE	DETAILS	INITIAL
08	25.11.24	TRANSITION UPGRADED TO SAFEFLEX	H,B
07	19.07.22	SECTION A-A NOTE CHANGED	A,D
06	22.03.22	MEGAGUARD LENGTH REVISED	M,T
05	22.02.22	NOTES ADDED	M,T
04	12.01.22	TITLE BLOCK REVISED	A,D
03	23.07.21	POST SPACING REVISED	A,D
02	25.05.21	DETAILS REVISED	M,T
01	22.02.21	REACTION BRACKET REVISED	M,T
00	07.05.20	DRAWING CREATED	M,T

MegaGuard H2 W1

1.25m CONNECTION TO CONCRETE
INTO SAFEFLEX TRANSITION
DEPARTURE / RIGHT HAND
SOCKETED GENERAL ARRANGEMENT



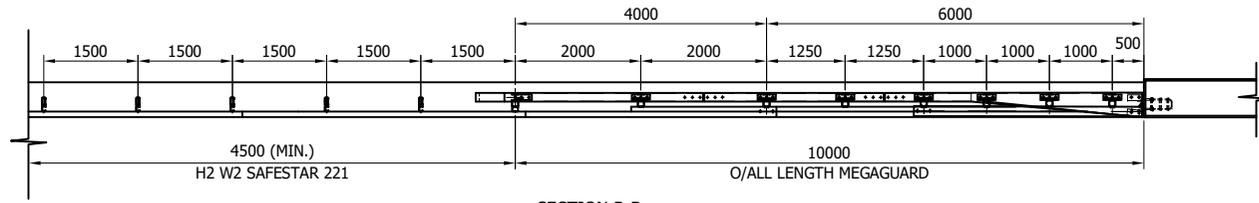
CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119
FOR TECHNICAL ASSISTANCE CONTACT
e: john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

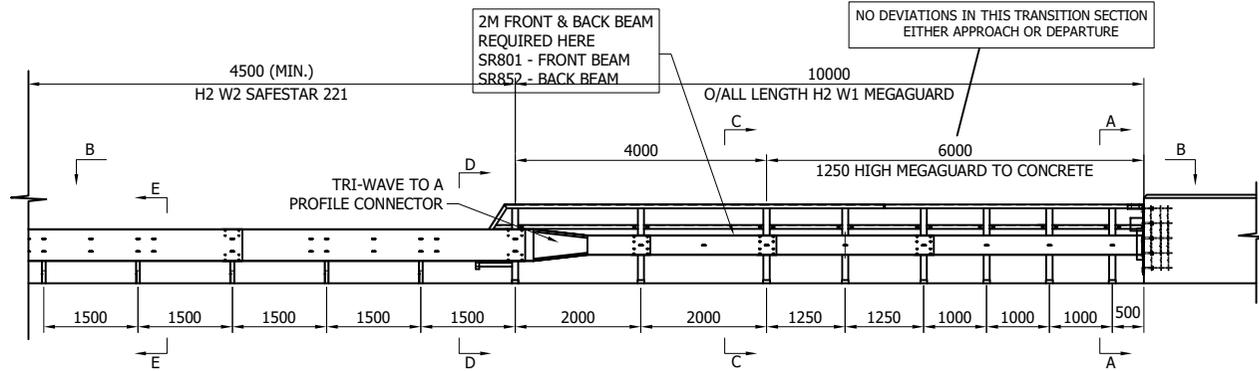
REVn:

H2W1-GA-23

08

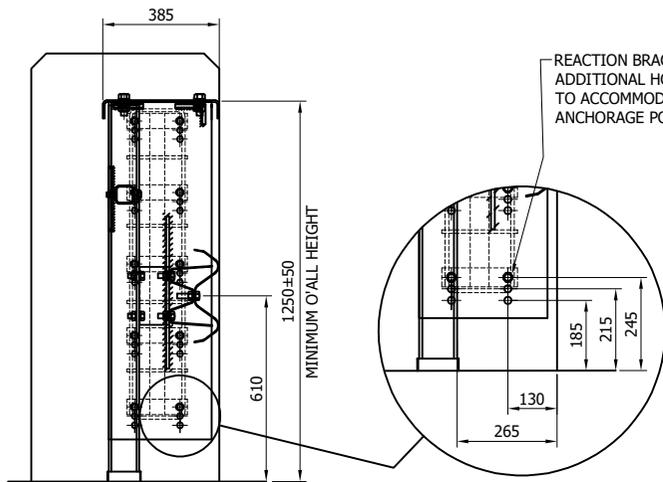


SECTION B-B
SCALE: 1:120



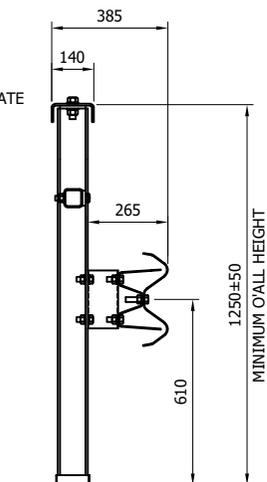
ELEVATION ON TRAFFIC FACE
APPROACH CONNECTION

MEGAGUARD DETAILED WITH SOCKETED POSTS.
TRANSITION & SYSTEM ALSO AVAILABLE SURFACE MOUNTED

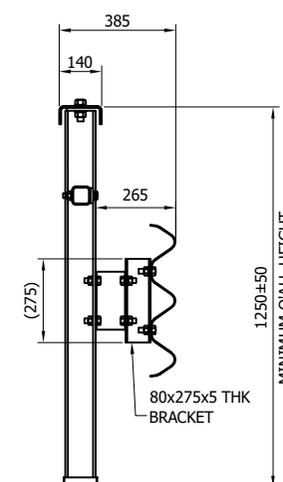


SECTION A-A
SCALE: 1:25

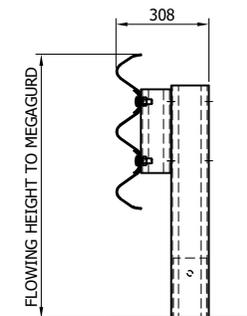
REACTION BRACKET
POSITIONING DETAIL
SCALE: 1:20



SECTION C-C
SCALE: 1:25



SECTION D-D
SCALE: 1:25



SECTION E-E
SCALE: 1:25

GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. CONNECTION APPLICABLE TO; CONCRETE H4a PARAPET, SMOOTH FACE RETAINING WALL OR SIGN GANTRY.
3. FOR DETAILS OF STRUCTURE ANCHORAGE, ITEM V60, SEE DRG. No. SB/155.
4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET. DESIGN TBD.
5. ARRANGEMENT & REACTION BRACKET SUITABLE FOR 1.25m (+/-50mm) O/ALL HEIGHT MEGAGUARD SYSTEM.
6. FOR GENERAL DETAILS OF H2W2 SAFESTAR 221, SEE SYSTEM MANUAL
7. SAFESTAR 221 BEAMS TO BE INSTALLED AT FLOWING HEIGHT TO MEGAGUARD BEAMS, GRADUALLY RETURNING TO SET SYSTEM HEIGHT

REVn	DATE	DETAILS	INITIAL
08	15.01.26	DRAWING UPDATED	H.B
07	17.06.24	LENGTH OF MEGAGUARD REDUCED	H.B
06	29.11.22	DIMENSION ADDED TO SECTION E-E	A.D
05	19.07.22	SECTION A-A NOTE CHANGED	A.D
04	22.02.22	NOTES ADDED	M.T
03	12.01.22	TITLE BLOCK REVISED	A.D
02	19.10.21	SECTIONS C-C, D-D ALTERED	A.D
01	08.10.21	SECTIONS A-A, B-B & C-C ALTERED	A.D
00	14.06.21	DRAWING CREATED	M.T

MegaGuard H2 W1

1.25m CONNECTION TO CONCRETE INTO SYSTEM PROGRESSION FROM H2W1 TO H2W2 SAFESTAR 221



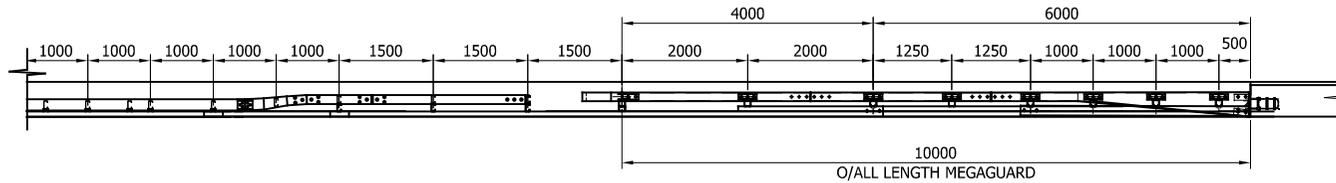
CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119
FOR TECHNICAL ASSISTANCE CONTACT
e: john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

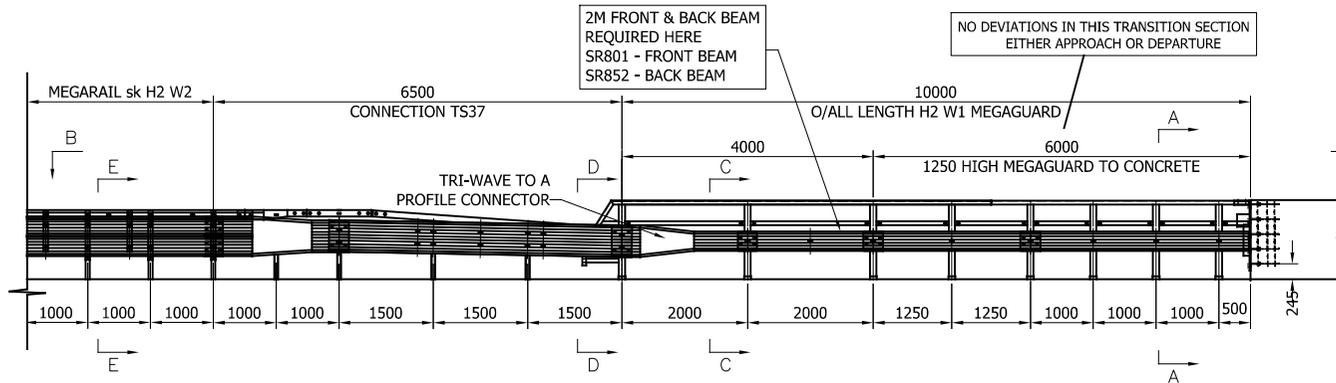
H2W1-GA-25

REVn:

08



PLAN VIEW



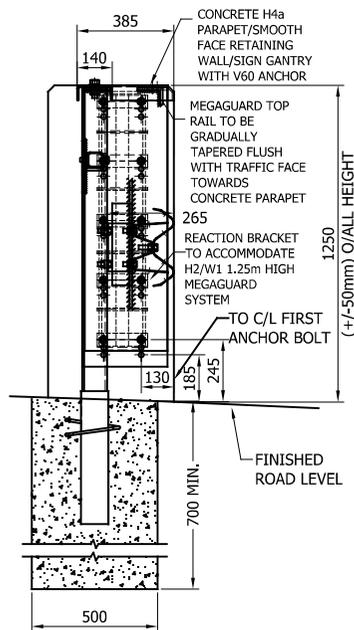
ELEVATION ON TRAFFIC FACE APPROACH CONNECTION

GENERAL NOTES;

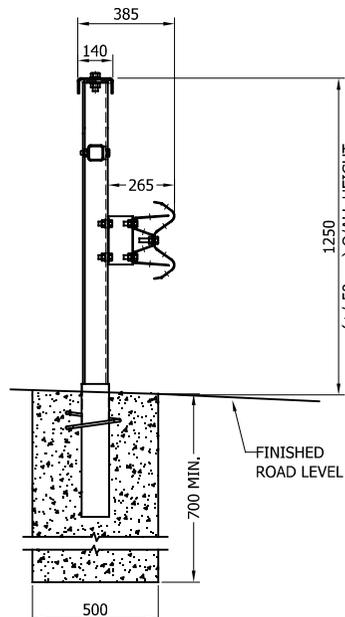
1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. CONNECTION APPLICABLE TO; CONCRETE H4a PARAPET, SMOOTH FACE RETAINING WALL OR SIGN GANTRY.
3. FOR DETAILS OF STRUCTURE ANCHORAGE, ITEM V60, SEE DRG. No. SB/155.
4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET. DESIGN TBD.
5. ARRANGEMENT & REACTION BRACKET SUITABLE FOR 1.25m (+/-50mm) O/ALL HEIGHT MEGAGUARD SYSTEM.
6. FOR GENERAL DETAILS OF H2 W2 MEGARAIL sk SEE DRG. No. H2W2-GA-01.

REVn	DATE	DETAILS	INITIAL
07	17.06.24	LENGTH OF MEGAGUARD REDUCED	H.B
06	29.11.22	DIMENSION ADDED TO SECTION E-E	A.D
05	19.07.22	SECTION A-A NOTE CHANGED	A.D
04	22.02.22	NOTES ADDED	M.T
03	12.01.22	TITLE BLOCK REVISED	A.D
02	19.10.21	SECTIONS C-C & D-D ALTERED	A.D
01	08.10.21	SECTIONS A-A, B-B & C-C ALTERED	A.D
00	14.06.21	DRAWING CREATED	M.T

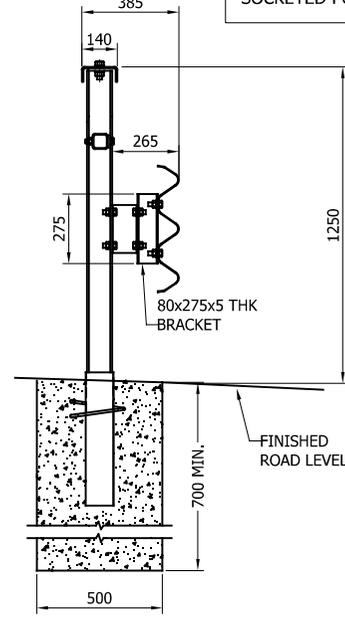
MEGAGUARD ARRANGEMENT SHOWN WITH SOCKETED POSTS. CAN ALSO BE BASEPLATED



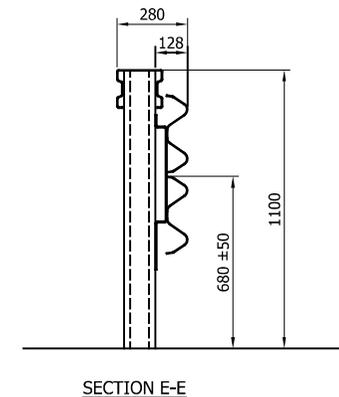
SECTION A-A



SECTION C-C



SECTION D-D



SECTION E-E

MegaGuard H2 W1

1.25m CONNECTION TO CONCRETE INTO SYSTEM PROGRESSION FROM H2-W1 TO H2-W2 MEGARAIL sk



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DRAWING NUMBER: REVn:

H2W1-GA-26

07

GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. CONNECTION APPLICABLE TO; CONCRETE H4a PARAPET, SMOOTH FACE RETAINING WALL OR SIGN GANTRY.
3. DRILL & FIX ANCHORS INTO CONCRETE H4a TO BE SSR-VDI M16 x 280 INTERNALLY THREADED CHEMICAL ANCHORS SOCKETS, C/W GLASS RESIN CAPSULES. 28 DIA. x 280 DRILLING DEPTH REQ'D
4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET. DESIGN TBD.
5. TOTAL LENGTH OF BARRIER TO BE AS CD377 & LENGTH OF NEED DRAWING MR-GA-043.
6. ARRANGEMENT & REACTION BRACKET SUITABLE FOR 1.25m MIN. O/ALL HEIGHT MEGAGUARD SYSTEM.

REVn	DATE	DETAILS	INITIAL
02	21.01.25	ANCHOR DEPTH UPDATED	H.B
01	29.11.24	LOGO UPDATED	H.B
00	29.07.22	DRAWING CREATED	M.T

MegaGuard H2 W1 VI 1

1.25m CONNECTION TO CONCRETE STRUCTURE (DRILL & FIX) APPROACH / LEFT HAND SOCKETED GENERAL ARRANGEMENT

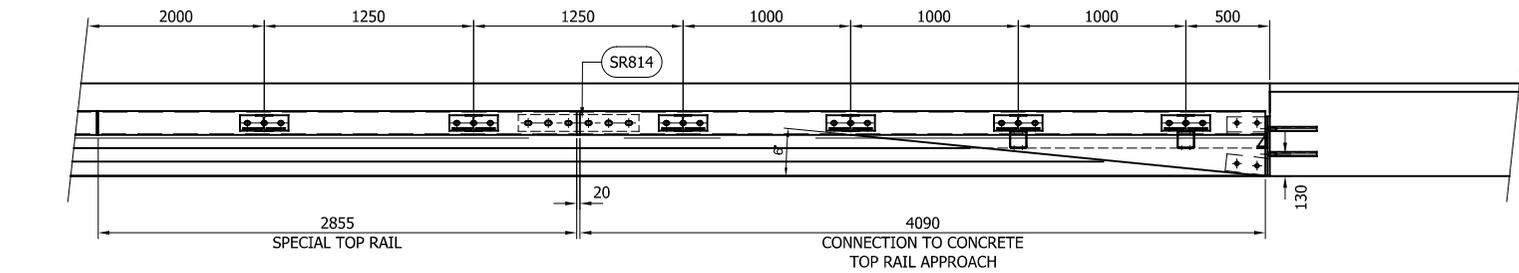


CONCORD HOUSE,
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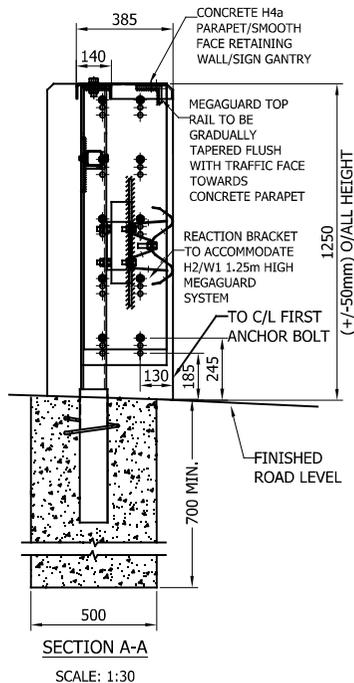
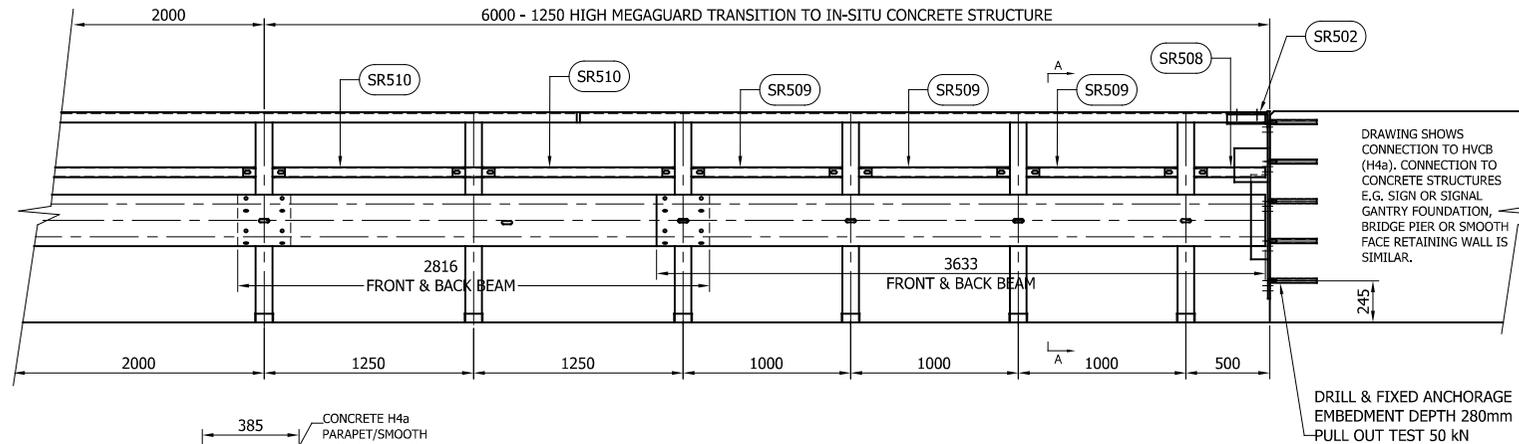
DRAWING NUMBER: H2W1-GA-27 REVn: 02

H2W1-GA-27

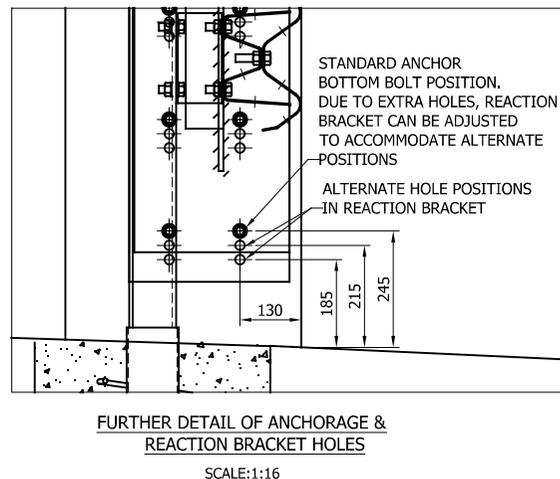
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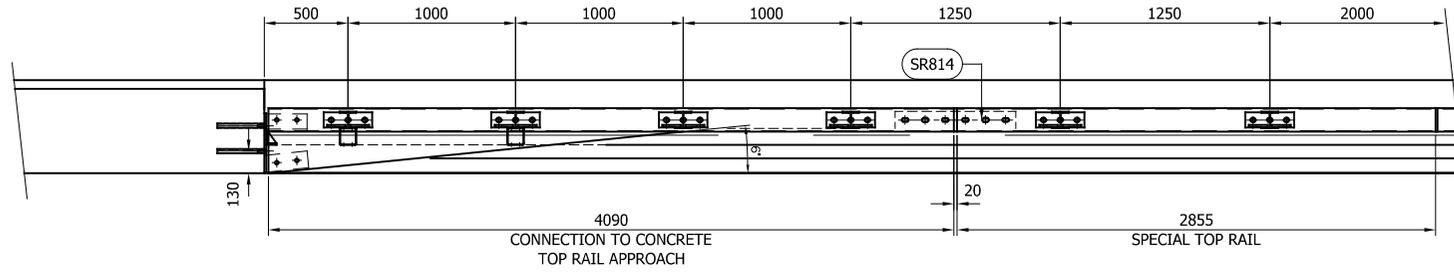


NO DEVIATIONS IN THIS TRANSITION SECTION
EITHER APPROACH OR DEPARTURE

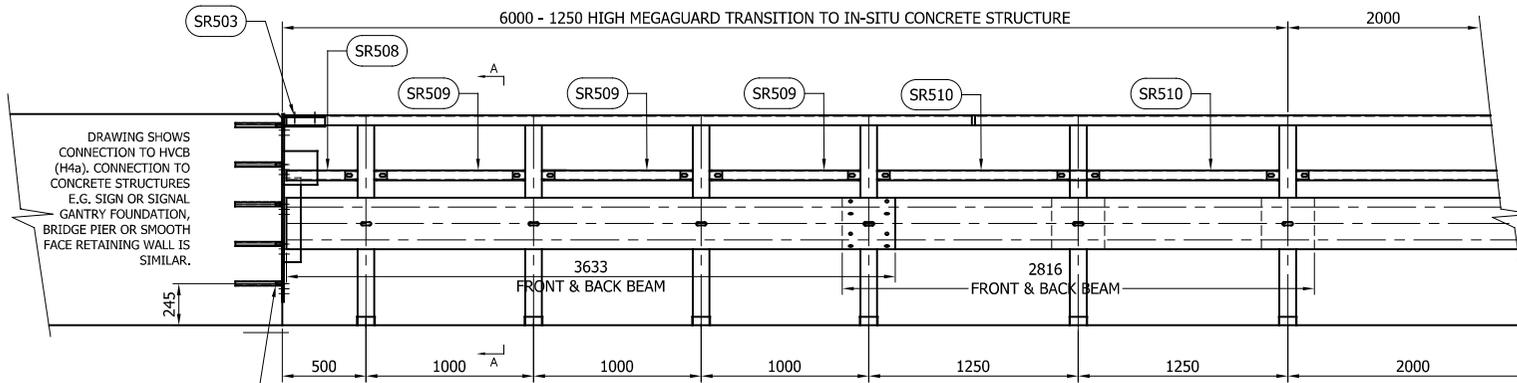


MEGAGUARD ARRANGEMENT SHOWN WITH SOCKETED POSTS. POSTS CAN ALSO BE BASEPLATED



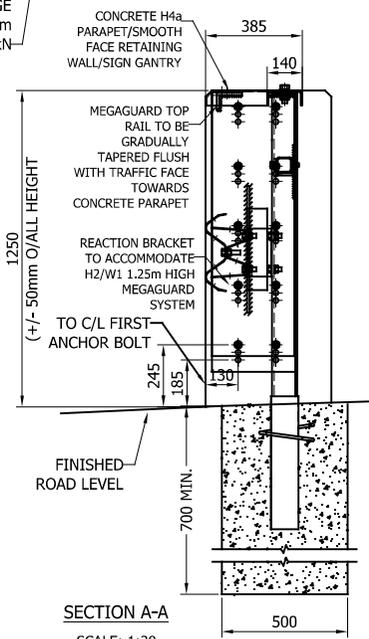


NO DEVIATIONS IN THIS TRANSITION SECTION
EITHER APPROACH OR DEPARTURE



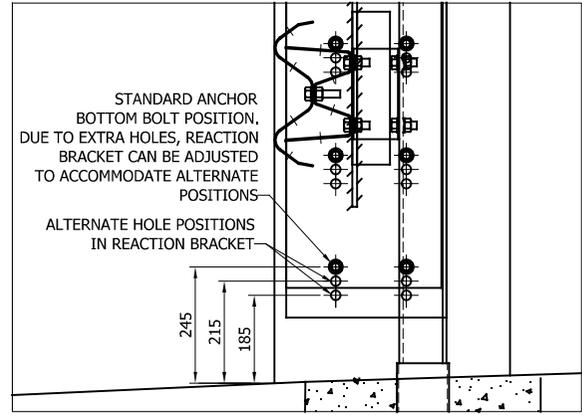
DRAWING SHOWS CONNECTION TO HVCB (H4a), CONNECTION TO CONCRETE STRUCTURES E.G. SIGN OR SIGNAL GANTRY FOUNDATION, BRIDGE PIER OR SMOOTH FACE RETAINING WALL IS SIMILAR.

DRILL & FIXED ANCHORAGE EMBEDMENT DEPTH 280mm PULL OUT TEST 50 kN



SECTION A-A
SCALE: 1:30

MEGAGUARD ARRANGEMENT SHOWN WITH SOCKETED POSTS. POSTS CAN ALSO BE BASEPLATED



FURTHER DETAIL OF ANCHORAGE & REACTION BRACKET HOLES

SCALE: 1:16

GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. CONNECTION APPLICABLE TO; CONCRETE H4a PARAPET, SMOOTH FACE RETAINING WALL OR SIGN GANTRY.
3. DRILL & FIX ANCHORS INTO CONCRETE H4a TO BE SSR-VDI M16 x 280 INTERNALLY THREADED CHEMICAL ANCHORS SOCKETS, C/W GLASS RESIN CAPSULES, 28 DIA. x 280 DRILLING DEPTH REQ'D
4. MEGAGUARD TOP RAIL TO BE TAPERED TO BE FLUSH WITH TRAFFIC FACE AT END OF MEGAGUARD & CONCRETE PARAPET. DESIGN TBD.
5. TOTAL LENGTH OF BARRIER TO BE AS CD377 & LENGTH OF NEED DRAWING MR-GA-043.
6. ARRANGEMENT & REACTION BRACKET SUITABLE FOR 1.25m MIN. O/ALL HEIGHT MEGAGUARD SYSTEM.

REVn	DATE	DETAILS	INITIAL
02	21.01.25	ANCHOR DEPTH UPDATED	H.B
01	29.11.24	LOGO UPDATED	H.B
00	29.07.22	DRAWING CREATED	M.T

MegaGuard H2 W1 VI 1

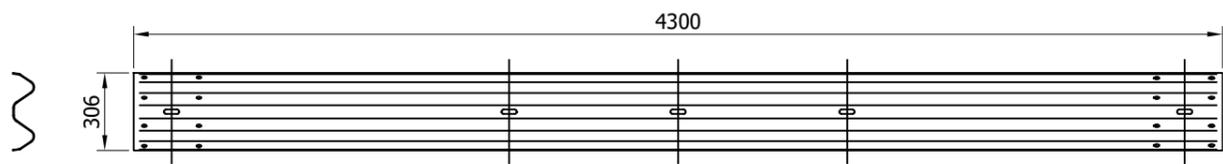
1.25m CONNECTION TO CONCRETE STRUCTURE (DRILL & FIX)
DEPARTURE / RIGHT HAND SOCKETED GENERAL ARRANGEMENT



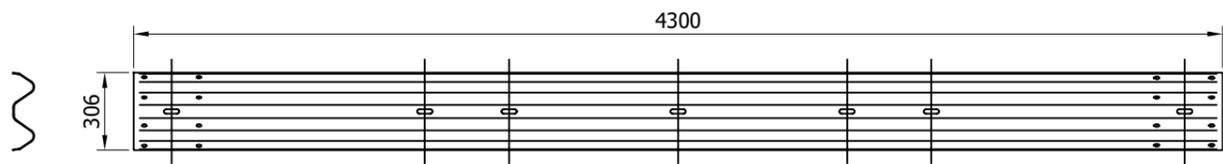
CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119
FOR TECHNICAL ASSISTANCE CONTACT
e: john.cudlipp@saferoad.co.uk

DRAWING NUMBER:	REVn:
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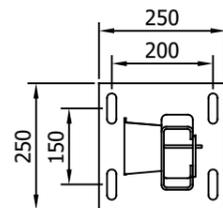
H2W1-GA-28 02



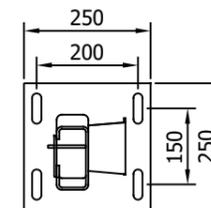
SR001 - STANDARD 3MM BEAM
(CAN BE SUBSTITUTED BY BEAM SR028)



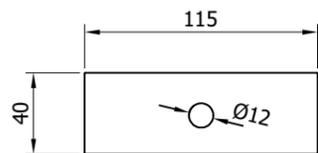
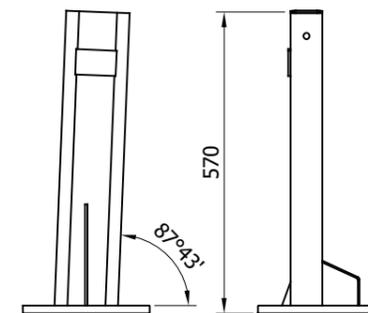
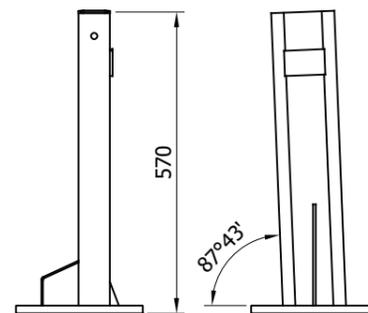
SR028 - A PROFILE 3MM BEAM



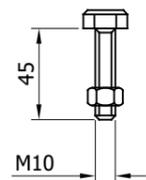
SR058 - POST UK VERGE
"C" 125 595mm x 5



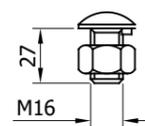
SR057 - POST UK CENTER
"C" 125 595mm x 5



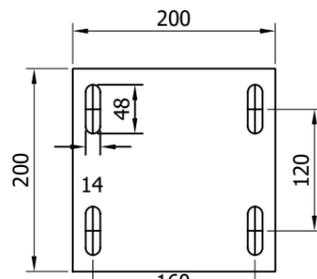
SR152 - WASHER PLATE
115 x 40 x 5 DIA. 12



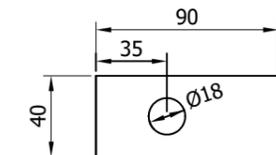
SR204 - SETSCREW
4.6 M10x45 c/w NUT



SR200 - SETSCREW 4.6
LIP M16x27 c/w NUT



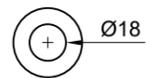
SR115 - GASKET
(NEOPRENE)



SR154 - WASHER PLATE
90 x 40 x 5 DIA. 18
NOTE - WASHER IS FOR USE
WITH THE HOLDING DOWN
FIXINGS



SR301 - M10
WASHER 11Ø HOLE



SR300 - M16
WASHER 18Ø HOLE

GENERAL NOTES:

1. CONCRETE TRENCH ONLY - MINIMUM LENGTH 4M
2. FOR DEVIATIONS SEE H1W2-GA-40
3. CAN CONNECT TO HYBRID GA72 OR GA120/GA140 ONLY UNDER SPECIAL DETAIL APPROVED BY SAFEROAD
4. SYSTEM HAS A V.I. RATING OF VI3
5. VERGE AND CENTRAL RESERVE POSTS ARE HANDED AND **NOT** INTERCHANGEABLE.
6. WHERE A KERB IS PRESENT THE MAXIMUM HEIGHT IS 100mm. SHOULD THE KERB BE HIGHER THAN 100mm AND THE BARRIER SETBACK LESS THAN 250mm FROM FACE OF KERB, THE SYSTEM HEIGHT IS MEASURED FROM THE CARRIAGEWAY. IF THE SETBACK IS GREATER THAN 250mm FROM THE FACE OF KERB, THE SYSTEM HEIGHT IS MEASURED FROM THE TOP OF THE KERB OR ADJACENT GROUND LEVEL.

REVn	DATE	DETAILS	INITIAL
07	22/09/22	NOTE 6 ADDED	A.D
06	08/07/22	DETAILS CHANGED	A.D
05	19/11/19	BEAM DETAILS ADDED	M.T
04	01/04/19	BEAM DETAILS REVISED	M.T
03	12/02/19	TITLEBLOCK REVISED	H.B
02	31/01/17	STOCK & CODES REVISED	L.L
1.3	20/05/15	DETAILS REVISED	M.T

MegaRail bs H1 W2 (VI 3)

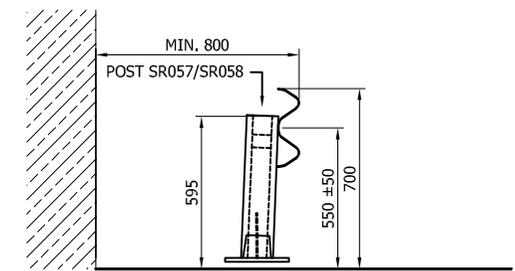
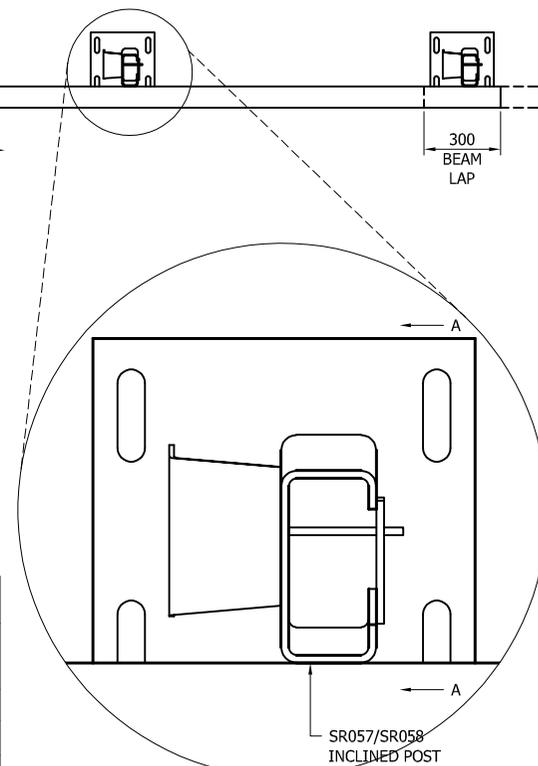
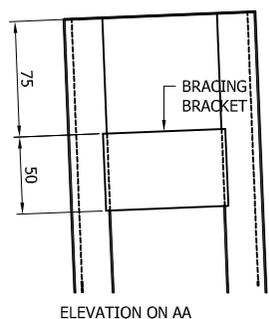
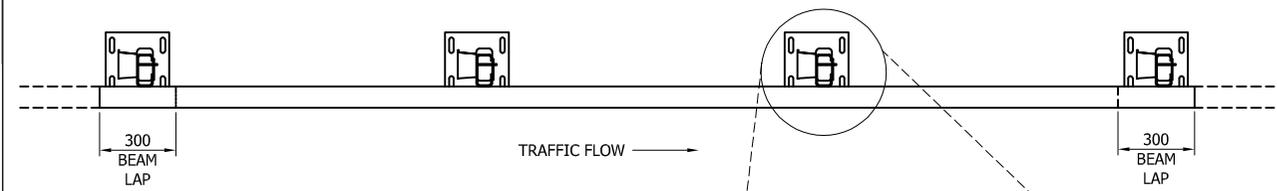
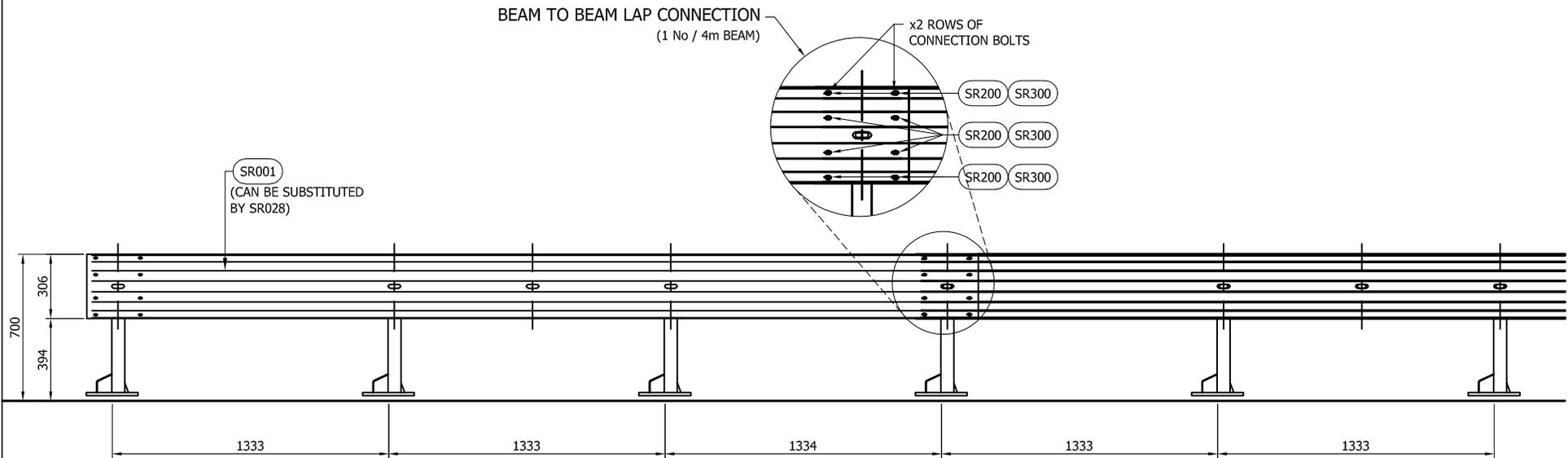
H1.W2 VEHICLE RESTRAINT SYSTEM
COMPONENTS SCHEMATIC

SAFEROAD®

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DRAWING NUMBER:	REVn:
H1W2-GA-00	07

BEAM TO BEAM LAP 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. USE AN M16 FIXING ABLE TO RESIST A TENSILE LOAD OF 50kN
 3. WHEN TYING INTO ADJACENT VRS ONLY ONE WORKING WIDTH DIFFERENCE IS PERMITTED.
 4. WHERE A KERB IS PRESENT THE MAXIMUM KERB HEIGHT IS 100mm.
 5. FOR MINIMUM LENGTH OF FULL HEIGHT VRS REFER TO SAFEROAD MEGARAIL MANUAL.

MegaRail bs H1 W2 (VI 3)

H1.W2 VEHICLE RESTRAINT SYSTEM
ASSEMBLY AND SETTING OUT
ARRANGEMENT

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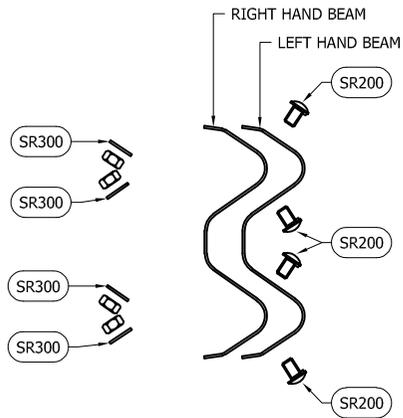
TABLE 'A' - SYSTEM COMPONENT SCHEDULE - QUANTITIES / 4m BEAM

SAFEROAD UK PART NUMBER	DESCRIPTION	QUANTITY
SR001	3mm BEAM (CAN BE SUBSTITUTED BY SR028)	1
SR057/SR058	POST "C" 125 c/w BRACKET	3
SR115	GASKET (NEOPRENE)	3

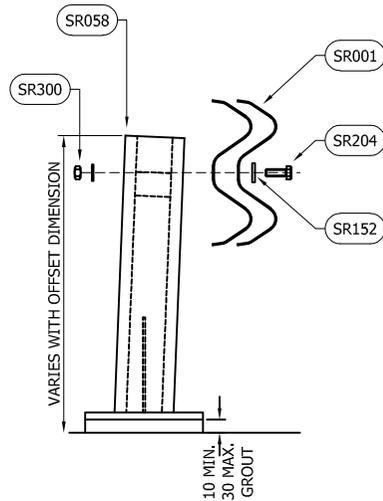
FOR SCHEDULE OF BOLTED CONNECTIONS REFER TO DRAWING NUMBER H1W2-GA-02

REVn	DATE	DETAILS	INITIAL
04	19/11/19	BEAM DETAILS ADDED	H.B
03	12/02/19	MINOR CHANGES AND TITLEBLOCK REVISED	H.B
02	31/01/17	DETAILS & CODES REVISED	L.L
1.4	20/05/15	DETAILS REVISED	M.T

DRAWING NUMBER:	REVn:
H1W2-GA-01	04



**BEAM TO BEAM CONNECTION
ARRANGEMENT**
(x2 LOCATIONS / BEAM END)



**BEAM TO POST
CONNECTION TYPE 1**

GENERAL NOTES:

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

BOLTING COMPONENT SCHEDULE - QUANTITIES / BEAM		
SAFEROAD UK PART NUMBER	DESCRIPTION	BEAM TO BEAM CONNECTION
SR200	SETSCREW 4.6 LIP M16x27 c/w NUT	8 (+8)
SR300	WASHER M16 18φ HOLE	8 (+8)

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

BOLTING COMPONENT SCHEDULE - QUANTITIES / POST		
SAFEROAD UK PART NUMBER	DESCRIPTION	TYPE 1 CONNECTION
SR204	SETSCREW 4.6 M10 x 45 c/w NUT	1
SR152	WASHER PLATE 115 x 40 x 5 DIA. 12	1
SR301	M10 WASHER 11φ HOLE	1
QUANTITY OF CONNECTION TYPES / 4m BEAM		
		3 (+1)

REV#	DATE	DETAILS	INITIAL
03	12/02/19	CODE CHANGES AND TITLEBLOCK REVISED	H,B
02	31/01/17	DETAILS REVISED	L,L
1.2	20/05/15	DETAILS REVISED	M,T

MegaRail bs H1 W2 (VI 3)

H1.W2 VEHICLE RESTRAINT SYSTEM
BOLTING ARRANGEMENTS

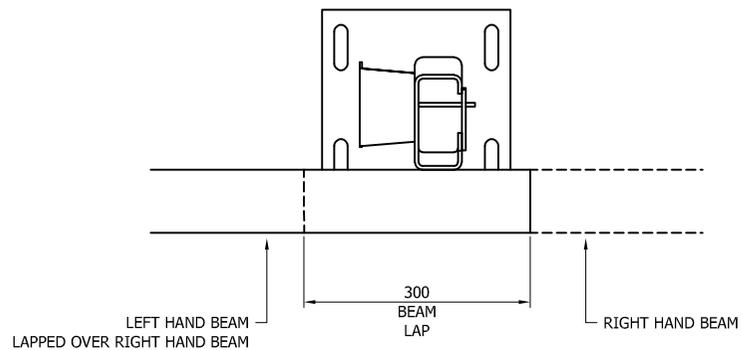
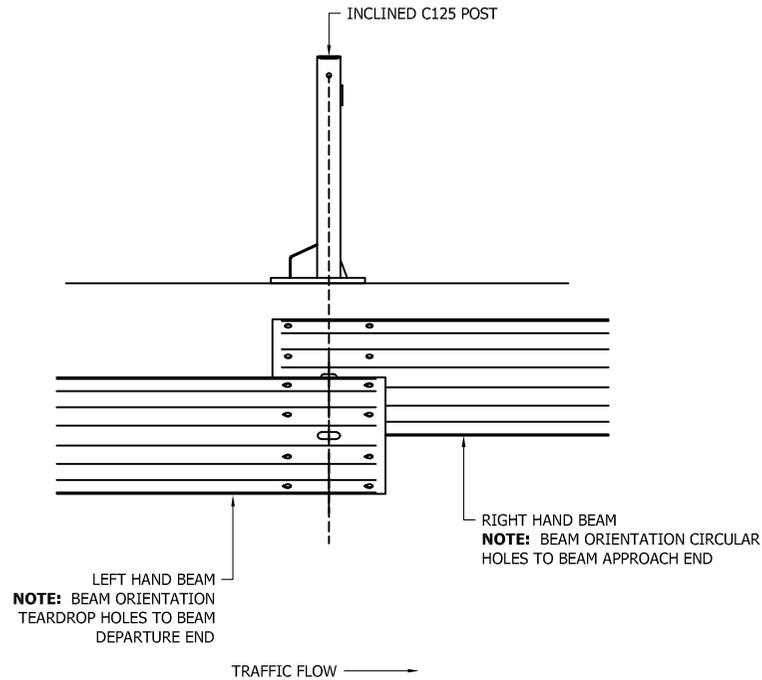
SAFEROAD®

CONCORD HOUSE,
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DRAWING NUMBER:	REV#:
H1W2-GA-02	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

REVn	DATE	DETAILS	INITIAL
03	12/02/19	TITLEBLOCK REVISED	H,B
02	31/01/17	DETAILS REVISED	L,L
1.1	20/05/15	DETAILS REVISED	M,T

MegaRail bs H1 W2 (VI 3)

H1.W2 VEHICLE RESTRAINT SYSTEM.
BEAM LAPPING DETAIL FOR H1 A W2 SYSTEM.

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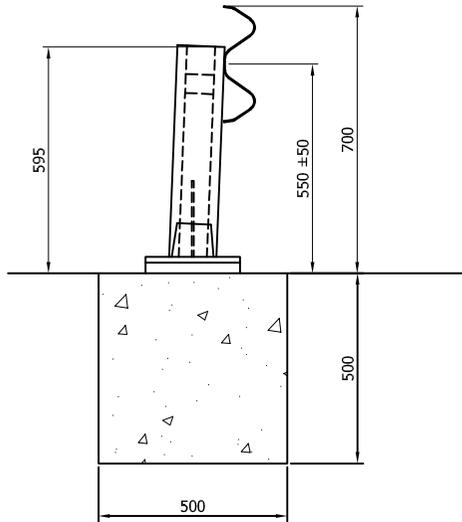
CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119
e: john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

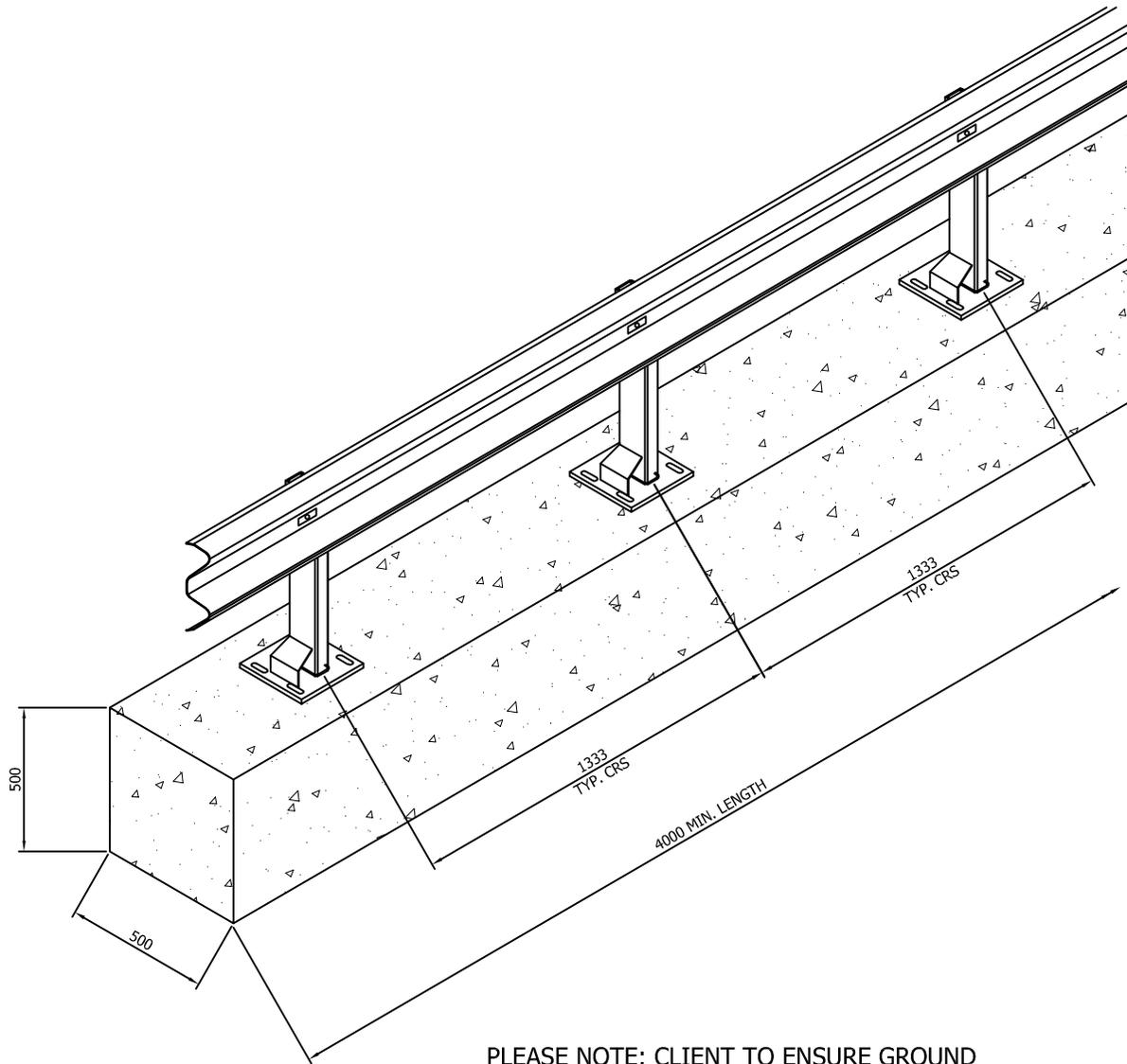
H1W2-GA-03

REVn:

03



TYPICAL SECTION THROUGH



PLEASE NOTE: CLIENT TO ENSURE GROUND CONDITIONS ARE SUITABLE PRIOR TO INSTALLATION. IF UNSURE PLEASE SEEK ADVICE

MINIMUM CONCRETE GRADE: ST5 C20/C25

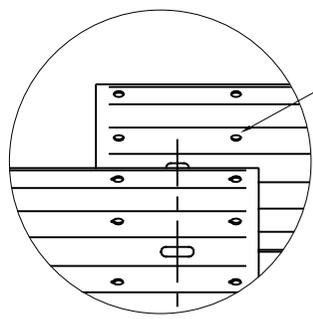
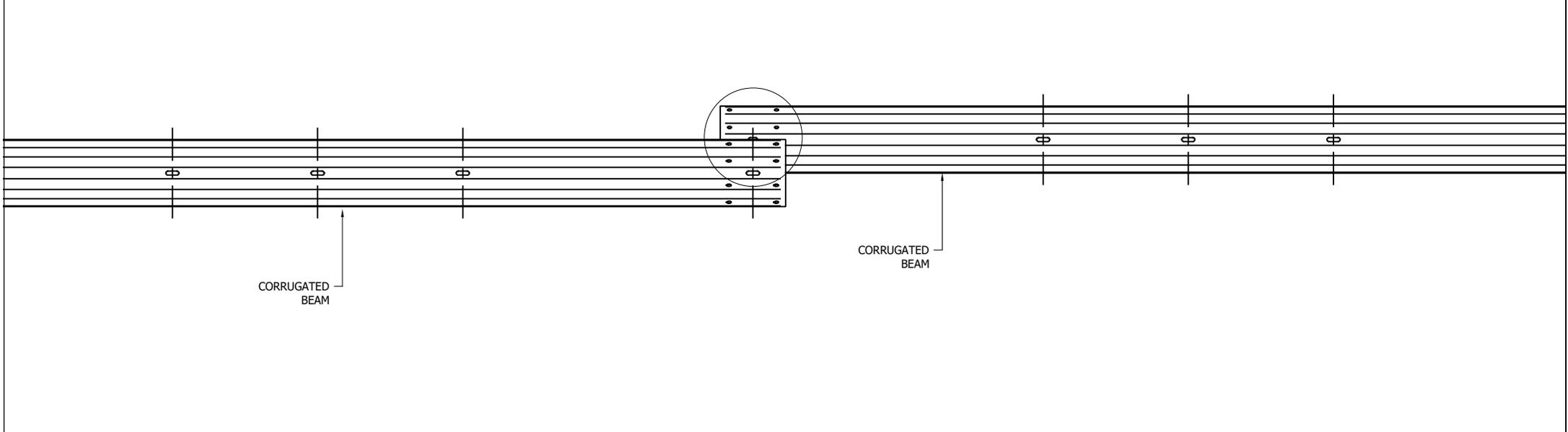
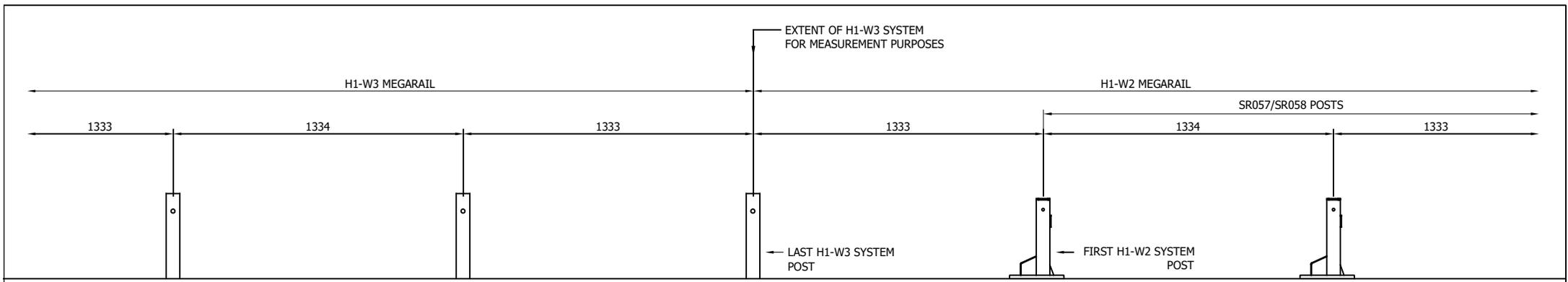
REV#	DATE	DETAILS	INITIAL
02	31/01/17	DETAILS REVISED	L.L
1.4	20/05/15	DETAILS REVISED	M.T

MegaRail bs H1 W2 (VI 3)

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DRAWING NUMBER:	REV#:
H1W2-GA-04	02



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

MegaRail bs H1 W2 (VI 3)

H1.W2 VEHICLE RESTRAINT SYSTEM.
 H1-W3 INTO H1-W2 SYSTEM
 PROGRESSION CONNECTION DETAIL

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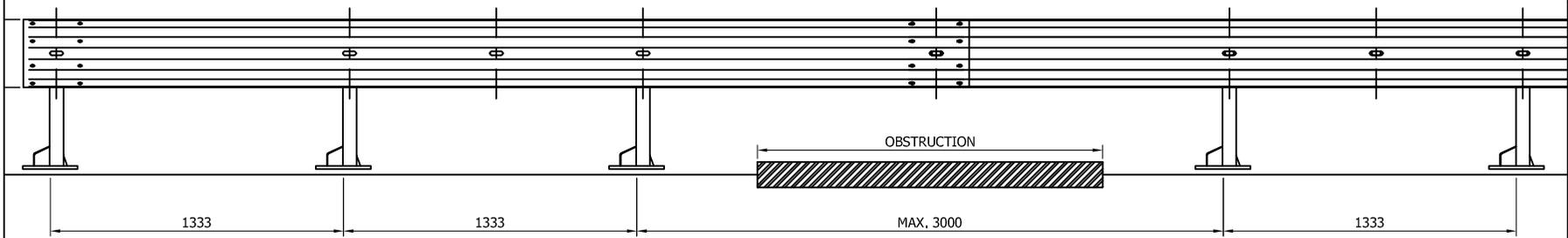
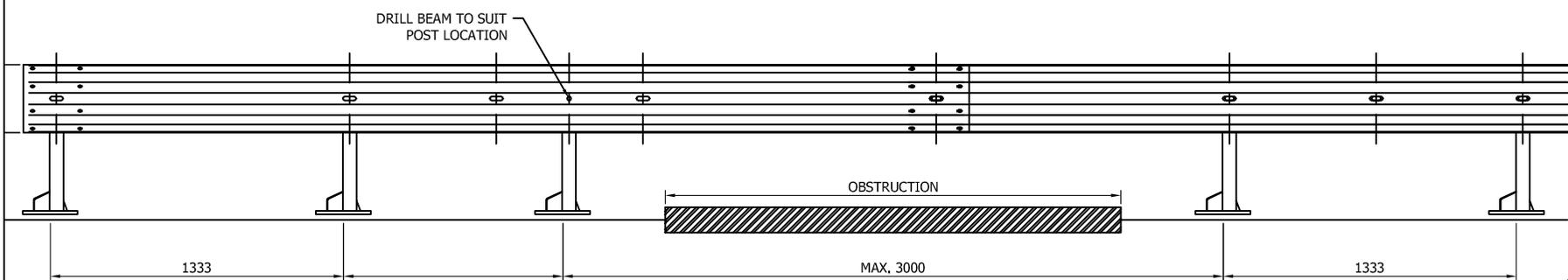
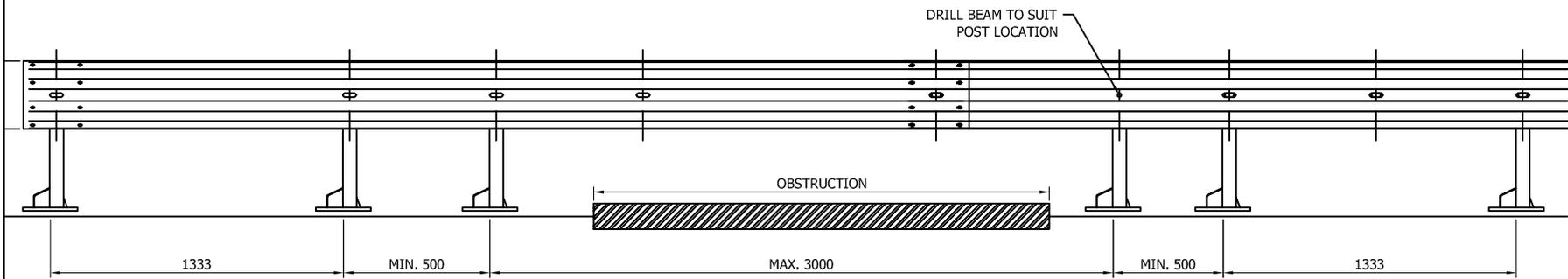
REVn	DATE	DETAILS	INITIAL
03	26/05/21	DETAILS REVISED	M.T
02	12/02/19	TITLEBLOCK REVISED	H.B
01	10/03/17	POST SPACING REVISED	L.L
00	31/01/17	NEW DRAWING	L.L

DRAWING NUMBER:	REVn:
H1W2-GA-20	03

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

GENERAL NOTES:

- 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. THE NEW POST SPACING MUST NOT EXCEED 3000mm AND MUST NOT BE LESS THAN 500mm, 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.



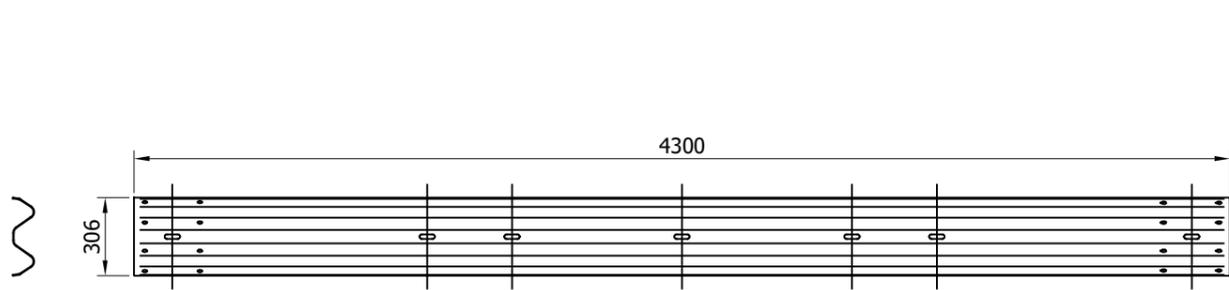
REVn	DATE	DETAILS	INITIAL
02	12/02/19	MINOR CHANGES AND TITLEBLOCK REVISED	H.B
01	10/03/17	NOTES REVISED	L.L
00	31/01/17	NEW DRAWING	L.L

MegaRail bs H1 W2 (VI 3)

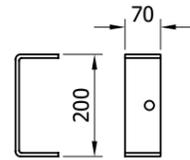
H1.W2 VEHICLE RESTRAINT SYSTEM
DEVIATION SETTING OUT
ARRANGEMENT

SAFEROAD®
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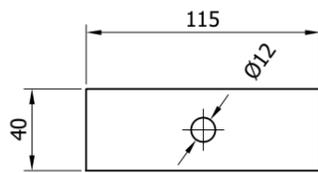
DRAWING NUMBER: H1W2-GA-40	REVn: 02
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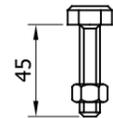
SR028 - A PROFILE 3mm BEAM



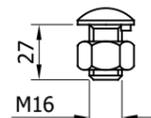
004.00 - SUPPORT BRACKET



SR152 - WASHER PLATE
115 x 40 x 5 DIA. 12



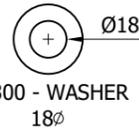
SR204 - SETSCREW 4.6
M10x45 c/w NUT



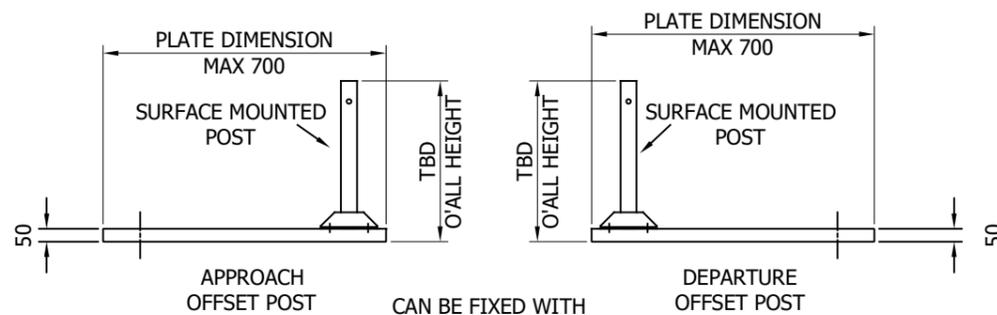
SR200 - SETSCREW 4.6
LIP M16x27 c/w NUT



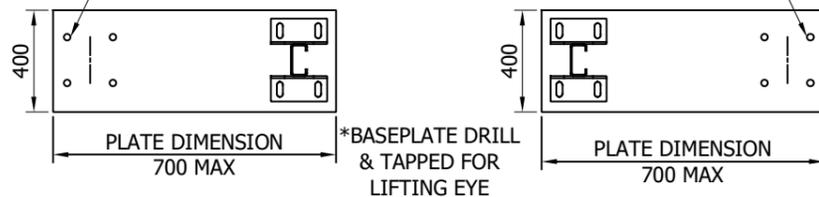
SR301 - M10
WASHER 11Ø
HOLE



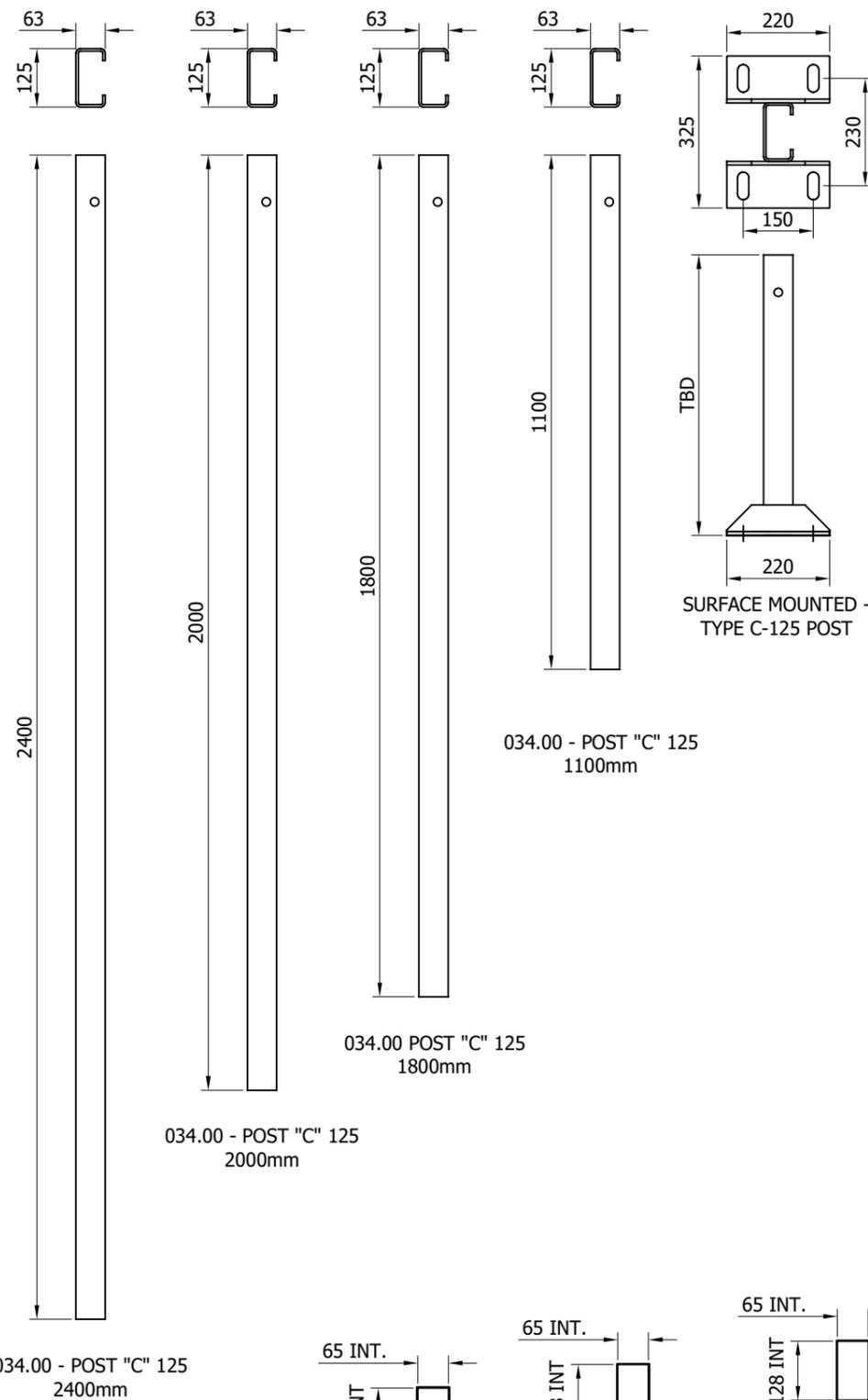
SR300 - WASHER
18Ø



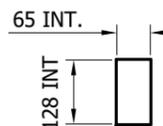
CAN BE FIXED WITH
CAST IN ANCHORS, DRILL
AND FIX ANCHORS OR
PUSHED IN ANCHORS
AT 180x180 CENTERS



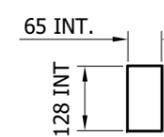
*BASEPLATE DRILL
& TAPPED FOR
LIFTING EYE



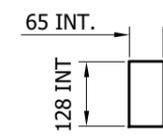
034.00 - POST "C" 125
2400mm



SR080 - C-125
POST SOCKET
x 470



SR081 - C-125
POST SOCKET
x 520



SR083 - C-125
POST SOCKET
x 570



SR100 - A21
REINFORCING
RING

REVn	DATE	DETAILS	INITIAL
02	31/05/22	OFFSET PLATE DETAIL CHANGED	A.D
01	25/05/22	SURFACE MOUNTED POST BASE CHANGED	A.D
00	15/01/20	DRAWING CREATED	M.T

Super-Rail ES 1.0 L1 W2

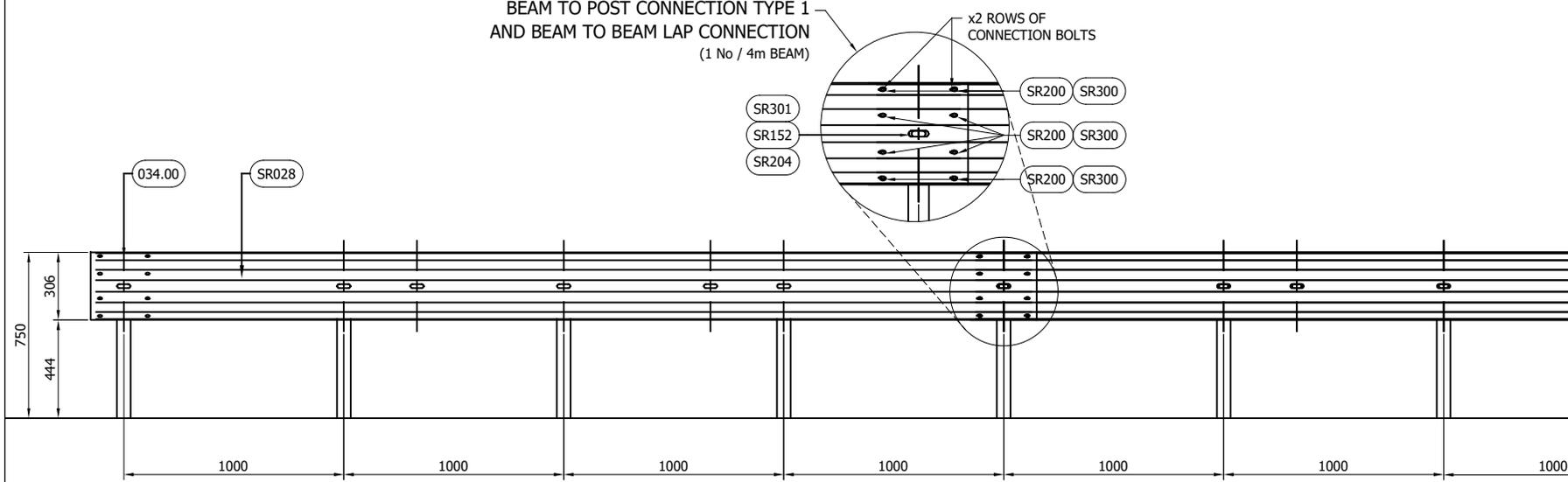
VEHICLE RESTRAINT SYSTEM
COMPONENTS SCHEMATIC

SAFEROAD®

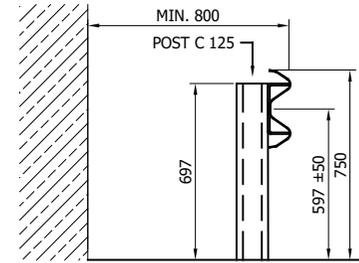
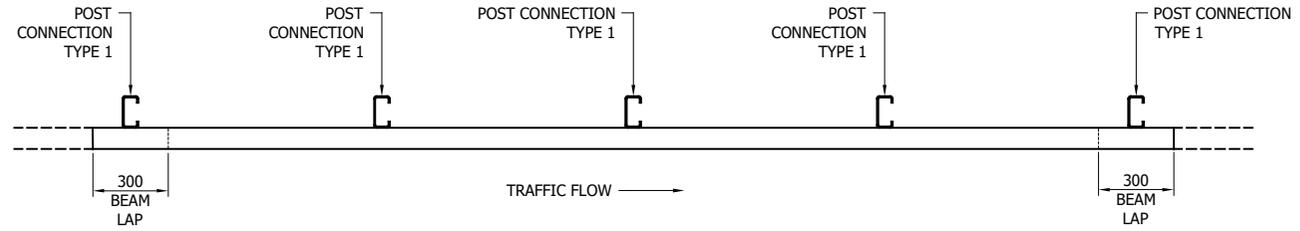
CONCORD HOUSE,
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t: 01724 289119
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:	REVn:
SRL1W2-GA-00	02

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



- GENERAL NOTES:**
1. P.S.B. = POINT FROM WHERE SET-BACK IS MEASURED.
 2. POSTS ARE TO BE INSTALLED WITH THE CLOSED FACE OF THE CHANNEL TOWARDS THE ON-COMING TRAFFIC.
 3. FOR OPTIONS ON POST FOUNDATIONS REFER TO DRAWING NUMBER MR-GA-020
 4. FOR DEVIATIONS IN SYSTEM POST PITCH REFER TO DRAWING SRL1W2-GA-40
 5. WHEN TYING INTO ADJACENT VRS ONLY ONE WORKING WIDTH DIFFERENCE IS PERMITTED.
 6. WHERE A KERB IS PRESENT THE MAXIMUM KERB HEIGHT IS 100mm. SHOULD THE KERB BE HIGHER THAN 100mm AND THE FENCE IS SETBACK LESS THAN 250mm FROM FACE OF KERB THE SYSTEM HEIGHT IS MEASURED FROM THE CARRIAGEWAY. IF THE SETBACK IS MORE THAN 250mm FROM THE FACE OF KERB THE SYSTEM HEIGHT IS MEASURED FROM THE TOP OF THE KERB. SEE MR-GA-002.
 7. FOR MINIMUM LENGTH OF FULL HEIGHT VRS REFER TO SAFEROAD MEGARAIL MANUAL.



00	15/01/20	DRAWING CREATED	M.T
REVn	DATE	DETAILS	INITIAL

**Super-Rail ES 1.0
L1 W2**

VEHICLE RESTRAINT SYSTEM
ASSEMBLY AND SETTING OUT
ARRANGEMENT

SAFEROAD®

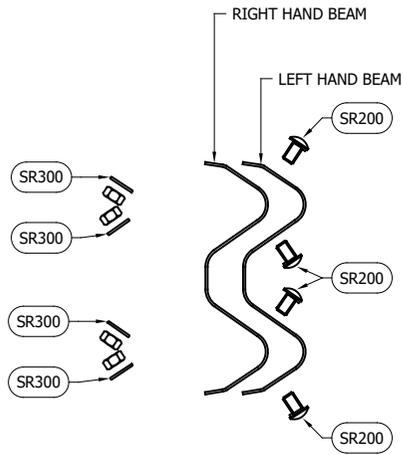
CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

TABLE 'A' - SYSTEM COMPONENT SCHEDULE - QUANTITIES / 4m BEAM

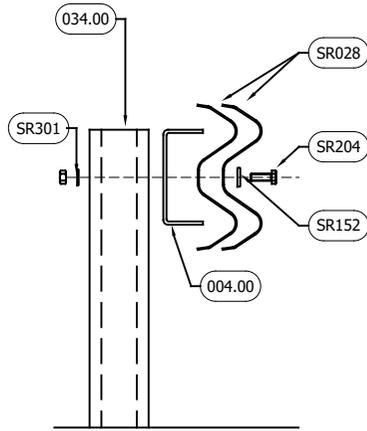
SAFEROAD UK PART NUMBER	DESCRIPTION	QUANTITY
SR028	BEAM "A" PROFILE 3mm	1
034.00	POST "C" 125	4

FOR SCHEDULE OF BOLTED CONNECTIONS REFER TO DRAWING NUMBER SRL1W2-GA-02

DRAWING NUMBER:	REVn:
SRL1W2-GA-01	00



BEAM TO BEAM CONNECTION
ARRANGEMENT
(x2 LOCATIONS / BEAM END)



BEAM TO POST
CONNECTION TYPE 1

GENERAL NOTES:

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

BOLTING COMPONENT SCHEDULE - QUANTITIES / BEAM		
SAFEROAD UK PART NUMBER	DESCRIPTION	BEAM TO BEAM CONNECTION
SR200	SETSCREW 4.6 LIP M16x27 c/w NUT	8 (+8)
SR300	WASHER M16 18Ø HOLE	8 (+8)

BOLTING COMPONENT SCHEDULE - QUANTITIES / POST		
SAFEROAD UK PART NUMBER	DESCRIPTION	TYPE 1 CONNECTION
SR204	SETSCREW 4.6 M10 x 45 c/w NUT	1
SR152	WASHER PLATE 115 x 40 x 5 DIA. 12	1
SR301	WASHER M10 12Ø HOLE	1

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

00	15/01/20	DRAWING CREATED	M.T
REVn	DATE	DETAILS	INITIAL

Super-Rail ES 1.0 L1 W2

VEHICLE RESTRAINT SYSTEM
BOLTING ARRANGEMENTS

SAFEROAD®

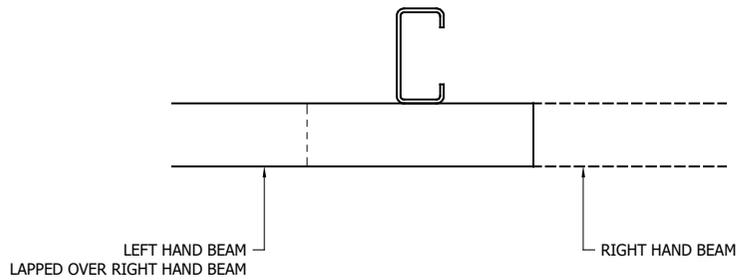
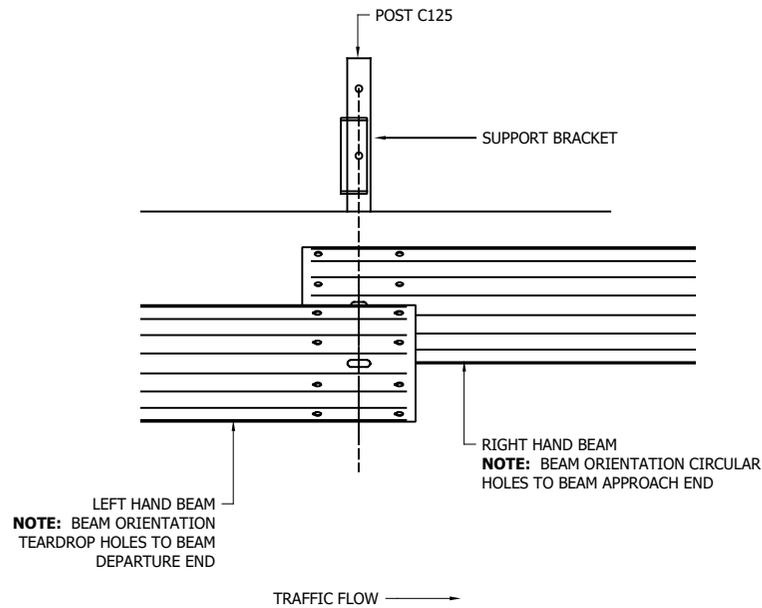
CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119

FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:	REVn:
SRL1W2-GA-02	00

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

00	15/01/20	DRAWING CREATED	M.T
REVn	DATE	DETAILS	INITIAL

Super-Rail ES 1.0 L1 W2

VEHICLE RESTRAINT SYSTEM.
BEAM LAPPING DETAIL FOR L1W2
SUPER-RAIL ES 1.0 SYSTEM

SAFEROAD®

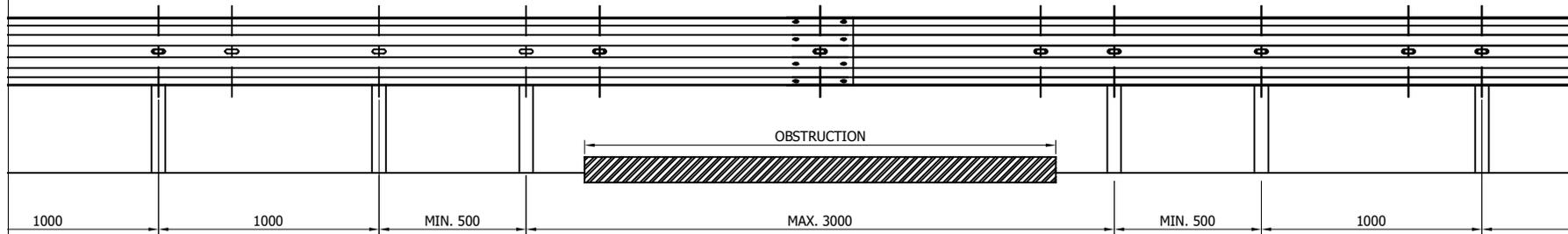
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BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119

FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:	REVn:
SRL1W2-GA-03	00

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. THE NEW POST SPACING MUST NOT EXCEED 3000mm AND MUST NOT BE LESS THAN 500mm. 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 SRN2W2-GA-00 CAN BE USED. INSERT THE ORIGINAL POST SPACING INSTEAD OF 3000mm



00	15/01/20	DRAWING CREATED	M.T
REVn	DATE	DETAILS	INITIAL

Super-Rail ES 1.0 L1 W2

VEHICLE RESTRAINT SYSTEM
DEVIATION SETTING OUT
ARRANGEMENT

SAFEROAD®

CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119

FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

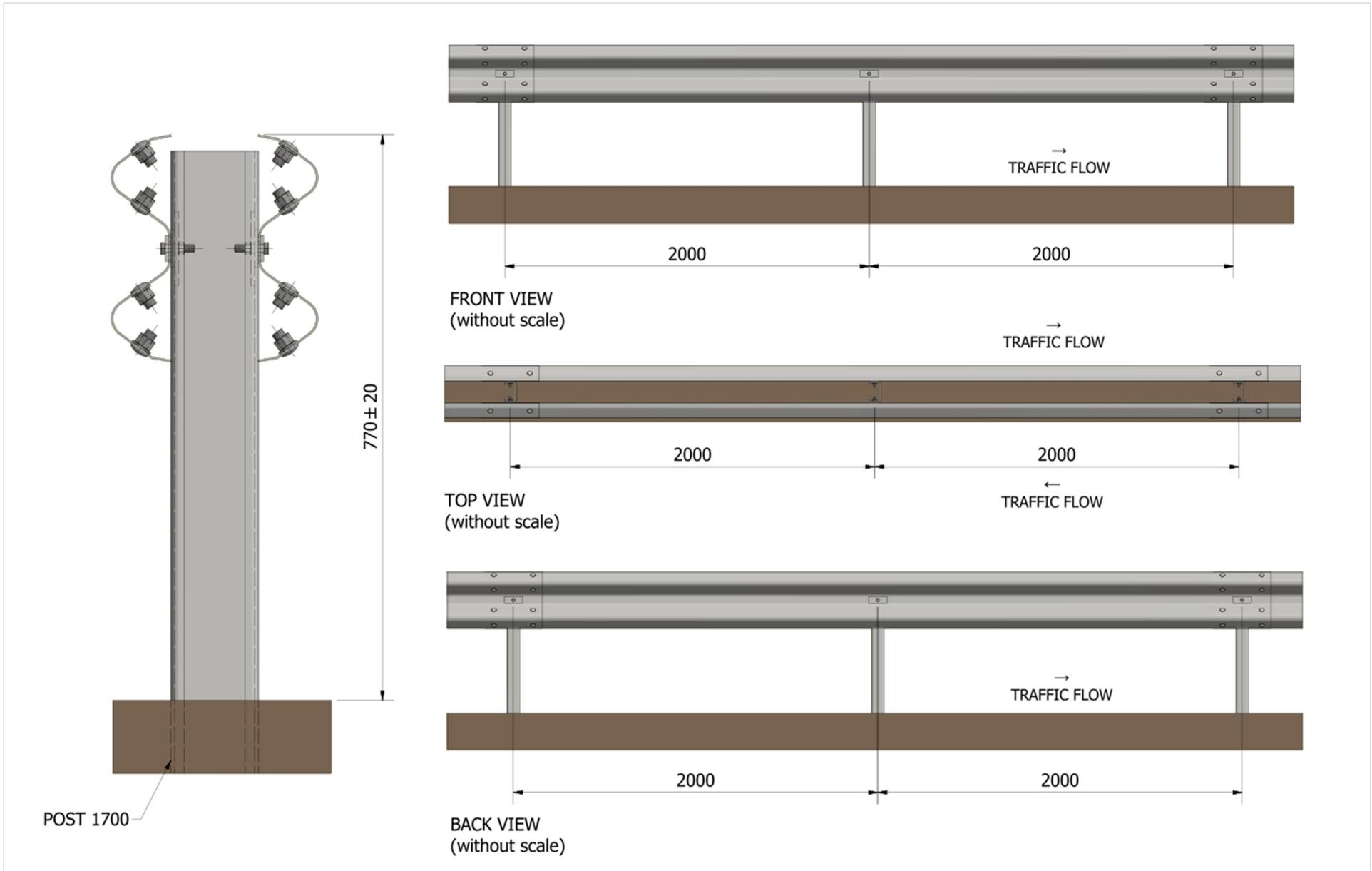
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SRL1W2-GA-40	00

BMIDH1C2

Double sided safety barrier



BARRIER

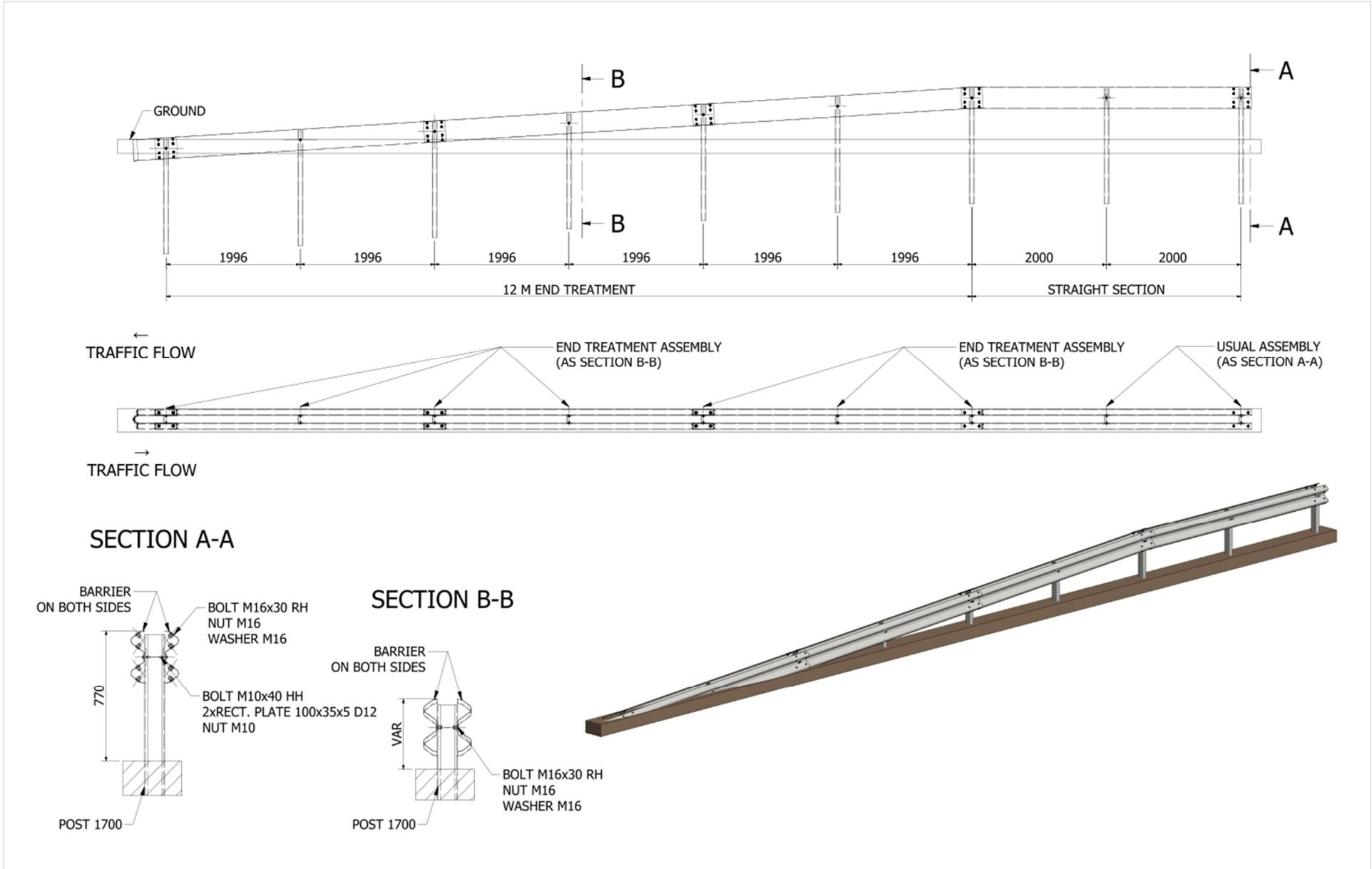


BMIDH1C2

Double sided safety barrier



12m END TREATMENT TO GROUND

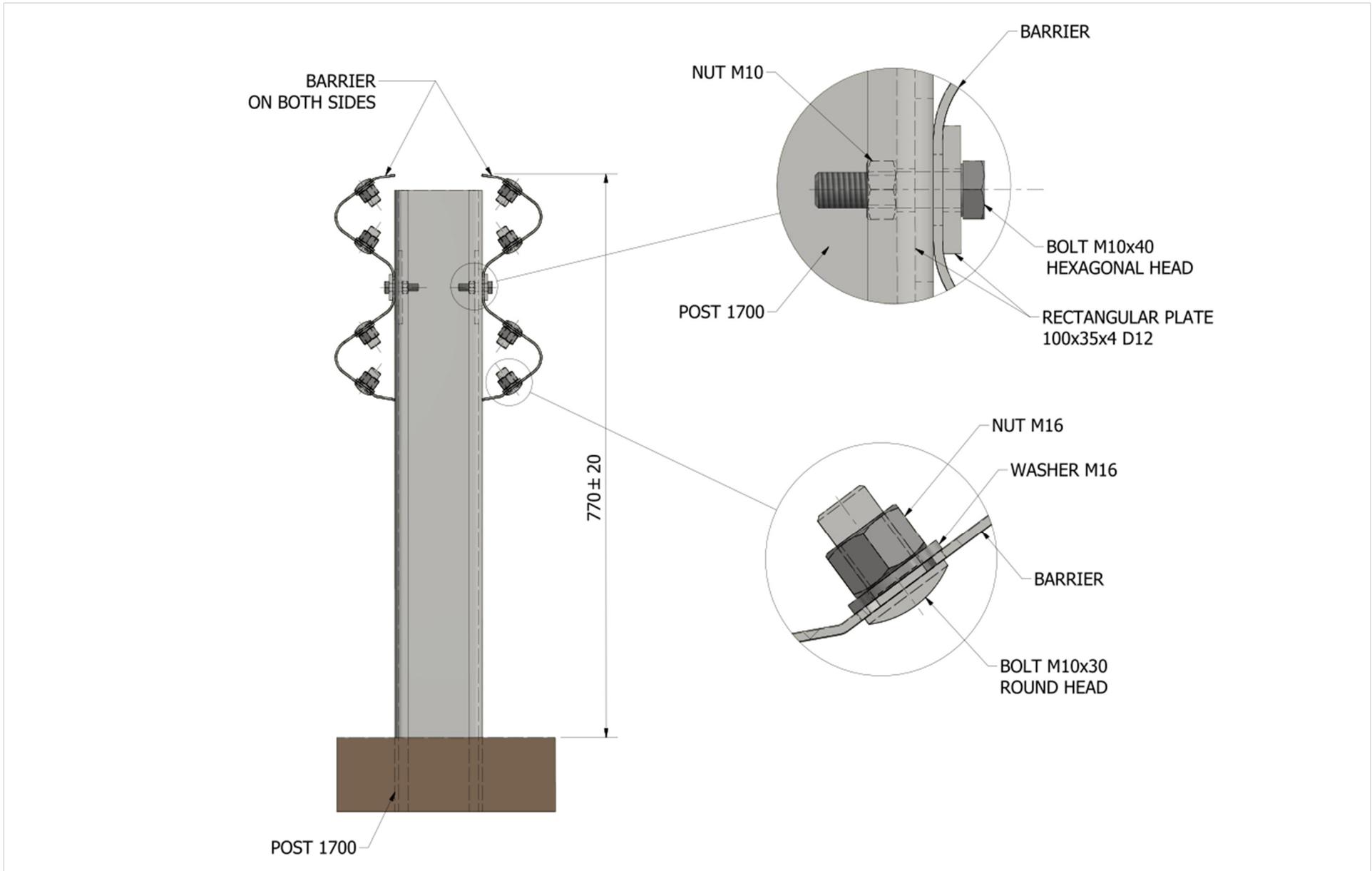


BMIDH1C2

Double sided safety barrier



JOINTS

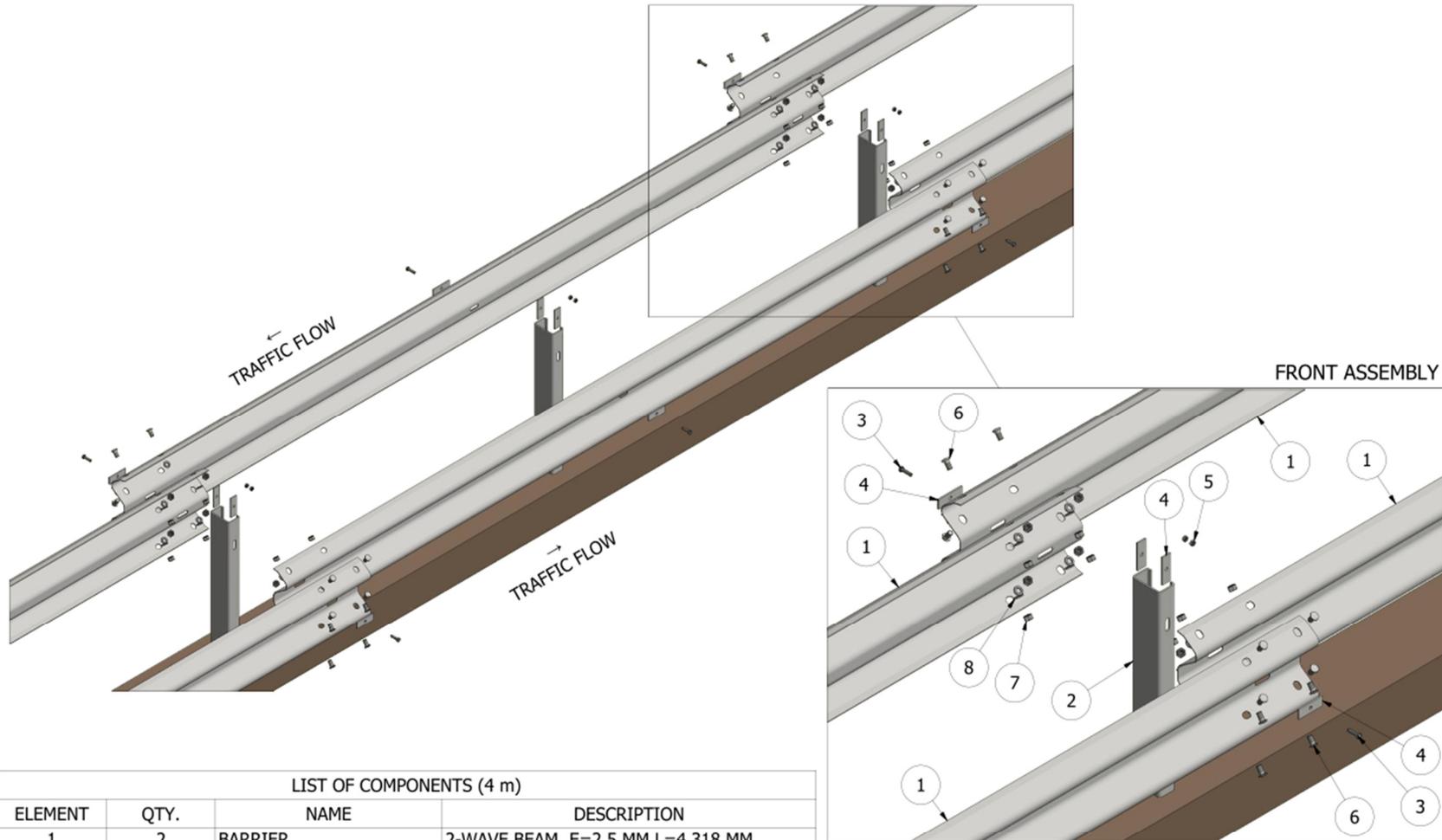


BMIDH1C2

Double sided safety barrier



ASSEMBLY



LIST OF COMPONENTS (4 m)			
ELEMENT	QTY.	NAME	DESCRIPTION
1	2	BARRIER	2-WAVE BEAM E=2,5 MM L=4,318 MM
2	2	POST	C120x68x18x5 L=1700 MM
3	4	BOLT M10x40	HEXAGONAL HEAD - ISO 4017
4	8	PLATE	RECTANGULAR - 100x35x5 D12
5	4	NUT M10	HEXAGONAL - ISO 4032
6	16	BOLT M16x30	ROUND HEAD M16x30
7	16	NUT M16	HEXAGONAL - ISO 4032
8	16	WASHER M16	FLAT - ISO 7089

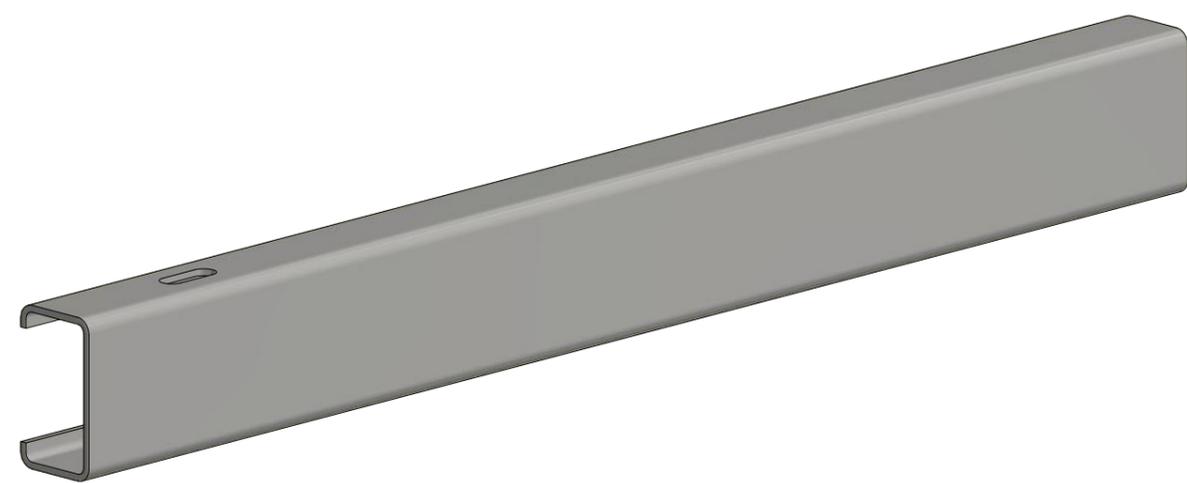
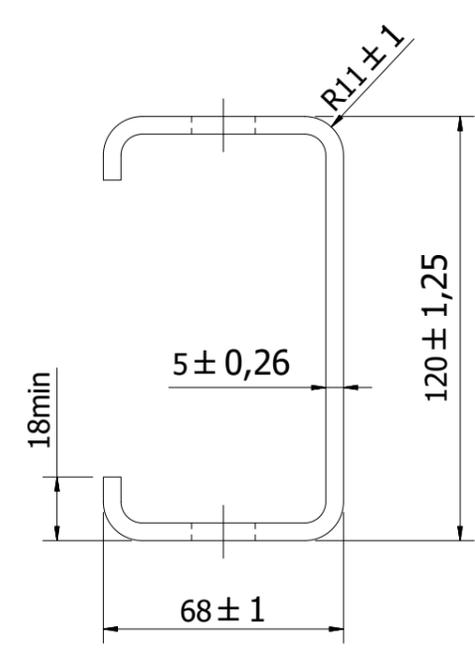
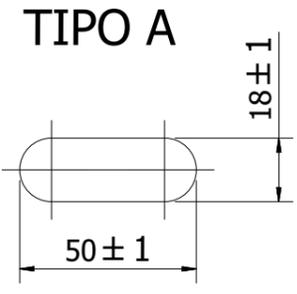
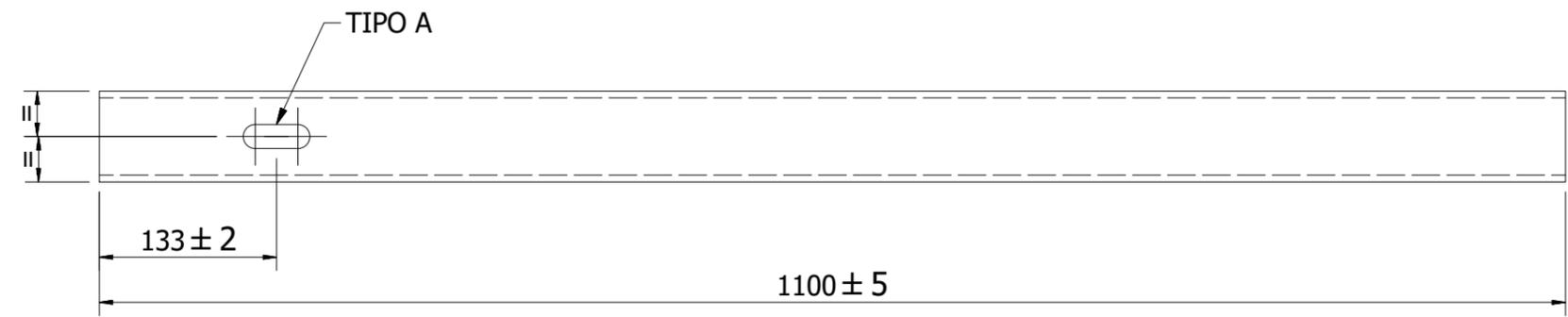
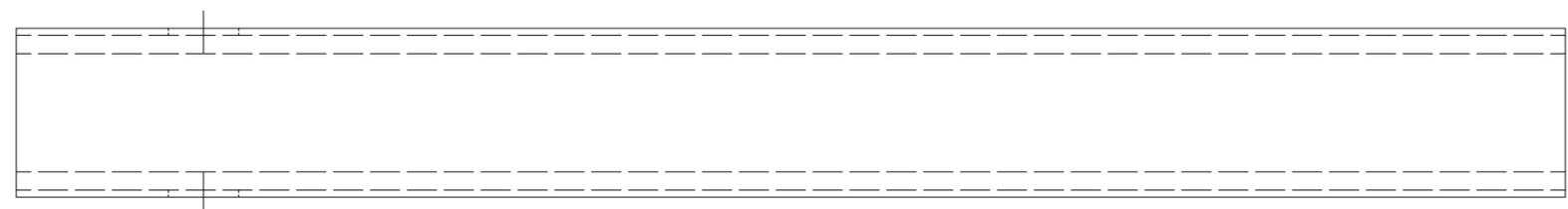
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A A

B B

C C

D D

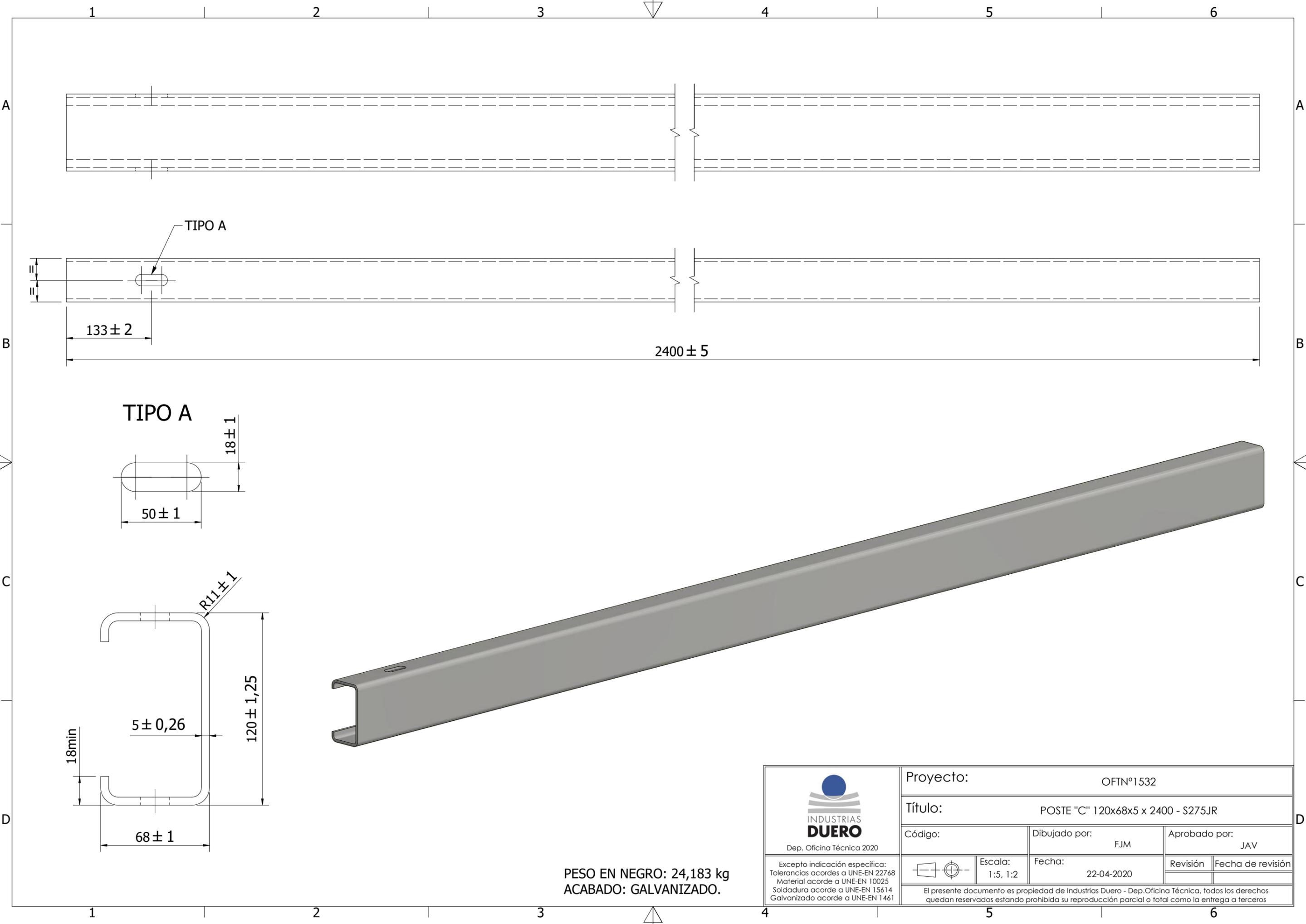


PESO EN NEGRO: 11,048 kg
ACABADO: GALVANIZADO.

ELEMENTO	Nº DE PIEZA	DESCRIPCIÓN	MATERIAL	MASA
1	POSTE	C120x68x18x5 L=1100 MM	S275JR	11,048 kg

 INDUSTRIAS DUERO Dep. Oficina Técnica 2018	Proyecto: OFTNº1370		
	Título: POSTE "C" 120x68x5 x 1100 - S275JR		
	Código:	Dibujado por: FJM	Aprobado por: JAV
	 Escala: 1:5, 1:2 Fecha: 12-08-2019	Revisión	Fecha de revisión
Excepto indicación específica: Tolerancias acordes a UNE-EN 22768 Material acorde a UNE-EN 10025 Soldadura acorde a UNE-EN 15614 Galvanizado acorde a UNE-EN 1461 El presente documento es propiedad de Industrias Duero - Dep. Oficina Técnica, todos los derechos quedan reservados estando prohibida su reproducción parcial o total como la entrega a terceros			

1 2 3 4 5 6

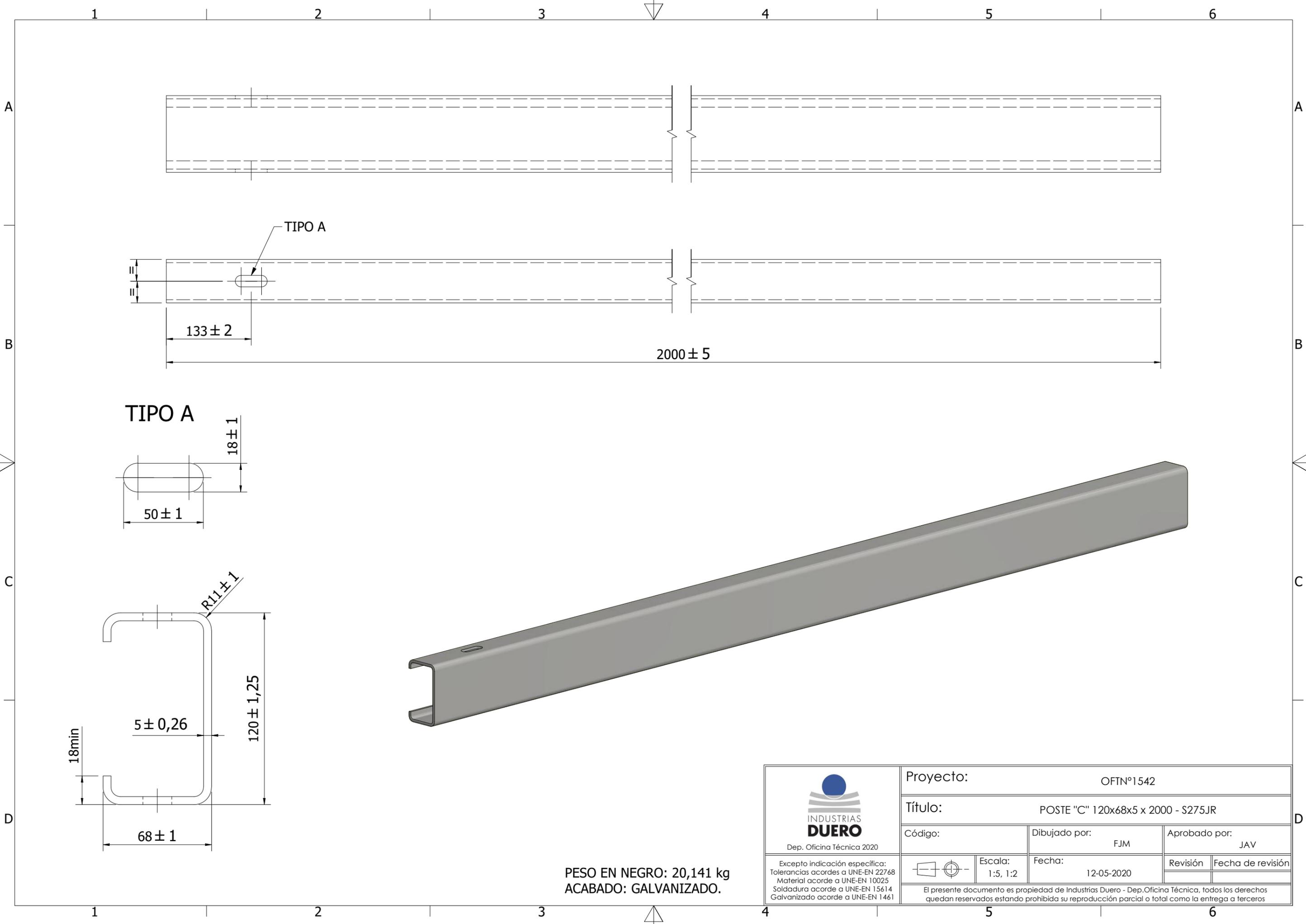


TIPO A

TIPO A

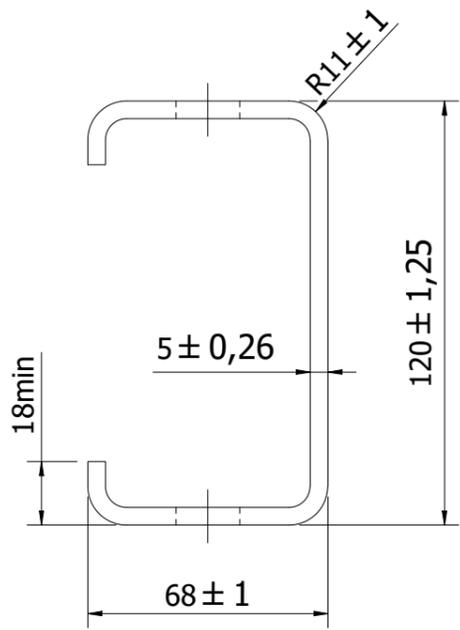
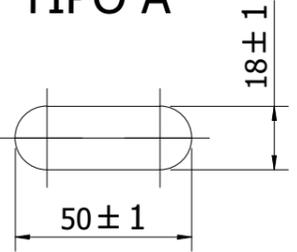
PESO EN NEGRO: 24,183 kg
ACABADO: GALVANIZADO.

 INDUSTRIAS DUERO Dep. Oficina Técnica 2020	Proyecto: OFTN°1532		
	Título: POSTE "C" 120x68x5 x 2400 - S275JR		
	Código:	Dibujado por: FJM	Aprobado por: JAV
	 Escala: 1:5, 1:2 Fecha: 22-04-2020	Revisión	Fecha de revisión
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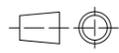


TIPO A

TIPO A



PESO EN NEGRO: 20,141 kg
ACABADO: GALVANIZADO.

 INDUSTRIAS DUERO Dep. Oficina Técnica 2020	Proyecto: OFTN°1542		
	Título: POSTE "C" 120x68x5 x 2000 - S275JR		
	Código:	Dibujado por: FJM	Aprobado por: JAV
	 Escala: 1:5, 1:2 Fecha: 12-05-2020	Revisión	Fecha de revisión
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INSTALLATION PROCEDURE

This document describes the procedure to follow for the installation of the H1 double sided safety barrier with posts every 2 metres. The installation consists of the following stages:

1. Material distribution and preparation.
2. H1 barrier assembly.
3. 12 m end terminal assembly.
4. Barrier disassembly.

1.- Material distribution and preparation.

1. Unload the materials which make up the system longitudinally along the length of the section where it is to be installed
2. Post-driving machine guided by barrier elements:
 - a. Place the elements face up and overlapping so that the drill holes of the double wave beams coincide with the edge of the road to be protected and spaced from the post-driving line a minimum of 40 cm and a maximum of 70 cm.
 - b. Align the beams on the ground.

Post-driving machine with automatic guiding system:

Lay out the post-driving line according to the final position of the barrier on the ground plan.

2.- Driving the posts and assembling the components

1. Place the guide wheels of the post-driving machine in the previously aligned beams.
2. Lay out the post-driving distance as compared to the ground plan position of the barrier on the road: 201 mm from the rear face of the post.
3. Drive the C120x68x18x5x1700 mm posts every 2000 \pm 55 mm at a height of 748 mm measured from the road level.
4. Assemble the overlapping of the 2-wave beams nearest to the carriageway. The final position of the beam overlaps will be such that the 2-wave beam seen from the direction of the traffic flow must overlap the one immediately after it and there are no protrusions in the safety barrier.
5. Fasten the central mounting hole of the post with an M10x40 5.8 hexagonal head bolt, two 100x35x5 plates (one placed horizontally between the head of the bolt and the beam and the other vertically between the post and the nut), an M10-5 nut at the back tightened to 20 \pm 4 Nm torque.

6. Fasten the overlap (without tightening) using 8 M16x30 8.8 round head bolts and M16-8 nuts + 17x35x4 rear washers. The height of the upper part of the barrier relative to the road level must be 770 ± 20 mm.
7. Level the beam and tighten the M16x30 8.8 bolts with a torque of 150 ± 10 Nm.
8. Assemble the overlapping of the 2-wave beams furthest to the carriageway. The final position of the beam overlaps will be opposite to the one previously installed on the other side.
9. Fasten the central mounting hole of the post with an M10x40 5.8 hexagonal head bolt, two 100x35x5 plates (one placed horizontally between the head of the bolt and the beam and the other vertically between the post and the nut), an M10-5 nut at the back tightened to 20 ± 4 Nm torque.
10. Fasten the overlap (without tightening) using 8 M16x30 8.8 round head bolts and M16-8 nuts + 17x35x4 rear washers. The height of the upper part of the barrier relative to the road level must be 770 ± 20 mm.
11. Level the beam and tighten the M16x30 8.8 bolts with a torque of 150 ± 10 Nm.

3.- 12 m end terminal assembly.

1. Drive the posts so that the distance between them is 1996 mm in elevation and the height is such that the upper part of the end of the terminal piece is at the road level.
2. Install the buffer end piece at the end of the last two parallel beams using 16 M16x30 8.8 round head bolts and M16-8 nuts + 17x35x4 rear washers with a tightening torque of 150 ± 10 Nm.
3. Fasten the remaining beams with 8 M16x30 8.8 round head bolts and M16-8 nuts + 17x35x4 rear washers with a tightening torque of 150 ± 10 Nm.
4. Excavate the ditch at the end of the section to house the buffer end element and part of the last two parallel beams.
5. Place the beams into the ground and fasten them to the posts with M16x30 8.8 round head bolts and M16-8 nut + 17x35x4 rear washer with a tightening torque of 150 ± 10 Nm.

4.- Barrier disassembly

1. Remove all the fastening elements of the barrier overlaps (M16X30 8.8).
2. Unfasten the bolts and nuts that join the beams to the posts.
3. Remove the beams.
4. Take the posts out of the ground.

TIGHTENING TORQUES

The following table contains the tightening torques for the various joints of the Double Sided Safety Barrier, indicating the components involved and the type of bolt used for each one:

DESCRIPTION OF THE JOINT	TYPE OF BOLT	TIGHTENING TORQUE (Nm)
2-WAVE BEAM / 2 WAVE BEAM (also in terminals)	Round-head Bolt M16x30-8.8 / C4-00202	150±20
2-WAVE BEAM / BUFFER END	Round-head Bolt M16x30-8.8 / C4-00202	150±20
2-WAVE BEAM / RECTANGULAR PLATE 100x35x5 / POST	Hexagonal-head Bolt M10x40-5.8 UNE-EN ISO 4017	20±4
POST / 2-WAVE BEAM (in terminals)	Round-head Bolt M16x30-8.8 / C4-00202	150±20

BMIDH1C2*H1 Double Sided Safety Barrier. Component Weights.***COMPONENT WEIGHTS**

SAFETY BARRIER BMIDH1C2		
CODE	DESCRIPTION	GALVANIZED WEIGHT (kg)
C4-00192	FLAT WASHER 17X35x4	0,025
C3-00199	POST C120x68x18x5 L=1700mm	17,85
C3-00200	2-WAVE BEAM e=2,5mm	41,54
C4-00201	RECTANGULAR PLATE 100x35x5	0,135
C4-00202	M16x30 8.8 ROUND HEAD BOLT	0,085
C4-00213	M10x40 5.8 HEX BOLT	0,03
C4-00214	M10-5 HEX NUT	0,01
TC4-00284	BUFFER END	15
UNE-EN ISO 4034	M16-8 HEX NUT	0,035

NOTES ON COATINGS

The various components that make up the H1 Double Sided Safety Barrier presented in this document are hot-dip galvanized in compliance with EN ISO 1461.

The system fastening elements are hot-dip galvanized in compliance with EN ISO 10684.

The component referred to as the 100x35x5 rectangular plate has a galvanization coating thickness in compliance with EN ISO 1461 for a centrifuged sample.

WELDING SYMBOLS	

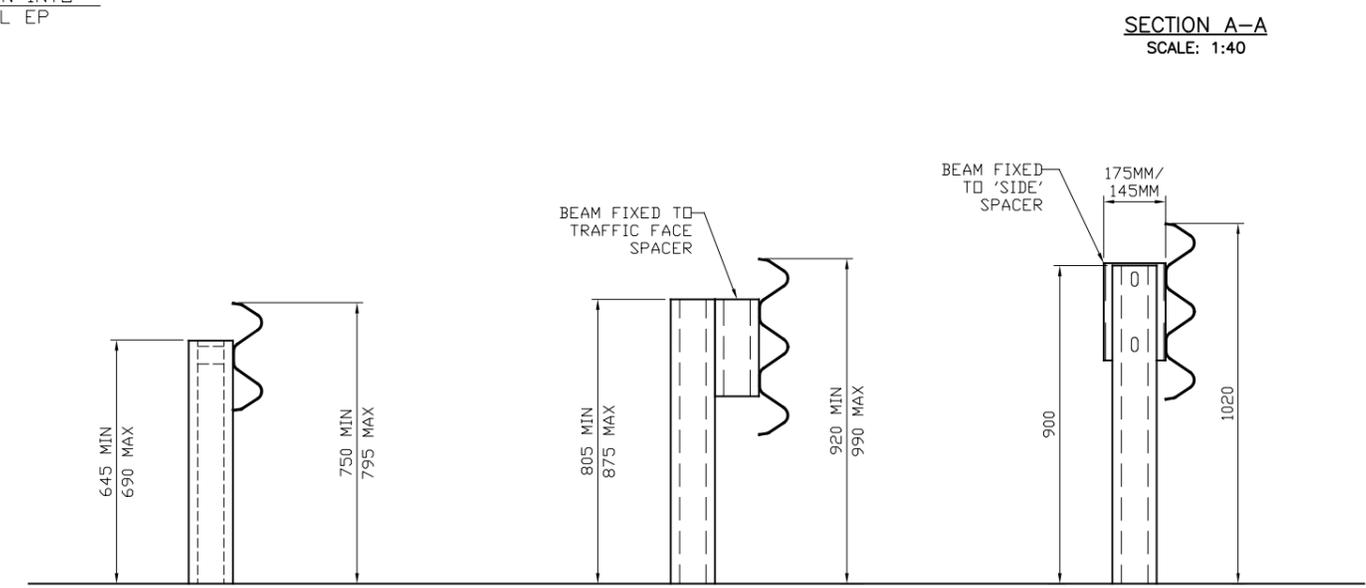
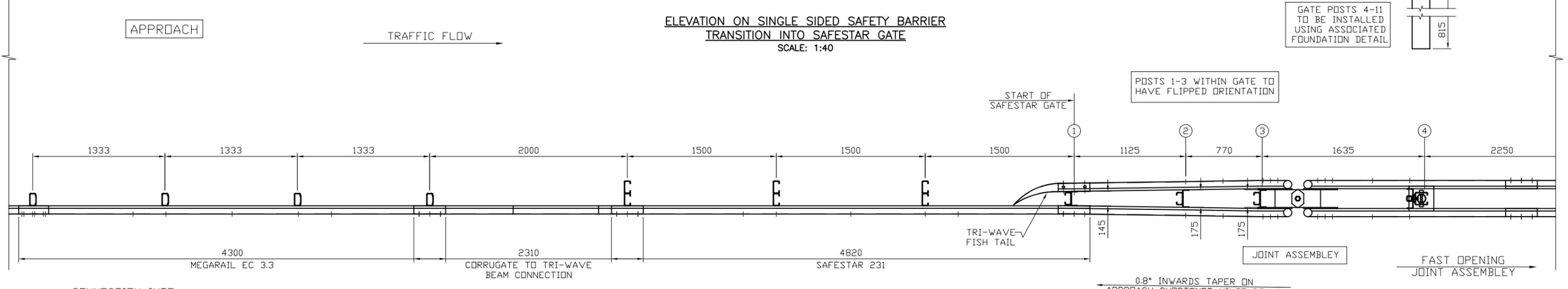
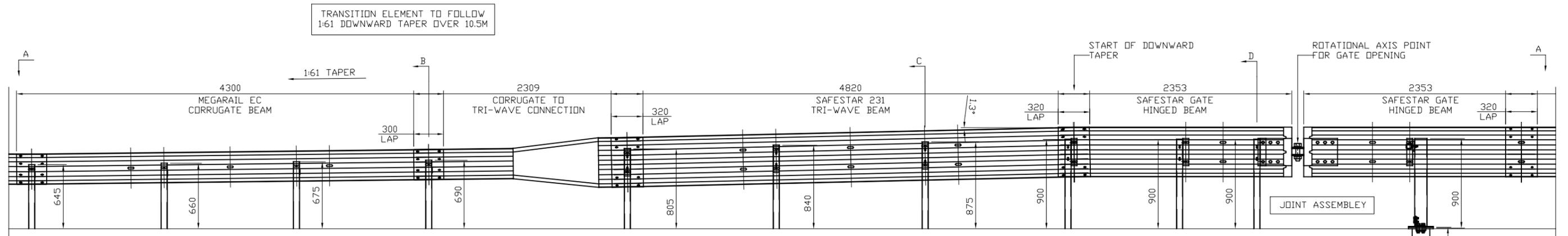
MACHINING NOTES
MACHINE WHERE MARKED BY REMOVE SHARP EDGES TOLERANCES UNLESS STATED OTHERWISE DIMENSIONAL ± 0.015(0.4mm)

FABRICATION NOTES
TOLERANCES UNLESS STATED OTHERWISE ± 0.062(1.5mm)

WELDING SPECIFICATION

IF IN DOUBT, ASK.

DRAWING NOT TO BE SCALED.



SECTION B-B
(MEGARAIL EC 3.3)
SCALE: 1:20

SECTION C-C
(SAFESTAR 231)
SCALE: 1:20

SECTION D-D
(SAFESTAR GATE 1-3 POST)
SCALE: 1:20

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
- FOR DETAILS OF MEGARAIL EC 3.3, REFER TO MEGARAIL MANUAL.
- FOR DETAILS OF SAFESTAR 231, REFER TO MEGARAIL MANUAL.
- TRANSITION TO/FROM SAFESTAR GATE TO BE TAPERED AT A RATIO OF 1:61.
- SAFESTAR GATE APPROACH HINGED BEAMS CREATE TAPER EFFECT - USE TRI-WAVE FISH TAIL IN THESE LOCATIONS WHEN CLOSING OUT TO SINGLE SIDED SYSTEM. FISH TAIL MUST BE INSTALLED ONTO OFFSIDE BEAM.
- POSTS 4-11 WITHIN GATE TO BE INSTALLED ON ASSOCIATED FOUNDATION DETAIL.
- DEPARTURE CONFIGURATION AS PER APPROACH.

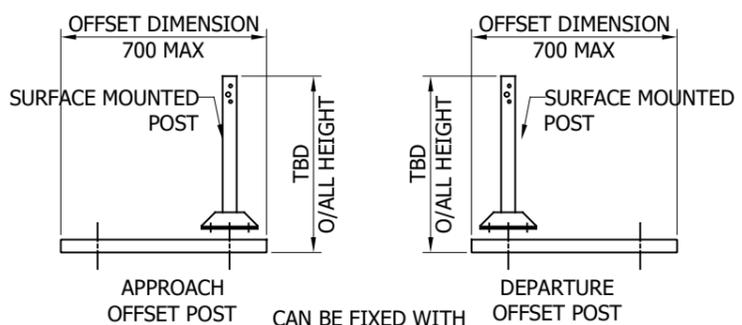
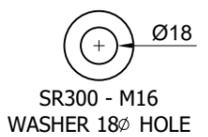
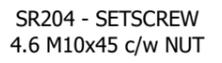
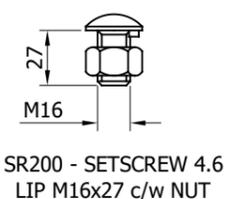
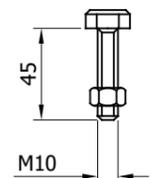
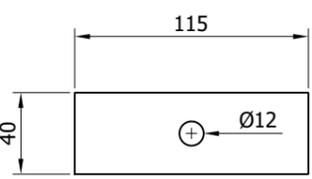
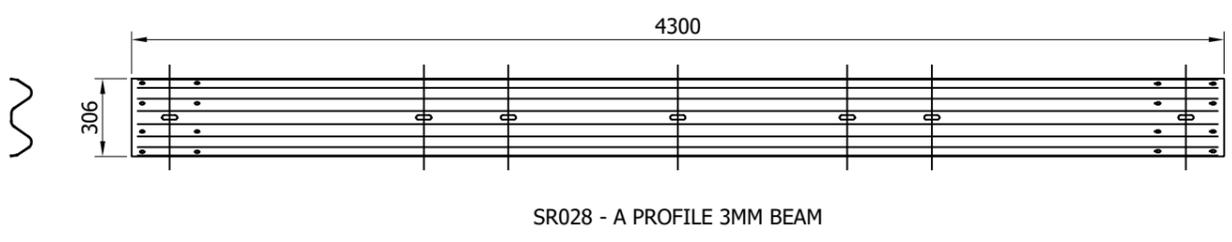
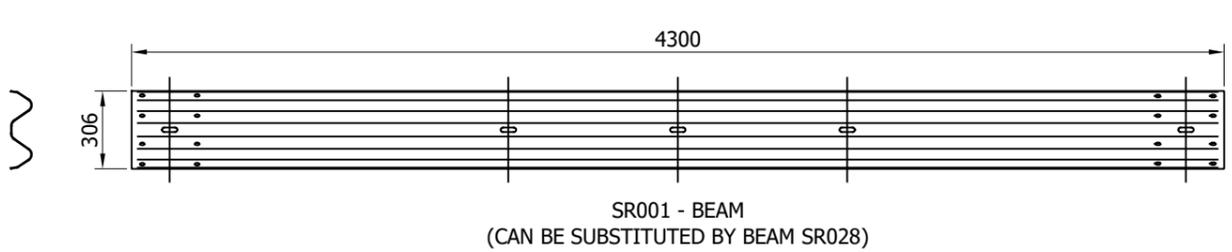


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TRANSITION TO SAFESTAR GATE
SILVERTOWN TUNNEL PROJECT

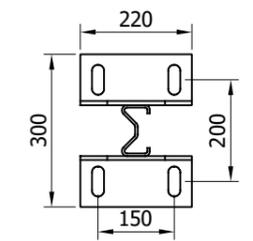
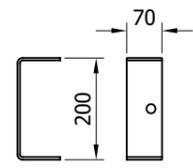
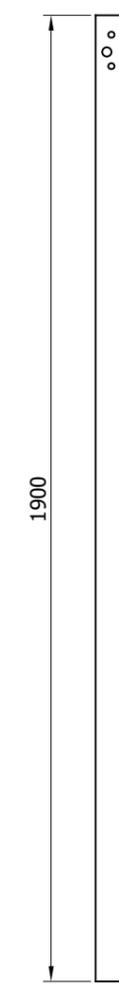
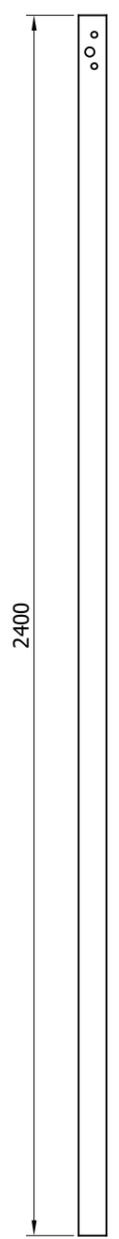
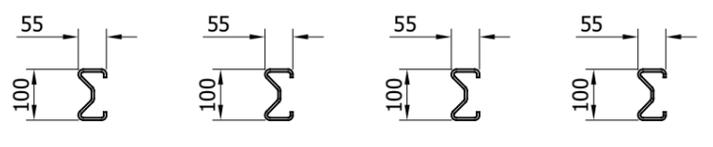
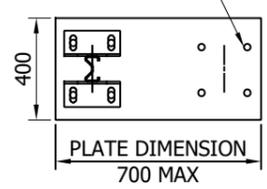
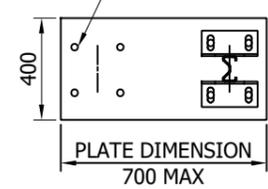
NEWTON & FROST FENCING LTD

ORDER No:-	MATL:-	DRAWN:- H.BRYDON	CHECKED:- J.C	CHECKED QA:-
ISSUE DATE:-	PROJECTION:-	DATE:- 01/11/22	SCALE:- 1:50	APPROVED:-
		DRG NO:- UK 25623		REV:- 01

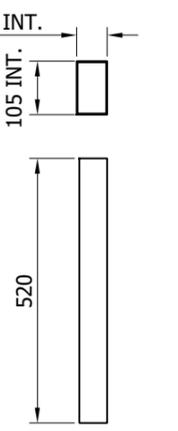
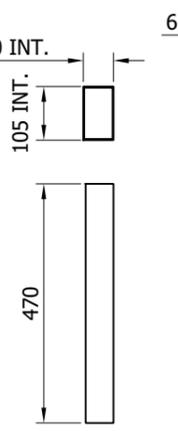
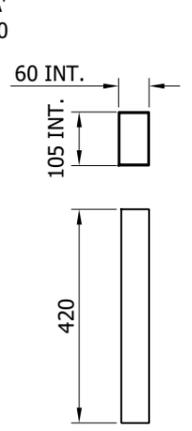
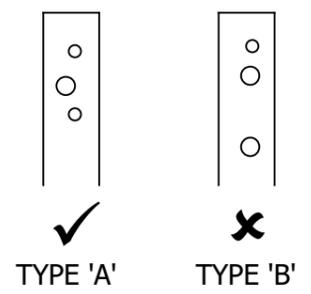
01	07/11/22	OFFSIDE BARRIER AMENDMENTS	H.B
REV.	DATE	REMARKS	SIG.



CAN BE FIXED WITH
CAST IN ANCHORS, DRILL
AND FIX ANCHORS OR
PUSHED IN ANCHORS
AT 180x180 CENTERS



POST TOP DRILLING
ARRANGEMENT



REVn	DATE	DETAILS	INITIAL
07	13/05/22	SURFACE MOUNTED POST BASE CHANGED	A.D
06	27/05/21	DETAILS REVISED	M.T
05	19/11/19	BEAM DETAILS ADDED	M.T
04	12/02/19	TITLEBLOCK REVISED	M.T
03	10/03/17	OFFSET POST REVISED	L.L
02	30/01/17	DETAILS REVISED	L.L
1.3	21/05/15	DETAILS REVISED	L.L

MegaRail ESP4.0 N2 A W5

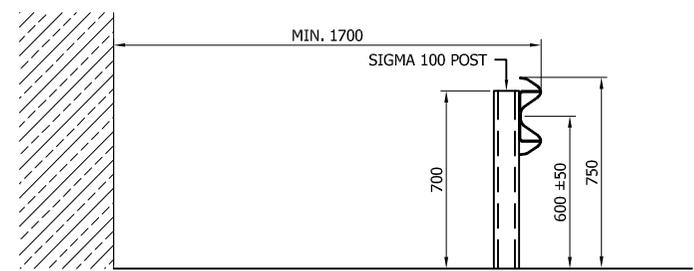
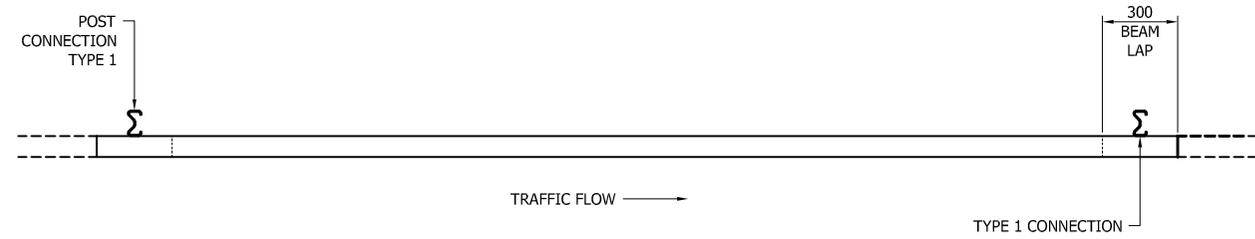
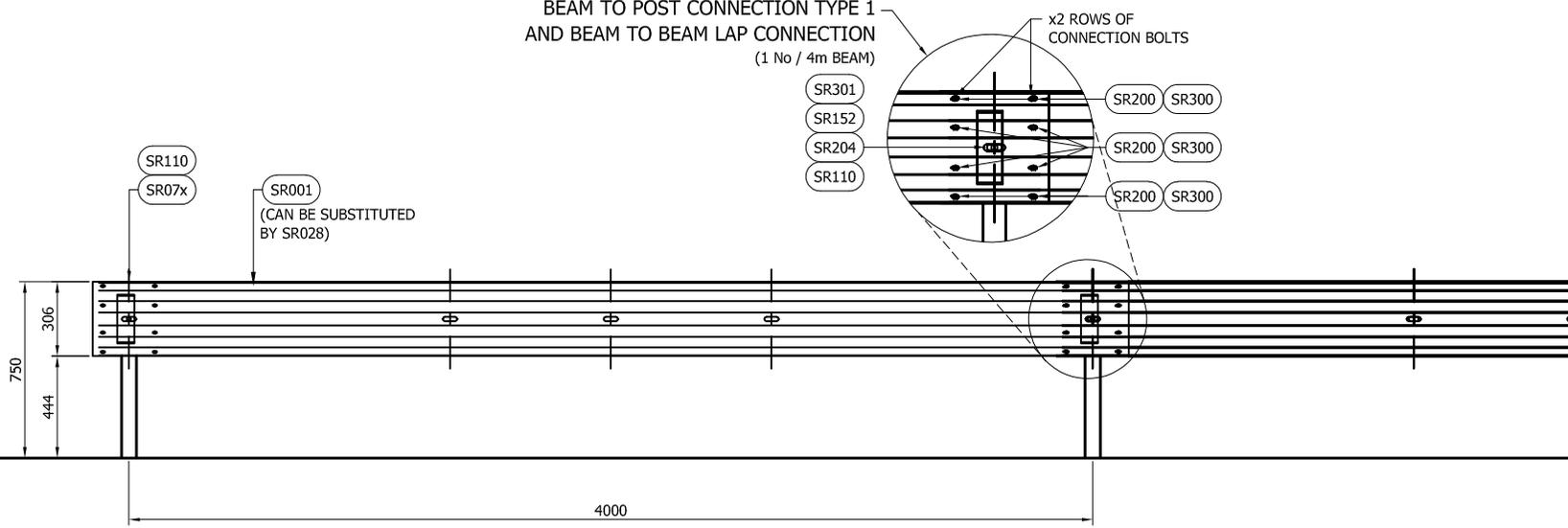
N2.W5 ROAD RESTRAINT SYSTEM
COMPONENTS SCHEMATIC

SAFEROAD®

CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119
e: john.cudlipp@saferoad.co.uk

DRAWING NUMBER:	REVn:
N2W5-GA-00	07

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



GENERAL NOTES:

1. P.S.B. = POINT FROM WHERE SET-BACK IS MEASURED.
2. POSTS ARE TO BE INSTALLED WITH THE CLOSED FACE OF THE CHANNEL TOWARDS THE ON-COMING TRAFFIC.
3. FOR OPTIONS ON POST FOUNDATIONS REFER TO DRAWING NUMBER MR-GA-020
4. FOR DEVIATIONS IN SYSTEM POST PITCH REFER TO DRAWING N2W5-GA-40
5. WHEN TYING INTO ADJACENT VRS ONLY ONE WORKING WIDTH DIFFERENCE IS PERMITTED.
6. WHERE A KERB IS PRESENT THE MAXIMUM KERB HEIGHT IS 100mm.
7. FOR MINIMUM LENGTH OF FULL HEIGHT VRS REFER TO SAFEROAD MEGARAIL MANUAL.

SYSTEM COMPONENT SCHEDULE - QUANTITIES / 4m BEAM		
SAFEROAD UK PART NUMBER	DESCRIPTION	QUANTITY
SR001	BEAM "A" PROFILE (CAN BE SUBSTITUTED BY SR028)	1
SR110	BRACKET STUB IRON 200 x 3	1
	POST SIGMA 100	1
FOR SCHEDULE OF BOLTED CONNECTIONS REFER TO DRAWING NUMBER N2W5-GA-02		

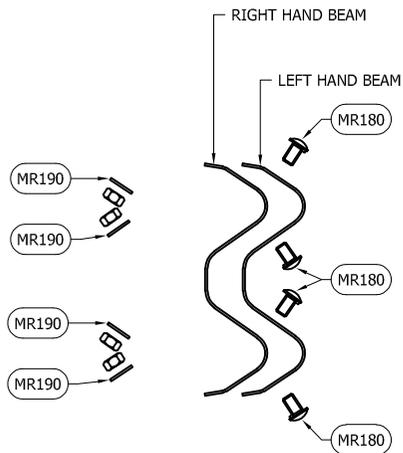
TABLE 'B' - SCHEDULE OF POST REFERENCE NUMBERS AND LENGTHS	
SAFEROAD UK PART NUMBER	POST LENGTH
SR073	1100
SR071	1900
SR072	2100
SR075	2400

REVn	DATE	DETAILS	INITIAL
04	19/11/19	BEAM DETAILS ADDED	M.T
03	12/02/19	TITLEBLOCK REVISED	M.T
02	30/01/17	DETAILS REVISED	L.L
1.3	21/05/15	DETAILS REVISED	L.L

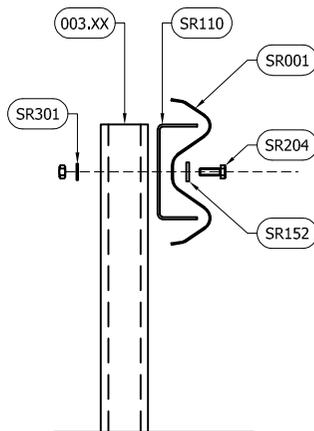
**MegaRail ESP4.0
N2 A W5**
N2.W5 VEHICLE RESTRAINT SYSTEM
ASSEMBLY AND SETTING OUT
ARRANGEMENT

SAFEROAD®
CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
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e: john.cudlipp@saferoad.co.uk

DRAWING NUMBER:	REVn:
N2W5-GA-01	04



BEAM TO BEAM LAP
CONNECTION ARRANGEMENT
(x2 LOCATIONS / BEAM END)



BEAM TO POST
CONNECTION TYPE 1

GENERAL NOTES:

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

BOLTING COMPONENT SCHEDULE - QUANTITIES / BEAM		
SAFEROAD UK PART NUMBER	DESCRIPTION	BEAM TO BEAM CONNECTION
SR200	SETSCREW 4.6 LIP M16x27 c/w NUT	8 (+8)
SR300	WASHER M16 18 ϕ HOLE	8 (+8)

BOLTING COMPONENT SCHEDULE - QUANTITIES / POST		
SAFEROAD UK PART NUMBER	DESCRIPTION	TYPE 1 CONNECTION
SR204	SETSCREW 4.6 M10x45 c/w NUT	1
SR152	WASHER PLATE 115 x 40 x 5 DIA. 12	1
SR301	WASHER M10 11 ϕ HOLE	1
QUANTITY OF CONNECTION TYPES / 4m BEAM		
		1 (+1)

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

REV#	DATE	DETAILS	INITIAL
03	12.02.19	DETAILS REVISED	M,T
02	30/01/17	DETAILS REVISED	L,L
1.3	21/05/15	DETAILS REVISED	L,L

MegaRail ESP4.0 N2 A W5

N2.W5 VEHICLE RESTRAINT SYSTEM
BOLTING ARRANGEMENTS

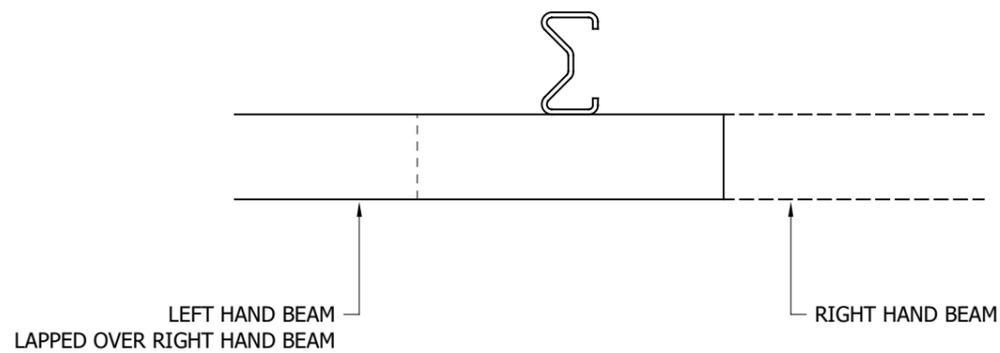
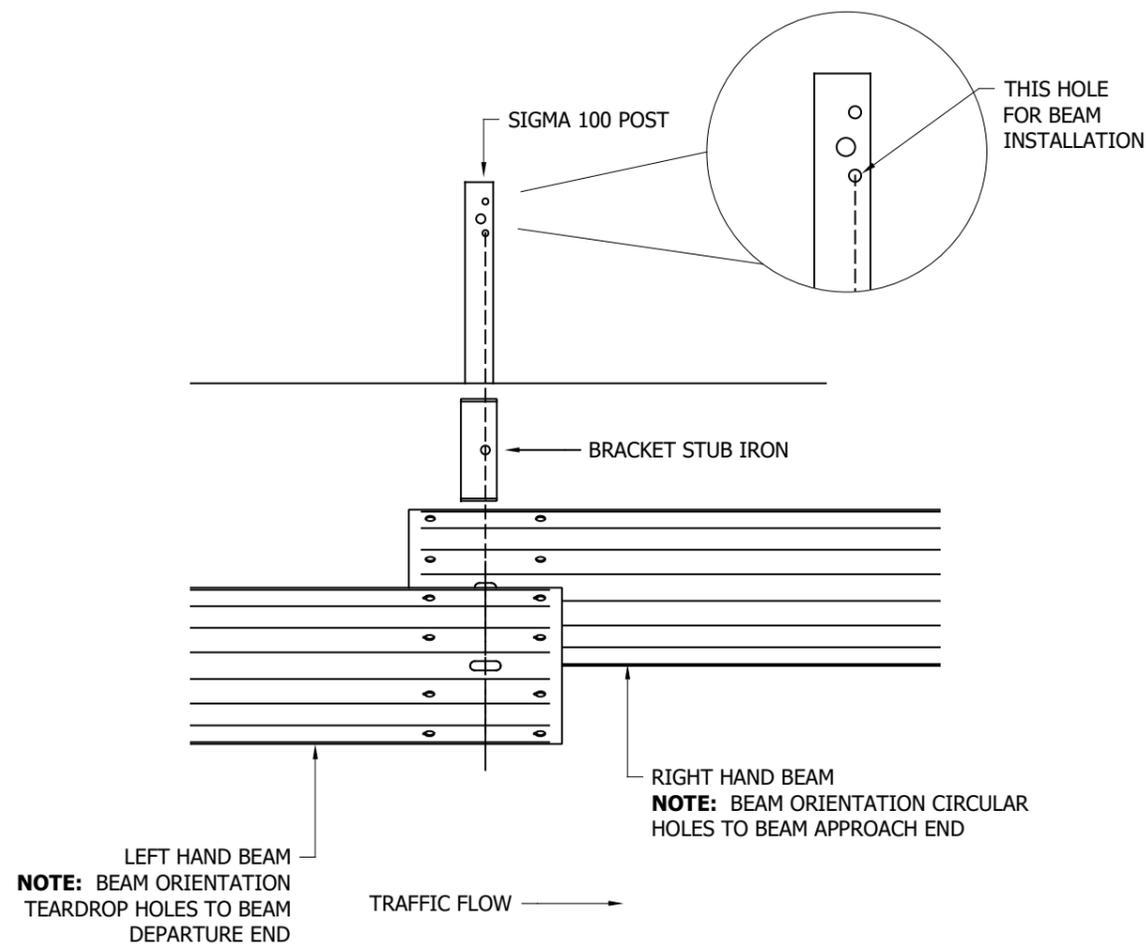
SAFEROAD®

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NORTH LINCOLNSHIRE, DN15 8XE
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e: john.cudlipp@saferoad.co.uk

DRAWING NUMBER:	REV#:
N2W5-GA-02	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

REVn	DATE	DETAILS	INITIAL
04	17.12.21	DETAILS REVISED	A.D
03	12.02.19	DETAILS REVISED	M.T
02	30/01/17	DETAILS REVISED	L.L
1.3	21/05/15	DETAILS REVISED	L.L

MegaRail ESP4.0 N2 A W5

N2.W5 VEHICLE RESTRAINT SYSTEM.
BEAM LAPPING DETAIL FOR W5
MEGARAIL SYSTEM

SAFEROAD®

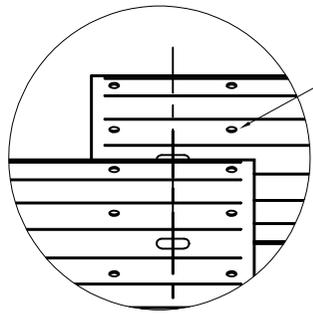
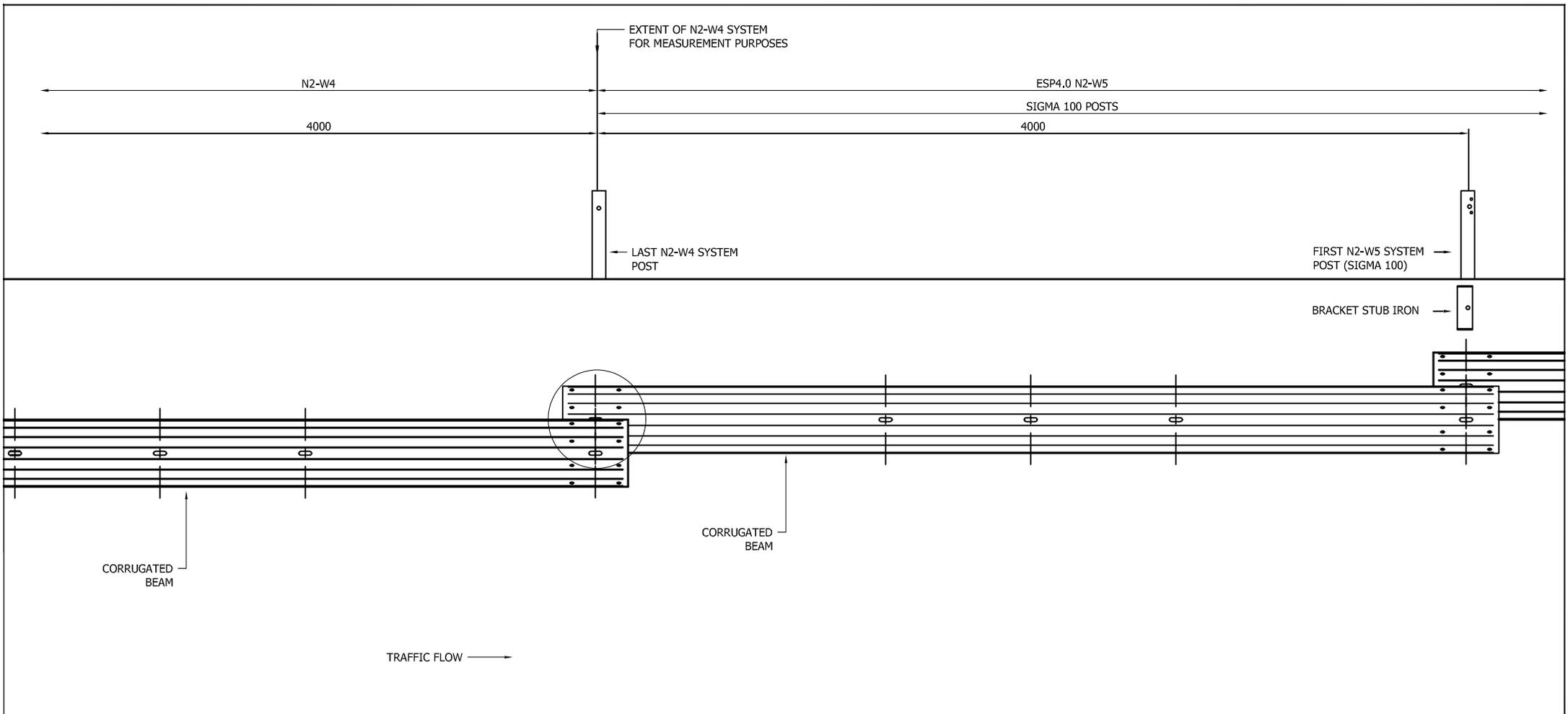
CONCORD HOUSE,
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t: 01724 289119
e: john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

N2W5-GA-03

REVn:

04



NOTE: BEAM ORIENTATION CIRCULAR HOLES TO BEAM APPROACH END

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

**MegaRail ESP4.0
 N2 A W5**
 VEHICLE RESTRAINT SYSTEM.
 SYSTEM PROGRESSION SCHEMATIC
 FOR W5 PROTECTION TO HAZARD

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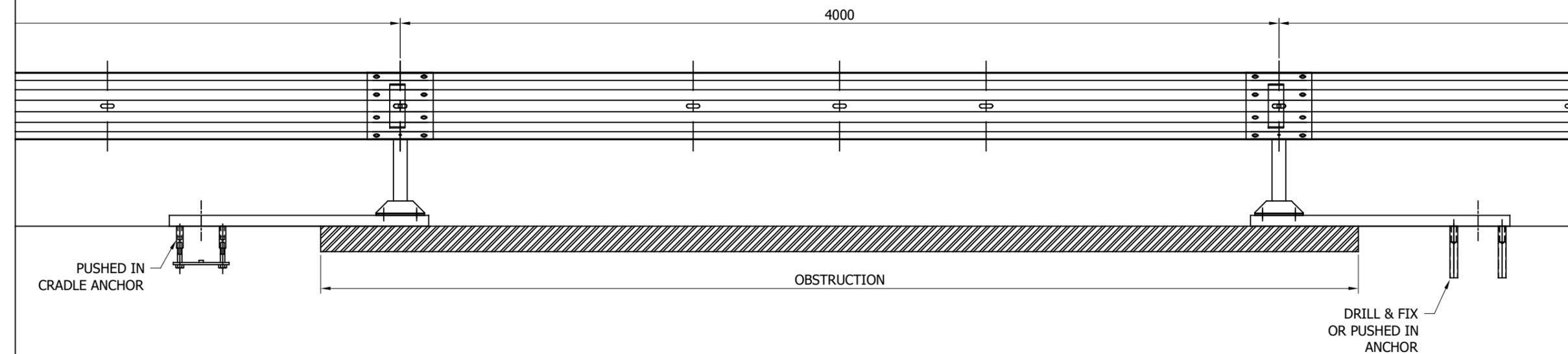
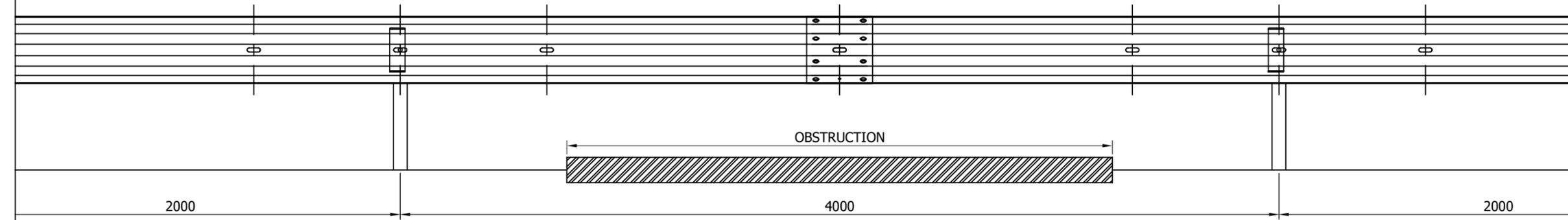
** BEAM REFERENCES I.e. LEFT / RIGHT HAND ARE FOR VERGE INSTALLATIONS; FOR CENTRAL RESERVATION INSTALLATIONS THE REFERENCES ARE REVERSED

REV#	DATE	DETAILS	INITIAL
02	12/02/19	TITLEBLOCK DESCRIPTION	M.T
01	10/03/17	POST DESCRIPTION	L.L
00	30/01/17	NEW DRAWING	L.L

DRAWING NUMBER:	REV#:
N2W5-GA-20	02

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 N2W5-GA-00 CAN BE USED.



REVn	DATE	DETAILS	INITIAL
04	13/05/22	SURFACE MOUNTED POST BASE CHANGED	A.D
03	23/07/21	SURFACE MOUNTED POST DETAIL ADDED	A.D
02	25/05/21	DETAILS REVISED	M.T
01	12/02/19	TITLEBLOCK REVISED	M.T
00	30/01/17	NEW DRAWING	L.L

MegaRail ESP4.0 N2 A W5

N2.W5 VEHICLE RESTRAINT SYSTEM
DEVIATION SETTING OUT
ARRANGEMENT

SAFEROAD®

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DRAWING NUMBER:	REVn:
N2W5-GA-40	04