TERM DEFINITION  APPROACH MEGARAIL APPROACH MEGARAIL DEPARTURE MEGARAIL THE LENGTH OF MEGARAIL SYSTEM NEAREST THE DEPARTING TRAFFIC  TAPER ANY LENGTH OF MEGARAIL OF VARIABLE OFFSET DIMENSION (NORMALLY BETWEEN TWO DISTINCT WORKING CLASS WIDTHS)  WORKING CLASS WIDTH THE WORKING WIDTH DESIGNATION OF MEGARAIL RESTRAINT SYSTEM W1 APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 600mm W2 APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 800mm W3 APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1000mm W4 APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1300mm W5 APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1300mm W5 APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1700mm APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1700mm APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1700mm APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1700mm APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1700mm APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1700mm APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1700mm APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1700mm APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1700mm APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1700mm APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1700mm APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1700mm APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1700mm APPROVED MEGARAIL SYSTEM SUITABLE FOR AVAILABLE WORKING WIDTHS IN EXCESS OF 1700mm		
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CENTRAL RESERVE LAND BETWEEN TWO CARRIAGEWAYS OF		OBSTRUCTION OR HAZARD AND THE TRAFFIC
	VERGE	LAND TO THE NEAR SIDE OF A CARRIAGEWAY
TRAFFIC TRAVELLING IN OPPOSING DIRECTIONS	CENTRAL RESERVE	
BEAM LAPPING ANY LENGTH OF BEAM (EITHER FRONT BEAM, BACK BEAM OR BOTH) THAT OVERLAPS AT LEAST ONE OTHER LENGTH OF BEAM	BEAM LAPPING	BACK BEAM OR BOTH) THAT OVERLAPS AT LEAST

04	20.06.19	TERMINOLOGY REVISED	м.т
03	12.02.19	TITLEBLOCK REVISED	м.т
02	24.01.17	W5 DEFINITION UPDATED	M.T
.0	21.01.15	DETAILS REVISED	м.т
EVn	DATE	DETAILS	INITIAL

## MegaRail

VEHICLE RESTRAINT SYSTEM DEFINITION OF TERMS

## **SAFEROAD°**

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DRAWING NUMBER:

KEVII:

MR-APPENDIX 001

SC	HEDULE OF MEGARAIL COMPONENTS		
PART NUMBER	DESCRIPTION		
SR000	BEAM "A" PROFILE x 4300 x 2.5mm		
SR001	BEAM "A" PROFILE x 4300		
SR014	BEAM TRI-WAVE 4820mm		
SR021	BEAM "A" PROFILE x 2300		
SR022	BEAM "A" PROFILE x 4300 x 2.4mm		
SR024	BEAM "B" PROFILE x 4300		
SR025	BEAM ½ ROUND ESP x 4300		
SR028	sk BEAM "A" PROFILE 4300		
SR070	POST SIGMA 100 x 1700		
SR071	POST SIGMA 100 x 1900		
SR072	POST SIGMA 100 x 2100		
SR073	POST SIGMA 100 x 1100		
SR050	POST "C" 125 1400		
SR051	POST "C" 125 1800		
SR052	POST "C" 125 2000		
SR053	POST "C" 125 1100		
SR054	POST "C" 125 1900		
SR055	POST "C" 125 2400		
SR056	POST "C" 125 1600		
SR057	POST "C" BASEPLATE bs UK CENTRE		
SR058	POST "C" BASEPLATE bs UK VERGE		
SR059	POST "C" 125 1700 x 5		
SR060	POST "C" 125 1100 x 5		
SR062	POST "C" 125 1600		
SR063	POST "C" BASEPLATE bs UK VERTICAL		
SR064	POST "C" 125 2400		
SR066	POST "C" BASEPLATED bs LEFT 495		
SR067	POST "C" BASEPLATED bs UK CENTRE 495		
SR034	POST "C" 125 1100		
SR035	POST "C" 125 1800		
SR036	POST "C" 125 2000		
SR037	POST "C" 125 C/W BRACKET 2400		
SR039	POST "C" 125 2400		
SR040	POST "C" 125 2400 (PUNCHED BOTH ENDS)		
SR041	POST "C" 125 1600		
SR042	POST "C" 125 1700		
SR043	POST "C" 125 1800		
SR044	POST "C" 125 2000		
SR045	POST "C" 125 1100		
SR046	POST "C" 125 C/W BRACKET 1600		

SR047	POST "C" 125 C/W BRACKET 1800
SR048	POST "C" 125 C/W BRACKET 2000
SR049	POST "C" 125 C/W BRACKET 1100
	·
SR170	POST C100/60/4 1100
SR171	POST C100/60/4 1800
SR172	POST C100/60/4 2000
SR173	POST C100/60/4 2400
5.1.2.5	
SR214	POST "C" 125 1600 (SAFESTAR)
SR225	POST "C" 125 2000 (SAFESTAR)
SR240	POST "C" 125 1250 (SAFESTAR)
5.12.10	
SR330	POST "C" 125 2400 (TM32-34)
SR332	POST "C" 125 2000 (TM32-34)
SR333	POST "C" 125 1800 (TM32-34)
SR336	POST "C" 125 1360 (TM32-34)
SR339	POST "C" 125 1280 (TM32-34)
SR340	POST "C" 125 1080 (TM32-34)
3.570	
SR111	BRACKET SINGLE SPACER LEFT 340mm
SR112	BRACKET SINGLE SPACER RIGHT 340mm
20117	DIVIONE I STRUCK RIGHT STUMM
SR113	SPACER BRACKET 45mm
31113	STACES BRACKET TOTAL
SR320	SPACER BRACKET 45mm (TM32-34)
SR321	SPACER LEFT HAND 480mm (TM32-34)
SR322	BOX PROFILE BRACKET (TM32-34)
SR323	BOX PROFILE FITTING PIECE (TM32-34)
SR324	KP LOWERING MEMBER 13° (TM32-34)
SR325	KP M LATERAL OFFSET B+C (TM32-34)
SR328	MOUNTING BRACKET 100° (TM32-34)
SR329	KP M LATERAL OFFSET A+D (TM32-34)
51029	
SR151	WASHER PLATE 115x40x6 DIA, 18
SR152	WASHER PLATE 115x40x5 DIA. 12
SR154	WASHER PLATE MR bw FOR HD BOLTS
SR155	WASHER PLATE 85x35x4 DIA. 18
SR105	WASHER PLATE 115x40x5 TEAR DROP
3/103	WOLLKI ETTE TISKTON ILAK DROF
SR200	SETSCREW 4.6 LIP M16x27 c/w NUT
SR106	SETSCREW 4.6 LIP M16x40 c/w NUT
SR201	SETSCREW 8.8 M16x45 c/w NUT
SR201	SETSCREW 8.8 M16x30 c/w NUT
SR202	SETSCREW 4.6 M10x60 c/w NUT
	SETSCREW 4.6 M10x45 c/w NUT
SR204	·
SR205	SETSCREW 8.8 M10x30 c/w NUT
SR206	SETSCREW 4.6 M10x30 c/w NUT

SR207	SETSCREW 8.8 M16x30 c/w NUT HRK SHOULDER
SR220	SETSCREW 4.6 LIP M16x27 c/w NUT & WASHER
SR221	SETSCREW 4.6 LIP M16x40 c/w NUT, WASHER & PLATE
SR222	SETSCREW 8.8 M16x45 c/w NUT, WASHER & PLATE
SR223	SETSCREW 4.6 M10x45 c/w NUT, WASHER & PLATE
SR224	SETSCREW 4.6 M10x30 c/w NUT, WASHER & PLATE
SR208	WASHER M16 HEX
SR209	WASHER M16 18x38
SR300	WASHER M16 18 DIA, HOLE
SR301	WASHER M10 11 DIA. HOLE
3K3U1	WASHER MID II DIA. HOLE
SR090	SIGMA POST SOCKET 420mm
SR091	SIGMA POST SOCKET 470mm
SR092	SIGMA POST SOCKET 520mm
SR093	SIGMA POST SOCKET 550mm
SR094	SIGMA POST SOCKET 570mm
SR080	"C" POST SOCKET 470mm
SR081	"C" POST SOCKET 520mm
SR082	"C" POST SOCKET 550mm
SR083	"C" POST SOCKET 570mm
SR084	"C" POST SOCKET 470mm (PLASTIC)
SR181	C100 POST SOCKET 450mm
SR182	C100 POST SOCKET 500mm
SR183	C100 POST SOCKET 550mm
SR100	A21 REINFORCING RING

05	20.06.23	SR180 REMOVED	A.D
04	18.10.22	PRODUCT ADDED	M.T
03	12.02.19	DETAILS ADDED, REVISED	M.T
02	24.01.17	ITEMS, CODES UPDATED	M.T
1.0	21.05.15	DETAILS REVISED	м.т
REVn	DATE	DETAILS	INITIAL

# MegaRail

VEHICLE RESTRAINT SYSTEM
DEFINITION OF SYSTEM
COMPONENTS AND PART NUMBERS

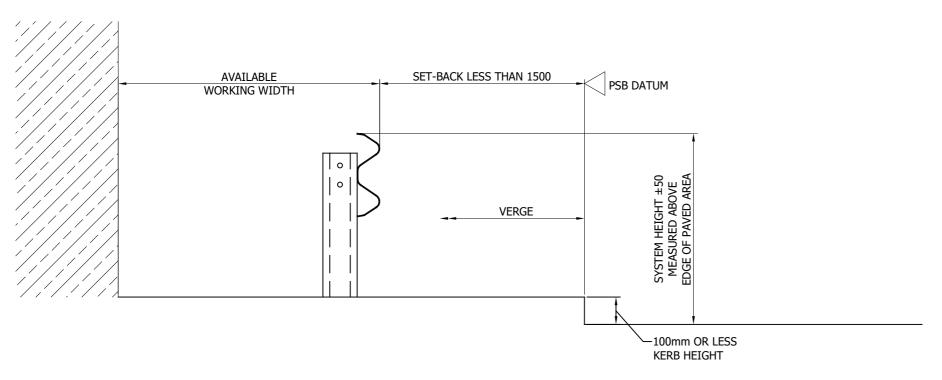
# **SAFEROAD®**

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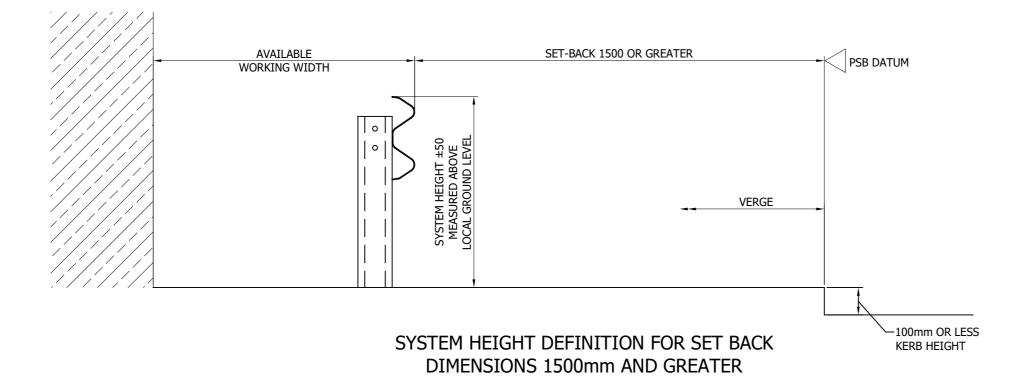
john.cudlipp@saferoad.co.uk

REVn:

MR-APPENDIX 002



# SYSTEM HEIGHT DEFINITION FOR SET BACK DIMENSIONS LESS THAN 1500mm



### **GENERAL NOTES:**

- P.S.B. = POINT FROM WHERE SET-BACK IS MEASURED.
- 2. FOR INSTALLATIONS WITH BEAMS TO A SINGLE SIDE OF THE POSTS THE POSTS ARE TO BE INSTALLED WITH THE CLOSED FACE OF THE CHANNEL TOWARDS THE ON-COMING TRAFFIC.
- 3. FOR INSTALLATIONS WITH BEAMS TO BOTH SIDES OF THE POSTS; THE POSTS ARE TO BE INSTALLED WITH THE CLOSED FACE OF THE CHANNEL TOWARDS THE ON-COMING TRAFFIC WITH THE SMALLEST SETBACK BIAS.
- 4. MEGARAIL SYSTEM MAY BE EITHER SINGLE OR DOUBLE SIDED.

04	17.12.21	HEIGHT NOTE REVISED	A.D
03	12.02.19	TITLEBLOCK REVISED	M.T
02	24.01.17	KERB HEIGHTS ADDED	M.T
1.0	21.05.15	DETAILS REVISED	M.T
REVn	DATE	DETAILS	INITIAL

## MegaRail

VEHICLE RESTRAINT SYSTEM SYSTEM HEIGHT MEASUREMENTS FOR ALTERNATE SETBACKS 100mm OR LESS KERB HEIGHT

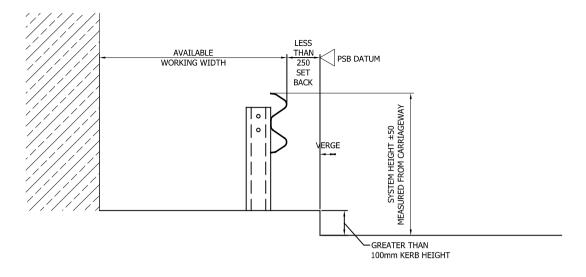
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RAWING NUMBER:

REVn:

MR-GA-001



### SYSTEM HEIGHT DEFINITION FOR SET BACKS OF LESS THAN 250mm & KERB HEIGHTS OF GREATER THAN 100mm

AVAILABLE 250 & GREATER WORKING WIDTH SETBACK PSB DATUM GREATER THAN 100mm KERB HEIGHT

> SYSTEM HEIGHT DEFINITION FOR SET BACKS OF 250mm & GREATER & KERB HEIGHTS OF GREATER THAN 100mm

THIS DRAWING (MR-GA-03) APPLIES TO SAFEROAD MEGÀRAIL PRODUCTS ONLY.

IT DOES NOT APPLY TO NPSBS PRODUCTS

#### GENERAL NOTES:

- 1. P.S.B. = POINT FROM WHERE SET-BACK IS MEASURED.
- 2. 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.

	06		LIST OF APPLICABLE SYSTEMS REMOVED	
	05	19.05.23	LIST OF APPLICABLE SYSTEMS REVISED	A.D
	04	17.12.21	HEIGHT NOTE REVISED	A.D
	03	02.11.21	LIST OF APPLICABLE SYSTEMS REVISED	A.D
	02	27.05.21	DETAILS & NOTES REVISED	M.T
	01	12.02.19	TITLEBLOCK REVISED	M.T
	00	25.01.17	DRAWING CREATED	M.T
ı	REVn	DATE	DETAILS	INITIAL

### MegaRail

VEHICLE RESTRAINT SYSTEM SYSTEM HEIGHT MEASUREMENTS FOR SETBACKS GREATER THAN 100mm KERB HEIGHT

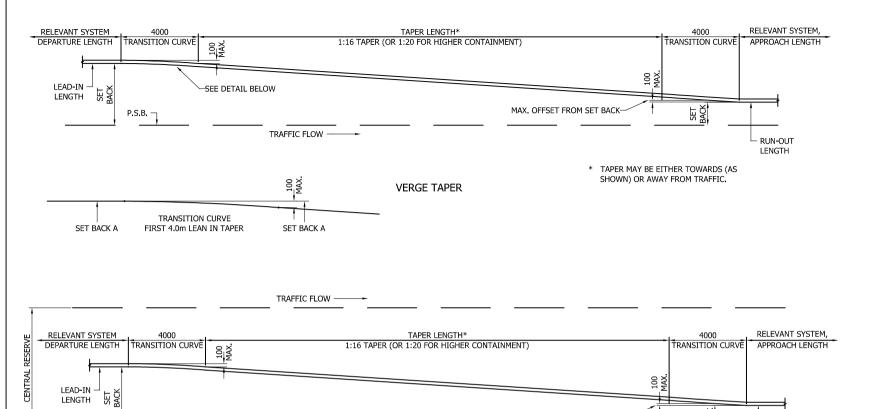
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06

MR-GA-003



#### CENTRAL RESERVE TAPER

NOTE: 1:16 FOR N2 SYSTEMS & 1:20 FOR H LEVEL SYSTEMS ARE MAXIMUM PERMITTED TAPERS. THE TAPER LENGTH SHOWN IN THE TABLES CAN BE REDUCED. BUT CHANGES IN SAFETY BARRIER PROFILE MUST NOT OCCUR ABRUTLY, ANY ANGLES PRESENTED TO ONCOMING TRAFFIC MUST HAVE A FLOWING ALIGNMENT. THE TRANSITION CURVE IS AN IMPORTANT ELEMENT OF MAINTAINING A FLOWING ALIGNMENT.

TRAFFIC FLOW

P.S.B.

		CAL TAPER LENGTHS SET BACKS 1 IN 16
	VARIANCE IN SET BACKS, mm	MINIMUM TAPER LENGTH, m
	250	4.00
	350	5.60
	450	7.20
	550	8.80
	650	10,40
	750	12.00
	900	14.40
	1100	17.60
	1200	19.20
	1600	25.60
	1900	30.40
ľ	2000	32.00
-		

MAX. OFFSET FROM SET BACK-

FOR VARIABLE SET BACKS 1 IN 20			
VARIANCE IN SET BACKS, mm	MINIMUM TAPER LENGTH, m		
250	5.00		
350	7.00		
400	8.00		
550	11.00		
650	13,00		
750	15.00		
900	18.00		
1000	20.00		
1200	24.00		
1400	28.00		
1600	32.00		
2000	40.00		

**RUN-OUT** LENGTH

TABLE OF TYDICAL TABED LENGTHS

#### **GENERAL NOTES:**

- 1. ON ALL SYSTEMS THE WORKING WIDTH CLASSIFICATIONS THE TAPER LENGTH IS TO BE THE SAME WORKING WIDTH AS THE ADJACENT SYSTEMS.
- 2. LENGTH OF TAPER TO BE DETERMINED FROM CHANGE IN SET BACK MEASUREMENT. FOR NORMAL CONTAINMENT (N2) SYSTEMS THE LENGTH OF TAPER MUST NOT BE LESS THAN 1 IN 16, FOR HIGH CONTAINMENT (H) SYSTEMS THE LENGTH OF TAPER MUST NOT BE LESS THAN 1 in 20.
- 3. WHERE THE RATE OF CHANGE IN SET BACK IS LESS THAN 1 in 30 (i.e. 1 in 35) NO TAPER ARRANGEMENT IS REQUIRED.
- 4. CHANGES IN HORIZONTAL ALIGNMENT BETWEEN THE LEAD-IN AND RUN-OUT LENGTHS OF MEGARAIL ARE TO TAKE PLACE UNIFORMLY OVER THE TAPER LENGTH.
- 5. WHERE CHANGES IN HORIZONTAL ALIGNMENT OCCUR (WHICH MAY ALSO BE DUE TO THE ALTERNATE METHODOLOGY FOR DETERMINING REFERENCE HEIGHT OF BARRIERS - REFER MR-GA001) THIS MAY RESULT IN LOCAL ISOLATED AREAS OF FENCE THAT ARE OUTSIDE THE RANGE OF PERMISSIBLE DIMENSIONS.
- 6. FOR MEGARAIL EP C120 ONLY, MAXIMUM TAPER IS 1 in 10. PLEASE SEE MEGARAIL EP C120 GA DRAWINGS FOR DETAILS.

07	27.10.23	NOTE 6 ADDED	н.в
06	11.06.21	TAPER DETAILS REVISED	м.т
05	16.03.21	TAPER DETAILS REVISED	м.т
04	12.02.19	TITLEBLOCK REVISED	м.т
03	17.10.18	TAPER DETAILS ADDED	м.т
02	24.01.17	TAPER LENGTHS REVISED	м.т
1.0	21.05.15	DETAILS REVISED	м.т
REVn	DATE	DETAILS	INITIAL

### MegaRail

VEHICLE RESTRAINT SYSTEM VERGE AND CENTRAL RESERVE TAPER GENERAL ARRANGEMENTS

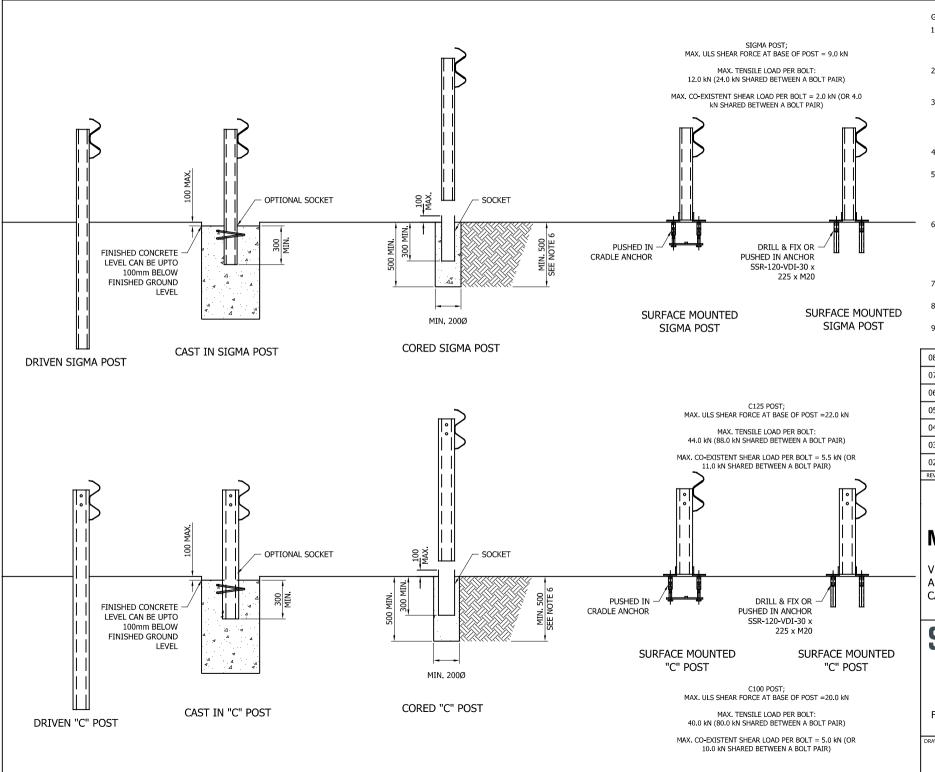
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DRAWING NUMBER:

MR-GA-010



#### GENERAL NOTES:

- CONCRETE FOUNDATIONS TO BE DESIGNED BY THE CONTRACTOR AND TESTED TO COMPLY WITH THE REQUIREMENTS OF SAFEROAD TESTING PROCEDURE.
- 2. CONCRETE TO BE PRESCRIBED MIX ST5 OR RC20/25. STRONGER GRADES OF STRUCTURAL CONCRETE ARE ACCEPTABLE.
- 3. SOCKETS MAY BE INSTALLED FLUSH WITH THE TOP OF CONCRETE, HOWEVER THE PROTRUSION SHOULD NOT EXCEED 100mm. SOCKET PROTRUSIONS WILL AID THE PREVENTION OF DETRITOUS INCURSION.
- 4. MINIMUM SOCKET AND OR POST EMBEDMENT IS 300mm.
- POSTS IN SPECIAL CONCRETE FOUNDATIONS SUCH AS FILTER DRAIN OR SIMILAR MUST BE DESIGNED BY THE CONTRACTOR TO COMPLY WITH THE REQUIREMENTS OF THE SAFEROAD TEST PROCEDURE.
- WHERE POSTS ARE TO BE INSTALLED BY CORING THROUGH EXISTING CARRIAGEWAY THE OVERALL CARRIAGEWAY CONSTRUCTION THICKNESS MUST BE A MINIMUM OF 500mm. THIS MINIMUM INCLUDES COMPACTED SIJR-RASE.
- SCENARIOS ARE SUITABLE FOR ALL POST TYPES.
- FOR SURFACE MOUNTED POST TEST LOADS, SEE THE MEGARAIL MANUAL.
- FINISHED CONCRETE FOOTING LEVEL CAN BE UPTO 100mm BELOW FINISHED GROUND LEVEL

	08	19/01/24	MIN. EMBEDMENT REVISED	H.B
	07	05.07.23	GENERAL NOTE 2 REVISED	A.D
	06	16.10.19	DETAILS ADDED	M.T
	05	12.02.19	TITLEBLOCK REVISED	M.T
	04	17.10.18	DRILL & FIX DETAILS ADDED	M.T
	03	10.03.17	NOTE No. 9 ADDED	M.T
1	02	24.01.17	ANCHOR DETAILS REVISED	M.T
1	REVn	DATE	DETAILS	INITIAL

### MegaRail

VEHICLE RESTRAINT SYSTEM ARRANGEMENTS FOR DRIVEN CAST IN AND CORED POSTS

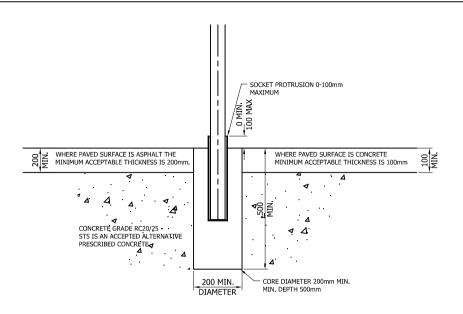
## **SAFE**ROAD<sup>®</sup>

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

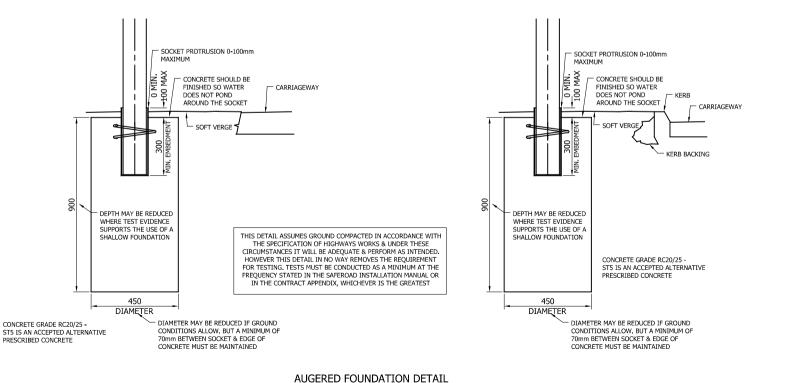
FOR TECHNICAL ASSISTANCE CONTACT john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

MR-GA-020



### SAFEROAD CORED FOUNDATION DETAIL



	04	19/01/24	MIN. EMBEDMENT REVISED	н.в
	03	28.09.22	CONCRETE NOTE REVISED	A.D
	02	16.08.21	TITLE BLOCK REVISED	A.D
	01	13.02.19	DETAILS REVISED	М.Т
	00	14.11.18	DRAWING CREATED	M.T
1	REVn	DATE	DETAILS	INITIAL

### MegaRail

SAFEROAD FOUNDATION DETAILS CORED & AUGERED FOUNDATIONS

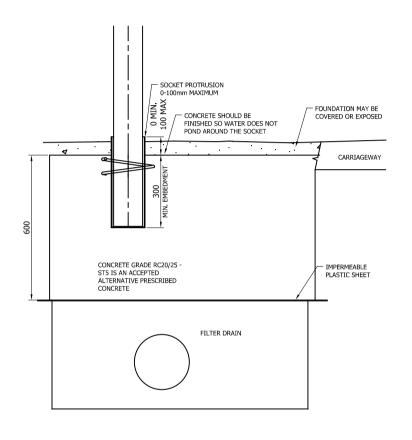
## SAFEROAD®

CONCORD HOUSE, BESSEMER WAY, SCUNTHORPE, NORTH LINCOLNSHIRE, DN15 8XE t: 01724 289119 FOR TECHNICAL ASSISTANCE CONTACT

john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

MR-GA-021



CARRIAGEWAY
A
FILTER DRAIN FOUNDATION

SECTION A-A

THIS DRAWING ASSUMES FILTER DRAIN IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAYS FOR HIGHWAYS WORKS F2 y=x+450 WITH A PIPE DIAMETER NOT EXCEEDING 450mm

THIS STANDARD DETAIL IN NO WAY REMOVES THE REQUIREMENT FOR SOIL TESTS. TESTS MUST BE CARRIED OUT AT THE FREQUENCY STATED IN THE SAFEROAD INSTALLATION MANUAL OR IN THE CONTRACT APPENDIX WHICH EVER IS THE GREATER

н.в 19/01/24 MIN. EMBEDMENT REVISED 02 28.09.22 CONCRETE NOTE REVISED A.D M.T 01 13.02.19 DETAILS REVISED M.T 14.11.18 DRAWING CREATED DATE DETAILS REVn

### MegaRail

SAFEROAD FOUNDATION DETAILS FILTER DRAIN FOUNDATION

## **SAFEROAD®**

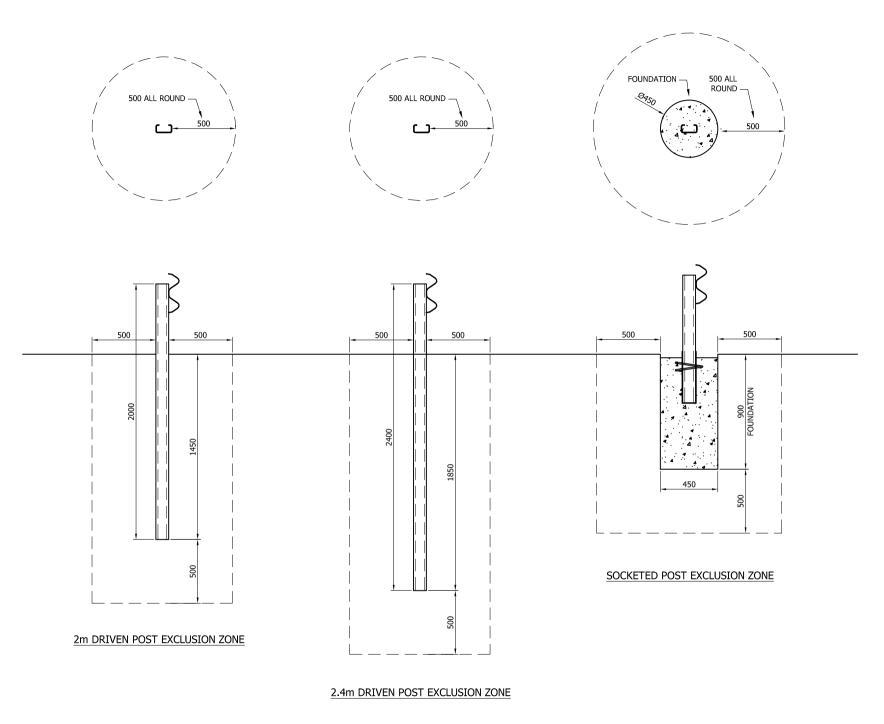
CONCORD HOUSE, BESSEMER WAY, SCUNTHORPE, NORTH LINCOLNSHIRE, DN15 8XE t: 01724 289119

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

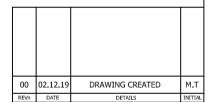
DDAWING NUMBED:

MR-GA-022

022 | 03



THIS ILLUSTRATION IS TO SHOW 500mm EXCLUSION ZONES TO ENABLE SHW. NO SERVICES/UTILITIES TO BE PLACED WITHIN THESE EXCLUSION ZONES. PLEASE GIVE FURTHER CONSIDERATION TO PLACING SERVICES/UTILITIES WITHIN CLOSE PROXIMITY TO THIS EXCLUSION ZONE AS THIS CAN COMPROMISE SUITABILITY OF THE GROUND. IF GROUND IS NOT COMPACTED & INSTALLED IN ACCORDANCE WITH SHWTHEN THERE IS AN INCREASED LIKELIHOOD THE FOUNDATION SHALL FAIL.



### MegaRail

SAFEROAD POST EXCLUSION ZONE DETAILS DRIVEN & SOCKETED POSTS

## **SAFEROAD®**

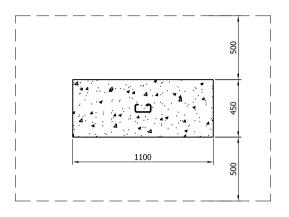
CONCORD HOUSE, BESSEMER WAY, SCUNTHORPE, NORTH LINCOLNSHIRE, DN15 8XE t: 01724 289119 FOR TECHNICAL ASSISTANCE CONTACT

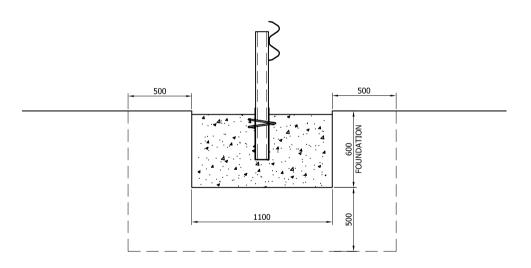
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

REVn:

MR-GA-023





FOUNDATION EXAMPLE EXCLUSION ZONE

THIS ILLUSTRATION IS TO SHOW 500mm EXCLUSION ZONES TO ENABLE A SAFE WORKING ZONE. NO SERVICES/UTILITIES TO BE PLACED WITHIN THESE EXCLUSION ZONES. PLEASE GIVE FURTHER CONSIDERATION TO PLACING SERVICES/UTILITIES WITHIN CLOSE PROXIMITY TO THIS EXCLUSION ZONE AS THIS CAN COMPROMISE SUITABILITY OF THE GROUND, IF GROUND IS NOT COMPACTED & INSTALLED IN ACCORDANCE WITH SHWTHEN THERE IS AN INCREASED LIKELIHOOD THE FOUNDATION SHALL FAIL.

SEE SPECIFICATION FOR HIGHWAYS WORKS DRAWINGS B1 & B2.

00	02.12.19	DRAWING CREATED	м.т
REVn	DATE	DETAILS	INITIAL

### MegaRail

SAFEROAD POST EXCLUSION ZONE DETAILS FOUNDATION EXAMPLE

## **SAFEROAD®**

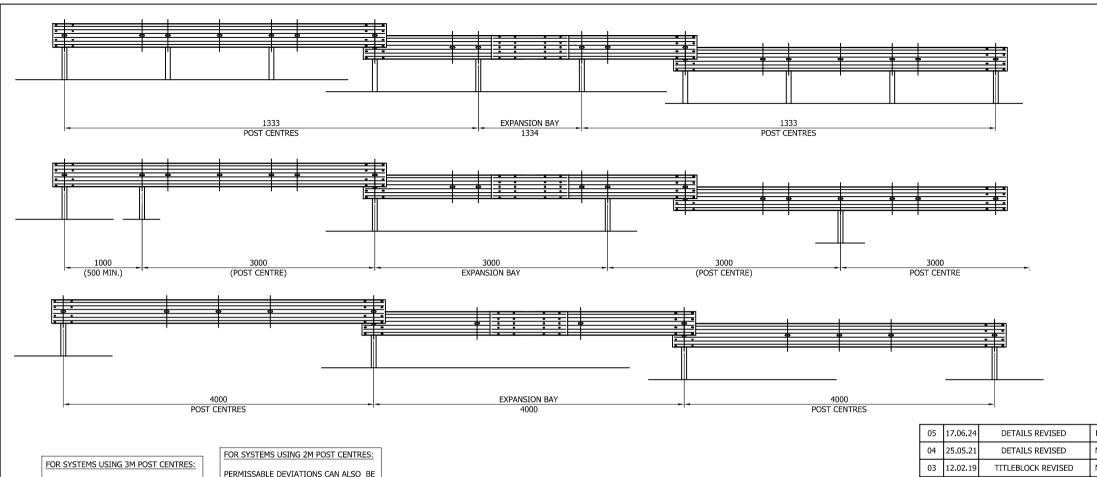
CONCORD HOUSE, BESSEMER WAY, SCUNTHORPE, NORTH LINCOLNSHIRE, DN15 8XE t: 01724 289119 FOR TECHNICAL ASSISTANCE CONTACT

john.cudlipp@saferoad.co.uk

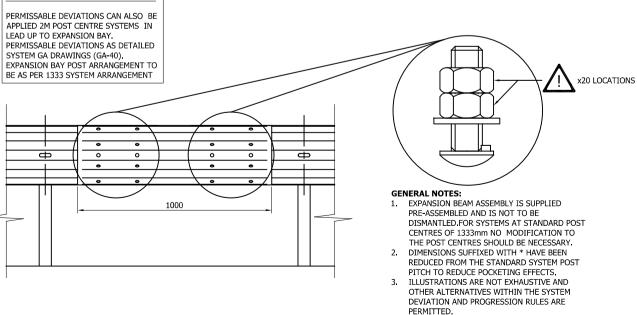
DRAWING NUMBER:

REVn:

MR-GA-024



PERMISSABLE DEVIATIONS TO BE APPLIED (500MM MIN.) IN LEAD UP TO EXPANSION BAY PERMISSABLE DEVIATIONS AS DETAILED WITHIN exH1W2-GA-40



	05	17.06.24	DETAILS REVISED	H.B
	04	25.05.21	DETAILS REVISED	M.T
	03	12.02.19	TITLEBLOCK REVISED	M.T
	02	24.01.17	SYSTEMS, DETAILS REVISED	M.T
	1.0	21.05.15	DETAILS REVISED	M.T
1	REVn	DATE	DETAILS	INITIAL

## MegaRail

VEHICLE RESTRAINT SYSTEM TYPICAL ARRANGEMENT FOR SYSTEM MODIFICATION AT **EXPANSION JOINT LOCATIONS** 

## SAFEROAD

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

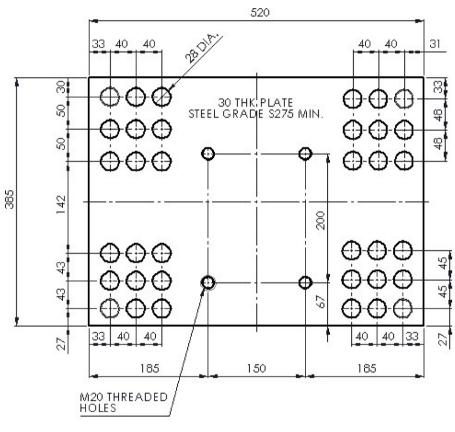
FOR TECHNICAL ASSISTANCE CONTACT john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

MR-GA-025

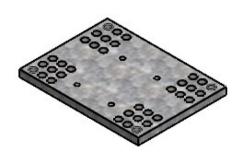
#### GENERAL NOTES;

- 1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
- 2. PLATE DESIGN SHOWN TO BE 520x385x30 THK STEEL GRADE S275 MIN.
- 3. HOLE POSITIONING MAY VARY SLIGHTLY TO COINCIDE WITH SPECIFIC STRUCTURES REQUIREMENTS.
- 4. PLATES TO BE GALVANISED TO BS EN ISO 1461.



TYPICAL PLATE DETAIL

COMPONENT WEIGHT: 41.8 kg



ISOMETRIC VIEW

00	18.02.22	DRAWING CREATED	M.T	
REVn	DATE	DETAILS	INITIAL	

### MegaRail

STEEL PLATE FOUNDATION

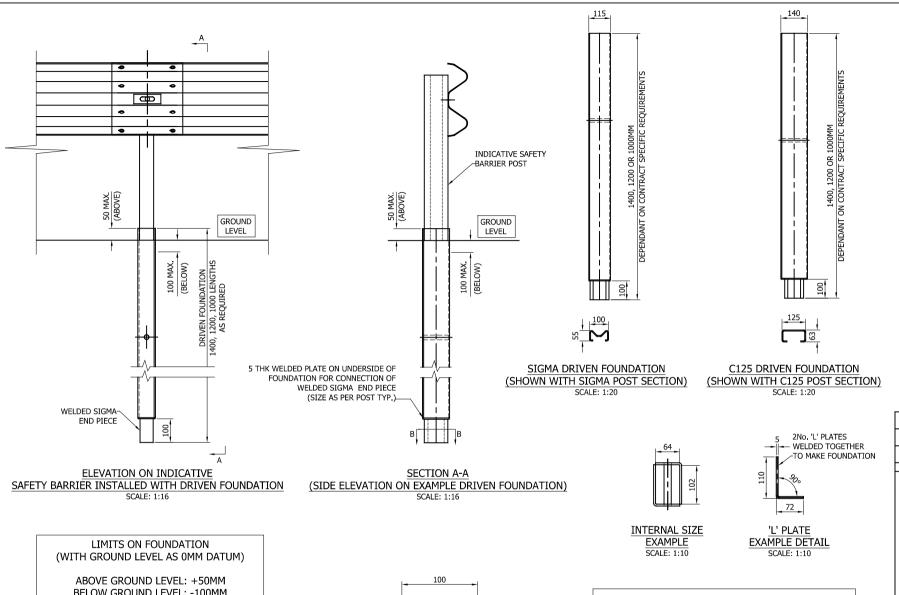
## **SAFEROAD**°

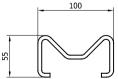
CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

REVII:

MR-GA-026





SECTION B-B (SECTION ON WELDED SIGMA END PIECE) SCALE: 1:5

#### DRIVEN FOUNDATION INTERNAL DIMENSIONS TABLE FOUNDATION INTERNAL POST TYPE DIMENSIONS SIGMA 105 x 62 C125 130 x 68 C100 104 x 64

### C100 DRIVEN FOUNDATION (SHOWN WITH C100 POST SECTION)

90

\_115\_

1400, 1200 OR 1000MM JEPENDANT ON CONTRACT SPECIFIC REQUIREMENTS

01	03/03/23	TOLERANCES UPDATED	н.в
00	31/05/22	DRAWING CREATED	н.в
REVn	DATE	DETAILS	INITIAL

### **MEGARAIL**

#### DRIVEN FOUNDATION DETAILS

PLEASE BE ADVISED, SAFEROAD OWN THE INTELLECTUAL PROPERTY RIGHTS TO THIS INNOVATION

## **SAFE**RO

CONCORD HOUSE, BESSEMER WAY, SCUNTHORPE, NORTH LINCOLNSHIRE, DN15 8XE t: 01724 289119 FOR TECHNICAL ASSISTANCE CONTACT

john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

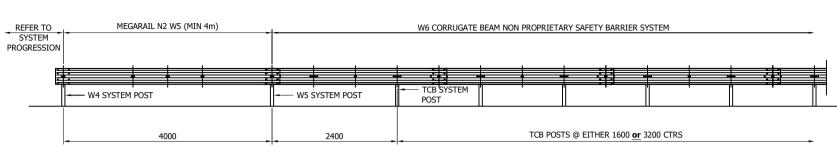
01

MR-GA-027

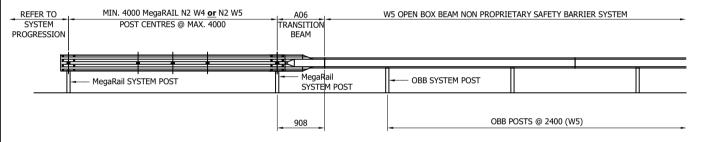
DELOW GROOND LEVEL. 1001/11/1		
	25	
RAL NOTES:		lL
L DIMENSIONS IN MM UNLESS STATED	<u> </u>	

GENER 1. ALI

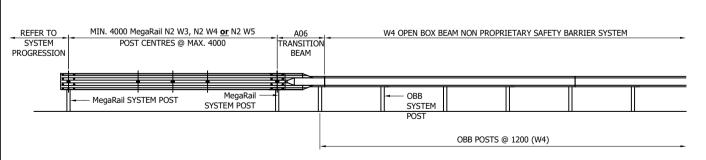
- OTHERWISE 2. DRIVEN FOUNDATION LENGTHS TO BE AS CONTRACT REQUIRES
- 3. POSTS TO BE INSTALLED WITH CLOSED FACE TOWARDS ONCOMING TRAFFIC
- 4. FOR INSTALLATION TOLERANCES ABOVE/BELOW GROUND LEVEL, REFER TO ABOVE NOTATION



#### TRAFFIC FLOW ---



TRAFFIC FLOW ---



TRAFFIC FLOW ---

#### **GENERAL NOTES:**

- POST MAY BE EITHER DRIVEN, SET IN CONCRETE, SURFACE MOUNTED OR ANY COMBINATION OF THE THREE OPTIONS.
- 2. WHEN REMOVING NPSBS TO INTRODUCE A P4 TERMINAL, ENSURE THAT THE MINIMUM LENGTH OF NEED IS MAINTAINED IN ACCORDANCE WITH CD377 CHAPTER 3 'LENGTH OF NEED' CLAUSE 3.12 TO CLAUSE 3.14.

REVn	DATE	DETAILS	INITIAL
1.0	21.05.15	DETAILS REVISED	M.T
02	24.01.17	DETAILS UPDATED	M.T
03	12.02.19	TITLEBLOCK REVISED	M.T
04	25.05.21	NOTES REVISED	M.T
05	26.07.21	NOTE REVISED ON TOP ELEVATION	A.D

### MegaRail

VEHICLE RESTRAINT SYSTEM ARRANGEMENT FOR MEGARAIL TO NON-PROPRIETARY SAFETY BARRIER SYSTEMS

## **SAFEROAD®**

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john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

REVN:

MR-GA-040

### BEAMS OMITTED FROM PLAN VIEW FOR CLARITY EXAMPLE SYSTEM PROGRESSION INTO 2M C/C INDICATIVE 4M C/C MEGARAIL SYSTEM MEGARAIL SYSTEM USING SMARTRAFT 굿 묽 异 (i) OFFSET AS REOUIRED EXAMPLE OF SOCKETED-FOUNDATION PRIOR TO PLAN VIEW ON EXAMPLE SMARTRAFT GENERAL ARRANGEMENT SMARTRAFT INSTALLATION SCALE: 1:100 CONTINUATION OF INDICATIVE MEGARAIL SYSTEM 2000 2000 2000 2000 4000 4000 4000 A-A (ELEVATION ON TRAFFIC FACE) SCALE: 1:100 SMARTRAFT EXAMPLE DETAILED WITH SURFACE MOUNTED INDICATIVE LINEAR MEGARAIL SAFETY BARRIER SYSTEM. SMARTRAFT IS SUITABLE FOR USE WITH MAJORITY OF SAFEROADS MEGARAIL PRODUCT RANGE

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
- 2. SMARTRAFT IS A PRODUCT OF ARBUS LIMITED.
- 3. SMARTRAFT EXAMPLE SHOWN WITH INDICATIVE LINEAR MEGARAIL SAFETY BARRIER SYSTEM,
- 4. SMARTRAFT MAY ALSO BE INSTALLED WITH SOCKETED POSTS

02	27/08/24	DRAWING UPDATED	н.в
01	23.07.21	WORKING WIDTH NOTE REVISED	A.D
00	05.02.21	DRAWING CREATED	M.T
REVn	DATE	DETAILS	INITIAL

### **SMARTRAFT**

GENERAL ARRANGEMENT DETAIL SHOWN WITH INDICATIVE MEGARAIL SYSTEM



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john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

SMARTRAFT IS A PRODUCT OF

ARBUS LIMITED

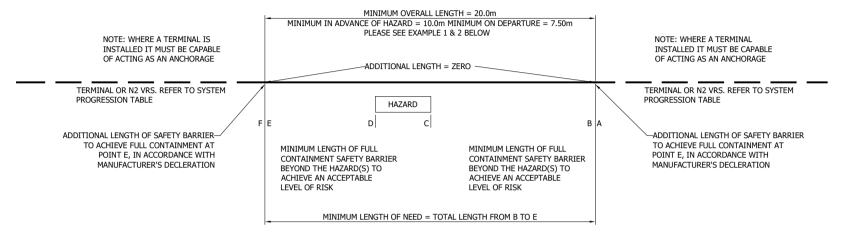
SAFEROAD RECOMMENDS SMARTRAFT AS AN ALTERNATIVE

VRS FOUNDATION TYPE

MR-GA-41

#### CD 377 MINIMUM LENGTHS FOR ACHIEVING FULL CONTAINMENT

ALL SYSTEMS INCLUSIVE OF ep ETC. WHEN USED FOR N2 CONTAINMENT



#### EXAMPLE 1:

LENGTH OF NEED IDENTIFIED AS 12.0m. 6.0M IN ADVANCE & 6.0m ON DEPARTURE. MINIMUM 10.0m IN ADVANCE WOULD DICTATE THE VRS HAS TO BE EXTENDED BY 4.0m TO ACHIEVE THE MINIMUM LENGTH OF FULL CONTAINMENT LENGTH OF HAZARD = 9.0m LENGTH OF VRS NOW = 19.0m LENGTH OF FULL CONTAINMENT ON THE DEPARTURE IS 6.0m THIS WILL NEED TO BE EXTENDED TO 7.5m TO ACHIEVE THE MINIMUM LENGTH OF FULL CONTAINMENT. TOTAL LENGTH OF THE VRS = 26.5m ROUNDED UP TO THE NEAREST UNIT LENGTH.

#### EXAMPLE 2:

LENGTH OF FULL CONTAINMENT IS 22.0m ON APPROACH & 8.0m ON DEPARTURE THE APPROACH LENGTH WOULD BE THE 22.0m IDENTIFIED IN APPENDIX 4/1 TO ACHIEVE THE MINIMUM 22.0m FULL CONTAINMENT.

LENGTH OF HAZARD = 9.0m LENGTH OF VRS NOW = 31.0m
THE DEPARTURE LENGTH WOULD BE THE 8.0m IDENTIFIED IN APPENDIX 4/1 TO ACHIEVE THE MINIMUM 8.0m CONTAINMENT.
TOTAL LENGTH = 39.0m ROUNDED UP TO THE NEAREST UNIT LENGTH.

01	25.05.21	DETAILS REVISED	M.T
00	05.02.21	DRAWING CREATED	М.Т
REVn	DATE	DETAILS	INITIAL

### MegaRail

CD 377 MINIMUM LENGTHS FOR ACHIEVING FULL CONTAINMENT

N2 SYSTEMS

## **SAFEROAD**<sup>®</sup>

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

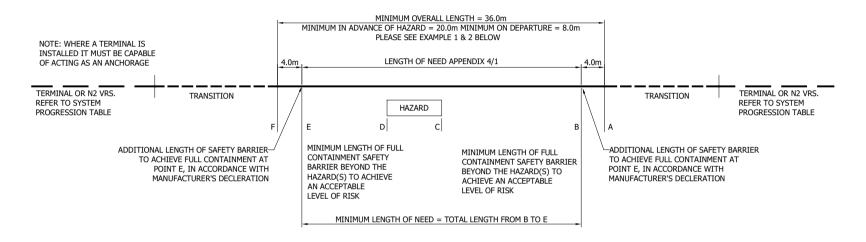
DRAWING NUMBER:

REVn

MR-GA-042

#### CD 377 MINIMUM LENGTHS FOR ACHIEVING FULL CONTAINMENT

HIGH CONTAINMENT SYSTEMS H1 & H2 WHERE THE LENGTH OF NEED ON THE APPROACH IS LESS THAN 30.0m OR ON DEPARTURE LESS THAN 10.5m.
WHERE THE LENGTH OF NEED IS EQUAL TO OR GREATER THAN 30 & 10.5 LENGTHS A TO B & E TO F = ZERO



#### EXAMPLE 1:

LENGTH OF FULL CONTAINMENT IDENTIFIED AS 12.0m IN ADVANCE & 6.0m ON DEPARTURE MINIMUM 20.0m IN ADVANCE WOULD INCOPORATE THE 4.0m OUTSIDE OF THE LENGTH OF FULL CONTAINMENT. LENGTH OF HAZARD = 9.0m LENGTH OF VRS NOW = 29.0m. LENGTH OF NEED ON DEPARTURE 6.0m + 4.0m E TO F = 10.0m TOTAL LENGTH OF THE VRS = 39.0m ROUNDED UP TO THE NEAREST UNIT LENGTH.

#### EXAMPLE 2:

LENGTH OF FULL CONTAINMENT IDENTIFIED AS 22.0m ON APPROACH & 2.0m ON DEPARTURE. THE APPROACH LENGTH WOULD BE THE 22.0m IDENTIFIED IN APPENDIX 4/1 PLUS THE 4.0m A TO B = 26.0m

LENGTH OF HAZARD 9.0m. LENGTH OF VRS NOW 35.0m

THE DEPARTURE LENGTH WOULD BE THE 2.0m IDENTIFIED IN APPENDIX 4/1 + 4.0m

E TO F = 6.0m + 2.0m TO ACHIEVE THE MINIMUM 8.0m.

TOTAL LENGTH 43.0m ROUNDED UP TO THE NEAREST UNIT LENGTH.

00	05.02.21	DRAWING CREATED	м.т
REV	n DATE	DETAILS	INITIAL

### MegaRail

CD 377 MINIMUM LENGTHS FOR ACHIEVING FULL CONTAINMENT

HIGH CONTAINMENT (H1 & H2)

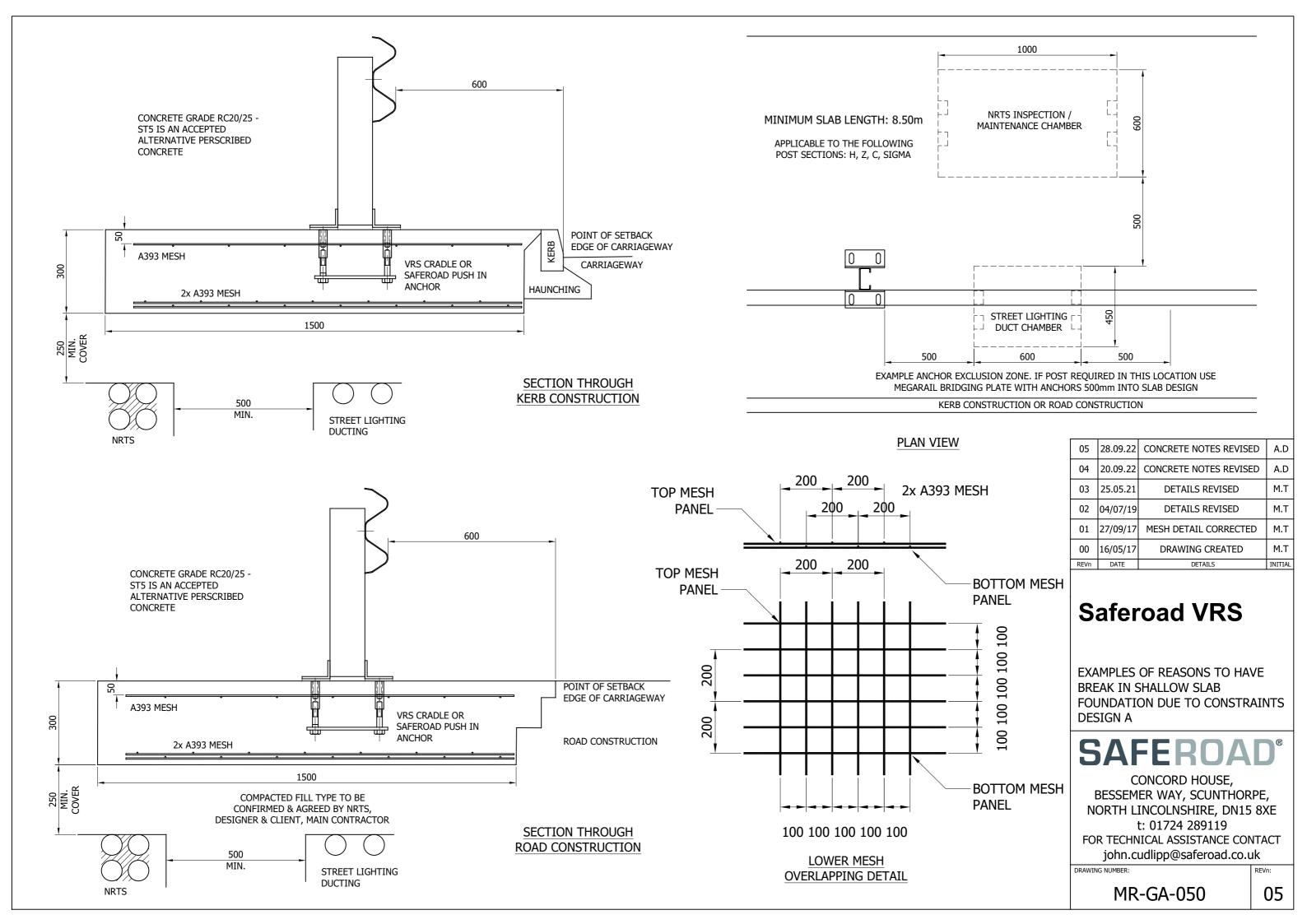
## **SAFEROAD®**

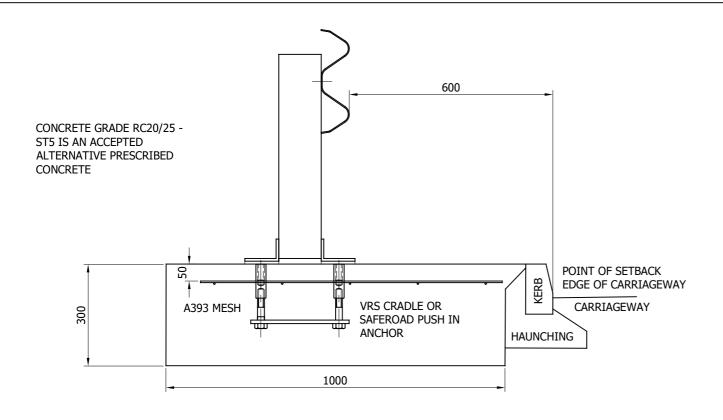
CONCORD HOUSE,
BESSEMER WAY, SCUNTHORPE,
NORTH LINCOLNSHIRE, DN15 8XE
t: 01724 289119
FOR TECHNICAL ASSISTANCE CONTACT
john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

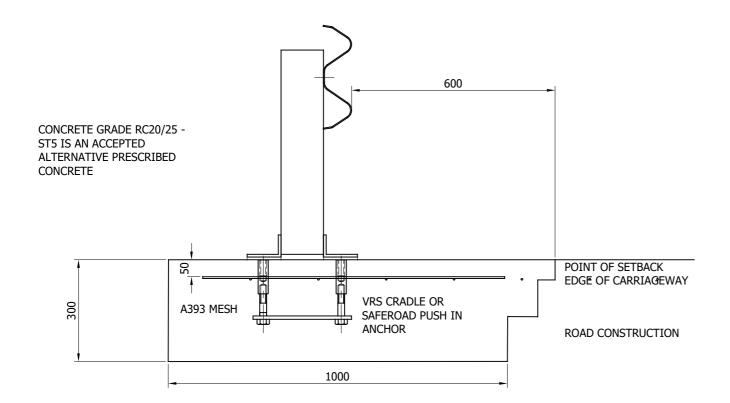
REVn:

MR-GA-043





SECTION THROUGH KERB CONSTRUCTION



SECTION THROUGH ROAD CONSTRUCTION

### MINIMUM SLAB LENGTHS:

12.0m LONG FOR H OR Z SECTION 8.0m LONG FOR C SECTION 7.0m FOR SIGMA SECTION

ANTI-CRACK JOINTS AT MAX 12.0m



KERB CONSTRUCTION OR ROAD CONSTRUCTION

### **PLAN VIEW**

05	28.09.22	CONCRETE NOTES REVISED	A.D
04	20.09.22	CONCRETE NOTES REVISED	A.D
03	27.06.22	DIMENSION ALTERED	A.D
02	25.05.21	DETAILS REVISED	M.T
01	04/07/19	DETAILS REVISED	M.T
00	16/05/17	DRAWING CREATED	M.T
REVn	DATE	DETAILS	INITIAL

## **Saferoad VRS**

EXAMPLES OF REASONS TO HAVE BREAK IN SHALLOW SLAB FOUNDATION DUE TO CONSTRAINTS DESIGN B

# **SAFEROAD®**

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john.cudlipp@saferoad.co.uk

DRAWING NUMBER:

REVn:

MR-GA-051

