

PLAN VIEW (VERGE/CENTRAL RESERVE)

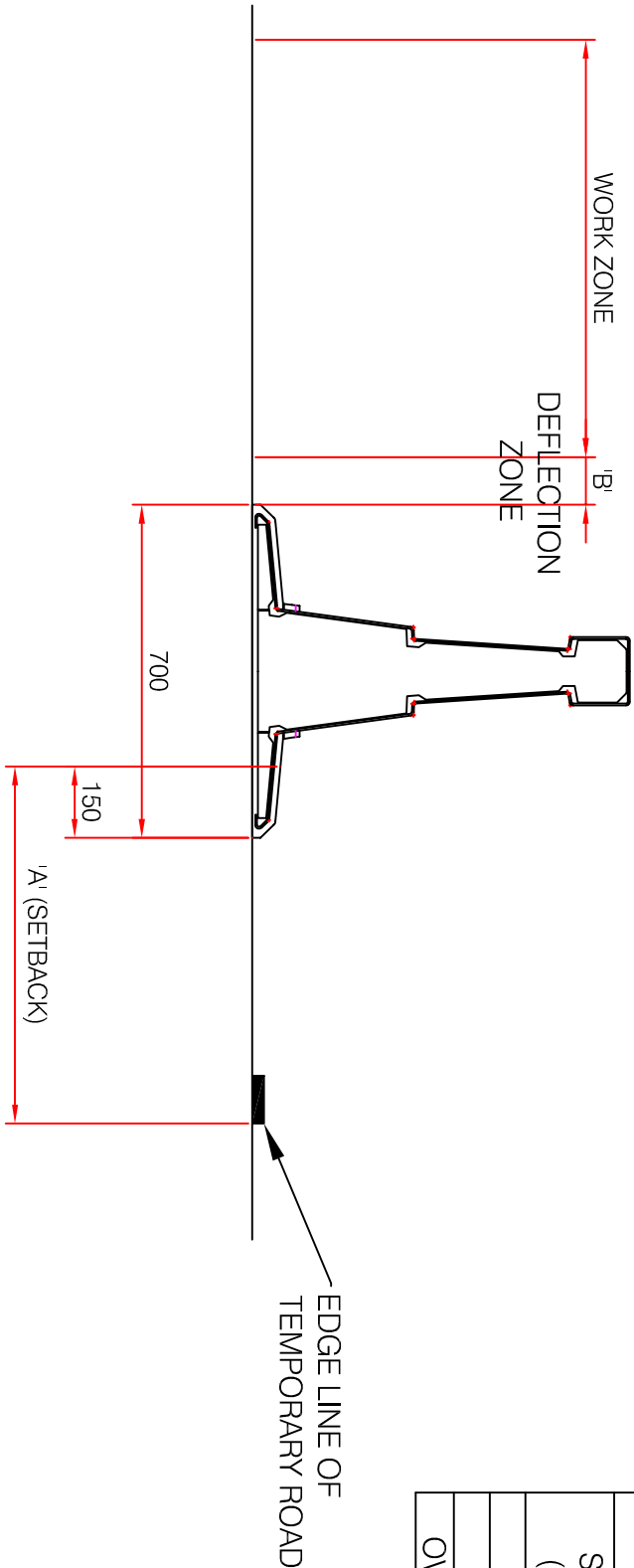


TABLE 1:-NORMAL LIMITS					
SPEED (mph)	A (mm)	B (mm)	L1 (m)	L2 (m)	
40	600	<100	32	12	
50	600	<100	40	12	
OVER 50	600	100	40	20	

TABLE 2:-RELAXED LIMITS		
SPEED (mph)	SETBACK (mm)	
40	375	
50	375	
OVER 50	600	

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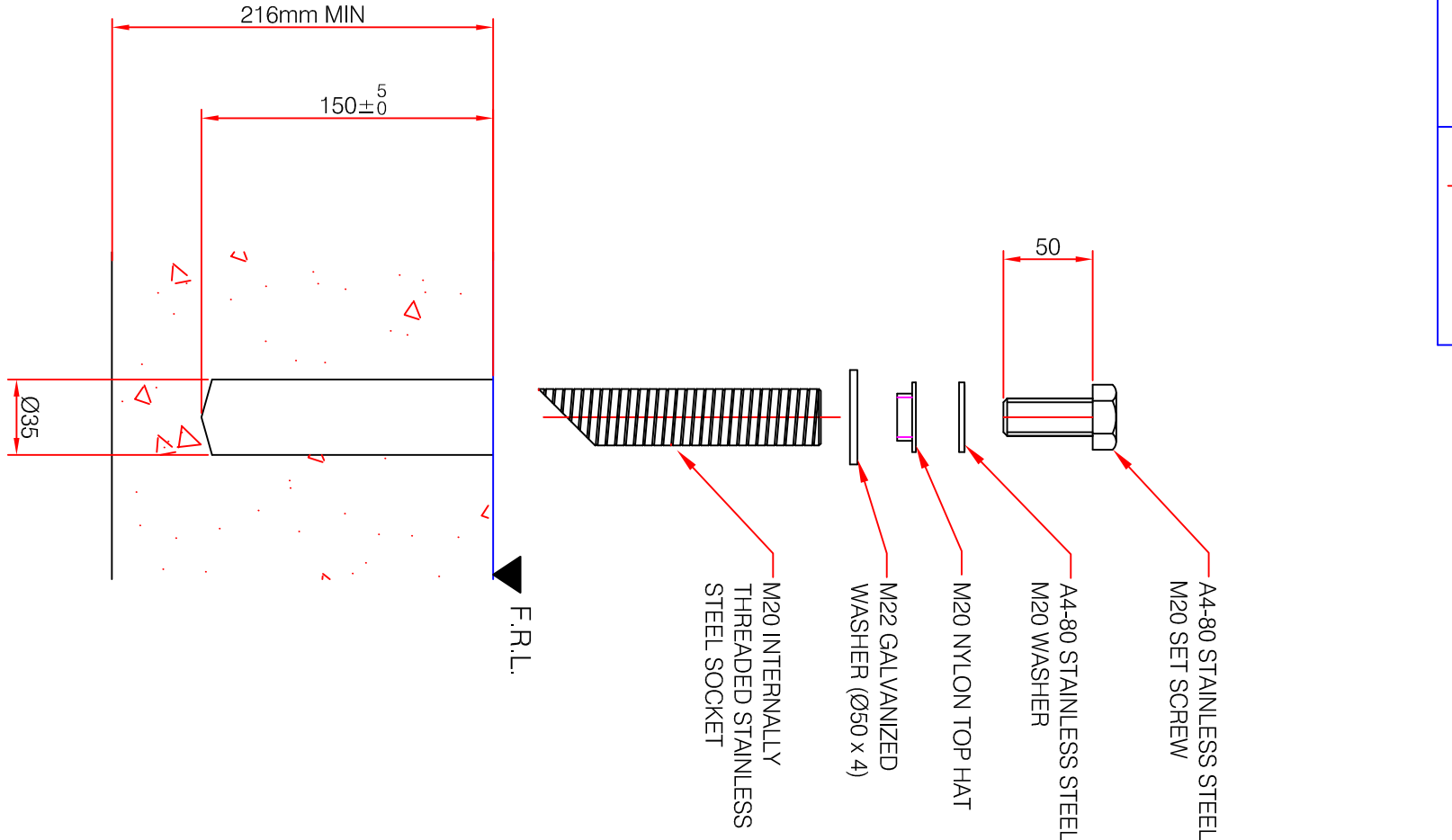
1. ASSEMBLE ZONEGUARD IN ACCORDANCE WITH ASSET INTERNATIONAL INSTRUCTIONS & NHSS 2B.
2. ZONEGUARD TO BE INSTALLED ON A PAVED OR HARDENED SURFACE WHICH SHALL EXTEND TO ITS FULL LENGTH & SPECIFIED WORKING WIDTH. THE DEFLECTION ZONE COLUMN 'B' TABLE 1 IS TO BE FREE FROM OBSTRUCTIONS TO ENSURE CORRECT DEFLECTION.
3. MINIMUM DIMENSION (L2) IS SPECIFIED FOR ONE WAY TRAFFIC. FOR TWO WAY TRAFFIC EG. CONTRAFLOW, MINIMUM DIMENSION (L2) SHALL BE INCREASED TO APPROACH LENGTH (L1).
4. APPROACH END OF ZONEGUARD SHOULD BE FLARED AWAY IN ADDITION TO SETBACK BY MIN 600mm OVER 24m. IF YOU CANNOT ACHIEVE FLARE STATED IN NOTE CONTACT ASSET VRS PRIOR TO WORKS COMMENCEMENT.
5. MINIMUM INSTALLATION LENGTH OF ZONEGUARD IS 96m.
6. WHEN ZONEGUARD IS ADJACENT TO AN EXCAVATION OR SCAFFOLD THE SAFETY ZONE MAY NEED TO BE INCREASED TO ENSURE STABILITY OF FOOTINGS / GROUNDWORKS.
7. RELAXED LIMITS (TABLE 2) CAN BE USED IF REQUIREMENTS OF TD 19/06 SECTION 8.19 ARE ACHIEVED.
8. WHERE AN UPSTAND IS PRESENT CONTACT ASSET VRS PRIOR TO WORKS COMMENCEMENT.
9. THIS DRAWING IS APPLICABLE TO ZONEGUARD SYSTEM 2.
10. REFER TO DRAWING No ZG2510 FOR PINNING ARRANGEMENT.
11. FOR RUNS EXCEEDING 500m AN EXPANSION UNIT HSVG7002 WILL BE REQUIRED AT MAXIMUM 500m CENTRES. REFER TO DRAWING No ZG2513 FOR REQUIREMENTS.

A	INITIAL RELEASE		45/13	MGR
1	CONCEPT RELEASE		45/13	
Rev	Remarks	ECN	Date	Check
Drawn By	Date	Material		
ATW/RIGHT	November 2013	SZ75		
Scale	Finish	Weight		
1:1 MODEL	HOT DIP GALV TO BS.ENISO.1461	N/A		

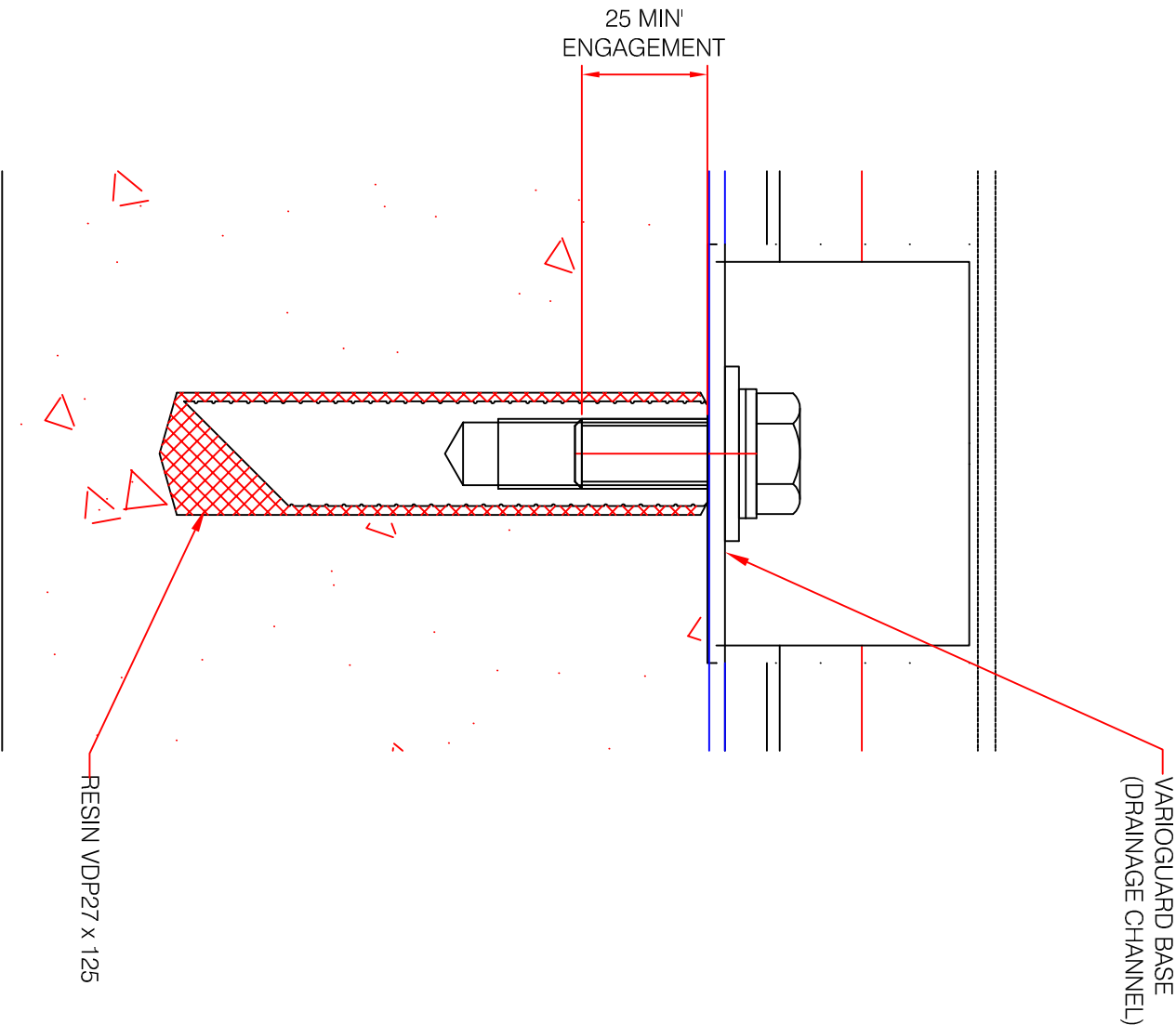
Description  
**GENERAL ARRANGEMENT  
FOR ZONEGUARD  
SYSTEM 2 (N2W2).**

**UNCONTROLLED  
WHEN PRINTED**

**ASSET**  
Springvale Business & Industrial Park,  
Bilston, Wolverhampton, WV14 - 0QL.  
INTERNATIONAL Tel: (01902) 499416 Fax: (01902) 402104  
E.mail:sales@varioguard.co.uk Website: www.varioguard.co.uk



M20 FIXING (EXPLODED)



M20 FIXING ENLARGED DETAIL

Fixing Requirements	
ITEM	No REQ'D
TERMINAL	6 No
INTERMEDIATE PINNING (20m/68m/200m)	2 No
SPLITTER UNIT	4 No
VECU-STOP	4No (CUSHION), 6 No (FIRST BEAM)

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NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- F.R.L. - FINISHED ROAD LEVEL.
- REQUIRED HOLE FOR SOCKET - Ø35MM.
- MINIMUM CONCRETE BASE THICKNESS TO BE 216mm
- THIS IS EXCLUDING ANY OTHER SURFACES.
- HOLES TO BE DRILLED PERPENDICULAR [90° ±0.25°] TO ANCHORAGE SURFACE.
- ANTI-SEIZE COPPER GREASE IS TO BE APPLIED TO EACH SET SCREW PRIOR TO FITTING.
- CONFIGURATION OF ATTACHMENT MUST COMPLY WITH THIS DRAWING. FAILURE TO DO SO MAY RESULT IN GALVANIC CORROSION.
- TORQUE REQUIREMENT MIN' 100 Nm.
- REFER TO VG2503, VG2506, VG2511 ARRANGEMENT DRAWINGS FOR PITCHES.
- FOR DETAILS OF FIXINGS GOING THROUGH ASPHALT REFER TO DRG No VG2027
- ALL FITTING AND PULL TESTING OF ANCHORAGES MUST BE UNDERTAKEN BY AN INSTALLER TRAINED ON ASSET INTERNATIONAL'S ANCHORAGE AND ATTACHMENT COURSE.
- FOR PERMANENT INSTALLATIONS PULL TESTS TO BS5080 pt 1 & TO BE UNDERTAKEN. FREQUENCY & FORCE AS DEFINED IN METHOD STATEMENT.

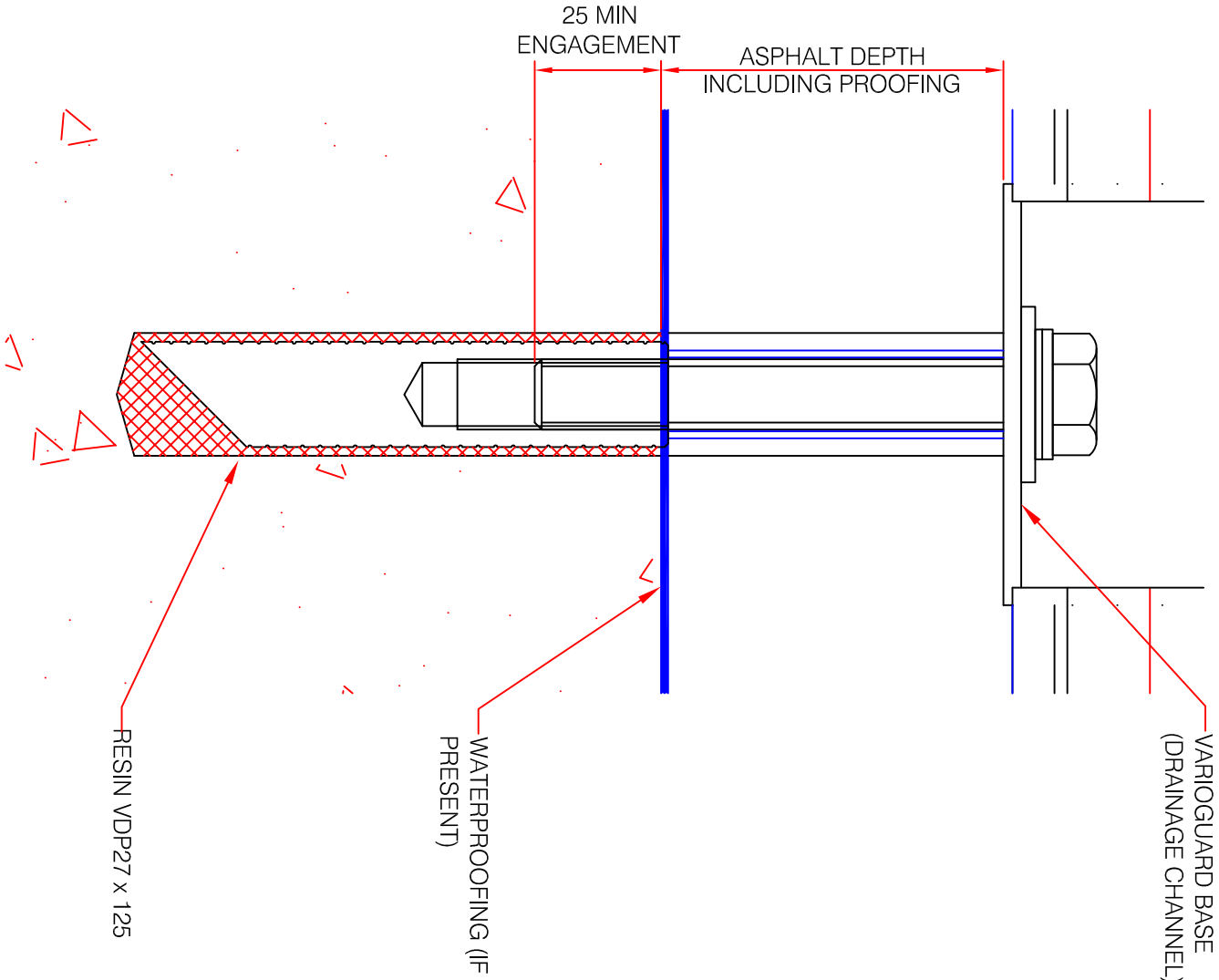
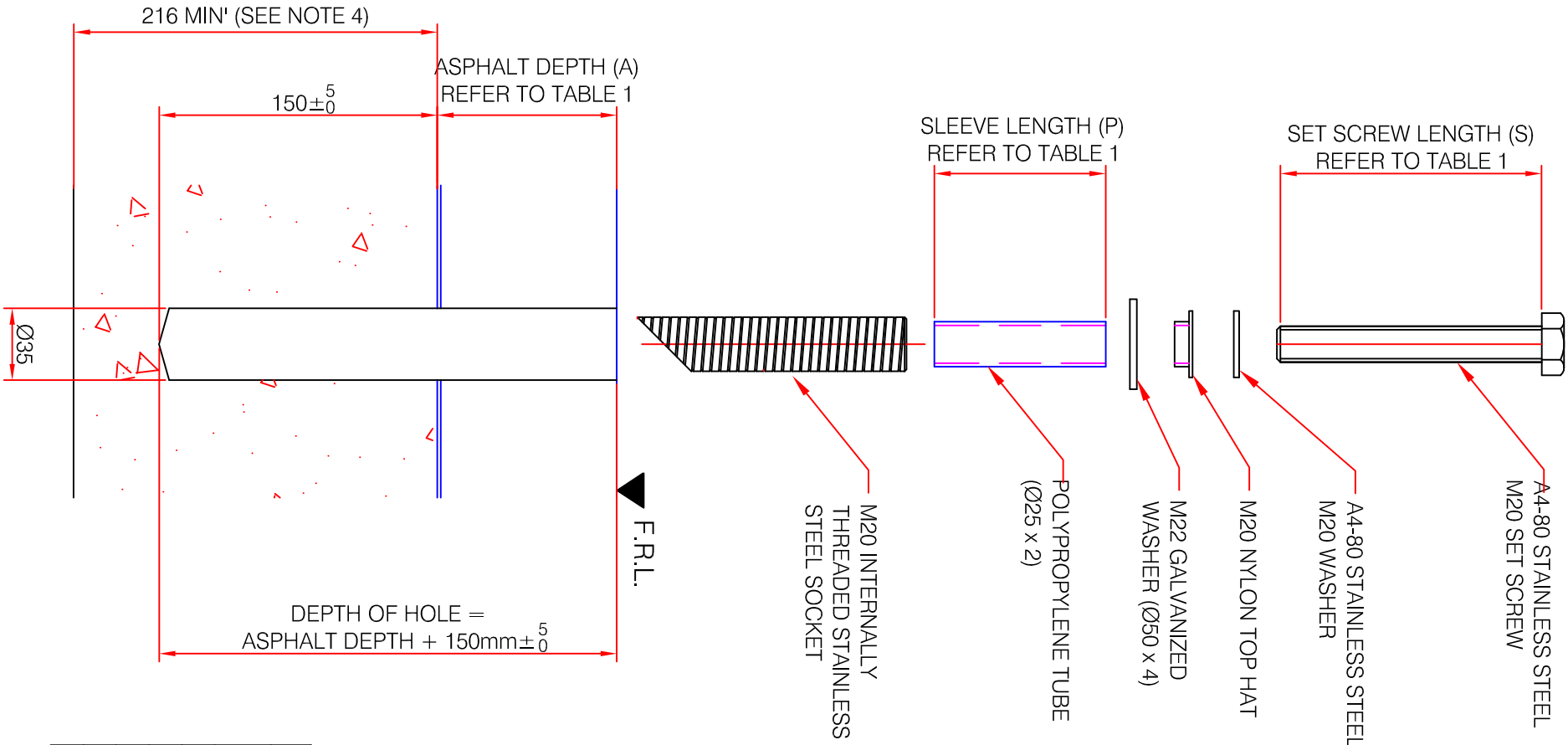
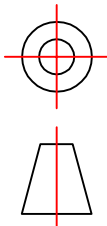
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B	REDRAWN, TABLE & NOTES ADDED			06/12	MGR
A	Redrawn & Drg No Altered (Previous Drg No - N/A)			10/03/02	
Rev	Remarks		ECN	Date	Check
Drawn By <i>A Wright</i>		Date MAR 2002	Material Stainless Steel, Nylon.		
Scale 1:1 Model	Finish N/A	Weight N/A			

Fixing of Varioguard to  
Concrete using M20 Sockets

UNCONTROLLED  
WHEN PRINTED

**ASSET** Springvale Business & Industrial Park,  
Bilston, Wolverhampton. WV14 - 0QL.  
INTERNATIONAL Tel: (01902) 499416 Fax: (01902) 402104  
E.mail:sales@varioguard.co.uk Website: www.varioguard.co.uk



M20 FIXING ENLARGED DETAIL

TABLE 1 - Anchorage Sets

ASPHALT THICKNESS (A)	POLYPROPYLENE SLEEVE (P)	SET SCREW LENGTH (S)
Less than 50mm	CONTACT ASSET	CONTACT ASSET
50-80mm	90mm	120mm
80-110mm	120mm	150mm
110-140mm	150mm	180mm
140mm & Above	CONTACT ASSET	CONTACT ASSET

TABLE 2 - Fixing Requirements

ITEM	No REQD
TERMINAL	6 No
INTERMEDIATE PINNING (20m/68m/200m)	2 No
SPLITTER UNIT	4 No
VECU-STOP	4No (CUSHION), 6 No (FIRST BEAM)

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NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- F.R.L. - FINISHED ROAD LEVEL.
- THICKNESS OF ASPHALT TO BE ESTABLISHED PRIOR TO INSTALLATION COMMENCING.
- MINIMUM CONCRETE BASE THICKNESS TO BE 216mm THIS IS EXCLUDING ANY OTHER SURFACES.
- REQUIRED HOLE FOR SOCKET - Ø35MM.
- HOLES TO BE DRILLED PERPENDICULAR [90°±0.25°] TO ANCHORAGE SURFACE.
- ANTI-SEIZE COPPER GREASE IS TO BE APPLIED TO EACH SET SCREW PRIOR TO FITTING.
- CONFIGURATION OF ATTACHMENT MUST COMPLY WITH THIS DRAWING. FAILURE TO DO SO MAY RESULT IN GALVANIC CORROSION.
- TORQUE REQUIREMENT MIN' 100 Nm.
- REFER TO VG2503, VG2506, VG2511 ARRANGEMENT DRAWINGS FOR PITCHES.
- FOR DETAILS OF FIXINGS DIRECTLY TO CONCRETE REFER TO DRG No VG2028
- ONLY TO BE INSTALLED BY PRODUCT SPECIFIC NHSS 2B TRAINED INSTALLERS.

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BEDRAWN, TABLES & NOTES

B	ADDED		06/12	MGR
A	Redrawn & Drg No Altered (Previous Drg No - N/A)	101	03/02	

Rev	Remarks	ECN	Date	Check
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Drawn By	Date	Material
A J W right	MAR 2002	STAINLESS STEEL, NYLON

Scale	Finish	Weight
1:1 MODEL	N/A	N/A

Description

Varioguard Fixing  
On Structures & In Tunnels

UNCONTROLLED  
WHEN PRINTED

ASSET Springvale Business & Industrial Park,  
Bilston, Wolverhampton, WV14 - 0QL.

INTERNATIONAL Tel: (01902) 499416 Fax: (01902) 402104  
E.mail: sales@varioguard.co.uk Website: www.varioguard.co.uk

Drawing No.

VG2027

M20 FIXING (EXPLODED)