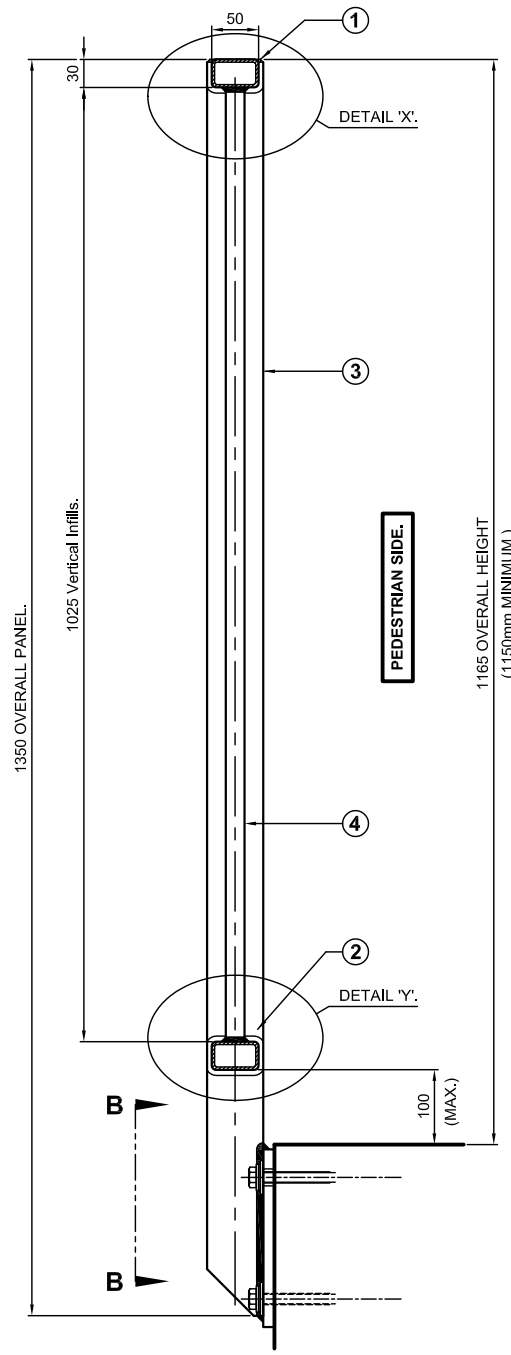
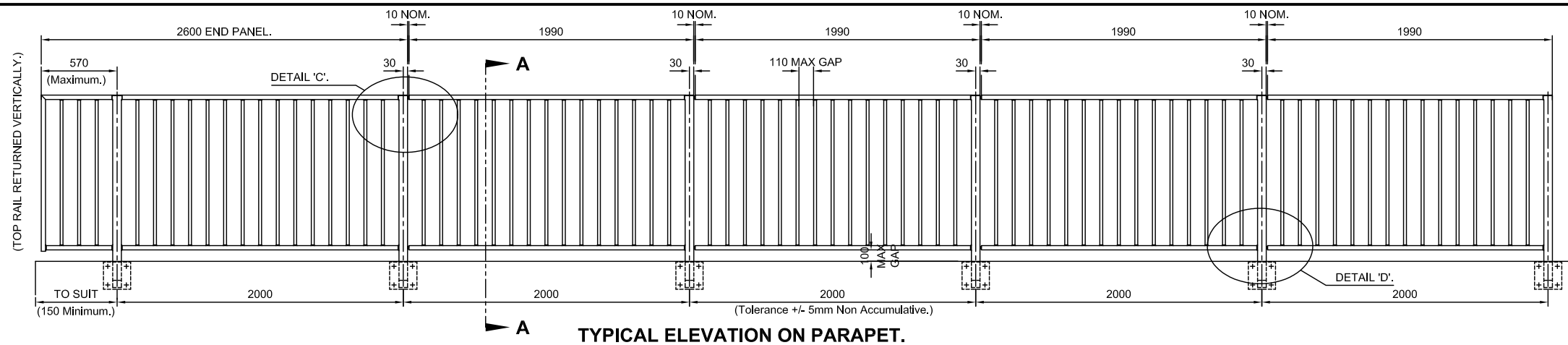


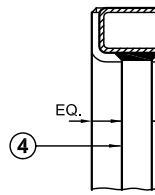
SECTION A:A.



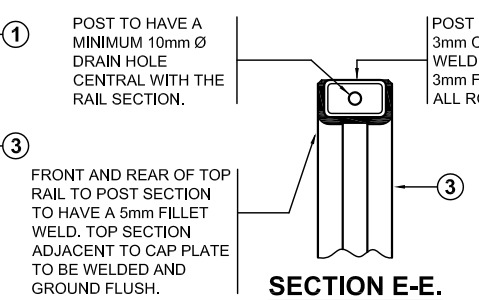
TYPICAL ELEVATION ON PARAPET.

ALTERNATIVE END PANEL.

(WITHOUT OVERHANG.)

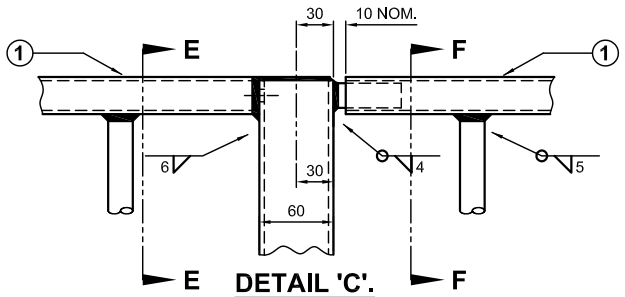


DETAIL 'X'.

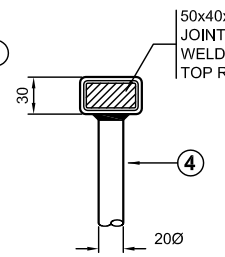


SECTION E-E.

POSTS TO BE AT THE HIGH POINT OF ANY RAKING / SLOPING PANELS.

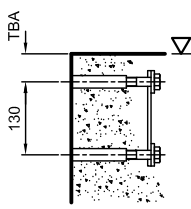


DETAIL 'C'.



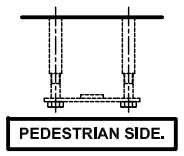
SECTION F-F.

THE CONCRETE PLINTH IS TO BE DESIGNED BY OTHERS TO RESIST WITHOUT DAMAGE THE FORCES TRANSMITTED BY THE PARAPET UNDER LOAD.

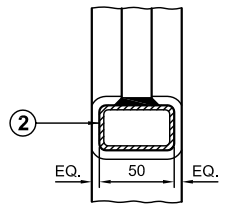


SECTION THROUGH PLINTH.

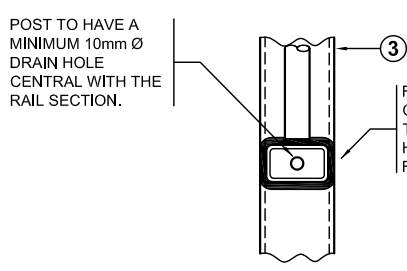
ANCHORAGES TO BE ALIGNED PERPENDICULAR TO THE LONGITUDINAL ALIGNMENT OF THE CONCRETE PLINTH.



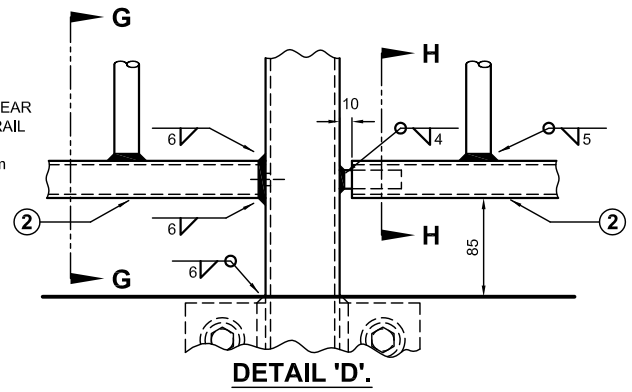
PLAN VIEW.



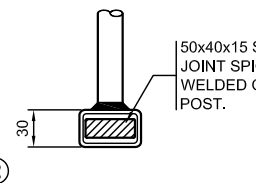
DETAIL 'Y'.



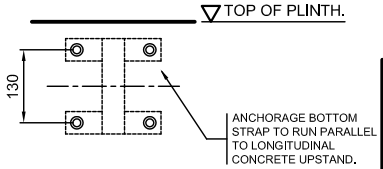
SECTION G-G.



DETAIL 'D'.



SECTION H-H.



SIDE VIEW.

ANCHORAGE DETAILS.

APPROVED ANCHORAGE UNITS
DRAWING NUMBER
VGAS/11.
OR OTHER APPROPRIATELY APPROVED CAST-IN OR DRILLED ANCHORAGE SYSTEM.

GENERAL NOTES.

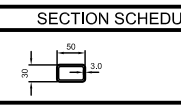
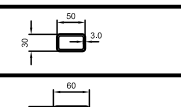
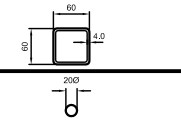
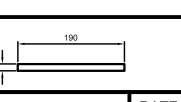
1/. ALL STEEL WELDING TO BE IN ACCORDANCE WITH BS.EN.1011-1 and 2.

2/. WELDERS AND WELDING PROCEDURES ARE IN ACCORDANCE WITH BS.EN.ISO.9606-1 AND BS.EN.ISO.15607.

3/. PANELS CANNOT BE RADIUSED TO SUIT ON SITE. TIGHTER RADII CAN BE SUPPLIED PREFORMED BY SPECIAL ARRANGEMENT.

4/. DIMENSIONS RELATIVE TO HEIGHT DATUM ASSUME THERE IS NO LONGITUDINAL FALL ON THE PLINTH. ADDITIONAL TOLERANCES TO TAKE ACCOUNT OF THESE FALLS ARE PERMISSIBLE.

5/. AN EASILY LEGIBLE IDENTIFICATION PLATE SHALL BE APPLIED AND LOCATED NEAR TO THE TOP OF THE FIRST POST AT EACH APPROACH END IN AN EASILY VISIBLE POSITION.

SECTION SCHEDULE		
1		TOP RAIL SECTION.
2		INTERMEDIATE RAIL SECTION.
3		POST SECTION.
4		VERTICAL INFILL SECTION.
5		BASEPLATE SECTION.

Rev	Date	By	Description

MANUFACTURING TOLERANCES.

TOLERANCES AS SHOWN UNLESS STATED OTHERWISE.	
DIMENSIONS.	TOLERANCES.
GREATER THAN 1000mm.	± 2mm
LESS THAN 1000mm.	± 1mm
ANGULAR DIMENSIONS.	± 0°15'

NOTE: ALL ACCUMULATIVE TOLERANCES ARE TO BE CONTAINED WITHIN THE OVERALL TOLERANCE.

SITE ERECTION TOLERANCES.

WILL VARY TO SUIT SITE CONDITIONS.

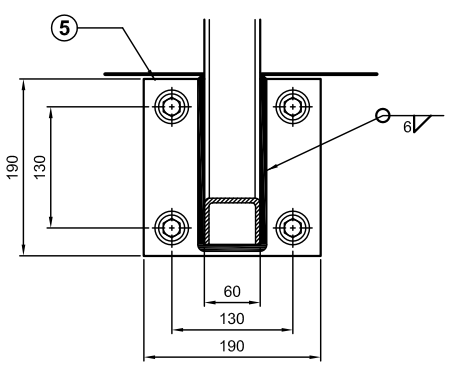
ALL STANDARDS QUOTED ARE DEEMED CURRENT AT THE DATE THE DRAWING IS ISSUED FOR APPROVAL, UNLESS OTHERWISE STATED.

THIS DRAWING TO BE USED ONLY WITH

W/O.No.

DRAWING TO BE RETURNED TO DRAWING OFFICE ON COMPLETION OF WORK

SCALE		DATE	12/11/2014
DRN.	P.G.H.	CHK.	D.V.C.



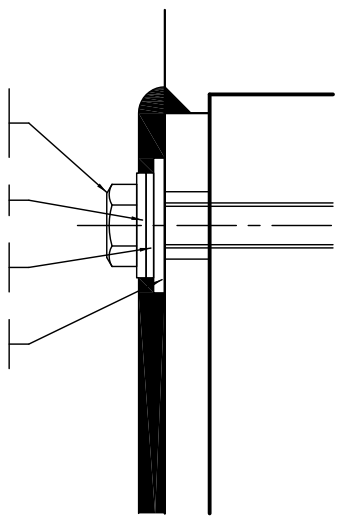
VIEW ON B:B.

M12 HOLDING DOWN SETSCREWS / BOLTS TO HAVE A MINIMUM ENGAGEMENT OF 15mm WITH V&G ANCHORAGES. ANCHORAGE SUPPLIER TO CONFIRM MINIMUM ENGAGEMENT.

M12 STAINLESS STEEL FLAT WASHER FORM 'C' UNDER THE BOLT HEAD.

M12 NYLON 'TOP HAT' WASHER BETWEEN THE STAINLESS STEEL WASHER AND THE GALVANISED WASHER.

M12 GALVANISED STEEL FLAT WASHER FORM 'G' BETWEEN THE NYLON WASHER AND THE BASEPLATE.



ENLARGED VIEW ON HOLDING DOWN BOLT ARRANGEMENT.

MATERIAL SPECIFICATION.			
ITEM	SPECIFICATION	ITEM	SPECIFICATION
TOP RAIL.	TOP RAIL AND INTER RAILS IN ACCORDANCE WITH BS.EN.10219-1 AND BS.EN.10219-2 GRADE S275J2H, POST IN ACCORDANCE WITH BS.EN.10210-1 AND BS.EN.10210-2 GRADE S355J2H, BASEPLATE, INFILLS AND JOINTS IN ACCORDANCE WITH BS.EN.10025-1 AND BS.EN.10025-2 GRADE S275JO.	BOLTS.	ALL BOLTS / SETPINS TO CONFORM TO BS.3692 AND BE STAINLESS STEEL TO BS.EN.ISO.3506-1 GRADE A4/80.
TOP JOINT.			
POST SECTION.			
INTER RAIL JOINT.		PLAIN WASHERS.	STAINLESS STEEL WASHERS TO BE M12 FORM 'C' CONFORMING TO BS.4320 AND TO BS.EN.ISO.3506 GRADE A4 OR A2. GALVANISED STEEL WASHERS TO BE M12 FORM 'G' CONFORMING TO BS.4320 AND NYLON TOP HAT WASHER TO BE M12 CONFORMING TO NYLON 66 OR SIMILAR.
INTER RAIL.			
BASEPLATE.			
INFILLS.			

PEDESTRIAN PARAPET INFORMATION	
UNFACTORED MOMENT OF RESISTANCE OF POST (kNm) AT UNDERSIDE OF BASEPLATE.	6.50kNm
SHEAR FORCE RESISTANCE OF POST (kN)	93.61kN
SIZE OF HOLDING DOWN BOLTS	M12

PEDESTRIAN GUARDRAIL PERFORMANCE.	
Eurocode 3 BS.EN.1993-1-1:2005	
POST AND RAIL.	CLASS 'D'.
INFILL.	CLASS '1'
BS.7818:1995	
POST AND RAIL.	CLASS '3'.
INFILL.	CLASS 'C'

ALL DIMENSIONS IN MM.

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Website. www.v-and-g.co.uk

TITLE

STANDARD ARRANGEMENT DRAWINGS OF STEEL PEDESTRIAN PARAPET SYSTEM - 1150mm HIGH. (Side Fixed.)

DRAWING NUMBER

VGSPP - 06SF.