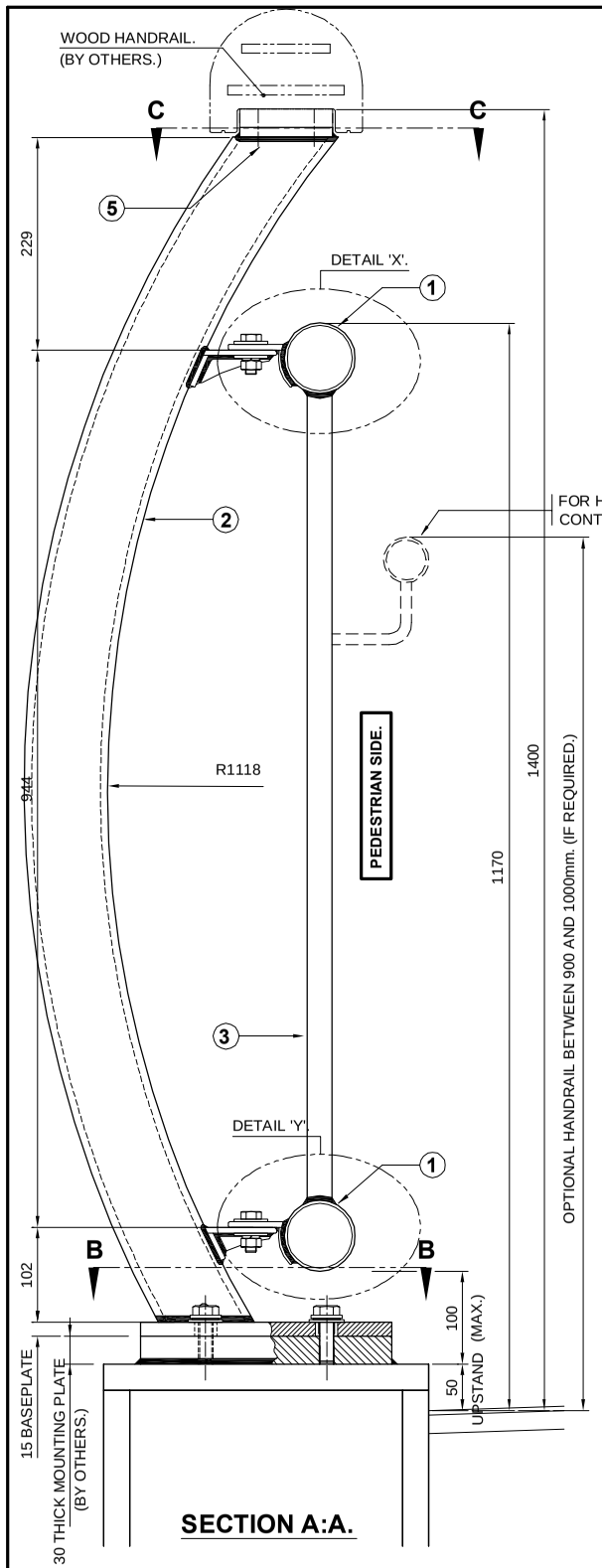
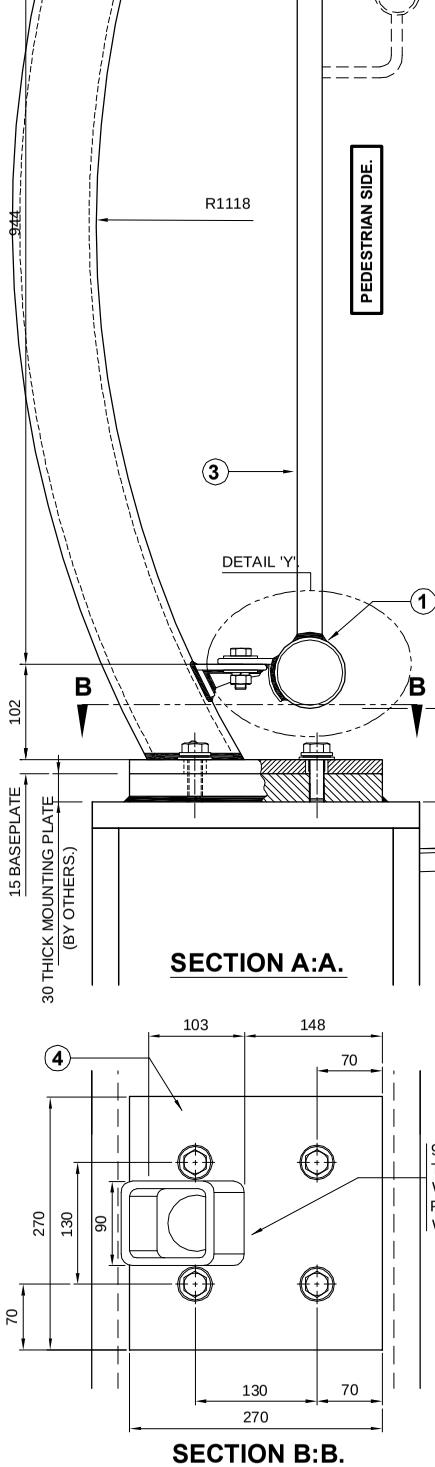
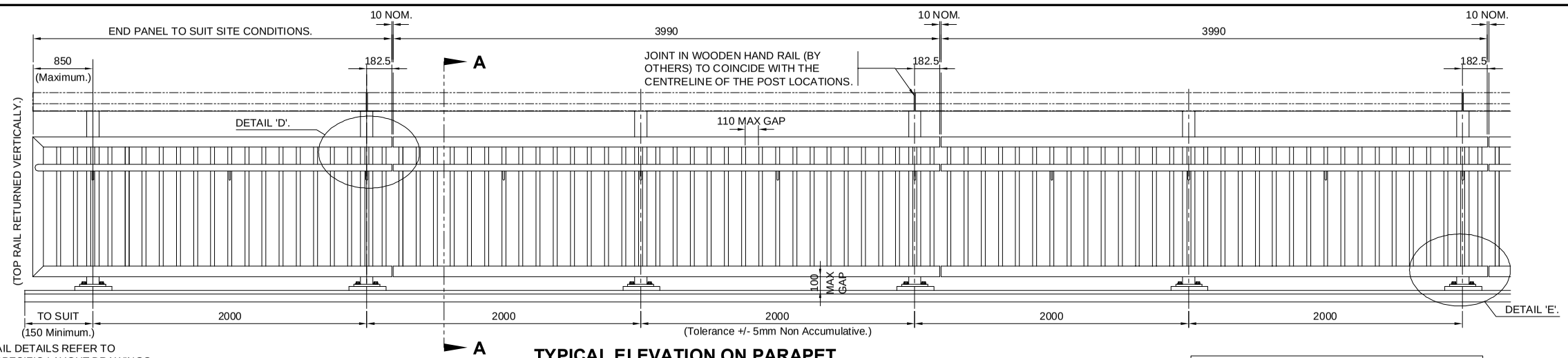


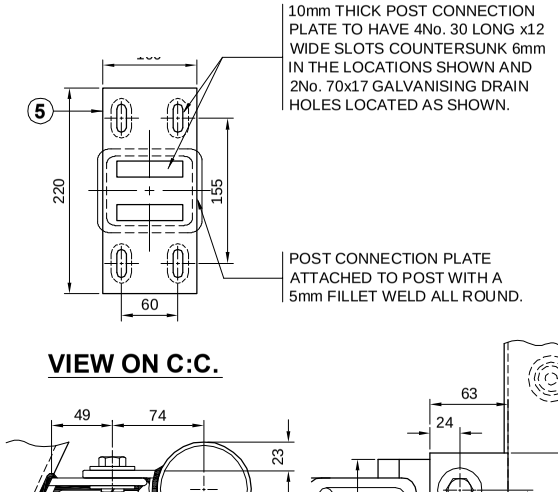
SECTION A:A.



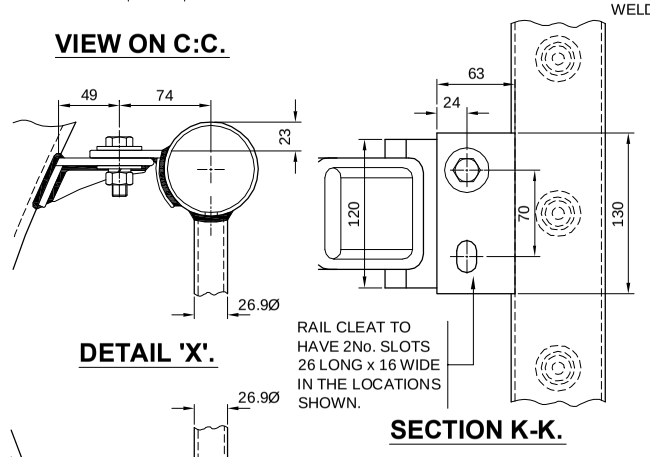
SECTION B:B.



TYPICAL ELEVATION ON PARAPET.

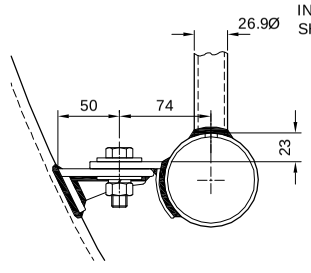


VIEW ON C:C.

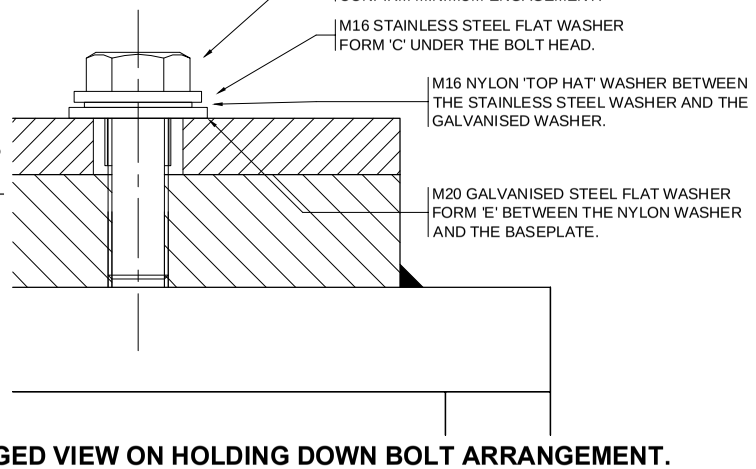


DETAIL 'X'.

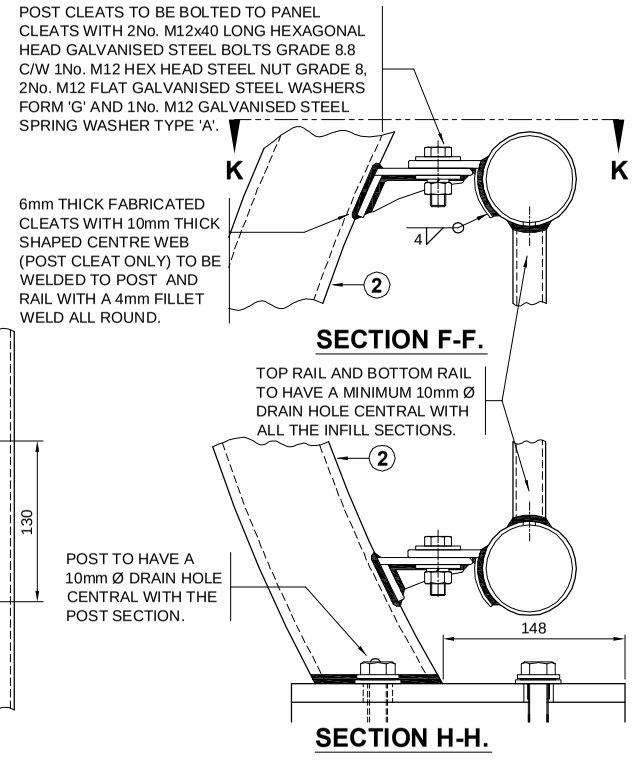
SECTION K-K.



DETAIL 'Y'.



ENLARGED VIEW ON HOLDING DOWN BOLT ARRANGEMENT.

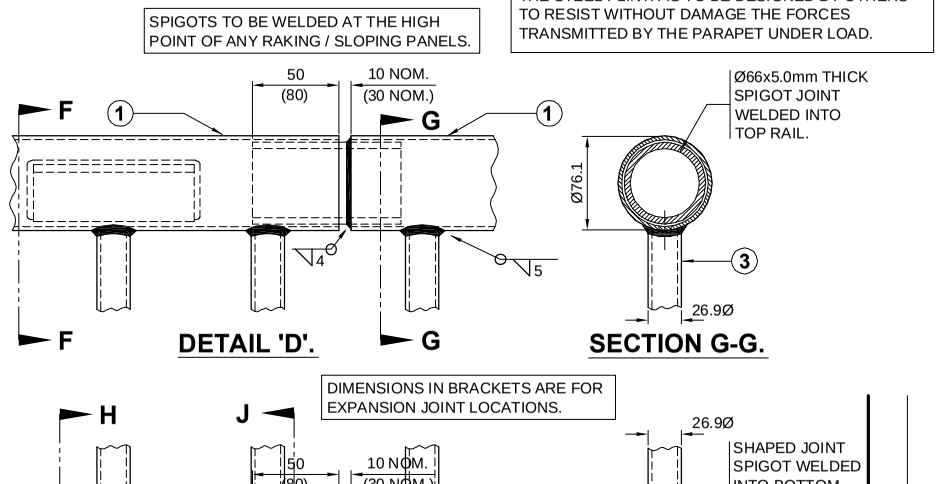


SECTION F-F.

SECTION H-H.

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

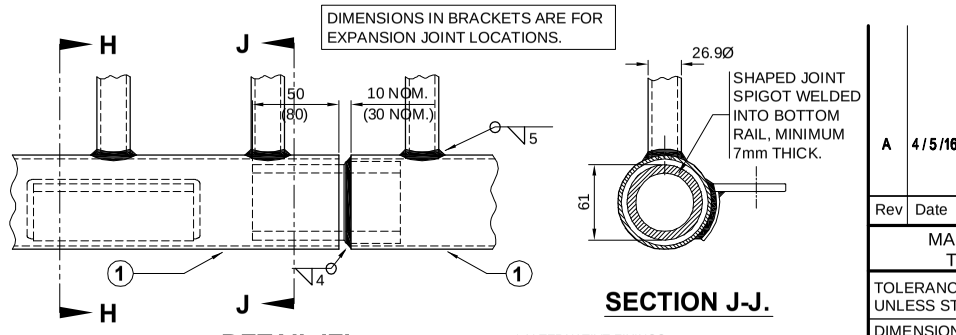
THE STEEL PLINTH IS TO BE DESIGNED BY OTHERS TO RESIST WITHOUT DAMAGE THE FORCES TRANSMITTED BY THE PARAPET UNDER LOAD.



DETAIL 'D'.

SECTION G-G.

DIMENSIONS IN BRACKETS ARE FOR EXPANSION JOINT LOCATIONS.



DETAIL 'E'.

SECTION J-J.

* ALTERNATIVE FIXINGS:
AS A COST OPTION ALL FIXINGS CAN BE STAINLESS STEEL TO BS.EN.ISO.3506-1 GRADE A4/80 SUPPLIED WITH APPROPRIATE NYLON ISOLATION WASHERS.

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.

MATERIAL SPECIFICATION.

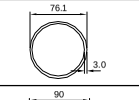
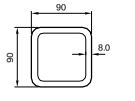
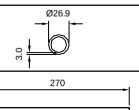
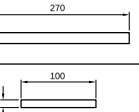
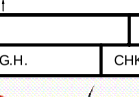
ITEM	SPECIFICATION	ITEM	SPECIFICATION
TOP & BOTTOM RAIL.	TOP AND BOTTOM RAILS AND INFILLS IN ACCORDANCE WITH BS.EN.10219-1 AND BS.EN.10219-2 GRADE S275J2H, POST IN ACCORDANCE WITH BS.EN.10210-1 AND BS.EN.10210-2 GRADE S355J2H, BASEPLATE, CONNECTION PLATES, JOINTS AND CLEATS IN ACCORDANCE WITH BS.EN.10025-1 AND BS.EN.10025-2 GRADE S275JO.	BOLTS.	HOLDING DOWN BOLTS / SETPINS TO CONFORM TO BS.3692 AND BE M16 STAINLESS STEEL TO BS.EN.ISO.3506-1 GRADE A4/80. M12 FIXINGS TO CONFORM TO BS.3692 GRADE 8.8 AND GRADE 8 FOR NUTS.*
RAIL JOINTS.		PLAIN WASHERS.	STAINLESS STEEL WASHERS TO BE M16 FORM 'C' CONFORMING TO BS.4320 AND TO BS.EN.ISO.3506 GRADE A4 OR A2. GALVANISED STEEL WASHERS TO BE M20 FORM 'E' AND M12 FORM 'G' CONFORMING TO BS.4320 AND NYLON TOP HAT WASHER TO BE M16 CONFORMING TO NYLON 66 OR SIMILAR.
POST SECTION.			
BASEPLATE.			
INFILLS.			
TOP CONNECTION PLATE.			
CLEATS.			

PEDESTRIAN PARAPET INFORMATION	
UNFACTORED MOMENT OF RESISTANCE OF POST (kNm) AT UNDERSIDE OF BASEPLATE.	27.6kNm
SHEAR FORCE RESISTANCE OF POST (kN)	261.9kN
SIZE OF HOLDING DOWN BOLTS	M16

PEDESTRIAN PARAPET PERFORMANCE.	
Eurocode 3 BS.EN.1993-1-1:2005	
POST AND RAIL.	CLASS 'J'.
INFILL.	CLASS '3'

ALL DIMENSIONS IN MM.

SECTION SCHEDULE

1		TOP AND BOTTOM RAIL SECTION.
2		POST SECTION.
3		VERTICAL INFILL SECTION.
4		BASEPLATE SECTION.
5		POST CONNECTION SECTION.

SCALE		DATE	25/09/2015
DRN.	P.G.H.	CHK.	D.V.C.

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

SITE ERECTION TOLERANCES.

WILL VARY TO SUIT SITE CONDITIONS.

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Rev	Date	By	Description
A	4 / 5 /16	D.V.C.	DRAWING REVISED TO SUIT 50mm UPSTAND HEIGHT.

MANUFACTURING TOLERANCES.

TOLERANCES AS SHOWN UNLESS STATED OTHERWISE.

DIMENSIONS.	TOLERANCES.
GREATER THAN 1000mm.	± 2mm
LESS THAN 1000mm.	± 1mm
ANGULAR DIMENSIONS.	± 0°15'

Varley and Gulliver Ltd.
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Tel. 44 (0) 121 773 2441
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Website. www.v-and-g.co.uk

TITLE
STANDARD ARRANGEMENT DRAWINGS OF STEEL PEDESTRIAN PARAPET SYSTEM - 1400mm HIGH.

DRAWING NUMBER
VGSPP - 13A
(Sheet 1 of 2.)

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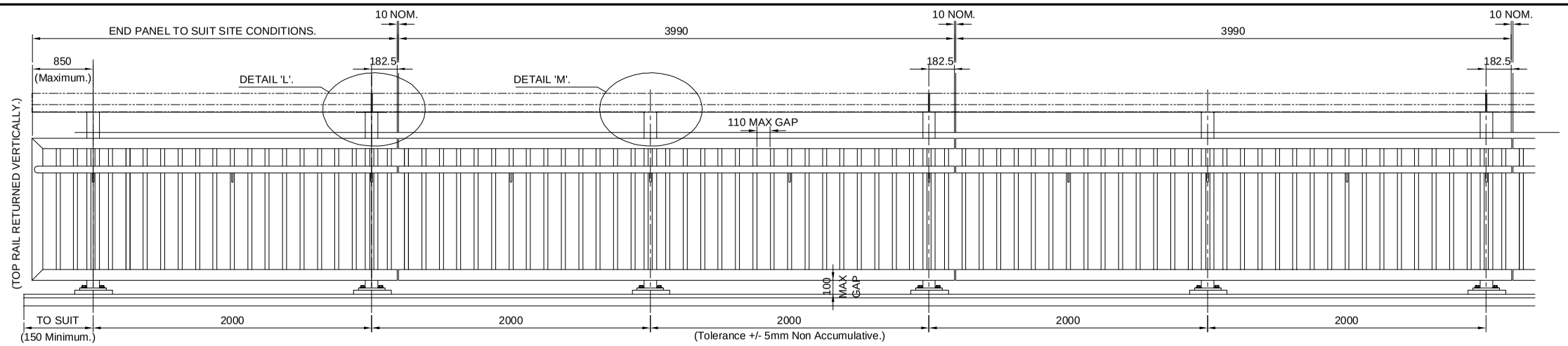
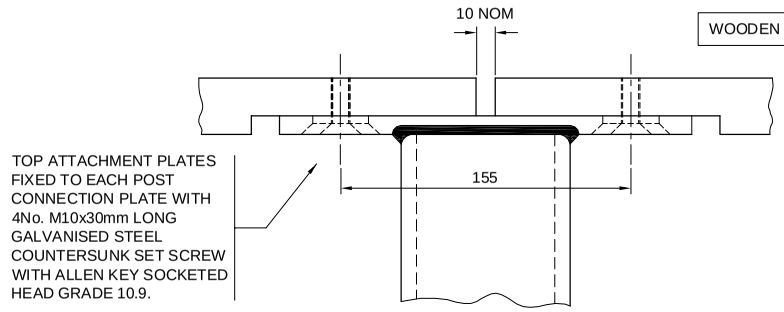
STEEL PEDESTRAIN PARAPET SYSTEMS ARE COVERED BY DESIGN RIGHTS AND PATENT PENDING.

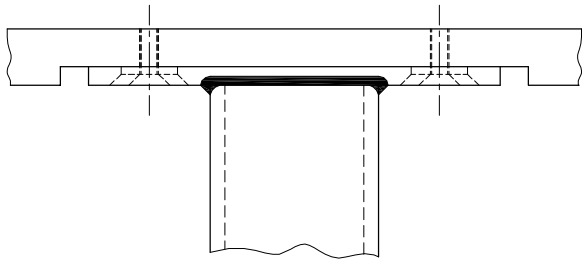


TYPICAL ELEVATION ON PARAPET.

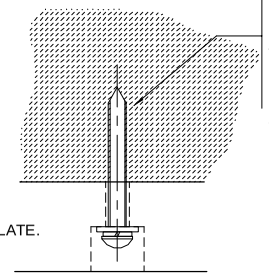


DETAIL 'L'.

WOODEN HANDRAIL NOT SHOWN FOR CLARITY.

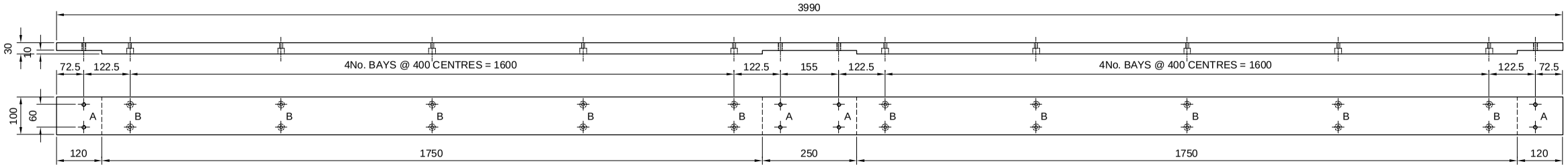


DETAIL 'M'.



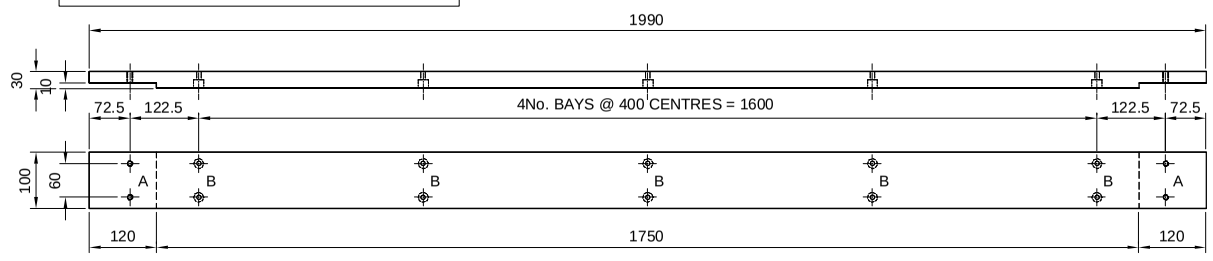
WOODEN HANDRAIL FIXED TO TOP ATTACHMENT PLATE WITH M6x50mm LONG STAINLESS STEEL SELF TAPPING SCREWS WITH A POZI PAN HEAD, C/W 1No. M6 FLAT ST'STEEL WASHER FORM 'C' AND 1No. M6 ST' STEEL SPRING WASHER TYPE 'B'. WOODEN HANDRAIL MAY REQUIRE PRE-DRILLING PRIOR TO INSTALLATION OF FIXING - TO BE CONFIRMED BY THE HANDRAIL SUPPLIER.
(FIXING TO BE USED AT ALL LOCATIONS DESIGNATED 'B' ON THE ATTACHMENT PLATE DETAILS BELOW.)

ENLARGED VIEW ON CONNECTION BETWEEN WOODEN HANDRAIL AND THE STEEL ATTACHMENT PLATE.

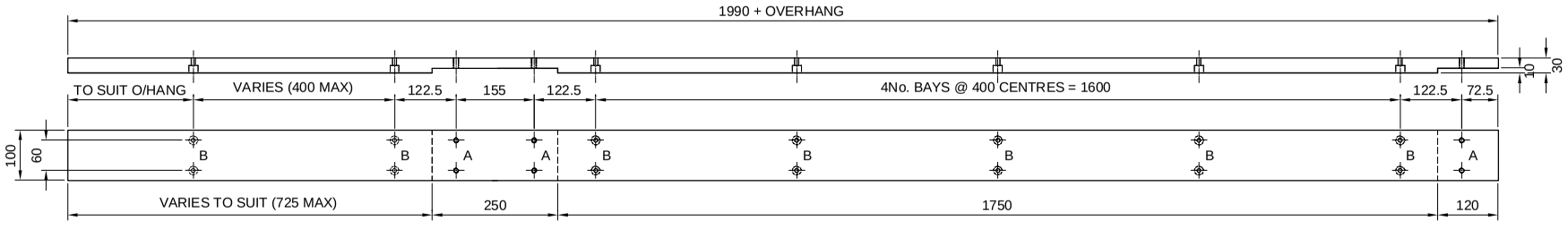


'A' DENOTES A SET OF M10 DRILLED AND TAPPED HOLES.
'B' DENOTES A SET OF HOLES DRILLED 8Ø AND COUNTERBORED 18Ø FOR A DEPTH OF 15mm.

FRONT ELEVATION AND PLAN VIEW ON DOUBLE PANEL TOP ATTACHMENT PLATE.



FRONT ELEVATION AND PLAN VIEW ON SINGLE PANEL TOP ATTACHMENT PLATE.



FRONT ELEVATION AND PLAN VIEW ON A OVERHANGING END PANEL TOP ATTACHMENT PLATE.

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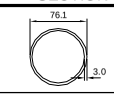
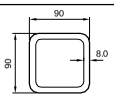
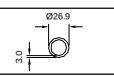
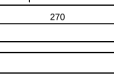
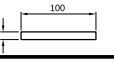
ALL DIMENSIONS IN MM.

SECTION SCHEDULE		
1		TOP AND BOTTOM RAIL SECTION.
2		POST SECTION.
3		VERTICAL INFILL SECTION.
4		BASEPLATE SECTION.
5		POST CONNECTION SECTION.

SCALE		DATE	25/09/2015
DRN.	P.G.H.	CHK.	D.V.C.

Rev	Date	By	Description
A	4 / 5 /16	D.V.C.	DRAWING REVISED TO SUIT 50mm UPSTAND HEIGHT.

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STANDARD ARRANGEMENT DRAWINGS OF STEEL PEDESTRIAN PARAPET SYSTEM - 1400mm HIGH.

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VGSPP - 13A
(Sheet 2 of 2.)

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