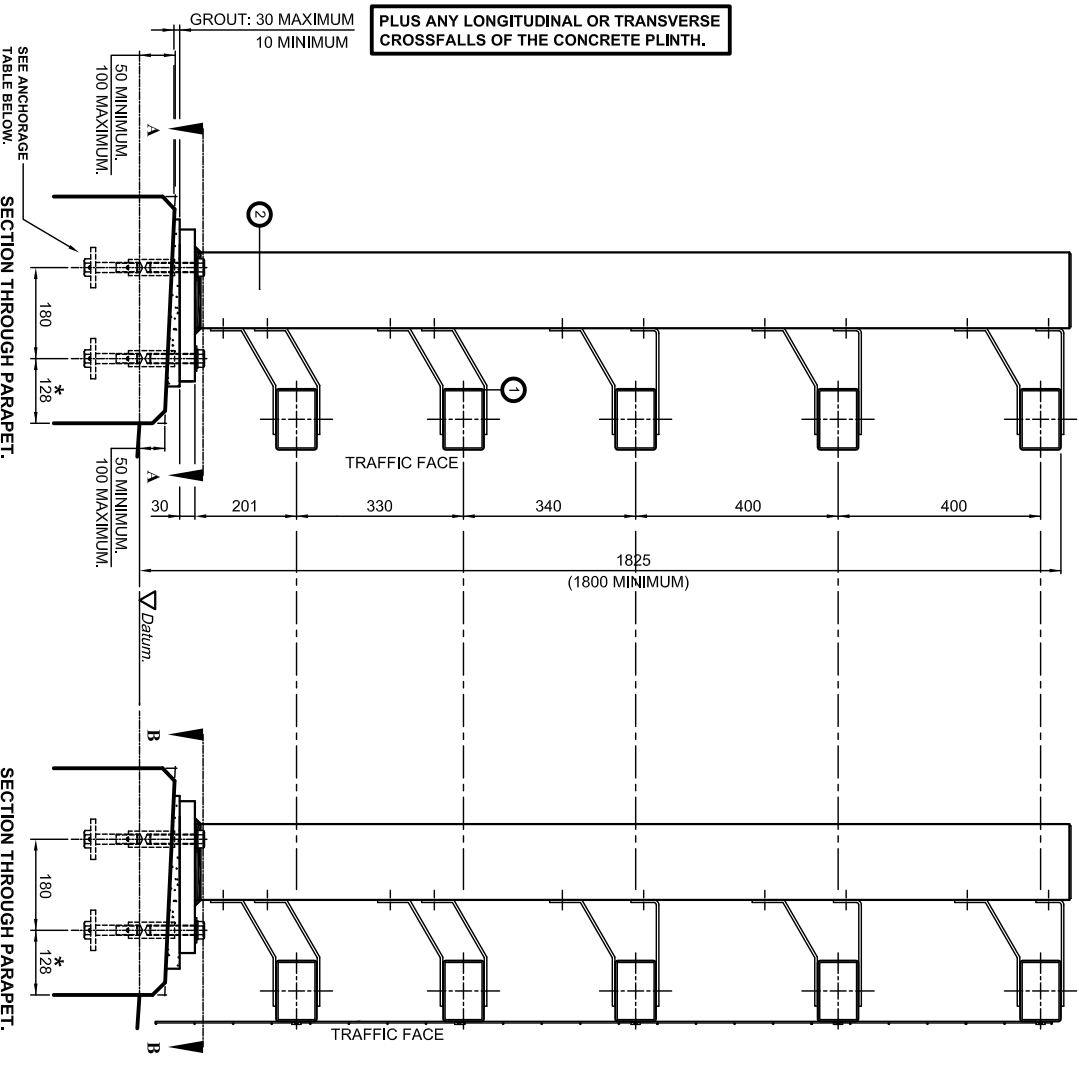
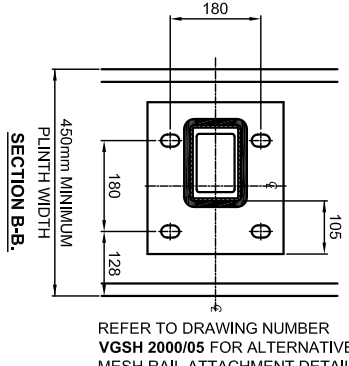
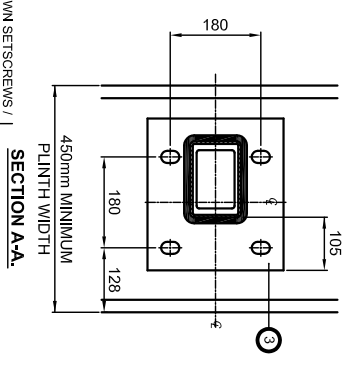


VGSH 2005.

VGSH 2006.



PLUS ANY LONGITUDINAL OR TRANSVERSE CROSSFALLS OF THE CONCRETE PLINTH.

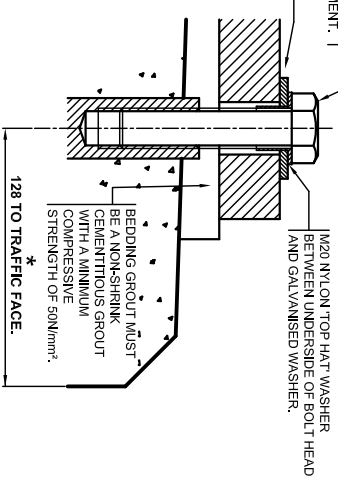


REFER TO DRAWING NUMBER VGSH 2000/05 FOR ALTERNATIVE MESH RAIL ATTACHMENT DETAIL.

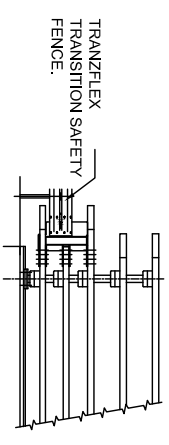
VGSH 2000 SERIES POST INFORMATION	
UNFACTORED MOMENT OF RESISTANCE OF POST (kNm) AT UNDERSIDE OF BASEPLATE.	42.245
ULTIMATE SHEAR FORCE RESISTANCE OF POST (kN)	307.44
SIZE OF HOLDING DOWN BOLTS	M20

APPROVED ANCHORAGE UNITS	
DRAWING NUMBER	VGAS/1.
	VGAS/2.
	VGAS/3.
OR OTHER APPROPRIATELY APPROVED CAST-IN OR DRILLED ANCHORAGE SYSTEM.	

ENLARGED VIEW ON HOLDING DOWN BOLT. (IMPORTANT!)

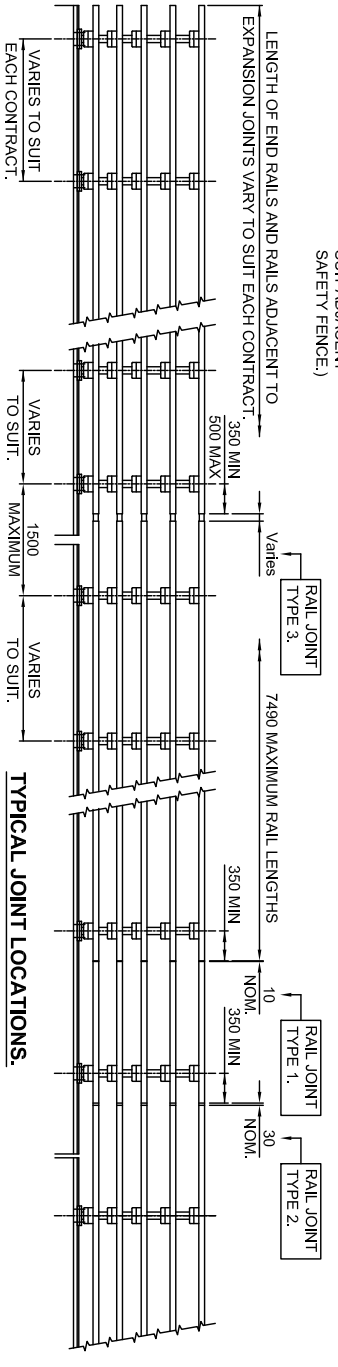
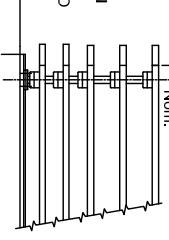


FOR SAFETY FENCE CONNECTION TO PARAPET REFER TO DRAWING NUMBER VGSH 2000/11.



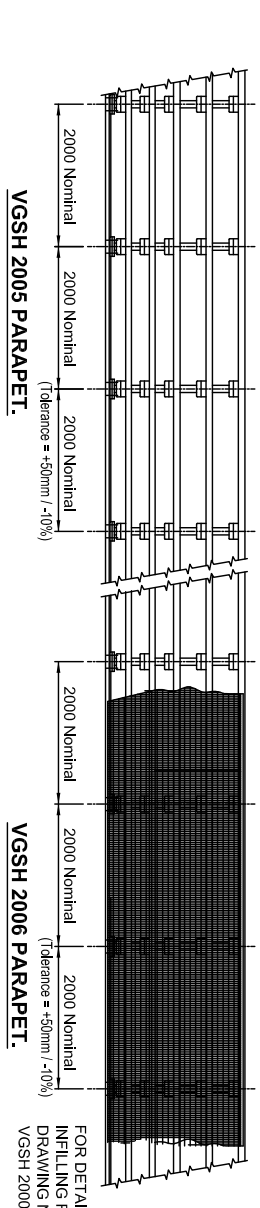
PARAPET CONNECTIONS TO SAFETY FENCE.

FOR DETAILS OF CRANKED BACK RAILS REFER TO DRAWING NUMBER VGSH 2000/04.



TYPICAL JOINT LOCATIONS.

VGSH 2000 SERIES PARAPET IS A MODULAR SYSTEM BASED ON 2,000mm POST CENTRES. REDUCTION IN POST CENTRES DOWN TO 1,450mm CENTRES CAN OCCUR ADJACENT TO NO-TENSION RAIL JOINTS TYPE 3 AND END OF PARAPET RAIL ADJACENT TO END POSTS. CLOSER POST CENTRES MAY BE USED FOR SINGLE BAYS WHERE THIS CANNOT BE AVOIDED AT MOVEMENT JOINTS AND END OF PARAPET RUNS.



VGSH 2005 PARAPET.

VGSH 2006 PARAPET.

- GENERAL NOTES:**
- 1/ ALL STEEL WELDING TO BE IN ACCORDANCE WITH BS EN 1011-1 AND BS EN 1011-2.
 - 2/ WELDERS AND WELDING PROCEDURES ARE IN ACCORDANCE WITH BS EN 287-1 AND BS EN ISO 15607 RESPECTIVELY.
 - 3/ MAIN RAILS CAN BE RADIUSED TO SUIT ON SITE DOWN TO MINIMUM RADIUS OF 75mm. TIGHTER RADIUS 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 IN EACH APPROACH END IN AN EASILY VISIBLE POSITION.

ITEM	SPECIFICATION	ITEM	SPECIFICATION
MAIN RAILS.	ALL STEEL SECTIONS ARE TO BE GALVANISED PLAIN WASHERS TO CONFORM TO BS 3392 AND BE CONFORM TO BS 3392 AND BS EN ISO 4014 GRADE A & B.	HOLDING DOWN BOLTS TO CONFORM TO BS 3392 AND BE CONFORM TO BS 3392 AND BS EN ISO 4014 GRADE A & B.	
RAIL JOINTS.	BS EN 10210-1, BS EN 10210-2, BS EN 10219-1, BS EN 10219-2, BS EN 10219-3, BS EN 10219-4, BS EN 10219-5, BS EN 10219-6, BS EN 10219-7, BS EN 10219-8, BS EN 10219-9, BS EN 10219-10, BS EN 10219-11, BS EN 10219-12, BS EN 10219-13, BS EN 10219-14, BS EN 10219-15, BS EN 10219-16, BS EN 10219-17, BS EN 10219-18, BS EN 10219-19, BS EN 10219-20, BS EN 10219-21, BS EN 10219-22, BS EN 10219-23, BS EN 10219-24, BS EN 10219-25, BS EN 10219-26, BS EN 10219-27, BS EN 10219-28, BS EN 10219-29, BS EN 10219-30, BS EN 10219-31, BS EN 10219-32, BS EN 10219-33, BS EN 10219-34, BS EN 10219-35, BS EN 10219-36, BS EN 10219-37, BS EN 10219-38, BS EN 10219-39, BS EN 10219-40, BS EN 10219-41, BS EN 10219-42, BS EN 10219-43, BS EN 10219-44, BS EN 10219-45, BS EN 10219-46, BS EN 10219-47, BS EN 10219-48, BS EN 10219-49, BS EN 10219-50, BS EN 10219-51, BS EN 10219-52, BS EN 10219-53, BS EN 10219-54, BS EN 10219-55, BS EN 10219-56, BS EN 10219-57, BS EN 10219-58, BS EN 10219-59, BS EN 10219-60, BS EN 10219-61, BS EN 10219-62, BS EN 10219-63, BS EN 10219-64, BS EN 10219-65, BS EN 10219-66, BS EN 10219-67, BS EN 10219-68, BS EN 10219-69, BS EN 10219-70, BS EN 10219-71, BS EN 10219-72, BS EN 10219-73, BS EN 10219-74, BS EN 10219-75, BS EN 10219-76, BS EN 10219-77, BS EN 10219-78, BS EN 10219-79, BS EN 10219-80, BS EN 10219-81, BS EN 10219-82, BS EN 10219-83, BS EN 10219-84, BS EN 10219-85, BS EN 10219-86, BS EN 10219-87, BS EN 10219-88, BS EN 10219-89, BS EN 10219-90, BS EN 10219-91, BS EN 10219-92, BS EN 10219-93, BS EN 10219-94, BS EN 10219-95, BS EN 10219-96, BS EN 10219-97, BS EN 10219-98, BS EN 10219-99, BS EN 10219-100.		
POST SECTION.	RAILS TO BS GRADE S275/J2H, POST SECTION TO BE GRADE S355/J2H, JOINTS AND POST TO RAIL CLEATS TO BE GRADE S275/J0 AND BASEPLATE TO BE GRADE S355/J23.	ALL NUTS TO BE GALVANISED STEEL TO CONFORM TO BS 3392 AND BS EN ISO 4032 GRADE B.	
BASEPLATE.	CLEAT TYPE 1.	WASHERS.	GALVANISED PLAIN WASHERS TO BE M20x50 o.d. x 4mm THICK AND M16 FORM 'A' CONFORMING TO BS 4320. GALVANISED SPRING WASHERS TO BE TYPE 'A' TO BS 4464.
	CLEAT TYPE 2.		

DRAWING NUMBER	TITLE
VGSH 2000 / 04.	RAIL CONNECTION DETAILS. (120x80 RAILS.)
VGSH 2000 / 05.	PARAPET POST DETAILS.
VGSH 2000 / 06.	MESHING DETAILS OPTION 1.
VGSH 2000 / 07.	MESHING DETAILS OPTION 2.
VGSH 2000 / 08.	SHEETING DETAILS.
VGSH 2000 / 09.	ANTI-ACCESS PANELLING.
VGSH 2000 / 11.	TRANSFLEX CONNECTOR DETAILS.

VGSH 2000 SERIES PARAPET PERFORMANCE.	
BS EN 1317-1 and BS EN 1317-2.	IMPACT TEST CRITERIA.
TR11 and TR51.	CONTAINMENT LEVEL.
W3. (1.0m).	WORKING WIDTH.
B.	IMPACT SEVERITY LEVEL.
0.6m.	DYNAMIC DEFLECTION.

ALL DIMENSIONS IN MM. VGSH 2000 PARAPET SYSTEMS ARE COVERED BY DESIGN RIGHTS AND PATENT PENDING.

SECTION SCHEDULE	
1	RAIL SECTION 120x80x40 RHS DIMENSIONS: TOLERANCES: GREATER THAN 1000mm. ± 2mm
2	POST SECTION 150x70x50 RHS DIMENSIONS: TOLERANCES: LESS THAN 1000mm. ± 1mm
3	BASEPLATE SECTION 300x270x30 NOTE: ALL ACCUMULATIVE TOLERANCES ARE TO BE CONTAINED WITHIN THE OVERALL TOLERANCE.
4	RAIL CLEAT TYPE 3. 40mm FLAT NOTE: ALL STANDARDS QUOTED ARE DEEMED CURRENT AT THE DATE THE DRAWING IS ISSUED FOR APPROVAL, UNLESS OTHERWISE STATED.
5	RAIL CLEAT TYPE 4. 40mm FLAT NOTE: THIS DRAWING TO BE USED ONLY WITH W/O No.

W/O No. _____

DRAWING TO BE RETURNED TO DRAWING OFFICE ON COMPLETION OF WORK.

Rev	Date	By	Description
A	04/07	dvc	Minor Revisions
B	Mar 09	dvc	Minor Revisions
C	Oct 11	dvc	Corrections

FOR DETAILS OF MESH INFILLING REFER TO DRAWING NUMBER VGSH 2000/06 & 7.

MANUFACTURING 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: 29/01/2007

DRAWN: P.G.H. CHECKED: D.V.C.

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STANDARD ARRANGEMENT DRAWINGS OF VGSH 2000 SERIES STEEL PARAPET SYSTEM.
VGSH 2005 and VGSH 2006.

DRAWING NUMBER
VGSH 2000 - 03.C.