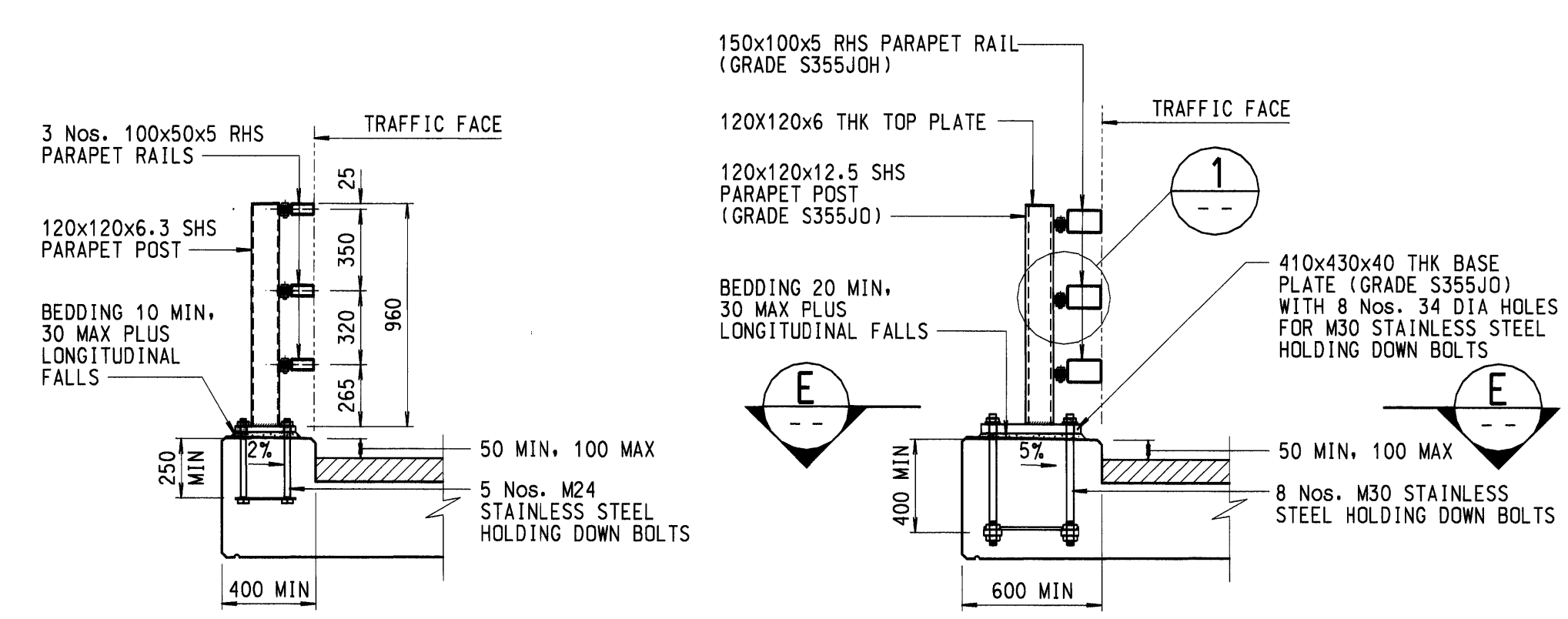


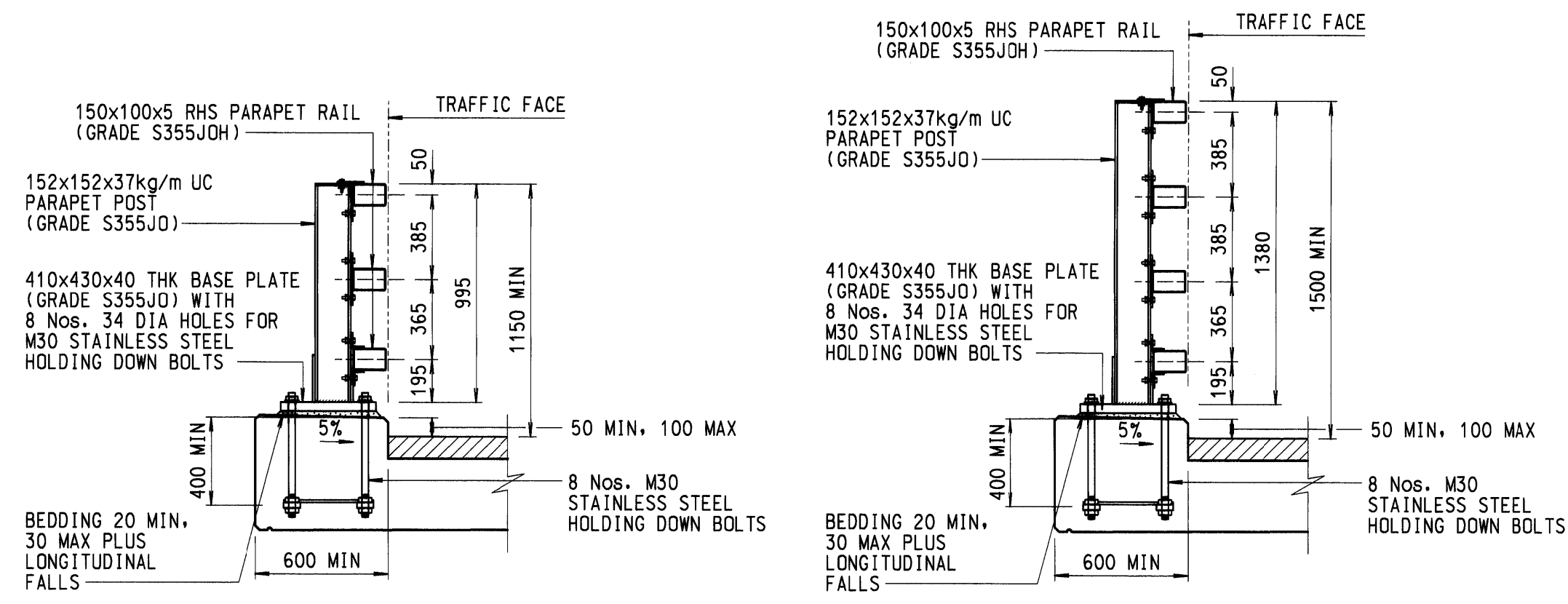
ELEVATION OF PARAPET END

SCALE 1:25



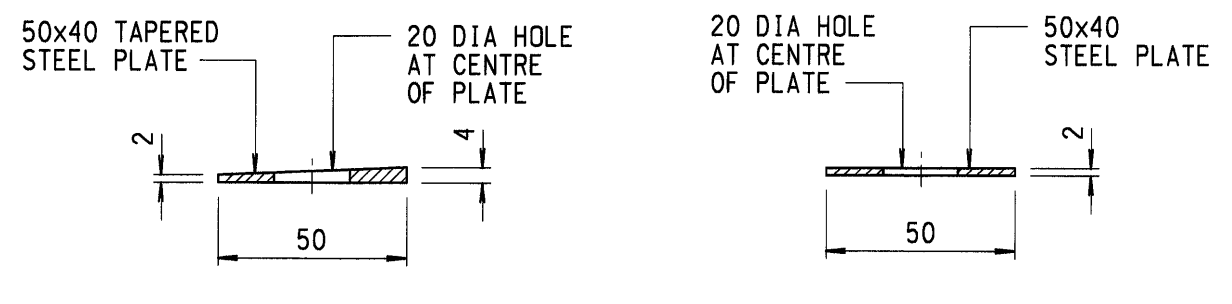
SECTION A  
SCALE 1:25

SECTION B  
SCALE 1:25



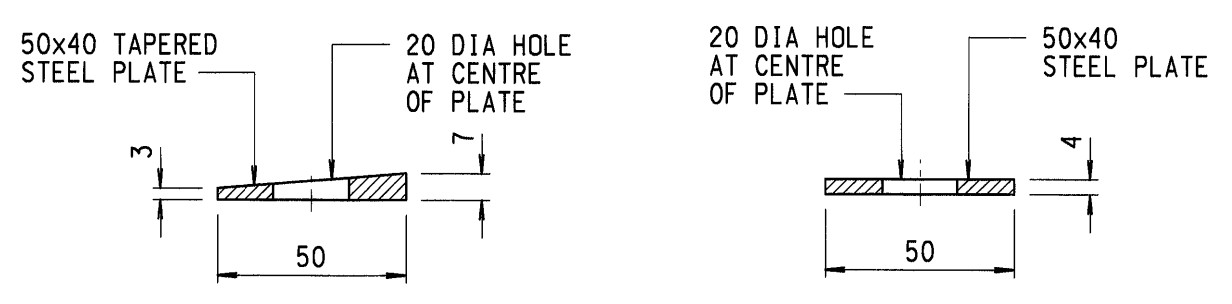
SECTION C  
SCALE 1:25

SECTION D  
SCALE 1:25



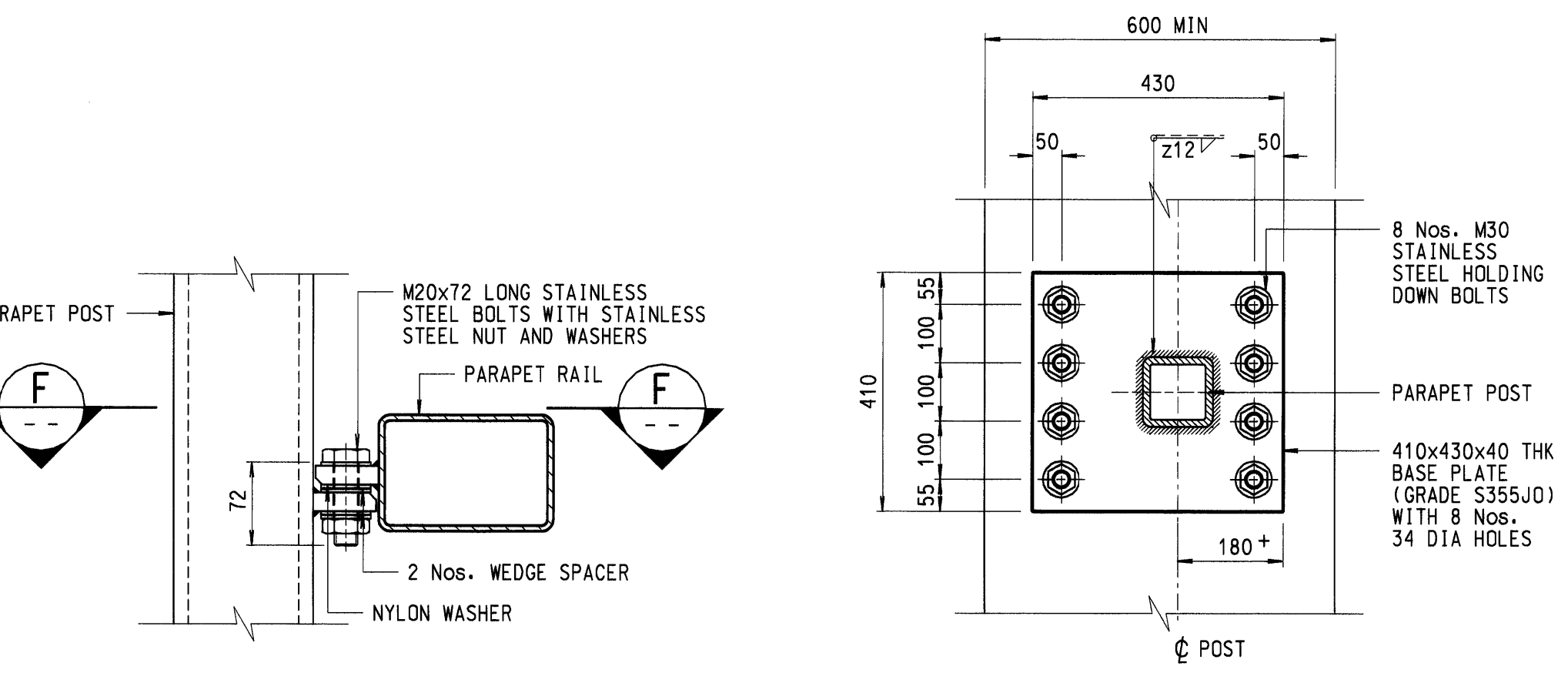
WEDGE SPACER  
SCALE 1:2

FLAT SPACER  
SCALE 1:2



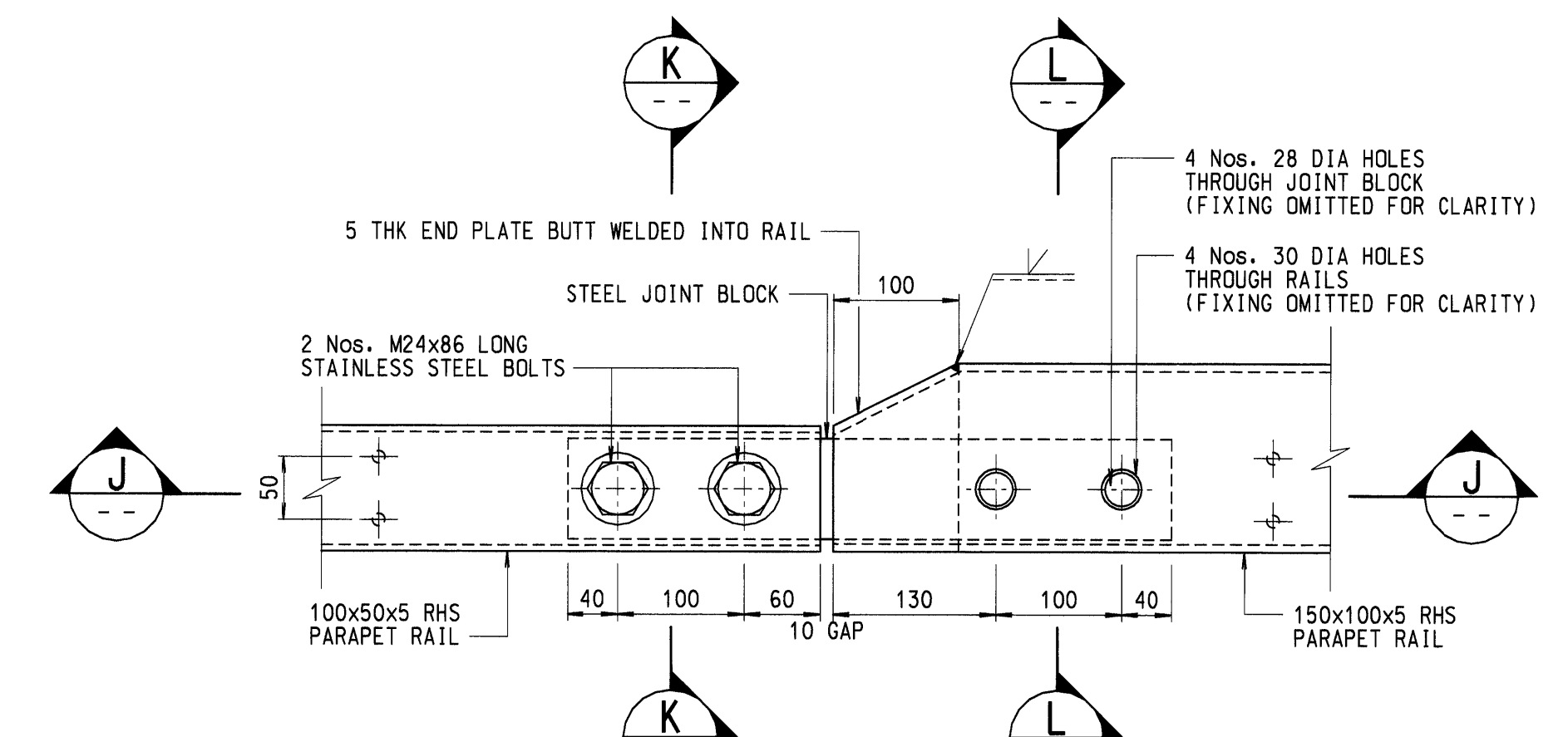
WEDGE SPACER  
SCALE 1:2

FLAT SPACER  
SCALE 1:2

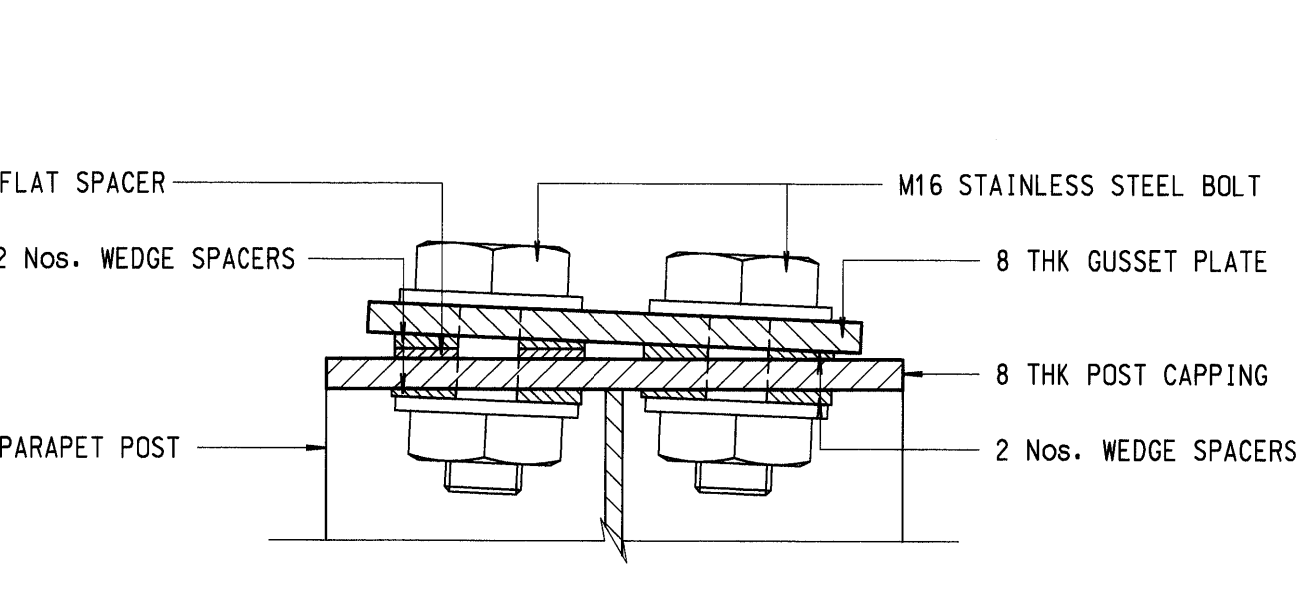


DETAIL 1  
SCALE 1:5

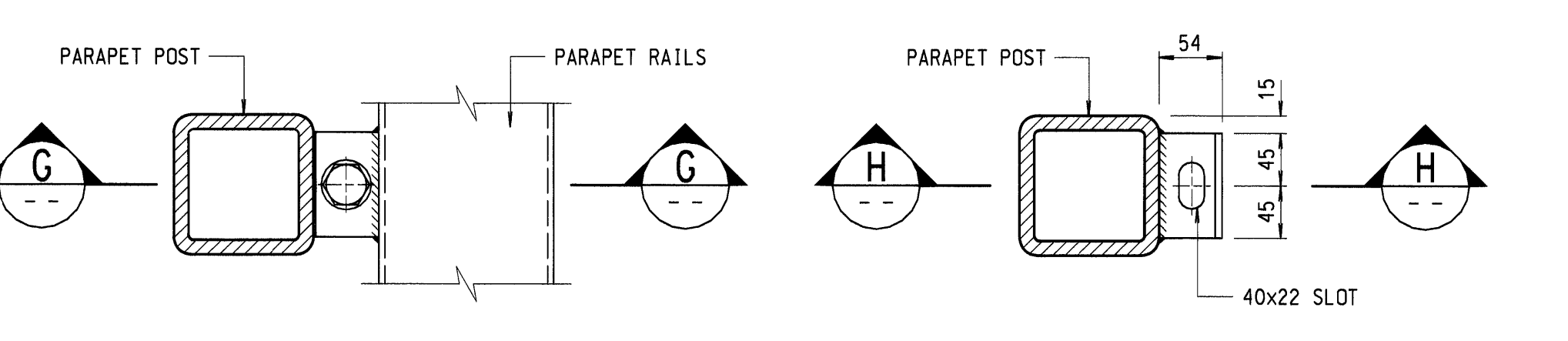
SECTION E  
SCALE 1:10



PLAN OF RAIL JOINT  
SCALE 1:5

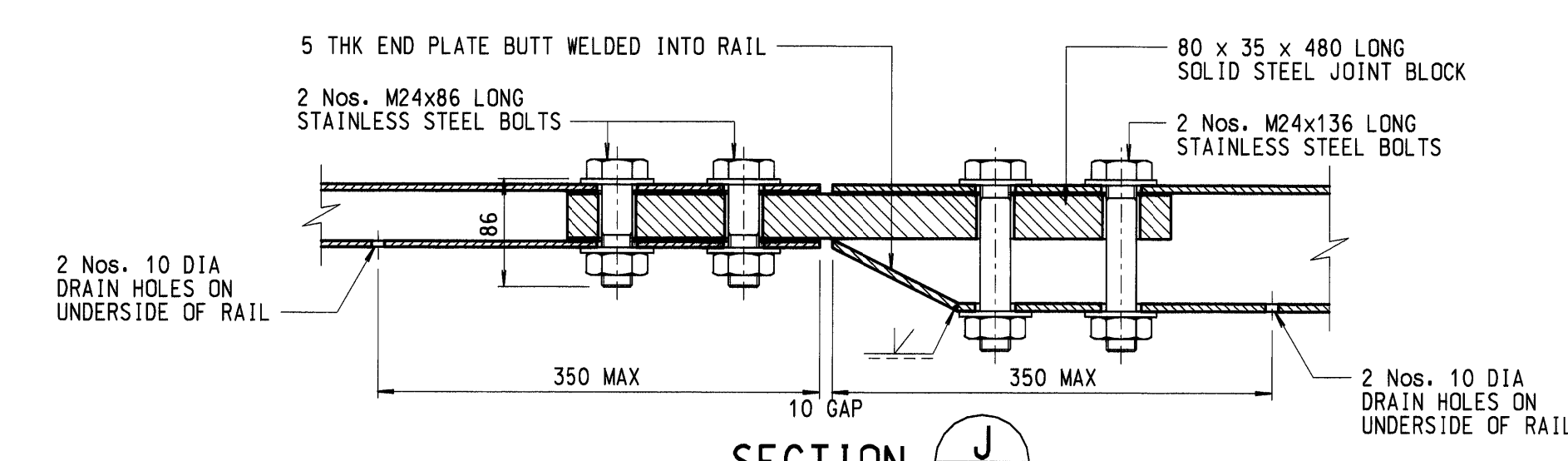


DETAIL OF SPACER FOR SLOPING RAIL  
SCALE 1:2

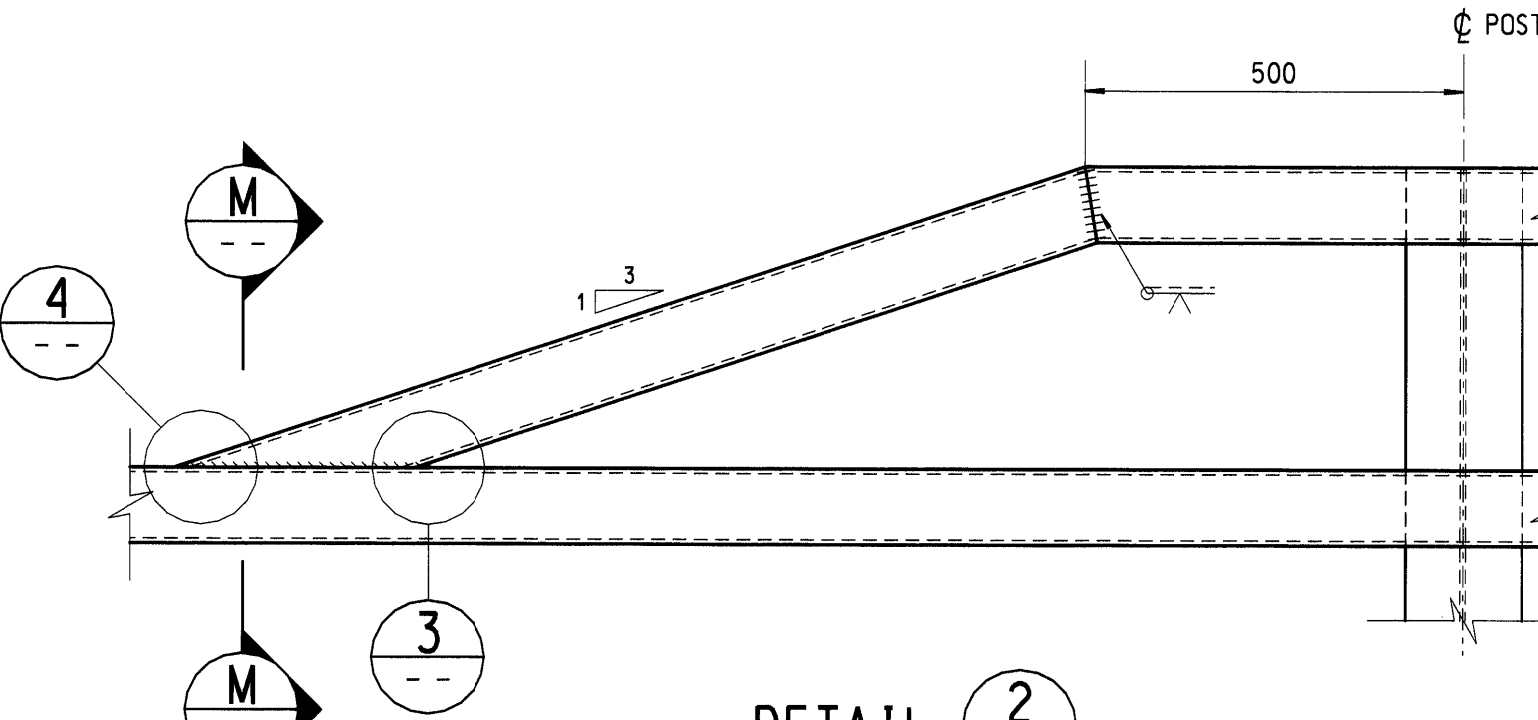


SECTION F  
SCALE 1:5

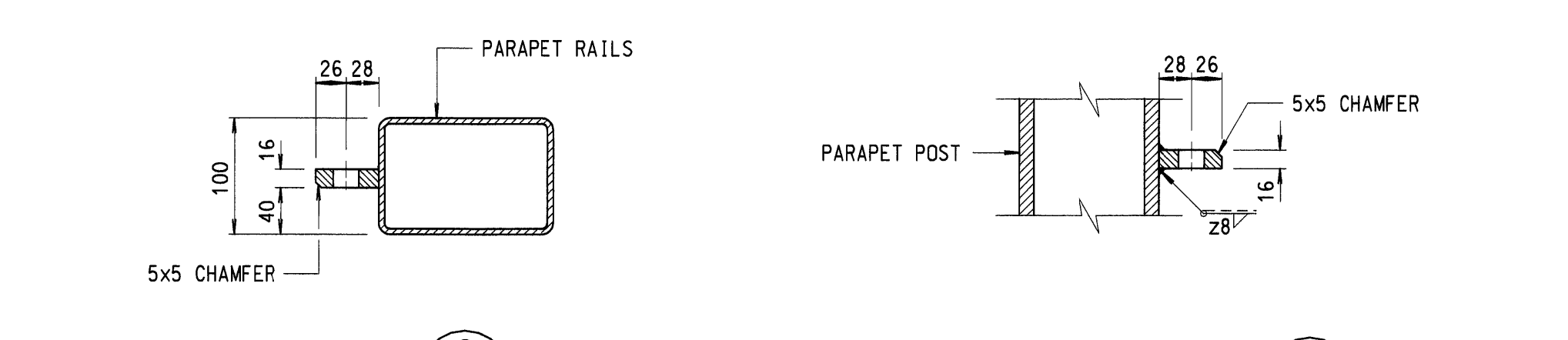
SECTION G  
SCALE 1:5



SECTION J  
SCALE 1:5

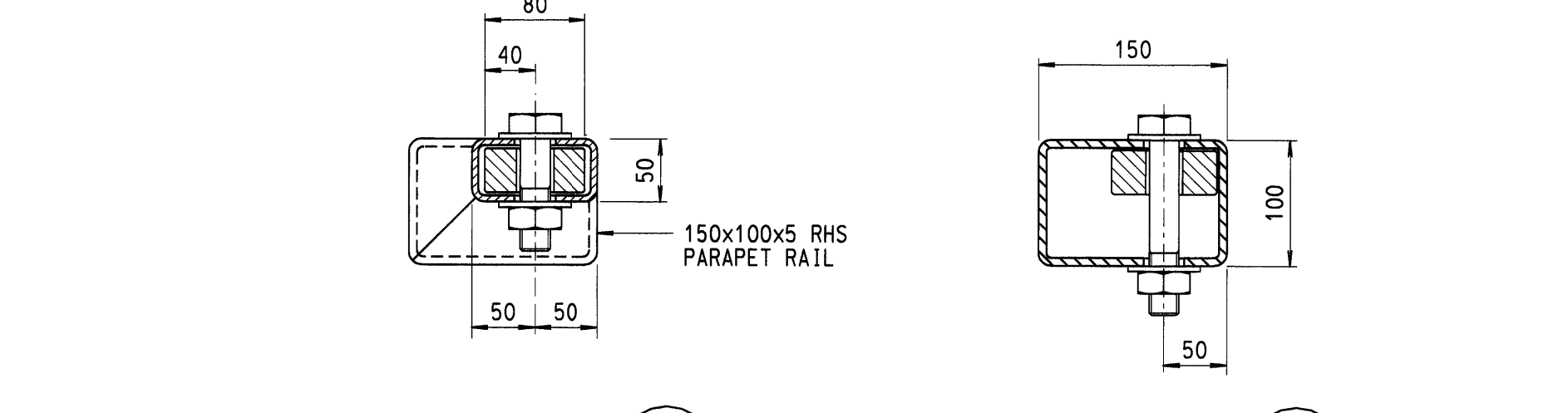


DETAIL 2  
SCALE 1:10



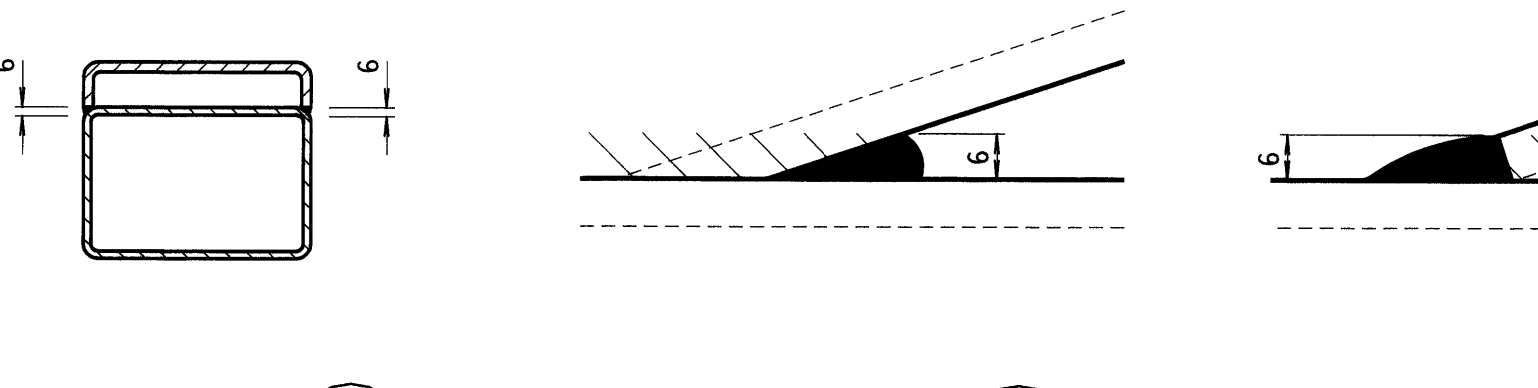
SECTION H  
SCALE 1:5

SECTION I  
SCALE 1:5



SECTION K  
SCALE 1:5

SECTION L  
SCALE 1:5



SECTION M  
SCALE 1:5

DETAIL 3  
SCALE 1:1

DETAIL 4  
SCALE 1:1

16. THE TRAFFIC FACE OF RAILS SHALL BE SET IN LINE WITH THE TOP EDGE OF PLINTH WITHIN THE FOLLOWING TOLERANCES:  
(1) UPPER RAIL ± 15mm  
(1) LOWER RAIL ± 15mm  
(+VE TOWARDS TRAFFIC; -VE AWAY FROM TRAFFIC)

17. ON SITE WELDING IS NOT PERMITTED UNLESS OTHERWISE AGREED BY THE ENGINEER.

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
  - ALL STEELWORK SHALL BE HOT ROLLED / FINISHED SECTIONS COMPLYING WITH BS4, BS EN 10056 OR BS EN 10210-2 AS APPROPRIATE.
  - STEELWORK SHALL BE GRADE S355J0 TO BS EN 10025-2 OR GRADE S355J0H TO BS EN 10210-1 OR EQUIVALENT.
  - ALL STEELWORK SHALL BE HOT DIP GALVANIZED TO BS EN ISO 1461 OR EQUIVALENT.
  - WELDING OF STEEL SHALL BE IN ACCORDANCE WITH BS EN 1011-1 AND BS EN 1011-2 AND ELECTRODES SHALL BE IN ACCORDANCE WITH BS EN 499.
  - WELDING SYMBOLS ARE IN ACCORDANCE WITH BS499.
  - WELDS ARE 6mm CONTINUOUS FILLET WELDS UNLESS OTHERWISE SPECIFIED.
  - STAINLESS STEEL BOLTS AND NUTS SHALL BE GRADE A4-80 TO BS EN ISO 3506-1 AND BS EN ISO 3506-2 WITH COMPATIBLE STAINLESS STEEL WASHERS.
  - A NYLON OR OTHER APPROVED PLASTIC WASHER SHALL BE PROVIDED AT EVERY INTERFACE BETWEEN STAINLESS STEEL AND GALVANIZED STEEL.
  - FASTENERS OTHER THAN STAINLESS STEEL MATERIALS SHALL BE CADMIUM OR ZINC ELECTROPLATED, HOT-DIP GALVANIZED, OR SHERARDIZED TO THE APPROPRIATE BRITISH STANDARDS.
  - PARAPET POSTS SHALL BE FIXED VERTICALLY AND BASE PLATES SHALL BE BOLTED DOWN TIGHTLY WITH LEVELS ADJUSTED BY STEEL SHIMS.
  - RAIL EXPANSION JOINTS SHALL BE PROVIDED AT ALL STRUCTURE MOVEMENT JOINTS.
  - PARAPET RAILS SHALL BE CONTINUOUS OVER AT LEAST TWO POSTS. MAXIMUM RAIL LENGTH SHALL BE 12000.
  - BEDDING SHALL BE CEMENT / SAND GROUT WITH MIN. COMPRESSIVE STRENGTH OF 40N/mm<sup>2</sup>.
  - AFTER FABRICATION, ALL STEELWORK SHALL BE PAINTED WITH THE FOLLOWING PAINT SYSTEM:  
LIFE TO FIRST MAINTENANCE : 5 - 15 YEARS.  
MEDIUM DURABILITY AS DEFINED IN BS EN ISO 12944 PART 5.  
PRETREATMENT : TWO-PACK ETCH PRIMER.  
PRIMER : CHLORINATED RUBBER ZINC PHOSPHATE  
PRIMER : 70µm MINIMUM TOTAL DRY-FILM THICKNESS.  
UNDERCOAT : MICAACEOUS IRON OXIDE CHLORINATED RUBBER UNDERCOAT : 100µm MINIMUM TOTAL DRY-FILM THICKNESS.  
FINISH : CHLORINATED RUBBER FINISH COAT THAT IS RESISTANT TO FISH OIL AND OTHER ANIMAL AND VEGETABLE OILS : 60µm MINIMUM TOTAL DRY-FILM THICKNESS.

no.	date	description	initial
REVISION			
designed		K.W. MO	06/07
drawn		W.Y. NG	07/07
senior technical officer		S.F. CHAN	07/07
project engineer		K.W. MO	08/07
senior engineer		C.K. CHAN	08/07

approved  
*Lee P.K. Lee* 9/8/07  
 P. K. LEE  
 Chief Highway Engineer

contract no.  
 file no.  
 project no.  
 contract

drawing title  
**L3 4-RAIL STEEL PARAPET (TYPE PDN) PARAPET END**

drawing no. **SSD165** scale **AS SHOWN**

office **BRIDGES AND STRUCTURES DIVISION** 結構橋樑部  
**HONG KONG DEPARTMENT OF HIGHWAYS** 香港路政署