



16. AFTER FABRICATION, ALL STEELWORK SHALL BE PAINTED WITH THE FOLLOWING PAINT SYSTEM:  
LIFE TO FIRST MAINTENANCE : 5 - 10 YEARS.  
PRETREATMENT : TWO-PACK ETCH PRIMER; OR BRITISH RAIL "T-WASH" AS SPECIFIED IN BS 5493, SECTION 2, CLAUSE 11.3.2.  
PRIMER : CHLORINATED RUBBER ZINC PHOSPHATE PRIMER, 70 um MINIMUM TOTAL DRY-FILM THICKNESS.  
UNDERCOAT : MICACEOUS IRON OXIDE CHLORINATED RUBBER UNDERCOAT, 100 um MINIMUM TOTAL DRY-FILM THICKNESS.  
FINISH : CHLORINATED RUBBER FINISH COAT THAT IS RESISTANT TO FISH OIL AND OTHER ANIMAL AND VEGETABLE OILS, 60 um MINIMUM TOTAL DRY-FILM THICKNESS.  
17. THE TRAFFIC FACE OF RAILS SHALL BE SET IN LINE WITH THE TOP EDGE OF CONCRETE PARAPET.

- NOTES:
- ALL DIMENSIONS ARE GIVEN IN MILLIMETRES.
  - ALL STEELWORK SHALL BE HOT ROLLED OR COLD FORMED SECTIONS COMPLYING WITH BS4, BSEN10210-2 OR BSEN10219-2 AS APPROPRIATE.
  - STEEL HOLLOW SECTIONS SHALL BE GRADE S275J2H TO BSEN10210-1 OR BSEN10219-1 OR EQUIVALENT.
  - ALL STEELWORK SHALL BE HOT DIP GALVANIZED TO BSEN10240 OR EQUIVALENT.
  - WELDING OF STEEL SHALL BE IN ACCORDANCE WITH BSEN1011-1 AND BSEN1011-2 AND ELECTRODES SHALL BE IN ACCORDANCE WITH BSEN499.
  - WELDING SYMBOLS ARE IN ACCORDANCE WITH BS499.
  - WELDS ARE 6mm CONTINUOUS FILLET WELDS UNLESS OTHERWISE SPECIFIED.
  - STAINLESS STEEL HOLDING DOWN BOLTS AND NUTS SHALL BE GRADE A4-80 TO BSEN1503506-1 AND BSEN1503506-2 WITH COMPATIBLE STAINLESS STEEL WASHERS, GRADE A2-70 MAY BE USED IN NON-MARINE ENVIRONMENT WHERE SPECIFIED IN THE CONTRACT.
  - STAINLESS STEEL BOLTS AND NUTS USED AT THE RAIL BOLTED JOINTS SHALL BE GRADE A2-70 TO BSEN1503506-1 AND BSEN1503506-2 WITH COMPATIBLE STAINLESS STEEL WASHER.
  - 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 SHERARDISED 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 PRIOR TO GROUTING.
  - 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 12 METRES. MAXIMUM POST SPACING SHALL BE 3 METRES.
  - BEDDING SHALL BE CEMENT / SAND GROUT WITH MIN. COMPRESSIVE STRENGTH OF 40N/mm<sup>2</sup>.

| no.                      | date      | description | initial   |
|--------------------------|-----------|-------------|-----------|
| REVISION                 |           |             |           |
|                          |           | name        | signature |
| designed                 | M.H. TAM  |             | SIGNED    |
| drawn                    | H.C. YU   |             | SIGNED    |
| senior technical officer | P.S. CHAN |             | SIGNED    |
| project engineer         | M.H. TAM  |             | SIGNED    |
| senior engineer          | W.C. CHAN |             | SIGNED    |

approved  
SIGNED  
R.K.W. WONG  
Chief Highway Engineer  
SEP 2002  
date

contract no.  
file no.  
project no.  
contract

drawing title  
STEEL TOP RAIL FOR CONCRETE VEHICLE PARAPET

drawing no. SSD 143  
scale AS SHOWN

office STRUCTURES DIVISION  
結 構 部

HIGHWAYS DEPARTMENT  
路 政 署  
HONG KONG 香 港