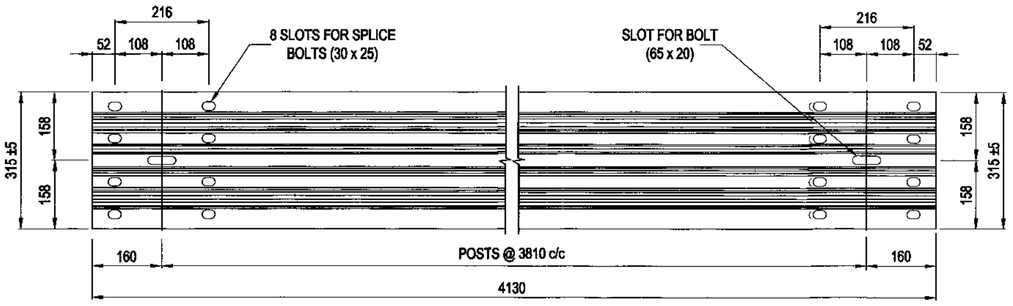
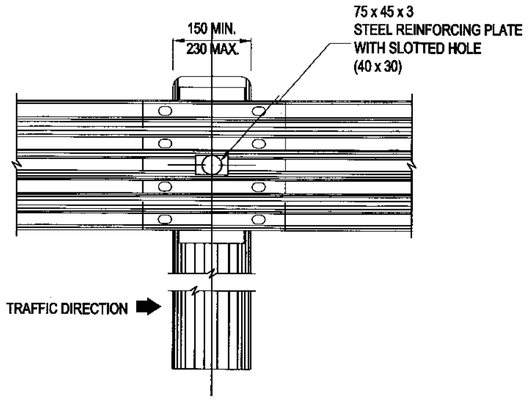
UNDER REVISION



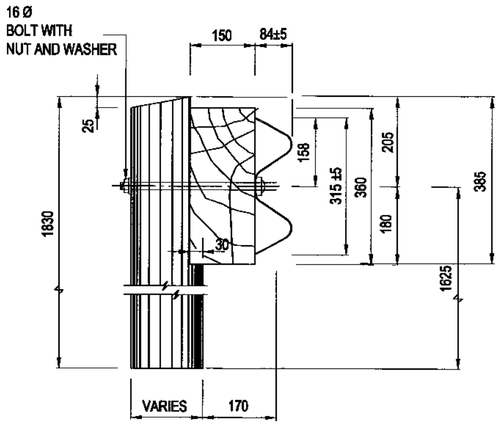
TYPICAL GUARDRAIL SECTION

SCALE: 1 : 10



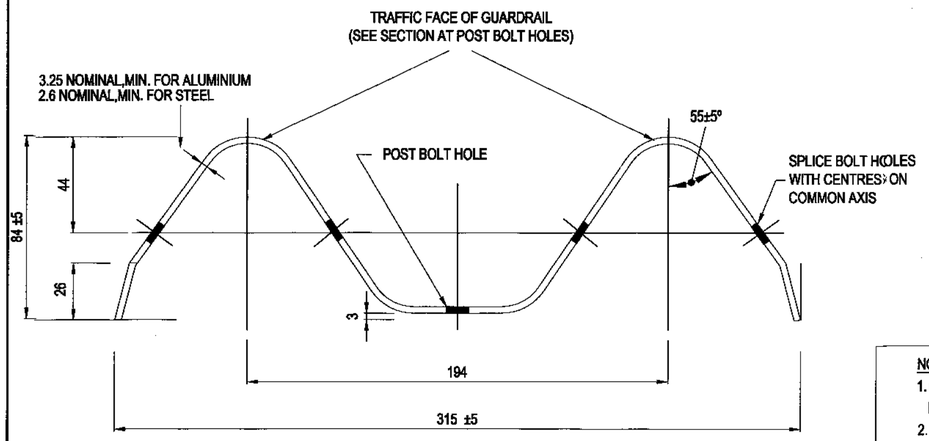
DETAIL A : FRONT ELEVATION NORMAL SPACING OF POSTS

SCALE: 1 : 10



ELEVATION OF GUARDRAIL

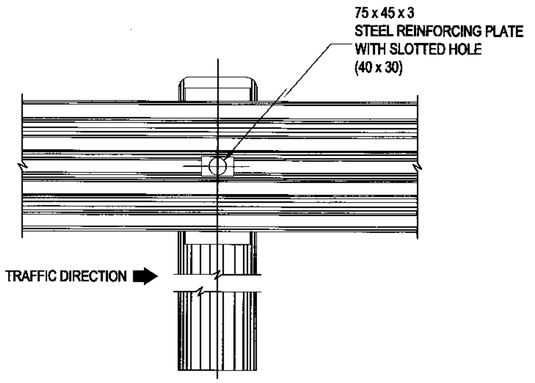
SCALE: 1 : 10



SECTION THROUGH GUARDRAIL

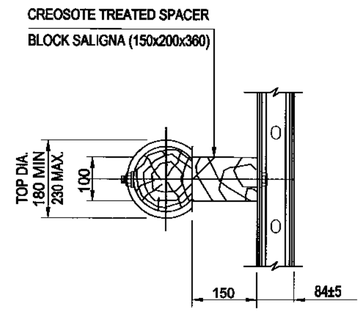
SCALE: 1 : 2

NOTE:
1. GUARDRAILS SHALL ONLY BE PLACED WHERE REQUIRED BY THE ENGINEER.
2. ALL GUARDRAILS MUST BE GALVANIZED AS SPECIFIED (NOT PAINTED).



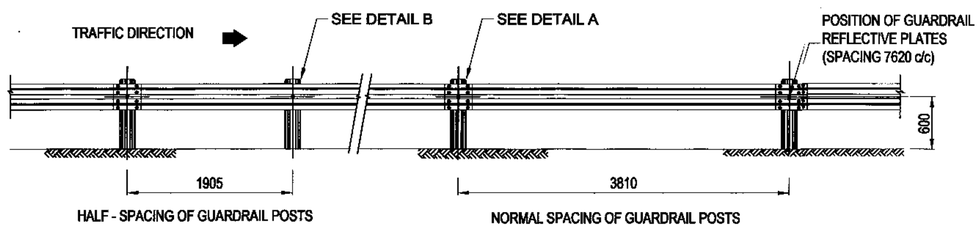
DETAIL B : FRONT ELEVATION HALF SPACING OF POSTS

SCALE: 1 : 10



PLAN

SCALE: 1 : 10



SPACING OF POSTS AND POSITION OF REFLECTIVE PLATES

SCALE: 1 : 50

SPECIFICATIONS

1.BOLT:
HIGH TENSILE STEEL 16 Ø

2.WASHERS:
3mm THICK

3.SPACER BLOCK:
PINE OR GUM, PRESSURE IMPREGNATED IN ACCORDANCE WITH SANS 100005 WITH CREOSOTE WHICH COMPLIES WITH SANS 5538 OR 539

4.POSTS:
180 Ø MIN - 230 Ø MAX, SALIGNA (BLUEGUM), PRESSURE IMPREGNATED IN ACCORDANCE WITH SANS 100005 WITH CREOSOTE WHICH COMPLIES WITH SANS 538 OR SANS 539.

5.GALVANIZING:
GUARDRAILS:(SANS 121/ISO 1461):TYPE A1 ARTICLES.
BOLTS AND WASHERS: (SANS 121/ISO 1461) TYPE C1 ARTICLES.

6.TIMBER POSTS:
POSTS SHALL COMPLY WITH THE REQUIREMENTS OF SANS 457 AND SHALL CARRY THE SANS MARK.

7.REFLECTIVE PLATES:
THE OUTER SURFACES SHALL BE COATED WITH ENGINEERING GRADE RETRO-REFLECTIVE MATERIAL WHICH COMPLIES WITH THE PROVISIONS OF CKS 191 IN THE COLOURS SHOWN ON DRAWING TD-R-GR-002

FOR LATEST VERSION CHECK www.nra.co.za

No.	DATE	VERSION / REVISION	APPROVED
V1	SEPT 2014	ORIGINAL VERSION	

SANRAL TYPICAL DRAWINGS

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APPROVED

DATE: 2015/06/26

TYPICAL DRAWINGS - ROADWORKS

GUARDRAILS
GUARDRAIL ELEMENT AND MOUNTING DETAILS
SHEET 1 0F 2

SANRAL DOC. No. (PDF)	1693626
SANRAL DOC. No. (DWG)	1797472
SANRAL DRAWING No.	TD-R-GR-1001-V1