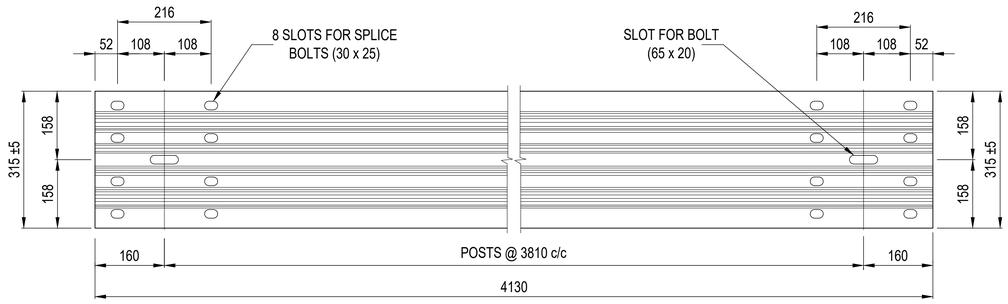
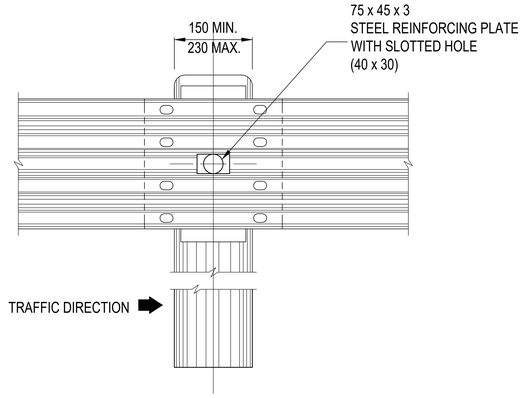


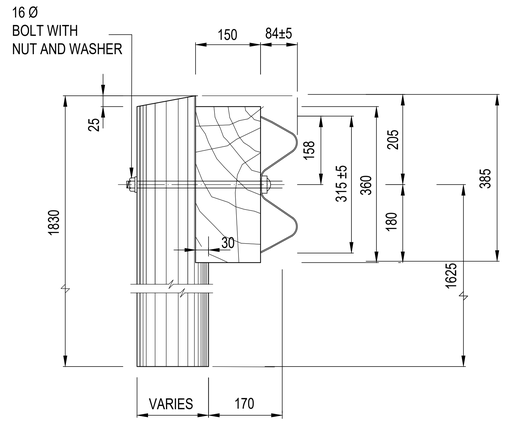
TYPICAL GUARDRAIL SECTION

SCALE: 1 : 5



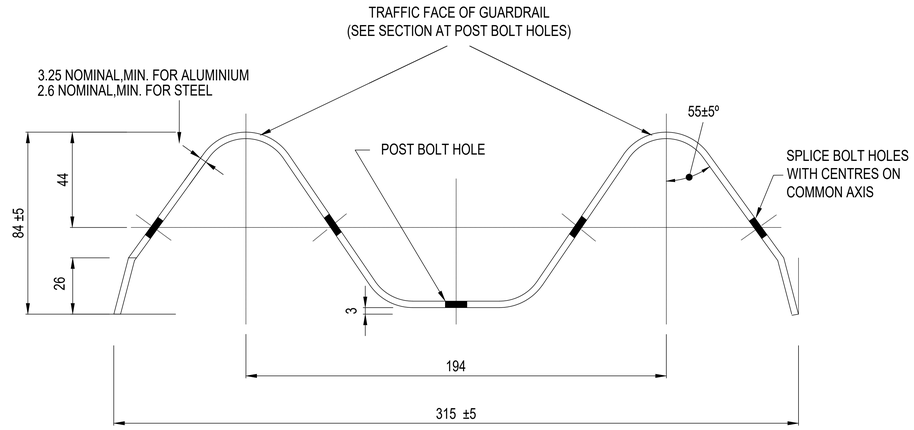
DETAIL A : FRONT ELEVATION NORMAL SPACING OF POSTS

SCALE: 1 : 5



ELEVATION OF GUARDRAIL

SCALE: 1 : 5

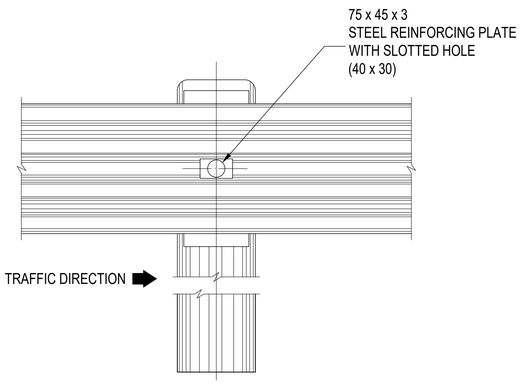


SECTION THROUGH GUARDRAIL

SCALE: 1 : 1

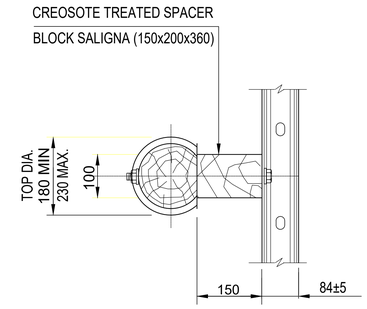
NOTE:

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



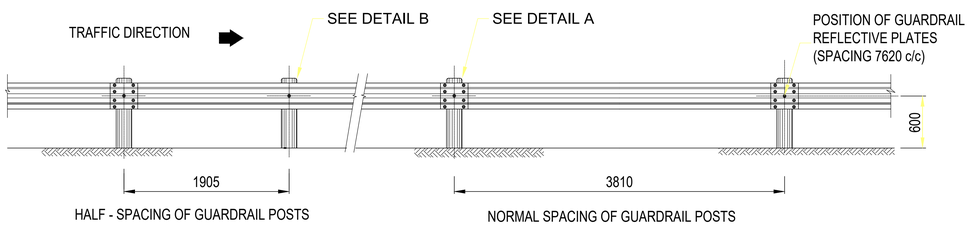
DETAIL B : FRONT ELEVATION HALF SPACING OF POSTS

SCALE: 1 : 5



PLAN

SCALE: 1 : 5



SPACING OF POSTS AND POSITION OF REFLECTIVE PLATES

SCALE: 1 : 25

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 538 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

No.	DATE	REVISION
V1	08/03/2024	ORIGINAL VERSION

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SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

WESTERN REGION
1 Havenga Street
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Tel: (021) 957 4600

ACCEPTANCE

THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING

for the SA NATIONAL ROADS AGENCY SOC LTD.

Date:

PROJECT DESCRIPTION

THE CAPACITY IMPROVEMENT OF NATIONAL ROUTE 1 SECTION 1 FROM OLD OAK INTERCHANGE (KM 18.90) TO KOELENHOF INTERCHANGE (KM 33.00)

GUARDRAILS
GUARDRAIL ELEMENT AND MOUNTING DETAILS
SHEET 1 0F 2

SCALE @ A0: AS SHOWN | SHEET 1 OF 2

PROJECT NUMBER	N001-010-2021/1	
DRAWING LOCATION DATA	START	END
ROUTE	N01	N01
SECTION	01	01
DRAWING km DISTANCE	18.900	33.000
DRAWING TYPE	ROADS - GUARDRAILS	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	312-00827-01-TD23	VER
SANRAL DOCUMENT #	XXXXXX	V1

312-00827-01-TD23