



GUARDRAILS

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HIGHWAY GUARDRAIL PRODUCT FEATURES & APPLICATION

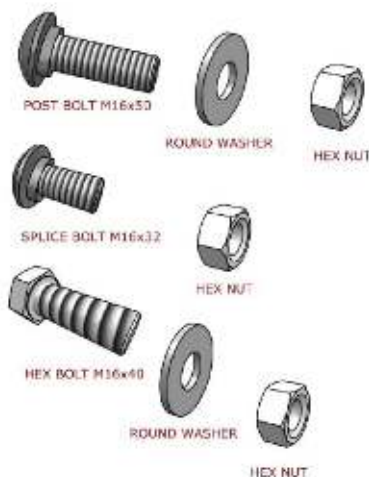
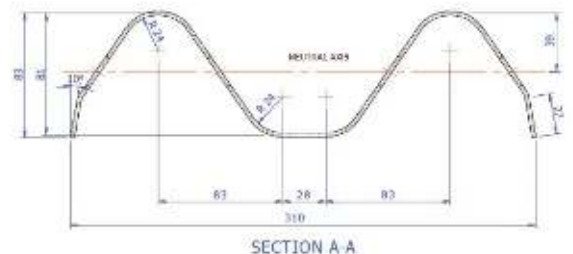
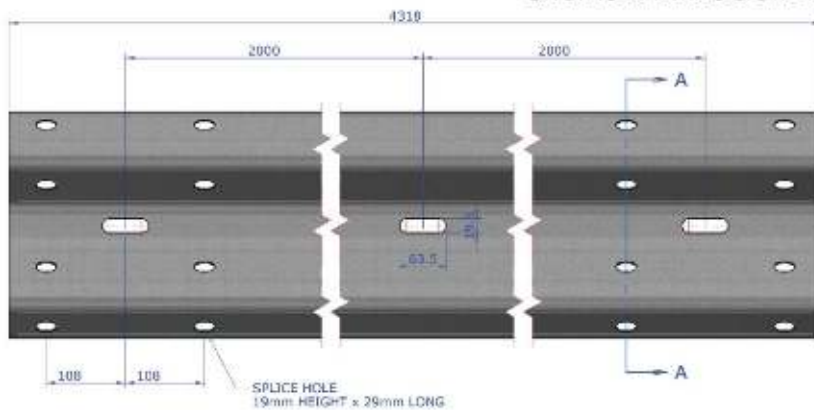
- * To Provide Railing Protection To Motor Vehicle At Dangerous Road Area Such As
 - Steep Slope
 - High Embankment
 - Obscure Curve/Bend
 - Sharp Corner
- * To Absorb Sudden Impact During Collision Thus Minimise Injury To Vehicle And Passenger.
- * To Act As A Directional Railing For Vehicle Moving In The Right Direction.
- * To Act As A Median Barrier For Avoiding Head On Collision.
- * To Act As A Protective Barrier For Pedestrian Along The High Way.

SPECIFICATION AND TECHNICAL DATA

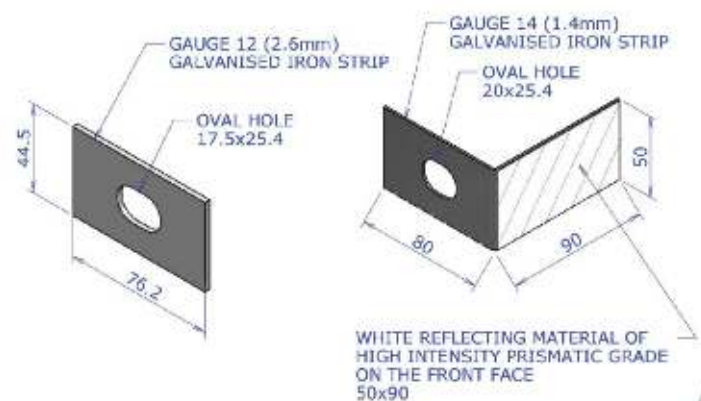
1. Base Metal specification to AASHTO M 180-89
 - Minimum Yield Strength : 345 N/mm²
 - Minimum Tensile Strength : 483 N/mm²
 - Minimum Elongation : 15%
2. Galvanising specification comply to AASHTO M 180-89
 - 1100g/m² minimum single spot test (for both sides)
 - 1220g/m² triple spot test (for both sides)
3. Dimension according to AASHTO M 180-89

TYPE	EFFECTIVE LENGTH (mm)	OVERALL LENGTH (mm)	NOMINAL UNCOATED THICKNESS (mm)
NGR 1	3810	4128	2.67
NGR 2	4000	4318	2.67
NGR 3	3810	4128	3.00
NGR 4	4000	4318	3.00

SECTION THROUGH BEAM



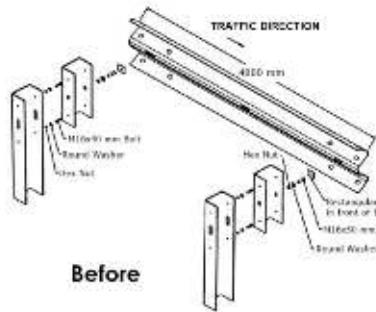
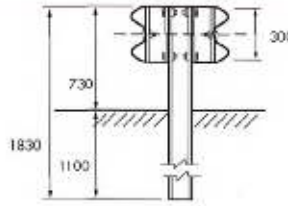
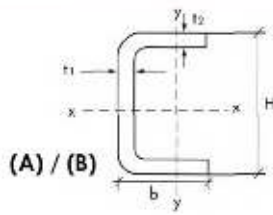
SPLICE BOLT & NUT



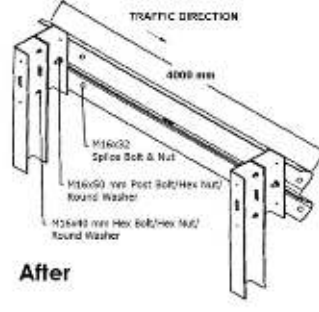
DELINEATOR STRIP

NOTE : All dimension are subject to manufacturer's design tolerance.
All dimension are in millimetre.

NICOL GUARD RAIL POST



Before



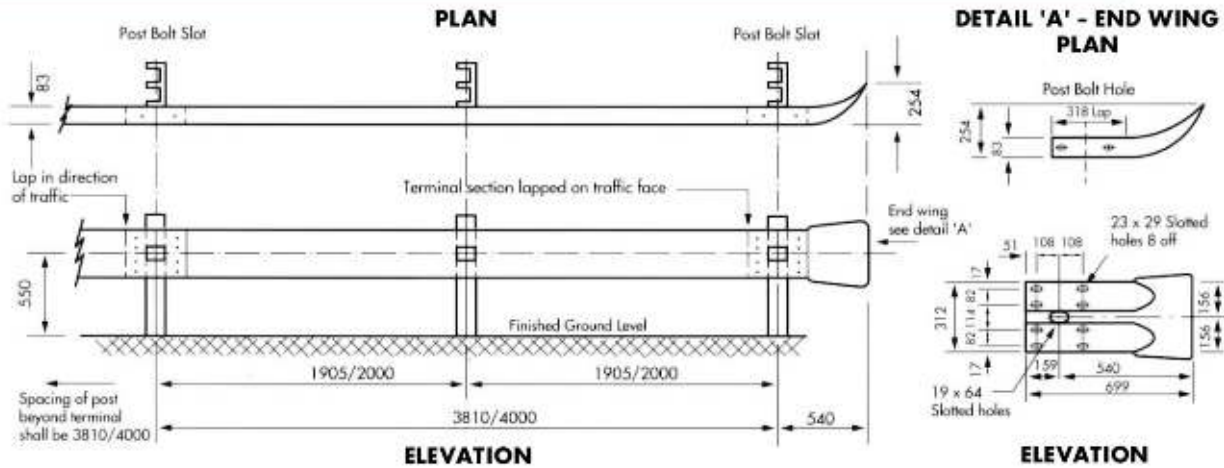
After



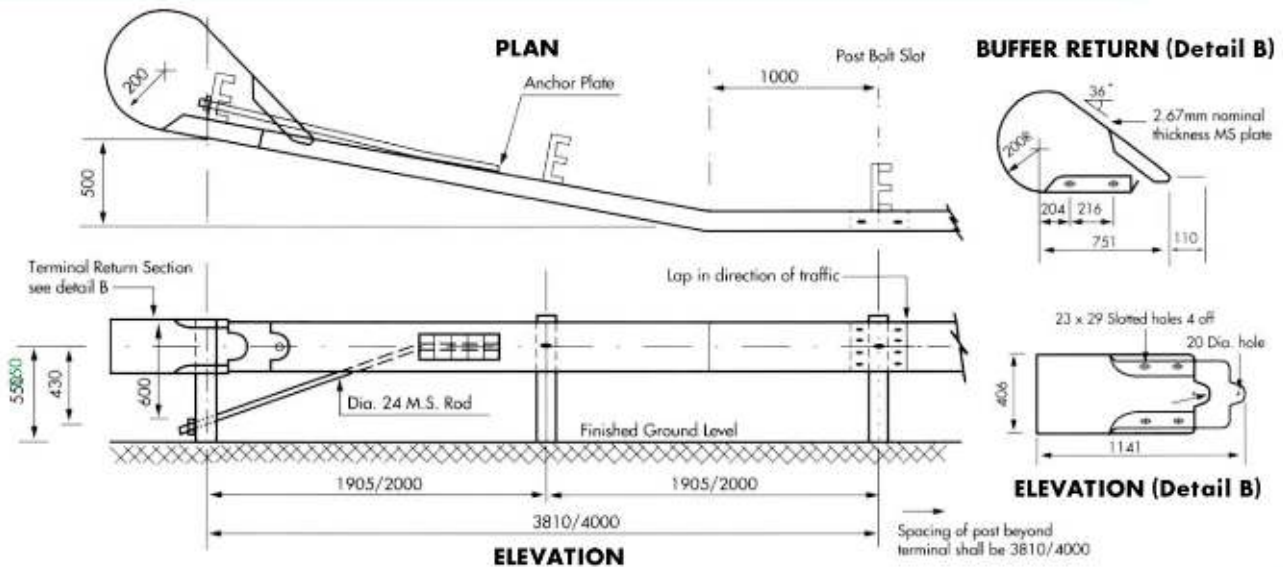
TYPE	H x b x t1 x t2 (mm)	Unit Weight (kg/m)
A	C178 x 76 x 6	14.3
B	C150 x 76 x 6	13.4

Total length : 1830 mm, subject to customer request.

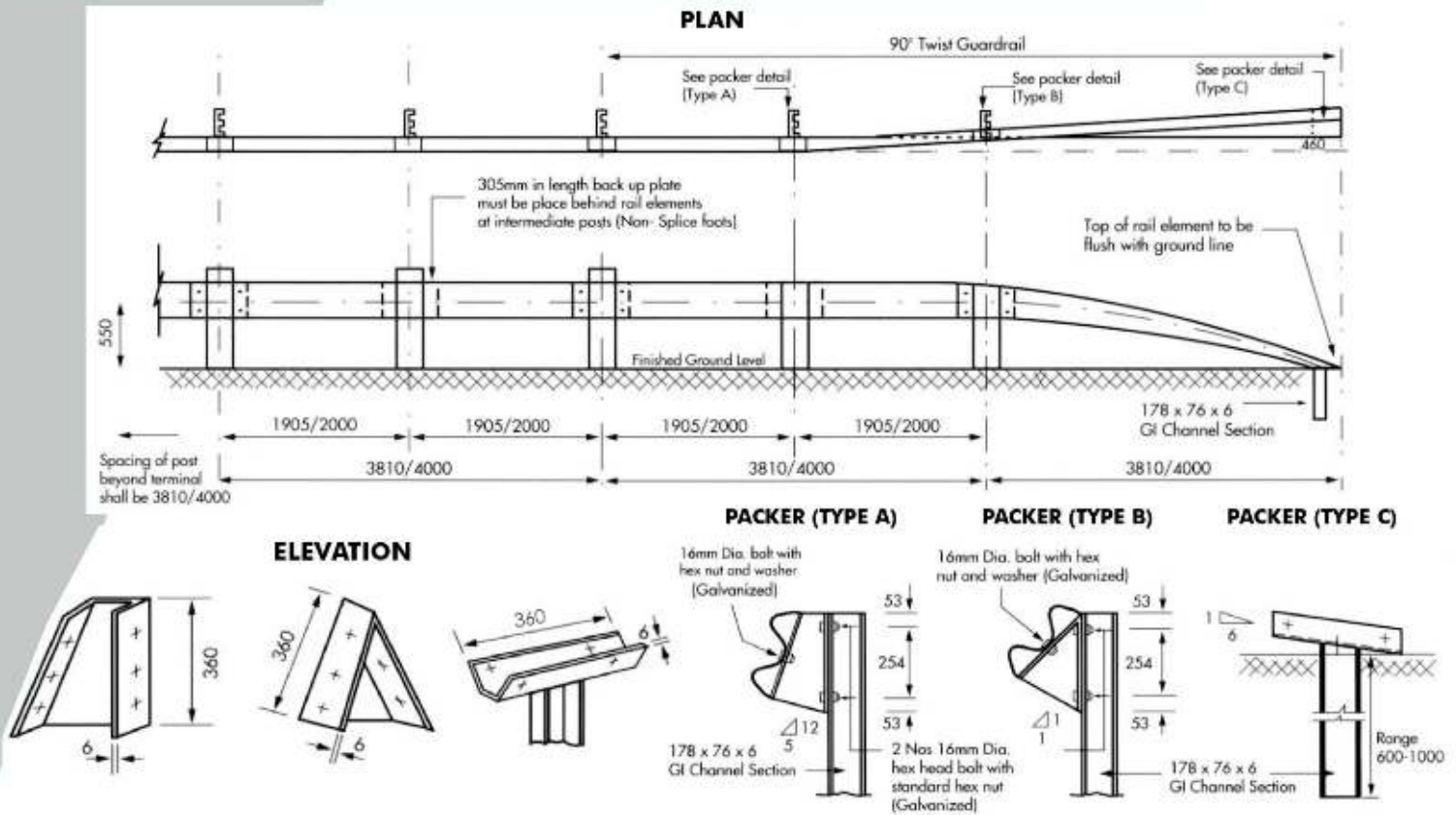
TERMINAL UNIT (TYPE 1)



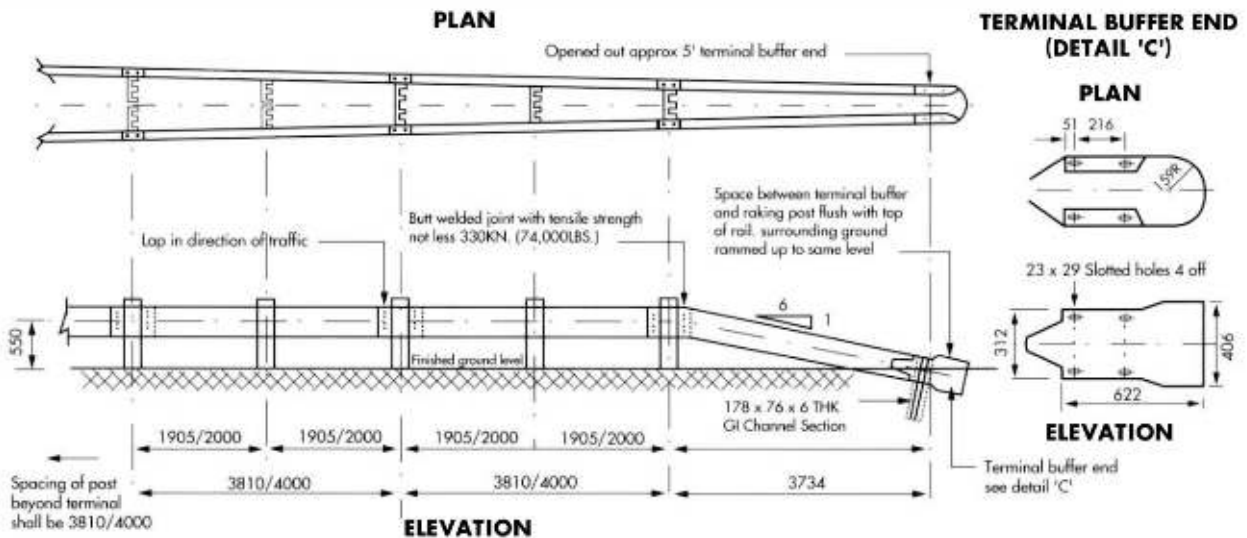
TERMINAL ANCHORAGE UNIT OR FLARE END (TYPE 2)



90° TWIST TERMINAL ANCHORAGE UNIT (TYPE 3)



TERMINAL SECTION 1:6 (TYPE 4)



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