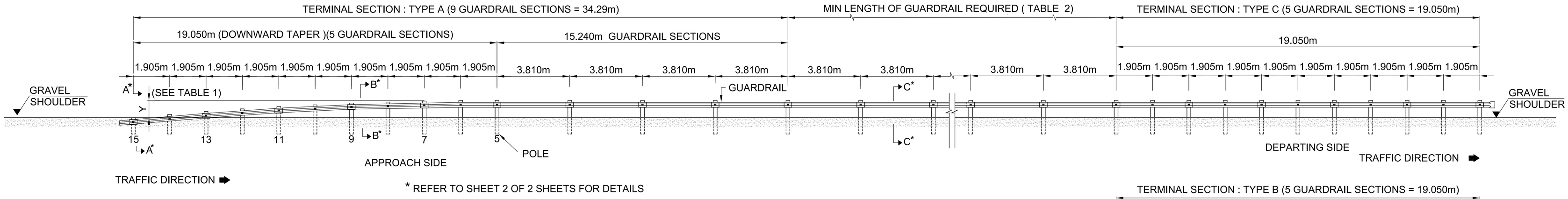
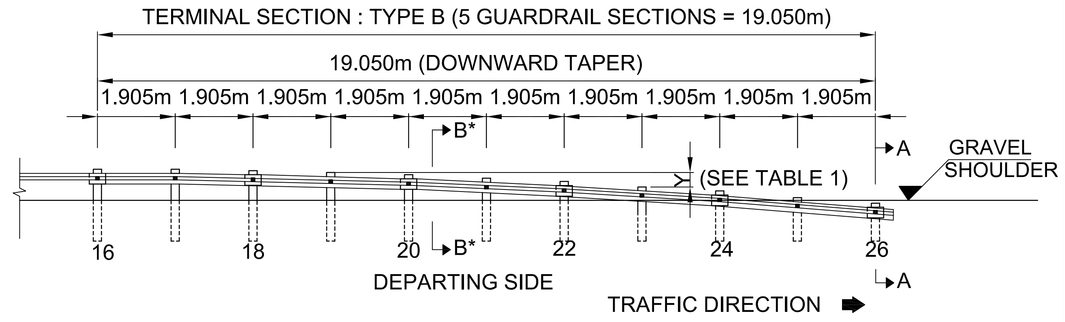
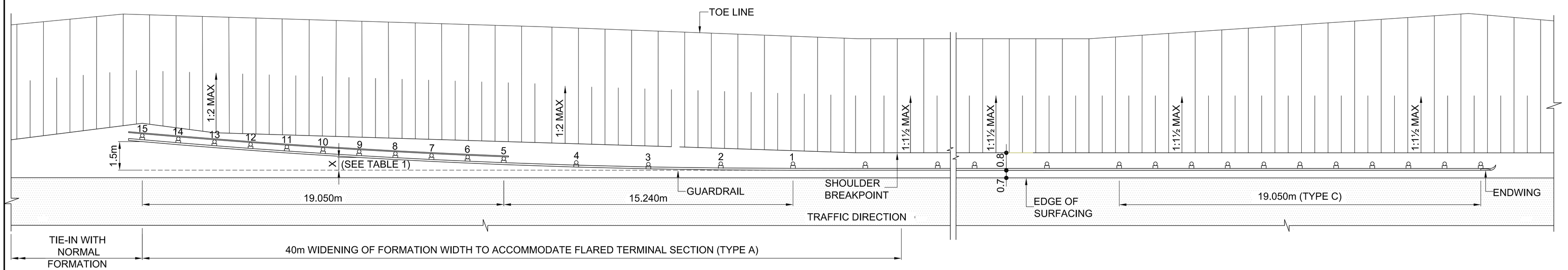
GUARDRAILS-DETAIL OF TERMINAL SECTIONS
(SHEET 1 OF 2 SHEETS)



FRONT ELEVATION





PLAN DETAIL OF TERMINAL SECTIONS AT APPROACH AND DEPARTING SIDES (*)

SCALE 1:75

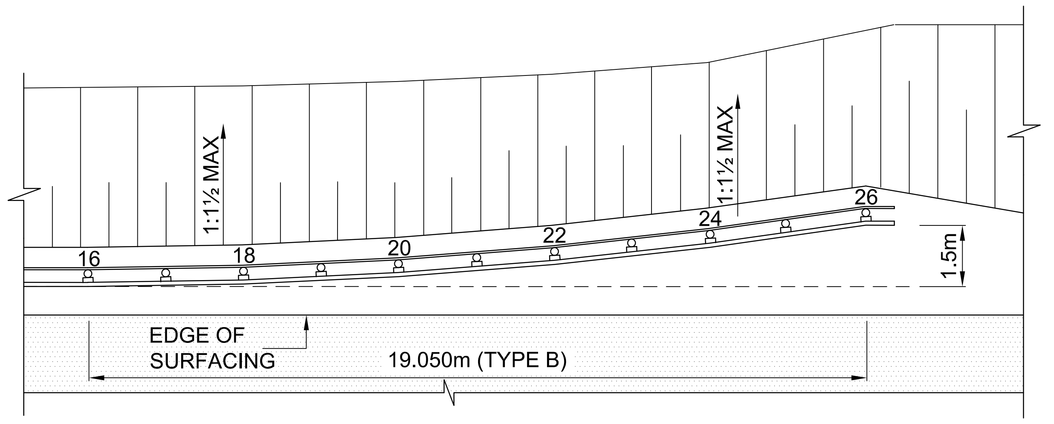


TABLE 1

SETTING OUT POSITIONS OF GUARDRAIL POSTS

APPROACH SIDE (34.29m)			DEPARTING SIDE (19.05m)		
POST No.	HORIZONTAL OFF-SET X(mm)	VERTICAL OFF-SET Y(mm)	POST No.	HORIZONTAL OFF-SET X(mm)	VERTICAL OFF-SET Y(mm)
1	0	0	16	0	0
2	19	0	17	15	-
3	74	0	18	60	36
4	167	0	19	135	-
5	296	0	20	240	144
6	-	-	21	375	-
7	463	36	22	540	324
8	-	-	23	735	-
9	667	144	24	960	576
10	-	-	25	1215	-
11	907	324	26	1500	900
12	-	-			
13	1185	576			
14	-	-			
15	1500	900			

TABLE 2

MIN LENGTH OF GUARDRAIL REQUIRED (EXCLUDING TERMINAL SECTIONS)

DESIGN SPEED Km/h	MIN. LENGTH
60	12 SECTIONS (45.72m)
70	14 SECTIONS (53.34m)
80	16 SECTIONS (60.96m)
90	20 SECTIONS (76.20m)
100	23 SECTIONS (87.63m)
110	27 SECTIONS (102.87m)
120	29 SECTIONS (110.49m)
130	32 SECTIONS (121.92m)
140	35 SECTIONS (133.35m)

* NOTES
GUARDRAIL ONLY TO BE ERECTED IF INSTRUCTED BY THE ENGINEER

No.	DATE	REVISION	CONSULT. ENG.
V1	21/06/2023	ORIGINAL VERSION	-

CONSTRUCTION RECORD (AS-BUILT)
WORKS CONTRACT ENGINEER
Name :
Prof. Reg. No. :
Date :
SANRAL PROJECT MANAGER
Name :
Date :

DESIGNED BY
NAME -
Prof. Reg. No. -
CHECKED BY
NAME -
Prof. Reg. No. -
DRAWN BY
NAME -

CONSULTANT APPROVAL
Name : -
Prof. Reg. No. : -
Date : -

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SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
Reg.No. 1998/009884/30
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

NORTHERN REGION
38 Ida Street
Menlo Park
Pretoria
0081
Private Bag X17
Lynnwood Ridge
0040
Tel: (012) 426 6200

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
MSBBR : R531 SECTION 2 - EMERGENCY REPAIR OF DAMAGED STEEL RIBBED PIPE CULVERT AT km 6.9 AND SINKHOLE AT km 11.4

DRAWING DESCRIPTION
GUARDRAILS
DETAIL OF TERMINAL SECTIONS - SHEET 1 OF 2 SHEETS

SCALE : AS SHOWN | SHEET 1 OF 2

PROJECT NUMBER	R.531-020-2023/1	
DRAWING LOCATION DATA	START	END
ROUTE	R531	R531
SECTION	2	2
DRAWING km DISTANCE	km 6.90	km 11.40
DRAWING TYPE	ROADS - ANCILLARY	
BRIDGE/STRUCTURE No.	-	
CONSULTANT DRAWING No.	TP1916.32-C03	VER V1
SANRAL DOCUMENT #	-	

DRAWING TP1916.32-C03