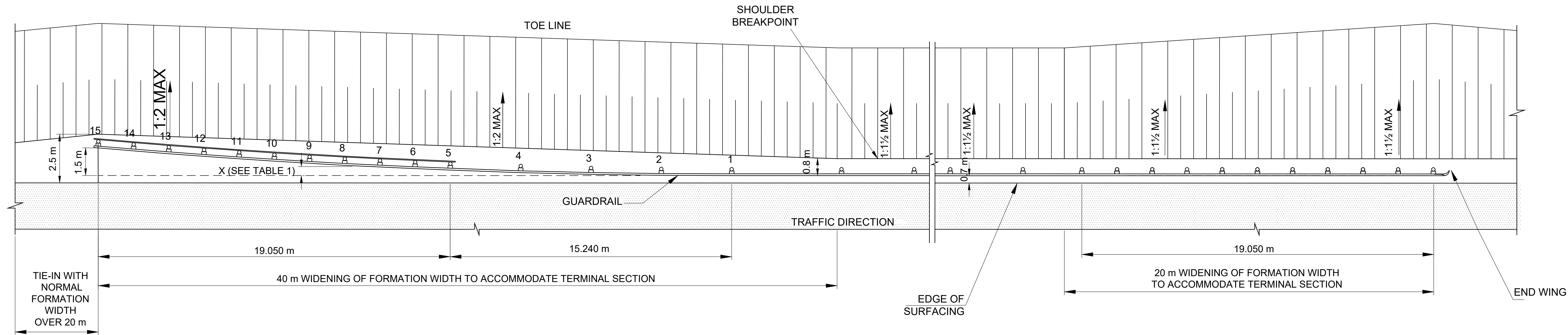
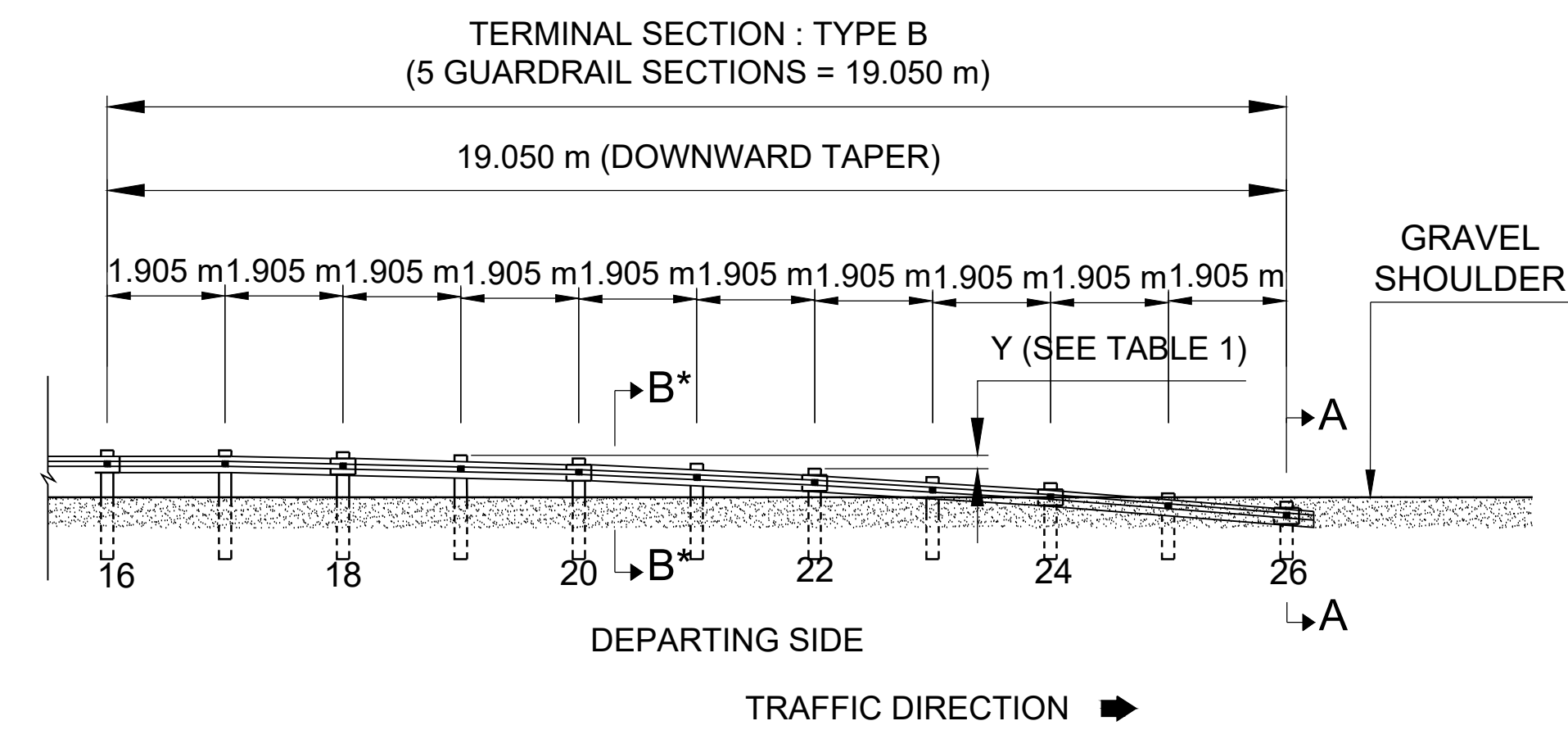


FRONT ELEVATION
N.T.S

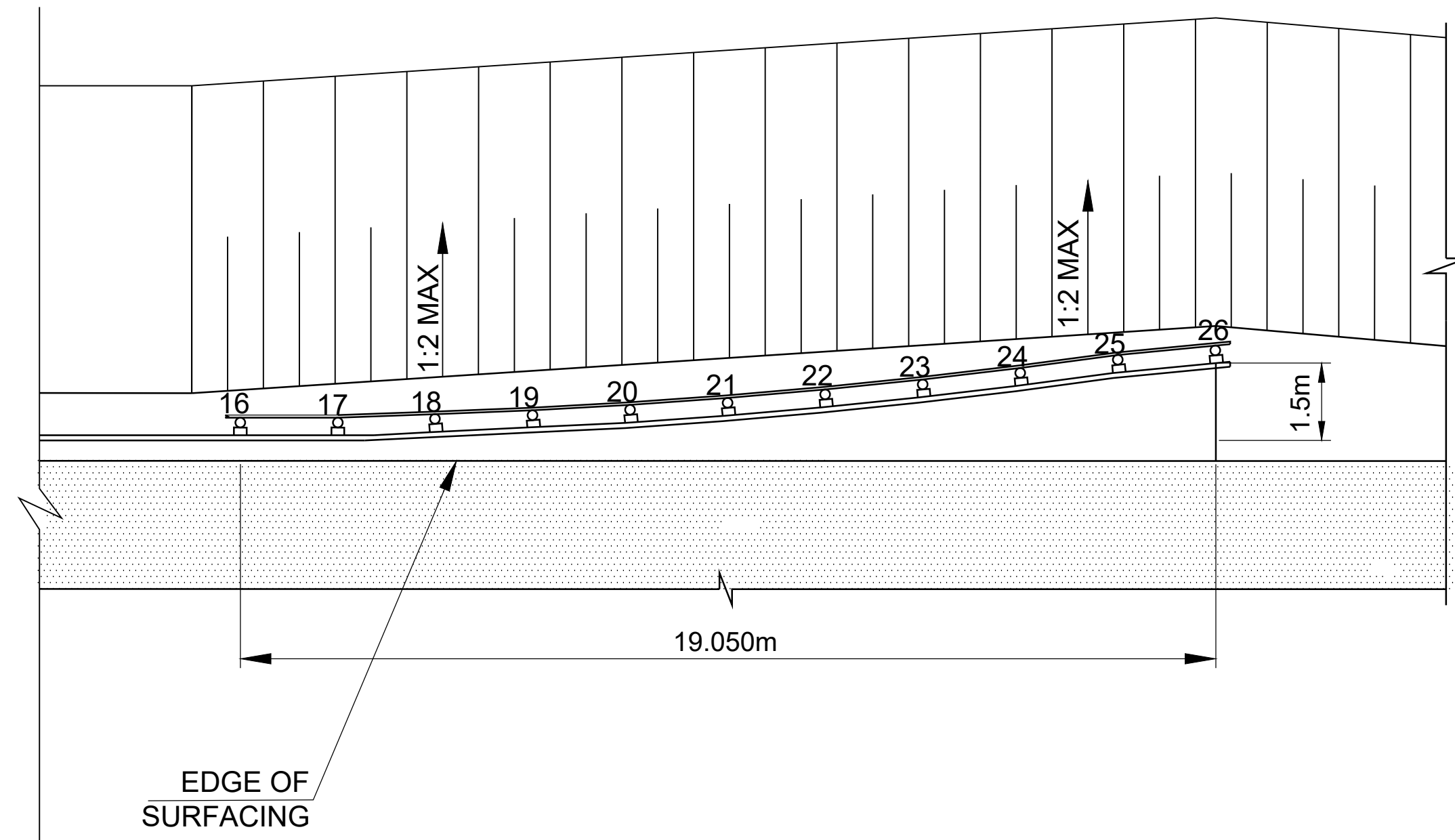
NOTE:
* GUARDRAIL ONLY TO BE ERECTED IF INSTRUCTED BY THE ENGINEER.



PLAN DETAIL OF TERMINAL SECTIONS AT APPROACH AND DEPARTING SIDES
N.T.S

TABLE 1 SETTING OUT POSITION OF GUARDRAIL POSTS					
APPROACH SIDE (34.29 m)			DEPARTING SIDE (19.05 m)		
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 (45.72 m)
70	14 SECTIONS (53.34 m)
80	16 SECTIONS (60.96 m)
90	20 SECTIONS (76.20 m)
100	23 SECTIONS (87.63 m)
110	27 SECTIONS (102.87 m)
120	29 SECTIONS (110.49 m)
130	32 SECTIONS (121.92 m)
140	35 SECTIONS (133.35 m)



FOR TENDER
(FOR TENDER PURPOSES ONLY)

		CONSTRUCTION RECORD (AS-BUILT)		DESIGNED BY		CONSULTANT APPROVAL		HEAD OFFICE		EASTERN REGION		ACCEPTANCE		PROJECT DESCRIPTION		PROJECT NUMBER	
		WORKS CONTRACT ENGINEER		NAME		Name		48 Tambotie Avenue		58 Van Eck Place		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		THE CONSTRUCTION OF PAVEMENT AND SETTLEMENT REPAIRS ON NATIONAL ROUTE 2, SECTION 30 FROM BUSHVELD RETREAT FARM (km47.0) TO HLUHLUWE INTERCHANGE (km 55.0)		N.002-300-2020/1	
		Name		Prof. Reg. No.		Date		Pretoria 0184		Pietermaritzburg 3201				ROUTE		START	
		Date		CHECKED BY				PO Box 415		PO Box 100410				SECTION		N.002	
		SANRAL PROJECT MANAGER		NAME		Prof. Reg. No.		Pretoria 0001		Scottsville 3209				km 47.0		SECTION 30	
		Name		DRAWN BY				Tel: (012) 844 8000		Tel: (033) 392 8100		for the SA NATIONAL ROADS AGENCY SOC LTD.		km 55.0		N/A	
		Date												BRIDGE/STRUCTURE No.		TP2113-T-113	
1		23/10/09												CONSULTANT DRAWING No.		VER	
No.		DATE		REVISION		CONSULT. ENG.								SANRAL DOCUMENT #		1	