



NOTE:

1. LENGTH OF GUARDRAIL = 4 130
2. NORMAL SPACING OF POSTS = 3 810

NOTES ON ERECTION DETAILS

1. THE HOLES FOR TIMBER POSTS SHALL BE OF SUFFICIENT SIZE TO PERMIT PROPER SETTING OF THE POSTS AND TO ALLOW SUFFICIENT ROOM FOR BACKFILLING.
2. AT LEAST 1,0m OF POST SHALL BE EMBEDDED IN THE GROUND
3. HOLES FOR TIMBER POSTS SHALL BE SPACED TO SUIT THE STANDARD LENGTH OF GUARDRAIL SUPPLIED.
4. HOLES SHALL BE BACKFILLED WITH (12:1) SOIL : CEMENT MIXTURE AT OPTIMUM MOISTURE CONTENT IN COMPACTED LAYERS NOT EXCEEDING 100mm.
5. WHERE JOINTED, THE END OF THE GUARDRAIL WHICH OVERLAPS ON THE SIDE OF THE TRAFFIC SHALL POINT IN THE DIRECTION OF THE TRAFFIC MOVEMENT.

GUARDRAIL WARRANT

1. WHERE THE ROAD IS IN FILL > 3.0m.
2. WHERE THERE IS PERMANENT WATER ADJACENT TO THE ROADWAY.
3. ON ALL BRIDGE APPROACHES.
4. AT OBSTRUCTIONS 1.0m AWAY FROM THE SHOULDER BREAKPOINT.
5. AT ANY DANGER POINT WHERE THE OFF-SHOULDER HAZARD IS GREATER THAN THE HAZARD OF THE GUARDRAIL.

THE ABOVE CRITERIA ARE TO BE APPLIED WITH DISCRETION AND THE POSITION OF ALL GUARDRAILS MUST BE CONFIRMED WITH THE ENGINEER PRIOR TO THE ERECTION THEREOF.

			CONSTRUCTION RECORD (AS-BUILT)		DESIGNED BY		CONSULTANT APPROVAL				HEAD OFFICE		EASTERN REGION		ACCEPTANCE		PROJECT DESCRIPTION				PROJECT NUMBER		CONTRACT N3TC/RM-2021-600			
			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 WHATEVER CAUSE OR HOWEVER ARISING		ROUTINE ROAD MAINTENANCE OF NATIONAL ROUTE 3: N3 TOLL ROAD BETWEEN CEDARA AND HEIDELBERG SOUTH INTERCHANGE				DRAWING LOCATION DATA		START		END	
			Name :		J.C. MARKRAM		Prof. Reg. No. : 980187		N3 Toll Concession (RF) Pty Ltd		Val de Grace		Pietermaritzburg		Date :		ROUTE				N3		N3			
			Prof. Reg. No. :		202001496		CHECKED BY		Southdowns Office Park		Pretoria 0184		PO Box 415		Date :		SECTION				4		11			
			Date :		202001496		NAME		22 Karee Street, Irene		Pretoria 0001		PO Box 100410		Date :		DRAWING km DISTANCE				0		415			
			N3TC PROJECT MANAGER		D.D. ROBERTSON		Prof. Reg. No. :		N3 Toll Concession (RF) Pty Ltd		South Africa		Scottsville 3209		for N3TC CONCESSIONAIRE		DRAWING DESCRIPTION				ROADS - TYPICAL DETAIL					
			Name :		202001496		DRAWN BY		1st Floor, Block D		PO Box 415		PO Box 100410		Date :		GUARDRAILS				CONSULTANT DRAWING No.		N3TC-GR-04		VER	
			Date :		202001496		NAME		22 Karee Street, Irene		South Africa		3209		Date :		DETAIL OF TERMINAL SECTIONS				SANRAL DOCUMENT #		-		V1	
			Name :		TA VAN DER MERWE		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :		SCALE: AS SHOWN				SHEET 2 OF 2					
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209		Date :											
			Date :		202001496		Date :		N3 Toll Concession (RF) Pty Ltd		South Africa		3209													