

REFER INTERSECTION DETAILS PLAN FOR KERB RETURN LONGITUDINAL SECTIONS

MOUNTAIN RIDGE ROAD

Table 3.2: Safe intersection sight distance (SISD) and corresponding minimum crest vertical curve size for sealed roads ($S \leq 1$)

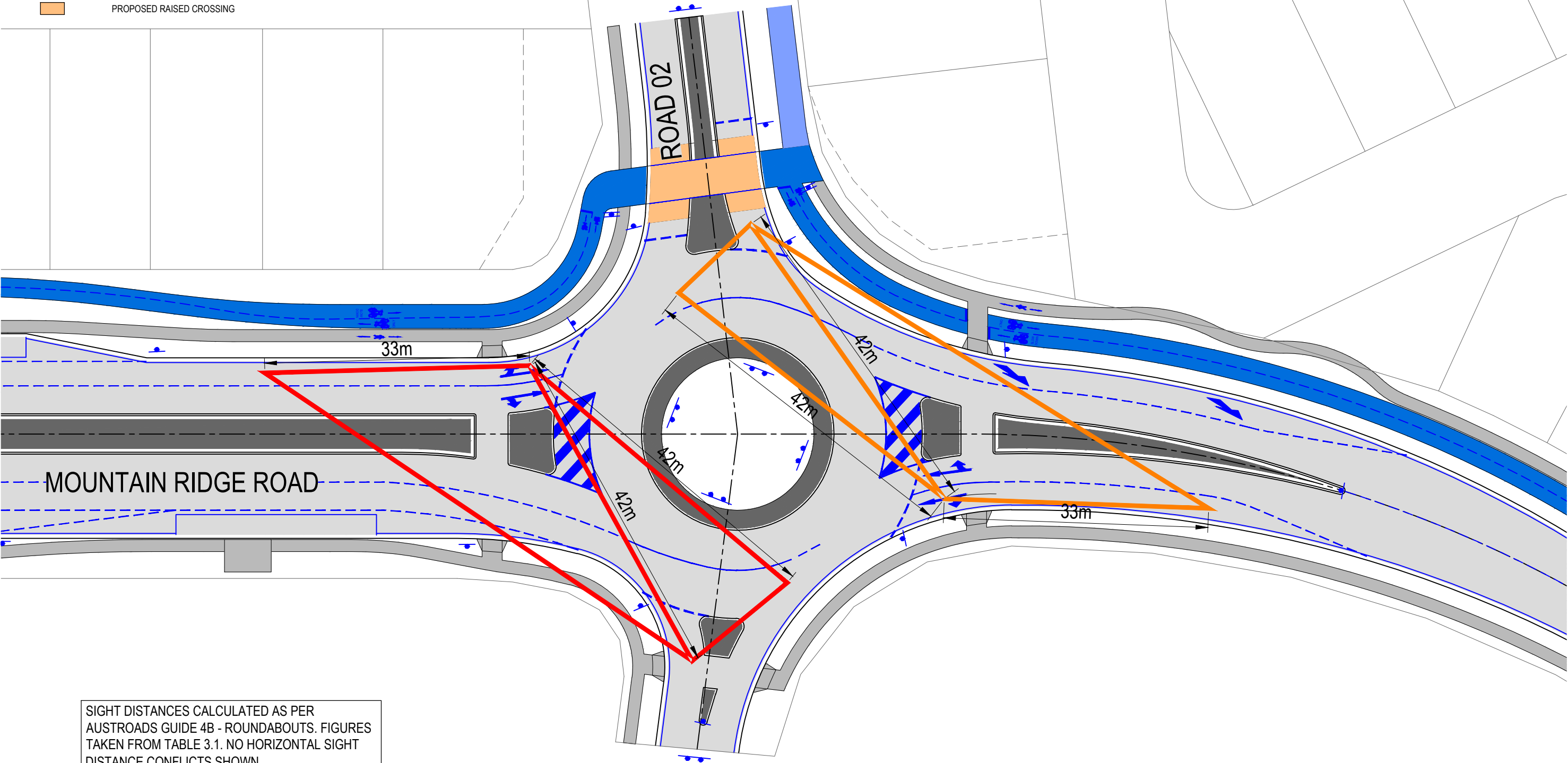
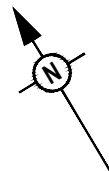
Design speed (km/h)	Based on safe intersection sight distance for cars ⁽¹⁾ $f_1 = 1.1$; $f_2 = 1.25$, $g = 0.36\%$; Observation time = 3 sec					
	$R_1 = 1.5 \text{ sec}^{(2)}$		$R_2 = 2.0 \text{ sec}$		$R_3 = 2.5 \text{ sec}$	
	SISD (m)	K	SISD (m)	K	SISD (m)	K
40	67	4.9	73	8	—	—
50	90	8.6	97	10	—	—
60	114	14	123	16	—	—
70	141	22	151	25	—	—
80	170	31	181	36	—	—
90	201	43	214	49	226	55
100	234	59	248	68	282	74
110	—	—	286	87	300	97
120	—	—	324	112	341	124
130	—	—	365	143	383	157

Table 5.5: Stopping sight distances for cars on sealed roads

Design speed (km/h)	Absolute minimum values Only for specific road types and situations ⁽¹⁾ based on $d = 0.46$ m ⁽²⁾			Desirable minimum values for all road types based on $d = 0.36$		
	$R_1 = 1.5$ s	$R_1 = 2.0$ s	$R_1 = 2.5$ s	$R_2 = 1.5$ s	$R_2 = 2.0$ s	$R_2 = 2.5$ s
	40	30	36	—	34	40
50	42	49	—	48	55	62
60	56	64	—	64	73	81
70	71	81	—	83	92	102
80	88	99	—	103	114	126
90	107	119	132	126	139	151
100	—	141	155	—	165	179
110	—	166	180	—	193	209
120	—	190	207	—	224	241
130	—	217	236	—	267	275
Corrections due to grade (%) ⁽³⁾	-6	-6	-4	-2	2	4
40	5	3	2	1	-1	-2
50	8	5	3	2	-1	-3
60	11	8	5	2	-2	-4
70	15	11	7	3	-3	-5

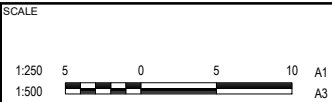
LEGEND

- PROPOSED PATH AND PRAM RAMP
- PROPOSED FOOTPATH
- PROPOSED SHARED FOOTPATH
- PROPOSED CYCLE PATH
- PROPOSED NEW ROAD PAVEMENT
- PROPOSED ISLAND
- PROPOSED RAISED CROSSING



SIGHT DISTANCES CALCULATED AS PER
AUSTROADS GUIDE 4B - ROUNDABOUTS. FIGURES
TAKEN FROM TABLE 3.1. NO HORIZONTAL SIGHT
DISTANCE CONFLICTS SHOWN.

REV	DATE
A	30.05.25



CLIENT	FRASERS PROPERTY AUSTRALIA
PROJECT NAME	NEW BEITH PRECINCT A

DRAWING TITLE	MOUNTAIN RIDGE ROAD HORIZONTAL SIGHT DISTANCES
PROJECT No.	23-0153
DRAWING No.	SK0011
REVISION	A