

Annex H

Replacement Page of Traffic Impact Assessment



5. TRAFFIC IMPACT ASSESSMENT

5.1 Operational Assessment

5.1.1 To assess the potential traffic impact due to the proposed development, capacity analysis of the identified critical junction for both reference and design scenarios in year 2036 were carried out. The results are summarized in **Table 5.1**, and the junction calculation sheets are attached in **Appendix A**.

Table 5.1 Junction Performance of Identified Critical Junction in Year 2036

Ref.	Junction	Figure No.	Method of Control	Year 2036 RC / RFC ⁽¹⁾			
				Reference Scenario		Design Scenario	
				AM Peak	PM Peak	AM Peak	PM Peak
A	Yu Tung Road / Shun Tung Road (With Junction Modification)	4.1	Signalized	17% ⁽²⁾	41% ⁽²⁾	16% ⁽²⁾	40% ⁽²⁾
B	Yu Tung Road/ Chung Yan Road (With Junction Modification)	4.2	Signalized	17% ⁽²⁾	43% ⁽²⁾	16% ⁽²⁾	38% ⁽²⁾
C	Chung Yan Road/ Tung Chung Road North (With Junction Modification)	4.3	Roundabout	0.28 ⁽²⁾	0.25 ⁽²⁾	0.34 ⁽²⁾	0.26 ⁽²⁾
D	Tung Chung Road North/ Access Road to Chung Yan Road/ Yat Tung Street	3.5	Priority	0.54	0.47	0.54	0.52
E	Chui Kwan Drive/ Chung Yan Road	3.6	Priority	0.34	0.19	0.34	0.19

Notes: (1) RC = Reserve Capacity

RFC = Ratio of Flow to Capacity for Priority Junction and Roundabout

(2) Junction improvements mentioned in TCNTE (W) Study were considered.

5.1.2 The assessment results in **Table 5.1** revealed that all critical junctions would still operate within their capacities in both reference and design year 2036 during the peak hours.