

Table 17 – Operational Measures for Mitigation Scenarios

Intersection Number	Location	Alternative	AM Peak Hour			PM Peak Hour		
			Delay (sec)	LOS	V/C	Delay (sec)	LOS	V/C
6	University Blvd & Fritts Crossing	2023 Build	12.2 (WB)	B	0.32	29.6 (WB)	D	0.50
		2028 Build	14.2 (WB)	B	0.57	562.6 (WB)	F	1.96
		2023 Signalized	2.8	A	0.36	6.7	A	0.43
		2028 Signalized	2.7	A	0.34	5.9	A	0.45
		2023 Roundabout	6.2	A	0.42	6.7	A	0.43
		2028 Roundabout	6.7	A	0.46	7.0	A	0.43
		2023 AWSC	18.9	C	0.73	24.6	C	0.83
		2028 AWSC	19.2	C	0.77	98.8	F	1.45
7	University Blvd & Eastman Crossing/ Bobby Foster	2023 Build	93.9 (EBL)	F	0.83	25.6 (EBL)	D	0.58
		2028 Build	** (WBL)	F	3.83	** (WBL)	F	2.82
		2023 Signalized	6.0	A	0.37	8.3	A	0.57
		2028 Signalized	9.0	A	0.59	12.4	B	0.78
		2023 Roundabout	5.8	A	0.16	7.0	A	0.29
		2028 Roundabout	13.7	B	0.74	14.5	B	0.64
		2023 AWSC	11.3	B	0.42	13.1	B	0.48
		2028 AWSC	52.7	F	0.78	148.5	F	1.78
8	University Blvd & Strand Loop	2023 Build	21.0 (EB)	C	0.57	184.5 (EB)	F	1.21
		2028 Build	184.7 (EB)	F	1.25	** (WBL)	F	3.50
		2023 Signalized	10.8	B	0.67	20.6	C	0.89
		2028 Signalized	10.4	B	0.68	26.2	C	0.97
		2023 Roundabout	5.4	A	0.25	13.9	B	0.71
		2028 Roundabout	7.7	A	0.50	45.1	E	1.24
		2023 AWSC	11.2	B	0.47	70.7	F	1.17
		2028 AWSC	18.1	C	0.64	213.9	F	1.96

**-Intersection delay calculated in Synchro was too high. As a result, Synchro reports delay as "Err".

6.3 Recommendations Intersections

From the mitigation analyses conducted in Synchro, it can be seen that signalizing or roundabout at Intersections 6 and 7 results in a LOS of B or better in both the 2023 and 2028 Build conditions; however, roundabouts at Intersections 6 and 7 will be more difficult to construct due to the existing infrastructure and are not recommended. For Intersection 8, signalizing the intersection results in a LOS of C or better in both the 2023 and 2028 Build conditions. A roundabout at Intersection 8 would improve the LOS in 2023, but in the 2028 PM Peak, a LOS E is expected. However, a roundabout at Intersection 8 will be more difficult to construct at this location and is not recommended. It is recommended that signal warrants be conducted in order to verify if a signal or roundabout is warranted.

An AWSC for Intersection 6-8 is not recommended, since the LOS F remains in the 2028 PM peak hour when compared to the Build Conditions. In the AM peak, the LOS improves to a LOS C or better in 2023 and 2028 except for Intersection 8 which experiences a LOS F in the 2028 AM peak hour. In the PM peak,