

Appendix L3

Transportation Assessment



MEMORANDUM

TO: Wes Pringle, Los Angeles Department of Transportation

FROM: Emily Wong, P.E.
Janet Ye, EIT

DATE: December 21, 2021

RE: Transportation Assessment for the
4th & Hewitt Project
Los Angeles, California

Ref: J1509

This memorandum presents an assessment for the 4th & Hewitt Project (Project) located at 401 South Hewitt Street in the Arts District community of the City of Los Angeles (City). Since the issuance of the Los Angeles Department of Transportation's (LADOT) *Inter-Departmental Correspondence: Updated Transportation Impact Analysis for the 4th and Hewitt Commercial Development Located at 405 South Hewitt Street* (April 14, 2020) (LADOT Assessment Letter) relative to the *Transportation Impact Study for the 4th & Hewitt Project* (Gibson Transportation Consulting, Inc., Revised February 2020) (Approved Transportation Study), the Project's anticipated future buildout year has been refined.

The Project's potential California Environmental Quality Act (CEQA) transportation impacts were evaluated in the Approved Transportation Study in accordance with the adopted methodology and guidelines in effect at the time of the initial approval, *Transportation Assessment Guidelines* (LADOT, July 2019) (2019 TAG). LADOT has since released an updated version of *Transportation Assessment Guidelines* (July 2020) (2020 TAG); however, the CEQA analysis methodology and impact thresholds remain consistent with the 2019 TAG. Therefore, the analysis presented below is consistent with the guidelines and methodology of both the 2019 TAG and 2020 TAG. As further detailed below, the refinement to the Project's future buildout year would not affect the CEQA transportation impact analysis presented in the Approved Transportation Study. Therefore, the conclusions of the Approved Transportation Study remain valid, and no further CEQA analysis would be required.

The Project's non-CEQA transportation analysis in the Approved Transportation Study was based on the level of service (LOS) methodology, in accordance with the adopted methodology and guidelines at the time of the Project's Notice of Preparation, *Transportation Impact Study Guidelines* (LADOT, December 2016). According to LADOT guidance, the analysis presented in this memorandum satisfies the requirements for non-CEQA analysis of both the 2019 TAG and 2020 TAG.

APPROVED TRANSPORTATION STUDY

The Approved Transportation Study included the analysis of the Project with approximately 311,682 square feet (sf) of office space and approximately 8,149 sf of commercial space. The Project would retain the existing 7,800 sf building formerly occupied by the A+D Museum¹, but replace the existing office and storage uses currently on-site. The Approved Transportation Study assumed full buildout of the Project in Year 2023.

Vehicular access to the on-site parking garage would be provided via two driveways on 4th Street. Access to the loading dock would be provided via Hewitt Street. Pedestrian access into the Project Site would be provided from Colyton Street into the existing building formerly occupied by the A+D Museum, from 4th Street and Hewitt Street to each of the ground floor uses, and from Colyton Street and Hewitt Street to the passageway to the commercial office building main lobby.

As detailed in the Approved Transportation Study, the Project would not result in a significant impact under any of the CEQA thresholds identified in the 2019 TAG and 2020 TAG, which include the following:

- Threshold T-1: Conflicting with plans, programs, ordinances, or policies
- Threshold T-2.1: Causing substantial vehicle miles traveled
- Threshold T-2.2: Substantially inducing automobile travel
- Threshold T-3: Substantially increasing hazards due to a geometric design feature or incompatible use

Thus, no mitigation measures would be required for the Project. Nevertheless, the Project would implement the following measures to address potential non-CEQA operational deficiencies that may result from the Project:

- Transportation Demand Management program to reduce overall trip generation by discouraging single occupancy vehicle use and by promoting the use of alternative travel modes.
- Areawide Transportation Management Organization to increase transit and mode choices in the Study Area

The Approved Transportation Study also proposed implementation of Transportation Systems Management (TSM) and physical improvement measures; however, those improvements were not available for Project implementation as TSM improvements have already been fully deployed in the Project area and the physical improvement measures were ultimately deemed infeasible by LADOT due to the geometric limitations of the existing intersection configurations.

¹ At the time that the issuance of the Project's Notice of Preparation (September 20, 2017) and Approved Transportation Study (February 2020), the 7,800 sf existing building was occupied by the A+D Museum. In the summer of Year 2020, the A+D Museum moved out of the building and began operating virtually. The building is currently vacant. While there are no plans for reoccupation as of the date of this study, it is anticipated that the building would be re-occupied with a use that is consistent with historic uses, such as the A+D Museum. The Project's requested discretionary approvals would not physically alter the 7,800-sf building.

PROJECT REFINEMENTS

With the recent refinements to the Project, the development program would be maintained and would continue to include approximately 311,682 sf of office space and approximately 8,149 sf of commercial space, as well as retain the existing 7,800 sf building formerly occupied by the A+D Museum. In addition, the site access and circulation plan in the Approved Transportation Study would also be maintained. Therefore, no revisions to the CEQA impact analysis would be required, and the conclusions of the Approved Transportation Study remain valid.

However, the anticipated future buildout year of the Project has been extended from Year 2023 to Year 2025. Therefore, the non-CEQA Future Conditions operational analysis was updated to reflect Year 2025 conditions, to correspond with the refined anticipated buildout year of the Project. Details of the analysis are presented below.

LOS Evaluation

Consistent with the Approved Transportation Study, the LOS analysis was conducted for all 23 study intersections using the “Critical Movement Analysis (CMA) – Planning” (*Transportation Research Circular No. 212, Interim Materials on Highway Capacity*, Transportation Research Board, 1980) methodology.

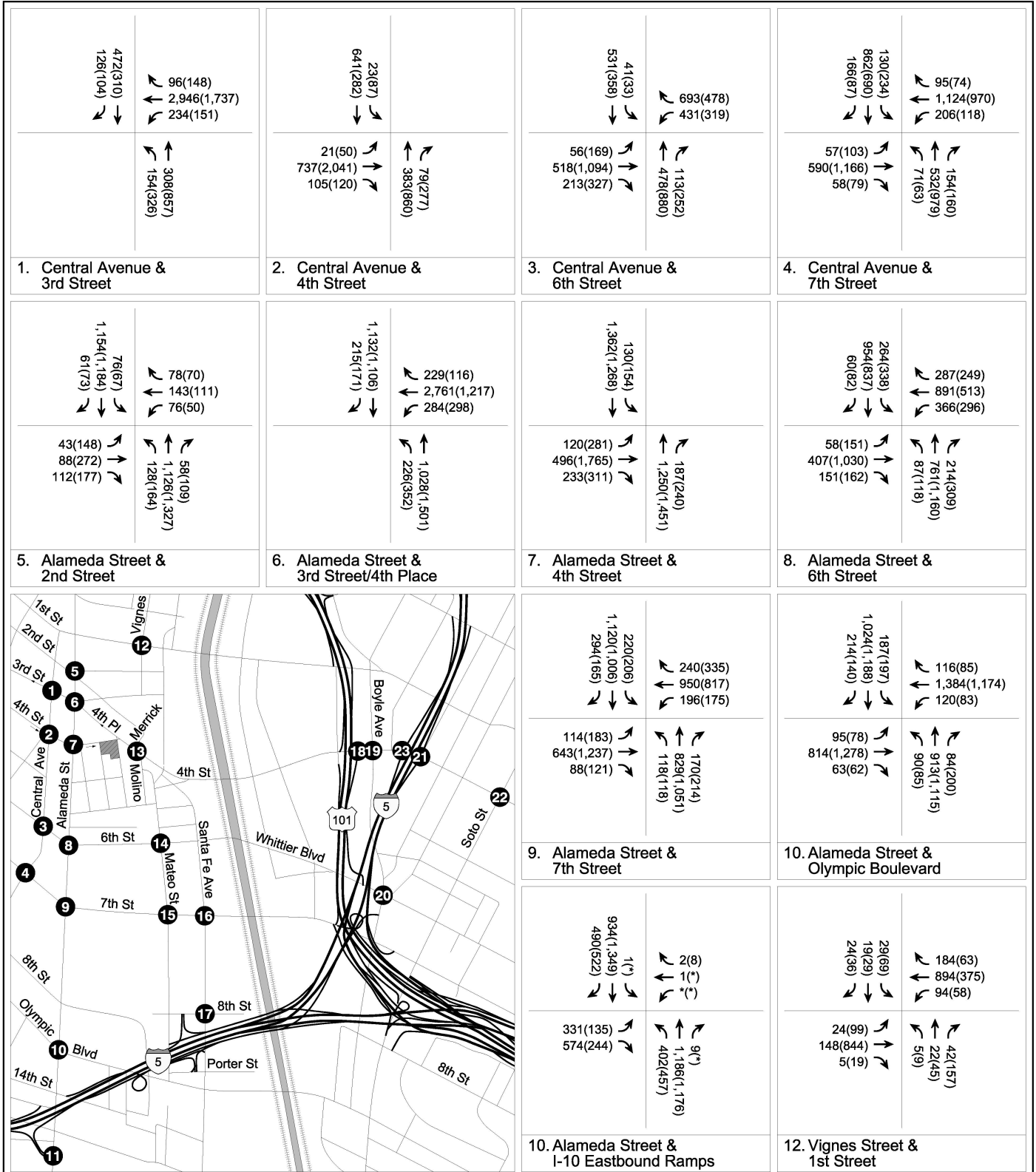
Detailed LOS calculation worksheets are provided in the Attachment.

Future Conditions. All future cumulative traffic growth (i.e., ambient and Cumulative Project traffic growth) and transportation infrastructure improvements described in Chapter 3 of the Approved Transportation Study are incorporated into this analysis. The revised Future without Project Conditions, Future with Project Conditions, and Future with Project with Transportation Improvements Conditions traffic volumes for Year 2025 are illustrated in Figures 1 through 3.

Table 1 summarizes the results of the Future without Project, Future with Project, and Future with Project with Transportation Improvements Conditions during the weekday morning and afternoon peak hours for the 23 study intersections in Year 2025. As shown in Table 1, the Project’s proposed transportation improvement measures from the Approved Transportation Study would also effectively improve the intersection operating conditions at the 23 study intersections under Future with Project Conditions in Year 2025.

CONCLUSIONS

With the recent refinements to the Project, the development program and site access and circulation plan of the Approved Transportation Study would be maintained. Therefore, no additional CEQA transportation analysis would be required and the CEQA impact conclusions of the Approved Transportation Study remain valid. Although the buildout of the Project has been extended to Year 2025, the Project’s operating conditions at the 23 study intersections would be consistent with those identified in the Approved Transportation Study. Furthermore, the Project’s proposed transportation improvement measures outlined in the Approved Transportation Study would also effectively improve intersection operations in Year 2025. Therefore, no further improvement measures would be required.



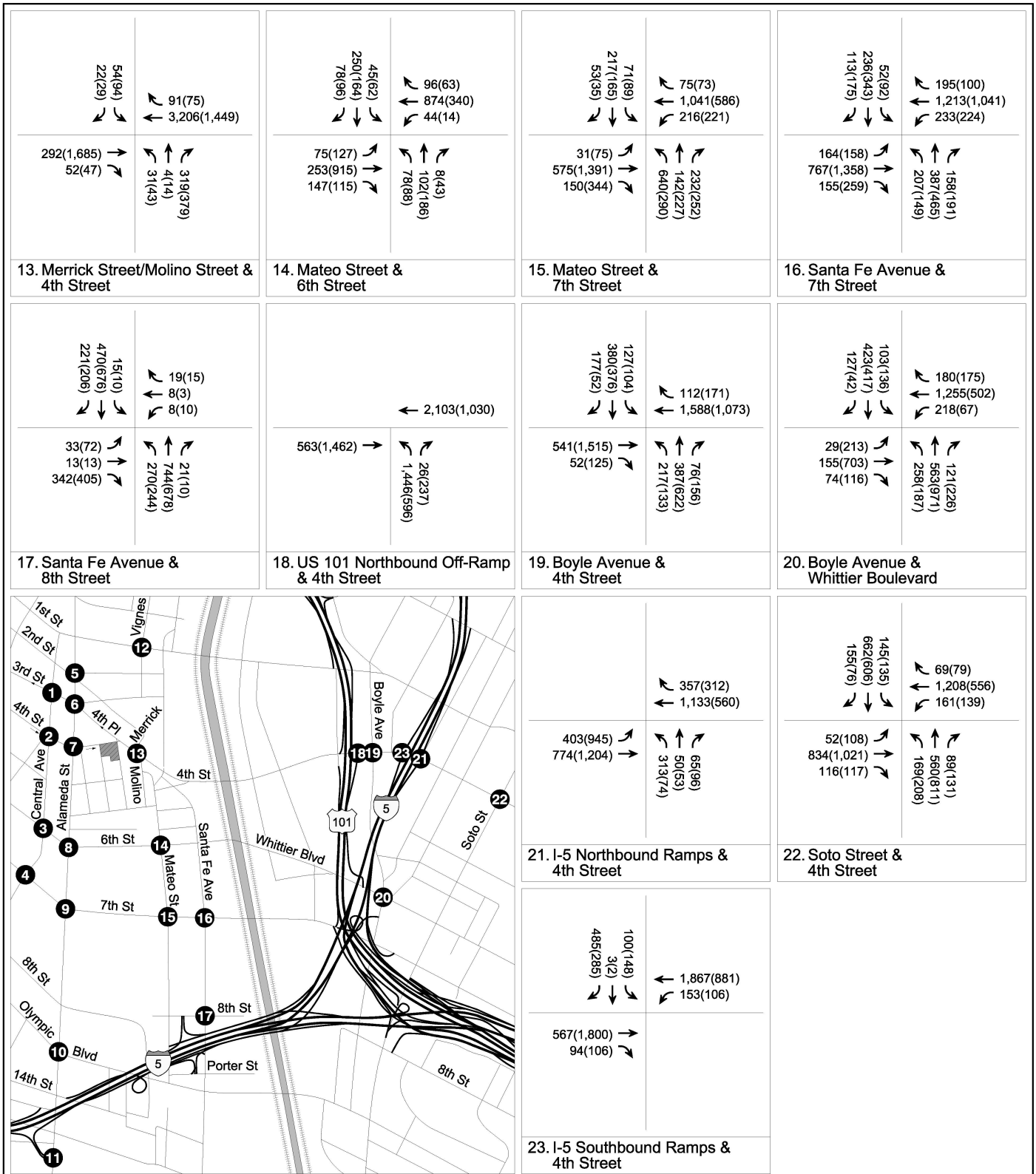
LEGEND

- Project Site
- Analyzed Intersection
- x(x) AM(PM) Peak Hour Traffic Volumes
- * Negligible Volume

N
 Not to Scale

FUTURE WITHOUT PROJECT CONDITIONS (YEAR 2025)
PEAK HOUR TRAFFIC VOLUMES

FIGURE
1



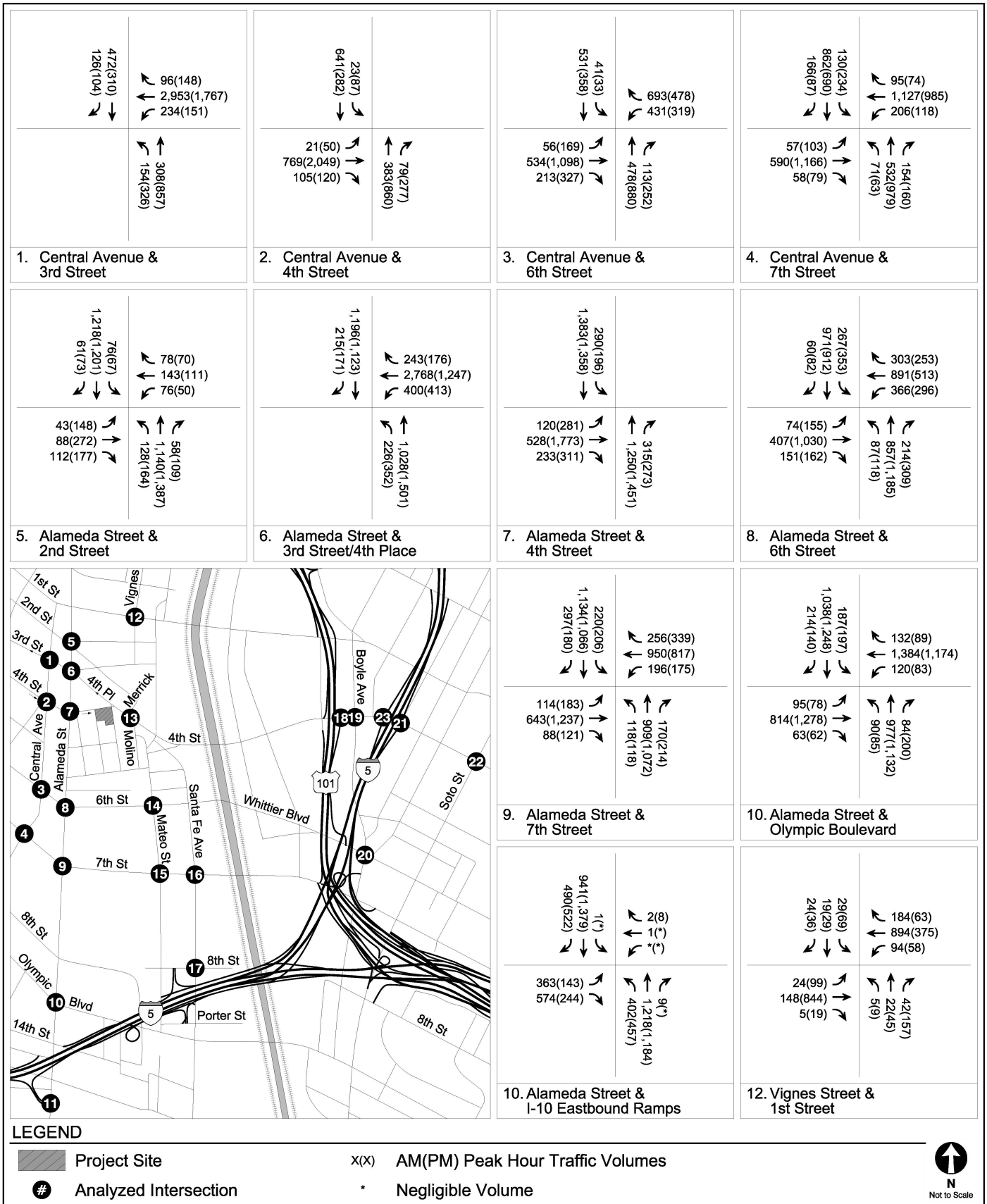
LEGEND

- Project Site
- Analyzed Intersection
- AM(PM) Peak Hour Traffic Volumes
- Negligible Volume



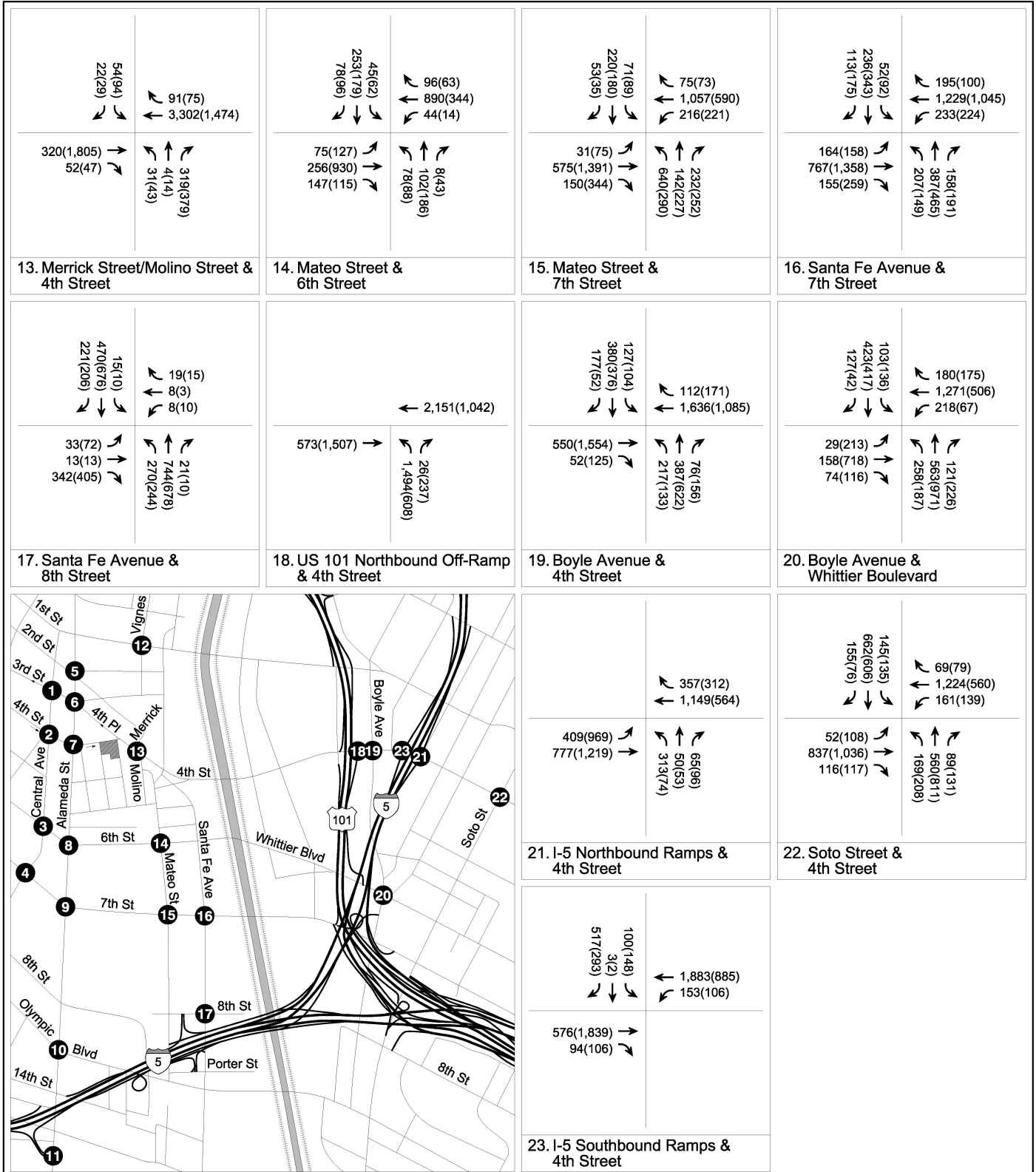
**FUTURE WITHOUT PROJECT CONDITIONS (YEAR 2025)
PEAK HOUR TRAFFIC VOLUMES**

**FIGURE
1 (CONT.)**



FUTURE WITH PROJECT CONDITIONS (YEAR 2025)
PEAK HOUR TRAFFIC VOLUMES

FIGURE
2



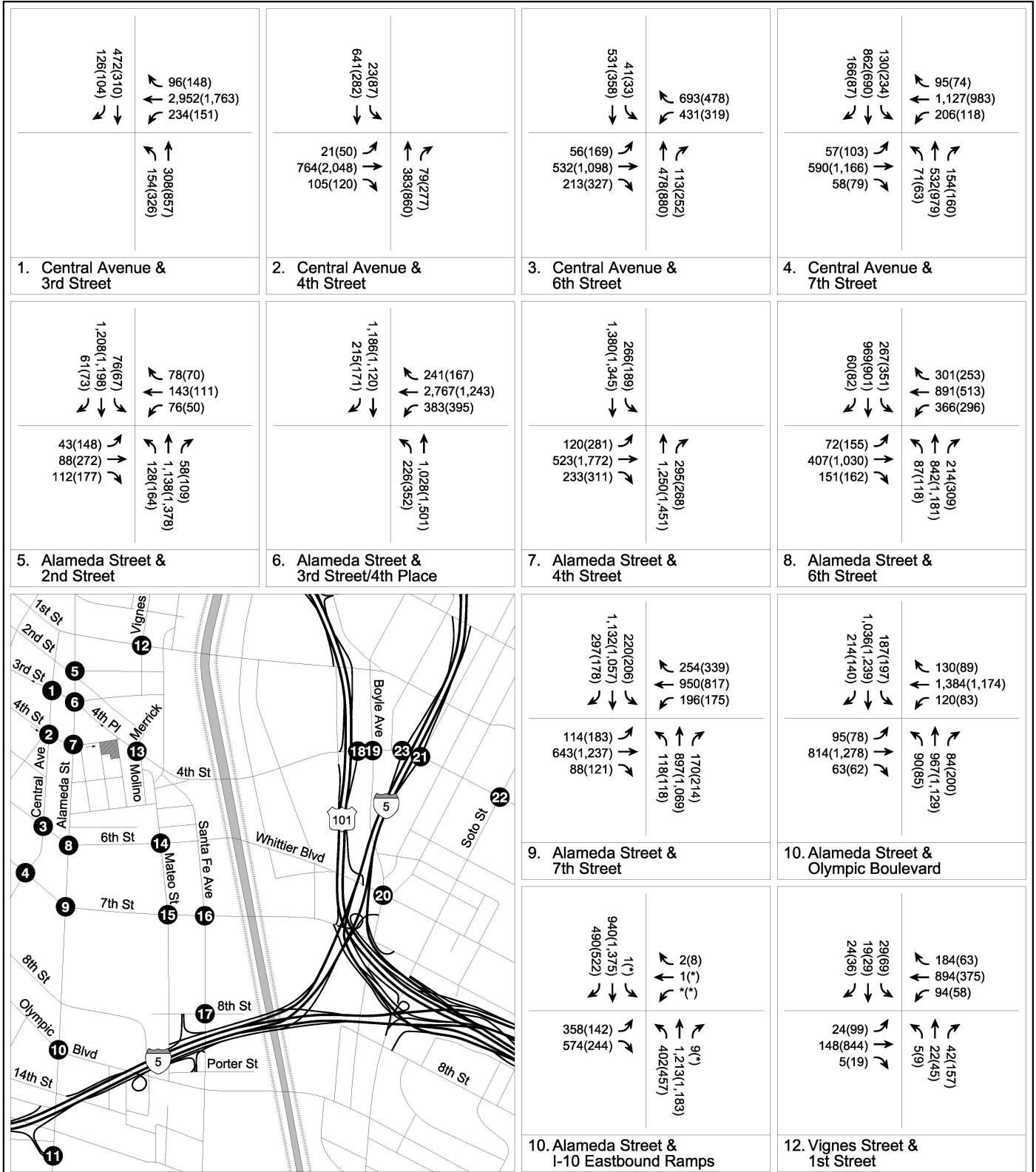
LEGEND

- Project Site
- Analyzed Intersection
- AM(PM) Peak Hour Traffic Volumes
- Negligible Volume



**FUTURE WITH PROJECT CONDITIONS (YEAR 2025)
PEAK HOUR TRAFFIC VOLUMES**

**FIGURE
2 (CONT.)**



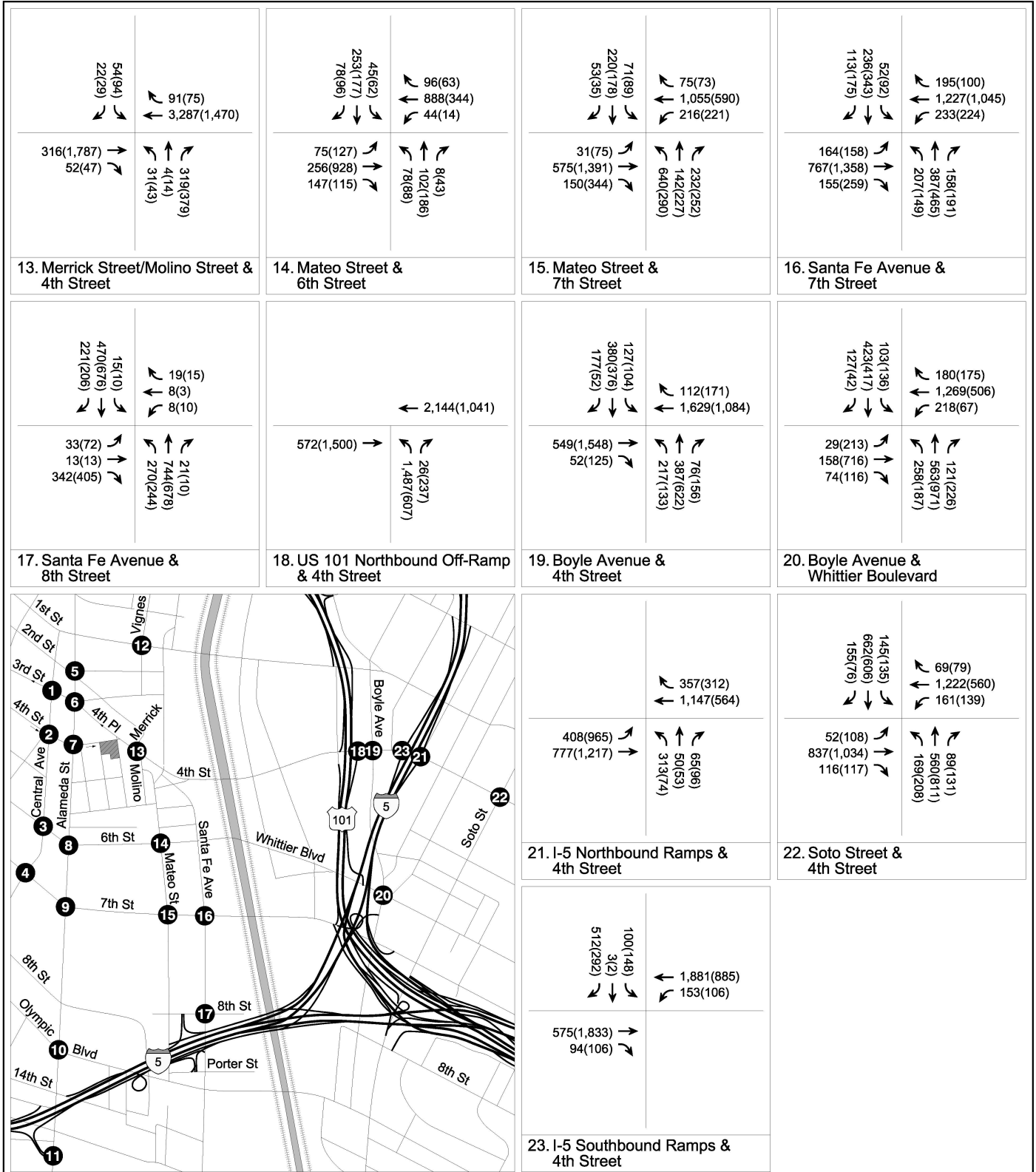
LEGEND

- Project Site
- Analyzed Intersection
- AM(PM) Peak Hour Traffic Volumes
- Negligible Volume



**FUTURE WITH PROJECT WITH TRANSPORTATION IMPROVEMENTS CONDITIONS (YEAR 2025)
PEAK HOUR TRAFFIC VOLUMES**

**FIGURE
3**



LEGEND

- Project Site
- Analyzed Intersection
- AM(PM) Peak Hour Traffic Volumes
- Negligible Volume



**FUTURE WITH PROJECT WITH TRANSPORTATION IMPROVEMENTS CONDITIONS (YEAR 2025)
PEAK HOUR TRAFFIC VOLUMES**

**FIGURE
3 (CONT.)**

TABLE 1
FUTURE WITH PROJECT CONDITIONS WITH TRANSPORTATION IMPROVEMENTS (YEAR 2025)
INTERSECTION LEVEL OF SERVICE

No.	Intersection	Peak Hour	Future without Project Conditions		Future with Project Conditions		Future with Project Conditions with Transportation Improvements	
			V/C	LOS	V/C	LOS	V/C	LOS
1.	Central Avenue & 3rd Street	A.M.	0.776	C	0.761	C	0.751	C
		P.M.	0.605	B	0.599	A	0.588	A
2.	Central Avenue & 4th Street	A.M.	0.384	A	0.388	A	0.376	A
		P.M.	0.748	C	0.734	C	0.724	C
3.	Central Avenue & 6th Street	A.M.	0.647	B	0.642	B	0.631	B
		P.M.	0.965	E	0.951	E	0.941	E
4.	Central Avenue & 7th Street	A.M.	0.908	E	0.894	D	0.884	D
		P.M.	0.954	E	0.937	E	0.927	E
5.	Alameda Street & 2nd Street	A.M.	0.602	B	0.611	B	0.597	A
		P.M.	0.687	B	0.690	B	0.677	B
6.	Alameda Street & 3rd Street/4th Place	A.M.	1.031	F	1.059	F	1.042	F
		P.M.	0.821	D	0.852	D	0.835	D
7.	Alameda Street & 4th Street	A.M.	0.621	B	0.761	C	0.729	C
		P.M.	1.021	F	1.045	F	1.028	F
8.	Alameda Street & 6th Street	A.M.	0.882	D	0.924	E	0.906	E
		P.M.	1.279	F	1.285	F	1.272	F
9.	Alameda Street & 7th Street	A.M.	0.976	E	0.973	E	0.961	E
		P.M.	1.088	F	1.079	F	1.068	F
10.	Alameda Street & Olympic Boulevard	A.M.	0.921	E	0.931	E	0.917	E
		P.M.	0.972	E	0.961	E	0.950	E
11.	Alameda Street & I-10 Eastbound Ramps	A.M.	0.773	C	0.782	C	0.769	C
		P.M.	0.821	D	0.821	D	0.809	D
12.	Vignes Street & 1st Street	A.M.	0.482	A	0.471	A	0.461	A
		P.M.	0.697	B	0.682	B	0.672	B
13.	Merrick Street/Molino Street & 4th Street	A.M.	0.905	E	0.913	E	0.900	D
		P.M.	0.761	C	0.763	C	0.751	C
14.	Mateo Street & 6th Street	A.M.	0.574	A	0.571	A	0.559	A
		P.M.	0.526	A	0.533	A	0.521	A
15.	Mateo Street & 7th Street	A.M.	1.016	F	1.012	F	1.001	F
		P.M.	1.198	F	1.185	F	1.175	F
16.	Santa Fe Avenue & 7th Street	A.M.	0.994	E	1.000	E	0.989	E
		P.M.	1.220	F	1.220	F	1.210	F
17.	Santa Fe Avenue & 8th Street	A.M.	0.684	B	0.671	B	0.661	B
		P.M.	0.703	C	0.689	B	0.679	B
18.	US 101 Northbound Off-Ramp & 4th Street	A.M.	0.859	D	0.869	D	0.854	D
		P.M.	0.521	A	0.521	A	0.510	A
19.	Boyle Avenue & 4th Street	A.M.	0.841	D	0.834	D	0.822	D
		P.M.	0.955	E	0.941	E	0.931	E
20.	Boyle Avenue & Whittier Boulevard	A.M.	0.798	C	0.787	C	0.776	C
		P.M.	0.803	D	0.788	C	0.777	C
21.	I-5 Northbound Ramps & 4th Street	A.M.	0.925	E	0.918	E	0.906	E
		P.M.	0.974	E	0.974	E	0.961	E
22.	Soto Street & 4th Street	A.M.	0.736	C	0.726	C	0.715	C
		P.M.	0.902	E	0.890	D	0.879	D
23.	I-5 Southbound Ramps & 4th Street	A.M.	0.898	D	0.908	E	0.894	D
		P.M.	0.807	D	0.812	D	0.799	C

Attachment

LOS Worksheets

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	Central Avenue	Year of Count:	2017	Ambient Growth: (%):	1	Conducted by:	GTC	Date:	12/9/2021								
1	East-West Street:	3rd Street	Projection Year:	2025	Peak Hour:	AM	Reviewed by:		Project:	401 S Hewitt								
No. of Phases Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			3			3			3									
Right Turns: FREE-1, NRTOR-2 or OLA-3?			NB-- 0 SB-- 0 EB-- 0 WB-- 0			NB-- 0 SB-- 0 EB-- 0 WB-- 0			NB-- 0 SB-- 0 EB-- 0 WB-- 0									
ATSAC-1 or ATSAC+ATCS-2? Override Capacity			2 0			2 0			2 0									
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	1	142	0	142	142	0	154	1	154	0	154	1	154	0	154	1	154
	Left-Through	0							0				0				0	
	Through	2	141	0	282	141	3	308	2	154	0	308	2	154	0	308	2	154
	Through-Right	0							0				0				0	
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTHBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through	0							0				0				0	
	Through	1	268	0	419	268	18	472	1	299	0	472	1	299	0	472	1	299
	Through-Right	1							1				1				1	
	Right	0	116	0	116	116	0	126	0	126	0	126	0	126	0	126	0	126
EASTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through	0							0				0				0	
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through-Right	0							0				0				0	
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WESTBOUND	Left	0	211	0	211	211	6	234	0	234	0	234	0	234	0	234	0	234
	Left-Through	1							1				1				1	
	Through	3	641	7	2358	642	400	2946	3	795	7	2953	3	797	-1	2952	3	797
	Through-Right	0							0				0				0	
	Right	1	89	0	89	89	0	96	1	96	0	96	1	96	0	96	1	96
CRITICAL VOLUMES			North-South: 410	North-South: 410	North-South: 453	North-South: 453	North-South: 453	North-South: 453	North-South: 453	North-South: 453	North-South: 453	North-South: 453	North-South: 453	North-South: 453	North-South: 453	North-South: 453	North-South: 453	North-South: 453
			East-West: 641	East-West: 642	East-West: 795	East-West: 795	East-West: 795	East-West: 795	East-West: 795	East-West: 795	East-West: 797	East-West: 797	East-West: 797	East-West: 797	East-West: 797	East-West: 797	East-West: 797	East-West: 797
			SUM: 1051	SUM: 1052	SUM: 1248	SUM: 1248	SUM: 1248	SUM: 1248	SUM: 1250	SUM: 1250	SUM: 1250	SUM: 1250	SUM: 1250	SUM: 1250	SUM: 1250	SUM: 1250	SUM: 1250	SUM: 1250
VOLUME/CAPACITY (V/C) RATIO:			0.738	0.738	0.876	0.876	0.876	0.876	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877
V/C LESS ATSAC/ATCS ADJUSTMENT:			0.638	0.638	0.776	0.776	0.776	0.776	0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.777
LEVEL OF SERVICE (LOS):			B	B	C	C	C	C	C	C	C	C	C	C	C	C	C	C

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.001	Δv/c after mitigation:	0.001
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street: Central Avenue		Year of Count: 2017		Ambient Growth: (%): 1		Conducted by: GTC		Date: 12/9/2021												
	East-West Street: 4th Street		Projection Year: 2025		Peak Hour: AM		Reviewed by:		Project: 401 S Hewitt												
No. of Phases			3		3		3		3												
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0		0		0		0												
Right Turns: FREE-1, NRTOR-2 or OLA-3?			NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0											
ATSAC-1 or ATSAC+ATCS-2?			EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0											
Override Capacity			2		2		2		2												
			0		0		0		0												
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION						
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume			
NORTHBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Through	351	1	206	0	351	206	3	383	1	231	0	383	1	231	0	383	1	231		
	Through-Right	60	1	60	0	60	60	14	79	0	79	0	79	0	79	0	79	0	79		
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SOUTHBOUND	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Left	21	1	21	0	21	21	0	23	1	23	0	23	1	23	0	23	1	23		
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Through	570	2	285	0	570	285	24	641	2	321	0	641	2	321	0	641	2	321		
EASTBOUND	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Left	19	1	19	0	19	19	0	21	1	21	0	21	1	21	0	21	1	21		
WESTBOUND	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Left-Through-Right	374	2	187	32	406	203	332	737	2	369	32	769	2	385	-5	764	2	382		
CRITICAL VOLUMES	Left-Through-Right	93	1	93	0	93	93	4	105	1	105	0	105	1	105	0	105	1	105		
	Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
CRITICAL VOLUMES		North-South: 285	East-West: 187		SUM: 472		North-South: 285	East-West: 203		SUM: 488		North-South: 321	East-West: 369		SUM: 690		North-South: 321	East-West: 385		SUM: 706	
VOLUME/CAPACITY (V/C) RATIO:				0.331				0.342				0.484				0.495				0.493	
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.231				0.242				0.384				0.395				0.393	
LEVEL OF SERVICE (LOS):				A				A				A				A				A	

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.011	Δv/c after mitigation:	0.009
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #: 3	North-South Street:	Central Avenue		Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021					
	East-West Street:	6th Street		Projection Year:	2025		Peak Hour:	AM		Reviewed by:			Project:	401 S Hewitt					
No. of Phases		4		Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		0		Right Turns: FREE-1, NRTOR-2 or OLA-3?		0		ATSAC-1 or ATSAC+ATCS-2?		2		Override Capacity		0	
NB--		0		SB--		0		NB--		0		SB--		0		NB--		0	
EB--		0		WB--		0		EB--		0		WB--		0		EB--		0	
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION				
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Through	401	1	239	0	401	239	44	478	1	296	0	478	1	296	0	478	1	296
	Through-Right	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0
	Right	77	0	77	0	77	77	30	113	0	113	0	113	0	113	0	113	0	113
SOUTHBOUND	Left	20	1	20	0	20	20	19	41	1	41	0	41	1	41	0	41	1	41
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Through	489	2	245	0	489	245	1	531	2	266	0	531	2	266	0	531	2	266
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EASTBOUND	Left	44	1	44	0	44	44	8	56	1	56	0	56	1	56	0	56	1	56
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Through	304	2	152	16	320	160	189	518	2	259	16	534	2	267	-2	532	2	266
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Right	111	1	111	0	111	111	93	213	1	213	0	213	1	213	0	213	1	213
WESTBOUND	Left	303	1	303	0	303	303	103	431	1	431	0	431	1	431	0	431	1	431
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Right	530	2	282	0	530	282	119	693	2	361	0	693	2	361	0	693	2	361
CRITICAL VOLUMES		North-South: 259 East-West: 455 SUM: 714		North-South: 259 East-West: 463 SUM: 722		North-South: 337 East-West: 690 SUM: 1027		North-South: 337 East-West: 698 SUM: 1035		North-South: 337 East-West: 697 SUM: 1034		North-South: 337 East-West: 697 SUM: 1034		North-South: 337 East-West: 697 SUM: 1034		North-South: 337 East-West: 697 SUM: 1034		North-South: 337 East-West: 697 SUM: 1034	
VOLUME/CAPACITY (V/C) RATIO:		0.519		0.525		0.747		0.753		0.752		0.752		0.752		0.752		0.752	
V/C LESS ATSAC/ATCS ADJUSTMENT:		0.419		0.425		0.647		0.653		0.652		0.652		0.652		0.652		0.652	
LEVEL OF SERVICE (LOS):		A		A		B		B		B		B		B		B		B	

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.006	Δv/c after mitigation:	0.005
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	Central Avenue	Year of Count:	2017	Ambient Growth: (%):	1	Conducted by:	GTC	Date:	12/9/2021											
4	East-West Street:	7th Street	Projection Year:	2025	Peak Hour:	AM	Reviewed by:		Project:	401 S Hewitt											
No. of Phases Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			2 0		2 0		2 0		2 0												
Right Turns: FREE-1, NRTOR-2 or OLA-3?			NB-- 0 SB-- 0 EB-- 0 WB-- 0		NB-- 0 SB-- 0 EB-- 0 WB-- 0		NB-- 0 SB-- 0 EB-- 0 WB-- 0		NB-- 0 SB-- 0 EB-- 0 WB-- 0												
ATSAC-1 or ATSAC+ATCS-2?			2 0		2 0		2 0		2 0												
Override Capacity			0		0		0		0												
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION						
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume			
NORTHBOUND	←→ ←→	Left	66	1	66	0	66	66	0	71	1	71	0	71	1	71	0	71	1	71	
		Left-Through																			
		Through	425	1	281	0	425	281	72	532	1	343	0	532	1	343	0	532	1	343	
		Through-Right	137	1	137	0	137	137	6	154	0	154	0	154	0	154	0	154	0	154	
		Right	137	0	137	0	137	137	6	154	0	154	0	154	0	154	0	154	0	154	
SOUTHBOUND	→← →←	Left	34	0	34	0	34	34	93	130	0	130	0	130	0	130	0	130	0	130	
		Left-Through																			
		Through	708	1	461	0	708	461	95	862	0	774	0	862	0	774	0	862	0	774	
		Through-Right	146	1	461	0	146	461	8	166	0	774	0	166	0	774	0	166	0	774	
		Right	146	0	461	0	146	461	8	166	0	774	0	166	0	774	0	166	0	774	
EASTBOUND	←→ ←→	Left	53	1	53	0	53	53	0	57	1	57	0	57	1	57	0	57	1	57	
		Left-Through																			
		Through	304	1	179	0	304	179	261	590	1	324	0	590	1	324	0	590	1	324	
		Through-Right	54	1	54	0	54	54	0	58	0	58	0	58	0	58	0	58	0	58	
		Right	54	0	54	0	54	54	0	58	0	58	0	58	0	58	0	58	0	58	
WESTBOUND	→← →←	Left	177	1	177	0	177	177	14	206	1	206	0	206	1	206	0	206	1	206	
		Left-Through																			
		Through	732	1	409	3	735	411	331	1124	1	610	3	1127	1	611	-1	1126	1	611	
		Through-Right	86	1	86	0	86	86	2	95	0	95	0	95	0	95	0	95	0	95	
		Right	86	0	86	0	86	86	2	95	0	95	0	95	0	95	0	95	0	95	
CRITICAL VOLUMES		North-South: 527 East-West: 462 SUM: 989	North-South: 527 East-West: 464 SUM: 991	North-South: 845 East-West: 667 SUM: 1512	North-South: 845 East-West: 668 SUM: 1513	North-South: 845 East-West: 668 SUM: 1513	North-South: 845 East-West: 668 SUM: 1513	North-South: 845 East-West: 668 SUM: 1513													
VOLUME/CAPACITY (V/C) RATIO:		0.659	0.661	1.008	1.009	1.009	1.009	1.009													
V/C LESS ATSAC/ATCS ADJUSTMENT:		0.559	0.561	0.908	0.909	0.909	0.909	0.909													
LEVEL OF SERVICE (LOS):		A	A	E	E	E	E	E													

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT	
Change in v/c due to project:	0.001
Significant impacted?	NO
Δv/c after mitigation:	0.001
Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	Alameda Street	Year of Count:	2017	Ambient Growth: (%):	1	Conducted by:	GTC	Date:	12/9/2021									
5	East-West Street:	2nd Street	Projection Year:	2025	Peak Hour:	AM	Reviewed by:		Project:	401 S Hewitt									
No. of Phases Opposed Ø'ing: N/S-1, E/W-2 or Both-3? Right Turns: FREE-1, NRTOR-2 or OLA-3? ATSAC-1 or ATSAC+ATCS-2? Override Capacity			3 0 0 0 2 0	3 0 0 0 2 0	3 0 0 0 2 0	3 0 0 0 2 0	3 0 0 0 2 0	3 0 0 0 2 0	3 0 0 0 2 0										
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND		Left	1	118	0	118	118	0	128	1	128	0	128	1	128	0	128	1	128
		Left-Through	0							0				0				0	
		Through	1	383	14	747	390	332	1126	1	592	14	1140	1	599	-2	1138	1	598
		Through-Right	1							1				1				1	
		Right	0	33	0	33	33	22	58	0	58	0	58	0	58	0	58	0	58
SOUTHBOUND		Left	1	70	0	70	70	0	76	1	76	0	76	1	76	0	76	1	76
		Left-Through	0							0				0				0	
		Through	1	471	64	950	503	195	1154	1	608	64	1218	1	640	-10	1208	1	635
		Through-Right	1							1				1				1	
		Right	0	56	0	56	56	0	61	0	61	0	61	0	61	0	61	0	61
EASTBOUND		Left	1	40	0	40	40	0	43	1	43	0	43	1	43	0	43	1	43
		Left-Through	0							0				0				0	
		Through	1	72	0	72	72	10	88	1	88	0	88	1	88	0	88	1	88
		Through-Right	0							0				0				0	
		Right	1	44	0	103	44	0	112	1	48	0	112	1	48	0	112	1	48
WESTBOUND		Left	1	67	0	67	67	3	76	1	76	0	76	1	76	0	76	1	76
		Left-Through	0							0				0				0	
		Through	0	201	0	130	201	2	143	0	221	0	143	0	221	0	143	0	221
		Through-Right	1							1				1				1	
		Right	0	0	0	71	0	1	78	0	0	0	78	0	0	0	78	0	0
CRITICAL VOLUMES		North-South: 589 East-West: 241 SUM: 830	North-South: 621 East-West: 241 SUM: 862	North-South: 736 East-West: 264 SUM: 1000	North-South: 768 East-West: 264 SUM: 1032	North-South: 763 East-West: 264 SUM: 1027													
VOLUME/CAPACITY (V/C) RATIO:		0.582		0.605		0.702		0.724		0.721									
V/C LESS ATSAC/ATCS ADJUSTMENT:		0.482		0.505		0.602		0.624		0.621									
LEVEL OF SERVICE (LOS):		A		A		B		B		B									

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.022	Δv/c after mitigation:	0.019
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:		Alameda Street		Year of Count:	2017	Ambient Growth: (%):	1	Conducted by:	GTC		Date:	12/9/2021						
	6	East-West Street:		3rd Street/4th Place		Projection Year:	2025	Peak Hour:	AM	Reviewed by:			Project:	401 S Hewitt					
		No. of Phases		3		3		3		3		3		3					
		Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		0		0		0		0		0		0					
		Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0					
		ATSAC-1 or ATSAC+ATCS-2?		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0					
		Override Capacity		2		2		2		2		2		2					
				0		0		0		0		0		0					
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION				
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	1	137	0	137	137	78	226	1	226	0	226	1	226	0	226	1	226	
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Through	2	327	0	653	327	321	1028	2	514	0	1028	2	514	0	1028	2	514	
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SOUTHBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Through	2	433	64	930	465	194	1132	2	566	64	1196	2	598	-10	1186	2	593	
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Right	1	196	0	196	196	3	215	1	215	0	215	1	215	0	215	1	215	
EASTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WESTBOUND	Left	0	151	116	267	267	120	284	0	284	116	400	0	400	-17	383	0	383	
	Left-Through	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	
	Through	2	646	7	2257	680	325	2761	2	819	7	2768	2	853	-1	2767	2	848	
	Through-Right	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	
	Right	0	646	14	195	680	33	229	0	819	14	243	0	853	-2	241	0	848	
		Left-Through-Right		0		0		0		0		0		0		0		0	
		Left-Right		0		0		0		0		0		0		0		0	
CRITICAL VOLUMES		North-South: 570		North-South: 602		North-South: 792		North-South: 824		North-South: 819		North-South: 824		North-South: 819		North-South: 819		North-South: 819	
		East-West: 646		East-West: 680		East-West: 819		East-West: 853		East-West: 819		East-West: 853		East-West: 848		East-West: 848		East-West: 848	
		SUM: 1216		SUM: 1282		SUM: 1611		SUM: 1677		SUM: 1611		SUM: 1677		SUM: 1667		SUM: 1667		SUM: 1667	
VOLUME/CAPACITY (V/C) RATIO:				0.853		0.900		1.131		1.177		1.177		1.170		1.170		1.170	
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.753		0.800		1.031		1.077		1.077		1.070		1.070		1.070	
LEVEL OF SERVICE (LOS):				C		C		F		F		F		F		F		F	

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.046	Δv/c after mitigation:	0.039
Significant impacted?	YES	Fully mitigated?	NO

Level of Service Worksheet (Circular 212 Method)



I/S #: 7	North-South Street:	Alameda Street		Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021					
	East-West Street:	4th Street		Projection Year:	2025		Peak Hour:	AM		Reviewed by:			Project:	401 S Hewitt					
No. of Phases				2				2				2				2			
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0				0				0				0			
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0		
ATSAC-1 or ATSAC+ATCS-2?		EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0		
Override Capacity				2				2				2				2			
				0				0				0				0			
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Left-Through																		
	Through	831	1	443	0	831	507	350	1250	1	719	0	1250	1	783	0	1250	1	773
	Through-Right																		
	Right	54	0	54	128	182	182	129	187	0	187	128	315	0	315	-19	296	0	296
Left-Through-Right																			
Left-Right																			
SOUTHBOUND	Left	102	1	102	160	262	262	20	130	1	130	160	290	1	290	-24	266	1	266
	Left-Through																		
	Through	977	2	489	21	998	499	304	1362	2	681	21	1383	2	692	-3	1380	2	690
	Through-Right																		
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Through-Right																			
Left-Right																			
EASTBOUND	Left	83	0	83	0	83	83	30	120	0	120	0	120	0	120	0	120	0	120
	Left-Through																		
	Through	268	2	117	32	300	128	206	496	2	205	32	528	2	216	-5	523	2	214
	Through-Right																		
	Right	114	1	114	0	114	114	110	233	1	233	0	233	1	233	0	233	1	233
Left-Through-Right																			
Left-Right																			
WESTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through																		
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through-Right																		
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Through-Right																			
Left-Right																			
CRITICAL VOLUMES		North-South:		545	North-South:		769	North-South:		849	North-South:		1073	North-South:		1039	North-South:		1039
		East-West:		117	East-West:		128	East-West:		233	East-West:		233	East-West:		233	East-West:		233
		SUM:		662	SUM:		897	SUM:		1082	SUM:		1306	SUM:		1272	SUM:		1272
VOLUME/CAPACITY (V/C) RATIO:				0.441			0.598			0.721			0.871			0.848			0.848
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.341			0.498			0.621			0.771			0.748			0.748
LEVEL OF SERVICE (LOS):				A			A			B			C			C			C

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.150	Δv/c after mitigation:	0.127
Significant impacted?	YES	Fully mitigated?	NO

Level of Service Worksheet (Circular 212 Method)



I/S #: 8	North-South Street:	Alameda Street		Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021							
	East-West Street:	6th Street		Projection Year:	2025		Peak Hour:	AM		Reviewed by:			Project:	401 S Hewitt							
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				3		3		3		3		3		3		3					
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0				
ATSAC-1 or ATSAC+ATCS-2?		EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0				
Override Capacity				2		2		2		2		2		2		2					
				0		0		0		0		0		0		0					
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION					
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume		
NORTHBOUND	↔	Left	1	72	0	72	72	9	87	1	87	0	87	1	87	0	87	1	87		
	↔	Left-Through	0							0				0				0			
	↔	Through	1	294	96	618	342	196	761	1	488	96	857	1	536	-14	843	1	529		
	↔	Through-Right	1							1				1				1			
	↔	Right	0	65	0	65	65	144	214	0	214	0	214	0	214	0	214	0	214		
SOUTHBOUND	↔	Left	1	47	3	50	50	213	264	1	264	3	267	1	267	-1	266	1	266		
	↔	Left-Through	0							0				0				0			
	↔	Through	1	423	17	807	431	99	954	1	507	17	971	1	516	-3	968	1	514		
	↔	Through-Right	1							1				1				1			
	↔	Right	0	55	0	55	55	0	60	0	60	0	60	0	60	0	60	0	60		
EASTBOUND	↔	Left	1	43	16	59	59	11	58	1	58	16	74	1	74	-2	72	1	72		
	↔	Left-Through	0							0				0				0			
	↔	Through	1	153	0	206	153	184	407	1	279	0	407	1	279	0	407	1	279		
	↔	Through-Right	1							1				1				1			
	↔	Right	0	100	0	100	100	43	151	0	151	0	151	0	151	0	151	0	151		
WESTBOUND	↔	Left	1	128	0	128	128	227	366	1	366	0	366	1	366	0	366	1	366		
	↔	Left-Through	0							0				0				0			
	↔	Through	1	368	0	627	376	212	891	1	589	0	891	1	597	0	891	1	596		
	↔	Through-Right	1							1				1				1			
	↔	Right	0	109	16	125	125	169	287	0	287	16	303	0	303	-2	301	0	301		
CRITICAL VOLUMES		North-South: 495		North-South: 503		North-South: 752		North-South: 803		North-South: 795		East-West: 411		East-West: 435		East-West: 647		East-West: 671		East-West: 668	
		SUM: 906		SUM: 938		SUM: 1399		SUM: 1474		SUM: 1463											
VOLUME/CAPACITY (V/C) RATIO:				0.636		0.658		0.982		1.034						1.027					
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.536		0.558		0.882		0.934						0.927					
LEVEL OF SERVICE (LOS):				A		A		D		E						E					

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.052	Δv/c after mitigation:	0.045
Significant impacted?	YES	Fully mitigated?	NO

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	Alameda Street		Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021				
	East-West Street:	7th Street		Projection Year:	2025		Peak Hour:	AM		Reviewed by:			Project:	401 S Hewitt				
	No. of Phases		3	3		3		3		3		3		3				
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		0	0		0		0		0		0		0				
	Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0 SB-- 0	NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0				
	ATSAC-1 or ATSAC+ATCS-2?		EB-- 0 WB-- 0	EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0				
	Override Capacity		2	2		2		2		2		2		2				
			0	0		0		0		0		0		0				
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	1	109	0	109	109	0	118	1	118	0	118	1	118	0	118	1	118
	Left-Through	0							0				0				0	
	Through	1	357	80	701	397	157	829	1	500	80	909	1	540	-12	897	1	534
	Through-Right	1							1				1				1	
	Right	0	93	0	93	93	69	170	0	170	0	170	0	170	0	170	0	170
SOUTHBOUND	Left	1	127	0	127	127	82	220	1	220	0	220	1	220	0	220	1	220
	Left-Through	0							0				0				0	
	Through	1	519	14	884	527	178	1120	1	707	14	1134	1	716	-2	1132	1	714
	Through-Right	1							1				1				1	
	Right	0	167	3	170	170	113	294	0	294	3	297	0	297	-1	296	0	296
EASTBOUND	Left	1	58	0	58	58	51	114	1	114	0	114	1	114	0	114	1	114
	Left-Through	0							0				0				0	
	Through	1	195	0	309	195	308	643	1	366	0	643	1	366	0	643	1	366
	Through-Right	1							1				1				1	
	Right	0	81	0	81	81	0	88	0	88	0	88	0	88	0	88	0	88
WESTBOUND	Left	1	118	0	118	118	68	196	1	196	0	196	1	196	0	196	1	196
	Left-Through	0							0				0				0	
	Through	1	380	0	661	388	234	950	1	595	0	950	1	603	0	950	1	602
	Through-Right	1							1				1				1	
	Right	0	98	16	114	114	134	240	0	240	16	256	0	256	-2	254	0	254
		0							0				0				0	
		0							0				0				0	
CRITICAL VOLUMES			North-South: 628 East-West: 438 SUM: 1066	North-South: 636 East-West: 446 SUM: 1082	North-South: 825 East-West: 709 SUM: 1534	North-South: 834 East-West: 717 SUM: 1551	North-South: 832 East-West: 716 SUM: 1548											
VOLUME/CAPACITY (V/C) RATIO:			0.748	0.759	1.076	1.088	1.086											
V/C LESS ATSAC/ATCS ADJUSTMENT:			0.648	0.659	0.976	0.988	0.986											
LEVEL OF SERVICE (LOS):			B	B	E	E	E											

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project: **0.012** Δv/c after mitigation: **0.010**
 Significant impacted? **YES** Fully mitigated? **NO**

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	Alameda Street	Year of Count:	2017	Ambient Growth: (%):	1	Conducted by:	GTC	Date:	12/9/2021										
11	East-West Street:	I-10 EB Ramps	Projection Year:	2025	Peak Hour:	AM	Reviewed by:		Project:	401 S Hewitt										
No. of Phases Opposed Ø'ing: N/S-1, E/W-2 or Both-3? Right Turns: FREE-1, NRTOR-2 or OLA-3? ATSAC-1 or ATSAC+ATCS-2? Override Capacity			4 0 3 0 2 0	4 0 3 0 2 0	4 0 3 0 2 0	4 0 3 0 2 0	4 0 3 0 2 0	4 0 3 0 2 0	4 0 3 0 2 0	4 0 3 0 2 0										
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION					
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume		
NORTHBOUND	↔	Left	371	1	371	0	371	371	0	402	1	402	0	402	1	402	0	402	1	402
	↔	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Through	1053	1	531	32	1085	547	46	1186	1	598	32	1218	1	614	-5	1213	1	611
	↔	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Right	8	0	8	0	8	8	0	9	0	9	0	9	0	9	0	9	0	9
SOUTHBOUND	↔	Left	1	1	1	0	1	1	0	1	1	1	0	1	1	1	0	1	1	1
	↔	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Through	814	2	407	7	821	411	53	934	2	467	7	941	2	471	-1	940	2	470
	↔	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Right	428	1	151	0	428	119	27	490	1	159	0	490	1	127	0	490	1	132
EASTBOUND	↔	Left	277	1	277	32	309	309	31	331	1	331	32	363	1	363	-5	358	1	358
	↔	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Right	530	1	159	0	530	159	0	574	1	172	0	574	1	172	0	574	1	172
WESTBOUND	↔	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Through	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0
	↔	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Right	2	0	0	0	2	0	0	0	0	0	0	2	0	0	0	2	0	0
CRITICAL VOLUMES			North-South: 778 East-West: 277 SUM: 1055	North-South: 782 East-West: 309 SUM: 1091	North-South: 869 East-West: 331 SUM: 1200	North-South: 873 East-West: 363 SUM: 1236	North-South: 872 East-West: 358 SUM: 1230													
VOLUME/CAPACITY (V/C) RATIO:			0.767	0.793	0.873	0.899	0.895													
V/C LESS ATSAC/ATCS ADJUSTMENT:			0.667	0.693	0.773	0.799	0.795													
LEVEL OF SERVICE (LOS):			B	B	C	C	C													

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.026	Δv/c after mitigation:	0.022
Significant impacted?	NO	Fully mitigated?	N/A



Level of Service Worksheet (Circular 212 Method)



I/S #: 12	North-South Street:	Vignes Street		Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021					
	East-West Street:	1st Street		Projection Year:	2025		Peak Hour:	AM		Reviewed by:			Project:	401 S Hewitt					
No. of Phases Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				3				3				3				3			
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0		
ATSAC-1 or ATSAC+ATCS-2?		EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0		
Override Capacity				2				2				2				2			
				0				0				0				0			
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	↔	5	0	5	0	5	5	0	5	0	5	0	5	0	5	0	5	0	5
	↔	20	0	50	0	20	50	0	22	0	69	0	22	0	69	0	22	0	69
	↔	25	0	0	0	25	0	15	42	0	0	0	42	0	0	0	42	0	0
	↔	1	1	0	0	0	0	1	1	1	0	0	1	1	1	0	1	1	1
	↔	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTHBOUND	↔	27	0	27	0	27	27	0	29	0	29	0	29	0	29	0	29	0	29
	↔	18	0	67	0	18	67	0	19	0	72	0	19	0	72	0	19	0	72
	↔	22	0	0	0	22	0	0	24	0	0	0	24	0	0	0	24	0	0
	↔	1	1	0	0	0	0	1	1	1	0	0	1	1	1	0	1	1	1
	↔	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EASTBOUND	↔	22	0	22	0	22	22	0	24	0	24	0	24	0	24	0	24	0	24
	↔	116	1	102	0	116	102	22	148	1	146	0	148	1	146	0	148	1	146
	↔	5	1	5	0	5	5	0	5	1	5	0	5	1	5	0	5	1	5
	↔	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WESTBOUND	↔	87	0	87	0	87	87	0	94	0	94	0	94	0	94	0	94	0	94
	↔	822	0	540	0	822	540	4	894	0	586	0	894	0	586	0	894	0	586
	↔	170	0	540	0	170	540	0	184	0	586	0	184	0	586	0	184	0	586
	↔	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRITICAL VOLUMES		North-South: 77	East-West: 642	SUM: 719	North-South: 77	East-West: 642	SUM: 719	North-South: 98	East-West: 732	SUM: 830	North-South: 98	East-West: 732	SUM: 830	North-South: 98	East-West: 732	SUM: 830	North-South: 98	East-West: 732	SUM: 830
VOLUME/CAPACITY (V/C) RATIO:				0.505			0.505			0.582			0.582			0.582			0.582
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.405			0.405			0.482			0.482			0.482			0.482
LEVEL OF SERVICE (LOS):				A			A			A			A			A			A

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.000	Δv/c after mitigation:	0.000
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #: 13	North-South Street:	Merrick Street/Molino Street		Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021					
	East-West Street:	4th Street		Projection Year:	2025		Peak Hour:	AM		Reviewed by:			Project:	401 S Hewitt					
No. of Phases		3		3		2		2		2		2		2					
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		1		1		0		0		0		0		0					
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0				
ATSAC-1 or ATSAC+ATCS-2?		EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0				
Override Capacity		2		2		2		2		2		2		2					
		0		0		0		0		0		0		0					
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	28	0	28	0	28	28	1	31	0	31	0	31	0	31	0	31	0	31
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	4	0	33	0	4	33	0	4	0	354	0	4	0	354	0	4	0	354
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Right	1	0	0	0	1	0	318	319	0	0	0	319	0	0	0	319	0	0
Left-Through-Right	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0
Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTHBOUND	Left	50	1	50	0	50	50	0	54	0	54	0	54	0	54	0	54	0	54
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	0	0	0	0	0	0	0	0	0	76	0	0	0	76	0	0	0	76
	Through-Right	20	1	20	0	20	20	0	22	0	0	0	22	0	0	0	22	0	0
	Right	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EASTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	249	1	149	28	277	163	22	292	1	172	28	320	1	186	-4	316	1	184
	Through-Right	48	0	48	0	48	48	0	52	0	52	0	52	0	52	0	52	0	52
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WESTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	2528	2	871	96	2624	903	469	3206	2	1099	96	3302	2	1131	-14	3288	2	1126
	Through-Right	84	1	84	0	84	84	0	91	1	91	0	91	1	91	0	91	1	91
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRITICAL VOLUMES		North-South: 83		North-South: 83		North-South: 83		North-South: 408		North-South: 408		North-South: 408		North-South: 408		North-South: 408		North-South: 408	
		East-West: 871		East-West: 903		East-West: 903		East-West: 1099		East-West: 1099		East-West: 1131		East-West: 1131		East-West: 1126		East-West: 1126	
		SUM: 954		SUM: 986		SUM: 986		SUM: 1507		SUM: 1507		SUM: 1539		SUM: 1539		SUM: 1534		SUM: 1534	
VOLUME/CAPACITY (V/C) RATIO:		0.669		0.692		0.692		1.005		1.005		1.026		1.026		1.023		1.023	
V/C LESS ATSAC/ATCS ADJUSTMENT:		0.569		0.592		0.592		0.905		0.905		0.926		0.926		0.923		0.923	
LEVEL OF SERVICE (LOS):		A		A		A		E		E		E		E		E		E	

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.021	Δv/c after mitigation:	0.018
Significant impacted?	YES	Fully mitigated?	NO

Level of Service Worksheet (Circular 212 Method)



I/S #: 14	North-South Street: Mateo Street	Year of Count: 2017	Ambient Growth: (%): 1	Conducted by: GTC	Date: 12/9/2021													
	East-West Street: 6th Street	Projection Year: 2025	Peak Hour: AM	Reviewed by:	Project: 401 S Hewitt													
No. of Phases: 2 Opposed Ø'ing: N/S-1, E/W-2 or Both-3? 0 Right Turns: FREE-1, NRTOR-2 or OLA-3? NB-- 0 SB-- 0 ATSC-1 or ATSC+ATCS-2? EB-- 0 WB-- 0 Override Capacity 2 2 0 0		2 0 0 0 0 0	2 0 0 0 0 0	2 0 0 0 0 0	2 0 0 0 0 0													
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	↔	Left	45	0	45	45	29	78	0	78	0	78	0	78	0	78	0	78
	↔	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Through	76	0	128	128	20	102	0	188	0	102	0	188	0	102	0	188
	↔	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Right	7	0	0	0	0	0	8	0	0	8	0	0	0	8	0	0
SOUTHBOUND	↔	Left	21	0	21	21	22	45	0	45	0	45	0	45	0	45	0	45
	↔	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Through	205	0	258	261	28	250	0	373	3	253	0	376	-1	252	0	375
	↔	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Right	32	0	0	0	0	43	78	0	0	0	78	0	0	0	78	0
EASTBOUND	↔	Left	47	1	47	47	24	75	1	75	0	75	1	75	0	75	1	75
	↔	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Through	159	1	132	134	81	253	1	200	3	256	1	202	-1	255	1	201
	↔	Through-Right	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	↔	Right	105	0	105	105	33	147	0	147	0	147	0	147	0	147	0	147
WESTBOUND	↔	Left	41	1	41	41	0	44	1	44	0	44	1	44	0	44	1	44
	↔	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Through	746	1	412	420	66	874	1	485	16	890	1	493	-2	888	1	492
	↔	Through-Right	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	↔	Right	77	0	77	77	13	96	0	96	0	96	0	96	0	96	0	96
CRITICAL VOLUMES		North-South: 303 East-West: 459 SUM: 762	North-South: 306 East-West: 467 SUM: 773	North-South: 451 East-West: 560 SUM: 1011	North-South: 454 East-West: 568 SUM: 1022	North-South: 453 East-West: 567 SUM: 1020												
VOLUME/CAPACITY (V/C) RATIO:		0.508	0.515	0.674	0.681	0.680												
V/C LESS ATSC/ATCS ADJUSTMENT:		0.408	0.415	0.574	0.581	0.580												
LEVEL OF SERVICE (LOS):		A	A	A	A	A												

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.007	Δv/c after mitigation:	0.006
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	Mateo Street		Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021					
	East-West Street:	7th Street		Projection Year:	2025		Peak Hour:	AM		Reviewed by:			Project:	401 S Hewitt					
No. of Phases																			
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?																			
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0				
ATSAC-1 or ATSAC+ATCS-2?		EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0				
Override Capacity																			
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	72	0	72	0	72	72	562	640	0	640	0	640	0	640	0	640	0	640
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	112	0	229	0	112	229	21	142	0	1014	0	142	0	1014	0	142	0	1014
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Right	45	0	0	0	45	0	183	232	0	0	0	232	0	0	0	232	0	0
	Left-Through-Right		1							1				1				1	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	35	0	35	0	35	35	33	71	0	71	0	71	0	71	0	71	0	71
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	179	0	259	3	182	262	23	217	0	341	3	220	0	344	-1	219	0	343
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Right	45	0	0	0	45	0	4	53	0	0	0	53	0	0	0	53	0	0
	Left-Through-Right		1							1				1				1	
	Left-Right		0							0				0				0	
EASTBOUND	Left	26	1	26	0	26	26	3	31	1	31	0	31	1	31	0	31	1	31
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	346	1	210	0	346	210	200	575	1	363	0	575	1	363	0	575	1	363
	Through-Right	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
	Right	73	0	73	0	73	73	71	150	0	150	0	150	0	150	0	150	0	150
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	94	1	94	0	94	94	114	216	1	216	0	216	1	216	0	216	1	216
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	752	1	398	16	768	406	227	1041	1	558	16	1057	1	566	-2	1055	1	565
	Through-Right	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
	Right	44	0	44	0	44	44	27	75	0	75	0	75	0	75	0	75	0	75
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
CRITICAL VOLUMES		North-South: 331		North-South: 334		North-South: 1085		North-South: 1085		North-South: 1085		North-South: 1085		North-South: 1085					
		East-West: 424		East-West: 432		East-West: 589		East-West: 589		East-West: 597		East-West: 597		East-West: 596					
		SUM: 755		SUM: 766		SUM: 1674		SUM: 1674		SUM: 1682		SUM: 1682		SUM: 1681					
VOLUME/CAPACITY (V/C) RATIO:				0.503		0.511		1.116		1.121		1.121		1.121					
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.403		0.411		1.016		1.021		1.021		1.021					
LEVEL OF SERVICE (LOS):				A		A		F		F		F		F					

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.005	Δv/c after mitigation:	0.005
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #: 16	North-South Street:	Santa Fe Avenue		Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021						
	East-West Street:	7th Street		Projection Year:	2025		Peak Hour:	AM		Reviewed by:			Project:	401 S Hewitt						
No. of Phases			4		4		4		4		4		4		4		4			
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0		0		0		0		0		0		0		0			
Right Turns: FREE-1, NRTOR-2 or OLA-3?			NB-- 3	SB-- 0	NB-- 3	SB-- 0	NB-- 3	SB-- 0	NB-- 3	SB-- 0	NB-- 3	SB-- 0	NB-- 3	SB-- 0	NB-- 3	SB-- 0	NB-- 3	SB-- 0		
ATSAC-1 or ATSAC+ATCS-2?			EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0		
Override Capacity			2		2		2		2		2		2		2		2			
			0		0		0		0		0		0		0		0			
MOVEMENT			EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
			Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	←	Left	131	1	131	0	131	131	65	207	1	207	0	207	1	207	0	207	1	207
		Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Through	263	1	263	0	263	263	102	387	1	387	0	387	1	387	0	387	1	387
		Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Right	143	1	0	0	143	0	3	158	1	0	0	158	1	0	0	158	1	0
	↕	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTHBOUND	→	Left	32	0	32	0	32	32	17	52	0	52	0	52	0	52	0	52	0	52
		Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Through	163	0	207	0	163	207	59	236	0	401	0	236	0	401	0	236	0	401
		Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Right	12	0	0	0	12	0	100	113	0	0	0	113	0	0	0	113	0	0
	↕	Left-Through-Right	0	1	0	0	0	1	0	1	1	0	0	1	1	0	0	1	1	0
		Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EASTBOUND	←	Left	12	1	12	0	12	12	151	164	1	164	0	164	1	164	0	164	1	164
		Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Through	325	1	216	0	325	216	415	767	1	461	0	767	1	461	0	767	1	461
		Through-Right	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
		Right	107	0	107	0	107	107	39	155	0	155	0	155	0	155	0	155	0	155
	↕	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WESTBOUND	→	Left	215	1	215	0	215	215	0	233	1	233	0	233	1	233	0	233	1	233
		Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Through	725	1	429	14	739	436	428	1213	1	704	14	1227	1	711	-2	1225	1	710
		Through-Right	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
		Right	133	0	133	0	133	133	51	195	0	195	0	195	0	195	0	195	0	195
	↕	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRITICAL VOLUMES			North-South: 338		North-South: 338		North-South: 608		North-South: 608		North-South: 608		North-South: 608		North-South: 608		North-South: 608		North-South: 608	
			East-West: 441		East-West: 448		East-West: 868		East-West: 868		East-West: 875		East-West: 875		East-West: 874		East-West: 874		East-West: 874	
			SUM: 779		SUM: 786		SUM: 1476		SUM: 1476		SUM: 1483		SUM: 1483		SUM: 1482		SUM: 1482		SUM: 1482	
VOLUME/CAPACITY (V/C) RATIO:				0.567		0.572		1.073		1.079		1.079		1.078		1.078		1.078		1.078
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.467		0.472		0.973		0.979		0.979		0.978		0.978		0.978		0.978
LEVEL OF SERVICE (LOS):				A		A		E		E		E		E		E		E		E

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.006	Δv/c after mitigation:	0.005
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	Santa Fe Avenue		Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021					
	East-West Street:	8th Street		Projection Year:	2025		Peak Hour:	AM		Reviewed by:			Project:	401 S Hewitt					
No. of Phases																			
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?																			
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0		
ATSAC-1 or ATSAC+ATCS-2?		EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0		
Override Capacity																			
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	↔	Left	249	0	249	0	249	249	0	270	0	270	0	270	0	270	0	270	
	↔	Left-Through		1					1		1			1			1		
	↔	Through	537	0	527	0	537	527	163	744	0	765	0	744	0	765	0	744	
	↔	Through-Right		1					1		1			1			1		
	↔	Right	19	0	527	0	19	527	0	21	0	0	0	21	0	0	0	21	0
SOUTHBOUND	↔	Left	14	0	14	0	14	14	0	15	0	15	0	15	0	15	0	15	
	↔	Left-Through		1					1		1			1			1		
	↔	Through	354	0	288	0	354	288	87	470	0	376	0	470	0	376	0	470	
	↔	Through-Right		1					1		1			1			1		
	↔	Right	194	0	288	0	194	288	11	221	0	376	0	221	0	376	0	221	
EASTBOUND	↔	Left	25	0	25	0	25	25	6	33	0	33	0	33	0	33	0	33	
	↔	Left-Through		0					0		0			0			0		
	↔	Through	12	0	353	0	12	353	0	13	0	388	0	13	0	388	0	13	
	↔	Through-Right		0					0		0			0			0		
	↔	Right	316	0	0	0	316	0	0	342	0	0	0	342	0	0	0	342	
WESTBOUND	↔	Left	7	0	7	0	7	7	0	8	0	8	0	8	0	8	0	8	
	↔	Left-Through		0					0		0			0			0		
	↔	Through	7	0	32	0	7	32	0	8	0	35	0	8	0	35	0	8	
	↔	Through-Right		0					0		0			0			0		
	↔	Right	18	0	0	0	18	0	0	19	0	0	0	19	0	0	0	19	
CRITICAL VOLUMES		North-South:	541		North-South:	541		North-South:	780		North-South:	780		North-South:	780		North-South:	780	
		East-West:	360		East-West:	360		East-West:	396		East-West:	396		East-West:	396		East-West:	396	
		SUM:	901		SUM:	901		SUM:	1176		SUM:	1176		SUM:	1176		SUM:	1176	
VOLUME/CAPACITY (V/C) RATIO:																			
V/C LESS ATSAC/ATCS ADJUSTMENT:																			
LEVEL OF SERVICE (LOS):																			

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.000	Δv/c after mitigation:	0.000
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	US 101 NB Off-Ramp		Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021													
	East-West Street:	4th Street		Projection Year:	2025		Peak Hour:	AM		Reviewed by:			Project:	401 S Hewitt													
No. of Phases																											
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?																											
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0												
ATSAC-1 or ATSAC+ATCS-2?		EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0												
Override Capacity																											
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION											
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume								
NORTHBOUND	Left	1185	1	605	48	1233	629	163	1446	1	737	48	1494	1	761	-7	1487	1	757								
	Left-Through		0	0						0	0			0	0			0	0								
	Through	1	0	605	0	1	629	0	1	0	737	0	1	0	761	0	1	0	757								
	Through-Right		0	0						0	0			0	0			0	0								
	Right	24	0	0	0	24	0	0	26	0	0	0	26	0	0	0	26	0	0								
Left-Through-Right		1								1				1				1									
Left-Right		0								0				0				0									
SOUTHBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
	Left-Through		0	0						0				0				0									
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
	Through-Right		0	0						0				0				0									
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Left-Through-Right		0								0				0				0									
Left-Right		0								0				0				0									
EASTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
	Left-Through		0	0						0				0				0									
	Through	315	2	158	10	325	163	222	563	2	282	10	573	2	287	-2	571	2	286								
	Through-Right		0	0						0				0				0									
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Left-Through-Right		0								0				0				0									
Left-Right		0								0				0				0									
WESTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
	Left-Through		0	0						0				0				0									
	Through	1731	2	577	48	1779	593	229	2103	2	701	48	2151	2	717	-7	2144	2	715								
	Through-Right		1							1				1				1									
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Left-Through-Right		0								0				0				0									
Left-Right		0								0				0				0									
CRITICAL VOLUMES		North-South: 605		North-South: 629		North-South: 737		North-South: 761		North-South: 757		North-South: 715		North-South: 1472		East-West: 577		East-West: 593		East-West: 701		East-West: 717		East-West: 715		East-West: 1472	
		SUM: 1182		SUM: 1222		SUM: 1438		SUM: 1478		SUM: 1472		SUM: 1472		SUM: 1472		SUM: 1472		SUM: 1472		SUM: 1472		SUM: 1472		SUM: 1472		SUM: 1472	
VOLUME/CAPACITY (V/C) RATIO:				0.788		0.815		0.959		0.985		0.985		0.981		0.981		0.981		0.981		0.981		0.981		0.981	
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.688		0.715		0.859		0.885		0.885		0.881		0.881		0.881		0.881		0.881		0.881		0.881	
LEVEL OF SERVICE (LOS):				B		C		D		D		D		D		D		D		D		D		D		D	

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.026	Δv/c after mitigation:	0.022
Significant impacted?	YES	Fully mitigated?	NO

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:		Boyle Street		Year of Count:		2017		Ambient Growth: (%)		1		Conducted by:		GTC		Date:		12/9/2021	
	19	East-West Street:		4th Street		Projection Year:		2025		Peak Hour:		AM		Reviewed by:		Project:		401 S Hewitt		
No. of Phases			3			3			3			3			3					
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0			0			0					
Right Turns: FREE-1, NRTOR-2 or OLA-3?			NB-- 0 SB-- 0			NB-- 0 SB-- 0			NB-- 0 SB-- 0			NB-- 0 SB-- 0			NB-- 0 SB-- 0					
ATSAC-1 or ATSAC+ATCS-2?			EB-- 0 WB-- 0			EB-- 0 WB-- 0			EB-- 0 WB-- 0			EB-- 0 WB-- 0			EB-- 0 WB-- 0					
Override Capacity			2			2			2			2			2					
			0			0			0			0			0					
MOVEMENT			EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
			Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	↕	Left	200	1	200	0	200	200	0	217	1	217	0	217	1	217	0	217	1	217
		Left-Through		0							0				0				0	
		Through	357	0	427	0	357	427	0	387	0	463	0	387	0	463	0	387	0	463
		Through-Right		1							1				1				1	
		Right	70	0	0	0	70	0	0	76	0	0	0	76	0	0	0	76	0	0
		Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0			
SOUTHBOUND	↕	Left	117	1	117	0	117	117	0	127	1	127	0	127	1	127	0	127	1	127
		Left-Through		0							0				0				0	
		Through	351	0	514	0	351	514	0	380	0	557	0	380	0	557	0	380	0	557
		Through-Right		1							1				1				1	
		Right	163	0	0	0	163	0	0	177	0	0	0	177	0	0	0	177	0	0
		Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0			
EASTBOUND	↕	Left	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0
		Left-Through		0							0				0				0	
		Through	295	1	172	9	304	176	222	541	1	297	9	550	1	301	-1	549	1	301
		Through-Right		1							1				1				1	
		Right	48	0	48	0	48	48	0	52	0	52	0	52	0	52	0	52	0	52
		Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0			
WESTBOUND	↕	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Left-Through		0							0				0				0	
		Through	1255	2	453	48	1303	469	229	1588	2	567	48	1636	2	583	-7	1629	2	580
		Through-Right		1							1				1				1	
		Right	103	0	103	0	103	103	0	112	0	112	0	112	0	112	0	112	0	112
		Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0			
CRITICAL VOLUMES			North-South: 714			North-South: 714			North-South: 774				North-South: 774				North-South: 774			
			East-West: 453			East-West: 469			East-West: 567				East-West: 583				East-West: 580			
			SUM: 1167			SUM: 1183			SUM: 1341				SUM: 1357				SUM: 1354			
VOLUME/CAPACITY (V/C) RATIO:			0.819			0.830			0.941				0.952				0.950			
V/C LESS ATSAC/ATCS ADJUSTMENT:			0.719			0.730			0.841				0.852				0.850			
LEVEL OF SERVICE (LOS):			C			C			D				D				D			

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.011	Δv/c after mitigation:	0.009
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #: 20	North-South Street:	Boyle Street		Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021					
	East-West Street:	Whittier Boulevard		Projection Year:	2025		Peak Hour:	AM		Reviewed by:			Project:	401 S Hewitt					
No. of Phases Opposed Ø'ing: N/S-1, E/W-2 or Both-3?						3			3			3					3		
Right Turns: FREE-1, NRTOR-2 or OLA-3?				NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0
ATSAC-1 or ATSAC+ATCS-2?				EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0
Override Capacity						2			2			2			2			2	
						0			0			0			0			0	

MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	1	238	0	238	238	0	258	1	258	0	258	1	258	0	258	1	258
	Left-Through	0							0				0				0	
	Through	1	316	0	520	316	0	563	1	342	0	563	1	342	0	563	1	342
	Through-Right	1							1				1				1	
	Right	0	112	0	112	112	0	121	0	121	0	121	0	121	0	121	0	121
	Left-Through-Right	0							0				0				0	
Left-Right	0							0				0				0		
SOUTHBOUND	Left	1	95	0	95	95	0	103	1	103	0	103	1	103	0	103	1	103
	Left-Through	0							0				0				0	
	Through	1	254	0	391	254	0	423	1	275	0	423	1	275	0	423	1	275
	Through-Right	1							1				1				1	
	Right	0	117	0	117	117	0	127	0	127	0	127	0	127	0	127	0	127
	Left-Through-Right	0							0				0				0	
Left-Right	0							0				0				0		
EASTBOUND	Left	1	27	0	27	27	0	29	1	29	0	29	1	29	0	29	1	29
	Left-Through	0							0				0				0	
	Through	1	89	3	113	91	36	155	1	115	3	158	1	116	-1	157	1	116
	Through-Right	1							1				1				1	
	Right	0	68	0	68	68	0	74	0	74	0	74	0	74	0	74	0	74
	Left-Through-Right	0							0				0				0	
Left-Right	0							0				0				0		
WESTBOUND	Left	1	201	0	201	201	0	218	1	218	0	218	1	218	0	218	1	218
	Left-Through	0							0				0				0	
	Through	1	626	16	1102	634	79	1255	1	718	16	1271	1	726	-2	1269	1	725
	Through-Right	1							1				1				1	
	Right	0	166	0	166	166	0	180	0	180	0	180	0	180	0	180	0	180
	Left-Through-Right	0							0				0				0	
Left-Right	0							0				0				0		
CRITICAL VOLUMES		North-South:	492	North-South:	492	492	North-South:	533	533	North-South:	533	533	North-South:	533	North-South:	533	533	
		East-West:	653	East-West:	661	661	East-West:	747	747	East-West:	755	755	East-West:	754	East-West:	754	754	
		SUM:	1145	SUM:	1153	1153	SUM:	1280	1280	SUM:	1288	1288	SUM:	1287	SUM:	1287	1287	
VOLUME/CAPACITY (V/C) RATIO:			0.804		0.809	0.809		0.898	0.898		0.904	0.904		0.903		0.903	0.903	
V/C LESS ATSAC/ATCS ADJUSTMENT:			0.704		0.709	0.709		0.798	0.798		0.804	0.804		0.803		0.803	0.803	
LEVEL OF SERVICE (LOS):			C		C	C		C	C		D	D		D		D	D	

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.006	Δv/c after mitigation:	0.005
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	I-5 Northbound Ramps	Year of Count:	2017	Ambient Growth: (%):	1	Conducted by:	GTC	Date:	12/9/2021
21	East-West Street:	4th Street	Projection Year:	2025	Peak Hour:	AM	Reviewed by:		Project:	401 S Hewitt
No. of Phases		3							3	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		0							0	
Right Turns: FREE-1, NRTOR-2 or OLA-3?		0							0	
ATSAC-1 or ATSAC+ATCS-2?		2							2	
Override Capacity		0							0	

MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	1	275	0	275	275	15	313	1	313	0	313	1	313	0	313	1	313
	Left-Through	0							0				0				0	
	Through	0	106	0	46	106	0	50	0	115	0	50	0	115	0	50	0	115
	Through-Right	1							1				1				1	
	Right	0	0	0	60	0	0	65	0	0	0	65	0	0	0	65	0	0
SOUTHBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through	0							0				0				0	
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through-Right	0							0				0				0	
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EASTBOUND	Left	1	240	6	246	246	143	403	1	403	6	409	1	409	-1	408	1	408
	Left-Through	0							0				0				0	
	Through	2	332	3	666	333	56	774	2	387	3	777	2	389	-1	776	2	388
	Through-Right	0							0				0				0	
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WESTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through	0							0				0				0	
	Through	1	669	16	1023	677	43	1133	1	745	16	1149	1	753	-2	1147	1	752
	Through-Right	1							1				1				1	
	Right	0	330	0	330	330	0	357	0	357	0	357	0	357	0	357	0	357
CRITICAL VOLUMES		North-South: 275 East-West: 909 SUM: 1184	North-South: 275 East-West: 923 SUM: 1198	North-South: 313 East-West: 1148 SUM: 1461	North-South: 313 East-West: 1162 SUM: 1475	North-South: 313 East-West: 1160 SUM: 1473												
VOLUME/CAPACITY (V/C) RATIO:		0.831		0.841		1.025		1.035		1.034								
V/C LESS ATSAC/ATCS ADJUSTMENT:		0.731		0.741		0.925		0.935		0.934								
LEVEL OF SERVICE (LOS):		C		C		E		E		E								

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.010	Δv/c after mitigation:	0.009
Significant impacted?	YES	Fully mitigated?	YES

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	Soto Street	Year of Count:	2017	Ambient Growth: (%):	1	Conducted by:	GTC	Date:	12/9/2021									
22	East-West Street:	4th Street	Projection Year:	2025	Peak Hour:	AM	Reviewed by:		Project:	401 S Hewitt									
No. of Phases Opposed Ø'ing: N/S-1, E/W-2 or Both-3? Right Turns: FREE-1, NRTOR-2 or OLA-3? ATSAC-1 or ATSAC+ATCS-2? Override Capacity			3 0 NB-- 0 SB-- 3 EB-- 0 WB-- 0 2 0			3 0 NB-- 0 SB-- 3 EB-- 0 WB-- 0 2 0			3 0 NB-- 0 SB-- 3 EB-- 0 WB-- 0 2 0			3 0 NB-- 0 SB-- 3 EB-- 0 WB-- 0 2 0							
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	156	1	156	0	156	156	0	169	1	169	0	169	1	169	0	169	1	169
	Left-Through		0							0				0				0	
	Through	517	2	259	0	517	259	0	560	2	280	0	560	2	280	0	560	2	280
	Through-Right		0							0				0				0	
	Right	82	1	8	0	82	8	0	89	1	9	0	89	1	9	0	89	1	9
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	134	1	134	0	134	134	0	145	1	145	0	145	1	145	0	145	1	145
	Left-Through		0							0				0				0	
	Through	611	2	306	0	611	306	0	662	2	331	0	662	2	331	0	662	2	331
	Through-Right		0							0				0				0	
	Right	143	1	95	0	143	95	0	155	1	103	0	155	1	103	0	155	1	103
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	48	1	48	0	48	48	0	52	1	52	0	52	1	52	0	52	1	52
	Left-Through		0							0				0				0	
	Through	764	1	436	3	767	437	7	834	1	475	3	837	1	477	-1	836	1	476
	Through-Right		1							1				1				1	
	Right	107	0	107	0	107	107	0	116	0	116	0	116	0	116	0	116	0	116
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	149	1	149	0	149	149	0	161	1	161	0	161	1	161	0	161	1	161
	Left-Through		0							0				0				0	
	Through	1098	1	581	16	1114	589	19	1208	1	639	16	1224	1	647	-2	1222	1	646
	Through-Right		1							1				1				1	
	Right	64	0	64	0	64	64	0	69	0	69	0	69	0	69	0	69	0	69
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
CRITICAL VOLUMES		North-South: 462 East-West: 629 SUM: 1091		North-South: 462 East-West: 637 SUM: 1099		North-South: 500 East-West: 691 SUM: 1191		North-South: 500 East-West: 699 SUM: 1199		North-South: 500 East-West: 698 SUM: 1198									
VOLUME/CAPACITY (V/C) RATIO:		0.766		0.771		0.836		0.841		0.841									
V/C LESS ATSAC/ATCS ADJUSTMENT:		0.666		0.671		0.736		0.741		0.741									
LEVEL OF SERVICE (LOS):		B		B		C		C		C									

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.005	Δv/c after mitigation:	0.005
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	I-5 Southbound Ramps		Year of Count:	2017	Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021					
	East-West Street:	4th Street		Projection Year:	2025	Peak Hour:	AM		Reviewed by:			Project:	401 S Hewitt					
	No. of Phases		0		0		3		3		3		3					
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		0		0		0		0		0		0					
	Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0				
	ATSAC-1 or ATSAC+ATCS-2?		EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0				
	Override Capacity		0		0		2		2		2		2					
			0		0		0		0		0		0					
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTHBOUND	Left	92	0	0	0	92	0	100	1	100	0	100	1	100	0	100	1	100
	Left-Through	3	0	0	0	3	0	3	0	488	0	3	0	520	0	3	0	515
	Through	385	0	0	32	417	68	485	0	0	32	517	0	0	-5	512	0	0
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EASTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through	438	0	0	9	447	93	567	2	284	9	576	2	288	-1	575	2	288
	Through	69	0	0	0	69	19	94	1	94	0	94	1	94	0	94	1	94
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WESTBOUND	Left	140	0	0	0	140	1	153	1	153	0	153	1	153	0	153	1	153
	Left-Through	1693	0	0	16	1709	34	1867	2	934	16	1883	2	942	-2	1881	2	941
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRITICAL VOLUMES		North-South: 0	East-West: 0	SUM: 0	North-South: 0	East-West: 0	SUM: 0	North-South: 488	East-West: 934	SUM: 1422	North-South: 520	East-West: 942	SUM: 1462	North-South: 515	East-West: 941	SUM: 1456		
VOLUME/CAPACITY (V/C) RATIO:		0.000		0.000		0.998		1.026		1.022								
V/C LESS ATSAC/ATCS ADJUSTMENT:		0.000		0.000		0.898		0.926		0.922								
LEVEL OF SERVICE (LOS):		A		A		D		E		E								

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.028	Δv/c after mitigation:	0.024
Significant impacted?	YES	Fully mitigated?	NO

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	Central Avenue	Year of Count:	2017	Ambient Growth: (%):	1	Conducted by:	GTC	Date:	12/9/2021									
1	East-West Street:	3rd Street	Projection Year:	2025	Peak Hour:	PM	Reviewed by:		Project:	401 S Hewitt									
No. of Phases		3	3		3		3		3										
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		0	0		0		0		0										
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0 SB-- 0	NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0										
ATSAC-1 or ATSAC+ATCS-2?		EB-- 0 WB-- 0	EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0										
Override Capacity		2	2		2		2		2										
		0	0		0		0		0										
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION				
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	301	1	301	0	301	301	0	326	1	326	0	326	1	326	0	326	1	326
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	777	2	389	0	777	389	16	857	2	429	0	857	2	429	0	857	2	429
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTHBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	283	1	190	0	283	190	4	310	1	207	0	310	1	207	0	310	1	207
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Right	96	0	96	0	96	96	0	104	0	104	0	104	0	104	0	104	0	104
	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EASTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WESTBOUND	Left	119	0	119	0	119	119	22	151	0	151	0	151	0	151	0	151	0	151
	Left-Through	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	Through	1034	3	288	30	1064	296	617	1737	3	472	30	1767	3	480	-5	1762	3	478
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Right	137	1	137	0	137	137	0	148	1	148	0	148	1	148	0	148	1	148
	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRITICAL VOLUMES		North-South: 491	North-South: 491		North-South: 533		North-South: 533				North-South: 533				North-South: 533				
		East-West: 288	East-West: 296		East-West: 472		East-West: 472				East-West: 480				East-West: 478				
		SUM: 779	SUM: 787		SUM: 1005		SUM: 1013				SUM: 1011								
VOLUME/CAPACITY (V/C) RATIO:		0.547		0.552		0.705		0.711				0.709							
V/C LESS ATSAC/ATCS ADJUSTMENT:		0.447		0.452		0.605		0.611				0.609							
LEVEL OF SERVICE (LOS):		A		A		B		B				B							

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.006	Δv/c after mitigation:	0.004
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	Central Avenue	Year of Count:	2017	Ambient Growth: (%):	1	Conducted by:	GTC		Date:	12/9/2021								
	East-West Street:	4th Street	Projection Year:	2025	Peak Hour:	PM	Reviewed by:			Project:	401 S Hewitt								
No. of Phases																			
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			3		3		3		3		3								
Right Turns: FREE-1, NRTOR-2 or OLA-3?			NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0							
ATSAC-1 or ATSAC+ATCS-2?			EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0							
Override Capacity			2	2	2	2	2	2	2	2	2	2							
			0	0	0	0	0	0	0	0	0	0							
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION				
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	
NORTHBOUND 	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Through	779	1	513	0	779	513	16	860	1	569	0	860	1	569	0	860	1	569
	Through-Right	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0
	Right	246	0	246	0	246	246	11	277	0	277	0	277	0	277	0	277	0	277
	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SOUTHBOUND 	Left	80	1	80	0	80	80	0	87	1	87	0	87	1	87	0	87	1	87
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Through	236	2	118	0	236	118	26	282	2	141	0	282	2	141	0	282	2	141
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EASTBOUND 	Left	46	0	46	0	46	46	0	50	0	50	0	50	0	50	0	50	0	50
	Left-Through	0	1	0	0	0	0	0	1	1	0	0	1	1	0	0	1	1	0
	Through	1525	2	417	8	1533	419	390	2041	2	553	8	2049	2	555	-1	2048	2	555
	Through-Right	0	1	0	0	0	0	0	1	1	0	0	1	1	0	0	1	1	0
	Right	97	0	417	0	97	419	15	120	0	553	0	120	0	555	0	120	0	555
	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WESTBOUND 	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CRITICAL VOLUMES		North-South: 593		North-South: 593		North-South: 656		North-South: 656		North-South: 656		North-South: 656		North-South: 656		North-South: 656		North-South: 656	
		East-West: 417		East-West: 419		East-West: 553		East-West: 553		East-West: 555		East-West: 555		East-West: 555		East-West: 555		East-West: 555	
		SUM: 1010		SUM: 1012		SUM: 1209		SUM: 1209		SUM: 1211		SUM: 1211		SUM: 1211		SUM: 1211		SUM: 1211	
VOLUME/CAPACITY (V/C) RATIO:			0.709		0.710		0.848				0.850				0.850				
V/C LESS ATSAC/ATCS ADJUSTMENT:			0.609		0.610		0.748				0.750				0.750				
LEVEL OF SERVICE (LOS):			B		B		C				C				C				

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.002		Δv/c after mitigation:	0.002
Significant impacted?	NO		Fully mitigated?	N/A



Level of Service Worksheet (Circular 212 Method)



I/S #: 3	North-South Street:	Central Avenue	Year of Count:	2017	Ambient Growth: (%):	1	Conducted by:	GTC	Date:	12/9/2021									
	East-West Street:	6th Street	Projection Year:	2025	Peak Hour:	PM	Reviewed by:		Project:	401 S Hewitt									
No. of Phases Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			4		4		4		4										
Right Turns: FREE-1, NRTOR-2 or OLA-3?			NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0										
ATSAC-1 or ATSAC+ATCS-2?			EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0										
Override Capacity			2		2		2		2										
			0		0		0		0										
			0		0		0		0										
			0		0		0		0										
			0		0		0		0										
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through																		
	Through	765	1	473	0	765	473	52	880	1	566	0	880	1	566	0	880	1	566
	Through-Right																		
	Right	180	0	180	0	180	180	57	252	0	252	0	252	0	252	0	252	0	252
	Left-Through-Right																		
Left-Right																			
SOUTHBOUND	Left	27	1	27	0	27	27	4	33	1	33	0	33	1	33	0	33	1	33
	Left-Through																		
	Through	331	2	166	0	331	166	0	358	2	179	0	358	2	179	0	358	2	179
	Through-Right																		
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through-Right																		
Left-Right																			
EASTBOUND	Left	127	1	127	0	127	127	31	169	1	169	0	169	1	169	0	169	1	169
	Left-Through																		
	Through	733	2	367	4	737	369	300	1094	2	547	4	1098	2	549	-1	1097	2	549
	Through-Right																		
	Right	129	1	129	0	129	129	187	327	1	327	0	327	1	327	0	327	1	327
	Left-Through-Right																		
Left-Right																			
WESTBOUND	Left	179	1	179	0	179	179	125	319	1	319	0	319	1	319	0	319	1	319
	Left-Through																		
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through-Right																		
	Right	313	2	159	0	313	159	139	478	2	247	0	478	2	247	0	478	2	247
	Left-Through-Right																		
Left-Right																			
CRITICAL VOLUMES			North-South: 500 East-West: 546 SUM: 1046	North-South: 500 East-West: 548 SUM: 1048	North-South: 599 East-West: 866 SUM: 1465	North-South: 599 East-West: 868 SUM: 1467	North-South: 599 East-West: 868 SUM: 1467	North-South: 599 East-West: 868 SUM: 1467											
VOLUME/CAPACITY (V/C) RATIO:			0.761		0.762		1.065				1.067				1.067				
V/C LESS ATSAC/ATCS ADJUSTMENT:			0.661		0.662		0.965				0.967				0.967				
LEVEL OF SERVICE (LOS):			B		B		E				E				E				

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.002	Δv/c after mitigation:	0.002
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #: 4	North-South Street: Central Avenue			Year of Count: 2017	Ambient Growth: (%): 1		Conducted by: GTC		Date: 12/9/2021											
	East-West Street: 7th Street			Projection Year: 2025	Peak Hour: PM		Reviewed by:		Project: 401 S Hewitt											
No. of Phases Opposed Ø'ing: N/S-1, E/W-2 or Both-3? Right Turns: FREE-1, NRTOR-2 or OLA-3? ATSC-1 or ATSC+ATCS-2? Override Capacity		2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0										
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION				
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	58	1	58	0	58	58	0	63	1	63	0	63	1	63	0	63	1	63	
	Left-Through		0							0				0				0		
	Through	809	1	474	0	809	474	103	979	1	570	0	979	1	570	0	979	1	570	
	Through-Right		1							1				1				1		
	Right	138	0	138	0	138	138	11	160	0	160	0	160	0	160	0	160	0	160	
SOUTHBOUND	Left	43	0	43	0	43	43	187	234	0	234	0	234	0	234	0	234	0	234	
	Left-Through		1							1				1				1		
	Through	541	0	387	0	541	387	104	690	0	777	0	690	0	777	0	690	0	777	
	Through-Right		1							1				1				1		
	Right	61	0	387	0	61	387	21	87	0	0	0	87	0	0	0	87	0	0	
EASTBOUND	Left	95	1	95	0	95	95	0	103	1	103	0	103	1	103	0	103	1	103	
	Left-Through		0							0				0				0		
	Through	803	1	438	0	803	438	296	1166	1	623	0	1166	1	623	0	1166	1	623	
	Through-Right		1							1				1				1		
	Right	73	0	73	0	73	73	0	79	0	79	0	79	0	79	0	79	0	79	
WESTBOUND	Left	98	1	98	0	98	98	12	118	1	118	0	118	1	118	0	118	1	118	
	Left-Through		0							0				0				0		
	Through	468	1	265	15	483	273	463	970	1	522	15	985	1	530	-2	983	1	529	
	Through-Right		1							1				1				1		
	Right	62	0	62	0	62	62	7	74	0	74	0	74	0	74	0	74	0	74	
CRITICAL VOLUMES		North-South: East-West: SUM:	517 536 1053	517 536 1053	517 536 1053	517 536 1053	517 536 1053	North-South: East-West: SUM:	840 741 1581	840 741 1581	840 741 1581	840 741 1581	840 741 1581	840 741 1581	840 741 1581	840 741 1581	840 741 1581	840 741 1581	840 741 1581	
VOLUME/CAPACITY (V/C) RATIO: V/C LESS ATSC/ATCS ADJUSTMENT: LEVEL OF SERVICE (LOS):			0.702 0.602 B	0.702 0.602 B	0.702 0.602 B	0.702 0.602 B	0.702 0.602 B	1.054 0.954 E	1.054 0.954 E	1.054 0.954 E	1.054 0.954 E	1.054 0.954 E	1.054 0.954 E	1.054 0.954 E	1.054 0.954 E	1.054 0.954 E	1.054 0.954 E	1.054 0.954 E	1.054 0.954 E	1.054 0.954 E

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project: 0.000	Δv/c after mitigation: 0.000
Significant impacted? NO	Fully mitigated? N/A

Level of Service Worksheet (Circular 212 Method)



I/S #: 5	North-South Street: Alameda Street	Year of Count: 2017	Ambient Growth: (%): 1	Conducted by: GTC	Date: 12/9/2021														
	East-West Street: 2nd Street	Projection Year: 2025	Peak Hour: PM	Reviewed by:	Project: 401 S Hewitt														
No. of Phases Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		3	3	3	3														
Right Turns: FREE-1, NRTOR-2 or OLA-3?		0	0	0	0														
ATSAC-1 or ATSAC+ATCS-2?		0	0	0	0														
Override Capacity		2	2	2	2														
		0	0	0	0														
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	↔	Left	1	151	0	151	151	0	164	1	164	0	164	1	164	0	164	1	164
	↔	Left-Through	0							0				0				0	
	↔	Through	1	483	60	956	513	357	1327	1	718	60	1387	1	748	-9	1378	1	744
	↔	Through-Right	1							1				1				1	
	↔	Right	0	69	0	69	69	34	109	0	109	0	109	0	109	0	109	0	109
	↔	Left-Through-Right	0							0				0				0	
	↔	Left-Right	0							0				0				0	
SOUTHBOUND	↔	Left	1	62	0	62	62	0	67	1	67	0	67	1	67	0	67	1	67
	↔	Left-Through	0							0				0				0	
	↔	Through	1	441	17	832	450	301	1184	1	629	17	1201	1	637	-3	1198	1	636
	↔	Through-Right	1							1				1				1	
	↔	Right	0	67	0	67	67	0	73	0	73	0	73	0	73	0	73	0	73
	↔	Left-Through-Right	0							0				0				0	
	↔	Left-Right	0							0				0				0	
EASTBOUND	↔	Left	1	137	0	137	137	0	148	1	148	0	148	1	148	0	148	1	148
	↔	Left-Through	0							0				0				0	
	↔	Through	1	237	0	237	237	15	272	1	272	0	272	1	272	0	272	1	272
	↔	Through-Right	0							0				0				0	
	↔	Right	1	88	0	163	88	0	177	1	95	0	177	1	95	0	177	1	95
	↔	Left-Through-Right	0							0				0				0	
	↔	Left-Right	0							0				0				0	
WESTBOUND	↔	Left	1	38	0	38	38	9	50	1	50	0	50	1	50	0	50	1	50
	↔	Left-Through	0							0				0				0	
	↔	Through	0	142	0	86	142	18	111	0	181	0	111	0	181	0	111	0	181
	↔	Through-Right	1							1				1				1	
	↔	Right	0	0	0	56	0	9	70	0	0	0	70	0	0	0	70	0	0
	↔	Left-Through-Right	0							0				0				0	
	↔	Left-Right	0							0				0				0	
CRITICAL VOLUMES		North-South: 592	North-South: 601			North-South: 793	North-South: 815			North-South: 815			North-South: 811						
		East-West: 279	East-West: 279			East-West: 329	East-West: 329			East-West: 329			East-West: 329						
		SUM: 871	SUM: 880			SUM: 1122	SUM: 1144			SUM: 1144			SUM: 1140						
VOLUME/CAPACITY (V/C) RATIO:		0.611			0.618			0.787			0.803			0.800					
V/C LESS ATSAC/ATCS ADJUSTMENT:		0.511			0.518			0.687			0.703			0.700					
LEVEL OF SERVICE (LOS):		A			A			B			C			C					

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.016	Δv/c after mitigation:	0.013
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #: 6	North-South Street:	Alameda Street		Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021					
	East-West Street:	3rd Street/4th Place		Projection Year:	2025		Peak Hour:	PM		Reviewed by:			Project:	401 S Hewitt					
No. of Phases		3		Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		0		Right Turns: FREE-1, NRTOR-2 or OLA-3?		0		ATSAC-1 or ATSAC+ATCS-2?		2		Override Capacity		0	
NB--		0		SB--		0		NB--		0		SB--		0		NB--		0	
EB--		0		WB--		0		EB--		0		WB--		0		EB--		0	
		2				2				2				2				2	
		0				0				0				0				0	
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	↔	Left	1	245	0	245	245	87	352	1	352	0	352	1	352	0	352	1	352
	↔	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Through	2	532	0	1063	532	350	1501	2	751	0	1501	2	751	0	1501	2	751
	↔	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTHBOUND	↔	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Through	2	374	17	764	382	297	1106	2	553	17	1123	2	562	-3	1120	2	560
	↔	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Right	1	146	0	146	146	13	171	1	171	0	171	1	171	0	171	1	171
EASTBOUND	↔	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WESTBOUND	↔	Left	0	95	115	210	210	195	298	0	298	115	413	0	413	-18	395	0	395
	↔	Left-Through	1	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	
	↔	Through	2	197	30	655	248	540	1217	2	408	30	1247	2	459	-5	1242	2	451
	↔	Through-Right	1	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	
	↔	Right	0	197	60	127	248	43	116	0	408	60	176	0	459	-9	167	0	451
CRITICAL VOLUMES		North-South:	619		North-South:	627		North-South:	905		North-South:	914		North-South:	912		East-West:	451	
		East-West:	197		East-West:	248		East-West:	408		East-West:	459		East-West:	1363				
		SUM:	816		SUM:	875		SUM:	1313		SUM:	1373		SUM:	1363				
VOLUME/CAPACITY (V/C) RATIO:				0.573				0.614				0.921				0.964			
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.473				0.514				0.821				0.864			
LEVEL OF SERVICE (LOS):				A				A				D				D			

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.043	Δv/c after mitigation:	0.035
Significant impacted?	YES	Fully mitigated?	NO

Level of Service Worksheet (Circular 212 Method)



I/S #: 7	North-South Street:	Alameda Street		Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021					
	East-West Street:	4th Street		Projection Year:	2025		Peak Hour:	PM		Reviewed by:			Project:	401 S Hewitt					
No. of Phases				2				2				2				2			
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0				0				0				0			
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0		
ATSAC-1 or ATSAC+ATCS-2?		EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0		
Override Capacity				2				2				2				2			
				0				0				0				0			
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Left-Through																		
	Through	976	1	518	0	976	535	394	1451	1	846	0	1451	1	862	0	1451	1	860
	Through-Right																		
	Right	60	0	60	33	93	93	175	240	0	240	33	273	0	273	-5	268	0	268
SOUTHBOUND	Left	117	1	117	42	159	159	27	154	1	154	42	196	1	196	-7	189	1	189
	Left-Through																		
	Through	743	2	372	90	833	417	463	1268	2	634	90	1358	2	679	-14	1344	2	672
	Through-Right																		
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EASTBOUND	Left	224	0	224	0	224	224	38	281	0	281	0	281	0	281	0	281	0	281
	Left-Through																		
	Through	1421	2	548	8	1429	551	226	1765	2	682	8	1773	2	685	-1	1772	2	684
	Through-Right																		
	Right	161	1	161	0	161	161	137	311	1	311	0	311	1	311	0	311	1	311
WESTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through																		
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through-Right																		
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRITICAL VOLUMES		North-South: 635		North-South: 694		North-South: 1000		North-South: 1058		North-South: 1049		North-South: 1049		North-South: 1049		North-South: 1049		North-South: 1049	
		East-West: 548		East-West: 551		East-West: 682		East-West: 685		East-West: 684		East-West: 685		East-West: 684		East-West: 684		East-West: 684	
		SUM: 1183		SUM: 1245		SUM: 1682		SUM: 1743		SUM: 1733		SUM: 1743		SUM: 1733		SUM: 1733		SUM: 1733	
VOLUME/CAPACITY (V/C) RATIO:				0.789		0.830		1.121		1.162		1.162		1.155		1.155		1.155	
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.689		0.730		1.021		1.062		1.062		1.055		1.055		1.055	
LEVEL OF SERVICE (LOS):				B		C		F		F		F		F		F		F	

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.041	Δv/c after mitigation:	0.034
Significant impacted?	YES	Fully mitigated?	NO

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	Alameda Street	Year of Count:	2017	Ambient Growth: (%):	1	Conducted by:	GTC	Date:	12/9/2021								
8	East-West Street:	6th Street	Projection Year:	2025	Peak Hour:	PM	Reviewed by:		Project:	401 S Hewitt								
No. of Phases			3			3			3									
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0									
Right Turns: FREE-1, NRTOR-2 or OLA-3?			NB-- 0 SB-- 0			NB-- 0 SB-- 0			NB-- 0 SB-- 0									
ATSAC-1 or ATSAC+ATCS-2?			EB-- 0 WB-- 0			EB-- 0 WB-- 0			EB-- 0 WB-- 0									
Override Capacity			2			2			2									
			0			0			0									
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	1	102	0	102	102	8	118	1	118	0	118	1	118	0	118	1	118
	Left-Through	0							0				0				0	
	Through	1	458	25	867	471	248	1160	1	735	25	1185	1	747	-4	1181	1	745
	Through-Right	1							1				1				1	
	Right	0	74	0	74	74	229	309	0	309	0	309	0	309	0	309	0	309
	Left-Through-Right	0							0				0				0	
	Left-Right	0							0				0				0	
SOUTHBOUND	Left	1	79	15	94	94	252	338	1	338	15	353	1	353	-2	351	1	351
	Left-Through	0							0				0				0	
	Through	1	359	75	716	396	143	837	1	460	75	912	1	497	-12	900	1	491
	Through-Right	1							1				1				1	
	Right	0	76	0	76	76	0	82	0	82	0	82	0	82	0	82	0	82
	Left-Through-Right	0							0				0				0	
	Left-Right	0							0				0				0	
EASTBOUND	Left	1	110	4	114	114	32	151	1	151	4	155	1	155	-1	154	1	154
	Left-Through	0							0				0				0	
	Through	1	398	0	714	398	257	1030	1	596	0	1030	1	596	0	1030	1	596
	Through-Right	1							1				1				1	
	Right	0	82	0	82	82	73	162	0	162	0	162	0	162	0	162	0	162
	Left-Through-Right	0							0				0				0	
	Left-Right	0							0				0				0	
WESTBOUND	Left	1	41	0	41	41	252	296	1	296	0	296	1	296	0	296	1	296
	Left-Through	0							0				0				0	
	Through	1	144	0	237	146	256	513	1	381	0	513	1	383	0	513	1	383
	Through-Right	1							1				1				1	
	Right	0	50	4	54	54	195	249	0	249	4	253	0	253	-1	252	0	252
	Left-Through-Right	0							0				0				0	
	Left-Right	0							0				0				0	
CRITICAL VOLUMES			North-South: 537	North-South: 565	North-South: 1073	North-South: 1100	North-South: 1096											
			East-West: 439	East-West: 439	East-West: 892	East-West: 892	East-West: 892											
			SUM: 976	SUM: 1004	SUM: 1965	SUM: 1992	SUM: 1988											
VOLUME/CAPACITY (V/C) RATIO:			0.685	0.705	1.379	1.398	1.395											
V/C LESS ATSAC/ATCS ADJUSTMENT:			0.585	0.605	1.279	1.298	1.295											
LEVEL OF SERVICE (LOS):			A	B	F	F	F											

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.019	Δv/c after mitigation:	0.016
Significant impacted?	YES	Fully mitigated?	NO

Level of Service Worksheet (Circular 212 Method)



I/S #: 9	North-South Street: East-West Street:	Alameda Street 7th Street	Year of Count: Projection Year:	2017 2025	Ambient Growth: (%): Peak Hour:	1 PM	Conducted by: Reviewed by:	GTC	Date: Project:	12/9/2021 401 S Hewitt								
	No. of Phases Opposed Ø'ing: N/S-1, E/W-2 or Both-3? Right Turns: FREE-1, NRTOR-2 or OLA-3? ATSAC-1 or ATSAC+ATCS-2? Override Capacity		3 0 0 0 2 0	3 0 0 0 2 0	3 0 0 0 2 0	3 0 0 0 2 0	3 0 0 0 2 0	3 0 0 0 2 0	3 0 0 0 2 0									
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	1	109	0	109	109	0	118	1	118	0	118	1	118	0	118	1	118
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	1	438	21	782	449	227	1051	1	633	21	1072	1	643	-3	1069	1	642
	Through-Right	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Right	0	115	0	115	115	89	214	0	214	0	214	0	214	0	214	0	214
SOUTHBOUND	Left	1	105	0	105	105	92	206	1	206	0	206	1	206	0	206	1	206
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	1	379	60	774	416	233	1006	1	586	60	1066	1	623	-9	1057	1	618
	Through-Right	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Right	0	43	15	58	58	118	165	0	165	15	180	0	180	-2	178	0	178
EASTBOUND	Left	1	98	0	98	98	77	183	1	183	0	183	1	183	0	183	1	183
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	1	435	0	757	435	417	1237	1	679	0	1237	1	679	0	1237	1	679
	Through-Right	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Right	0	112	0	112	112	0	121	0	121	0	121	0	121	0	121	0	121
WESTBOUND	Left	1	79	0	79	79	89	175	1	175	0	175	1	175	0	175	1	175
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	1	271	0	420	273	362	817	1	576	0	817	1	578	0	817	1	578
	Through-Right	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Right	0	122	4	126	126	203	335	0	335	4	339	0	339	-1	338	0	338
CRITICAL VOLUMES		North-South: 543 East-West: 514 SUM: 1057	North-South: 554 East-West: 514 SUM: 1068	North-South: 839 East-West: 854 SUM: 1693	North-South: 849 East-West: 854 SUM: 1703	North-South: 848 East-West: 854 SUM: 1702												
VOLUME/CAPACITY (V/C) RATIO:		0.742		0.749		1.188		1.195		1.194								
V/C LESS ATSAC/ATCS ADJUSTMENT:		0.642		0.649		1.088		1.095		1.094								
LEVEL OF SERVICE (LOS):		B		B		F		F		F								

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.007	Δv/c after mitigation:	0.006
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #: 10	North-South Street: Alameda Street	Year of Count: 2017	Ambient Growth: (%): 1	Conducted by: GTC	Date: 12/9/2021															
	East-West Street: Olympic Boulevard	Projection Year: 2025	Peak Hour: PM	Reviewed by:	Project: 401 S Hewitt															
No. of Phases Opposed Ø'ing: N/S-1, E/W-2 or Both-3? Right Turns: FREE-1, NRTOR-2 or OLA-3? ATSC-1 or ATSC+ATCS-2? Override Capacity		2 0 NB-- 0 SB-- 0 EB-- 0 WB-- 0 2 0	2 0 NB-- 0 SB-- 0 EB-- 0 WB-- 0 2 0	2 0 NB-- 0 SB-- 0 EB-- 0 WB-- 0 2 0	2 0 NB-- 0 SB-- 0 EB-- 0 WB-- 0 2 0															
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION					
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume		
NORTHBOUND	↔	Left	75	1	75	0	75	75	4	85	1	85	0	85	1	85	0	85	1	85
	↔	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Through	788	1	487	17	805	495	262	1115	1	658	17	1132	1	666	-3	1129	1	665
	↔	Through-Right	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	↔	Right	185	0	185	0	185	185	0	200	0	200	0	200	0	200	0	200	0	200
SOUTHBOUND	↔	Left	100	1	100	0	100	100	89	197	1	197	0	197	1	197	0	197	1	197
	↔	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Through	882	2	441	60	942	471	233	1188	2	594	60	1248	2	624	-9	1239	2	620
	↔	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Right	129	1	98	0	129	98	0	140	1	101	0	140	1	101	0	140	1	101
EASTBOUND	↔	Left	62	1	62	0	62	62	11	78	1	78	0	78	1	78	0	78	1	78
	↔	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Through	961	1	507	0	961	507	237	1278	1	670	0	1278	1	670	0	1278	1	670
	↔	Through-Right	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	↔	Right	53	0	53	0	53	53	5	62	0	62	0	62	0	62	0	62	0	62
WESTBOUND	↔	Left	77	1	77	0	77	77	0	83	1	83	0	83	1	83	0	83	1	83
	↔	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Through	909	1	474	0	909	476	190	1174	1	630	0	1174	1	632	0	1174	1	631
	↔	Through-Right	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	↔	Right	39	0	39	4	43	43	43	85	0	85	4	89	0	89	-1	88	0	88
CRITICAL VOLUMES		North-South: 587 East-West: 584 SUM: 1171	North-South: 595 East-West: 584 SUM: 1179	North-South: 855 East-West: 753 SUM: 1608	North-South: 863 East-West: 753 SUM: 1616	North-South: 862 East-West: 753 SUM: 1615														
VOLUME/CAPACITY (V/C) RATIO:		0.781	0.786	1.072	1.077	1.077														
V/C LESS ATSC/ATCS ADJUSTMENT:		0.681	0.686	0.972	0.977	0.977														
LEVEL OF SERVICE (LOS):		B	B	E	E	E														

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.005	Δv/c after mitigation:	0.005
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #: 11	North-South Street:	Alameda Street		Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021					
	East-West Street:	I-10 EB Ramps		Projection Year:	2025		Peak Hour:	PM		Reviewed by:			Project:	401 S Hewitt					
No. of Phases																			
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?																			
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0		
ATSAC-1 or ATSAC+ATCS-2?		EB-- 3	WB-- 0	EB-- 3	WB-- 0	EB-- 3	WB-- 0	EB-- 3	WB-- 0	EB-- 3	WB-- 0	EB-- 3	WB-- 0	EB-- 3	WB-- 0	EB-- 3	WB-- 0		
Override Capacity																			
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	422	1	422	0	422	422	0	457	1	457	0	457	1	457	0	457	1	457
	Left-Through		0							0				0				0	
	Through	1021	1	511	8	1029	515	70	1176	1	588	8	1184	1	592	-1	1183	1	592
	Through-Right		1							1				1				1	
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTHBOUND	Left	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
	Left-Through		0							0				0				0	
	Through	1183	2	592	30	1213	607	68	1349	2	675	30	1379	2	690	-5	1374	2	687
	Through-Right		0							0				0				0	
	Right	466	1	432	0	466	428	17	522	1	455	0	522	1	451	0	522	1	451
EASTBOUND	Left	69	1	69	8	77	77	60	135	1	135	8	143	1	143	-1	142	1	142
	Left-Through		0							0				0				0	
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through-Right		0							0				0				0	
	Right	225	1	0	0	225	0	0	244	1	0	0	244	1	0	0	244	1	0
WESTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through		0							0				0				0	
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through-Right		0							0				0				0	
	Right	7	0	0	0	7	0	0	8	0	0	0	8	0	0	0	8	0	0
CRITICAL VOLUMES		North-South: 1014		North-South: 1029		North-South: 1132		North-South: 1147		North-South: 1147		North-South: 1144		North-South: 1144		North-South: 1144		North-South: 1144	
		East-West: 69		East-West: 77		East-West: 135		East-West: 143		East-West: 143		East-West: 142		East-West: 142		East-West: 142		East-West: 142	
		SUM: 1083		SUM: 1106		SUM: 1267		SUM: 1290		SUM: 1290		SUM: 1286		SUM: 1286		SUM: 1286		SUM: 1286	
VOLUME/CAPACITY (V/C) RATIO:				0.788		0.804		0.921		0.938		0.935		0.935		0.935		0.935	
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.688		0.704		0.821		0.838		0.835		0.835		0.835		0.835	
LEVEL OF SERVICE (LOS):				B		C		D		D		D		D		D		D	

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.017	Δv/c after mitigation:	0.014
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #: 12	North-South Street:	Vignes Street		Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021					
	East-West Street:	1st Street		Projection Year:	2025		Peak Hour:	PM		Reviewed by:			Project:	401 S Hewitt					
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?						3											3		
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0			
ATSAC-1 or ATSAC+ATCS-2?		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0			
Override Capacity						2											2		
						0											0		
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION				
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	8	0	8	0	8	8	0	9	0	9	0	9	0	9	0	9	0	9
	Left-Through	42	0	180	0	42	180	0	45	0	45	0	211	0	45	0	211	0	211
	Through	130	0	0	0	130	0	16	157	0	0	157	0	0	0	157	0	0	0
	Through-Right		1						1		1		1		1		1		1
	Left-Through-Right		0						0		0		0		0		0		0
SOUTHBOUND	Left	64	0	64	0	64	64	0	69	0	69	0	69	0	69	0	69	0	69
	Left-Through	27	0	124	0	27	124	0	29	0	29	0	134	0	29	0	134	0	134
	Through	33	0	0	0	33	0	0	36	0	0	36	0	0	0	36	0	0	0
	Through-Right		1						1		1		1		1		1		1
	Left-Through-Right		0						0		0		0		0		0		0
EASTBOUND	Left	91	0	91	0	91	91	0	99	0	99	0	99	0	99	0	99	0	99
	Left-Through	775	1	479	0	775	479	5	844	1	521	0	844	1	521	0	844	1	521
	Through	18	1	18	0	18	18	0	19	1	19	0	19	1	19	0	19	1	19
	Through-Right		0						0		0		0		0		0		0
	Left-Through-Right		0						0		0		0		0		0		0
WESTBOUND	Left	54	0	54	0	54	54	0	58	0	58	0	58	0	58	0	58	0	58
	Left-Through	342	0	308	0	342	308	5	375	0	335	0	375	0	335	0	375	0	335
	Through	58	0	308	0	58	308	0	63	0	335	0	63	0	335	0	63	0	335
	Through-Right		0						0		0		0		0		0		0
	Left-Through-Right		0						0		0		0		0		0		0
CRITICAL VOLUMES		North-South: 244 East-West: 787 SUM: 1031		North-South: 244 East-West: 787 SUM: 1031		North-South: 280 East-West: 856 SUM: 1136		North-South: 280 East-West: 856 SUM: 1136		North-South: 280 East-West: 856 SUM: 1136		North-South: 280 East-West: 856 SUM: 1136		North-South: 280 East-West: 856 SUM: 1136		North-South: 280 East-West: 856 SUM: 1136		North-South: 280 East-West: 856 SUM: 1136	
VOLUME/CAPACITY (V/C) RATIO:																			
V/C LESS ATSAC/ATCS ADJUSTMENT:																			
LEVEL OF SERVICE (LOS):																			

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.000	Δv/c after mitigation:	0.000
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #: 13	North-South Street:	Merrick Street/Molino Street		Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021					
	East-West Street:	4th Street		Projection Year:	2025		Peak Hour:	PM		Reviewed by:			Project:	401 S Hewitt					
No. of Phases																			
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?																			
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0		
ATSAC-1 or ATSAC+ATCS-2?		EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0		
Override Capacity																			
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	37	0	37	0	37	37	3	43	0	43	0	43	0	43	0	43	0	43
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	13	0	64	0	13	64	0	14	0	436	0	14	0	436	0	14	0	436
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Right	14	0	0	0	14	0	364	379	0	0	0	379	0	0	0	379	0	0
SOUTHBOUND	Left	87	1	87	0	87	87	0	94	0	94	0	94	0	94	0	94	0	94
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	0	0	0	0	0	0	0	0	0	123	0	0	0	123	0	0	0	123
	Through-Right	27	1	27	0	27	27	0	29	0	0	0	29	0	0	0	29	0	0
	Right	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
EASTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	1521	2	521	120	1641	561	38	1685	2	577	120	1805	2	617	-18	1787	2	611
	Through-Right	43	0	43	0	43	43	0	47	0	47	0	47	0	47	0	47	0	47
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WESTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	622	1	346	25	647	358	775	1449	1	762	25	1474	1	775	-4	1470	1	773
	Through-Right	69	0	69	0	69	69	0	75	0	75	0	75	0	75	0	75	0	75
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRITICAL VOLUMES		North-South: 151		North-South: 151		North-South: 530		North-South: 530		North-South: 530		North-South: 530		North-South: 530		North-South: 530		North-South: 530	
		East-West: 521		East-West: 561		East-West: 762		East-West: 762		East-West: 775		East-West: 775		East-West: 773		East-West: 773		East-West: 773	
		SUM: 672		SUM: 712		SUM: 1292		SUM: 1305		SUM: 1305		SUM: 1303		SUM: 1303		SUM: 1303		SUM: 1303	
VOLUME/CAPACITY (V/C) RATIO:				0.472		0.500		0.861		0.870		0.869		0.869		0.869		0.869	
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.372		0.400		0.761		0.770		0.769		0.769		0.769		0.769	
LEVEL OF SERVICE (LOS):				A		A		C		C		C		C		C		C	

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.009	Δv/c after mitigation:	0.008
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	Mateo Street	Year of Count:		2017	Ambient Growth: (%)		1	Conducted by:		GTC	Date:	12/9/2021					
	East-West Street:	6th Street	Projection Year:		2025	Peak Hour:		PM	Reviewed by:			Project:	401 S Hewitt					
	No. of Phases		2		2		2		2		2		2					
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		0		0		0		0		0		0					
	Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0				
	ATSAC-1 or ATSAC+ATCS-2?		EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0				
	Override Capacity		2		2		2		2		2		2					
			0		0		0		0		0		0					
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	43	0	43	0	43	41	88	0	88	0	88	0	88	0	88	0	88
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	128	0	211	0	128	47	186	0	317	0	186	0	317	0	186	0	317
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Right	40	0	0	0	40	0	43	0	0	0	43	0	0	0	43	0	0
	Left-Through-Right	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTHBOUND	Left	32	0	32	0	32	27	62	0	62	0	62	0	62	0	62	0	62
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	114	0	187	15	129	41	164	0	322	15	179	0	337	-2	177	0	335
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Right	41	0	0	0	41	52	96	0	0	0	96	0	0	0	96	0	0
	Left-Through-Right	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EASTBOUND	Left	65	1	65	0	65	57	127	1	127	0	127	1	127	0	127	1	127
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	763	1	418	15	778	89	915	1	515	15	930	1	523	-2	928	1	522
	Through-Right	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Right	73	0	73	0	73	36	115	0	115	0	115	0	115	0	115	0	115
	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WESTBOUND	Left	13	1	13	0	13	0	14	1	14	0	14	1	14	0	14	1	14
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	227	1	127	4	231	94	340	1	202	4	344	1	204	-1	343	1	203
	Through-Right	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Right	26	0	26	0	26	35	63	0	63	0	63	0	63	0	63	0	63
	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRITICAL VOLUMES		North-South: 243	East-West: 431	SUM: 674	North-South: 245	East-West: 439	SUM: 684	North-South: 410	East-West: 529	SUM: 939	North-South: 425	East-West: 537	SUM: 962	North-South: 423	East-West: 536	SUM: 959		
VOLUME/CAPACITY (V/C) RATIO:		0.449		0.456		0.626		0.641		0.639								
V/C LESS ATSAC/ATCS ADJUSTMENT:		0.349		0.356		0.526		0.541		0.539								
LEVEL OF SERVICE (LOS):		A		A		A		A		A								

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.015	Δv/c after mitigation:	0.013
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #: 15	North-South Street: Mateo Street		Year of Count: 2017		Ambient Growth: (%): 1		Conducted by: GTC		Date: 12/9/2021									
	East-West Street: 7th Street		Projection Year: 2025		Peak Hour: PM		Reviewed by:		Project: 401 S Hewitt									
No. of Phases Opposed Ø'ing: N/S-1, E/W-2 or Both-3? Right Turns: FREE-1, NRTOR-2 or OLA-3? ATSAC-1 or ATSAC+ATCS-2? Override Capacity			2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0								
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	←	Left	110	0	110	110	171	290	0	290	0	290	0	290	0	290	0	290
	←→	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	→	Through	163	0	328	328	50	227	0	769	0	227	0	769	0	227	0	769
	↘	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↙	Right	55	0	0	55	0	192	252	0	0	0	252	0	0	0	252	0
SOUTHBOUND	→	Left	49	0	49	49	36	89	0	89	0	89	0	89	0	89	0	89
	→←	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	←	Through	119	0	197	212	36	165	0	289	15	180	0	304	-2	178	0	302
	↘	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↙	Right	29	0	0	29	0	4	35	0	0	0	35	0	0	0	35	0
EASTBOUND	→	Left	65	1	65	65	5	75	1	75	0	75	1	75	0	75	1	75
	→←	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	←	Through	814	1	440	440	510	1391	1	868	0	1391	1	868	0	1391	1	868
	↘	Through-Right	0	1	0	0	0	0	1	0	0	0	1	0	0	0	1	0
	↙	Right	65	0	65	65	274	344	0	344	0	344	0	344	0	344	0	344
WESTBOUND	→	Left	46	1	46	46	171	221	1	221	0	221	1	221	0	221	1	221
	→←	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	←	Through	393	1	212	214	160	586	1	330	4	590	1	332	-1	589	1	331
	↘	Through-Right	0	1	0	0	0	0	1	0	0	0	1	0	0	0	1	0
	↙	Right	31	0	31	31	39	73	0	73	0	73	0	73	0	73	0	73
CRITICAL VOLUMES			North-South: 377 East-West: 486 SUM: 863	North-South: 377 East-West: 486 SUM: 863	North-South: 377 East-West: 486 SUM: 863	North-South: 858 East-West: 1089 SUM: 1947	North-South: 858 East-West: 1089 SUM: 1947	North-South: 858 East-West: 1089 SUM: 1947	North-South: 858 East-West: 1089 SUM: 1947									
VOLUME/CAPACITY (V/C) RATIO:			0.575	0.575	0.575	1.298	1.298	1.298	1.298									
V/C LESS ATSAC/ATCS ADJUSTMENT:			0.475	0.475	0.475	1.198	1.198	1.198	1.198									
LEVEL OF SERVICE (LOS):			A	A	A	F	F	F	F									

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project: 0.000	Δv/c after mitigation: 0.000
Significant impacted?: NO	Fully mitigated?: N/A

Level of Service Worksheet (Circular 212 Method)



I/S #: 16	North-South Street:	Santa Fe Avenue		Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021					
	East-West Street:	7th Street		Projection Year:	2025		Peak Hour:	PM		Reviewed by:			Project:	401 S Hewitt					
		No. of Phases		4		4		4		4		4		4		4			
		Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		0		0		0		0		0		0		0			
		Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 3 SB-- 0		NB-- 3 SB-- 0		NB-- 3 SB-- 0		NB-- 3 SB-- 0		NB-- 3 SB-- 0		NB-- 3 SB-- 0		NB-- 3 SB-- 0			
		ATSAC-1 or ATSAC+ATCS-2?		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0			
		Override Capacity		2		2		2		2		2		2		2			
		0		0		0		0		0		0		0		0			
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	↔	Left	1	105	0	105	105	35	149	1	149	0	149	1	149	0	149	1	149
	↔	Left-Through	0																
	↔	Through	1	331	0	331	331	107	465	1	465	0	465	1	465	0	465	1	465
	↔	Through-Right	0																
	↔	Right	1	0	0	162	0	16	191	1	0	0	191	1	0	0	191	1	0
SOUTHBOUND	↔	Left	0	58	0	58	58	29	92	0	92	0	92	0	92	0	92	0	92
	↔	Left-Through	0																
	↔	Through	0	346	0	265	346	56	343	0	610	0	343	0	610	0	343	0	610
	↔	Through-Right	0																
	↔	Right	0	0	0	23	0	150	175	0	0	0	175	0	0	0	175	0	0
EASTBOUND	↔	Left	1	28	0	28	28	128	158	1	158	0	158	1	158	0	158	1	158
	↔	Left-Through	0																
	↔	Through	1	436	0	692	436	609	1358	1	809	0	1358	1	809	0	1358	1	809
	↔	Through-Right	1																
	↔	Right	0	180	0	180	180	64	259	0	259	0	259	0	259	0	259	0	259
WESTBOUND	↔	Left	1	207	0	207	207	0	224	1	224	0	224	1	224	0	224	1	224
	↔	Left-Through	0																
	↔	Through	1	186	4	318	188	701	1041	1	571	4	1045	1	573	-1	1044	1	572
	↔	Through-Right	1																
	↔	Right	0	57	0	57	57	38	100	0	100	0	100	0	100	0	100	0	100
CRITICAL VOLUMES		North-South: 451		North-South: 451		North-South: 451		North-South: 759		North-South: 759		North-South: 759		North-South: 759		North-South: 759		North-South: 759	
		East-West: 643		East-West: 643		East-West: 643		East-West: 1033		East-West: 1033		East-West: 1033		East-West: 1033		East-West: 1033		East-West: 1033	
		SUM: 1094		SUM: 1094		SUM: 1094		SUM: 1792		SUM: 1792		SUM: 1792		SUM: 1792		SUM: 1792		SUM: 1792	
VOLUME/CAPACITY (V/C) RATIO:				0.796		0.796				1.303		1.303				1.303		1.303	
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.696		0.696				1.203		1.203				1.203		1.203	
LEVEL OF SERVICE (LOS):				B		B				F		F				F		F	

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.000	Δv/c after mitigation:	0.000
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	Santa Fe Avenue		Year of Count:	2017	Ambient Growth: (%):	1	Conducted by:	GTC		Date:	12/9/2021							
	East-West Street:	8th Street		Projection Year:	2025	Peak Hour:	PM	Reviewed by:			Project:	401 S Hewitt							
No. of Phases Opposed Ø'ing: N/S-1, E/W-2 or Both-3? Right Turns: FREE-1, NRTOR-2 or OLA-3? ATSC-1 or ATSC+ATCS-2? Override Capacity				2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0	2 0 0 0 2 0							
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	↔	Left	225	0	225	0	225	225	0	244	0	244	0	244	0	244	0	244	244
	↔	Left-Through	491	1	500	0	491	500	146	678	1	688	0	678	1	688	0	678	688
	↔	Through-Right	9	1	0	0	9	0	10	0	1	0	10	0	0	10	0	0	0
	↔	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTHBOUND	↔	Left	9	0	9	0	9	9	0	10	0	10	0	10	0	10	0	10	10
	↔	Left-Through	524	1	361	0	524	361	109	676	1	461	0	676	1	461	0	676	461
	↔	Through-Right	180	1	361	0	180	361	11	206	1	461	0	206	1	461	0	206	461
	↔	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EASTBOUND	↔	Left	56	0	56	0	56	56	11	72	0	72	0	72	0	72	0	72	72
	↔	Left-Through	12	0	442	0	12	442	0	13	0	490	0	13	0	490	0	13	490
	↔	Through-Right	374	0	0	0	374	0	405	0	0	0	405	0	0	405	0	0	0
	↔	Right	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
	↔	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WESTBOUND	↔	Left	9	0	9	0	9	9	0	10	0	10	0	10	0	10	0	10	10
	↔	Left-Through	3	0	26	0	3	26	0	3	0	28	0	3	0	28	0	3	28
	↔	Through-Right	14	0	0	0	14	0	15	0	0	0	15	0	0	15	0	0	0
	↔	Right	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
	↔	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRITICAL VOLUMES			North-South: 586 East-West: 451 SUM: 1037	North-South: 586 East-West: 451 SUM: 1037	North-South: 705 East-West: 500 SUM: 1205	North-South: 705 East-West: 500 SUM: 1205	North-South: 705 East-West: 500 SUM: 1205	North-South: 705 East-West: 500 SUM: 1205	North-South: 705 East-West: 500 SUM: 1205	North-South: 705 East-West: 500 SUM: 1205	North-South: 705 East-West: 500 SUM: 1205	North-South: 705 East-West: 500 SUM: 1205							
VOLUME/CAPACITY (V/C) RATIO:			0.691	0.691	0.803	0.803	0.803	0.803	0.803	0.803	0.803	0.803							
V/C LESS ATSC/ATCS ADJUSTMENT:			0.591	0.591	0.703	0.703	0.703	0.703	0.703	0.703	0.703	0.703							
LEVEL OF SERVICE (LOS):			A	A	C	C	C	C	C	C	C								

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.000	Δv/c after mitigation:	0.000
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	US 101 NB Off-Ramp		Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021					
	East-West Street:	4th Street		Projection Year:	2025		Peak Hour:	PM		Reviewed by:			Project:	401 S Hewitt					
	No. of Phases				2			2			2			2					
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0			0			0			0					
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0		
		EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0		
	ATSAC-1 or ATSAC+ATCS-2?				2			2			2			2					
	Override Capacity				0			0			0			0					
	MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	337	1	278	12	349	284	231	596	1	417	12	608	1	423	-2	606	1	422
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	0	0	278	0	0	284	0	0	0	417	0	0	0	423	0	0	0	422
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Right	219	0	0	0	219	0	0	237	0	0	0	237	0	0	0	237	0	0
	Left-Through-Right	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SOUTHBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EASTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	1111	3	370	45	1156	385	259	1462	3	487	45	1507	3	502	-7	1500	3	500
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WESTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	586	1	293	12	598	299	395	1030	1	515	12	1042	1	521	-2	1040	1	520
	Through-Right	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CRITICAL VOLUMES		North-South: 278		North-South: 284		North-South: 417		North-South: 423		North-South: 422		North-South: 422		North-South: 422		North-South: 422		North-South: 422	
		East-West: 370		East-West: 385		East-West: 515		East-West: 521		East-West: 520		East-West: 521		East-West: 520		East-West: 520		East-West: 520	
		SUM: 648		SUM: 669		SUM: 932		SUM: 944		SUM: 942		SUM: 944		SUM: 942		SUM: 942		SUM: 942	
VOLUME/CAPACITY (V/C) RATIO:				0.432		0.446		0.621		0.629		0.629		0.628		0.628		0.628	
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.332		0.346		0.521		0.529		0.529		0.528		0.528		0.528	
LEVEL OF SERVICE (LOS):				A		A		A		A		A		A		A		A	

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.008	Δv/c after mitigation:	0.007
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	Boyle Street	Year of Count:	2017	Ambient Growth: (%):	1	Conducted by:	GTC	Date:	12/9/2021									
19	East-West Street:	4th Street	Projection Year:	2025	Peak Hour:	PM	Reviewed by:		Project:	401 S Hewitt									
No. of Phases			3		3		3		3										
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0		0		0		0										
Right Turns: FREE-1, NRTOR-2 or OLA-3?			NB-- 0 SB-- 0 EB-- 0 WB-- 0		NB-- 0 SB-- 0 EB-- 0 WB-- 0		NB-- 0 SB-- 0 EB-- 0 WB-- 0		NB-- 0 SB-- 0 EB-- 0 WB-- 0										
ATSAC-1 or ATSAC+ATCS-2?			2		2		2		2										
Override Capacity			0		0		0		0										
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION				
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	123	1	123	0	123	123	0	133	1	133	0	133	1	133	0	133	1	133
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	574	0	718	0	574	718	0	622	0	778	0	622	0	778	0	622	0	778
	Through-Right	1	1	1	0	1	1	0	1	1	1	0	1	1	1	0	1	1	1
	Right	144	0	0	0	144	0	0	156	0	0	0	156	0	0	0	156	0	0
SOUTHBOUND	Left	96	1	96	0	96	96	0	104	1	104	0	104	1	104	0	104	1	104
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	347	0	395	0	347	395	0	376	0	428	0	376	0	428	0	376	0	428
	Through-Right	1	1	1	0	1	1	0	1	1	1	0	1	1	1	0	1	1	1
	Right	48	0	0	0	48	0	0	52	0	0	0	52	0	0	0	52	0	0
EASTBOUND	Left	0	0	0	6	6	0	0	0	0	0	6	6	0	0	-1	5	0	0
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	1160	2	425	39	1199	438	259	1515	2	547	39	1554	2	560	-6	1548	2	558
	Through-Right	1	1	1	0	1	1	0	1	1	1	0	1	1	1	0	1	1	1
	Right	115	0	115	0	115	115	0	125	0	125	0	125	0	125	0	125	0	125
WESTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	626	1	392	12	638	398	395	1073	1	622	12	1085	1	628	-2	1083	1	627
	Through-Right	1	1	1	0	1	1	0	1	1	1	0	1	1	1	0	1	1	1
	Right	158	0	158	0	158	158	0	171	0	171	0	171	0	171	0	171	0	171
CRITICAL VOLUMES		North-South: 814 East-West: 425 SUM: 1239		North-South: 814 East-West: 438 SUM: 1252		North-South: 882 East-West: 622 SUM: 1504				North-South: 882 East-West: 628 SUM: 1510				North-South: 882 East-West: 627 SUM: 1509					
VOLUME/CAPACITY (V/C) RATIO:			0.869		0.879		1.055				1.060				1.059				
V/C LESS ATSAC/ATCS ADJUSTMENT:			0.769		0.779		0.955				0.960				0.959				
LEVEL OF SERVICE (LOS):			C		C		E				E				E				

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.005	Δv/c after mitigation:	0.004
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:		Boyle Street		Year of Count:	2017	Ambient Growth: (%):	1	Conducted by:	GTC		Date:	12/9/2021							
	20	East-West Street:		Whittier Boulevard		Projection Year:	2025	Peak Hour:	PM	Reviewed by:			Project:	401 S Hewitt						
No. of Phases Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			3		3		3		3		3		3							
Right Turns: FREE-1, NRTOR-2 or OLA-3?			NB-- 0 SB-- 0 EB-- 0 WB-- 0		NB-- 0 SB-- 0 EB-- 0 WB-- 0		NB-- 0 SB-- 0 EB-- 0 WB-- 0		NB-- 0 SB-- 0 EB-- 0 WB-- 0		NB-- 0 SB-- 0 EB-- 0 WB-- 0		NB-- 0 SB-- 0 EB-- 0 WB-- 0							
ATSAC-1 or ATSAC+ATCS-2? Override Capacity			2 0		2 0		2 0		2 0		2 0		2 0							
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION					
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume		
NORTHBOUND	Left	1	173	0	173	173	0	187	1	187	0	187	1	187	0	187	1	187		
	Left-Through	0							0				0				0			
	Through	1	553	0	897	553	0	971	1	599	0	971	1	599	0	971	1	599		
	Through-Right	1							1				1				1			
	Right	0	209	0	209	209	0	226	0	226	0	226	0	226	0	226	0	226		
SOUTHBOUND	Left	1	126	0	126	126	0	136	1	136	0	136	1	136	0	136	1	136		
	Left-Through	0							0				0				0			
	Through	1	212	0	385	212	0	417	1	230	0	417	1	230	0	417	1	230		
	Through-Right	1							1				1				1			
	Right	0	39	0	39	39	0	42	0	42	0	42	0	42	0	42	0	42		
EASTBOUND	Left	1	197	0	197	197	0	213	1	213	0	213	1	213	0	213	1	213		
	Left-Through	0							0				0				0			
	Through	1	363	15	633	370	34	703	1	410	15	718	1	417	-2	716	1	416		
	Through-Right	1							1				1				1			
	Right	0	107	0	107	107	0	116	0	116	0	116	0	116	0	116	0	116		
WESTBOUND	Left	1	62	0	62	62	0	67	1	67	0	67	1	67	0	67	1	67		
	Left-Through	0							0				0				0			
	Through	1	272	4	385	274	89	502	1	339	4	506	1	341	-1	505	1	340		
	Through-Right	1							1				1				1			
	Right	0	162	0	162	162	0	175	0	175	0	175	0	175	0	175	0	175		
CRITICAL VOLUMES			North-South: 679 East-West: 469 SUM: 1148			North-South: 679 East-West: 471 SUM: 1150			North-South: 735 East-West: 552 SUM: 1287				North-South: 735 East-West: 554 SUM: 1289				North-South: 735 East-West: 553 SUM: 1288			
VOLUME/CAPACITY (V/C) RATIO:			0.806			0.807			0.903				0.905				0.904			
V/C LESS ATSAC/ATCS ADJUSTMENT:			0.706			0.707			0.803				0.805				0.804			
LEVEL OF SERVICE (LOS):			C			C			D				D				D			

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.002	Δv/c after mitigation:	0.001
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	I-5 Northbound Ramps	Year of Count:	2017	Ambient Growth: (%):	1	Conducted by:	GTC	Date:	12/9/2021									
21	East-West Street:	4th Street	Projection Year:	2025	Peak Hour:	PM	Reviewed by:		Project:	401 S Hewitt									
No. of Phases		3		3		3		3		3									
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		0		0		0		0		0									
Right Turns: FREE-1, NRTOR-2 or OLA-3?		0		0		0		0		0									
ATSAC-1 or ATSAC+ATCS-2?		2		2		2		2		2									
Override Capacity		0		0		0		0		0									
		NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0		NB-- 0 SB-- 0									
		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0		EB-- 0 WB-- 0									
MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION				
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	
NORTHBOUND	Left	43	1	43	0	43	43	27	74	1	74	0	74	1	74	0	74	1	74
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	49	0	138	0	49	138	0	53	0	149	0	53	0	149	0	53	0	149
	Through-Right	1	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0
	Right	89	0	0	0	89	0	0	96	0	0	0	96	0	0	0	96	0	0
SOUTHBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EASTBOUND	Left	714	1	714	24	738	738	172	945	1	945	24	969	1	969	-4	965	1	965
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	1052	2	526	15	1067	534	65	1204	2	602	15	1219	2	610	-2	1217	2	609
	Through-Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WESTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through	449	1	369	4	453	371	74	560	1	436	4	564	1	438	-1	563	1	438
	Through-Right	1	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0
	Right	288	0	288	0	288	288	0	312	0	312	0	312	0	312	0	312	0	312
CRITICAL VOLUMES		North-South: 138		North-South: 138		North-South: 138		North-South: 149		North-South: 149		North-South: 149		North-South: 149		North-South: 149		North-South: 149	
		East-West: 1083		East-West: 1109		East-West: 1109		East-West: 1381		East-West: 1381		East-West: 1407		East-West: 1407		East-West: 1403		East-West: 1403	
		SUM: 1221		SUM: 1247		SUM: 1247		SUM: 1530		SUM: 1530		SUM: 1556		SUM: 1556		SUM: 1552		SUM: 1552	
VOLUME/CAPACITY (V/C) RATIO:		0.857		0.875		0.875		1.074		1.074		1.092		1.092		1.089		1.089	
V/C LESS ATSAC/ATCS ADJUSTMENT:		0.757		0.775		0.775		0.974		0.974		0.992		0.992		0.989		0.989	
LEVEL OF SERVICE (LOS):		C		C		C		E		E		E		E		E		E	

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project: **0.018** Δv/c after mitigation: **0.015**
 Significant impacted? **YES** Fully mitigated? **NO**

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	Soto Street		Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021					
	East-West Street:	4th Street		Projection Year:	2025		Peak Hour:	PM		Reviewed by:			Project:	401 S Hewitt					
No. of Phases																			
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?																			
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0	NB-- 0	SB-- 0		
ATSAC-1 or ATSAC+ATCS-2?		EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0	EB-- 0	WB-- 0		
Override Capacity																			
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	192	1	192	0	192	192	0	208	1	208	0	208	1	208	0	208	1	208
	Left-Through		0							0				0				0	
	Through	749	2	375	0	749	375	0	811	2	406	0	811	2	406	0	811	2	406
	Through-Right		0							0				0				0	
	Right	121	1	57	0	121	57	0	131	1	62	0	131	1	62	0	131	1	62
Left-Through-Right		0							0				0				0		
Left-Right		0							0				0				0		
SOUTHBOUND	Left	125	1	125	0	125	125	0	135	1	135	0	135	1	135	0	135	1	135
	Left-Through		0							0				0				0	
	Through	560	2	280	0	560	280	0	606	2	303	0	606	2	303	0	606	2	303
	Through-Right		0							0				0				0	
	Right	70	1	20	0	70	20	0	76	1	22	0	76	1	22	0	76	1	22
Left-Through-Right		0							0				0				0		
Left-Right		0							0				0				0		
EASTBOUND	Left	100	1	100	0	100	100	0	108	1	108	0	108	1	108	0	108	1	108
	Left-Through		0							0				0				0	
	Through	936	1	522	15	951	530	7	1021	1	569	15	1036	1	577	-2	1034	1	576
	Through-Right		1							1				1				1	
	Right	108	0	108	0	108	108	0	117	0	117	0	117	0	117	0	117	0	117
Left-Through-Right		0							0				0				0		
Left-Right		0							0				0				0		
WESTBOUND	Left	128	1	128	0	128	128	0	139	1	139	0	139	1	139	0	139	1	139
	Left-Through		0							0				0				0	
	Through	483	1	278	4	487	280	33	556	1	318	4	560	1	320	-1	559	1	319
	Through-Right		1							1				1				1	
	Right	73	0	73	0	73	73	0	79	0	79	0	79	0	79	0	79	0	79
Left-Through-Right		0							0				0				0		
Left-Right		0							0				0				0		
CRITICAL VOLUMES		North-South: 500		North-South: 500		North-South: 541		North-South: 541		North-South: 541		North-South: 541		North-South: 541		North-South: 541		North-South: 541	
		East-West: 800		East-West: 810		East-West: 887		East-West: 887		East-West: 897		East-West: 897		East-West: 895		East-West: 895		East-West: 895	
		SUM: 1300		SUM: 1310		SUM: 1428		SUM: 1428		SUM: 1438		SUM: 1438		SUM: 1436		SUM: 1436		SUM: 1436	
VOLUME/CAPACITY (V/C) RATIO:																			
V/C LESS ATSAC/ATCS ADJUSTMENT:																			
LEVEL OF SERVICE (LOS):																			

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.007	Δv/c after mitigation:	0.006
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet (Circular 212 Method)



I/S #:	North-South Street:	I-5 Southbound Ramps			Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	GTC		Date:	12/9/2021					
	East-West Street:	4th Street			Projection Year:	2025		Peak Hour:	PM		Reviewed by:			Project:	401 S Hewitt					
No. of Phases																				
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?																				
Right Turns: FREE-1, NRTOR-2 or OLA-3?		NB-- 0	SB-- 0	0	NB-- 0	SB-- 0	0	NB-- 0	SB-- 0	0	NB-- 0	SB-- 0	0	NB-- 0	SB-- 0	0	0			
ATSAC-1 or ATSAC+ATCS-2?		EB-- 0	WB-- 0	0	EB-- 0	WB-- 0	0	EB-- 0	WB-- 0	0	EB-- 0	WB-- 0	0	EB-- 0	WB-- 0	0	0			
Override Capacity																				
MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION				
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	
NORTHBOUND	↔	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	↔	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	↔	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	↔	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	↔	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTHBOUND	↔	137	0	0	0	137	0	148	1	148	0	148	1	148	0	148	1	148		
	↔	2	0	0	0	2	0	2	0	287	0	2	0	295	0	2	0	294		
	↔	150	0	0	8	158	0	123	285	0	0	8	293	0	0	-1	292	0	0	
	↔	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	↔	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EASTBOUND	↔	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	↔	1563	0	0	39	1602	0	107	1800	2	900	39	1839	2	920	-6	1833	2	917	
	↔	80	0	0	0	80	0	19	106	1	106	0	106	1	106	0	106	1	106	
	↔	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	↔	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WESTBOUND	↔	95	0	0	0	95	0	3	106	1	106	0	106	1	106	0	106	1	106	
	↔	756	0	0	4	760	0	62	881	2	441	4	885	2	443	-1	884	2	442	
	↔	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	↔	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	↔	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CRITICAL VOLUMES		North-South: 0			North-South: 0			North-South: 287				North-South: 295				North-South: 294				
		East-West: 0			East-West: 0			East-West: 1006				East-West: 1026				East-West: 1023				
		SUM: 0			SUM: 0			SUM: 1293				SUM: 1321				SUM: 1317				
VOLUME/CAPACITY (V/C) RATIO:		0.000			0.000			0.907				0.927				0.924				
V/C LESS ATSAC/ATCS ADJUSTMENT:		0.000			0.000			0.807				0.827				0.824				
LEVEL OF SERVICE (LOS):		A			A			D				D				D				

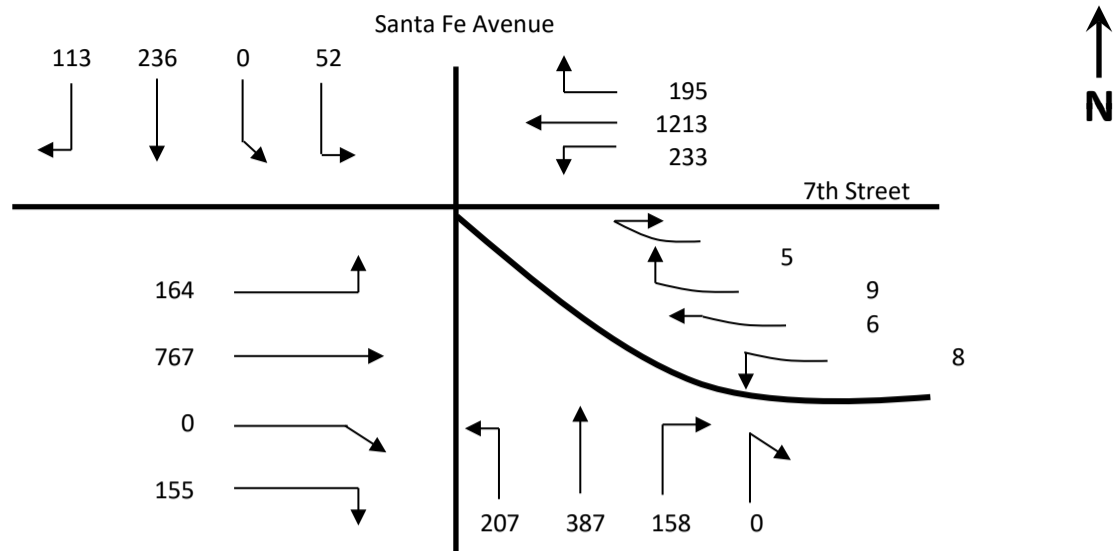
REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in v/c due to project:	0.020	Δv/c after mitigation:	0.017
Significant impacted?	YES	Fully mitigated?	YES

**Intersection 16 - Santa Fe Avenue & 7th Street
Future without Project Conditions (Year 2025) - AM Peak Hour**



1) Critical volume calculation for eastbound/westbound traffic on 7th Street

Eastbound Left : 164 and

Westbound Throughs + Right:

$$\frac{1213}{2} + \frac{195}{2} = \frac{1408}{2} = 704$$
 or

Westbound Left: 233 and

Eastbound Throughs + Right to 7th Street and Frontage Road:

$$\frac{767}{2} + \frac{0}{2} + \frac{155}{2} = \frac{922}{2} = 461$$

Critical Volume #1 (CV1): **868**

2) Critical volume calculation for northeastbound traffic on Frontage Road

Northeastbound Lefts + Throughs + Rights + Sharp Right:

$$5 + 9 + 6 + 8 = 28$$

Critical Volume #2 (CV2): **28**

3) Critical volume calculation for northbound/southbound traffic on Santa Fe Avenue

Southbound Left to 7th Street and Frontage Road:

$$52 + 0 = 52$$
 and

Northbound Through: 387 *or*

Northbound Right to 7th Street and Frontage Road:

$$158 + 0 - 233 = -75$$
 or

Northbound Left: 207 and

Southbound Left + Left to Frontage Road + Through + Right:

$$113 + 236 + 0 + 52 = 401$$

Critical Volume #3 (CV3): **608**

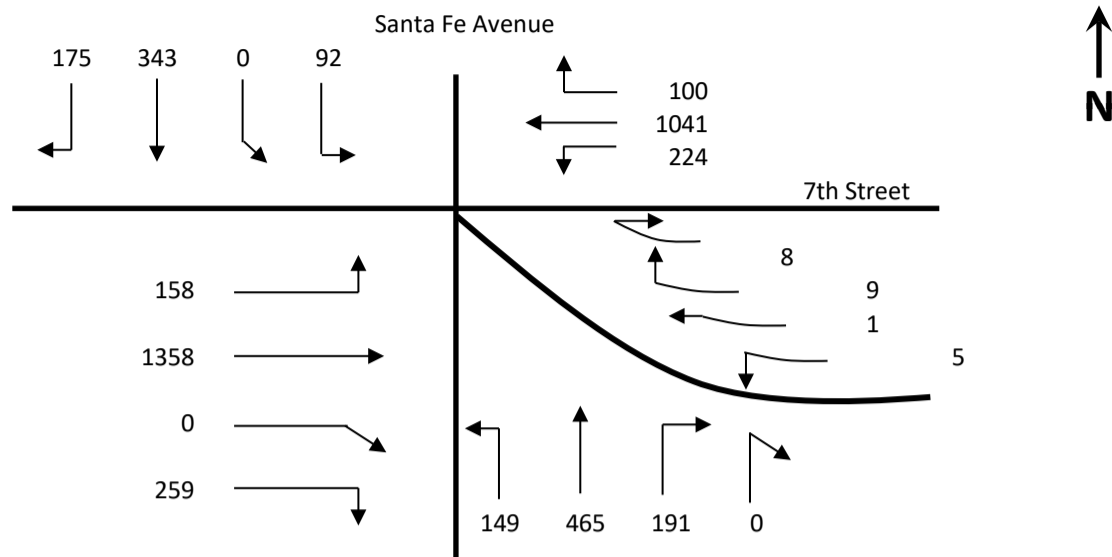
Critical Volume: 868 + 28 + 608 = **1504**

Intersection V/C: $\frac{1504}{1375} = \mathbf{1.094}$

ATSAC/ATCS Credit: 0.10

Final intersection V/C: 0.994 **Intersection LOS: E**

**Intersection 16 - Santa Fe Avenue & 7th Street
Future without Project Conditions (Year 2025) - PM Peak Hour**



1) Critical volume calculation for eastbound/westbound traffic on 7th Street

Eastbound Left : 158 and

Westbound Throughs + Right:

$$\frac{1041}{2} + \frac{100}{2} = \frac{1141}{2} = 571$$
 or

Westbound Left: 224 and

Eastbound Throughs + Right to 7th Street and Frontage Road:

$$\frac{1358}{2} + \frac{0}{2} + \frac{259}{2} = \frac{1,617}{2} = 809$$

Critical Volume #1 (CV1): **1,033**

2) Critical volume calculation for northeastbound traffic on Frontage Road

Northeastbound Lefts + Throughs + Rights + Sharp Right:

$$8 + 9 + 1 + 5 = 23$$

Critical Volume #2 (CV2): **23**

3) Critical volume calculation for northbound/southbound traffic on Santa Fe Avenue

Southbound Left to 7th Street and Frontage Road:

$$92 + 0 = 92$$
 and

Northbound Through: 465 *or*

Northbound Right to 7th Street and Frontage Road:

$$191 + 0 - 224 = -33$$
 or

Northbound Left: 149 and

Southbound Left + Left to Frontage Road + Through + Right:

$$175 + 343 + 0 + 92 = 610$$

Critical Volume #3 (CV3): **759**

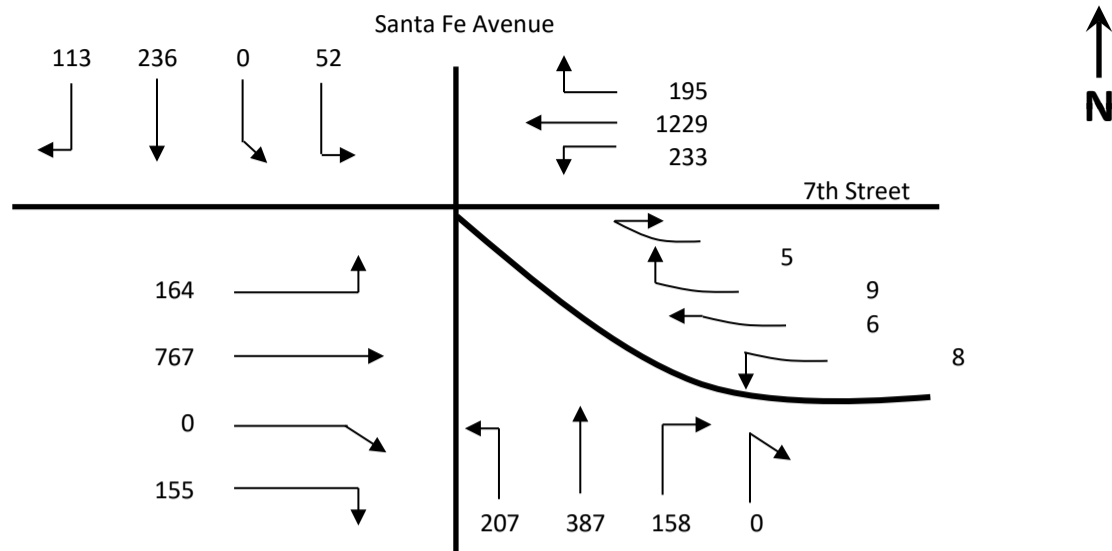
Critical Volume: 1033 + 23 + 759 = **1815**

Intersection V/C: $\frac{1815}{1375} = 1.32$

ATSAC/ATCS Credit: 0.10

Final intersection V/C: 1.220 **Intersection LOS: F**

**Intersection 16 - Santa Fe Avenue & 7th Street
Future with Project Conditions (Year 2025) - AM Peak Hour**



1) Critical volume calculation for eastbound/westbound traffic on 7th Street

Eastbound Left : 164 and

Westbound Throughs + Right:

$$\frac{1229}{2} + \frac{195}{2} = \frac{1424}{2} = 712$$
or

Westbound Left: 233 and

Eastbound Throughs + Right to 7th Street and Frontage Road:

$$\frac{767}{2} + \frac{0}{2} + \frac{155}{2} = \frac{922}{2} = 461$$

Critical Volume #1 (CV1): **876**

2) Critical volume calculation for northeastbound traffic on Frontage Road

Northeastbound Lefts + Throughs + Rights + Sharp Right:

$$5 + 9 + 6 + 8 = 28$$

Critical Volume #2 (CV2): **28**

3) Critical volume calculation for northbound/southbound traffic on Santa Fe Avenue

Southbound Left to 7th Street and Frontage Road:

$$52 + 0 = 52$$
and

Northbound Through: 387 *or*

Northbound Right to 7th Street and Frontage Road:

$$158 + 0 - 233 = -75$$
or

Northbound Left: 207 and

Southbound Left + Left to Frontage Road + Through + Right:

$$113 + 236 + 0 + 52 = 401$$

Critical Volume #3 (CV3): **608**

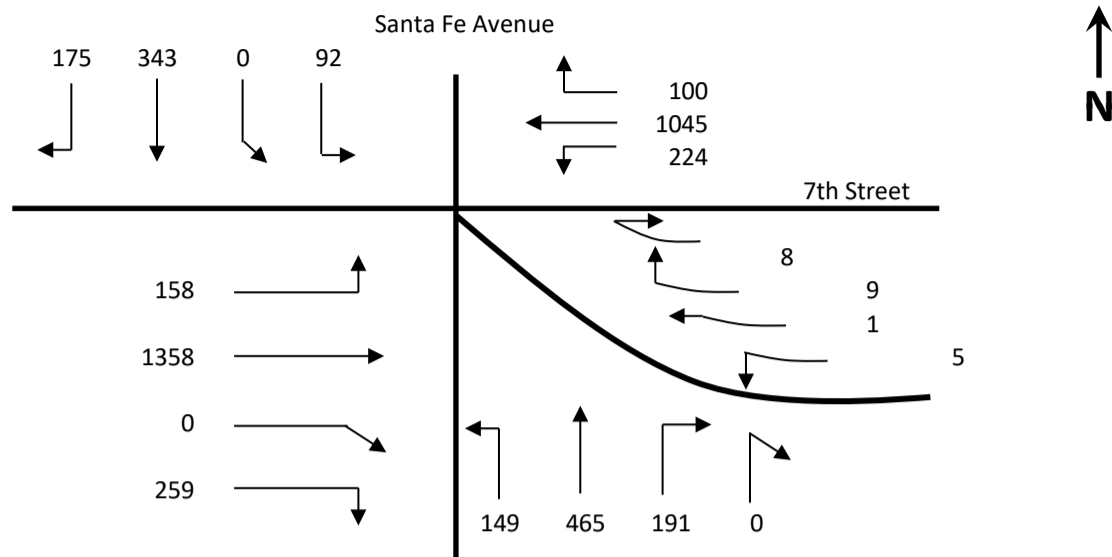
Critical Volume: 876 + 28 + 608 = **1512**

Intersection V/C: $\frac{1512}{1375} = 1.1$

ATSAC/ATCS Credit: 0.10

Final intersection V/C: 1.000 **Intersection LOS: F**

**Intersection 16 - Santa Fe Avenue & 7th Street
Future with Project Conditions (Year 2025) - PM Peak Hour**



1) Critical volume calculation for eastbound/westbound traffic on 7th Street

Eastbound Left : 158 and

Westbound Throughs + Right:

$$\frac{1045}{2} + \frac{100}{2} = \frac{1145}{2} = 573$$
 or

Westbound Left: 224 and

Eastbound Throughs + Right to 7th Street and Frontage Road:

$$\frac{1358}{2} + \frac{0}{2} + \frac{259}{2} = \frac{1,617}{2} = 809$$

Critical Volume #1 (CV1): **1,033**

2) Critical volume calculation for northeastbound traffic on Frontage Road

Northeastbound Lefts + Throughs + Rights + Sharp Right:

$$8 + 9 + 1 + 5 = 23$$

Critical Volume #2 (CV2): **23**

3) Critical volume calculation for northbound/southbound traffic on Santa Fe Avenue

Southbound Left to 7th Street and Frontage Road:

$$92 + 0 = 92$$
 and

Northbound Through: 465 *or*

Northbound Right to 7th Street and Frontage Road:

$$191 + 0 - 224 = -33$$
 or

Northbound Left: 149 and

Southbound Left + Left to Frontage Road + Through + Right:

$$175 + 343 + 0 + 92 = 610$$

Critical Volume #3 (CV3): **759**

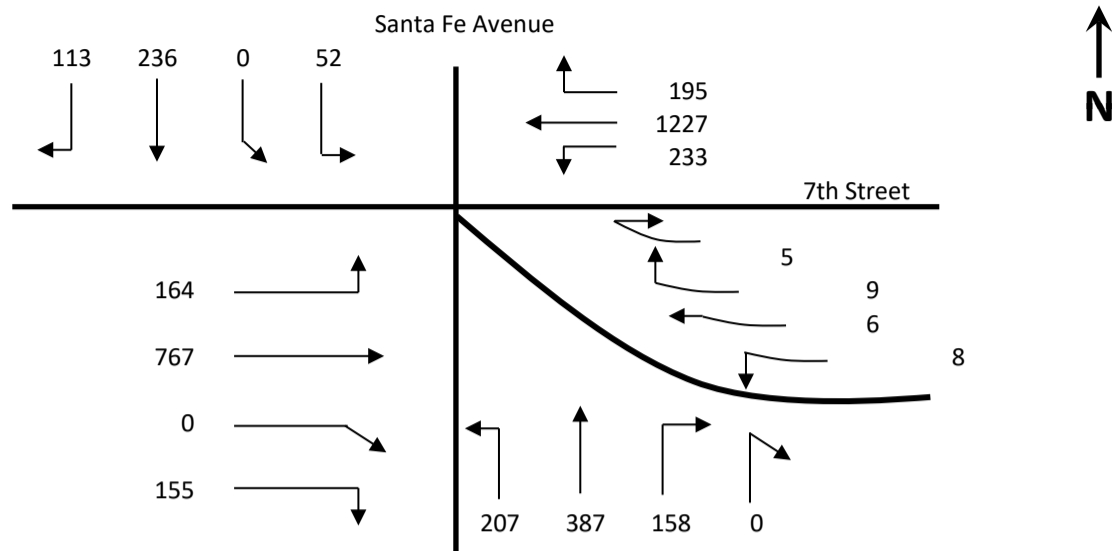
Critical Volume: 1033 + 23 + 759 = **1815**

Intersection V/C: $\frac{1815}{1375} = 1.32$

ATSAC/ATCS Credit: 0.10

Final intersection V/C: 1.220 **Intersection LOS: F**

**Intersection 16 - Santa Fe Avenue & 7th Street
Future with Project with Mitigation Conditions (Year 2025) - AM Peak Hour**



1) Critical volume calculation for eastbound/westbound traffic on 7th Street

Eastbound Left : 164 and

Westbound Throughs + Right:

$$\frac{1227}{2} + \frac{195}{2} = \frac{1422}{2} = 711$$
 or

Westbound Left: 233 and

Eastbound Throughs + Right to 7th Street and Frontage Road:

$$\frac{767}{2} + \frac{0}{2} + \frac{155}{2} = \frac{922}{2} = 461$$

Critical Volume #1 (CV1): **875**

2) Critical volume calculation for northeastbound traffic on Frontage Road

Northeastbound Lefts + Throughs + Rights + Sharp Right:

$$5 + 9 + 6 + 8 = 28$$

Critical Volume #2 (CV2): **28**

3) Critical volume calculation for northbound/southbound traffic on Santa Fe Avenue

Southbound Left to 7th Street and Frontage Road:

$$52 + 0 = 52$$
 and

Northbound Through: 387 *or*

Northbound Right to 7th Street and Frontage Road:

$$158 + 0 - 233 = -75$$
 or

Northbound Left: 207 and

Southbound Left + Left to Frontage Road + Through + Right:

$$113 + 236 + 0 + 52 = 401$$

Critical Volume #3 (CV3): **608**

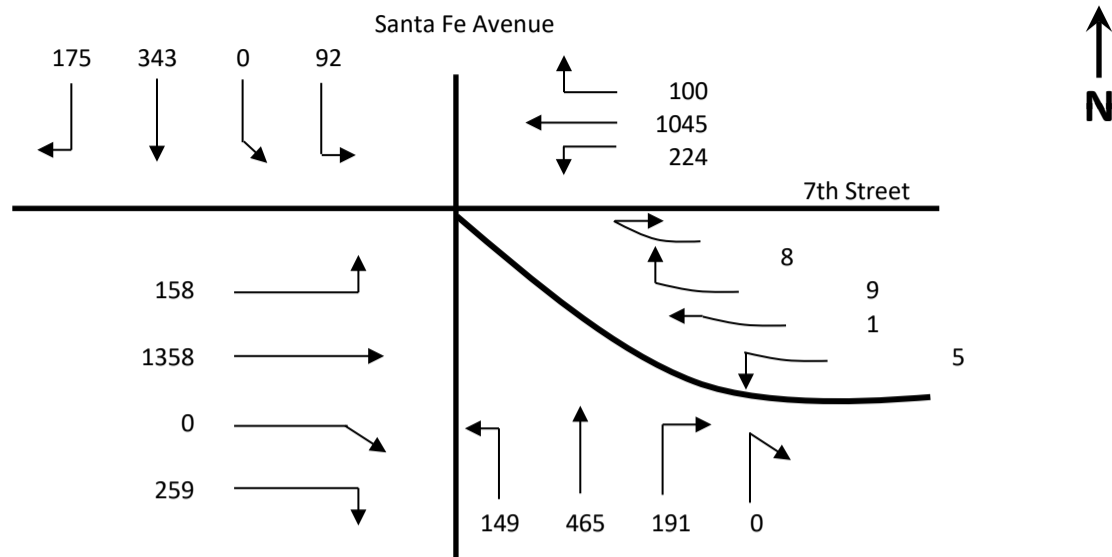
Critical Volume: 875 + 28 + 608 = **1511**

Intersection V/C: $\frac{1511}{1375} = 1.099$

ATSAC/ATCS Credit: 0.10

Final intersection V/C: 0.999 **Intersection LOS: E**

Intersection 16 - Santa Fe Avenue & 7th Street
Future with Project with Mitigation Conditions (Year 2025) - PM Peak Hour



1) Critical volume calculation for eastbound/westbound traffic on 7th Street

Eastbound Left : 158 and

Westbound Throughs + Right:

$$\frac{1045}{2} + \frac{100}{2} = \frac{1145}{2} = 573$$
 or

Westbound Left: 224 and

Eastbound Throughs + Right to 7th Street and Frontage Road:

$$\frac{1358}{2} + \frac{0}{2} + \frac{259}{2} = \frac{1,617}{2} = 809$$

Critical Volume #1 (CV1): **1,033**

2) Critical volume calculation for northeastbound traffic on Frontage Road

Northeastbound Lefts + Throughs + Rights + Sharp Right:

$$8 + 9 + 1 + 5 = 23$$

Critical Volume #2 (CV2): **23**

3) Critical volume calculation for northbound/southbound traffic on Santa Fe Avenue

Southbound Left to 7th Street and Frontage Road:

$$92 + 0 = 92$$
 and

Northbound Through: 465 *or*

Northbound Right to 7th Street and Frontage Road:

$$191 + 0 - 224 = -33$$
 or

Northbound Left: 149 and

Southbound Left + Left to Frontage Road + Through + Right:

$$175 + 343 + 0 + 92 = 610$$

Critical Volume #3 (CV3): **759**

Critical Volume: 1033 + 23 + 759 = **1815**

Intersection V/C: $\frac{1815}{1375} = 1.32$

ATSAC/ATCS Credit: 0.10

Final intersection V/C: 1.220 **Intersection LOS: F**