# ATTACHMENT 6 Synchro, SimTraffic Simulated Fall Demonstration Project Results

# ATTACHMENT 6: Synchro/SimTraffic Simulation Comparisons - Peak 15 Minute Periods Simulation Findings for AM Start (7:15-7:30) and PM Dismissal (2:00-2:15)

Table 1 compares the Fall Demonstration traffic control plan results to existing conditions (Table 1). Data was simulated for the highest peak 15 minutes in the morning and peak afternoon time periods. Changes in traffic control, lane configurations, user group destinations, and turning movements were simulated. Three scenarios were modeled, both AM and PM, for a total of six simulations. Each scenario was modeled 5 times with randomly seeded traffic arrivals, in order to produce average results for each scenario.

- Existing conditions turning movement counts were modeled for AM and PM performance.
- The **Fall Demonstration project predictions** for a traffic control plan was proposed for October 14-18, 2024 involved the relocation of user groups. This was modeled to predict potential performance.
- The **Fall Demonstration project implementation** in October 2024 provided actual results. Predicted traffic changes were adjusted based on field observations during the demonstration and modeled again for actual performance.

The main goal of this traffic simulation was to predict beneficial changes to traffic under the Fall Demonstration project by using the existing space available on campus. No new construction or reconstruction was possible. Instead, short term, temporary traffic control allows testing how much it is possible to optimize the campus layout without significant costs or reconstruction. Simulations show what can work and what may not work, as measured by delays, queues, and volume-to-capacity (v/c) ratios.

Three main indications of concern are used in evaluating traffic simulation for the most problematic intersections.

- 1. **V/C ratio.** Where the volume-to-capacity ratio of intersections meets or exceed 0.8 or 80% of ability to serve a turning movement, these are noted as a "v/c" ratio of concern in Table 1
- 2. **Queues**. Queuing of more than 10 vehicles (more than 200 feet) is a sign of one of the more congested intersections on or near campus.
- 3. **Delays.** Delays of 45 seconds per vehicle or more approaches Level of Service E/F or what may be less tolerable conditions for most users.

# West Valley High School

Simulation findings show the following areas of WVHS are most affected under the Fall Demonstration project traffic control changes:

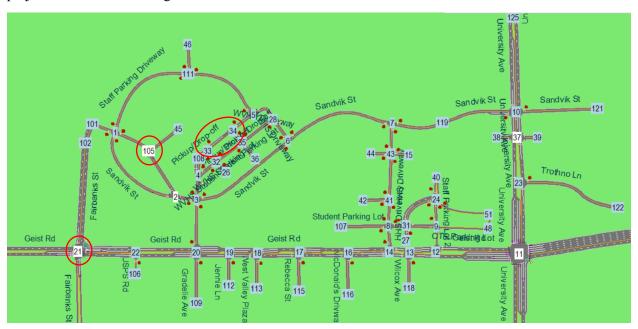


Figure A6-1: FNSB High School Network – WVHS Intersection #'s most affected in simulation WVHS #33,#34 Existing Drop-off and Pick-up lanes

- Existing Concern: #33, #34 Drop-off and pick-up lanes at WVHS experience significant onsite congestion and pedestrian safety conflicts at v/c exceeding 0.8 in both the AM and at PM Dismissal. Delays are 3 minutes or longer per motorist. Queues average 16 vehicles per lane but can range from 10 vehicles up to 30 vehicles in length in various simulation runs.
- Fall Demonstration Benefit: At #105, the new West Loop Drop-off, Pick-up zone has been modeled to show it had the potential to reduce delays and queues on the East side of the school by half or more. The concept "doubles" the available drop-off, pickup curbside frontage. Delays and queues were reduced, but not as much as predicted. Even with changes, Volume-to-capacity ratios still exceeded 0.8 in front of the main entrance. While the AM period saw greater benefits, the PM Dismissal period saw less improvement. Traffic counts during the demonstration showed the West Loop pick-up zone was not well utilized in the PM Peak period during the weeklong demonstration.

# WVHS #111 Back Lot Temporary Bus Loading Zone WVHS #105 West Loop Drop-off, Pick-up Curbside

• Existing Concern: #111 Back Lot School Entrance had no existing concerns. All bus loading was moved to the back lot during the Fall Demonstration project to open the west front side of WVHS to additional drop-off and pick-up capacity. This also required moving nearly all staff parking to the front of WVHS's other parking lots. The back lot was difficult to maneuver for busing, however, significant assistance from the WVHS staff directed about 150 student bus

- riders to access doorways, and Durham Services staff directed bus staging to line up around existing plug-in pedestals.
- Fall Demonstration Benefit: Back lot congestion was increased; however, delays, queues and v/c ratios did not rise to levels of concern listed above. Bus loading at the rear entrance was accomplished with staging buses away from conflict with other traffic. The benefit of moving buses to the rear of the school included not introducing conflicts with other vehicles and opening other areas of the school to expanded drop-off and pick-up use.

## WVHS #21 Fairbanks St and Geist Rd

- Existing Concern: No significant existing concerns. This is a higher volume, higher use signal. Southbound left turns occasionally model at or near LOS E in some simulations, but on average are functioning well at LOS C or better.
- **Fall Demonstration Benefit:** Simulation changes showed southbound left turns were improved to fall below a volume-to-capacity ratio of less than 0.8 or less than 80 percent. Simulation was based on maximum green times being available for peak traffic movements, especially eastbound buses turning left at the traffic signal to enter the campus in the AM peak period.

# **Hutchison High School**

Simulation findings show the following areas of HHS are most affected by fall demonstration project traffic control changes:

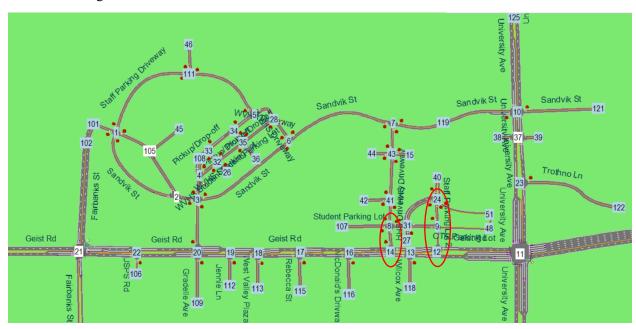


Figure A6-2: FNSB High School Network – HHS Front Intersection #'s in simulation

HHS Front of School HHS #14 West Driveway onto Geist Road HHS #8 West Driveway and Front Parking Lot access HHS #12, #24, #31 East Driveway and Drop-off, Pick-up access

- Existing Concern: #14 HHS West Driveway at Geist Road. V/C ratios are above 0.8 for existing conditions for southbound traffic to turn left or right onto Giest Road in both the AM and PM Dismissal peak periods. Delays are at LOS F due to heavy school departure volumes.
- Existing Concern: #8 HHS West Driveway and Front Parking Lot. Parking lot turning traffic conflicts with drop-off and pick-up traffic creating internal congestion in the PM Dismissal hour, just off Geist Road. Trying to exit the front parking lots onto the HHS West Drive is LOS F or worse in the PM Dismissal peak period with delays of 3 minutes or longer. Southbound traffic from the back of HHS also experiences LOS F with average delays of 60 seconds or more per user trying to reach Geist Road.
- Existing Concern: Pick-up queues back onto Geist Road at the HHS East Driveway on some days, intersections #31, #24, and #12. This showed up on some simulation model runs, but not commonly across an average of all runs.
- Fall Demonstration Benefit: In the Traffic Control Plans (TCP's), the Fall Demonstration project a) restricted left turns onto Geist Road, and b) closed internal southbound traffic from the back of the school. Senior parking was moved to the back and west parking lots of HHS. This

left visitors, staff, and drop-off and pick-up as the only remaining traffic to be served with access back to Geist Road. Removing the back parking lot demand reduced the v/c ratio and congestion for all traffic in front of the school to less than 0.8 in the PM Dismissal peak period. Because PM Dismissal parking lot traffic had to go north to exit, the front of the HHS school congestion at the Pickup lanes and access to Geist Road was reduced by two-thirds (2/3). Simulation in front of the school shows pickup in the PM Dismissal period experienced less than half the delays of existing conditions when exiting towards Geist Road. No traffic came close to backing onto Geist Road at the HHS East Driveway #12.

**Fall Demonstration Disbenefit:** As noted in the next section below, congestion benefits at the front of the school translated to disbenefits to the rear of the school.

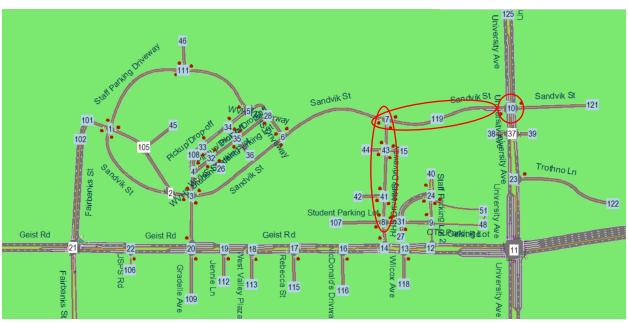


Figure A6-3: FNSB High School Network – HHS Back Intersection #'s in simulation

HHS Back of School University and Sandvik Street #10 Sandvik & HHS West Driveway #7 HHS Back Lot Parking #43

- Existing Concerns: Both high schools arrive and exit through the University Avenue and Sandvik Street intersection. Existing conditions simulation shows delays of less than 45 seconds per user, and queues of 11 vehicles or less. These are not LOS F conditions.
- Fall Demonstration Disbenefit: During the Fall Demonstration project, all HHS parking lot traffic was forced to exit via Sandvik Street. This tripled traffic loads northbound from HHS to the back of the school in the PM Dismissal peak period. The simulation results reflect this as worsening of delay to more than 85 seconds per vehicle, or LOS F eastbound on Sandvik Street trying to get to the STOP sign and make a left turn. Simulation queues tripled to nearly 30 vehicles or 600 feet in length, which is not quite to HHS or intersection #7.

• Fall Demonstration Benefit: This simulation was able to predict north side delays of LOS F heading to Sandvik Street and to University Avenue. Unfortunately, no traffic control plan solution was found to mitigate existing Sandvik Street congestion and did make congestion to University Avenue two to three times worse.

By not finding a workable temporary traffic control plan option, this demonstration indicates a solution is needed not only for HHS at Geist Road, but also on Sandvik Street. More access options will need to be explored beyond existing routes currently available.

No other changes to the area network were noted to experience significant changes in delay or queueing.

# University and Geist Road #11

University Avenue and Geist Road regularly experiences left turn delays exceeding 45 seconds per vehicle in peak hour conditions. Queues of more than 10 vehicles in any lanes are common.

No significant congestion or queuing changes were simulated when comparing existing conditions to fall demonstration project changes. This large, high-volume intersection has the capacity to serve minor rerouting of High School traffic. V/C ratios remain less than 0.8 in all simulations.

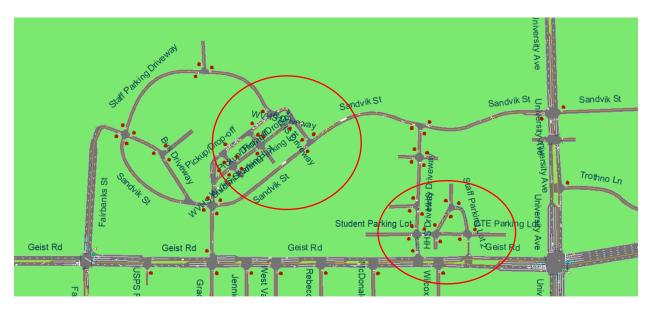


Figure A6-4: AM Peak Period Congestion Simulation (Run 4) Existing Conditions, Queues onto Geist Road, along Sandvik Street

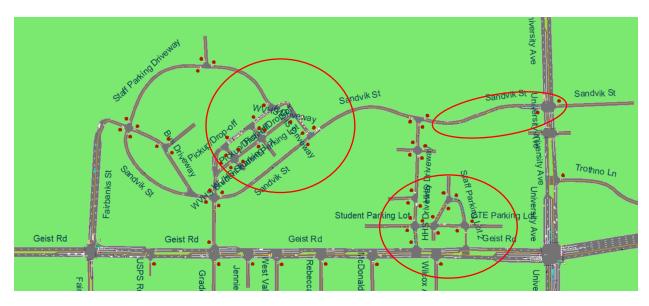
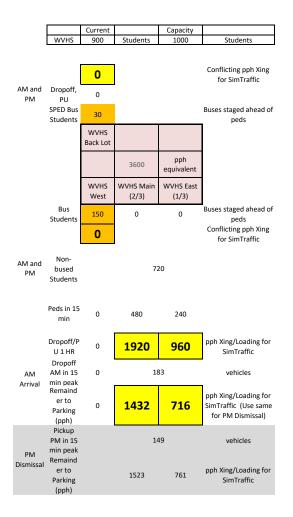


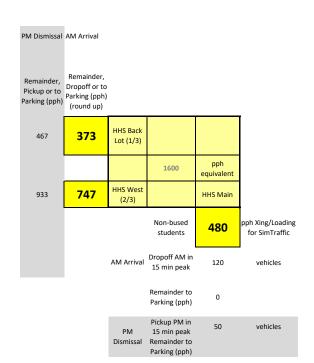
Figure A6-5: PM Peak Period Congestion Simulation (Run 4) Existing Conditions, Queues onto Geist Road, along Sandvik Street

Summary of Network Performance Measures for Fall Demonstration Project and at More Congested Intersections 1/3/2025 Table 1 v/c of v/c of v/c if Network Performance Measure concern EX AM v/c if Existing TCP3 Prediction Fall Demo Pr EX DISM TCP3 Prediction **AM Arrival PM Dismissal** Total Travel Time (hrs) Vehicle Miles of Travel (mi) VMT 714 794 768 691 Network changes in total Total Delay (hr)
Avg Delay per Vehicles (sec)
Total Vehicle STOPS
Fuel Used (gal)
Hydrocarbons (g) 24.1 23.3 22.9 27.5 29.7 28.5 network performance Total 61.7 68.1 63.4 63.0 58.8 58.3 when reassigning user 2656 34.1 groups internally Average delays per vehicle Carbon Monoxide (g) 20637 21072 20320 23755 20896 21250 decreased in network Nitrous Oxides (g) 1825 1841 1758 1616 1672 Intx # #6 Sandvik & WVHS Parking E 21.3 27.4 EB LT WB TR HHS Parking Exit 3 min delays, #8 HHS Spine & Front Pkg EB RT 14.5 152.0 removed by closure 44.2 WB LT 9.2 20.1 102.9 37.0 elays to NB Spine Exit inc WB RT 19.8 59.3 17.9 129.2 62.4 SB 12.0 54.2 #10 University & Sandvik EB LT 23.4 28.5 >=0.8 Demo inreased STOP delays 11.1 11.8 11.7 28.2 by 2 to 4 times WB LT 33.4 23.8 14.9 20.8 #11 University & Geist EB LT 50.6 47.8 47.2 48.5 44.6 No significant 35.1 9.8 38.6 11.0 41.7 11.6 31.1 7.9 32.9 8.7 28.8 8.2 change at major external 58.3 34.6 58.0 intersection SB LT 48.3 50.2 16.5 52.4 47.2 Delays #14 HHS W Spine & Geist SB LT 28.9 25.4 < 0.8 Fall Demo resolved v/c ratio SB RT 13.2 4.8 13.0 < 0.8 42.4 7.1 13.2 < 0.8 concerns at Geist and HHS Midblock turns more difficult NB LT 29.7 41.7 49.8 #16 McDonalds & Geist 26.1 46.0 #17 Rebecca & Geist Midblock turns remain difficult NB LT 32.2 42.7 30.0 40.8 44.1 51.5 >=0.8 #21 Fairbanks & Geist EB LT 35.4 49.2 35.7 43.5 32.5 25.5 No significant change FR TH 32.6 37.1 27.4 43.2 29.6 29.4 WB TH 23.2 23.6 22.7 22.7 28.3 27.4 SB LT 23.7 27.4 25.4 =0.8 25.3 24.6 21.0 < 0.8 Fall Demo helped SB LT v/c ratio Delays at HHS Main Entrance 81.0 67.6 NB LT+SB RT #24,#31 HHS Staff Pkg Main Entr 36.5 27.6 subject to downstream queues WVHS Main Entrance much mproved when West Loop is used to distribute demand, especially #33,#34 WVHS Main W Ped Xing SW TH 205.2 54.8 51.6 169.8 44.2 70.9 AM, but v/c > 0.8 Student parking in AM improved #32,#35 WVHS Student Pkg WB SW TH 47.9 22.6 17.8 23.7 9.9 22.3 with West Loop option #43 10.9 16.1 20.4 36.8 More delay with bus loads HHS Spine & CTC Back Lot 8.0 8.8 #6 Sandvik & WVHS Parking E EB LT 3 2 3 WB TR 17 #8 HHS Spine & Front Pkg EB RT 1 14 Fall Demo stored queues WB LT, RT 6 prevented backing onto Geist Rd EB LT Falll Demo parking restrictions #10 University & Sandvik 6 EB RT increased PM Dismissal WB LT STOP queues by 2 to 3 times EB LT #11 University & Geist No significant 12 EB TH 20 12 13 10 WB LT WB TH 10 11 10 10 SB LT 10 10 10 SB LT #14 HHS W Spine & Geist < 0.8 Fall Demo resolved v/c ratio < 0.8 SB RT < 0.8 < 0.8 concerns at Geist and HHS ಠ NB LT #16 McDonalds & Geist 5 9 6 4 6 5 #17 Rebecca & Geist NB LT Midblock turns remain difficult #21 Fairbanks & Geist FBIT WB TH 14 14 14 SB LT 11 17 10 < 0.8 Fall Demo helped SB LT v/c ratio Queues at HHS Main Entrance #24,#31 HHS Staff Pkg Main Entr NB LT+SB RT subject to downstream queues WVHS Main Entrance queues omewhat improved, but v/c > 0.8 #33,#34 WVHS Drop-off, Pick-up SW TH #32,#35 WVHS Student Pkg E Ped Xing SW TH 8 6 8 3 More queues with bus loads #43 HHS Spine & CTC Back Lot NB

# PEDESTRIANS "PER HOUR" used for calibration of crosswalks at conflicdt areas Existing Conditions



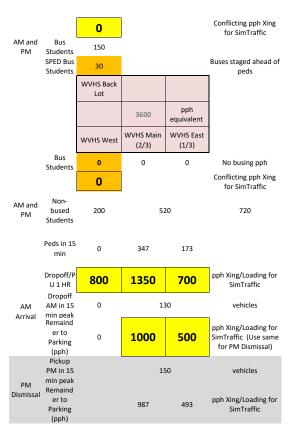
	Current		Capacity	
HHS	400	Students	500	Students
	(rounded			
	from 378)			



### 1/3/2025

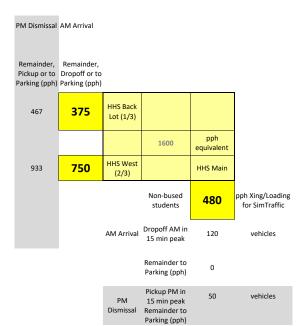
# PEDESTRIANS "PER HOUR" used for calibration of crosswalks at conflict areas Fall Demo TCP

		Current		Capacity	
WV	'HS	900	Students	1000	Students



ſ		Current		Capacity	
ſ	HHS	400	Students	500	Students
		(rounded			

from 378)



# 1/3/2025 INTX Existing AM, PM Dismissal

WVHS

33

Main Entrance

VOLUME SETTINGS	<u></u>	7	×	~	Ĺ	×
	NWL	NWR	NET	NER	SWL	SWT
	٦	~				41₽
<ul> <li>Traffic Volume (vph)</li> </ul>	0	0	0	0	0	183
<ul> <li>Development Volume (vph)</li> </ul>	0	0	0	0	0	0
<ul> <li>Combined Volume (vph)</li> </ul>	0	0	0	0	0	183
Future Volume (vph)	0	0	0	0	0	183
<ul> <li>Conflicting Peds. (#/hr)</li> </ul>	0	1920	_	1920	1920	_
<ul> <li>Conflicting Bicycles (#/hr)</li> </ul>	_	0	_	0	_	_
Peak Hour Factor	0.55	0.55	0.55	0.55	0.55	0.55
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00

WVHS

34 East Entranc

VOLUME SETTINGS	NWL	( NWR	≯ NET	NER	<b>≨</b> SWL	<b>⊭</b> SWT
Ø Lanes and Sharing (#RL)	ሻ	~				41
<ul> <li>Traffic Volume (vph)</li> </ul>	0	0	0	0	0	183
<ul> <li>Development Volume (vph)</li> </ul>	0	0	0	0	0	0
<ul> <li>Combined Volume (vph)</li> </ul>	0	0	0	0	0	183
Future Volume (vph)	0	0	0	0	0	183
<ul> <li>Conflicting Peds. (#/hr)</li> </ul>	0	960	_	960	960	_
<ul> <li>Conflicting Bicycles (#/hr)</li> </ul>	_	0	_	0	_	_
Peak Hour Factor	0.55	0.55	0.55	0.55	0.55	0.55
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00

WVHS

32

Main Pkg Xing

VOLUME SETTINGS	₩	×	)	<b>F</b>	×	₹	7	×	~	Ĺ	¥	*
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<ul> <li>Traffic Volume (vph)</li> </ul>	0	0	0	0	0	0	0	57	23	0	25	0
<ul> <li>Development Volume (vph)</li> </ul>	0	0	0	0	0	0	0	0	0	0	0	0
<ul> <li>Combined Volume (vph)</li> </ul>	0	0	0	0	0	0	0	57	23	0	25	0
Future Volume (vph)	0	0	0	0	0	0	0	57	23	0	25	0
<ul> <li>Conflicting Peds. (#/hr)</li> </ul>	1432	_	0	0	_	1432	0	_	0	0	_	1432
Conflicting Bicycles (#/hr)			0	e 50		0	_	_	0	_	_	0
Peak Hour Factor	Pedestrian	s per nou	r conflic	ting with	turns 55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**WVHS** 

35 E Pkg Xing

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<ul><li>Lanes and Sharing (#RL)</li></ul>		4			<b>√</b> 4			4			4	
<ul> <li>Traffic Volume (vph)</li> </ul>	0	0	0	0	0	0	0	57	0	78	25	0
<ul> <li>Development Volume (vph)</li> </ul>	0	0	0	0	0	0	0	0	0	0	0	0
<ul> <li>Combined Volume (vph)</li> </ul>	0	0	0	0	0	0	0	57	0	78	25	0
<ul><li>Future Volume (vph)</li></ul>	0	0	0	0	0	0	0	57	0	78	25	0
Conflicting Peds. (#/hr)	736	_	0	0	_	736	0	_	0	0	_	736
<ul> <li>Conflicting Bicycles (#/hr)</li> </ul>	_	_	0	_	_	0	_	_	0	_	_	0
Peak Hour Factor	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

HHS

43 CTC Back Lot

VOLUME SETTINGS	EBL	—► EBT	EBR	<b>√</b> WBL	<b>←</b> WBT	WBR	NBL	↑ NBT	NBR	SBL	↓ SBT	SBR
		~ <b>4</b>			4			4			4	
<ul> <li>Traffic Volume (vph)</li> </ul>	6	0	0	0	0	0	0	91	12	7	35	16
<ul> <li>Development Volume (vph)</li> </ul>	0	0	0	0	0	0	0	0	0	0	0	0
<ul> <li>Combined Volume (vph)</li> </ul>	6	0	0	0	0	0	0	91	12	7	35	16
Future Volume (vph)	6	0	0	0	0	0	0	91	12	7	35	16
<ul> <li>Conflicting Peds. (#/hr)</li> </ul>	0	_	0	375	_	0	375	_	375	375	_	375
<ul> <li>Conflicting Bicycles (#/hr)</li> </ul>	_	_	0	_	_	0	_	_	0	_	_	0
Peak Hour Factor	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

HHS

41 E-W Culinary Parking Xing

VOLUME SETTINGS	1	•	4	<b>†</b>	Ţ	4
1020112 021111140	EBL	EBR	NBL	NBT	SBT	SBR
	•	~		4	4	
<ul> <li>Traffic Volume (vph)</li> </ul>	2	0	0	101	23	12
<ul> <li>Development Volume (vph)</li> </ul>	0	0	0	0	0	0
<ul> <li>Combined Volume (vph)</li> </ul>	2	0	0	101	23	12
Future Volume (vph)	2	0	0	101	23	12
Conflicting Peds. (#/hr)	750	0	750	_	_	750
<ul> <li>Conflicting Bicycles (#/hr)</li> </ul>	_	0	_	_	_	0
Peak Hour Factor	0.55	0.55	0.55	0.55	0.55	0.55
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00

### **Existing AM, PM Dismissal** 1/3/2025 INTX

HHS 24

Main

VOLUME SETTINGS Entrance Traffic Volume (vph)

© Development Volume (vph) 0 Combined Volume (vph)
Future Volume (vph) 119 119 Conflicting Peds. (#/hr) 480 480 480 Conflicting Bicycles (#/hr) Peak Hour Factor 0.55 Growth Factor 1.00 1.00 1.00 1.00 1.00 1.00

**WVHS** 105

> West Zero

Buses staged ahead of conflict Loop and multipled to 4X per hour **Entrance** 

**WVHS** 111 Zero

> **SPED** Buses staged ahead of conflict and multipled to 4X per hour Back Staff arrives/leaves in off-peak Lot

# 1/3/2025 INTX TCP Fall Demo AM, PM Dismissal (rounded)

WVHS

33

Main Entrance

VOLUME SETTINGS	NWL	( NWR	≯ NET	<b>∕</b> NER	<b>€</b> SWL	<b>⊭</b> SWT
	ካ	~				414
<ul> <li>Traffic Volume (vph)</li> </ul>	0	0	0	0	0	132
<ul> <li>Development Volume (vph)</li> </ul>	0	0	0	0	0	0
<ul> <li>Combined Volume (vph)</li> </ul>	0	0	0	0	0	132
Future Volume (vph)	0	0	0	0	0	132
<ul> <li>Conflicting Peds. (#/hr)</li> </ul>	0	1350	_	1350	1350	_
<ul> <li>Conflicting Bicycles (#/hr)</li> </ul>	_	0	_	0	_	_
Peak Hour Factor	0.55	0.55	0.55	0.55	0.55	0.55
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00

WVHS

34 East Entranc

VOLUME SETTINGS	<b>F</b>	₹	×	~	Ĺ	×
VOESINE SETTINGS	NWL	NWR	NET	NER	SWL	SWT
	7	~				4₽
<ul> <li>Traffic Volume (vph)</li> </ul>	0	0	0	0	0	132
Development Volume (vph)	0	0	0	0	0	0
<ul> <li>Combined Volume (vph)</li> </ul>	0	0	0	0	0	132
Future Volume (vph)	0	0	0	0	0	132
<ul> <li>Conflicting Peds. (#/hr)</li> </ul>	0	700	_	700	700	_
<ul> <li>Conflicting Bicycles (#/hr)</li> </ul>	_	0	_	0	_	_
Peak Hour Factor	0.55	0.55	0.55	0.55	0.55	0.55
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00

WVHS

32 Main Pkg Xing

		<b>J</b>		1		×	#	×	-		(		<b>Y</b>
ı	VOLUME SETTINGS		X CET	OF D	<b>A</b>		VII.	7	<b>*</b>	74	C) - (I	C) - CT	
		SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
g	<ul><li>Lanes and Sharing (#RL)</li></ul>	**			ሻ	~			4			4	
9	<ul> <li>Traffic Volume (vph)</li> </ul>	0	0	0	12	0	0	0	43	58	8	11	0
	<ul> <li>Development Volume (vph)</li> </ul>	0	0	0	0	0	0	0	0	0	0	0	0
	<ul> <li>Combined Volume (vph)</li> </ul>	0	0	0	12	0	0	0	43	58	8	11	0
	<ul> <li>Future Volume (vph)</li> </ul>	0	0	0	12	0	0	0	43	58	8	- 11	0
	<ul> <li>Conflicting Peds. (#/hr)</li> </ul>	1000	_	0	0	_	1000	0	_	0	0	_	1000
	<ul> <li>Conflicting Bicycles (#/hr)</li> </ul>	_	_	0	_	_	0	_	_	0	_	_	0
	Peak Hour Factor	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
	<ul> <li>Growth Factor</li> </ul>	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

WVHS

35 E Pkg Xing

VOLUME SETTINGS	<b>4</b>	×	À	<b>F</b>	×	₹	7	×	~	Ĺ	×	*
	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
		4			√			4			4	
<ul> <li>Traffic Volume (vph)</li> </ul>	0	0	0	11	0	0	0	19	24	76	19	(
<ul> <li>Development Volume (vph)</li> </ul>	0	0	0	0	0	0	0	0	0	0	0	(
<ul> <li>Combined Volume (vph)</li> </ul>	0	0	0	11	0	0	0	19	24	76	19	(
<ul> <li>Future Volume (vph)</li> </ul>	0	0	0	- 11	0	0	0	19	24	76	19	(
<ul> <li>Conflicting Peds. (#/hr)</li> </ul>	500	_	0	0	_	500	0	_	0	0	_	500
<ul> <li>Conflicting Bicycles (#/hr)</li> </ul>	_	_	0	_	_	0	_	_	0	_	_	(
Peak Hour Factor	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
<ul> <li>Growth Factor</li> </ul>	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

HHS

43

Same

CTC Back Lot

HHS 41 E-W Same

Culinary Parking Xing

### TCP Fall Demo AM, PM Dismissal (rounded) 1/3/2025 INTX

Same

HHS 24

> Main Entrance

**WVHS** 105

> West Loop Entrance

VOLUME SETTINGS	ሻ	7	<b>-</b> *	7	4	*
	NBL	NBR	SEL	SER	SWL	SWR
<ul><li>Lanes and Sharing (#RL)</li></ul>	¥	~	¥		¥	
<ul> <li>Traffic Volume (vph)</li> </ul>	88	0	0	0	0	C
<ul> <li>Development Volume (vph)</li> </ul>	0	0	0	0	0	
<ul> <li>Combined Volume (vph)</li> </ul>	88	0	0	0	0	
<ul> <li>Future Volume (vph)</li> </ul>	88	0	0	0	0	
<ul> <li>Conflicting Peds. (#/hr)</li> </ul>	800	0	0	800	800	800
<ul> <li>Conflicting Bicycles (#/hr)</li> </ul>	_	0	_	0	_	0
Peak Hour Factor	0.55	0.55	0.55	0.55	0.55	0.55
<ul> <li>Growth Factor</li> </ul>	1.00	1.00	1.00	1.00	1.00	1.00

Zero **WVHS** 111

> Buses staged ahead of conflict SPED and multipled to 4X per hour Back Staff arrives/leaves in off-peak Lot