

Agenda

- Updated Trip Generation
- Additional TDM Commitments
- On-Site Queuing Analysis
- Site Traffic on Area Roadways
- Updated Mitigation Measures
- Next Steps
- Questions



Updated Trip Generation



Vehicle Trip Generation – No TDM Plan

	AM Peak Hour (8:00-9:00 AM)		PM School Peak Hour (2:45 – 3:45 PM)		PM Cmmtr Peak Hour (5:00-6:00 PM)	
	In	Out	In	Out	In	Out
Students	204	204	87	87	33	33
Faculty/Staff	0	0	0	0	0	39
Clinic	0	0	0	0	2	2
Total	204	204	87	87	35	74

Vehicle Trip Generation – Original TDM Plan

	AM Peak Hour (8:00-9:00 AM)		PM School Peak Hour (2:45 – 3:45 PM)		PM Cmmtr Peak Hour (5:00-6:00 PM)	
	In	Out	In	Out	In	Out
Students	173	173	74	74	28	28
Faculty/Staff	0	0	0	0	0	32
Clinic	0	0	0	0	2	2
Total	173	173	74	74	30	62

Represents a 15% reduction during all three peak hours



Vehicle Trip Generation – Original TDM Plan

	AM Peak Hour (8:00-9:00 AM)		PM School Peak Hour (2:45 – 3:45 PM)		PM Cmmtr Peak Hour (5:00-6:00 PM)	
	In	Out	In	Out	In	Out
Students	173	173	74	74	28	28
Faculty/Staff	0	0	0	0	0	32
Clinic	0	0	0	0	2	2
Total	173	173	74	74	30	62



Vehicle Trip Generation – Current TDM Plan

	AM Peak Hour (8:00-9:00 AM)		PM School Peak Hour (2:45 – 3:45 PM)		PM Cmmtr Peak Hour (5:00-6:00 PM)	
	In	Out	In	Out	In	Out
Students	112	112	74	74	28	28
Faculty/Staff	0	0	0	0	0	32
Clinic	0	0	0	0	2	2
Total	112	112	74	74	30	62

Represents a **35% Reduction** in AM Peak Hour Vehicular Trips compared to our last proposal

Represents a **45% Reduction** in AM Peak Hour Vehicle Trips compared to No TDM Plan



Transportation Management Plan



How Will River School Achieve Reduction?

New Commitments:

- Implement one of the following or some combination of the following:
 - Shuttle students in grades K 6 from off site location in AM
 - Potential location Wells Fargo or other commercial property on MacArthur Blvd
 - Increase mandatory carpooling for Kindergarten or older from 2 students per car to 3 students per car
 - Provide tuition discounts or subsidies for families who use Metro, walk, or bike to school



How Will River School Achieve Reduction?

Current Commitments:

- Bicycle amenities and incentives
 - Provide covered/secure bicycle parking
 - Provide bicycle repair station on campus
 - Provide bicycle subsidies or annual CaBi membership for faculty/staff
 Incorporate bicycle education into the phys ed curriculum
 - Host bike and walk to school events
 - Participate in Safe Routes to School Program

Transit Incentives

- Provide monthly transit subsidy for faculty/staff who take transit
- Enroll in Guaranteed Ride Home
- Carpooling Initiatives
 - Provide carpool matching assistance for students and faculty/staff
 - Register with Commuter Connections School Pool Program
 - Implement mandatory carpooling program with at least 2 students per car for grades K - 6

Monitoring Plan

- Meet with ANC quarterly to discuss any transportation related concerns of the community
- Conduct annual studies to ensure transportation commitments are being met
- If commitments are met over time, studies gradually phase out
- If study reveals deficiencies, School will meet with ANC and DDOT to develop and implement remedial strategies to correct issues



Monitoring Plan - Enhancements

- More aggressive timeline for monitoring
 - Year 1: two times each semester, 1st monitoring study must be completed by October 15th
 - Beginning Year 2: monitoring study must be completed by October
 15th
 - If requirements are <u>not</u> met:
 - Five days after submission of study to request meeting with ANC 3E and DDOT
 - 30 days to hold meeting (subject to availability of ANC 3E reps and DDOT)
 - River School shall make diligent efforts to implement remedial strategies (Enhanced Strategies) within 30 days of meeting
 - 2nd monitoring study must be completed in Spring Semester to ensure Enhanced Strategies are working



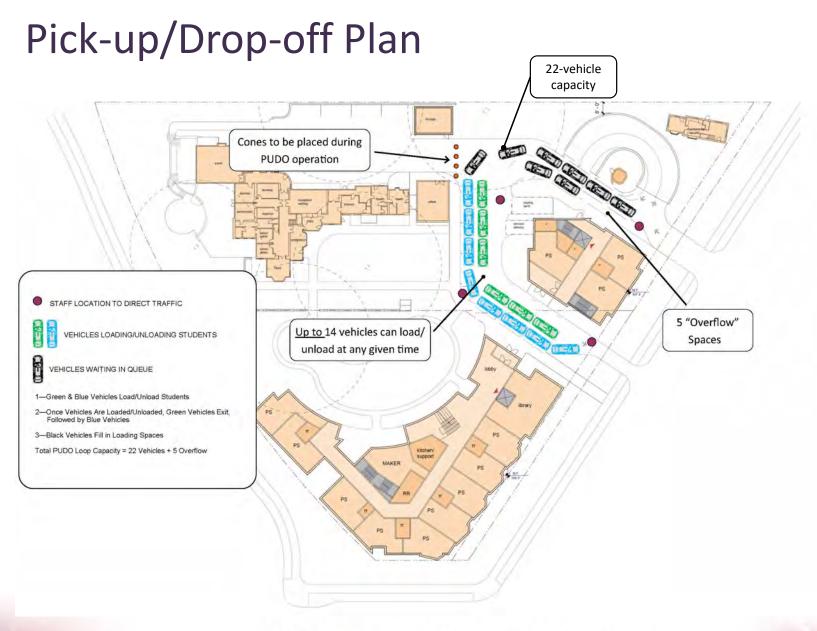
Monitoring Plan - Enhancements

- Identification of specific Enhanced Strategies to be implemented if requirements are <u>not</u> met
 - Enhanced Strategy #1
 - Reduce the number of PUDO passes issued to parents
 - Lease off-site parking within ½-mile at the school's expense for use as short-term parking/PUDO spaces for parents
 - Enhanced Strategy #2
 - Convert all spaces in the garage except for tandem spaces and the ADA spaces to short-term parking for PUDO operation
 - Lease off-site parking within ⅓-mile at the school's expense for River School faculty and staff
 - Modify the PUDO lane to use a single stacking lane with a bypass lane to allow garage PUDO traffic to bypass the queue lane
 - Enhanced Strategy #3
 - Increase mandatory carpooling requirement from two students per vehicle to three students per vehicle for families still dropping off or picking up students on campus

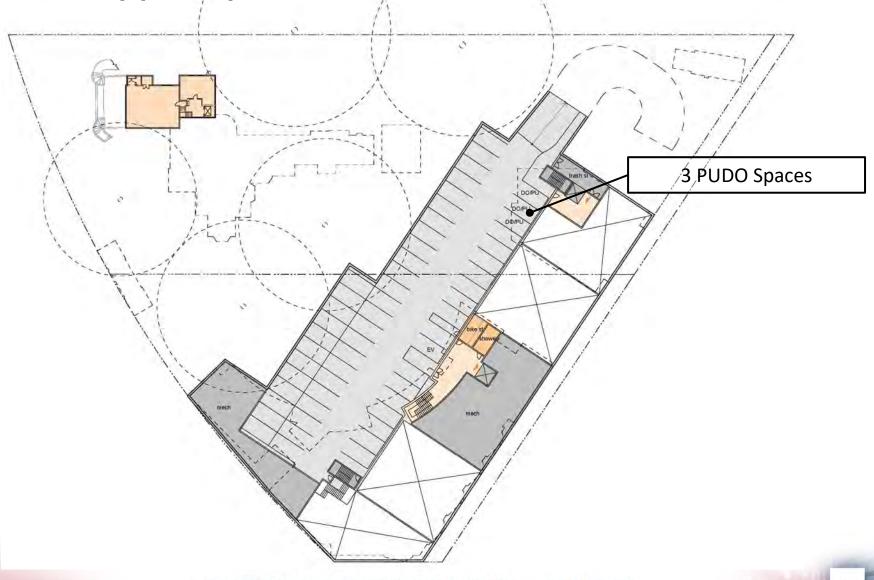


On-Site Queuing Analysis





Pick-up/Drop-off Plan



Queuing Model – Two Methods

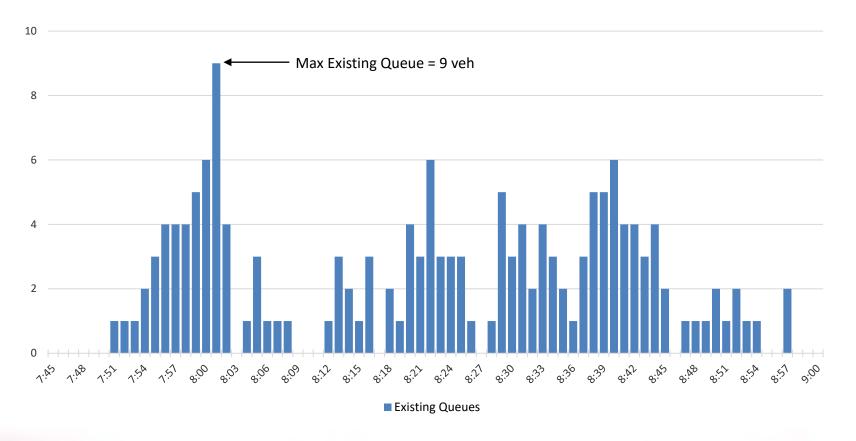
- M/M/1 Queue Model
 - $Q_{99} = [ln (1-0.99)/ln (p)] 1$
 - Statistical model based on exponential arrivals
 - All arrivals occur randomly and independent of each other
 - First-In/First-Out service
 - Calibrated based on data collected at existing school
- Extrapolation Method
 - Uses minute-by-minute queues at existing school
 - Extrapolates projected queues based on projected trip generation for the new school



Existing AM Peak Hour

Total number of vehicles dropping off = 88

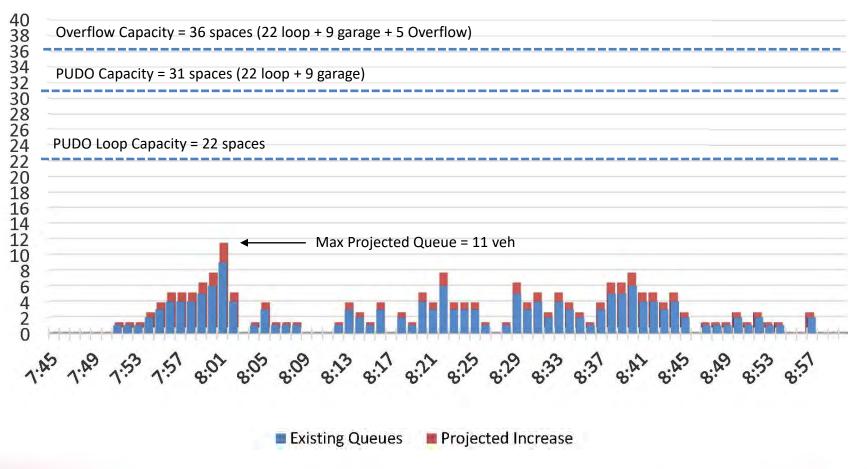
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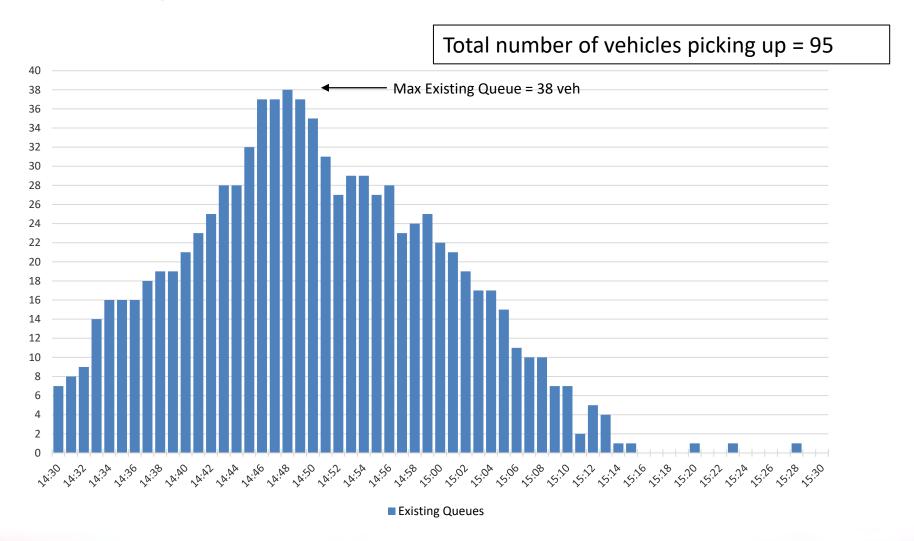
Projected AM Peak Hour

Total number of vehicles dropping off = 112



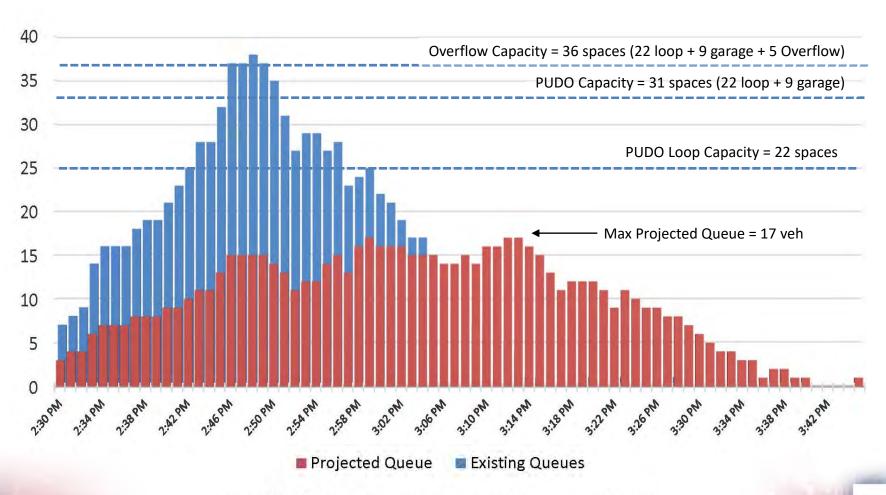


Existing PM Peak Hour



Projected PM Peak Hour

Total number of vehicles picking up = 74



Summary

	M/M/1 Model	Extrapolation	Capacity*
AM Peak Hour	12	11	31
PM Peak Hour	11	17	31

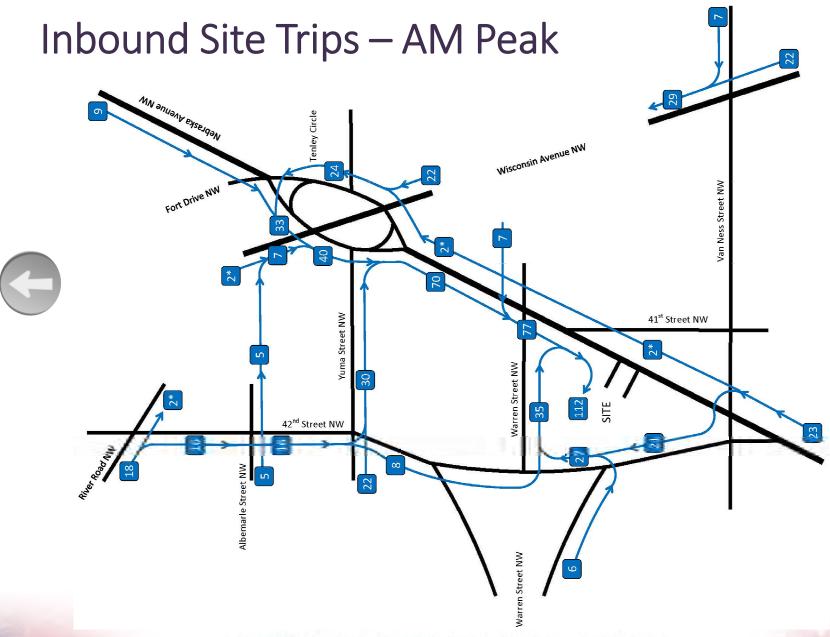
^{*} Capacity includes loop capacity plus three spaces in garage. It does <u>not</u> include overflow capacity of 5-7 vehs

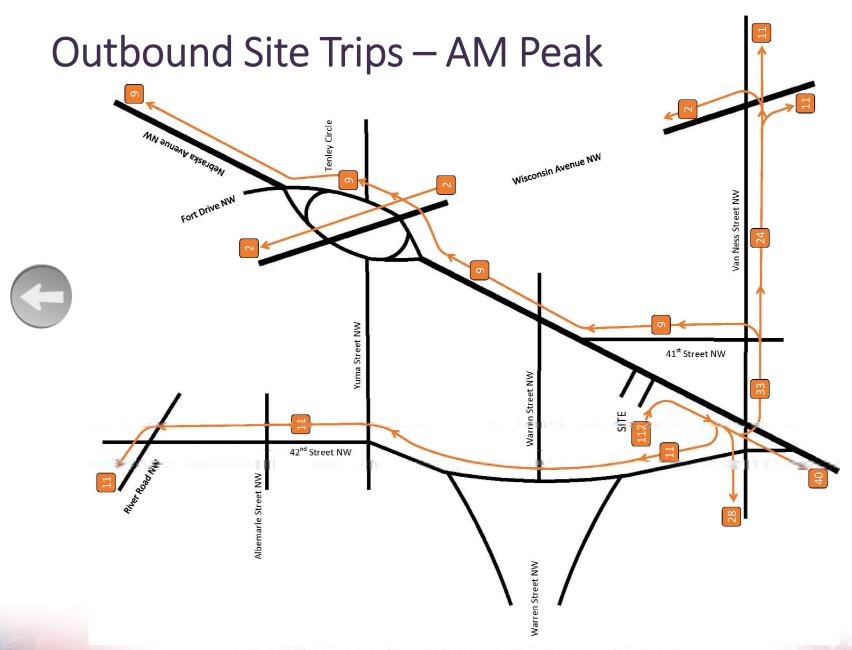
With a maximum projected queue of 17 vehicles, the proposed PUDO capacity will be 82% higher than needed to accommodate the queue.

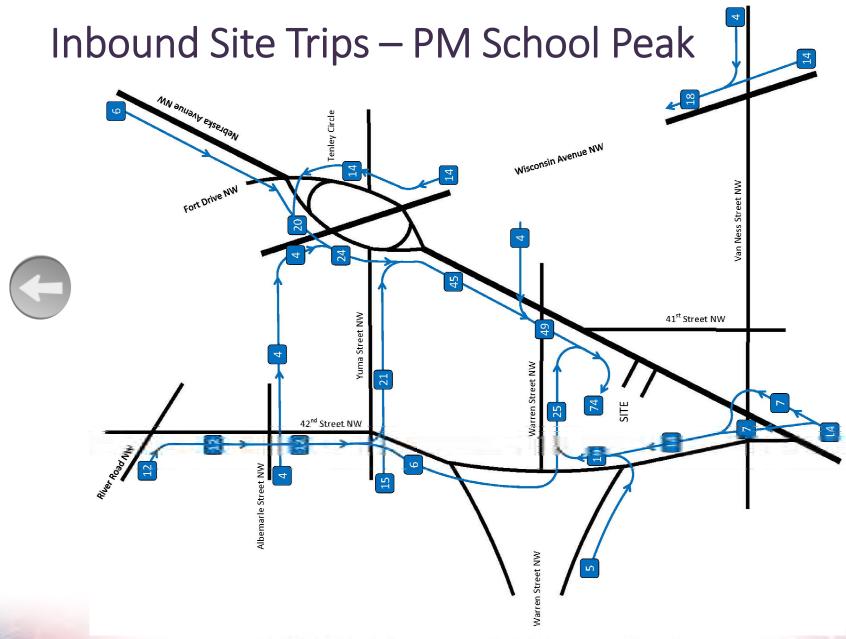


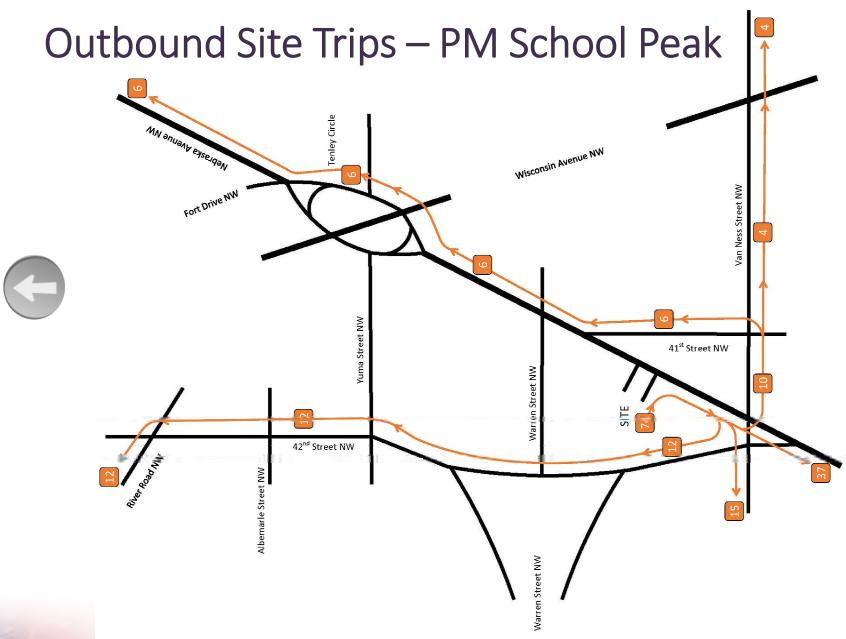
Proposed Site Traffic

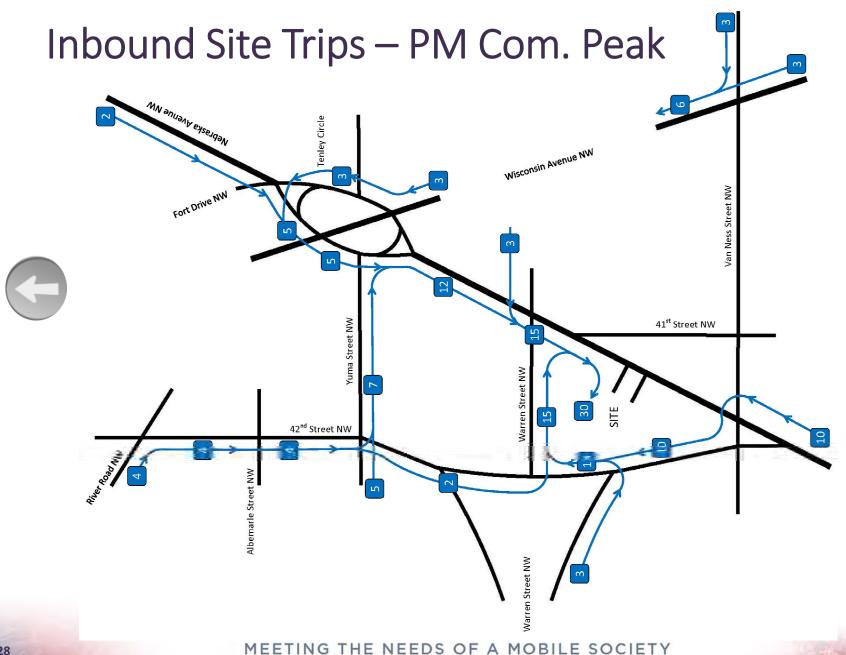


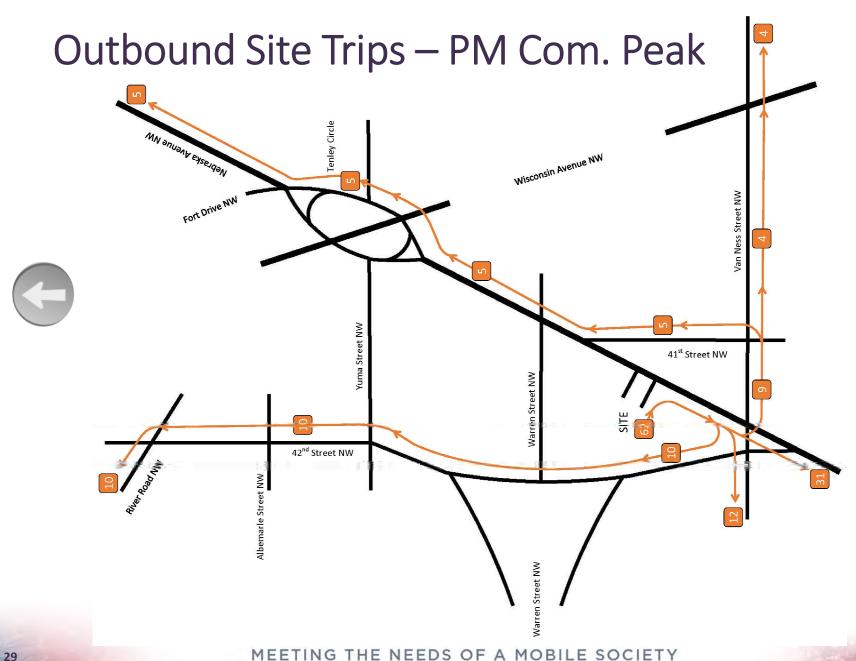








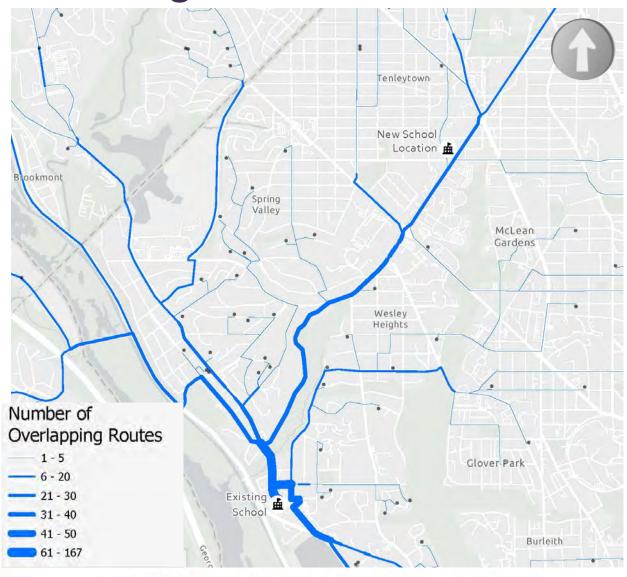




Existing Site Traffic



Trips to Existing School

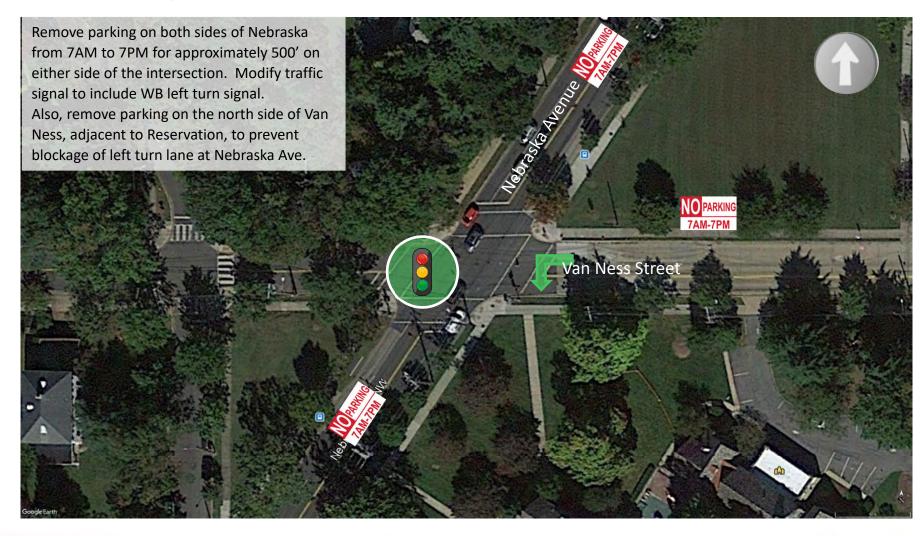




Proposed Mitigation Measures

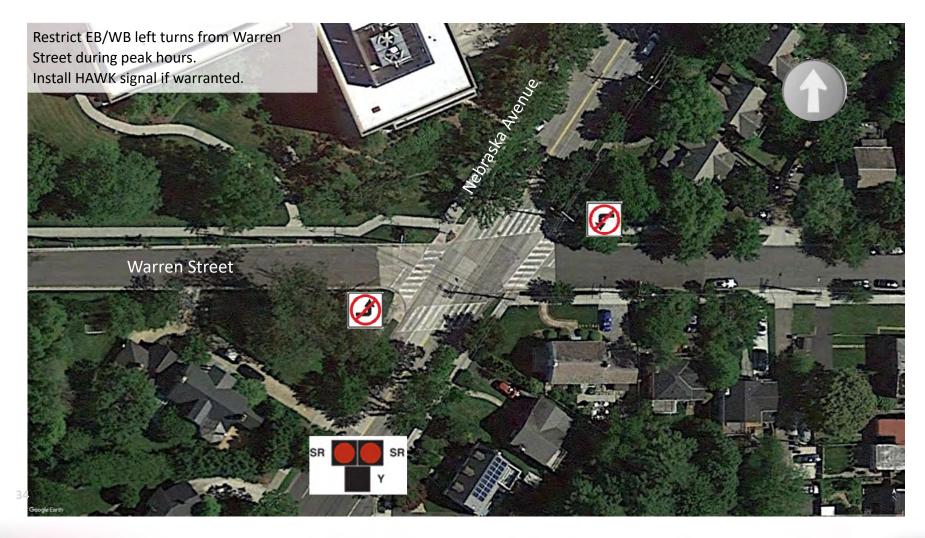


Proposed Capacity Improvements – Nebraska/Van Ness





Proposed Capacity Improvements – Nebraska/Warren





Other Improvements

- 41st Street and Nebraska Avenue
 - Replace YIELD Sign with STOP sign and install No Left Turn Sign



- 42nd Street
 - Potential Traffic Calming



Next Steps



Next Steps

- Submit CTR to DDOT September 10th
- October 6th ANC 3D meeting
- October 14th ANC 3E meeting
- October 27th BZA Hearing



QUESTIONS?

