

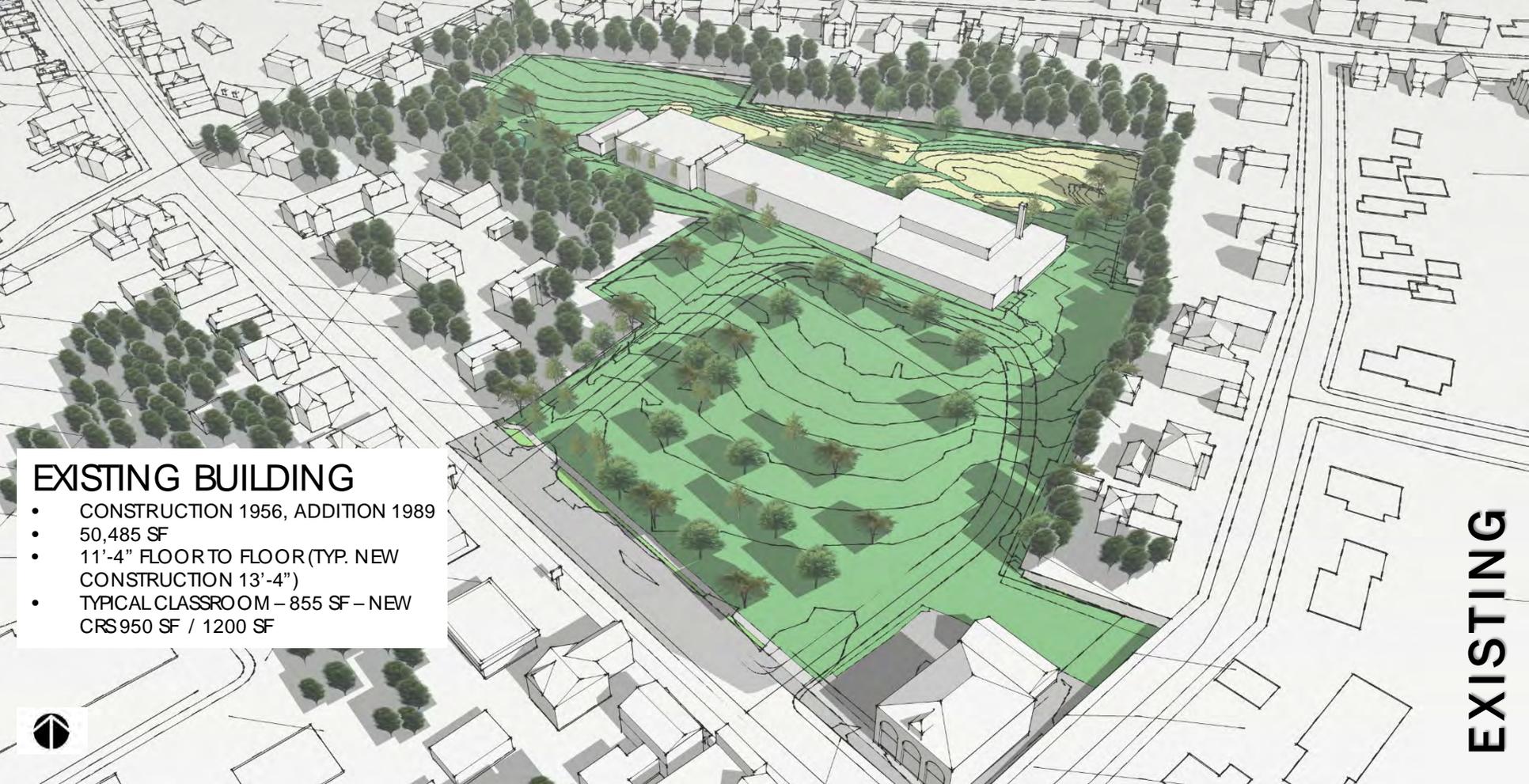


ONE COMMUNITY SCHOOL
WINTHROP ABUTTERS MEETING

DECEMBER 8, 2016



Perkins Eastman | **DPC**



EXISTING BUILDING

- CONSTRUCTION 1956, ADDITION 1989
- 50,485 SF
- 11'-4" FLOOR TO FLOOR (TYP. NEW CONSTRUCTION 13'-4")
- TYPICAL CLASSROOM – 855 SF – NEW
CRS 950 SF / 1200 SF

EXISTING



W3.B ADDITION/RENOVATION

One Community School

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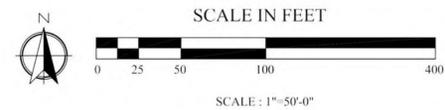


ONE COMMUNITY SCHOOL

Option W3.B

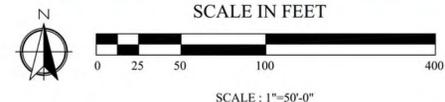
Legend

- Playground
- Play Fields
- Meadow/Bioswale
- Outdoor Learning





W2A.1



Legend

- Playground
- Play Fields
- Meadow/Bioswale
- Outdoor Learning



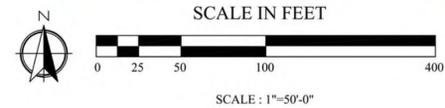
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Option W2A.1

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W2A.2



Legend

- Playground
- Play Fields
- Meadow/Bioswale
- Outdoor Learning



ONE COMMUNITY SCHOOL

Option W2A.2

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W2A.3

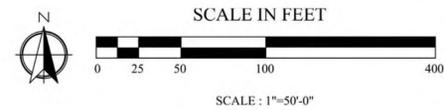


ONE COMMUNITY SCHOOL

Option W2A.3

Legend

- Playground
- Play Fields
- Meadow/Bioswale
- Outdoor Learning





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W2A.4



W2A.4



W2A.4



W2A.4



W2A.4



W2A.4



W2A.4



W2A.4



W2A.4

SCOPE OF VHB'S TRAFFIC REVIEW

- Develop a comprehensive scope with iterative input
- Perform field inventories of current roadway conditions
- Collect detailed traffic data on the roadways
- Observe morning and afternoon peak operations at both schools
- Analyze current conditions
- Estimate future traffic conditions after school consolidation
- Quantify impacts and identify opportunities for improvements
- Explore ways to reduce vehicular traffic to the school
- Identify potential parking opportunities

SCOPE OF TODAY'S TRAFFIC DISCUSSION

- ❑ where are we in the process?
- ❑ Some of the **DRAFT** data summaries we have developed to date
- ❑ Initial thoughts on what potential issues to address in the study
- ❑ Next steps

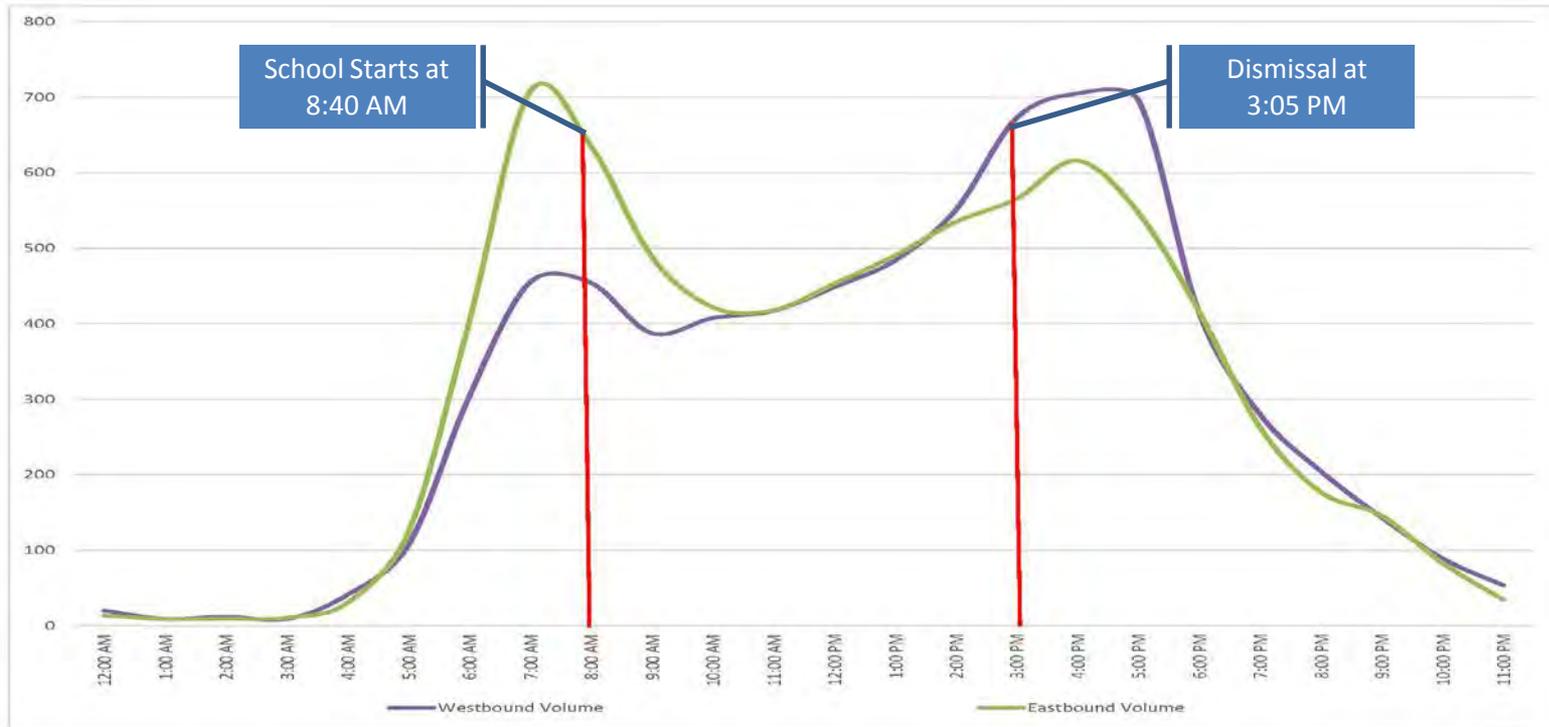
TRAFFIC STUDY AREA

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Source: ArcGIS Bing Aerial

CENTRAL STREET - HOURLY TRAFFIC VOLUME



- ❑ Distinct commuter peaks
- ❑ School start/end times are slightly offset from the peaks

5-YEAR VEHICLE CRASH DATA

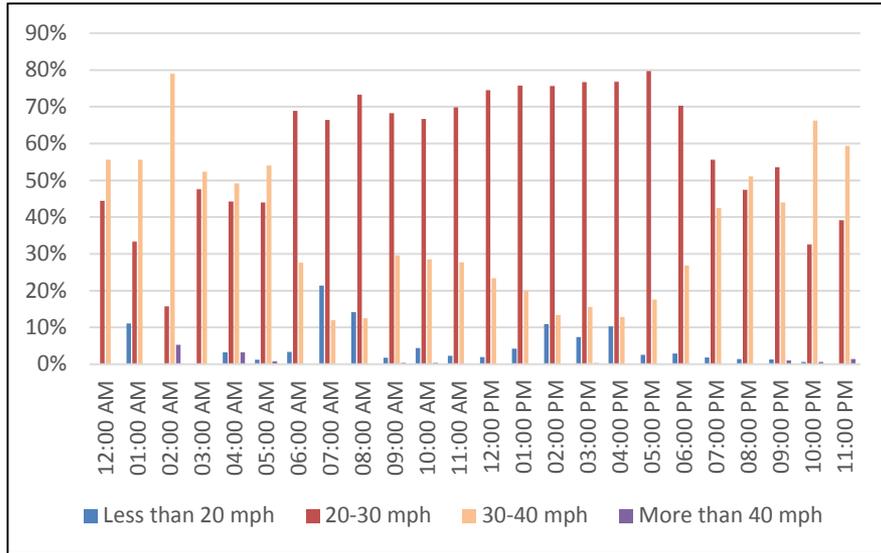
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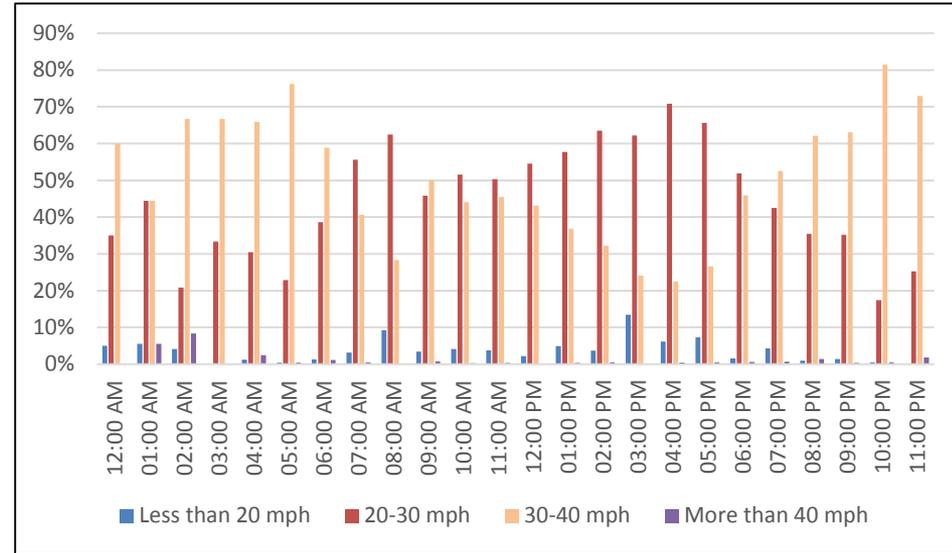
Source: ArcGIS Bing Aerial

CENTRAL STREET – SPEED PROFILE

EASTBOUND

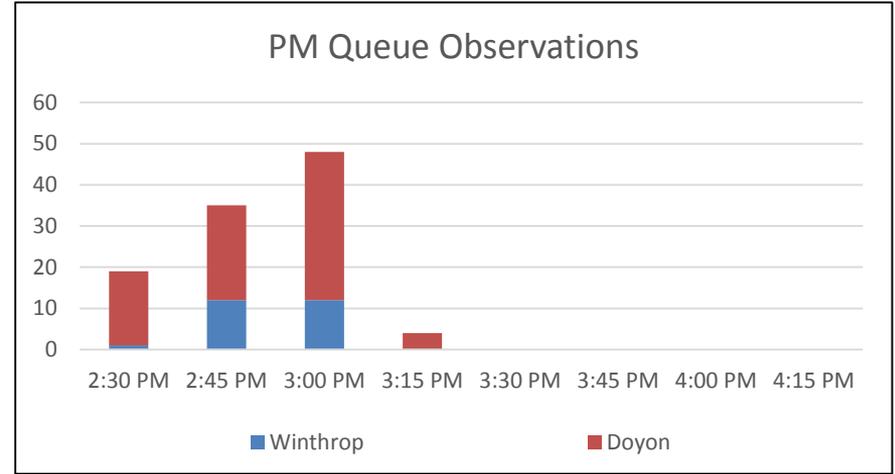
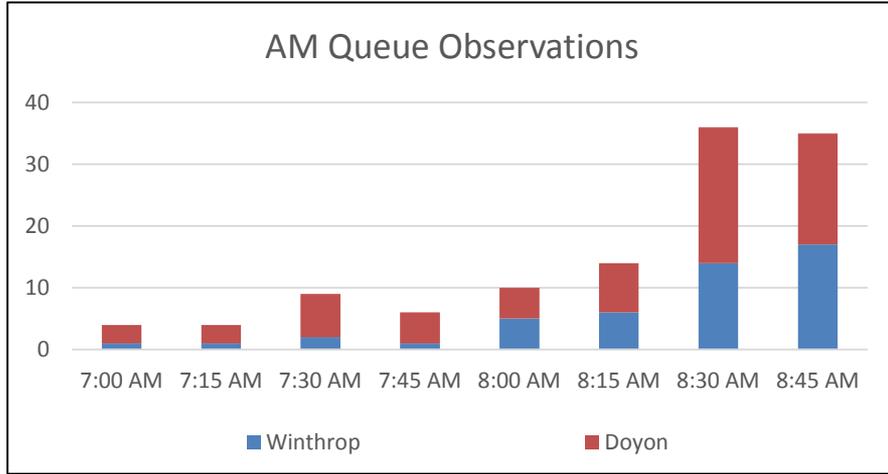


WESTBOUND



- ❑ Posted speed limit on the roadway: 25 mph
- ❑ 85th percentile speed in the order of 31 to 32 mph; higher speeds during off-peak hours
- ❑ Westbound speeds higher than in the eastbound direction

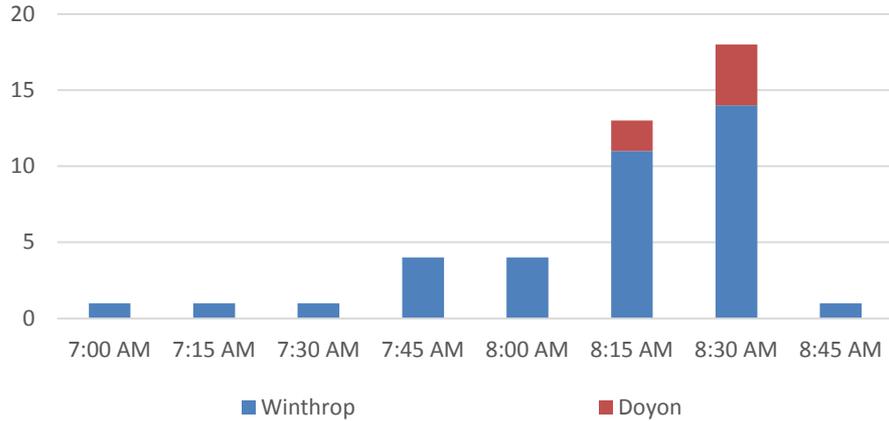
QUEUES AT EACH SCHOOL



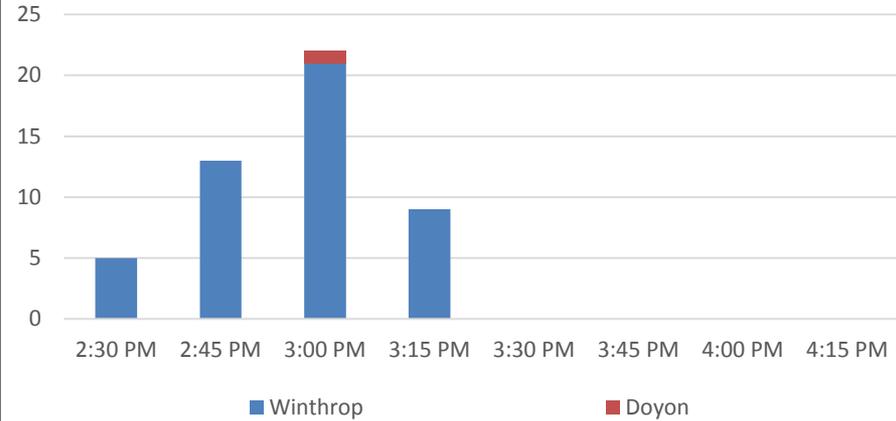
- Combined maximum queue in the order of 1,000 feet
- Does not fully account for on-street drop-off
- Poor weather conditions could likely increase the queue length

PEDESTRIAN ACTIVITY TO/FROM EACH SCHOOL

AM Pedestrian Observations

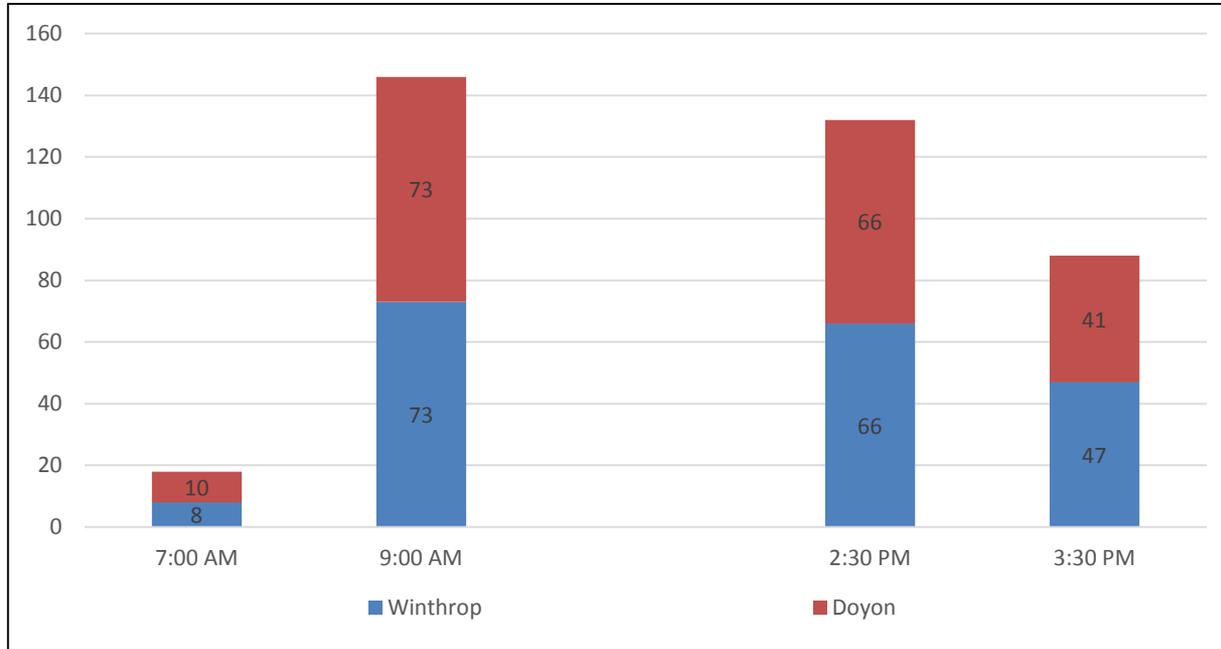


PM Pedestrian Observations

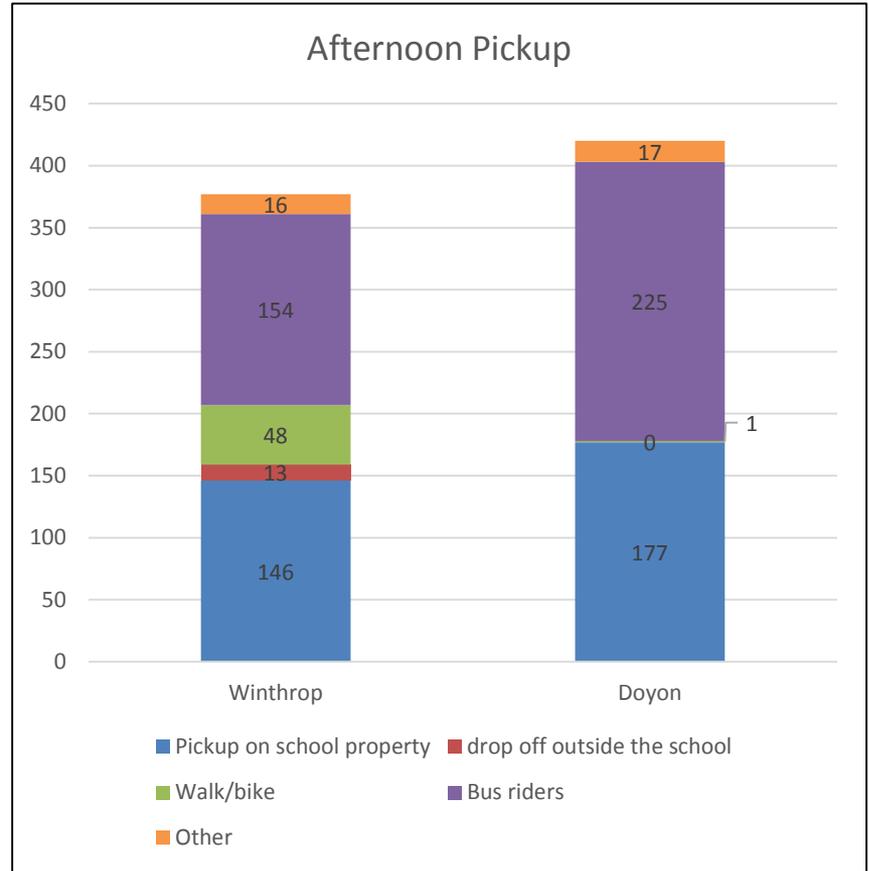
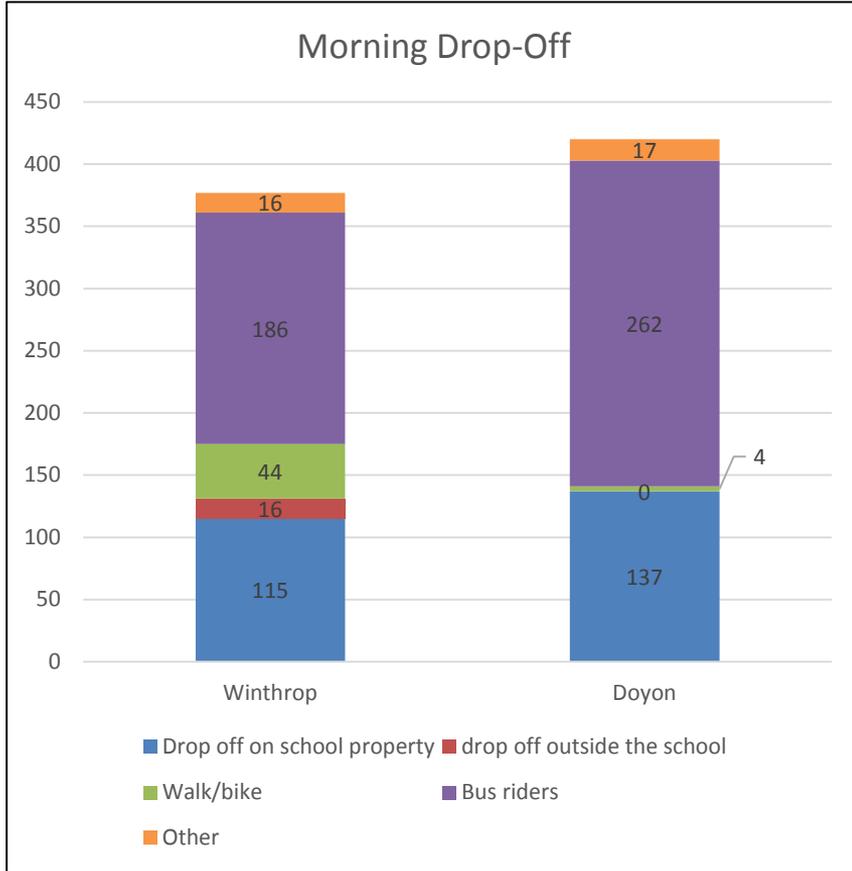


- Majority of pedestrian activity at Winthrop School, as expected
- Some of these could change to vehicular trips in poor weather conditions

PARKING DEMAND



APPROXIMATE MODE SPLIT (NOT FINAL)



KEY AREAS OF FOCUS GOING FORWARD

- Queue management
- Pick-up / drop-off operations
- Separation of parent vehicles and busses
- Parking shortfall
- Physical roadway improvement needs
- Consideration of vehicular traffic reductions