

# 20<sup>th</sup> Street Network Review





# Presentation Outline

- Problem Background
- Existing Conditions
  - Truck Route Network
  - Land Use Review
  - Traffic Volume Data
  - One Way Network
- Potential Alternatives
- Potential Next Steps



# Problem Background

- 20<sup>th</sup> Street residents signed a petition requesting that NYCDOT investigate making 20<sup>th</sup> Street one-way due to property damage from traffic on the two way street.
- Feb 2010 Letter from CB7 to NYCDOT Transportation Committee requested that the Department undertake a study to analyze making the 20th Street local truck route one-way between 3rd and 7th Avenues.

# Existing Conditions –Street Widths

- 17<sup>th</sup> St (30 feet) one-way
- 18<sup>th</sup> St (30 feet) one-way
- 19<sup>th</sup> St (30 feet) one-way
- 20<sup>th</sup> St (33 feet) two-way
- 21<sup>st</sup> St (30 feet) one-way
- 22<sup>nd</sup> St (30 feet) one-way

All of these streets allow  
parking on both sides





# Existing Conditions - 20<sup>th</sup> Street



10.2

# Existing Conditions - 20<sup>th</sup> Street





# Existing Conditions - 20<sup>th</sup> Street at 6<sup>th</sup> Avenue



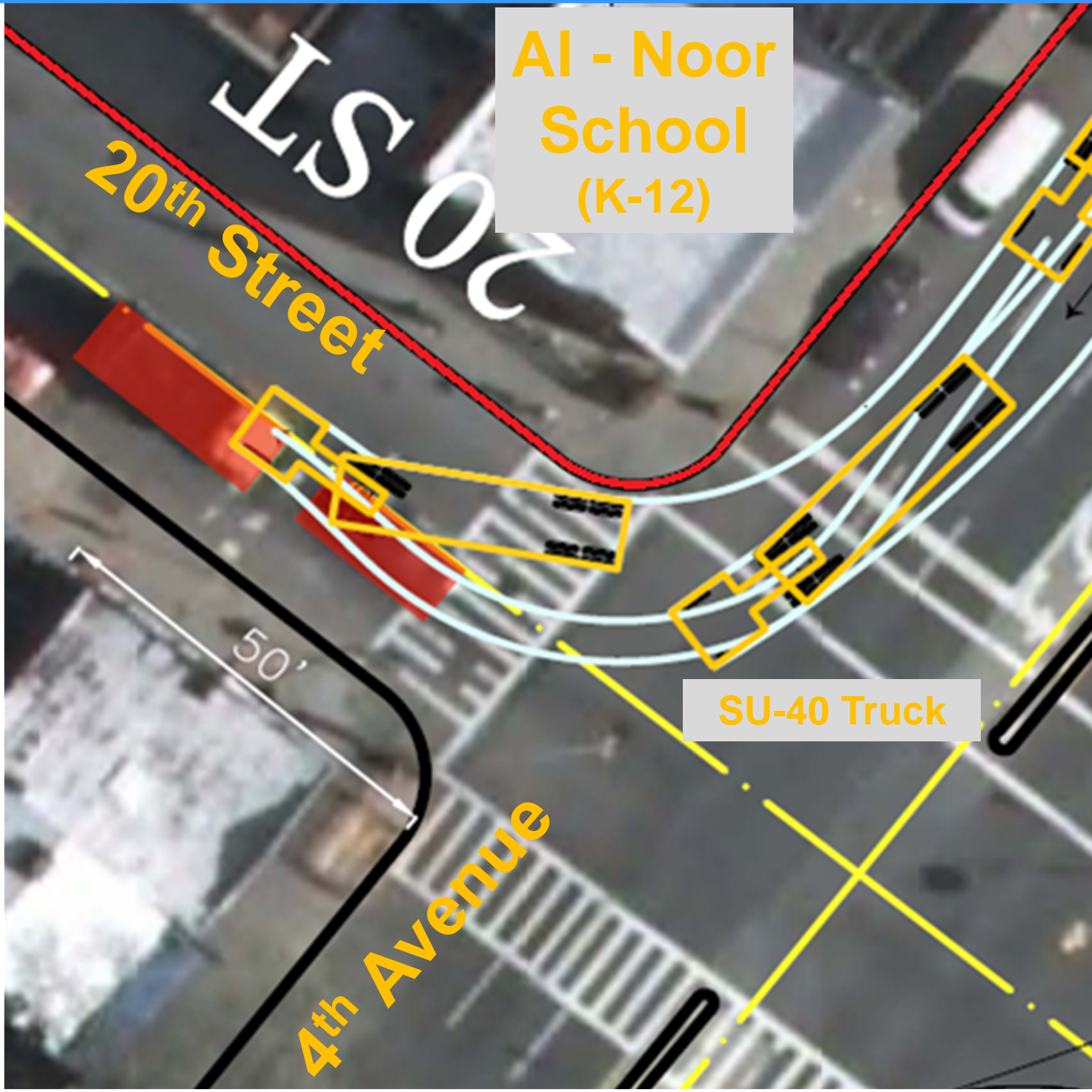


# Existing Conditions - 4<sup>th</sup> Avenue at 20<sup>th</sup> St





# Existing Conditions - 20<sup>th</sup> Street at 4<sup>th</sup> Ave



# Existing Conditions – Truck route networks





# Local and Through Truck Routes

## – Local Truck Routes

- For use by trucks with an origin or destination within the respective Borough
- Trucks may operate on non-designated streets for the purpose of arriving at their destination

## – Through Truck Routes

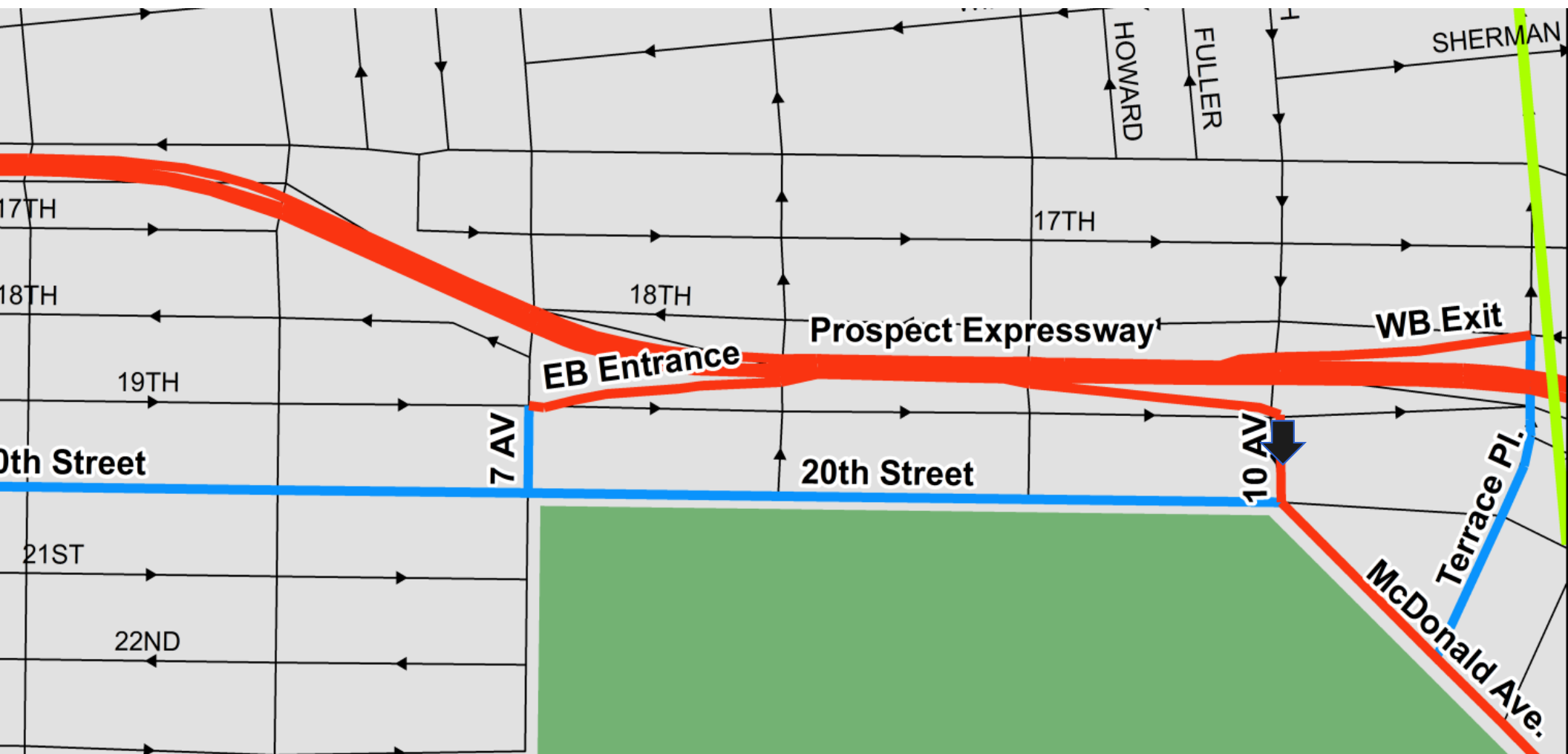
- For use by trucks with neither an origin nor a destination within the respective Borough

# Existing Conditions – Truck route networks

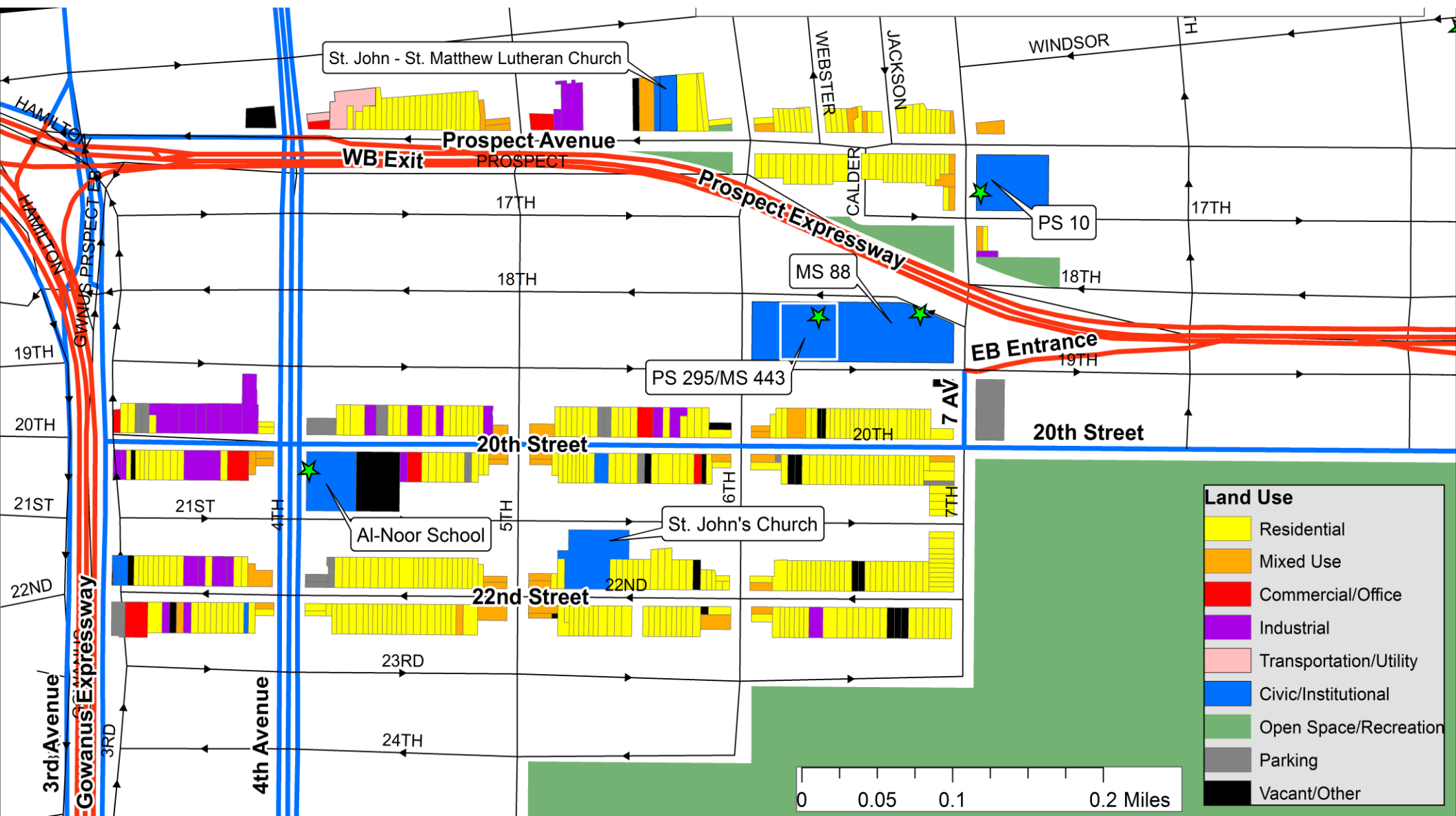




# Existing Conditions – Truck route networks

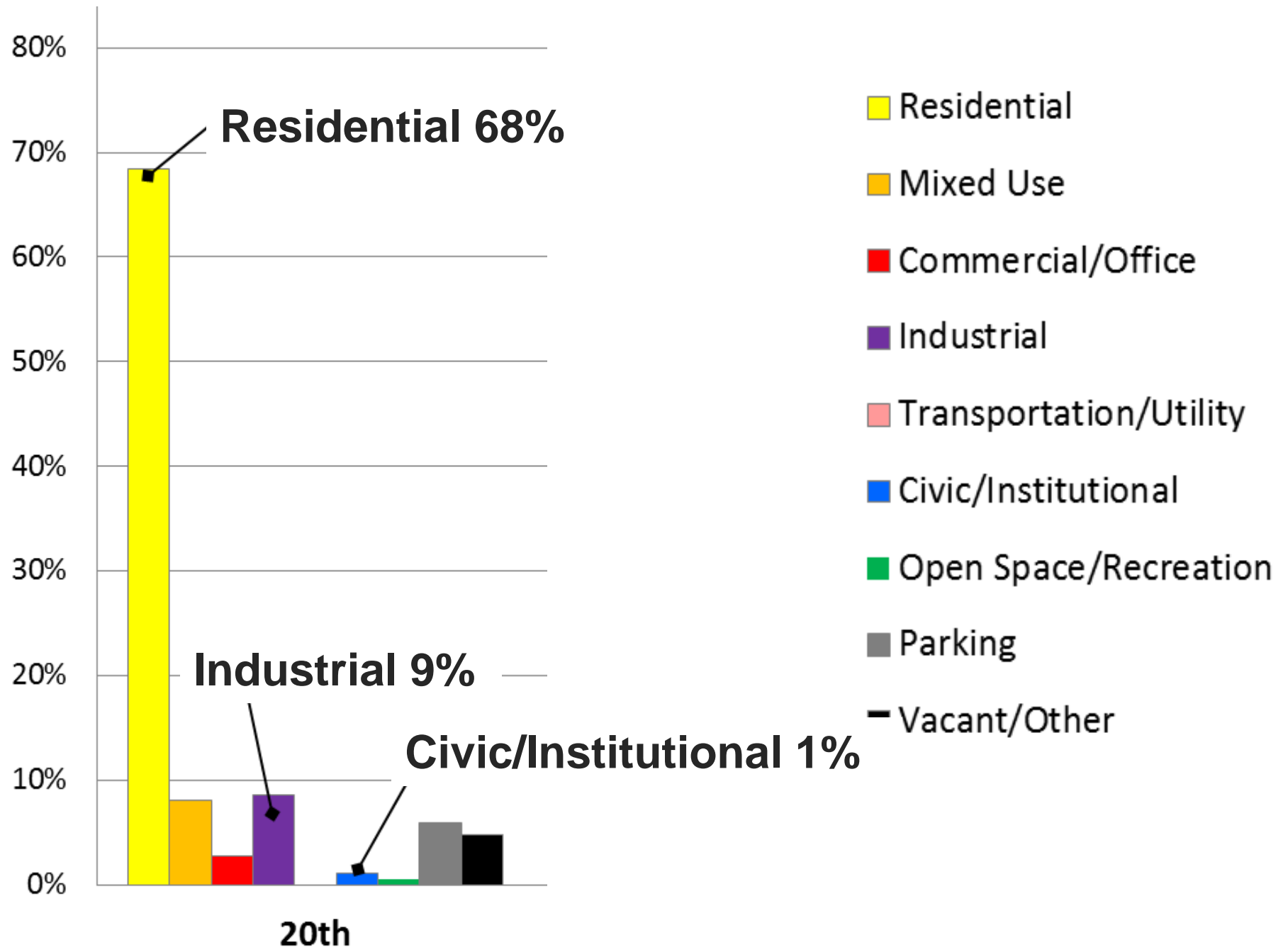


# Land Uses – 20<sup>th</sup> Street from 3<sup>rd</sup> Ave to 7<sup>th</sup> Ave

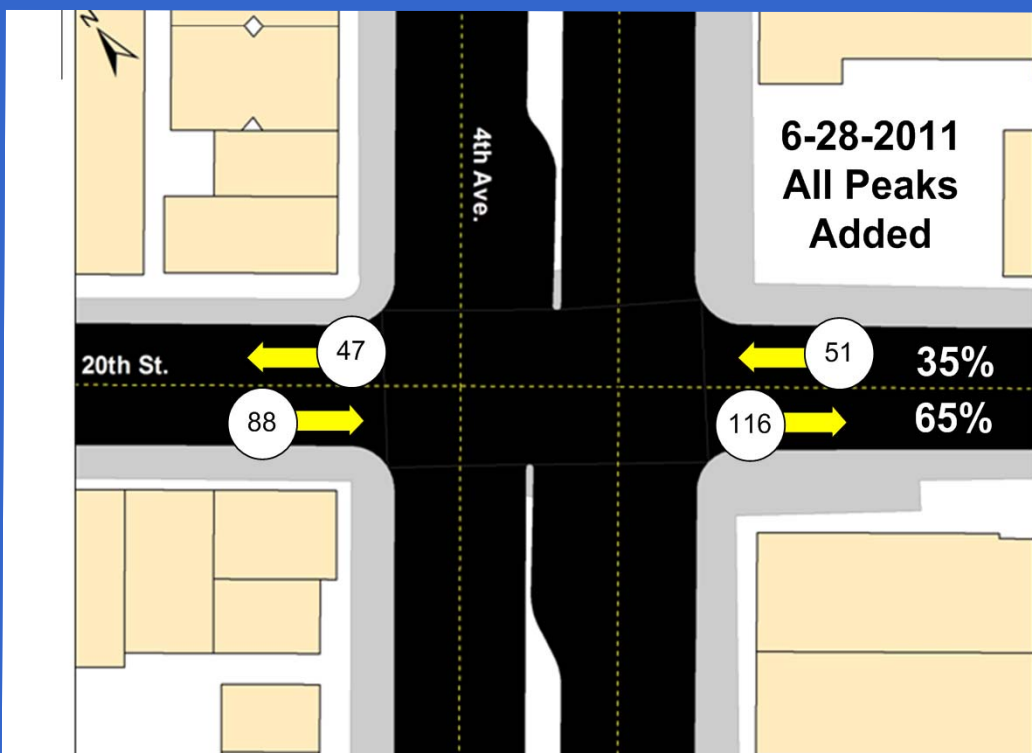
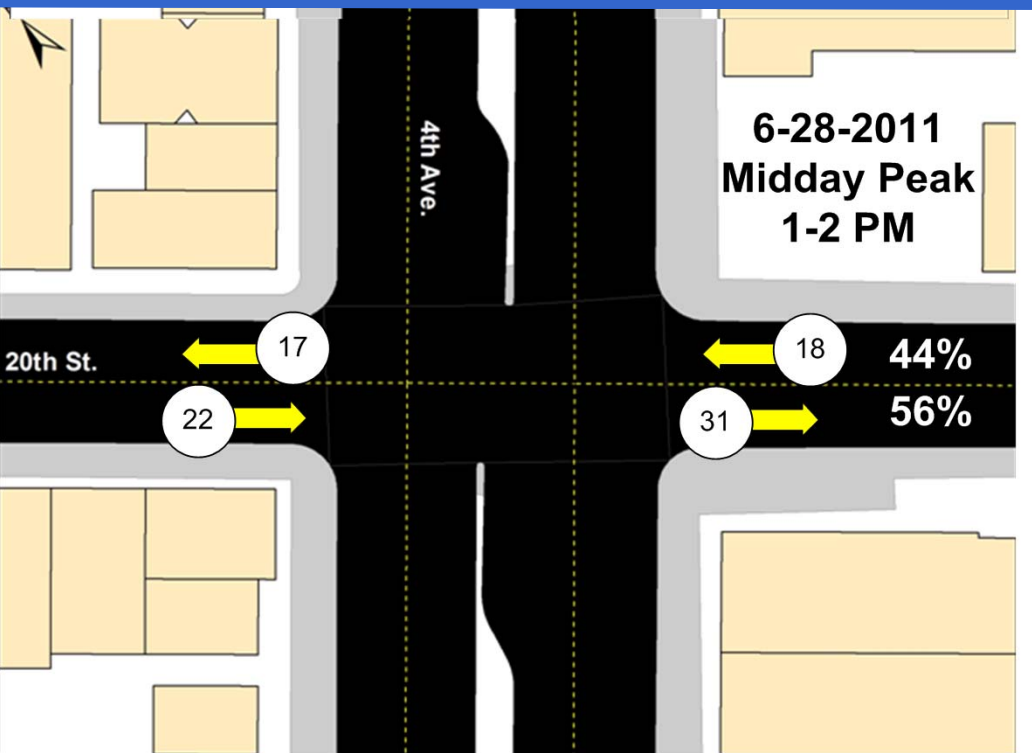
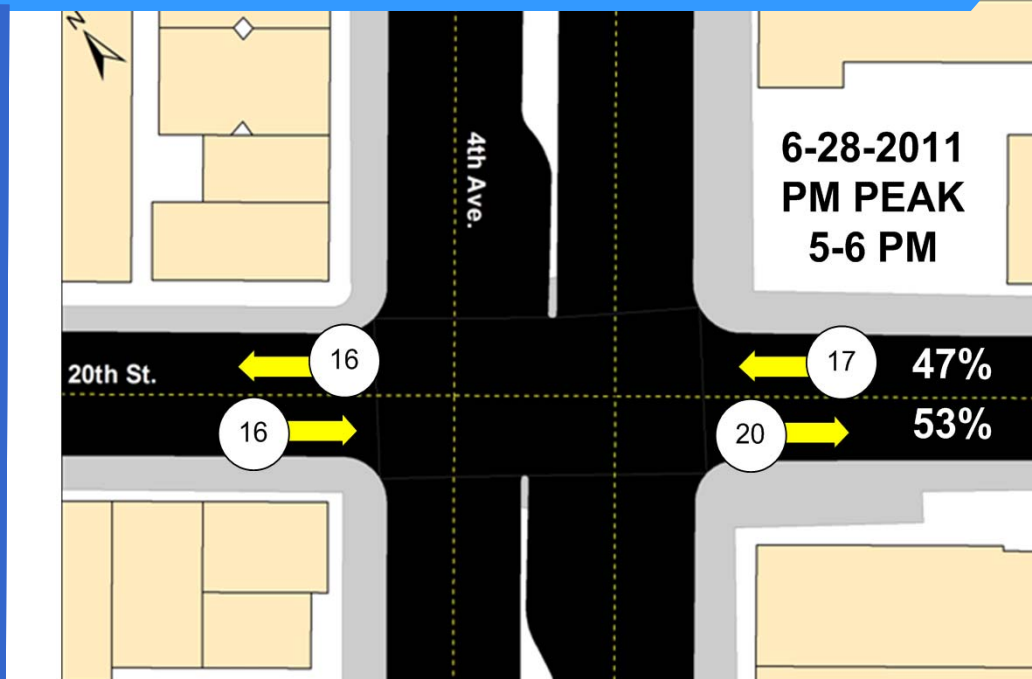
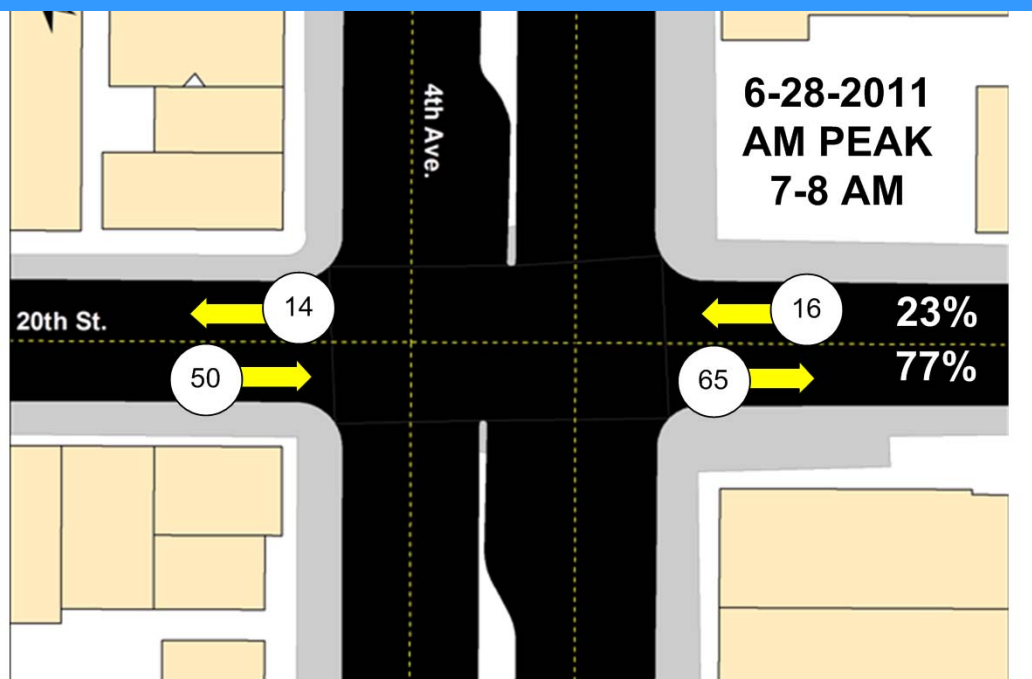




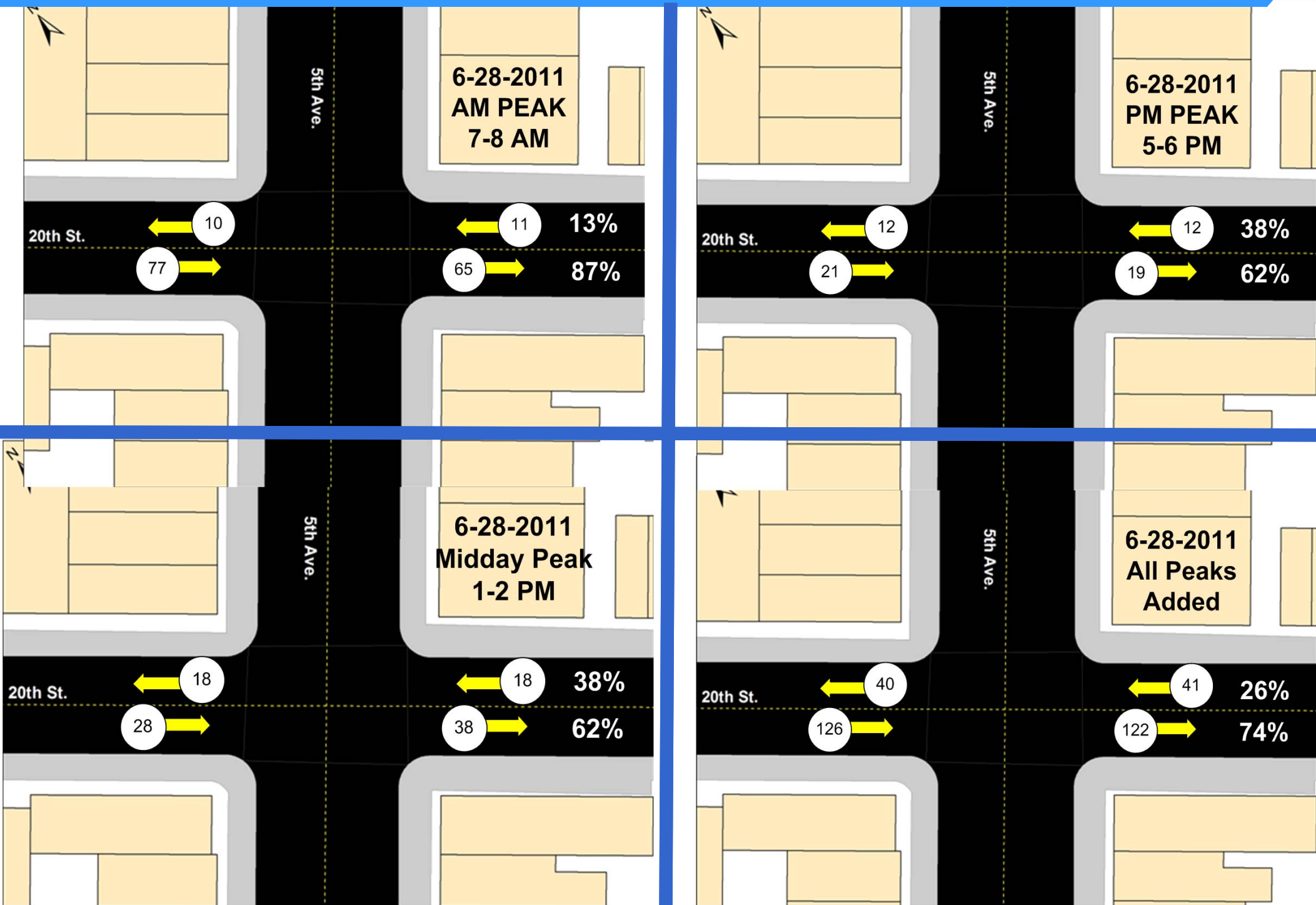
# Land Uses – 20<sup>th</sup> Street from 3<sup>rd</sup> Ave to 7<sup>th</sup> Ave



# Truck Volumes – 20<sup>th</sup> Street at 4<sup>th</sup> Avenue

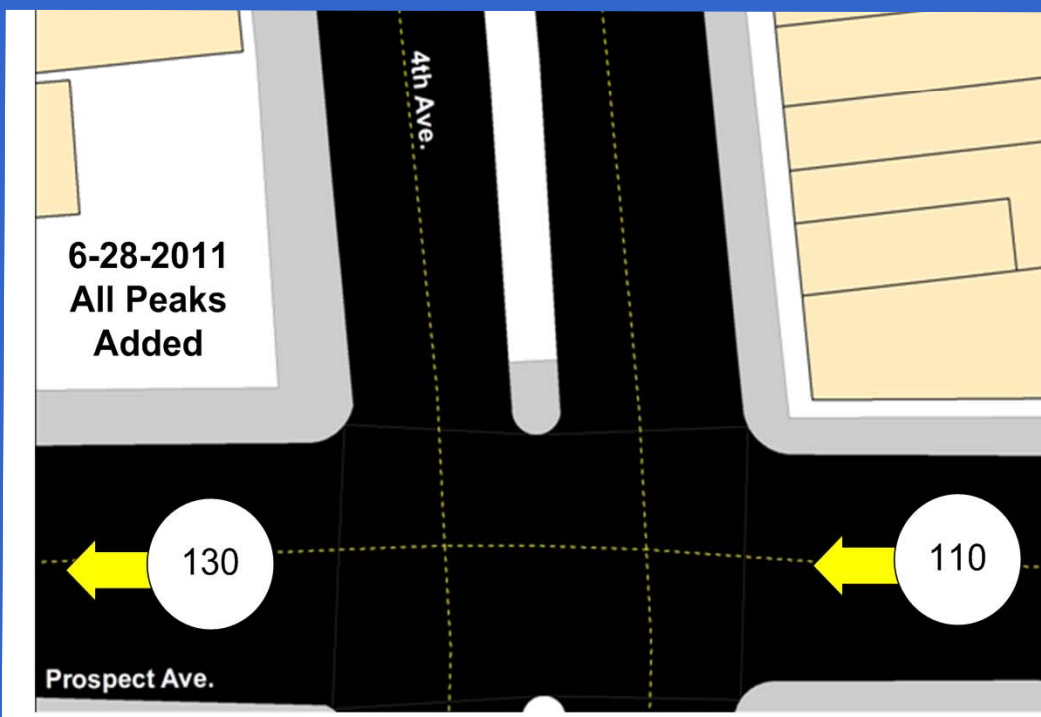
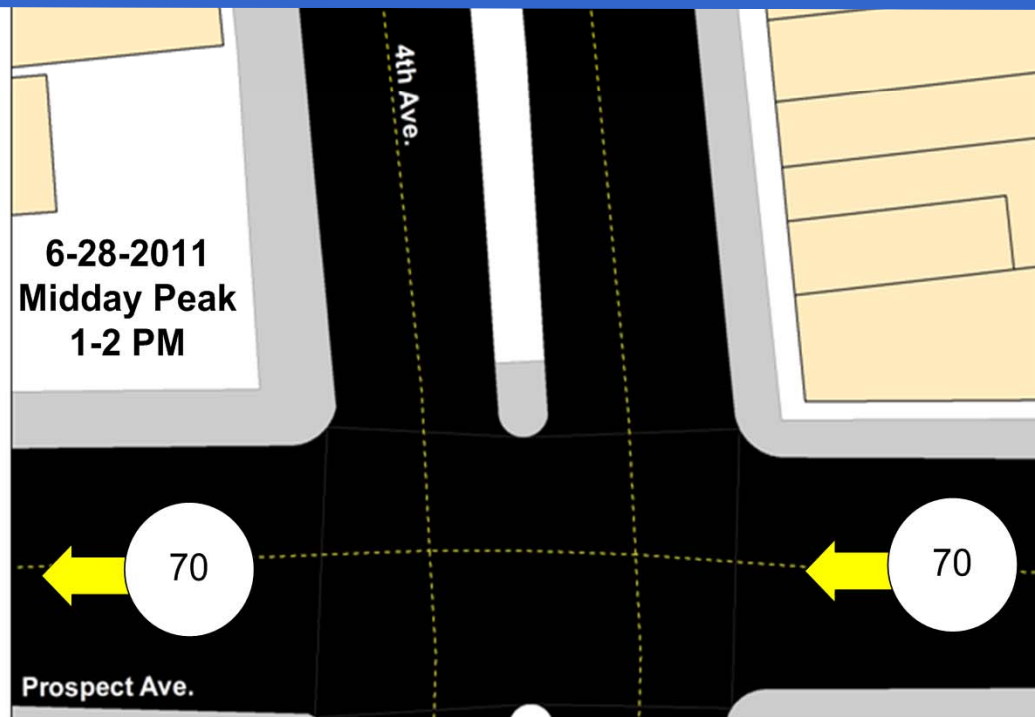
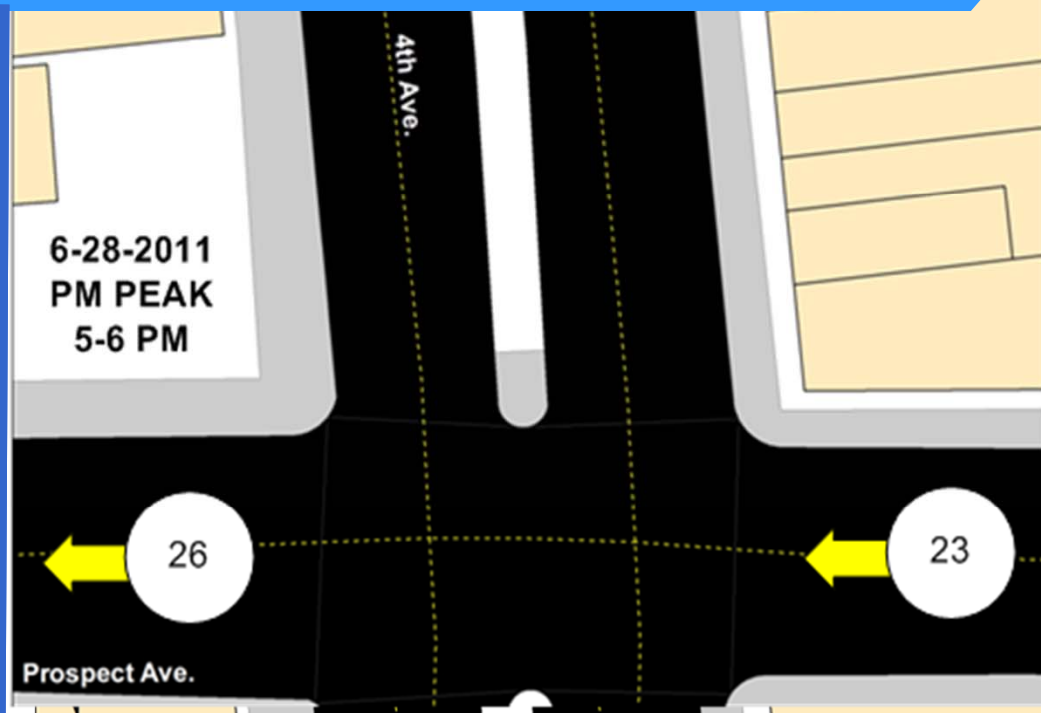
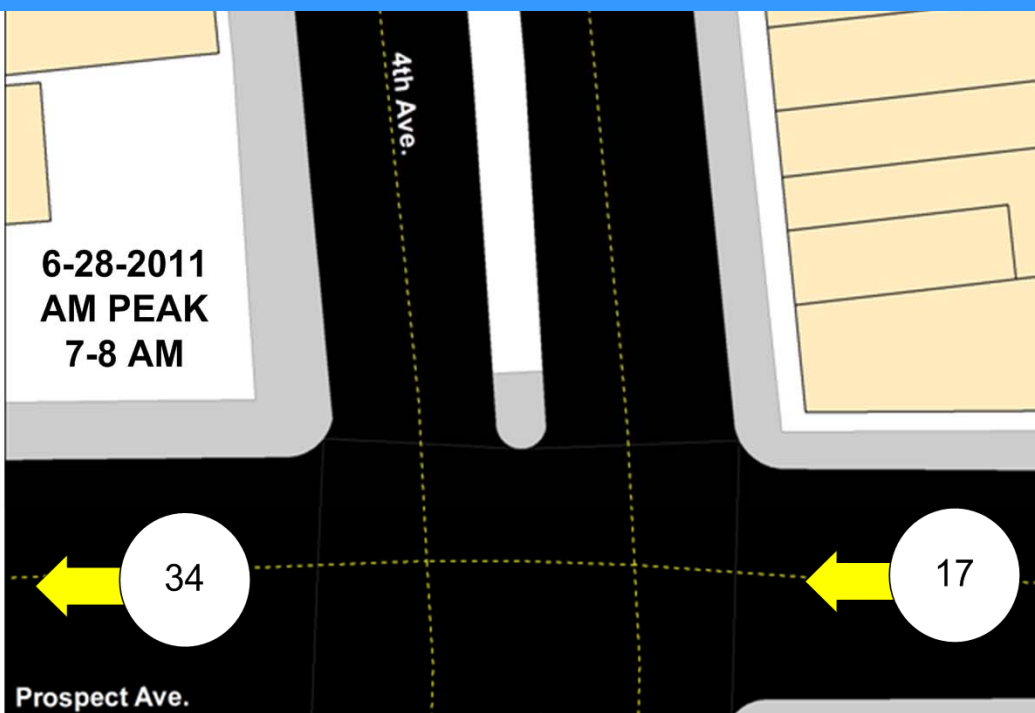


# Truck Volumes – 20<sup>th</sup> Street at 5<sup>th</sup> Avenue

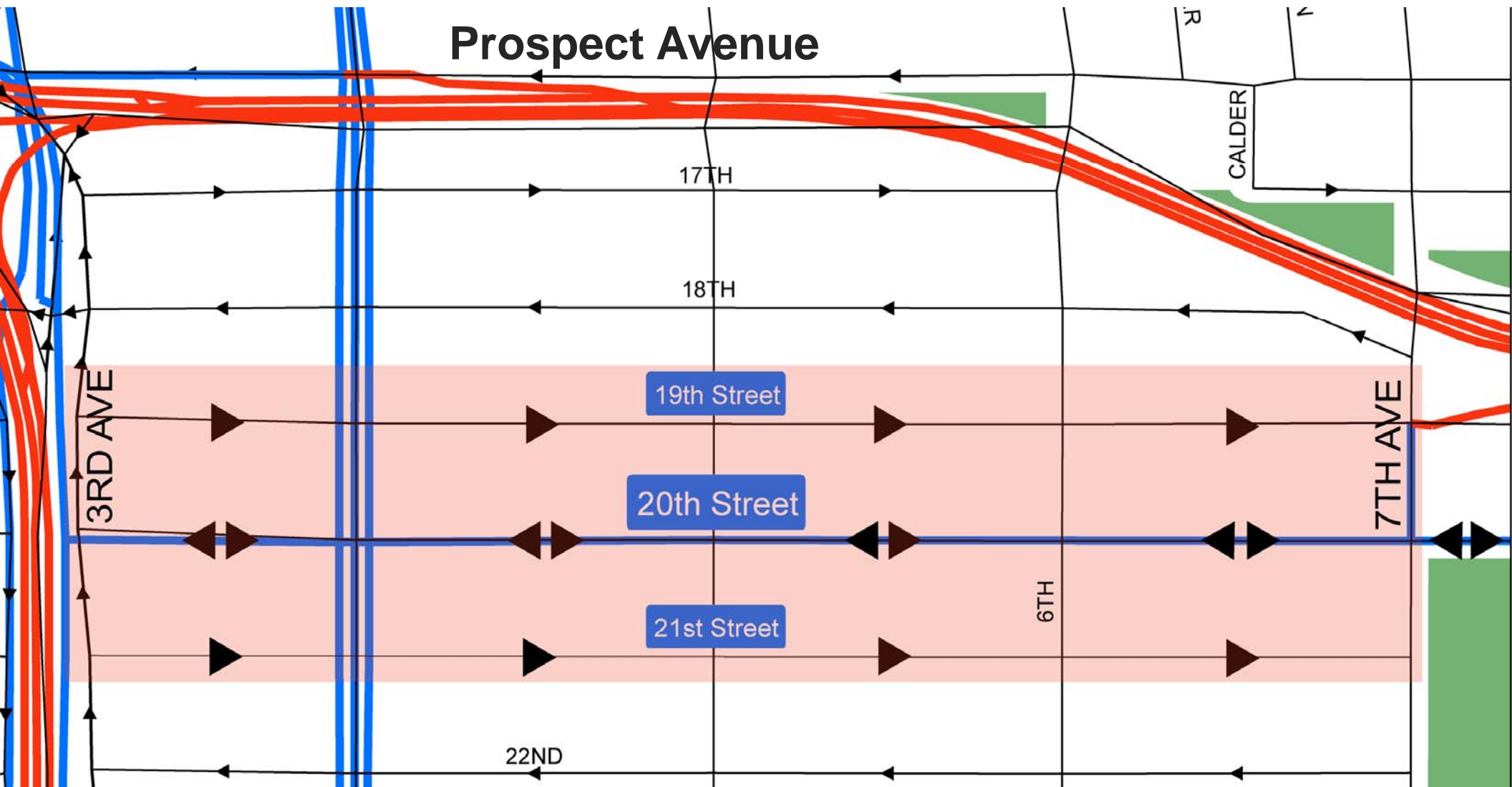




# Truck Volumes – Prospect Avenue at 4<sup>th</sup> Avenue

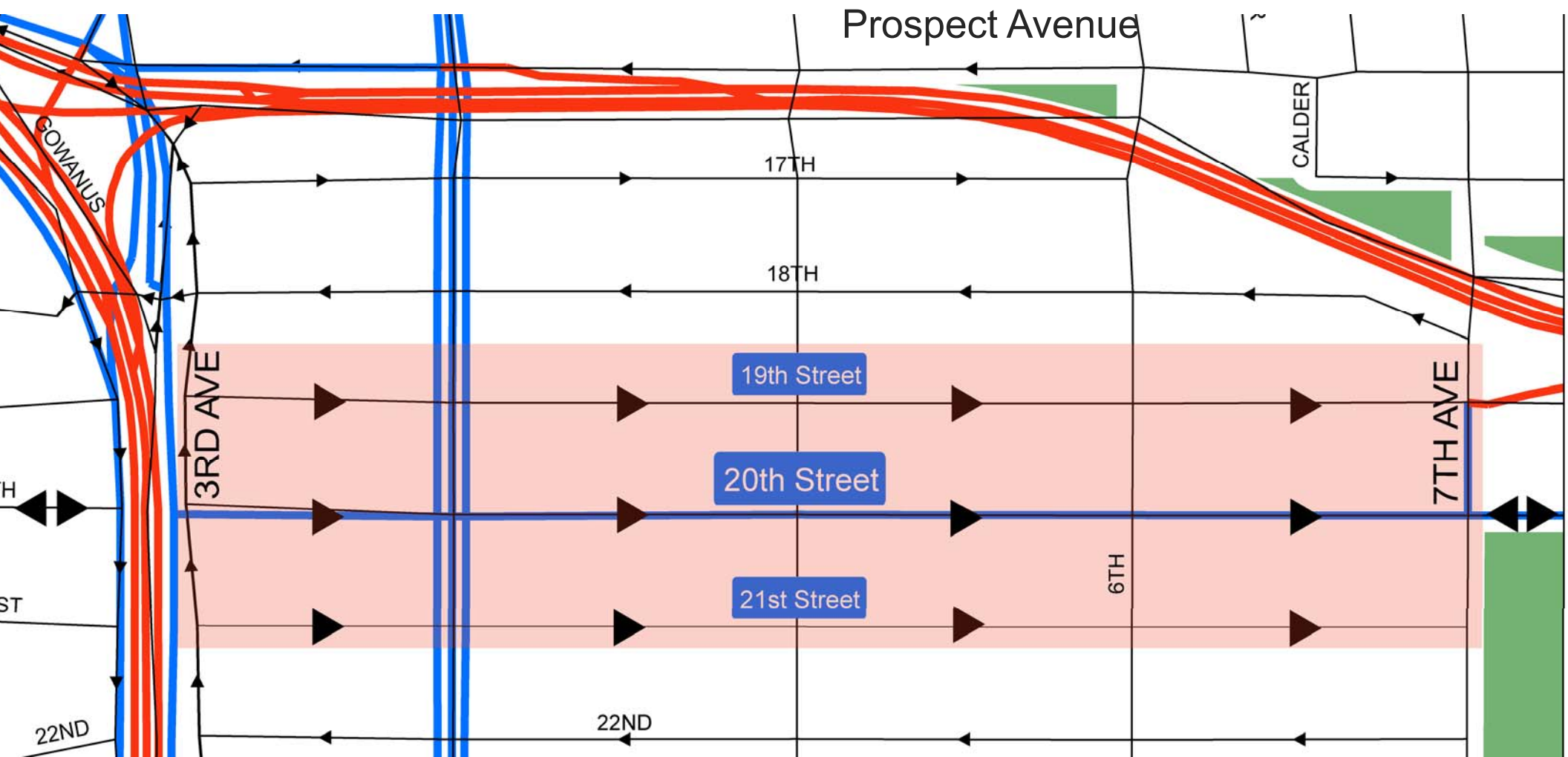


# Existing One way Network



# Potential One way Network Impacts

## If 20<sup>th</sup> Street was one-way eastbound

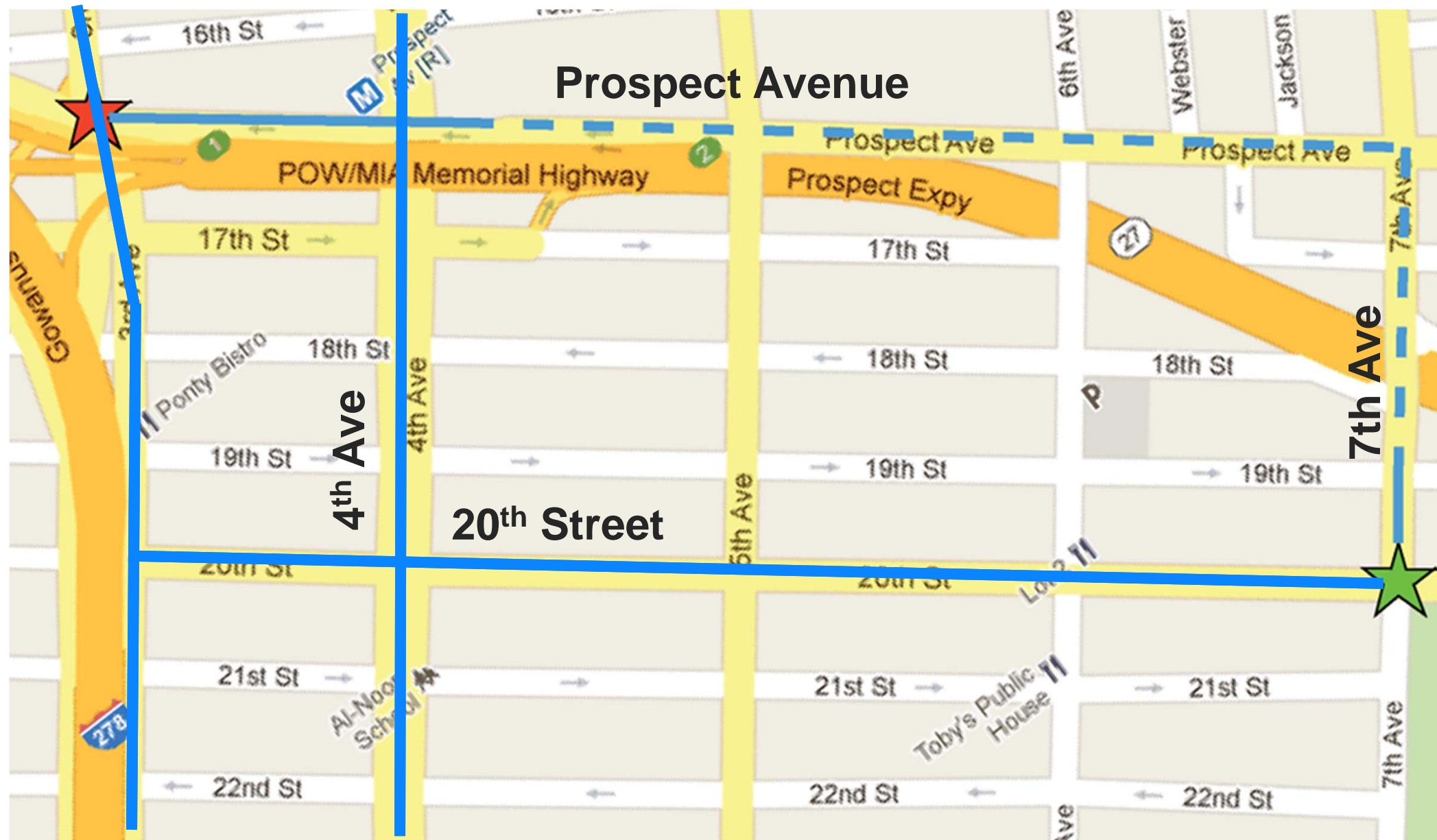




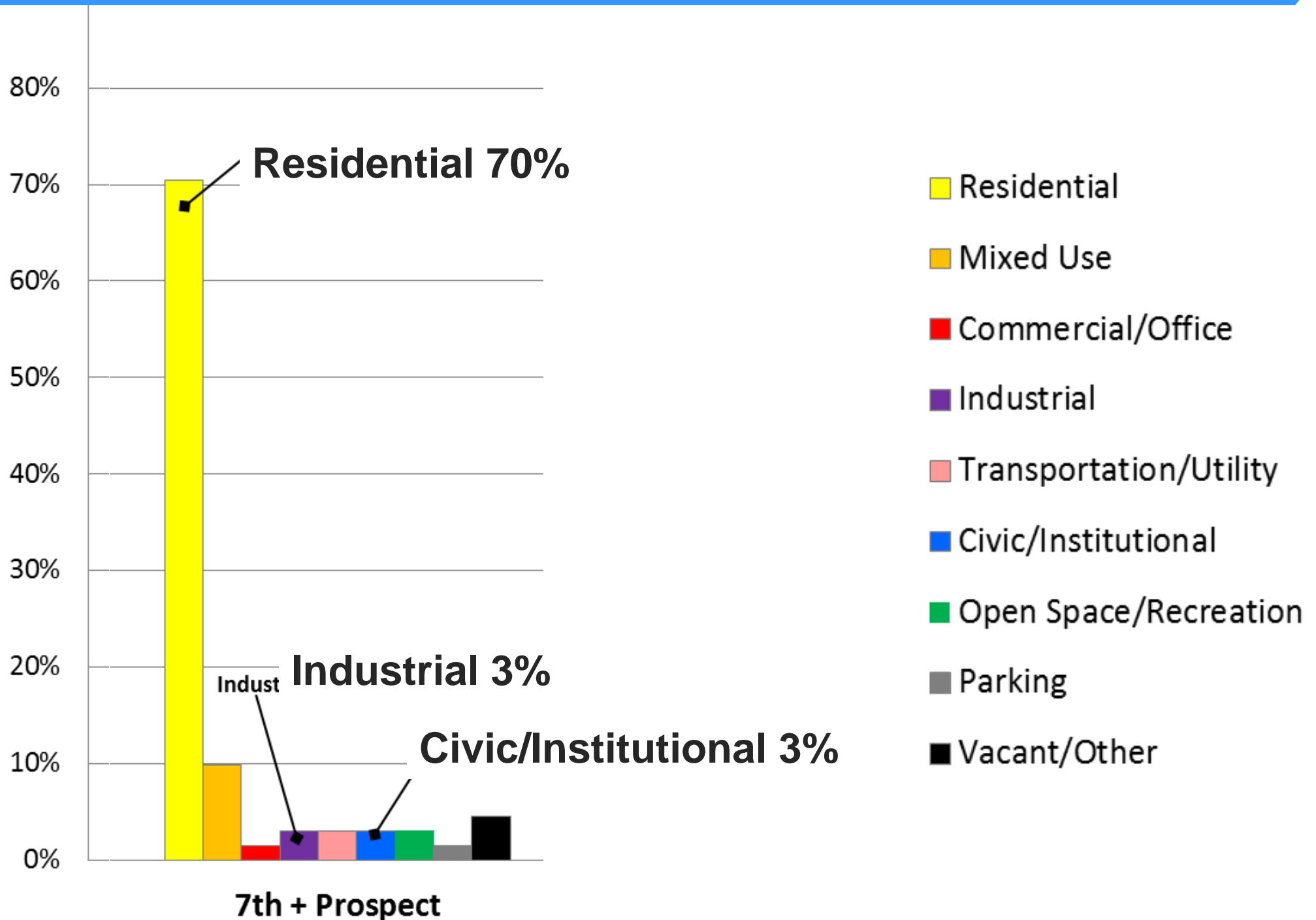
# Potential alternatives

- Convert 20<sup>th</sup> Street to eastbound-only
  - Requires new westbound truck route
  - Would create 3 consecutive eastbound streets
- New westbound truck route options:
  - 7<sup>th</sup> Avenue north to Prospect Avenue
- To restore one-way pattern:
  - Convert 21<sup>st</sup> Street to one-way westbound
  - Detailed local circulation impacts need further study

# Local Truck Route Network



# Land Uses – 7<sup>th</sup> Ave to Prospect to 4<sup>th</sup> Avenue





# 7<sup>th</sup> Ave at Prospect (Looking East)





# 7<sup>th</sup> Ave at Prospect (Looking East)

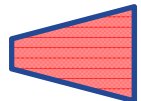


# Potential Next steps

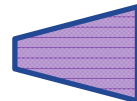
- Address stakeholder concerns
- Undertake detailed study of potential one-way conversions and impacts from 19th to 23rd streets.
- Re-mapping truck routes requires public hearing.  
Process usually takes 90 days.



# Proposed Data Collection Locations

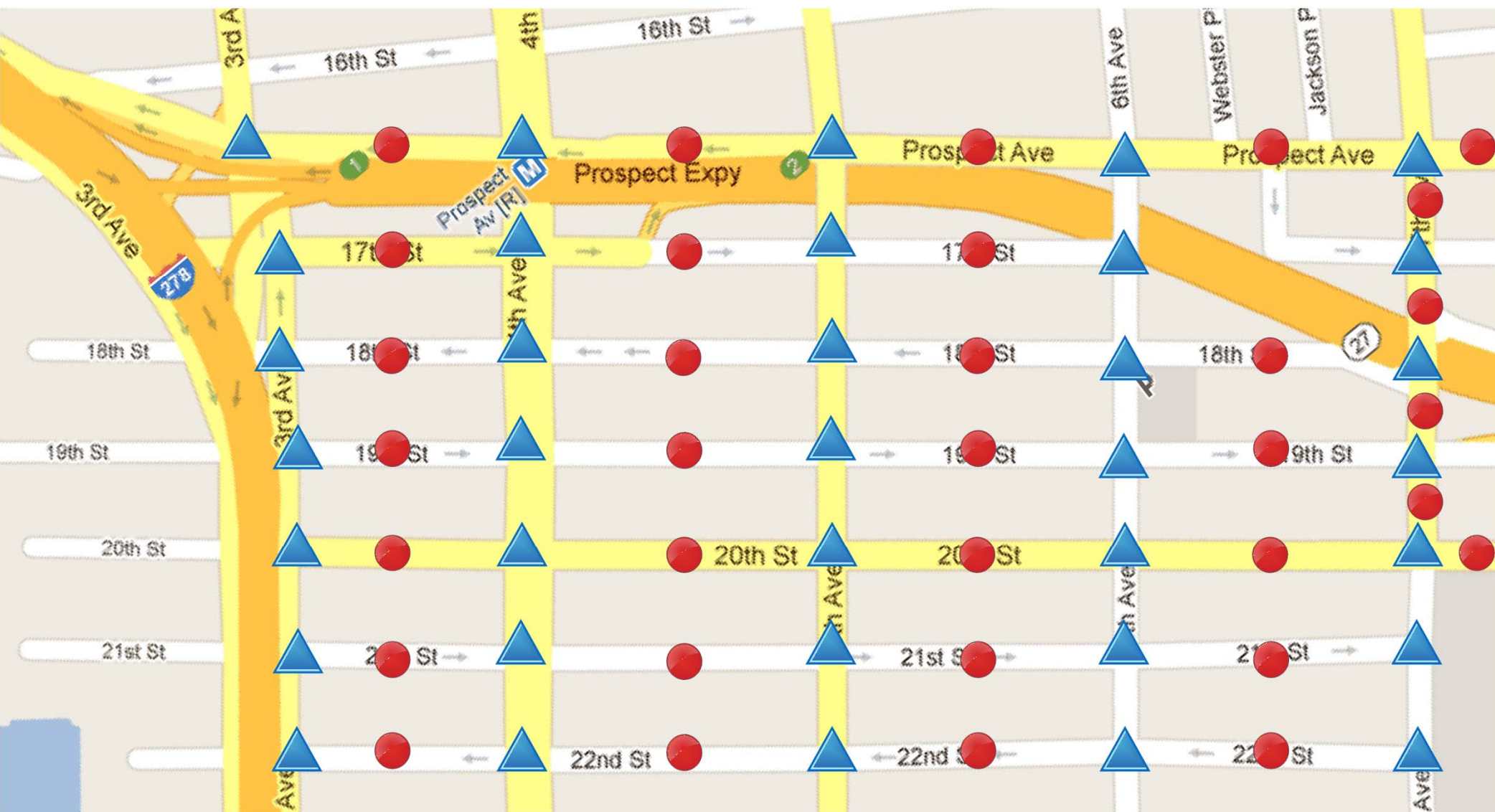


Time Lapse video scheduled



Time Lapse Video Completed

# Proposed Data Collection Locations



Turning Movement Counts



Traffic Volume Counts (ATR)