



Today's Presenters













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About AECOM



Key Capabilities

- Corridor Planning
- Public and Stakeholder Outreach
- Roadway and Traffic Analysis
- Non-Motorized Planning and Analysis
- Transit Planning and Analysis
- **GIS** and Mapping

2017 ENR Ranking

- **Design Firm** #1
- #1 **Transportation**
- **Highways** #1
- #2 **Bridges**
- **Mass Transit + Rail** #1
- #1 **Airports**
- #1 **Marine + Port Facilities**

2016 Revenue \$ MIL (global)



Supporting Team Members



- Frequent collaborator with AECOM
- Local planning and outreach experience
- Dynamic engagement approaches



- Nationwide aerial photography and digital mapping products
- Long-standing relationship, successful delivery on other projects
- Investment in new technology

Our Experience

Successfully delivering similar planning projects



Our Experience

Successfully delivering similar design projects





Project Elements







Multi-Modal Thinking



Feasibility & Constructability



Engaging Stakeholders



Project Schedule

Documenting the Need



- Understand vehicular travel patterns
- Review non-motorized travel needs on Napier and adjacent areas
- Link to larger community needs for economic sustainability and equity
- Identify major safety concerns
- Understand access barriers for transit dependent residents



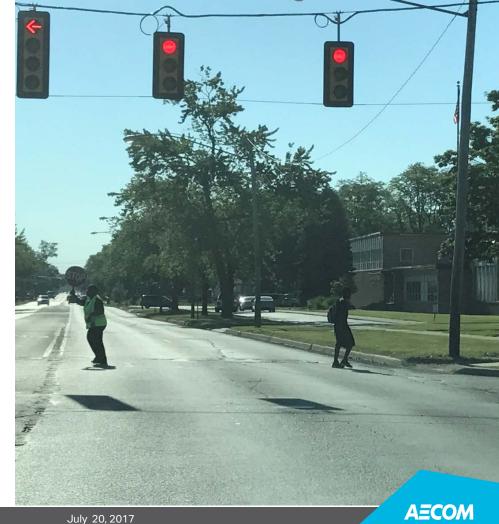
Multi-Modal Thinking







- Lack of continuous sidewalks, bike lanes and trails
- Limited fixed route transit along Napier
- Many serious non-motorized injuries and fatalities
- Improvements to walking / biking safety prepares for future transit
- Embrace "Complete Street" approach



Feasibility & Constructability









- Understanding of design standards
- Understanding of funding options
- Preferred alternative developed from the ground up as a feasible, constructible plan



Engaging Stakeholders











- Regular public and community input
- The AECOM Team will work with SWMPC and the project steering committee
- Sequence of outreach that informs and engages
- Focus on education and gaining public input
- Identify a range of alternatives and evaluation criteria



Project Schedule



- Public Engagement Throughout
- On Budget, On time
- Seven Month Timeframe







Community Engagement



Respect the past

Community Engagement

Low-tech/High touch



Community Engagement

Many hands, many voices



Online / Other Engagement

Visual Preference » gauging user perspectives of non-motorized facilities

Very Comfortable
 Not Comfortable
 Very Uncomfortable

» Bicuclists are forced to ride in travel lanes with automobiles

85%

by a designated buffer space, separating the bicycle lane from the adiacent travel lane.

Bicycle lane accompanied

TRADITIONAL BIKE LANE

43%



» On-street bike lane with some kind of protection from moving vehicles.

SHARED USE PATH





Graphics-rich

SHARROW



» Pavement marking sumbol that assists bicyclists with lateral positioning in lanes too narrow for a motor vehicle and a bicucle to travel side-by-side within the same traffic lane



53% 2%



» Portion of roadwau that has been designated for preferential/exclusive use by bicyclists with pavement markings and





2%

» Phusicallu separated bikeway from motor vehicle traffic by an open space or barrier, either within the right of wau or an independent right ofway.



60%

Online / Other Engagement

Digital and traditional





Recent comment by Anonymous.

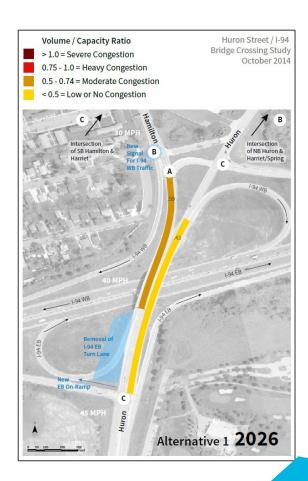
I would like to see a straight connection between the east part of the KRVT at Pitcher St directly west to where the trail starts up again at Westnedge it would follow along side the north side of the railroad tracks.

While the new blies lane on.



Corridor Mapping & Data Collection

- Detailed mapping supports analysis, decision-making, development of alternatives and public outreach
- Example maps:
 - Demographics
 - Transportation facilities
 - Crash locations
 - Land use
 - Walkability audit data



Walkability Audit

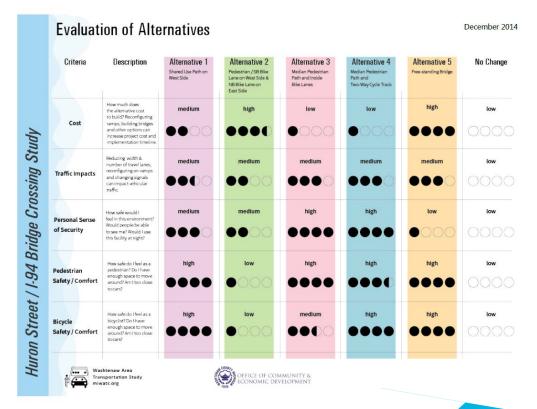
- Core component of existing conditions analysis
- Assists in identifying pedestrian concerns for safety, access, comfort and convenience
- Customized audit is based on instrument from the Center for Disease Control

Data collection points:

- ✓ Continuous pedestrian facilities
- Pedestrian conflicts
- Crosswalk availability
- Maintenance deficiencies
- Path width
- Buffer space
- ADA accessibility
- Aesthetics of area
- Shade availability

Evaluation Matrix & Methodology

- Will work collaboratively to develop evaluation criteria to compare and inform selection of alternatives
- Possible criteria include:
 - ✓ Cost
 - Traffic Operations
 - Pedestrian Improvements
 - ✓ Bicyclist Improvements



Huron Street / I-94 Bridge Crossing Study





Aerial Survey

- Capable of collecting wide swath of information in and around project area.
 Good technique when evaluating alternate pathways
- Provides aerial photograph as base.
 Excellent for use at public and internal meetings
- Provides very detailed horizontal and vertical information, sufficient for most non-motorized path design purposes
- Very cost efficient compared to conventional design survey



Guiding Design Considerations

- Safety and crash history
- Right of way constraints and options
- Utility constraints (e.g. high voltage power lines)
- Traffic patterns and volumes (e.g. intersections)
- Linkages of residential and commercial properties to reduce vehicular travel
- Future transit opportunities and locations





Initial Concepts

4 Lane to 3 Lane Roadway Reallocation



Typical Cross Section



Cross Section at Intersections



Initial Concepts

Sidewalk and Shared Use Path



4 Lane Typical Cross Section



5 Lane Typical Cross Section



Final Concepts

- Several preliminary concepts will be developed
- Focus on pedestrian and nonmotorized users
- Elements to enhance pedestrian and bicycle safety
- ADA compliance throughout all alternatives
- Look for opportunities to improve the streetscape and include green infrastructure







What We Bring

