

Pop-Up Traffic Calming and Placemaking – A Tool for Community Engagement –

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Conference

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Midblock Crossing – Church St Bozeman, MT (WTI)

WTI Focus Areas

Safety &
Operations

Road
Ecology

Mobility & Public
Transportation

Cold Climate
Operations &
Systems

Infrastructure
Longevity &
Sustainability

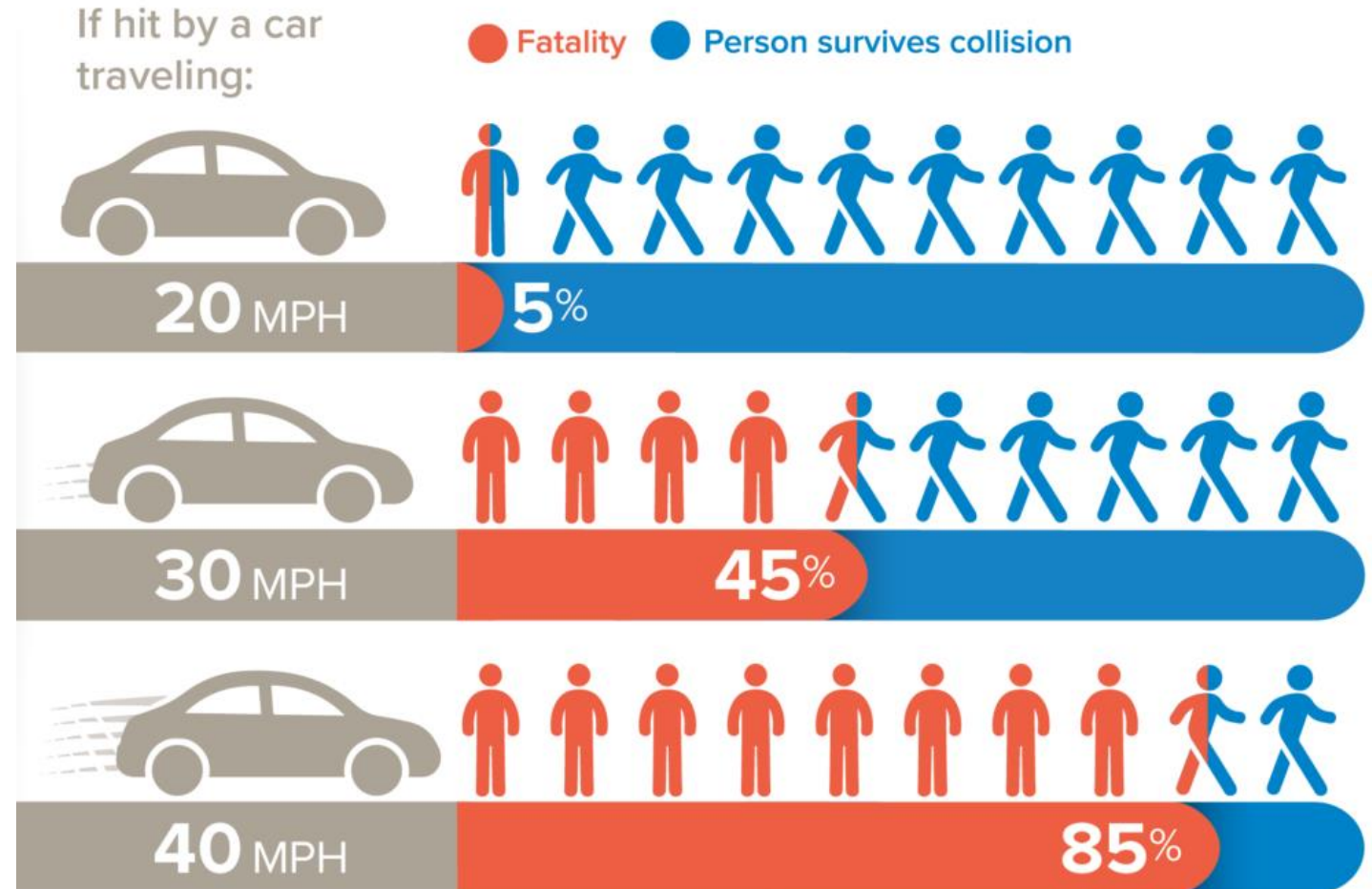
Materials & Automated
Evaluation of Pavements
& Bridges

Systems Engineering
Development &
Integration

Workforce
Development

Why

- Business or neighborhood complaint
- Traffic Speeds
- Pedestrian/Cyclist Safety



National Traffic Safety Board (2017) Reducing Speeding-Related Crashes Involving Passenger Vehicles.
Available from: <https://www.nts.gov/safety/safety-studies/Documents/SS1701.pdf>

Why?

- We need to design for everyone

EQUALITY:

Everyone gets the same – regardless if it's needed or right for them.



EQUITY:

Everyone gets what they need – understanding the barriers, circumstances, and conditions.



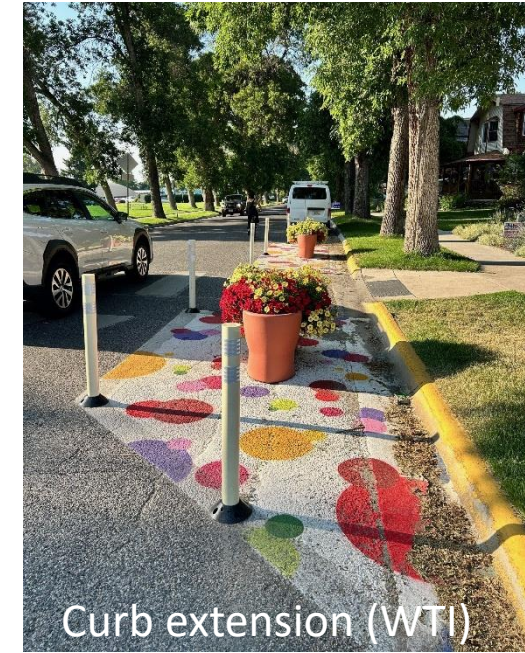
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Pop-up (quick build) traffic calming

- Short-term action for long term change
- Low cost
- Changeable
- Improve safety
- Respond to residents' concerns



Pedestrian refuge island (WTI)



Curb extension (WTI)

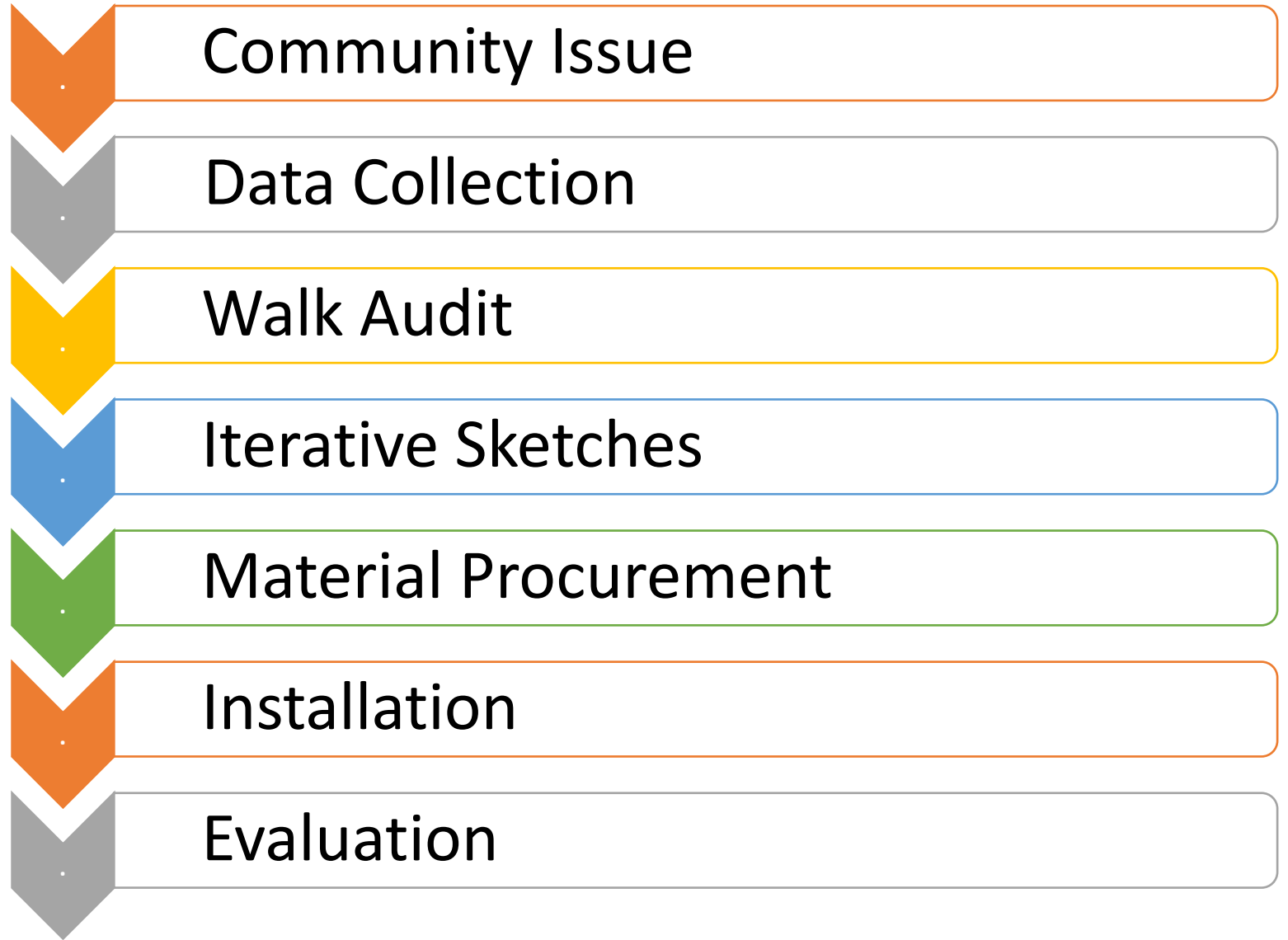


N. 25th St. Bozeman (WTI)



Traffic circle

Pop-up Project Process



Walk audit

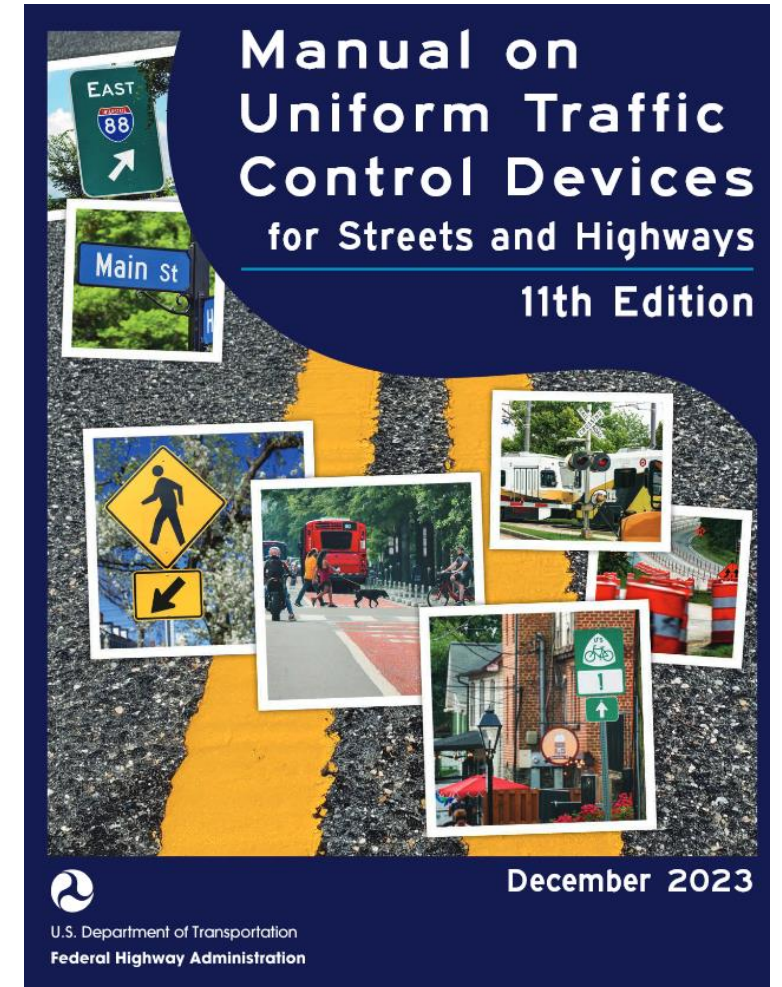


A Community Engagement Tool

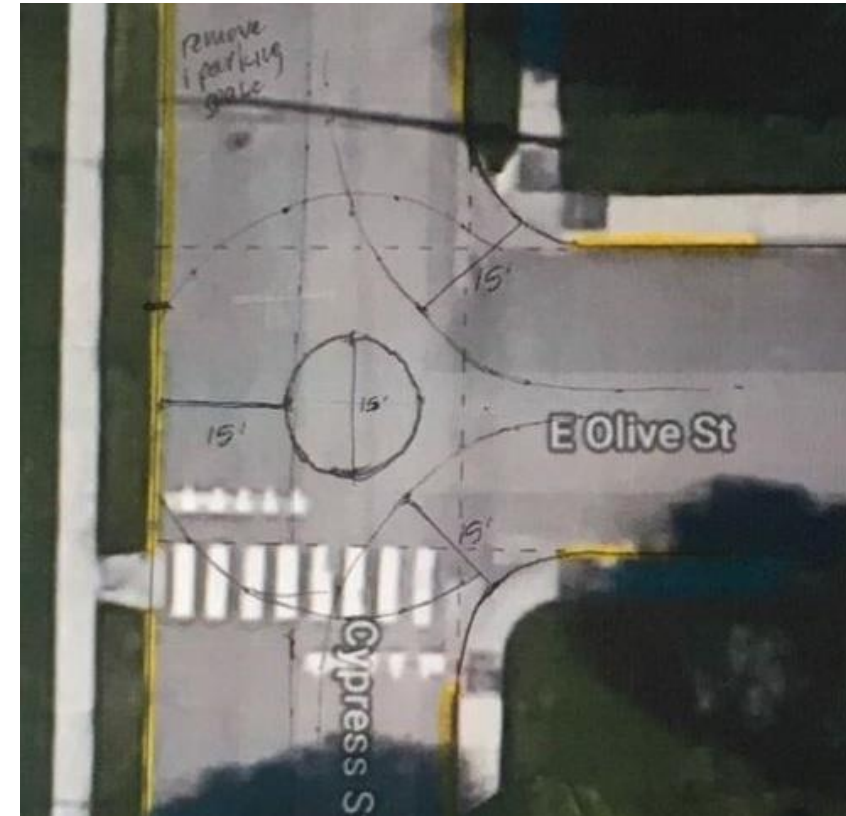
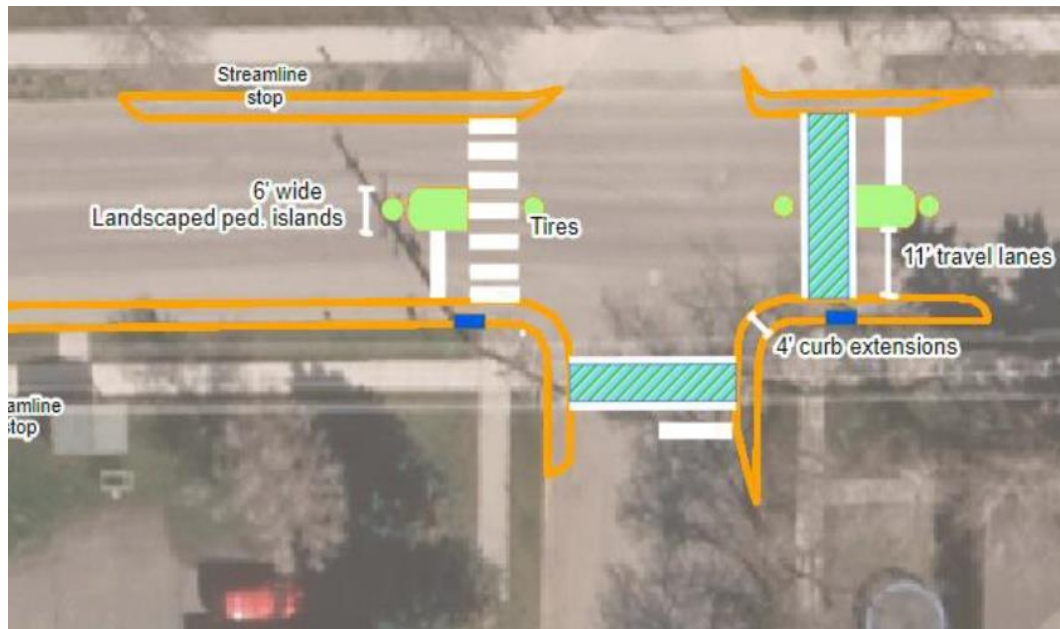
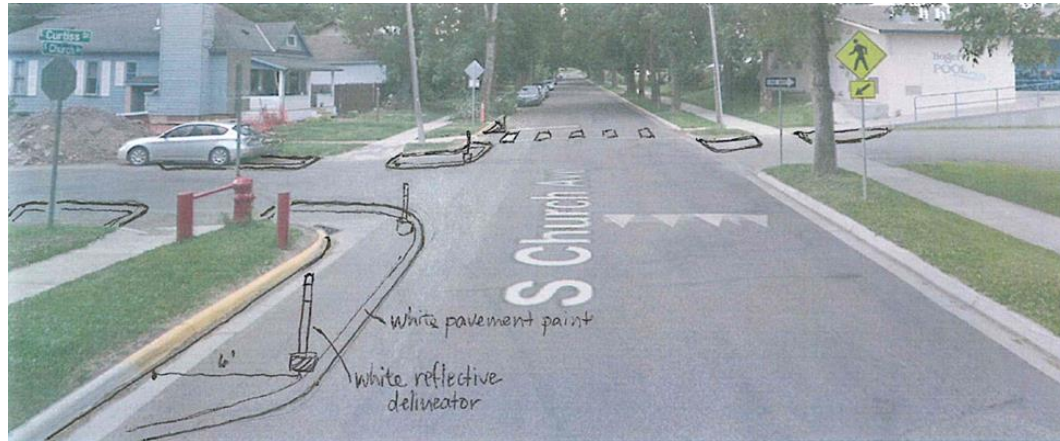


Project Design

- Maximum 25-30 mph speed limit
- Iterative process
- Follow MUTCD
- Durable materials & supplies
- Permission from local agency/encroachment permit

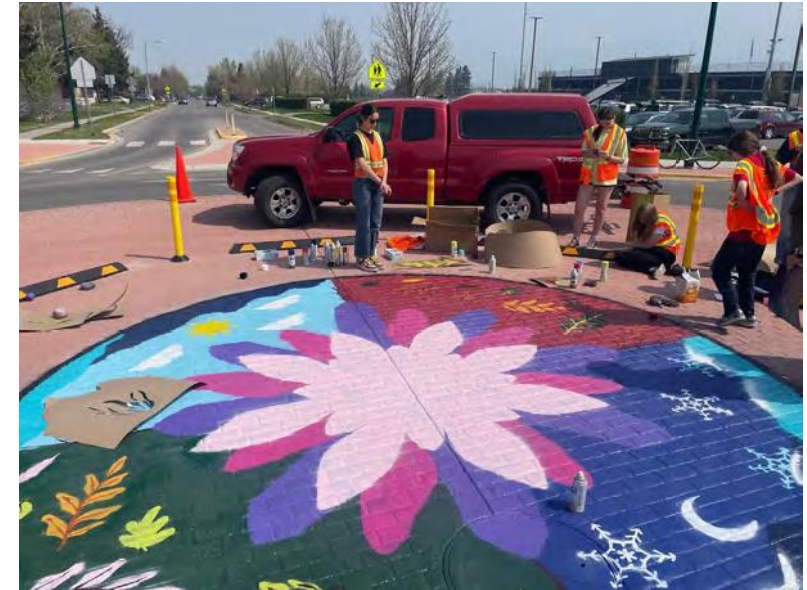


Iterative Sketches



Installation

- Traffic control plan
- Local staff and/or volunteers
- Community engagement tool



Data collection/ evaluation

- Vehicle speed and volume
- Driver yielding rates
- Community survey



“The in-road signs at the school crossing on HWY 20 made a big difference. It seems like more people slowed down than before.”

“Cars on Hwy 20 do not stop for walkers/bikers crossing. My mom rides her scooter all over town and is terrified to cross at Hwy 20 and Geyser.”

Eastbound- entering town	Before	During	Change
85 th Percentile Speed	32 mph	29 mph	- 3 mph
% Over Speed Limit	66.4%	46.8%	-19.6%
Average Daily Vehicle Volume	2218	3763	+1545

Older project designs: short term



Cooper Park Circle Bozeman 2018
(WTI)



Beattie St. Circle Helena 2019 (WTI)



Tamarack St. Project 2018 (WTI)

Newer project designs: more durable materials



Bump outs in West Yellowstone (WTI)



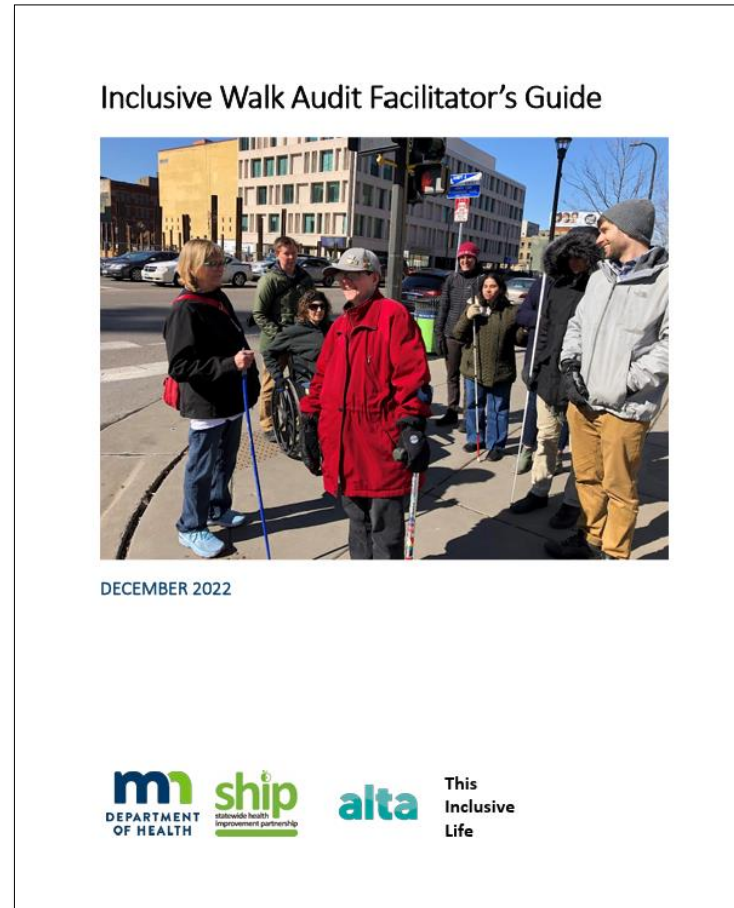
Street art near 11th Ave in Bozeman (WTI)



Traffic Circle (City of Hamilton, MT)

Accessibility

- It starts from the beginning
- Walk Audits
- Design and planning
- 8 to 80 ideology
 - Universal Design



Temporary curb ramps

Curb Extensions

- Increase safety and visibility of pedestrians
- Reduce crossing distance
- Slow drivers' speed
- Can be installed:
 - intersections
 - mid-block pedestrian crossings.



Pedestrian Refuge Island

- Minimize exposure to vehicle traffic by offering mid-crossing protections
- Allows pedestrians to cross one lane of traffic at a time.



W. Beall St. & 22nd Bozeman (WTI)

In-Road Yield Signs (R1-6)

- MUTCD compliant
- Alert drivers to crossing, while also narrowing the roadway.



Big Sky (WTI)

Bike Lane

- Improve traffic flow and increase safety for pedestrians, bicyclists, and drivers.
- Bike lane through campus segregates pedestrians and bicyclists on major cross campus paths.



Montana State University bike lane (WTI)

Bus Stop

- Shelter from weather
- Increase visibility of transit
- Enhance bus stop (placemaking)
- Traffic calming by making street appear narrower



Placemaking/ Art

- Incorporate art by neighbors/ local artists
- Highlight the unique character of a place



Photos: (Left) bus stop at Annie St. & 27th, (top right) curb extensions 11th & Stucky Ave, (bottom right) roundabout at 15th & Beall St. in Bozeman (WTI)

Community Engagement

- People feel part of the process
- Breaks down barriers between government & residents
- Infrastructure education
- Projects are iterative and can update to improve and move forward



Okolona, MS (NADO/WTI)

In closing: Short term action for long term change

- Evolve to more durable materials/ seasonal installations
- Project champions are key
- Outreach must be done prior to installation
- Hands-on experience for neighbors & students



Possible Funding/ Project support

- SS4A
- AARP Community Challenge Grants
- Bike/walk advocacy groups
- Transportation Alternatives
- Paint, flex posts, signage
 - common city/county supplies
- Planters, flowers, public art
 - local gardens/greenhouses, high school art club, local artists, other local groups...
- Think outside the box!!



Resources

[Montana Pop-up Traffic Calming Guide](#)

[Big Sky/ Rural Traffic Calming Toolkit](#)

[Burlington Public Works Quick Build Design + Materials Standards](#)



POP-UP TRAFFIC CALMING GUIDE

A tool for Montana communities to implement lighter, quicker, and lower-cost complete streets projects

Contents

Introduction	2
Design Ideas	3
The Process	7
Resources	13
Appendices	15

