JAMESTOWN
COLORADO

Traffic Calming Along CR-94

Options and Recommendations

November 7, 2016

AECOM

Jamestown Traffic Calming Background

– AECOM hired through Boulder County contract to look at traffic calming options

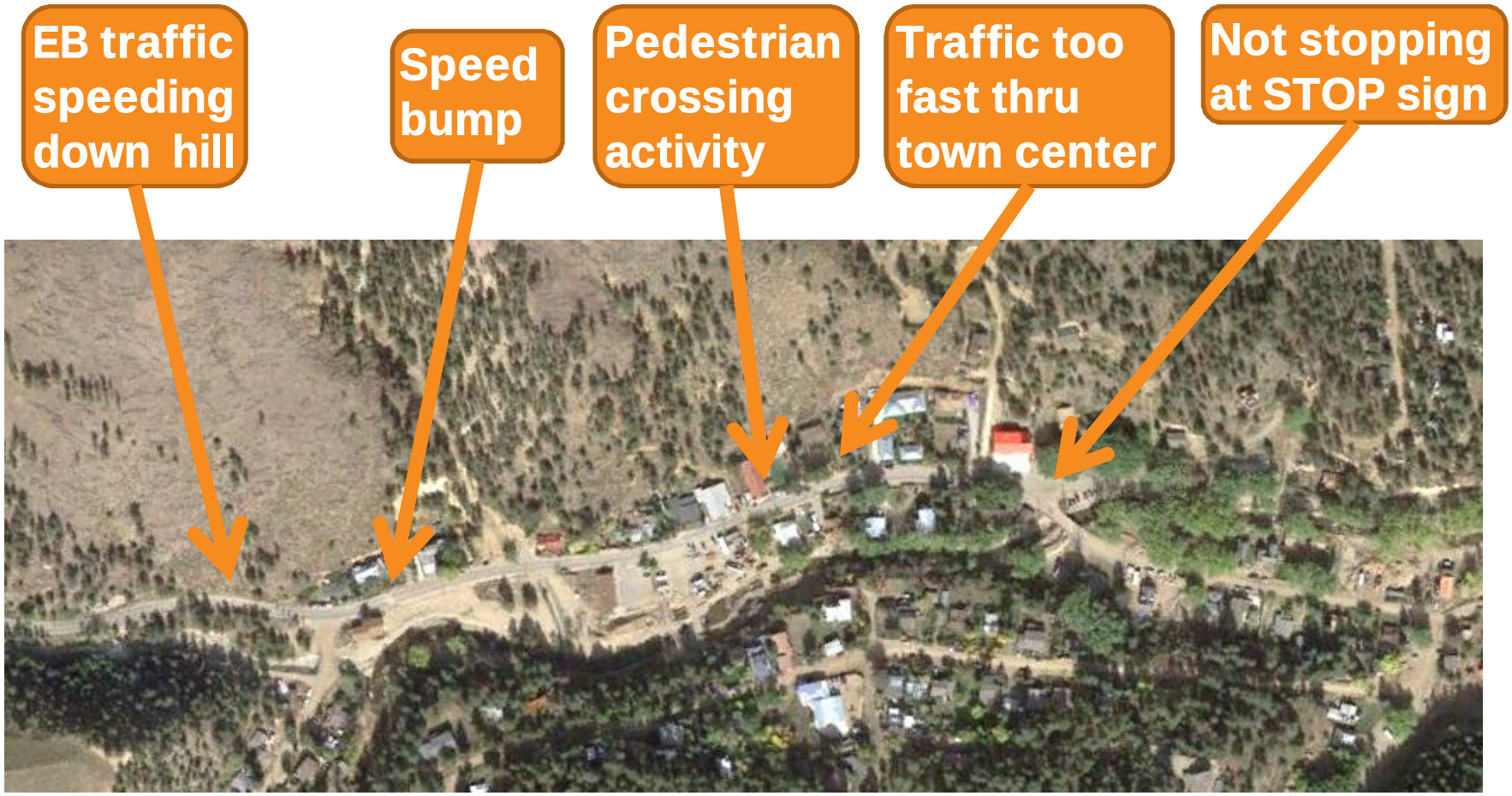
– Recurring concern from town residents on the speed of traffic through town

– Jamestown Recovery Plan specifically mentions traffic calming should be implemented

Jamestown Traffic Calming Background

- Flood damaged pavement to be replaced by Boulder County James Canyon permanent repairs (FEMA)
  Tentative summer 2017
- Non-FEMA Pavement Reconstruction Project (CDBG-DR) will repair other CR-94 pavement in town
  Tentative summer 2017
- Traffic calming features to be installed as part of the Non-FEMA pavement project
- Concrete dip at Merc will be rebuilt as part of Non-FEMA pavement project; it is needed for stormwater drainage

Jamestown Known Traffic Issues



Traffic Calming Options

– Gateway Monument

– “Your Speed” Radar Sign

Traffic Calming Options

– Flashing Beacons on Regulatory Signs

– Additional Speed Limit Signs

In sign border

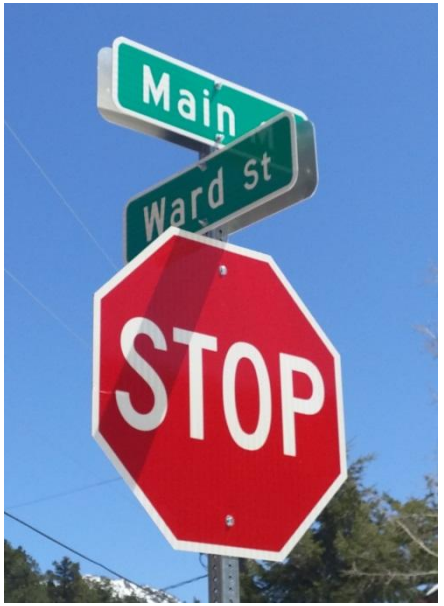
Above sign

Traffic Calming Options

– Intersection Channelization

– Roadside Parking Prohibitions

– Larger Street Name Signs



Traffic Calming Options

– Pedestrian Actuated Crossing Sign

Traffic Calming Options

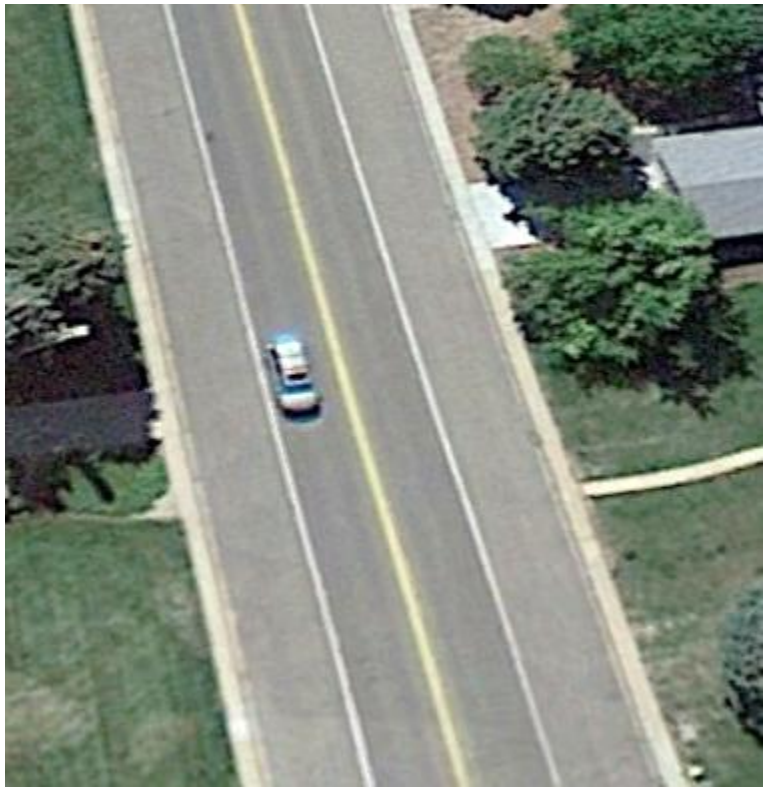
– Speed Humps

- 12-14 ft length, longer than speed bumps with gentler slope so less noise compared to bumps, but don't reduce speed as much

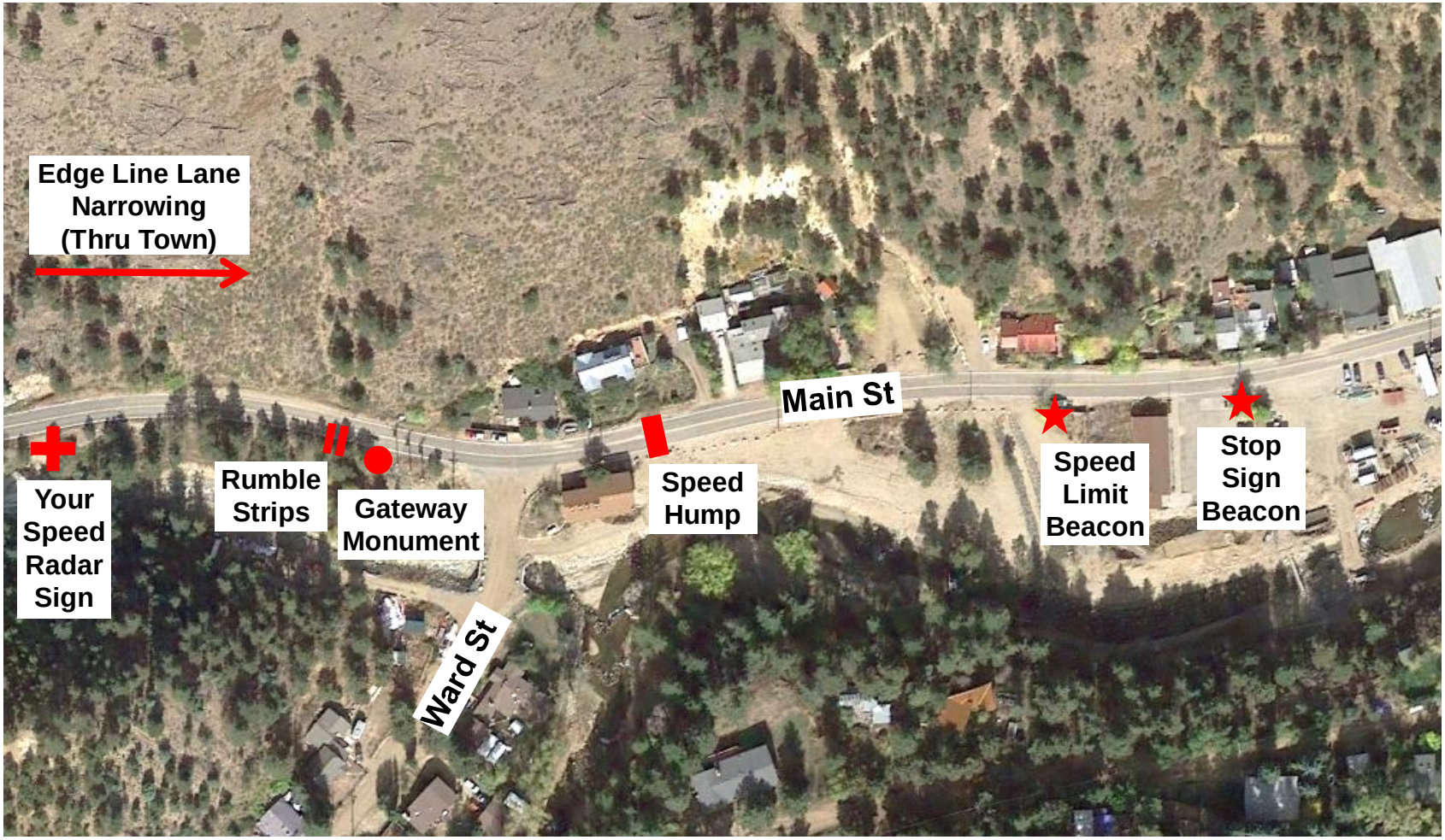
Traffic Calming Options

– Rumble Strips

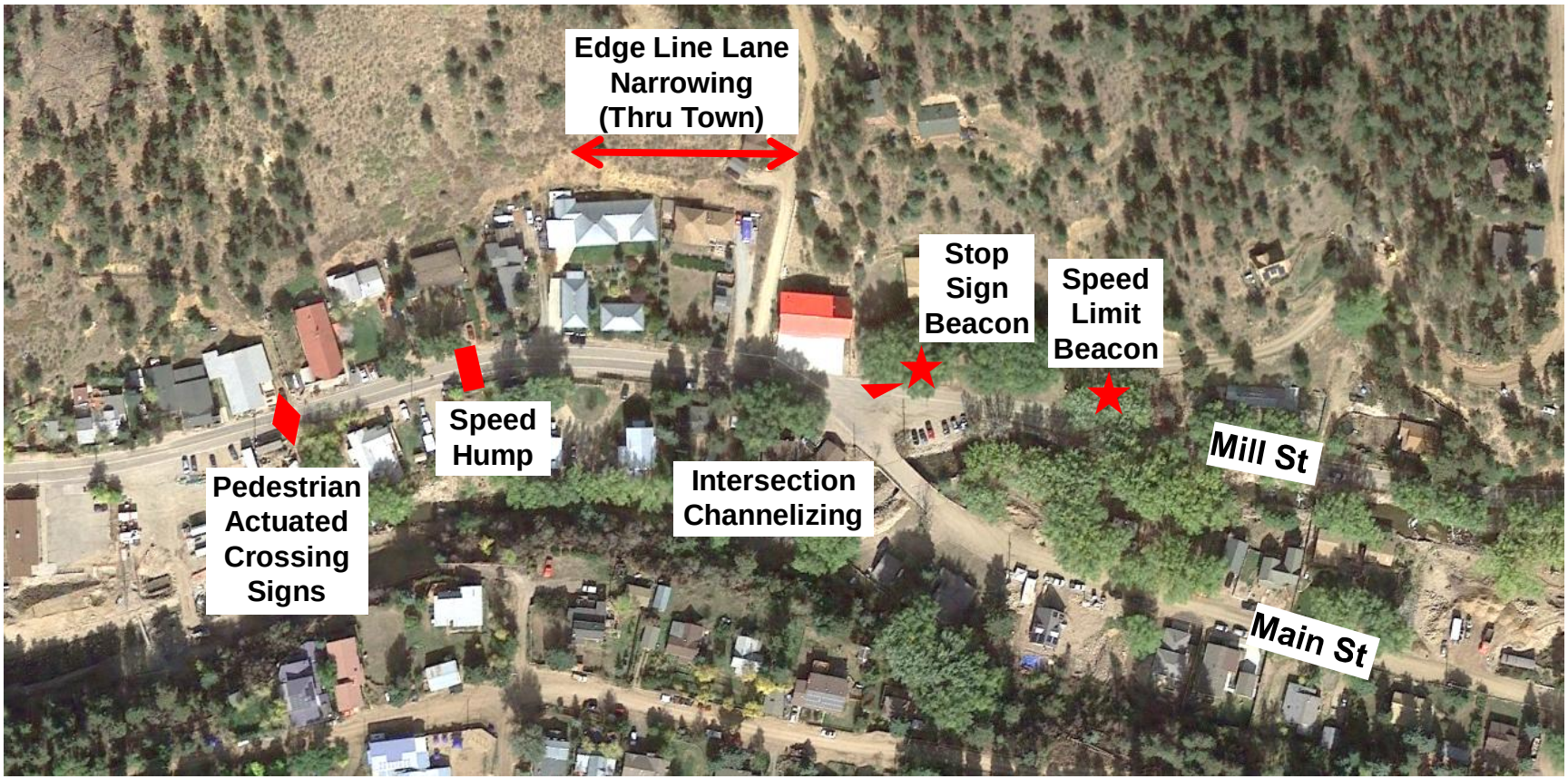
– Narrowing Lanes With Edge Striping



Traffic Calming Options
West End Potential Locations



Traffic Calming Options
Town Center Potential Locations



Traffic Calming Options
East End Potential Locations

Traffic Calming Rankings

– Options were ranked on effectiveness, relative cost, right-of-way needs, maintenance needs

– Higher scoring options
  - Narrowing lanes with edge striping
  - “Your speed” radar signs
  - Flashing beacons on stop signs / speed limit signs
  - Larger street name signs
  - Speed humps
  - Pedestrian actuated crossing sign

Traffic Calming Options
Issues to Consider

– "Light pollution"

– Speed hump / rumble strip noise

– Battery replacement maintenance for solar systems

– Pedestrian actuated crossing
  - Relatively high cost option for relatively low volume crossing
  - No sidewalks to connect to

– Right-of-Way needs for gateway monuments or crossing

Traffic Calming Recommendations

- Street name signs have already been installed
- Implement during paving project:
  - Narrow lanes with edge striping
  - “Your speed” radar signs
  - Stop sign flashing beacons, speed limit flashing beacons
- Other options based on community input
  - Speed humps

Next Steps

– Community feedback on the options

– Estimate construction costs for preferred alternatives

– Confirm budget with funding agency (CDBG-DR)

– Town Board approval

– Design and plan development (AECOM)

– Construction (tentative summer 2017)

Traffic Calming Option Descriptions

Speed hump – rounded mounds usually from 10 -18 feet long, and 3 inches high. Due to the shorter height, gentler slope and increased length, speed humps have less of a noise impact than speed bumps, but speed reduction is also lessened. Less impact on emergency vehicles and snow plows than our current speed bumps. Speed humps with a length of 10 – 12 feet reduce average speeds to 15 - 20 MPH.

- Pros: very effective at reducing speeds, inexpensive, less negative impact on drivers, neighbors, emergency vehicles and snow plows than speed bumps.
- Cons: noise pollution, slight impact on emergency vehicles and snow plows

Rumble strips – roughened areas of pavement that cause noise and vibration. Encourage drivers to slow down to minimize the noise and vibration.

- Pros: mildly effective, inexpensive.
- Cons: noise pollution.

Gateway monuments – placed near entrance to town, draw drivers' attention to fact that they are leaving a higher speed road and entering a town.

- Pros: mildly effective, visually attractive, quiet
- Cons: can be expensive (depending on design)

Narrowing with striping – painting the lane striping to decrease road lane width appearance to 11 feet. Visually gives drivers sense of narrower road and need for lower speed.

- Pros: very inexpensive, no noise or light pollution, mildly effective at reducing speeds.
- Cons: none

"Your Speed" radar signs – measure driver's speed and call driver's attention to that speed. May display messages related to driver's speed.

- Pros: very effective, quiet.
- Cons: expensive to install, solar batteries need replacing approximately every ten years

Beacons or edge-lit stop/speed limit signs - Lit signs intended to draw driver's attention to regulatory signs.

- Pros: very mildly effective, inexpensive
- Cons: light pollution

Pedestrian-actuated crosswalk - crosswalk with lights that are activated by pedestrians.

- Pros: increase safety of pedestrians
- Cons: extremely expensive, light pollution, few users compared to cost

Thank you