

POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT



Community Workshop #3



Your Safety • Your Mobility
Your Economic Opportunity

POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT

Welcome and Introductions

Dan Harelson, Idaho Transportation Department



POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT

Today's agenda

- Review outcomes of Community Workshop #2
- Present and gather input on the recommended intersection improvements
- Explain next steps in the project



POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT

Project goals

- Improve safety and traffic flow at the Pocatello Ave/I-86B Intersection
- Involve the community in the design process



POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT

What we heard at Workshop # 2

- Safety is an important consideration from several points of view.
- Free-flowing traffic is very desirable.
- Access at Fairgrounds Road is critical and dedicated left- and right-turn lanes are needed.
- Cost is an important consideration.



POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT

Process

- Review community input from Workshop 2.
 - *What do you like?*
 - *What do you dislike?*
 - *Did we miss anything?*
- Assess cost, traffic capacity, delays, safety, right-of-way needs.
- Recommend a design for the improvements based on community input and professional judgment.
- Hear your thoughts on the recommended improvements.



POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT

Potential intersection improvements

- #1a – Flyover Ramp: Pocatello Avenue
- #1b – Flyover Ramp: SH-39 Bypass
- #2 – Roundabout
- #3 – Continuous Green T Signal
- #4 – Do nothing



POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT

Alternative #1a: Flyover Ramp – Pocatello Ave

Westbound traffic from I-86 is taken to Pocatello Avenue via a bridge over bypass traffic



POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT

Alternative #1a: Flyover Ramp – Pocatello Ave

- **Likes**

- Keeps traffic moving
- Improves safety
- Will handle traffic volume and reduced delays

- **Dislikes**

- High cost
- Impaired access to Fairgrounds Road and businesses

- **What did we miss**

- Issues with Fairgrounds Road access



POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT

Alternative #1b: Flyover Ramp – SH-39 Bypass

Eastbound traffic from SH-39 is taken to I-86 via a bridge over Pocatello Avenue



POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT

Alternative #1b: Flyover Ramp – SH-39 Bypass

- **Likes**
 - Keeps traffic moving
 - Improves safety
 - Will handle traffic volume and reduced delays
- **Dislikes**
 - High cost
 - Impaired access to Fairgrounds Road and businesses
- **What did we miss**
 - Issues with Fairgrounds Road access



POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT

Alternative #2: Roundabout

A modern one-lane roundabout designed to handle large trucks



POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT

Alternative #2: Roundabout

- **Likes**
 - Keeps traffic moving
 - Improves safety
 - Lower cost
- **Dislikes**
 - Could be problematic for trucks
 - Confusing for drivers
- **What did we miss**
 - Speed issues on SH-39 bypass



POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT

Alternative #3: Continuous Green T Signal

A three-phase signal with priority given to SH-39.

- Left-turning Pocatello Ave to SH-39 is stop-controlled.
- Westbound I-86 to Pocatello Ave is a yield-controlled left turn.



POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT

Alternative #3: Continuous Green T Signal

- **Likes**
 - Cost is low
 - Signals are easy to understand and create breaks in traffic
 - Accommodates truck traffic
- **Dislikes**
 - It seems less safe
 - It still requires trucks to stop
- **What did we miss**
 - Speed issues on SH-39 bypass



POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT

Alternative #4: Do Nothing

- **Likes**
 - Cost is low
 - Trucks must stop
- **Dislikes**
 - Does not improve safety
 - Does not improve traffic flow
- **What did we miss**
 - Guardrail needs to be evaluated



POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT

Cost comparison

- 1a Pocatello Avenue Flyover \$ 3.3 million
- 1b SH-39 Bypass Flyover \$ 6.4 million
- **Roundabout \$ 1.5 million**
- **Continuous Green T \$ 1.4 million**



POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT

Alternative evaluation

Criteria	Roundabout	Continuous Green T
Safety	Better	
Traffic flow	Better	
Traffic capacity	Better	
Truck delay	Better	
Fairgrounds Road traffic		Equal
Right of way		Better
Community review and input		Equal



POCATELLO AVE / I-86B INTERSECTION

IMPROVEMENT PROJECT

Do roundabouts increase safety?

Source: NCHRP Report 672

When a roundabout replaces...	Crashes decrease	Injuries/fatalities decrease
...a signalized intersection	48% decrease	78% decrease
...an all-way stop	(Effects insignificant)	(Effects insignificant)
...a two-way stop	44% decrease	82% decrease
...all intersection types	35% decrease	76% decrease



POCATELLO AVE / I-86B INTERSECTION

IMPROVEMENT PROJECT

Proposed roundabout design



POCATELLO AVE/I-86B INTERSECTION
IMPROVEMENT PROJECT

Truck navigation video



POCATELLO AVE/I-86B INTERSECTION
IMPROVEMENT PROJECT

Comparison with Nampa Roundabout

Criteria	Nampa	Proposed
Outside diameter	160 feet	176 feet
Island diameter	100 feet	107 feet
Lane width	15 feet	18 feet
Apron width	15 feet	15 feet
Design speed	25 mph	25 mph
Peak traffic	2100 vehicles/hour	1555 vehicles/hour



POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT

American Falls Community

We heard you say:

- *“Roundabouts are confusing to drivers.”*
- *“Education would be necessary.”*

ITD is committed to working with the American Falls community to prepare them for a new intersection design.



POCATELLO AVE/I-86B INTERSECTION

IMPROVEMENT PROJECT

Working group discussion

- What are your thoughts about the recommended improvements to this intersection?
- Do you have any questions or concerns about this project that ITD has not addressed?
- Do you have any suggestions for preparing the community for the new intersection design?
- Do you have any other comments?



POCATELLO AVE/I-86B INTERSECTION
IMPROVEMENT PROJECT

Next steps

- Review input from today's meeting
- Begin final design of intersection
- Host community open house
- Begin construction (2021)



POCATELLO AVE/I-86B INTERSECTION
IMPROVEMENT PROJECT

Thank you!

Contact information:

Dan Harelson, Idaho Transportation Department

(208) 239-3377

dan.harelson@itd.idaho.gov

Next meeting:

Winter 2018/2019

