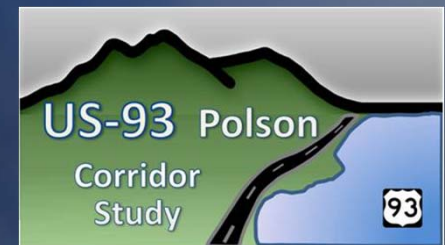


# US 93 Polson Corridor Study

## Informational Meeting No. 3

*June 29, 2011*



# Welcome and Introductions

- ◆ Introduction of dignitaries
- ◆ Stakeholders
- ◆ Technical Oversight Committee (TOC)

# Purpose of this Evening's Meeting

- ◆ Progress since last informational meeting
  - ◆ Screen process
  - ◆ Operational analysis
  - ◆ Draft report and corridor study findings
- ◆ Next steps
- ◆ Questions

# A Corridor Planning Study Is:

- ◆ A pre-NEPA/MEPA process
- ◆ An effort that involves early communication with interested parties to help identify needs, constraints and opportunities for a corridor – and help determine if there are implementable improvement options – given available resources and local support

## **A Corridor Planning Study Is Not:**

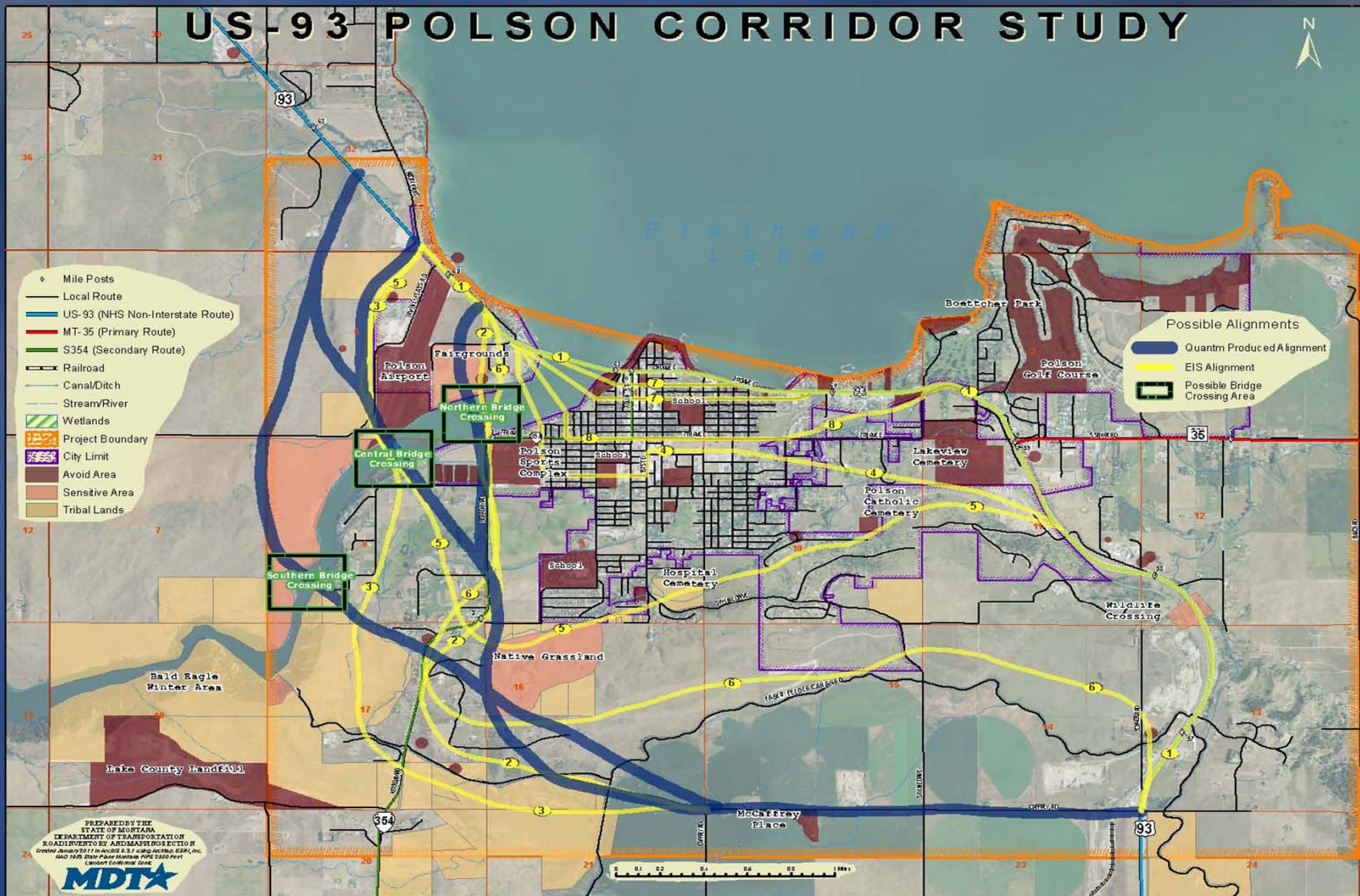
- ◆ **A NEPA/MEPA study or environmental study**
- ◆ **A preliminary or final design report**
- ◆ **A construction or maintenance project**
- ◆ **A right-of-way acquisition project**

# Screening Process: Alternate Routes Analyzed

- ◆ Three trend areas identified via Quantm
  - ◆ Southern bridge crossing
  - ◆ Central bridge crossing
  - ◆ Northern bridge crossing
- ◆ Four EIS alignments also analyzed in Quantm (EIS 2, 3, 5 and 6)
- ◆ Four EIS alignments examined – not in Quantm (EIS 1, 4, 7 and 8)

*Quantm is a corridor and route planning tool successfully used on other MDT studies for route alignment.*

# Alternate Route Options






# Screening Criteria Rating Factors

*Numerical Value = 0*

*Numerical Value = 0.5*

*Numerical Value = 1.0*




		
Low Impact	Medium Impact	High Impact
Best Able to Meet Need & Objectives	Moderately Able to Meet Need & Objectives	Least Able to Meet Need & Objectives



# Point System for Screening Criteria

- ◆ TOC members queried regarding which criteria they felt were the most and least important to the constituents they represented

*Note: Lower scores correspond to higher importance*

Corresponding Level of Importance	Highest Possible Points given to Objectives	Corresponding Points for each of the Rating Factors		
				
Highest Importance	1.0	0.0	0.5	1.0
High Importance	5.0	0.0	2.5	5.0
Moderate Importance	8.0	0.0	4.0	8.0
Low Importance	10.0	0.0	5.0	10.0

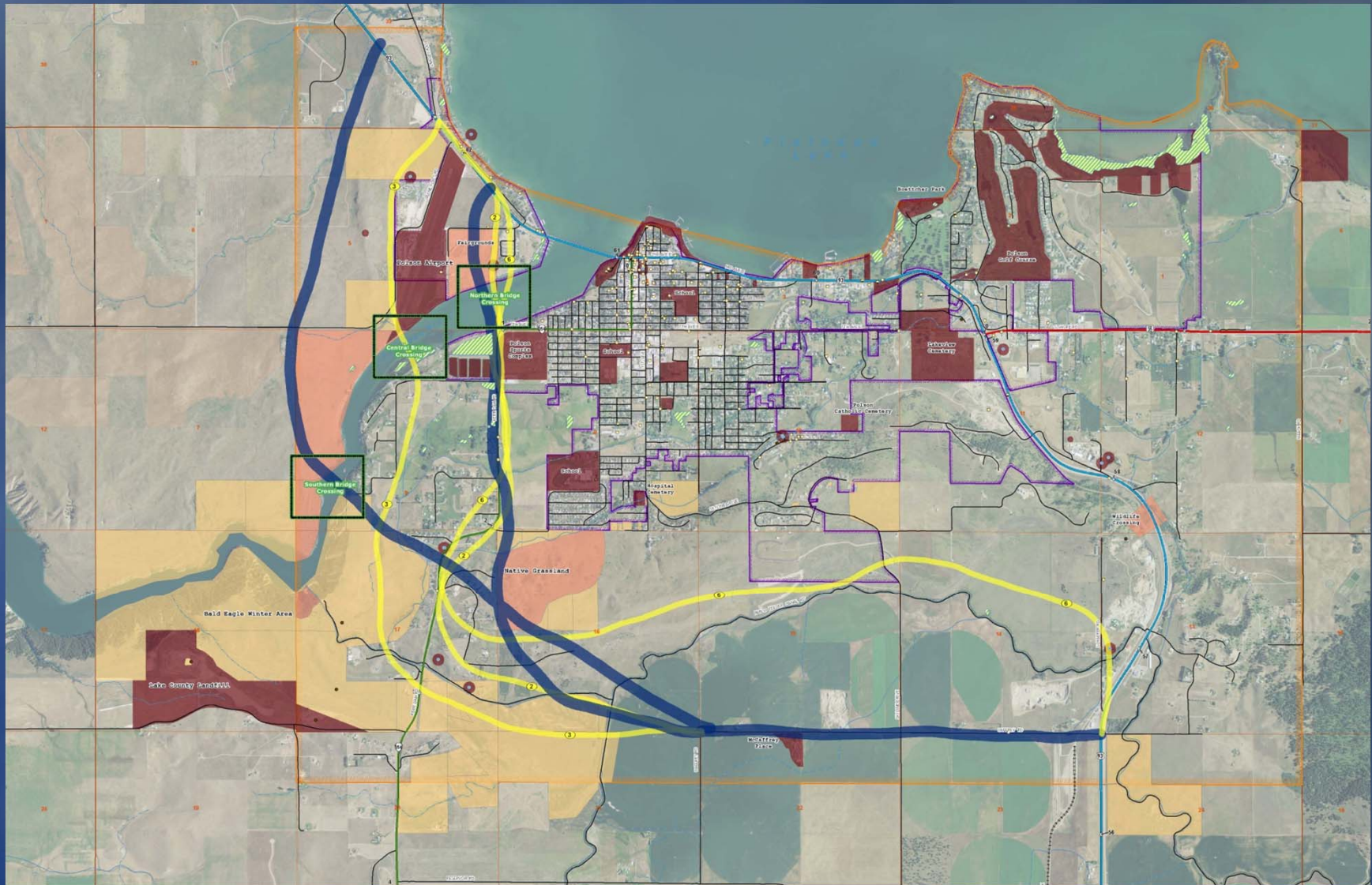
# Screening Results – Using 18 Criteria

Corridor Need & Objectives Screening Criteria (highest possible rating value)	EIS Alignments								QUANTM Alignments		
	1	2	3	4	5	6	7	8	South Bridge	Central Bridge	North Bridge
Connectivity to community parks and recreation (8)	○/0.0	◐/4.0	◑/8.0	○/0.0	◐/4.0	◑/4.0	○/0.0	○/0.0	●/8.0	●/8.0	◐/4.0
<b>Truck traffic</b>											
Length of grades greater than 4 percent (8)	●/8.0	◐/4.0	◑/4.0	●/8.0	●/8.0	◐/4.0	●/8.0	●/8.0	○/0.0	●/8.0	●/8.0
<b>Other</b>											
Overall planning level cost (10)	○/0.0	●/10.0	◐/5.0	◐/5.0	●/10.0	●/10.0	○/0.0	◐/5.0	●/10.0	●/10.0	◐/5.0
Ability of utilities to be incorporated into bridge location and design (10)	○/0.0	○/0.0	◐/5.0	○/0.0	◐/5.0	○/0.0	○/0.0	○/0.0	●/10.0	◐/5.0	○/0.0
Community preference (1)	◐/0.5	◐/0.5	●/1.0	●/1.0	●/1.0	●/1.0	◐/0.5	○/0.0	○/0.0	●/1.0	○/0.0
Maintenance cost (10)	○/0.0	●/10.0	●/10.0	◐/5.0	◐/5.0	●/10.0	◐/5.0	○/0.0	●/10.0	●/10.0	◐/5.0
<b>Screen Result</b>	<b>57</b>	<b>38.5</b>	<b>42</b>	<b>68.5</b>	<b>50.5</b>	<b>41.5</b>	<b>62.5</b>	<b>63</b>	<b>45.5</b>	<b>51.5</b>	<b>37.5</b>

## ◆ Five alignment options scored lowest / best:

- ◆ North bridge crossing (score of 37.5)
- ◆ EIS Alignment 2 (score 38.5)
- ◆ EIS Alignment 3 (score 42)
- ◆ EIS Alignment 6 (score 41.5)
- ◆ South bridge crossing (score 45.5)

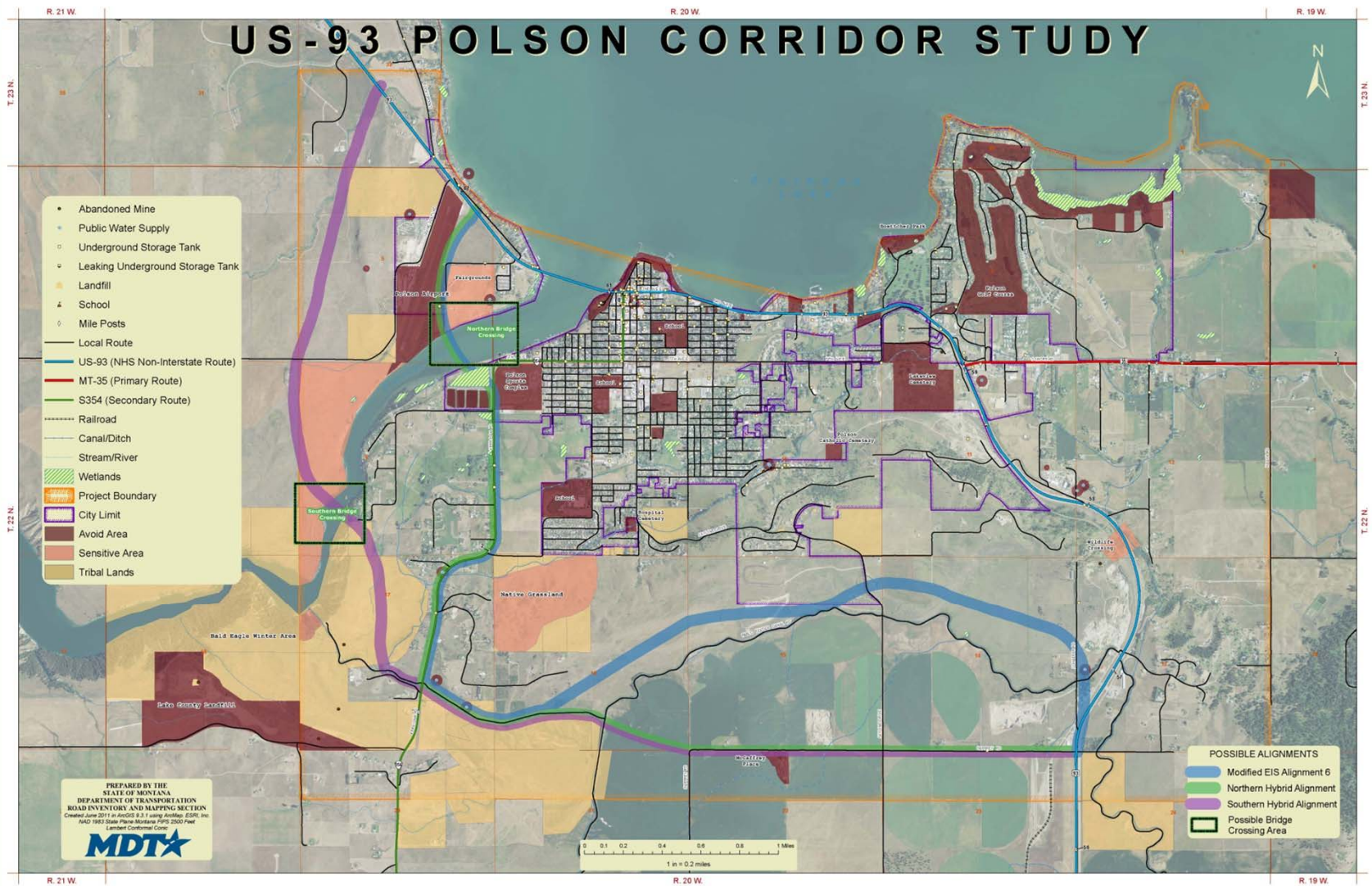
# Remaining Five Alignments



# Hybrid Alignments Developed

- ◆ Slight modifications made to the alignments
- ◆ Southern + EIS Alignment 3 = “southern bridge crossing hybrid alignment”
- ◆ Northern + EIS Alignment 2 = “northern bridge crossing hybrid alignment”
- ◆ EIS Alignment 6 modified slightly to the south of Ponderilla Hills
- ◆ Alignments are planning level “swaths”

# Hybrid Alignments



# Operational Analysis & Cost Comparison

1. Shift in Thru-Truck Traffic
2. Intersection Level of Service
3. Travel Time
4. Cost Comparison

	Southern Bridge Crossing Hybrid	Northern Bridge Crossing Hybrid	EIS Alignment 6
Shift in Thru-Truck Traffic	1	1	1
Intersection LOS Point System Results	1	1	1
Travel Time	1	2	2
Cost Comparison	2	1	2
<b>Total</b>	<b>5</b>	<b>5</b>	<b>6</b>

✓ All rank similarly

# Alternate Route versus Improved US 93 (Facts & Data)

- ◆ What are the trade-offs?
- ◆ Is an alternate route even necessary?
- ◆ Key issues to consider:
  - ◆ Truck Traffic
  - ◆ Congestion
  - ◆ Livability
  - ◆ Safety
  - ◆ Economics
  - ◆ Wildlife/Natural Habitat

# Alternate Route versus Improved US 93 (Facts & Data)

## Truck Traffic

- ◆ Elevated traffic during the summer,
- ◆ Traffic elevates to approximately 130% of AADT in summer,
- ◆ Alternate route may pull 165 thru-trucks during summer months, and
- ◆ Local truck traffic will continue to utilize whichever roadways are necessary for their purposes.



# Alternate Route versus Improved US 93 (Facts & Data)

## Congestion

- ◆ US 93 traffic not an issue except during the summer.
- ◆ Congestion consists of three components:
  - ◆ Roadway segment congestion
  - ◆ Intersection congestion (LOS)
  - ◆ Travel time

# Alternate Route versus Improved US 93 (Facts & Data)

## Congestion

- ◆ Roadway segment congestion:
  - ◆ US 93 can carry year 2010 and year 2030 traffic volumes,
  - ◆ US 93 will exceed capacity for year 2030 peak summer traffic volumes, and
  - ◆ An alternate route could pull 6,000 vehicles (9,000 during peak summer traffic).

# Alternate Route versus Improved US 93 (Facts & Data)

## Congestion

- ◆ Intersection congestion (LOS):
  - ◆ With no alternate route, four of the nine study intersections fall below LOS standard(s) by the year 2030, and
  - ◆ With an alternate route, three of the nine study intersections fall below LOS standard(s) by the year 2030.

# Alternate Route versus Improved US 93 (Facts & Data)

## Congestion

- ◆ **Travel time:**
  - ◆ **Alternate route could be 2 to 3 minutes faster, and**
  - ◆ **Travel time will be longest during the peak summer travel period.**

# Alternate Route versus Improved US 93 (Facts & Data)

## Livability

- ◆ Strong desire for non-motorized improvements,
- ◆ Bicycle lanes on US 93 require expansion to the roadway prism,
- ◆ Potential for non-motorized connections with rural lands (with an alternate route), and
- ◆ Noise impacts may be reduced on the existing US 93 and increased around the alternate route.

# Alternate Route versus Improved US 93 (Facts & Data)

## Safety

- ◆ Average vehicle crash rate(s) in the rural areas slightly higher than average statewide “rural” crash rate,
- ◆ Average vehicle crash rate(s) in the urban areas much less than average statewide “urban” crash rate, and
- ◆ Numerous access points have an effect on crashes.

# Alternate Route versus Improved US 93 (Facts & Data)

## Economics

- ◆ Concerns expressed about economic impact to businesses,
- ◆ Downtown business community has expressed concern about any removal of traffic from US 93, and
- ◆ Economic impacts would be addressed in a formal environmental document should an alternate route be considered.

# Alternate Route versus Improved US 93 (Facts & Data)

## Wildlife/Natural Habitat

- ◆ Concern over an alternate route cutting off connectivity of habitat types,
- ◆ Potential to push wildlife away from their historical habitat, and
- ◆ Keeping US 93 along the current alignment will have the least amount of environmental impact.



# Current / Future AADT

## (Facts & Data)

- ◆ Current AADT volumes range between 9,900 vpd to 12,600 vpd
- ◆ Future year 2030 AADT volumes may range between 12,300 vpd to 15,600 vpd
- ◆ Polson realizes elevated traffic volumes during the summer months.

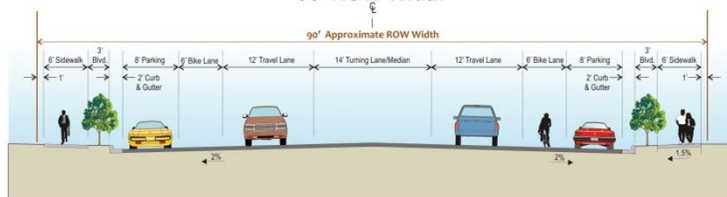
# Current / Future AADT - Seasonal (Facts & Data)

- ◆ Four month “Percent Average Day is of Yearly Average” is 130%
- ◆ With four-month seasonal influence adjustment, future year 2030 AADT volumes may range between 16,000 vpd to 20,400 vpd
- ◆ What is the lane configuration to carry future year 2030 seasonal traffic?

# Potential Geometry with Amenities

- ◆ Without an alternate route, improvements to the existing US 93 will be necessary
- ◆ Improvements to the existing US 93 will be documented in the Polson Area Transportation Plan (currently under development).

**URBAN 3-LANE WITH AMENITIES**  
90' ROW Width



Not To Scale - For Discussion Purposes Only  
US 93 (MT-35 TO FLATHEAD RIVER)

**URBAN 5-LANE WITH AMENITIES**  
120' ROW Width

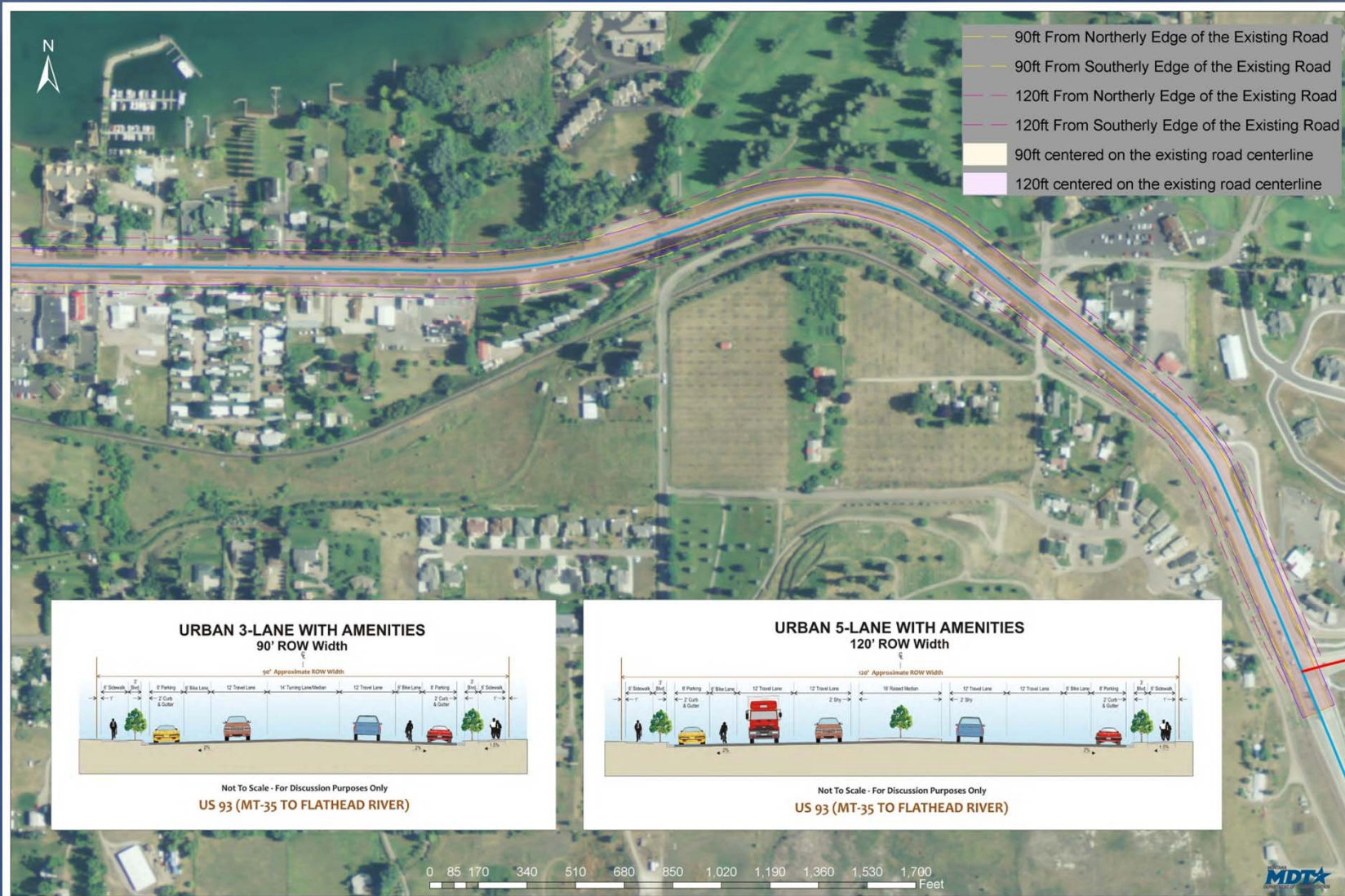


Not To Scale - For Discussion Purposes Only  
US 93 (MT-35 TO FLATHEAD RIVER)

# Potential Right-of-Way Implications



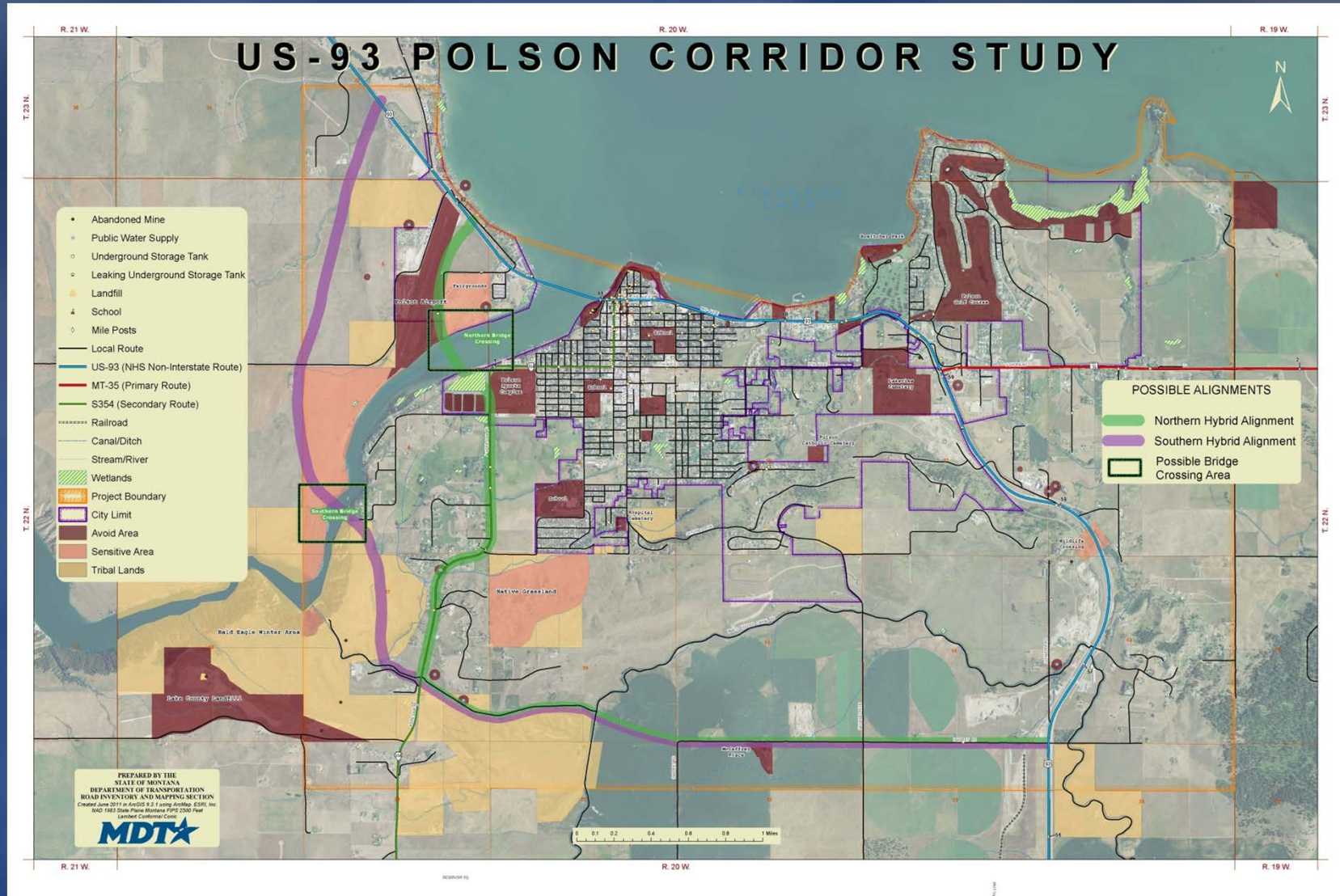
# Potential Right-of-Way Implications



# Draft Corridor Study Results and Findings

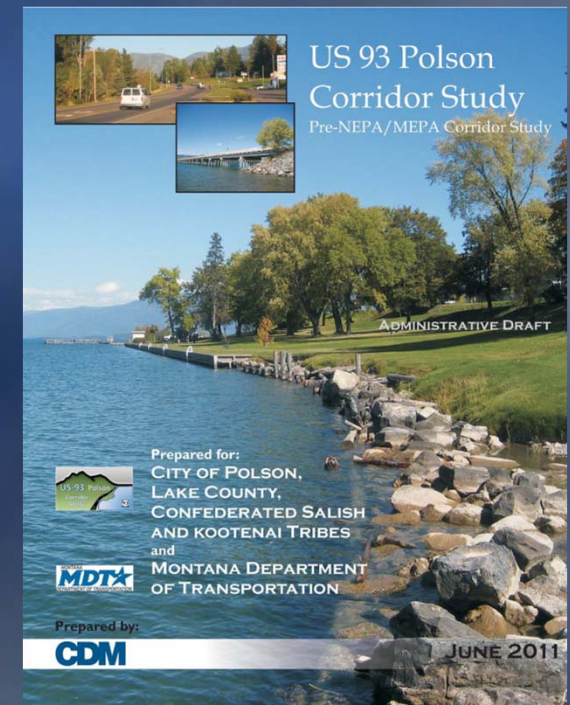
- ◆ Two new alignments (southern & northern) and existing alignment are recommendations of the study
- ◆ Modified EIS 6 was dropped from consideration due to community opposition
- ◆ Information from the study can inform the required Supplemental EIS should funding become available
- ◆ Study shows that major ROW implications exist in order to accommodate future traffic on existing alignment
- ◆ As a planning tool, the study can be used to influence local land use policy

# Potential Alignments Considered Feasible (along with existing US 93)



# Next Steps

- ◆ After the comment submittal date (July 8, 2011), the study team will respond to community comments and complete the US 93 Polson Corridor Study.





# How to Comment / Conclusion

- ◆ We want your comments about the corridor and the improvement options
  - ◆ Comment forms (at meeting)
  - ◆ By email ([Jeff.Key@RPA-HLN.com](mailto:Jeff.Key@RPA-HLN.com) or [sludlow@mt.gov](mailto:sludlow@mt.gov))
  - ◆ Regular mail:

**Jeff Key, P.E. (CDM)**

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Helena, Montana 59601

- ◆ Online at:

[www.mdt.mt.gov/pubinvolve/polsoncorridorstudy/](http://www.mdt.mt.gov/pubinvolve/polsoncorridorstudy/)

