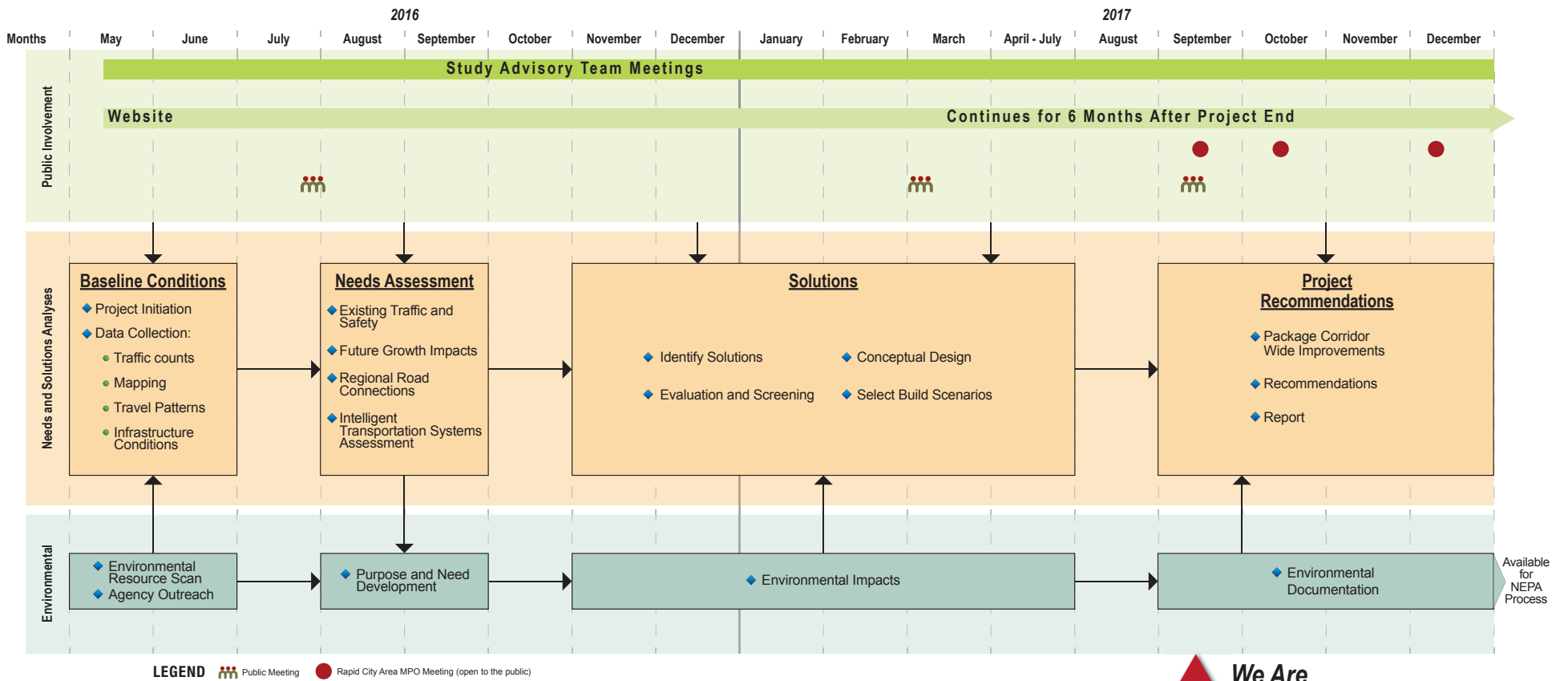


# WELCOME



Please provide your views and ideas through discussions with study team members, and written comment sheets, and keep up to date with the project through: [www.i90corridor61to67.com](http://www.i90corridor61to67.com)

# Schedule/Work Plan



# Study Area & Project Goals & Needs

## Study Goals:

Complete a list of transportation issues and needs facing the I-90 corridor within the study area

Develop feasible solutions to address those issues and needs that meet current design standards and/or traffic level of service expectations under both the current and predicted future traffic conditions while promoting a livable community that will enhance the economic and social well-being of all users of the corridor.

Two primary areas of need will be investigated in this study.

### 1. I-90 Corridor Capacity

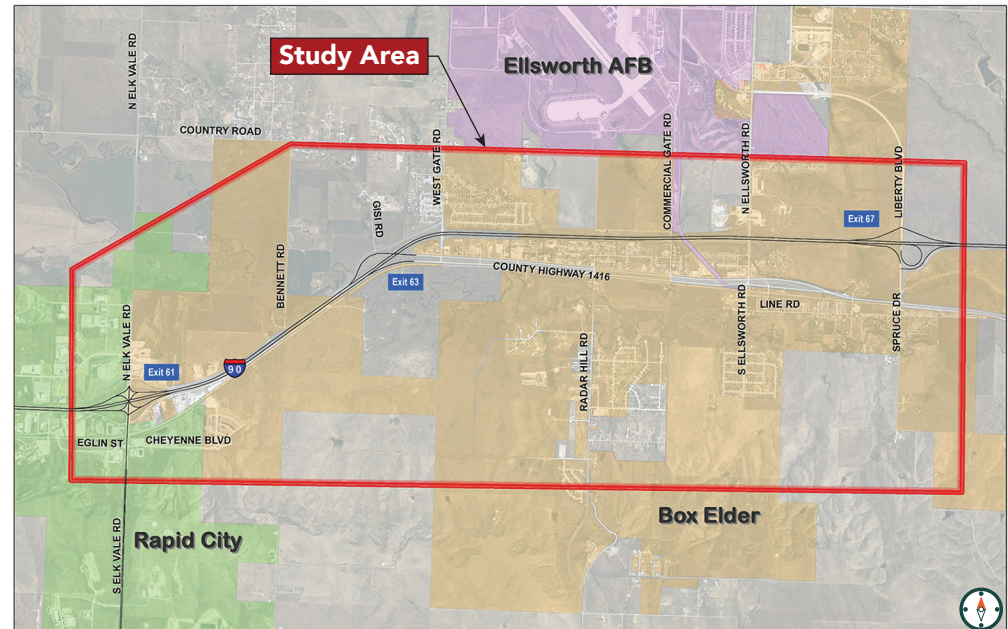
The need for I-90 and the surrounding roadway network to provide acceptable traffic operations and safety now and into the long range future.

Traffic counts, forecasts and analyses may support:

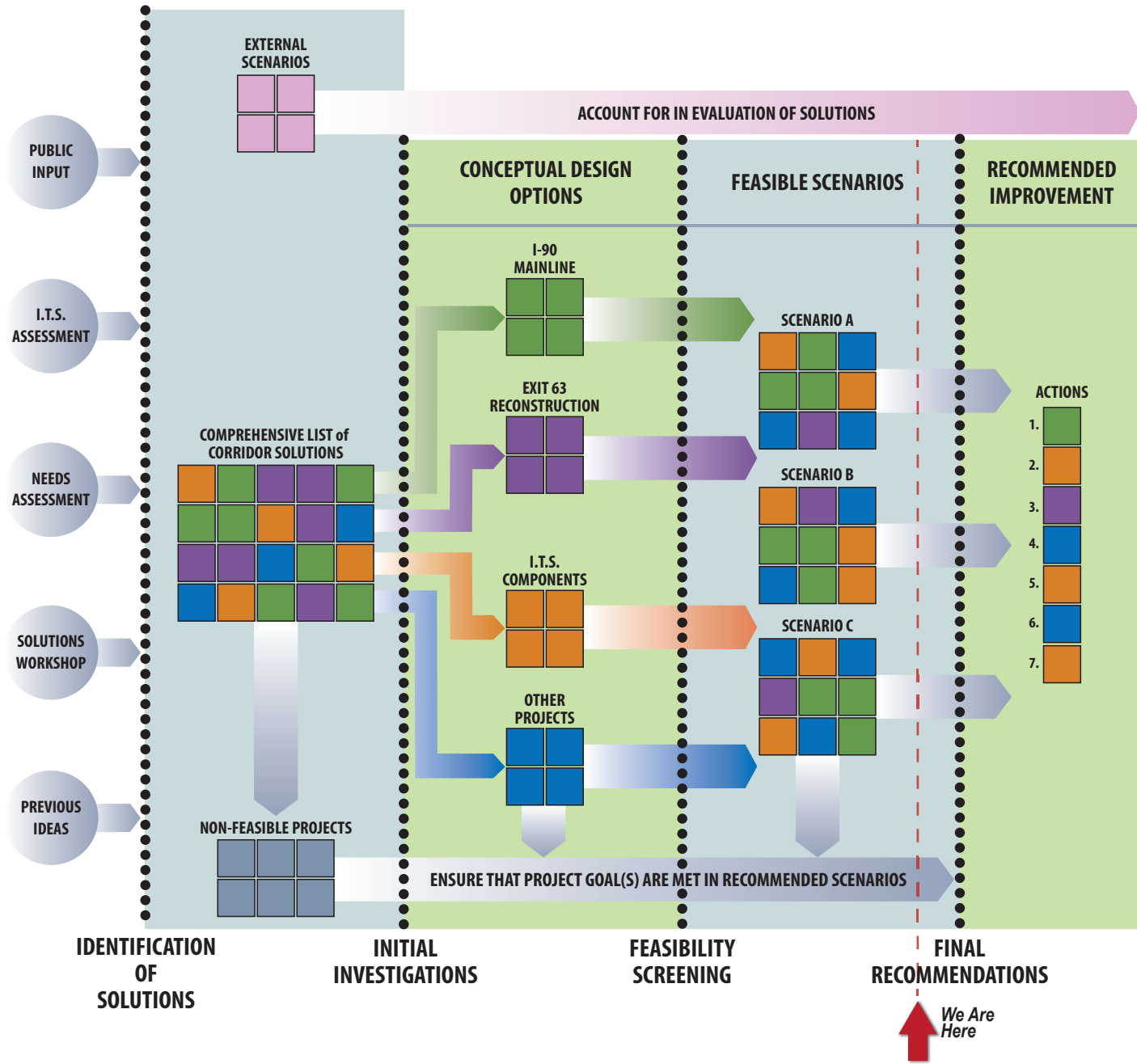
- The need for an additional travel lane along I-90 for all or part of the study corridor
- The need for particular regional roadway network improvements to accommodate vehicle-trips and support I-90
- The need for other multimodal mobility enhancements

### 2. Interchange Access

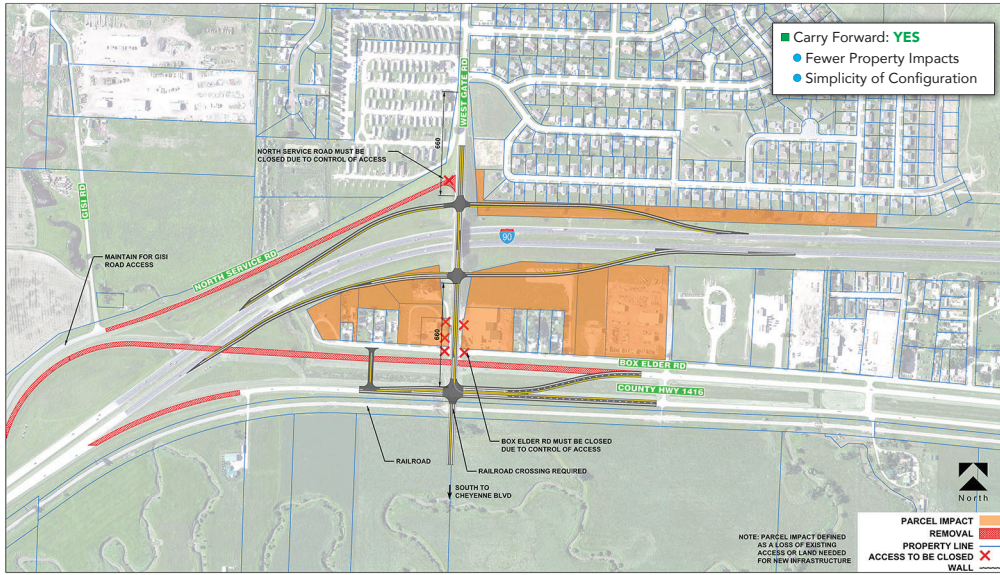
The current half movement interchange provides only for movements to and from the west, not in compliance with current Federal Highway Administration (FHWA) policy requiring that service interchanges provide for all movements. The study will investigate options to bring Exit 63 into compliance with FHWA policy.



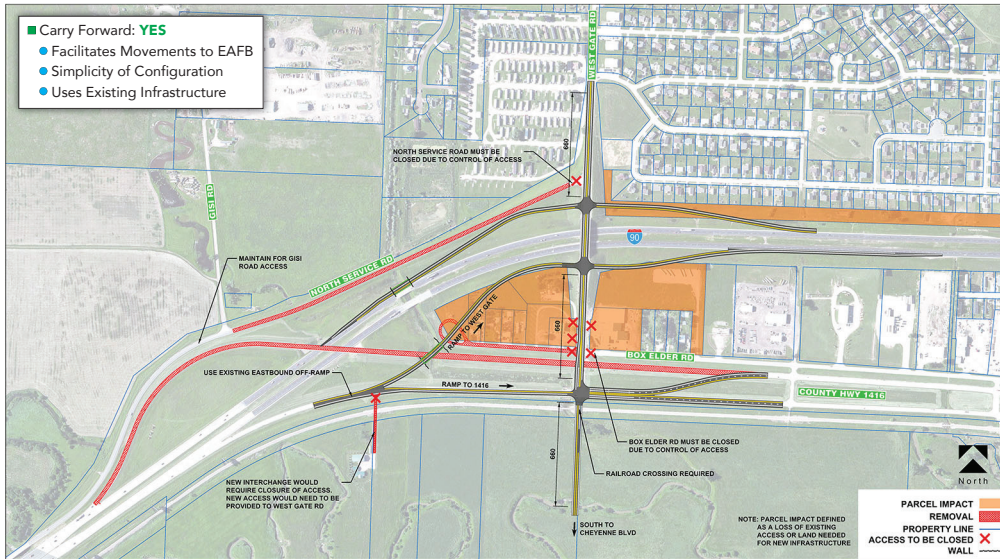
# Solutions Process



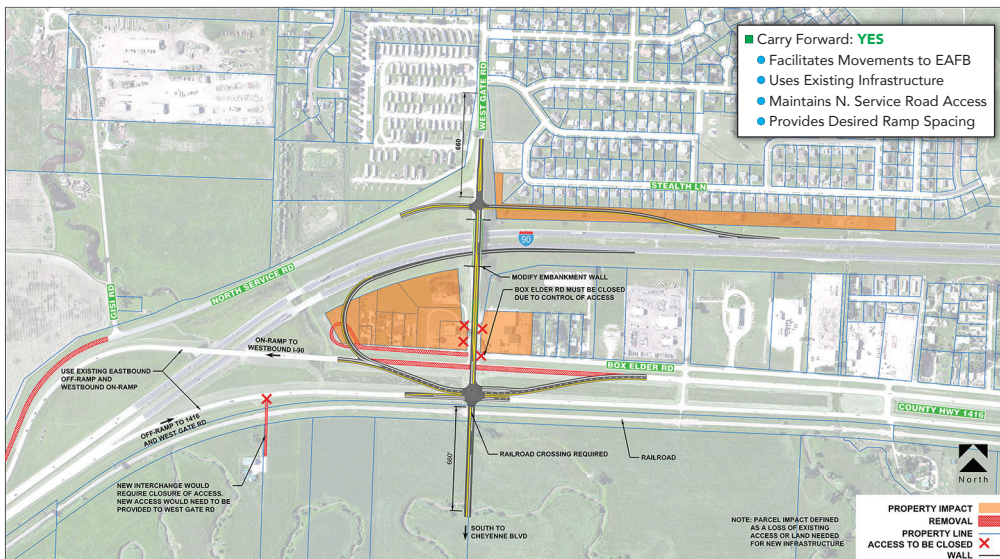
# Exit 63 Alternatives Carried Forward for Further Evaluation



I-90 Exit 63  
 Alternative 1  
 Interchange at  
 West Gate

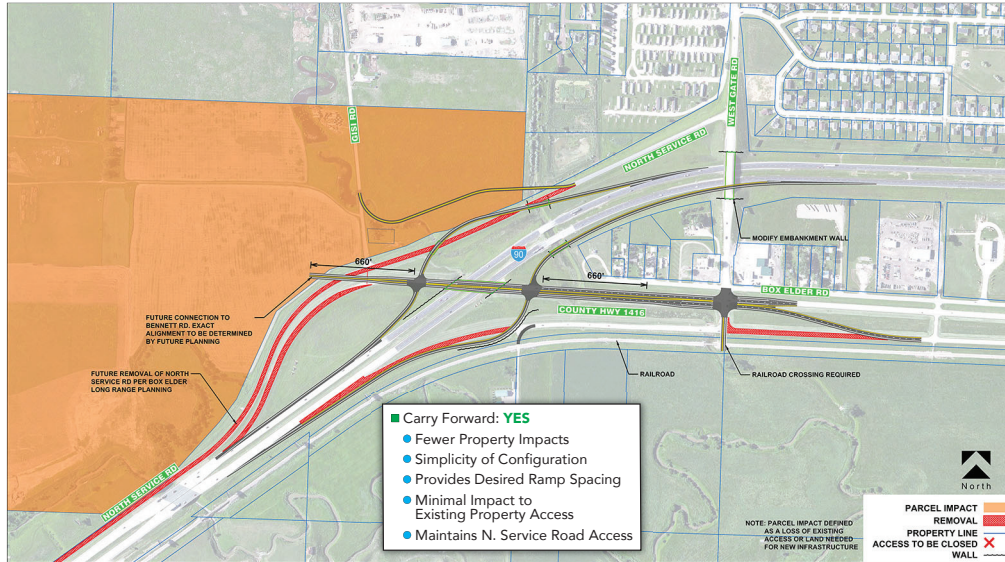


I-90 Exit 63  
 Alternative 2  
 Interchange at  
 West Gate Rd.  
 with Direct Access to  
 Eastbound 1416

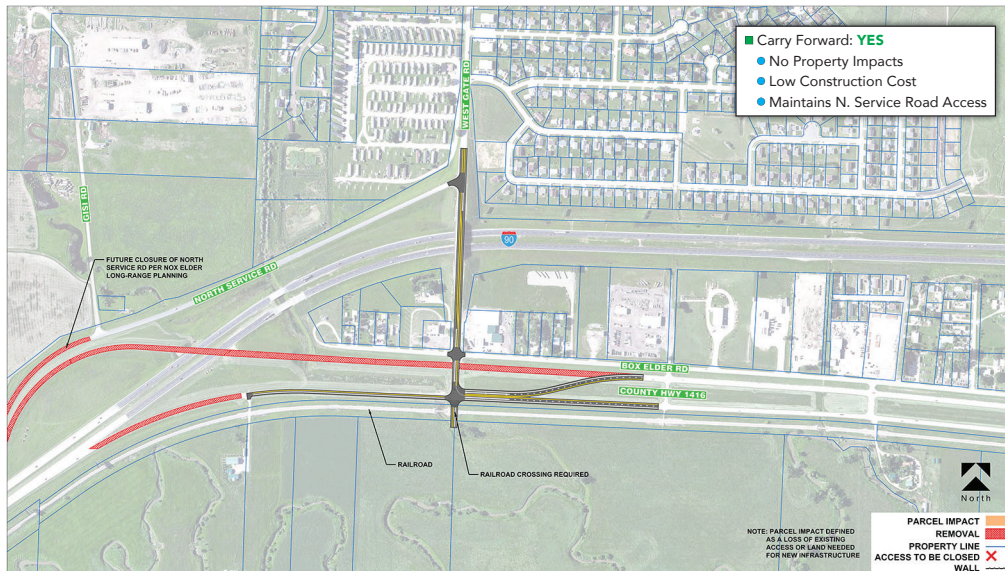


I-90 Exit 63  
 Alternative 3  
 Interchange at  
 West Gate Rd. with  
 Existing West Ramps  
 and New East Ramps

# Exit 63 Alternatives Carried Forward for Further Evaluation



I-90 Exit 63  
 Alternative 4  
 Diamond Interchange at Highway 1416



I-90 Exit 63  
 Alternative 11  
 Exit 63 Removal at County Hwy 1416

# I-90 Exit 63 Evaluation of Options Carried Forward

EXIT 63 INTERCHANGE RECONSTRUCTION ALTERNATIVES		ADDRESS THE NEED FOR THE PROJECT	ENVIRONMENTAL IMPACTS	PRIVATE PROPERTY AND ROW IMPACTS	FACILITATES MOVEMENTS TO AND FROM EAFB	CONSTRUCT-ABILITY	CONSTRUCTION COSTS	CONNECTIVITY WITH EXISTING ROAD NETWORK	DRIVER EXPECTANCY	DESIGN CRITERIA	CONTROL OF ACCESS	PUBLIC COMMENT	CARRY FORWARD?
#	NAME & LOCATION	1	2	3	4	5	6	7	8	9	10	11	
	NO ACTION	↓	NOT SCORED - DOES NOT MEET PURPOSE AND NEED										●
1	WESTGATE DIAMOND	↑	→	→	↘	↑	↘	→	↑	↘	↘	↘	●
2	WESTGATE DIAMOND WITH DIRECT ACCESS TO EAFB	↑	↓	↓	↘	→	↘	→	↘	↘	↓	→	●
3	WESTGATE WITH LOOP RAMP	↑	↓	↘	↑	→	→	↘	↓	→	↘	→	●
4	HIGHWAY 1416 DIAMOND	↑	→	↑	→	↓	↓	↑	↑	↑	↑	↑	●
11	REMOVE EXIT 63	↘	↑	↘	↓	↘	↑	↓	↘	↓	↑	↓	●

Best utilizes existing infrastructure

Easiest to construct

Best meets driver expectancy

Alternatives have most impacts on private property

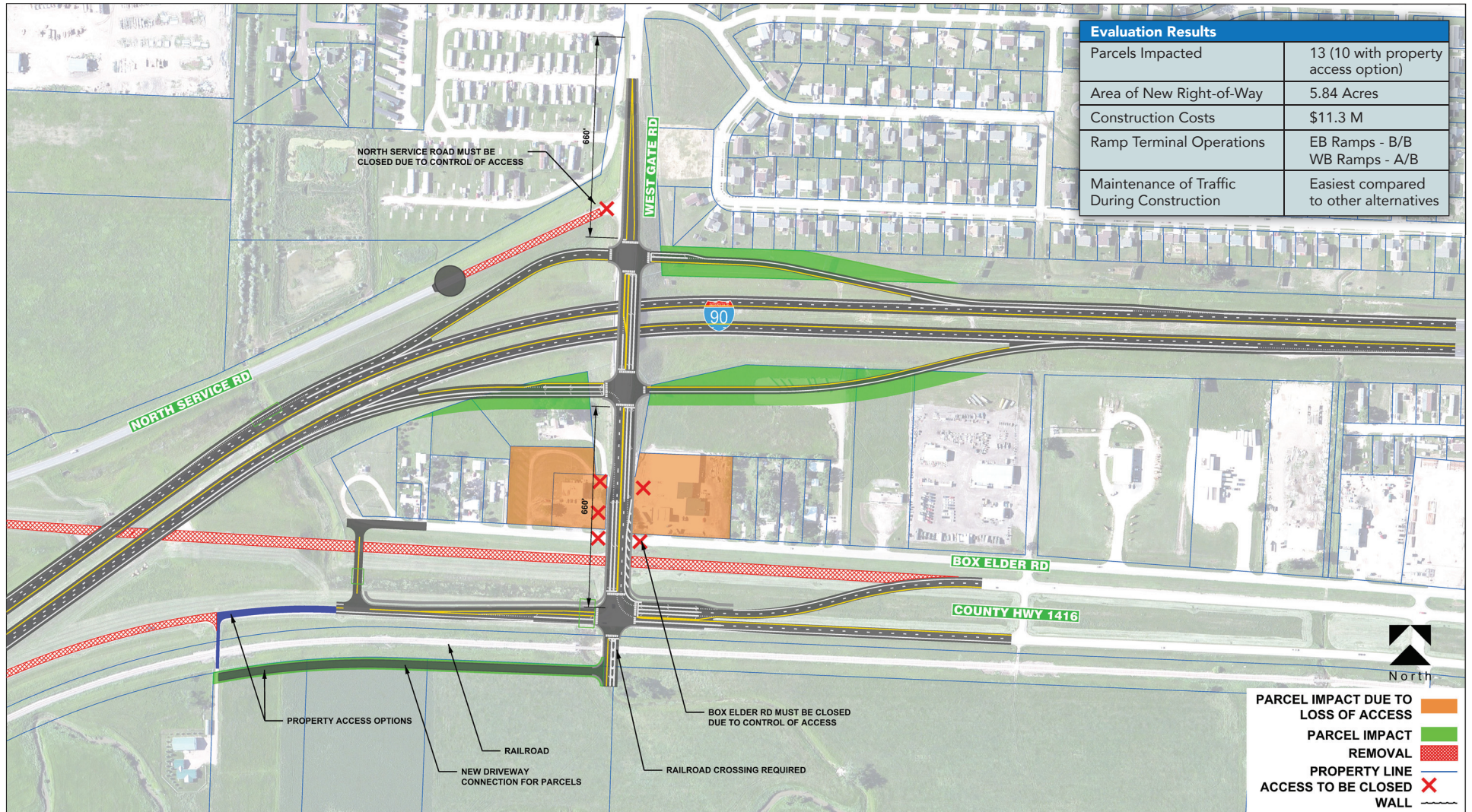
Control of access cannot be achieved

Lowest driver expectancy

**LEGEND**

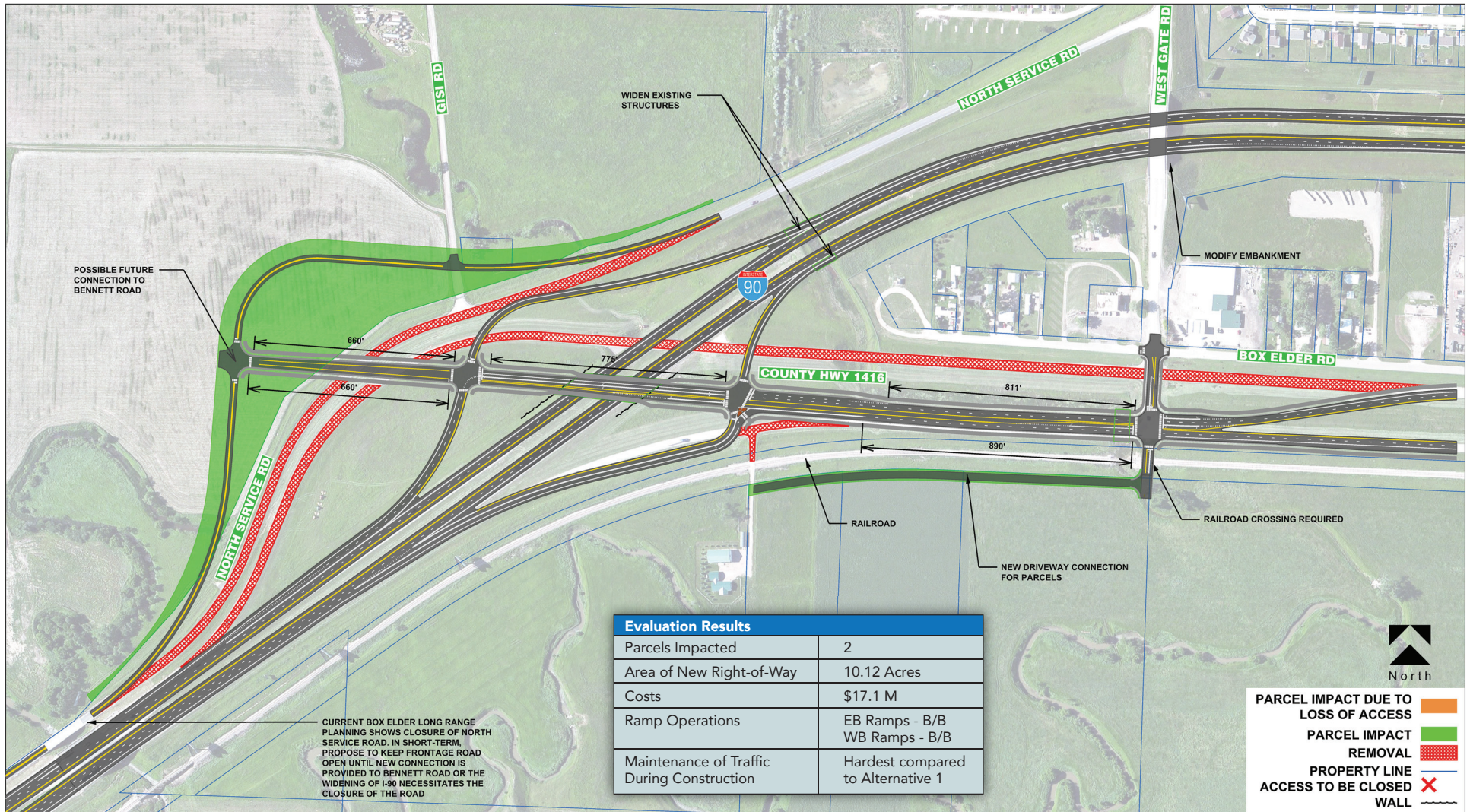
↓	Point Value = 0	Least meets criterion
↘	Point Value = 1	
→	Point Value = 2	
↗	Point Value = 3	
↑	Point Value = 4	Best meets criterion

# Feasible Option 1 - Westgate Diamond

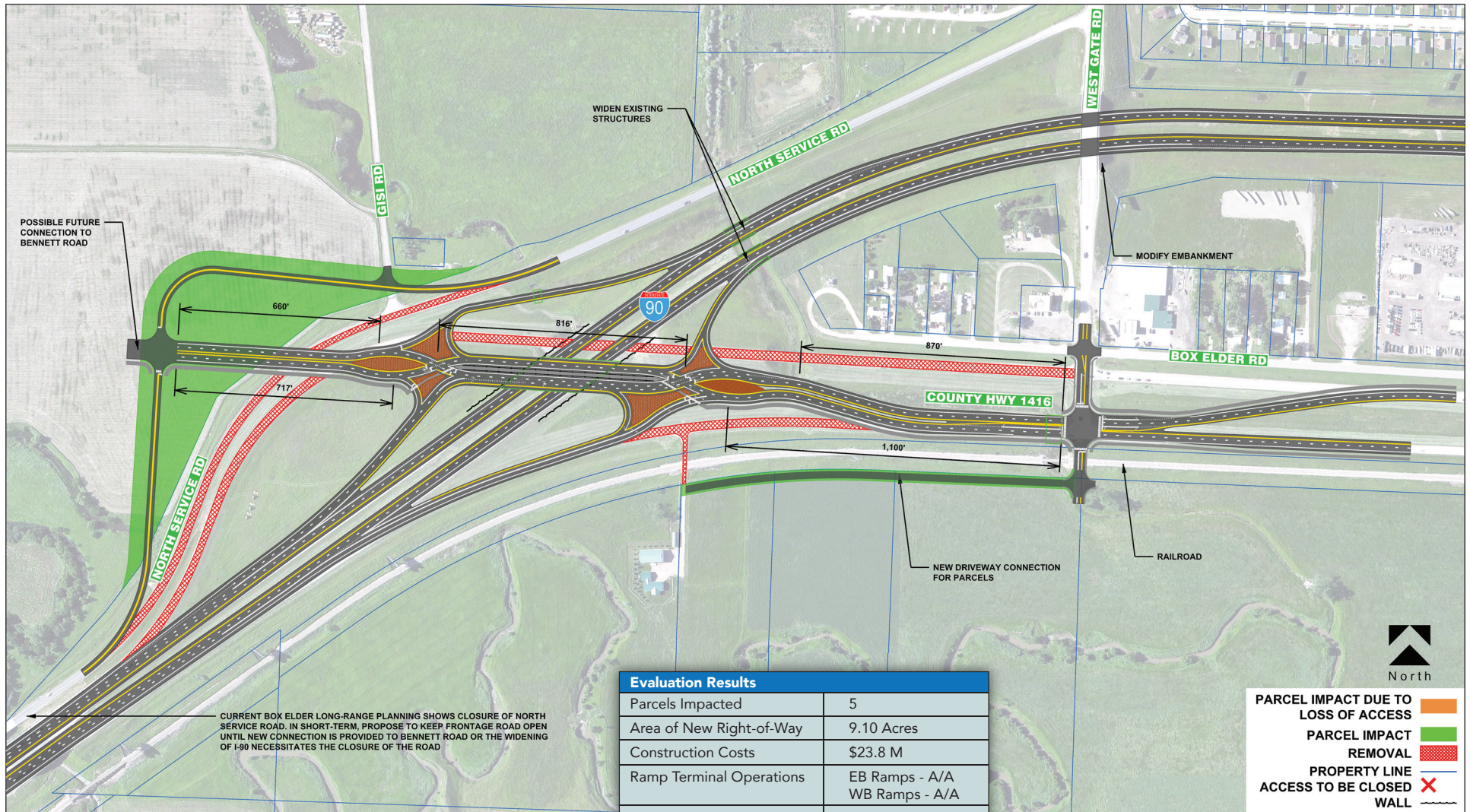




# Feasible Option 4a - Highway 1416 Diamond



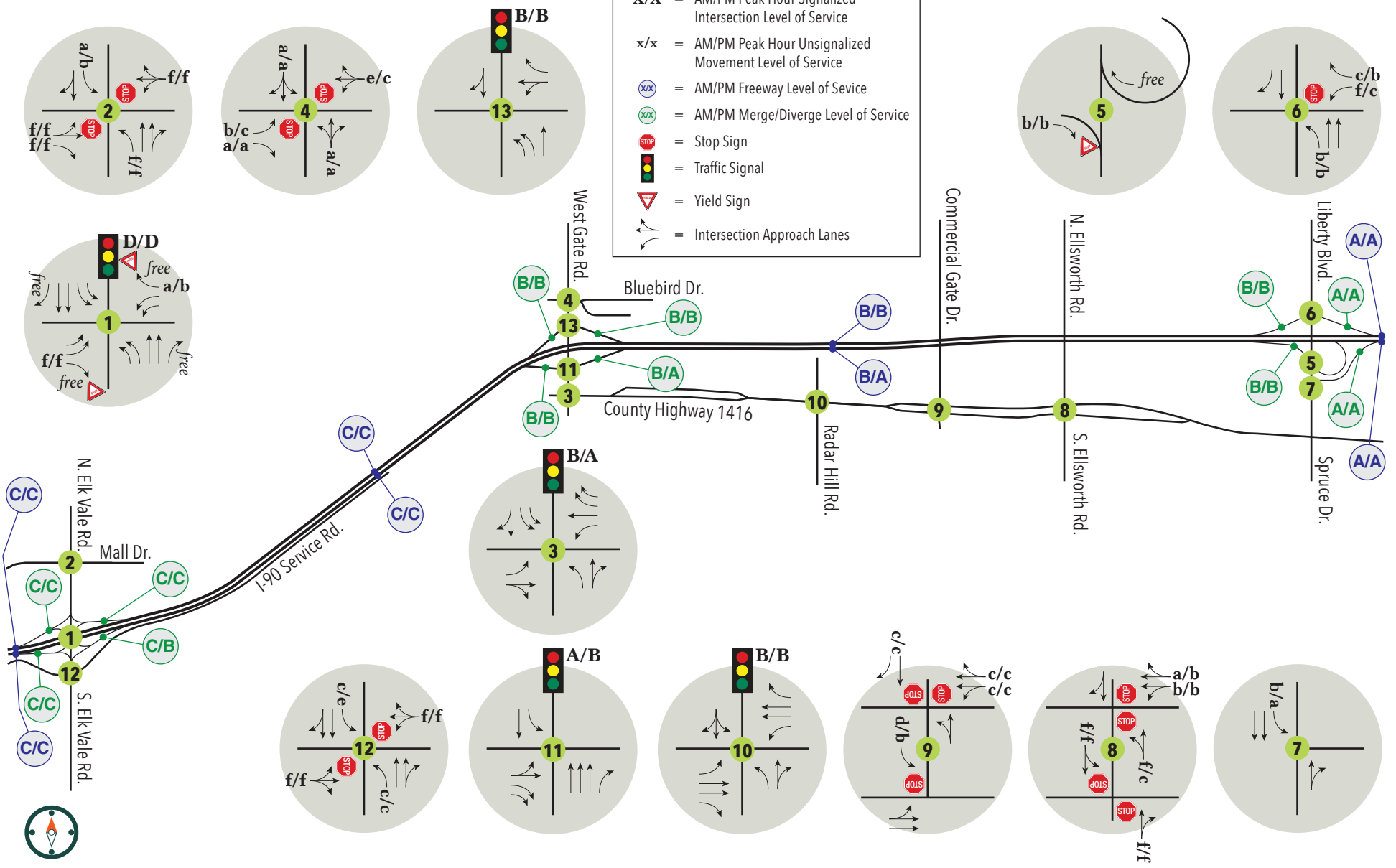
# Feasible Option 4b - Highway 1416 Diverging Diamond Interchange (DDI)



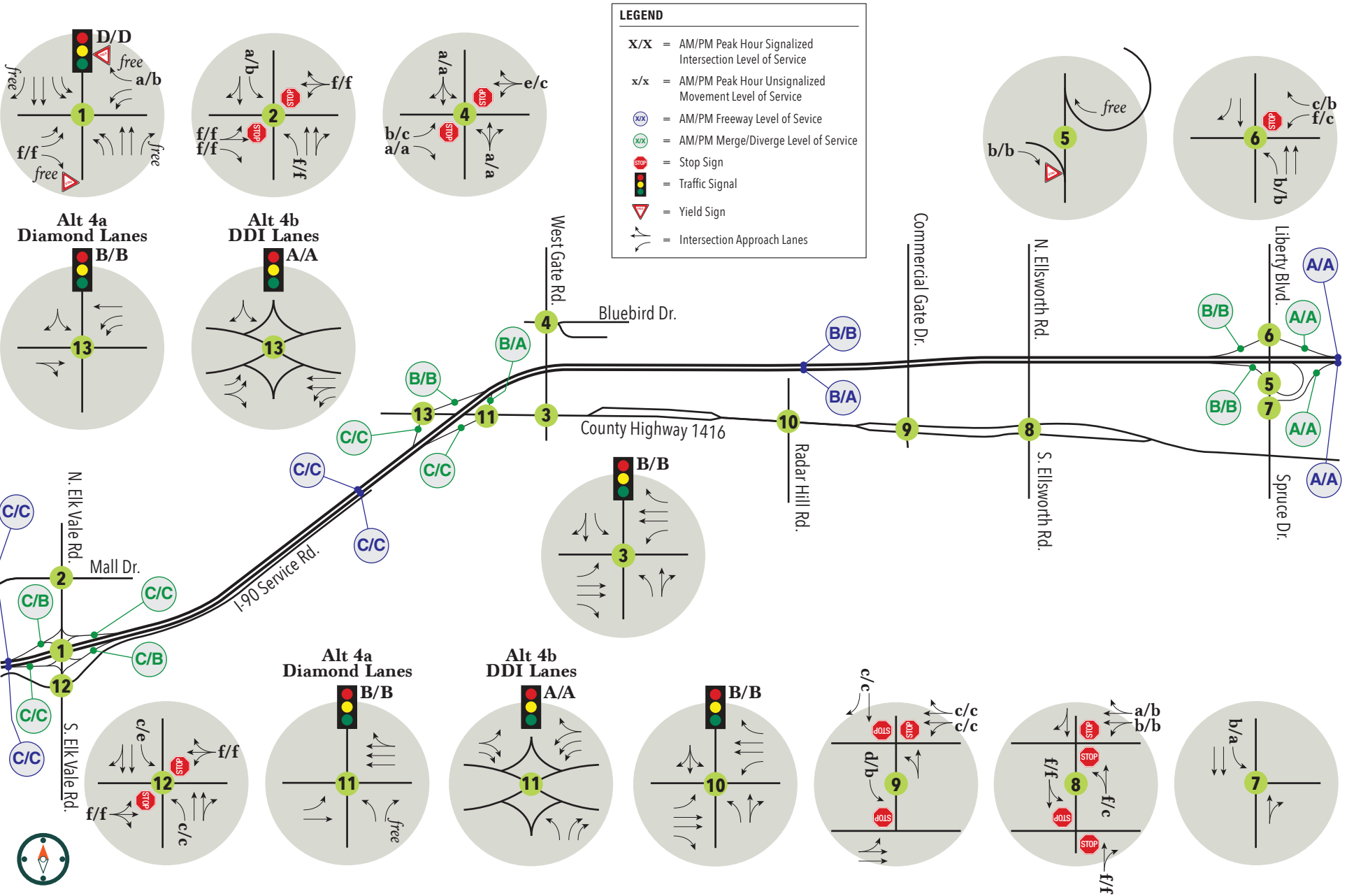
# Alternative 1 2045 Projected Traffic Conditions

**LEGEND**

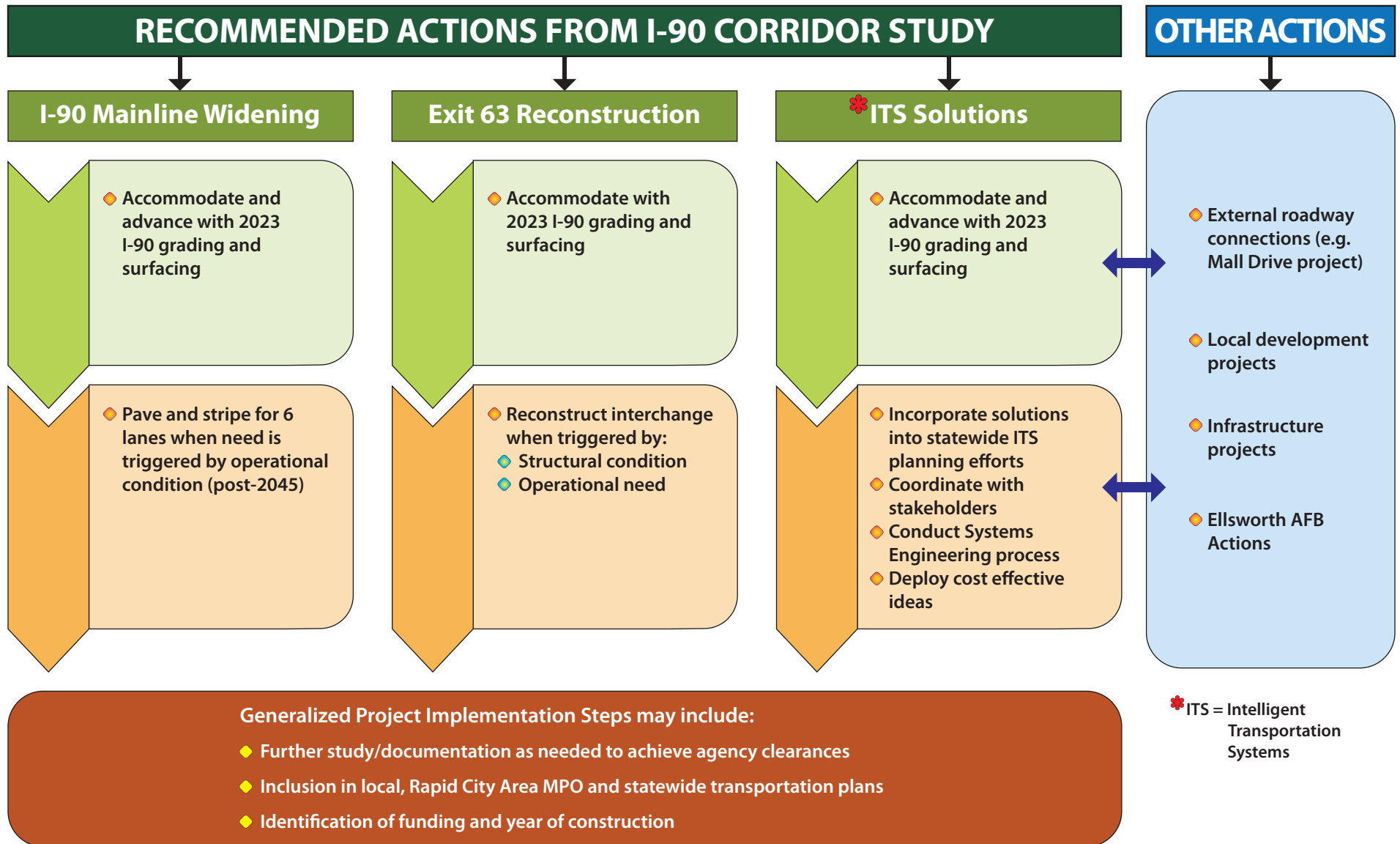
- X/X = AM/PM Peak Hour Signalized Intersection Level of Service
- x/x = AM/PM Peak Hour Unsignalized Movement Level of Service
- xxx = AM/PM Freeway Level of Service
- xxx = AM/PM Merge/Diverge Level of Service
- STOP = Stop Sign
- 🚦 = Traffic Signal
- 🚧 = Yield Sign
- ↔ = Intersection Approach Lanes

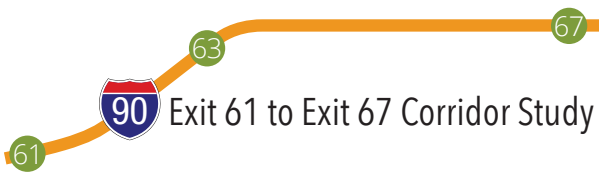


# Alternatives 4a and 4b 2045 Projected Traffic Conditions



# Study Area Project Implementation





# Next Steps

- Update Rapid City Area MPO Committees (9/14)
- Incorporate public and MPO input
- Formulate final recommendations
- Develop draft report for October MPO meeting
- Finalize report for December or first 2018 MPO meeting
- Please visit us at:  
[www.i90corridor61to67.com](http://www.i90corridor61to67.com)

