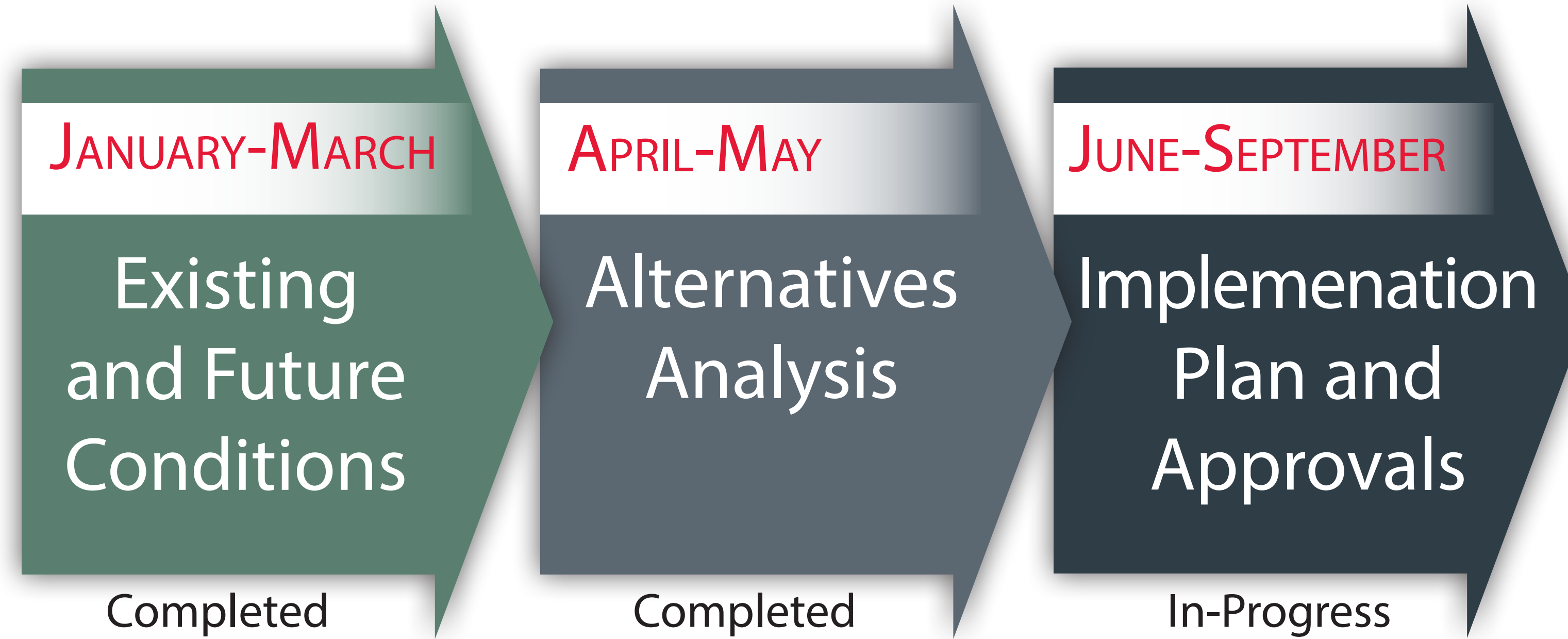


US 2 AND US 81 SKEWED INTERSECTION STUDY

STUDY PURPOSE

The US 2 and US 81 skewed intersection and the Mill Spur railroad create challenging traffic operations, making turning movements for trucks difficult and blocking driveways, and creating safety issues for vehicles, bicycles, and pedestrians.

SCHEDULE



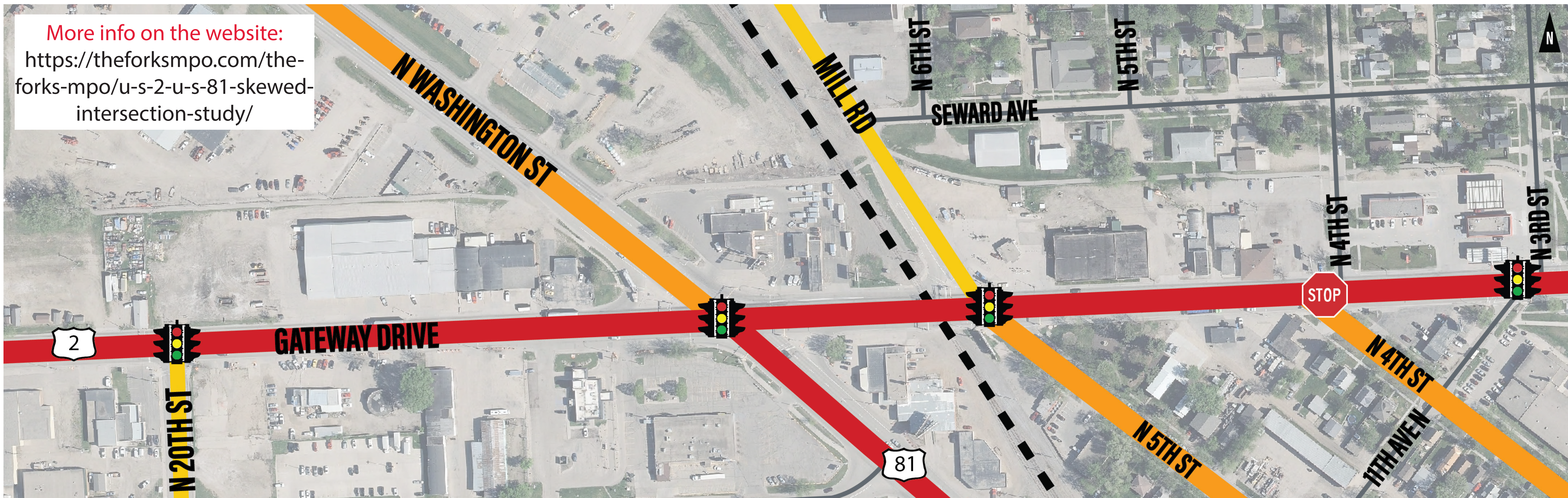
PROJECT SPONSORS

Overcoming Barriers Strengthening Connections
M.P.O. M.P.O. M.P.O. Grand Forks - East Grand Forks
Metropolitan Planning Organization

Ensuring Opportunities Planning One Community

NDDOT
North Dakota
Department of Transportation

CITY OF
GRAND FORKS
NORTH DAKOTA

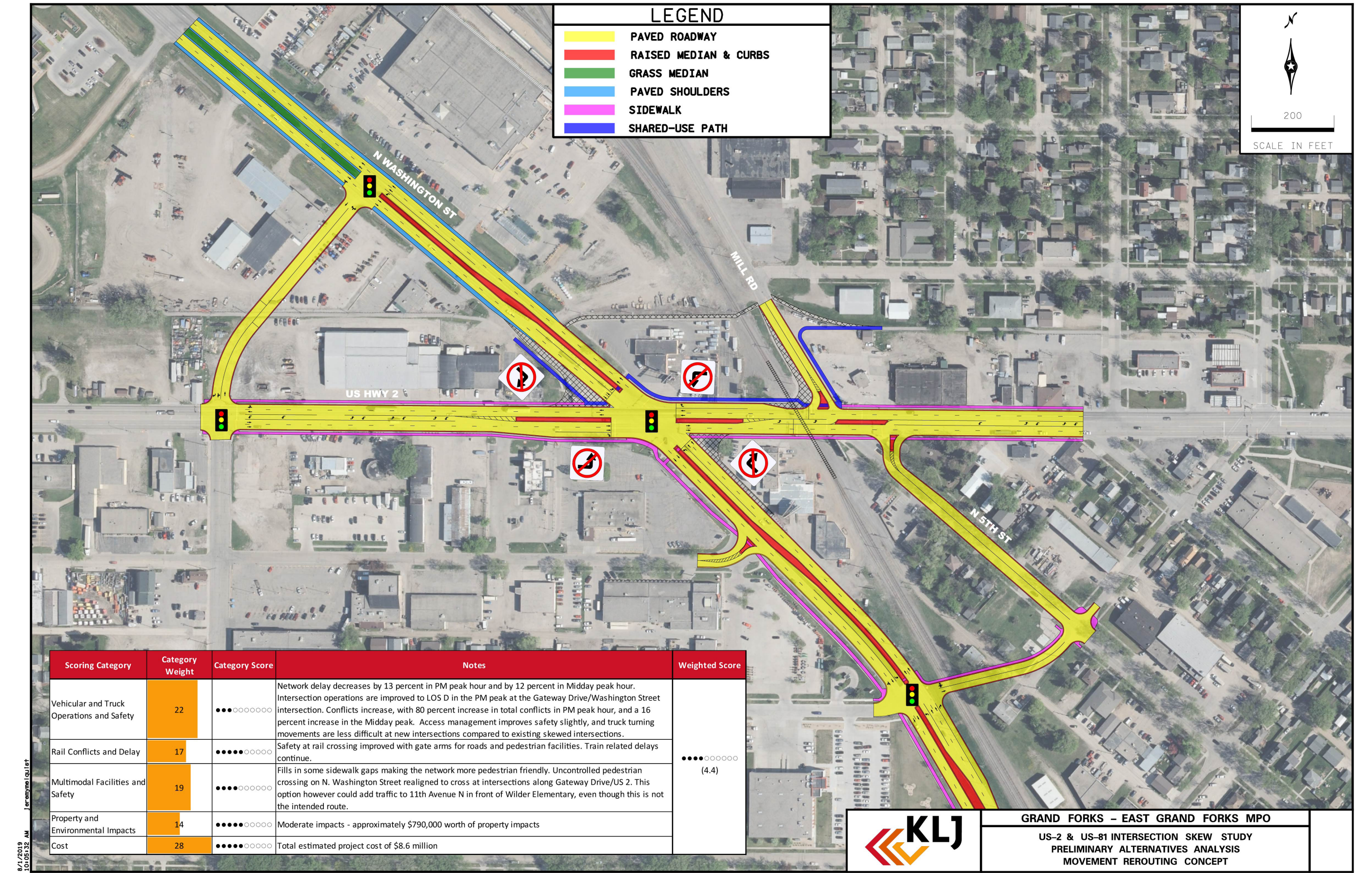


ROADWAY IMPROVEMENT ALTERNATIVES

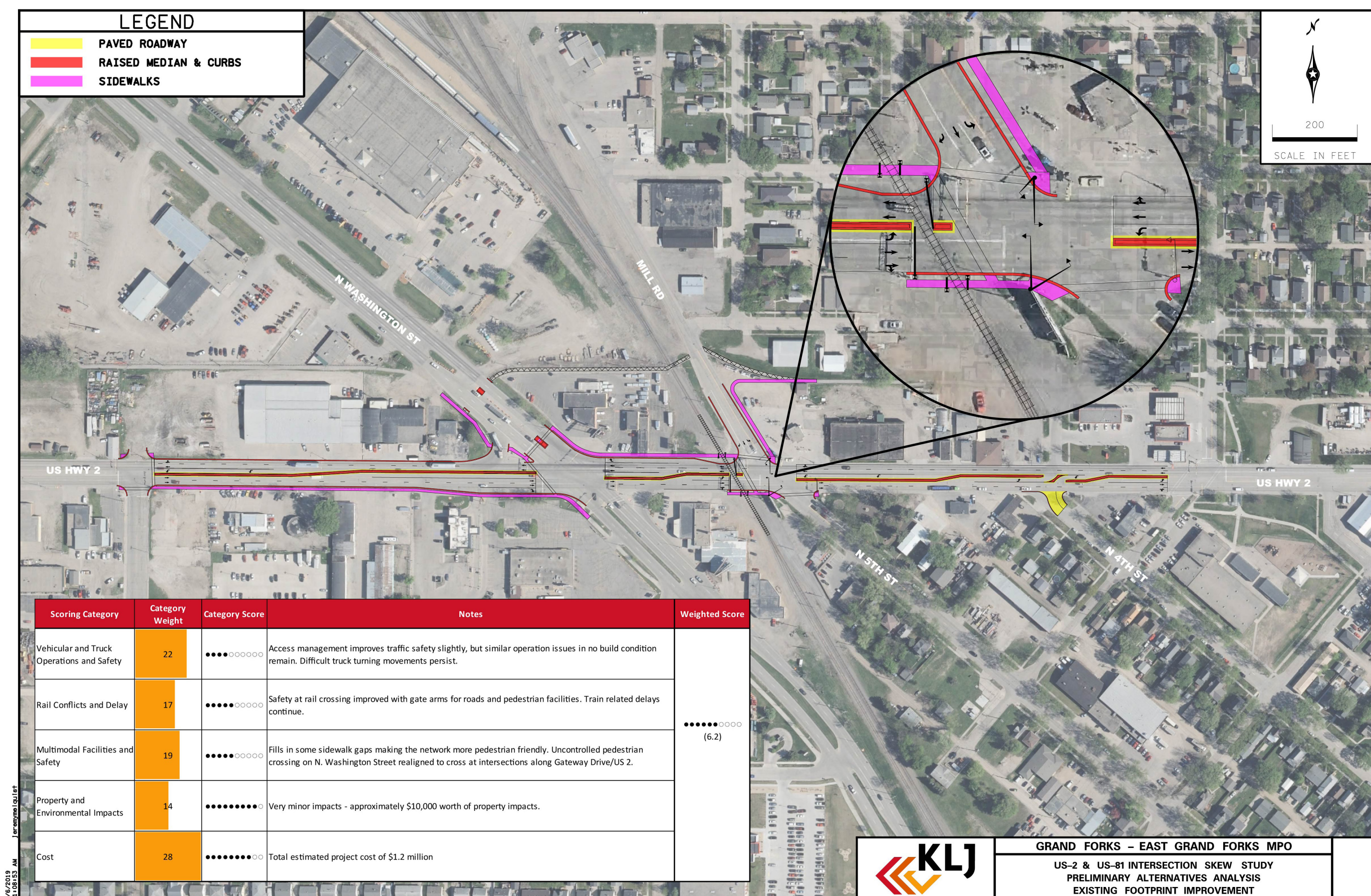
Existing Conditions:



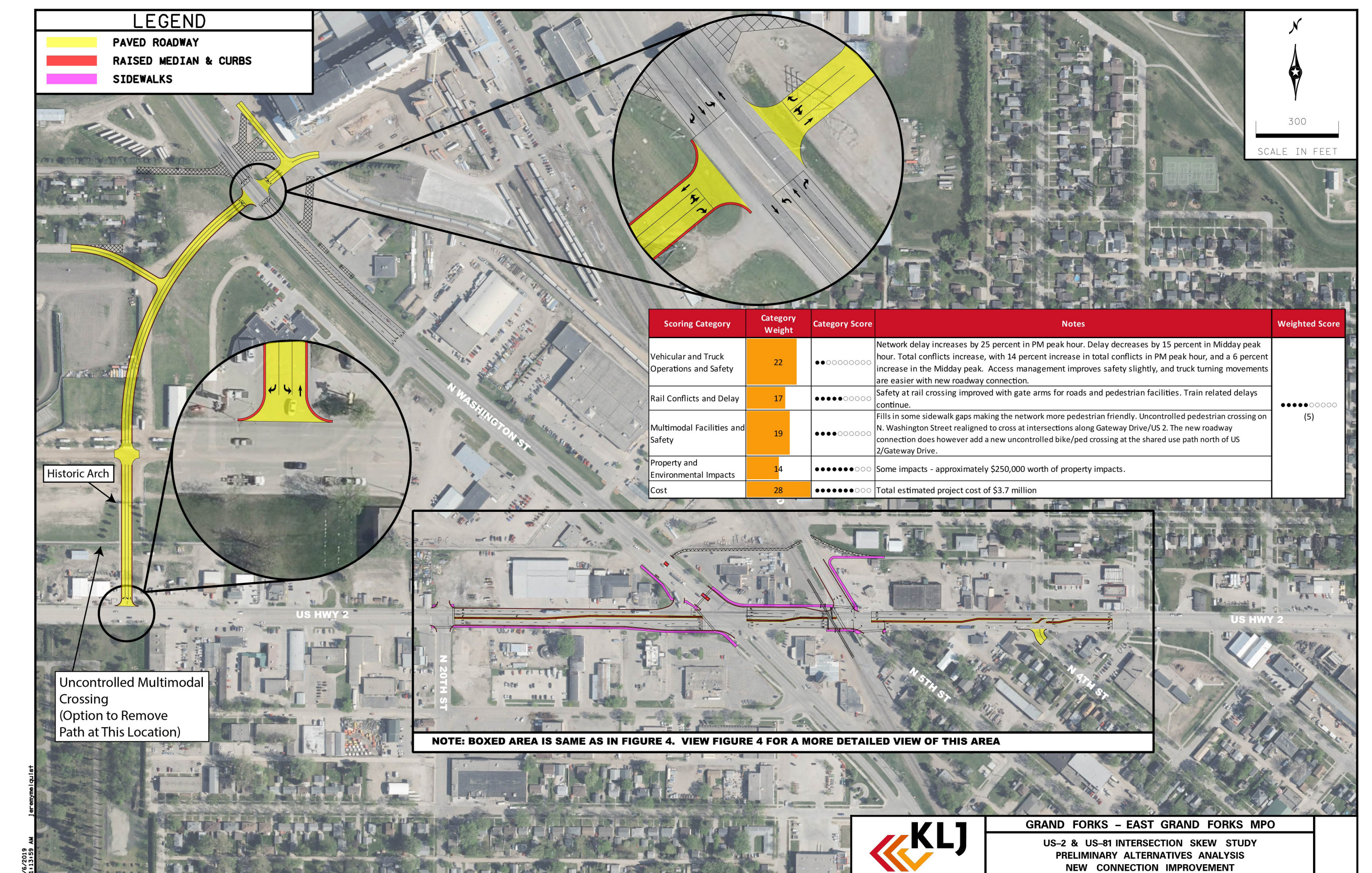
Skewed Movement Rerouting:



Existing Footprint Improvement Plan:

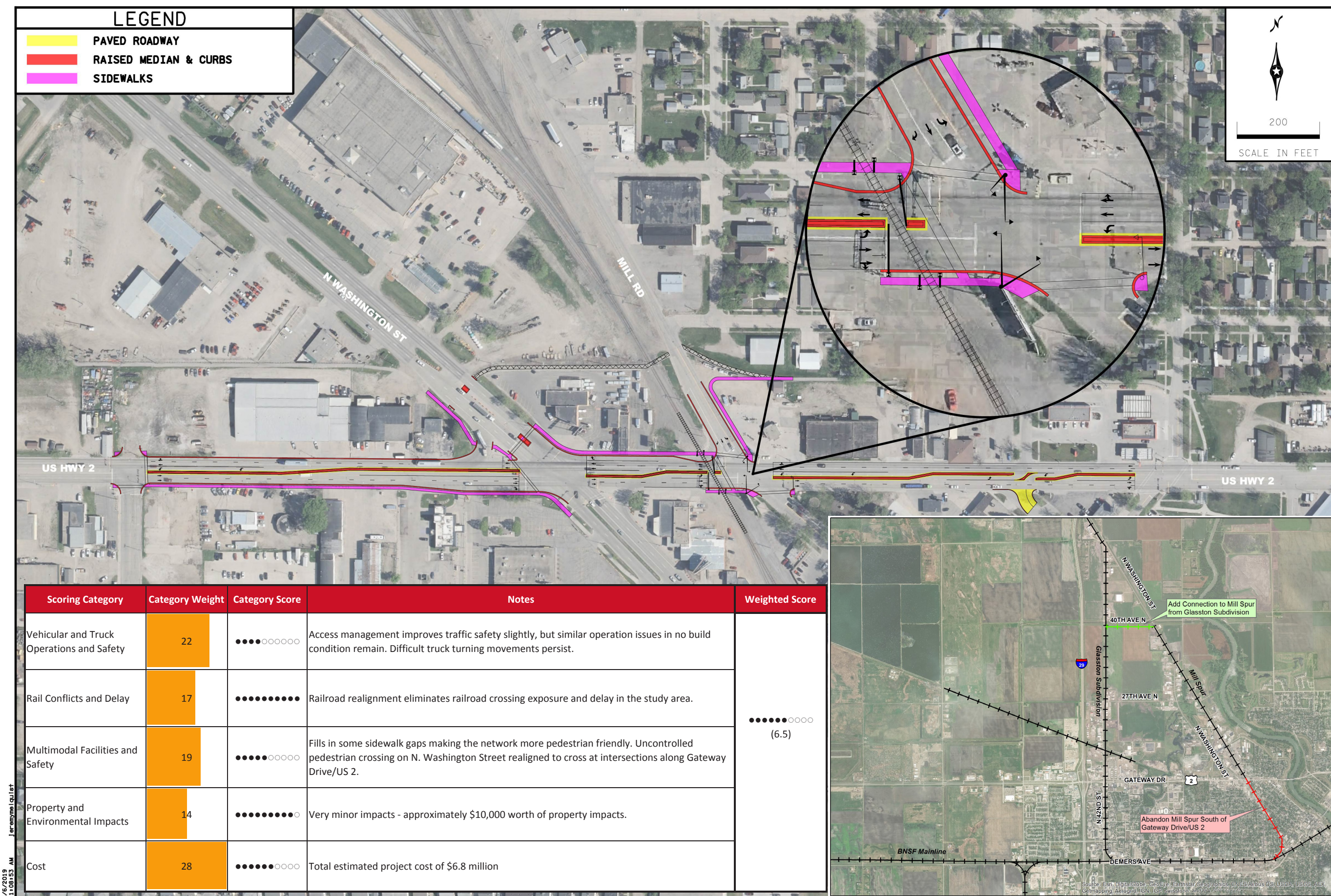


New Roadway Connection:

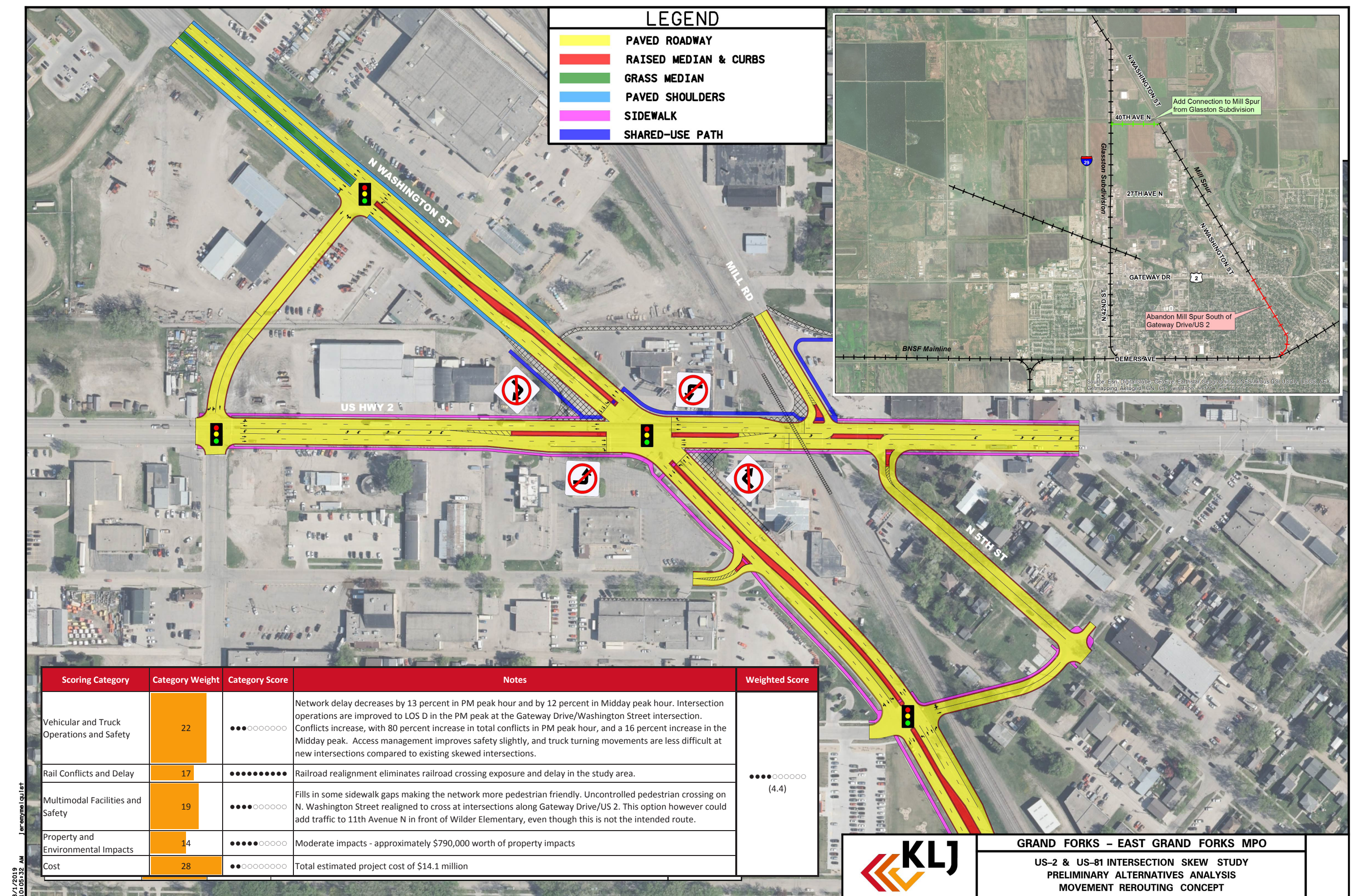


ROADWAY IMPROVEMENT ALTERNATIVES

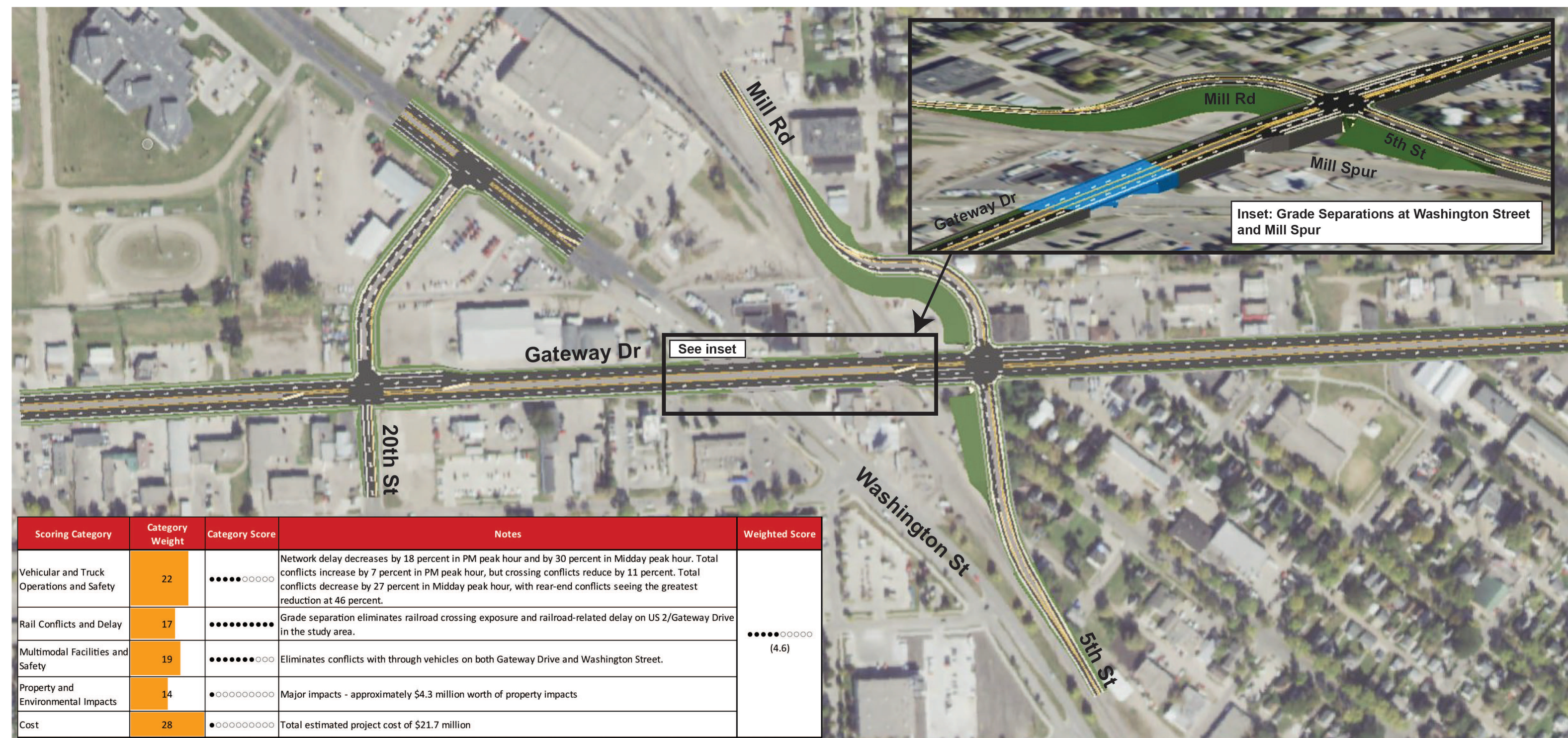
Existing Footprint Plan + Railroad Realignment:



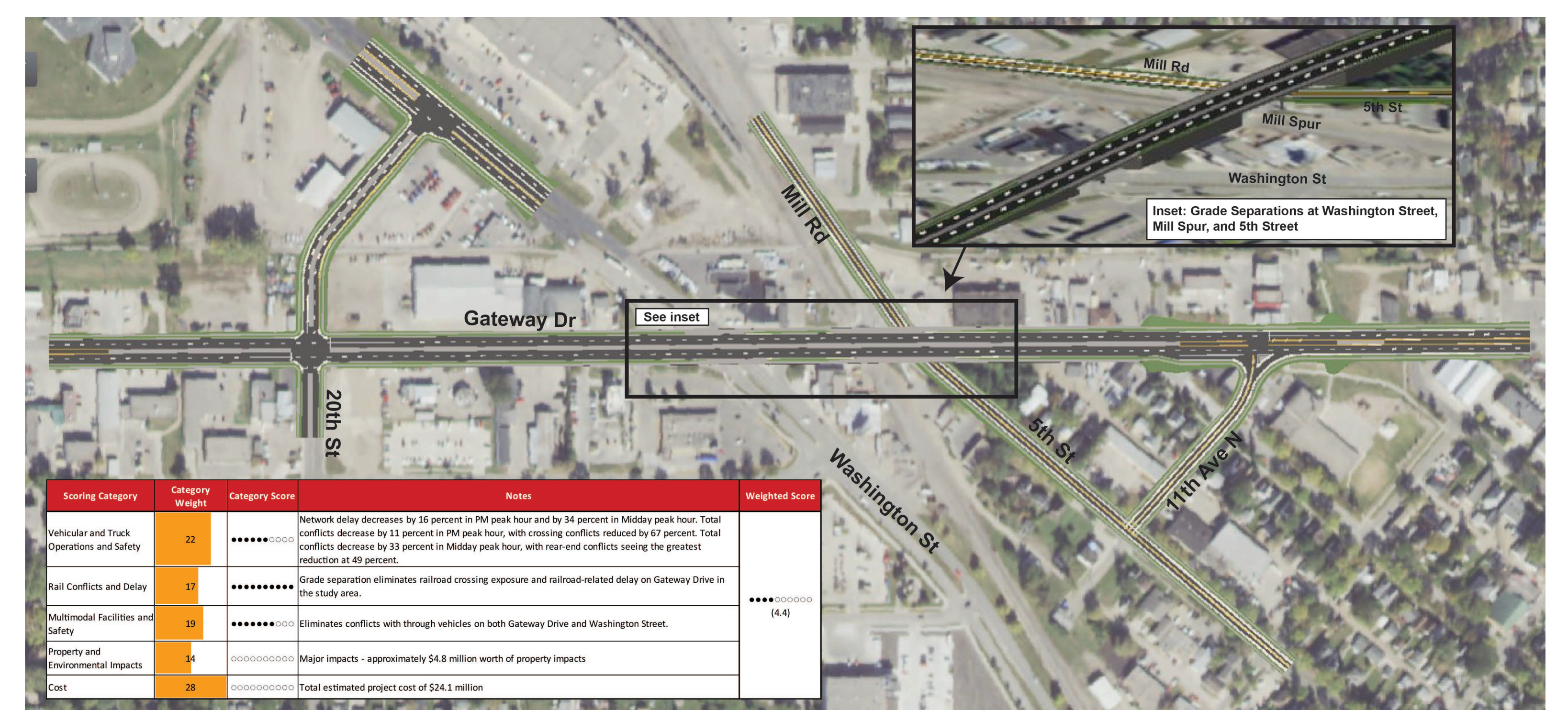
Skewed Movement Rerouting + Railroad Realignment:



Grade Separation of Washington Street and Mill Spur:

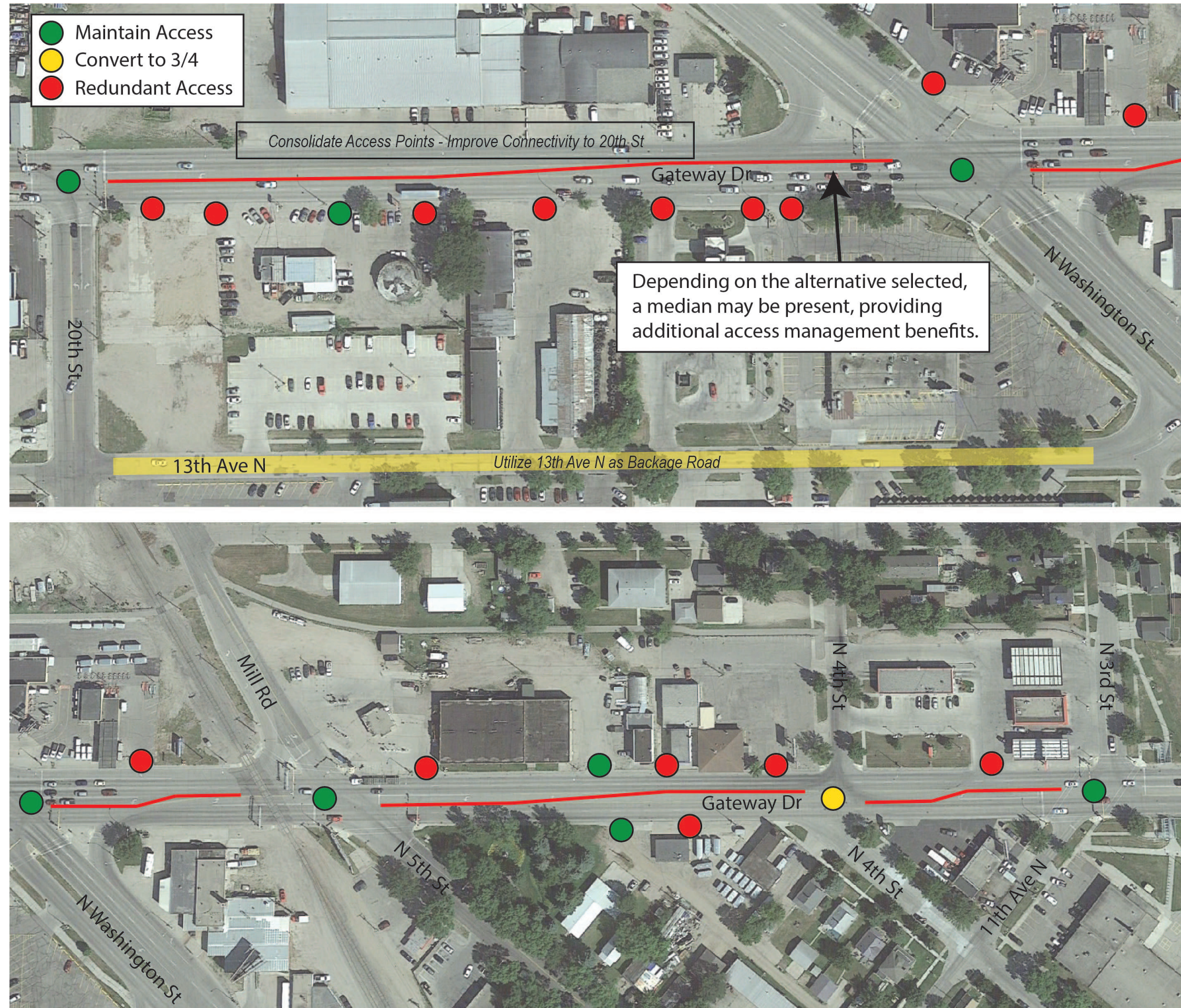


Grade Separation of Washington Street, Mill Spur, and Mill Road:



OTHER IMPROVEMENTS AND SUMMARY OF ALTERNATIVES

Access Management Opportunities:

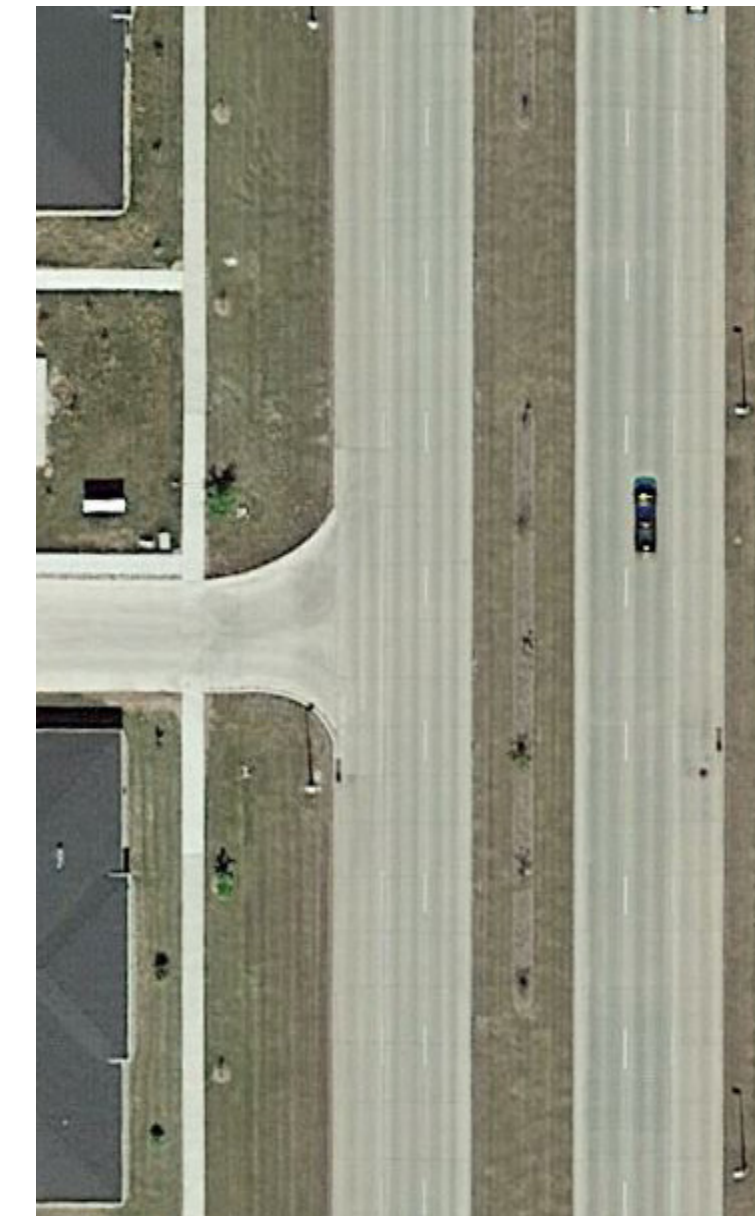


Access management consolidates and simplifies roadway access points to improve traffic flow and improve roadway safety. Access management principles can be applied to any of the alternatives.

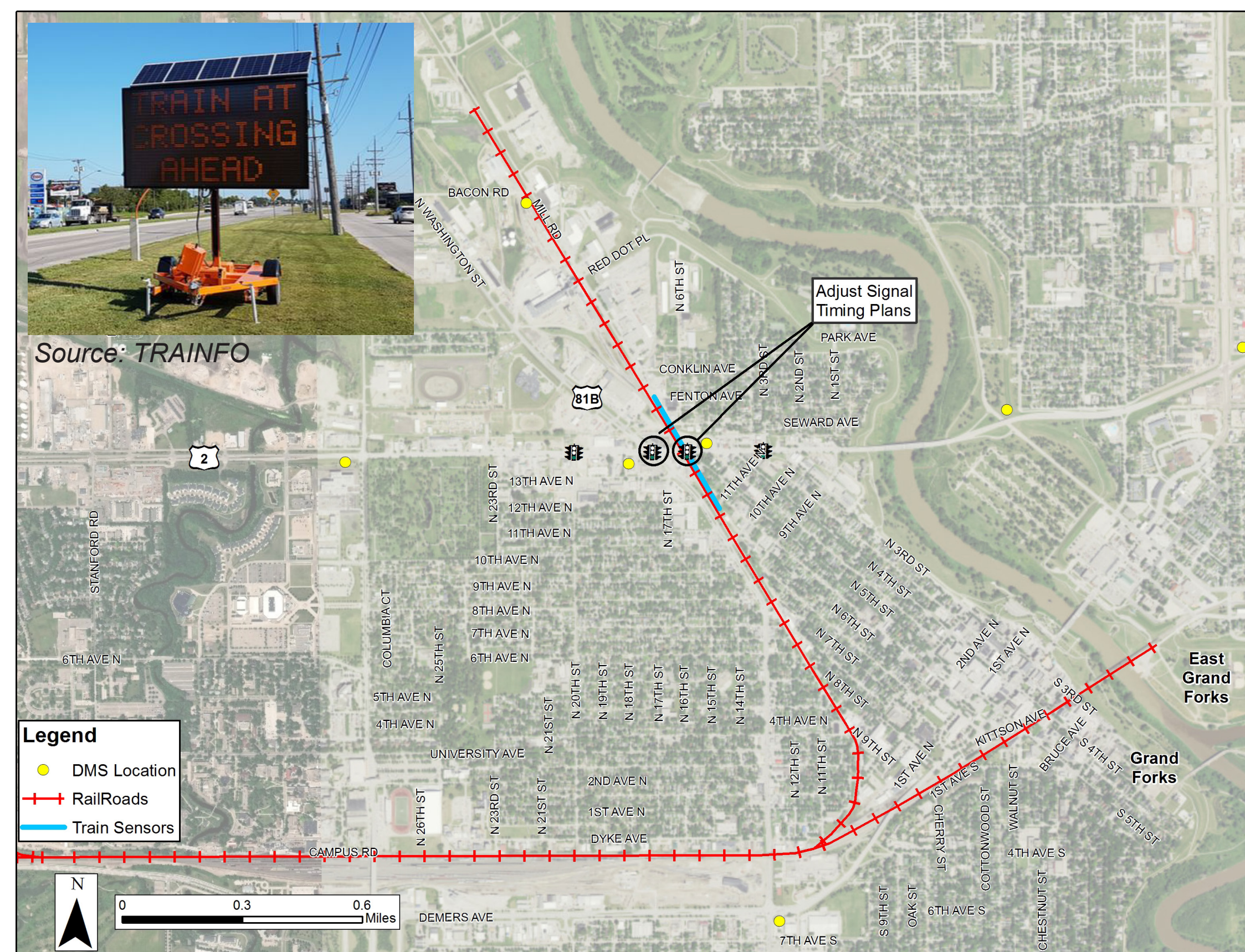
3/4 Access



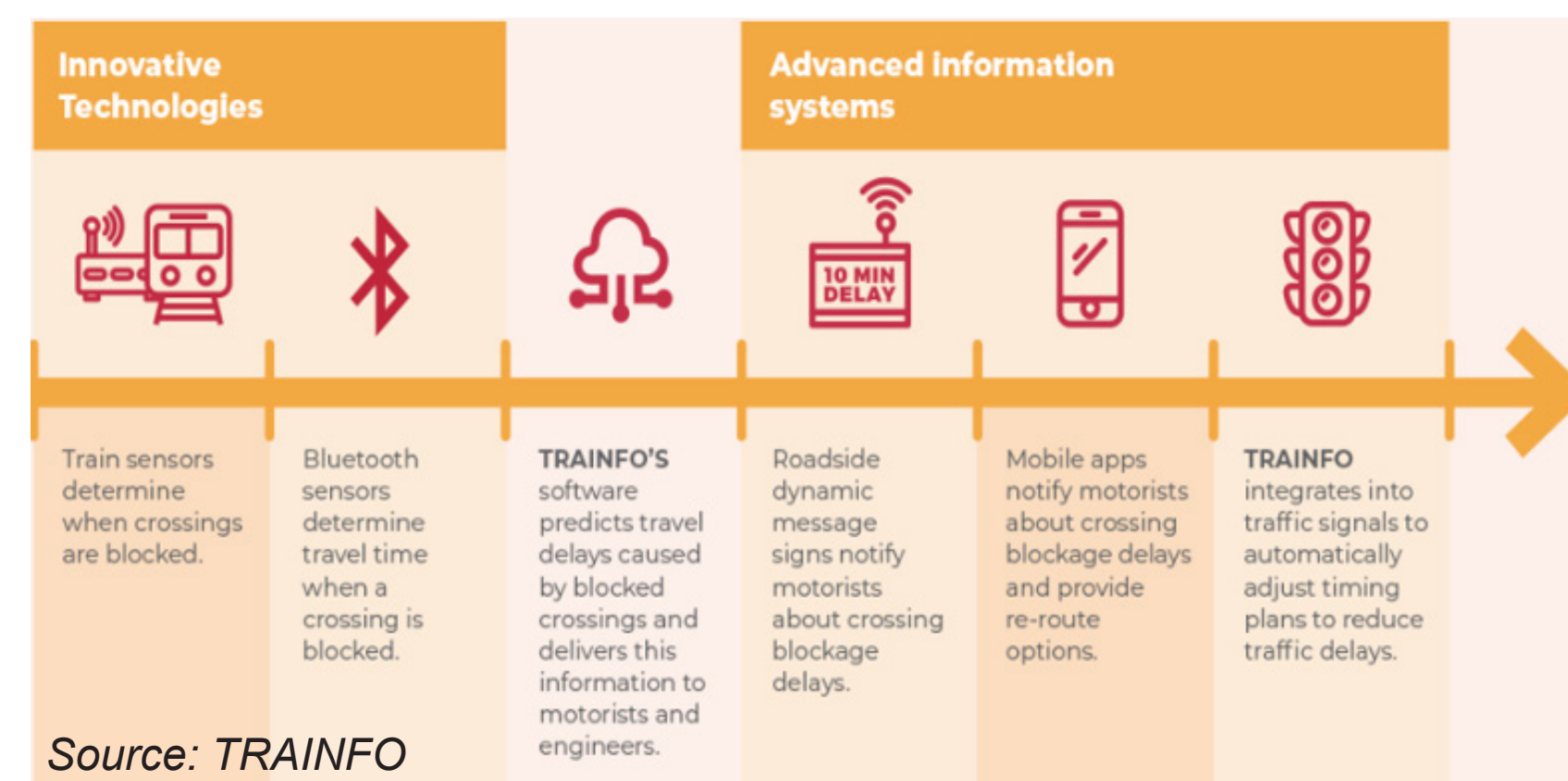
Right-In/Right-Out Access



Technology Solutions:



Innovative technology can help drivers understand when train blockages are occurring and can direct drivers to other routes using Dynamic Message Signs (DMS) to avoid lengthy train-related delays.



Summary of Alternatives:

Alternative	Category	Category Rank	Overall Rank
EF+R: Railroad Realignment with Existing Footprint Improvement Plan	Vehicular and Truck Operations and Safety	3	1
	Rail Conflicts and Delay	1	
	Multimodal Facilities and Safety	3	
	Property and Environmental Impacts	1	
	Cost	3	
EF: Existing Footprint Improvement Plan	Vehicular and Truck Operations and Safety	3	2
	Rail Conflicts and Delay	5	
	Multimodal Facilities and Safety	3	
	Property and Environmental Impacts	1	
	Cost	1	
GS-1: Grade Separation of US 81/Washington Street and Mill Spur	Vehicular and Truck Operations and Safety	2	3
	Rail Conflicts and Delay	1	
	Multimodal Facilities and Safety	1	
	Property and Environmental Impacts	6	
	Cost	6	
GS-2: Grade Separation of US 81/Washington Street, Mill Spur, and Mill Road/5th Street	Vehicular and Truck Operations and Safety	1	4
	Rail Conflicts and Delay	1	
	Multimodal Facilities and Safety	1	
	Property and Environmental Impacts	7	
	Cost	7	
SM+R: Railroad Realignment with Skewed Movement Rerouting Improvement Plan	Vehicular and Truck Operations and Safety	5	5
	Rail Conflicts and Delay	1	
	Multimodal Facilities and Safety	5	
	Property and Environmental Impacts	4	
	Cost	5	
NRC: New Roadway Connection Improvement Plan	Vehicular and Truck Operations and Safety	7	6
	Rail Conflicts and Delay	5	
	Multimodal Facilities and Safety	5	
	Property and Environmental Impacts	3	
	Cost	2	
SM: Skewed Movement Rerouting Improvement Plan	Vehicular and Truck Operations and Safety	5	7
	Rail Conflicts and Delay	5	
	Multimodal Facilities and Safety	5	
	Property and Environmental Impacts	4	
	Cost	4	

Alternatives were ranked based on their overall performance and performance across several criteria, such as traffic flow improvements, safety improvements, and project cost.