

Welcome

Memorial Highway Improvements

Public Input Meeting

September 24, 2019



NORTH
Dakota | Transportation
Be Legendary.™



**MEMORIAL
HIGHWAY**
IMPROVEMENTS

Project Overview



ADD SIDEWALKS
OR TRAILS



IMPROVE TRAFFIC
FLOW AND
INTERSECTION
SAFETY



IMPROVE
DRAINAGE



PROVIDE SAFE
ACCESS TO
BUSINESSES



ADDRESS
PAVEMENT AT THE
END OF USEFUL
LIFE



BEGIN PROJECT

MEMORIAL HIGHWAY

END PROJECT

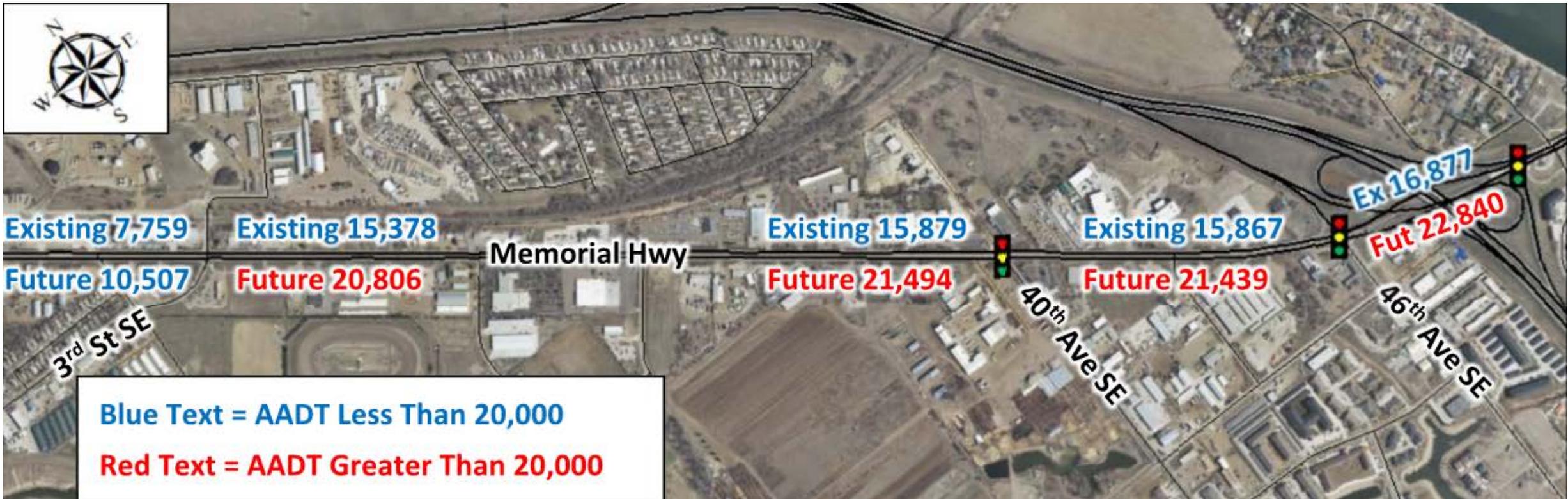
Existing Conditions

Existing Conditions: Roadway

- Failing Subgrade
- Drainage
- Bike and Ped



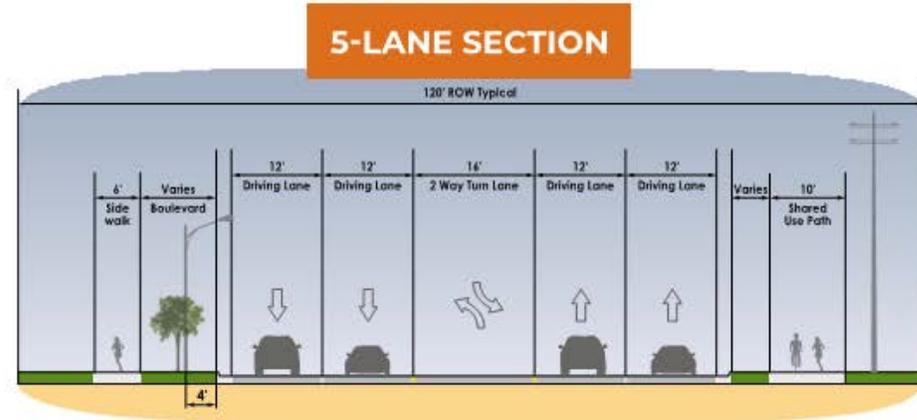
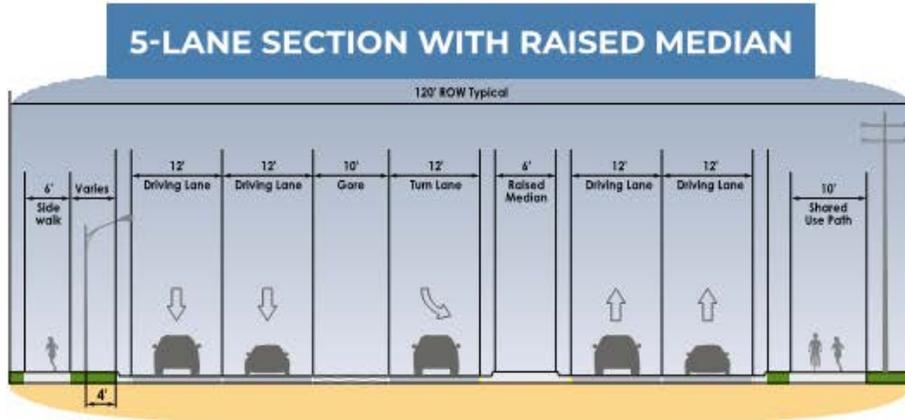
Existing Conditions: Traffic Operations/Access Management



- 112 Existing Access Points

Proposed Improvements

Typical Section

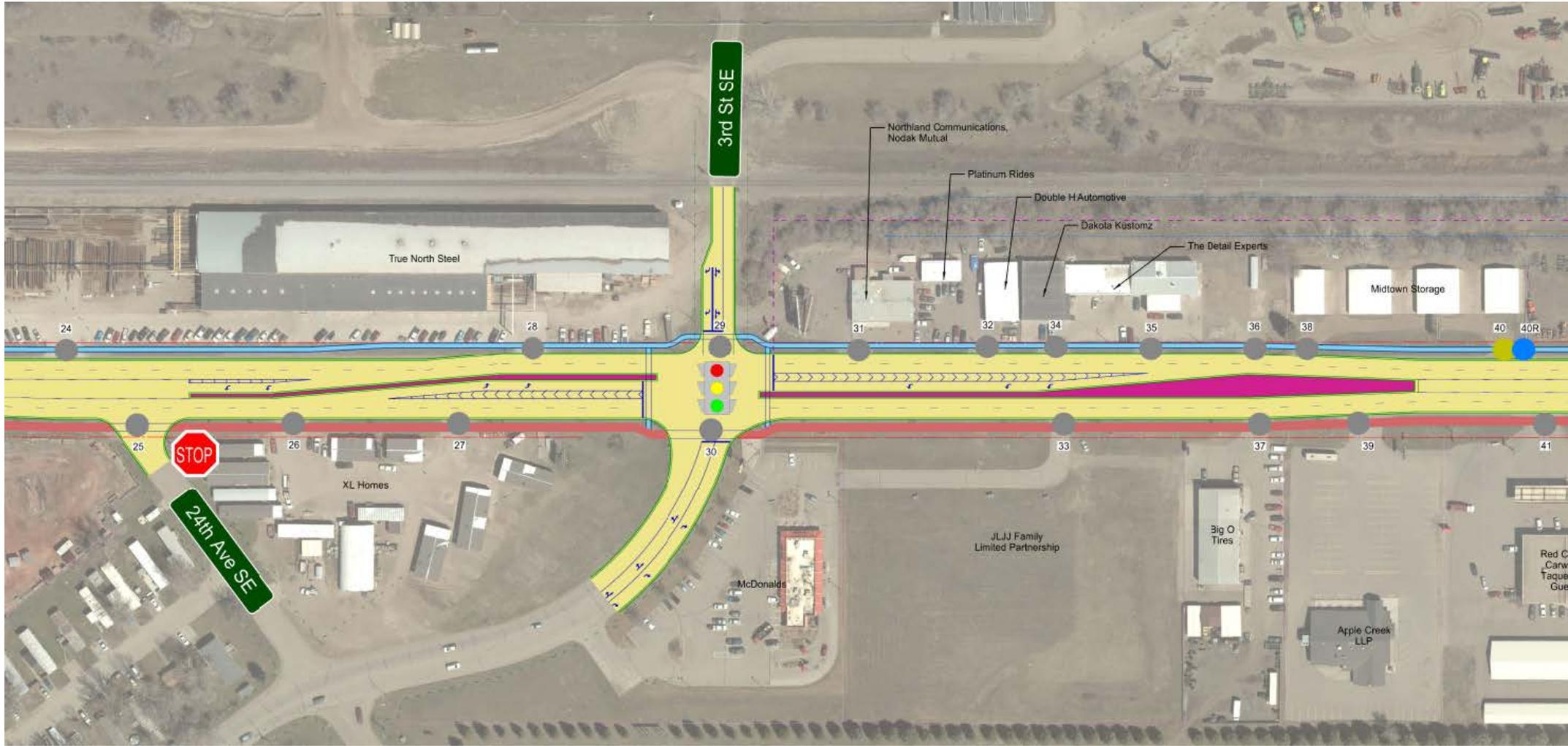


MEMORIAL HIGHWAY LOCATIONS:



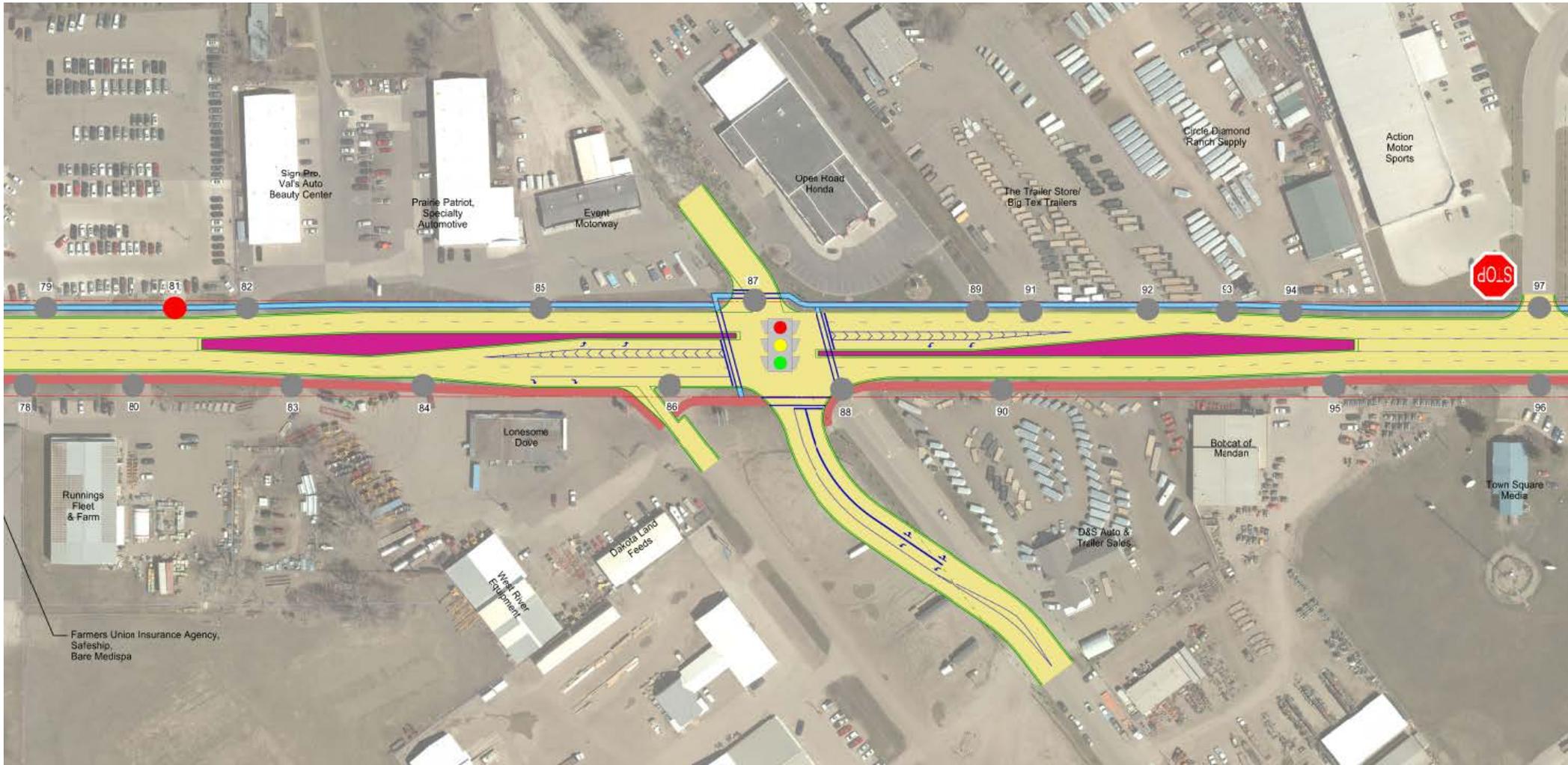
Intersection Improvements

3rd Street:



Intersection Improvements

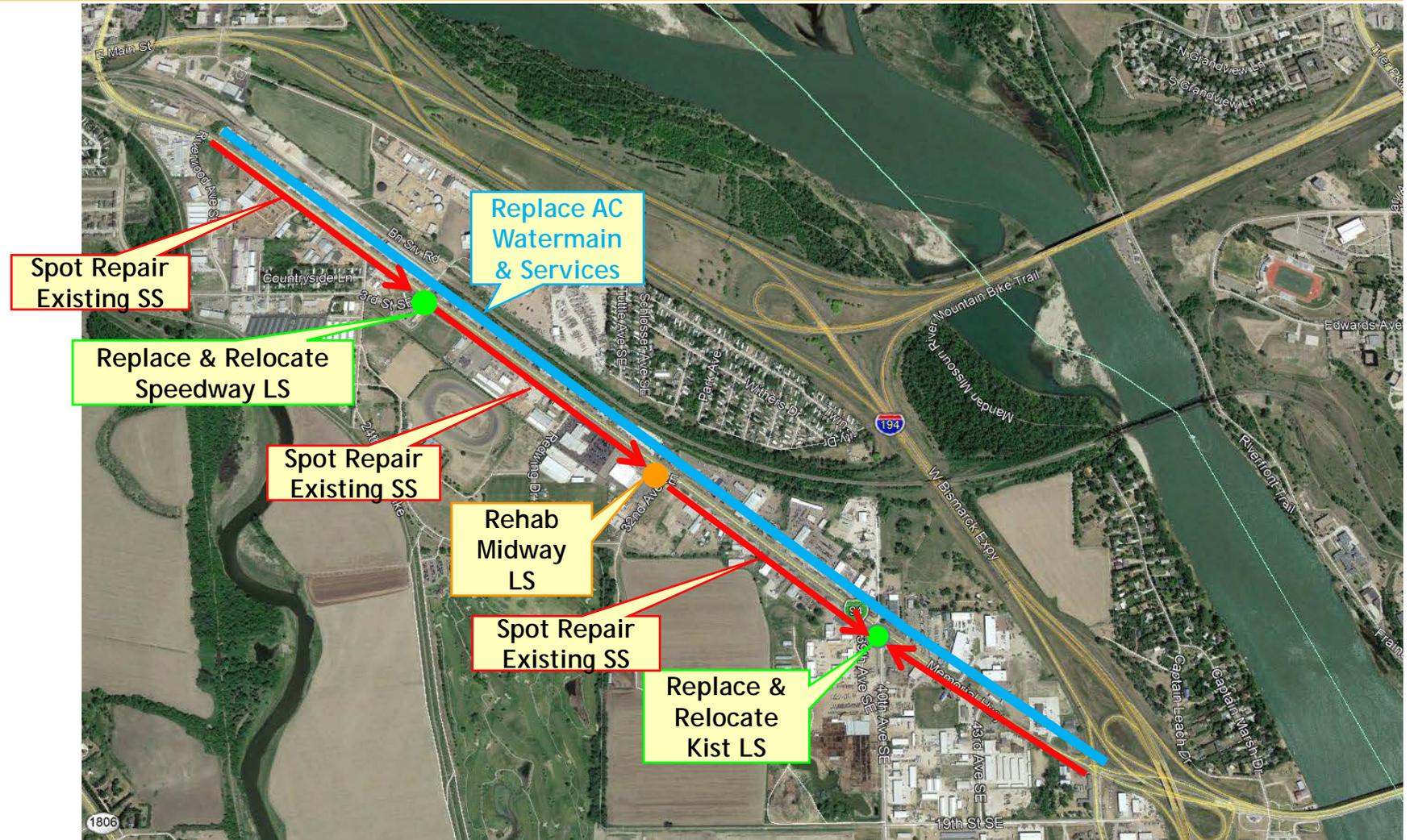
40th Avenue:



City Utilities

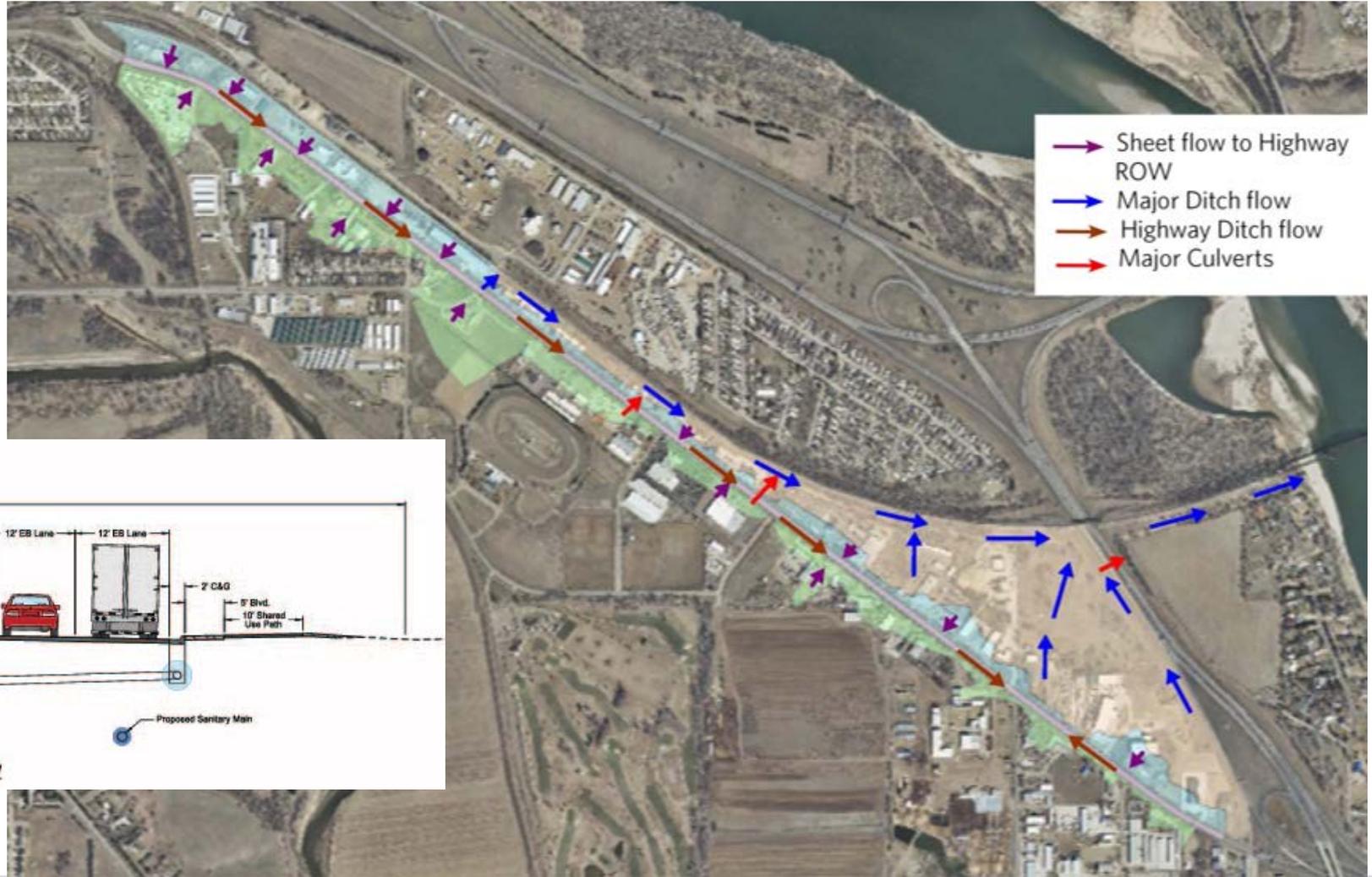
Proposed Improvements:

- Full Water Replacement
- Limited Sanitary Replacement
- Rehab or Replace Lift Stations



Drainage

Existing Drainage Constraints



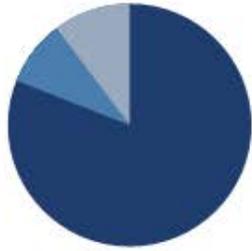
Environmental Documentation

Documented Categorical Exclusion (DCE)

- Aquatic Resources Delineation
- Architectural
- Section 4(f)
- Levee/Stopwall



Funding



Project Cost Share:

- Federal Cost Share: 80.93%
- State Cost Share: 9.07%
- Local Cost Share: 10%



Additional
City of Mandan
Utilities Upgrade Cost

COST SHARE BREAKDOWN:



FEDERAL COST SHARE



STATE COST SHARE



LOCAL COST SHARE

Roadway & Storm



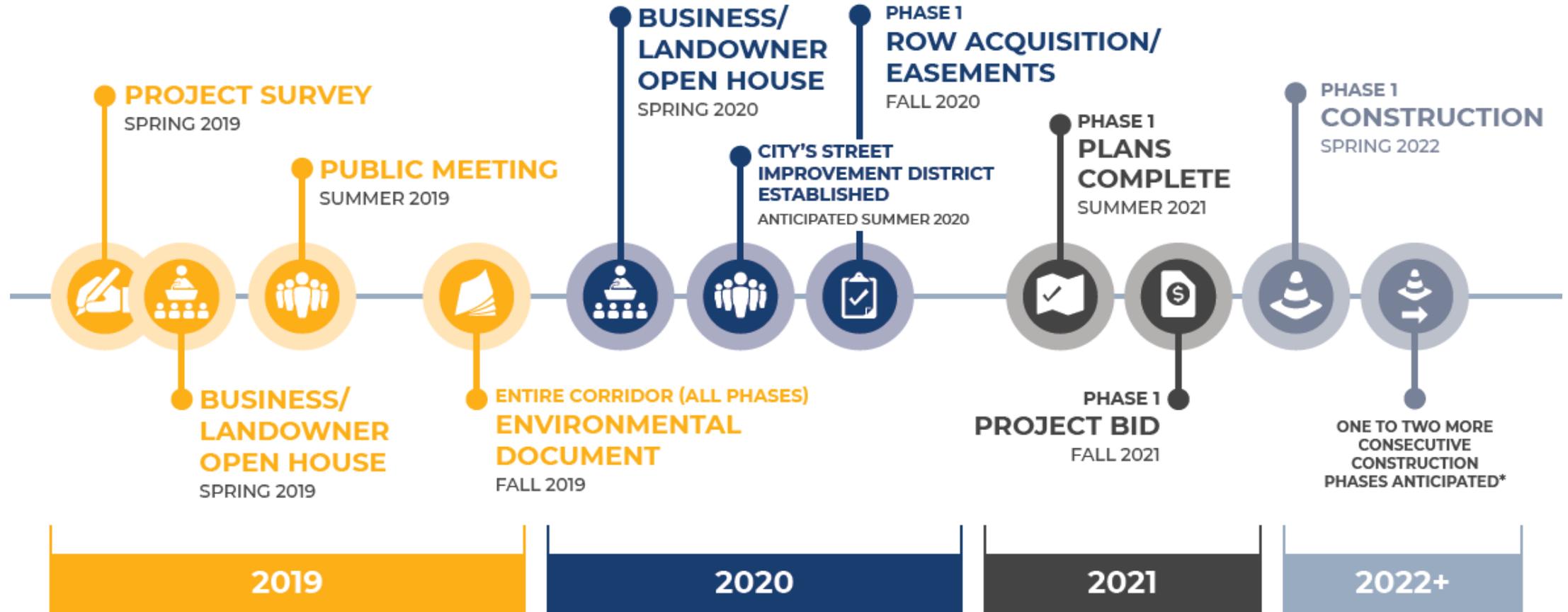
Potential Utility Upgrades

Expected Project Costs

ADDITIONAL CITY
UTILITY COST

Water & Sanitary Sewer

Project Schedule



*Project phasing and sequencing will be determined during the preliminary engineering phase

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