
Technical Advisory Committee

Monday, August 10, 2020

Regular Session

Item H2

LRTP Update

**Future Development Growth and Traffic Conditions*

**Project List Overview*

**Project Prioritization Overview*

Staff Contact: Andres Gomez, MPO Program Manager

L RTP Update

GIAMPO TAC

August 10, 2020



Agenda

- Future Projections:
 - Land Use Growth, 2020-2045
 - 2045 Traffic Conditions
- LRTP Project List
- Project Prioritization Overview
- Next Steps

Online Alternatives and Strategies Meeting

Meeting Objective	<i>Collect Public Input on Ideas for Roadway, Bicycle & Pedestrian, and Public Transit Projects and Strategies</i>
Meeting Dates	<i>June 1 through June 17, 2020</i>
Meeting Attendees	256
Meeting Comments	509

MPO Area Land Use Growth

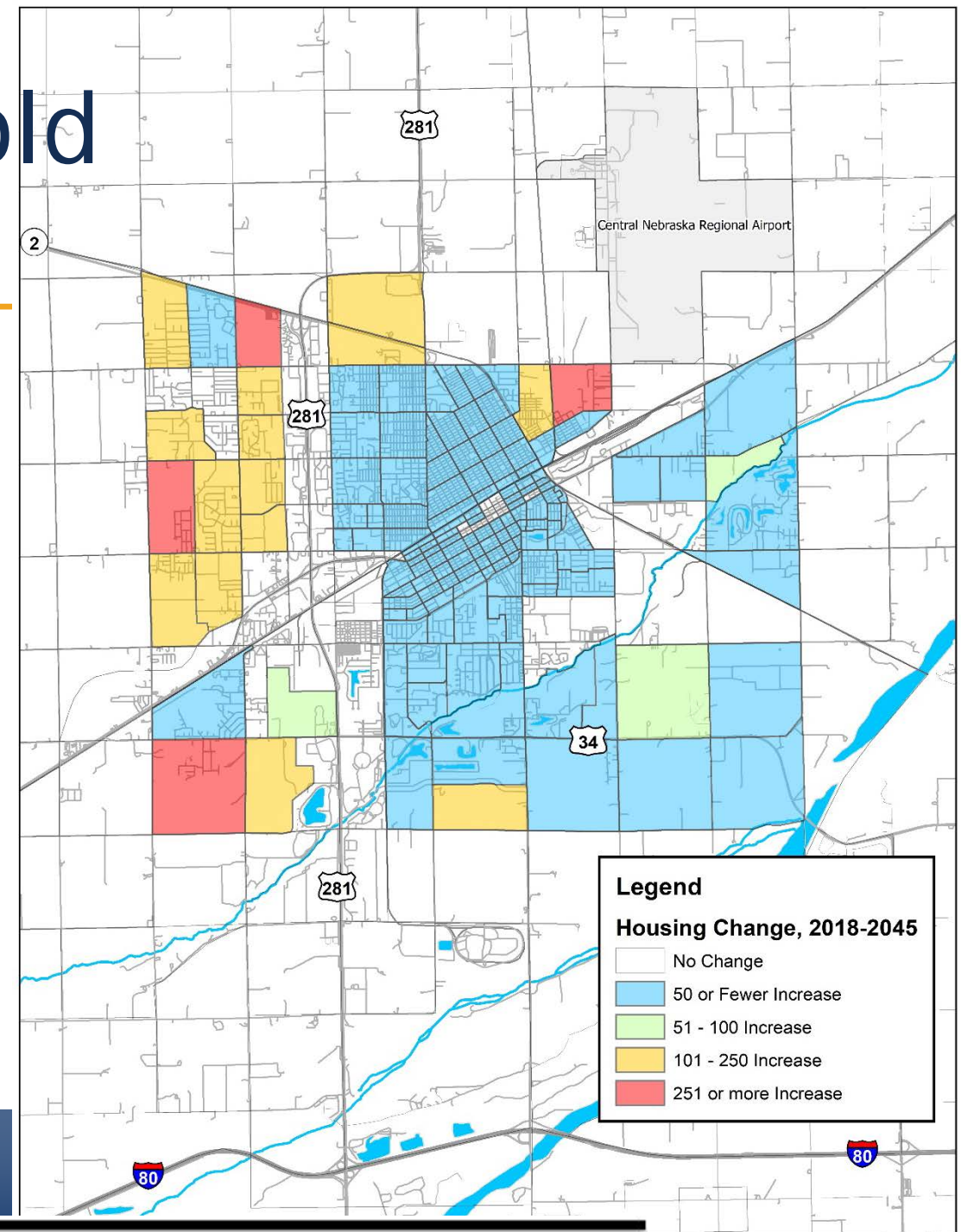
- Reviewed a Combination of Data Sources:
 - Historical Population Trends
 - Woods and Poole Economics Forecasts

MPO-Area Socio-Economic Projections

	2017	2045	Change
Population	58,756	72,772	+24%
Households	21,769	26,588	+22%
Employment	32,590	41,715	+28%
Retail	4,801	4,829	+1%
Services	14,752	21,562	+46%
Basic	12,011	14,050	+17%
Govt	1,026	1,274	+24%
Avg Household Size	2.70	2.74	
Population to Jobs Ratio	1.80	1.74	

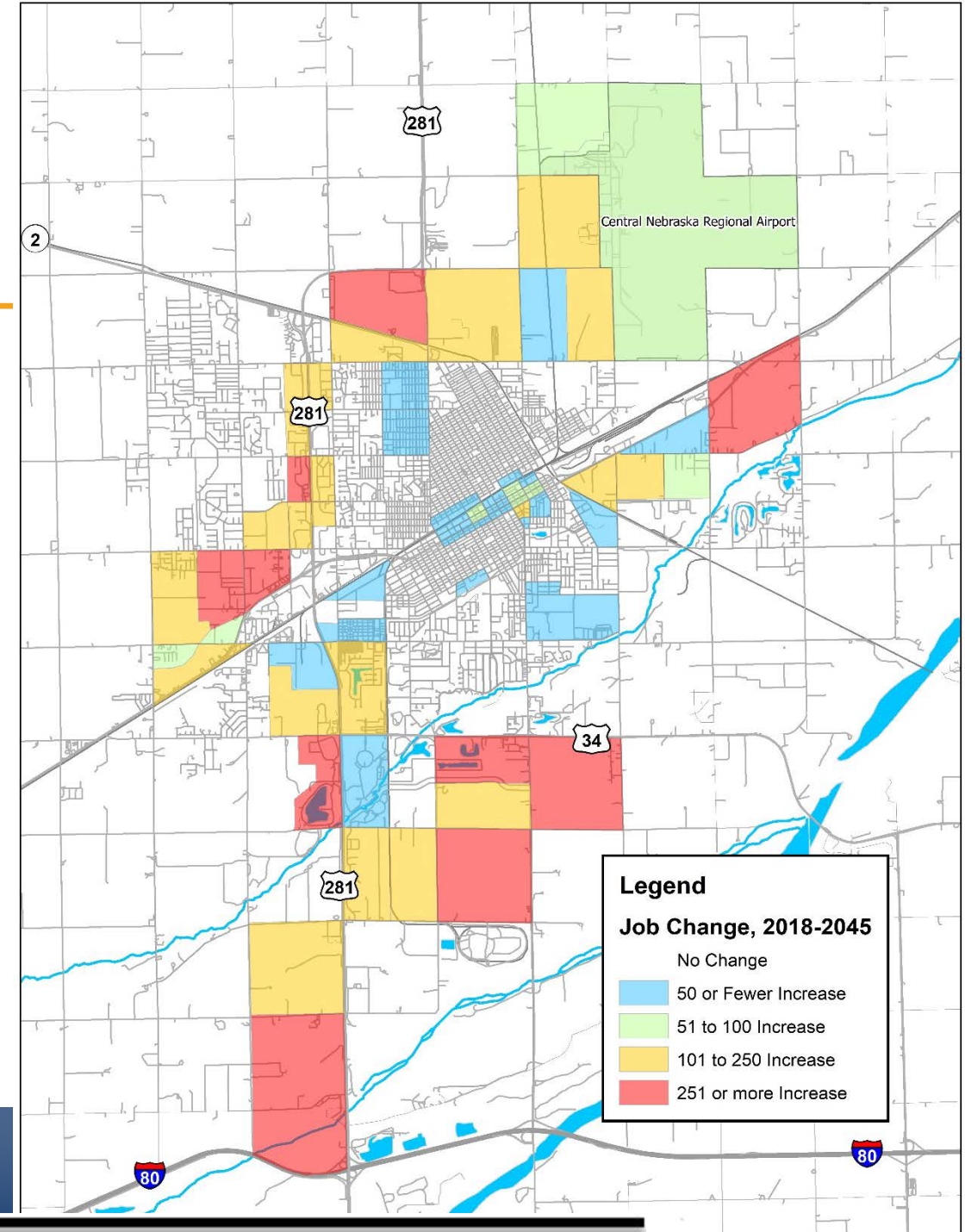
Anticipated Household Growth

- Worked with Planning / Engineering Staff for Allocation of Future Housing and Jobs



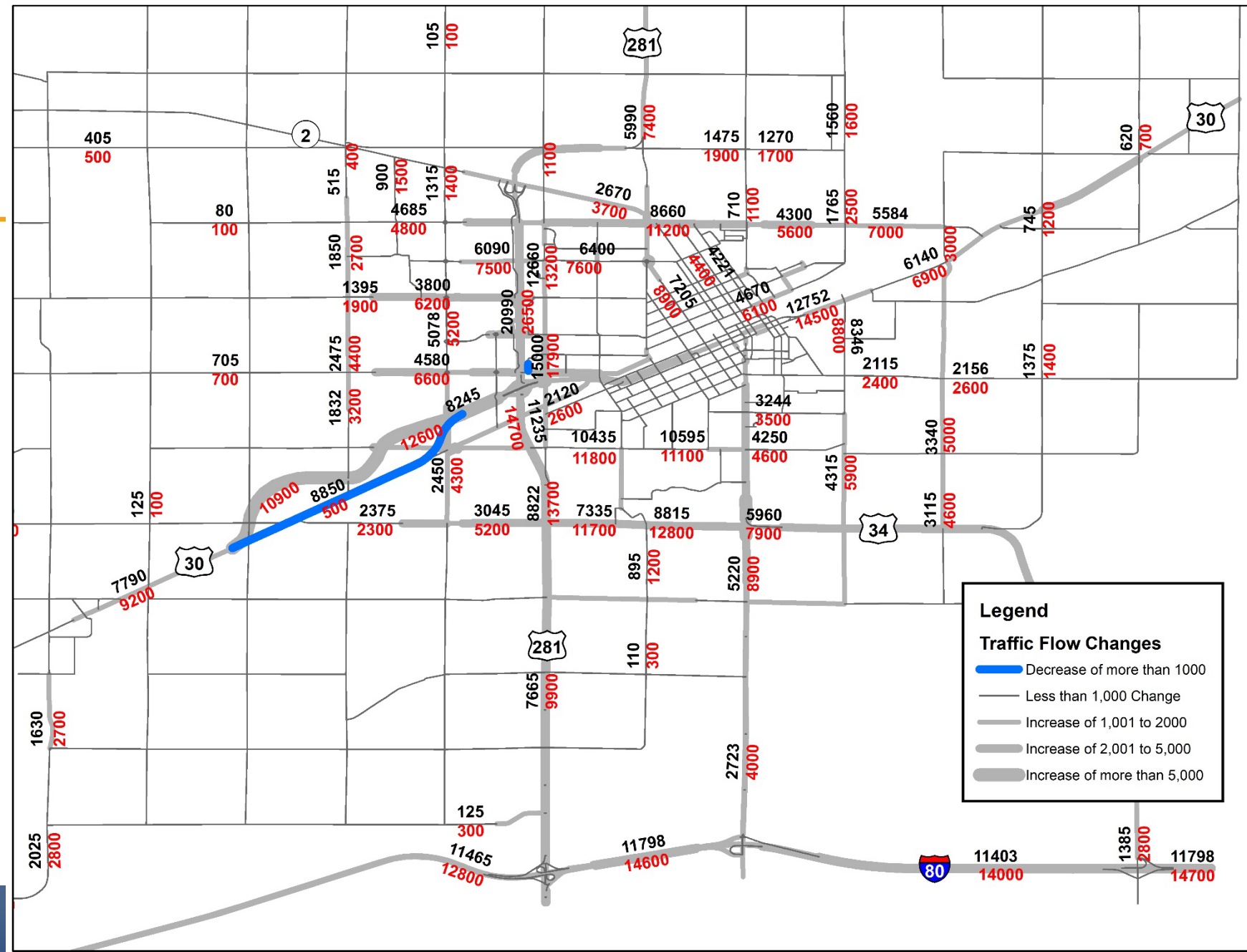
Anticipated Job Growth

- Worked with Planning / Engineering Staff for Allocation of Future Housing and Jobs



2045 Traffic Forecasts

- Baseline “Existing-plus-Committed” Roadway Network
- Future Operational Issues:
 - US 281 corridor between US 34 and Faidley (LOS D/E)
 - Capital Ave Broadwell to St Paul Rd (LOS D/E)
 - Broadwell Faidley to 3rd (LOS D)
 - Anna St between Broadwell and Adams (LOS D)



Project List Sources



**Future Traffic Operations
Results**



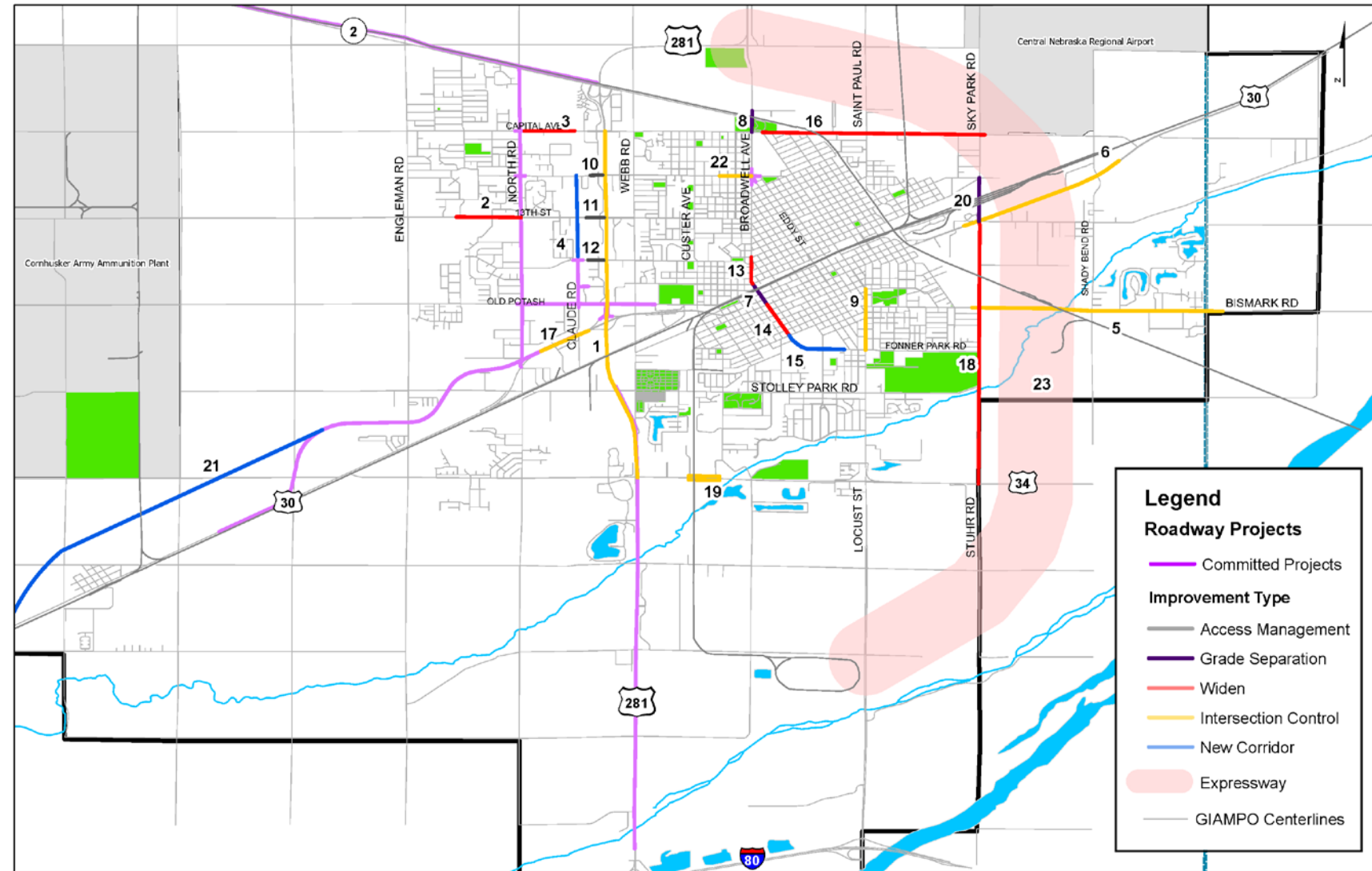
**Other Studies and 2040
LRTP**



**Online Public Meeting:
Project Ideas**

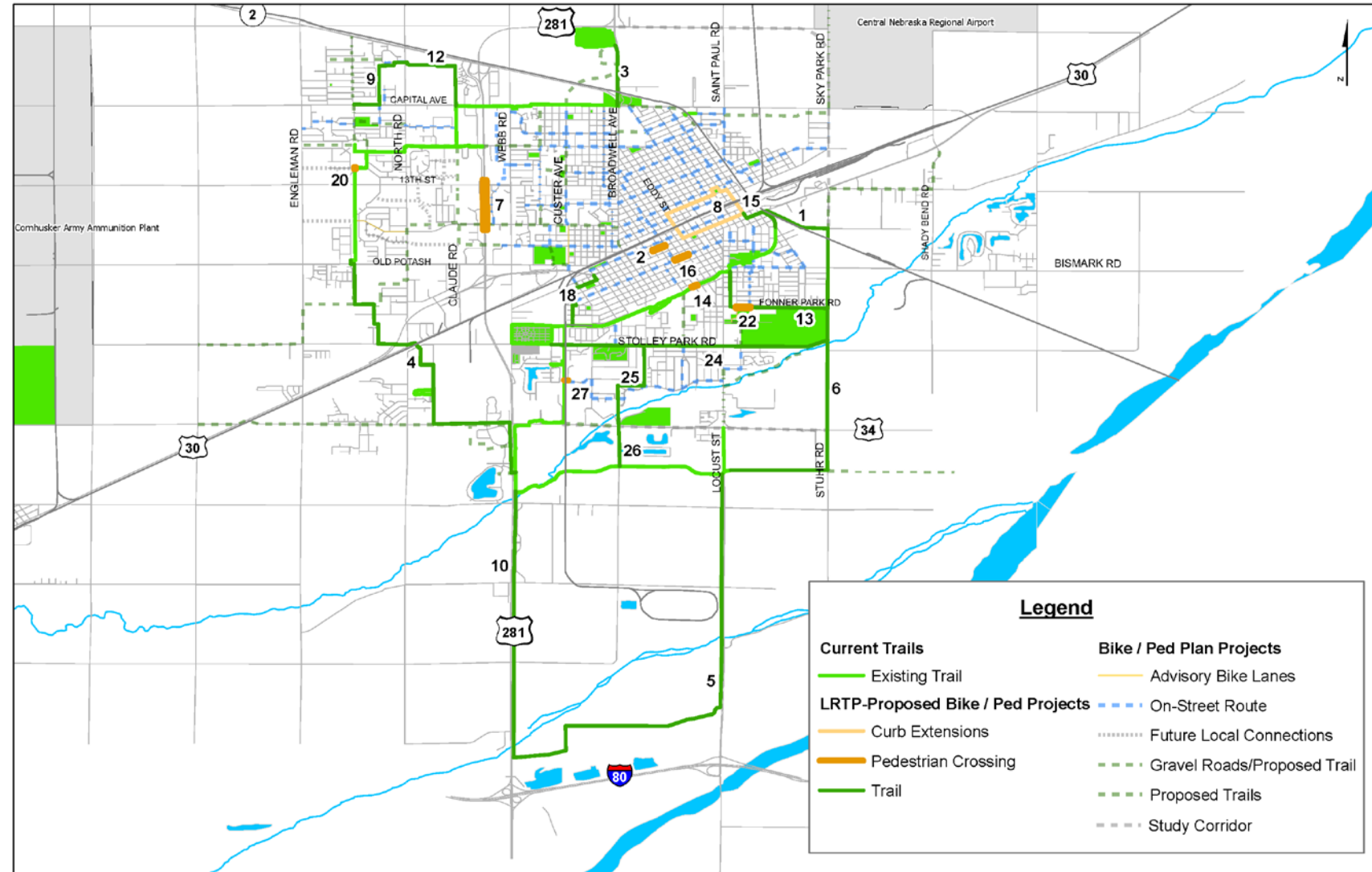
Preliminary Roadway Project List

- Details in Packet



Preliminary Bike & Pedestrian Project List

- Details in Packet



Preliminary Transit Projects




- New Transit Operations Building
- Consideration of Flex Route System
- Continue Replacement and Maintenance of Rolling Stock

Performance-Based Plan: Project Prioritization








Goals and Objectives

Goal Area		Objectives
	System Safety	<ul style="list-style-type: none">• Reduce the incidence and rate of crashes• Reduce severe injury and fatal crashes• Reduce bicycle and pedestrian crashes• Maintain safety on transit vehicles
	Multi-modal Connectivity and Accessibility	<ul style="list-style-type: none">• Provide improved connections to key destinations across the community• Reduce regional freight impediments• Increase the connectivity of the bicycle and pedestrian system• Continue to provide quality public transit services
	Economic Vitality	<ul style="list-style-type: none">• Identify transportation strategies that support economic development projects• Identify transportation strategies that provide enhanced access to jobs for low income residents• Provide active transportation options that promote the health and well-being of residents• Provide access to tourist destinations• Identify how transportation can support affordable housing• Promote freight connectivity and access

Goals and Objectives

Goal Area		Objectives
	System Preservation	<ul style="list-style-type: none"> Identify sufficient financial resources to maintain all Federal-Aid streets and bridges in fair or good condition
	Environment and System Resiliency	<ul style="list-style-type: none"> Promotes energy conservation, especially for non-renewable energy sources Transportation projects should limit impacts to the natural and build environment Invest in alternative and renewable fuel infrastructure when practical Identify strategies to make transportation infrastructure more resilient to natural and manmade events
	Traffic Operations and System Reliability	<ul style="list-style-type: none"> Limit the emergence of recurring congestion Improve travel reliability on arterial roadways Support high-levels of freight reliability on the state highway system Promote development outside of flood prone areas

Next Steps

- Prioritize Projects
- Develop Fiscally-Constrained Project List
- Draft Plan

2045 LRTP Schedule



Thank You!

Questions?

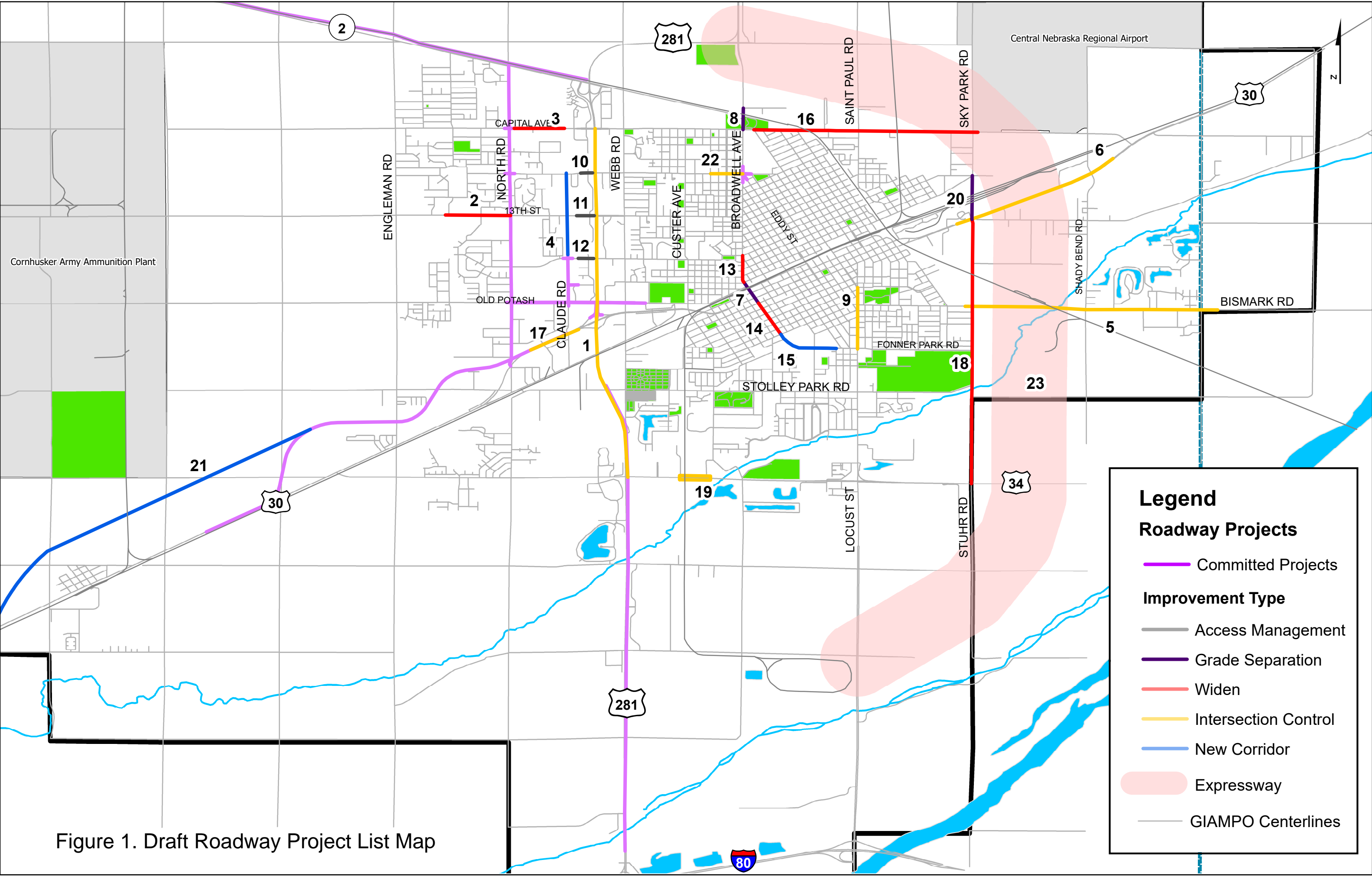


Figure 1. Draft Roadway Project List Map

Table 1. Revised Roadway Project List, 2045 LRTP (07.24.2020)

Project Id	Improvement Type	Improvement Description
1	Intersection Control	Intersection geometric improvements, long term communications and signal upgrades. Include advanced warning for rural intersections for northbound traffic.
2	Widen	3-lane Urban Section on 13th St from Independence Ave to North Ave. Roundabout at the intersection of Independence and 13th St.
3	Widen	3-lane Urban section on Capital Ave between North Ave and Creek.
4	New Corridor	Claude Avenue Extension, Faidley to State.
5	Intersection Control	Roundabouts or other intersection improvements. Lower volumes. Discuss with Hall County. Potential Vision Project.
6	Intersection Control	Advanced warning for rural intersections - consistent between Stuhr and Shady Bend intersections. Discuss with NDOT.
7	Grade Separation	Broadwell / UPRR grade separation. Might be plans in the works with BNSF.
8	Grade Separation	Broadwell / BNSF grade separation and adjacent intersection improvements.
9	Intersection Control	Reconstruct Locust with improved access management, potential signal communications and cabinet upgrades.
10	Access Management	Medians for access control at Diers and Driveways. Coordinate with Claude Ave Extension, provide roundabout at Claude / State.
11	Access Management	Medians for access control at Diers and Driveways. Coordinate with Claude Ave Extension, provide roundabout at Claude / 13th.
12	Access Management	Medians for access control at Diers and Driveways. Coordinate with Claude Ave Extension, provide roundabout at Claude / Faidley.
13	Widen	4-lane divided section between Faidley and grade separation project. Alternative improvements would be access control through this section.
14	Widen	Restripe / remove on-street parking for 3-Lane section between grade separation project and Anna.
15	New Corridor	Broadwell Avenue extension between Anna and Adams. Widen Fonner Park Rd between Adams and Sylvan.
16	Widen	3-Lane Urban Section between Broadwell and Sky Park. Higher priority phase is Broadwell to St Paul.
17	Intersection Control	EB Advanced warning for rural intersections - approaching Claude and US 281. Discuss with NDOT.
18	Widen	3-Lane Urban Section. Likely not needed if East Bypass is implemented.
19	Intersection Control	Intersection improvements (left turn lanes) at Hwy 34 / Wortmann (College entrance). Re-evaluate need if East Bypass is implemented.
20	Grade Separation	Stuhr Road / Sky Park grade separation from UPRR. Not needed if East Bypass is implemented.
21	New Corridor	US 30 Bypass of Alda, consistent with Alda Comprehensive Plan. Discuss with NDOT.
22	Intersection Control	Intersection improvements or 3-lane section for State St between Broadwell and Lafayette. Potential for school safety.
23	New Expressway	East Bypass - would be an NDOT project. Planning included in Build Nebraska Act.

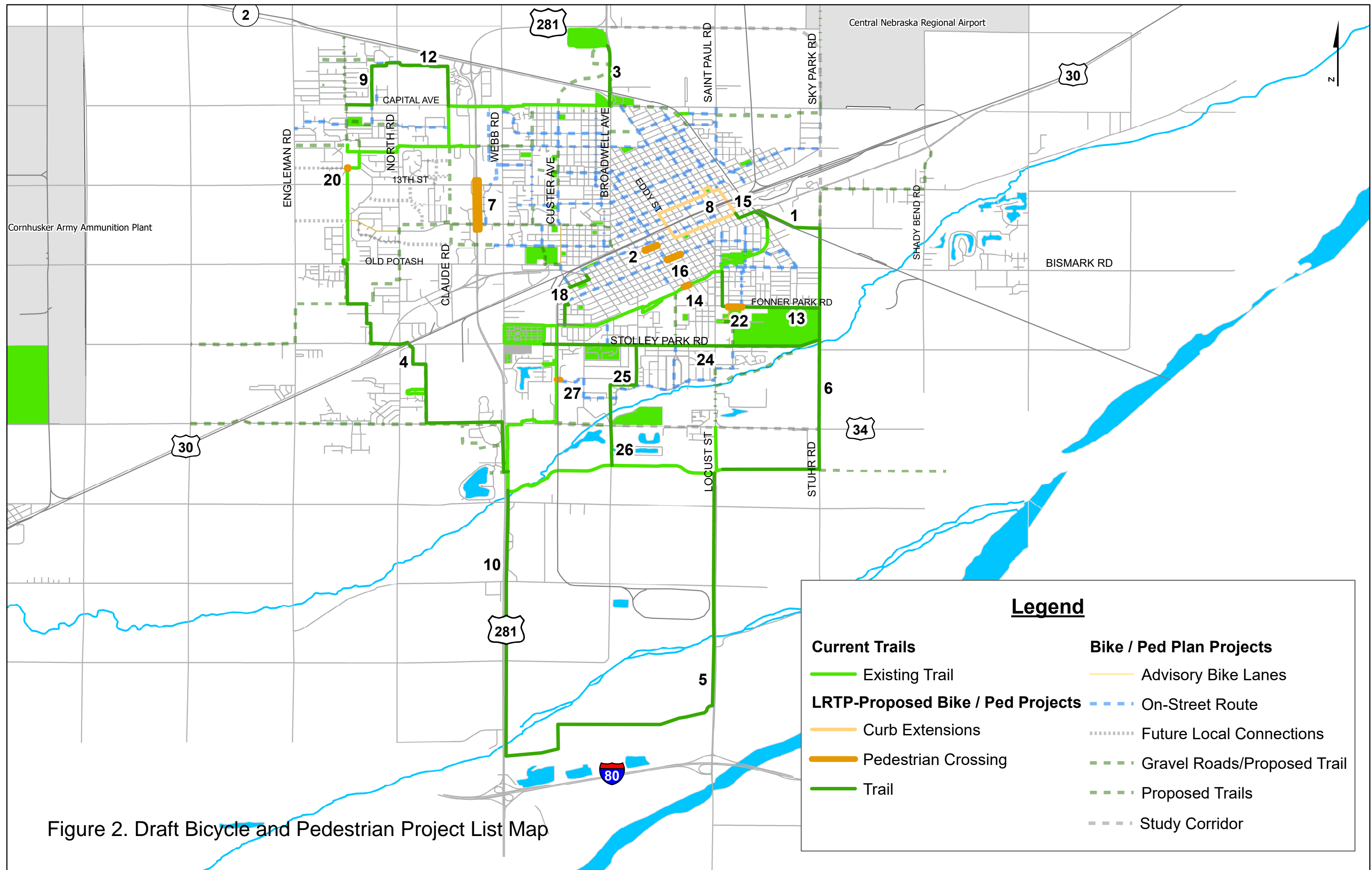


Table 2. Revised Bicycle and Pedestrian Project List, 2045 LRTP (07.29.2020)

Project Id	Improvement Type	Improvement Description
1	Trail	John Brownell Trail to JBS Connection. Potential short-term implementation.
2	Pedestrian Crossing	Consider mid-block crossing improvements at 2nd and Washington, including median, cross-walk and refuge.
3	Trail	Capital Ave Trail to Eagle Scout Park Connection
4	Trail	Connection between Shoemaker Trail and St Joe / Riverway Trail (college, med center, and Stuhr Museum).
5	Trail	Mormon Island Trail
6	Trail	Riverway Trail to Stuhr Rd Connection
7	Pedestrian Crossing	Improve pedestrian crossings as cross-streets are reconstructed.
8	Curb Extensions	Downtown curb extensions with major redevelopment projects
9	Trail	Independence to Northwest High Trail
10	Trail	US 281 South Trail
12	Trail	NW High School to State Street Trail Connection
13	Trail	Fonner Park to Beltline Trail
14	Pedestrian Crossing	Lincoln Ave - John Brownell Trail Crossing Warning Signage
15	Trail	Extend John Brownell Trail into Downtown
16	Pedestrian Crossing	Traffic calming on Koenig near Wasmer School
18	Trail	Augustine Park - Gates School - Buechler Park Trail
20	Pedestrian Crossing	Enhanced Pedestrian Crossing at Trail
22	Pedestrian Crossing	Enhanced pedestrian crossing to water park
24	Trail	Stolley Park Trail
25	Trail	Stolley Park to LE Ray Park Trail
26	Trail	LE Ray to Riverway Trail Connection via Blaine Ave
27	Pedestrian Crossing	Crossing Over Rail Spur and Spillway