



DES MOINES AREA MPO

Transportation Technical Committee Meeting

November 2, 2023



DES MOINES AREA
MPO
METROPOLITAN PLANNING ORGANIZATION

APPROVAL OF AGENDA

November 2, 2023, Agenda

1. Call to Order
2. VOTE: Approval of Agenda
3. VOTE: Approval of Meeting Minutes
4. PRESENTATION: Update on Highway 141 Corridor Study
5. REPORT and VOTE: Calendar Year 2024 Meeting Dates
6. REPORT and VOTE: Decision Making Tree
7. REPORT: Planning Area Boundary Update
8. REPORT: Mobilizing Tomorrow Update
9. REPORT: FFY 2028 Surface Transportation Block Grant Program Schedule
10. REPORT: Water Trails BUILD Grant Update
11. REPORT: Upcoming Events
12. Other Non-Action Items of Interest to the Committee
13. Next Meeting Date – December 7, 2023 – 9:30 a.m.
14. Adjournment

APPROVAL OF MEETING MINUTES

PRESENTATION: UPDATE ON HIGHWAY 141 CORRIDOR STUDY

NOVEMBER 2, 2023

HIGHWAY 141 CORRIDOR STUDY / TOWNER DRIVE INTERCHANGE

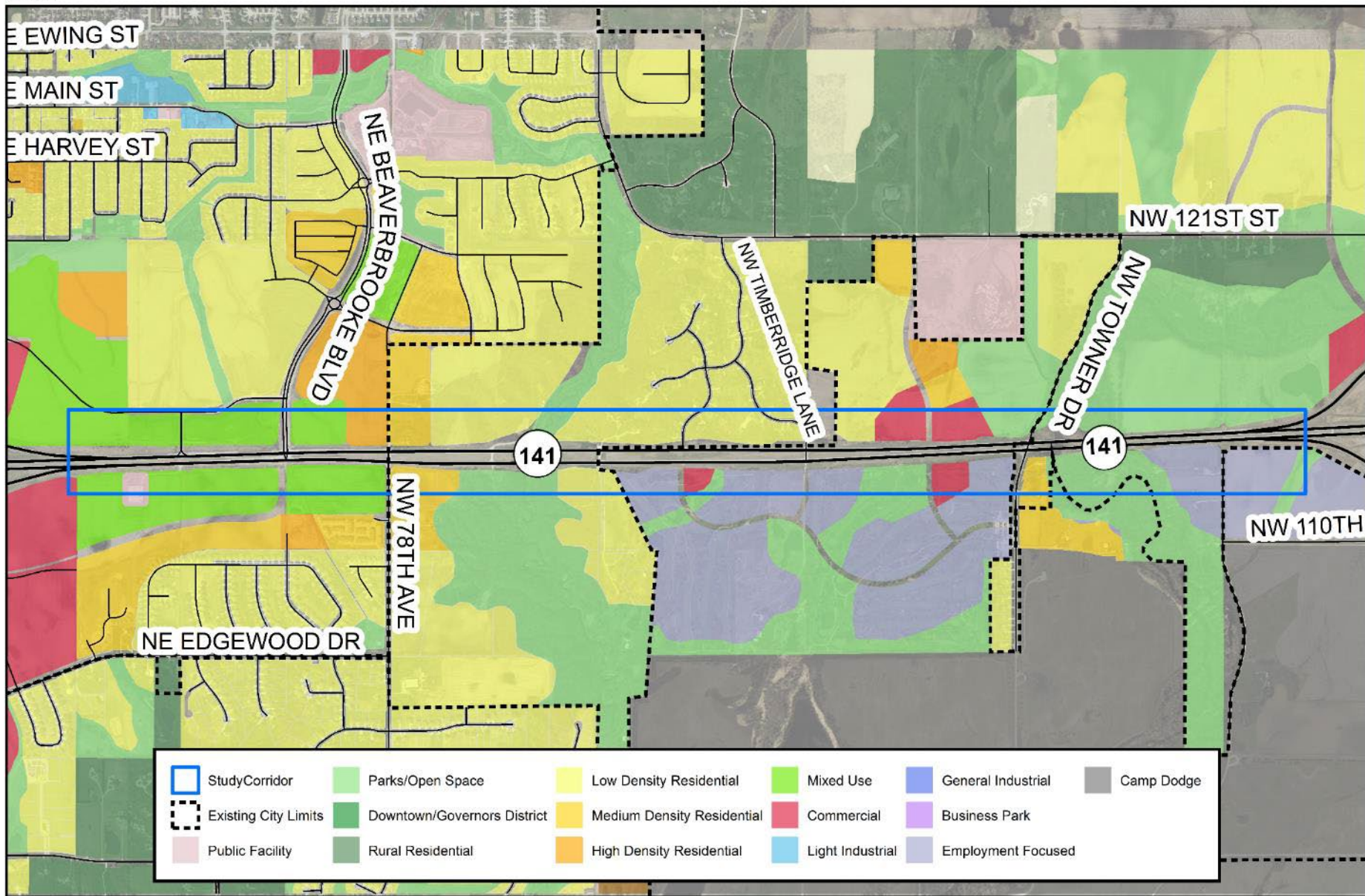
MPO TTC



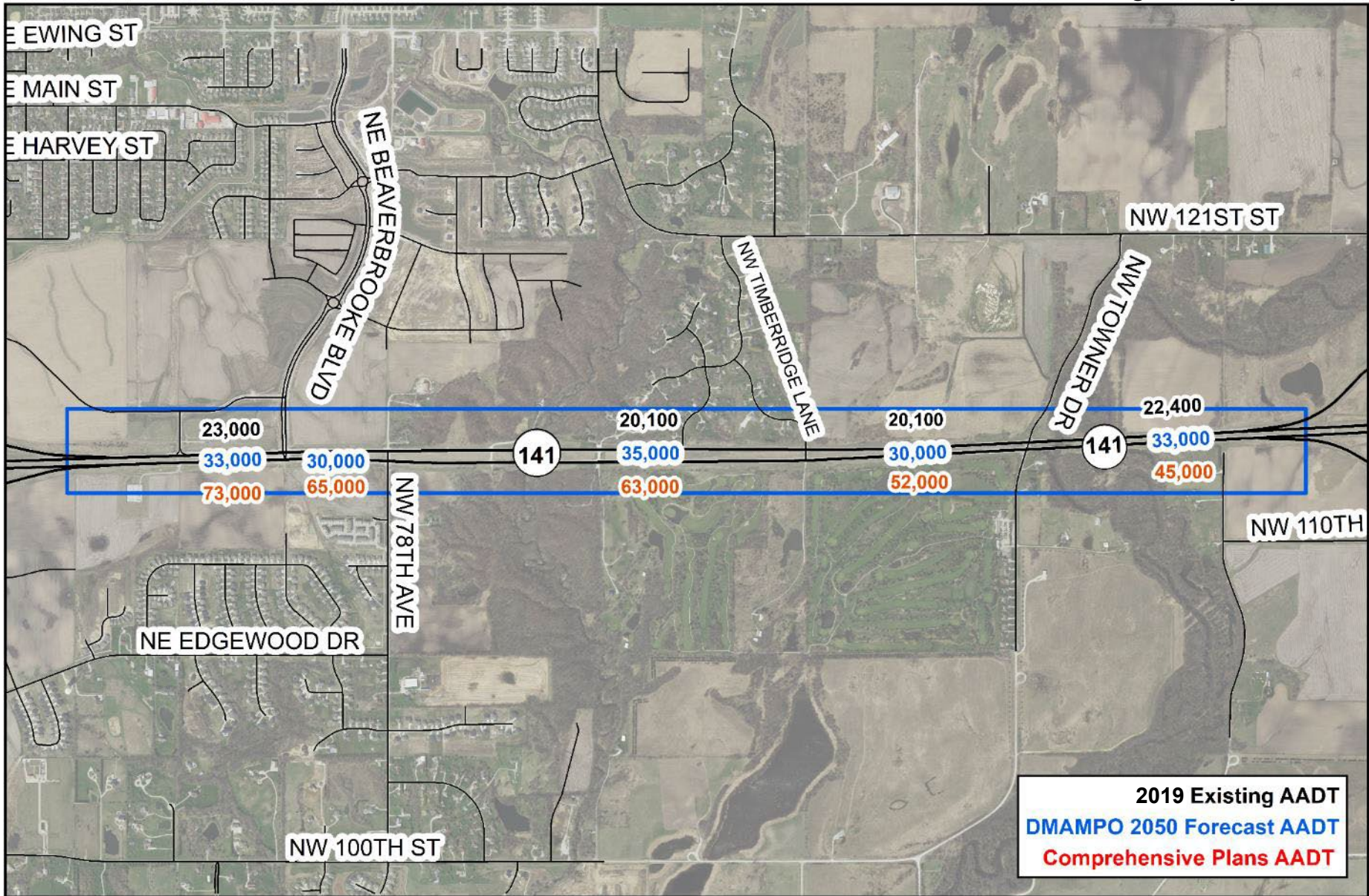
Purpose

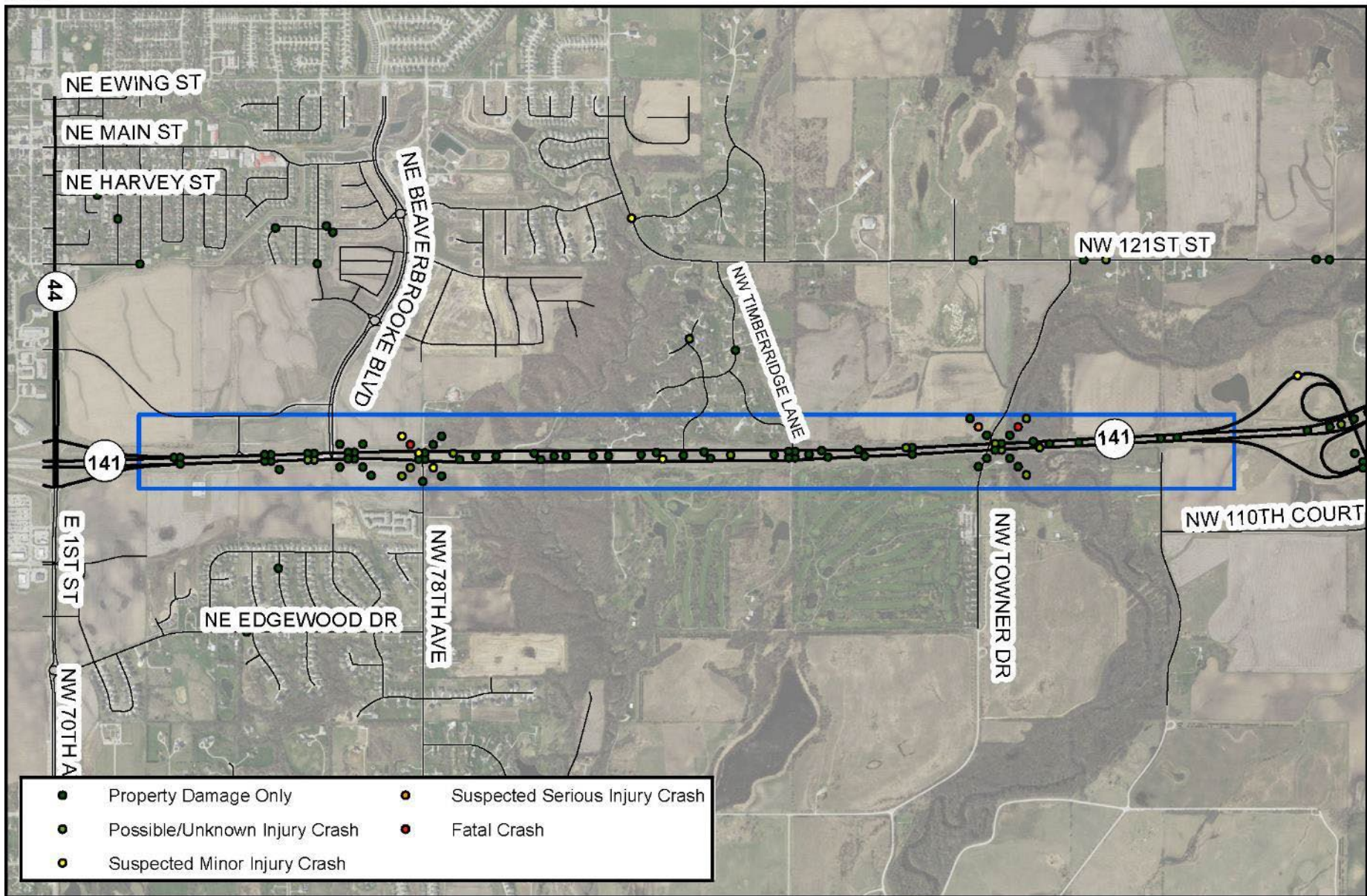
- Analyze access locations & intersections along the IA 141 corridor for short & long term safety performance due to future planned development pressure
- Termini:
 - IA 44 (East 1st ST/NW 70th AVE)
 - IA 415





2019 AADT – Annual Average Daily Traffic





Corridor Plan Recommendations

- Short Term
- Long Term
- Roadway/Intersections
- Access Points
- Based on:
 - ✓ Safety
 - ✓ Land Use Changes
 - ✓ Increases in Traffic
 - ✓ Mobility
 - ✓ Regional Need
- Maintain RIRO's
- Close 2-3 intersections
- Adjacent roadway needs
- New interchange



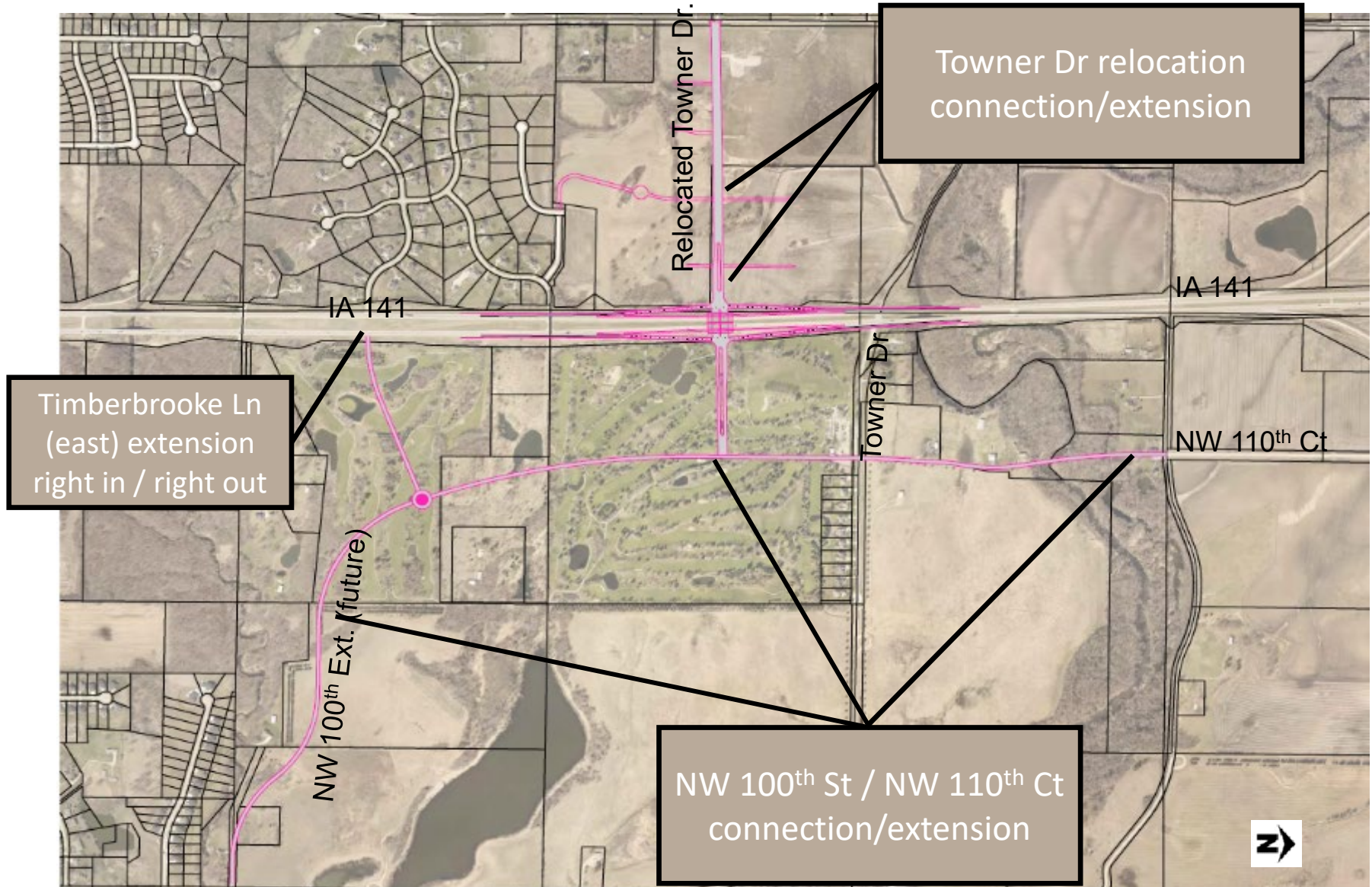
Entire Corridor 11 12

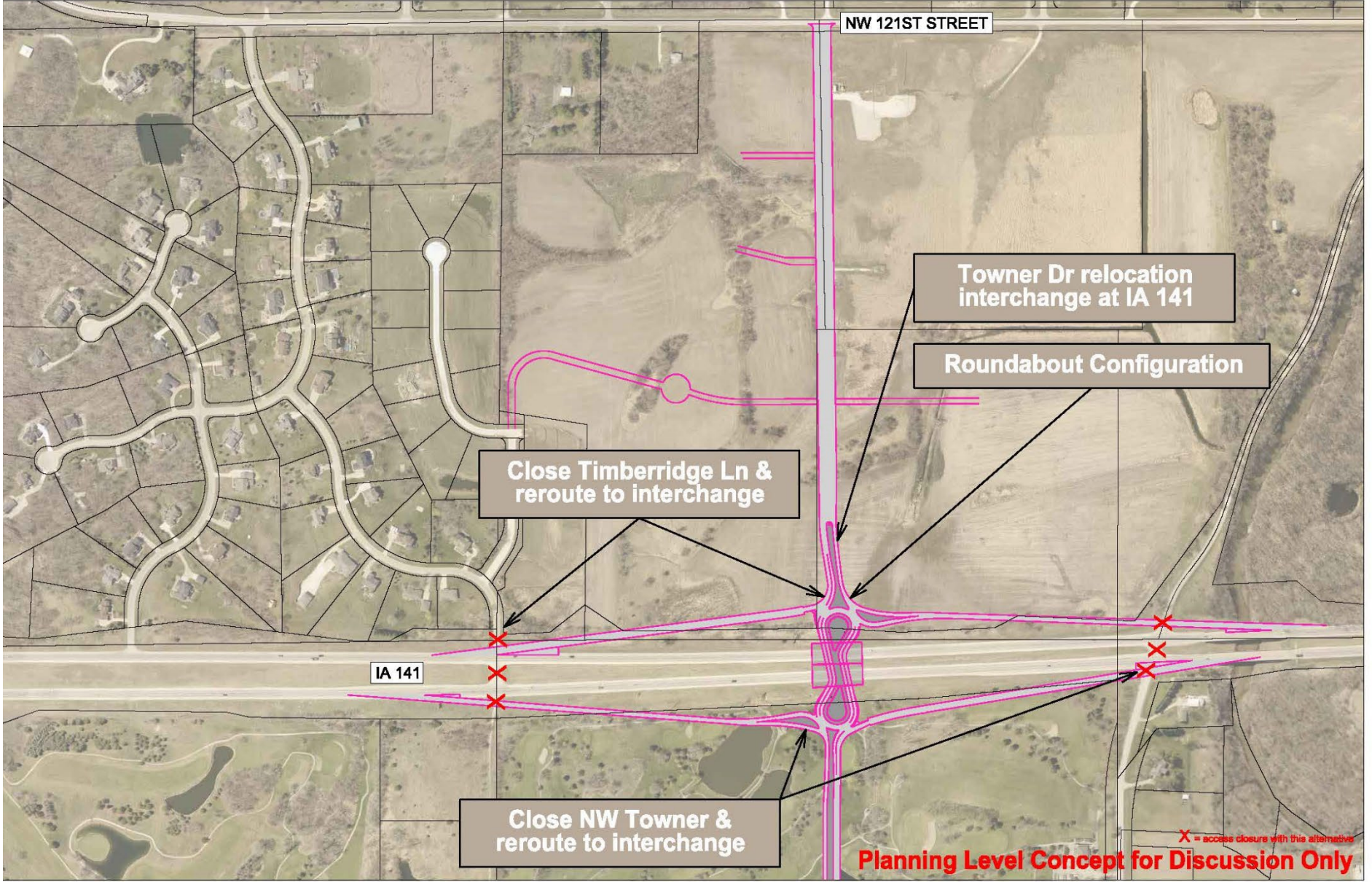
- Additional lanes NB/SB IA 141
 - ✓ 6 total lanes
 - ✓ As traffic demand warrants
 - ✓ Hwy 44 to 415
- Monitor Speed Limits
 - ✓ Crash occurrence
 - ✓ Potential 55 mph limit transition north to Hwy 415 or IA 17
- Safety Performance
 - ✓ Continued monitoring
 - ✓ Corrective measures for reduced conflict



Adjacent Roadway Network

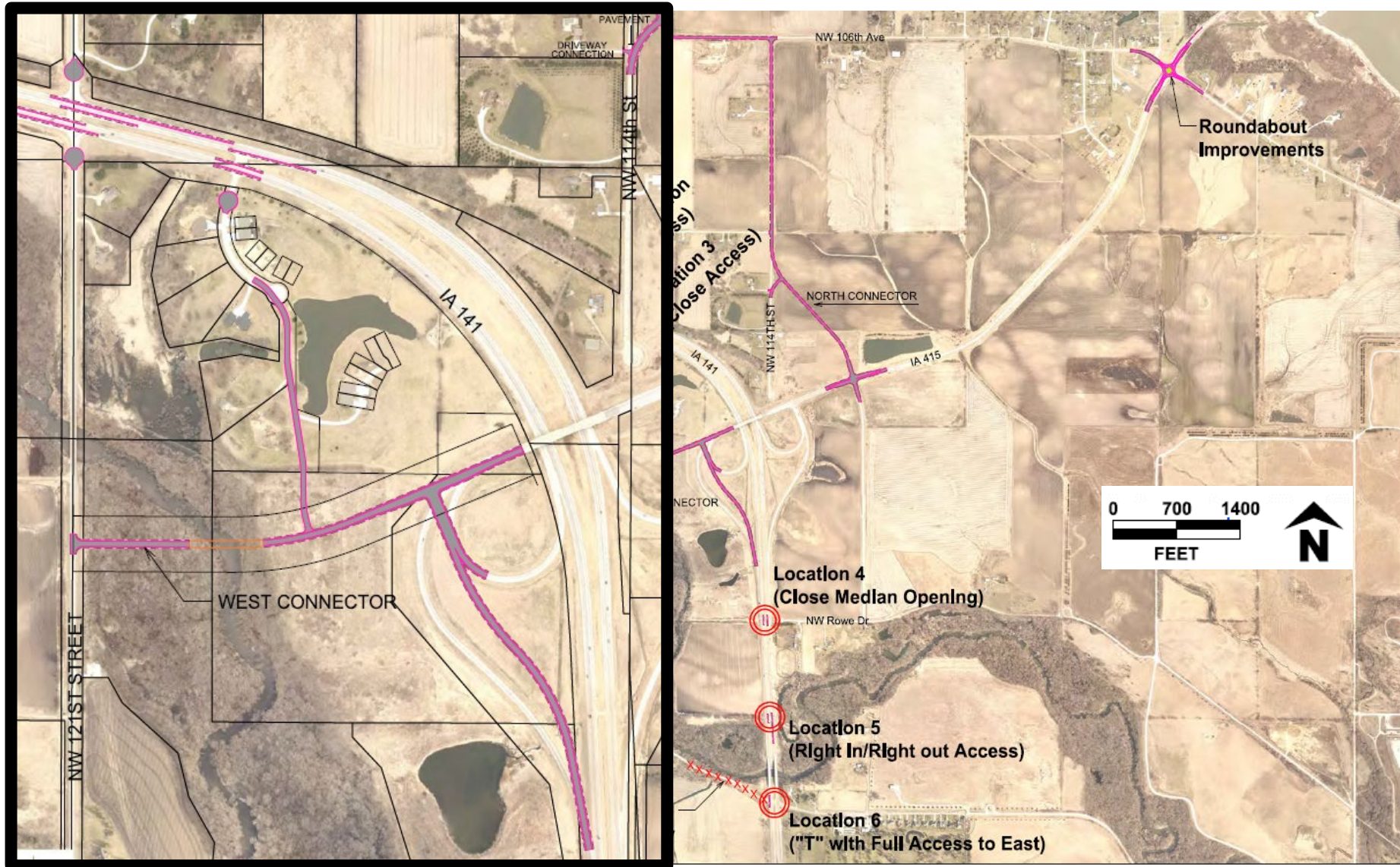
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Alternatives Analysis





QUESTIONS?

CALENDAR YEAR 2024 MEETING DATES

Calendar Year 2024 Meeting Dates

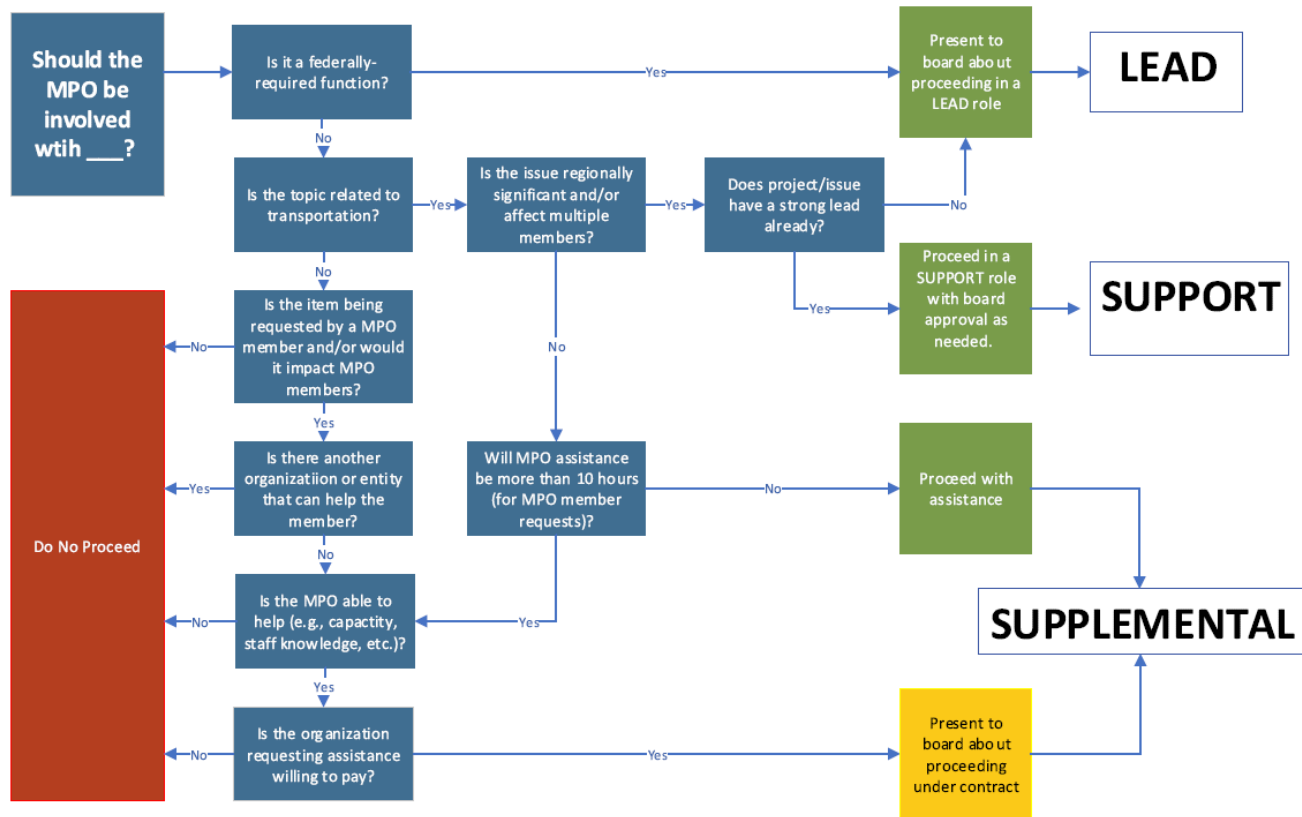
TTC 9:30 am	Exec 11:30 am	Policy 4:00 pm
January 4	January 10	January 18
February 1	February 7	February 15
March 7	March 13	No meeting
April 4	April 10	April 18
May 2	May 15*	May 16
June 6	June 12	June 20
July 11**	July 17	No meeting
August 1	August 7	August 15
September 5	September 11	September 26***
October 3	October 9	October 17
November 7	November 13	November 21
December 5	December 11	No meeting

DECISION MAKING TREE

Decision Making Tree

- Developed after receiving feedback from MPO members and Policy Board about need for more clarity about what MPO gets involved with
- Tool to guide whether MPO should be involved with projects/initiatives and at what level:
 - Lead: MPO in leadership position
 - Support: MPO in a position of supporting others that are leading the activity
 - Supplemental: MPO supports project outside its core mission or provides limited support for non-regional projects
 - No Involvement: MPO is not involved at all

Decision Tree



Decision Tree Definitions

LEAD

MPO is in a leadership position. Activities performed in this role may include the following:

- All federally required activities of the MPO (i.e., LRTP, TIP, UPWP, awarding STBG funds, Public Involvement Plan)
- Project development (i.e., taking project from conception through implementation). * Note: Specific projects that receive this assistance will likely be limited, due to staff capacity, and will be determined by the MPO board. It is not the intent that the MPO will manage actual construction of projects as it does with water trails. This responsibility would be left to a MPO member.
 - Leading facilitation on projects affecting multiple jurisdictions.
 - Project funding which may include:
 - Significant STBG funds for implementation
 - Developing grant applications and grant administration, if necessary
 - Allocating staff time and/or funding for studies/planning; if consultants are used, MPO is the contracting entity.
- Building/maintaining/acquiring tools and data necessary for MPO activities that are otherwise unavailable (e.g., travel demand model, data bike)
- All functions listed in Support role.

Recent Examples:

- Transload Facility
- Safe Streets for All Initiative
- Purple Heart Highway Interstate Designation
- Data Bike

SUPPORT

MPO is in a position of supporting others. Activities performed in this role may include the following:

- Offering letters of support for grant applications.
- Ensuring projects are programmed appropriately in the TIP and Long-Range Transportation Plan
- Including projects in the annual DC list.
- Assembling data collected by others for easy use by MPO members.
- Providing data, modeling support, and other technical analysis for use by MPO members.
- Staff and/or board serving on project committees of MPO members and other regional partners.
- Project funding, which may include:
 - Smaller STBG funds for implementation
 - Allocating funding for studies/planning; if consultants are used, the project sponsor is the contracting entity.

SUPPLEMENTAL

MPO supports other projects outside of its core mission as capacity and board willingness allows. These situations will likely be rare and must have extenuating circumstances for the MPO to be involved (e.g., regional need but no other entities or consultants available to assist)

MPO provides limited planning support to MPO members for non-regional projects (e.g., map making, assistance with DOT grant applications, public input assistance).

PLANNING AREA BOUNDARY UPDATE

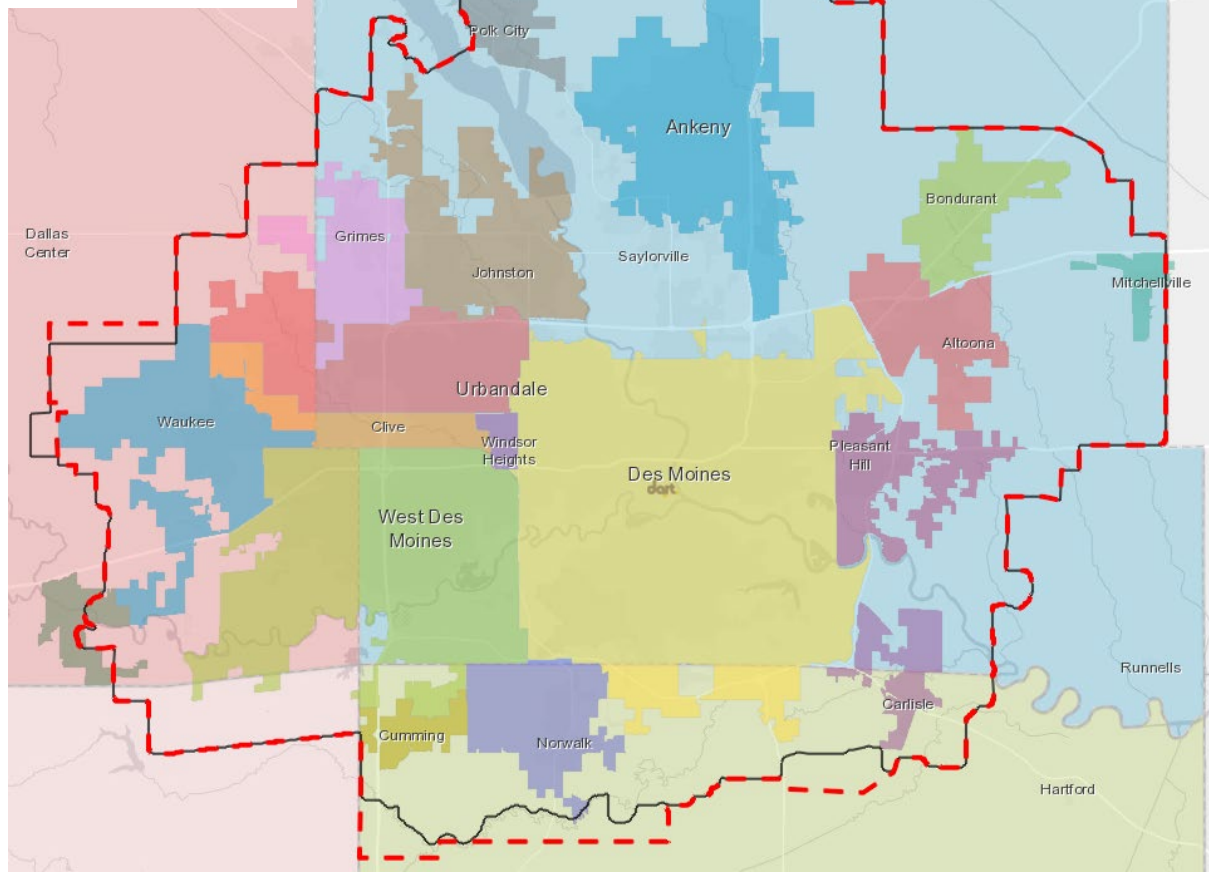
Planning Area Boundary Update

- Boundary is being updated in conjunction with the long-range transportation plan update
- Boundary is required to include the Urban Area Boundary (approved in September 2023) as well as future growth anticipated within the next 20 years
- Staff has reviewed future land use maps/comprehensive plans to determine adjustments to the current boundary

Proposed MPO Planning Area
Boundary



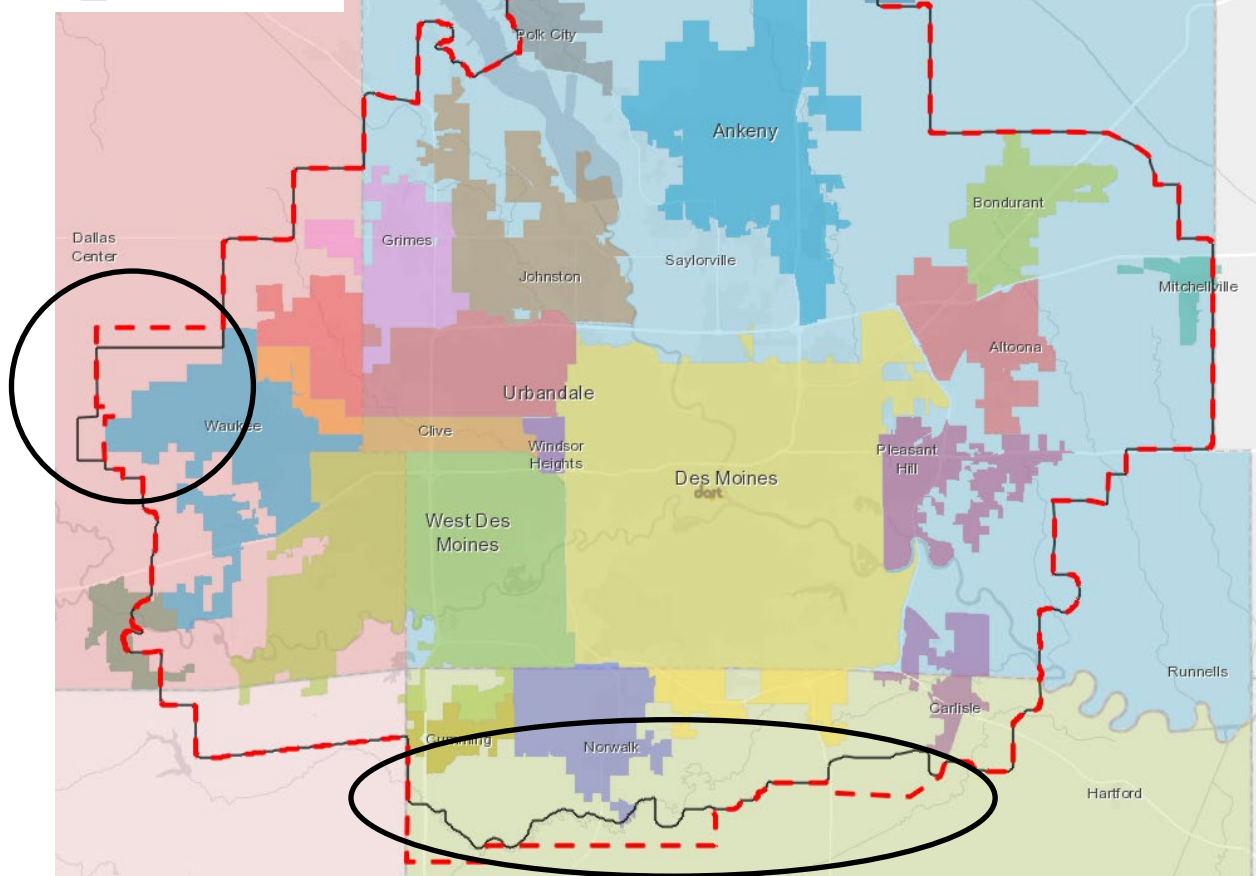
Current MPO Planning Area
Boundary



Proposed MPO Planning Area
Boundary



Current MPO Planning Area Boundary



MOBILIZING TOMORROW UPDATE

Mobilizing Tomorrow Update

- Items to discuss regarding LRTP update:
 - Funding Projections
 - Growth Scenario
 - Project Solicitation

Mobilizing Tomorrow Update

- Funding Projections

- New federal guidance now only requires fiscal constraint to cover the first 10-years of the LRTP
- Therefore, staff has developed preliminary funding projections for 2025-2034
- Staff has developed projections for the following funding sources:
 - Federal – STBG, TAP, CRP
 - State – RUTF
 - Local – property taxes and bonds

Mobilizing Tomorrow Update

■ Funding Projections – Federal

- Staff used historical data going back to 2015 to determine annual growth rate for STBG and TAP
- Projected 5-year targets from the Iowa DOT were used to determine annual growth rate for CRP

Figure 1: Historical Federal Revenue Sources

Federal Fiscal Year	STBG	TAP	CRP*
2015	\$12,008,824	\$1,185,972	\$1,381,465
2024	\$15,202,762	\$ 1,478,689	\$1,439,000
Percent Change 2015-2024	26.60%	24.68%	4.16%
Annual Growth Rate - Historical	2.66%	2.47%	0.83%
Annual Growth Rate - Plan	2.50%	2.50%	0.50%

Mobilizing Tomorrow Update

- Funding Projections – State (RUTF)
 - Staff used historical data going back from 2017-2023 to determine annual growth rate for RUTF

Figure 2: Historical Road Use Tax Revenue	
Federal Fiscal Year	RUTF
2017	\$59,442,468
2023	\$72,350,689
Percent Change 2017-2023	21.72%
Annual Growth Rate - Historical	3.10%
Annual Growth Rate - Plan	2.50%

Mobilizing Tomorrow Update

- **Funding Projections – Local Funding**
 - Staff used the Iowa DOT's Street Finance Reports to determine a 4-year average (2020-2023) for local transportation funding.
 - Due to recent actions at the state legislature, staff is proposing an annual growth rate of zero percent

Year	2020	2021	2022	2023	Total
Local Transportation Expenditures	\$300,665,649	\$345,125,981	\$467,804,635	\$434,105,652	\$1,547,701,917
4-Year Average					\$386,925,479

Mobilizing Tomorrow Update

■ Funding Projections – 2025-2034

- Used *annual growth rate – plan* to determine an annual funding increase which was added to each year to create a straight-line projection
- Historically, approximately 40 percent of local funding has been used for construction projects

Funding Type	2025-2029	2030-2034	Total
Federal	\$94.6	\$108.6	\$203.1
RUTF	\$388.9	\$434.1	\$823.0
Local	\$1,934.6	\$1,934.6	\$3,869.3
Available Funding for Construction	\$773.9	\$773.9	\$1,547.7
Total	\$1,257.3	\$1,316.5	\$2,573.8

Mobilizing Tomorrow Update

- Next Steps

- Finance Subcommittee will review at November 6th meeting
- Bring funding projections back at December meetings for approval
- Staff will work with Iowa DOT staff and DART staff to develop projections for DOT funding and transit funding

Mobilizing Tomorrow Update

- Growth Scenario
 - Staff is in the process of developing projections for housing and employment
 - Staff is also finalizing TAZ (Transportation Analysis Zones)
 - Will distribute TAZ shapefile along with housing and employment projects for member communities to allocate their future growth
- Project Solicitation
 - Staff is developing a Google form to collect projects for the LRTP
 - Project will be solicited for 2025-2034 time-frame

FFY 2028 SURFACE TRANSPORTATION BLOCK GRANT PROGRAM SCHEDULE

FFY 2028 Surface Transportation Block Grant Program Schedule

- Applications posted on December 1, 2023
- Applications due January 5, 2024
- Applicant presentations February/March 2024

- Staff is reviewing/updating program guideline for the TAP program based on changes made by the Iowa DOT.

WATER TRAILS BUILD GRANT UPDATE

Water Trails BUILD Grant Update

- Work Completed since July:
 - Graded south bank and trail
 - Railroad bridge footings removed
 - Constructed maintenance path on north bank
 - Mocked up cascading drops
- Upcoming Work:
 - Crain mobilization and driving sheet piles for the cascading drop in north half of river
 - River levels are low, can proceed without coffer dam at this time





Water Trails BUILD Grant Update

- Harriet Street Letting
 - Letting was on October 17th
 - Received 5 bids that were all under the \$3.48 million engineers estimate
 - Peterson Contractors, Inc is the apparent low bidder at \$1.7 million
 - MPO will hold a public hearing at the November 16th Policy Committee meeting to award the construction contract

UPCOMING EVENTS

Upcoming Events

Webinars

- [Water Management on Legacy Trails: The SET \(Sustainable, Effective, Traversable\) Standard](#) – November 16
- [How to Keep a Statewide Plan Off the Shelf: Pedestrian Planning in Minnesota](#) – November 15
- [Digital Transformation of Trail Management and Monitoring](#) – November 30

Events

- [Iowa State University \(ISU\) Institute for Transportation \(InTrans\) Traffic and Safety Forum](#) - November 8 – Ames
- [ISU InTrans Municipal Streets Seminar](#) - November 14 – Ames
- [Iowa Winter Maintenance Workshop](#) – November 15 – Indianola
- [TRB Transportation Resilience 2023 – International Conference on Extreme Weather & Climate Change Challenges](#) – November 13-15th – Washington, D.C.
- [AASHTO Annual Meeting and Expo](#) – November 13-16 – Indianapolis, IN

OTHER ITEMS OF INTEREST

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