11 Mile Streetscape Plan Summary & Optional 3-Lane Configuration Addition

Summary of Plan & Optional 3-Lane Configuration Pros/Cons

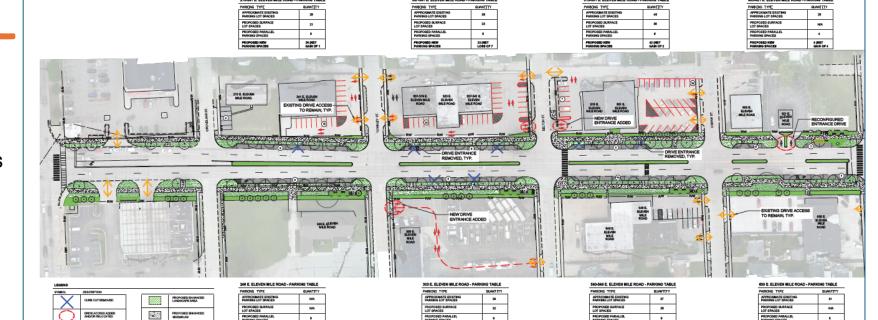
Preferred 4-Lane Configuration

- Plan remains mostly the same since last presented in Winter 2023-2024.
- Plan includes existing bus stops and includes upgraded enclosures at the John R & 11 Miles stops.
- Adding on-street parking creates a net gain of approximately (22) spaces.
- Only block to lose spaces is 307-341 E 11Mile (net loss of 7).

Parking and access to adjacent businesses and property owners was a key issue during the design study. Within the focus area, the Design Team developed conceptual plans to illustrate how site access to adjacent parcels could be re-configured to allow for proposed right of way improvements. In some cases, closing curb cuts along 11 Mile were a proposed way of creating a more cohesive streetscape helping improve pedestrian safety.

The diagram below illustrates locations where curb cuts could be removed (shown with a blue "X") and how internal circulation could be adjust to accommodate the right of way improvements (shown in red).

As a result of adding the on-street parking there was a net gain of approximately 22 parking spaces within the focus area parking spaces



SCALE IN PRET

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PROPOSED ON STREET PARALLEL PARKING



Preferred 4-Lane Configuration

- Curb cuts, on-street parking, 8ft walkway not TAP eligible activities as presented.
- TAP Grant anticipated to cover HAWK crosswalk signal, and pedestrian amenities.
- A 10ft wide path that meets meet AASHTO standards on North 11 Mile is TAP Grant Eligible (Option 2).

PREFERRED OPTION - SHARED USE PATH







A shared use path is typically wider than a traditional sidewalk and is designed to accommodate pedestrians and cyclists.



Lane markings and changes in material can be used to define various



Providing thoughtful solutions for transit riders, pedestrians, scooters, and bicyclists can improve the mobility, access, and safety.

PREFERRED OPTION - WITH SHARED USE PATH



Preferred Option - With Shared Use Path

An alternate consideration of the perferred option included the addition of a 10' wide Shared Use Path along the north side of the study corridor.

A shared use path provides a travel area separate from motorized traffic for bicyclists, scooter users, pedestrians, skaters, wheelchair users, joggers, and other users.

Shared use paths can provide a low-stress experience for people using the network for transportation or recreation and are fully separated from vehicular traffic. Shared use paths differ from cycle tracks in that they are can include pedestrians even if the primary anticipated users are cyclists and scooters.

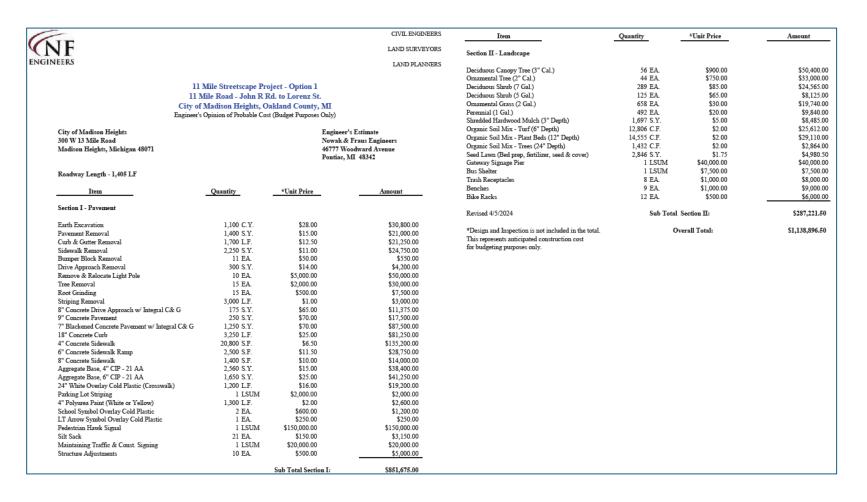
This option is shown as "Option 2" in Appendix A8- A11.

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4-Lane Configuration Estimated Costs

- Estimated Total Cost \$1,135,721.50
- If awarded, staff estimates about \$272,937.50 of these costs are TAP eligible costs, \$150,000 of which would be for a HAWK crosswalk signal.



Why Should We Consider Including a 3-Lane Option to the Streetscape Plan?







CONSTRUCTION COST SAVINGS

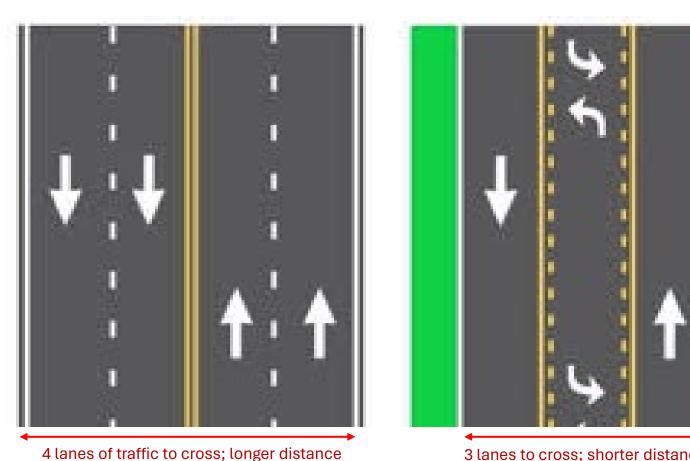


BETTER ALIGNED WITH TAP GRANT FUNDING

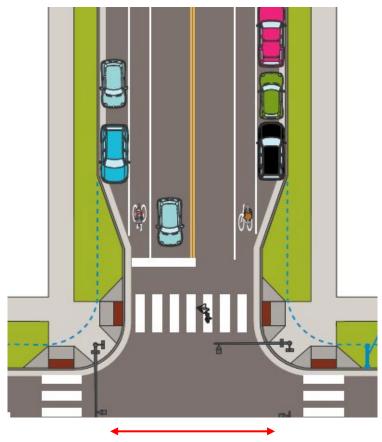
4-Lane v. 3-Lane Configuration Safety Benefits

• https://www.tiktok.com/@streetcraft/vid eo/7351076999500287278?_r=1&_t=8lAg WroVz2s

Shorter Distances = Pedestrian Safety



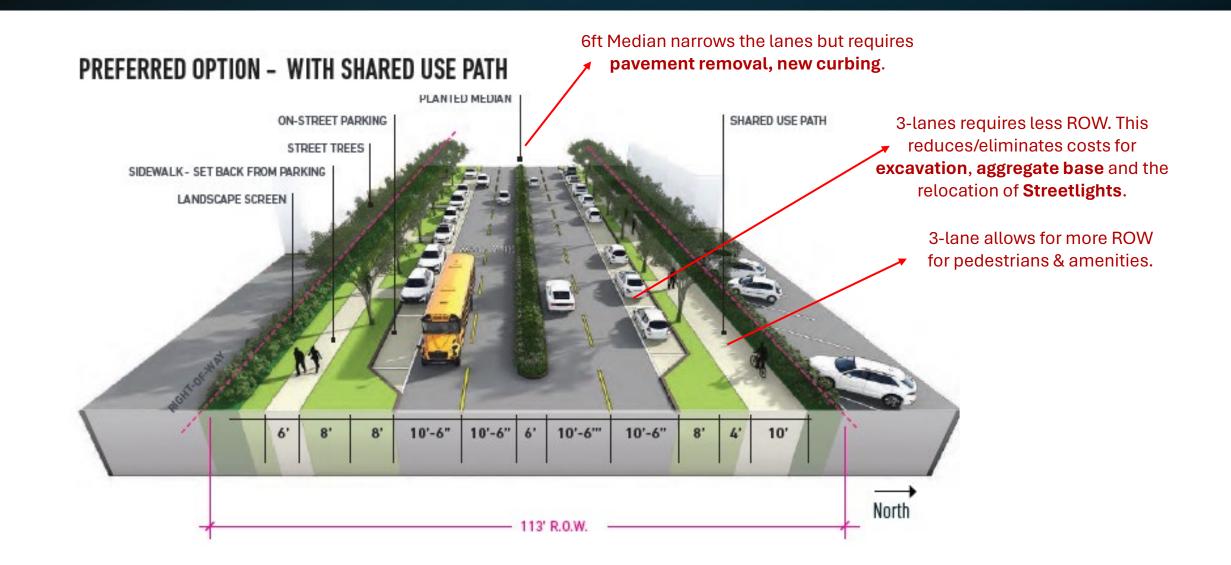
3 lanes to cross; shorter distance



With bump out curb extension the distances are even shorter, and curbing to do so is TAP eligible.

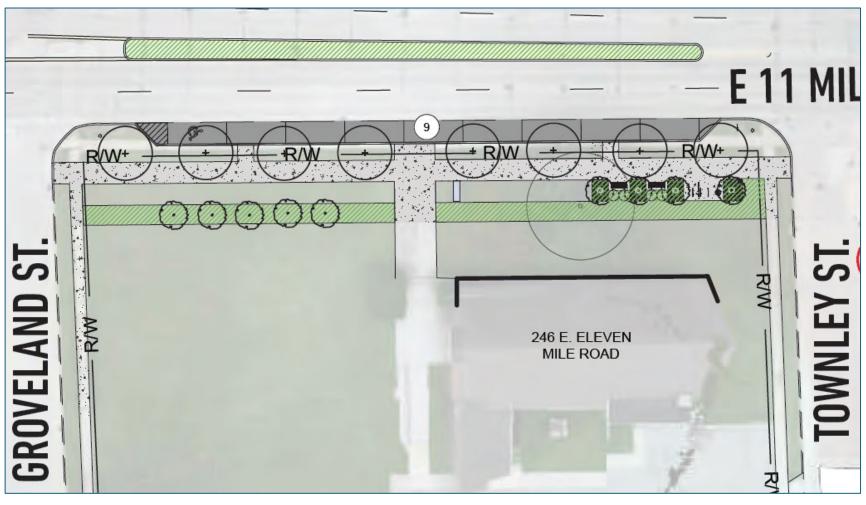
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3-Lane Areas for Potential Cost Savings





Additional 3-Lane Cost Savings: No Property Acquisition



United Methodist Church

\blacksquare

Additional 3-Lane Cost Savings

Average RRFB Signal Cost: \$22,250



HAWK Signal Cost: \$100,000-150,000



Royal Oak 11 Mile Study (2022)

- Royal Oak evaluated reducing lanes along 11 Mile Rd from 5 and 4 lanes to a 3-lanes from Woodward to Stephenson Hwy to improve safety. Examined (11) intersections for capacity, safety and geometry.
- No formal action will be taken until 2026-2027, but the project has been favorably received by stakeholders thus far.
- Complimenting neighboring communities builds a more cohesive and connected corridor, strengthening our TAP Grant application.

Exhibit 1 - Existing Geometry - 11-Mile Road Corridor

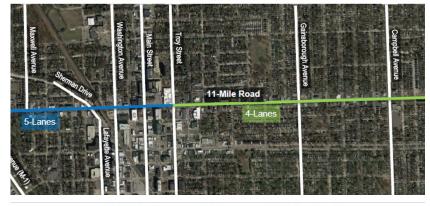


Exhibit 3 – Recommended Geometry – 11-Mile Road Corridor



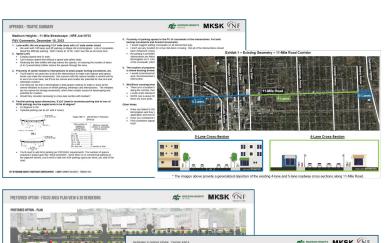
Royal Oak 11 Mile Corridor Study Cont'd

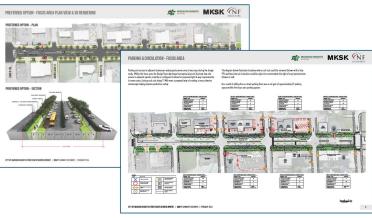
- Crashes are expected to be reduced by 15-17%.
- The maximum movement delay is **less than 10 seconds.**
- Total time increase through entire corridor ranges between
 0.5- 1.8 minutes
- A reduction to 3-lanes is projected to have a negligible increase in delay over the next twenty years.

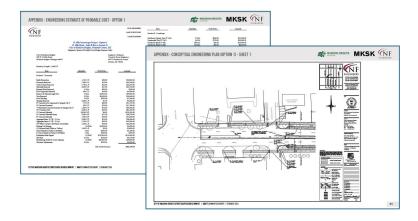
Road Diet Delay Summary (2022) w/ Mitigation Measures						
	AM Peak Hour	MD Peak Hour	PM Peak Hour			
Max Intersection Increase in Delay	2.6 sec	2.8 sec	3.3 sec			
Max Turning Movement Increase in Delay	9.1 sec	5.7 sec	8.3 sec			
11-Mile Corridor Travel Time Increase	0.5 min (EB) 0.9 min (WB)	0.4 min (EB) 0.2 min (WB)	1.8 min (EB) 0.8 min (WB)			
	0.0 11111 (110)	V.E IIIII (112)	0.0 11 (11.2)			
Road Diet Delay	, ,	// Mitigation Measu				
Road Diet Delay	, ,	, ,	ıres			
Road Diet Delay S	Summary (2042) v	// Mitigation Measu				
•	Summary (2042) v AM Peak Hour	// Mitigation Measu MD Peak Hour	ıres PM Peak Hour			

What would the adding a 3-lane configuration to the 11 Mile Streetscape Plan include?

- Traffic study along 11 Mile Rd from Stephenson to Dequindre examining vehicle delays, queues and crashes.
- Focus Area Plan View with 3D Rendering and a Focus Area Parking & Circulation Plan.
- 3. A revised layout with engineers estimated construction costs for the focus area.









What Are the Tradeoffs?

- Costs \$26,000 and savings known only after incurring additional costs.
- Will push TAP Grant Application submittal from June 19th to October 9th 2024.

Transportation Alternatives Program including Safe Routes to School category

2023-2024 Grant Application Schedule

To assist grant applicants with project timeline planning
Contact the Grant Coordinator for your region BEFORE you submit an application.

COMPLETE applications are accepted in MGS year-round for any future fiscal year. Applicants should use the following schedule to plan project timelines for potential grant applications. When a project is selected for funding, the applicant will normally receive a Conditional Commitment for funding in a future state fiscal year.

Missing or inaccurate information may delay your grant request into a future review cycle. Application completeness and any application resubmission dates are determined by the Grant Coordinator and may normally be earlier than the final resubmission dates listed below.

Please consult the TAP/SRTS Applicant Guide for more details on schedule planning.

Latest Initial Contact with Grant Coordinator for this Review Cycle	Application Due Date	Application Review Committee Meeting	Final Date for Resubmitting Application with Requested Revisions, or Application Moved to Future Review Cycle	Tentative Funding Decision Date (for future fiscal year funds)
at least 12 weeks before Application Due Date	9-10 weeks before ARC	ARC	5-6 weeks after ARC	12 weeks after ARC
7/20/2022	10/12/2022	12/14/2022	01/18/23	3/8/2023
11/29/2022	2/22/2023	4/26/2023	05/31/23	7/26/2023
3/29/2023	6/21/2023	8/23/2023	09/27/23	11/15/2023
7/19/2023	10/11/2023	12/13/2023	01/17/24	3/6/2024
11/29/2024	2/21/2024	4/24/2024	5/29/2024	7/24/2024
3/27/2024	6/19/2024	8/28/2024	10/2/2024	11/20/2024
7/17/2024	10/9/2024	12/11/2024	1/22/2025	3/12/2025

Projected Project Timelines

Adopt Plan as is

Public Engagement

Event: May 21st

TAP Grant Submitted: June 19th

Grant Decision: Winter 2024.

Estimated Letting Date: **May-November 2026**

Include 3-Lane Option in Plan

Completion of Plan: **End of May 2024**

Public Engagement & DDA Adoption: **June-September 2024**

TAP Grant Submitted: October 9th

Grant Decision: **Spring 2024**.

Estimated Letting Date: August 2026-January 2027

Questions?