



**AGENDA**  
CHARTER TOWNSHIP OF MERIDIAN  
MERIDIAN TRANSPORTATION COMMISSION  
December 8, 2022 (Special Meeting) 6:00 p.m.

1. CALL MEETING TO ORDER
2. APPROVAL OF AGENDA
3. APPROVAL OF MINUTES
  - A. September 22, 2022
4. COMMUNICATIONS
5. PUBLIC REMARKS
6. COMMISSION DISCUSSION
  - A. 2023 Master Plan Update (Discussion)
  - B. 2023 Meeting Schedule (Action)
  - C. Okemos Safe Routes to School Review (Discussion)
  - D. General Commission Comments
7. PROJECT UPDATES
  - A. MDOT M-43 Project update (Staff)
  - B. Okemos Road Project update (Staff)
  - C. Local Roads and Other Construction Projects update (Discussion)
8. REPORTS / ANNOUNCEMENTS
  - A. Township Board
  - B. Planning Commission
  - C. Chair
  - D. Staff
    - i. 2022 Project Review
9. NEXT MEETING DATES
  - A. Planning Commission Meeting December 12, 2022
  - B. Transportation Commission Meeting January 19, 2023
10. ADJOURNMENT

**IN PERSON MEETING**

**Town Hall Room**

**5151 Marsh Road**



Charter Township of Meridian  
Meridian Transportation Commission  
5151 Marsh Road, Okemos, MI 48864  
Thursday, September 22, 2022 – Minutes – DRAFT

**Members Present:** Chair Vagnozzi, Vice-Chair Lovell, Commissioner Robertson, and Commissioner Potter

**Members Absent:** Commissioner Hudson, Commissioner Van Coevering, and Trustee Sundland

**Others Present:** Senior Planner Shorkey, Director of Public Works Opsommer, Police Sergeant McCready, Planning Commissioner McConnell, and Planning Commission liaison Snyder

1. CALL MEETING TO ORDER

Chair Vagnozzi called the meeting to order at 6:04 PM

2. APPROVAL OF THE AGENDA

**MOTION BY VICE-CHAIR LOVELL TO APPROVE THE AGENDA. SUPPORTED BY COMMISSIONER POTTER. MOTION PASSES 4-0.**

3. APPROVAL OF THE MINUTES – June 16, 2022

**MOTION BY COMMISSIONER ROBERTSON TO APPROVE THE AGENDA. SUPPORTED BY VICE-CHAIR LOVELL. MOTION PASSES 4-0.**

4. COMMUNICATIONS

No communications were received since the last meeting.

5. PUBLIC REMARKS

Planning Commissioner McConnell discussed an email that he had sent to the Transportation Commission and discussed the Master Plan update with the Transportation Commission. Senior Planner Shorkey said that he would forward the email to the correct person for action.

6. COMMISSION DISCUSSION

A. Lake Lansing Road Non-motorized Improvement Project

Neal Galehouse from the Ingham County Road Department gave a presentation about the Lake Lansing Road Non-motorized Improvement Project scheduled for 2023. Vice-Chair Lovell asked for clarification about pedestrian signals. Commissioner Robertson asked if the bidding for the project would be an RFP. Commissioner Potter asked if notices went out to bike advocacy groups as well as residents. Mr. Galehouse described the ICRD's outreach efforts. Vice-Chair reviewed a previous letter from the Tri-County Bike Association to ensure that their questions had been addressed.

Vice-Chair asked about the possibility of connecting a side trail to a nearby park. Wendy Longpre from East Lansing Parks Department said that it was possible that the City of East Lansing might pursue Safe Routes 2 School funds to connect the trail in the future. Vice-Chair Lovell asked if signage was going to be erected to discourage motorists from travelling through neighborhoods during the construction detour. Chair Vagnozzi asked Senior Planner Shorkey to advertise the ICRD's public hearing for the project on the Township's website.

Commissioner Potter suggested calling the project a 4 to 5 lane project since there are two bike lanes and asked if the bike lanes would be signed and marked. After discussion about the bike lanes, Director of Public Works Opsommer said that the Township would be willing to cost share if the bike lanes could be marked.

B. Bicycle Friendly Community update

Senior Planner Shorkey summarized the Bicycle Friendly Community application in the packet and informed the Transportation Commission that he was ready to send it. The Transportation Commission thanked Senior Planner Shorkey for his work. Vice-Chair Lovell said that he looks forward to the application feedback and would not consider it a loss if they did not receive an award. Mr. Shorkey said that he expected to present the feedback from the League of Bicyclists no earlier than the January 2023 meeting.

C. Redi-Ride Relocation Discussion

Chair Vagnozzi followed up this item from the July CATA presentation. CATA was willing to swap Redi-Ride locations from the unused Aquatic Center stop to the McClaren Hospital on Collins Road. Chair Vagnozzi asked Director of Public Works Opsommer what steps needed to be taken to ask the Board to officially request CATA to swap the sites. Director of Public Works Opsommer said that a simple motion would suffice.

**AFTER DISCUSSION, MOTION BY VICE-CHAIR LOVELL TO REQUEST THE BOARD TO ASK CATA TO EXTEND SERVICE TO THE MCCLAREN HOSPITAL COMPLEX AND CEASE SERVICE TO THE EAST LANSING AQUATIC CENTER. SUPPORTED BY CHAIR VAGNOZZI. MOTION PASSES 4-0.**

D. General Commission Comments

Commissioner Potter asked about CATA shuttle service on Grand River during construction. Director of Public Works Opsommer said that CATA had resumed normal bus service in July. General discussion about pedestrian access on Grand River.

Commissioner Potter asked about a recent pedestrian fatality and if anything was being done. Sergeant McCready said that the accident was the fault of the pedestrian and that no changes to traffic were planned.

Chair Vagnozzi commented about faded ‘No Enter’ signs and Director of Public Works Opsommer said that they could discuss them after the meeting. Commissioner Potter said that people are being observed going the wrong way in Tacoma Hills. Commission Robertson asked about a recent fatality at Haslett and Marsh. Director of Public Works Opsommer pointed out that was a motor vehicle crash and didn’t involve any pedestrians. Commissioner Potter asked for an update on the Lake Lansing to MSU trail.

7. PROJECT UPDATES

A. MDOT M-43 Project update

Director of Public Works Opsommer updated the Transportation Commission on the Grand River project.

B. Okemos Road Project update

Director of Public Works Opsommer updated the Transportation Commission on the Okemos Road bridge project.

C. Local Roads and Other Construction Projects update

Director of Public Works Opsommer updated the Transportation Commission on the local road projects.

D. Railroad Quiet Zone update

Director of Public Works Opsommer updated the Transportation Commission on the railroad quiet zone project.

8. REPORTS/ANNOUNCEMENTS

A. Township Board

Director of Public Works Opsommer updated the Transportation Commission on the recent Board activities.

B. Planning Commission

Senior Planner Shorkey updated the Transportation Commission about the Haslett Village project. Commissioner Snyder updated the Transportation Commission about recent Planning Commission activities.

C. Chair

Chair Vagnozzi said that the bike lane signs on Kinawa Drive are faded. Senior Planner Shorkey said that he would look into the issue.

D. Staff

Commissioner Potter asked Director of Public Works Opsommer for an update on the Meridian and Grand River intersection project. Director of Public Works Opsommer said that project was pushed to 2023 to coordinate with the rest of the Grand River project. Commission Potter asked Sergeant

McCready about a recent accident at Hamilton and Grand River. Sergeant McCready said that there was no increase in accidents that require action.

9. NEXT MEETING DATES

The next meeting of the Commission is scheduled for November 17, 2022.

10. ADJOURNMENT

Chair Vagnozzi adjourned the meeting at 7:52 p.m.



**To:            Transportation Commission**

**From:         Brian Shorkey, AICP, Senior Planner**

**Date:         December 1, 2022**

**Re:            2023 Master Plan Update**

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In August, the Planning Commission asked Staff to issue the Notice of Intent to Plan for the 2022 Master Plan Update. This is an update to the 2017 Plan, which was a comprehensive update to the long-range planning in the Township. Prior to that, the plan had not been updated since 2005. The update was formally launched with a public hearing held at the October 24<sup>th</sup> Planning Commission meeting.

Planning Staff is letting the Transportation Commission know about the 2022 Master Plan update now. Communications Staff has created a website for the Master Plan, which includes a Master Plan Feedback Form and can be found at <https://www.meridian.mi.us/about-us/departments/community-planning-development/master-plan>.

The Planning Commission welcomes the input of the Transportation Commission to help guide the goals and objectives for the next five years and all comments are welcome at this time.

For your reference, Goal #6 in the current Master Plan relates to transportation related issues and states, "Provide and Support an Efficient, Safe, and Environmentally Sensitive Multi-modal Transportation Network." Goal #6, along with its associated objectives and strategies, are attached to this memo for your reference.

# 6

## GOALS AND OBJECTIVES

### Provide and Support an Efficient, Safe, and Environmentally Sensitive Multi-modal Transportation Network

- A Evaluate the existing transportation network and identify problems, including traffic congestion, safety, environment, and aesthetics, which can be solved at acceptable cost.**

**STRATEGIES:**

1. Cooperate with county, regional, and state entities to develop strategies to improve traffic flow.
2. Consider zoning and other design strategies such as Complete Streets as effective means of ensuring safe and efficient travel for all modes of transportation.

- B Maintain local roads.**

**STRATEGIES:**

1. Support improvements to local streets when a special assessment district request has been received from local residents.
2. Review reconstruction and expansion of local non-subdivision streets through the Capital Improvements Program process, when 50 percent of the improvement's funding will be paid for by the Township or its residents through special assessment districts.

- C Support the Township's Complete Streets Ordinance.**

**STRATEGIES:**

1. Share the Township's vision and work with transportation and road authorities.
2. Review current policies to identify inconsistencies and impediments to implementing the Complete Streets ordinance.
3. Conduct planning, regulatory, and physical audits of current street designs as needed and financially feasible.
4. Coordinate the Pedestrian/Bicycle Pathway Plan with Safe Routes to School policies and other Township plans.

- D Expand and improve the Pedestrian/Bicycle Pathway Plan.**

**STRATEGIES:**

1. Continue to implement the requirement for sidewalks as determined necessary.
2. Continue to implement the pedestrian/bicycle pathway system through site plan review.
3. Continue to support the pedestrian/bicycle pathway millage for construction and maintenance of the Township's pedestrian/bicycle pathway system.
4. Investigate alternative surfacing materials to reduce the amount of impervious surface materials used in the construction of the pedestrian/bicycle system.
5. Continue to investigate strategies for safe and efficient travel for bicyclists and pedestrians.
6. Coordinate the Pedestrian/Bicycle Pathway Plan with parks, schools, preserves, Greenspace Plan, neighborhoods, and other destinations.

**E Encourage the use of public transportation.****STRATEGIES:**

1. Encourage and promote public transportation service to any new developments and in conjunction with redevelopment via site plan review.
2. Institute design standards for site plan review to ensure public transportation access to all segments of the population but particularly those with physical disabilities.

**F Coordinate Meridian Township's transportation planning with regional planning efforts administered by the Tri-County Regional Planning Commission and recorded in the 2035 Regional Transportation Plan.****STRATEGIES:**

1. Coordinate transportation planning and road improvements for all non-local streets with the region's long-range plan.
2. Advocate and promote the Township's needs and interests in transportation improvements with transportation and road authorities.

**GOALS AND OBJECTIVES****Promote efficient and sustainable growth practices****A Implement sustainable energy and environmental practices throughout the Township by utilizing the most current best practices.****STRATEGIES:**

1. Budget funds to have Township buildings assessed for energy efficiency a minimum of once every five years.
2. For Meridian Township procurement purposes, when equivalent products or services are available, preference should be given to the more sustainable services or products.
3. Encourage electric car charging stations.
4. Establish a minimum level of LEED certification or the equivalent for all projects undertaken by the Township.
5. Establish ordinances providing incentives for development that emphasize redevelopment, infill development, alternative energy, and building material reuse.
6. Increase the use of alternative transportation modes for commuting and recreation by encouraging the use of mixed use planned unit developments and implementing the Greenspace Plan.
7. Explore methods, through ordinances or by providing incentives for existing businesses, to upgrade their parking lots and landscaping to increase tree cover and shade, to be energy efficient, and environmentally friendly.
8. Explore incentives for new or redeveloped projects to be LEED certified or equivalent.
9. Work with developers to consider alternative energy use in site plan and construction of new development.
10. Encourage the use of alternative energy throughout the Township and develop a coordinated, integrated vision to incorporate renewable energy into the energy mix.



**To:            Transportation Commission**

**From:         Brian Shorkey, AICP, Senior Planner**

**Date:         December 1, 2022**

**Re:            2023 Meeting Schedule**

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Included in this memorandum is a list of proposed Transportation Commission meeting dates for 2023. Typically, the Transportation Commission meets on the third Thursday every other month at 6 p.m. No special or work session meetings are planned but may be added by the Transportation Commission during the year if warranted.

**2023 MEETING CALENDAR**

|           |                      |
|-----------|----------------------|
| January   | 19 - regular meeting |
| March     | 16 - regular meeting |
| May       | 18 - regular meeting |
| July      | 20- regular meeting  |
| September | 21 - regular meeting |
| November  | 16 - regular meeting |

A resolution is provided for the Transportation Commission to adopt the above meeting schedule.

**Transportation Commission Meeting Dates  
2023 Meeting Schedule**

**RESOLUTION**

At a regular meeting of the Transportation Commission of the Charter Township of Meridian, Ingham County, Michigan, held at the Meridian Municipal Building, in said Township on the 8th day of December, 2022 at 6:00 p.m., Local Time.

PRESENT:

ABSENT:

The following resolution was offered by \_\_\_\_\_ and supported by \_\_\_\_\_.

WHEREAS, Public Act 267 of the Public Acts of 1976 requires the publication of the meeting schedule of every municipal board at least once a year; and

WHEREAS, the Transportation Commission desires to announce the time, date, and place of all regular meetings of the Transportation Commission, pursuant to the provisions of Act 267 of the Public Act of 1976;

WHEREAS, it is the desire of the Transportation Commission to maintain a meeting schedule, which is the third Thursday of every other month, starting in January.

NOW, THEREFORE, BE IT RESOLVED BY THE TRANSPORTATION COMMISSION OF THE CHARTER TOWNSHIP OF MERIDIAN, INGHAM COUNTY, MICHIGAN as follows:

1. The Transportation Commission will meet in regular session in the Meridian Municipal Building, 5151 Marsh Road, Okemos, MI, 48864, unless noticed or posted otherwise, at 6:00 p.m. on the third Thursday of every other month, starting in January.
2. The specific dates for meetings are as follows:

|           |                      |
|-----------|----------------------|
| January   | 19 - regular meeting |
| March     | 16 - regular meeting |
| May       | 18 - regular meeting |
| July      | 20 - regular meeting |
| September | 21 - regular meeting |
| November  | 16 - regular meeting |

**2023 Meeting Schedule**  
**Transportation Commission**  
**Page 2**

3. A summary of this resolution stating date, place, and time shall be posted in the Meridian Municipal Building within ten (10) days after the first regularly scheduled meeting of the year in accordance with MCL 15.265.

ADOPTED: YEAS:

NAYS:

STATE OF MICHIGAN )

)ss

COUNTY OF INGHAM )

I, the undersigned, the duly qualified Chairperson of the Transportation Commission of the Charter Township of Meridian, Ingham County, Michigan, DO HEREBY CERTIFY that the foregoing is a true and complete copy of a resolution adopted at a regular meeting of the Transportation Commission held on the 8th day of December 2022.

\_\_\_\_\_  
Steve Vagnozzi, Chair  
Meridian Township Transportation Commission



**To:            Transportation Commission**

**From:         Brian Shorkey, AICP, Senior Planner**

**Date:         December 1, 2022**

**Re:            Okemos Safe Routes to School**

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The Safe Routes to School (SRTS) program is a federal Transportation Alternatives Program funded by the Moving Ahead for Progress in the 21<sup>st</sup> Century Act of 2021 (MAP-21). SRTS is used to fund non-motorized infrastructure improvements around public schools, such as sidewalks, crosswalks, and bumpouts.

Okemos Schools has applied for a SRTS grant for several non-motorized infrastructure improvements around Chippewa Middle School and Kinewa Elementary School in Kinewa Road. Since two schools are involved in the application, a total of \$440,000 of grant money is programmed for this application.

A steering committee has been formed to write up the final application and infrastructure improvements. At this time, the committee is gathering input for the project. Staff is asking the Transportation Commission to review the Okemos SRTS application and submit any comments they may have. A condensed presentation that describes the recommended engineering improvements is included with this memo.

# Okemos Public Schools

## Safe Routes to School

Okemos, Michigan

November 15, 2022



# Safe Routes to School Grant

- The Safe Routes to School Program (SRTS) is a federal Transportation Alternatives Program funded by the Moving Ahead for Progress in the 21st Century Act of 2012 (MAP-21)
- The federal-aid SRTS program funds The Michigan Department of Transportation (MDOT), working with the Michigan Fitness Foundation (MFF)
- Infrastructure grants cover built environment improvements such as sidewalks, crosswalks, bump-outs, etc.
- Non-infrastructure grants are for programming that encourages walking and biking to and from school

## Infrastructure

\$220,000 per school



## Programming

\$10,000 per school





# Project Overview



## Purpose of Safe Routes to School

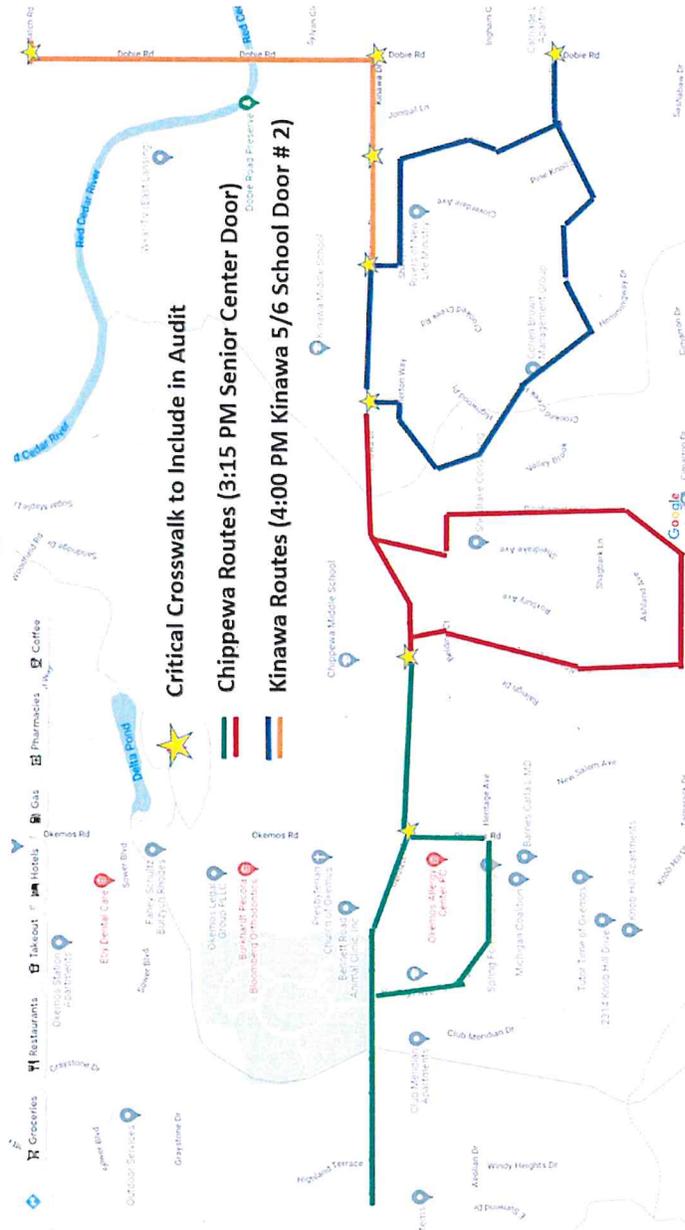
- To enable and encourage children in grade schools, including those with disabilities, to walk and bicycle to school
- To make bicycling and walking a more appealing and safe choice of transportation
- To facilitate the planning, development, and implementation of activities that improve safety and reduce traffic, fuel consumption, and pollution near schools

# Walking Audit

The MSU walking audit was done for two schools including Chippewa Middle School, and Kinawa Middle Elementary.

The following slides will present the summary results from the walking audits.

## Chippewa/Kinawa Walking Audit Routes



# What is working well?

- Crossing guards
- Law enforcement
- Multiple crosswalks
- Sidewalks seeing a lot of use
- Signage of school zone and speed limit
- Signal timing
- Good visibility during the day
- Buffers and setbacks of sidewalks
- Wide sidewalks
- RRFB working well
- Good maintenance and plowing
- Dobie is wide enough for both walkers and cyclists
- Focus on connection with low income & disability residences
- Small sidewalk to exit school property without crossing car lines

# What is not working well?

- No one stops for kids trying to cross (Walking to Chippewa from Okemos - west neighborhood and on south side)
- Ice is not handled well off of school grounds
- Sidewalks not always wide enough
- Too dark at some points of sidewalks
- Crosswalk markings
- Crosswalks are missing countdown signals
- Sidewalk not present on both sides of Dobie
- Poor visibility (i.e., driveways, vegetation)
- Bennett Rd has missing sidewalks (north side along the cemetery)
- No crosswalk on Dobie – east side
- Right-turning vehicles do not watch while turning

# What can we improve?

- Enhancements of crossings at minor places
- Expand timing and placement of crossing guards
- Make connections with the Delta Dental campus near Chippewa Middle School
  - Involve them in new programming
  - Create a non-smoking campus where kids are walking/biking to school near the building
- Add a midblock crossing
- Flag system for crossing as a program
- Wider sidewalks
- Add flashing light at Kinawa Middle School
- Improve trail
- Speed bumps
- Add signal countdown times
- Move large electrical box to allow more sidewalk space

# Planning Recommendations



Education



Encouragement



Engineering



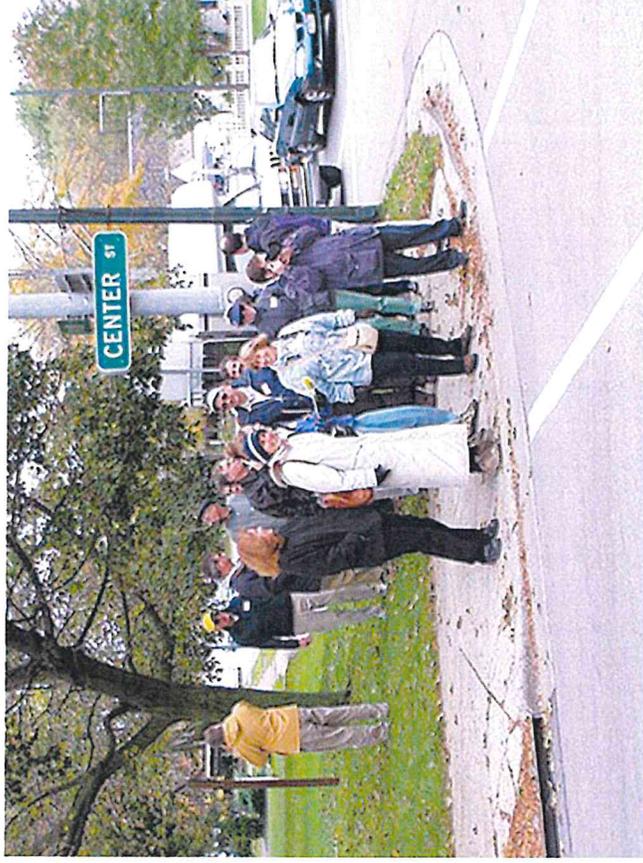
Engagement



Evaluation



Equity



# Education

## Publicize SRTS Content Through Local Media

### Concern

Lack of community awareness of pedestrian routes hazards, and behaviors around town



### Solution

Use local media outlets, popular venues, and social media to disseminate SRTS maps, schedules, announcements, and other materials



### Quick Steps

Distribute visuals among school and community members

## Start a Safe Driving Campaign

### Concern

Fast vehicle speeds within school zones pose hazards to students walking/biking to school

### Solution

Initiate a campaign to raise awareness of the rules of the school zones

### Quick Steps

Post notices and send reminders to students and parents about the campaign; Involve local police and broadcast public service announcements

# Education

## Walking safety curriculum

**Concern** Younger student are not aware of basic traffic safety rules or guidelines

**Solution** National Highway Traffic Safety Administration has a Child Pedestrian Safety Curriculum to help incorporate pedestrian safety into school curriculum

**Quick Steps** Utilize the “NHSTA Child Pedestrian Safety Curriculum” for lesson plans and orient the plans towards walking students



Photo: oregonsaferoutes.org

# Engagement

## Reach out to Neighbors to Introduce SRTS Routes

**Concern** Lack of community awareness of pedestrian routes near school

**Solution** Install informational signs regarding pedestrians, remote drop-offs, and on-street parking in highly visible locations around the neighborhood

**Quick Steps** Distribute flyers to homes near the school; Post awareness notices via school websites and newsletters

# Engagement

## Safety Patrol

### Concern

Traffic at school drop-off and pick-up times is congested and dangerous

### Solution

Implement safety patrol (can be upper-level students) to increase safety for students and traffic flow efficiency for parents. Host an "open house" for neighbors and parents to learn more about SRTS. Install informational signs in highly visible locations around the neighborhood

### Quick Steps

Create school zone signage that flashes during school hours to remind traffic to slow down; Motor vehicles should be approaching single file and releasing students directly to the sidewalk in the designated drop-off zone.; Assistants to help students exit and enter motor vehicles (Channels students directly from motor vehicle to pedestrian zone and pedestrian zone to motor vehicle; Parents, school personnel and safety patrol can all participate);



Photo: [guide.saferoutesinfo.org/](http://guide.saferoutesinfo.org/)

# Encouragement

## Carpooling

### Concern

Traffic at school drop-off and pick-up times is congested and dangerous

### Solution

Introduce and coordinate carpooling

### Quick Steps

Coordinate parents and students who live near each other; Advertise carpooling in school newsletter to engage interested parents

## Radar Signs

### Concern

It is difficult to enforce safe driving in areas where local law enforcement and crossing guards can't always be

### Solution

Install portable radar signs in areas prone to speeding vehicles where children frequently walk/bike

### Quick Steps

Contact local law enforcement and inform them to the SRTS program; Locate hot spots for speeders heading into pedestrian area; Install radar sign in a visible location



Photo: yourconcernews.com



Photo: wtn.com

# Encouragement

## Expand Crossing Guard System

**Concern** Students have difficulty crossing major streets around school

**Solution** More crossing guards on major roads along the routes

**Quick Steps** Determine the interest of potential crossing guards in the community; Assign crossing guards along the routes that are not currently stationed

## School Zone Expansion

**Concern** High speed traffic and aggressive drivers around the school

**Solution** Expand the school zone to slow traffic in a wider area around the school

**Quick Steps** Identify roads with high-speed traffic on the designated walking routes; Coordinate with local law enforcement

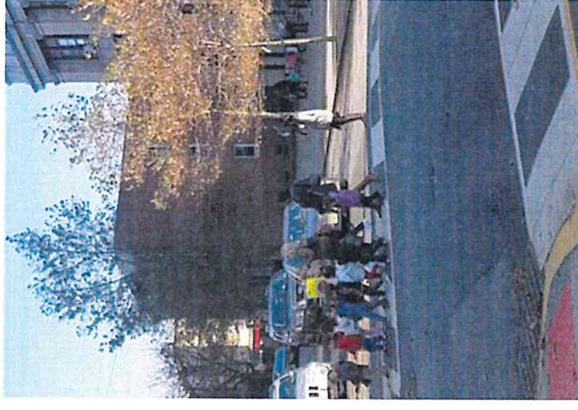


Photo: patch.com

# Encouragement

## Pedestrian Decoy Program

- Concern** Motorists drive a very high speeds on routes surrounding the school
- Solution** Institute a pedestrian decoy program with officers disguised as pedestrians to observe motorists failing to yield to pedestrians
- Quick Steps** Coordinate with the police department to begin the process

## Progressive Ticketing

- Concern** High speed traffic in school zones and lack of parking enforcement
- Solution** Initiate a progressive ticketing system
- Quick Steps** Establish community awareness of the issue; Announce the action that will be taken and why through flyers, signs, newspapers; official warnings from officers can also serve as a reminder



Photo: saferoutesmichigan.org

# Encouragement

## Corner Captains

**Concern** Crossing at busy intersections is dangerous

**Solution** Adopt corner captains

**Quick Steps** Determine the interest of potential corner captains in the community;  
Station them at busy and unmanned intersections around the school during arrival and departure hours

## Reflective gear

**Concern** Parents are concerned about students not being seen by motorists in the dark

**Solution** Encourage students to wear reflective gear walking/biking to school

**Quick Steps** Organize an in-school contest for students to compete in to create the most reflective backpacks/bikes;  
Incentivize students with a prize for the most decorated and safest creations

# Engineering Recommendations



**SAFE ROUTES TO SCHOOL  
INFRASTRUCTURE NEEDS  
CHIPPEWA AND KINAWA MIDDLE SCHOOLS  
OKEMOS, MI  
CONCEPT DRAWINGS**

**INDEX OF SHEETS**

1. Bennett Rd West of Okemos Rd
2. Intersection at Okemos Rd and Kinawa Rd
3. Alternative 1: In-Street Crosswalk Signs
4. Alternative 2: Median Island
5. Kinawa Rd East of Chippewa Middle School
6. Alternative 1: In-Street Crosswalk Signs
7. Alternative 2: RRFB Signs
8. Alternative 3: Median Island
9. Intersection of Okemos Rd and Heritage Ave
10. Intersection of Okemos Rd and Tamarack Dr
11. Belding to Donovan Pl at New Salem to Sandilewood Dr
12. Belding from Sandilewood Dr to Binghampton Dr
13. Hemmingway Dr and Crooked Creek Rd
14. Breckinridge Dr to Jonquil Ln
15. Yosemite Dr to Dobie Rd
16. Binghampton Dr from Shagbark Ln to Cimarron Dr
17. Tamarack Dr to Raleigh Dr from New Salem Ave to Sandilewood

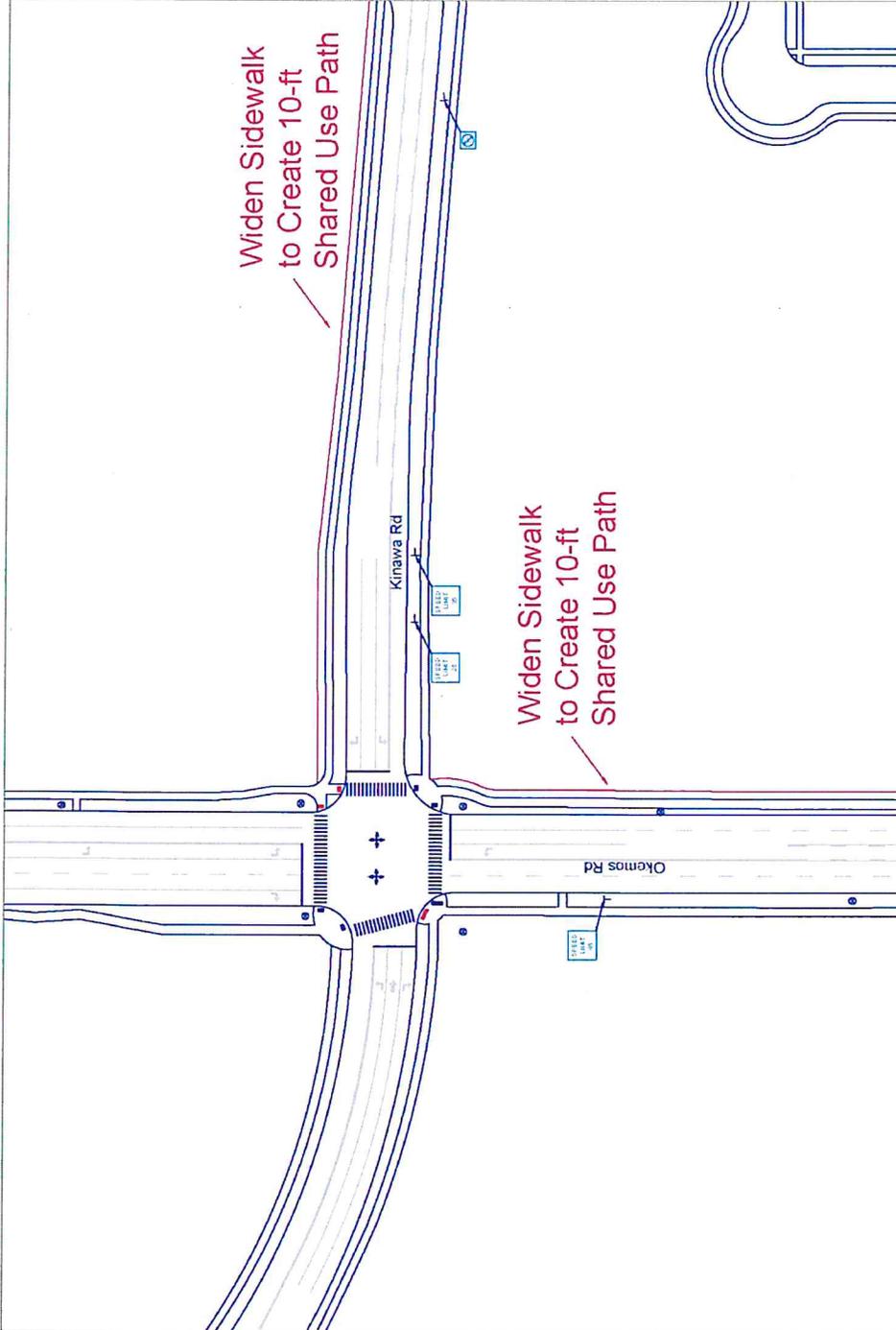
**MICHIGAN STATE** College of Engineering  
**U N I V E R S I T Y** Extension  
School of Planning, Design, and Construction

PREPARED BY: GRACIE CLARK

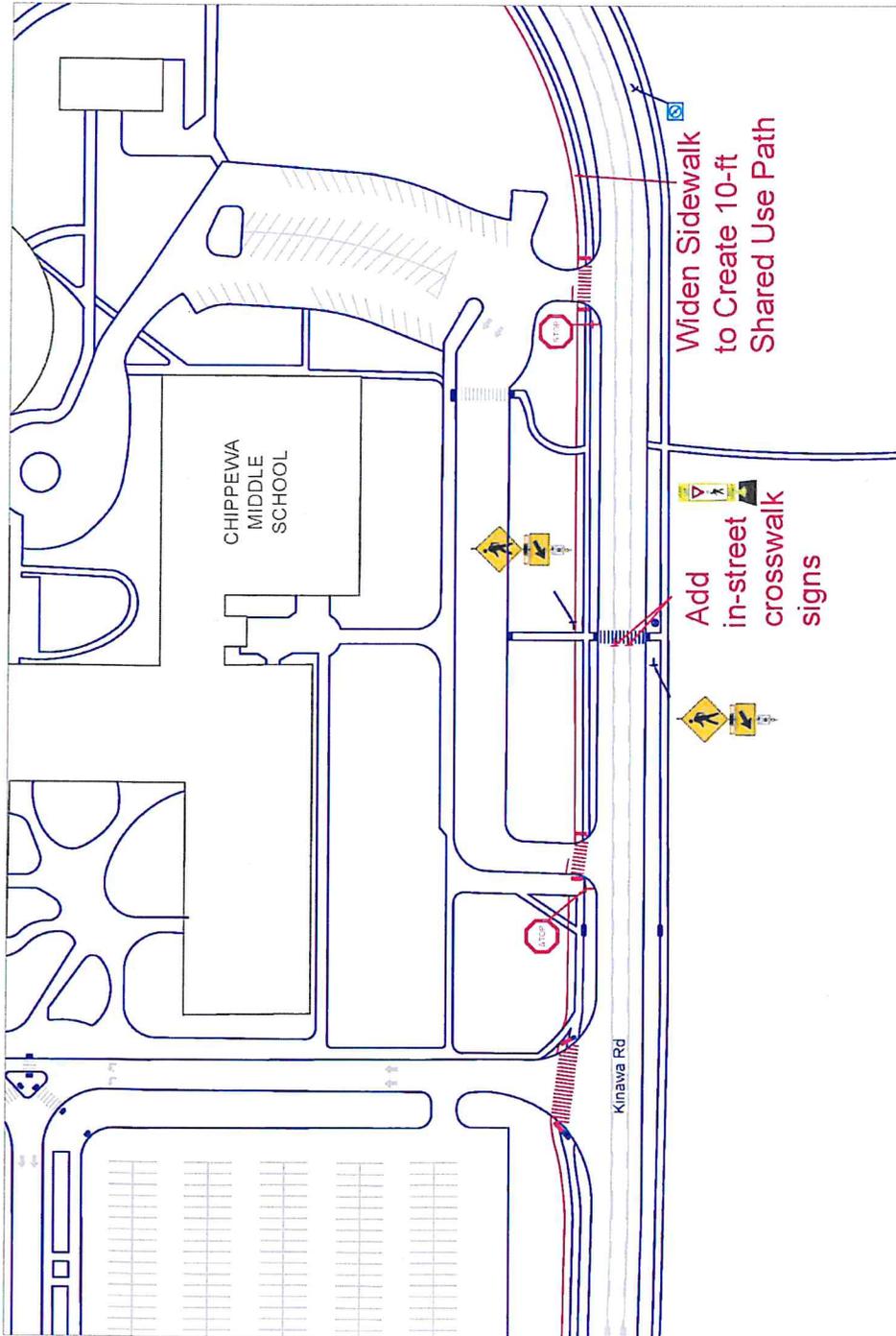
Date:  
November 3, 2022

NOTE: Non-fundable improvement may not be included.

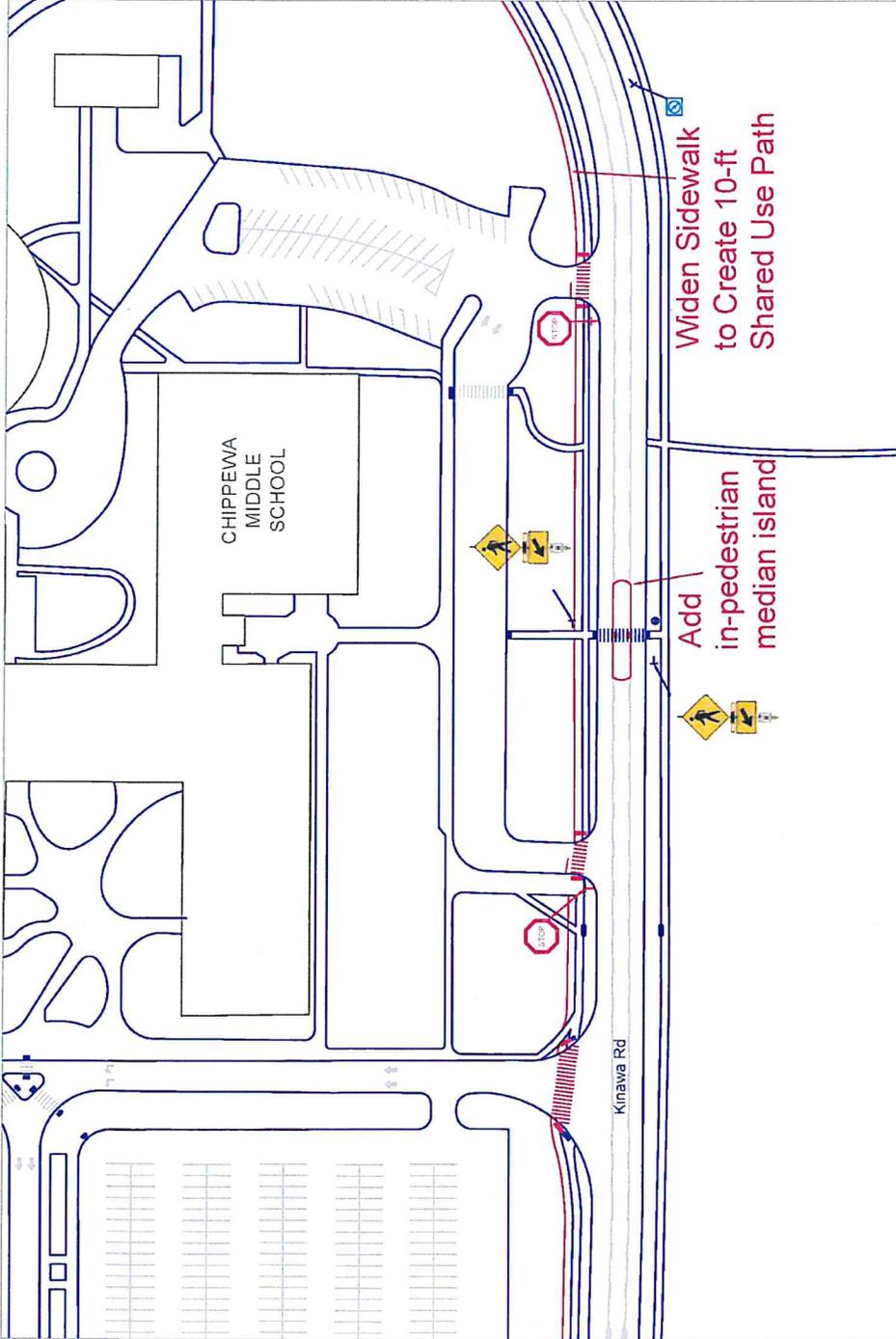




| Intersection at Okemos Rd and Kinawa Rd  |       |  |              |
|--|-------|--|--------------|
| MODIFY DATE  | SCALE | DRAWN BY:  | REVIEW DATE: |
| 11/3/2022  | 1:100 | G.C.   | T.G.         |
| <b>LEGEND</b><br>+ TRAFFIC SIGNAL<br>T TRAFFIC SIGN<br>+ STREET SIGN<br>ADA RAMP<br>LIGHT POLES<br>PROPOSED ADA RAMP |       | SIDEWALK RAMPS SHALL BE ADA COMPLIANT<br>GREEN DENOTES OBSTACLES AND FEATURES<br>GRAY DENOTES EXISTING PAVT MARKINGS<br>BLUE DENOTES EXISTING INFRASTRUCTURE<br>PINK DENOTES PROPOSED IMPROVEMENTS |              |
| PAGE NUMBER  |       | 2  |              |



|   |                           |  |                                 |   |                             |
|---|---------------------------|--|---------------------------------|---|-----------------------------|
| <p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li> TRAFFIC SIGNAL</li> <li> TRAFFIC SIGN</li> <li> STREET SIGN</li> <li> ADA RAMP</li> <li> LIGHT POLE</li> <li> PROPOSED ADA RAMP</li> </ul> |                           | <p><b>SIDEWALK RAMPS SHALL BE ADA COMPLIANT</b></p> <p>GREEN DENOTES OBSTACLES AND FEATURES</p> <p>GRAY DENOTES EXISTING PAVEMENT MARKINGS</p> <p>BLUE DENOTES EXISTING INFRASTRUCTURE</p> <p>PINK DENOTES PROPOSED IMPROVEMENTS</p> |                                 | <p><b>Kinawa Dr. at Chippewa School, Alternative 1: In-Street Crosswalk Signs</b></p> |                             |
| <p>MODIFY DATE</p> <p>11/9/2022</p>   | <p>SCALE</p> <p>1:100</p> | <p>DRAWN BY:</p> <p>G.C.</p>   | <p>REVIEWED BY:</p> <p>T.G.</p> | <p>REVIEW DATE:</p>   | <p>PAGE NUMBER</p> <p>3</p> |

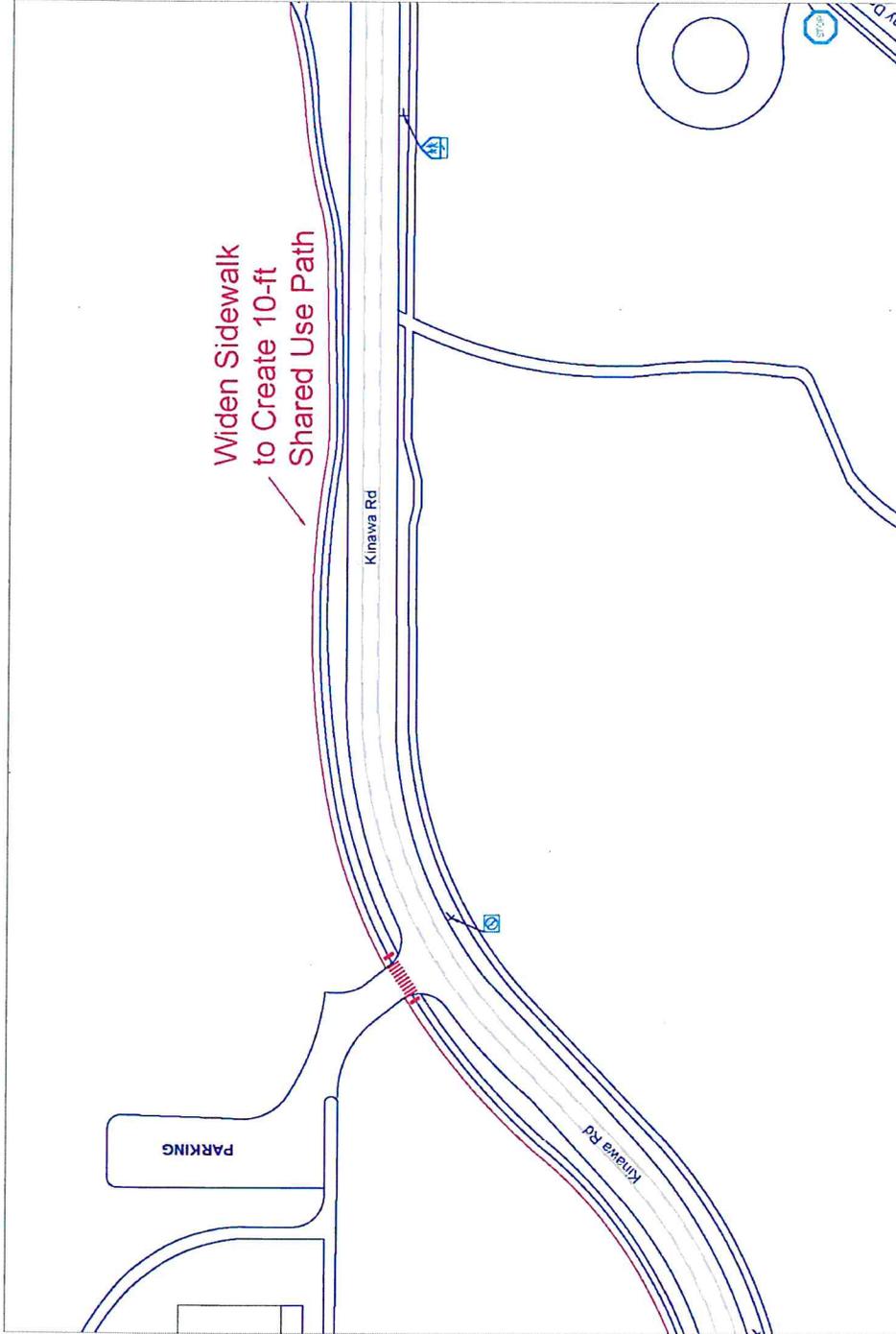


| Kinawa Dr at Chippewa School, Alternative 2: Add Median Island |       |           |              |
|--|-------|-----------|--------------|
| MODIFY DATE  | SCALE | DRAWN BY: | REVIEWED BY: |
| 11/3/2022  | 1:100 | G.C.      | T.G.         |
|  |       |           | PAGE NUMBER  |
|  |       |           | 4            |

**SIDEWALK RAMPS SHALL BE ADA COMPLIANT**  
**GREEN DENOTES OBSTACLES AND FEATURES**  
**GRAY DENOTES EXISTING PAINT MARKINGS**  
**BLUE DENOTES EXISTING INFRASTRUCTURE**  
**PINK DENOTES PROPOSED IMPROVEMENTS**

**LEGEND**

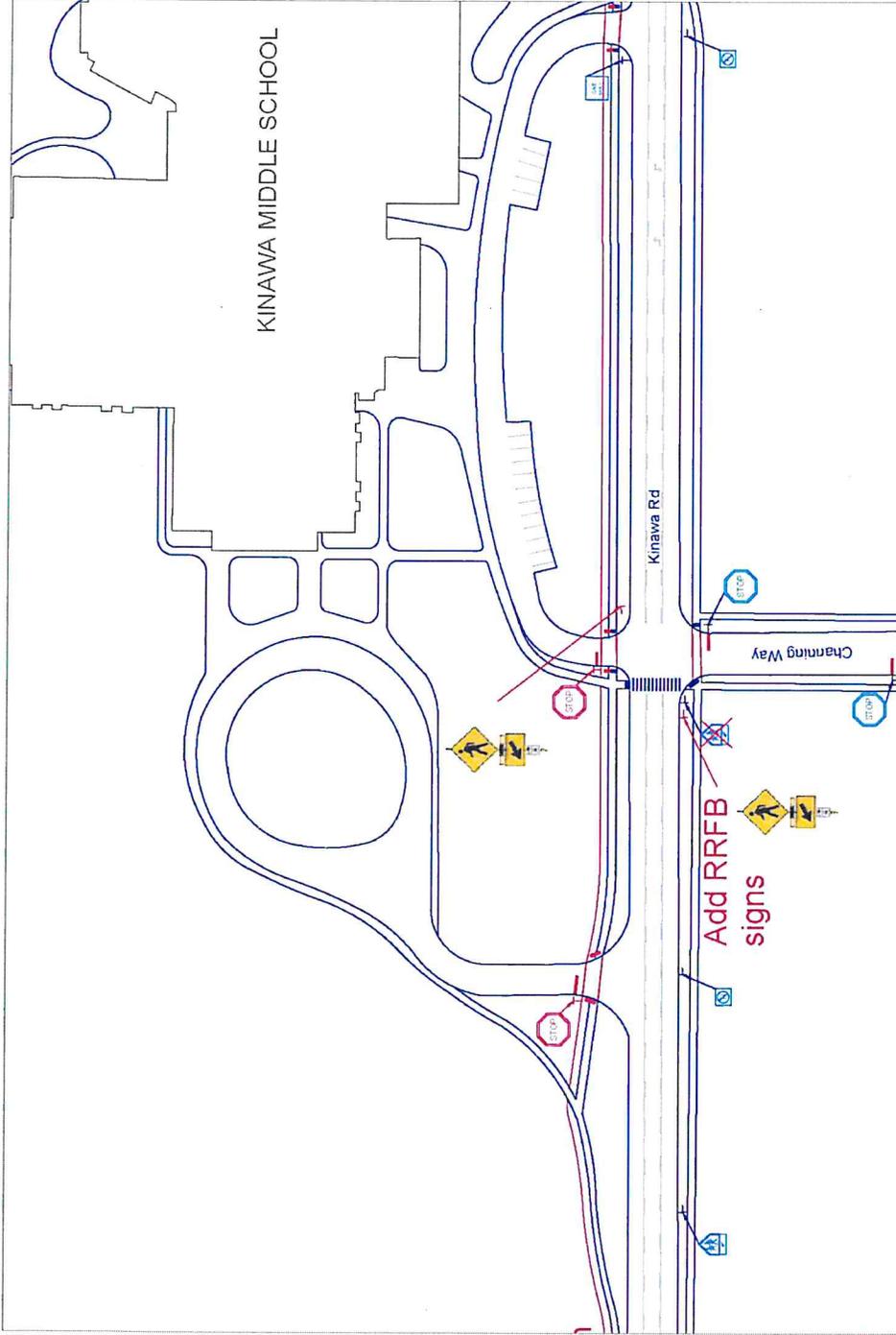
- ⊕ TRAFFIC SIGNAL
- T TRAFFIC SIGN
- ⊕ STREET SIGN
- ⊕ ADA RAMP
- ⊕ LIGHT POLE
- ⊕ PROPOSED PLUS MARK



Widen Sidewalk  
to Create 10-ft  
Shared Use Path

| Kinawa Rd East of Chippewa Middle School  |       |           |              |
|---|-------|-----------|--------------|
| MODIFY DATE   | SCALE | DRAWN BY: | REVIEWED BY: |
| 11/3/2022   | 1:100 | G.C.      | T.G.         |
| LEGEND<br>+ TRAFFIC SIGNAL<br>T TRAFFIC SIGN<br>+ STREET SIGN<br>ADA RAMP<br>LIGHT POLES<br>PROPOSED ADA RAMP   |       |           | PAGE NUMBER  |
| SIDEWALK RAMPS SHALL BE ADA COMPLIANT<br>GREEN DENOTES OBSTACLES AND FEATURES<br>GRAY DENOTES EXISTING PAVT. MARKINGS<br>BLUE DENOTES EXISTING INFRASTRUCTURE<br>PINK DENOTES PROPOSED IMPROVEMENTS |       |           | 5            |





**LEGEND**

- ⊕ TRAFFIC SIGNAL
- T TRAFFIC SIGN
- + STREET SIGN
- ⊞ ADA RAMP
- ⊞ LIGHT POLES
- ⊞ PROPOSED ADA RAMP

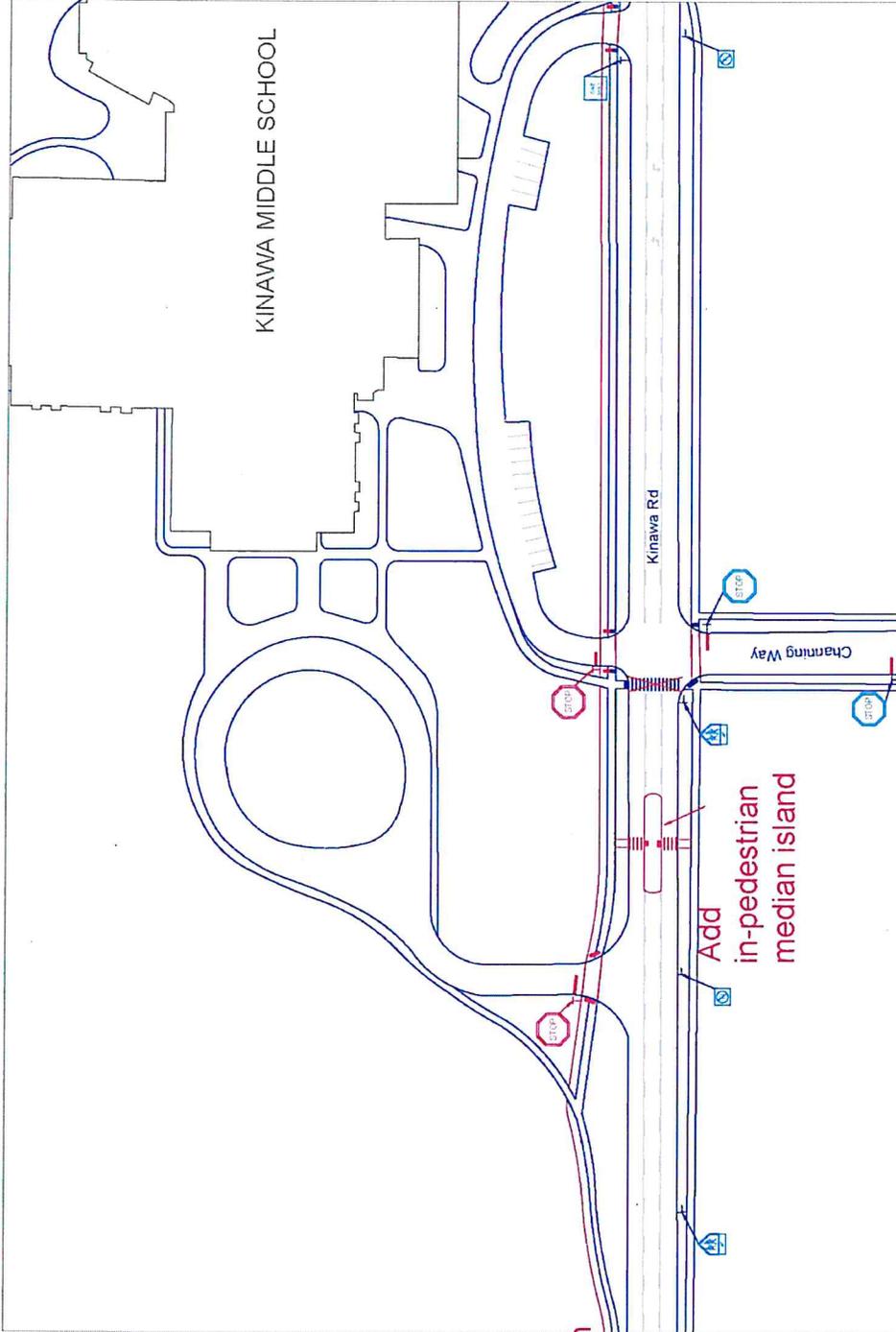
**SIDEWALK RAMP SHALL BE ADA COMPLIANT**  
**GREEN DENOTES OBSTACLES AND FEATURES**  
**GRAY DENOTES EXISTING PAVMT MARKINGS**  
**BLUE DENOTES EXISTING INFRASTRUCTURE**  
**PINK DENOTES PROPOSED IMPROVEMENTS**

**N**

**Add RRFB signs**

**Kinawa Dr at Kinawa School, Alternative 2: Add RRFB**

| MODIFY DATE | SCALE | DRAWN BY: | REVIEWED BY: | REVIEW DATE: | PAGE NUMBER |
|-------------|-------|-----------|--------------|--------------|-------------|
| 11/3/2022   | 1:100 | G.C.      | T.G.         |              | 7           |

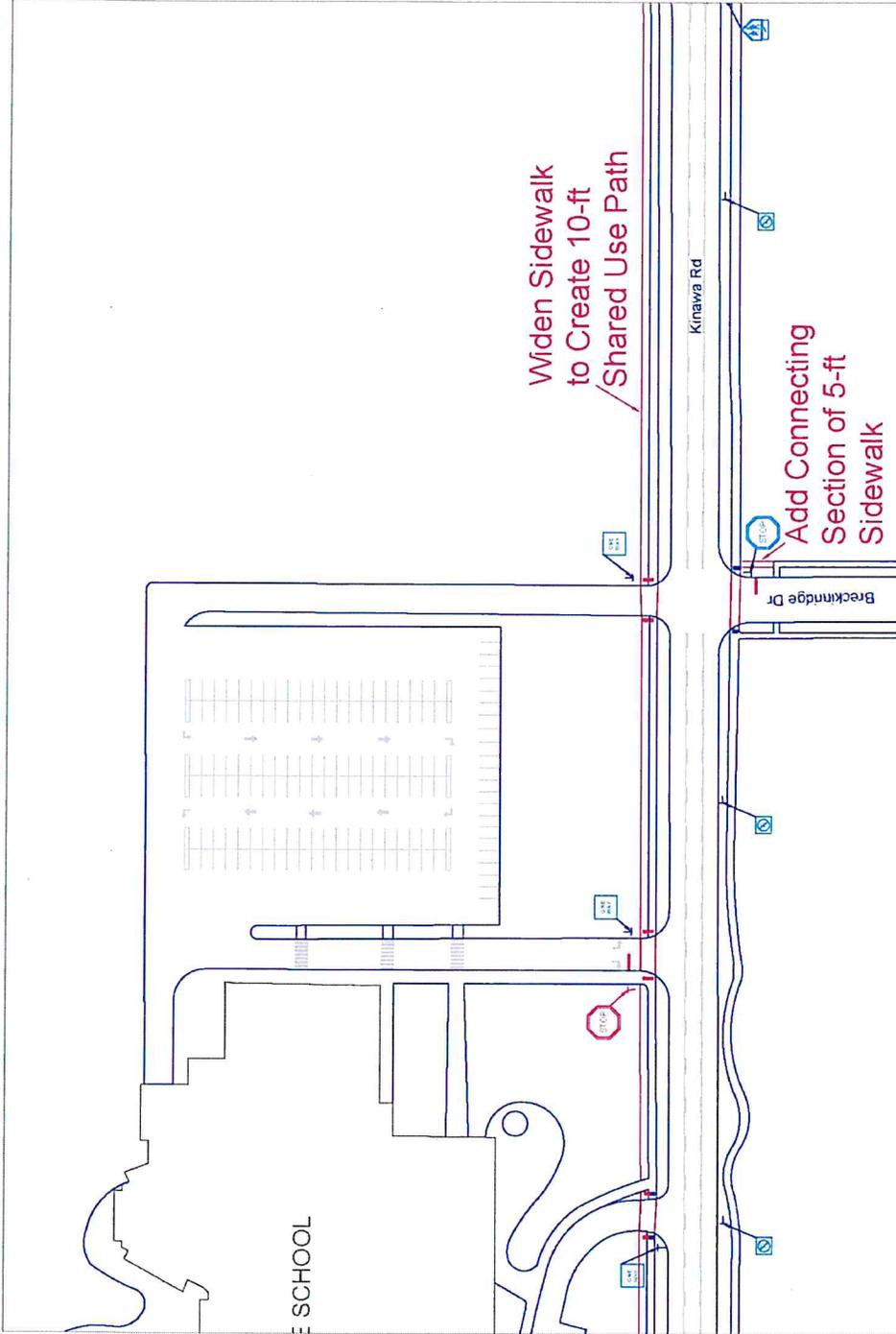


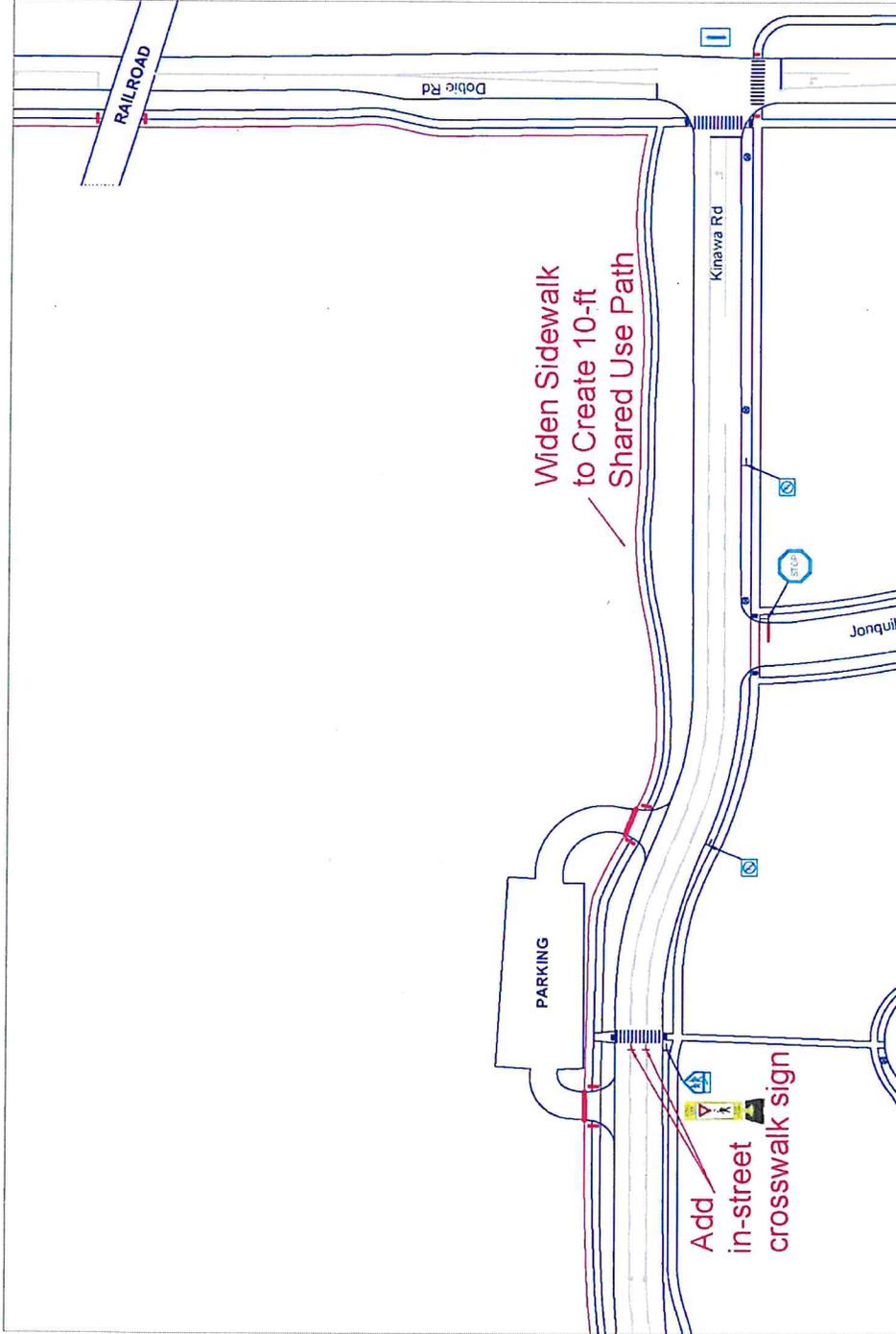
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| +      | TRAFFIC SIGNAL    | 1:100 | G.C. | T.G.      |  |              |  |              |  |             | 8 |
| T      | TRAFFIC SIGN      |       |      |           |  |              |  |              |  |             |   |
| +      | STREET SIGN       |       |      |           |  |              |  |              |  |             |   |
| +      | ADA RAMP          |       |      |           |  |              |  |              |  |             |   |
| +      | LIGHT POLES       |       |      |           |  |              |  |              |  |             |   |
| +      | PROPOSED ADA RAMP |       |      |           |  |              |  |              |  |             |   |

**SIDEWALK RAMPS SHALL BE ADA COMPLIANT**  
**GREEN DENOTES OBSTACLES AND FEATURES**  
**GRAY DENOTES EXISTING PAVT MARKINGS**  
**BLUE DENOTES EXISTING INFRASTRUCTURE**  
**PINK DENOTES PROPOSED IMPROVEMENTS**

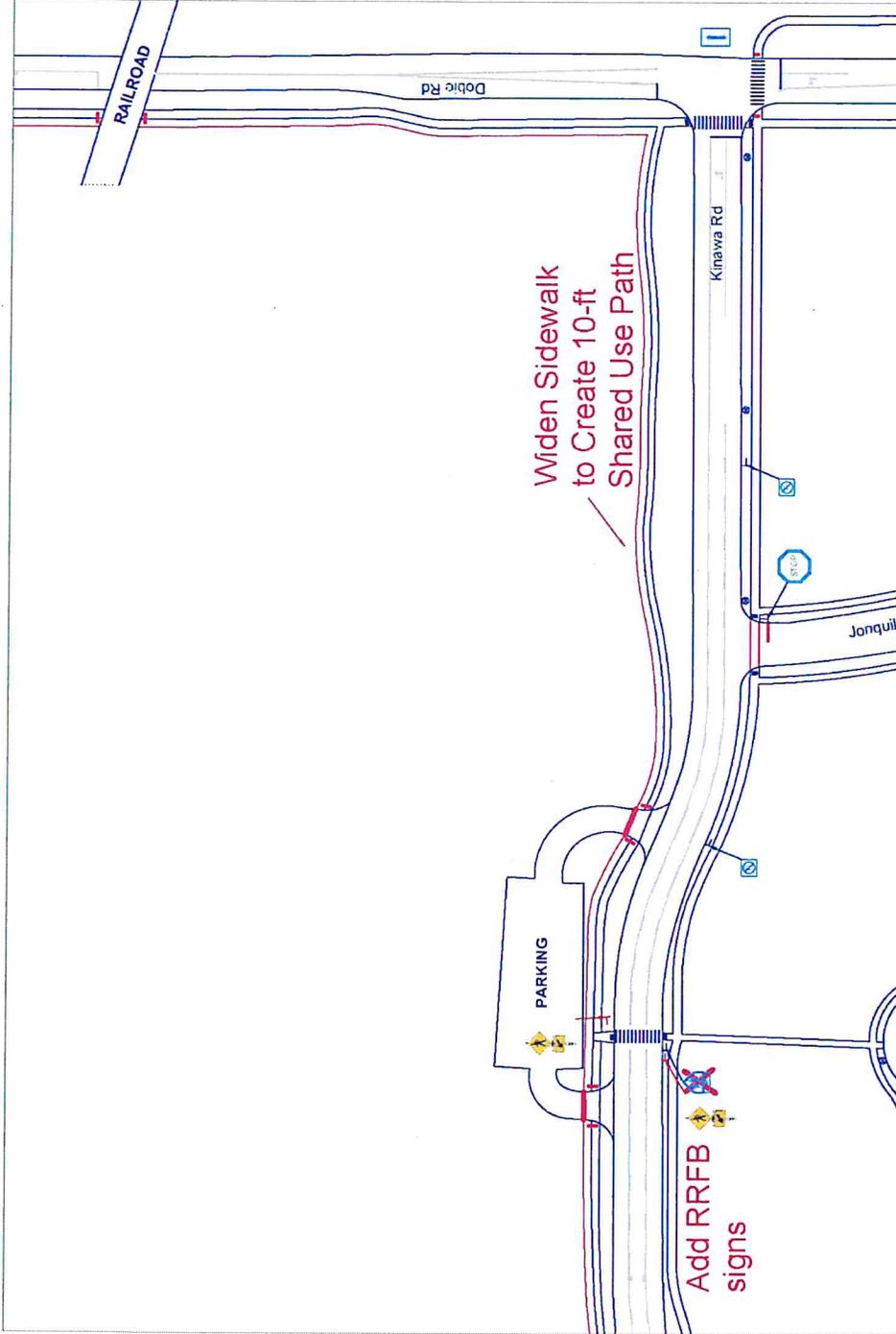


**Kinawa Dr at Kinawa School, Alternative 3: Add Median Island**



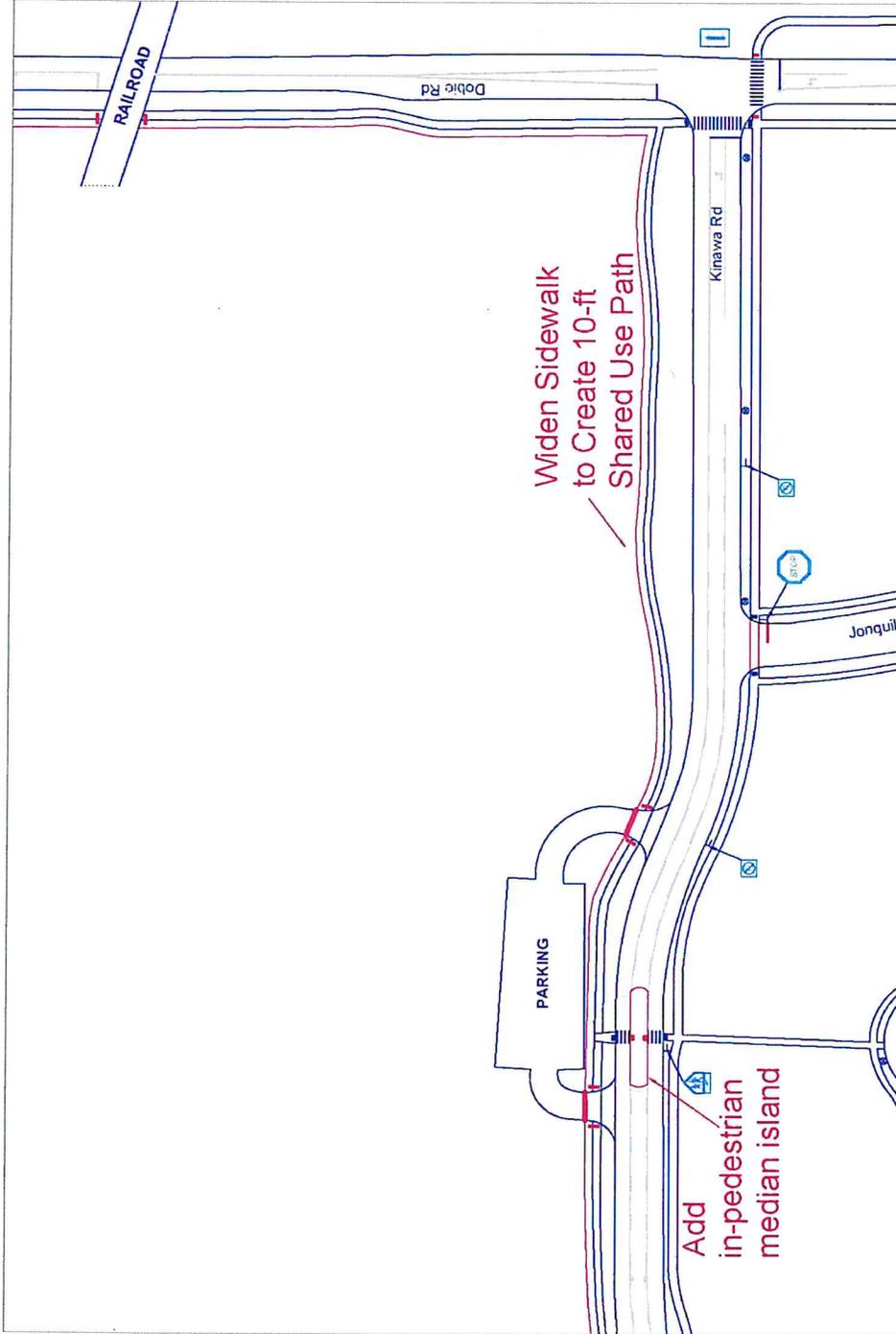


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|--|--------------|--|---------------------|--|--------------------|
| <p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>⊕ TRAFFIC SIGNAL</li> <li>T TRAFFIC SIGN</li> <li>+ STREET SIGN</li> <li>⊞ ADA RAMP</li> <li>⊞ POWER POLES</li> <li>⊞ PROPOSED ADA RAMP</li> </ul> |              | <p><b>SIDEWALK RAMPS SHALL BE ADA COMPLIANT</b></p> <p>GREEN DENOTES OBSTACLES AND FEATURES</p> <p>GRAY DENOTES EXISTING PAVEMENT MARKINGS</p> <p>BLUE DENOTES EXISTING INFRASTRUCTURE</p> <p>PINK DENOTES PROPOSED IMPROVEMENTS</p> |                     | <p><b>Kinawa Dr. west of Dobie, Alternative 1: Add In-Street Crosswalk signs</b></p> |                    |
| <p>MODIFY DATE</p>   | <p>SCALE</p> | <p>DRAWN BY:</p>   | <p>REVIEWED BY:</p> | <p>REVIEW DATE:</p>  | <p>PAGE NUMBER</p> |
| <p>11/3/2022</p>   | <p>1:100</p> | <p>G.C.</p>  | <p>T.G.</p>         | <p></p>  | <p>10</p>          |

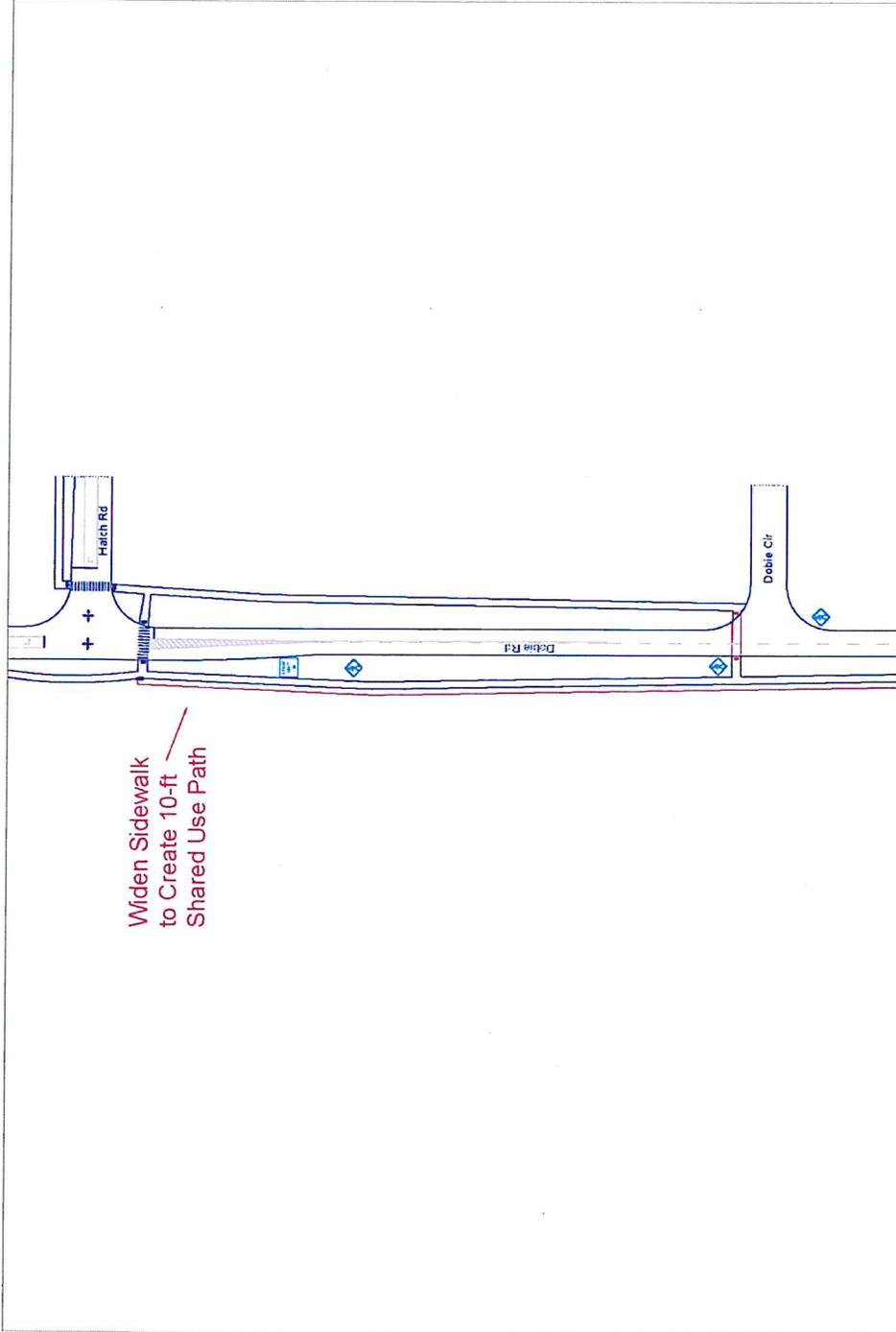


| Kinawa Dr. west of Dobie, Alternative 2: Add RRFB   |       |           |  |
|---|-------|-----------|--|
| MODIFY DATE   | SCALE | DRAWN BY: | REVIEWED BY:                                     |
| 11/3/2022   | 1:100 | G.C.      | T.G.   |
| <p><b>SIDEWALK RAMPS SHALL BE ADA COMPLIANT</b><br/> <b>GREEN DENOTES OBSTACLES AND FEATURES</b><br/> <b>GRAY DENOTES EXISTING PAINT MARKINGS</b><br/> <b>BLUE DENOTES EXISTING INFRASTRUCTURE</b><br/> <b>PINK DENOTES PROPOSED IMPROVEMENTS</b></p> |       |           | <p>REVIEW DATE: _____</p> <p>PAGE NUMBER: 11</p> |

- LEGEND**
- + TRAFFIC SIGNAL
  - T TRAFFIC SIGN
  - + STREET SIGN
  - ADA RAMP
  - ⊗ POWER POLES
  - ⊗ PROPOSED UTILITY



| LEGEND   |                   | SCALE |      | REVIEWED BY: |  | REVIEW DATE: |  | PAGE NUMBER |  |
|--|-------------------|-------|------|--------------|--|--------------|--|-------------|--|
| +  | TRAFFIC SIGNAL    | 1:100 | G.C. | T.G.         |  |              |  |             |  |
| T  | TRAFFIC SIGN      |       |      |              |  |              |  |             |  |
| +  | STREET SIGN       |       |      |              |  |              |  |             |  |
| +  | ADA RAMP          |       |      |              |  |              |  |             |  |
| +  | POWER POLES       |       |      |              |  |              |  |             |  |
| +  | PROPOSED ADA RAMP |       |      |              |  |              |  |             |  |
| <p><b>SIDEWALK RAMPS SHALL BE ADA COMPLIANT</b><br/> <b>GREEN DENOTES OBSTACLES AND FEATURES</b><br/> <b>GRAY DENOTES EXISTING PAVT MARKINGS</b><br/> <b>BLUE DENOTES EXISTING INFRASTRUCTURE</b><br/> <b>PINK DENOTES PROPOSED IMPROVEMENTS</b></p> |                   |       |      |              |  |              |  |             |  |
| <p><b>Kinawa Dr. west of Dobie, Alternative 3: Add Median Island</b></p>   |                   |       |      |              |  |              |  |             |  |
| MODIFY DATE  |                   | SCALE |      | DRAWN BY:    |  | REVIEWED BY: |  | PAGE NUMBER |  |
| 11/3/2022  |                   | 1:100 |      | G.C.         |  | T.G.         |  | 12          |  |

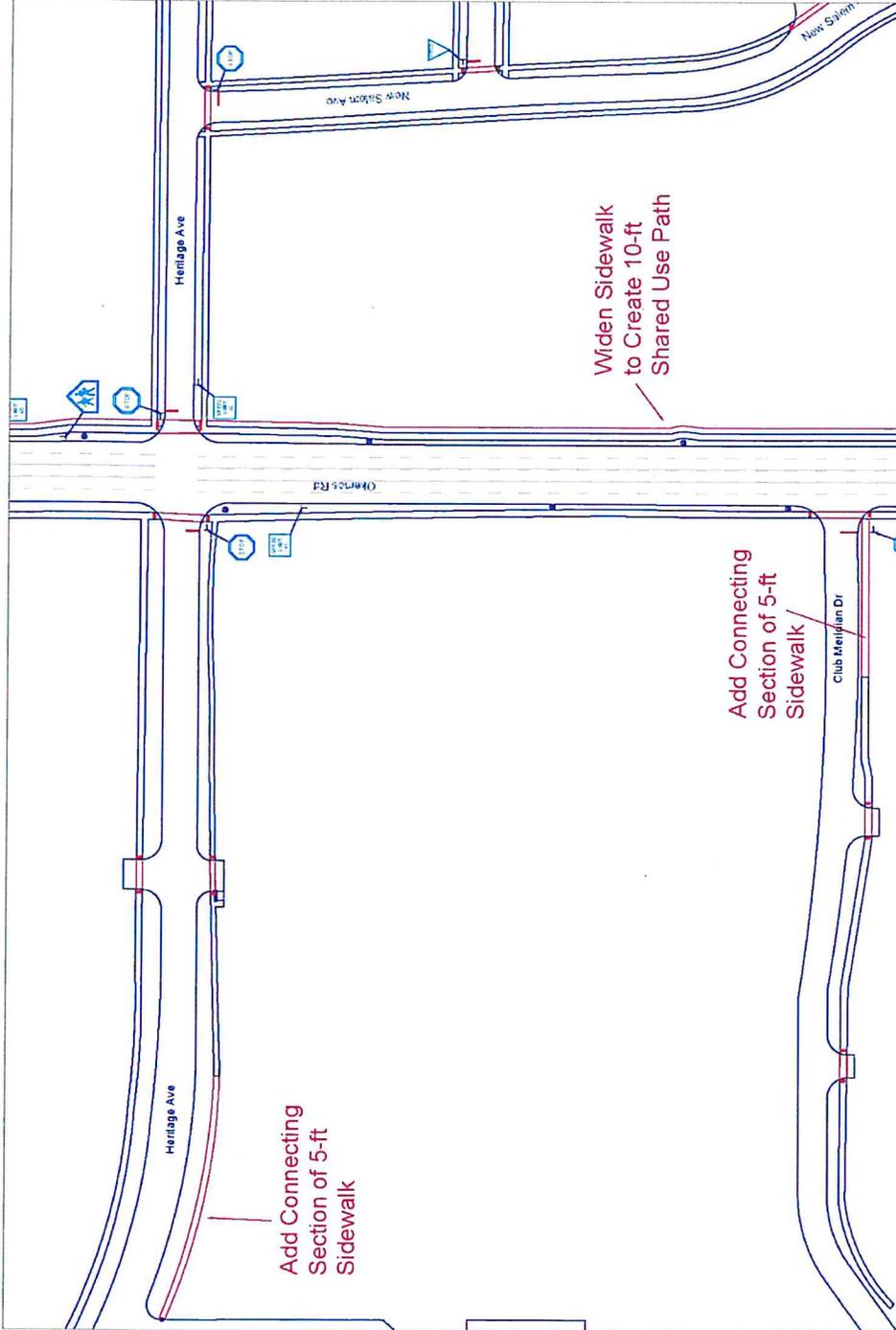


Widen Sidewalk  
to Create 10-ft  
Shared Use Path

| Intersection of Dobie Rd and Hatch Rd |       |           |              |              |             |
|---------------------------------------|-------|-----------|--------------|--------------|-------------|
| MODIFY DATE                           | SCALE | DRAWN BY: | REVIEWED BY: | REVIEW DATE: | PAGE NUMBER |
| 11/3/2022                             | 1:130 | G.C.      | T.G.         |              | 13          |

|  |   |
|--|---|
| <p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>⊕ TRAFFIC SIGNAL</li> <li>T TRAFFIC SIGN</li> <li>+ STREET SIGN</li> <li>⊞ ADA RAMP</li> <li>⊞ LIGHT POLES</li> <li>⊞ PROPOSED ADA RAMP</li> </ul> | <p>SIDEWALK RAMPS SHALL BE ADA COMPLIANT<br/>           GREEN DENOTES OBSTACLES AND FEATURES<br/>           GRAY DENOTES EXISTING PAVT MARKINGS<br/>           BLUE DENOTES EXISTING INFRASTRUCTURE<br/>           PINK DENOTES PROPOSED IMPROVEMENTS</p> |
|--|---|



| LEGEND |                       | SCALE |      | DRAWN BY: |    | REVIEWED BY: |  | REVIEW DATE: |  | PAGE NUMBER |  |
|--------|-----------------------|-------|------|-----------|----|--------------|--|--------------|--|-------------|--|
| +      | TRAFFIC SIGNAL        | 1:130 | G.C. | T.G.      | 14 |              |  |              |  |             |  |
| T      | TRAFFIC SIGN          |       |      |           |    |              |  |              |  |             |  |
| +      | STREET SIGN           |       |      |           |    |              |  |              |  |             |  |
| +      | ADA RAMP              |       |      |           |    |              |  |              |  |             |  |
| +      | LIGHT POLES           |       |      |           |    |              |  |              |  |             |  |
| +      | PROPOSED IMPROVEMENTS |       |      |           |    |              |  |              |  |             |  |

**SIDEWALK RAMPS SHALL BE ADA COMPLIANT**  
 GREEN DENOTES OBSTACLES AND FEATURES  
 GRAY DENOTES EXISTING PAVT MARKINGS  
 BLUE DENOTES EXISTING INFRASTRUCTURE  
 PINK DENOTES PROPOSED IMPROVEMENTS

**Intersection of Okemos Rd and Heritage Ave**

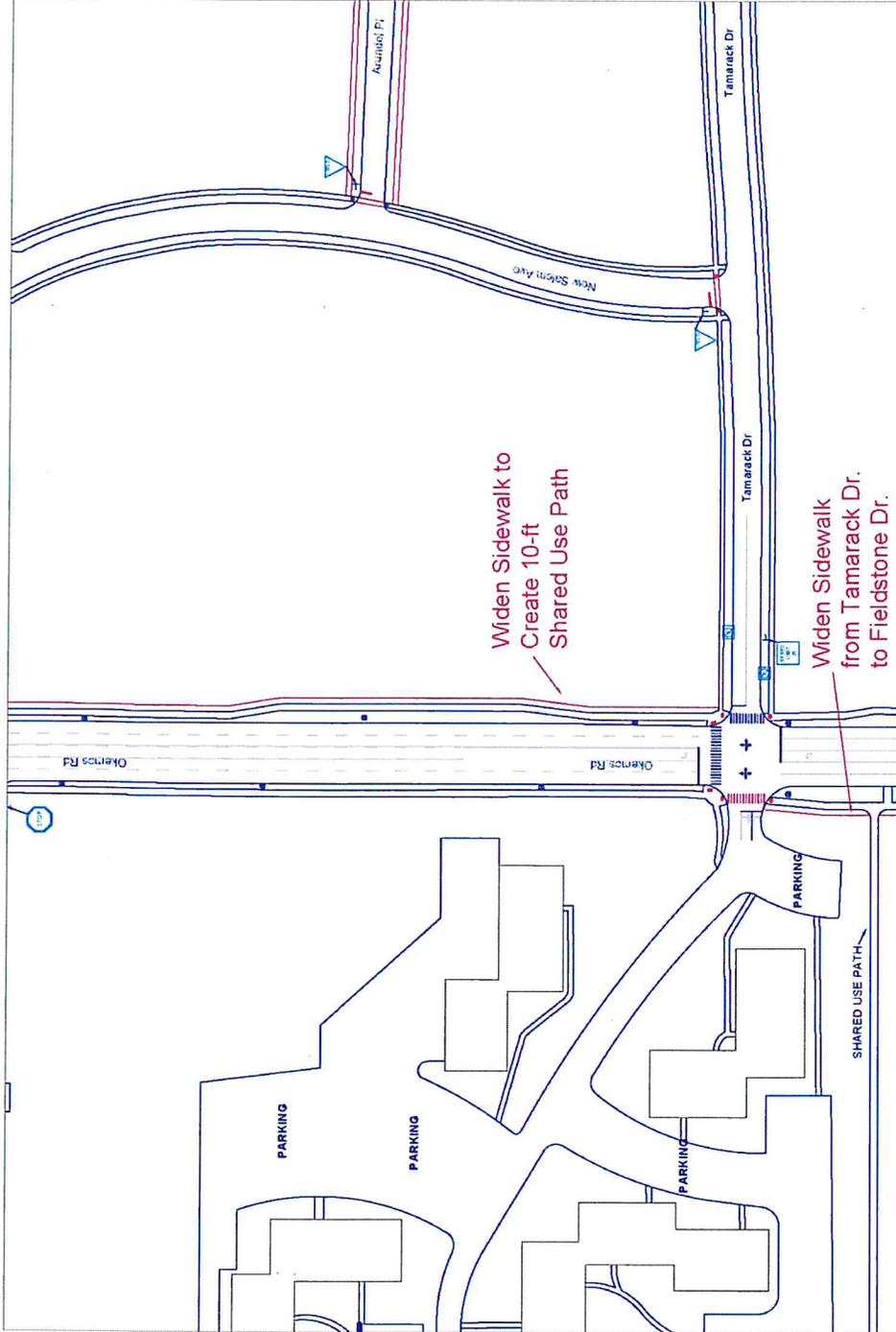
11/3/2022

1:130

G.C.

T.G.

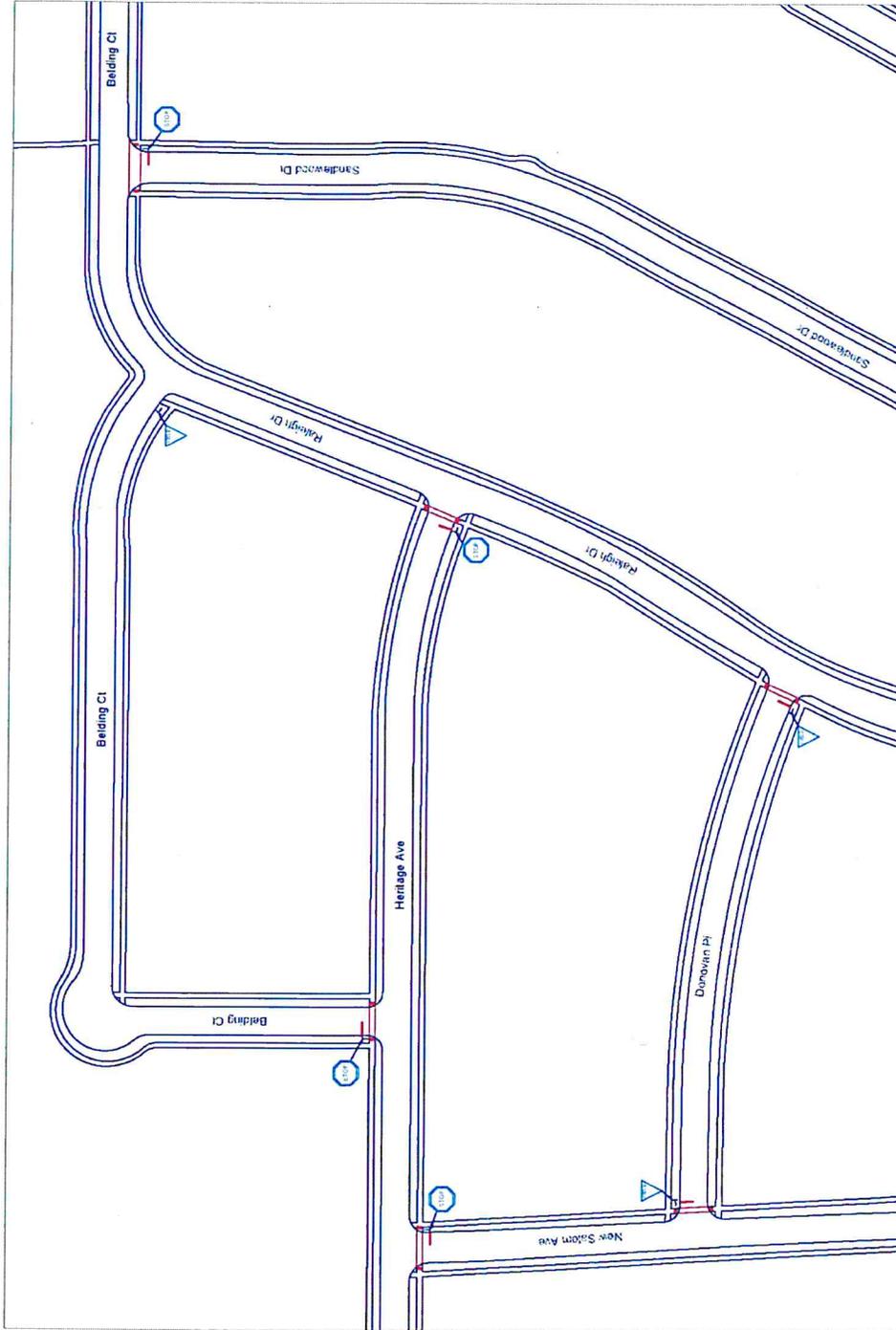
14



| Intersection of Okemos Rd and Tamarack Dr |       |           |              |              |             |
|---|-------|-----------|--------------|--------------|-------------|
| MODIFY DATE                               | SCALE | DRAWN BY: | REVIEWED BY: | REVIEW DATE: | PAGE NUMBER |
| 11/3/2022                                 | 1:130 | G.C.      | T.G.         |              | 15          |

**SIDEWALK RAMPS SHALL BE ADA COMPLIANT**  
**GREEN DENOTES OBSTACLES AND FEATURES**  
**GRAY DENOTES EXISTING PAINT MARKINGS**  
**BLUE DENOTES EXISTING INFRASTRUCTURE**  
**PINK DENOTES PROPOSED IMPROVEMENTS**

**LEGEND**  
 + TRAFFIC SIGNAL  
 T TRAFFIC SIGN  
 + STREET SIGN  
 ADA RAMP  
 LIGHT POLES  
 PROPOSED ADA RAMP



**LEGEND**

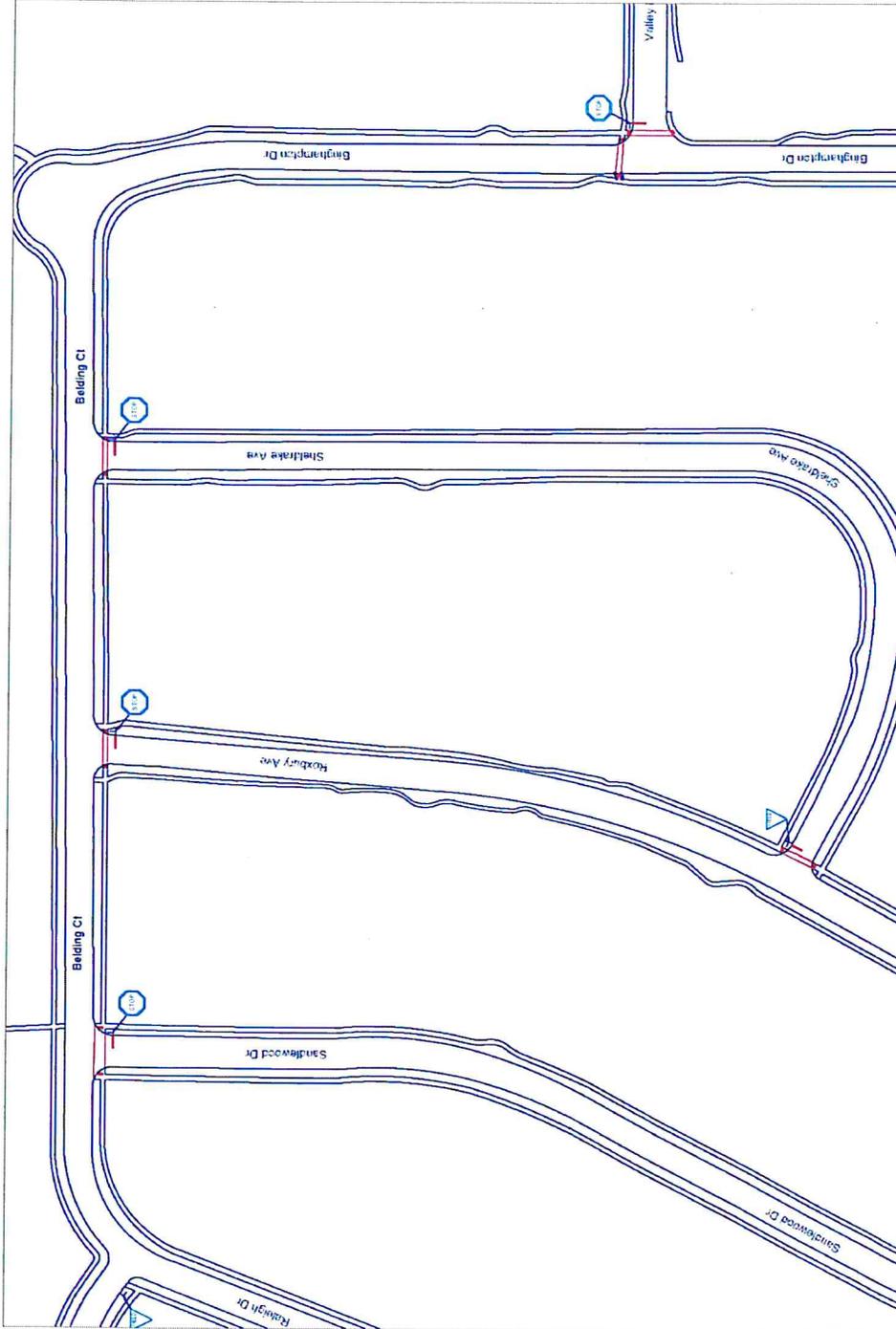
- + TRAFFIC SIGNAL
- T TRAFFIC SIGN
- + STREET SIGN
- ADA RAMP
- ⊗ LIGHT POLES
- PROPOSED ADA RAMP

**SIDEWALK RAMPS SHALL BE ADA COMPLIANT**  
**GREEN DENOTES OBSTACLES AND FEATURES**  
**GRAY DENOTES EXISTING IMPV. MARKINGS**  
**BLUE DENOTES EXISTING INFRASTRUCTURE**  
**PINK DENOTES PROPOSED IMPROVEMENTS**

N 

**Belding to Donovan PI at New Salem to Sandwood Dr**

| MODIFY DATE | SCALE | DRAWN BY: | REVIEWED BY: | REVIEW DATE: | PAGE NUMBER |
|-------------|-------|-----------|--------------|--------------|-------------|
| 11/3/2022   | 1:130 | G.C.      | T.G.         |              | 16          |



**LEGEND**

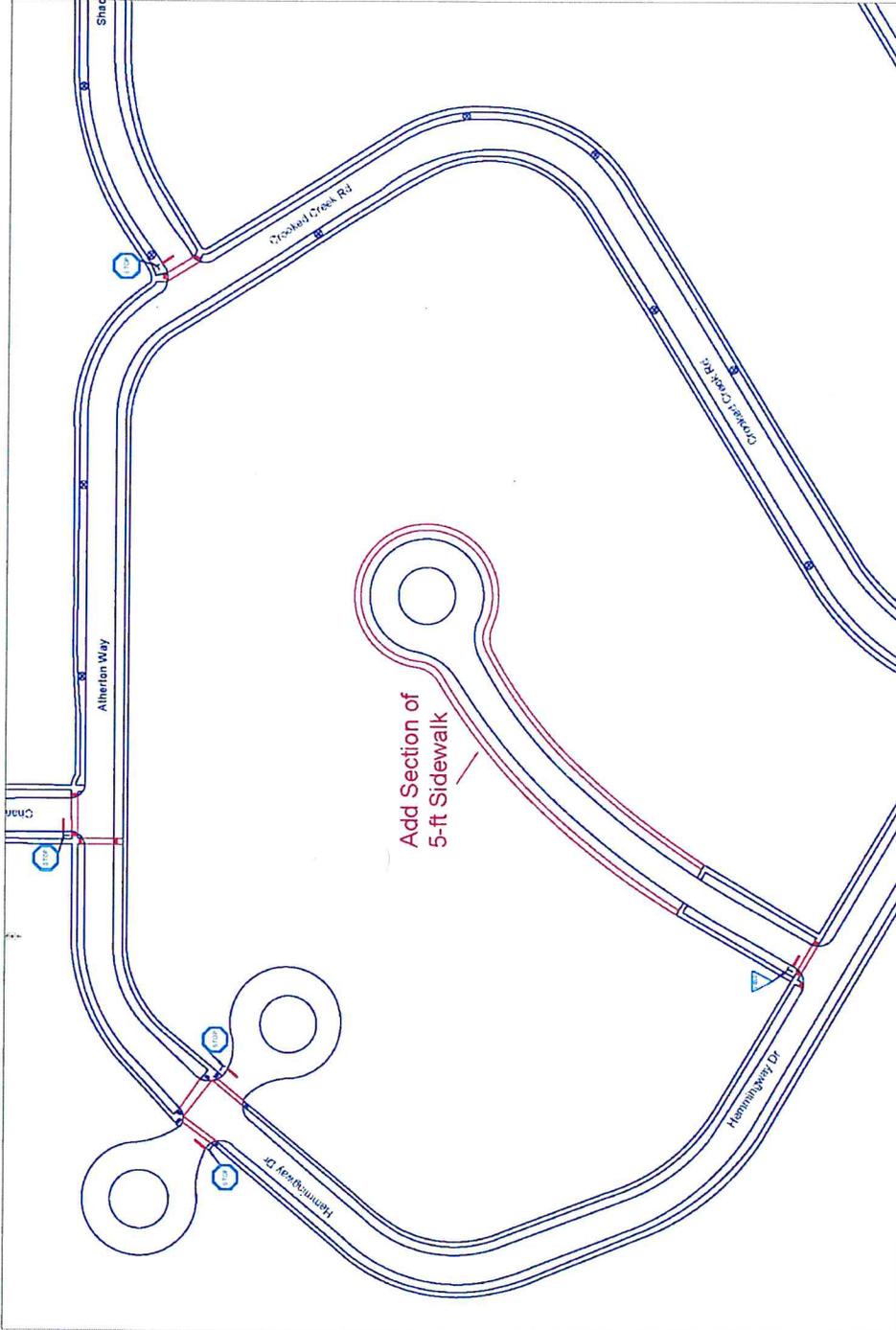
- ⊕ TRAFFIC SIGNAL
- T TRAFFIC SIGN
- + STREET SIGN
- ⊕ ADA RAMP
- ⊕ LIGHT POLES
- ⊕ PROPOSED ADA RAMP

**SIDEWALK RAMP SHALL BE ADA COMPLIANT**  
**GREEN DENOTES OBSTACLES AND FEATURES**  
**GRAY DENOTES EXISTING PAVT MARKINGS**  
**BLUE DENOTES EXISTING INFRASTRUCTURE**  
**PINK DENOTES PROPOSED IMPROVEMENTS**

N

**Belding from Sandwood Dr to Binghamton Dr**

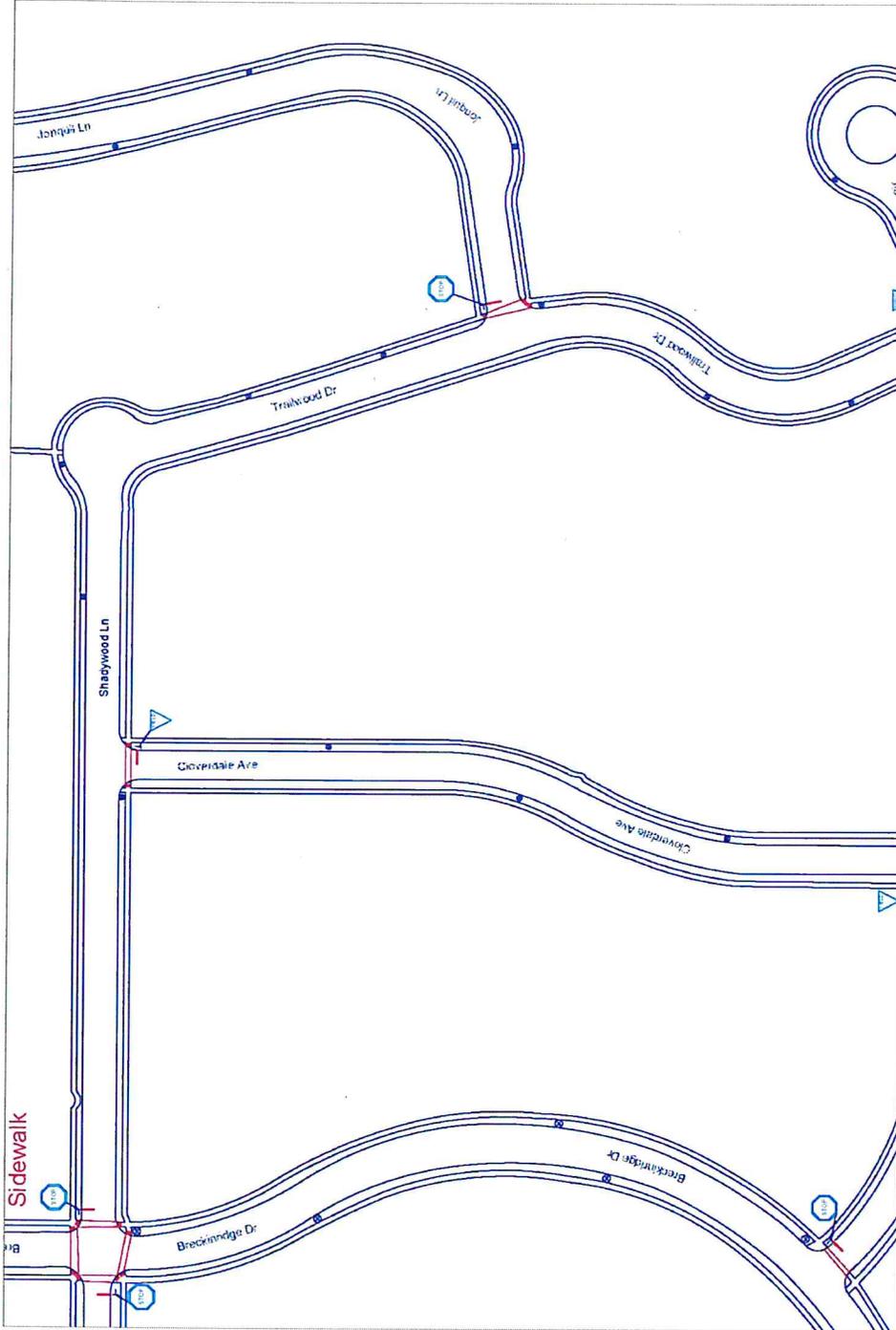
| MODIFY DATE | SCALE | DRAWN BY: | REVIEWED BY: | REVIEW DATE: | PAGE NUMBER |
|-------------|-------|-----------|--------------|--------------|-------------|
| 11/3/2022   | 1:130 | G.C.      | T.G.         |              | 17          |



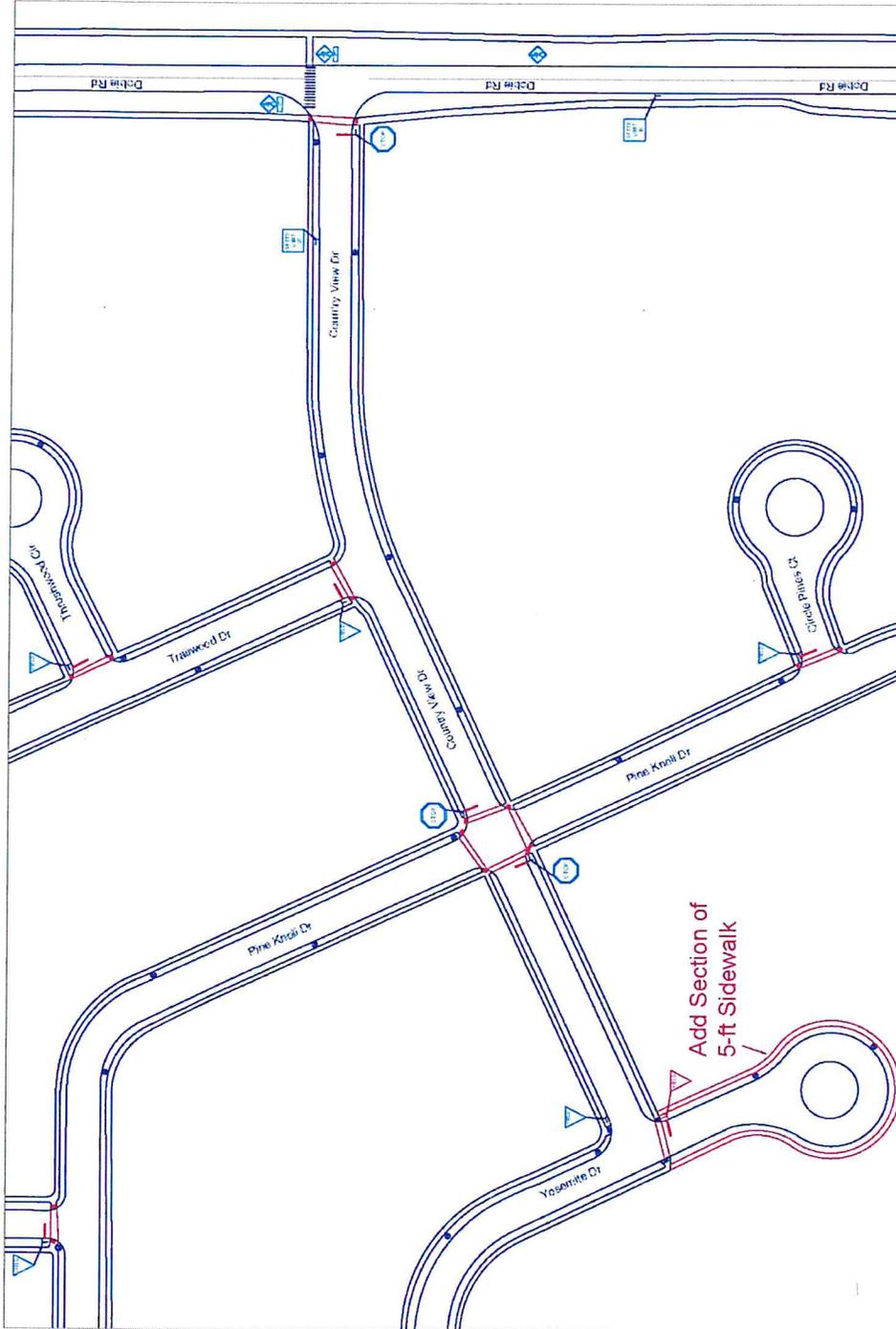
| LEGEND |                   | Hemmingway Dr and Crooked Creek Rd |           |              |             |
|--------|-------------------|------------------------------------|-----------|--------------|-------------|
| +      | TRAFFIC SIGNAL    | SCALE                              | DRAWN BY: | REVIEWED BY: | PAGE NUMBER |
| T      | TRAFFIC SIGN      | 1:130                              | G.C.      | T.G.         | 18          |
| +      | STREET SIGN       | MODIFY DATE                        |           |              |             |
| +      | ADA RAMP          | 11/3/2022                          |           |              |             |
| ⊕      | LIGHT POLES       |                                    |           |              |             |
| ⊕      | PROPOSED ADA RAMP |                                    |           |              |             |

**SIDEWALK RAMPS SHALL BE ADA COMPLIANT**  
**GREEN DENOTES OBSTACLES AND FEATURES**  
**GRAY DENOTES EXISTING PAVEMENT MARKINGS**  
**BLUE DENOTES EXISTING INFRASTRUCTURE**  
**PINK DENOTES PROPOSED IMPROVEMENTS**





| Breckinridge Dr to Jonquil Ln   |       |           |              |
|---|-------|-----------|--------------|
| MODIFY DATE   | SCALE | DRAWN BY: | REVIEW DATE: |
| 11/2/2022   | 1:130 | G.C.      | T.G.         |
| <p><b>SIDEWALK RAMP</b> SHALL BE ADA COMPLIANT<br/> <b>GREEN</b> DENOTES OBSTACLES AND FEATURES<br/> <b>GRAY</b> DENOTES EXISTING PAVT MARKINGS<br/> <b>BLUE</b> DENOTES EXISTING INFRASTRUCTURE<br/> <b>PINK</b> DENOTES PROPOSED IMPROVEMENTS</p> |       |           | PAGE NUMBER  |
|   |       |           | 19           |



**LEGEND**

- + TRAFFIC SIGNAL
- T TRAFFIC SIGN
- + STREET SIGN
- ADA RAMP
- LIGHT POLES
- PROPOSED ADA RAMP

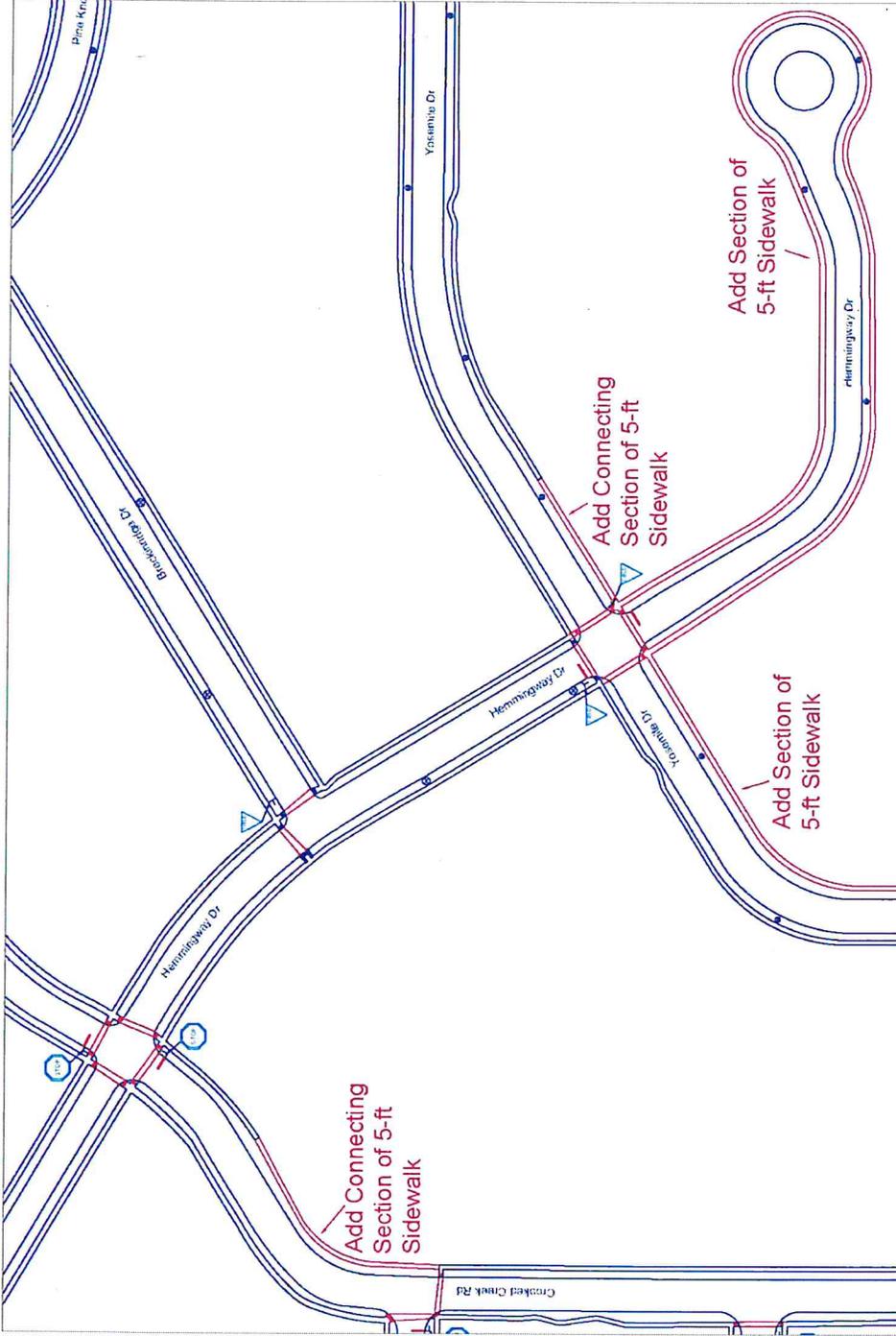
**Yosemite Dr to Dobie Rd**

|             |       |           |              |             |
|-------------|-------|-----------|--------------|-------------|
| MODIFY DATE | SCALE | DRAWN BY: | REVIEWED BY: | PAGE NUMBER |
| 11/2/2022   | 1:130 | G.C.      | T.G.         | 20          |

**SIDEWALK RAMP SHALL BE ADA COMPLIANT**  
**GREEN DENOTES OBSTACLES AND FEATURES**  
**GRAY DENOTES EXISTING PAVEMENT MARKINGS**  
**BLUE DENOTES EXISTING INFRASTRUCTURE**  
**PINK DENOTES PROPOSED IMPROVEMENTS**



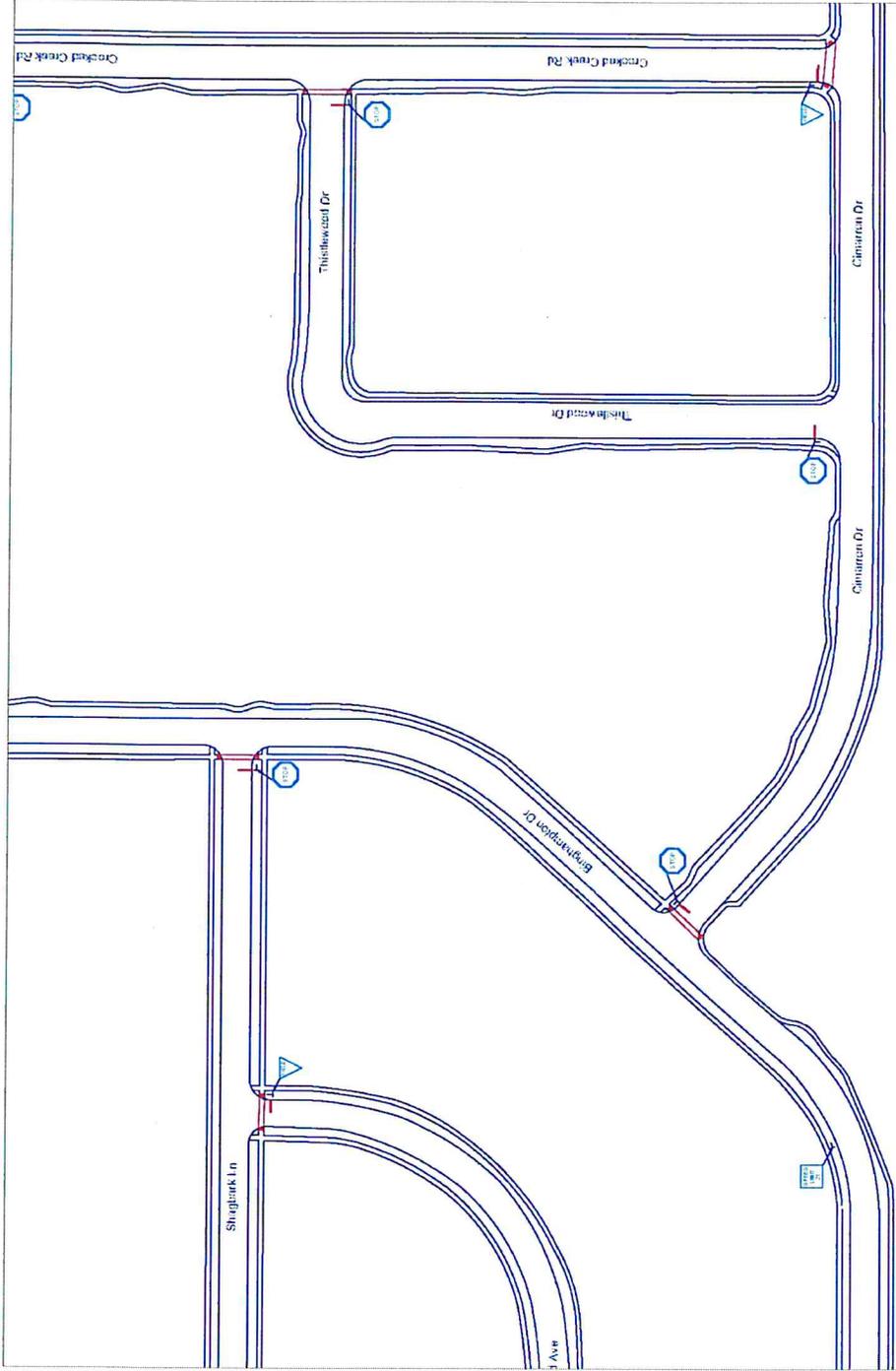
Add Section of  
5-ft Sidewalk



| Crooked Creek Rd and Hemmingway Dr |       |           |              |              |             |
|------------------------------------|-------|-----------|--------------|--------------|-------------|
| MODIFY DATE                        | SCALE | DRAWN BY: | REVIEWED BY: | REVIEW DATE: | PAGE NUMBER |
| 11/12/2022                         | 1:130 | G.C.      | T.G.         |              | 21          |

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| <p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>+ TRAFFIC SIGNAL</li> <li>T TRAFFIC SIGN</li> <li>— STREET SIGN</li> <li>■ ADA RAMP</li> <li>● LIGHT POLES</li> <li>■ PROPOSED ADA RAMP</li> </ul> |  | <p>SIDEWALK RAMP SHALL BE ADA COMPLIANT<br/>         GREEN DENOTES OBSTACLES AND FEATURES<br/>         GRAY DENOTES EXISTING PAVT MARKINGS<br/>         BLUE DENOTES EXISTING INFRASTRUCTURE<br/>         PINK DENOTES PROPOSED IMPROVEMENTS</p> |
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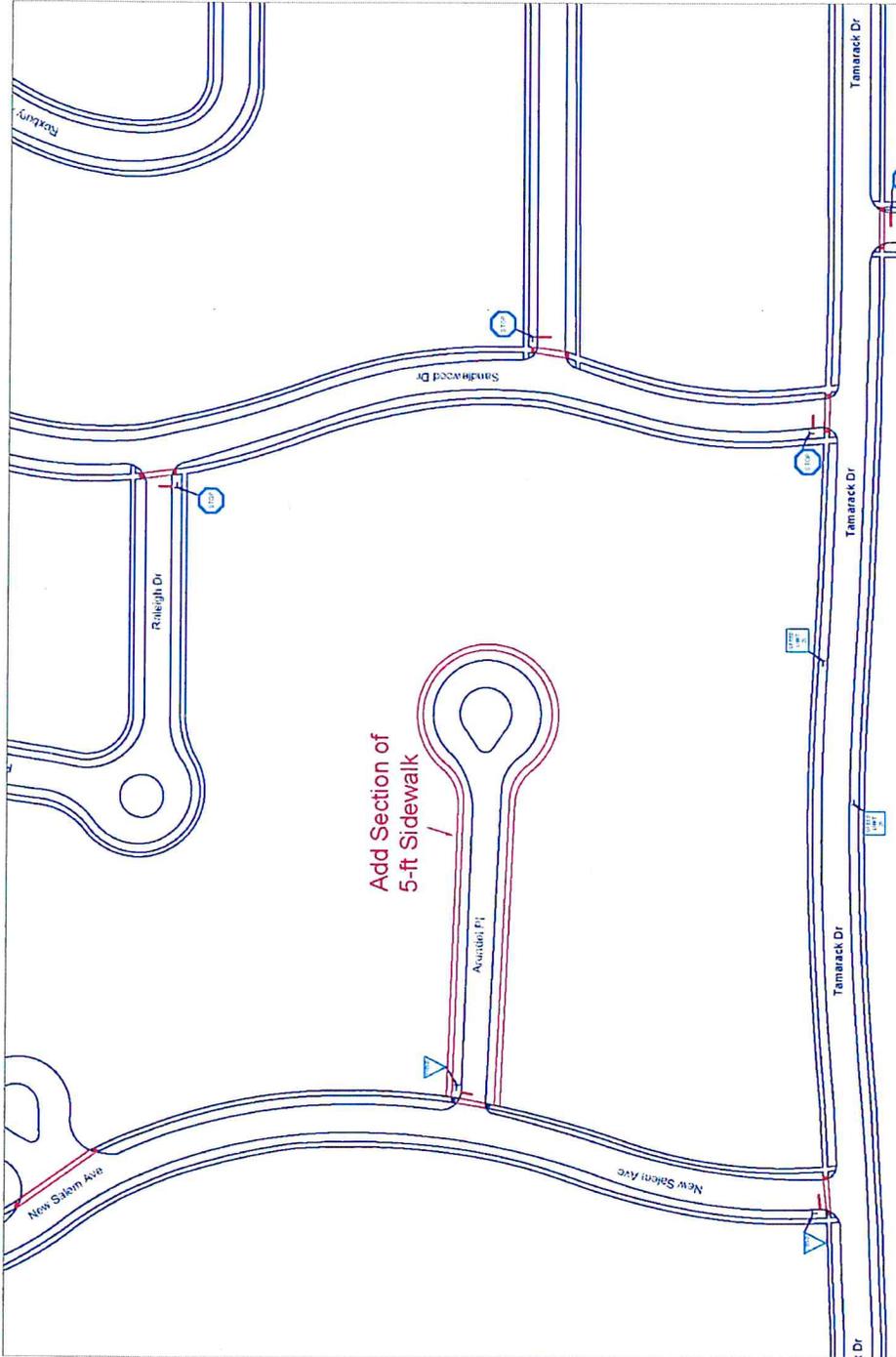
**LEGEND**

- TRAFFIC SIGNAL
- STREET SIGN
- ADA RAMP
- LIGHT POLES
- GREEN DENOTES OBSTACLES AND FEATURES
- GRAY DENOTES EXISTING PAVT MARKINGS
- BLUE DENOTES EXISTING INFRASTRUCTURE
- PINK DENOTES PROPOSED IMPROVEMENTS



**Binghamton Dr from Shagbark Ln to Cimarron Dr**

| MODIFY DATE | SCALE | DRAWN BY: | REVIEWED BY: | REVIEW DATE: | PAGE NUMBER |
|-------------|-------|-----------|--------------|--------------|-------------|
| 11/2/2022   | 1:130 | G.C.      | T.G.         |              | 22          |



**Tamarack Dr to Raleigh Dr from New Salem Ave to Sandwood**

**SIDEWALK RAMPS SHALL BE ADA COMPLIANT**  
**GREEN DENOTES OBSTACLES AND FEATURES**  
**GRAY DENOTES EXISTING PAINT MARKINGS**  
**BLUE DENOTES EXISTING INFRASTRUCTURE**  
**PINK DENOTES PROPOSED IMPROVEMENTS**

**LEGEND**

- + TRAFFIC SIGNAL
- T TRAFFIC SIGN
- + STREET SIGN
- ADA RAMP
- ⊙ LIGHT POLES
- PROPOSED/EXISTING



| MODIFY DATE | SCALE | DRAWN BY: | REVIEWED BY: | REVIEW DATE: | PAGE NUMBER |
|-------------|-------|-----------|--------------|--------------|-------------|
| 11/3/2022   | 1:130 | G.C.      | T.G.         |              | 23          |

## Next Steps

- Get feedback on recommendations presented and revise and finalize these for a last meeting.
- Get surveys completed and results incorporated into the full action report.





**To:                    Transportation Commission**

**From:                Brian Shorkey, AICP, Senior Planner**

**Date:                December 1, 2022**

**Re:                  2022 Project Review**

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The following is a list of projects that the Transportation Commission worked on or completed in 2022.

1. Thanks to the Transportation Commission's comments, MDOT added extra pathway user safety objects on the Grand River project.
2. The Traffic Impact Study Ordinance update was approved by the Township Board after it was reviewed and commented on by the Transportation Commission.
3. The Transportation Commission applied to the Bike League of America for the Bicycle Friendly Community program.
4. In July, CATA gave their annual presentation to the Transportation Commission. Based on the Transportation Commission's comments, CATA is looking to update the Redi-Ride stops by closing the stop at the Aquatic Park on Abbot Road and moving it to the new McLaren hospital.
5. In September, the ICRD gave a presentation to the TC regarding the Lake Lansing Road Non-motorized Improvement project scheduled next year. Based on the comments from the TC, the ICRD amended their concept plan to add a non-motorized connection.
6. The TC is scheduled to review the transportation related goals and objectives for the Township's Master Plan update.