



**ACME TOWNSHIP PARKS & TRAILS MEETING**  
**ACME TOWNSHIP HALL**  
**6042 Acme Road, Williamsburg MI 49690**  
**July 15<sup>th</sup>, 2016 10:00 a.m.**

**ROLL CALL:**  
**Committee:**

resigned	Demarsh	A	Feringa	X	Heffner	X	Jenema
X	LaPointe	X	Timmins	X	Wentzloff		
Ex	Heinert	X	Kushman	X	Sullivan		
Ex.	Henkel	X	Winter				

**Advisory:**  
**Staff:**

- A. **PUBLIC COMMENT: no public comment**
- B. **APPROVAL OF AGENDA: Yuba natural area added by LaPointe under New Business #2**  
**Motion : Timmins made motion to approve agenda 2<sup>nd</sup>. Lapointe**
- C. **INQUIRY AS TO CONFLICTS OF INTEREST: none**
- D. **CORRESPONDENCE: Heffner mentioned going up to the Grand Traverse Wheel Way to see how it functions. Also talked about the natural playground at Orchard Creek subdivision by the high school**
- E. **ACTION:**
  - 1. **Approve Draft Minutes of:**
    - a. **Parks & Trail Meetings Minutes 05/24/2016 – Motion to approve Lapointe 2<sup>nd</sup> Timmins**
    - b. **Parks & Trails Meeting Minutes 06/17/2016 – filed as notes as there was no quorum present at the meeting.**
- F. **REPORTS (if applicable)**
  - 1. **Township Board – Jenema – discussed trails being presented at the August board meeting. The board was given a packet to look over in July. Winter and Kushman will be doing the presentation.**  
**Asking the board to support the concept of the Acme to Charlevoix trail. We are not asking for any funds this is only conceptual so that we can explore options.**  
**Jenema talked about Acmes internal focuses**
    - 1) connecting Bunker Hill to the VGT.
    - 2) Connect along the shoreline through to Deep Water Pt.
    - 3) Deep Water Pt. North**Lapointe asked questions to clarify the different paths of the trail.**
  - 2. **TART – Kushman Will be covered later in the meeting.**
  - 3. **Universal Accessibility – Timmins -nothing to report**
  - 4. **Staff – Winter – went over the different updates from Klaus’s email. Construction started this week on Saylor Park boat launch.**  
**Bids are being solicited for N. Bayside Park- asking for the bids to be in by the end of July. With construction starting after labor day weekend. Will Look at bids at the next park and trails meeting in August.**  
**Acme is on track with having the ruffed grouse society come on August 1<sup>st</sup>. Tree flagging for**

the larger things the township wants to keep will take place. Briefly discussed the need for a maintenance schedule to keep the autumn olive from coming back.

**G. NEW BUSINESS:**

- 1. South Bayside Park Discussion-** Discussed how to move forward in the future concerning the allowed uses at the park, how to police business from using the parks parking lot and the parking area. This topic was moved to the August meeting for further discussion.

**H. OLD BUSINESS:**

- 1. Acme Trail Connectors**

**Kris Kushman gave an update:**

Waiting on Klaus for final numbers before he can give Acme the completed construction cost of the trail designated in blue.

The current design was sent to the Holiday Inn Express, he will be checking back with them early the week of 7/18 to get their thoughts.

Shared roadway on Mt. Hope still needs to be clarified as to which side of the road the trail will be on, north or south, currently the south side is favored.

Wentzloff had to leave but supports the trails as presented to the group.

Went over proposed cost of the trail sections.

Jenema brought up discussion on setting up a maintenance pact with other partners to off set the cost of up keep for the township.

- a. Internal Acme Trail Connector design ( Bunkerhill Rd.to GTTC property) solutions, steps forward**
  - i. Motion to support Timmins 2<sup>nd</sup>. Heffner**
- b. Traverse City to Charlevoix Trail Concept Plan**
  - i. Motion to support LaPointe 2<sup>nd</sup>. Timmins**
- c. Phase I Traverse City to Charlevoix Trail (Bunkerhill down through Bayside park to Deep Water Pt.)**
  - i. Motion to support Timmins 2<sup>nd</sup>. Jenema**

Introduced Chris Sullivan he will be representing the GTRLC. He will be working with the township through the N. Bayside grant process. Not sure if he will be appointed to continue coming to the Park and Trail meetings or not.

**I. PUBLIC COMMENT none**

**ADJOURN:**



**ACME TOWNSHIP PARKS & TRAILS MEETING**  
**ACME TOWNSHIP HALL**  
**6042 Acme Road, Williamsburg MI 49690**  
**July 15<sup>th</sup>, 2016 10:00 a.m.**

**ROLL CALL:**

**Committee:**

	Demarsh		Feringa		Heffner		Jenema
	LaPointe		Timmins		Wentzloff		
	Heinert		Kushman				
	Henkel		Winter				

**Advisory:**

**Staff:**

**A. PUBLIC COMMENT:**

**B. APPROVAL OF AGENDA:**

**C. INQUIRY AS TO CONFLICTS OF INTEREST:**

**D. CORRESPONDENCE:**

**E. ACTION:**

**1. Approve Draft Minutes of:**

- a. Parks & Trail Meetings Minutes 05/24/2016
- b. Parks & Trails Meeting Minutes 06/17/2016

**F. REPORTS (if applicable)**

- 1. Township Board - Jenema
- 2. TART - Kushman
- 3. Universal Accessibility – Timmins
- 4. Staff – Winter

**G. NEW BUSINESS:**

- 1. South Bayside Park Discussion

**H. OLD BUSINESS:**

- 1. Acme Trail Connectors
  - a. Internal Acme Trail Connector design solutions, steps forward
    - i. Motion to support
  - b. Traverse City to Charlevoix Trail Concept Plan
    - i. Motion to support
  - c. Phase I Traverse City to Charlevoix Trail
    - i. Motion to support

**I. PUBLIC COMMENT**

**ADJOURN:**



**ACME TOWNSHIP PARKS & TRAILS MEETING  
ACME TOWNSHIP HALL  
6042 Acme Road, Williamsburg MI 49690  
May 24<sup>th</sup>, 2016 9:00 a.m.**

**ROLL CALL:**

<b>Committee:</b>	<b>A</b>	<b>Demarsh</b>	<b>x</b>	<b>Feringa</b>	<b>x</b>	<b>Hefner</b>	<b>x</b>	<b>Jenema</b>
	<b>x</b>	<b>LaPointe</b>	<b>x</b>	<b>Timmins</b>	<b>x</b>	<b>Wentzloff</b>		
<b>Advisory:</b>	<b>x</b>	<b>Heinert</b>	<b>x</b>	<b>Kushman</b>	<b>x</b>	<b>McDonough</b>		
<b>Staff:</b>	<b>x</b>	<b>Henkel</b>	<b>x</b>	<b>Winter</b>				

**A. PUBLIC COMMENT:**

**B. APPROVAL OF AGENDA: Look up who made the motion**

1. Motion by Jenema, second by LaPointe to approve the agenda with the addition of email correspondence from Brian Kelley dated May 24, 2016. Motion Carries.

**C. INQUIRY AS TO CONFLICTS OF INTEREST: None**

**D. CORRESPONDENCE:**

1. Email from Brian Kelley dated May 24, 2016 – read into record.
2. Email from Trustee Jean Aukerman dated May 10, 2016- read into the record.

**E. ACTION:**

1. **Approve Draft Minutes of:**
  - a. **Parks & Trail Meeting Minutes 04/14/2016** – Motion: LaPointe, 2<sup>nd</sup> Timmins to approve draft minutes of 04/14/16. Motion carries.

**F. REPORTS (if applicable)**

**1. Township Board – Jenema**

- Discussion related to CZM and 2% Grants. Jenema concerned because we have a lot of money tied up for potential grant matches that have been applied for.
- Not going after CZM grant since it requires a match. 2% Grant does not require a grant. Feringa confirmed applying for a 2% Grant for the parks will not jeopardize other 2% Grant application submitted in the Township. June 30<sup>th</sup> 2% grant deadline.
- Decision to apply for a 2% Grant not to exceed \$40,000 with the intention of providing site amenities from the final design that will compliment Phase I construction: site lighting, site furniture, appropriate/compliant signage, restroom renovations, with the option to request amending the 2% Grant application to address landscaping and other needs if the Township does not receive the Trust Fund Grant. Motion by Jenema, second by Wentzloff.
- Motion by Jenema, 2<sup>nd</sup>, by Lapointe, Motion to put the Bayside Park Phase I project out for bid. Motion carries.
- Park and trails by laws were modified from the PC by laws. Jenema read the bylaws and will present them at the June board meeting.

**2. TART – Kushman**

- Three areas that Tart has been concentrating on 1) inter connection design 2) Lautner Rd. through the VGT properties to Acme. 3) Tc to Charlevoix

- Forming an Acme trail group, the first meeting is Tuesday May 31<sup>st</sup>.
- 3. **Grand Traverse Regional Land Conservancy – McDonough**
  - Matt McDonough has taken a new job with Munson.
- 4. **Universal Accessibility – Timmins,**
  - Spoke with the Disability Network, reported back the places in Bay Side Park that needed to be brought up to new standards. Klaus said many of the changes would be made during upgrades to the site.
- 5. **Autumn Olive – Winter**
  - Ruffed Grouse Society is scheduled to come August 1<sup>st</sup> to cut the autumn olive. Trees will begin to be tagged in July, to identify trees that the township wants to keep. The Land Conservancy is helping with the trees, volunteers are welcome.

**G. NEW BUSINESS:**

**1. Acme Township Trail Update-**

- Klaus went over the different designs through the park. Heffner asked about getting copies of the plan to start showing the public. Winter would like to put the plan ideas in the new Kiosk at Bayside Park. Discussed the trail head parking on Bunker Hill. It was agreed that Julie Clark would do some inquiring about close properties that may provide additional parking. Brought up the idea of moving the trail through Bayside Park farther away from the road behind the black willow.
- Discussed Mt. Hope Rd. and what would be needed to make the trail ADA compliant, ie. land acquisition to provide areas to create cut outs. Discussed width of trails and how it relates to the sidewalks already on M72, and the new form based code.

**2. Bayside Park Design and Development (Phase I).**

- Not discussed

**H. OLD BUSINESS:**

**1. Mission and Vision Statements**

- **Acme Township** will provide a diverse, safe and accessible system of Parks, Trails, and Natural Areas that connect people with the environment and beauty of Acme Township. A system that offers residents and visitors notable recreational experiences while balancing natural resource protection. Motion by Jenema to approve the vision statement; 2<sup>nd</sup> by Heffner. Motion carries

**I. PUBLIC COMMENT none**

**ADJOURN: Feringa made a motion to adjourn, 2<sup>nd</sup>. By Timmins**



**ACME TOWNSHIP PARKS & TRAILS MEETING  
ACME TOWNSHIP HALL  
6042 Acme Road, Williamsburg MI 49690  
June 17<sup>th</sup>, 2016 10:00 a.m.**

**ROLL CALL:**

**Committee:**

A	Demarsh	A	Feringa	X	Hefner	X	Jenema
A	LaPointe	X	Timmins	A	Wentzloff		
A	Heinert	X	Kushman				
A	Henkel	X	Winter				

**Advisory:**

**Staff:**

**A. PUBLIC COMMENT: None**

- Tom was informed that the park and trails committee will request his attendance when there are issues the committee needs his input on, so that he can concentrate on his summer duties.
- There was no quorum so no motions will be made today.

**B. APPROVAL OF AGENDA: No quorum**

**C. INQUIRY AS TO CONFLICTS OF INTEREST:**

**D. CORRESPONDENCE:**

**E. ACTION:**

**1. Approve Draft Minutes of:**

- a. Parks & Trail Meeting Minutes 05/24/2016-** moved to the next meeting.

**F. REPORTS (if applicable)**

**1. Township Board – Jenema-** no report

**2. TART – Kushman-**

- discussed how the monetary break down of trail maintenance cost will be done in different levels so that communities can see a full break down of yearly vs. long term cost and maintenance. Discussed a few different models used by communities to fund trail maintenance costs. He is waiting on Klaus to break down the trail distance so that he can put it into the matrix to generate cost per foot.
- County Road Commission had a meeting with TART to discuss the rail road crossing at 5 mile and how to best mark it so people will cross the right way in order to avoid accidents.

**3. Universal Accessibility – Timmins – no report**

**4. Staff – Winter**

- The board agreed to submit the 2% grant to the GTB, that Jean Aukerman and Barb Heflin wrote.
- DNR visit was on 6/15 at Bayside park. The preliminary scores will be out at the end of August
- Discussed what would be turned into the DNR in October.
- Discussed the best options for re purposing picnic tables and benches if we get the grants.
- The need to move the signs and life rings to a more appropriate spots within the park. Amy will pass the request on to the maintenance committee.

**G. NEW BUSINESS:**

**1. Bayside Park Design Detailing Discussion**

**Basic design elements-**

- committee members present agreed that it should be timeless and classic.
- Went over different design elements and discussed pros and cons.
- Bike trail along Mt. Hope Rd. is approximately 6.5% grade. Switch backs would have

to be used in order to make it ADA compliant. No one thought we should move forward spending money on a trail that couldn't be ADA compliant and that the road should be used until a proper ADA compliant trail can be established with a willing land owner.

**H. OLD BUSINESS:**

**1. Inner Acme Connector Trail Update-**

- Connections are still being explored on the best way to connect to Lautner Rd.

**I. PUBLIC COMMENT - none**

**ADJOURN:**



#### Where will the trail start and end?

The Traverse City to Charlevoix Trail (TVC-CHX) will connect communities across three counties in northwest lower Michigan and aims to link TART Trails' 28 mile trail system between Suttons Bay and Acme Township with Top of Michigan Trail Council's 26 mile Little Traverse Wheelway Trail starting in Charlevoix. Closing the 46 mile Traverse City to Charlevoix gap will create a 325 mile non-motorized transportation and recreation trail network in northern lower Michigan.

#### What is the process for design, engineering and constructing the trail?

The trail design, engineering and constructing process is centered on community input. TART Trails and its partners rely on community driven input to direct and advance the TC to Charlevoix Trail. The planning committee consists of representatives from each of the townships that proposed pathway connects as well as local organization leaders and interested individuals. This working group has developed a recommended action plan that breaks the trail corridor into three manageable segments: Acme to Elk Rapids, Elk Rapids to Eastport, and Eastport to Charlevoix. Local teams are being developed within each of the three segments to help with planning, engineering and trail completion.

#### Who will own the trail and how will it be maintained?

The 46 mile Traverse City to Charlevoix Trail will serve people across a large geographical area, and cross multiple jurisdictions including three counties (Charlevoix, Antrim, and Grand Traverse) seven townships (Acme, Elk Rapids, Milton, Torch Lake, Banks, Norwood, and Charlevoix), property owned by the Grand Traverse Band of Ottawa and Chippewa Indians, and the Village of Elk Rapids. As a result, multi-jurisdictional cooperation will be necessary to construct, manage, and maintain the trail. There are many benefits associated with the creation of a collaborative partnership to address trail development, long term operations, management, and maintenance. Partner roles and responsibilities may include property acquisition and ownership, development of trail and associated amenities and facilities (trailheads, signage and restrooms), management authority, maintenance, fundraising, policing and law enforcement, volunteer recruitment and management, promotion, programming, and events.

#### Where will funding come from to build and maintain the trail?

To construct 46 miles of trail from Acme to Charlevoix will require a comprehensive strategy utilizing state and federal grants, contributions from the local units of government, and other private funding.

#### What are the places between Traverse City and Charlevoix that the trail will connect?

The Traverse City to Charlevoix Trail (TVC-CHX Trail) has an ambitious goal to connect two regional trail networks that link the communities of Traverse City, Acme, Elk Rapids, Eastport, Norwood and Charlevoix with nearly 300 miles of existing trails from Alpena to Suttons Bay. This requires combining what trail users want with suitable land and road right-of-ways that can support a non-motorized recreation and transportation trail. The trail will pass through beautiful scenery and provide access to 24 public amenities including parks, beaches, natural areas, communities, and other destinations along the US-31 corridor. The project builds on the vision of more than a decade of community groups working to make trail connections.



#### How does the agricultural landscape impact the trail?

Agriculture along the trail represents historic and present-day business and cultural practices that are major economic drivers in the region. The path will be designed, with recommendations and input from the agricultural community, in a way that respects and celebrates the importance of the agricultural community, while limiting user conflicts.

#### What kind of user groups will be allowed to access the trail?

The TVC-CHX Trail will connect to and be a part of Michigan's non-motorized trail system, which allows visitors and residents to hike, bike, ski, run, walk, and explore the great outdoors, along with our cities and villages. The public will be invited to take advantage of the pathway and enjoy the recreation and transportation opportunities it will provide for locals and tourists alike.

#### What safety measures and precautions will be taken for some of the major road crossings?

A high priority in the TVC-CHX Trail planning process is to minimize the number of road crossings to the extent possible. Michigan Department of Transportation design and engineering standards will be maintained along with experienced MDOT trail engineers/designers input throughout the development process.

#### Who is responsible for the safety of trail users on the portions of trail through private property?

It has become common for trail groups in Michigan to request access to privately held lands for trail development. Landowners often have questions concerning their risks, liability, and responsibility. The Michigan legislature addresses this issue through the "Recreational Use Statute" to encourage land owners and managers to allow public access for recreation on their lands. The statute offers landowners a very good assurance of protection with the exception of instances of gross negligence. For an online version follow the link:

[http://www.legislature.mi.gov/\(S\(rok4w1rshd15zmgvgrwtwazn\)\)/mileg.aspx?page=GetObject&objectname=mc1-324-73301](http://www.legislature.mi.gov/(S(rok4w1rshd15zmgvgrwtwazn))/mileg.aspx?page=GetObject&objectname=mc1-324-73301)

#### What types of use are permitted within the US-31 right-of-way?

MDOT considers a trail a transportation facility and the right-of-way may be used for the purpose of maintaining and constructing facilities.

#### What are the benefits of the proposed TVC-CHX Trail?

There are many benefits of trails that impact the community, whether you are an active trail user or not. Studies have shown that trails make our communities more livable, improve the economy through tourism and civic improvement, preserve and restore open space, and provide opportunities for physical activity to improve fitness and mental health. To learn more about the benefits of the TVC-CHX trail visit <http://www.traversecitytocharlevoixtrail.org/>



## TRAIL ORIGINS

Connecting two existing trail networks – TART Trails and Top of Michigan Trails Council will create a 325 mile non-motorized transportation and recreation trail network in northern Lower Michigan. Trails allow visitors and residents to hike, bike, ski, run, walk and explore Michigan's great outdoors, its big cities and small towns. Trails help fuel Michigan's economy. They help create and cultivate tourism, create jobs, attract new residents, and increase property values.

- 2004** The idea for a trail between Traverse City and Elk Rapids dates back to at least 2004 when the Rotary Club of Elk Rapids hired Northwest Design Group to investigate a route for a non-motorized recreation and transportation trail between Acme and Elk Rapids.
- 2010** The Rotary Club of Elk Rapids partnered with Elk Rapids Parks and Recreation Commission, TART Trails and Grand Traverse Regional Land Conservancy to host a public forum on trail connections between Traverse City and Elk Rapids which engaged and excited the community.
- 2013** MDOT planning staff convened a meeting with interested parties to assess the feasibility of creating a trail from Traverse City to Charlevoix. To help move the effort forward and develop a design concept and action plan, TART Trails and Top of Michigan Trails Council successfully applied for a grant from the National Park Service- Rivers, Trails, and Conservation Assistance Program to help facilitate a public planning process and develop a trail plan.
- 2015** The project team published a concept plan and development guide. Maps, estimated costs, benefits, and challenges of the project were outlined in the plan along with a route considerations to begin to share with communities along the corridor. While much work remains, this plan outlines the design, engineering, construction, and maintenance needs to make this incredible trail a reality.



## TRAIL VISION & GOALS

The Traverse City to Charlevoix non-motorized transportation and recreation trail connects Traverse City's TART Trail to Charlevoix's Little Traverse Wheelway and the rest of the northern Lower Peninsula Trail network.

- The trail will draw people from around the state and region and provide local communities with economic development opportunities.
- The trail will also provide people of all ages and physical abilities access to more transportation choices and opportunities for active living and healthy lifestyles.
- Enhance regional identity and help create vibrant communities that attract and retain visitors, residents and businesses.

## TRAIL DISTANCES

Trail Length (estimated) by Segment:

- Acme to Elk Rapids 11.0 miles
- Elk Rapids to East Port 16.3 miles
- Eastport to Charlevoix 18.5 miles

Trail Length (estimated) by County

- Grand Traverse 8.4 miles
- Antrim 26.1 miles
- Charlevoix 11.3 miles

<http://www.traversacitytocharlevoixtrail.org/>

For more information please contact Chris Kushman, TART Trails Planning & Management Director at (231) 941-4300 or at [ckushman@traversetrails.org](mailto:ckushman@traversetrails.org)



Proposed Acme TART Connector - Bunker Hill to VGT										
Facility Type	Distance (Miles)/ # Bridges/ Sq. Feet Retaining Wall	Annual Maintenance & Operations Costs/Mile	Annual Ops Cost	Preventative Maintenance Costs/Mile Includes: Annual inspection, 7 year trenching, as needed crack sealing, and/or culvert clearing	Annual Preventative Cost	Snow Removal Cost/Mile	Snow Removal Cost	Annual Component Replacement Set-Aside/Mile	Annual Component Replacement Set-Aside	Total
Shared Roadway: Includes updating pavement markings and signage	0.09	\$750.00	\$67.50	\$165.00	\$14.85	\$0.00	\$0.00	\$0.00	\$0.00	\$82.35
Asphalt Shared-Use Path (25 year life): Includes updating pavement markings and signage, debris & tree limb clearing, mowing, minor isolated surface repair	1.15	\$1,500.00	\$1,725.00	\$643.79	\$740.36	\$1,455.00	\$1,673.25	\$4,000.00	\$4,600.00	\$8,738.61
Concrete Shared-Use Path (30 year life):Includes updating concrete markings and signage, debris & tree limb clearing, mowing, minor isolated surface repair	0	\$1,500.00	\$0.00	\$643.79	\$0.00	\$1,455.00	\$0.00	\$3,000.00	\$0.00	\$0.00
Crushed Limestone Shared-Use Path (10 year material add): Includes updating signage, tree limb clearing, mowing, periodic grading	0	\$750.00	\$0.00	\$198.00	\$0.00	\$1,455.00	\$0.00	\$2,000.00	\$0.00	\$0.00
Timber Boardwalk (20 year deck life): Includes updating signage, debris & tree limb clearing, isolated deck board replacement	0	\$500.00	\$0.00	\$165.00	\$0.00	\$1,455.00	\$0.00	\$7,040.00	\$0.00	\$0.00
Bridge (25 year deck life):Includes bi-annual inspections	0	\$2,000.00	\$0.00	\$0.00	\$0.00	\$1,455.00	\$0.00	\$800.00	\$0.00	\$0.00
Fencing (25 year life)	0.1	\$0.00	\$0.00	\$0.00	\$0.00	NA	NA	\$4,224.00	\$422.40	\$422.40
Retaining Wall (50 year life)	0	\$0.00	\$0.00	\$0.00	\$0.00	NA	NA	\$1.00	\$0.00	\$0.00
<b>Total</b>	<b>1.24</b>		<b>\$1,792.50</b>		<b>\$755.21</b>		<b>\$1,673.25</b>		<b>\$5,022.40</b>	<b>\$9,243.36</b>

\*Maintenance Cost Data Sources: Prein & Newhof, TART Trails Current & Historical Costs, Sleeping Bear Heritage Trails Current & Historical Costs

Proposed Phase I TC to CHX Bayside Park through Deepwater Natural Area										
Facility Type	Distance (Miles)/ # Bridges/ Sq. Feet Retaining Wall	Annual Maintenance & Operations Costs/Mile	Annual Ops Cost	Preventative Maintenance Costs/Mile Includes: Annual inspection, 7 year trenching, as needed crack sealing, and/or culvert clearing	Annual Preventative Cost	Snow Removal Cost/Mile	Snow Removal Cost	Annual Component Replacement Set-Aside/Mile	Annual Component Replacement Set-Aside	Total

Shared Roadway: Includes updating pavement markings and signage	0.13	\$750.00	<b>\$97.50</b>	\$165.00	<b>\$21.45</b>	\$0.00	<b>\$0.00</b>	\$0.00	<b>\$0.00</b>	<b>\$118.95</b>
Asphalt Shared-Use Path (25 year life): Includes updating pavement markings and signage, debris & tree limb clearing, mowing, minor isolated surface repair	0.3	\$1,500.00	<b>\$450.00</b>	\$643.79	<b>\$193.14</b>	\$1,455.00	<b>\$436.50</b>	\$4,000.00	<b>\$1,200.00</b>	<b>\$2,279.64</b>
Concrete Shared-Use Path (30 year life):Includes updating concrete markings and signage, debris & tree limb clearing, mowing, minor isolated surface repair	0	\$1,500.00	<b>\$0.00</b>	\$643.79	<b>\$0.00</b>	\$1,455.00	<b>\$0.00</b>	\$3,000.00	<b>\$0.00</b>	<b>\$0.00</b>
Crushed Limstone Shared-Use Path (10 year material add): Includes updating signage, tree limb clearing, mowing, periodic grading	0	\$750.00	<b>\$0.00</b>	\$198.00	<b>\$0.00</b>	\$1,455.00	<b>\$0.00</b>	\$2,000.00	<b>\$0.00</b>	<b>\$0.00</b>
Timber Boardwalk (20 year deck life): Includes updating signage, debris & tree limb clearing, isolated deck board replacement	0	\$500.00	<b>\$0.00</b>	\$165.00	<b>\$0.00</b>	\$1,455.00	<b>\$0.00</b>	\$7,040.00	<b>\$0.00</b>	<b>\$0.00</b>
Bridge (25 year deck life):Includes bi-annual inspections	0	\$2,000.00	<b>\$0.00</b>	\$0.00	<b>\$0.00</b>	\$1,455.00	<b>\$0.00</b>	\$800.00	<b>\$0.00</b>	<b>\$0.00</b>
Fencing (25 year life)	0	\$0.00	<b>\$0.00</b>	\$0.00	<b>\$0.00</b>	NA	<b>NA</b>	\$4,224.00	<b>\$0.00</b>	<b>\$0.00</b>
Retaining Wall (50 year life)	0	\$0.00	<b>\$0.00</b>	\$0.00	<b>\$0.00</b>	NA	<b>NA</b>	\$1.00	<b>\$0.00</b>	<b>\$0.00</b>
<b>Total</b>	<b>0.43</b>		<b>\$547.50</b>		<b>\$214.59</b>		<b>\$436.50</b>		<b>\$1,200.00</b>	<b>\$2,398.59</b>

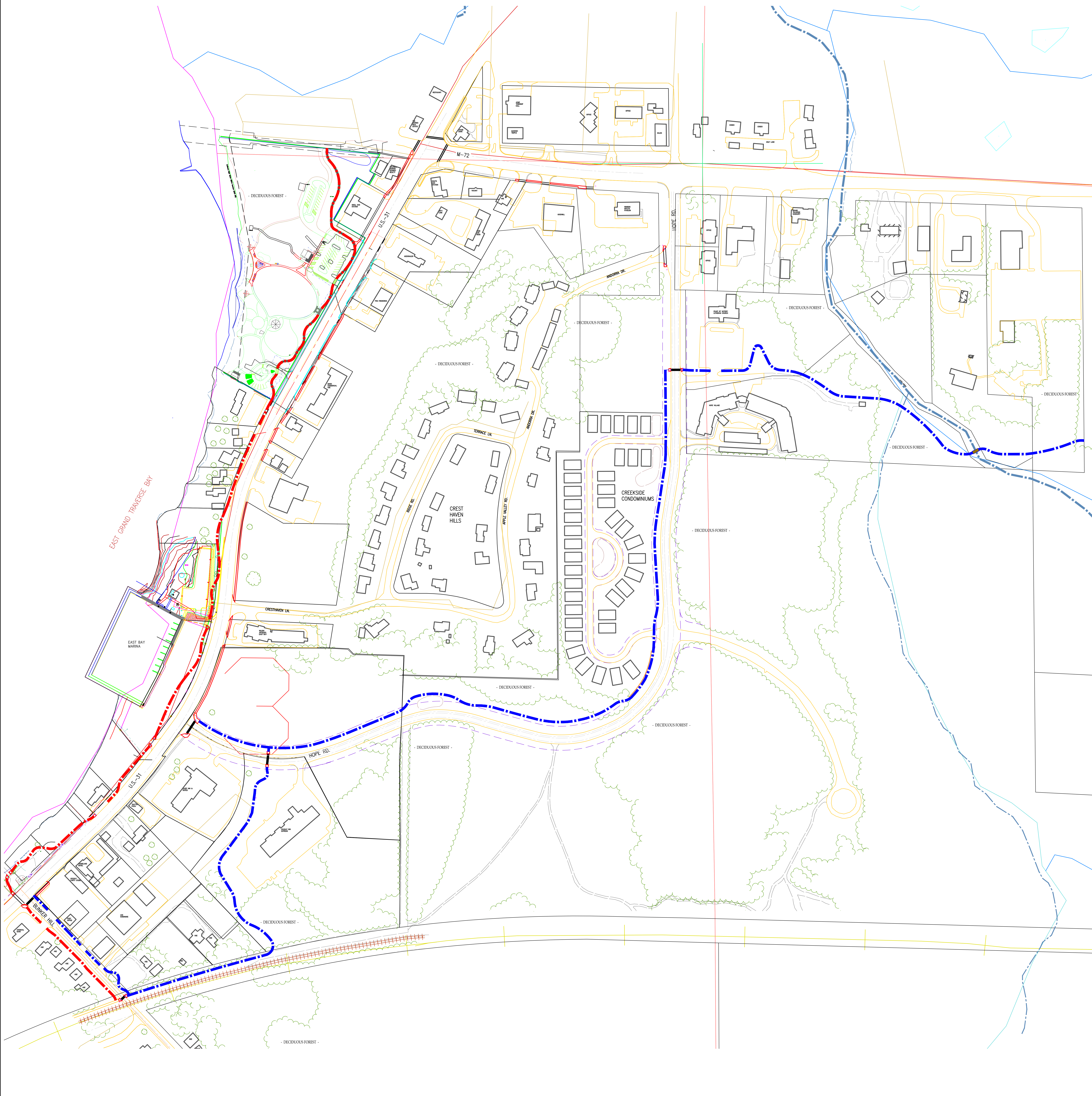
\*Maintenance Cost Data Sources: Prein & Newhof, TART Trails Current & Historical Costs, Sleeping Bear Heritage Trails Current & Historical Costs

TC to CHX Deepwater Natural Area through Maple Bay Park										
Facility Type	Distance (Miles)/ # Bridges/ Sq. Feet Retaining Wall	Annual Maintenance & Operations Costs/Mile	Annual Ops Cost	Preventative Maintenance Costs/Mile Includes: Annual inspection, 7 year trenching, as needed crack sealing, and/or culvert clearing	Annual Preventative Cost	Snow Removal Cost/Mile	Snow Removal Cost	Annual Component Replacement Set-Aside/Mile	Annual Component Replacement Set-Aside	Total
Shared Roadway: Includes updating pavement markings and signage	1.4	\$750.00	<b>\$1,050.00</b>	\$165.00	<b>\$231.00</b>	\$0.00	<b>\$0.00</b>	\$0.00	<b>\$0.00</b>	<b>\$1,281.00</b>
Asphalt Shared-Use Path (25 year life): Includes updating pavement markings and signage, debris & tree limb clearing, mowing, minor isolated surface repair	6	\$1,500.00	<b>\$9,000.00</b>	\$643.79	<b>\$3,862.74</b>	\$1,455.00	<b>\$8,730.00</b>	\$4,000.00	<b>\$24,000.00</b>	<b>\$45,592.74</b>
Concrete Shared-Use Path (30 year life):Includes updating concrete markings and signage, debris & tree limb clearing, mowing, minor isolated surface repair	0	\$1,500.00	<b>\$0.00</b>	\$643.79	<b>\$0.00</b>	\$1,455.00	<b>\$0.00</b>	\$3,000.00	<b>\$0.00</b>	<b>\$0.00</b>
Crushed Limstone Shared-Use Path (10 year material add): Includes updating signage, tree limb clearing, mowing, periodic grading	0	\$750.00	<b>\$0.00</b>	\$198.00	<b>\$0.00</b>	\$1,455.00	<b>\$0.00</b>	\$2,000.00	<b>\$0.00</b>	<b>\$0.00</b>



<b>Timber Boardwalk (20 year deck life): Includes updating signage, debris &amp; tree limb clearing, isolated deck board replacement</b>	0.1	\$500.00	<b>\$50.00</b>	\$165.00	<b>\$16.50</b>	\$1,455.00	<b>\$145.50</b>	\$7,040.00	<b>\$704.00</b>	<b>\$916.00</b>
<b>Bridge (25 year deck life):Includes bi-annual inspections</b>	0	\$2,000.00	<b>\$0.00</b>	\$0.00	<b>\$0.00</b>	\$1,455.00	<b>\$0.00</b>	\$800.00	<b>\$0.00</b>	<b>\$0.00</b>
<b>Fencing (25 year life)</b>	0	\$0.00	<b>\$0.00</b>	\$0.00	<b>\$0.00</b>	NA	<b>NA</b>	\$4,224.00	<b>\$0.00</b>	<b>\$0.00</b>
<b>Retaining Wall (50 year life)</b>	0	\$0.00	<b>\$0.00</b>	\$0.00	<b>\$0.00</b>	NA	<b>NA</b>	\$1.00	<b>\$0.00</b>	<b>\$0.00</b>
<b>Total</b>	<b>7.5</b>		<b>\$10,100.00</b>		<b>\$4,110.24</b>		<b>\$8,875.50</b>		<b>\$24,704.00</b>	<b>\$47,789.74</b>

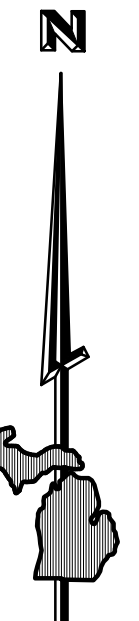
\*Maintenance Cost Data Sources: Prein & Newhof, TART Trails Current & Historical Costs, Sleeping Bear Heritage Trails Current & Historical Costs

# PROPOSED ACME MULTIUSE TRAIL CONNECTORS




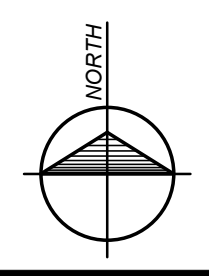
## LEGEND

-  PRIMARY ACME TRAIL CONNECTOR
-  SECONDARY ACME TRAIL CONNECTOR

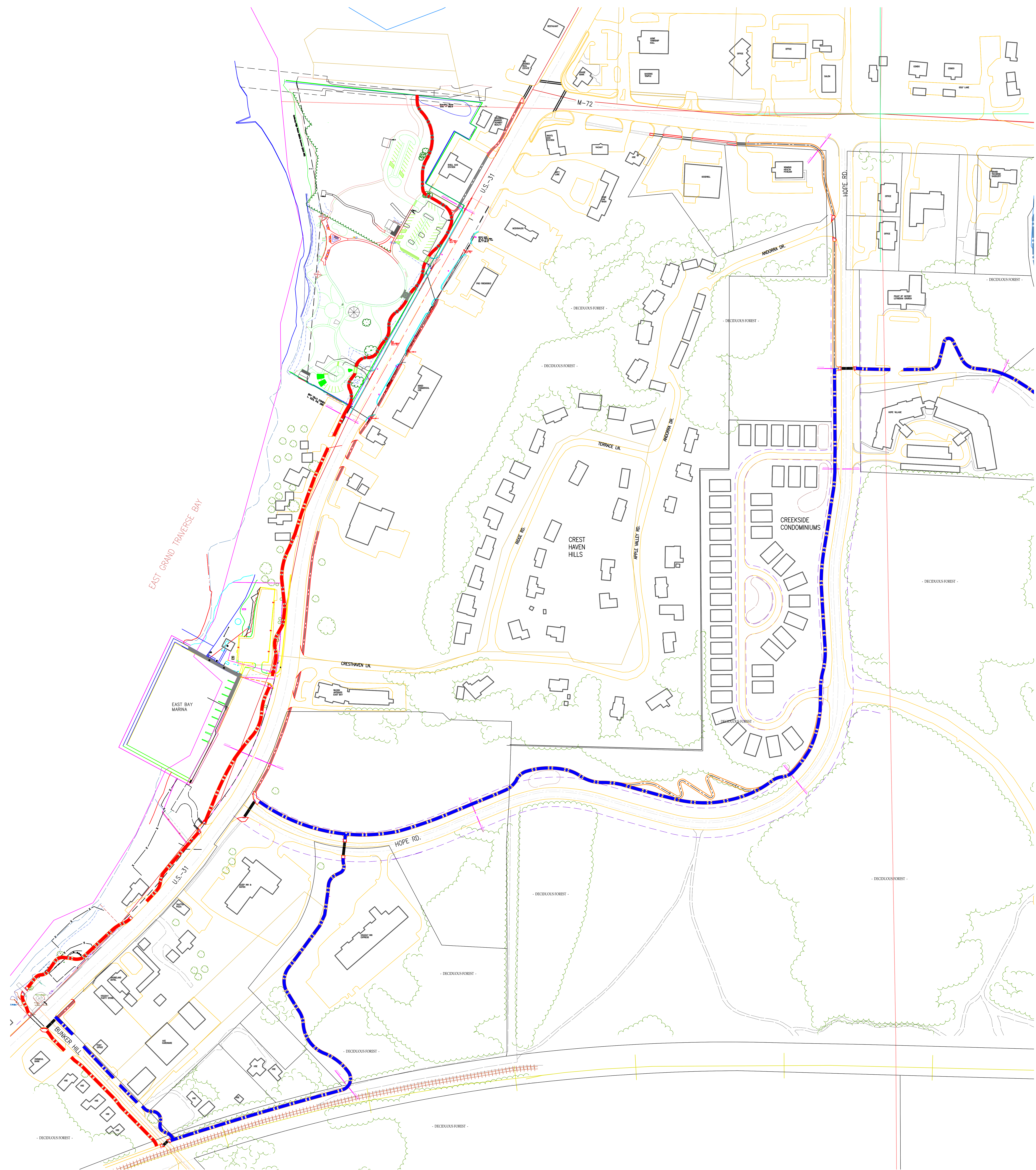


SCALE 1" = 100'  
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<p>Project No. 2015030010 Sheet 1 of 1</p>	<p><b>AERIAL ACME TWP. TRAIL CONNECTORS T.A.R.T. TRAILS</b></p>	<p>Location: T.27, R.10W, Section 3 WILLIAMSBURG, ACME TOWNSHIP, GRAND TRAVERSE COUNTY, MICHIGAN</p>	<p>Date: 02-10-16 Scale: AS NOTED</p>	<p>Drawn By: [Redacted] Checked By: [Redacted]</p>	<p>No.: [Redacted] Date: [Redacted] Revision: [Redacted] By: [Redacted]</p>	 <p><b>Gosling Czihak</b> ENGINEERING &amp; ARCHITECTS, INC. 1201 Williamsburg Park Drive Traverse City, MI 49686-1607 231.946.9112 1-800-966-1002 Fax: 231.941-4933</p>	<ul style="list-style-type: none"> <li>• Engineers</li> <li>• Surveyors</li> <li>• Environmental Services</li> <li>• Landscape Architecture</li> </ul>
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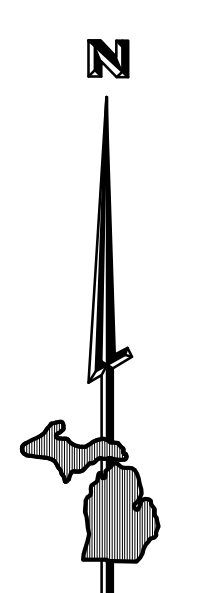


# PROPOSED ACME MULTIUSE TRAIL CONNECTORS



## LEGEND

- EXISTING SIGN
- EXISTING UNDERGROUND MARKER



SCALE 1" = 100'  
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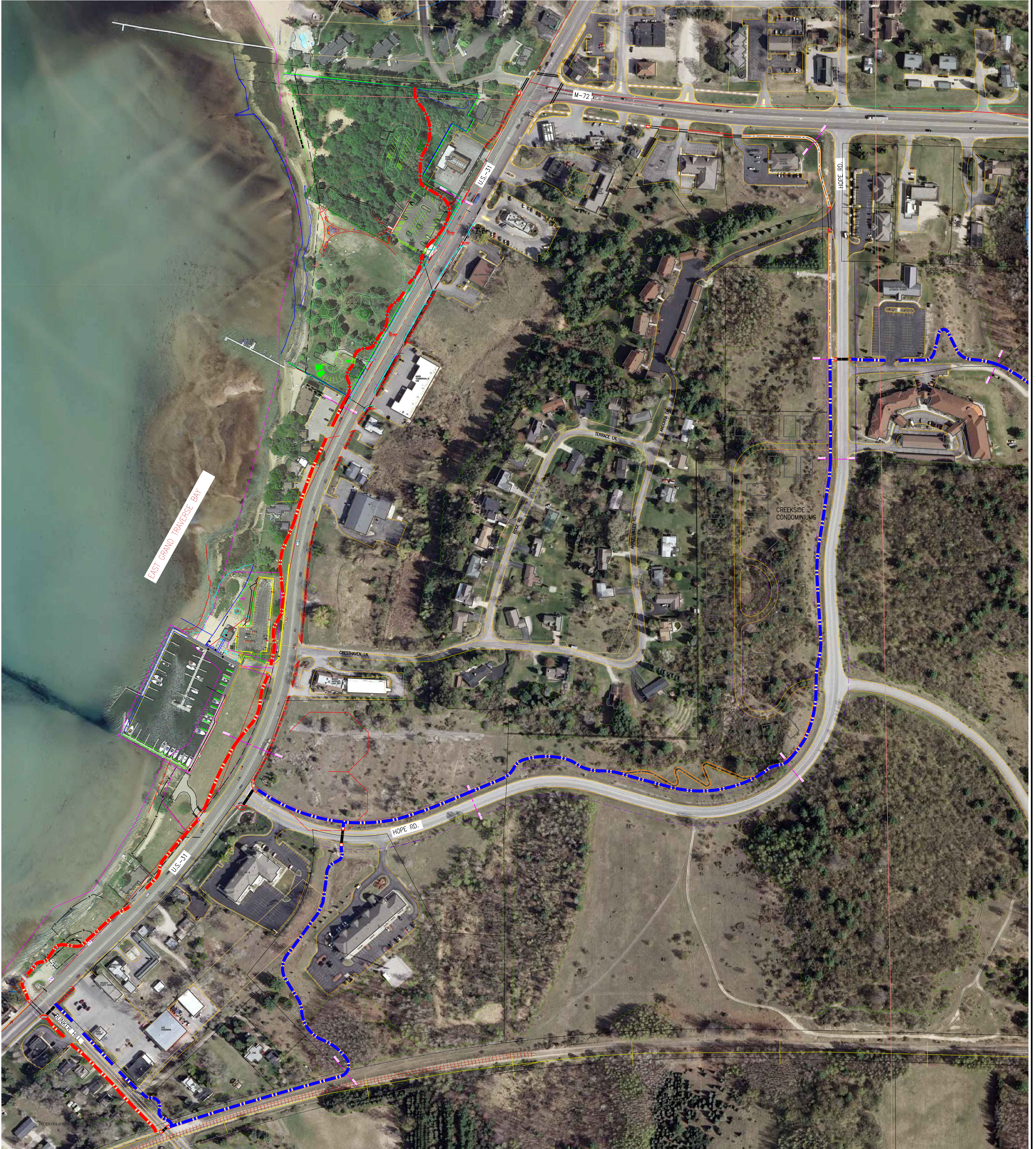
Project No.	Location	Date	Drawn By	No.	Date	Revision	By
Sheet		Scale:	Checked By:				
1		AS NOTED					

**Gosling Czubak**  
 engineering architects inc.  
 1200 Business Park Drive  
 Troy, MI 48068-8007  
 248-606-1111 248-606-1102  
 Fax: 248-607-8625

- Engineers
- Surveyors
- Environmental Services
- Landscape Architecture

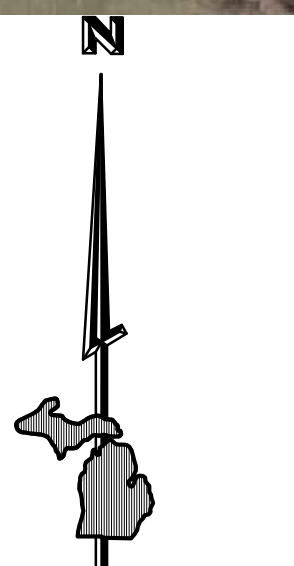


# PROPOSED ACME MULTIUSE TRAIL CONNECTORS




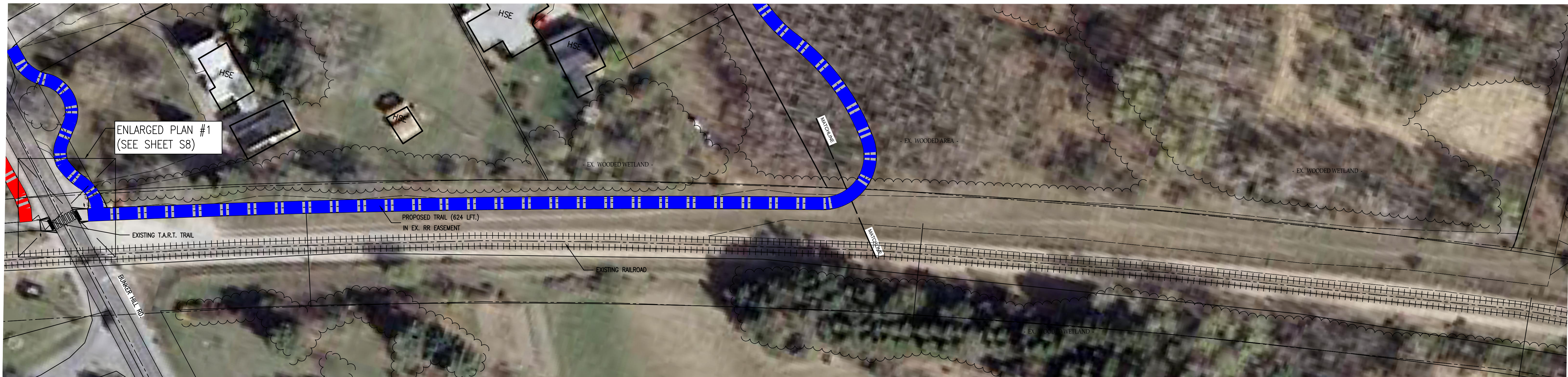
**LEGEND**  
 - - - EXISTING SIGN  
 - - - EXISTING UNDERGROUND MARKER

**LEGEND**  
 - - - EXISTING SIGN  
 - - - EXISTING UNDERGROUND MARKER  
 ○ EXISTING DECIDUOUS TREE  
 □ EXISTING BUILDING  
 - - - EXISTING ELECTRIC - OVERHEAD  
 - - - EXISTING CONTOUR  
 - - - PROPOSED CONTOUR  
 - - - PROPOSED DRAINAGE FLOW ARROW  
 - - - PROPOSED DITCH LINE / SWALE  
 - - - PROPOSED SILT FENCE  
 - - - PROPOSED GRAVEL  
 - - - PROPOSED SPOT GRADE



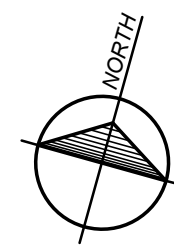
SCALE 1" = 100'  
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Project No.	Location	Date	Drawn By	Scale	Checked By	AS NOTED	 <b>Gosling Czubak</b> ENGINEERING ARCHITECTS, INC. 1200 Business Park Drive Troy, MI 48068-0007 248-616-1111 248-616-1102 Fax: 248-616-4652	• Engineers • Surveyors • Environmental Services • Landscape Architecture
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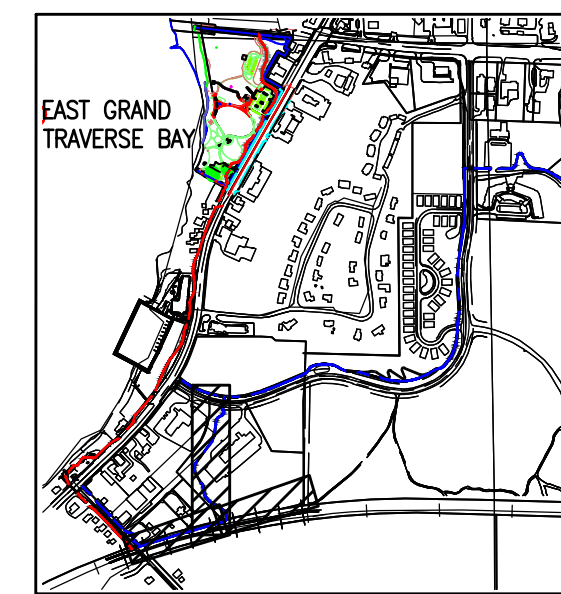
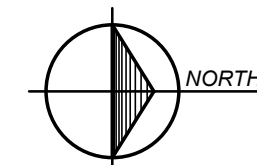
**RAILROAD TRAIL**

SCALE: 1" = 40'

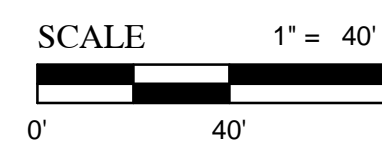


**RAILROAD TO MT. HOPE TRAIL OPTION B**

SCALE: 1" = 40'



MAP KEY



SCALE 1" = 40'

**Gosling Czubak**  
 an engineering sciences, inc.  
 1208 Business Park Drive  
 Traverse City, MI 49781  
 231-946-9191 800-966-1062  
 Fax: 231-941-6603



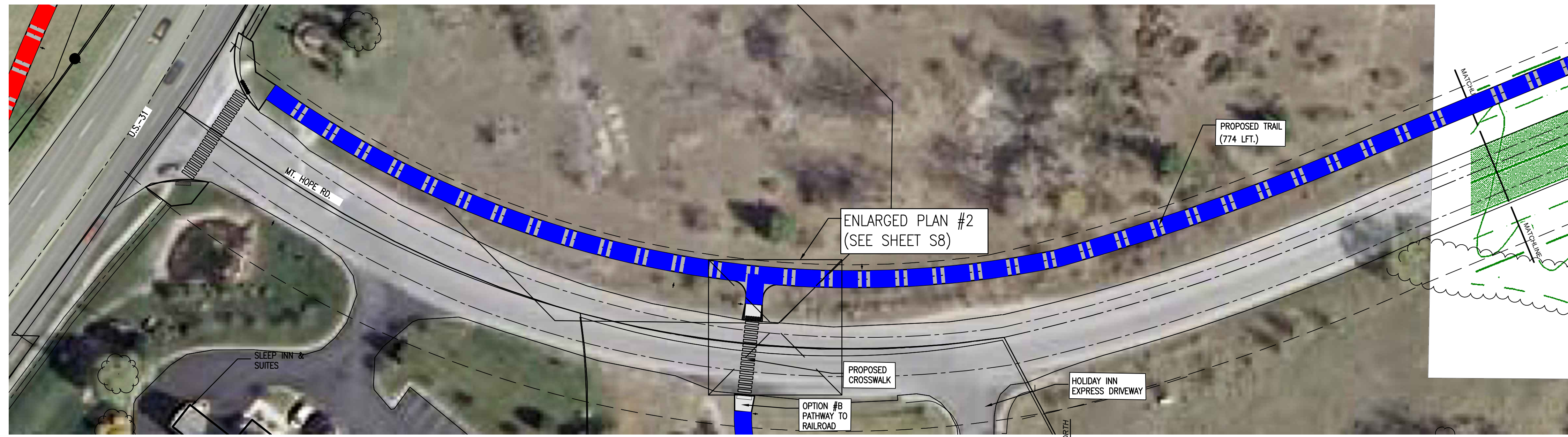
By:	LMS
Checked By:	KDH
Drawn By:	KDH
Date:	02-10-16
Revision:	ALIGNMENT UPDATES
No.:	1
	2
	3
	4
	ALIGNMENT UPDATES
	PLAN INPUT UPDATES
	FINAL PLAN UPDATES

Date:	AS NOTED
Scale:	AS NOTED
Checked By:	
Drawn By:	

Location:  
 T-27 B-00Y, Section 9  
 WILLIAMSBURG ACME TOWNSHIP  
 GRAND TRAVERSE COUNTY, MICHIGAN

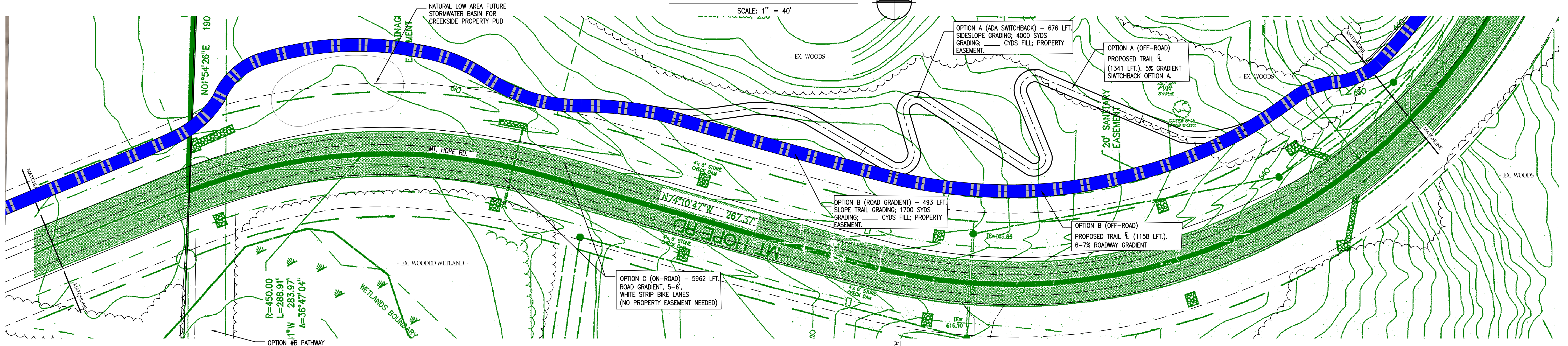
**LAYOUT PLANS  
 ACME TWP. TRAIL CONNECTORS  
 T.A.R.T. TRAILS**

Project No.  
 2015333001.01  
 Sheet  
**S2**



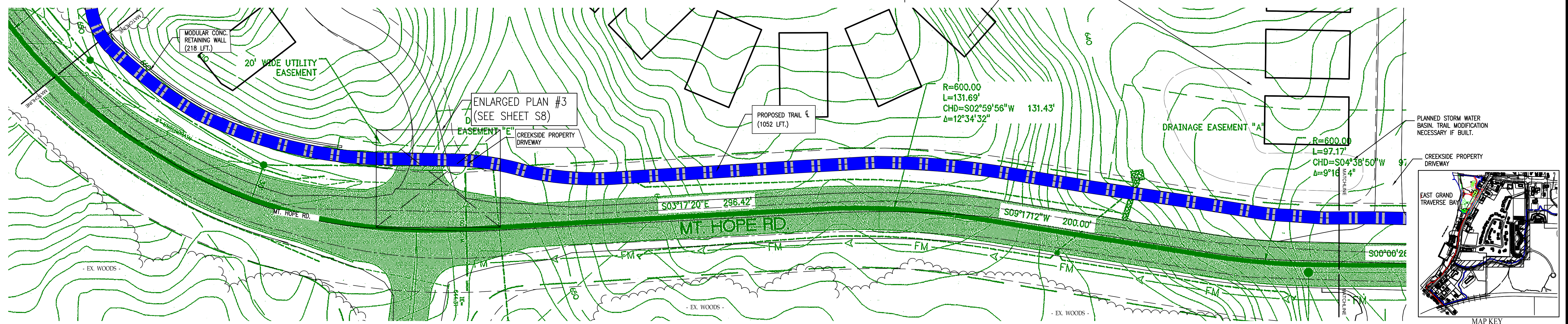
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SCALE: 1" = 40'



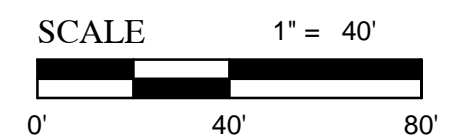
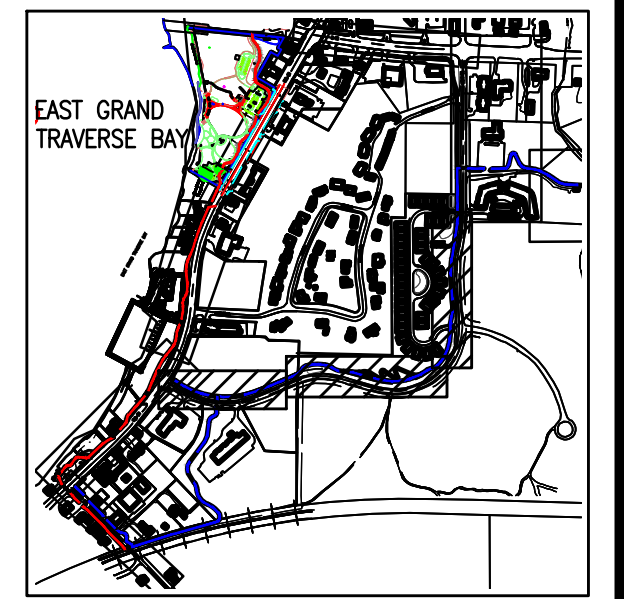
**MT. HOPE RD. TRAIL**

SCALE: 1" = 40'



**MT. HOPE RD. TRAIL**

SCALE: 1" = 40'



**Gosling Czubak**  
 ENGINEERING SURVEYING ENVIRONMENTAL SERVICES ARCHITECTURE  
 1200 Business Park Drive  
 231-946-9191 800-966-1062  
 Fax: 231-941-6603

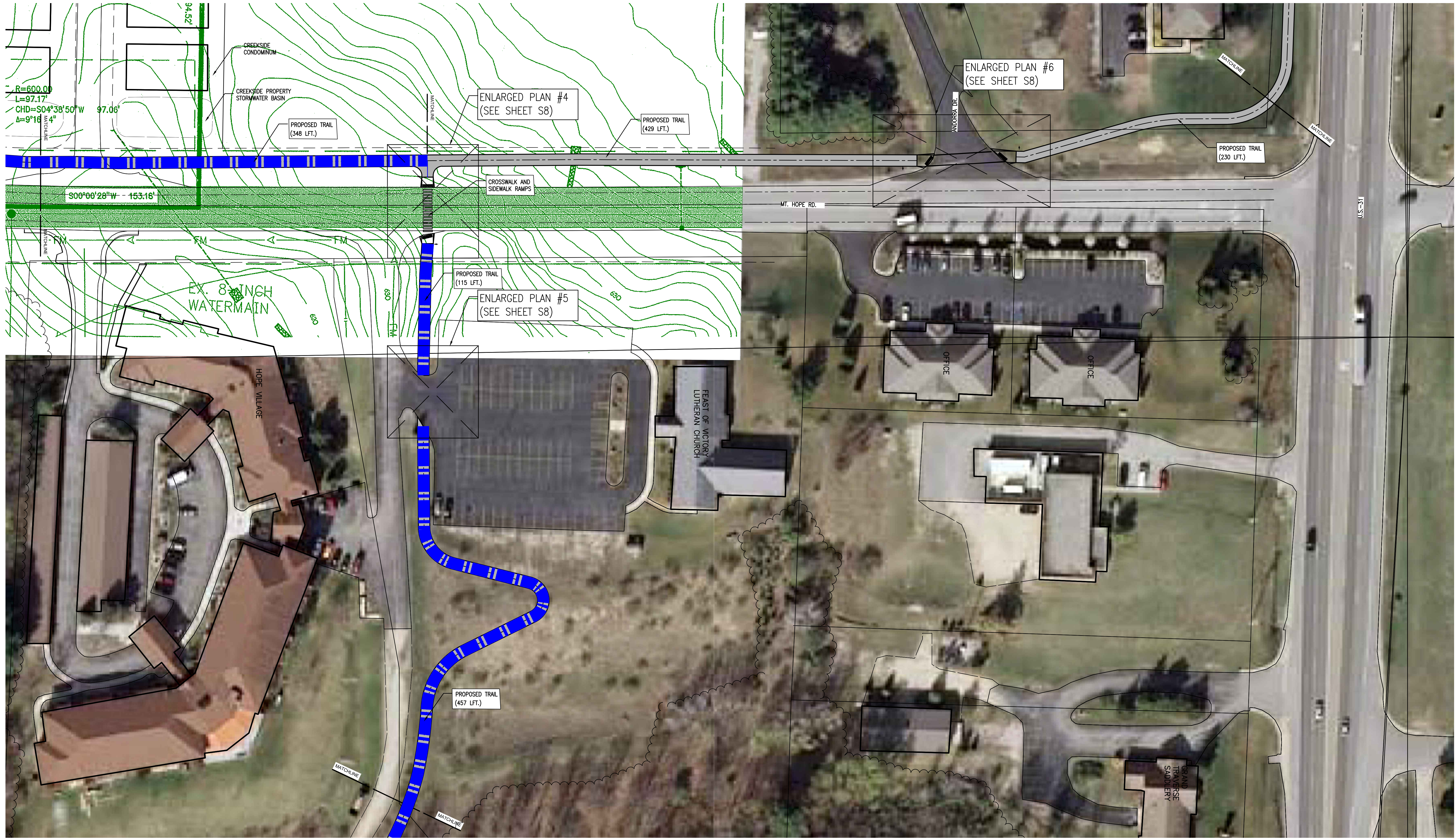
**MT. HOPE ROAD TRAIL OPTIONS  
 ACME TWP. TRAIL CONNECTORS  
 T.A.R.T. TRAILS**

Project No. 2015333001.01  
 Sheet **S3**

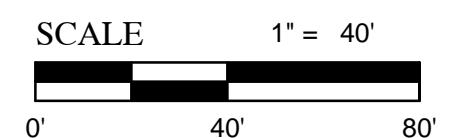
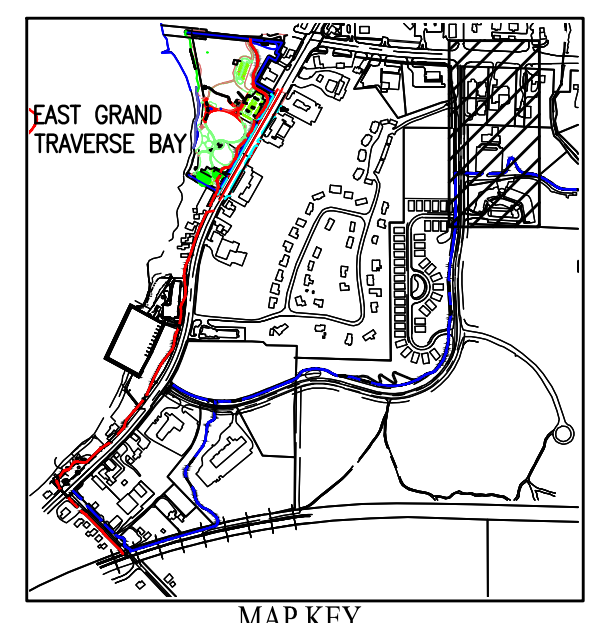
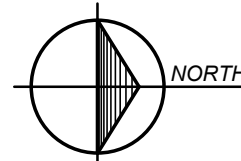
By: LMS LMS KDH KDH  
 Revision: ALIGNMENT UPDATES ALIGNMENT UPDATES PLAN INPUT UPDATES FINAL PLAN UPDATES  
 Date: 02-10-16 04-15-16 05-28-16 06-27-16  
 No: 1 2 3 4  
 Drawn By: Checked By:  
 Date: Scale: AS NOTED

Location: T-27 B.010, Section 3  
 WILLIAMSBURG ACME TOWNSHIP  
 GRAND TRAVERSE COUNTY, MICHIGAN

Saved by: kdheinet 7/5/2016 4:44 PM Plotted by: Klaus Heinert 7/5/2016 5:01 PM P:\2015333001.01\CADD-Data\201533300101 P-Site.dwg Tab: S3-Mt. Hope



**MT. HOPE RD. TRAIL**  
SCALE: 1" = 40'



**Gosling Czubak**  
ENGINEERING ARCHITECTS, INC.  
1200 BUSINESS PARK DRIVE  
231-946-9191 800-966-1082  
Fax: 231-941-4803



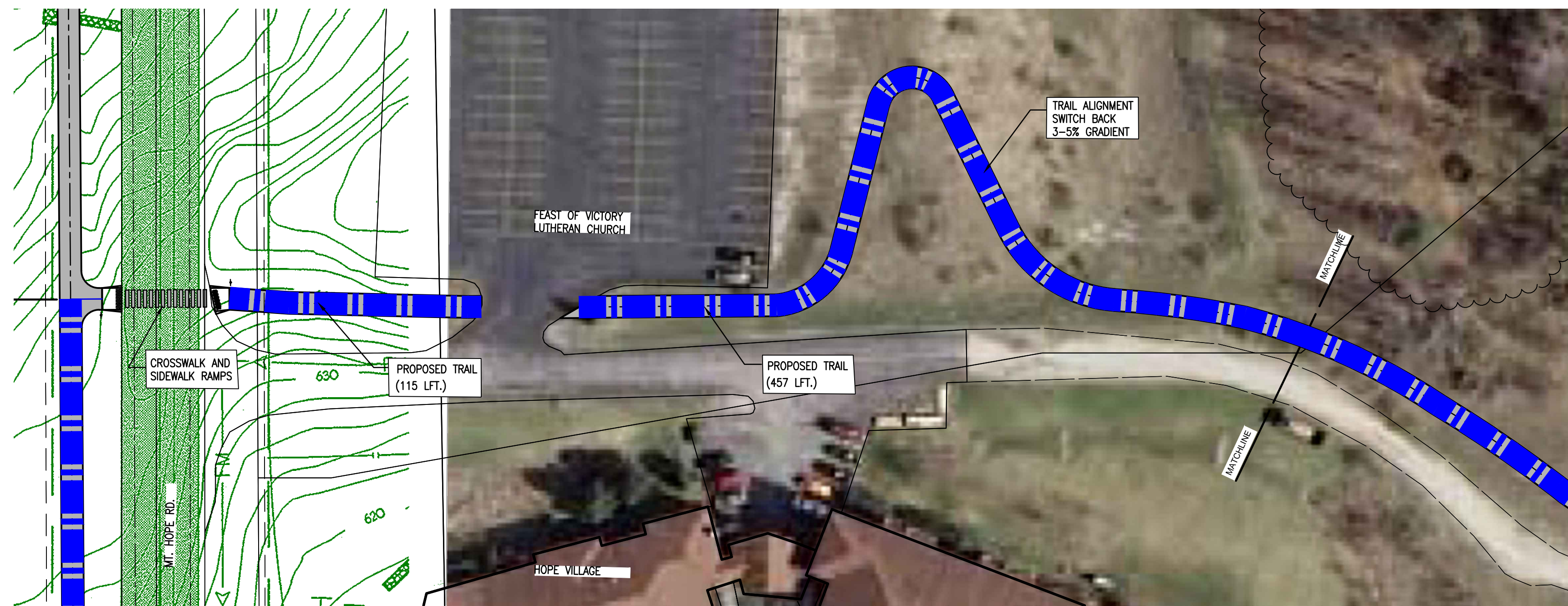
By:	LMS
Revision:	ALIGNMENT UPDATES
No.:	1 02-10-16
	2 04-15-16
	3 05-28-16
	4 06-27-16
Drawn By:	LMS
Checked By:	KCH
Date:	AS NOTED
Scale:	AS NOTED

Location:  
T-27, R-10W, Section 3  
WILLIAMSBURG ACME TOWNSHIP  
GRAND TRAVERSE COUNTY, MICHIGAN

**MT. HOPE ROAD TRAIL OPTIONS  
ACME TWP. TRAIL CONNECTORS  
T.A.R.T. TRAILS**

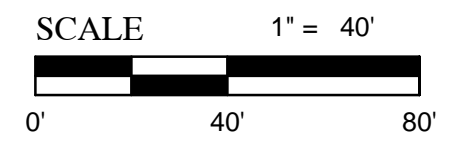
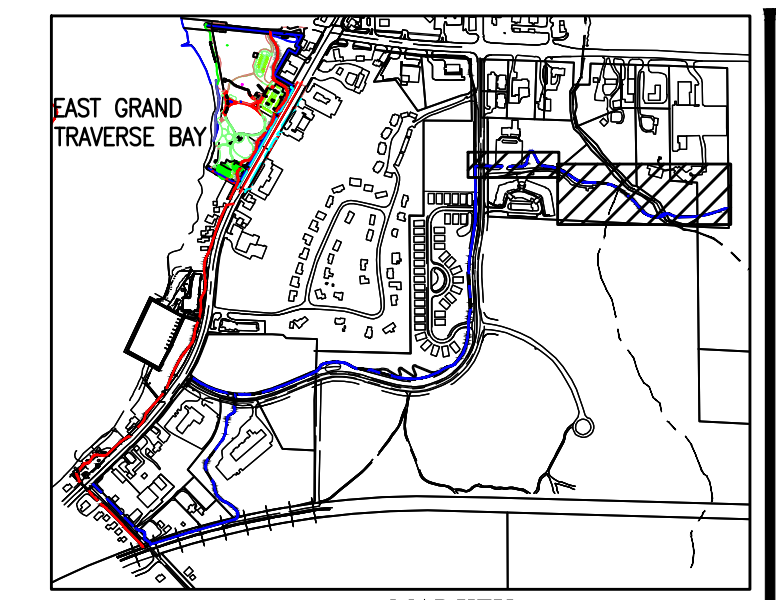
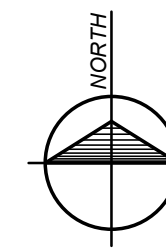
Project No.  
2015333001.01

Sheet  
**S4**



**HOPE RD. TO CONNECTION AT THE VILLAGE AT GRAND TRAVERSE**

SCALE: 1" = 40'



**Gosling Czuhak**  
 engineering sciences, inc.  
 1250 Business Park Drive  
 231-946-9191 • 800-966-1082  
 Fax: 231-941-4803



By:	LMS
Revised:	LMS
Alignment Updates	KCH
Plan Input Updates	KCH
Final Plan Updates	KCH
Date:	02-10-16
No.:	1
	2
	3
	4

Drawn By:	AS NOTED
Checked By:	AS NOTED
Date:	AS NOTED
Scale:	AS NOTED

Location:  
 T-27, R-10W, Section 3  
 WILLIAMSBURG ACME TOWNSHIP  
 GRAND TRAVERSE COUNTY, MICHIGAN

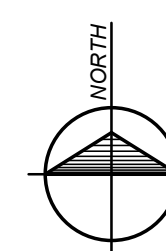
**ENLARGED PLANS**  
**ACME TWP. TRAIL CONNECTORS**  
**T.A.R.T. TRAILS**

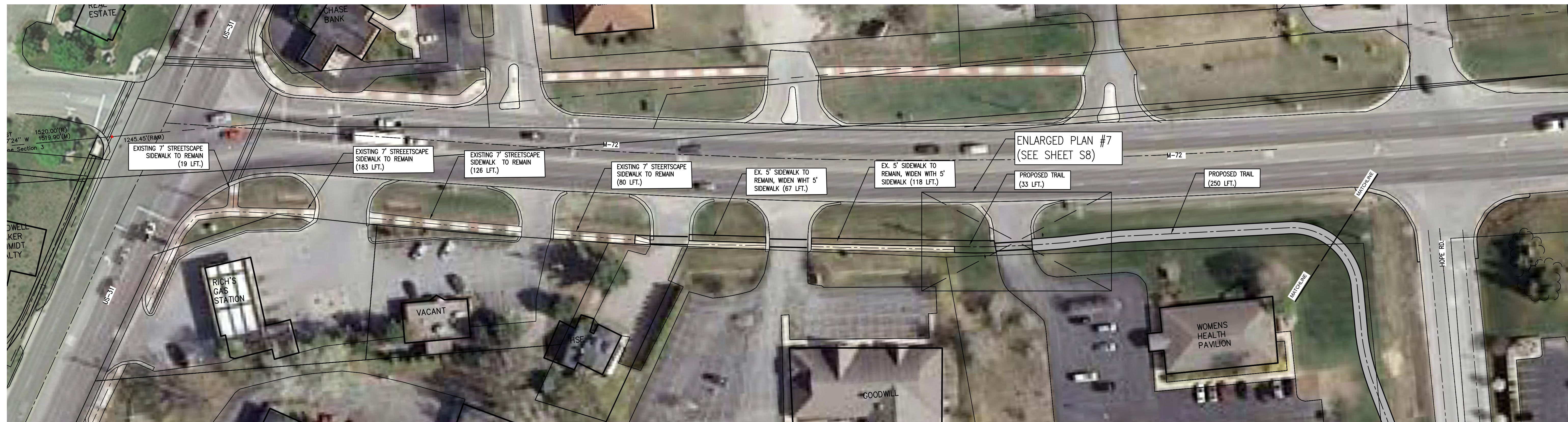
Project No.  
 2015333001.01  
 Sheet  
**S4A**



**HOPE RD. TO CONNECTION AT THE VILLAGE AT GRAND TRAVERSE**

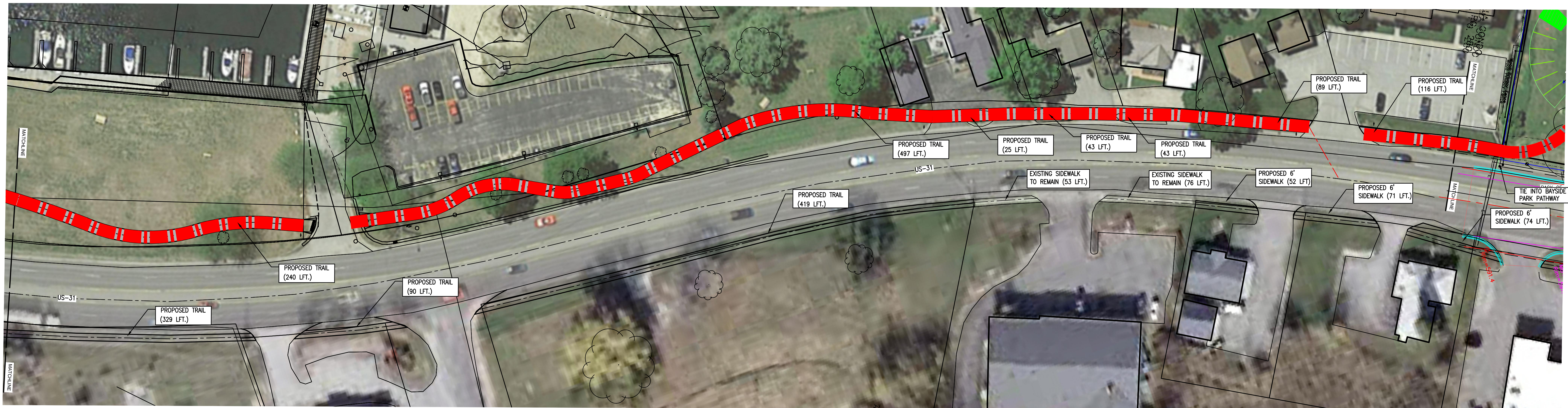
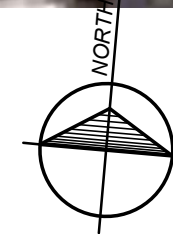
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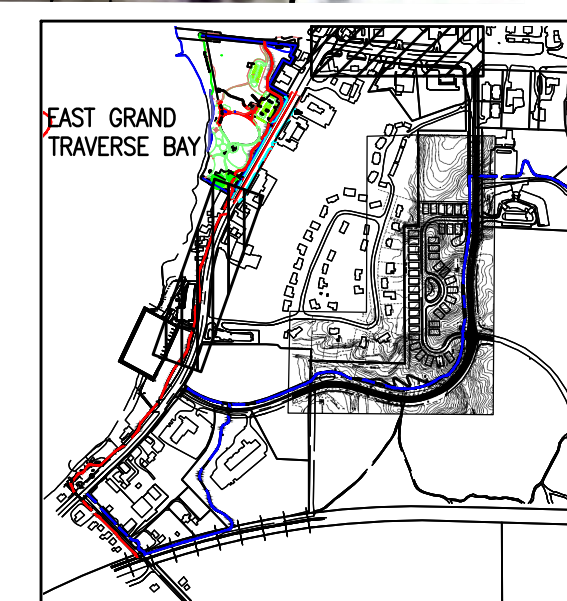
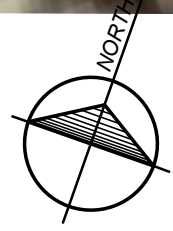
**M-72 TRAIL**

SCALE: 1" = 40'

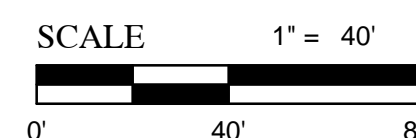


**US-31 TRAIL**

SCALE: 1" = 40'



MAP KEY



By:	US	US	US	KOH	KOH
Revisions:	ALIGNMENT UPDATES	ALIGNMENT UPDATES	PLAN INPUT UPDATES	FINAL PLAN UPDATES	
Date:	02-10-16	04-15-16	05-28-16	06-27-16	
No.:	1	2	3	4	

Drawn By:	Checked By:
Date:	Scale:
	AS NOTED

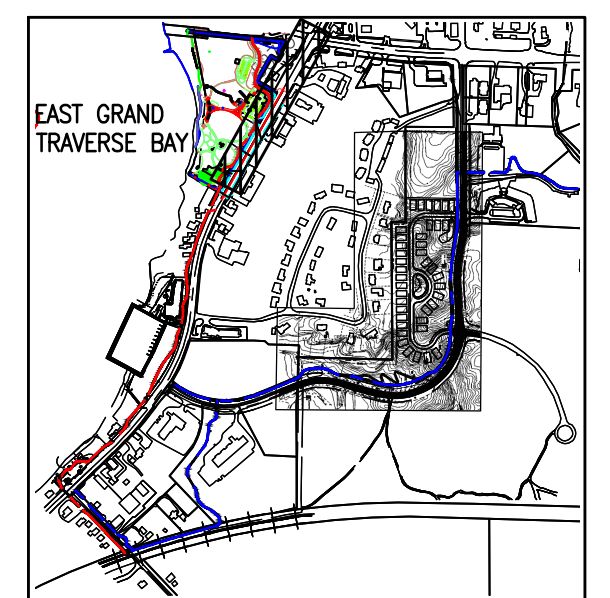
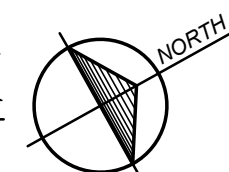
Location:  
 T.27 B.10W, Section 9  
 WILLIAMSBURG ACME TOWNSHIP  
 GRAND TRAVERSE COUNTY, MICHIGAN

**LAYOUT PLANS**  
**ACME TWP. TRAIL CONNECTORS**  
**T.A.R.T. TRAILS**

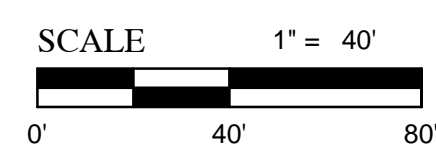


**US-31 TRAIL - NORTH BAYSIDE PARK**

SCALE: 1" = 50'



MAP KEY



**Gosling Czubak**  
 an engineering sciences, inc.  
 1298 Business Park Drive  
 231-946-9191 800-966-1062  
 Fax: 231-941-6603



By: LMS LMS LMS LMS  
 Alignment Updates  
 Alignment Updates  
 Plan Input Updates  
 Final Plan Updates

Date: 02-10-16  
 04-15-16  
 05-28-16  
 06-27-16

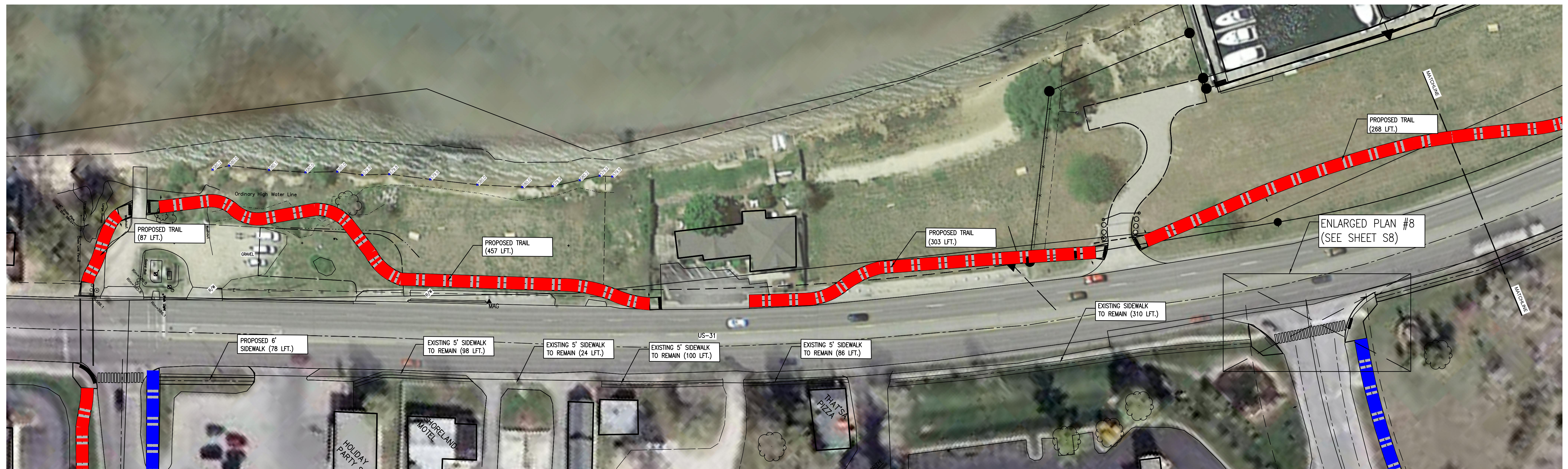
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 Checked By: KDH

Date: AS NOTED  
 Scale: AS NOTED

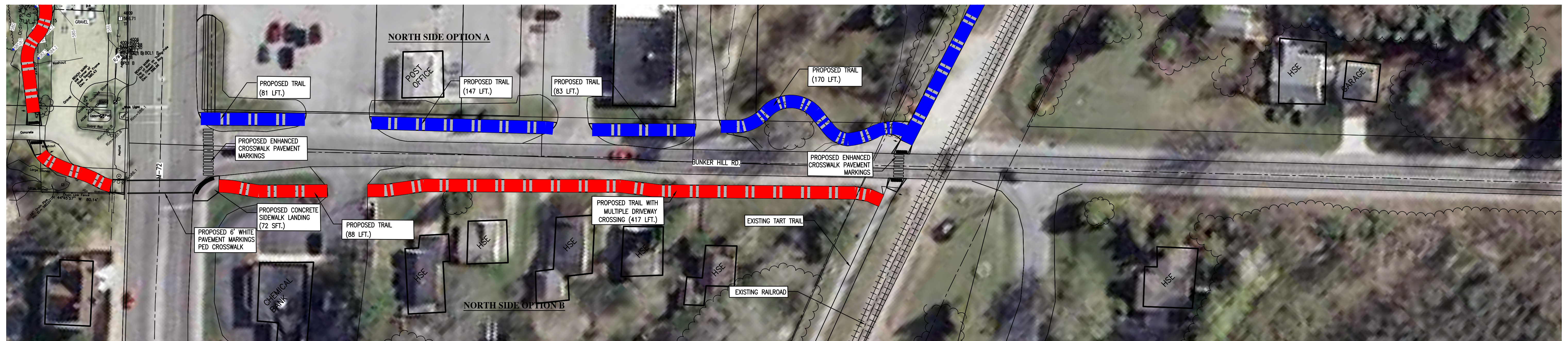
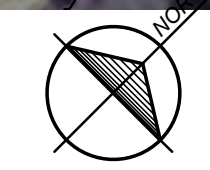
Location: T27 B.001, Section 9  
 WILLIAMSBURG ACME TOWNSHIP  
 GRAND TRAVERSE COUNTY, MICHIGAN

**LAYOUT PLAN  
 ACME TWP. TRAIL CONNECTORS  
 T.A.R.T. TRAILS**

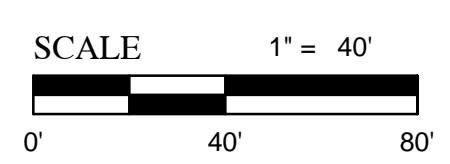
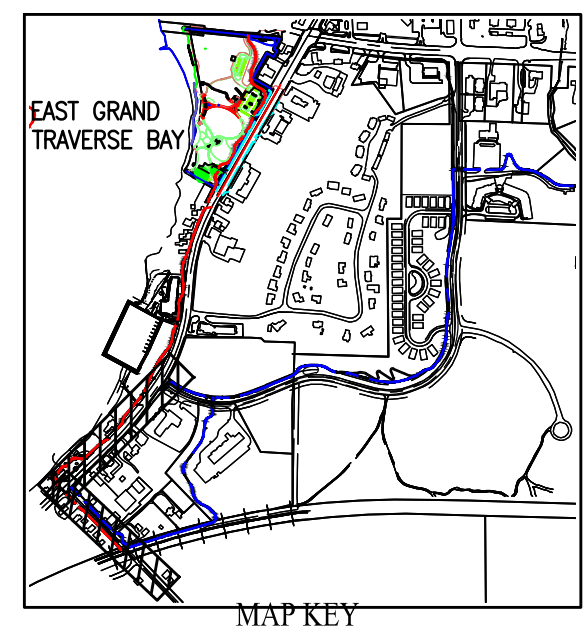
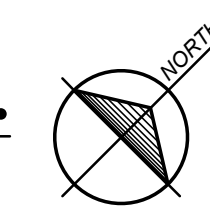
Project No.  
 2015333001.01  
 Sheet  
**S6**



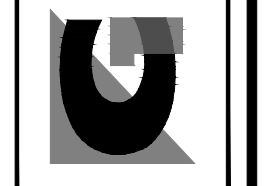
**US-31 TRAIL**  
SCALE: 1" = 40'



**BUNKER HILL RD.**  
SCALE: 1" = 40'



**Gosling Czubak**  
engineering & sciences, inc.  
1220 Business Park Drive  
Traverse City, MI 49781  
Tel: 231-946-9191 800-966-1062  
Fax: 231-941-6053



By: LMS LMS KDH KDH  
Revision: ALIGNMENT UPDATES  
ALIGNMENT UPDATES  
PLAN INPUT UPDATES  
FINAL PLAN UPDATES  
Date: 02-10-16  
04-15-16  
05-28-16  
06-27-16  
No: 1 2 3 4

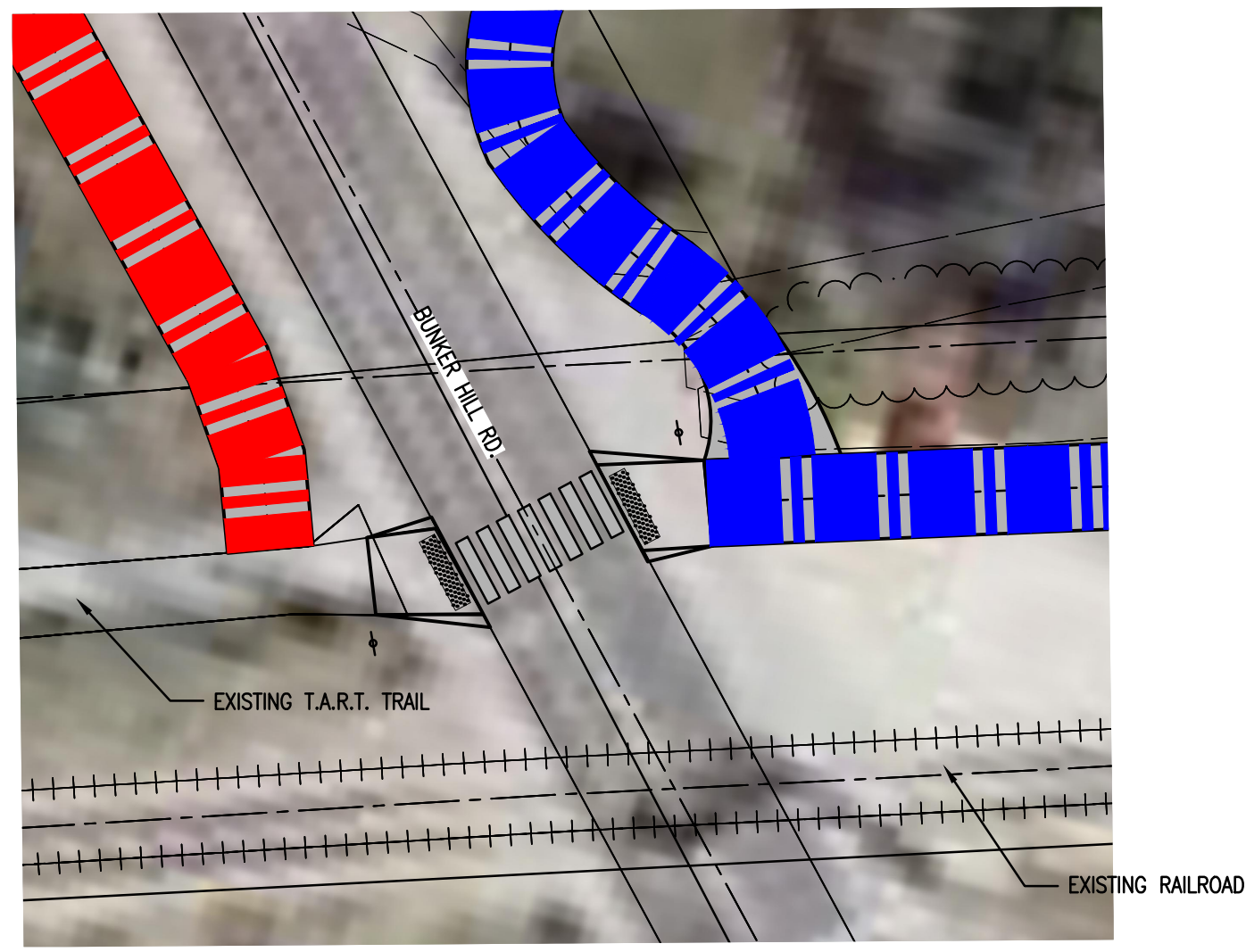
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Date: Scale: AS NOTED

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WILLIAMSBURG ACME TOWNSHIP  
GRAND TRAVERSE COUNTY, MICHIGAN

**LAYOUT PLANS**  
**ACME TWP. TRAIL CONNECTORS**  
**T.A.R.T. TRAILS**

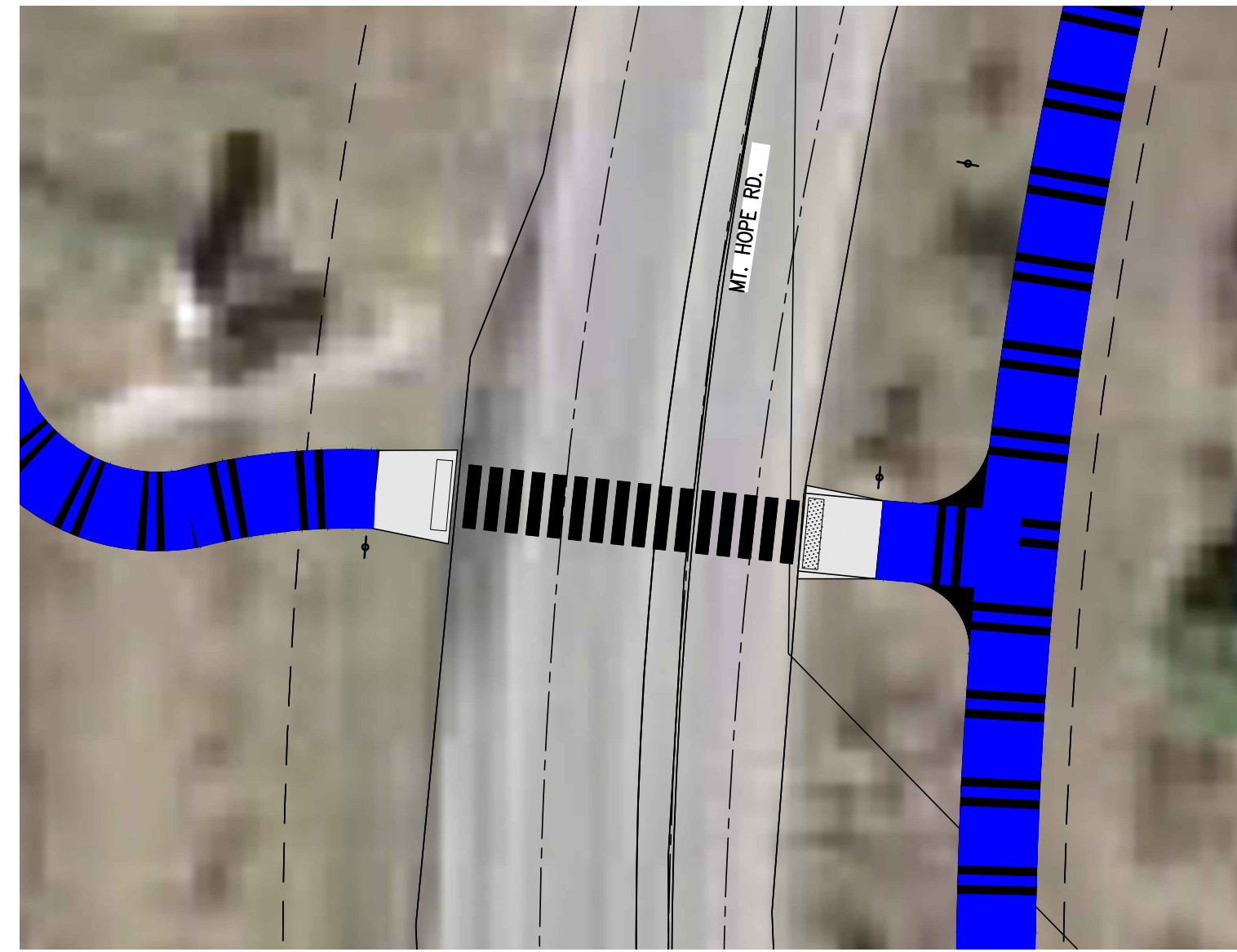
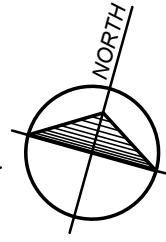
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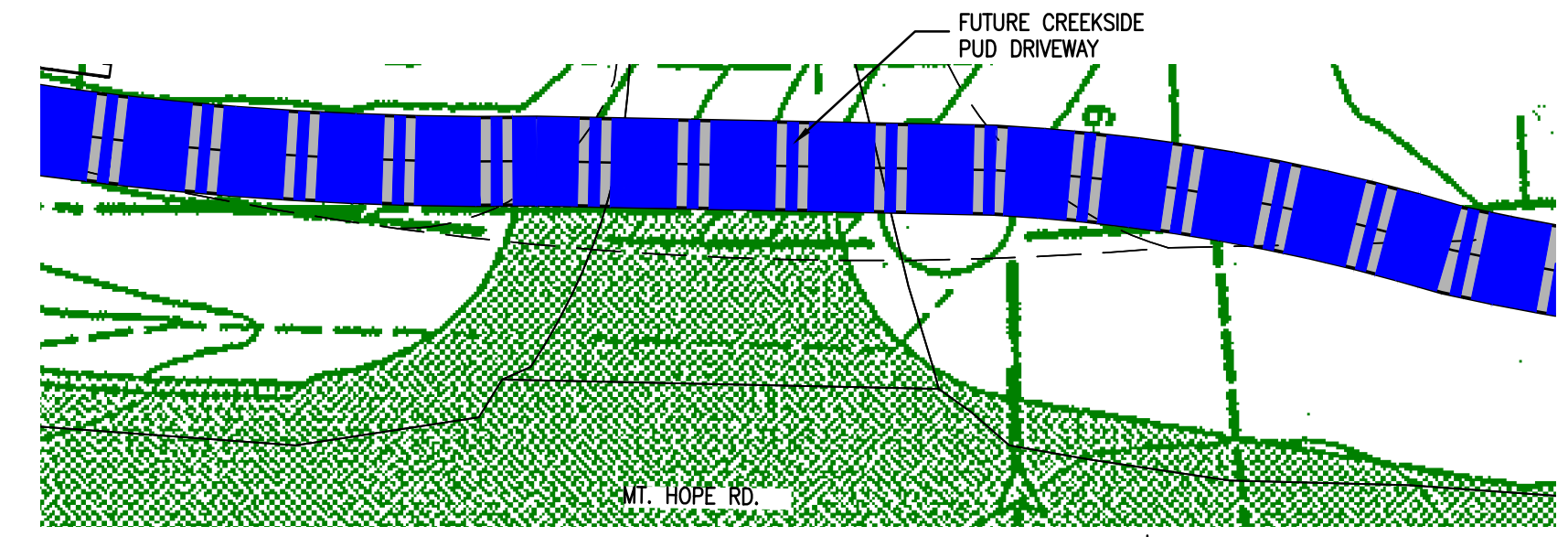
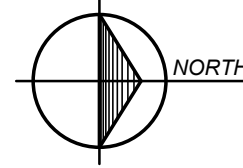
**ENLARGED PLAN #1**

SCALE: 1" = 20'



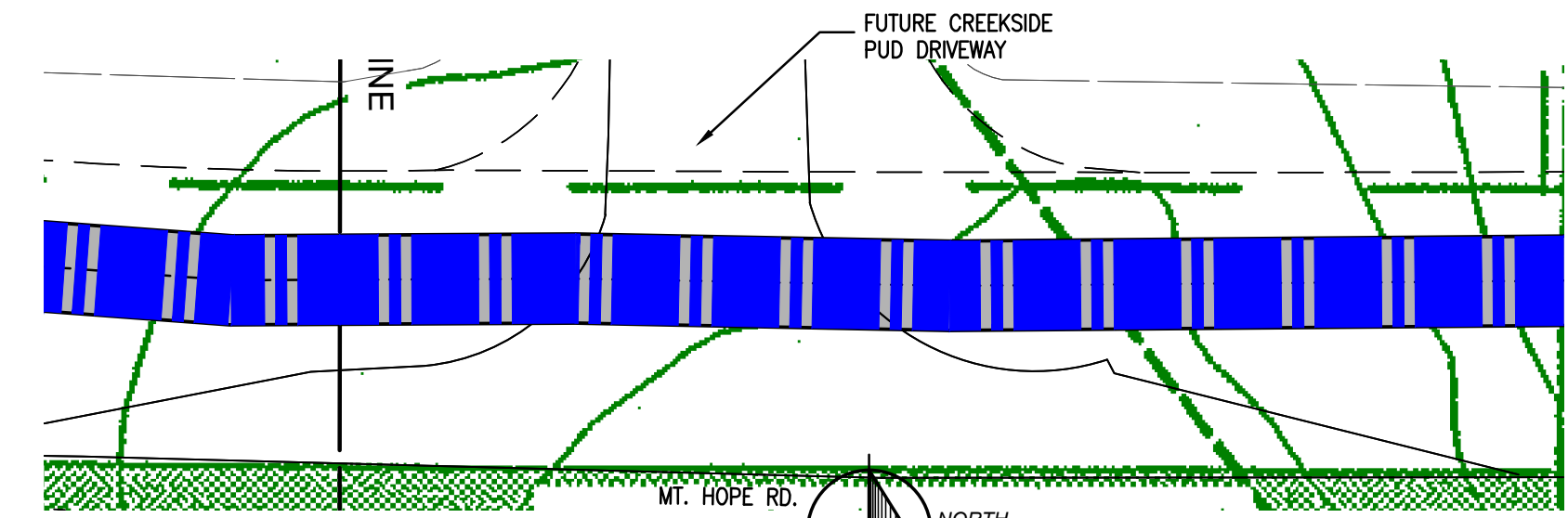
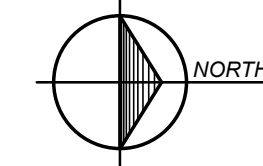
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SCALE: 1" = 20'



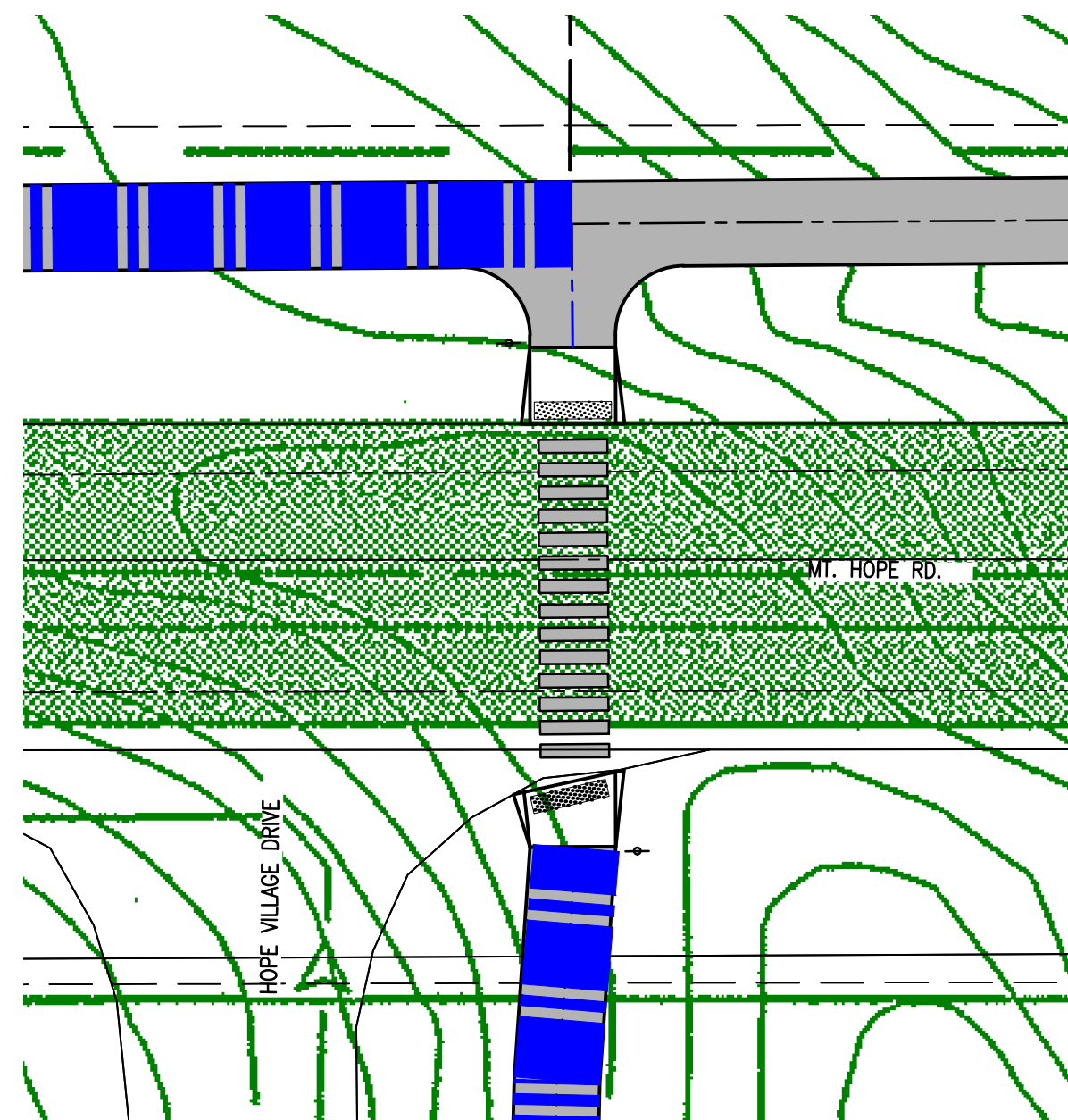
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SCALE: 1" = 20'



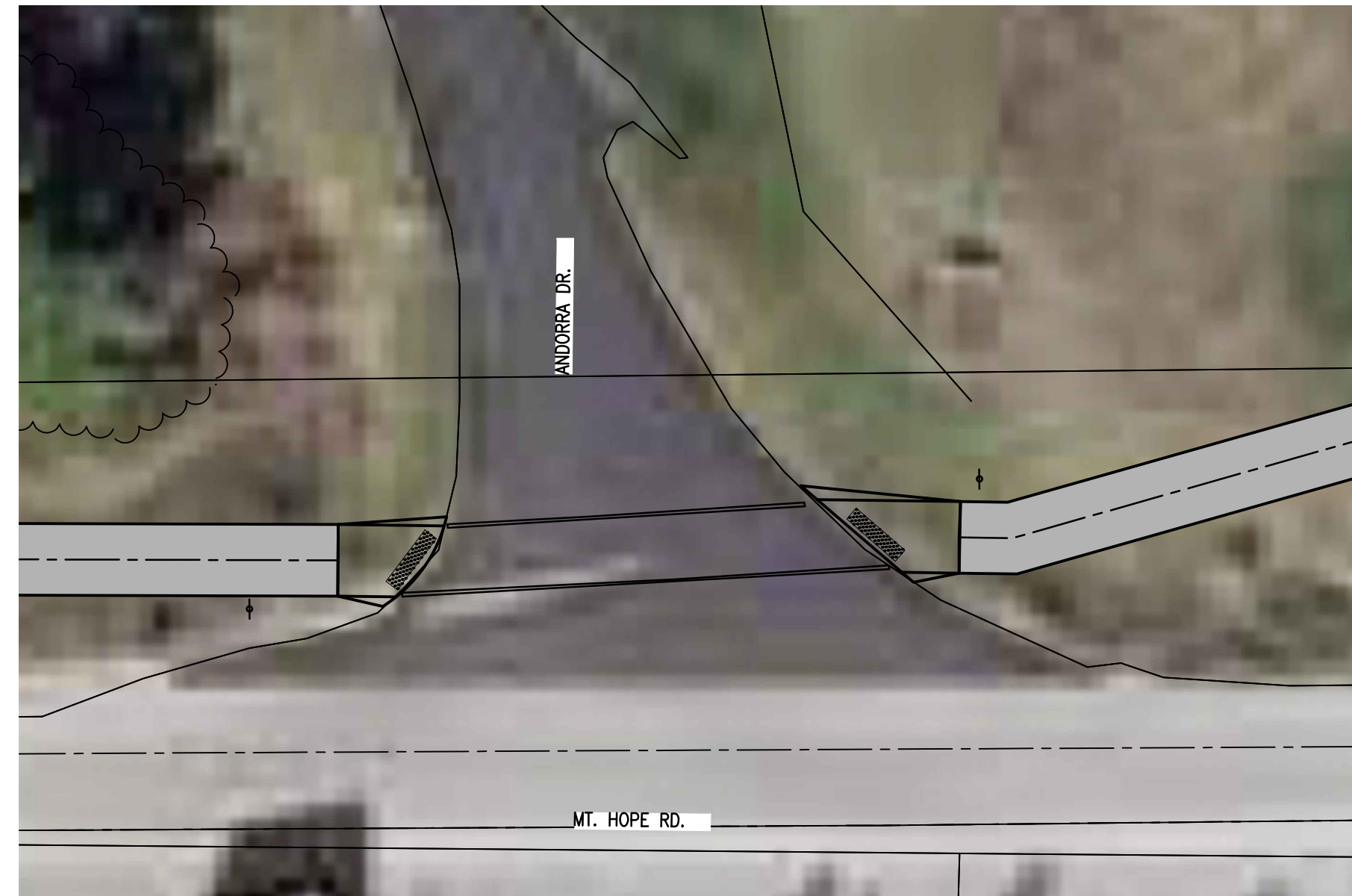
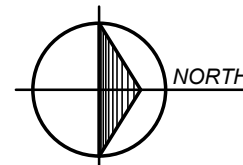
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SCALE: 1" = 20'



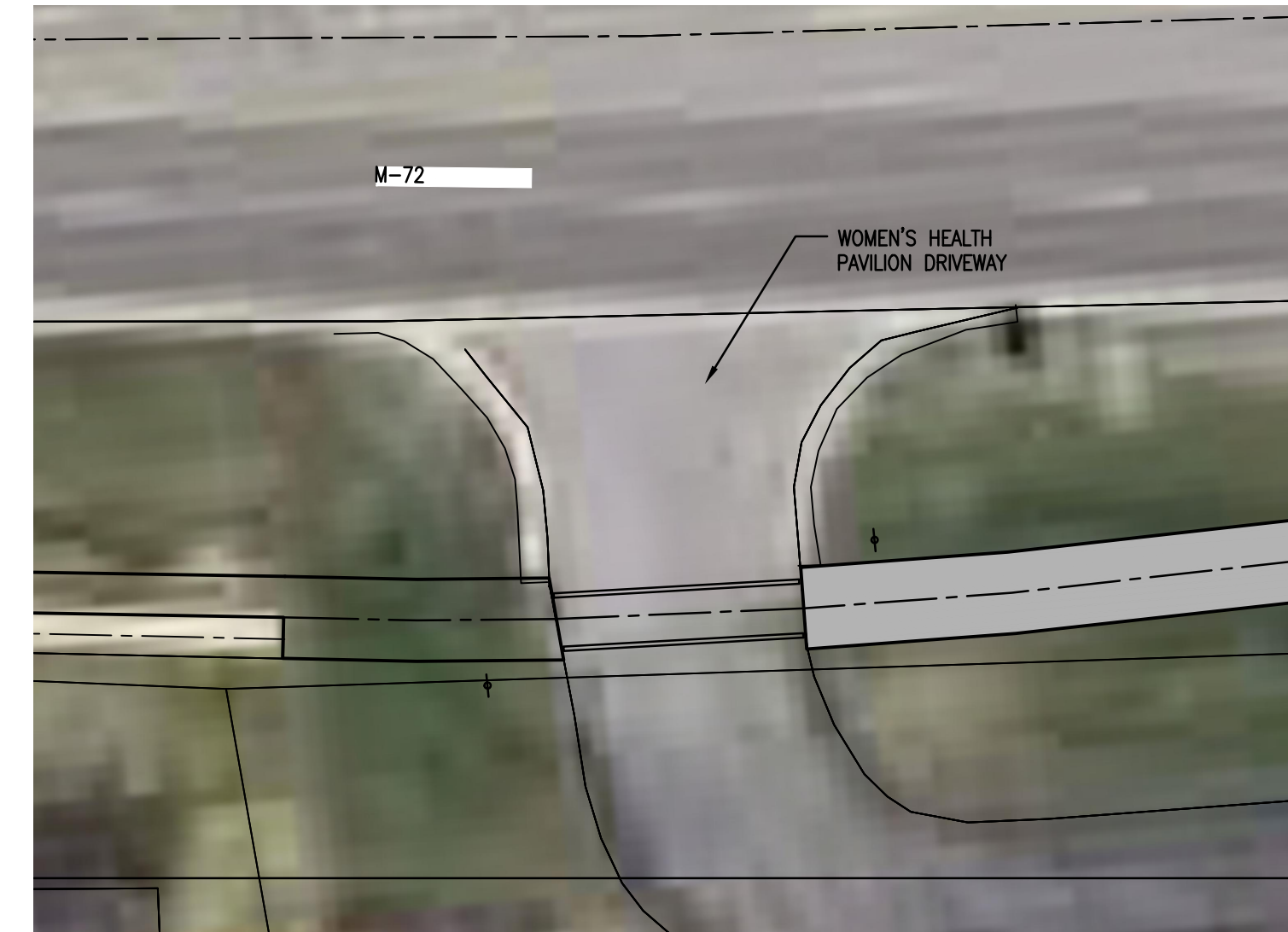
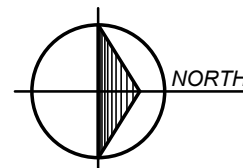
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SCALE: 1" = 20'



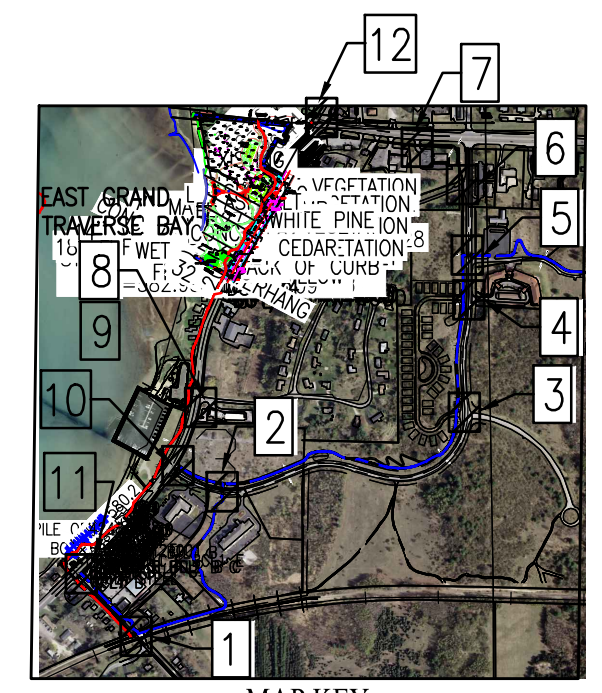
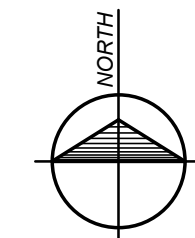
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SCALE: 1" = 20'

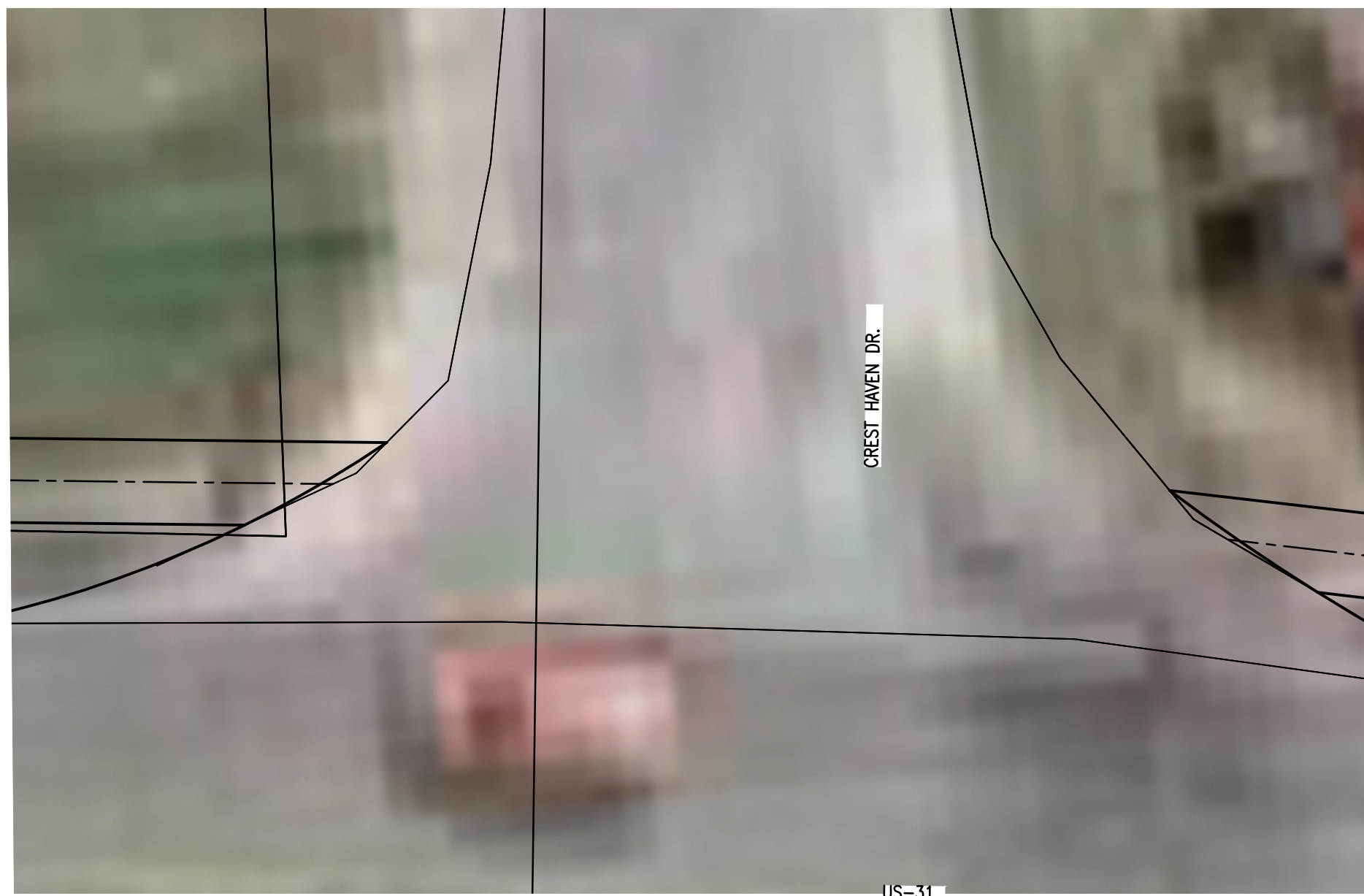


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SCALE: 1" = 20'

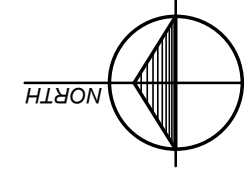


MAP KEY



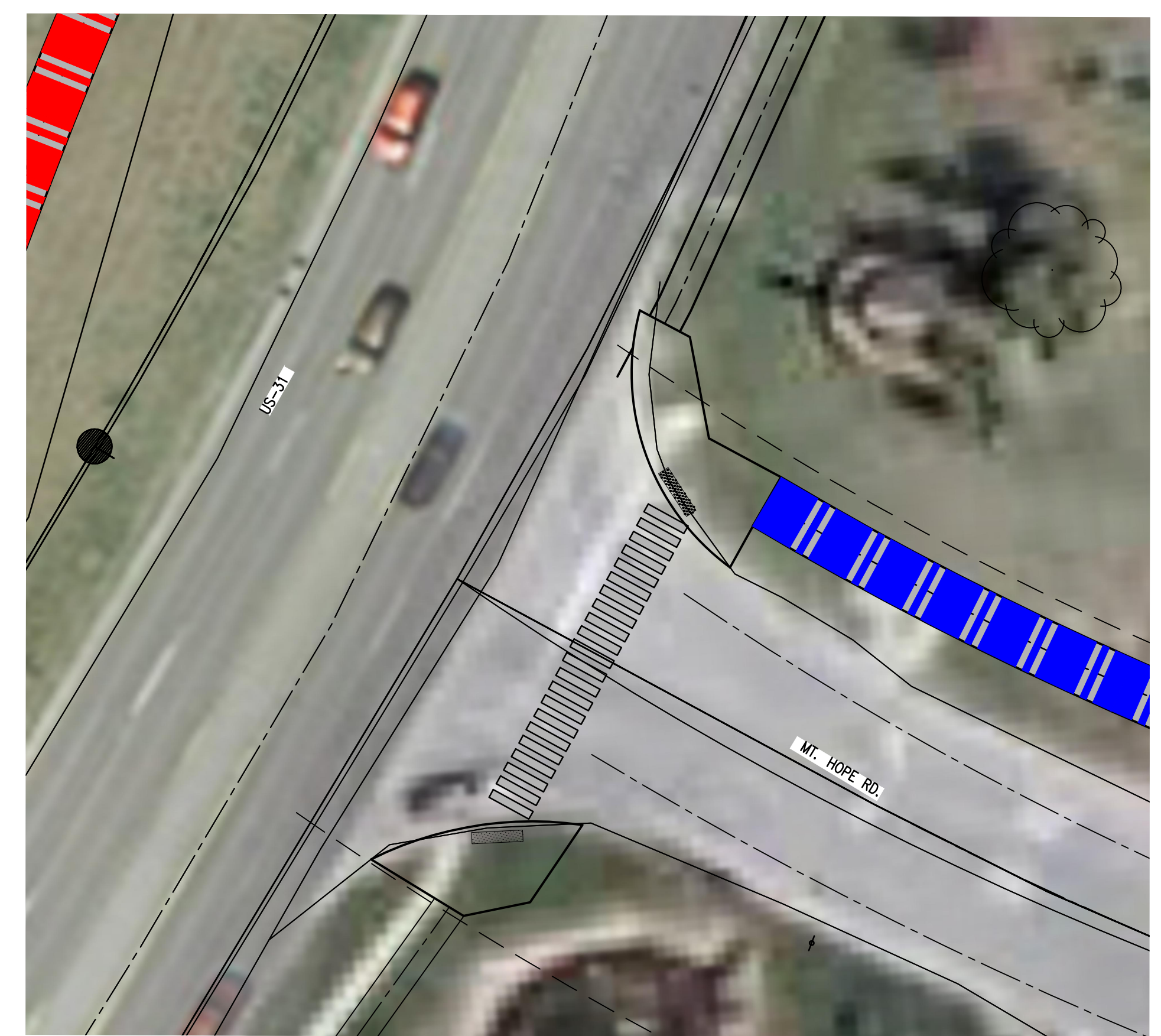
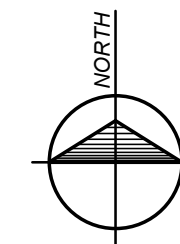
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SCALE: 1" = 10'



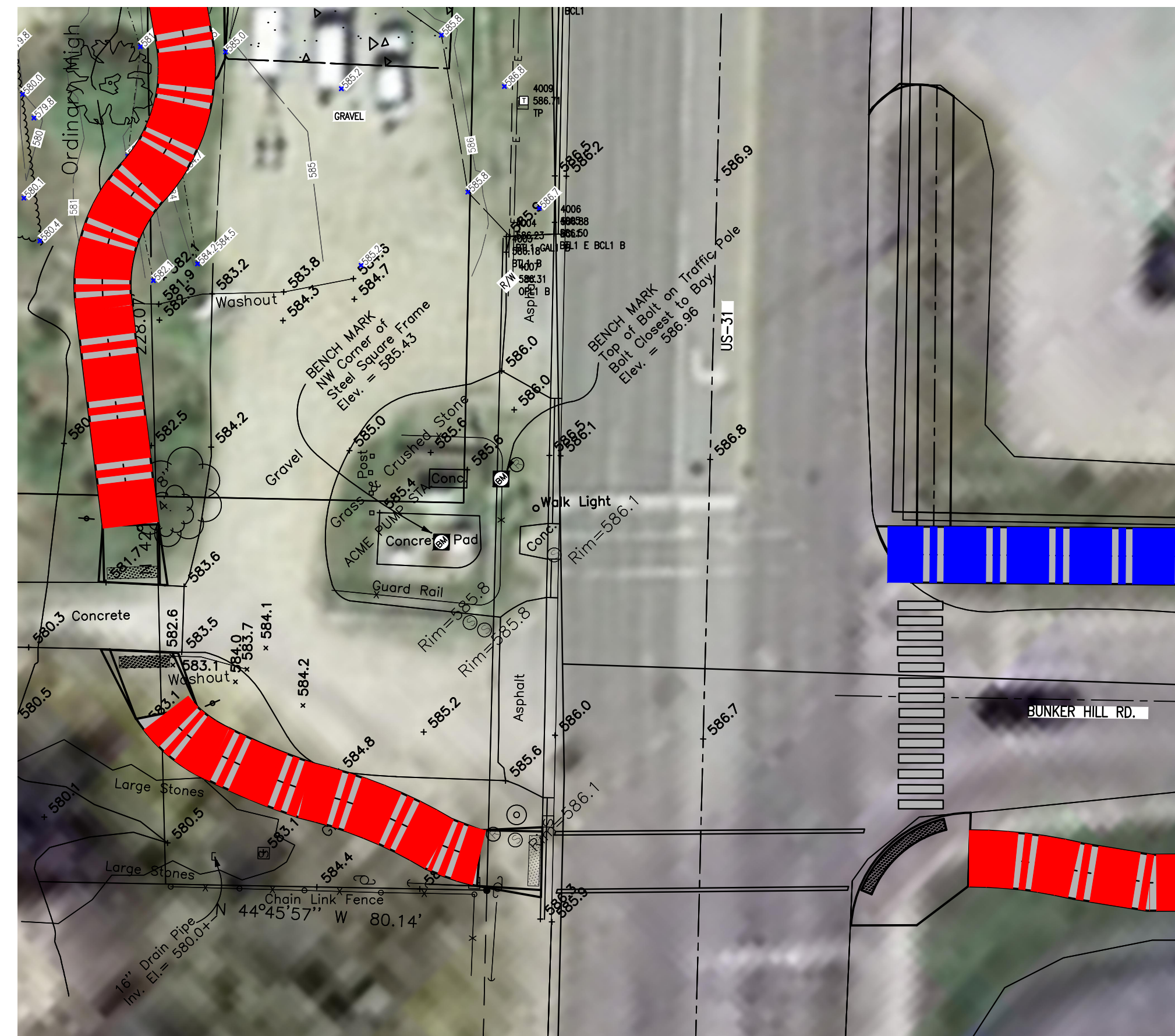
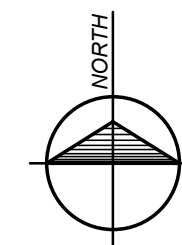
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SCALE: 1" = 10'



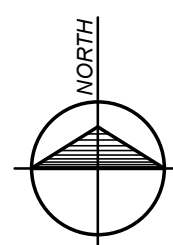
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SCALE: 1" = 20'



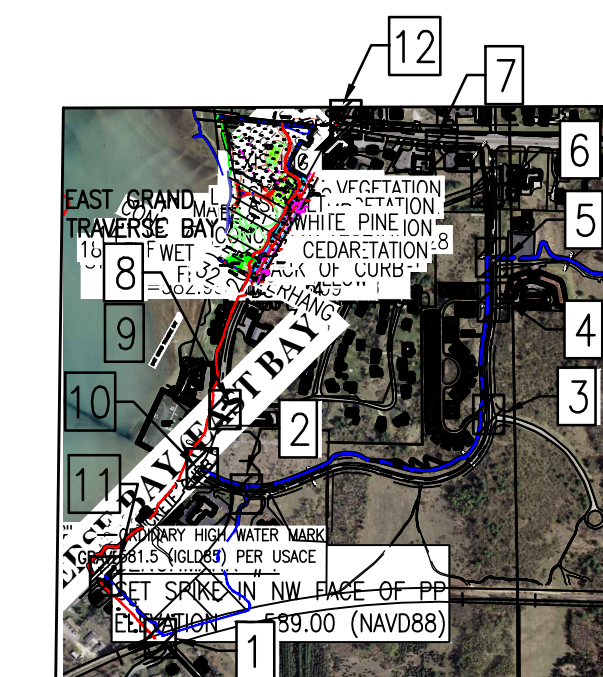
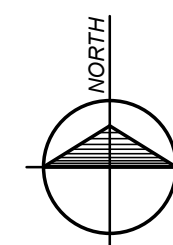
**ENLARGED PLAN #11**

SCALE: 1" = 20'



**ENLARGED PLAN #12**

SCALE: 1" = 20'



MAP KEY

**Gosling Czubak**  
 an engineering sciences, inc.  
 1298 Business Park Drive  
 231-946-9191 800-966-1062  
 Fax: 231-941-6603



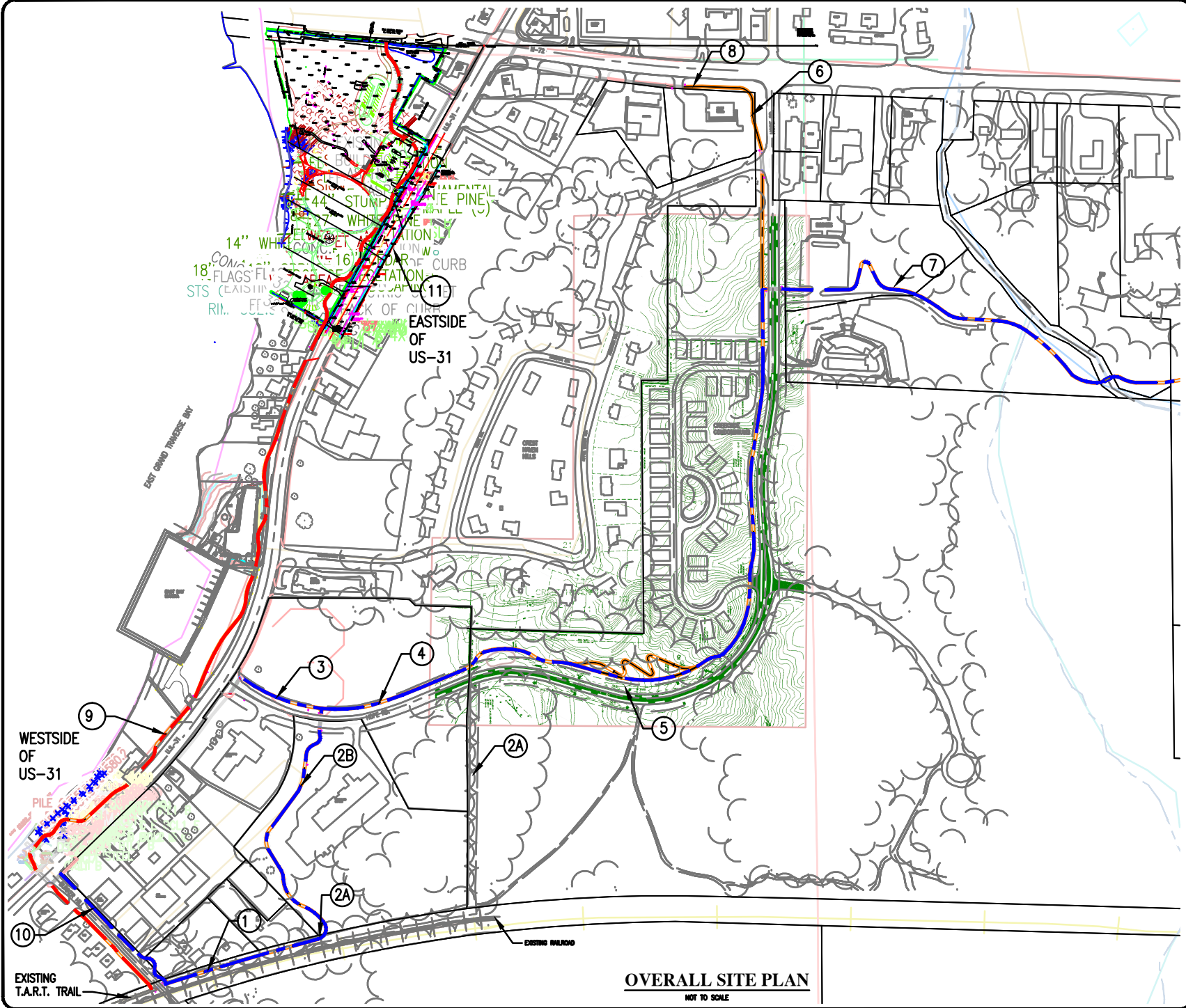
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Checked By:	KDH
Date:	02-10-16
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Revision:	ALIGNMENT UPDATES
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	PLAN INPUT UPDATES
	FINAL PLAN UPDATES
	04-15-16
	05-28-16
	06-27-16

Date:	AS NOTED
Scale:	AS NOTED

Location:  
 T.27 B. 00V, Section 3  
 WILLIAMSBURG ACME TOWNSHIP  
 GRAND TRAVERSE COUNTY, MICHIGAN

**CROSSING LOCATIONS  
 ACME TWP. TRAIL CONNECTORS  
 T.A.R.T. TRAILS**

Project No.  
 2015333001.01  
 Sheet  
**S9**



**OVERALL SITE PLAN**

NOT TO SCALE

P:\2015333001.01\GADD-Data\201533300101 P-Site.dwg Tab: Segment Keyplan. Saved by: kheinert 7/5/2016 4:44 PM Plotted by: Klaus Heinert 7/5/2016 5:07 PM

Client: **ACME TWP. TRAIL CONNECTORS**  
**T.A.R.T. TRAILS**  
 T-27, R.10W, Section 3  
 WILLIAMSBURG, ACME TOWNSHIP  
 GRAND TRAVERSE COUNTY, MICHIGAN

Sheet S-1  
 Job #: 2015333001.01  
 Date: 3/4/2015  
 Scale: AS NOTED  
 Drawn: LS  
 Chkd.:  
 Rev.:



**Gosling Czubak**  
 engineering sciences, inc.

- Engineers
- Surveyors
- Environmental Services
- Landscape Architecture

1280 Business Park Drive  
 Traverse City, MI 49666-8607  
 231-946-9191 800-966-1062  
 Fax: 231-941-4603

*Name of Municipality*

**RESOLUTION**

**A RESOLUTION SUPPORTING THE DEVELOPMENT OF THE TRAVERSE CITY TO CHARLEVOIX TRAIL CONNECTING THE TART TRAIL IN ACME TOWNSHIP TO THE LAKE TO LAKE TRAIL IN THE CITY OF CHARLEVOIX**

**WHEREAS**, *Name of Municipality* in association with the Traverse City to Charlevoix Trail Planning Committee, have had considerable input into the planning and of the multi-use, non-motorized trail and the assessment of a suitable route; and

**WHEREAS**, *Name of Municipality* Park and Recreation Plan (*and/or Master Plan*) supports the development of non-motorized trails and connected trail networks for transportation and outdoor recreation; and

**WHEREAS**, *Name of Municipality* believes that constructing the 46 mile Traverse City to Charlevoix Trail will connect two major multi-use trail networks, the TART Trail System and the Top of Michigan Trails Network to create a 325 mile northern Michigan regional trail system;

**WHEREAS**, Trails have demonstrated a positive impact on residents quality of life and the local economy, and;

**WHEREAS**, The Traverse City to Charlevoix Trail would have a positive benefit to our community, and;

**WHEREAS**, the *Traverse City to Charlevoix Trail Committee* is moving forward with the development of their trail plan and is seeking support, and;

**NOW, THEREFORE, BE IT RESOLVED**, that the *Name of Municipality* supports the development of the Traverse City to Charlevoix Trail and the positive benefits of trails.