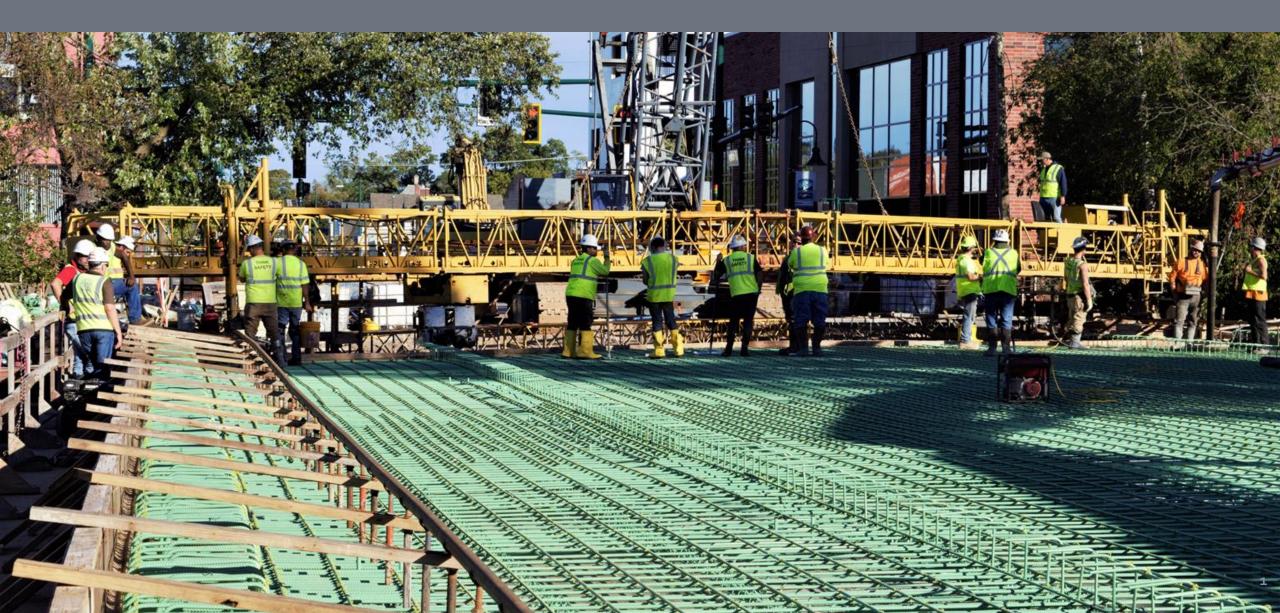
# 2021 Engineering Department Annual Report



### **Our Staff**



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### **Contact Information**

### Timothy Lodge, P.E. •City Engineer Alexander Yockey, P.E. •Civil Engineer II John McWethy • Public Services Assistant Zach Cole, P.E. •Civil Engineer I Kyle Kobylski, P.E. •Engineering Technician Brandon Glowacki •Engineering Aide Kaitlyn Aldrich Engineering Assistant

Staff Accolades: Staff completed over 90 hours of professional development training in topics such as traffic calming, Highway Bridges, Pavement Management and Design, MDOT Federal Aid, MDOT Concrete Paving, Right-of –Way, AASHTO Flexible **Pavement Preservation** Treatment, FHWA Proven Safety Countermeasures, MERL, Grand Traverse County Engineers Workshop, and ARCGIS.

City of Traverse City Engineering Department Governmental Center 2<sup>nd</sup> Floor 400 Boardman Avenue Traverse City, MI 49684 P: (231) 922-4460 Office F: (231) 922-4457

*Mission Statement:* To develop, implement, design, monitor and coordinate all public improvements constructed by or for the City.



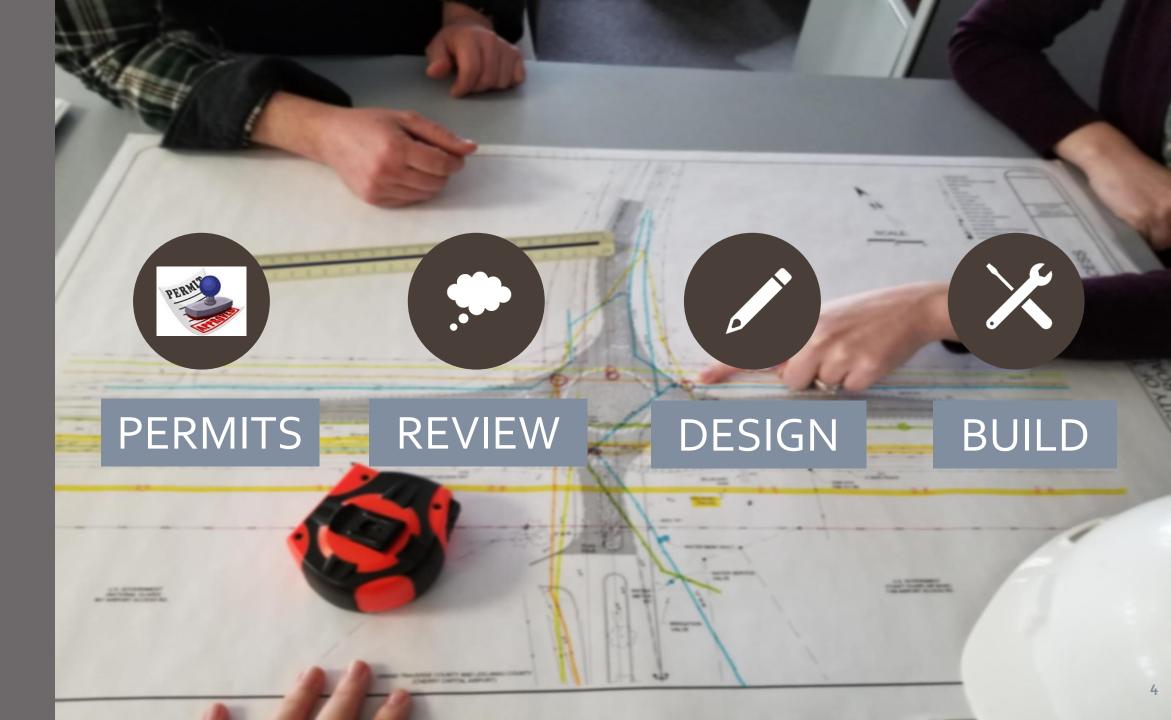
# Engineering Department Overview

# The work performed by the Engineering Department includes:

- Utility reviews in conjunction with land use permits, right-of-way permits, stormwater runoff control permits, and soil erosion permits
- Administration and inspection of right-of-way permits, stormwater runoff control permits, and soil erosion permits
- Motorized and non-motorized traffic counts and studies
- Engineering design of City infrastructure projects such as:
  - Street and Parking Lot Reconstruction and Resurfacing
  - Storm Water Quality, Sewer, and Water Systems
  - Bridge and Culvert Inspection, Load Ratings, Construction, and Rehabilitation
  - City Building Construction, Rehabilitation, and Renovation
  - Sidewalk Improvements, Repair, and Infill
  - Bike Paths and Trails
  - City Park and Bayfront Improvements
- Construction engineering and site inspection
- Contract administration

- Development of City engineering reports and guidelines for engineering best practices
- Historic record keeping for City projects
- Collaboration with numerous adjacent municipalities, advocacy groups, and private entities within the City limits
- Has representatives for numerous multi-jurisdictional committees, including:
  - Regional Bridge Council
  - Regional Transportation Planning and Traffic Assessment (TTCI)
  - North Region Pedestrian and Bicycle Committee (MDOT)
  - Assists in several other aspects of the City, including:
    - Ordinance Compliance and Development
    - Economic Development Projects
    - Asset Management
    - Budgeted Capital Improvements
    - Grant Applications
    - Transportation Planning

# What We Do



### Featured Project: E. Eighth St, S. Cass St, Park St Bridges Substantially Complete





### S. Cass Street Bridge:

- Bridge concrete arch rehabilitation including historic balustrade pedestrian railing, traditional streetscape, parking, and crash tested MDOT pedestrian railing.



### Park Street Bridge:

- Rehabilitation of the bridge superstructure including pedestrian scale lighting, traditional streetscape, increased sidewalk width, paint steel beams, patch damaged concrete, and installation of pedestrian railing.

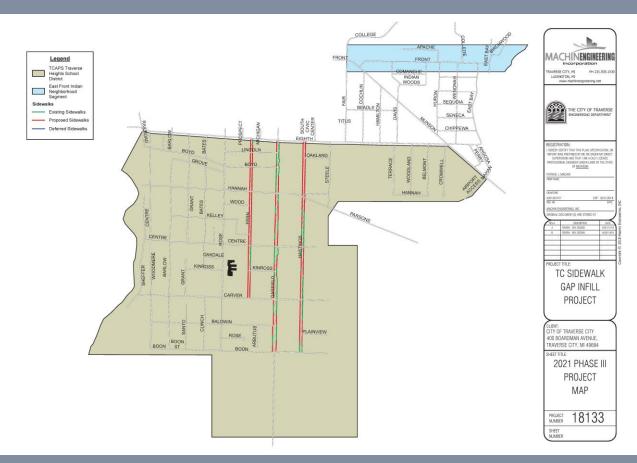
### E. Eighth Street Bridge:

- The work included concrete box beam deck removal and replacement, railing replacement, sidewalk widening, riverbank slope protection, approach work and related work including aesthetic treatments.

# Sidewalk Gap Infill Project Complete







This three-year project is intended to improve the walkability of the City of Traverse City. It is financed via a 15-year bond payment at approximately \$366,500/ year. The City partnered with Machin Engineering, Landtech, and Elmer's Crane & Dozer to complete the project. In 2021, 3.3 miles of new sidewalk was constructed in the areas of Traverse Heights and along Garfield Avenue. The total investment to date is \$3,178,334.51. 2021 marked the third and final year of the Gap and Infill project.

# West Boardman Lake Trail – Phase I





# West Boardman Lake Trail – Phase II



Phase I of the West Boardman Lake Trail was substantially complete in August of 2021. This new section of the trail is a one-mile paved segment between Fourteenth Street and Dendrinos Drive next to NMC's University Center. Two more phases of construction will follow: one segment to connect the University Center to Medalie Park – completing the Boardman Lake Loop Trail (began August 2021), and another that will connect the University Center to South Airport Road along Cass Road. This project is funded by numerous local, state, federal, and private dollars.





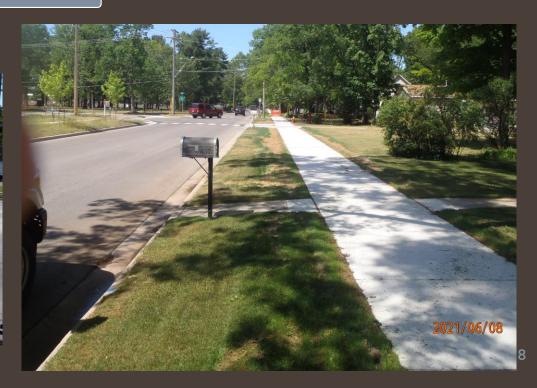
Resolution of Support for SRTS from City Commission

- Public Notice Mailings
- Application Submitted. Received Conditional Commitment from MDOT
- Announce Conditional Commitment, Gather Easement Information, Collect Data for SPHO
  - Submit Application for SHPO Approval
  - Receive SHPO Feedback, Meet with MDOT re: Preliminary Designs, Hold Public Open-House, Submit Final Application









### Kids Creek Culvert Crossing Project

The City of Traverse City and the Watershed Center Grand Traverse Bay have recently awarded a project to Elmer's Crane and Dozer Inc. known as the Kids Creek Crossing Project. The project consists of improving 3 road crossings in the City of Traverse City along Kids Creek.

The existing culverts are having a negative hydrological and hydraulic effect on the stream, and this project will remove the undersized culverts and replace them with clear span structures. There are two locations on Cedar Street and one location on Sixth Street. This project is substantially complete with the exception of watermain work to be completed in the spring of 2022.





### Kids Creek Pedestrian Bridges Trail Crossing Project





Replaced existing concrete box culverts with clear span pedestrian bridges in two locations on Kids Creek. This project is funded through a grant obtained by the Watershed Center Grand Traverse. Elmer's Crane & Dozer was hired to complete the work. One location is the old railroad grade between Division St and Silver Dr and was completed in conjunction with a paved path that is part of the Safe Routes to School Project.

The second location is where Kids Creek crosses the abandoned portion of Elmwood Avenue between 11<sup>th</sup> Street and Silver Lake Road. The project is substantially complete.

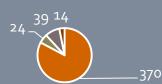
### Parsons Road and Airport Access Roundabout





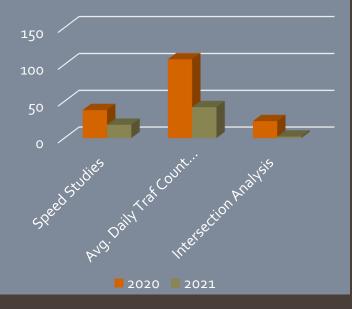
Replacement of the traffic signal at the Parsons and Airport Access Intersection with a roundabout using MDOT 2020 fiscal year funds and City funds. The project included pedestrian improvements to accommodate pedestrians who wish to cross at the intersection and provide easier access to the existing shared path that runs parallel to Parsons.

### PERMITS



- Right-of-Way
- Stormwater Run-off Control
- Soil Erosion
- Utility Review

### **TRAFFIC DATA**



### <u>Upcoming Projects</u>

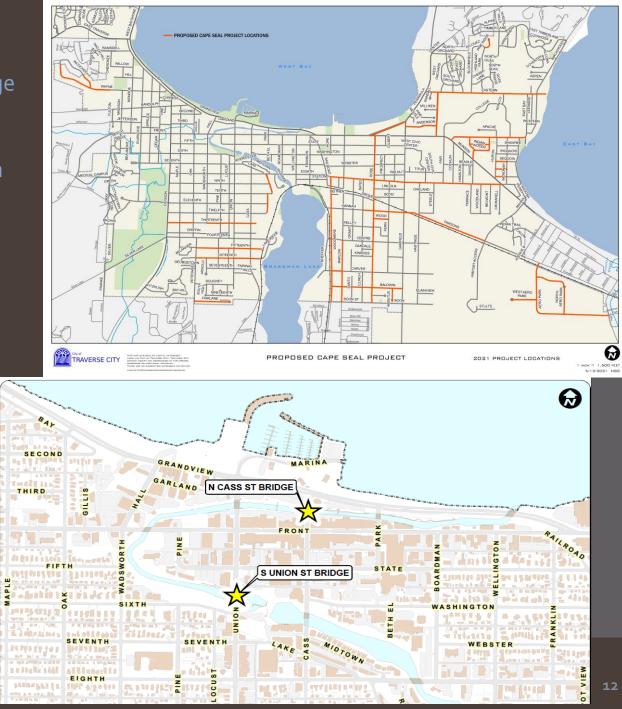
- North Cass Street Bridge
- South Union Street Bridge
- Pavement Preservation
- Cape Seal

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- Garfield Avenue
- Annual Street Reconstruction
- East Front Street Sanitary Sewer Rehabilitation
- Madison Street Reconstruction
- Jefferson Street Reconstruction
- US-31 Watermain Replacement
- Veterans Drive: 14<sup>th</sup> Street to Bay Hill Dr.
- Hickory Hills & other park projects



# THANKYOU

