

# Red Arrow Highway Union Pier Corridor Improvement Project

Presented by Kevin Stack, PE

Berrien County Road Department Interim Director







# Project Location



Red Arrow Highway (RAH) in Chikaming Township and New Buffalo Township from Community Hall Road to Berrien Street and Union Pier Road/Townline Avenue approximately 350 feet west of the RAH intersection

# Project Scope

- Road Diet
- Non-Motorized Path
- Storm sewer improvements
- Street Scape
- Trail head
- Pedestrian Control





# Project Scope



1 EXISTING STREET SIGNAGE

2 LEFT TURN AT UNION PIER ROAD ONTO SOUTHBOUND RED ARROW HIGHWAY

3 VIEW AT AT UNION PIER ROAD LOOKING NORTH ON RED ARROW HIGHWAY

4 CROSSWALKS DO NOT LINE UP WITH SIDEWALK LOOKING NORTH ON RED ARROW HIGHWAY



5 TOWNLINE ROAD LOOKING WEST TOWARD BEACH PARKED CARS PROTRUDE INTO ROADWAY

6 SIGN TRAFFIC REAGED EAST ON UNION PIER ROAD

7 VIEW LOOKING NORTH ON RED ARROW HIGHWAY

# Agencies Involved

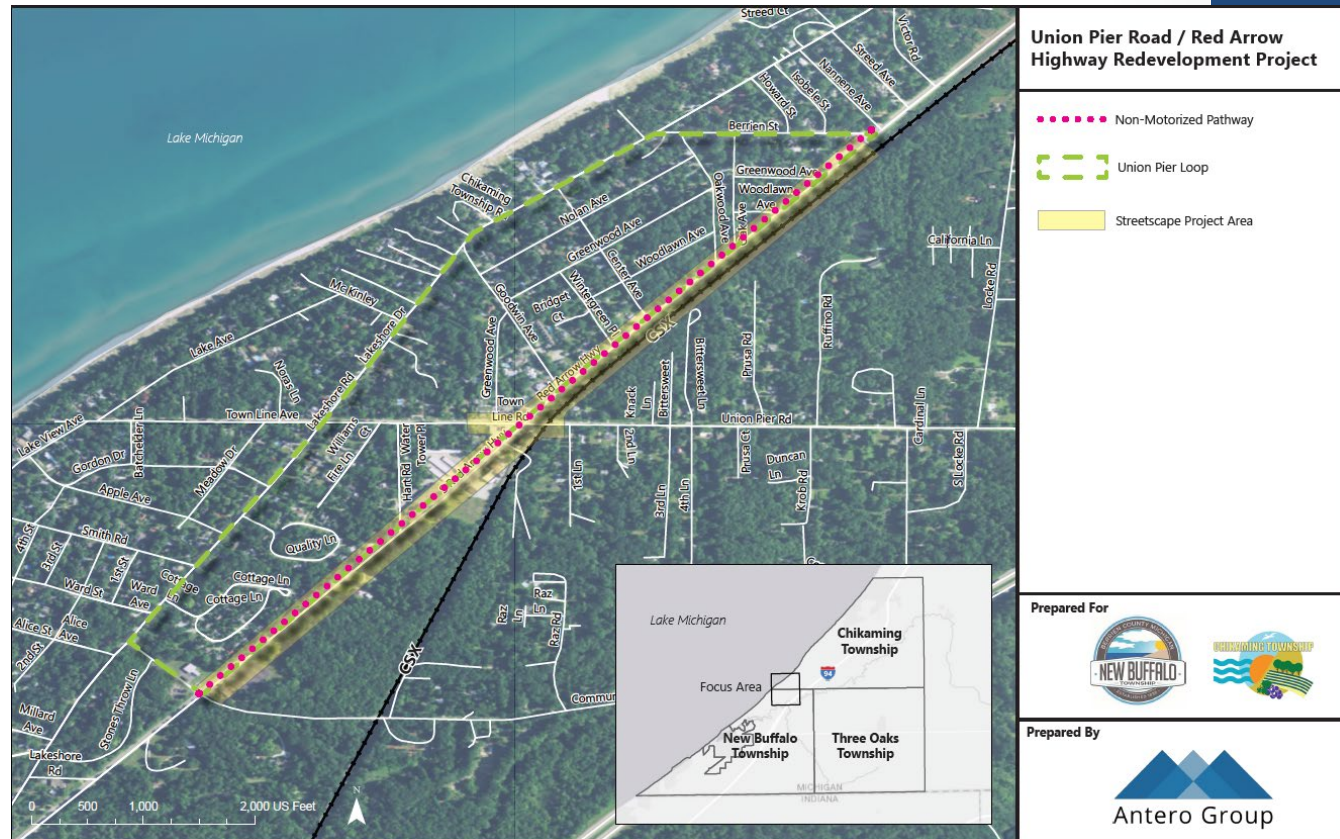
- Berrien County Road Department (BCRD)
- Chikaming Township
- New Buffalo Township
- Michigan Department of Transportation
- The Pokagon Fund
- USDA
- Antero Group
- Wightman
- Kalin Construction
- Galien River Sanitary District Sewer Authority (GRSDS)
- Federal Highway Administration (FHWA)





# Target Groups/Beneficiaries

- Local businesses
  - Business owners
- Residents
- Pedestrians
- Cyclists
- Motoring public

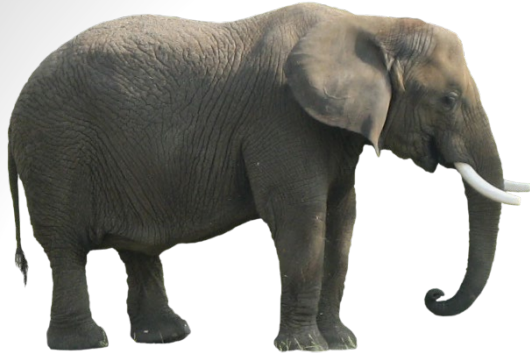


# Timeline

- 2018: Planning and public outreach
- 2019: Project design
- 2020: Construction began
  - Phase 1: August – Early October
    - Construction along east lanes of RAH
    - Reconstruction of intersection at Union Pier Road
  - Phase 2: Early October – Mid November
    - Construction along west side of RAH
    - Sidewalks and Ramps
- 2021: Project completed
  - Phase 3: Spring 2021
    - Non-motorized path
    - Streetscaping elements







# Road "Diets"

"The Federal Highway Administration cites benefits of such road diets being a 19-47 percent reduction of rear-end and left turn crashes through the use of a dedicated left-turn lane."

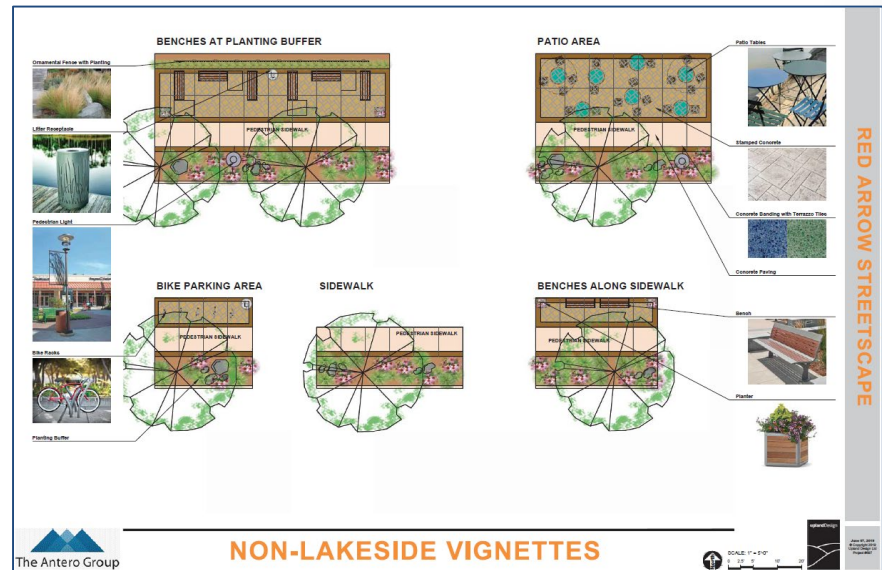
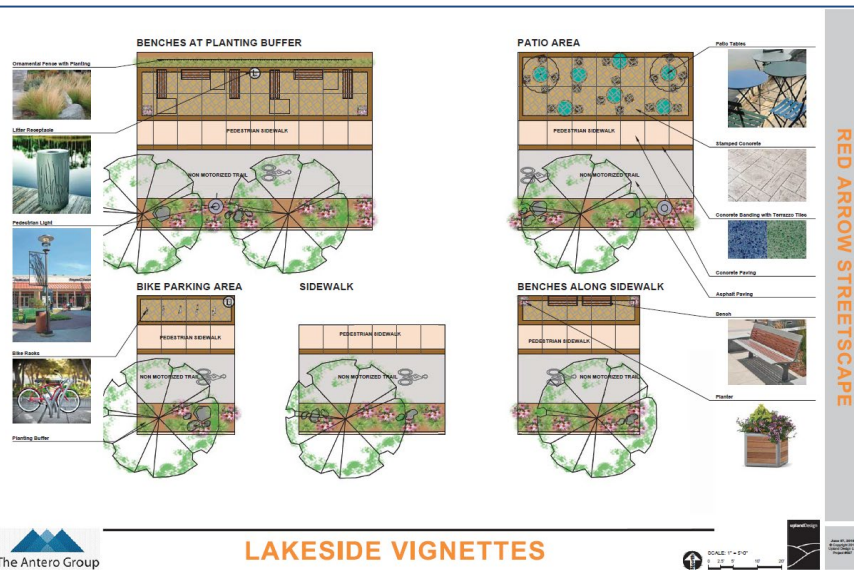
"...the estimated number of events requiring reroute from I-94 to this section of Red Arrow Highway is four two-hour events per year. This amounts to eight hours per year or 0.09 percent of the time."



# Distinctive Features

- Streetscaping and reconstruction of the road
  - Including reconstruction of stormwater infrastructure
- RAH road lane reconfiguration
- Sidewalks

- Lighting
- Pedestrian crossing system
- 10 foot wide non-motorized path
- Public restroom facility
- Parking area





## COLOR PALETTE



## PAVING

Main Walkway: Colored Concrete

Accent Paving: Colored Stamped Concrete. Ashlar pattern in tans with warm tones edge banding and accents of blue and green tiles.



## LAYOUT



## FURNITURE & PLANTING



STYLE CONCEPT

# UNION PIER STREETSCAPE

Non-Motorized Pathway

Patio Area

Pedestrian Sidewalk

Seating Area with Benches and Pots

Bike Parking Area

Potential Future Public Parking

GREENWOOD AVE

Black Current Bakehouse & Union Pier Market

Milda's Corner Market

Pumpkinickie Inn & Icey's Gelato

Frank's Place

COOYEN

UNION PIER RD.

Matchline A

Planting Buffer  
Patio Area  
Tree Wall around Existing Tree  
Parking Lot  
Benches at Planting Buffer

RED ARROW STREETSCAPE

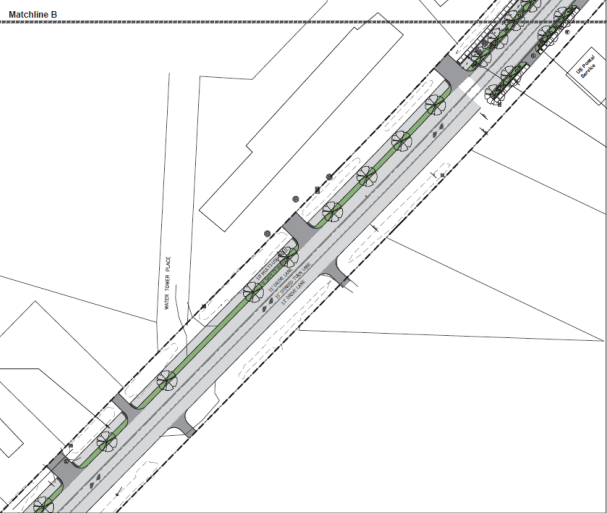


## TOWN LINE AVENUE INTERSECTION

SCALE: 1" = 30'-0"



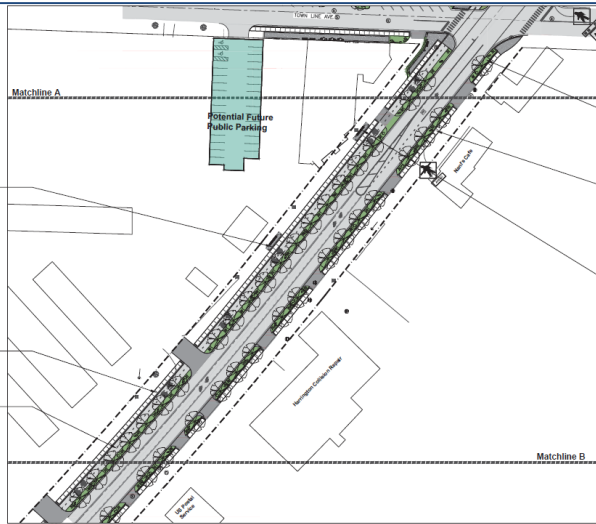
June 01, 2018  
Revised: 06/01/2018  
City of Union Pier  
Project #018



## WATER TOWER PLACE

SCALE: 1" = 30'-0"

RED ARROW STREETSCAPE



## TOWN LINE AVENUE- SELF STORAGE

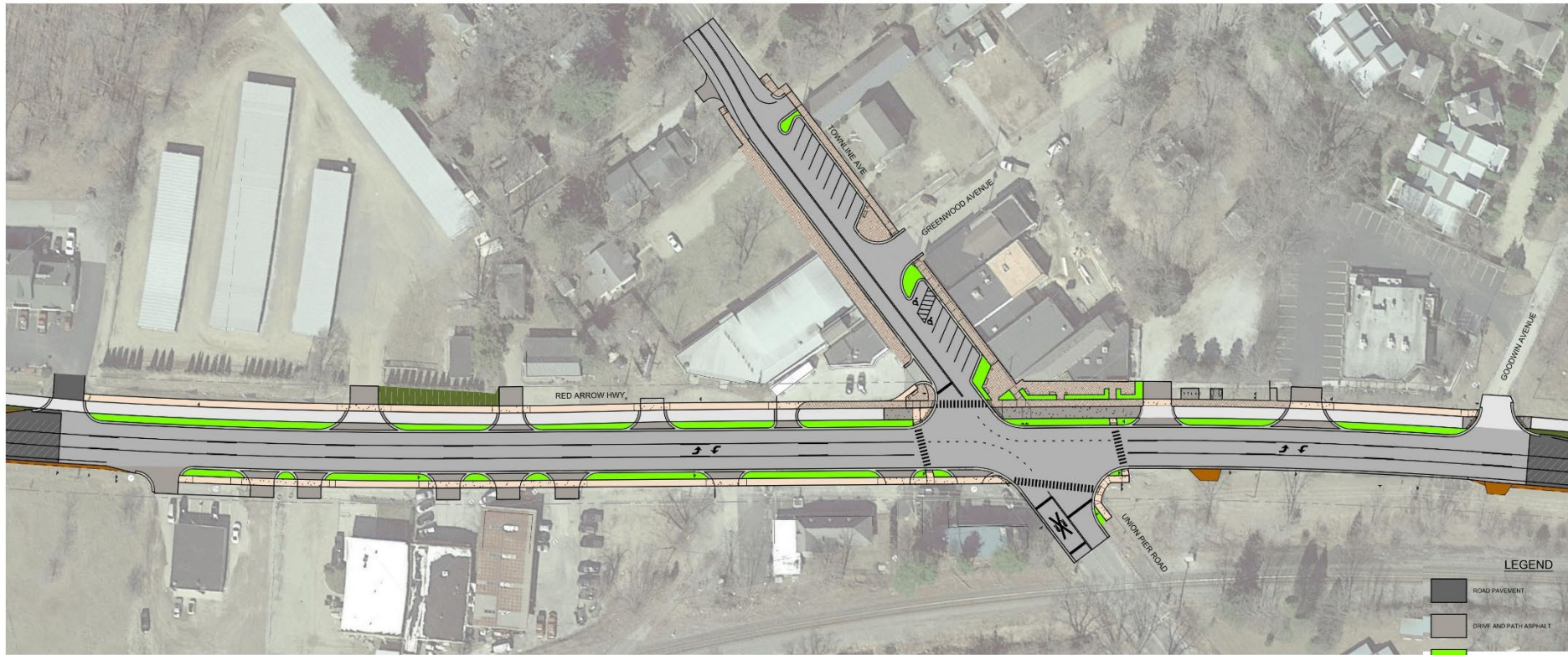
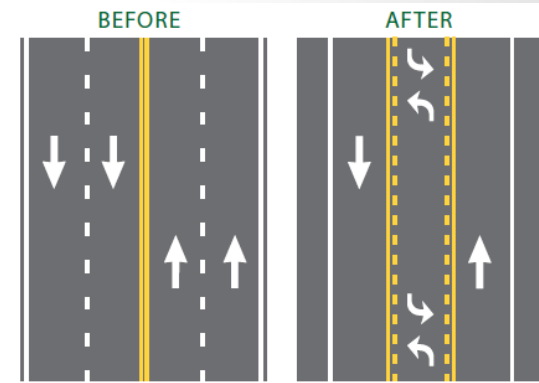
SCALE: 1" = 30'-0"

RED ARROW STREETSCAPE





# Lane Reconfiguration

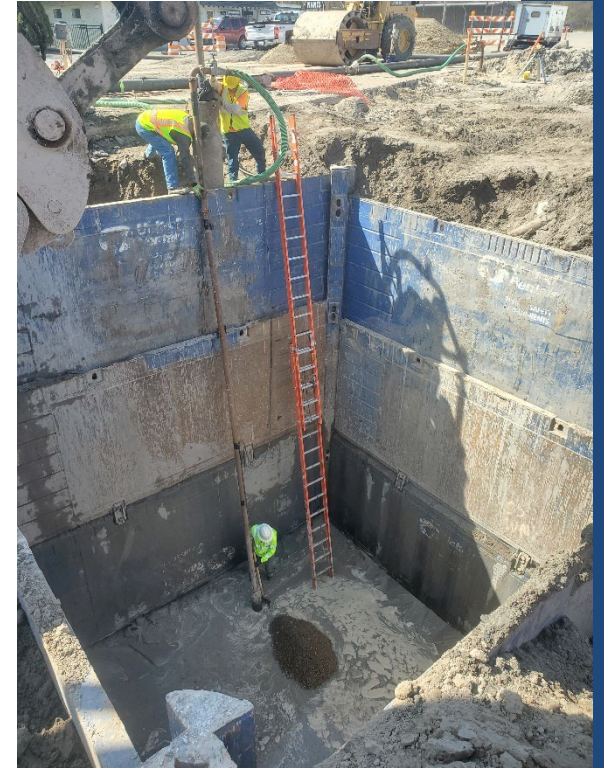


## LEGEND

- ROAD PAVEMENT
- DRIVE AND PATH ASPHALT
- LANDSCAPE PLANTINGS
- GRAVEL SHOULDER
- GRASS
- CONCRETE CURB
- SIDEWALK



# New Sewer Installation



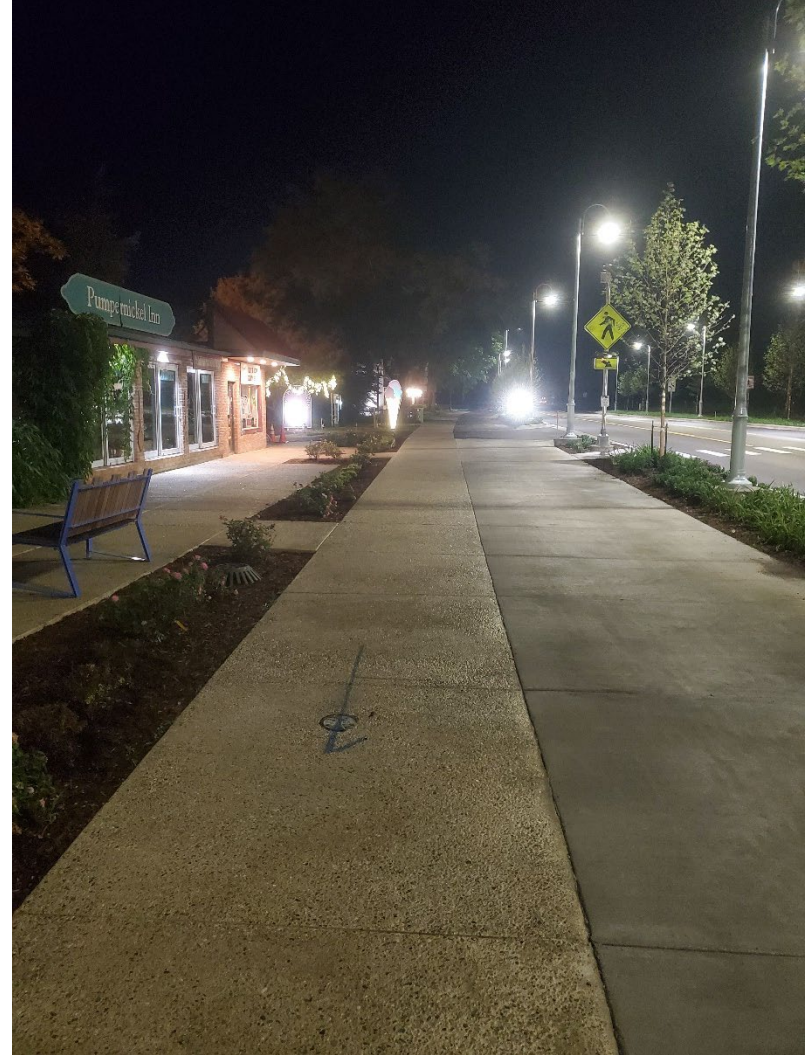


# Road Reconstruction





# Lighting



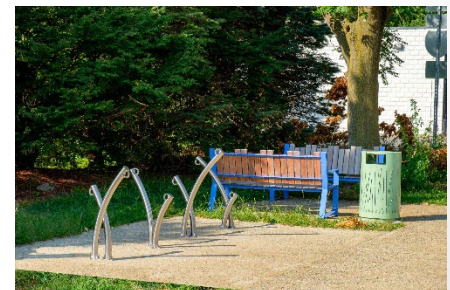
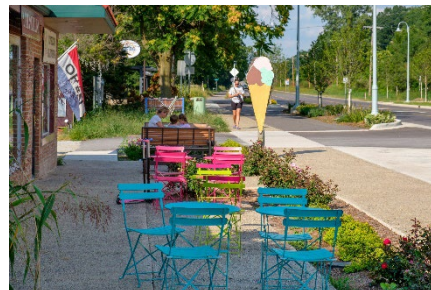




# Pedestrian Crossing System



# Distinctive Features





# Public Restroom Facility



# Coordination

Funding Sources (Including Trailhead)	Amount
Berrien County Road Department	\$1,500,000
MDOT	\$900,000
Chikaming Township	\$600,000
New Buffalo Township	\$725,000
The Pokagon Fund (via the Township Share)*	\$850,000
USDA Rural Business Development Grant*	\$75,000
<b>TOTAL (Including Trailhead)</b>	<b>\$3,725,000</b>





# 2020 CRA IMPRESS Award Collaboration



## IMPRESS Awards COLLABORATION

### Berrien County Road Department



### Red Arrow Highway Union Pier Corridor Improvement Project

Berrien County Road Department partnered with Chikaming Township, New Buffalo Township, Michigan Department of Transportation, The Pokagon Fund and USDA Rural Business Development Grant, to make the Red Arrow Highway a safer area for pedestrians and the community by reconfiguring the road and inserting pedestrian walkways. Red Arrow Highway was formerly a state highway before I-94 was opened and in recent years has seen business development and increasing pedestrian and intersection traffic growth.



Home + Trip Ideas

# The 50 Best Places to Travel in 2022

From far-flung destinations to hometown favorites, 2022 is the year to get back out there and turn your dream trips into reality.

By Travel + Leisure | December 09, 2021

44. Southwest Michigan  
“...Hop on the new  
pedestrian/bike trail in  
Union Pier...”

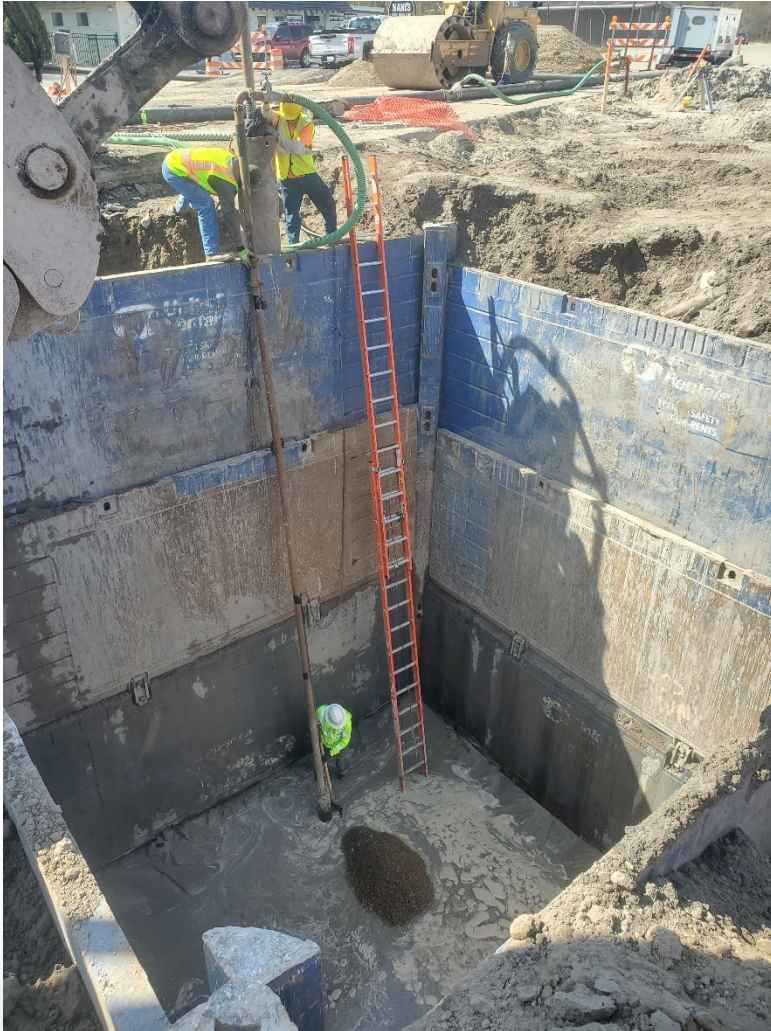
## 44. Southwest Michigan



Beaches with ocean-like views were once the main draw to Michigan's southwest coast, but new high-style accommodations and hyper-local experiences are giving us more reasons to go. Where to stay with so many options? Consider the cool new motel-turned-boutique [Lake Shore Resort](#) in Saugatuck; The Fields glamping retreat with new spa tents in South Haven; the revamped, modern [Harbor Grand Hotel](#) in New Buffalo; or anywhere along the coast with high-touch [Bluefish Vacation Rentals](#), which has killer lakefront homes now stocked with handmade local goods. Hop on the new pedestrian/bike trail in Union Pier, and definitely shop two new woman-owned standouts: the beautifully curated [Haven](#) and Ariane Prewitt's AP Cottage, scheduled to open this spring. Women are showing off the culinary scene, too, with everything from a special saison ale – winner of the 2021 Great American Beer Festival – at woman-owned [Waypost Brewing Co.](#), to new herb-inspired cocktails at James Beard-winning chef Melissa Corey's [Penny Royal Café & Provisions](#), to James Beard nominee Abra Beherns' [Granor Farm](#), where dinners return this year in a new glass-enclosed barn. — *Nina Kokotas Hahn*



# Challenges



- Installation of new sanitary sewer
  - Project fast-tracked by one year
    - Coordination with GRSDS
- Public Input
  - Community members
    - Residents
    - Business Owners
    - Townships
  - Consultants
- Potential Business Impact
  - During construction
  - After construction
  - Parking concerns



# Construction During A Pandemic

FOR IMMEDIATE RELEASE

WEDNESDAY, APRIL 1<sup>ST</sup>, 2020

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aboone@bcroad.org – 269-925-1196 ext. 4410

## UPDATE #2 - NEW START DATE FOR RED ARROW HIGHWAY CLOSURE

**TOWNSHIP:** Chikaming Township & New Buffalo Township

**LOCATION:** Red Arrow Highway between Community Hall and Berrien Street.

**CLOSEST CITIES:** New Buffalo, Union Pier, Lakeside

**START DATE:** Monday, April 20, 2020\*

**\*Project start date updated on 4/1/2020**

**ESTIMATED END DATE:** Prior to Memorial Day 2020

























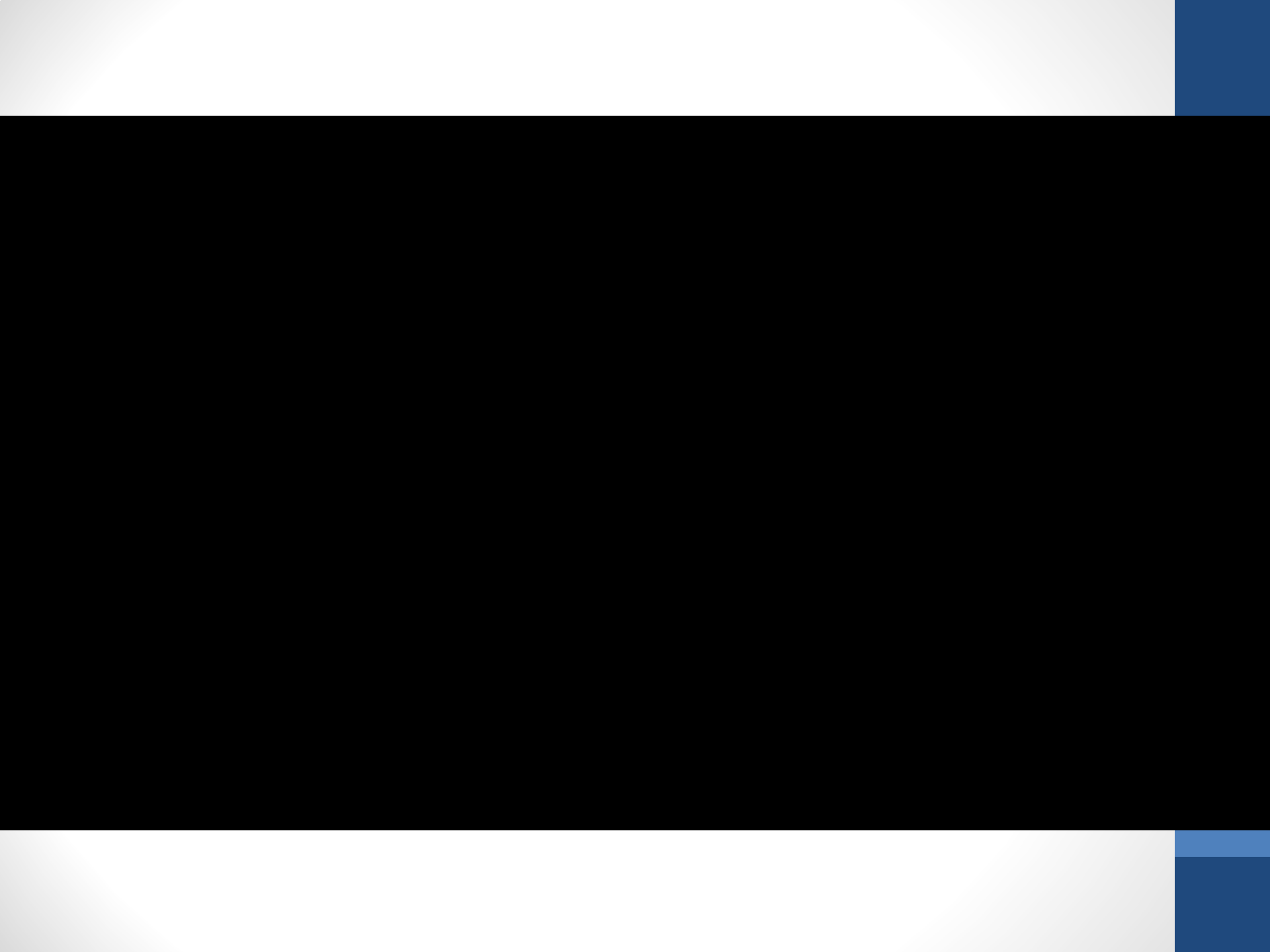














**BERRIEN COUNTY**  
ROAD DEPARTMENT



Before



After





**BERRIEN COUNTY**  
ROAD DEPARTMENT



Before



After



**BERRIEN COUNTY**  
ROAD DEPARTMENT



Before



After





**BERRIEN COUNTY**  
ROAD DEPARTMENT



Before



After



**BERRIEN COUNTY**  
ROAD DEPARTMENT



Before



After





**BERRIEN COUNTY**  
ROAD DEPARTMENT

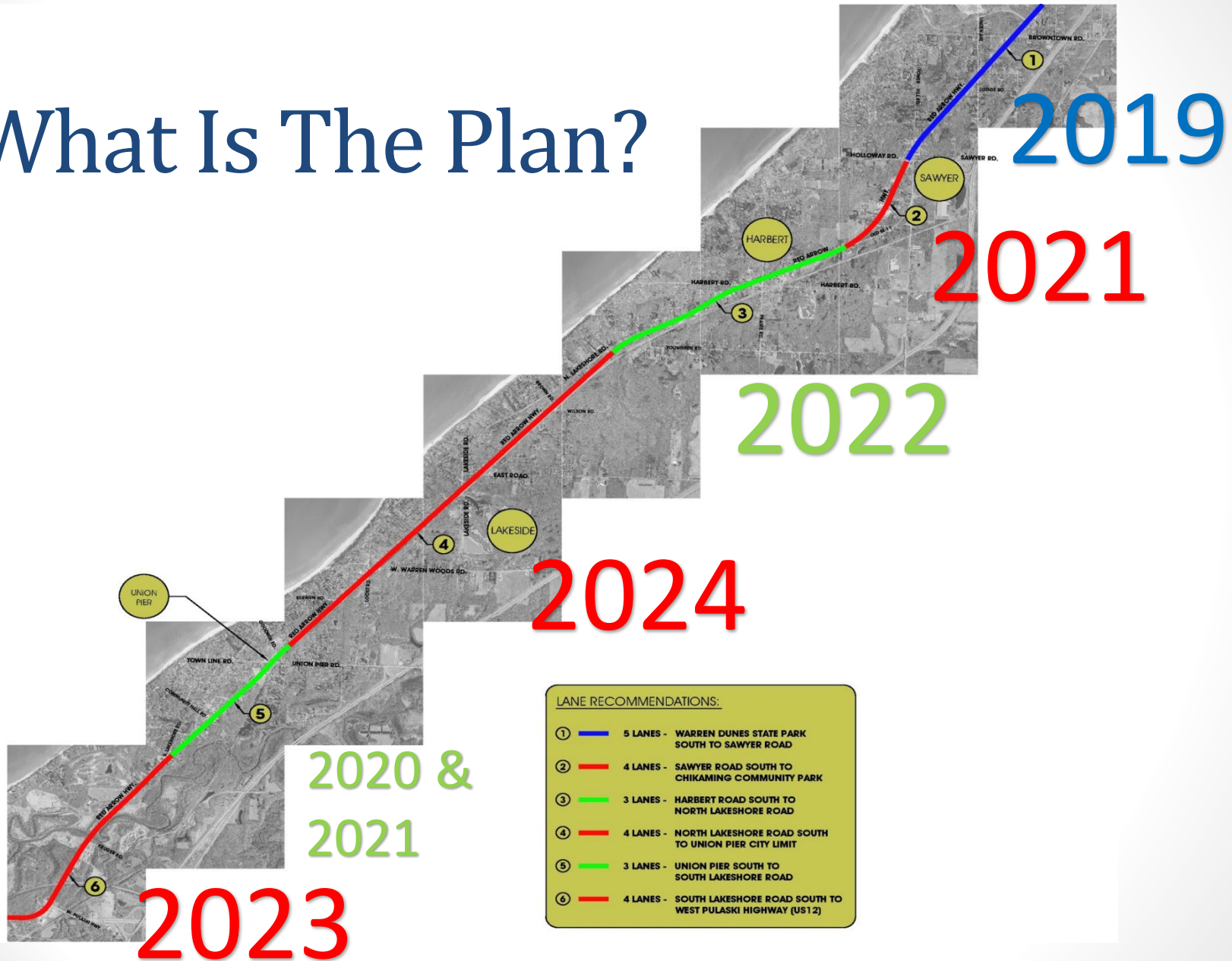


Before



After

# What Is The Plan?



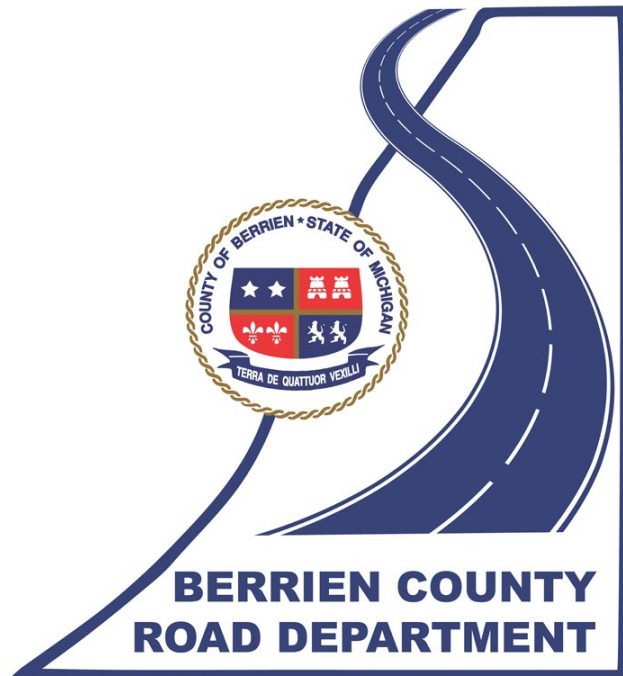
## LANE RECOMMENDATIONS:

- ① — 5 LANES - WARREN DUNES STATE PARK SOUTH TO SAWYER ROAD
- ② — 4 LANES - SAWYER ROAD SOUTH TO CHIKAMING COMMUNITY PARK
- ③ — 3 LANES - HARBERT ROAD SOUTH TO NORTH LAKESHORE ROAD
- ④ — 4 LANES - NORTH LAKESHORE ROAD SOUTH TO UNION PIER CITY LIMIT
- ⑤ — 3 LANES - UNION PIER SOUTH TO SOUTH LAKESHORE ROAD
- ⑥ — 4 LANES - SOUTH LAKESHORE ROAD SOUTH TO WEST PULASKI HIGHWAY (US12)



# Questions?





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