

**SAUGATUCK
TOWNSHIP**

**Tri-Community Non-Motorized Trail Study Committee Agenda
July 16, 2021 at 2:00 pm**

1. **CALL TO ORDER**
2. **ROLL CALL**
3. **APPROVAL OF AGENDA**
4. **APPROVAL OF MINUTES**
 - a. **June 25, 2021**
5. **PUBLIC COMMENTS/TODAY'S AGENDA TOPICS ONLY (LIMIT 3 MINUTES)** *Use the "raise hand" button in the participant's screen found in the Zoom interface or enter *9 if calling in by phone to raise hand.*
6. **REVIEW OF PRELIMINARY DESIGNS FOR DISCUSSION:**
7. **NEW BUSINESS:**
 - A. **Option 1D Kalamazoo Bridge, Clear Width Configuration, 2 Lane w/ Buffer**
 - B. **Clear Width Configuration, 3 Lane Bridge + North/Clearbrook/Elizabeth/Maple**
 - C. **BST Lake to Maple**
 - D. **BST Maple to Old Allegan**
 - E. **66th St. to North/BST w/Boardwalk**
 - F. **BST North to Clearbrook**
 - G. **BST North to Holland, Shared Use Roadway**
8. **REVIEW NEXT STEPS**
9. **PUBLIC COMMENTS (LIMIT 3 MINUTES)** *Use the "raise hand" button in the participant's screen found in the Zoom interface or enter *9 if calling in by phone to raise hand.*
10. **MEMBER CLOSING COMMENTS**
11. **ADJOURN (ROLL CALL)**

NOTICE:

This public meeting will be held using **Zoom** video/audio conference technology due to the COVID-19 restrictions currently in place.

Join online by visiting:

<https://us02web.zoom.us/j/2698572603>

Join by phone by dialing:

(312) 626-6799

-or-

(646) 518-9805


Then enter "Meeting ID":


2698572603


Please send questions or comments regarding meeting agenda items prior to meeting to:


hleo@saugatuckcity.com


LEGEND


 EXISTING BLUE STAR TRAIL:


 **A** Connecting Saugatuck City to Saugatuck Twp. and the Beeline Trail to Holland


 **B** North St. to Old Allegan Rd.

 **C** Main St. to Wiley Rd.

 PROPOSED BLUE STAR TRAIL:

 **1** Holland St. to North St. and Blue Star Highway

 **2** Old Allegan Rd. to Maple St.

 **3** Maple St. to Main St.



SAUGATUCK CITY

DOUGLAS

DOUGLAS BEACH PARK

BEACH TO BAYOU TRAIL

DOUGLAS

SAUGATUCK TOWNSHIP

SAUGATUCK CITY

SAUGATUCK HIGH SCHOOL

COGHLIN PARK

RIVER BLUFF PARK

Kalamazoo River

Kalamazoo Lake

A

1

B

2

3

C

Clearbrook Dr

Blue Star Hwy

134th Ave

SAUGATUCK TOWNSHIP

North Street

Gerald R. Ford Fwy

Allegan Rd

Mason St

Allegan St

Lake St

Maple St

Griffith St

Butler St

Warren St

Park St

Campbell Rd

Ferry St

Hamilton St

Tri-Community Bike Trail Committee Working Timeline (12/29/20)

- Dec. 30:**
 - Reconvene & review objectives
 - Review timeline
 - Determine engineering needs & costs

- Dec.- Feb 2021:**
 - Preview Saugatuck bridge route designs
 - Select/designate engineer for route study
 - Develop & recommend maintenance plan

- Feb- May 2021:**
 - Develop & recommend intergovernmental agreement & Act 51 Applicant
 - Discuss and develop route designs in Saug., Douglas & Twp

- May- Oct 2021:**
 - Develop TAP Grant Application

- June 2021:**
 - Communities approve TCC recommendations

- June 2021:**
 - Friends launch capital campaign

- Sept 22 2021:**
 - Submit TAP grant for review (*June 23, 2021 alternative date*)

- March 9, 2022:**
 - Conditional commitment TAP (*11/17/21 alternative commitment date*)

- April 1, 2022:**
 - Submit DNR Grant

- October 1, 2022:**
 - Preliminary approval DNR

- October 1, 2022:**
 - Community match certified for DNR

- Jan(-June) 2023:**
 - DNR funding approved by MI legislature

- Jan-March 2023:**
 - Final Documents due. TAP match certified (requires funding from DNR grant)

- Jan-March 2023:**
 - Request obligation. *If money already obligated, funding deferred to 2024. Most years money fully obligated by May*

- March 2023:**
 - Request construction bids

- April 2023:**
 - Low cost bid accepted

- May 2023:**
 - Construction

Tri-Community Trail Committee (TCC)
June 25, 2021 Meeting
Minutes

Present:

Call to Order

The meeting was called to order at 2:00 p.m.

Approval of Minutes

A motion was made by Ken Trester, seconded by Brenda Marcy and unanimously approved to accept the minutes from the 5.7.21 Meeting

Agenda

A motion was made by Ken Trester, seconded by Cindy Osmond and unanimously approved the agenda.

Guest speakers

None

Open comments.

None

Unfinished Business

Larry Fox Presenter - Reviewed options – 2 lanes or 3 lanes. Seems preference is for 3. Can accomplish 11' lane by reducing size of 10' bike lane w 2' buffer on each side. Mixed use non-motorized trail. Pedestrians, strollers, bike lane. Can get by with smaller bike lane. Three 11' car lanes and 8' bike lanes. Fire Chief Janik's recommendation was for 11' lanes.

Emily Meyerson - spoke to MDOT people who know that we've been doing this for years, but we need strong justification for varying on some regs. MDOT believes any design over bridge would be an improvement over current situation.

Larry then discussed separation. We can use a vertical curb, but it's not as visual as we need. We can put curbing on the bridge which will need opening for drainage. Other possibilities for road separations are bollards or delineators. Showed a pic of small trees in planters. Center islands with vegetation. Hard separation means very visual vertical. Richard asked if they are crash-worthy. It really is not required here. That would be a guardrail type of separator. Not feasible or practical here.

Discussed winter usage of trails. We pointed out that the non-motorized trails are used year round. They are also used by students to get to school. The township received calls asking for these areas to be plowed.

Options (drawings attached)

Reviewed Option 1D. One concern with regard to emergency vehicles, people going south could veer all the way to the sidewalk past the bike path watching for bikes, pedestrians, etc.

Alternate A - Another option is the extension of the sidewalk. Have to get drainage back to existing scupper holes. Have not analyzed bridge for load issues. Still provides three 11' lanes with no shoulder or buffer. It will slow traffic. Sidewalk vs non-motorized trail. B - Alternate B – very similar but with bike rail or bike fence on both sides. Both provide 11' lanes. B allows for a little bit of shoulder. Richard said these were rejected because of cost, raising the railing and questioned whether it would block the view, and would it be accepted by MDOT. With 5' bumper could use rumble strips or striping.

Holly asked what is a bicycle height railing. Larry responded 42". Talked about 2 lanes, using non-motorized for emergency vehicles.

Ken thinks a clear winner with 2 10' lanes and a 10' lane for non-motor and emergency.

New Business

With traffic light could be controlled remotely by SDFD and emergency vehicles. Funding through TAP doesn't pay for lights.

Emily felt that all these options are safe for bikers, pedestrians and would meet MDOT, AASHTO requirements for safety.

Traffic/signal study

Opportunity to do a study with the road commission. In the last F & V study we met 2 of 3 criteria and recommended no light but it was 10 years ago.

ACRC will do a study for a light at Old Allegan Rd. and BSH. Craig was verbally thinking about a joint study of Lake St. and BSH. Trying to think of best way to do that. Any light would impact both intersections. Any signal needs to meet the warrants in the traffic manual. Larry agreed that traffic study should include both intersections. John said we have to remember that with a bike trail traffic of pedestrians and non motorized will be heavier.

For Tap funding (transportation alternatives program) we need to decide by August for October due date. Next steps. TAP is due Aug 13. Trust Fund grant would apply more to off road sections. Need consensus on alternatives with costs for the bridge.

Joe talked about going through the cemetery instead of North St. Larry responded that there is one very steep hill that might be very costly to make accessible. Larry asked would be willing to do a zoom with Parks or township to discuss as long as this committee approved. Holly said they could discuss and decide the best way to proceed. Trust Fund people might prefer the wetlands. Going through cemetery would require a boardwalk to access the steep area.

Public Engagement

The committee discussed when and how do we engage the public in this discussion. Emily said having concrete and fewer options would be best time to approach public. Grant funding needs public input. At public input you can speak to how you came to these conclusions, such as cost, etc. Richard asked if we need a public meeting at a school, somewhere outside the regular meeting. TAP doesn't require a specific type of feedback. An open house would be very good. Ken added needs to be well coordinated with city council. Joe talked about putting the design within an open house allowing attendees to vote or fill out a survey for those who can't attend.

We need to present to both city councils and the township.

Public Comments

None.

Closing comments

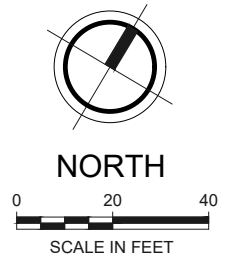
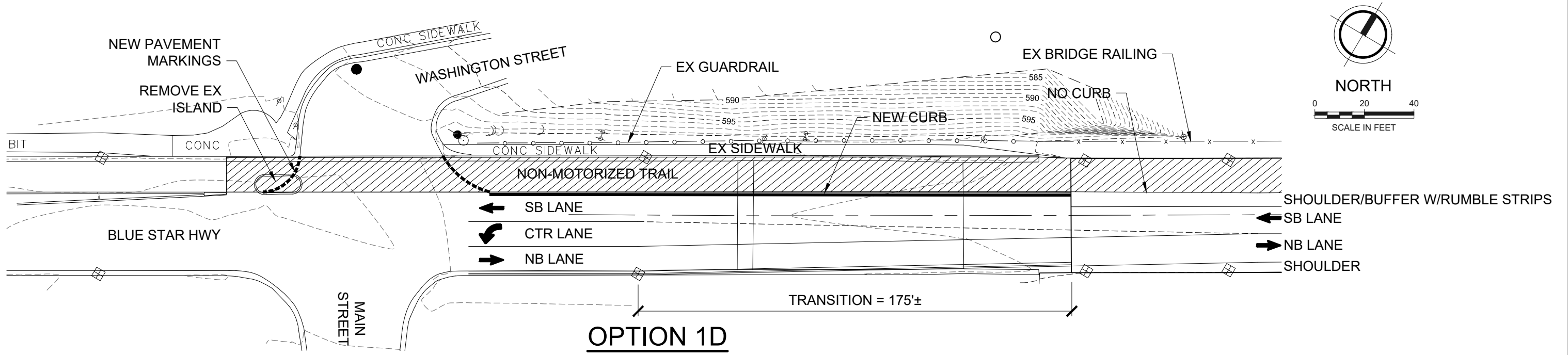
Richard – asked about resolutions and time limits, term limits.

Emily asked if we've ever done a user survey. John said no.

Adjournment

Ken moved to adjourned. Unanimously approved at 4:00 pm

Respectfully Submitted,
Brenda Marcy

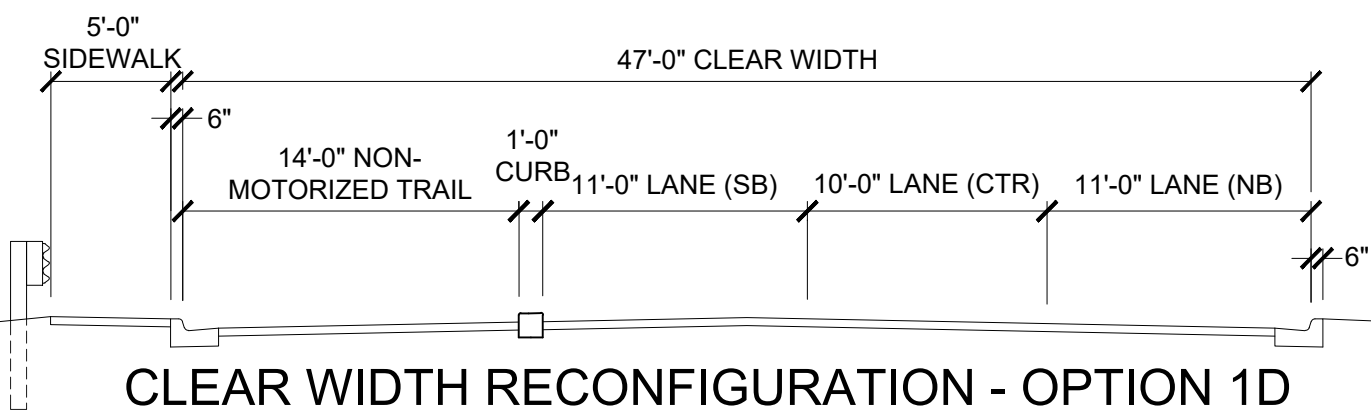


OPTION 1D

OPTION 1D - NON-MOTORIZED TRAIL IN EXISTING ROADWAY, WEST SIDE, TWO LANE PLUS BUFFER SECTION DESCRIPTION: UNDER THIS OPTION, THE NORTHWESTERN 14 FEET OF EXISTING PAVEMENT WOULD BE CONVERTED TO THE NON-MOTORIZED TRAIL. SEPARATION BETWEEN THE SOUTHBOUND LANE AND NON-MOTORIZED TRAIL WOULD BE ACHIEVED BY A 5-FOOT BUFFER WIDTH. THE EXISTING WIDE 3-LANE PLUS BIKE LANE/SHOULDER CONFIGURATION WOULD BE CONVERTED TO A 2-LANE SECTION WITH BUFFER/SHOULDER, WITH TRANSITION FOR THE LEFT TURN LANE AT MAIN STREET. A CONCRETE CURB WOULD BE USED IN THE TRANSITION WHERE THE 5-FOOT BUFFER CAN'T BE PROVIDED.

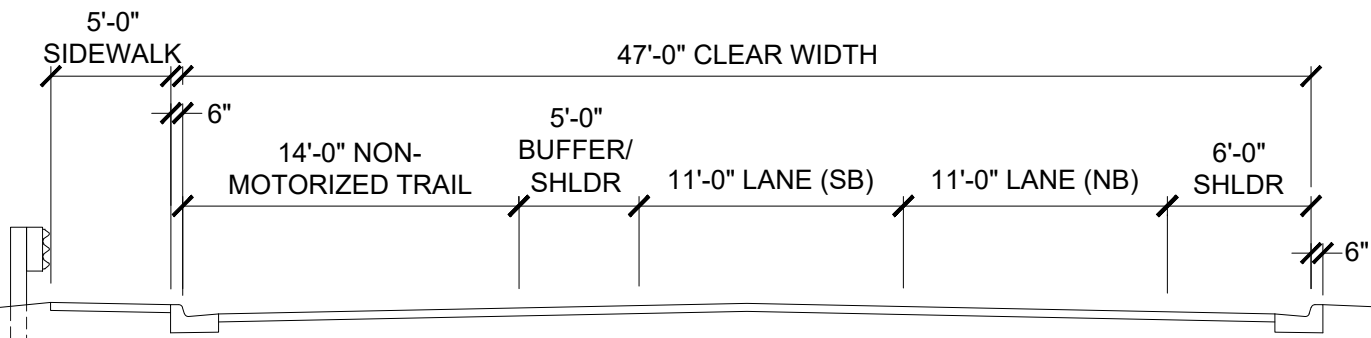
CLEAR WIDTH RECONFIGURATION - OPTION 1D

(SECTION NORTH OF MAIN STREET)



CLEAR WIDTH RECONFIGURATION - OPTION 1D

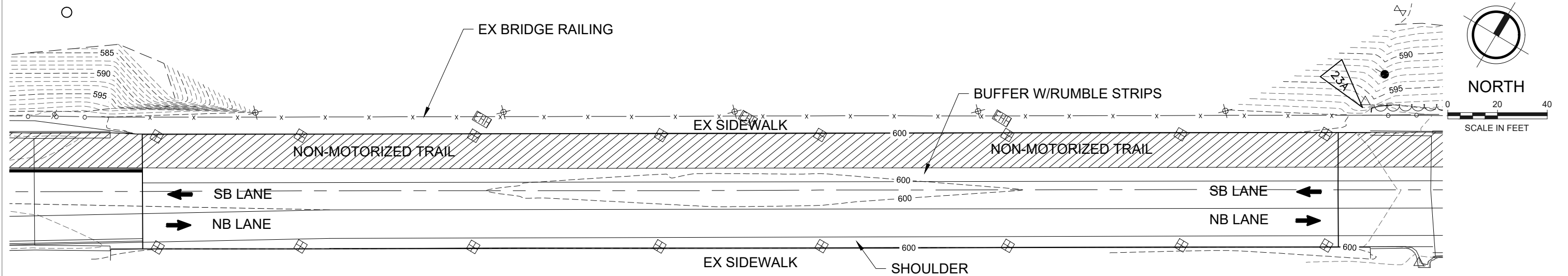
(SECTION AT BRIDGE APPROACH)



BLUE STAR TRAIL IMPROVEMENTS
 CITY OF SAUGATUCK, MI
 EXISTING TRAIL TO KALAMAZOO RIVER BRIDGE
 PART 1 - OPTION 1D

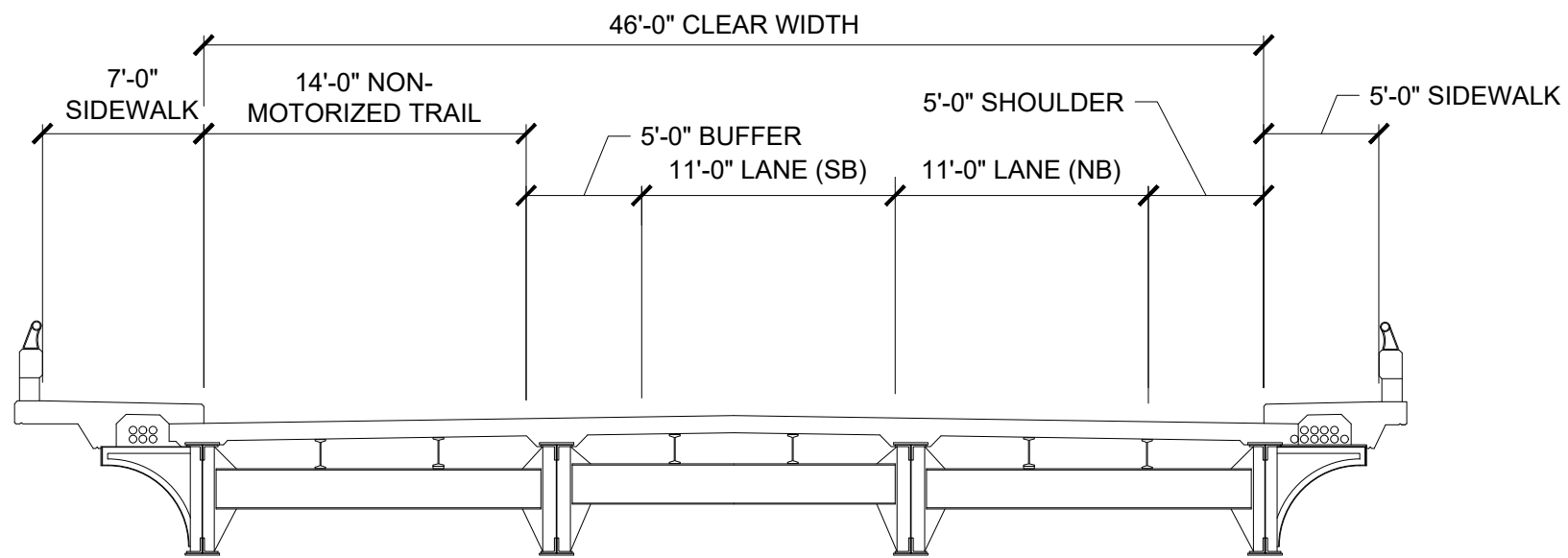


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OPTION 1D

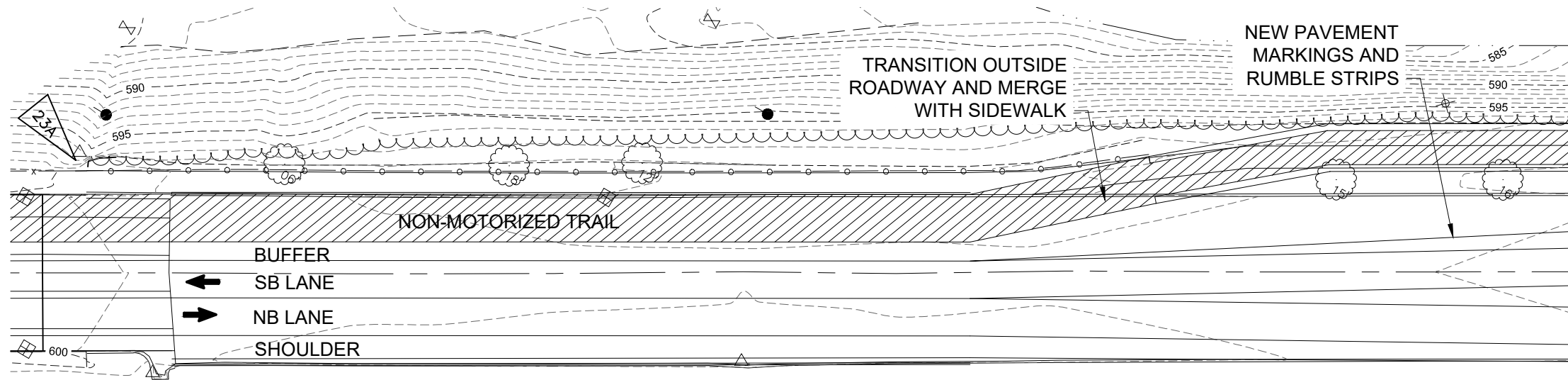
OPTION 1D - NON-MOTORIZED TRAIL IN EXISTING ROADWAY, TWO LANE PLUS BUFFER/SHOULDER SECTION
 DESCRIPTION: UNDER THIS OPTION, THE NORTHWESTERN 14 FEET OF EXISTING BRIDGE SURFACE WOULD BE CONVERTED TO THE NON-MOTORIZED TRAIL. SEPARATION BETWEEN THE SOUTHBOUND LANE AND NON-MOTORIZED TRAIL WOULD BE ACHIEVED BY A 5-FOOT BUFFER. THE EXISTING WIDE 3-LANE PLUS BIKE LANE/SHOULDER CONFIGURATION WOULD BE CONVERTED TO A 2-LANE SECTION WITH A BUFFER ON THE WEST SIDE AND SHOULDER ON THE EAST SIDE.



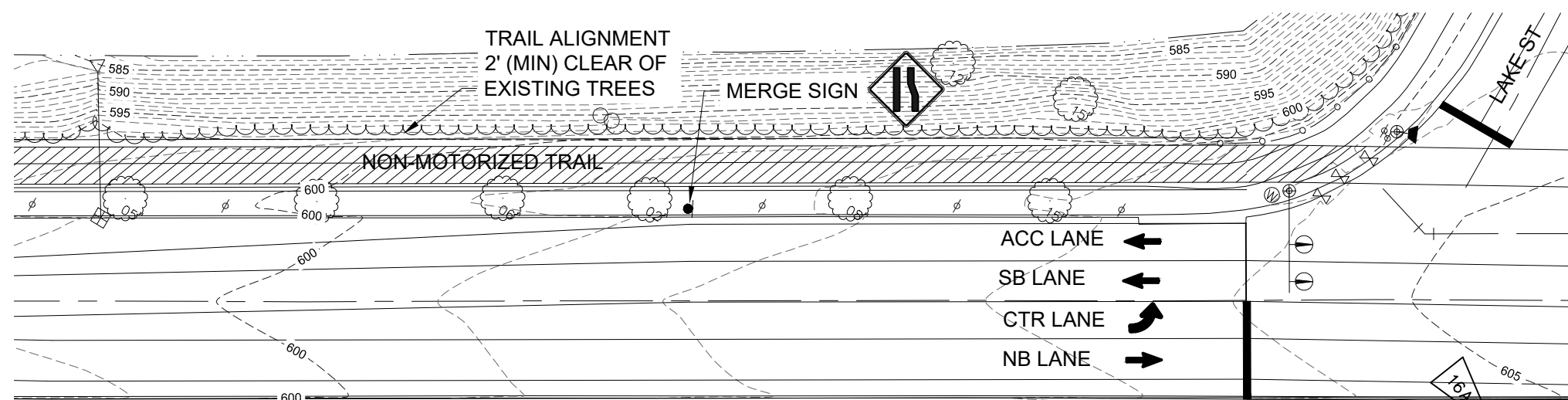
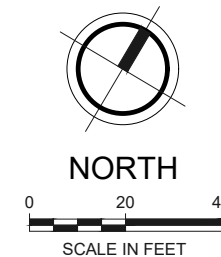
CLEAR WIDTH RECONFIGURATION - OPTION 1D

BLUE STAR TRAIL IMPROVEMENTS
 CITY OF SAUGATUCK, MI
 KALAMAZOO RIVER BRIDGE
 PART 2 - OPTION 1D

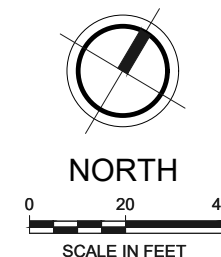




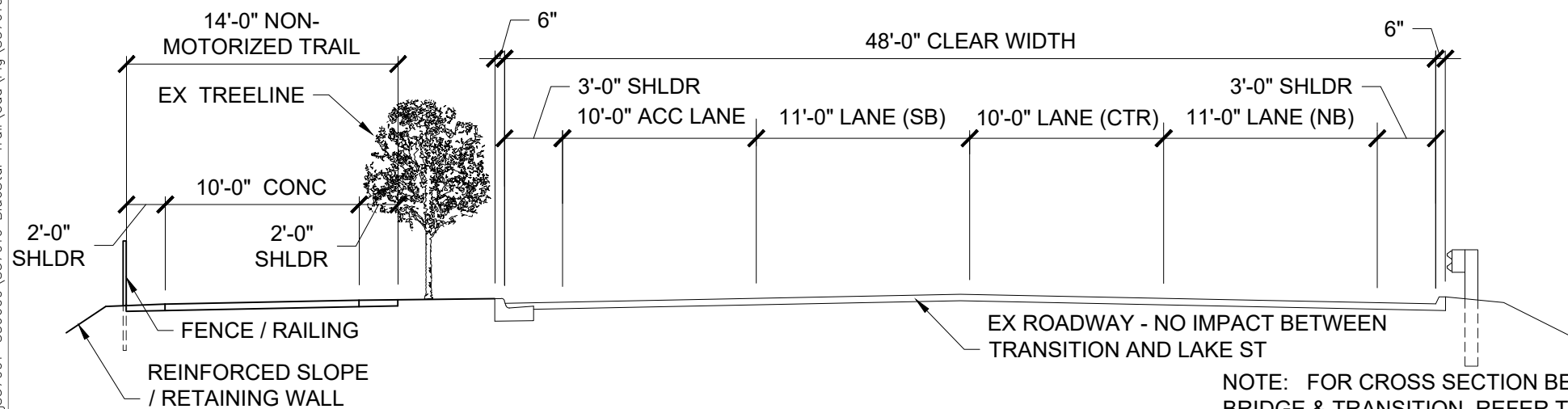
OPTION 1D



OPTION 1D



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CLEAR WIDTH RECONFIGURATION - OPTION 1D
(SECTION AT NORTH OF TRANSITION)

OPTION 1D - NON-MOTORIZED TRAIL IN EXISTING ROADWAY, TWO LANE PLUS BUFFER/SHOULDER SECTION, TRANSITION OUTSIDE ROADWAY

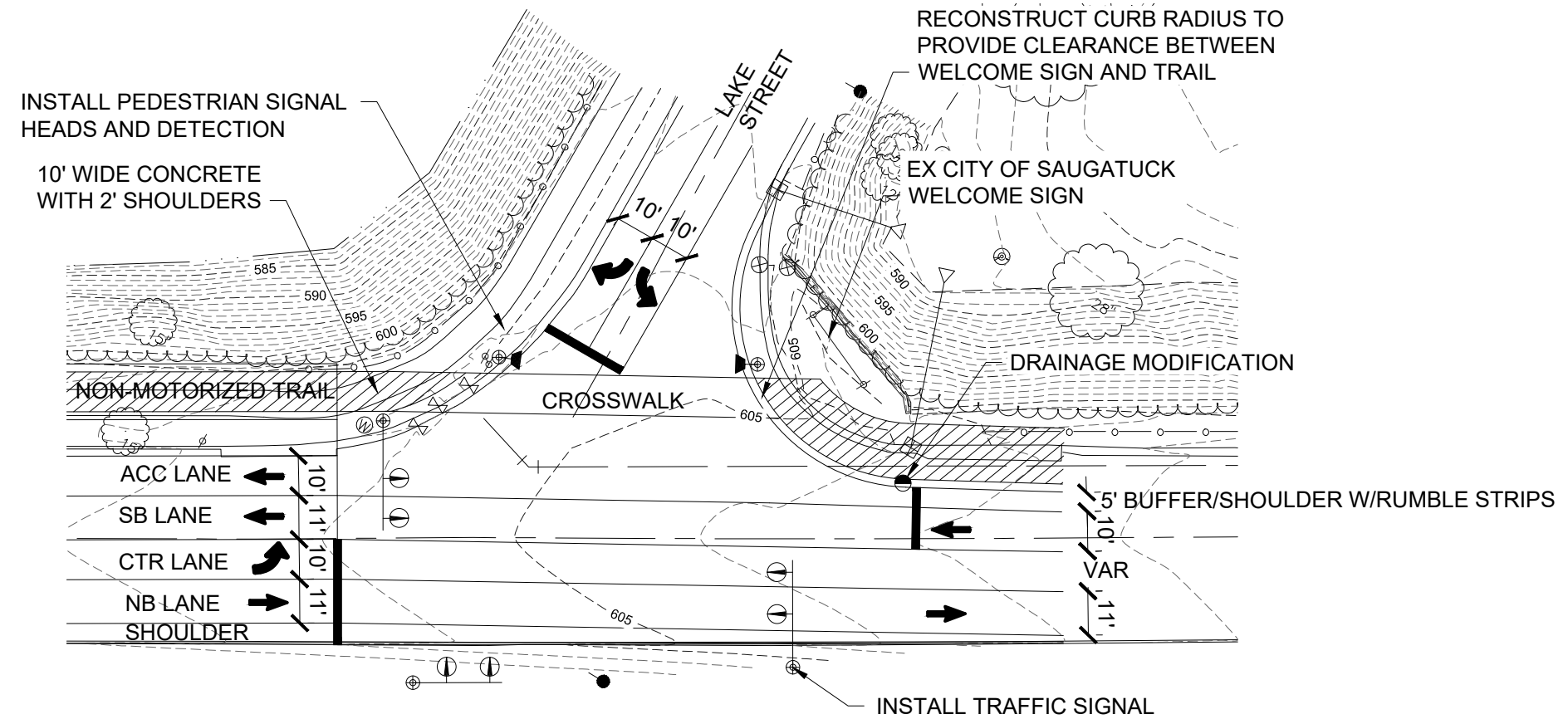
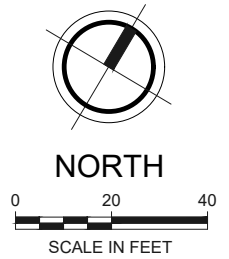
DESCRIPTION: UNDER THIS OPTION, THE NORTHWESTERN 14 FEET OF EXISTING PAVEMENT WOULD BE CONVERTED TO THE NON-MOTORIZED TRAIL. SEPARATION BETWEEN THE SOUTHBOUND LANE AND NON-MOTORIZED TRAIL WOULD BE ACHIEVED BY A 5-FOOT BUFFER WIDTH. THE EXISTING WIDE 3-LANE PLUS BIKE LANE/SHOULDER CONFIGURATION WOULD BE CONVERTED TO A 2-LANE SECTION WITH SHOULDERS. TRANSITION WOULD BE MADE BEHIND THE CURB AWAY FROM THE BRIDGE.

BLUE STAR TRAIL IMPROVEMENTS
CITY OF SAUGATUCK, MI
KALAMAZOO RIVER BRIDGE TO LAKE STREET

PART 3 - OPTION 1D

837010
F&V PROJECT NO.



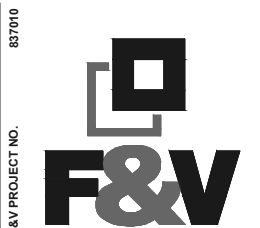


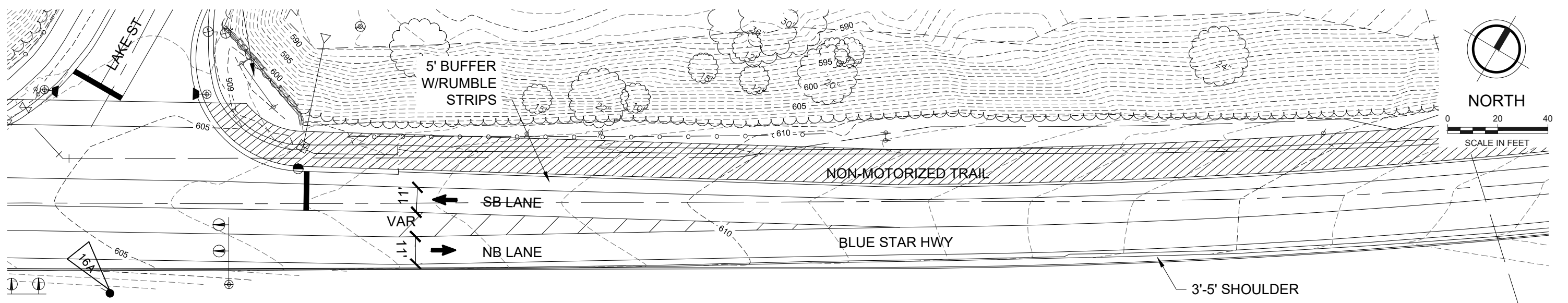
TRAIL FRONT OF WELCOME SIGN
SIGNALIZED - OPTION 1D

OPTION 1D - SIGNALIZED WITH COMBINED NON-MOTORIZED TRAIL AND SIDEWALK
 DESCRIPTION: UNDER THIS OPTION THE INTERSECTION WOULD BE CONVERTED FROM MINOR STREET STOP CONTROLLED TO TRAFFIC SIGNAL CONTROLLED. THE EXISTING SIDEWALK SOUTH OF THE INTERSECTION WOULD BE REPLACED WITH A 10-FOOT TRAIL WITH 2-FOOT SHOULDERS. A NON-MOTORIZED TRAIL CROSSING WOULD BE PROVIDED TO CROSS LAKE STREET. ON THE NORTH SIDE OF THE INTERSECTION, THE NON-MOTORIZED TRAIL WOULD BE CONSTRUCTED IN FRONT OF THE EXISTING CITY OF SAUGATUCK WELCOME SIGN.

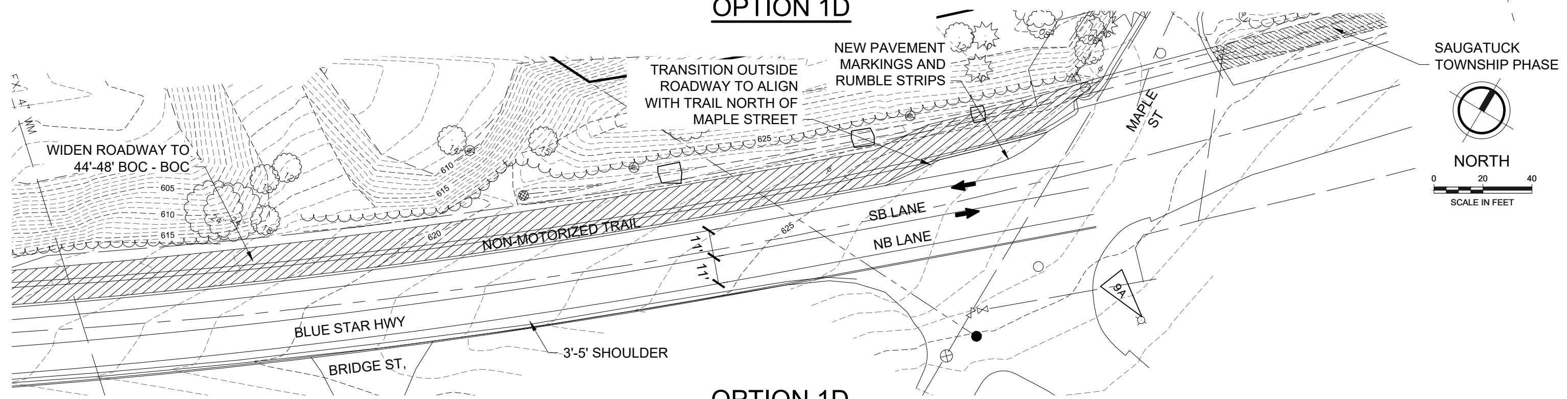
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BLUE STAR TRAIL IMPROVEMENTS
 CITY OF SAUGATUCK, MI
 LAKE STREET INTERSECTION
PART 4 - OPTION 1D

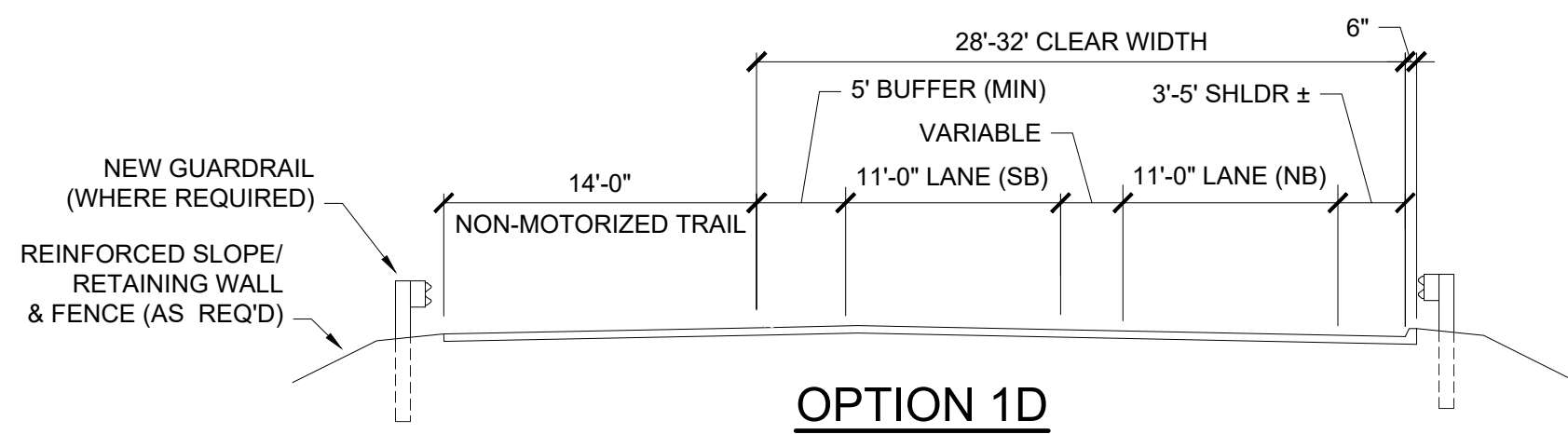




OPTION 1D



OPTION 1D



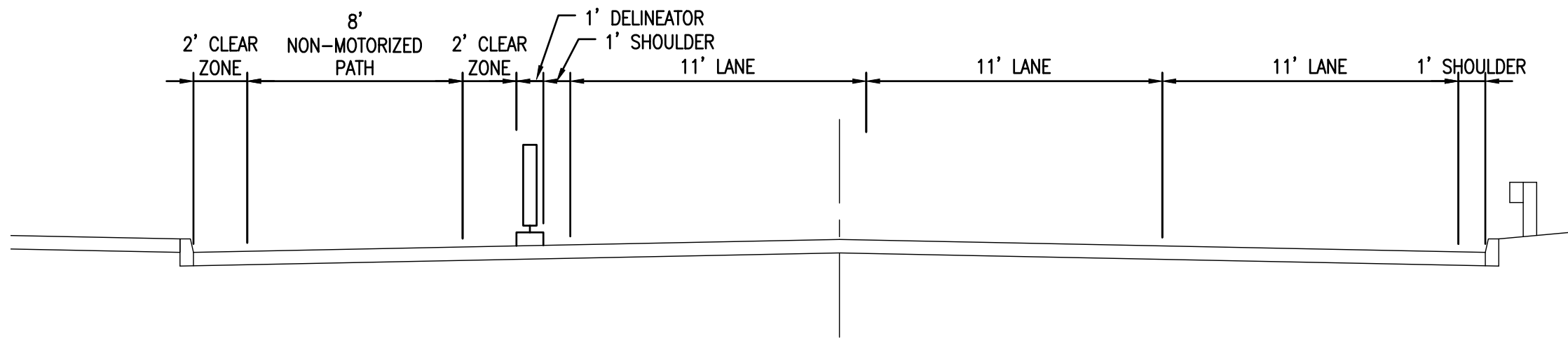
OPTION 1D

OPTION 1D - NON-MOTORIZED TRAIL IN EXISTING ROADWAY, TWO LANE PLUS BUFFER/SHOULDER SECTION DESCRIPTION: UNDER THIS OPTION, THE ROAD WOULD BE WIDENED, AND THE NORTHWESTERN 14 FEET OF EXISTING PAVEMENT WOULD BE CONVERTED TO THE NON-MOTORIZED TRAIL. SEPARATION BETWEEN THE SOUTHBOUND LANE AND NON-MOTORIZED TRAIL WOULD BE ACHIEVED BY A 5-FOOT BUFFER WIDTH. TRANSITION WOULD BE MADE TO MAINTAIN THE LEFT TURN LANE AT LAKE STREET.

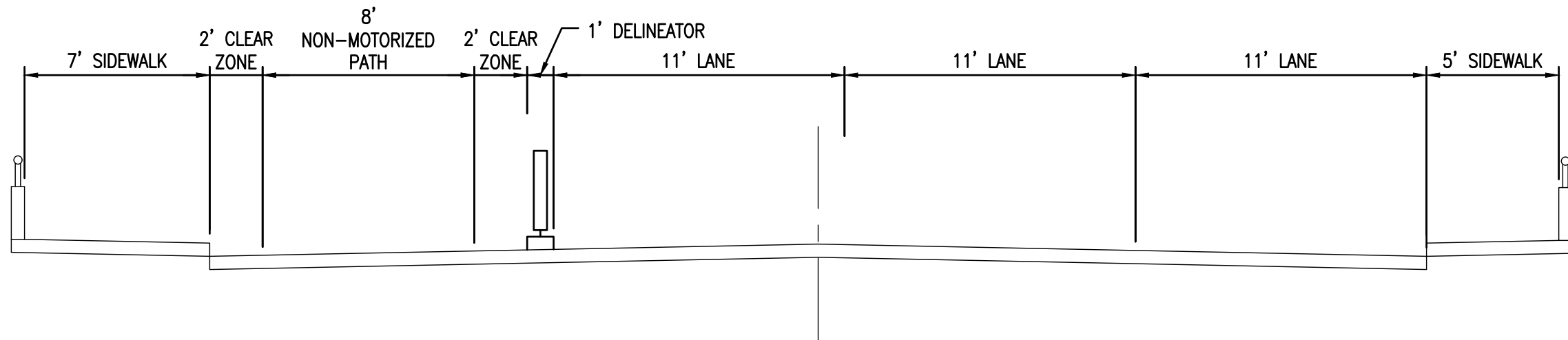
BLUE STAR TRAIL IMPROVEMENTS
 CITY OF SAUGATUCK, MI
 LAKE STREET TO MAPLE STREET
 PART 5 - OPTION 1D



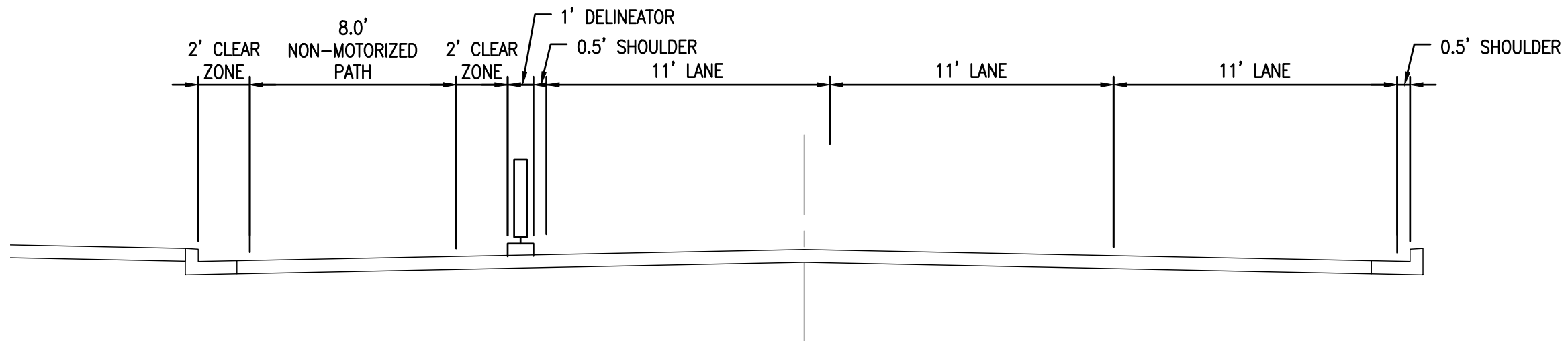
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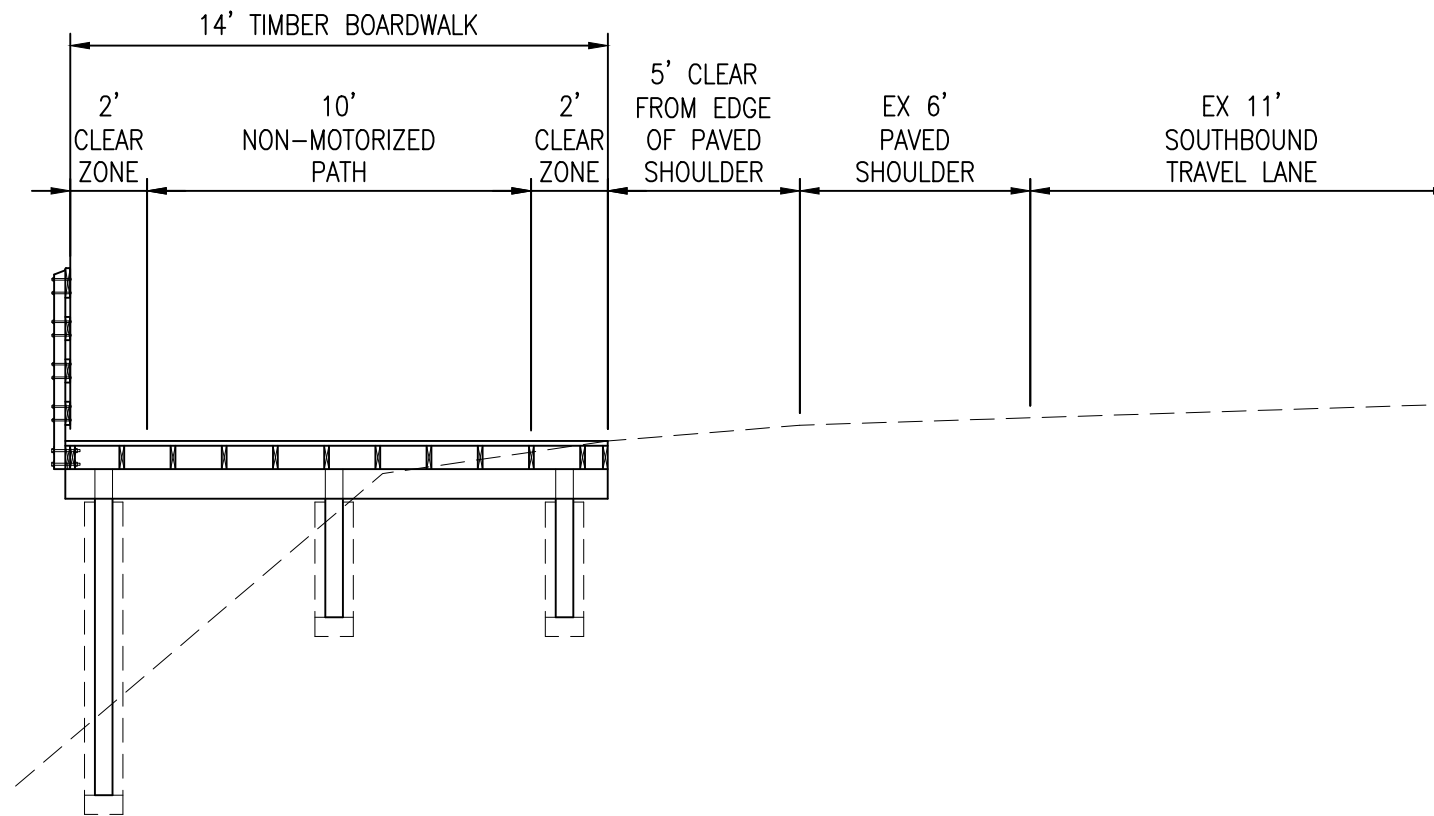
CLEAR WIDTH RECONFIGURATION – 3-LANE CONFIGURATION NORTH BRIDGE APPROACH
FACING NORTH



CLEAR WIDTH RECONFIGURATION – 3-LANE CONFIGURATION BRIDGE SECTION
FACING NORTH

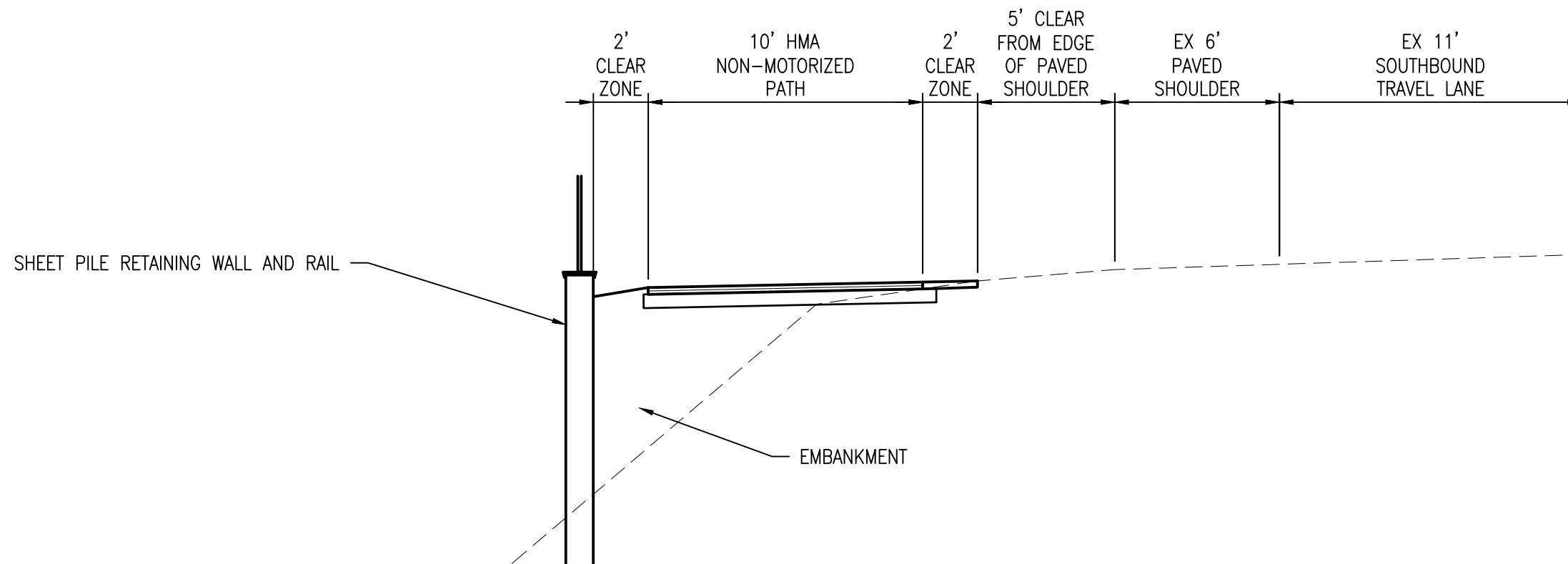


CLEAR WIDTH RECONFIGURATION – 3-LANE CONFIGURATION SOUTH BRIDGE APPROACH
FACING NORTH



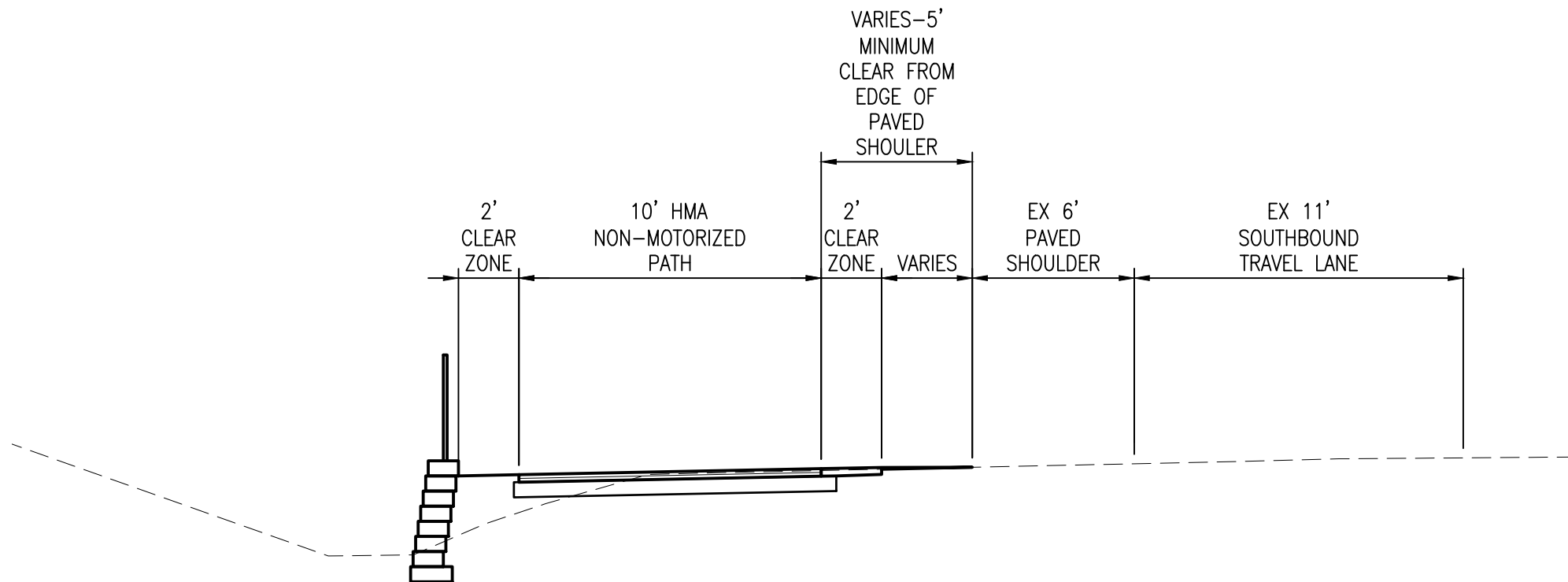
PROPOSED AT-GRADE 14' BOARDWALK TYPICAL SECTION

BLUE STAR HIGHWAY – NORTH ST TO 700' NORTH



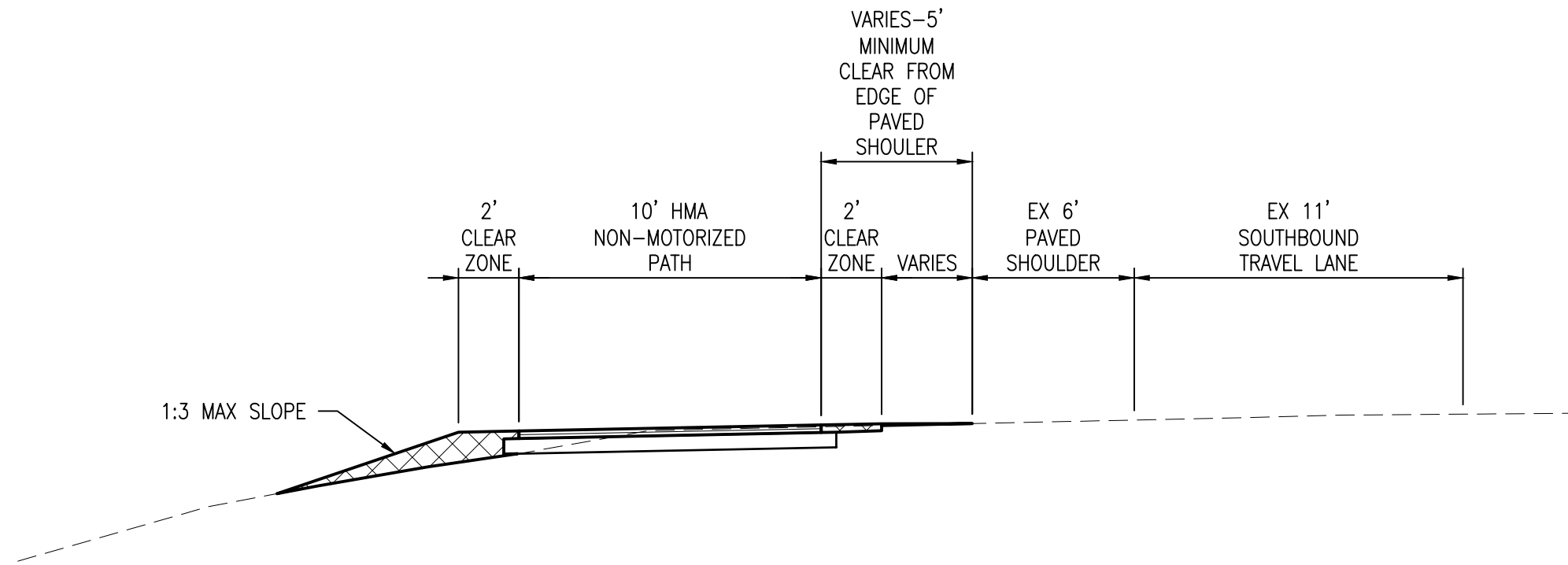
PROPOSED AT-GRADE 14' SHEET PILE WALL TYPICAL SECTION

BLUE STAR HIGHWAY – NORTH ST TO 700' NORTH



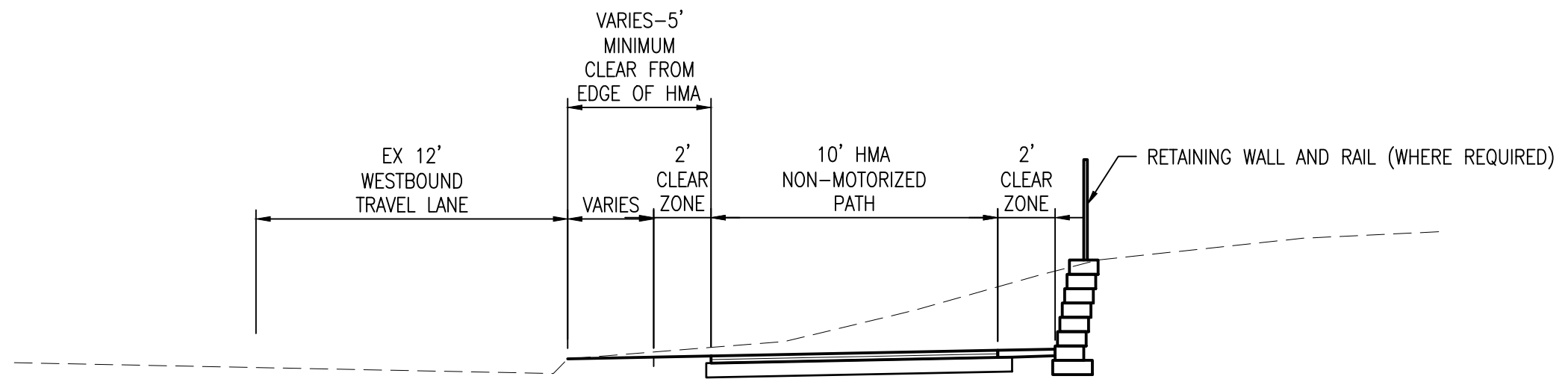
PROPOSED 10' HMA NON-MOTORIZED PATH WITH RETAINING WALL TYPICAL SECTION

BLUE STAR HIGHWAY - 700' NORTH OF NORTH ST TO 500' SOUTH OF CLEARBROOK DR



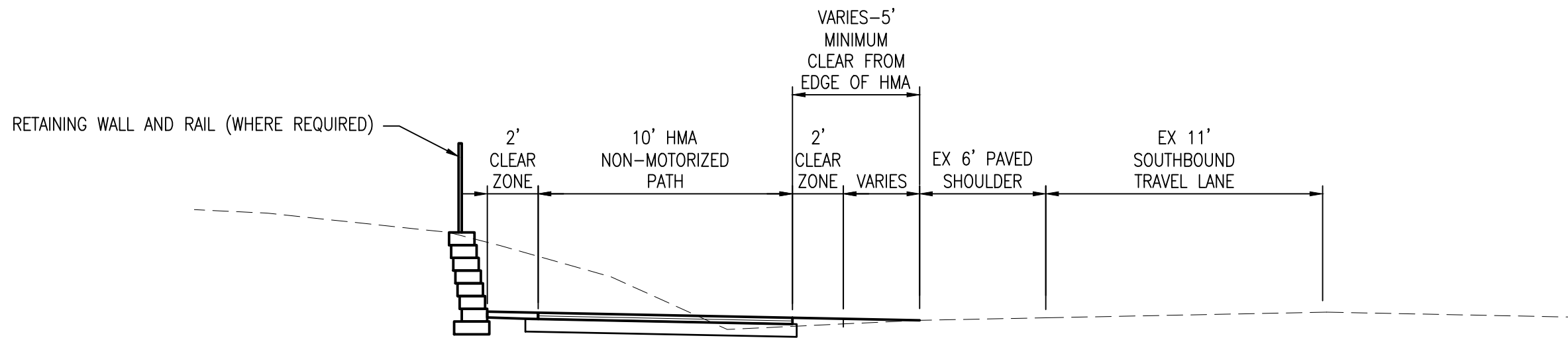
PROPOSED 10' HMA NON-MOTORIZED PATH TYPICAL SECTION

BLUE STAR HIGHWAY - 500' SOUTH OF CLEARBROOK DR TO CLEARBROOK DR



PROPOSED 10' HMA NON-MOTORIZED PATH WITH RETAINING WALL TYPICAL SECTION

NORTH STREET - FROM ELIZABETH ST TO 350' EAST



PROPOSED 10' HMA NON-MOTORIZED PATH WITH RETAINING WALL TYPICAL SECTION

BLUE STAR HIGHWAY - FROM MAPLE ST TO 350' NORTH

BST Lake to Maple

Legend

Alternate Separated Trail - At Grade Boardwalk

Widen Roadway per F&V Option 1D & 2F

A-2

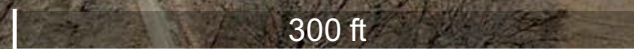
Blue Star Memorial Hwy

Bridge St

S Maple St

Bradley

Heron Bay



BST Maple to Old Allegan

Legend

Old Allegan Rd

Separated Trail - Boardwalk

Separated Trail

A-2

Separated Trail with Retaining Wall

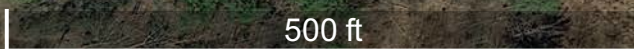
S Maple St

le Ln

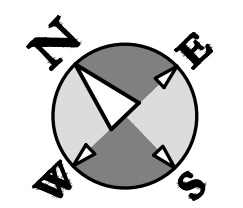
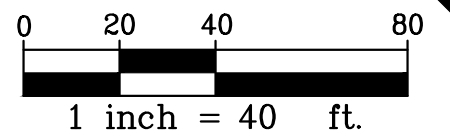
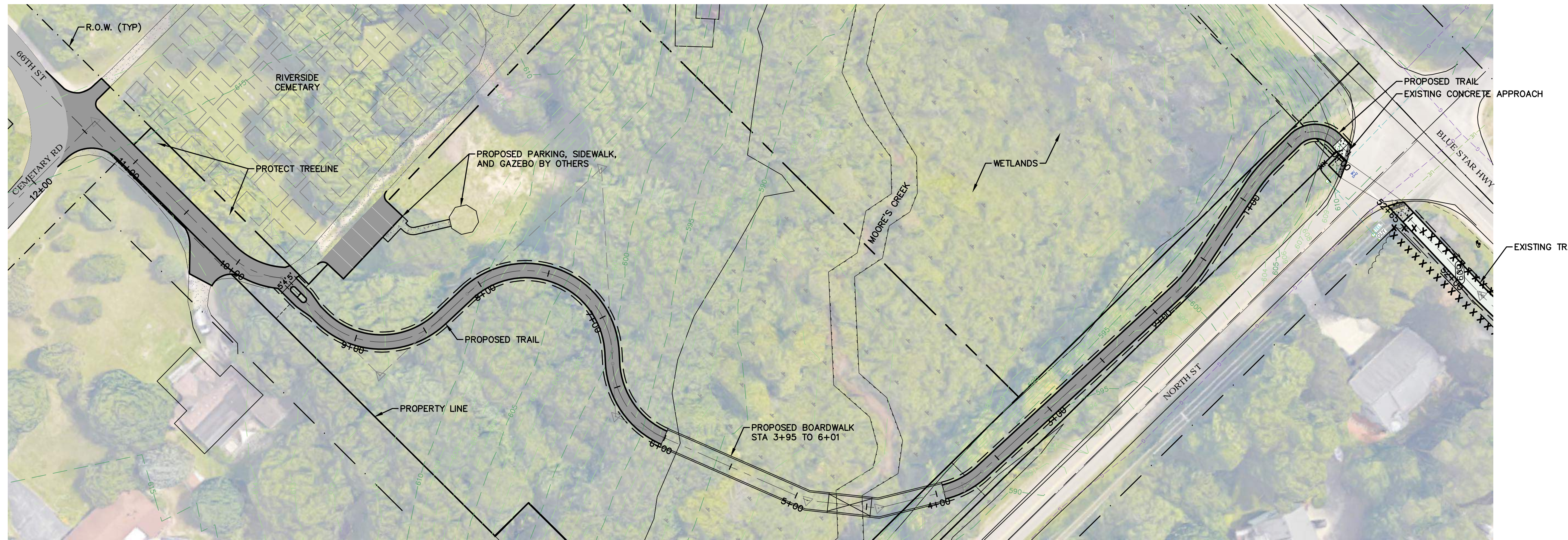
Bradley Rd

Google Earth

© 2021 Google



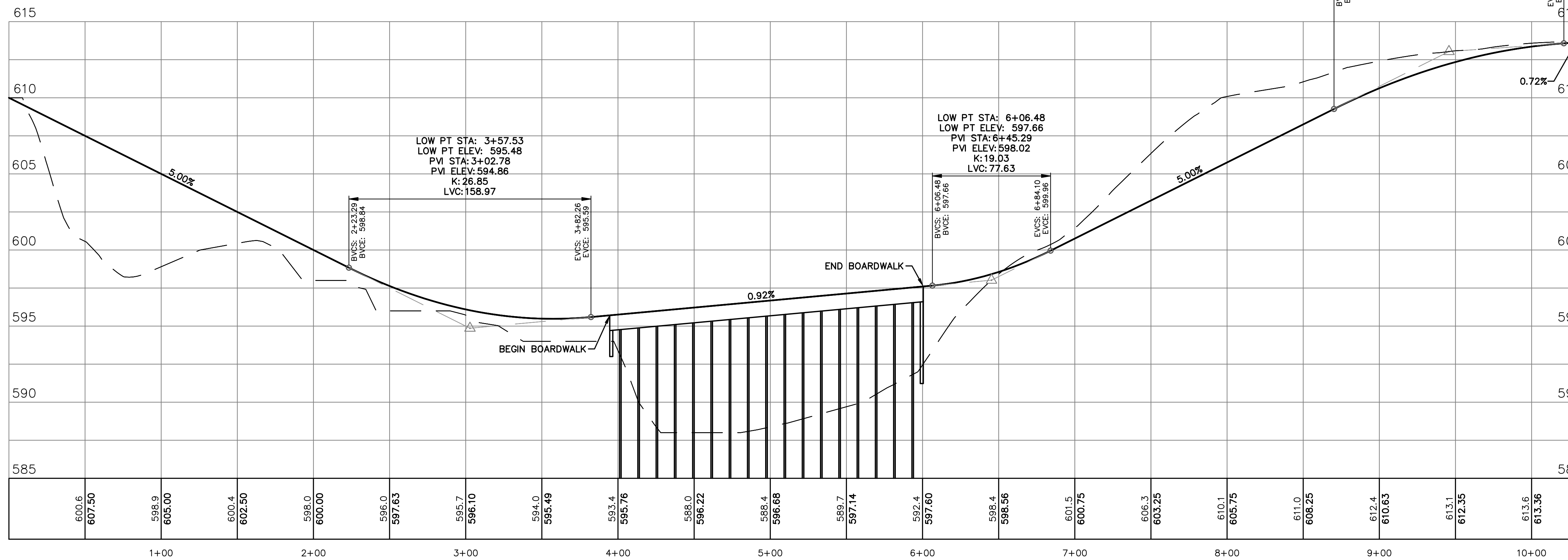
DRAWING LOCATION: I:\14-0244 (Blue Star Hwy Trail) - FINAL DRAWINGS\North Road Connection (NRC)\C-1 SE P&P (14-00 - 14-00) - LAST SAVED BY: TALLMAGE ON 2/28/2018



PLAN VIEW

SCALE: 1" = 40'

HIGH PT STA: 10+21.21
 HIGH PT ELEV: 613.58
 PVI STA: 9+45.71
 PVI ELEV: 613.04
 K: 35.24
 LVC: 150.99



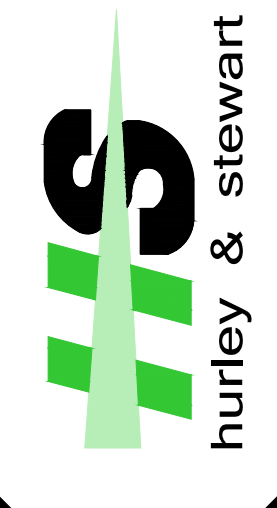
PROFILE VIEW

H SCALE: 1" = 40'
 V SCALE: 1" = 4'



ALL UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THE AREA.
 FIELD WORK PERFORMED BY:
 LANDTECH PROFESSIONAL SURVEYING

hurley & stewart, llc
 2800 south 11th street
 Kalamazoo, michigan 49009
 269.552.4960 fax 269.552.4961
 www.hurleystewart.com



Job No.: 14-0244 P.M.-TAS Drt: TAP 0A/0C 2/28/18

ISSUED FOR/REVISIONS:	DATE
1 PRELIMINARY APPROVAL	2/28/18
2	
3	
4	

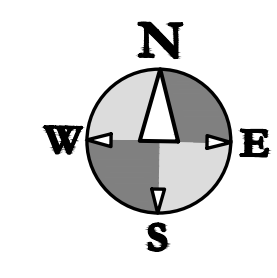
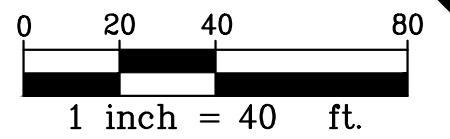
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Sheet Title: SOUTHEAST SEGMENT STA 0+00 TO 10+35
 BLUE STAR HWY TRAIL - NORTH RD CONN.
 ALLEGAN COUNTY ROAD COMMISSION

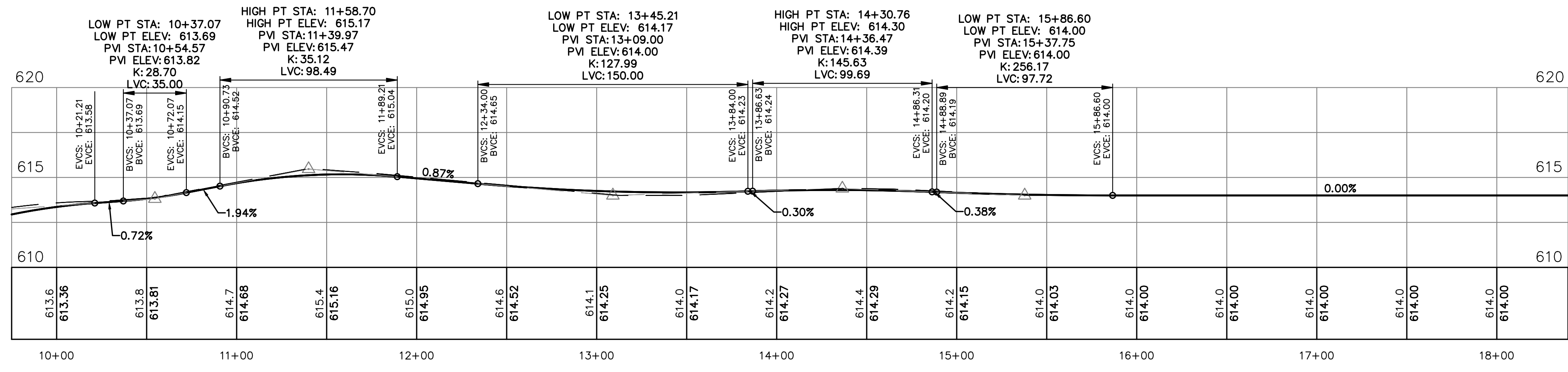
Project: _____
 Client: _____

2/28/18
 Sheet
C-1

DRAWING LOCATION: 14-0246 (Blue Star Trail) FINAL DRAWING: North Road Connection (C-2) NW P&P (14-00 - 18+40).DWG LAST SAVER BY: TPALMRO ON 2/28/2018

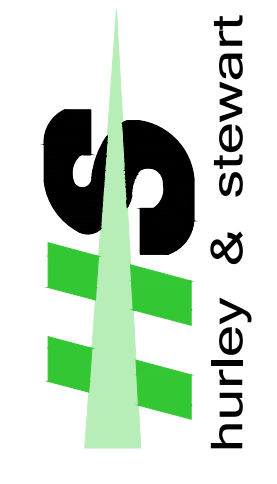


PLAN VIEW
SCALE: 1" = 40'



PROFILE VIEW
H SCALE: 1" = 40'
V SCALE: 1" = 4'

hurley & stewart, llc
2800 south 11th street
Kalamazoo, michigan 49009
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www.hurleystewart.com



Job No.: 14-0246 P.M.-TAS Drt. TAP 0A/0C 2/28/18

ISSUED FOR/REVISIONS:

NO.	DESCRIPTION	DATE
1	PRELIMINARY APPROVAL	2/28/18
2		
3		
4		

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Sheet Title: NORTHWEST SEGMENT STA 10+00 TO 18+40
Project: BLUE STAR HWY TRAIL - NORTH RD CONN.
Client: ALLEGAN COUNTY ROAD COMMISSION

2/28/18
Sheet

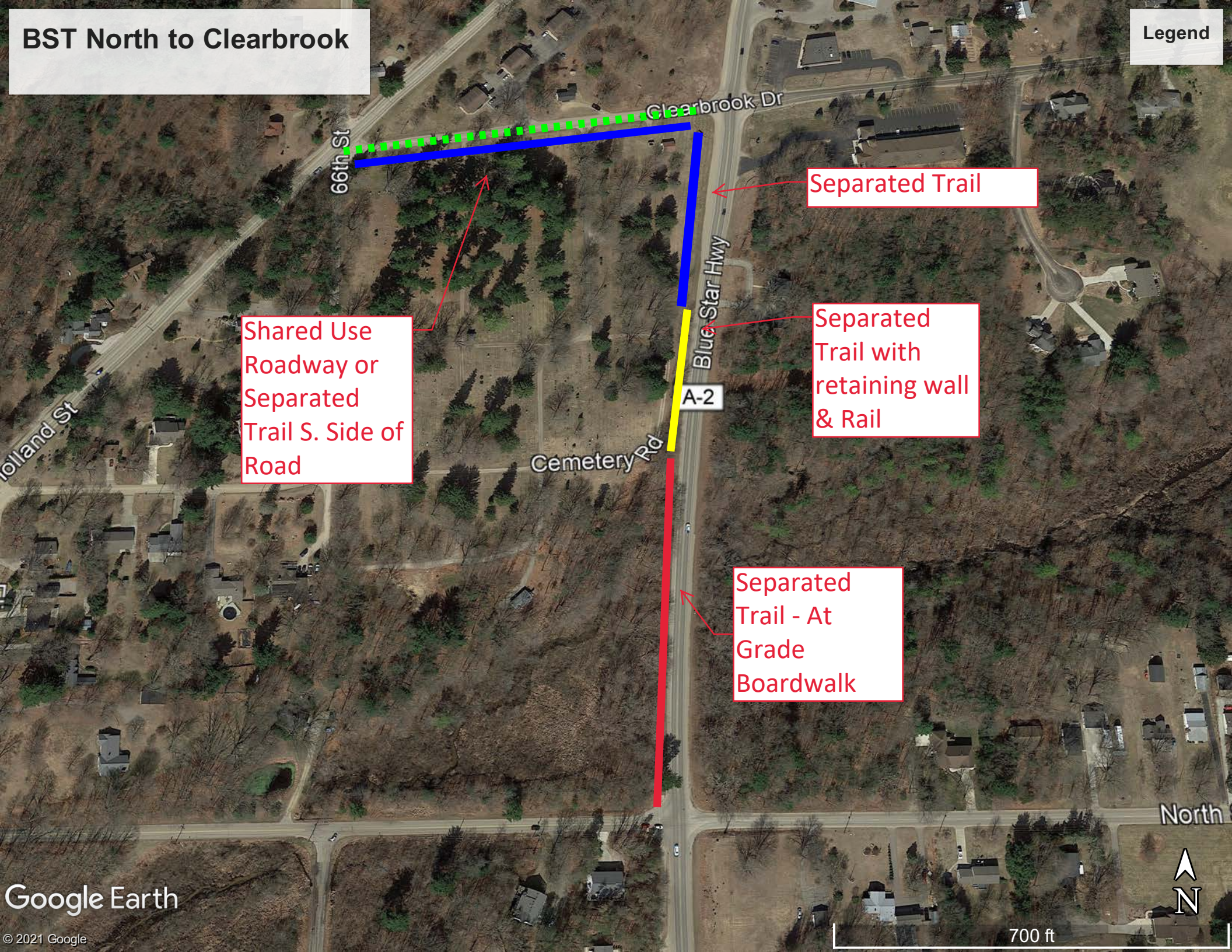
C-2



ALL UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THE AREA.
FIELD WORK PERFORMED BY:
LANDTECH PROFESSIONAL SURVEYING

BST North to Clearbrook

Legend



66th St

Clearbrook Dr

Separated Trail

Shared Use
Roadway or
Separated
Trail S. Side of
Road

Separated
Trail with
retaining wall
& Rail

A-2

Cemetery Rd

Separated
Trail - At
Grade
Boardwalk

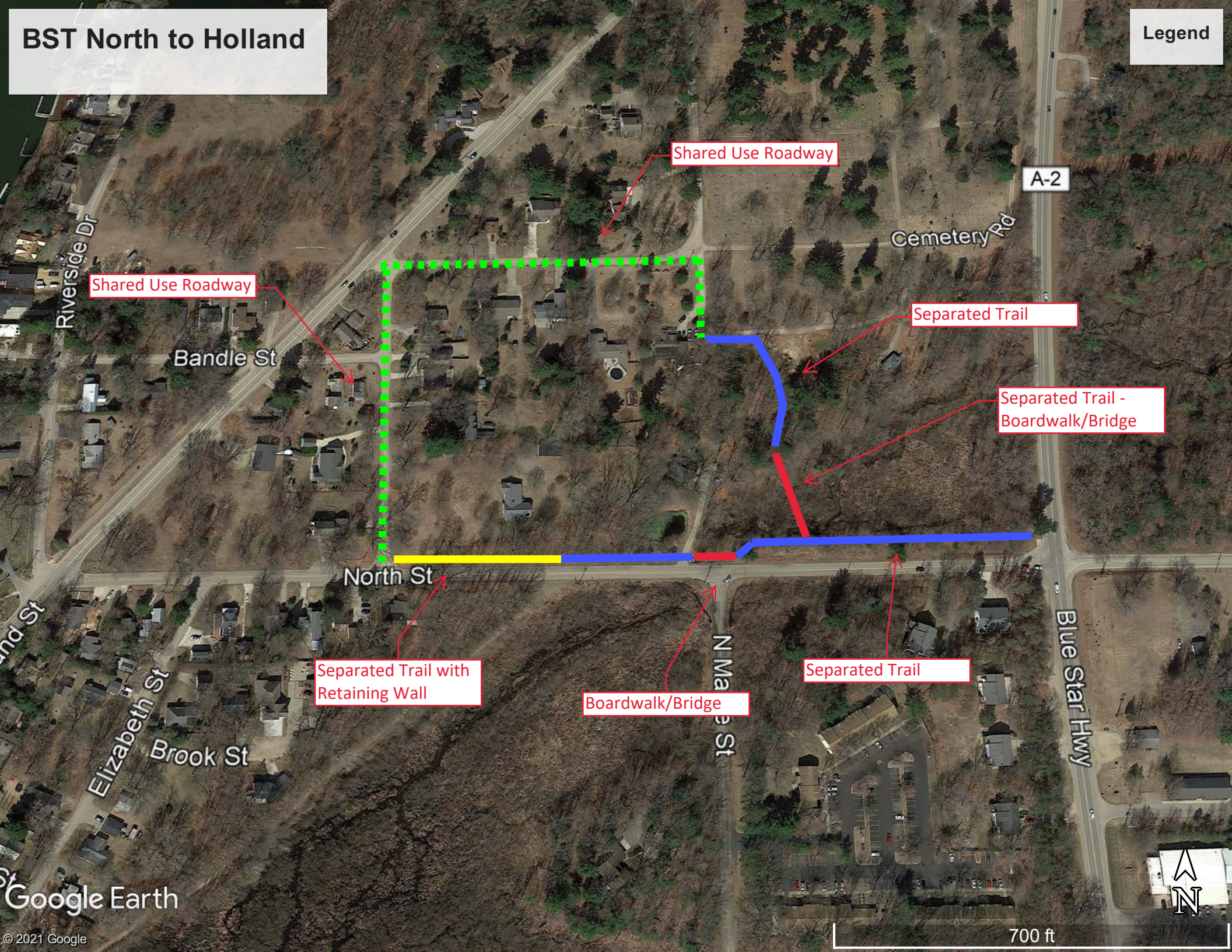
Lolland St

North



BST North to Holland

Legend



Shared Use Roadway

Shared Use Roadway

Separated Trail

Separated Trail - Boardwalk/Bridge

Separated Trail with Retaining Wall

Boardwalk/Bridge

Separated Trail

A-2

Cemetery Rd

Riverside Dr

Bandle St

North St

N Maple St

Blue Star Hwy

Elizabeth St

Brook St

Google Earth

© 2021 Google

700 ft

