



Project Information Package

CTH F, Lowes Creek Bridge

Eau Claire County
Project ID: 7826-07-00

Project Overview

Eau Claire County, in cooperation with the Wisconsin Department of Transportation, is proposing to improve the existing bridge on County Trunk Highway (CTH) F over Lowes Creek in the Town of Washington. This bridge replacement project is located approximately 0.3 mile south of CTH S (see attached project location map).

This information package is intended to provide you with information about the project, so you can provide feedback to the project team in the form of questions, concerns, or comments. Please email your comments to chrism@jt-engineering.com or fill out the attached comment sheet and send it to JT Engineering, Attn: Chris Marcum, JT Engineering, Inc., 16855 County Highway X, Suite 2, Chippewa Falls, WI 54726.

The project team will review and address all responses and utilize this information in the final design of the bridge improvements.

Project Information

The existing steel deck girder bridge carrying CTH F over Lowes Creek (Structure number B-18-0008) is deteriorating with corrosion of the existing girders and spalling and cracking of the concrete bridge deck. Additionally, the existing bridge railing does not meet current standards and the clear structure width (24-feet) is not adequate to provide bicycle accommodations.

Eau Claire County is proposing to construct a three-span concrete haunched slab structure with an overall length of approximately 115-feet and a 36-foot clear roadway width. The added width will accommodate bicyclists, with new bridge railing to improve safety and meet current standards. Improvements to the roadway approaches will be needed to tie the existing roadway into the proposed bridge. Roadway approach work would begin approximately 250-feet southwest of the center of the existing stream and extend approximately 450-feet. This section of roadway will generally match the alignment and grade of the current roadway section with new guardrail added to each corner of the proposed bridge. An overview plan of the bridge and roadway improvements is attached for your reference.

The proposed improvements may impact some wetlands adjacent to the project. A wetland determination and detailed mitigation plan to compensate for any wetland impacts will be completed as needed this summer. No archaeological or historical resources are anticipated to be impacted by the project. The environmental process for the proposed project is anticipated to be completed in the summer of this year.





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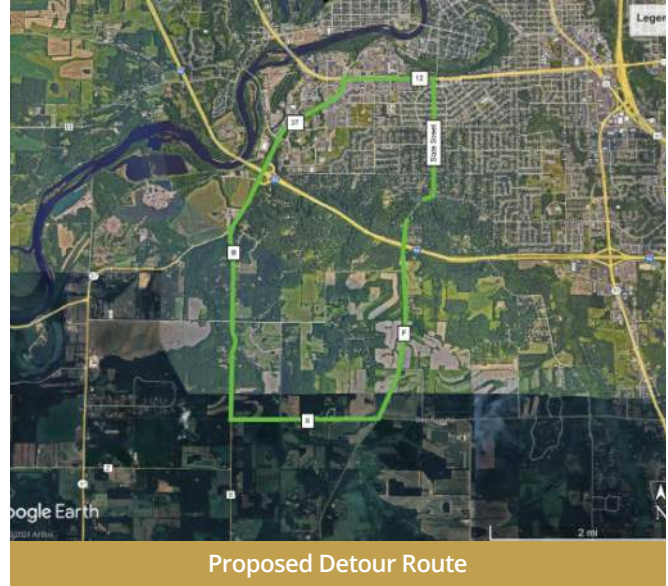
Project ID: 7826-07-00

Proposed Traffic Impacts

Construction is scheduled to occur during the 2027 construction season. The road will be closed for the construction of this project, with a signed detour route utilizing County Highway II, County Highway B, WIS 37, US 12 and State Street.

Real Estate

Additional right of way will not need to be acquired by Eau Claire County to facilitate the construction of the proposed bridge.



Project Schedule

No additional public involvement is currently scheduled for this project.

DELIVERABLES	DATE
Environmental Document	August 1, 2024
Design Study Report	February 1, 2025
Final Plans	August 1, 2026
Project Construction	Summer 2027

Note: Schedule has the potential to change





County Trunk Highway (CTH) F Bridge Replacement Project

Chris Marcum, PE
Consultant Project Manager

Eau Claire County Highway Facility
Eau Claire, WI

May 7, 2024

Project Team

- Eau Claire County Highway Department
 - Travis Pickering, PE – County Engineer
- JT Engineering Inc.
 - Chris Marcum, PE – Consultant Project Manager

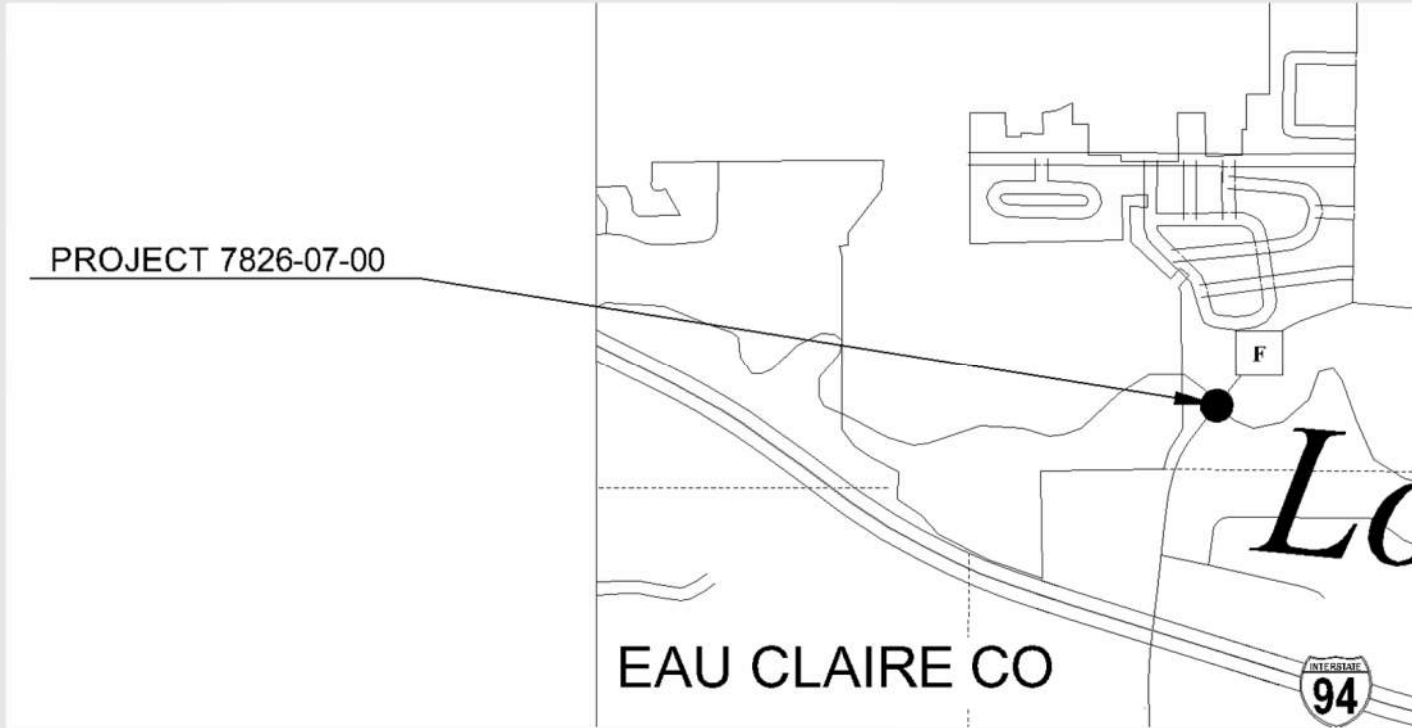


Agenda

- Project Location
- Purpose and Need
- Proposed Improvements
- Real Estate Needs
- Traffic Control – Detour
- Schedule
- Project Contacts
- Public Comment



Project Location



Aerial Courtesy Google Maps 4/29/2024



Purpose and Need

- Functionally Obsolete
 - Bridge clear width does not meet current standards.
- Structural Deficiencies
 - Sufficiency Rating of 49.4 (out of 100).
- Safety
 - Existing guardrail does not meet current standards.



Proposed Improvements

Structure over Lowes Creek

- 36-ft Clear Width
 - 24-ft existing clear width.
 - Improved width for bicyclist accommodations.
- 15° Skew of Piers, Abutments
 - Better alignment with Lowes Creek.



Proposed Improvements

CTH F Roadway

- Midwest Guardrail System (MGS)
 - Meets current WisDOT standards
- Side Slopes meeting current WisDOT standards



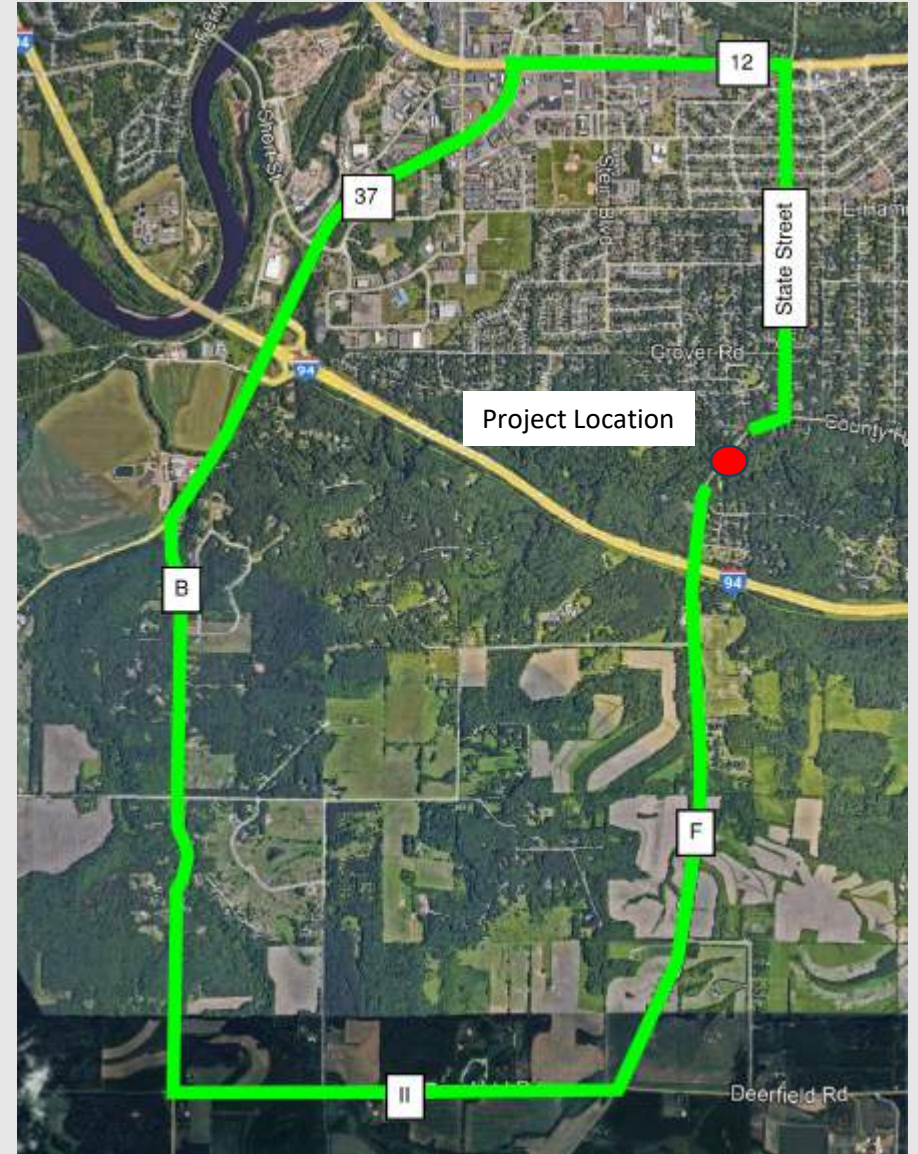
Real Estate Needs

- All project improvements are anticipated to occur within the existing right-of-way.
 - No right-of-way acquisitions anticipated.



Traffic Control - Detour

- CTH F
- CTH II
- CTH B
- WIS 37
- US 12
- State Street (C Eau Claire)
 - Patton St and Lexington Blvd
- CTH F



Traffic Control - Detour

- Detour is for thru vehicular traffic
 - Local traffic can still utilize CTH F for access to properties, except at the project location
 - Unable to cross Lowes Creek
- Chippewa Valley Bicycle Route 17 will not have detoured route
 - Temporarily closed in area of project during construction.



Schedule

- Public Involvement Meeting – May 7, 2024
- Public Comment Solicitation Period – May to June 2024
- Final Environmental Document (CEC) – August 1, 2024
- Final Roadway Plans – April 1, 2026
- Plans, Specifications, and Estimate – August 1, 2026
- Project Letting for Contractors – December 8, 2026
- Construction – 2027



Project Contacts

- Eau Claire County Highway Department
 - Travis Pickering, PE – County Engineer
 - travis.pickering@eauclairecounty.gov, (715) 839-2952
- Consultant Project Manager
 - Chris Marcum, PE – JT Engineering Inc.
 - chrism@jt-engineering.com, (715) 563-1951



Public Comment

- Provide comments by **June 3, 2024**

- Via email:

chrism@jt-engineering.com

- Via written comment form,

JT Engineering Inc.

Attn: Chris Marcum

16855 County Highway X

Suite 2

Chippewa Falls, WI 54726

Project Comment Form

Project ID: 7826-07-00
County F
Loves Creek Bridge
Eau Claire County

Please send this form to the project team by June 3rd, 2024 to the address at the bottom of this sheet. Comments can also be e-mailed to chrism@jt-engineering.com. Your comments assist us in developing a project that will serve the needs of the traveling public as well as the needs of the local community. Your input is welcome and appreciated throughout the design process.

Name: _____

Address: _____

Daytime Phone Number (optional): _____

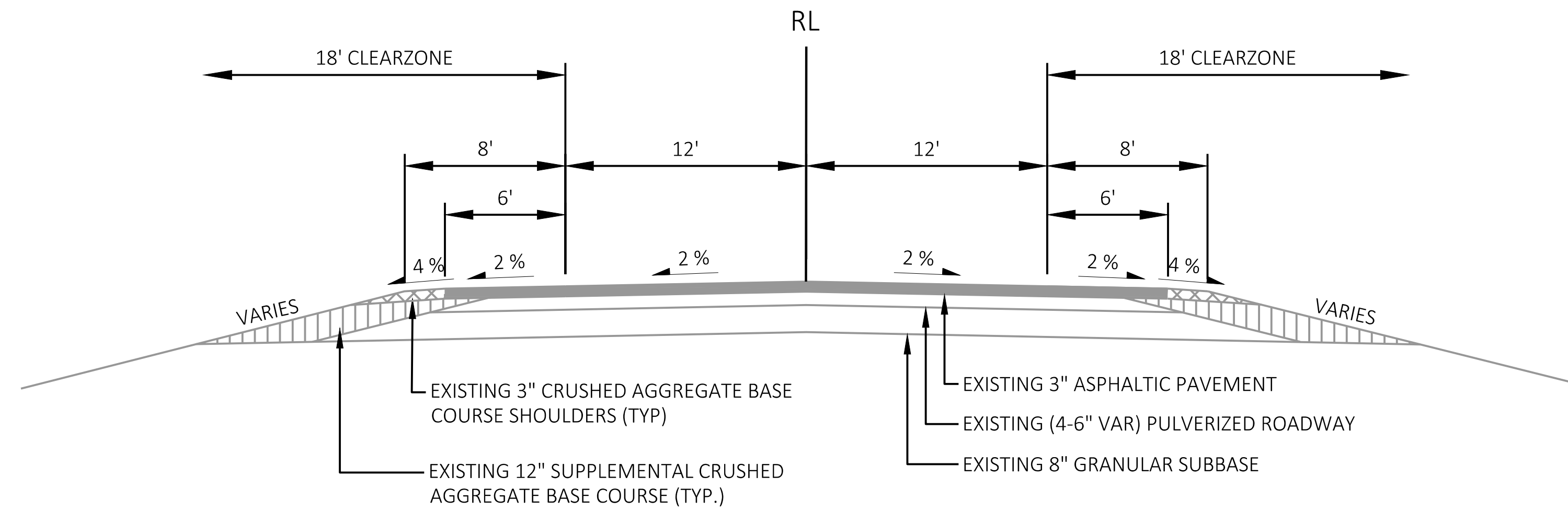
Email Address (optional): _____

Please Print Comments (attach additional sheets if necessary)

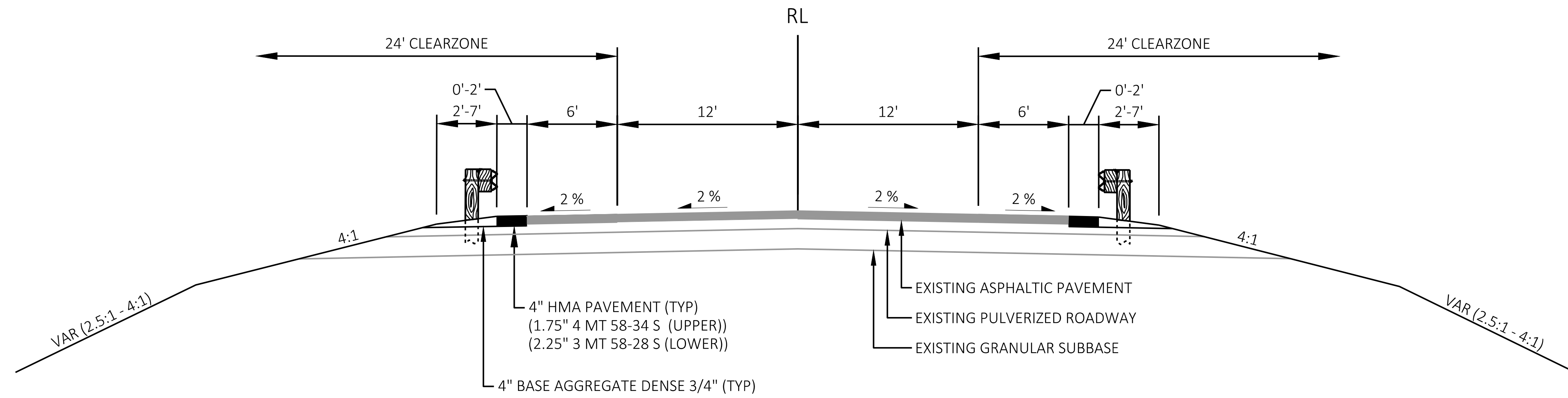
Send Comments to:
JT Engineering, Inc.
Attn: Chris Marcum
16855 County Highway X, Suite 2
Chippewa Falls, WI 54726



NOT FOR
CONSTRUCTION

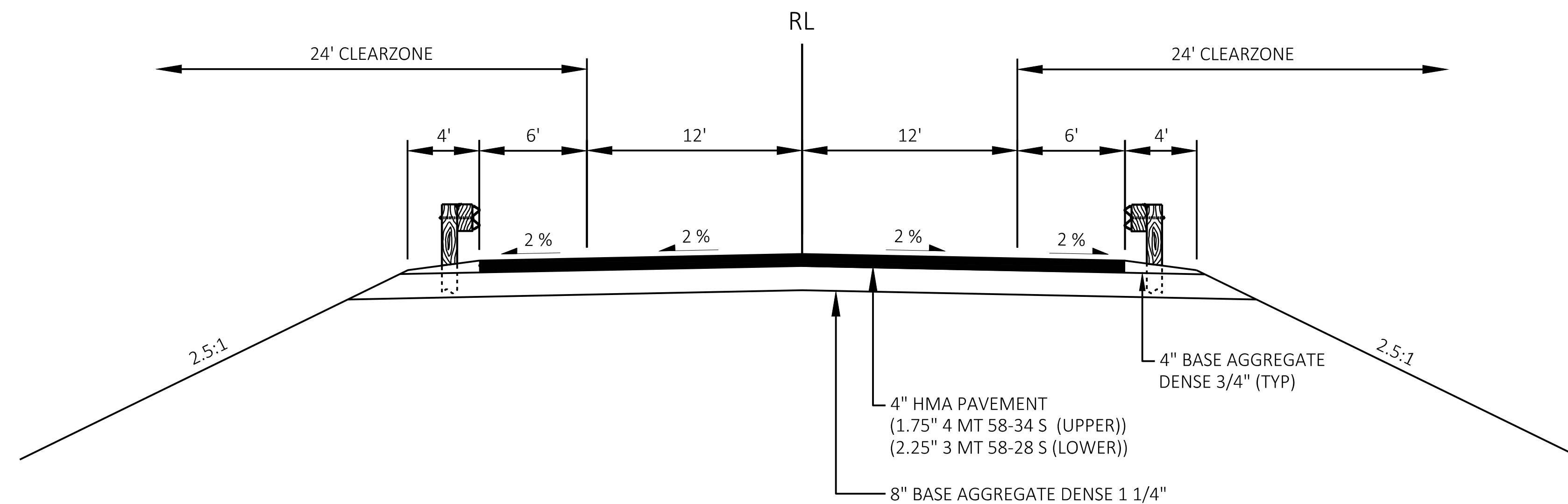


TYPICAL EXISTING SECTION - CTH F
STA 346+90.00 TO STA 351+00.00



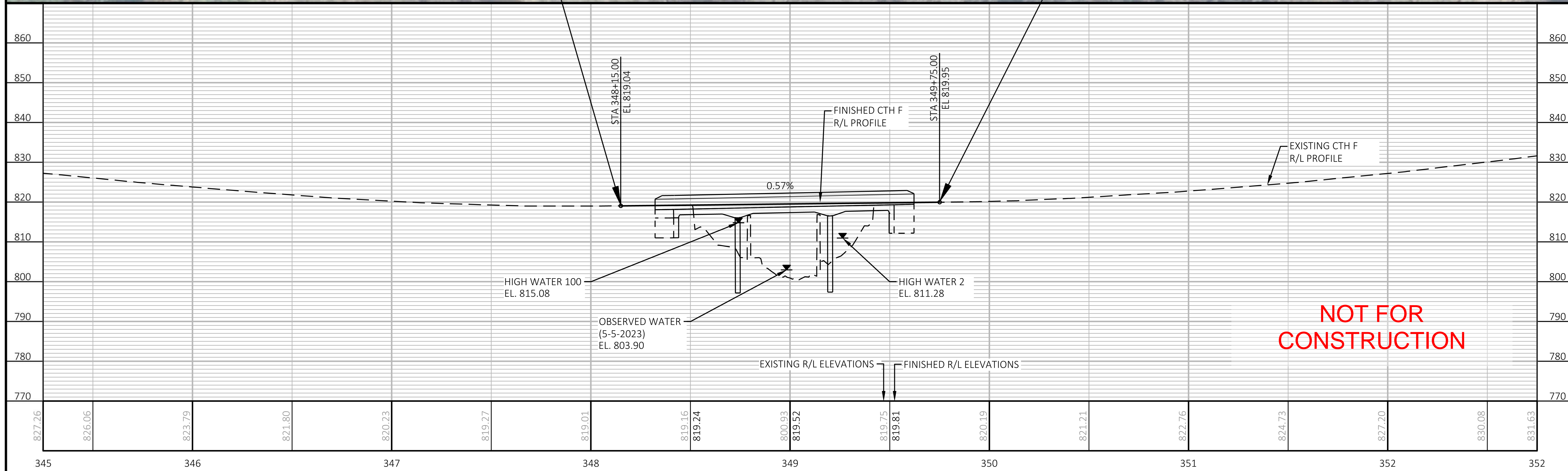
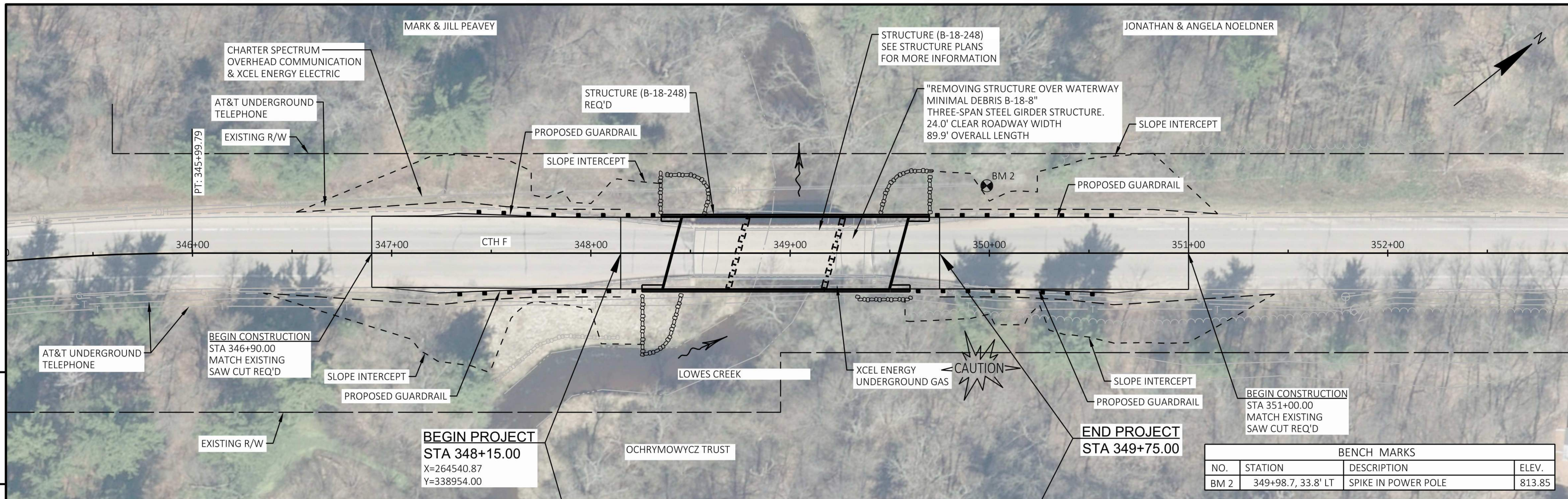
FINISHED TYPICAL SECTION - CTH F

STA 346+90.00 TO STA 348+15.00
STA 349+75.00 TO STA 351+00.00



FINISHED TYPICAL SECTION - CTH F

STA 348+15.00 TO STA 349+75.00



NOT FOR CONSTRUCTION

PROJECT NO: 7826-07-70	HWY: CTH F	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH F	SHEET	E
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DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
 INVENTORY RATING: RF =
 OPERATING RATING: RF =
 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): XXX (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
 SUPERSTRUCTURE & STRUCTURAL APPROACH SLAB $f'_c = 4,000$ PSI
 ALL OTHER $f'_c = 3,500$ PSI

BAR STEEL REINFORCEMENT
 GRADE 60 $f_y = 60,000$ PSI
 STAINLESS, GRADE 60 $f_y = 60,000$ PSI

FOUNDATION DATA

ABUTMENTS AND PIERS TO BE SUPPORTED ON STEEL HP 10-INCH X 42 LB PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.

ESTIMATED 70'-0" LONG AT WEST ABUTMENT.
 ESTIMATED 70'-0" LONG AT EAST ABUTMENT.
 ESTIMATED 80'-0" LONG AT PIER 1.
 ESTIMATED 90'-0" LONG AT PIER 2.

**THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE PILE CAPACITY.

HYDRAULIC DATA

100-YEAR FREQUENCY:

$Q_{100} = 3,700$ C.F.S.
 $V_{100} = 4.81$ F.P.S.
 $HW_{100} = EL. 815.08$
 WATERWAY AREA = 769 SQ. FT.
 DRAINAGE AREA = 62.3 SQ. MI.
 ROADWAY OVERTOPPING = N/A
 SCOUR CRITICAL CODE = 8

2-YEAR FREQUENCY:

$Q_2 = 1,200$ C.F.S.
 $V_2 = 2.75$ F.P.S.
 $HW_2 = EL. 811.28$

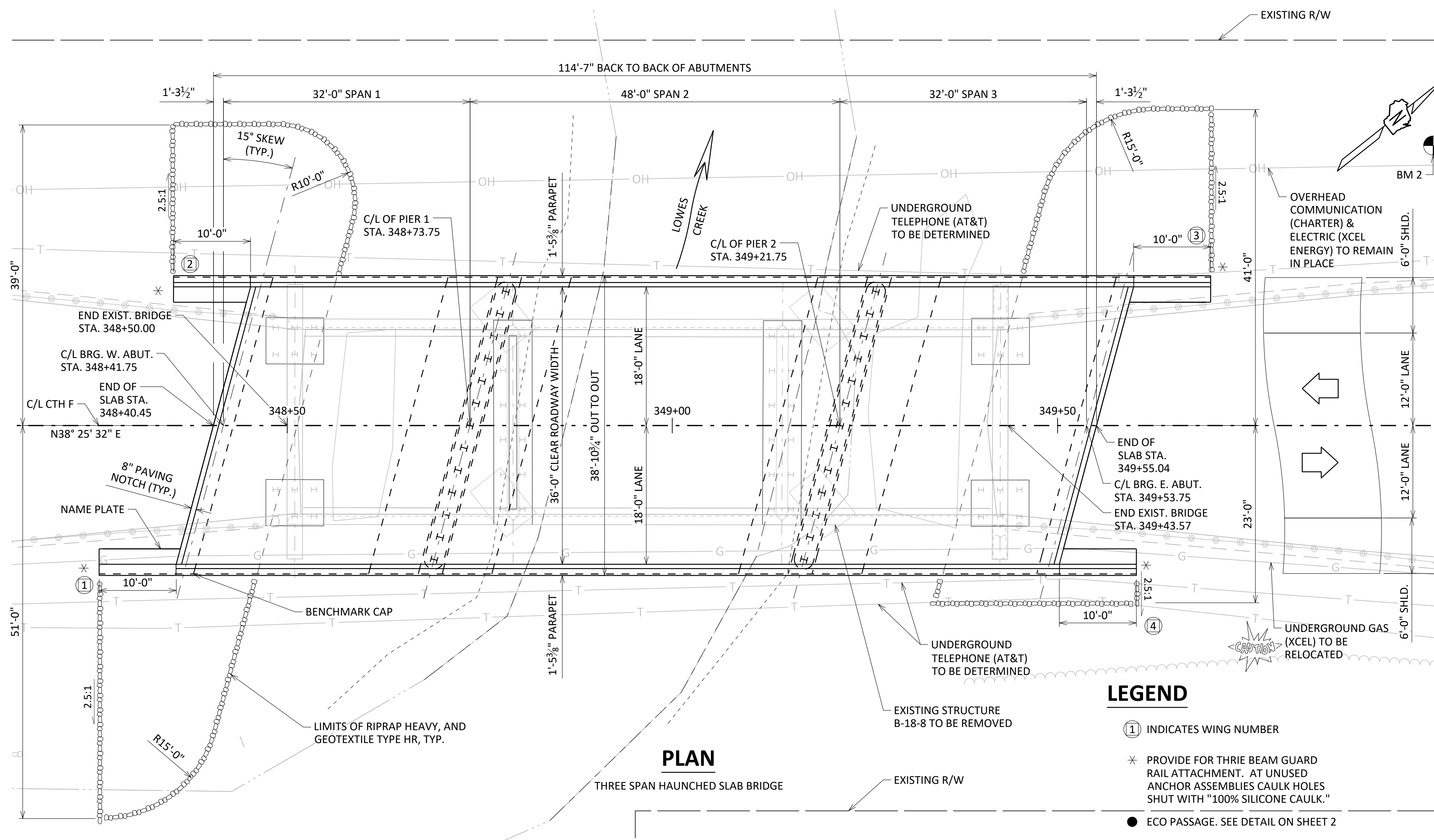
TRAFFIC DATA

FEATURE ON: CTH F

ADT = 2,850 (2047)
 R.D.S. = 60 MPH

LIST OF DRAWINGS:

1. GENERAL PLAN & ELEVATION
2. DETAILS & QUANTITIES
3. CROSS SECTION
4. SUBSURFACE EXPLORATION

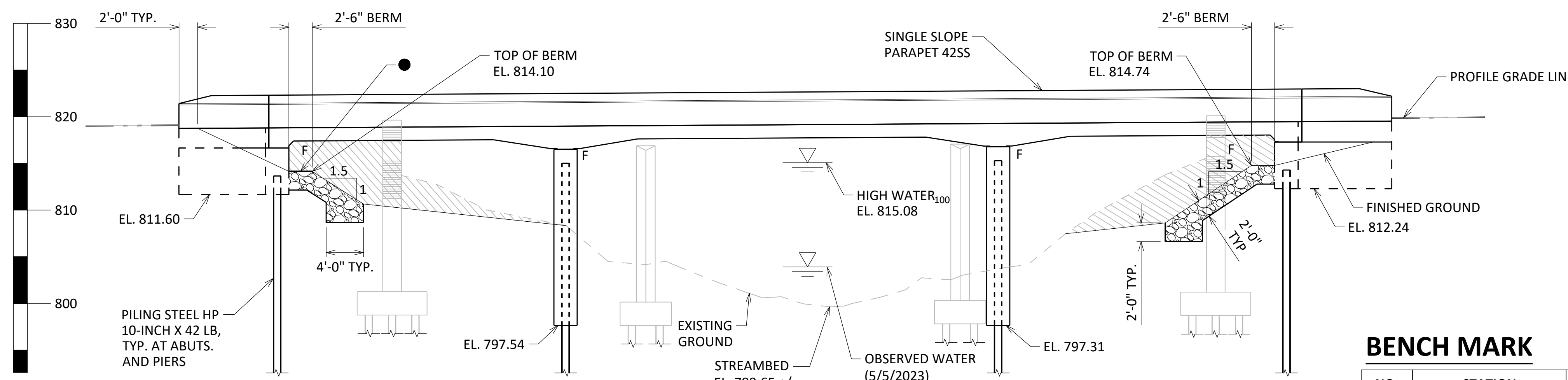


PLAN

THREE SPAN HAUNCHED SLAB BRIDGE

LEGEND

- ① INDICATES WING NUMBER
- * PROVIDE FOR THREE BEAM GUARD RAIL ATTACHMENT. AT UNUSED ANCHOR ASSEMBLIES CAULK HOLES SHUT WITH "100% SILICONE CAULK."
- ECO PASSAGE. SEE DETAIL ON SHEET 2
- F FIXED BEARING



ELEVATION

LOOKING NORTH
 (NORMAL TO LOWES CREEK)

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
BM 2	349+98.74, 33.82' LT	SPIKE IN POWER POLE	813.85

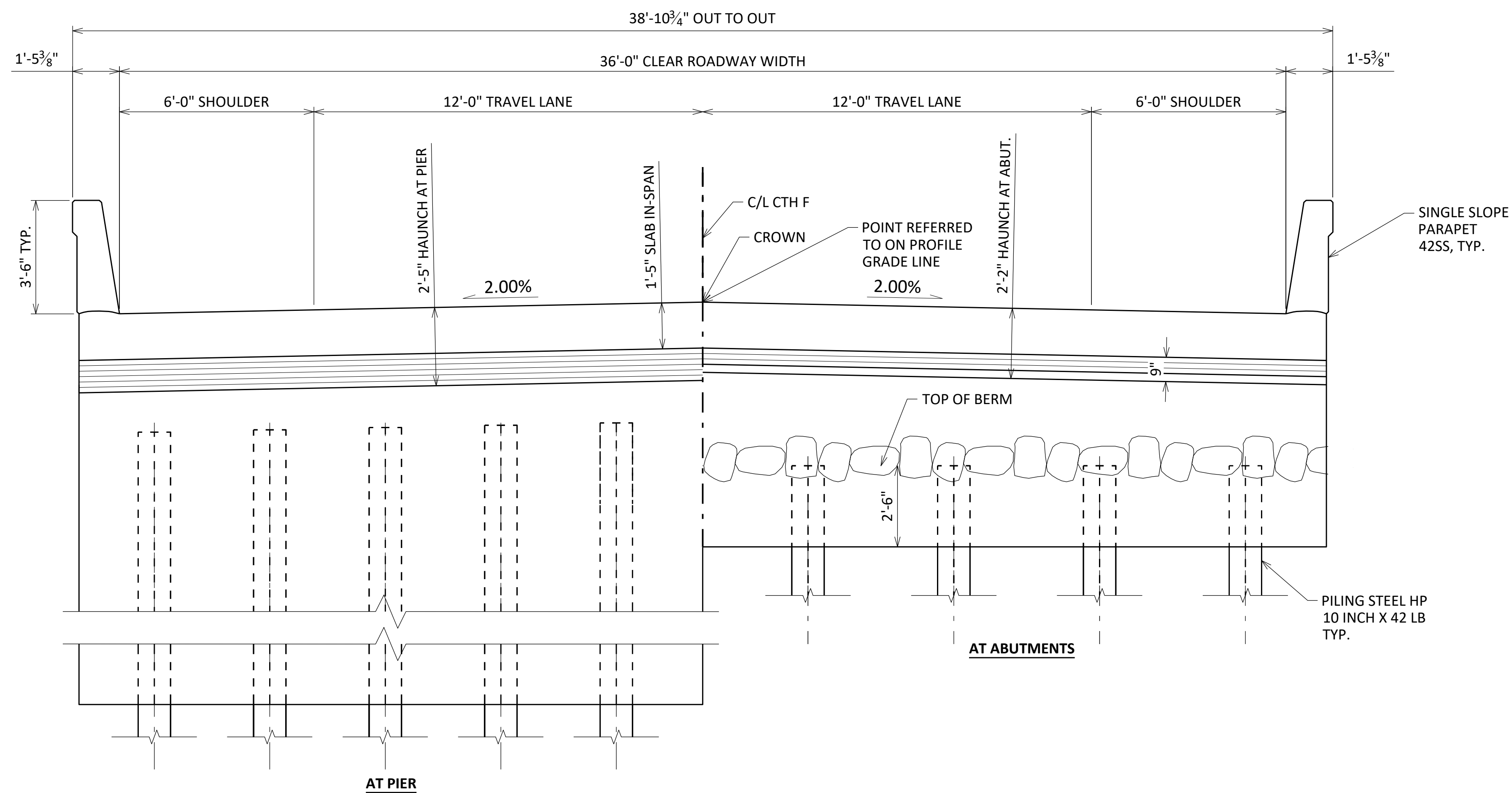
STRUCTURE DESIGN CONTACTS:

AARON BONK, P.E. 608-261-0261
 CHRISOPHER MARCUM, P.E. 715-861-4823

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NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED		CHIEF STRUCTURES DESIGN ENGINEER	DATE
STRUCTURE B-18-0248			
CTH F OVER LOWES CREEK			
COUNTY	EAU CLAIRE	TOWN	WASHINGTON
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATION			
DESIGNED BY	DESIGNED BY	DRAWN BY	PLANS BY
CJM	CK'D	EAB	CK'D
GENERAL PLAN & ELEVATION			SHEET 1 OF 4

**NOT FOR
CONSTRUCTION**



TYPICAL CROSS SECTION THRU BRIDGE

LOOKING EAST
DIMENSIONS SHOWN ARE NORMAL TO CENTERLINE

8

8

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-0248			
DRAWN BY		EAB	PLANS CK'D
CROSS SECTION			SHEET 3 OF 4
SCALE =			