

**Red Cedar River Bridge
B-17-0078
Weston - Menomonie
Section 10, T27N, R13W
Project ID: 7881-05-04/74**

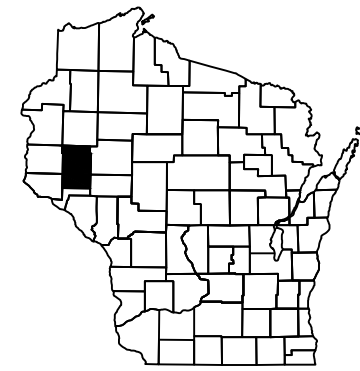
PROJECT ID: 7881-05-74

COUNTY: DUNN

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS =



DESIGN DESIGNATION 7881-05-04

A.A.D.T.	2026	=	1,500
A.A.D.T.	2046	=	1,625
D.H.V.		=	163
D.D.		=	50/50
T.		=	10.0%
DESIGN SPEED		=	35 MPH
ESALS		=	250,000

CONVENTIONAL SYMBOLS

PLAN	PROFILE
CORPORATE LIMITS	GRADE LINE
PROPERTY LINE	ORIGINAL GROUND
LOT LINE	MARSH OR ROCK PROFILE (To be noted as such)
LIMITED HIGHWAY EASEMENT	SPECIAL DITCH
EXISTING RIGHT OF WAY	GRADE ELEVATION
PROPOSED OR NEW R/W LINE	CULVERT (Profile View)
SLOPE INTERCEPT	UTILITIES
REFERENCE LINE	ELECTRIC
EXISTING CULVERT	FIBER OPTIC
PROPOSED CULVERT (Box or Pipe)	GAS
COMBUSTIBLE FLUIDS	SANITARY SEWER
MARSH AREA	STORM SEWER
WOODED OR SHRUB AREA	TELEPHONE
	WATER
	UTILITY PEDESTAL
	POWER POLE
	TELEPHONE POLE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

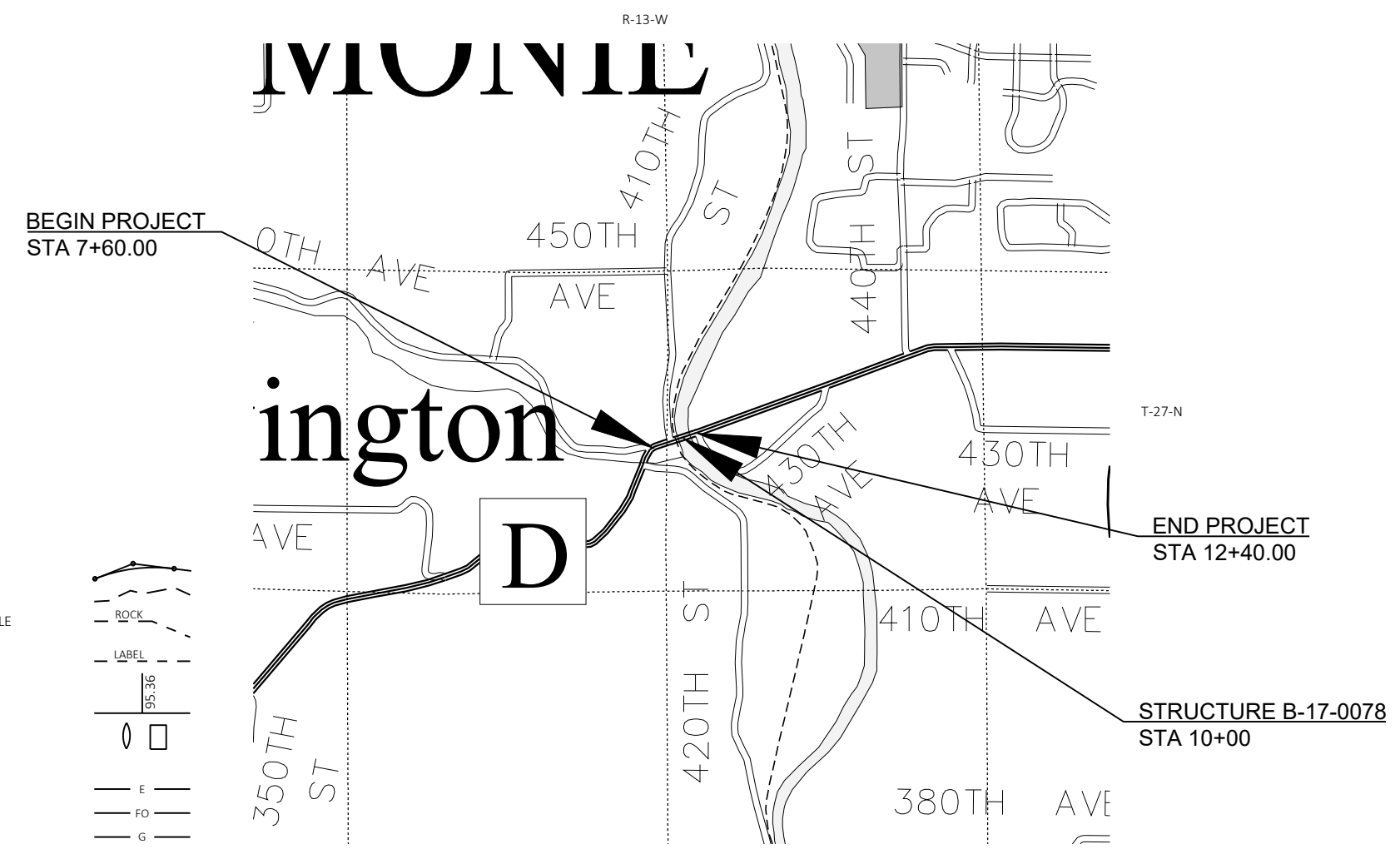
PLAN OF PROPOSED IMPROVEMENT

WESTON - MENOMONIE

RED CEDAR RIVER BRIDGE B-17-0078

CTH D DUNN COUNTY

STATE PROJECT NUMBER
7881-05-74



LAYOUT
SCALE 0 0.5 MI
TOTAL NET LENGTH OF CENTERLINE = 0.091

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), DUNN COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.
ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7881-05-74		

ACCEPTED FOR
COUNTY of DUNN

(Date) (Signature & Title of Official)

ORIGINAL PLANS PREPARED BY
SEH Short Elliott Hendrickson Inc.
6808 Odana Road, Suite 200
Madison, WI 53719-1137
Building a Better World for All of Us™ 608.620.6199 main | 888.908.8166 fax
800.732.4362 toll free | www.sehinc.com

PRELIMINARY
30% REVIEW
NOT FOR BIDDING OR
CONSTRUCTION

(Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	SEH
Designer	SEH
Project Manager	PROJECT MANAGER
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	REGIONAL SUPERVISOR

APPROVED FOR THE DEPARTMENT
DATE: (Signature)

E

STANDARD ABBREVIATIONS:

Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Includes terms like ABUTMENT, ACRE, AGGREGATE, etc.

WISCONSIN DNR LIAISON

LEAH NICOL
DNR WEST CENTRAL REGION HEADQUARTERS
1300 WEST CLAIREMONT AVENUE
EAU CLAIRE, WI 54701
PHONE: 715-934-9014
EMAIL: LEAH.NICOL@WISCONSIN.GOV

WISDOT PROJECT MANAGER

MATTHEW BERG
WISDOT NORTHWEST REGION
718 WEST CLAIREMONT AVENUE
EAU CLAIRE, WI 54701
PHONE: 920-366-4750
EMAIL: MATTHEW.BERG@DOT.WI.GOV

COUNTY HIGHWAY COMMISSIONER

DUSTIN BINDER
DUNN COUNTY HIGHWAY DIVISION
303 US HIGHWAY 12 EAST
MENOMONIE, WI 54751
PHONE: 715-231-6587
EMAIL: DBINDER@CO.DUNN.WI.US

DESIGN PROJECT MANAGER

CHRISTOPHER BLUM
SHORT ELLIOTT HENDRICKSON, INC.
6808 ODANA ROAD, SUITE 200
MADISON, WI 53719
PHONE: 608-620-6192
EMAIL: CBLUM@SEHINC.COM

UTILITIES CONTACTS

DUNN ENERGY COOPERATIVE
ELECTRIC
LOREN LUZINSKI
PO BOX 220
MENOMONIE, WI 54741
PHONE: 715-232-6240
EMAIL: LOREN@DUNNENERGY.COM

WEST WISCONSIN TELCOM
COMMUNICATIONS
BRADLEY SCHMIDTKNECHT
912 CRESCENT STREET
MENOMONIE, WI 54751
PHONE: 715-231-0504
EMAIL: BRADS@WWT.COOP

GENERAL NOTES

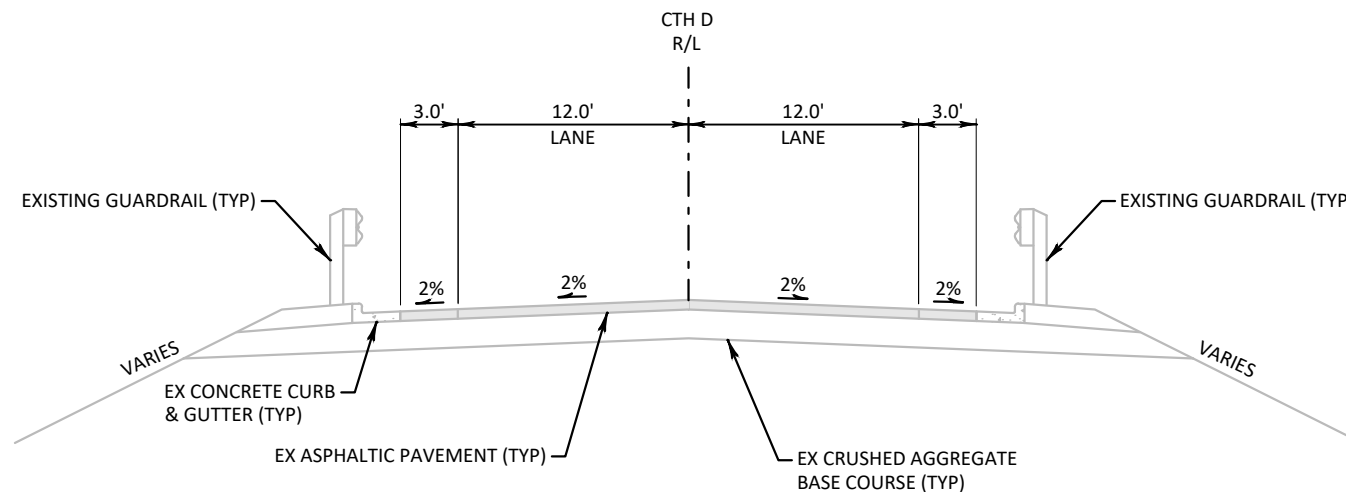
- 1. NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
3. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.
4. PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLANS WITH THE ENGINEER.
5. WETLANDS, WATERWAYS, AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIALS NEAR THESE SITES UNLESS APPROVED BY THE ENGINEER.
6. INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.
7. BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP.
8. CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 4-INCH TYPICAL DEPTH.
9. TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
10. REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.
11. THE EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
12. ASPHALTIC SURFACES SHALL BE SAWCUT AT THE MATCH LINE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.
13. DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE TOPSOILED, FERTILIZED, SEEDED AND EROSION MATTED.
14. FERTILIZER SHALL NOT BE USED NEAR NAVIGABLE WATERWAYS OR WETLANDS.
15. A CONVERSION FACTOR OF 2.0 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE AGGREGATE DENSE.
16. APPLY TACK COAT AT A RATE OF 0.05 GA/SY BETWEEN LAYERS OF HMA PAVEMENT.
17. HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.
18. THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN AND TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING OR PARKING LANE.

RUNOFF COEFFICIENT TABLE

Table with columns for Land Use, Hydrologic Soil Group (A, B, C, D), and Slope Range (Percent). Includes rows for ROW CROPS, MEDIAN STRIPTURF, SIDE SLOPETURF, PAVEMENT, ASPHALT, CONCRETE, BRICK, DRIVES, WALKS, ROOFS, GRAVEL ROADS, SHOULDERS.

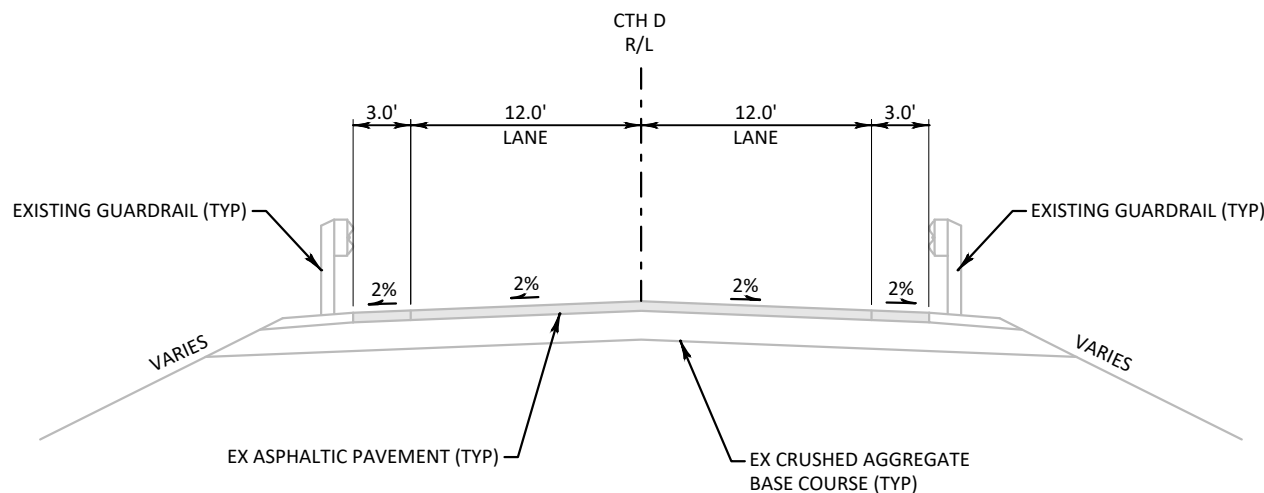
TOTAL PROJECT AREA = ##### ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = ##### ACRES

DIGGERS HOTLINE logo with text: Dial 811 or (800)242-8511 www.DiggersHotline.com



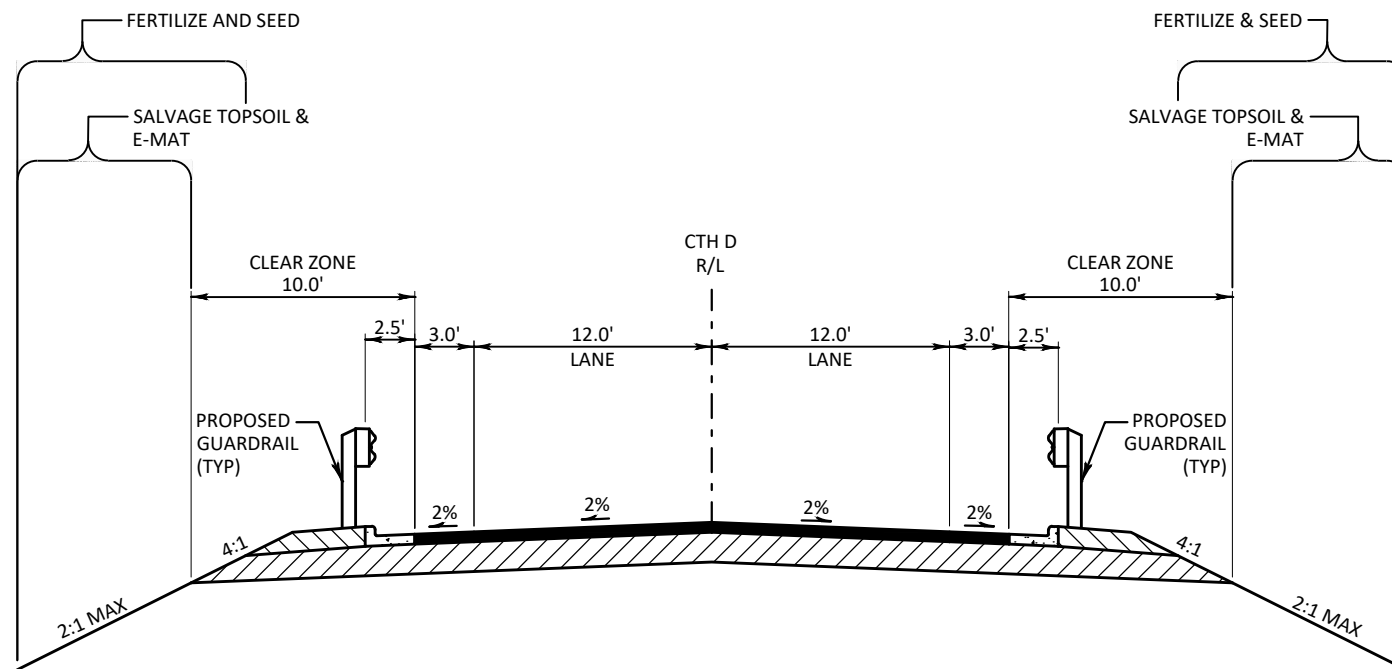
TYPICAL EXISTING SECTION

CTH D
STA 7+60.00 TO STA 8+60.00

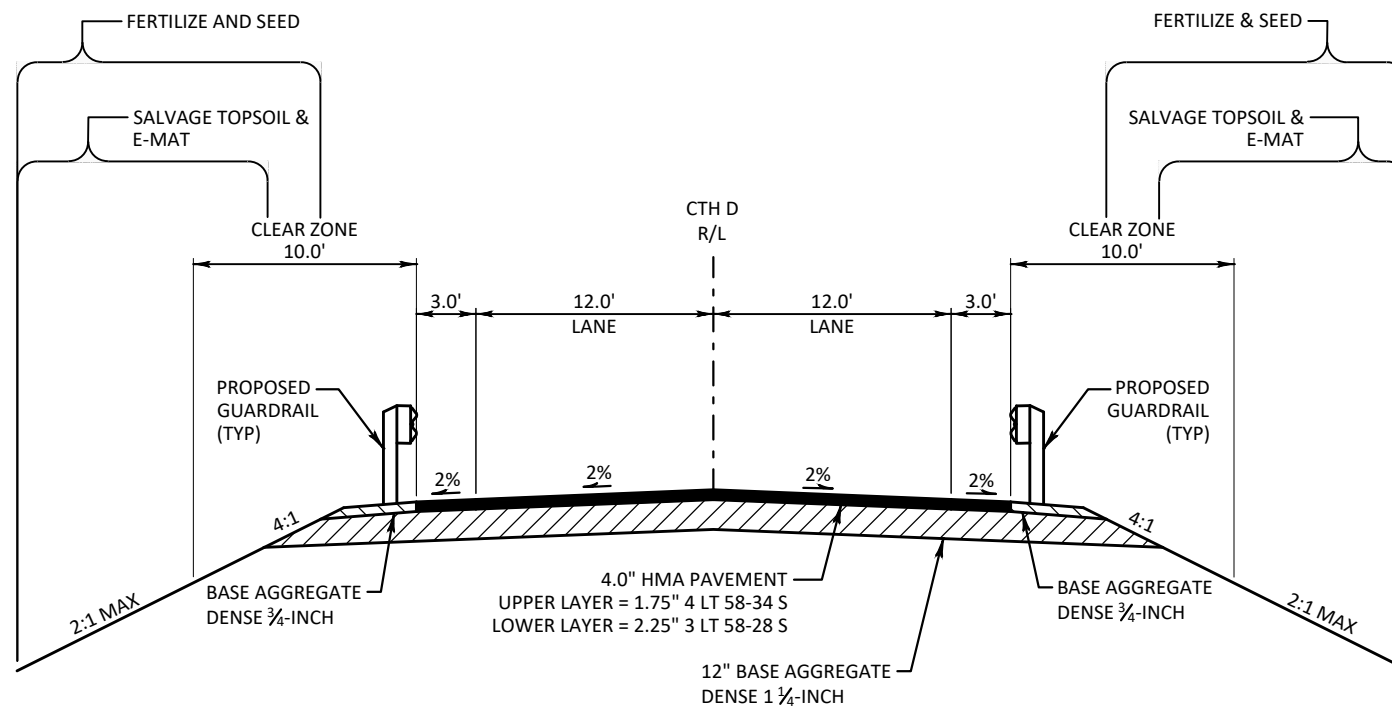


TYPICAL EXISTING SECTION

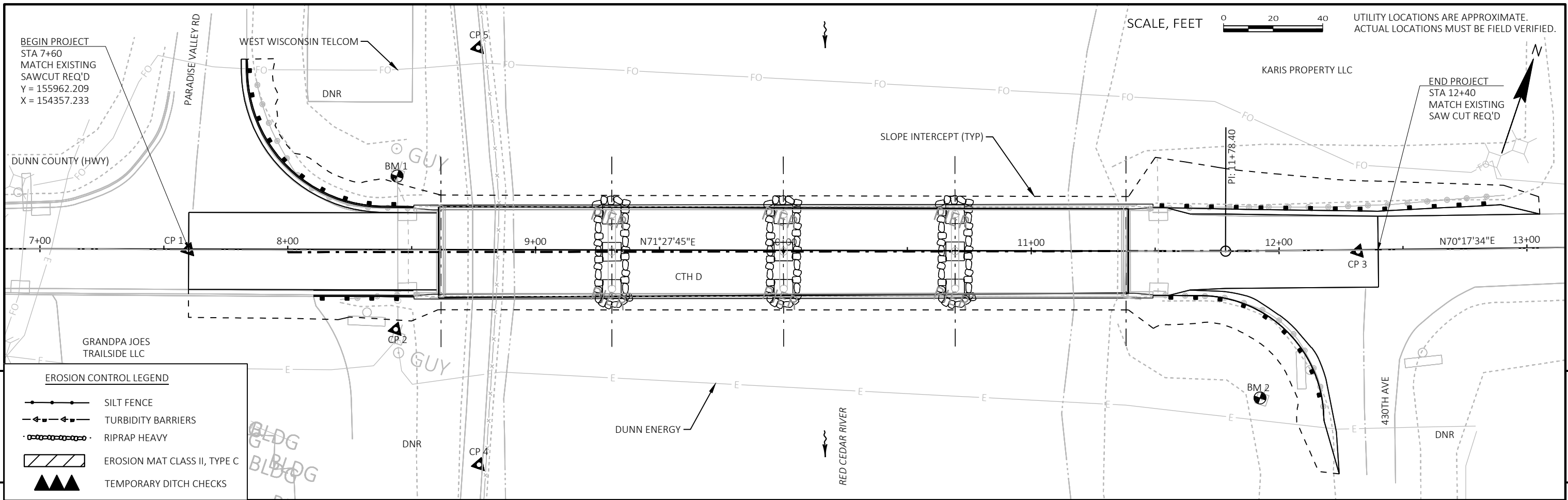
CTH D
STA 11+40.00 TO STA 12+40.00



TYPICAL PROPOSED SECTION
 CTH D
 STA 7+60.00 TO STA 8+60.00

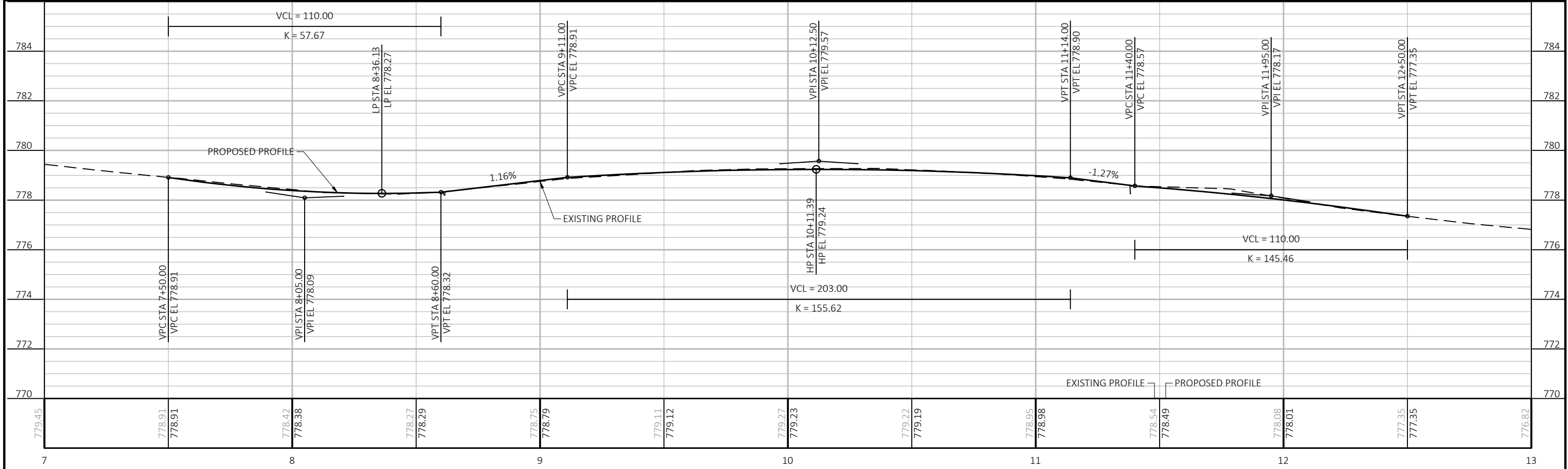


TYPICAL PROPOSED SECTION
 CTH D
 STA 11+40.00 TO STA 12+40.00



EROSION CONTROL LEGEND

- SILT FENCE
- TURBIDITY BARRIERS
- RIPRAP HEAVY
- EROSION MAT CLASS II, TYPE C
- TEMPORARY DITCH CHECKS



PROJECT NO: 7881-05-74	HWY: CTH D	COUNTY: DUNN	PLAN AND PROFILE: CTH D	SHEET E
------------------------	------------	--------------	-------------------------	----------------

① INDICATES WING NUMBER

STATE PROJECT NUMBER

7881-05-74

DESIGN DATA

LIVE LOAD:

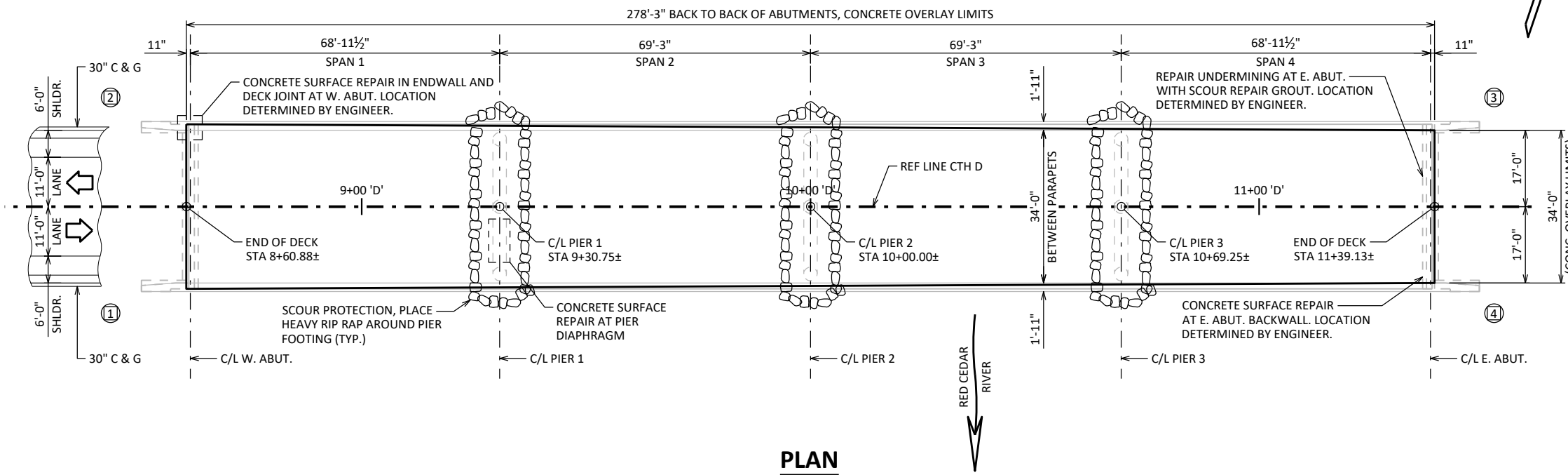
DESIGN LOADING: HS20
 INVENTORY RATING: HS
 OPERATING RATING: HS
 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): XXX (KIPS)

MATERIAL PROPERTIES:

CONCRETE MASONRY:
 OVERLAY DECKS $f'_c = 4,000$ PSI
 ALL OTHER $f'_c = 3,500$ PSI
 BAR STEEL REINFORCEMENT
 GRADE 60 $f_y = 60,000$ PSI

TRAFFIC DATA

FEATURE ON: CTH D
 ADT = 1,284 (2024)
 R.D.S. = 35 MPH



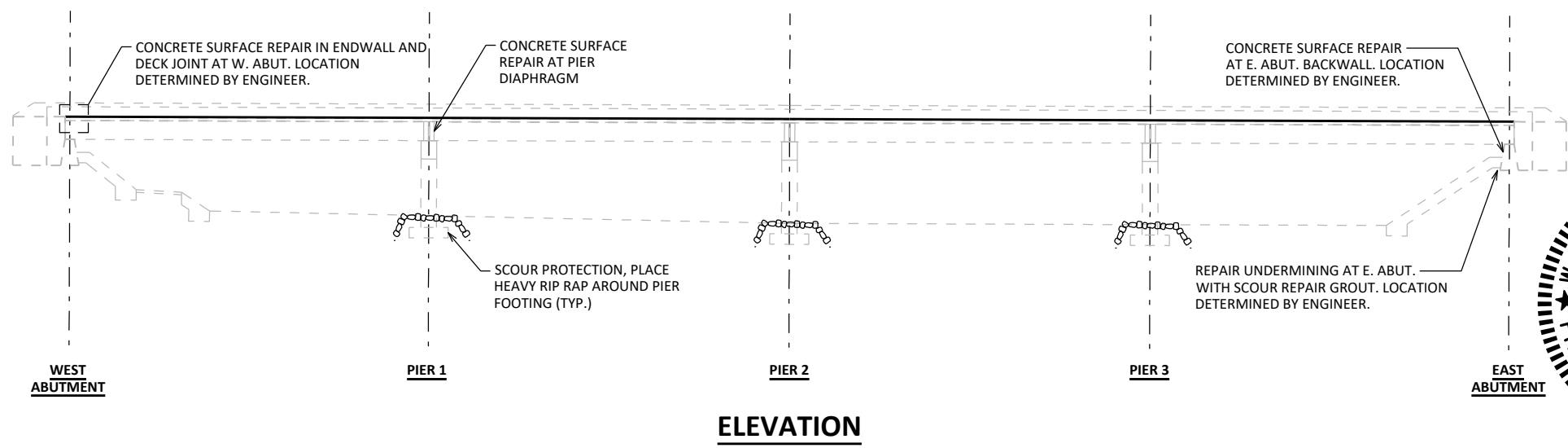
PLAN
 (4 SPAN - 45" PRESTRESSED GIRDERS)

LIST OF DRAWINGS:

- BRIDGE REHABILITATION & CONCRETE OVERLAY
- CROSS SECTION NOTES AND QUANTITIES


STRUCTURE DESIGN CONTACTS:

CHRIS BLUM 608-620-6192
 AARON BONK 608-261-0261



ELEVATION

NO.	DATE	REVISION	BY



SHORT ELLIOTT HENDRICKSON INC.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ DATE _____
 CHIEF STRUCTURES DESIGN ENGINEER

STRUCTURE B-17-78

CTH D OVER RED CEDAR RIVER

COUNTY DUNN TOWN/CITY/VILLAGE MENOMONIE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATION

DESIGNED BY	DKW	DESIGN CK'D	JGM	DRAWN BY	RAD	PLANS CK'D	DKW
-------------	-----	-------------	-----	----------	-----	------------	-----

BRIDGE REHABILITATION & CONCRETE OVERLAY

SHEET 1 OF 2

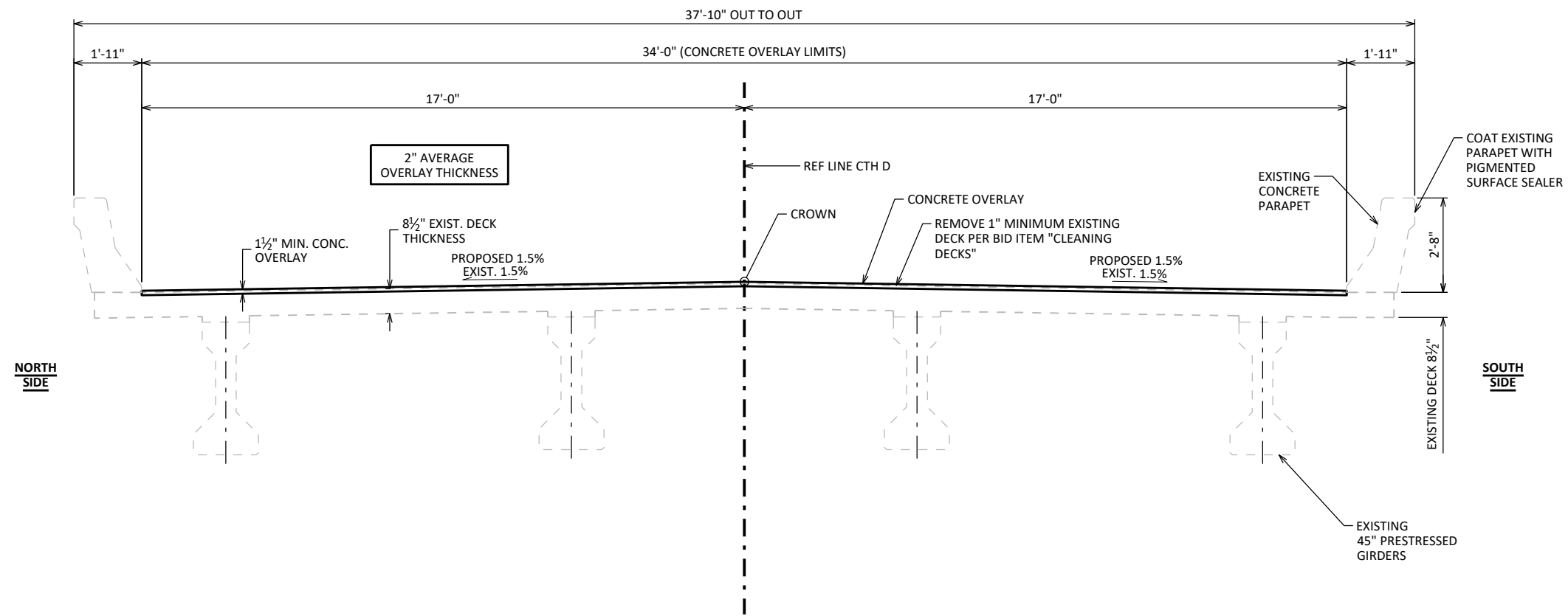
I.D. DATE:

8

8

GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED.
- DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
- PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF THE NEW CONCRETE OVERLAY.
- SEAL OVERLAY CONSTRUCTION JOINTS ACCORDING TO SECTION 502.3.13.1 OF THE STANDARD SPECIFICATIONS. COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY OVERLAY DECKS".
- A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".
- THE AVERAGE OVERLAY THICKNESS IS BASED ON THE MINIMUM OVERLAY THICKNESS PLUS 1/2-INCH TO ACCOUNT FOR VARIATIONS IN THE DECK SURFACE.
- PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, AND FULL-DEPTH DECK REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".
- ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".
- PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1 1/2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2" (OR AS GIVEN ON PLANS). IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.



CROSS SECTION THRU BRIDGE
(LOOKING EAST)

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
① 502.3200	PROTECTIVE SURFACE TREATMENT	SY	
② 502.3205	PIGMENTED SURFACE SEALER RESEAL	SY	
509.0301	PREPARATION DECKS TYPE 1	SY	
509.0302	PREPARATION DECKS TYPE 2	SY	
509.0500	CLEANING DECKS	SY	
509.1500	CONCRETE SURFACE REPAIR	SF	
509.2000	FULL-DEPTH DECK REPAIR	SY	
③ 509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	
606.0300	RIPRAP HEAVY	CY	
④ SPV.0035	SCOUR REPAIR GROUT	CY	

- ① PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO DECK OVERLAY.
- ② FURNISH AND APPLY PIGMENTED SURFACE SEALER TO FRONT FACE, TOP, AND ENDS OF CONCRETE PARAPETS PER STANDARD SPECIFICATIONS. INCLUDES PARAPETS ON WINGWALLS AND DECK.
- ③ ALSO INCLUDES CONCRETE FOR: PREPARATION DECKS TYPE 1&2 AND FULL DEPTH DECK REPAIR.
- ④ TO BE USED AT NORTH ABUTMENT UNDERMINING AS DIRECTED BY ENGINEER.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-17-78			
DRAWN BY		PLANS CK'D	
RAD		DKW	
CROSS SECTION NOTES AND QUANTITIES			SHEET 2 OF 2