

Public Informational Material

Project I.D. 8383-00-00

T Brule, After Hours Road Nebagamon Creek Bridge B-16-0152 After Hours Road Douglas County

January 26, 2024



Public Informational Material

After Hours Road

Prepared for Town of Brule

1 Project Description

The proposed project involves the removal and replacement of the existing structure on After Hours Rd over Nebagamon Creek in the Town of Brule, Douglas County. See After Hours Rd Project Location Map. The existing structure has reached the end of its useful life expectancy. The existing structure consists of a 34-foot two-span steel girder, a traveled way width consisting of 10-foot driving lanes, and varying-width gravel shoulders. The existing structure was built in 1925 and has undergone routine inspection and minor maintenance.

The proposed undertaking consists of the construction of a single span reinforced concrete flat slab bridge with approximately 100 feet of approaches on each side of the bridge (200 feet total). The traveled way and shoulder widths will receive 20-feet of new asphaltic pavement and 3-foot gravel shoulders. See After Hours Rd Plan Set.

The speed limit of the project limits is 40 mph. There is no right-of-way acquisition involved.

2 Reason for Project

- Superstructure in serious condition
- Substructure in poor condition
- Roadside Safety and Maintenance

3 Traffic Volumes

- 56 Vehicles per day (2025)
- 79 Vehicles per day (2045, design year)
- 10% trucks

4 Proposed Roadway Details

- Using Existing Alignment
- Reconstruction of roadway approaches (200 feet total)
- New Asphalt Pavement
- New Gravel Shoulders

5 Proposed Structure Details

• Superstructure Type: Single Span Reinforced Concrete Flat Slab

Railing Type: Tubular Railing Type M

• Clear Width: 24 feet

Structure Length: 44-foot Span

Skew: None

Wingwall Formation: 45-degree wings

6 Traffic During Construction

Roadway will be Closed to Traffic

> No detour provided in plan.

7 | Scheduling Dates

Final Plan, Specifications & Estimate: August 1, 2024

Letting Date: December 11, 2024

• Begin Construction: 2025

8 Contacts

Design Consultant
 Project Manager: Chris Blum, P.E. (WI)
 Short Elliott Hendrickson, Inc.
 6808 Odana Road, Suite 200
 Madison, WI 53719
 608-620-6192
 cblum@sehinc.com

Town of Brule
Town Clerk: Diane Nelson
5231 S County Line Road
Brule, WI 54820
218-591-0693
drthomp999@gmail.com

Building a Better World for All of Us®

Sustainable buildings, sound infrastructure, safe transportation systems, clean water, renewable energy and a balanced environment. Building a Better World for All of Us communicates a company-wide commitment to act in the best interests of our clients and the world around us.

We're confident in our ability to balance these requirements.

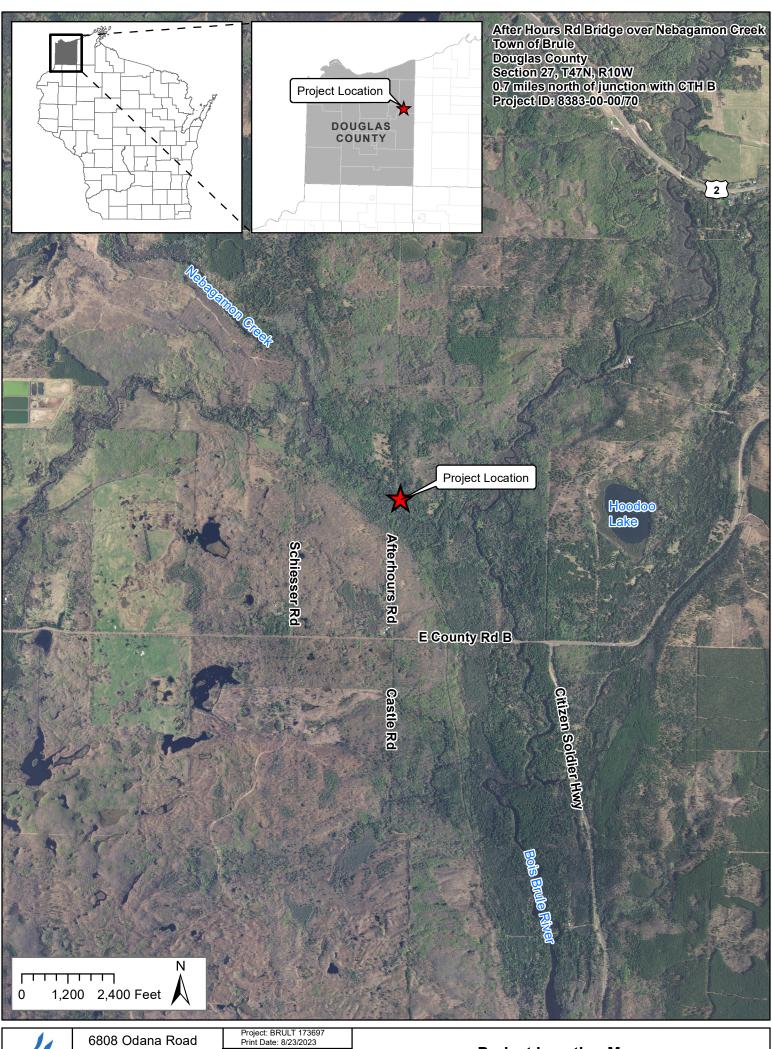
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6808 Odana Road Suite 200 Madison, WI 53719 (608) 620-6199

Map by: Jgreen
Projection: WISCRS,
Douglas County (ft)
Source: WDNR, Douglas Co.

Project Location Map Winneboujou, Douglas County, WI

ORDER OF SHEETS

Section No. Section No. Typical Sections and Details Section No. Estimate of Quantities Section No.

Section No. Right of Way Plat Section No. Section No. Standard Detail Drawings

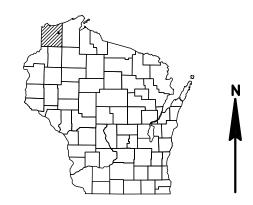
Section No. Computer Earthwork Data

TOTAL SHEETS =

Section No.

Miscellaneous Quantities

Section No.



DESIGN DESIGNATION

A.A.D.T.	2025	=	56
A.A.D.T.	2045	=	79
D.H.V.		=	N/A
D.D.		=	50/50
T.		=	10.0%
DESIGN SPEED		=	40 MPF
ESALS		=	22,000

CONVENTIONAL SYMBOLS

WOODED OR SHRUB AREA

	PROFILE	
<u> </u>	GRADE LINE	
	ORIGINAL GROUND	_^_`
	MARSH OR ROCK PROFILE (To be noted as such)	_ ROCK
L	SPECIAL DITCH	LABEL
		95.36
	GRADE ELEVATION	95
	CULVERT (Profile View)	0 □
300'EB'	UTILITIES	
	ELECTRIC	— Е —
	FIBER OPTIC	—— FO ——
	GAS	—— G —
.\1	SANITARY SEWER	—— SAN —
-CAUTION-	STORM SEWER	—— ss ——
7/1	TELEPHONE	— т —
(= = = j	WATER	—— w —
	UTILITY PEDESTAL	Д
~~~~~~~	POWER POLE	6
	 L	GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION  CULVERT (Profile View) UTILITIES ELECTRIC FIBER OPTIC GAS SANITARY SEWER STORM SEWER TELEPHONE WATER UTILITY PEDESTAL

## STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

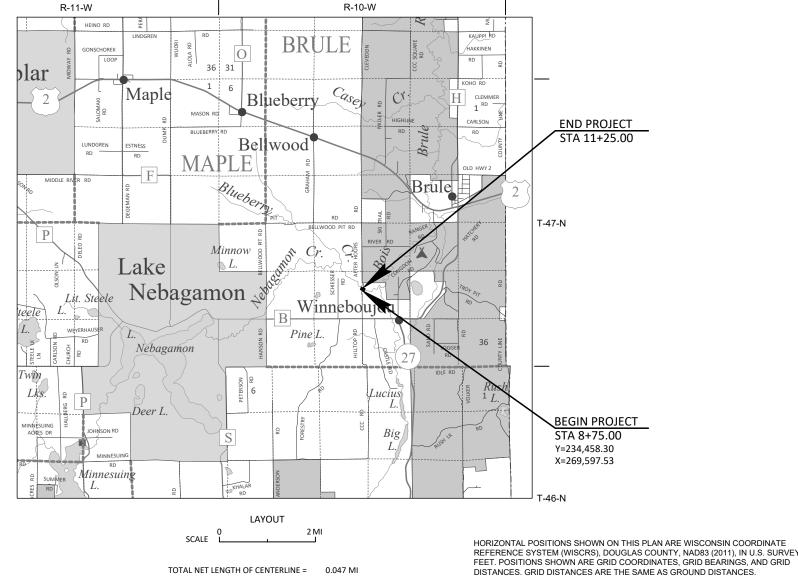
PLAN OF PROPOSED IMPROVEMENT

## **NEBAGAMON CREEK BRIDGE B-16-0152**

T BRULE. AFTER HOURS ROAD

## **LOC STR DOUGLAS COUNTY**

STATE PROJECT NUMBER 8383-00-70



FEDERAL PROJECT STATE PROJECT CONTRACT 8383-00-70

> ACCEPTED FOR TOWN **BRULE**

(Signature & Title of Official)

#### ORIGINAL PLANS PREPARED BY



#### STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

NEFARED BI	
Surveyor	SEH
Designer	SEH
Project Manager	
Regional Examiner	
Regional Supervisor	
PPROVED FOR THE DEPAR	TMENT

Ε

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS

FILE NAME: X:\AE\B\BRULT\173697\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\C3D-AFTERHOURSRD\SHEETS\SEC 01 TITLE\010101-TI (TITLE SHEET 8383-00-00 AFTER HOURS RD.DWG

TELEPHONE POLE

1/5/2024 11:29 AM

PLOT BY:

## STANDARD ABBREVIATIONS:

**INSIDE DIAMETER ABUT** ABUTMENT ID INV INVERT AGGREGATE IRON PIPE ON PIN AGG IΡ APRON ENDWALL FOR CULVERT PIPE LEFT-HAND FORWARD LHF AECPRO REINFORCED CONCRETE APRON ENDWALL FOR CULVERT PIPE LENGTH OF CURVE LINEAR FOOT 1 F CORRUGATED STEEL LC LONG CHORD OF CURVE ΔSPH ASPHALTIC LS LUMP SUM **AVERAGE** AVG MANHOLE MH AVERAGE DAILY TRAFFIC ADT MOR MID POINT OF RADIUS BF **BACK FACE NORMAL CROWN** NC **BENCH MARK NUMBER** NO RR BRIDGE **OBLIT OBLITERATE** CE COMMERCIAL ENTRANCE **PAVEMENT** PAVT C/L **CENTER LINE** PE PRIVATE ENTRANCE CENTRAL ANGLE OR DELTA POINT OF VERTICAL REVERSE CURVE **PVRC** COB CENTER OF BARRIER QUARTER POINT OF RADIUS OOR CONC CONCRETE RADIUS **CULVERT PIPE REINFORCED CONCRETE** REQ'D **REQUIRED** CULVERT PIPE REINFORCED CONCRETE CPRCHE RESIDENCE OR RESIDENTIAL RES HORIZONTAL ELLIPTICAL RHF RIGHT-HAND FORWARD CR CREEK R/W RIGHT-OF-WAY CY **CUBIC YARD RIVER CURB AND GUTTER** C&G **ROADWAY RDWY** DEGREE OF CURVE R/L REFERENCE LINE DHV **DESIGN HOUR VOLUME** SALVAGED SALV DISCH DISCHARGE SAN **SANITARY SEWER** DITCH GRADE DG SF **SQUARE FEET** DWY DRIVEWAY SOLIARE YARD SY **EAST GRID COORDINATE** STEEL PLATE BEAM GUARD ENERGY SDD STANDARD DETAIL DRAWINGS EAT STA STATION ARSORRING TERMINAL EOR **END POINT OF RADIUS** SS STORM SEWER STORM SEWER PIPE REINFORCED **ELEVATION** SSPRC ENTRANCE FNT

**DNR AREA LIAISON:** 

DNR NORTHERN REGION HEADQUARTERS 810 W. MAPLE STREET SPOONER, WI 54801 TELEPHONE: 715.635.4229 ATTENTION: AMY CRONK EMAIL: AMY.CRONK@WISCONSIN.GOV

TELEPHONE: 715.579.6776 ATTENTION: PAULA GROOM EMAIL: PAULA.GROOM@DOT.WI.GOV

EAU CLAIRE, WI 54701

**MUNICIPALITY CONTACT:** 

TOWN OF BRULE 5231 S COUNTY LINE ROAD BRULE, WI 54820 TELEPHONE: 218.591.0693 ATTENTION: DIANE NELSON EMAIL: DRTHOMP999@GMAIL.COM DESIGN CONTACT:

WISDOT CONTACT:

WI DEPT OF TRANSPORTATION

718 WEST CLAIREMONT AVENUE

SHORT ELLIOTT HENDRICKSON INC 6808 ODANA ROAD, SUITE 200 MADISON, WI 53719-1137 TELEPHONE: 608.620.6192 ATTENTION: CHRISTOPHER BLUM EMAIL: CBLUM@SEHINC.COM

9221 E MAIN STREET SOLON SPRINGS, WI 54873 TELEPHONE: 715.378.2205 ATTENTION: SCOTT SELLWOOD

NORVADO P.O. BOX 67 CABLE, WI 54821 TELEPHONE: 715.580.8123 ATTENTION: GUY FOLSOM EMAIL: GFOLSOM@NORVADO.COM

# Dial or (800)242-8511

www.DiggersHotline.com

#### UTILITY CONTACT LIST:

DAHLBERG LIGHT & POWER CO EMAIL: SCOTT@DAHLBERGLIGHTANDPOWER.COM

**GENERAL NOTES:** 

- 1. NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
- 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.
- 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.
- PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLANS WITH THE ENGINEER.
- 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.
- CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 4-INCH TYPICAL DEPTH.
- TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED
- 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 AND CONCRETE 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 AND SEEDED.
- 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. THE BRIDGE APPROACHES SHALL BE PLACED IN TWO LIFTS. THE 4" OF ASPHALTIC SURFACE SHALL CONSIST OF A 2" LOWER LAYER AND A 2" UPPER LAYER.
- 17. APPLY TACK COAT AT A RATE OF 0.07 GAL/SY TO MILLED SURFACE AND 0.05 GA/SY BETWEEN LAYERS OF ASPHALTIC SURFACE.
- 18. ASPHALTIC SURFACE WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.
- 19. 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

SE

TC

TYP

VAR

VC

ΥD

T OR TN

SUPERELEVATION RATE

TRUCKS (PERCENT OF)

NORTH GRID COORDINATE

TOP OF CURB

TOWN

**TYPICAL** 

YARD

**VARIABLE** 

VERTICAL CURVE

		HYDROLOGIC SOIL GROUP										
	A			В С		D						
	SLOPI	SLOPE RANGE (PERCENT)										
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:			•			•			•		•	
ASPHALT .7095												
CONCRETE	CONCRETE .8095											
BRICK	BRICK .7080											
DRIVES, WALKS	DRIVES, WALKS .7585											
ROOFS	ROOFS .7595											
GRAVEL ROADS, SHO	GRAVEL ROADS, SHOULDERS .4060											

**EQUIVALENT SINGLE AXLE LOADS** 

**EXCAVATION BELOW SUBGRADE** 

**EXCAVATION** 

**FACE OF CURB** 

FACE TO FACE

FIELD ENTRANCE

HUNDREDWEIGHT

**EXISTING** 

FERTILIZE

FLOW LINE

HYDRANT

FIBER OPTIC

**ESALS** 

EXC

FRS

FC

FF

FE

FL

FO

CWT HYD

**EXIST** 

**FERT** 

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

PROJECT NO: 8383-00-70 HWY: LOC STR COUNTY: DOUGLAS FILE NAME

1/5/2024 11:29 AM

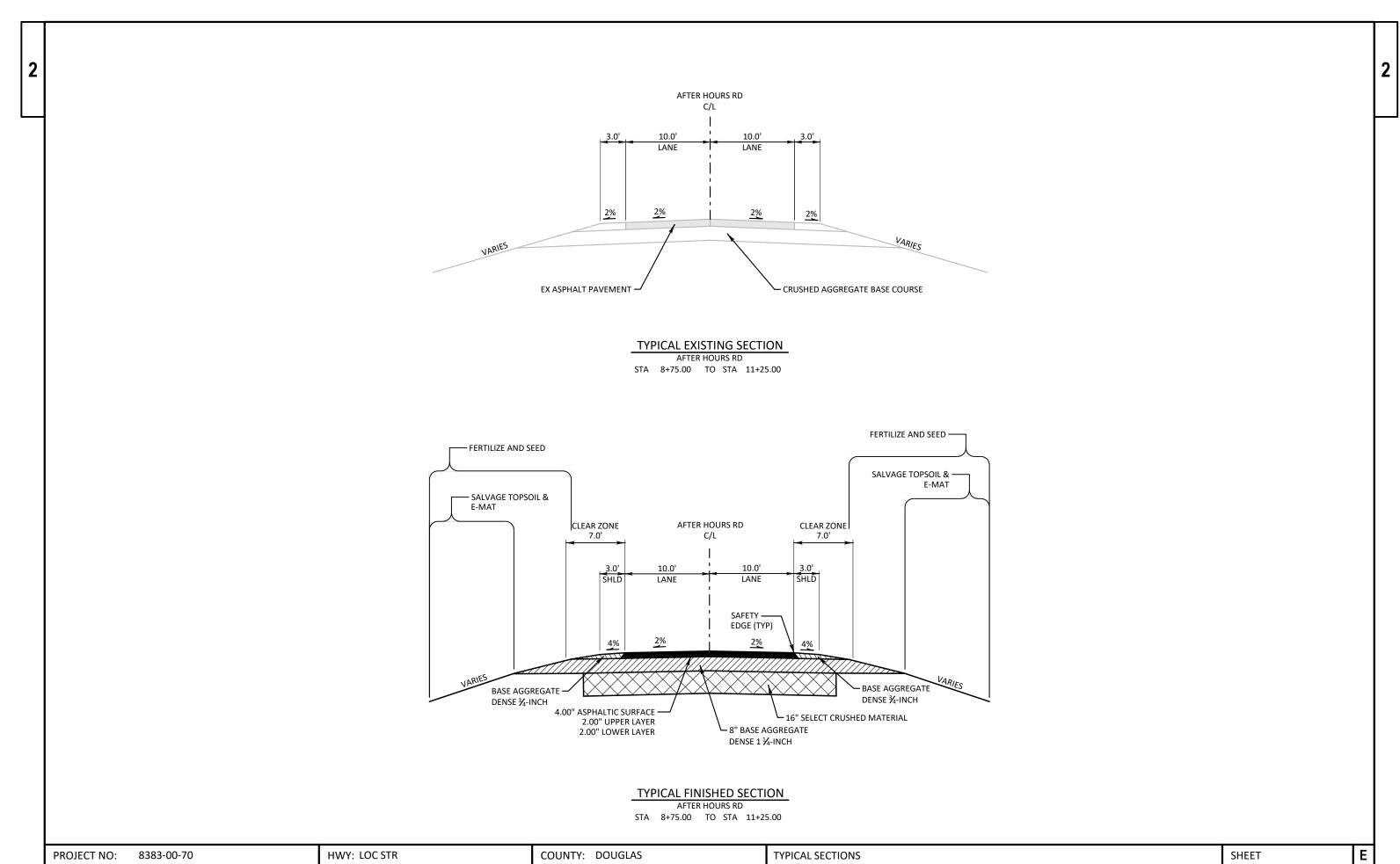
**GENERAL NOTES** 

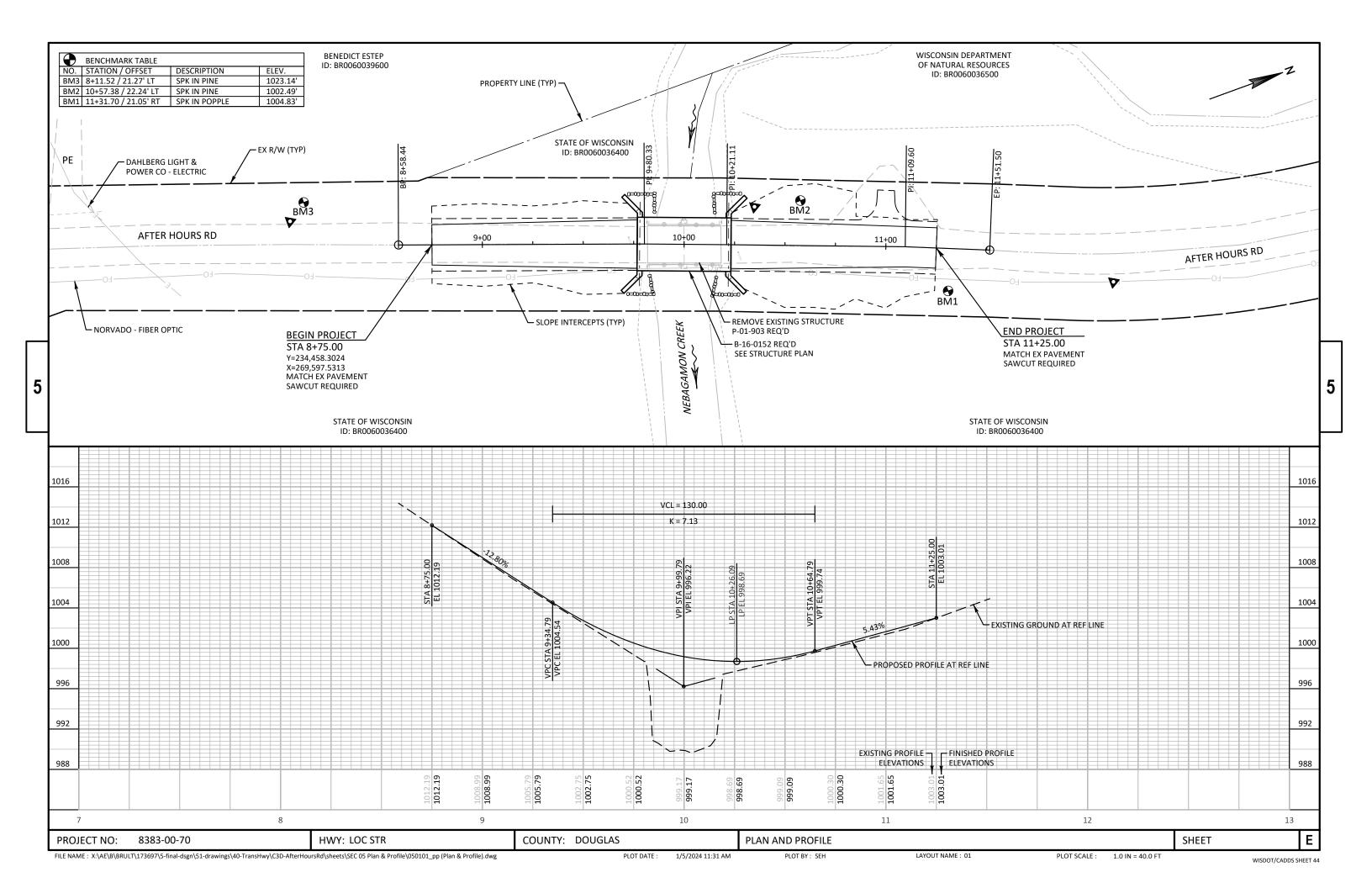
JASMINE MOLDOVAN

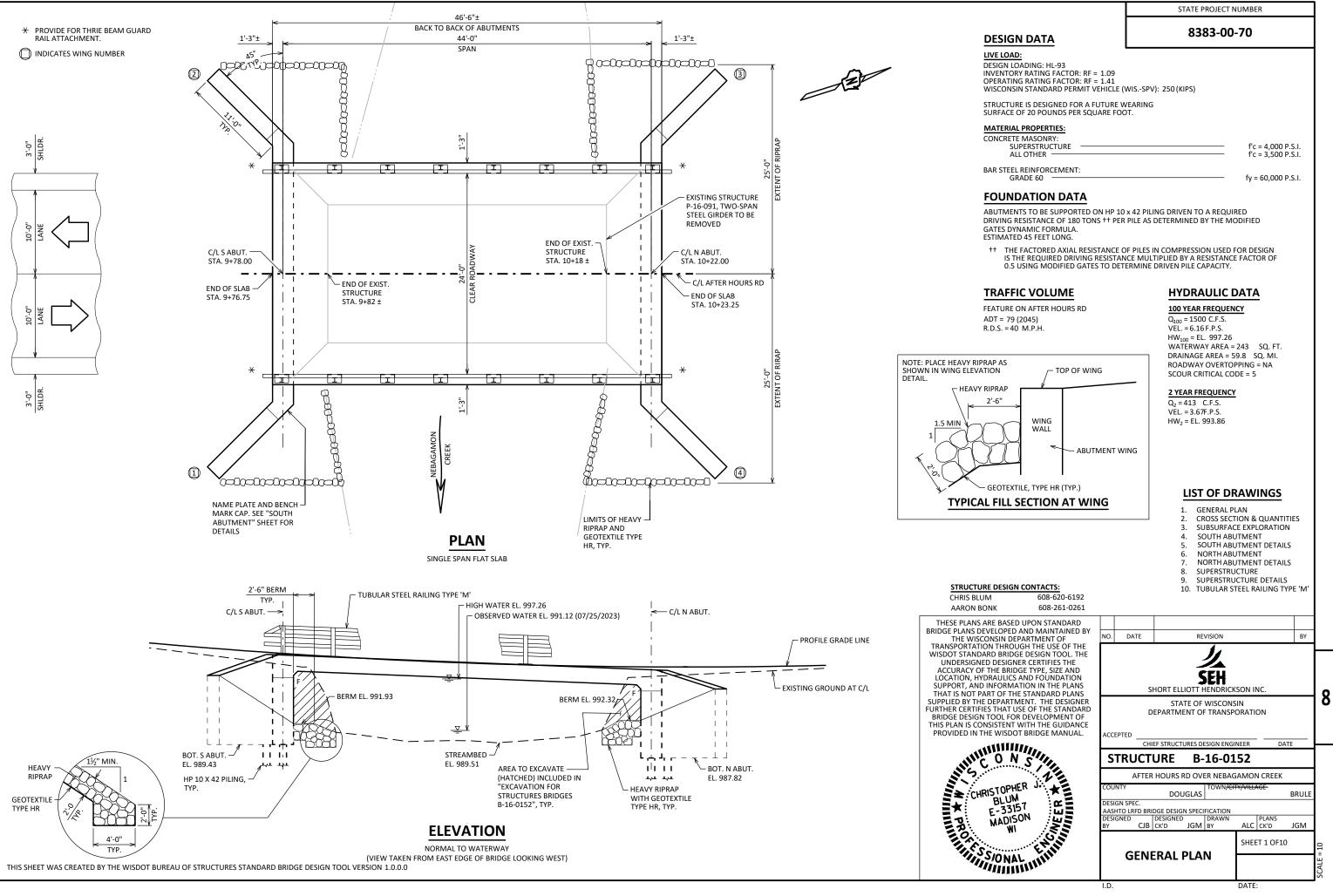
PLOT SCALE :

**SHEET** 

1 IN:100 FT







DATE:

**GENERAL NOTES** 

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-16-0152" SHALL BE THE EXISTING

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A.

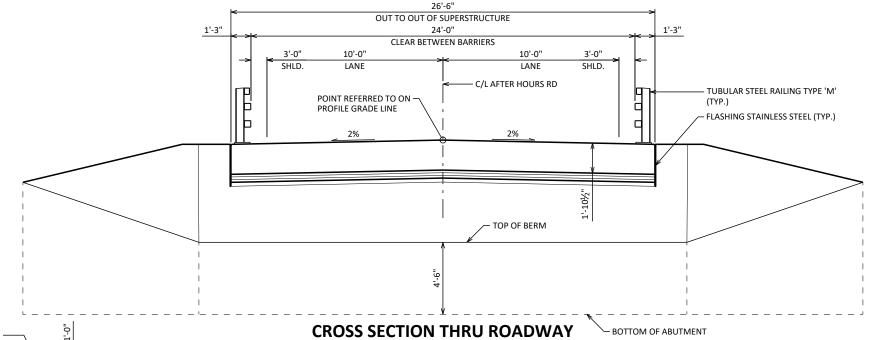
EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE

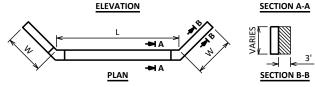
THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

AT ABUTMENTS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.



### TOP OF PAVEMENT **ELEVATION** SECTION A-A



#### ABUTMENT BACKFILL DIAGRAM

- = ABUTMENT BODY LENGTH AT BACKFACE (FT)
- = AVERAGE ABUTMENT FILL HEIGHT (FT) = WING 1 HEIGHT AT TIP (FT)

**TOTAL ESTIMATED QUANTITIES** 

BACKFILL STRUCTURE TYPE A

RAILING TUBULAR TYPE M

RIPRAP HEAVY

FILLER

GEOTEXTILE TYPE HR

FLASHING STAINLESS STEEL

CONCRETE MASONRY BRIDGES

PROTECTIVE SURFACE TREATMENT

PILING STEEL HP 10-INCH X 42 LB

PIPE UNDERDRAIN WRAPPED 6-INCH

GEOTEXTILE TYPE DF SCHEDULE A

- = WING 2 HEIGHT AT TIP (FT)
- = WING LENGTH (FT)
- = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)

**BID ITEMS** 

REMOVING STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS P-16-091

= (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3')(0.5)(H1+H2+H+H)(W)

**EXCAVATION FOR STRUCTURES BRIDGES B-16-0152** 

BAR STEEL REINFORCEMENT HS COATED STRUCTURES

BAR STEEL REINFORCEMENT HS STRUCTURES

RUBBERIZED MEMBRANE WATERPROOFING

203.0260

206.1001

210.1500

502.0100

502.3200

505.0400

505.0600

513.4061

516.0500

550.1100

606.0300

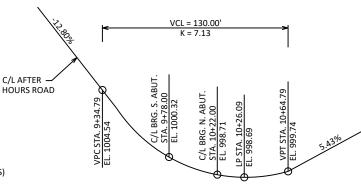
612.0406

645.0111

645.0120

SPV.0090.01

#### LOOKING UPSTATION (PILING NOT SHOWN FOR CLARITY) (NORTH ABUTMENT SHOWN. SOUTH ABUTMENT 2'-6" FROM TOP OF BERM TO BOTTOM OF ABUTMENT)



#### PROFILE GRADE LINE

ABUT.

272

41

2 180

1.870

5

73

48

TOTALS

544

171

211

4.360

22.720

98

10

146

96

1/2", 3/4"

SOUTH

272

41

2 180

1.870

73

48

ABUT.

UNIT

EACH

**EACH** 

TON

CY

SY

LB

LB

LF

SY

LF

CY

LF

SY

SY

LF

SIZE

**SUPER** 

89

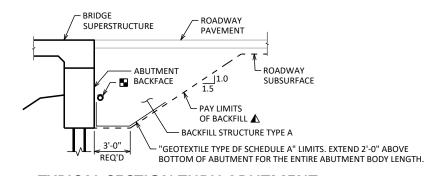
163

18.980

98

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#### **PROTECTIVE SURFACE** TREATMENT DETAILS



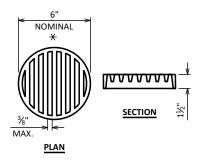
#### TYPICAL SECTION THRU ABUTMENT

PROTECTIVE SURFACE TREATMENT LIMITS

- ▲ BACKFILL PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE ATTACH RODENT SHIFLD AT ENDS OF PIPE LINDERDRAIN

#### **BENCH MARK**

NO.	STATION/OFFSET	DESCRIPTION	ELEV.
вмз	8+11.52 / 21.27' LT	SPK IN PINE	1023.14'
BM2	10+57.38 / 22.24' LT	SPK IN PINE	1002.49'
BM1	11+31.70 / 21.05' RT	SPK IN POPPLE	1004.83'

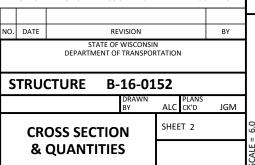


#### RODENT SHIELD DETAIL

★ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

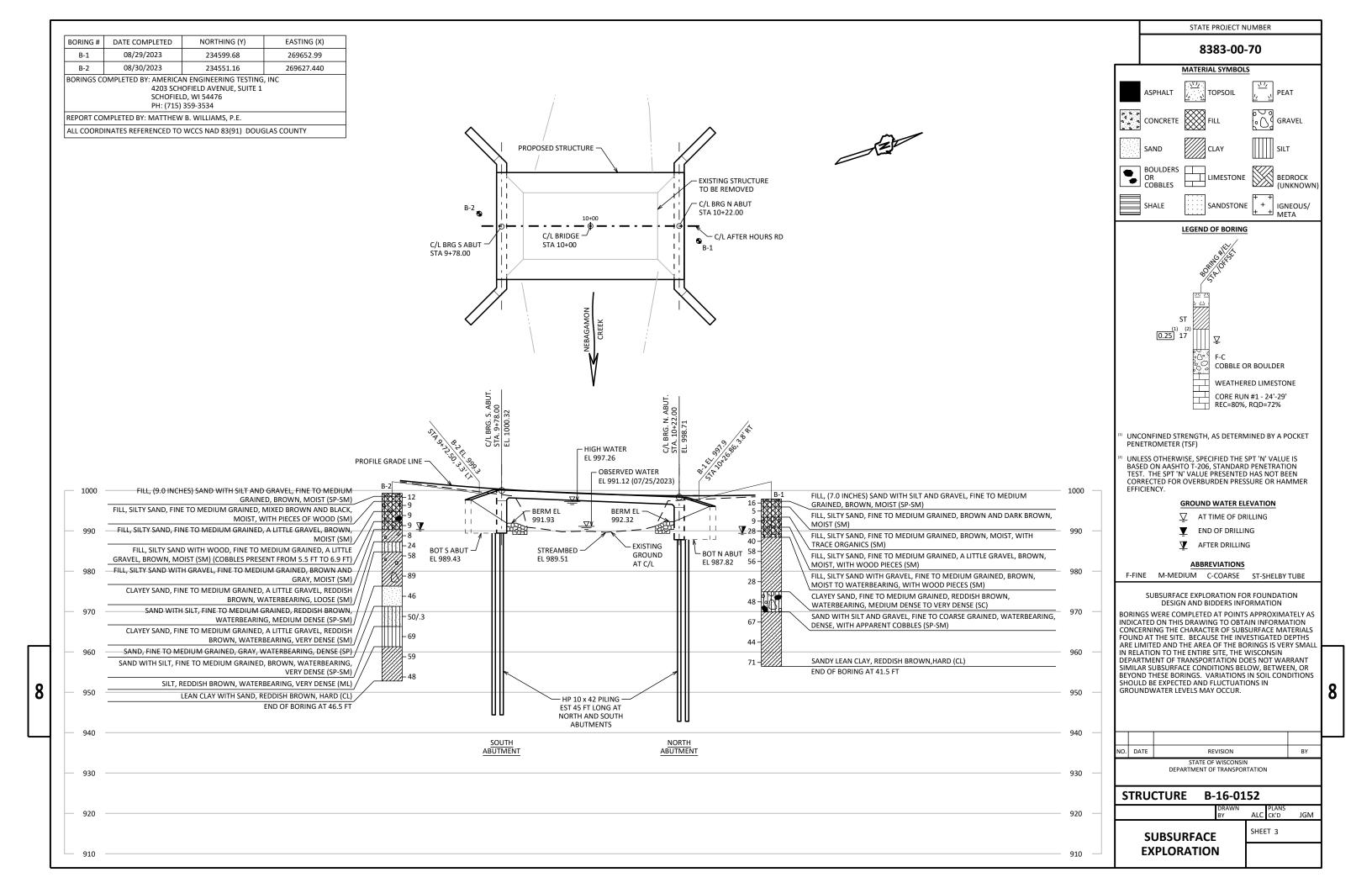
THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

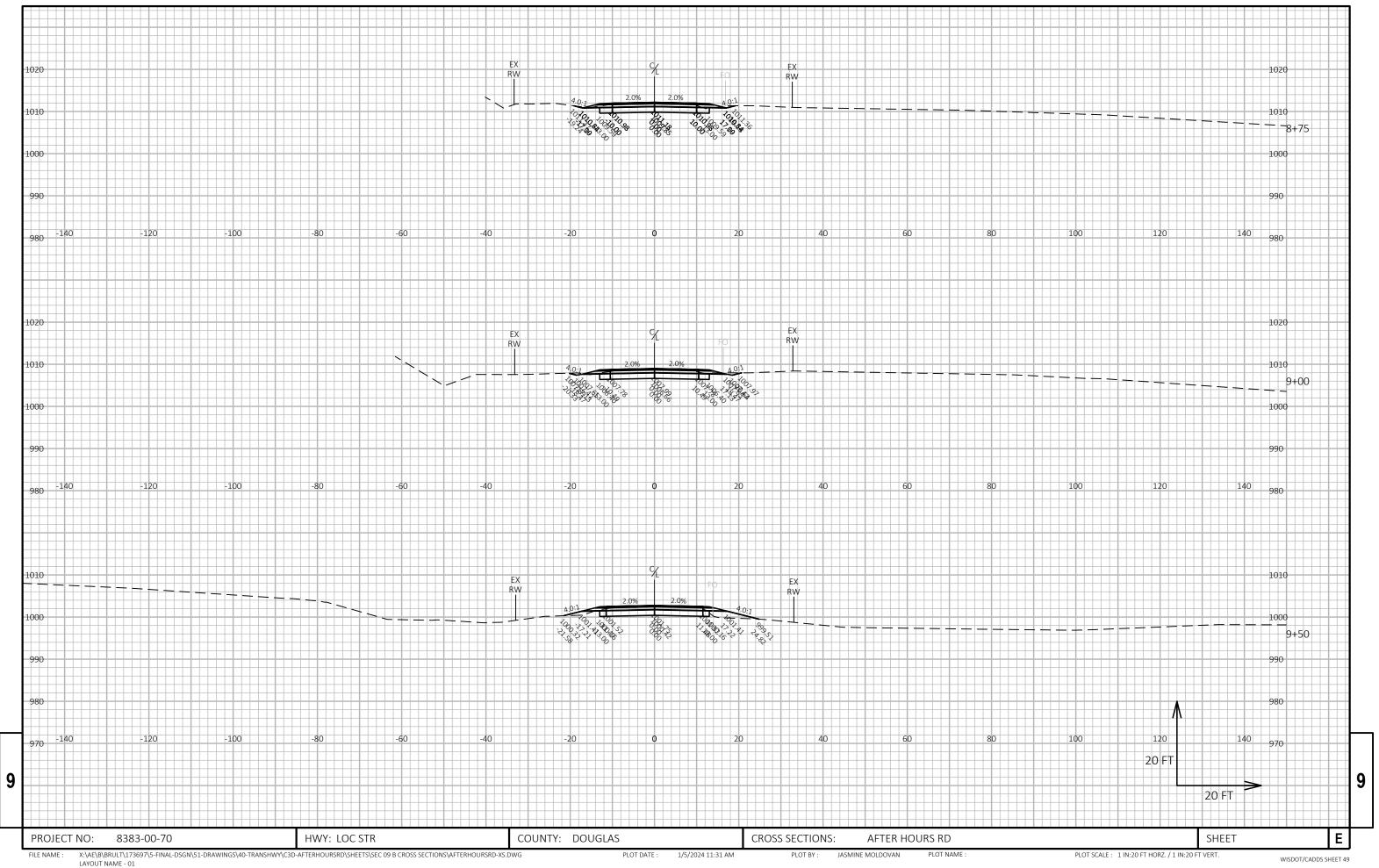
THE RODENT SHIFLD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COLIPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

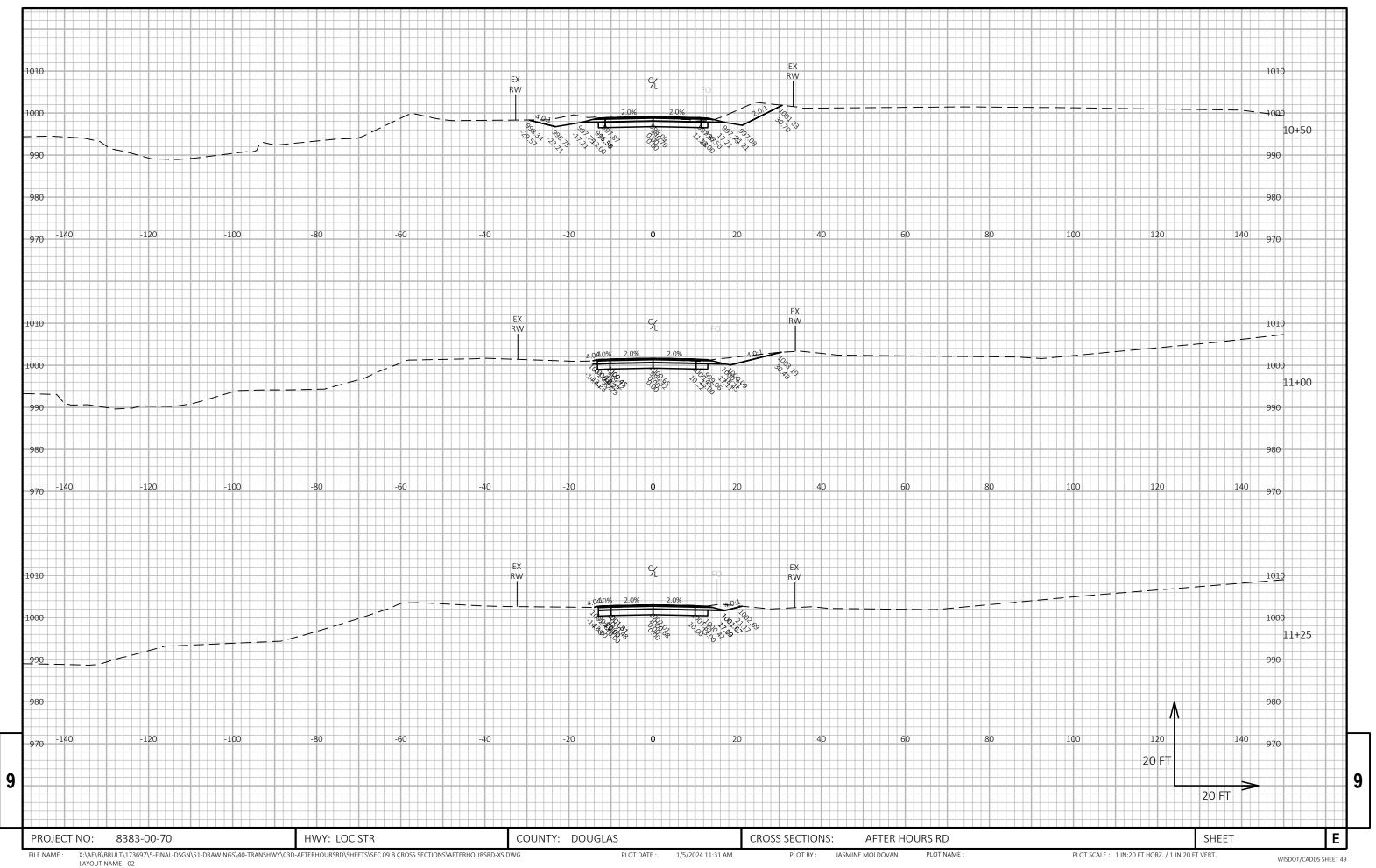


THIS SHEET WAS CREATED BY THE WISDOT BUREAU OF STRUCTURES STANDARD BRIDGE DESIGN TOOL VERSION 1.0.0.0

NON-BID ITEMS







LAYUUT NAME - UZ

#### **Public Involvement Meeting Comment Form**

Project ID 8383-00-00 T Brule, After Hours Road Nebagamon Creek Bridge B-16-0152 After Hours Road Douglas County

Please mail or email your comments to SEH Project Manager, Chris Blum, at 6808 Odana Road, Suite 200, Madison, WI 53719 or cblum@sehinc.com by February 9, 2024. 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)

The information in this document including names, addresses, phone numbers, e-mail addresses, and signatures is not confidential, and may be subject to disclosure upon request, pursuant to the requirements of the Wisconsin open records law, sections 19.31 - 19.39 of the Wisconsin Statutes.