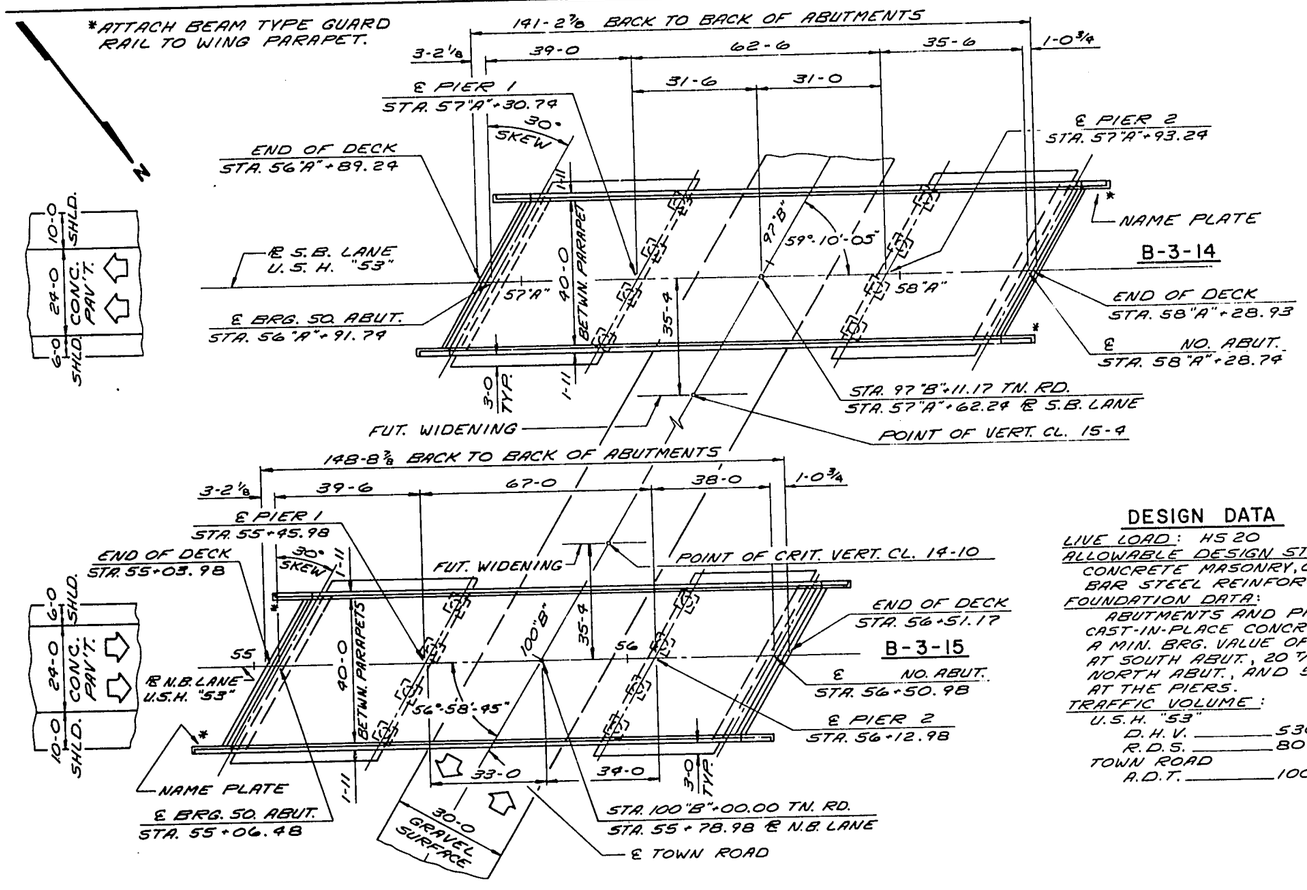
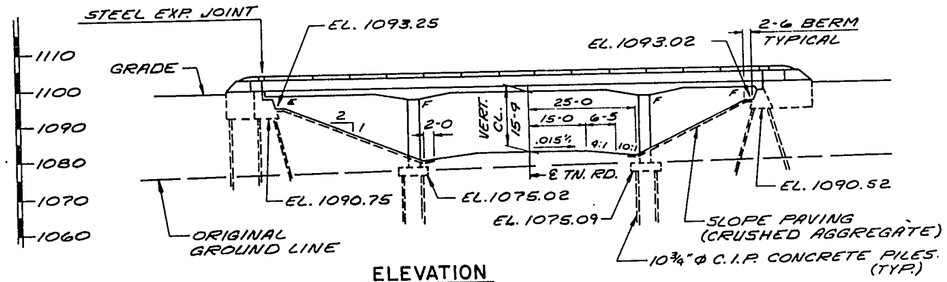
SELECT AS-BUILT DRAWINGS

PROJECT I.D.	SHEET NUMBER	TOTAL SHEETS
1196-6-71		
FEDERAL PROJECT DESIGNATION	28	296
EMP F08-4(36)		

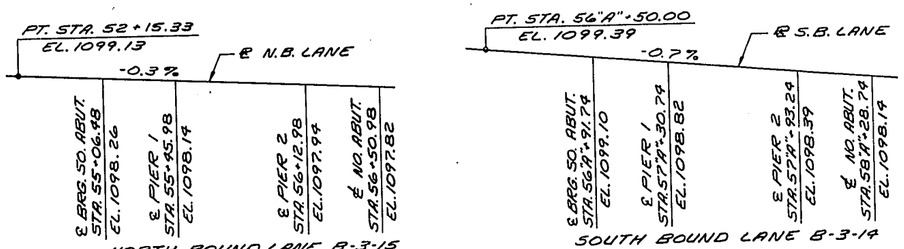
*ATTACH BEAM TYPE GUARD RAIL TO WING PARAPET.



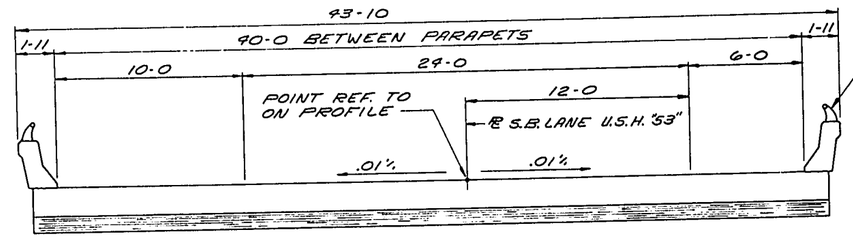


PLAN

ELEVATION
NORMAL TO ℄ TOWN RD.



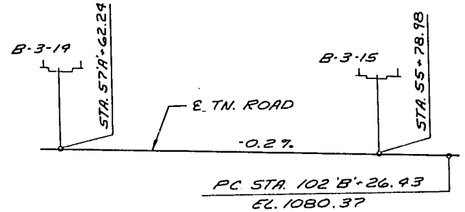
PROFILE GRADE U.S.H. "53"



CROSS SECTION THRU ROADWAY
3 SPAN HAUNCHED SLAB (LOOKING NORTH)

DESIGN DATA

LIVE LOAD: HS 20
ALLOWABLE DESIGN STRESSES:
CONCRETE MASONRY, GRADE "AA" ——— f_c : 1,900 P.S.I.
BAR STEEL REINFORCEMENT ——— f_s : 20,000 P.S.I.
FOUNDATION DATA:
ABUTMENTS AND PIERS TO BE SUPPORTED ON CAST-IN-PLACE CONCRETE PILING 10¾"Ø. DRIVE TO A MIN. BRG. VALUE OF 20 T/PILE, 55'-0 EST. LENGTH AT SOUTH ABUT., 20 T/PILE, 55'-0 EST. LENGTH AT NORTH ABUT., AND 55 T/PILE, 55'-0 EST. LENGTH AT THE PIERS.
TRAFFIC VOLUME:
U.S.H. "53"
D.H.V. ——— 5300 (1980)
R.D.S. ——— 80 M.P.H.
TOWN ROAD
A.D.T. ——— 100 (2000)



PROFILE GRADE TOWN ROAD

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.
THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING, CRUSHED AGGREGATE TO THE EXTENT SHOWN ON THIS SHEET AND IN THE ABUTMENT DETAILS.
THE FINISHED GRADED SECTION WAS USED AS THE UPPER LIMITS OF EXCAVATION FOR COMPUTATION OF EXCAVATION AT THE PIERS.
FOR UPPER LIMITS OF EXCAVATION AT THE ABUTMENTS SEE SHEETS NO. 3 & 4.
PILING AT ABUTMENTS SHALL BE PREBORED THRU FILL TO THE ORIGINAL GROUND LINE.

LIST OF DRAWINGS

TOTAL ESTIMATED QUANTITIES

BID ITEMS	UNIT	S. ABUT.	PIER 1	PIER 2	N. ABUT.	SUPER.	TOTAL
EXCAVATION FOR STRUCTURE	C.Y.	90	132	100	90	—	312
CONCRETE MASONRY	C.Y.	66	63	97	93	445	664
BAR STEEL REINFORCEMENT	LB.	3060	10,105	8885	2180	103,090	127,320
STRUCTURAL CARBON STEEL	LB.	—	—	—	—	3970	3970
STRUCTURAL LOW ALLOY STEEL	LB.	—	—	—	—	1100	1100
LUBRICATED BRONZE PLATES	LB.	—	—	—	—	77	77
BEARING PADS	S.F.	604	1411	765	573	7	7
CAST-IN-PLACE CONC. PILING DEL. & DR. 10¾"Ø	L.F.	~~880~~	~~1540~~	~~880~~	~~770~~	—	~~4070~~
PREBORING, CAST-IN-PLACE CONC. PILING 10¾"Ø	L.F.	252	—	—	295	—	997
TUBULAR RAILING, TYPE "J"	L.F.	—	—	—	—	302	302
SLOPE PAVING, CRUSHED AGGREGATE	S.Y.	247	—	—	229	—	476
NON-BID ITEMS							
⅛" ALUMINUM OR ZINC PLATE	S.F.	—	—	—	—	90	90
FILLER	SIZE	—	¼"	¼"	—	½"	¼" ⅛"
POLYVINYL CHLORIDE WATERSTOP	L.F.	—	—	—	96	—	96

3353
B-3-14
B-3-15
RELOCATED U.S.H. '53'
T-32-N
R-10-W
NEW AUBURN
N

LAYOUT

No.	Date	Revision	By

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-3-14

U.S.H. "53" OVER TOWN ROAD

County BARRON		City Village	
Design Spec A.A.S.H.O. 69		Load HS 20	Const Spec 1969
Designed By R.T.B.	Design Checked F.P.R.	Drawn By D.J.A.	Plans Checked J.H.G.

Approved W.A. Kleine — Chief Bridge Engineer — 11-17-71 — Date

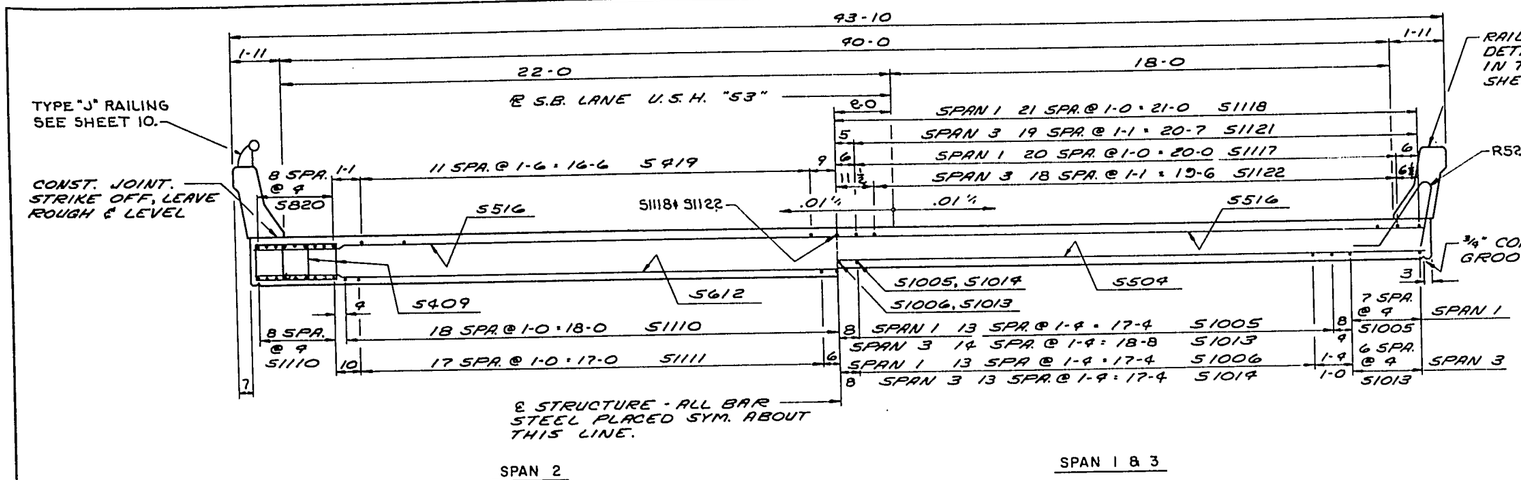
GENERAL PLAN

SHEET 1 OF 10

X46260

Form C B 12-69

PROJECT ID	SHEET NUMBER	TOTAL SHEETS
1196-6-71	33	296
FEDERAL PROJECT DESIGNATION: EMP FOB-4(36)		

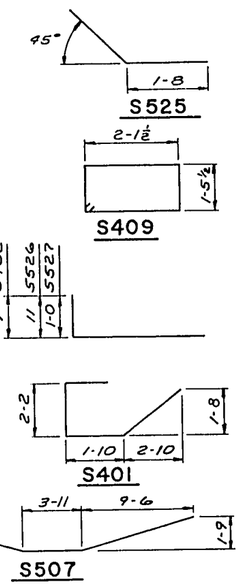


RAIL PARAPET - FOR DETAILS & BAR STEEL IN THIS AREA, SEE SHEET 9.

R520

3/4" CONT. DRIP GROOVE

CROSS SECTION THRU ROADWAY

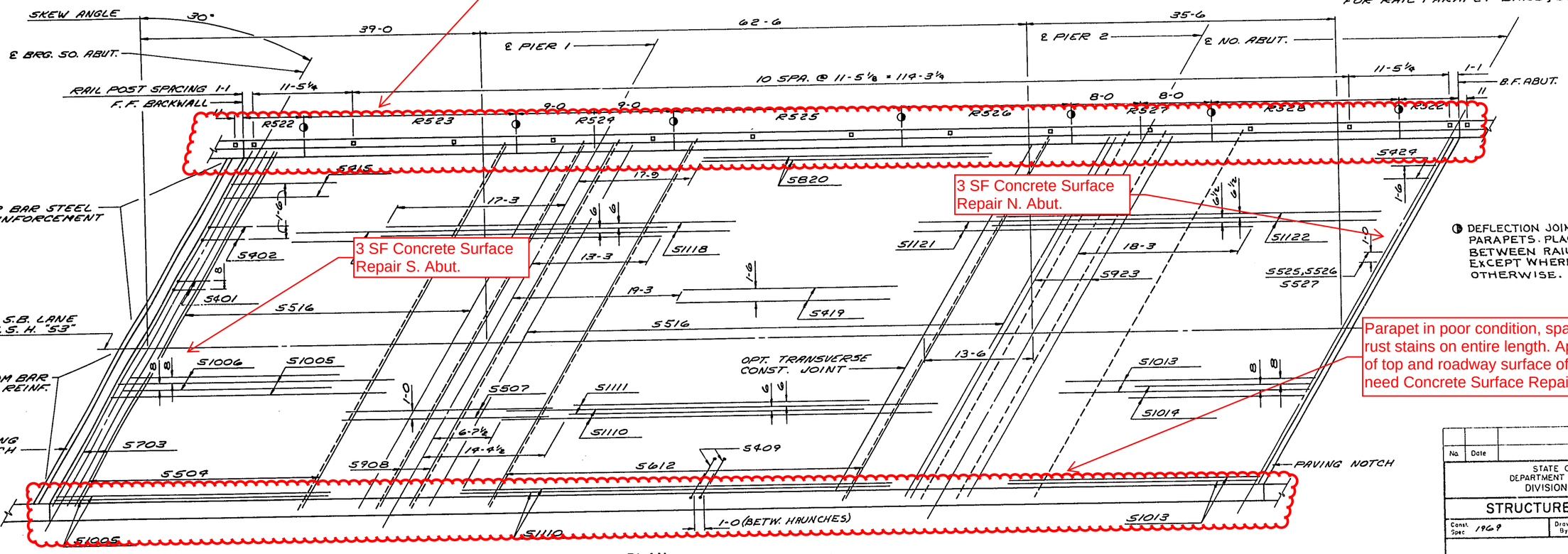


BILL OF BARS

BAR NO.	NO. REQ'D.	LENGTH	BENT	98,850# LOCATION
S401	64	8-7	X	SLAB @ SO. ABUT. HAUNCH
S402	29	6-8	X	" @ " " "
S703	3	98-10		" @ " " " -TRANS.
S504	67	98-10		" SPAN 1 & 3 - TRANS.
S1005	44	32-0		" " 1 - LONG.
S1006	27	23-9		" " 1 - "
S507	86	23-2	X	" @ PIER HAUNCH
S908	20	98-10		" @ " " - TRANS.
S409	180	7-8	X	" STIRRUP - SPAN 2
S1110	55	99-3		" SPAN 2 - LONG.
S1111	36	33-9		" " 2 - "
S612	45	98-10		" " 2 - TRANS.
S1013	43	28-6		" " 3 - LONG.
S1019	28	19-9		" " 3 - LONG.
S415	29	12-3		" " 1 - "
S516	99	98-10		" " 1, 2, & 3 - TRANS.
S1117	42	92-6		" OVER PIER 1 - LONG.
S1118	93	38-0		" " " 1 - "
S919	24	24-6		" SPAN 2 - LONG.
S820	18	27-6		" EDGE SPAN 2 - LONG.
S1121	40	38-6		" OVER PIER 2 - LONG
S1122	39	95-6		" " " 2 - "
S923	28	98-10		" @ PIER HAUNCH - TRANS.
S924	29	5-0		" SPAN 3 - LONG.
S525	93	4-1	X	" @ NO. ABUT. HAUNCH
S526	93	3-0	X	" @ " " "
S527	93	2-10	X	" @ " " "

FOR RAIL PARAPET BARS, SEE SHEET 9.

Parapet in decent condition, approx. 15% of top and roadway surface of parapet need Concrete Surface Repair = 30 SF



PLAN

RAIL POST AND DEFL. JOINT SPACING SAME FOR BOTH SIDES.

(L) DEFLECTION JOINTS IN RAIL PARAPETS. PLACE MIDWAY BETWEEN RAIL POSTS EXCEPT WHERE SHOWN OTHERWISE.

No.	Date	Revision	By

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-3-14

Const. Spec 1969	Drawn By D.J.A.	Plans Checked J.H.G.

SUPERSTRUCTURE

SHEET 6 OF 10

X46265

ASBESTOS REPORT

GEI Consultants
3159 Voyager Drive
Green Bay, WI 54311
920.455.8200 Phone

Bridge Asbestos Inspection Report

WisDOT Project ID: 1196-04-02
Structure Number: B-03-014
Structure Name: USH 53 SB over Carlson School Road
City/County: Town of Dovre, Barron County, Wisconsin
GEI project Number: 1901822
Date Inspected: April 3, 2019
Inspected by: Kyle C. Sandmire
Asbestos Inspector License Number: All- 217616
Consultant Company: GEI Consultants, Inc.

Summary:

An asbestos inspection of Structure B-03-014 was conducted on April 3, 2019 by Kyle Sandmire, Asbestos Inspector License No. AII-217616. Asbestos-containing material (ACM) **IS NOT** present on this structure.

The inspection to identify and collect samples of potential asbestos-containing material (ACM) was completed following WisDOT standard sampling procedures for bridge inspections found in FDM 21-35-45.

No Asbestos-containing material has been found in Structure B-03-014. Standard Special Provision (STSP) 107-127 shall be included in the plans. The contractor will be responsible for completion of the Notification of Demolition and/or Renovation (DNR form 4500-113) if required. A copy of the inspection report is available from the region office.

Sample #	Sample Description	Sample Location	Method and Analytical Results	Category I or II non-friable or No ACM	Total Amount of Material on Structure
B-03-014-1A	Black/gray caulk	Bridge deck joints	PLM, non-detect	No ACM	N/A
B-03-014-1B	Black/gray caulk	Bridge deck joints	PLM, non-detect	No ACM	N/A
B-03-014-1C	Black/gray caulk	Bridge deck joints	PLM, non-detect	No ACM	N/A
B-03-014-2A	Gray caulk	Bridge deck wall joints and abutment joints	PLM, non-detect	No ACM	N/A
B-03-014-2B	Gray caulk	Bridge deck wall joints and abutment joints	PLM, non-detect	No ACM	N/A
B-03-014-2C	Gray caulk	Bridge deck wall joints and abutment joints	PLM, non-detect	No ACM	N/A

B-03-014-3A	Silver paint	Steel plates between bridge spans and abutments	PLM, non-detect	No ACM	N/A
B-03-014-3B	Silver paint	Steel plates between bridge spans and abutments	PLM, non-detect	No ACM	N/A
B-03-014-3C	Silver paint	Steel plates between bridge spans and abutments	PLM, non-detect	No ACM	N/A
B-03-014-4A	Light blue spray foam insulation	Between bridge deck and abutment joints	PLM, non-detect	No ACM	N/A
B-03-014-4B	Light blue spray foam insulation	Between bridge deck and abutment joints	PLM, non-detect	No ACM	N/A
B-03-014-4C	Light blue spray foam insulation	Between bridge deck and abutment joints	PLM, non-detect	No ACM	N/A
B-03-014-5A	Black tar	Southern bridge deck	PLM, non-detect	No ACM	N/A
B-03-014-5B	Black tar	Southern bridge deck	PLM, non-detect	No ACM	N/A
B-03-014-5C	Black tar	Southern bridge deck	PLM, non-detect	No ACM	N/A

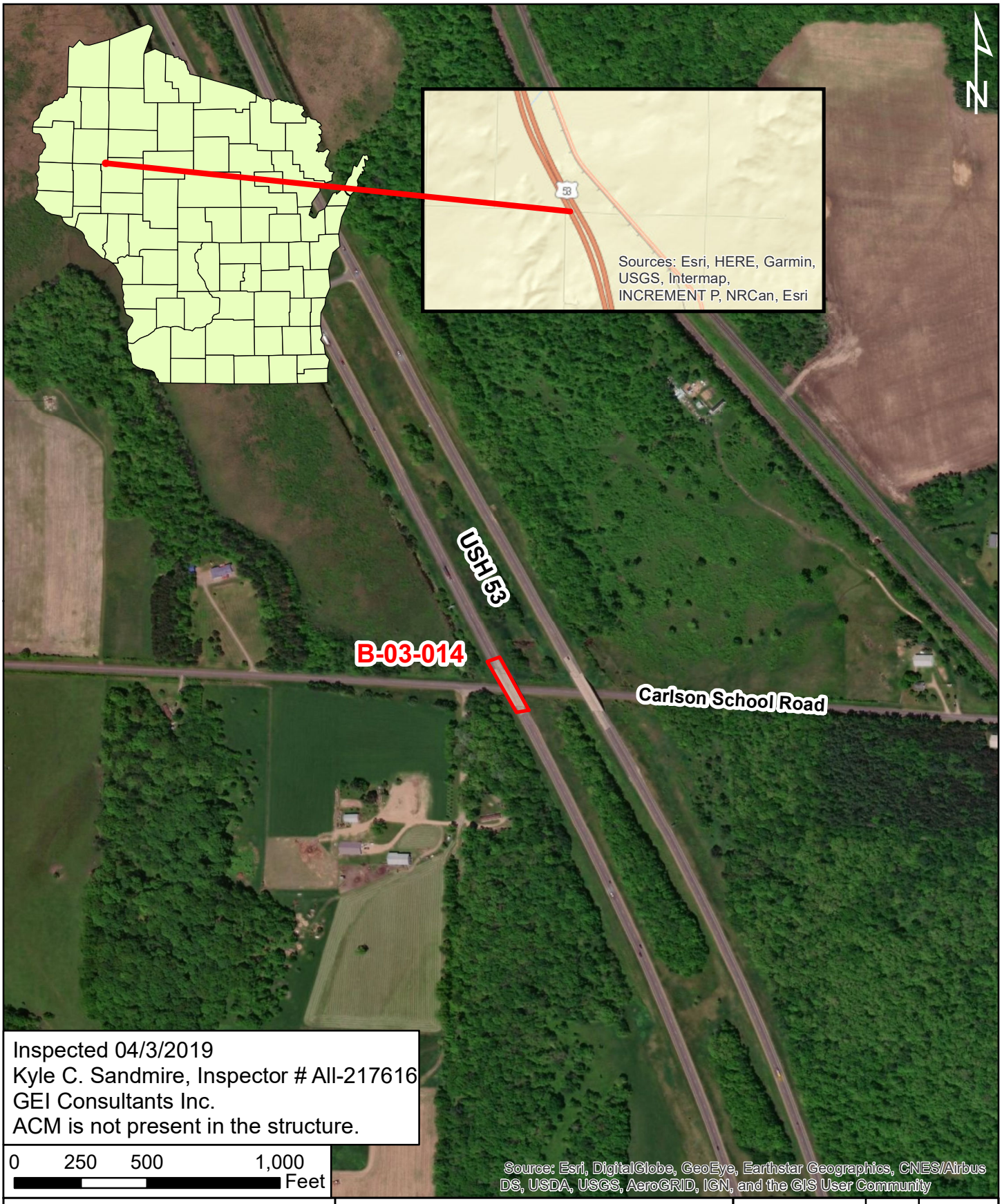
If you have any questions, please contact us at (920) 455-8200.

GEI CONSULTANTS, INC.

Kyle C. Sandmire
Environmental Scientist

Paul M. Garvey
Senior Scientist

Attachments:
B-03-014 Report Table
B-03-014 Map
B-03-014 Photo Log
B-03-014 Bulk Asbestos Sample Analysis Summary
B-03-014 Bulk Asbestos Sample Chain of Custody



GEI Consultants
3159 Voyager Drive
Green Bay, WI 54311
920.455.8200

WisDOT Project 1196-04-02
Structure B-03-014
USH 53 (SB)
over Carlson School Road
Barron County

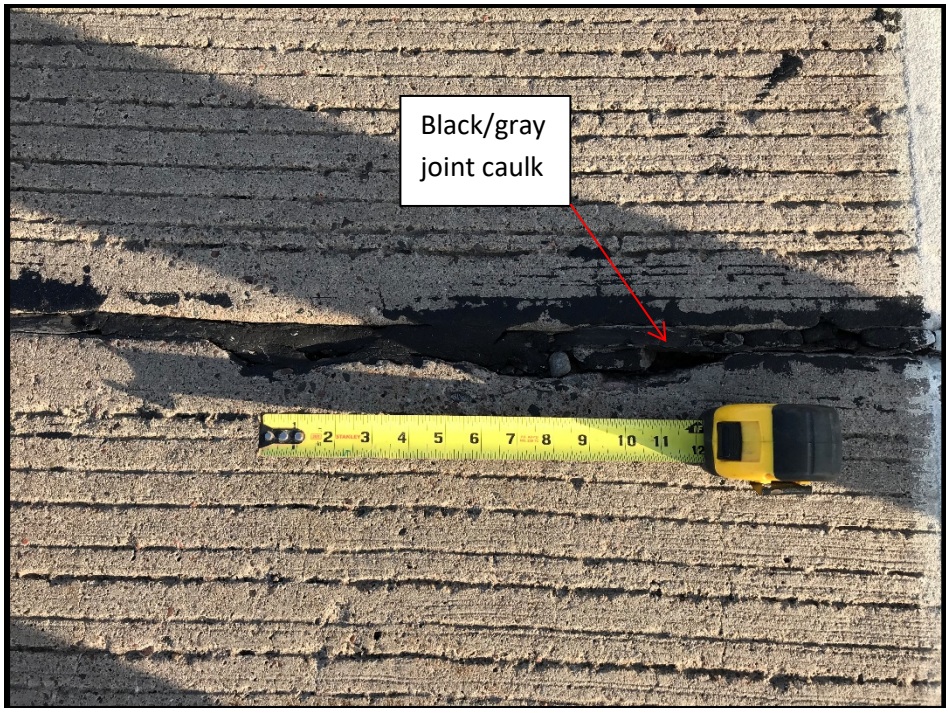
DESIGNED BY	KCS	4/10/2019
DRAWN BY	KCS	4/10/2019
APPROVED BY	PMG	4/10/2019
SCALE	1 inch = 500 feet	
FIGURE NO.	B-03-014	

PHOTOGRAPHIC LOG

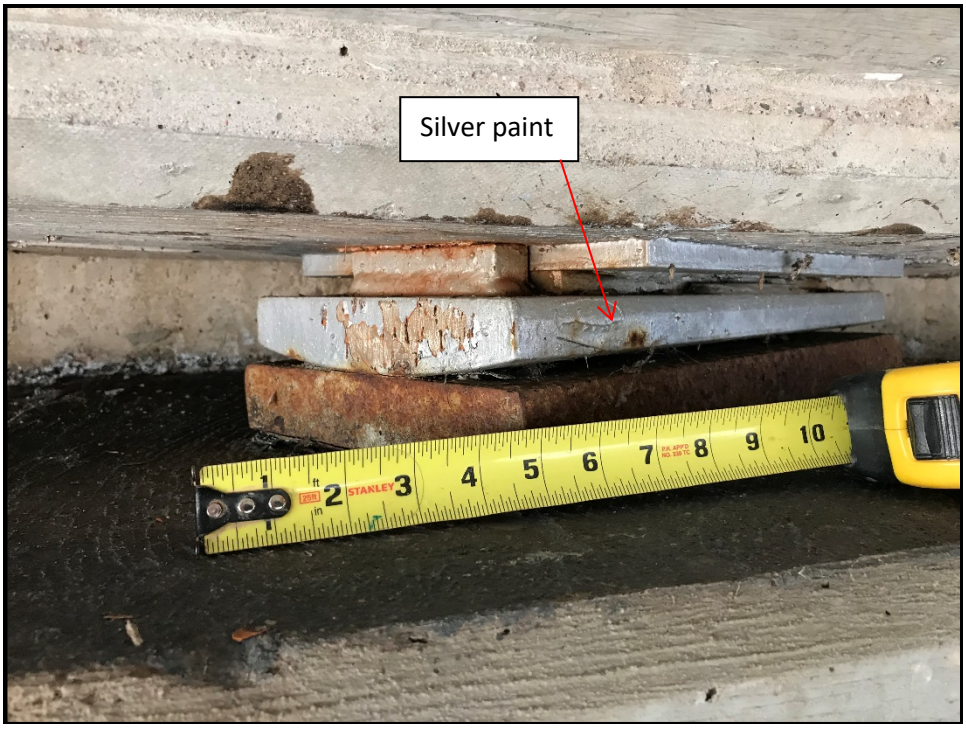
PHOTOGRAPH NO: 1	
DIRECTION: S	
DESCRIPTION: Looking south at B-03-014.	

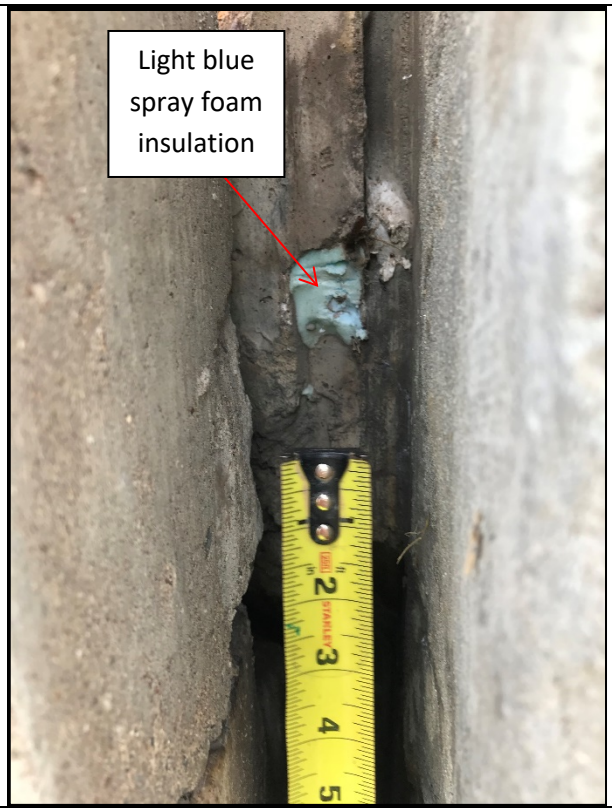
PHOTOGRAPH NO: 2	
DIRECTION: E	
DESCRIPTION: Looking east at B-03-014.	

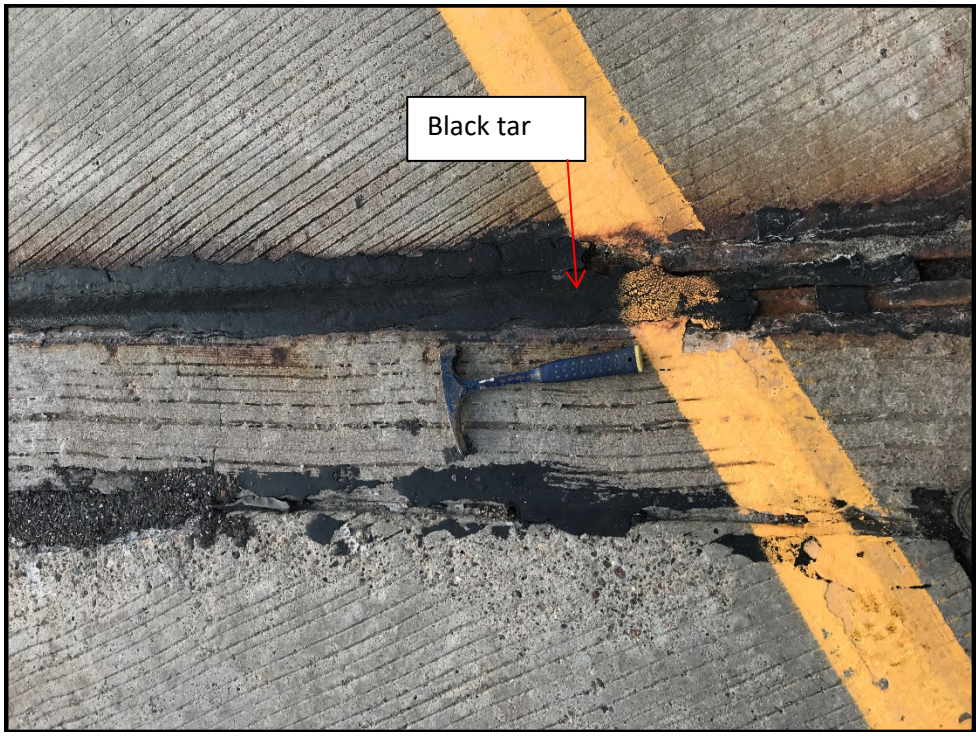
PHOTOGRAPH NO: 3	
DIRECTION: SW	
DESCRIPTION: View of the bridge identification plate.	

PHOTOGRAPH NO: 4	
DIRECTION: Down	
DESCRIPTION: View of the black/gray joint caulk on the bridge deck. The black/gray joint caulk is not ACM.	

PHOTOGRAPH NO: 5 **DIRECTION**: SE **DESCRIPTION:** View of the gray caulk on the bridge wall joints and abutment joints. The gray caulk is not ACM.	

PHOTOGRAPH NO: 6 **DIRECTION**: NE **DESCRIPTION:** View of the silver paint on the steel plates between the bridge span and abutment. The silver paint is not ACM.	

PHOTOGRAPH NO: 7 **DIRECTION**: E **DESCRIPTION:** View of the light blue spray foam insulation between the bridge deck and abutment joints. The light blue spray foam insulation is not ACM.	

PHOTOGRAPH NO: 8 **DIRECTION**: Down **DESCRIPTION:** View of the black tar on the southern bridge deck joints. The black tar is not ACM.	

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 19-04-02064

Client: GEI Consultants Inc
3159 Voyager Dr.
Green Bay, WI 54311

Received Date: 04/12/2019
Analyzed Date: 04/16/2019
Reported Date: 04/17/2019

Project/Test Address: B-03-014; USH 53 SB Over Carlson School Road; Town of Dovre, WI

Client Number:
200598

Fax Number:

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
19-04-02064-001	B-3-14-1A	--	Gray Rubbery; Homogeneous	NAD	100% Non-Fibrous
19-04-02064-002	B-3-14-1B	--	Gray Rubbery; Homogeneous	NAD	100% Non-Fibrous
19-04-02064-003	B-3-14-1C	--	Gray Rubbery; Homogeneous	NAD	100% Non-Fibrous
19-04-02064-004	B-3-14-2A	--	Gray Rubbery Adhesive; Homogeneous	NAD	100% Non-Fibrous
19-04-02064-005	B-3-14-2B	--	Gray Rubbery Adhesive; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 200598 Report Number: 19-04-02064

Project/Test Address: B-03-014; USH 53 SB Over Carlson School Road; Town of Dovre, WI

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
19-04-02064-006	B-3-14-2C	--	Gray Rubbery Adhesive; Homogeneous	NAD	100% Non-Fibrous
19-04-02064-007	B-3-14-3A	--	Silver Paint; Homogeneous	NAD	100% Non-Fibrous
19-04-02064-008	B-3-14-3B	--	Silver Paint; Homogeneous	NAD	100% Non-Fibrous
19-04-02064-009	B-3-14-3C	--	Silver Paint; Homogeneous	NAD	100% Non-Fibrous
19-04-02064-010	B-3-14-4A	--	Light Blue Foam; Homogeneous	NAD	100% Non-Fibrous
19-04-02064-011	B-3-14-4B	--	Light Blue Foam; Homogeneous	NAD	100% Non-Fibrous
19-04-02064-012	B-3-14-4C	--	Light Blue Foam; Homogeneous	NAD	100% Non-Fibrous
19-04-02064-013	B-3-14-5A	--	Black Rubbery Tar like; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 200598 Report Number: 19-04-02064

Project/Test Address: B-03-014; USH 53 SB Over Carlson School Road; Town of Dovre, WI

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
19-04-02064-014	B-3-14-5B	--	Black Rubbery Tar like; Homogeneous	NAD	100% Non-Fibrous
19-04-02064-015	B-3-14-5C	--	Black Rubbery Tar like; Homogeneous	NAD	100% Non-Fibrous

QC Sample: 30-M22009-3

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Sami Hosn

Reviewed By Authorized Signatory: Melissa Kanode

Missy Kanode
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0 VELAP 460172. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

EHS Laboratories™
Environmental Hazards Services, LLC

Asbestos Chain-of-Custody Form

SHIP TO: 7469 Whitepine Rd. Richmond, VA 23237
Phone: (800) 347-4010 FAX: (804) 275-4907
ONLINE CLIENT PORTAL AVAILABLE FOR ANALYSIS RESULTS AT:
www.leadlab.com

19-04-02064

Due Date:
04/17/2019 S
(Wednesday)
AE

#5 PLM

Company Name: GEI Consultants, Inc. Account Number: 1901822

Address: 3159 Voyager Drive City/State/Zip: Green Bay, WI 54311

Phone #: 920-241-2725 Email: Ksandmire@geiconsultants.com Fax: 920-455-8225

Project Name / Testing Address: B-03-014, USH 53 SB over Carlson School Road City/State (Required): Town of Dover, WI

Collected by: Kyle C. Sandmire, AII-217616 P.O. # 1901822

TURN AROUND TIMES: IF NO TAT IS SPECIFIED, SAMPLE(S) WILL BE PROCESSED AND CHARGED AS 3 - DAY TAT.

1 Day		2 Day		3 Day	X	* Same Day – Must Call Ahead		* Weekend – Must Call Ahead

No.	Client Sample ID	HA Area #	Collection Date	Collection Time	PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	TEM - Bulk	* positive stop on all "A" thru "C" series. Comments
1	B-3-14-1A thru 1C		4/3/2019	6:30 AM / PM	X					Expansion caulk
2	B-3-14-2A thru 2C			6:30 AM / PM	X					Gray expansion caulk
3	B-3-14-3A thru 3C			6:30 AM / PM	X					Silver Paint
4	B-3-14-4A thru 4C			6:30 AM / PM	X					Lt blue spray foam
5	B-3-14-5A thru 5C			6:30 AM / PM	X					Black tar
6				AM / PM						
7				AM / PM						
8				AM / PM						
9				AM / PM						
10				AM / PM						

Released by: Kyle C. Sandmire Signature: Date/Time: 4/9/2019 8:00
Received by: Signature: Date/Time: 4/12/19 2:43 pm

BRIDGE INSPECTION REPORT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Inspection Report for B-03-014

USH 53 SB over CARLSON SCHOOL DRIVE

Jun 08,2017

Type	Prior	Frequency (mos)	Performed
Routine	06-25-15	24	X
Interim	02-25-13	0	
SIA Review	06-13-13	48	X

Latitude	45°13'17.87"N	Owner	STATE HIGHWAY DEPT
Longitude	91°34'56.90"W	Maintainer	STATE HIGHWAY DEPT

Time Log

Hours	Minutes
1	15

Team members

wjk

	Name	Number	Signature	Date
Inspector	Kovaleski, William J	8007	William J Kovaleski E-signed by Bill(dotwjk)	09-06-17

BRIDGE INSPECTION REPORT
Wisconsin Department of Transportation
DT2007 2003 s.84.17 Wis. Stats.

Identification & Location

Feature On: USH 53 SB	Section Town Range: S26 T32N R10W	Structure Number: **B-03-014**
Feature Under: CARLSON SCHOOL DRIVE	County: BARRON	
Location: 7.1M S JCT CTH I TO E	Municipality: DOVRE	Structure Name:

Geometry

measurements in feet, except where noted

Approach Roadway Width: 40	Bridge Roadway Width: 40.0	Total Length: 139.7
Approach Pavement Width: 24	Deck Width: 43.8	Deck Area (sq ft): 6118

Traffic

	Lanes	ADT	ADT year	Traffic Pattern
On	2	5550	2014	ONE WAY TRAFFIC
Under	2	3430	1988	TWO WAY TRAFFIC

Capacity

Load Rating

Inventory rating: HS16	Overburden depth (in): 2.0	Last rating date:	Controlling: SLAB Negative Moment
Operating rating: HS27	Deck surface material: LOW SLUMP CONCRETE	Re-rate for capacity (Y/N):	Control location: 0.3 SPAN 1
Posting:	Re-rate notes:		

Hydraulic

Classification

Scour Critical Code(113): (N) NO WATERWAY	Q100 (ft3/sec): 0	
High water elevation (ft): 0.0	Velocity (ft/sec): 0.0	Sufficiency #: 91.3

Span(s)

Span #	Material	Configuration	Depth (in)	Length (ft)	Main
1	CONT CONCRETE	HAUNCHED SLAB		39.0	
2	CONT CONCRETE	HAUNCHED SLAB		62.5	Y
3	CONT CONCRETE	HAUNCHED SLAB		35.5	

Expansion joint(s)

Temperature: File: | New:

Clearance

Item	File Measurement (ft)	File Date	New Measurement (ft)
Highway Min Vertical Under Cardinal	14.8	25-Jun-2015	
Highway Min Vertical Under Non-Cardinal			
Horizontal Under Cardinal	51.5		
Horizontal Under Non-Cardinal			
Highway Min Vertical On Cardinal			
Horizontal On Cardinal			

Special Components

Component	Year	Work Performed	Note
DECK - IOWA MIX	1989	OVERLAY - CONCRETE	

Construction History

Year	Work Performed	FOS id
1989	OVERLAY - CONCRETE	0003-84-01
1972	NEW STRUCTURE	1196-06-71

Maintenance Items History

Item	Recommended by	Status	Status change	Year completed
Drainage - Repair/Construct Drainage Flumes	Bjorklund, Allan M (8003)	COMPLETE	01/17/13	
Monitor condition of NE drain repaired with asphalt.				
Deck - Patching	Harrington, Daniel J (8004)	COMPLETE	01/17/13	
approx 12 sq ft deck patch				
Deck - Patching	Harrington, Daniel J (8004)	COMPLETE	01/17/13	
approx 20 sf of deck patching various spalls.				

Maintenance Items

Item	Priority	Recommended by	Status	Status change
Deck - Surface Repair Spalls	HIGH	Kurtz, William G (8008)	IDENTIFIED	07/02/15
Repair SPL in Wearing Surface (50SF).				
Substructure - Repair Abutment / Wings	HIGH	Kurtz, William G (8008)	IDENTIFIED	07/02/15
Fill void behind NE WWALL (6SF). Repair SPL on ABUTs (2LF).				
Misc - Tighten Bolts and Nuts	MEDIUM	Kurtz, William G (8008)	IDENTIFIED	07/02/15
Tighten all bolts on decorative rail.				
Deck - Patching	MEDIUM	Kurtz, William G (8008)	IDENTIFIED	07/02/15
Repair SPL in Reinforced Concrete Deck (8SF).				
Approach - Patch Concrete	MEDIUM	Kurtz, William G (8008)	IDENTIFIED	07/02/15
Repair SPLs N APPR (1EA).				
Misc - Cut Brush	LOW	Kurtz, William G (8008)	IDENTIFIED	07/02/15
Remove brush.				

Elements

Chk	Element	Defect	Description	UOM	Total	Quantity in Condition State 1	2	3	4
X	**38**		**Reinforced Concrete Slab**	SF	6,119	5,984	133	2	0
			Delamination - Spall - Patched Area	SF		0	4	2	0
		1080	**E & W face -** CS3 **spall w rust staining adjacent to Pier 1 - leaking under parapet. East face - 6in impact edge spalls over EB lane.**						
			Cracking (RC)	SF		0	129	0	0
		1130	**Faces - few fine to hrline vert cracks at parapet joints and Piers. Underside:** SP1 **- 2 Fine/hrline longitudinal CL cracks (meet at midspan to 1 crack and extends to** SP2 **btwn C2). S**P2 **- fine/hrline longitudinal CL crack.** SP3 **- fine/hrline longitudinal CL crack extends half span.**						
	8514		Concrete Overlay	SF	6,119	0	6,119	0	0
			Debonding/Spall/Patched Area/Pothole	SF		0	479	0	0
		3210	**Areas of noted delam/debond - 429sf. Select areas around joints of spalls filled w asphalt.**						
			Crack (Wearing Surface)	SF		0	5,640	0	0
		3220	**Fine to hrline map cracking throughout - approx. 86%.**						

X	**205**		**Reinforced Concrete Column**	EA	8	7	1	0	0
			Piers consist of columns with deck acting as cap.						
		1130	Cracking (RC)	EA		0	1	0	0
			Col 2 of Pier 2 - fine horiz cracks at top of north face.						
X	**215**		**Reinforced Concrete Abutment**	LF	98	79	19	0	0
		1080	Delamination - Spall - Patched Area	LF		0	9	0	0
			North - small spalls at both ADW ends - note potential material loss from east ADW. South - multiple small 3in popouts along face (rebar cover)						
		1130	Cracking (RC)	LF		0	10	0	0
			South - fine to hrline vert cracks at Brg 2, 3, 4, 5, and Bays 2, 3, & 4.						
X	**300**		**Strip Seal Expansion Joint**	LF	49	0	49	0	0
			South **approach.**						
		2310	Leakage, Seal Adhesion, Damage,Cracking	LF		0	49	0	0
			Potential leaking not fully visible - loose chunks of concrete behind bearings.						
X	**311**		**Moveable Bearing**	EA	6	0	6	0	0
			South abutment. **Painted** 01.						
		1000	Corrosion	EA		0	6	0	0
			Lt to med rust on btm plate.						
X	**331**		**Reinforced Concrete Bridge Rail**	LF	317	113	203	1	0
		1080	Delamination - Spall - Patched Area	LF		0	2	0	0
			Small spall east rail.						
		1130	Cracking (RC)	LF		0	201	1	0
			East rail CS3 vert crack on outside face w rust staining (over P2). Multiple hrline to fine vert cracks w some fine surface map cracking - west = 41lf, east = 160lf						
X	**8400**		**Integral Wingwall**	EA	4	2	2	0	0
		8903	Wall Deterioration	EA		0	2	0	0
			Few fine surface cracks in NE **and SE.**						

BRIDGE INSPECTION REPORT
Wisconsin Department of Transportation
DT2007 2003 s.84.17 Wis. Stats.

Structure No.:**B-03-014**

Assessments

Chk	Element	Defect	Description	UOM	Total	Quantity in Condition State 1	2	3	4
X	9001		**Drainage - Approach** North C&G inlets. South shldr grvl.	EA	2	2	0	0	0
X	9030		**Signs - Object Markers**	EA	2	2	0	0	0
X	9043		**Slope Protection- Crushed Aggregate with Bit.** Rocks tightly adhered. Vegetation and bleaching at edges.	EA	2	2	0	0	0
X	9322		**Approach Roadway - Concrete (non-structural)** Both have mult cracks.	EA	2	0	1	1	0
X	9335		**Decorative Rail** Type J tubular railing on parapet.	EA	2	2	0	0	0

NBI Ratings

	File	New
Deck	4	7
Superstructure	7	7
Substructure	7	7
Culvert	N	N
Channel	N	N
Waterway	N	N

Structure Specific Notes

OLD: Overall, condition of structure is vg. Extensive map cracking throughout this 3 span haunched slab structure appears stable after epoxy crack filling. Delam 7%- 1995.
(99) Cracking becoming more ext**ensive in overlay. Underside in good condition, no cracks/ no eff.. rest of structure in excellent cond.**
(01) Structure is in good condition. The deck surface and parapet being the only elements need repair/ replacement. Extensive map cracking of deck surface is begining to spall and E parapet is showing cracks with rust stains full length.

Inspection Specific Notes

Inspector Site-Specific Safety Considerations

Structure Inspection Procedures

Walk-thru

Special Requirements

Chk	Hours	Cost	Comments

Routine

Document Comment/Description

NE abut ADW

Routine

Document Comment/Description

SE abut

STRUCTURE INVENTORY AND APPRAISAL FIELD REVIEW FORM

B-03-014
USH 53 SB over CARLSON SCHOOL DRIVE

LOCATION

(3) Municipality:	DOVRE
(16) Latitiude(° ' "):	45°13'17.87"N
(17) Longitude(° ' "):	91°34'56.90"W

TRAFFIC SERVICE

(28A) Lanes On:	2
(28B) Lanes Under:	2
(102) Traffic Pattern On:	-NO TRAFFIC X-ONE WAY TRAFFIC -TWO WAY TRAFFIC
(102) Traffic Pattern Under:	-NO TRAFFIC -ONE WAY TRAFFIC X-TWO WAY TRAFFIC
(19) Detour Length(mi):	1

GEOMETRY

(49) Structure Length(ft):	139.7	
(50) Sidewalk Width(ft):	**Left:** 0.0	**Right:** 0.0
(50) Curb Width(ft):	3.8	
(52) Culvert Barrel Length(ft):		
(34) Skew:	**Angle(°):** 30	**Direction:** -RIGHT FORWARD X-LEFT FORWARD
	Cardinal	**Non-Cardinal**
(51) Bridge Roadway Width(ft):	40.0	40.0
(52) Deck Width(ft):	43.8	43.8
Right Wingwall Length(ft):		
Left Wingwall Length(ft):		
(32) Approach Roadway Width(ft):	40	0
	Cardinal Under Clearance	**Non-Cardinal Under Clearance**
(47) Minimum Horizontal(ft):	51.5	
(55) Minimum Right Lateral(ft):	11.0	
(56) Minimum Left Lateral(ft):	10.5	

RAILING APPRAISAL

(36A) Bridge Rail Adequacy:	-SUB-STANDARD X-STANDARD -NOT APPLICABLE
(36B) Transition Adequacy:	X-SUB-STANDARD -STANDARD -NOT APPLICABLE
(36C) Approach Guardrail Adequacy:	-SUB-STANDARD X-STANDARD -NOT APPLICABLE
(36D) Guardrail Termination Adequacy:	-SUB-STANDARD X-STANDARD -NOT APPLICABLE

Outer Rail:

Left	Right	Type
		TYPE F (TWO SQUARE TUBES) - STEEL(8)
		TYPE F (3 SQUARE TUBES) - STEEL(65)
		TYPE F (4 SQUARE TUBES) - STEEL(72)
		TYPE M-STEEL 3 SQUARE TUBES(93)
		SLOPED FACE PARAPET LF(91)
		SLOPED FACE PARAPET HF(92)
		VERTICAL FACE PARAPET TYPE A(74)
		TYPE W-THRIE BEAM(79)
		TYPE H ON VERTICAL PARAPET(80)
		TIMBER(38)
X	X	OTHER(99) (Please specify) **Left:** TYPE J (ALUMINUM) ON SLOPED PPT(45) **Right:** TYPE J (ALUMINUM) ON SLOPED PPT(45)

Transition Type:

	CONT GUARD RAIL
	NO APP GRDRL
	NO ATTACHMENT
5	22 MM(7/8") BOLT (Please enter quantity)
	25 MM(1") BOLT (Please enter quantity)
	OTHER (Please specify)

Approach Attachment Rail Note:

Guardrail Termination Type:

X	(01) ENERGY ABSORBING TERMINAL/EAT
	(02) TURN DOWN
	(99) OTHER (Please specify)

Guardrail Termination Note:

ROADWAY ALIGNMENT APPRAISAL

(72) Approach Alignment Appraisal:

	3 Intolerable- Substantial speed reduction
	6 Fair- Minor speed reduction
X	8 Good- No speed reduction

BRIDGE DECK
REPAIR QUANTITIES

12/6/2018

Ken,
Here's a summary of our new direction for the Barron County project. Wing replacements are still in the project and Al Bjorklund wants the joints replaced on the overlays.
I've also included Al's estimated quantities for deck repairs. I would like to have another conference call with Al to discuss this change in scope, let me know if you agree and we'll try to set up a time.
I'm guessing we'll need to amend your design contract.
Let me know if you have questions.
Thanks,
Brendan

1196-04-77
USH 53 (Chippewa Co Line - CTH I NB)
RSRF20

- Change SFY from 2021 to 2023
- Add ADV SFY of 2021
- Change estimate from $14.460 M to $12.0 M to reflect BOS-recommended bridge scope changes (see below)
- Update bridge information in FIIPS to reflect BOS-recommended bridge scope changes

1196-04-77:
Current FIIPS Estimate w/o delivery: 14,460,000
New FIIPS Estimate w/o delivery including BOS changes: 12,000,000
Structure Work including: Conc overlays on B-3-14,20,24,30; Conc Overlays and Joints on B-3-26, 37; Re-decks on B-3-16,18 plus any other incidental structure work.

Here are Al's guesses on deck repair quantities, Type 1(SY)-Type 2(SY)-Full Depth(SY)

1) 1196-04-77 (USH 53, Chippewa County Line – USH 8 SB) 2021 RSRF20 $14.460 M

- B-03-14 (03) CONC OVLY 70-35-2
- B-03-16 (06) REPLACE DECK
- B-03-18 (06) REPLACE DECK
- B-03-20 (03) CONC OVLY 100-50-15
- B-03-24 (03) CONC OVLY 30-15-5
- B-03-26 (58) CONC OVLY/NEW JOINTS 20-10-1
- B-03-30 (03) CONC OVLY 125-60-10
- B-03-37 (58) CONC OVLY/NEW JOINTS 95-45-5