STR 11995 BRIDGE SAFETY INSPECTION REPORT							
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	E			
STOEFLET ROAD	42.0904 / -83.1931	824263600006B03	Fair Condition(5)				
Feature	Length / Width / Spans	Owner					
W GIBRALTAR WATERWAY	26.9 / 37.7 / 1	City: GIBRALTAR(2636)					
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status				
GIBRALTAR E/S GIBRALTAR	1992 / / /	Taylor(25)	A Open, no restriction(A)				
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation				
Metro(7) / Wayne(82)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	08/02/2023 / 1J4U	5 Stable w/in footing				

NBI INSPECTION			1J4U
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Joel Thorne	Great Lakes Engineering Group	24	08/02/2023

GENERAL NOTES

Apply for CPM work

DECK				
	08/19	08/21	08/23	
1. Surface (SIA-58A)	7	5	5	Concrete surface. Along centerline, 12"-18" wide HMA patch full length of bridge. 4'x2' HMA patch in WB. 4' x 2" at eat reference line. (08/23) Concrete surface. Along centerline, 12"-18" wide HMA patch full length of bridge. 4'x2' HMA patch in WB. (08/21) Spalls 2 to 6 in wide x 2 in deep with asphalt patch along centerline (08/19)
2. Expansion Joints	N	N	N	(08/23) (08/21) (08/19)
3. Other Joints	7	5	5	End joints covered with HMA patching. (08/23) End joints covered with HMA patching. (08/21) Asphalt patches between approach pavement and concrete deck. (08/19)
4. Railings	7	7	7	Solid concrete parapet with 2 tubes. Hairline vertical cracks on both parapets. (08/23) Hairline vertical cracks on both parapets. (08/21) Hairline vertical cracks on both parapets. (08/19)
5. Sidewalks or Curbs	6	6	6	Area of spalling on the north curb at the West Abutment (48 in x 6 in x 3 in pen). Area of cracking and spalling at the NE curb (36 in x 6 in x 1.5 in pen). Incipient spall in corner of SW sidewalk. (08/23) Area of spalling on the north curb at the West Abutment (24 in x 6 in x 3 in pen). Area of cracking and spalling at the NE curb (36 in x 6 in x 1.5 in pen). (08/21) Area of spalling on the north curb at the West Abutment (12 in x 6 in x 3 in pen). NE end of sidewalk/drainage swale completely separated from rest of structure with a 3 in gap. Area of cracking and spalling at the NE curb (18 in x 6 in x 1.5 in pen). Settlement at all 4 corners of sidewalks/drainage swales as follows: NE - 1.5 in; NW - 1.0 in; SE - 1.5 in; SW - 1.5 in. (08/19)
6. Deck Bottom Surface (SIA-58B)	N	N	N	Side by side box beams. Leakage with efflorescence along joint 6S. (08/23) Side by side box beams (08/21) (08/19)
7. Deck (SIA-58)	7	5	5	Deck surface: Concrete surface. Along centerline, 12"-18" wide HMA patch full length of bridge. 4'x2' HMA patch in WB. 4' x 2" at eat reference line. Deck bottom: Side by side box beams. Leakage with efflorescence along joint 6S. (08/23) Surface: Concrete surface. Along centerline, 12"-18" wide HMA patch full length of bridge. 4'x2' HMA patch in WB. (08/21) Patched spalls along centerline. (08/19)
8. Drainage				(08/23) (08/21) See Item 5 for notes on sidewalks/drainage swales at corners of bridge. (08/19)

SUPERSTRUCTURE

08/19 08/21 08/23

STR 11995			BRIDGE SAFETY INSPECTION REPORT					
Facility			Latit	ude / Longitude	MDOT Structure ID	Structure Condition		
STOEFLET ROAD			42.09	904 / -83.1931	824263600006B03	Fair Condition(5)		
Feature			Leng	gth / Width / Spans	Owner			
W GIBRALTAR WATE	RWAY		26.9 / 37.7 / 1		City: GIBRALTAR(2636)			
Location			Built / Recon. / Paint / Ovly.		TSC	Operational Status		
GIBRALTAR E/S GIBF	RALTAR	2	1992 / / /		Taylor(25)	A Open, no restriction(A)		
Region / County			Material / Design		Last NBI Inspection	Scour Evaluation		
Metro(7) / Wayne(82)		5 Prestressed Concrete / 05 08/02/2023 / 1J4U 5 Stable w/in fo Box Bm/Gird- Multiple				5 Stable w/in footing		
9. Stringer (SIA-59)	7	6	6	efflorescence. Beam 7S h Efflorescence noted at PT Side by side box beams. Beam 7S has hairline long Longitudinal joint between and efflorescence for the v	as hairline longitudinal lead pocket in north fascia, eas Joint between beams 6S all itudinal leaching cracks ald box beams 6 and 7 from the whole span length. The long entire span length with ra	ms 6S and 7S is leaking with ching cracks along full length of beam. It end. (08/23) and 7S is leaking with efflorescence. Ong full length of beam. (08/21) he north exhibited light water staining a light gitudinal joints between the beams had undom areas of chipping and concrete		
10. Paint (SIA-59A)	N	N	N	(08/23) (08/21) (08/19)				
11. Section Loss	N	N	3	Longitudinal crack in bean (08/21) (08/19)	n 7S, no rust. (08/23)			
12. Bearings	7	7	7	Damaged and displaced p	ad under beams 4 and 5 a ad under beams 4 and 5 a ad under beams 4 and 5 a	t west abutment. (08/21)		

SUBSTRUCTURE

08/19 08/21 08/23

				MICHIGAN DEPARTMENT	OF TRANSFORTATION			
STR 11995	STR 11995 BRIDGE SAFETY INSPECTION REPORT							
Facility STOEFLET ROAD Feature			Latitude / Longitude 42.0904 / -83.1931 Length / Width / Spans		MDOT Structure ID 824263600006B03 Owner	Structure Condition Fair Condition(5)		
W GIBRALTAR WATER	RWAY		-	/ 37.7 / 1	City: GIBRALTAR(2636)			
Location				t / Recon. / Paint / Ovly.	TSC	Operational Status		
GIBRALTAR E/S GIBR	RALTAF	₹	1992	•	Taylor(25)	A Open, no restriction(A)		
Region / County			Material / Design		Last NBI Inspection	Scour Evaluation		
Metro(7) / Wayne(82)				estressed Concrete / 05 Bm/Gird- Multiple	08/02/2023 / 1J4U	5 Stable w/in footing		
13. Abutments (SIA-60)	6	6	6	abutments have shallow 6 West - Crack in top face of with failed epoxy repair. (6 observed extending from t	" STS. f SW wingwall cap at east e B) vertical hairline to 1/16 in he waterline through the ab were observed extending f	line. Concrete surfaces of the end measuring 3/4 in. wide by 12 in. long a cracks with rust staining were butment cap. (2) vertical hairline to 1/16 from the bottom of the abutment cap to		
			East - Two cracks in the top face of the NE wingwall cap at the west end measuring 15 in. long by 1/8 in wide. (3) vertical hairline to 1/16 in cracks with rust staining were observed at the 1/4 and mid points of the bridge extending from the channel bottom through the abutmet cap. (2) voids near the north end: 2' Long x 2" High x 2" Deep and 1.5' Long x 1' High x 1" Deep. (08/23) Rust on all steel sheet pile wingwalls near the ground line. Concrete surfaces of the abutments have shallow 6" STS. West - Crack in top face of SW wingwall cap at east end measuring 3/4 in. wide by 12 in. lowith failed epoxy repair. (8) vertical hairline to 1/16 in. cracks with rust staining were observed extending from the waterline through the abutment cap. (2) vertical hairline to 1/1 in cracks with rust staining were observed extending from the bottom of the abutment cap to					
				long by 1/8 in wide. (3) ve the 1/4 and mid points of the cap. (2) voids near the nor Deep. (08/21) Minor to moderate corrosic ground line with up to 1/4 in typically rough but sound a 6 in. diameter of insufficier	rtical hairline to 1/16 in crace the bridge extending from the thend: 2' Long x 2" High x on and delamination of all s n. pen. Concrete surfaces and were smooth and sound to concrete cover and expose abutments consisted of sa	cap at the west end measuring 15 in. cks with rust staining were observed at the channel bottom through the abutment 2" Deep and 1.5' Long x 1' High x 1" teel sheet pile wingwalls near the of the abutments below water were d above water with random areas up to sed reinforcing steel. The channel and, gravel, and concrete debris up to 24		
				with failed epoxy repair; in hairline to 1/16 in. cracks withrough the abutment cap.	dicative of steel sheet pile with rust staining were obse (2) vertical hairline to 1/16	end measuring 3/4 in. wide by 12 in. long wingwall deflecting outward. (8) vertical erved extending from the waterline 5 in cracks with rust staining were cap to the waterline, with one extending		
				long by 1/8 in wide; indicat hairline to 1/16 in cracks w bridge extending from the	live of steel sheet pile wingwith rust staining were obse	cap at the west end measuring 15 in. wall deflecting outward. (3) vertical rved at the 1/4 and mid points of the abutment cap. (2) voids near the north igh x 1" Deep. (08/19)		
14. Piers (SIA-60)	N	N	N	(08/23) (08/21) (08/19)				
15. Slope Protection	N	N	N	(08/23) (08/21) Not used as structure cros	ses waterway. (08/19)			
16. Channel (SIA-61)	8	8	7	Bridge is significantly small Waterway is open. Steel s		iles walls of private property dockage. roperty dockage. (08/21) roperty dockage. (08/19)		
17. Scour Inspection	7	7	7	UW inspection completed See 2019 UW inspection. Scuba diving. No scour ob		08/23)		

APPROACH

STR 11995				BRIDGE SAFETY I	NSPECTION REPORT			
Facility			Latitue	de / Longitude	MDOT Structure ID	Structure Condition		
STOEFLET ROAD			42.090)4 / -83.1931	824263600006B03	Fair Condition(5)		
Feature			Lengtl	h / Width / Spans	Owner			
W GIBRALTAR WA	TERWAY		26.9 /	37.7 / 1	City: GIBRALTAR(2636)			
Location				Recon. / Paint / Ovly.		Operational Status		
GIBRALTAR E/S G	IBRALTA	R	1992		Taylor(25)	A Open, no restriction(A)		
Region / County				al / Design	Last NBI Inspection 08/02/2023 / 1J4U	Scour Evaluation 5 Stable w/in footing		
Metro(7) / Wayne(32)			tressed Concrete / 05 m/Gird- Multiple				
	08/19	08/21	08/23					
18. Approach Pavement	6	6		in approaches. (08/23) HMA with ruts in wheel settlement in approach	lines. Sealed cracks in both a	approaches. Estimate 1/2" of settlemen approaches. Estimate 1/2" to 1" of aled. (08/19)		
19. Approach Shoulders Sidewalks	7	7		Newer concrete approach sidewalk slabs in NE, SE, and SW. Approx 18' of approach sidewalk in each quad. (08/23) Newer concrete approach sidewalk in NE, SE, and SW. Approx 18' of approach sidewalk i each quad. (08/21) Sidewalks are in good condition. For settlement notes, see Item 5. (08/19)				
20. Approach Slopes			Slopes are stable. Broken concrete in all quadrants. (08/23) Slopes are stable. (08/21) Slopes are stable. (08/19)					
Powe				Power lines are above the south fascia. (08/23) Power lines are above the south fascia. (08/21) Power lines are above the south fascia. (08/19)				
22. Drainage Culverts	(08/23) (08/21) (08/19)							
MISCELLANEOU	S							
Guard Rail					Other Items			
Item			Rating	g	Item	Rating		
 36A. Bridge Railing	as		1	_	71. Water Adequacy	7		
36B. Transitions	,-		1		72. Approach Alignment	8		
36C. Approach Gu	ardrail		1		Temporary Support	0 No Temporary Supports		
36D. Approach Guardrail Ends			0		High Load Hit (M)	No		
					Special Insp. Equipment	1		
					Underwater Insp. Method	3		
False Decking (Tin	nber) Ren	noved t	o Comp	olete Inspection	N/A - No False Decking			
Critical Feature I	nspectio	ns (SI	_ *	Dota				
92A. Fracture Critic	o a l		Freq	<u>Date</u>				
92A. Fracture Critic	Lai		60	08/15/2019				
92C. Other Special			00	00/10/2019				
ozo. Other opecial								

92D. Fatigue Sensitive

STR 11995

BRIDGE SAFETY INSPECTION REPORT

Facility

STOEFLET ROAD

Feature

W GIBRALTAR WATERWAY

Location

GIBRALTAR E/S GIBRALTAR

Region / County

Metro(7) / Wayne(82)

Latitude / Longitude 42.0904 / -83.1931 Length / Width / Spans

26.9 / 37.7 / 1

Built / Recon. / Paint / Ovly.

1992 / /

Material / Design

5 Prestressed Concrete / 05 Box Bm/Gird- Multiple

MDOT Structure ID

824263600006B03

Owner

City: GIBRALTAR(2636)

TSC Taylor(25)

Last NBI Inspection

08/02/2023 / 1J4U

Structure Condition

Fair Condition(5)

Operational Status

A Open, no restriction(A)

Scour Evaluation

5 Stable w/in footing

SUPPORTING IMAGES 1J4U 08/02/2023



Document Name: IMG_4544.JPG

Category: Elevation Span Number:

Comments: South elevation



Document Name: IMG_4550.JPG

Category: Elevation Span Number:

Comments: North elevation



Document Name: IMG_4531.JPG

Category: Approach Span Number:

Comments: Looking east through structure



Document Name: IMG_4532.JPG

Category: Approach Span Number:

Comments: West approach

STR 11995

BRIDGE SAFETY INSPECTION REPORT

Facility

STOEFLET ROAD

Feature

W GIBRALTAR WATERWAY

Location

GIBRALTAR E/S GIBRALTAR

Region / County

Metro(7) / Wayne(82)

Latitude / Longitude 42.0904 / -83.1931 Length / Width / Spans

26.9 / 37.7 / 1

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1992 / / /

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5 Prestressed Concrete / 05 Box Bm/Gird- Multiple **MDOT Structure ID**

824263600006B03

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08/02/2023 / 1J4U

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Operational Status

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Document Name: IMG_4536.JPG

Category: Approach Span Number:

Comments: East approach



Document Name: IMG_4538.JPG

Category: Railing Span Number: Comments: South rail



Document Name: IMG_4541.JPG

Category: Railing Span Number: Comments: North rail



Document Name: IMG_4534.JPG

Category: Deck Span Number:

Comments: Deck surface

STR 11995

BRIDGE SAFETY INSPECTION REPORT

Facility

STOEFLET ROAD

Feature

W GIBRALTAR WATERWAY

Location

GIBRALTAR E/S GIBRALTAR

Region / County

Metro(7) / Wayne(82)

Latitude / Longitude 42.0904 / -83.1931 Length / Width / Spans

26.9 / 37.7 / 1

Built / Recon. / Paint / Ovly.

1992 / / /

Material / Design

5 Prestressed Concrete / 05 Box Bm/Gird- Multiple

MDOT Structure ID 824263600006B03

Owner

City: GIBRALTAR(2636)

TSC Taylor(25)

Last NBI Inspection

08/02/2023 / 1J4U

Structure Condition

Fair Condition(5)

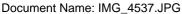
Operational Status

A Open, no restriction(A)

Scour Evaluation

5 Stable w/in footing





Category: Deck Span Number:

Comments: South sidewalk



Document Name: IMG_4540.JPG

Category: Deck Span Number:

Comments: North sidewalk



Document Name: IMG_4543.JPG

Category: Deck Span Number:

Comments: Incipient spall, SW sidewalk corner



Document Name: IMG_4533.JPG

Category: Joints Span Number:

Comments: West reference line

STR 11995

Facility

STOEFLET ROAD

Feature

W GIBRALTAR WATERWAY

Location

GIBRALTAR E/S GIBRALTAR

Region / County

Metro(7) / Wayne(82)

BRIDGE SAFETY INSPECTION REPORT

Latitude / Longitude 42.0904 / -83.1931

Length / Width / Spans

26.9 / 37.7 / 1

Built / Recon. / Paint / Ovly.

1992 / / /

Material / Design

5 Prestressed Concrete / 05 Box Bm/Gird- Multiple **MDOT Structure ID** 824263600006B03

Owner

City: GIBRALTAR(2636)

TSC Taylor(25)

Last NBI Inspection

08/02/2023 / 1J4U

Structure Condition

Fair Condition(5)

Operational Status

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Scour Evaluation

5 Stable w/in footing



Document Name: IMG_4535.JPG

Category: Joints Span Number:

Comments: East reference line



Document Name: IMG_4547.JPG

Category: Superstructure

Span Number: Comments: Beams



Document Name: IMG_4548.JPG

Category: Superstructure

Span Number:

Comments: Leaching crack, beam 7s



Document Name: IMG_4545.JPG

Category: Substructure

Span Number:

Comments: West abutment

STR 11995

BRIDGE SAFETY INSPECTION REPORT

Facility

STOEFLET ROAD

Feature

W GIBRALTAR WATERWAY

Location

GIBRALTAR E/S GIBRALTAR

Region / County

Metro(7) / Wayne(82)

Latitude / Longitude 42.0904 / -83.1931 Length / Width / Spans

26.9 / 37.7 / 1

Built / Recon. / Paint / Ovly.

1992 / / /

Material / Design

5 Prestressed Concrete / 05 Box Bm/Gird- Multiple MDOT Structure ID

824263600006B03

Owner

City: GIBRALTAR(2636)

TSC Taylor(25)

Last NBI Inspection

08/02/2023 / 1J4U

Structure Condition

Fair Condition(5)

Operational Status

A Open, no restriction(A)

Scour Evaluation

5 Stable w/in footing



Document Name: IMG_4546.JPG

Category: Substructure

Span Number:

Comments: East abutment



Document Name: IMG_4549.JPG

Category: Substructure

Span Number:

Comments: Vertical crack in abutment, typical



Document Name: IMG_4539.JPG

Category: Channel Span Number:

Comments: South channel



Document Name: IMG_4542.JPG

Category: Channel Span Number:

Comments: North channel