STR 11993	CULVERT SAFETY IN	ISPECTION REPORT		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	<u>_</u>
S GIBRALTAR	42.0854 / -83.2057	824263600006B01	Fair Condition(6)	
Feature	Length / Width / Spans	Owner		
BLAKELY DRAIN	34.1 / 42.3 / 1	City: GIBRALTAR(2636)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
GIBRALTAR E/JEFFERSON	1992 / / / 1995	Taylor(25)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
Metro(7) / Wayne(82)	1 Concrete / 19 Culvert	08/02/2023 / HLEP	5 Stable w/in footing	
CULVERT INSPECTION				HLEP

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

GENERAL NOTES

Use east west alignment for roadway. HMA surface with sealed and unsealed cracks. 1 SFT of settlement in WB lane. Heavy leaching map cracks in north rail.

Water surface is 15" below top of precast arch. Set UW inspection for 24 months.

NBI INSPECTION

	08/19	08/21	08/23	
1. Culvert Rating (SIA-62)	Ν	7	6	(08/23) (08/21) (08/19)
2. Channel (SIA-61)	7	7	7	Channel banks are heavily vegetated with tall grass and reeds growing between riprap. (08/23) Channel banks are heavily vegetated with tall grass and reeds growing between riprap. (08/21) Bridge constricts waterway approx. 50 feet in NE quad and 30 ft in SW quad. Heavily vegetated with tall grass and reeds growing between riprap. (08/19)
3. Scour	8	8	4	2021 UW inspection report noted the following: West abutment: Vertical footing exposure along the majority of the length of the abutment. no undermining observed. Vertical exposure ranged from 0" to 2'-0". East abutment: Vertical footing exposure along the majority of the length of the abutment. no undermining observed. Vertical exposure ranged from 0" to 1'-0". (08/23) See 2018 UW inspection (08/21) Probed from deck. No scour observed. (08/19)
AASHTO ELEMENT	s			(English Units)

						(Eng	
Element	Element	Total	Unit	Good	Fair	Poor	Severe
Number	Name	Quantity		CS1	CS2	CS3	CS4
Culvert							
851	Reinf Conc Culvert 3-Sided	42	ft	42	0	0	0
				100%	0%	0%	0%

Precast conspan. Water 15" below top of arch. Cracking along the north and south fascia with areas of spalls to steel. 2021 UW report notes light map cracking in culvert soffit with segments 1n and 2n being slightly offset by up to 1".

861	Culvert Wingwall	4	(EA)	4	0	0	0
				100%	0%	0%	0%
CIP wing	gwalls						
863	Culvert Headwall	2	(EA)	2	0	0	0
				100%	0%	0%	0%
CIP hea	dwalls with hairline map cracks						
MISCE	LLANEOUS						
Guard	Rail		Other Iten	າຣ			
Itom	Pating		Itom		Poting		

Item	Rating	<u>li</u>	tem	Rating	
36A. Bridge Railings	1	7	71. Water Adequacy	6	
Modified by: THORNEJ1998 on 08/15	/2023	Printed on 08	8/15/2023		Page 1 of 6

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36B. Transitions	1	72. Approach Alignment	8
36C. Approach Guardrail	1	Special Insp. Equipment	1
36D. Approach Guardrail Ends	1	Underwater Insp. Method	3
RECOMMENDATIONS & ACTI	ON ITEMS		
December define Trans	D 1. 14		

Recommendation Type	Priority	Description
Super Repair	L	Repair spall with exposed reinforcing steel on fascias of the bridge.

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SUPPORTING IMAGES



Document Name: IMG_4641.JPG Category: Elevation Span Number: Comments: South elevation



Document Name: IMG_4632.JPG Category: Approach Span Number: Comments: Looking west through structure

Document Name: IMG_4645.JPG Category: Elevation Span Number: Comments: North elevation



Document Name: IMG_4635.JPG Category: Railing Span Number: Comments: South rail



HLEP 08/02/2023

Status restriction(A) uation n footing

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Document Name: IMG_4638.JPG Category: Railing Span Number: Comments: North rail



Document Name: IMG_4634.JPG Category: Deck Span Number: Comments: South sidewalk



Document Name: IMG_4633.JPG Category: Deck Span Number: Comments: HMA surface



Document Name: IMG_4637.JPG Category: Deck Span Number: Comments: North sidewalk

STR 11993

Facility	L
S GIBRALTAR	4
Feature	L
BLAKELY DRAIN	З
Location	E
GIBRALTAR E/JEFFERSON	1
Region / County	N
Metro(7) / Wavne(82)	1

CULVERT SAFETY INSPECTION REPORT

Latitude / Longitude 42.0854 / -83.2057 Length / Width / Spans 34.1 / 42.3 / 1 Built / Recon. / Paint / Ovly. 1992 / / /1995 Material / Design 1 Concrete / 19 Culvert MDOT Structure ID 824263600006B01 Owner City: GIBRALTAR(2636) TSC Taylor(25) Last NBI Inspection 08/02/2023 / HLEP Structure Condition Fair Condition(6)



Operational Status A Open, no restriction(A) Scour Evaluation 5 Stable w/in footing



Document Name: IMG_4640.JPG Category: Deck Span Number: Comments: Settlement in WB Iane



Document Name: IMG_4643.JPG Category: Culvert Span Number: Comments: Looking north through culvert



Document Name: IMG_4642.JPG Category: Culvert Span Number: Comments: STS in fascia



Document Name: IMG_4646.JPG Category: Culvert Span Number: Comments: Looking south through culvert

STR 11993

Facility S GIBRALTAR Feature BLAKELY DRAIN Location GIBRALTAR E/JEFFERSON Region / County Metro(7) / Wayne(82)

Latitude / Longitude 42.0854 / -83.2057 Length / Width / Spans 34.1 / 42.3 / 1 Built / Recon. / Paint / Ovly. 1992 / / / 1995 Material / Design 1 Concrete / 19 Culvert

MDOT Structure ID 824263600006B01 Owner City: GIBRALTAR(2636) TSC Taylor(25) Last NBI Inspection 08/02/2023 / HLEP Structure Condition Fair Condition(6)



Operational Status A Open, no restriction(A) Scour Evaluation 5 Stable w/in footing



Document Name: IMG_4636.JPG Category: Channel Span Number: Comments: South channel



Document Name: IMG_4639.JPG Category: Channel Span Number: Comments: North channel