

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION REPORT

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N

SR 10 over CUY RIVER VALLEY & FI RR

Inspection Type: Routine

Inspection Date: 10/10/2015

District: 12 County: CUYAHOGA

Place Code (FIPS): CLEVELAND

Bridge Type: STEEL Type of Service: HIGHWAY-PEDESTRIAN Owner: OHIO STATE TRANSPORTATION DEPARTMENT Inspection Responsibility: OHIO STATE TRANSPORTATION DEPARTMENT Maintenance Responsibility: OHIO STATE TRANSPORTATION DEPARTMENT Lead Inspector: Malloy, Michael Reviewed By: Malloy, Michael

STATE OF OHIO DEPARTMENT OF TRANSPORTATION LOCATION MAP

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

Date Built: 7/1/1932

SR 10 over CUY RIVER VALLEY & FI RR Type

Type of Service on: HIGHWAY-PEDESTRIAN

No photos have been uploaded for this report.

STATE OF OHIO DEPARTMENT OF TRANSPORTATION GENERAL ELEVATION PHOTOS

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

Date Built: 7/1/1932

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

SR 10 over CUY RIVER VALLEY & FI RR

(373) Feature Intersected: (373) Mile Marker: (387) Special Desig: (373) Feature Intersected: (380) ADT Year: (373) Avg. Daily Traffic (ADT): (380) ADT Year: (381) Truck Traf: (384) Corridor: (378) NHS: (375) Functional Class: (386) Strahnt: Clearance On the Bridge (386) Strahnt: Min. Hriz on Bridge: (335) NC: 0 Ft (330) Left NC: 0 Ft (47) CARD: 60 Ft (53) Prac Max Vert On Brg: (336) NC: 0 Ft (340) Left NC: 0 Ft (10) CARD: 99.99 Ft Min Latl Clr: (338) Right NC: 0 Ft (39) Vrt Clr Lft: 95 Ft Structure Information (19) Bypass Length: 2 Miles (17) Longitude: -81.696442 (16) Latitude: 41.487378 (17) Longitude: -81.696442 (20) Toil: 2 - OR Proof the structure is toll (10) Maior Pachabilitation: (19) Bypass Length: 2 Miles (17) Longitude: -81.696442 (16) Latitude: 41.487378 (17) Longitude: -81.696442 (20) Toil: 2 - OR Proof the structure is toll (10) Maior Pachabilitation:	AM/1 - SIMPLE (49) Overall Leng: 3657.333 Ft Information:
(5A) Route On/Under: 1 - Route carried 'on' the (5B) Hwy Sys: 3 - State Highway (5A) Route No: 00010 (5E) Dir: 0 - Not (5C) Des: 1 - Mainline (5A) Route No: 00010 (5E) Dir: 0 - Not (5C) Des: 1 - Mainline (6) Feature Intersected: CUY RIVER VALLEY & FIRR (5C) Des: 1 - Mainline (5A) Route No: 00010 (5E) Dir: 0 - Not (5C) Des: 1 - Mainline (3) County: CUY (200) Mileage: (61.30) (201) Special Desig: N (209)Mile Marker: (30) ADT Year: 2010 Abut-Rear (532) Matt: 2 - Concrete (520) Type: 3 - Soited Highway (28) Functional Class: 16 - Urban - Minor Arterial (100) Strahrt: 0 - NOT STRAHNET Foundation and Scour Abut-Rear (532) Matt: 2 - Concrete (540) Type: 3 - Soited Highway (370A) Record Type: (370B) Hwy Sys: (370B) Hwy Sys: (370A) Record Type: (370E) Dir: (370C) Des: (370A) Record Type: (370B) Hwy Sys: (363) Matt: 2 - Concrete (540) Type: 5 - Cappe Pier-Other (541) Matt: 2 - Concrete (540) Type: 5 - Cappe (545) Pier, Total Count: 15 (370A) Record Type: (370E) Dir: (380) ADT Year: (370B) Hwy Sys: (380) ADT Year: (380) ADT Year: (370P) Aug. Daily Traffic (ADT): (380) ADT Year: (383) NC: 0 Ft (375) Functional Class: (380) ADT Year: (383) NC: 0 Ft (376) Functional Class: (335) NC: 0 Ft (47) CARD: 60 Ft (38) Vrt CIr Lft: (338) Right NC: 0 F	AM/1 - SIMPLE (49) Overall Leng: 3657.333 Ft Information:
(5A) Route On/Under: 1 - Route carried 'on' the (5B) Hwy Sys: 3 - State Highway (46) Approach Spans Number: 5 Type: 3 - STEEL/2 - B (5D) Route No: 00010 (5E) Dir: 0 - Not (5C) Des: 1 - Mainline (30) (6) Feature Intersected: CUY RVEX PLALEY & FIR Foundation and Scou (29) Ayg, Daily Traffic (ADT): 11,960 (30) ADT Year: 2010 Abut-Rear (532) Matt: 2 - Concrete (531) Type: 3 - STEEL/2 - B (235) Truck Traf: 750 (210) Corridor: N (104) HHS: 0 - NOT STRAHNET Foundation and Scou Abut-Rear (532) Matt: 2 - Concrete (534) Type: 3 - Solid' (26) Functional Class: 16 - Urban - Minor Arterial (100) Strahnt: 0 - NOT STRAHNET Foundation and Scou Abut-Rear (532) Matt: 2 - Concrete (534) Type: 3 - Solid' (370A) Record Type: (370B) Hwy Sys: (370C) Des: (370C) Des: (545) Pier, Total Count: 15 (663) Stream Velocity: 5.6 fps (113) Scour: 8 - Bridg (373) Fauture Intersected: (330) ADT Year: (380) ADT Year: (328) Prac Max Vn Under Clear: (326) NC: 0 Ft (375) Functional Class: (336) Strahnt: Clearance Under T (329) Right NC: 0 Ft (337) Right CARD: 1.333 Ft Min. Hriz on Bridge: (335) NC: 0 Ft (47) CARD: 60 Ft (339) Left CARD: 1.333 Ft (64) Opr Rat F	(49) Overall Leng: 3657.333 Ft information: rer (533) Fnd: 4 - Spread Footing all (528) Fnd: 4 - Spread Footing olumn (536) Fnd: 4 - Spread Footing column (536) Fnd: 4 - Spread Footing Column (539) Fnd: 0 - Other Column (542) Fnd: 0 - Other Column (542) Fnd: 0 - Other foundations determined to be stable for the assessed or ng Bridge (325) CARD: 0 Ft (54) CARD: R 0 Ft (54) CARD: R 0 Ft (55) Right CARD: R 99.99 Ft (56) Left CARD: 99.99 Ft (71-72) Appraisal (71) Waterway Adequacy: 8
(3) County: CUY (200) Mileage: 16.130 (201) Special Desig: N (209)Mile Marker: Substructure: Foundation and Scou (29) Avg. Daily Traffic (ADT): 11.960 (30) ADT Year: 2010 Abut-Rear (532) Matt: 2 - Concrete (531) Type: 3 - Solid (235) Truck Traf: 750 (210) Corridor: N (104) NHS: 0 - NON-NHS BRIDGE Abut-Rear (522) Matt: 2 - Concrete (534) Type: 3 - Solid (26) Functional Class: 16 - Urban - Minor Arterial (100) Straht: 0 - NOT STRAHNET Pier-Other (538) Matt: 2 - Concrete (534) Type: 3 - Solid (370A) Record Type: (370B) Hwy Sys: (370B) Hwy Sys: (370C) Des: (370D) Route No: (370E) Dir: (370C) Des: (370C) Des: (545) Pier, Total Count: 15 (370A) Record Type: (370B) Marker: (387) Special Desig: (380) ADT Year: (545) Pier, Total Count: 15 (373) Avg. Daily Traffic (ADT): (380) ADT Year: (380) ADT Year: (383) Strahnt: (373) Avg. Daily Traffic (ADT): (380) ADT Year: (386) Strahnt: Clearance On the Bridge Min. Hriz on Bridge: (335) NC: 0 Ft (47) CARD: 99.99 Ft Min. Horiz Under Clear: (327) NC: 0 Ft Min Latt Cir: (338) Right NC: 0 Ft (339) Left CARD: 1.533 Ft (64) Opr Rat Fact: 0.590 (700) LD: 2 - HS20 Loading (39) Vrt Cir Lft: (39) Yrt Cir Lft: (39) Structure Information (734) Ohio Percent Legal 150 150 (704) Year Rating: 7/1/2012 (65) Ne Rat Fact: 0.590	rer (533) Fnd: 4 - Spread Footing all (528) Fnd: 4 - Spread Footing olumn (536) Fnd: 4 - Spread Footing Column (539) Fnd: 0 - Other Column (542) Fnd: 0 - Other foundations determined to be stable for the assessed or ng Bridge (325) CARD: 0 Ft (54) CARD: R 0 Ft (55) Right CARD: R 99.99 Ft (56) Left CARD: 99.99 Ft (56) Left CARD: 99.99 Ft (71) Waterway Adequacy: 8
(370A) Record Type: (370B) Hwy Sys:	foundations determined to be stable for the assessed or ng Bridge (325) CARD: 0 Ft (54) CARD: R 0 Ft (55) Right CARD: R 99.99 Ft (56) Left CARD: 99.99 Ft (71-72) Appraisal (71) Waterway Adequacy: 8
(3701) Route No: (3702) Dir: (3702) Dir: (3702) Des: (3702) Route No: (3702) Dir: (3702) Des: (663) Stream Velocity: 5.6 fps (113) Scour: 8 - Bridg (3703) Feature Intersected: (3704) Dir: (387) Special Desig: (663) Stream Velocity: 5.6 fps (113) Scour: 8 - Bridg (3704) Avg. Daily Traffic (ADT): (380) ADT Year: (380) ADT Year: (663) Stream Velocity: 5.6 fps (113) Scour: 8 - Bridg (3705) Functional Class: (380) ADT Year: (380) Stream Velocity: 5.6 fps (113) Scour: 8 - Bridg (92B) Dive: Y Freq: 60 (655) Chan Prot: 4 - F (93B) Date of Last Dive Insp: 07/14/2015 (657) Drainage Area: (3705) Functional Class: (386) Strahnt: (3705) NE: (386) Strahnt: (386) Stream Velocity: 5.6 fps (113) Scour: 8 - Bridg Min. Hriz on Bridge: (338) NE: (3705) NHS: (3705) NE:	Ing 2 Bridge (325) CARD: 0 Ft (54) CARD: R 0 Ft (55) Right CARD: R 99.99 Ft (56) Left CARD: 99.99 Ft (71-72) Appraisal (71) Waterway Adequacy: 8
(381) Truck Traf: (384) Corridor: (375) NHS: (375) Functional Class: (376) NHS: (386) Strahnt: Min. Horiz Under Clear: (326) NC: 0 Ft (375) Functional Class: (336) Strahnt: Clearance On the Bridge (327) NC: 0 Ft 0 Ft Min. Hriz on Bridge: (335) NC: 0 Ft (47) CARD: 60 Ft Min. Vert Under Clear: (327) NC: 0 Ft (53) Prac Max Vert On Brg: 99.99 Ft (336) NC: 0 Ft (10) CARD: 99.99 Ft Min Lat Under Clear: (329) Right NC: 0 Ft Min Latl Clr: (338) Right NC: 0 Ft (10) CARD: 99.99 Ft Min Lat Under Clear: (320) Left NC: 0 Ft (39) Vrt Clr Lft: (340) Left NC: 0 Ft (337) Right CARD: 1.333 Ft (31) Design Load: 4 - H20 (64) Opr Rat Fact: 0.980 (700) LD: 2 - HS20 Loading (39) Vrt Clr Lft: 95 Ft 551 (17) Longitude: -81.696442 (704) Year of Rating: 7/1/2012 (63) Analysis: 6 - Load Factor (LF) rating reported by RF using HS20 (19) Bypass Length: 2 Miles (17) Longitude: -81.696442 (63) Analysis: 6 - Load Factor (LF) rating reported by RF using HS20 (708) Rate Soft: 7 - Combination	(54) CARD: R 0 Ft (55) Right CARD: R 99.99 Ft (56) Left CARD: 99.99 Ft (71-72) Appraisal (71) Waterway Adequacy: 8
(375) Functional Class: (386) Strahnt: (386) Strahnt: (387) Functional Class: (386) Strahnt: (375) Functional Class: (386) Strahnt: (386) Strahnt: (328) Prac Max Vrt Under Clear: (327) NC: 0 Ft Min. Hriz on Bridge: (335) NC: 0 Ft (47) CARD: 60 Ft (328) Prac Max Vrt Under Clear: (329) Right NC: 0 Ft (53) Prac Max Vert On Brg: (336) NC: 0 Ft (10) CARD: 99.99 Ft Min Lat Under Clear: (329) Right NC: 0 Ft Min Latl Clr: (338) Right NC: 0 Ft (337) Right CARD: 1.333 Ft (31) Design Load: 4 - H20 (64) Opr Rat Fact: 0.980 (700) LD: 2 - HS20 Loading (39) Vrt Clr Lft: 95 Ft 55 (66) Inv Rat Fact: 0.590 (702) LD: 2 - HS20 Loading (19) Bypass Length: 2 Miles (17) Longitude: -81.696442 (63) Analysis: 6 - Load Factor (LF) rating reported by RF using HS20 (708) Rate Soft: 7 - Combination (106) Maior Rabbilitation: 1982	(54) CARD: R 0 Ft (55) Right CARD: R 99.99 Ft (56) Left CARD: 99.99 Ft (71-72) Appraisal (71) Waterway Adequacy: 8
Clearance On the Bridge Min. Vert Under Clear: (327) NC: 0 Ft Min. Hriz on Bridge: (335) NC: 0 Ft (47) CARD: 60 Ft Min. Vert Under Clear: (329) Right NC: 0 Ft (53) Prac Max Vert On Brg: 99.99 Ft (336) NC: 0 Ft (10) CARD: 99.99 Ft Min Lat Under Clear: (329) Right NC: 0 Ft Min Vrt Clr On Brg: (336) NC: 0 Ft (10) CARD: 99.99 Ft Load Rating Information Min Latl Clr: (338) Right NC: 0 Ft (337) Right CARD: 1.333 Ft (31) Design Load: 4 - H20 (39) Vrt Clr Lft: 95 Ft (339) Left CARD: 1.583 Ft (64) Opr Rat Fact: 0.980 (700) LD: 2 - HS20 Loading (19) Bypass Length: 2 Miles (17) Longitude: -81.696442 (704) Year of Rating: 7/1/2012 (63) Analysis: 6 - Load Factor (LF) rating reported by RF using HS20 (16) Latitude: 41.487378 (17) Longitude: -81.696442 (108) Maior Republikation: 1082	(55) Right CARD: R 99.99 Ft (56) Left CARD: 99.99 Ft (71-72) Appraisal (71) Waterway Adequacy: 8
(13) Prac Max Vert On Brg: 99.99 Ft (336) NC: 0 Ft (10) CARD: 99.99 Ft (11) Vrt Clr On Brg: (336) NC: 0 Ft (10) CARD: 99.99 Ft (330) Left NC: 0 Ft (11) Min Latl Clr: (338) Right NC: 0 Ft (337) Right CARD: 1.333 Ft (31) Design Load: 4 - H20 (39) Vrt Clr Lft: 95 Ft (339) Left CARD: 1.583 Ft (64) Opr Rat Fact: 0.980 (700) LD: 2 - HS20 Loading (19) Bypass Length: 2 Miles (17) Longitude: -81.696442 (704) Year of Rating: 7/1/2012 (63) Analysis: 6 - Load Factor (LF) rating reported by RF using HS20 (12) Toll: 3. On Erron Broad the structure is tell (106) Maior Republikation: 1082	(56) Left CARD: 99.99 Ft (71-72) Appraisal (71) Waterway Adequacy: 8
Min Latl Clr: (338) Right NC: 0 Ft (337) Right CARD: 1.333 Ft (31) Design Load: 4 - H20 (39) Vrt Clr Lft: 95 Ft (339) Left CARD: 1.583 Ft (64) Opr Rat Fact: 0.980 (700) LD: 2 - HS20 Loading Comparison of the structure Information (19) Bypass Length: 2 Miles (16) Latitude: 41.487378 (17) Longitude: -81.696442 (63) Analysis: 6 - Load Factor (LF) rating reported by RF using HS20 (708) Rate Soft: 7 - Combination (106) Maior Rababilitation: 1982	(71) Waterway Adequacy: 8
(19) Bypass Length: 2 Miles (16) Latitude: 41.487378 (17) Longitude: -81.696442 (20) Toll: 3. On Erro Boad, the structure is tell (10) Maior Behabilitation: 1082	(72) Approach Alignment: 7(67) Calc Str Appraisal: 4 - Meets minimum tolerable
(27) Date Built: 1932 Major Reconstruction Date: 01/01/1983 (707) PE# 69991	(68) Calc Deck Geometry: 5 - Somewhat better than(69) Calc Underclearance: 3 - Intolerable - high priority
(28A) No. Lanes On: 4 (28B) No. Lanes Under: 0 Approach Infor	ation
(301) Horiz Curve: (34) Skew: 0 Deg (401) Approach Guardrail: 0 - Other (32) App. Rdw Width: 60 Ft (51) Brg. Rdw Width: 60 Ft (403) Approach Pavement: 2 - Bituminous (52) Deck Width: 83 Ft Deck Area: 303556 Culvert Inform	(402) Grade: 1 - Good
Collect Width: 83 Ft Deck Area: 303556 Culvert Inform (406) Median Type: N - NONE/N - NON BARRIER/N - NO JOINT (33) Bridge median: N - No median (575) Culvert Type: N - Not a Culvert or Rigid Frame Sidewalks: (50A) Left: 6.7 Ft (50B) Right: 6.7 Ft (50B) Right: 6.7 Ft	fon (578) Length: 0 Ft (582) Headwalls: N - None or Not Applicable (Not a
Type Curb or Sidewalk: General Inform	tion
(425) Left Mati: 1 - Concrete (426) Type: 2 - Sidewalk (greater than 2' in (475) Main Member: 1 - Rolled Steel (427) Right Mati: 1 - Concrete (428) Type: 2 - Sidewalk (greater than 2' in (414) Expansion Joint: 0 - OTHER// (412) Flared: Y (408) Composite: Y - Composite Construction (453) Bearing Devices: 1 - ROLLERS/N - NONE/	(477) Moment Plate: N - No Moment Plates
(407) Railing: 5 - Reinforced Concrete Post and Concrete Panel(38) Navigation: 1 - Yes Navigation control on (39) Vert Clr: 95(409) Deck Drainage: 3 - Scuppers and downspouts(92C) Spec Insp: NFreq: 0(107) Deck Type: 1 - Reinforced concrete(92A) Fracture Critical Insp: YFreq: 24	(93C) Special Inspection Date:
	(93A) Special Inspection Date: 08/01/2014
(108A) Wearing Surface: C - Micro-silica Modified Concrete - Overlay (40	(93A) Special Inspection Date: 08/01/2014) Hinges: 2 - Pins, Pin Plates) Framing: N - None or Not Applicable) Railing: 5 - Reinforced Concrete Post and Concrete Panel) Paint: 5 - Paint System OZEU

Bridge Inventory and Appraisal Inventory Bridge Number: CUY 00010 16.130 N 1 CUY RIVER VALLEY & FI RR

	General Inf	ormation (Continued)			Original Plan	ns Information	
(37) Hist Significance: 4 - Not determinable (112) NBIS: Yes (842) Hist/Designer: 176 - WILBUR WATSON & ASSOCIATES (827) Hist Build Year: 1932 (828) Hist Type: 325 - CANITLEVER (98A) Border Bridge (98B) Resp: (99) SFN: Proposed Improvements (114) Future ADT (On Bridge): 16600 (115) Year of Future ADT: 2002				 (250) Fabricator: (249) Contractor: (248) Ohio Original Construction Project Number: (252) Microfilm Reel: (251) Standard Drawing: Aperture Cards: (246) Orig: Y (247) Repair: Y (245) Fabr: Y (709) Rating Score: 1 - Plan information available for load rating analysis (Default) 			lt)
(115) Year of Future ADT:				L L	Itilities	Special	Features
(58) Deck: (59) Superstructure: (60) Substructure:	ction Summary 6 4 7	(36A) Railings: (36B) Transitions: (36C) Guardrail:	Survey Items 1 - Meets acceptable standards 1 - Meets acceptable standards 1 - Meets aceptable standards	 (265) Electric Line: (266) Gas Line: (269) Sanitary Sewer: (267) Telephone Line: (268) TV Cable: (270) Water Line: (271) Other Utilities: 	U Y U U U U U	 (283) Lighting: (430) Fence: (432) Glare Screen: (435) Splash Guard: (459) Catwalk: (271) Other-Feat: (279) Signs on Bridge: (281) Signs Under Bridge (431) Fence Height: (433) Noise Barrier: 	Y N N Y U Y S: N O Ft N
 (62) Culvert: (61) Channel: (c6) Approaches: General Appraisal: (41) Operational Status: (90) Inspection Date: (91) Desig Insp Freq: 	N 4 7 4 A 10/10/2015 12 Months	(36D) Rail Ends: (92A) Fracture Critical: (113) Scour Critical: Inspection Review Date	 Meets acceptable standards Y Bridge foundations determined to 	Insp 1st: 1 - Ohio State Transportation Department 2nd: X - None 3rd: X - None (21) Major Maint 1st: 1 - Ohio State Transportation Department 2nd: X - None 3rd: X - None			
SFNs Replacing this retired bridge: - SFNs That were replaced by this bridge: - This bridge was retired and copied to: The bridge was copied from:			(225) Routine Maint 1st: 4 - City or other Local Agency 2nd: X - None 3rd: X - None				

STATE OF OHIO DEPARTMENT OF TRANSPORTATION IDENTIFICATION

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N Date Built: 7/1/1932 Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

SR 10 over CUY RIVER VALLEY & FI RR

					ON						
395					(9) Location:	LORAIN/C			3RID(GE	
180150)3				(11) Kilometerpoint:		25.9	153			
							0				
):					
16.130)				(42) Type of Service:	On 5		Und	er 7	,	
Ν					(28) Lanes:	On 4		Und	ler 0)	
16000					(19) Bypass Detour Length	1:	2				miles
3					(16) Latitude at Rear Abutr	ment:	41.4	87378	3		degrees
HOPE	MEMOR	IAL/LOR	AIN CAR	NEGIE	(17) Longitude at Rear Abu	utment:	-81.	69644	2		degrees
08					(211) Latitude at Forward A	Abutment:					degrees
					(212) Longitude at Forward	d Abutment:					degrees
	1				(98A) Border Bridge State	Code:					
ystem):	3				(98B) Border Bridge State	%					
Design.):	1				(99) Border State Bridge N	umber:					
	00010	1			(213) NLF_ID Inventory Ro	oute:	SCL	JYSRC	00010	**C	
	0				(214) Railroad Identificatio	n:	NN				
					(215) AARDOT Number:						
NP					(218) Major Bridge:		Y				
CUY R	IVER VA	LLEY &	FIRR		(219) Temporary Barrier:						
99					(220)Inventory Location		CU	Y			
10					(222) Temporary Debris Ne	et:					
			mile		(223) Temporary Shored:						
Ν					(224) Temporary Sub-Deck	ing:					
			C	CLASSIFICAT							
3					(100) STRAHNET Highway	/ Designation:	: 0				
1		Х	Х		(101) Parallel Highway Des	signation:	Ν				
4		Х	Х		(103) Temporary Structure	Designation:					
1					(104) Highway System of t	he Inventory	0				
: 16					(105) Federal Lands Highw	/ay:	0				
3		4	3				0				
3		2	1				Ν				
					(227) GASB:		Y				
				TRAFFIC							
					(,						
): 750					(115) Year of Future Avg. I	Daily Traffic:		3			
2					(109) Average Daily Truck		6				
			BRID	GE WORK HI	STORY						
7/1/*	1932				(253) SFN REPLACING THIS RETIRE	D BRIDGE 1:					
1932	2										
Y											
Y					(256) SFN(s) THAT WERE REPLACED B	Y THIS BRIDGE 2:					
Y					(106) Year Reconstructed:		198	3			
:					Major Reconstruction Date	: :	01/0)1/198	3		
						om:					
					(259) Record Add Date:		1/1/	1900			
					(260) Record Update Date	:					
36		-	1		(262) Bridge(s) Copied To:						
nt: 330	0.00				(95) Roadway Improvemen	nt Cost:	100				
					(95) Roadway Improvemer (96) Total Project Cost:	nt Cost:	100 380				
	SR 10 12 18 16.130 N 16000 3 HOPE 08 vstem): Design.): NP CUY R 99 10 N CUY R 99 10 N 10 S 11 4 1 5 10 2010): 750 2 Y Y Y Y Y Y	SR 10 12 18 16.130 N 16000 3 HOPE MEMOR 08 1 vstem): 3 Design.): 1 00010 0 NP CUY RIVER VA 99 10 N CUY RIVER VA 99 10 N 	SR 10 12 18 16.130 N 16000 3 HOPE MEMORIAL/LOR 08	SR 10 12 18 16.130 N 16000 3 HOPE MEMORIAL/LORAIN CAR 08 vstem): 3 Design.): 1 00010 0 NP CUY RIVER VALLEY & FI RR 99 10 mile N CUY RIVER VALLEY & FI RR 99 10 mile N CUY RIVER VALLEY & TI RR 99 10 CUY RIVER VALLEY & TI RR 99 10 mile N CUY RIVER VALLEY & TI RR 99 10 M CUY RIVER VALLEY & TI RR 99 10 M 10 10 10 10 10 10 10 10 10 10	SR 10 12 18 16.130 N 16000 3 HOPE MEMORIAL/LORAIN CARNEGIE 08 ystem): 3 Design.): 1 00010 0 NP CUY RIVER VALLEY & FI RR 99 10 mile N CLASSIFICATI 3 1 X X 4 X X 1 : 16 3 4 3 3 2 1 TRAFFIC 11960 2010): 750 2 BRIDGE WORK HI 7/1/1932 1932 Y Y	SR 10 (12) Base Highway Networ 12 (13A) LRS Inventory Route 18 (13B) Subroute Number: 16.130 (42) Type of Service: N (28) Lanes: 16000 (19) Bypass Detour Length 3 (16) Latitude at Rear Abut HOPE MEMORIAL/LORAIN CARNEGIE (17) Longitude at Rear Abut HOPE MEMORIAL/LORAIN CARNEGIE (17) Longitude at Rear Abut HOPE MEMORIAL/LORAIN CARNEGIE (212) Longitude at Rear Abut HOPE MEMORIAL/LORAIN CARNEGIE (211) Latitude at Rear Abut HOPE MEMORIAL/LORAIN CARNEGIE (211) Latitude at Rear Abut HOPE MEMORIAL/LORAIN CARNEGIE (211) Latitude at Rear Abut MO010 (213) NLF_ID Inventory Ro 0 (213) NLF_ID Inventory Ro 0 (214) Railroad Identificatio 0 (213) NLF_ID Inventory Ro 0 (213) NLF_ID Inventory Ro 0 (214) Railroad Identificatio 0 (223) Temporary Subcrete CUY RIVER VALLEY & FI RR (219) Temporary Subcrete 10 (224) Temporary Subcrete 11 X X 11 X X	SR 10 (12) Base Highway Network: 12 (13A) LRS Inventory Route: 18 (13B) Subroute Number: 16.130 (42) Type of Service: On 5 N (28) Lanes: On 4 16000 (19) Bypass Detour Length: 3 3 (16) Latitude at Rear Abutment: HOPE MEMORIAL/LORAIN CARNEGIE (17) Longitude at Forward Abutment: 08 (211) Latitude at Forward Abutment: 1 (98A) Border Bridge State Code: ystem): 3 (98B) Border State Bridge Number: 0 (213) NLF_ID Inventory Route: 0 0 (214) Railroad Identification: (215) AARDOT Number: 00 (213) NLF_ID Inventory Route: 0 0 (213) Temporary Shored: (224) Temporary Shored: N (223) Temporary Shored: (224) Temporary Structure Designation: 1 (100) STRAHNET Highway Designation: (104) Highway System of the Inventory 1 X X (103) Temporary Structure Designation: 1 X X (104) Flaghway Cosention: 1 X X (105) Federal Lands Highway:	SR 10 (12) Base Highway Network: 0 12 (13A) LRS Inventory Route: 1 18 (13B) Subroute Number: 1 16.130 (42) Type of Service: On 5 N (28) Lanes: On 4 16000 (19) Bypass Detour Length: 2 3 (16) Latitude at Rear Abutment: 41.4 HOPE MEMORIAL/LORAIN CARNEGIE (17) Longitude at Forward Abutment: 41.4 HOPE MEMORIAL/LORAIN CARNEGIE (17) Longitude at Forward Abutment: 41.4 HOPE MEMORIAL/LORAIN CARNEGIE (17) Longitude at Forward Abutment: 41.4 HOPE MEMORIAL/LORAIN CARNEGIE (17) Longitude at Forward Abutment: 41.4 HOPE MEMORIAL/LORAIN CARNEGIE (17) Longitude at Forward Abutment: 41.4 HOPE MEMORIAL/LORAIN CARNEGIE (17) Longitude at Forward Abutment: 41.4 HOPE MEMORIAL/LORAIN CARNEGIE (17) Longitude at Forward Abutment: 41.4 O0010 (213) NLF_ID Inventory Route: SCI.0 00010 (214) Rainoad Identification: NN (215) AARDOT Number: (20) CUY RIVER VALLEY & FI RR (219) Temporary Subcreacian CUY NP	SR 10 (12) Base Highway Network: 0 12 (13A) LRS Inventory Route: 18 (13B) Subroute Number: 16.130 (42) Type of Service: On 5 Und 16000 (19) Bypass Detour Length: 2 3 (16) Latitude at Rear Abutment: 41.487378 HOPE MEMORIAL/LORAIN CARNEGIE (17) Longitude at Forward Abutment: -81.69644 08 (211) Latitude at Forward Abutment: -81.69644 08 (212) Longitude at Forward Abutment: -81.69644 08 (212) Longitude at Forward Abutment: -81.69644 09 Border Bridge State Code: -91.6984 00010 (213) NLF_ID Inventory Route: SCUYSRC 00010 (214) Railroad Identification: NN 199 (220) Inventory Location CUY 10 (222) Temporary Sub-Decking: - 11 X (100) STRAHNET Highway Designation: 0 11 X X (101) Parallel Highway System of the Inventory 0 11 X X (101) Parallel Highway System of the Inventory 0 11 X	SR 10 (12) Base Highway Network: 0 12 (13A) LRS Inventory Route: 1 18 (13B) Subroute Number: 0 16.130 (42) Type of Service: On 5 Under 0 16.130 (42) Type of Service: On 5 Under 0 16000 (19) Bypass Detour Length: 2 3 (16) Latitude at Rear Abutment: 41.487378 HOPE MEMORIAL/LORAIN CARNEGIE (17) Longitude at Rear Abutment: 41.487378 1 (98A) Border Bridge State Code: 2 ystem): 3 (98B) Border Bridge State Code: SCUYSR00010 0 (213) NLT_D Inventory Route: SCUYSR00010 0 (214) Rairoad Identification: NN 2(21) Cangitude at Rear Abutment: 9 2 1 (98B) Border Bridge State Code: SCUYSR00010 0 (213) NLT_D Inventory Route: SCUYSR00010 0 (214) Rairoad Identification: NN (215) AARDOT Number: Y CUY RIVER VALLEY & FI RR (219) Temporary Sub-Decking: 0 (222) Temporary Debis Net: CUY RIVER VALLEY & FI RR (219) Temporary Sub-Decking: </td <td>SR 10 (12) Base Highway Network: 0 12 (13A) LRS Inventory Route: 1 18 (13B) Subroute Number: 1 16.130 (42) Type of Service: On 5 Under 7 N (28) Lanes: On 4 Under 0 16000 (19) Bypass Detour Length: 2 3 (16) Latitude at Rear Abutment: 41.487378 HOPE MEMORIAL/LORAIN CARNEGIE (17) Longitude at Rear Abutment: 41.696442 08 (211) Latitude at Forward Abutment: -81.696442 08 (212) Longitude at Rear Abutment: -81.696442 08 (211) Latitude at Forward Abutment: -81.696442 08 (211) Latitude at Forward Abutment: -81.696442 0980 Border Bridge State Code: SCUYSR00010**C (212) Longitude at Forward Abutment: -81.696442 00010 (213) NLF_ID Inventory Route: SCUYSR00010**C N (214) Rairoad Identification: NN VP (216) AARDOT Number: NN (215) AARDOT Number: NN (222) Temporary Stored: Y (101 VPTLE VALLEY & FI RR (219) Temporary Stored: (220) Temporary Stored: N <</td>	SR 10 (12) Base Highway Network: 0 12 (13A) LRS Inventory Route: 1 18 (13B) Subroute Number: 1 16.130 (42) Type of Service: On 5 Under 7 N (28) Lanes: On 4 Under 0 16000 (19) Bypass Detour Length: 2 3 (16) Latitude at Rear Abutment: 41.487378 HOPE MEMORIAL/LORAIN CARNEGIE (17) Longitude at Rear Abutment: 41.696442 08 (211) Latitude at Forward Abutment: -81.696442 08 (212) Longitude at Rear Abutment: -81.696442 08 (211) Latitude at Forward Abutment: -81.696442 08 (211) Latitude at Forward Abutment: -81.696442 0980 Border Bridge State Code: SCUYSR00010**C (212) Longitude at Forward Abutment: -81.696442 00010 (213) NLF_ID Inventory Route: SCUYSR00010**C N (214) Rairoad Identification: NN VP (216) AARDOT Number: NN (215) AARDOT Number: NN (222) Temporary Stored: Y (101 VPTLE VALLEY & FI RR (219) Temporary Stored: (220) Temporary Stored: N <

STATE OF OHIO DEPARTMENT OF TRANSPORTATION IDENTIFICATION

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

Date Built: 7/1/1932 SR 10 over CUY RIVER VALLEY & FI RR

		SIGNS &	UTILITIES:			
(265) Electric Line:	U	(272) Total Length:	ft.	(279) Signs on Bridge:	Y	
(266) Gas Line:	Y	(273) Total Length:	ft.	(280) Signs Supports, Total	15	each
(267) Telephone Line:	U	(274) Total Length:	ft.	(281) Signs Under Bridge:	Ν	
(268) TV Cable Bridge:	U	(275) Total Length:	ft.	(282) Warning/Regulatory Sigr	IS	
(269) Sanitary Sewer:	U	(276) Total Length:	ft.	(283) Lighting:	Y	
(270) Water Line:	U	(277) Total Length:	ft.			
(271) Other Utilities:	U	(278) Total Length:	ft.			

S	TATE OF OHIO DEPARTI GEO	MENT OF TRANS METRIC	PORTATION	
Structure File Number: 1801503	Inventory Bridge Number: CUY 00	0010 16.130 N Bridg	je Type: 3 - STEEL/4 - TRUSS/3 - D	ECK
Sufficiency Rating: 48.4	Date Built: 7/1/193	2		
District: 12 Place Code (FIPS): CLEV	ELAND SR 10 over CUY	RIVER VALLEY & FI RR	Type of Service on: HIGHWAY-PE	DESTRIAN
(34) Skew: 0	GEOME deg.	TRIC DATA (300) Skew Direct	ion: 3	
(35) Structure Flared: 1		(301) Horizontal C	Surve:	deg/min
	SPA	N DATA		
(305) Total Span Length:	ft.	(45) No. of Main S	pans: 15	
(48) Longest Span: 2	299 ft.	(46) No. of Approa	ach Spans: 5	

ft.

ft.

(112) NBIS Bridge:

Y

(306) NBIS Bridge Length:

(307) Total Number of Spans: 0

(49) Structure Length:

3657.333

3657.333

STATE OF OHIO DEPARTMENT OF TRANSPORTATION CLEARANCES

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N Date Built: 7/1/1932 Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

SR 10 over CUY RIVER VALLEY & FI RR

UNDER	R CLEARANCES	
(325) Minimum Horizontal Clearance Under, Cardinal:	0	ft.
(326) Minimum Horizontal Clearance Under, Non-Cardinal:	0	ft.
(54) Minimum Vertical Clearance Under, Cardinal:	R 0	ft.
(327) Minimum Vertical Clearance Under, Non-Cardinal:	0	ft.
(328) Pratical Maximum Vertical Clearance Under Bridge:	0	ft.
(55) Minimum Lateral Clearance Under Right, Cardinal:	R 99.99	ft.
(329) Minimum Lateral Clearance Under Right, Non-Cardina	l: 0	ft.
(56) Minimum Lateral Clearance Under Left, Cardinal:	99.99	ft.
(330) Minimum Lateral Clearance Under Left, Non-Cardinal:	0	ft.
ON C	LEARANCES	
(47) Minimum Horizontal Clearance On, Cardinal:	60	ft.
(335) Minimum Horizontal Clearance On, Non-Cardinal:	0	ft.
(10) Minimum Vertical Clearance On, Cardinal:	99.99	ft.
(336) Minimum Vertical Clearance On, Non-Cardinal:	0	ft.
(53) Pratical Maximum Vertical Clearance On Bridge:	99.99	ft.
(337) Minimum Lateral Clearance On Right, Cardinal:	1.333	ft.
(338) Minimum Lateral Clearance On Right, Non-Cardinal:	0	ft.
(339) Minimum Lateral Clearance On Left, Cardinal:	1.583	ft.
(340) Minimum Lateral Clearance On Left, Non-Cardinal:	0	ft.
RAMP	CLEARANCES	
(345) Ramp Lateral Clearance Left Under, Cardinal:	0	ft.
(346) Ramp Lateral Clearance Left Under, Non-Cardinal:	0	ft.
(347) Ramp Lateral Clearance Right Under, Cardinal:	0	ft.
(348) Ramp Lateral Clearance Right Under, Non-Cardinal:	0	ft.
(349) Ramp Roadway Width, Cardinal:	0	ft.
(350) Ramp Roadway Width, Non-Cardinal:	0	ft.
(351) Ramp Vertical Clearance Under, Cardinal:	0	ft.
(352) Ramp Vertical Clearance Under, Non-Cardinal:	0	ft.

STATE OF OHIO DEPARTMENT OF TRANSPORTATION INTERSECTED ROUTES

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

Date Built: 7/1/1932 SR 10 over CUY RIVER VALLEY & FI RR

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

DECK

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N Date Built: 7/1/1932 Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

SR 10 over CUY RIVER VALLEY & FI RR

		DECK	AND	AP	PROACH		
(36C) Approach Guardrail:	1				(107) Deck Structure Type:	1	
(36D) Approach Guardrail Terminal:	1				(411) Deck Concrete Type:	U	
(400) Approach Guardrail Length:				ft.	(412) Deck Flared	Υ	
(401) Approach Guardrail Type:	0				(413) Embankment, Total Length:	4	ft.
(402) Approach Guardrail Grade:	1				(108B) External Deck Protection:	2	
(403) Approach Pavement Wearing Surface Type:	2				(108C) Internal Deck Protection:	1	
(72) Approach Roadway Alignment:	7				(414) Expansion Joint Type:	0	
(32) Approach Rdwy Width:	60			ft.	(415) Expansion Joints Total Length:		ft.
(404) Approach Slab Type:	1				(416) Joint Retro Fit Type, Joint 1:	Ν	
(405) Approach Slab Length:	0			ft.	(417) Expansion Joint W/Through Retrofit 1:		
(36B) Approach Guardrail Transitions:	1				(418) Joint Retro Fit Type, Joint 2:	Ν	
(33) Bridge Median:	Ν				(419) Expansion Joint W/Through Retrofit 2:		
(406) Bridge Median Type:	Ν	Ν	Ν		(420) Joint Retro Fit Type, Joint 3:	Ν	
(36A) Bridge Railings:	1				(421) Expansion Joint W/Through Retrofit 3:		
(407) Bridge Railing Type:	5				(422) Wearing Surface Date:	09/01/2001	
(51) Bridge Rdwy Width Curb-Curb:	60			ft.	(108A) Wearing Surface Type:	С	
(408) Composite Deck Code:	Y				(423) Wearing Surface Thickness:	1.5	in.
(409) Deck Drainage Type:	3				(424) Deck Area:	303556	sq ft.
(410) Deck Drainage Total Count:					(425) Other Feature:	Ν	
(52) Deck Width Out-Out:	83			ft.	(426) Bridge Railing Steel:		
		CL	JRB/S	IDE	WALK		
(427) Curb/Sidewalk Left Side - Material:	1				(429) Curb/Sidewalk Right Side - Material:	1	
(428) Curb/Sidewalk Left Side - Type:	2				(430) Curb/Sidewalk Right Side - Type:	2	
(50A) Curb/Sidewalk Left Side - Width:	6.7			ft.	(50B) Curb/Sidewalk Right Side - Width:	6.7	ft.
			FEN		IG		
(431) Fence:	Ν				(434) Noise Barrier Walls:	Ν	
(432) Fence Height on Bridge:	0			ft.	(435) Noise Barrier Walls Type:		
(433) Glare Screen:	Ν				(436) Splash Guard:	Ν	

STATE OF OHIO DEPARTMENT OF TRANSPORTATION SUPERSTRUCTURE

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N Date Built: 7/1/1932

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

SR 10 over CUY RIVER VALLEY & FI RR

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

	S	UPERS	TRUCTURE		
(450) Arch Columns or Hangers, Count:			(475) Main Member Type:	1	
(451) Arch Length:		ft.	(476) Main Member Depth:	0	ft.
(452) Arch, Spandrel Walls Area:		sq ft	(477) Moment Plates Type:	Ν	
(453) Bearing Device 1, Type:	1		(478) Post Tensioned Main Member Code:	Ν	
(454) Bearing Device 1, Total Count:		each	(479) Post Tensioned Elem: Box Segment. Ext	Count:	each
(455) Bearing Device 2, Type:	Ν		(480) Post Tensioned Elem: Box Segment. Int C	Count:	each
(456) Bearing Device 2, Total Count:		each	(481) Post Tensioned Elem: Ext Tendon Co	ount:	each
(457) Bearing Device 3, Type:			(482) Protective Coating System Type:	5	
(458) Bearing Device 3, Total Count:		each	(483) Protective Coating System Date:	03/04/2004	
(459) Catwalk:	Υ		(484) Protective Coating System Supplier:		
(460) Diaphragms, Cross Frames, Total Count:	55	each	(485) Spandrel Walls Total Length:		ft.
(461) End Blocks & End Dams, Total Count:		each	(486) Stringers Length:		ft.
(462) Floor Beams Size:			(487) Structural Member Steel Type:	U	
(463) Floor Beams Total Length:		ft.	(488) Structural Steel Pay Weight:	26000000	lbs.
(464) Floor Beams, Maximum Spacing:		ft.	(489) Joists/Stringers Total Length:		ft.
(465) Framing Type:	Ν		(490) Diagonals Member Count:	506	
(466) Haunched Girder:	Ν		(491) End Posts Member Count:		each
(467) Haunched Girder Depth:	0	ft.	(492) Lower Chord Member Count:	522	each
(468) Hinges/Pins/Hangers Type:	2		(493) Sway/Portal Bracing Member Count:		each
(469) Hinges/Pins/Hangers Total Count:	192	each	(494) Upper and Lower Lateral Bracing Member	Count: 240	each
(470) Main Beam Lines Total Count:		each	(495) Upper Chords Member Count:	522	each
(471) Main Beam Size:			(496) Verticals Member Count:	529	each
(472) Main Beam Spacing:		ft.	(497) Gusset Plates, Total Count:	2116	each
(473) Main Beam Total Length:		ft.	(498) Protective Coating System Surface A	rea: 0	sq ft.
(474) Main Structure System:	7		(499) Structural Steel Paint:	U	

STATE OF OHIO DEPARTMENT OF TRANSPORTATION SUBSTRUCTURE

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N Date Built: 7/1/1932 Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

SR 10 over CUY RIVER VALLEY & FI RR

	SUE	STRU	CTURE		
(525) Abutment Columns or Bents, Total Count:			(539) Pier 2 Type - Foundation Type:	0	
(526) Abutment Forward Type:	3		(540) Pier 3 Type:	5	
(527) Abutment Forward Material Type:	2		(541) Pier 3 Material:	2	
(528) Abutment Forward - Foundation Type:	4		(542) Pier 3 Type - Foundation Type:	0	
(529) Abutment Foundation, Average Length:	: 0	ft.	(543) Pier Columns/Bents, Total Count:		
(530) Abutment Pile Load Testing:			(544) Pier Foundation, Average Length:	0	ft.
(531) Abutment Rear Type:	2		(545) Pier, Total Count:	15	
(532) Abutment Rear Material Type:	2		(546) Pile Log:	Ν	
(533) Abutment Rear - Foundation Type:	4		(547) Slope Protection Type:	3	
(534) Pier 1 (Predominate) Type:	4		(548) Wingwalls, Total Length:		ft.
(535) Pier 1 (Predominate) Material:	2		(549) Protective Coating System-Major:		
(536) Pier 1 Type - Foundation Type:	4		(550) Protective Coating System-Major Date:		
(537) Pier 2 Type:	5		(551) Protective Coating System-Minor:		
(538) Pier 2 Material:	5		(552) Protective Coating System-Minor	Date:	

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

CULVERT

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N Date Built: 7/1/1932 Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

SR 10 over CUY RIVER VALLEY & FI RR

		CULVER	г	
(575) Bridge/Culvert Type:	Ν		(585) Number of Cells:	
(576) Culvert Headwall Area:		sq ft	(586) Outlet End Treatment:	
(577) Culvert Headwalls or Endwalls, Leng	gth:	ft.	(587) Rise:	in.
(578) Culvert Length Inlet_to_Outlet:	0	ft.	(588) Shape:	
(579) Culvert Seams Total Count:			(589) Slope of Pipe:	%
(580) Fill Depth Over Culvert:	0	ft.	(590) Wall Thickness:	in.
(581) Gage:		no.	(591) Modification Type:	
(582) Headwalls or Endwalls Type:	Ν		(592) Modification Material Type:	
(583) Inlet End Treatment:			(593) Modification Size:	in.
(584) Material:		in.	(594) Year Modified:	
	E	EXTENSION -	INLET	
(600) Inlet Extension Length:		ft.	(604) Inlet Extension Year:	
(601) Inlet Extension Material Type:			(605) Inlet Rise:	in.
(602) Inlet Extension Shape:			(606) Inlet Gage:	no.
(603) Inlet Extension Span Length:		ft.	(607) Inlet Wall Thickness:	in.
	E	XTENSION - C	DUTLET	
(610) Outlet Extension Length:		ft.	(614) Outlet Extension Year:	
(611) Outlet Extension Material Type:			(615) Outlet Rise:	in.
(612) Outlet Extension Shape:			(616) Outlet Gage:	no.
(613) Outlet Extension Span Length:		ft.	(617) Outlet Wall Thickness:	in.

STA			MENT OF TRANS	PORTATION		
Structure File Number: 1801503	Inventory Brid	lge Number: CUY		e Type: 3 - STEEL/4	I - TRUSS/3 - DE	CK
Sufficiency Rating: 48.4		Date Built: 7/1/19	932			
District: 12 Place Code (FIPS): CLEVELA	ND	SR 10 over CL	JY RIVER VALLEY & FI RR	Type of Service or	n: HIGHWAY-PED	ESTRIAN
		NAVIG	ATION DATA			
(38) Navigation Control:	1		(39) Navigation Vertical Clearance:		95	ft.
(650) Navigation LIghts, Total Cou	int: 6		(40) Navigation Horizo	ntal Clearance:	185	ft.
(111) Pier Protection:			(116) Minimum Navigation		0	ft.
(651) Scenic River:	Ν		Vertical Clearance, Ve	rtical Lift Bridge:		
		WA	TERWAY			
(655) Channel Protection Type:	4		(113) Scour Critical Bri	dge:	8	
(656) Channel Protection, Total Le	ength:	ft.	(661) Slope Protection	, Total Length:	.1	ft.
(657) Drainage Area:		sq mi	(662) Hydraulic Openir	ng Area:		sq ft
(658) Flow Volume:		CFS	(663) Stream Velocity:		5.6	fps
(659) Flow Year:			(664) Water Flow Direc	ction:	L	

ft.

HYDROLOGY/HYDRAULICS

(672) pH:

(71) Waterway Adequacy:

(673) Culvert Channel Protection (Outlet):

(660) Culvert Scour Length:

(670) Abrasive Conditions:

(671) Culvert Channel Protection (Inlet):

8

STATE OF OHIO DEPARTMENT OF TRANSPORTATION LOAD RATING

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

Date Built: 7/1/1932

SR 10 over CUY RIVER VALLEY & FI RR

Type of Service on: HIGHWAY-PEDESTRIAN

	LOAD	RATING	
(31) Design Load:	4 - H20	(703) Inventory Rating Load GVW:	tons
(63) Operating Rating Method:	6 - Load Factor (LF) rating reported by RF using HS20 loading	(704) Load Rating Date:	7/1/2012
(64) Operating Rating Factor:	0.980	(705) Load Rater First Name:	WESLEY
(700) Operating Rating Load:	2 - HS20 Loading	(706) Load Rater Last Name:	WEIR
(701) Operating Rating Load G	VW: tons	(707) Load Rater Ohio PE Number:	69991
(65) Inventory Rating Method:	6 - Load Factor (LF) rating reported by RF using HS20 loading	(708) Load Rating Software:	7 - Combination
(66) Inventory Rating Factor:	0.590	(709) Rating Source: 1 - Plan information available	le for load rating analysis (Default)
(702) Inventory Rating Load:	2 - HS20 Loading	(711) Live Load Response:	S - Satisfactory
(41) Open, Posted or Closed:	A - OPEN, NO RESTRICTION		
	OHIO LEC	GAL LOADS	
(715) Ohio Legal Load 1:	2F1	(724) Ohio Legal Load 4:	
(716) Ohio Legal Load 1 GVW:	15.000 tons	(725) Ohio Legal Load 4 GVW:	40.000 tons
(717) Ohio Legal Load 1 Rating	g Factor:	(726) Ohio Legal Load 4 Rating Factor:	
(718) Ohio Legal Load 2:	3F1	(727) Ohio Legal Load 5:	
(719) Ohio Legal Load 2 GVW:	23.000 tons	(728) Ohio Legal Load 5 GVW:	tons
(720) Ohio Legal Load 2 Rating	g Factor:	(729) Ohio Legal Load 5 Rating Factor:	
(721) Ohio Legal Load 3:	4F1	(730) Ohio Legal Load 6:	
(722) Ohio Legal Load 3 GVW:	27.000 tons	(731) Ohio Legal Load 6 GVW:	
(723) Ohio Legal Load 3 Rating	g Factor:	(732) Ohio Legal Load 6 Rating Factor:	
(70) Bridge Posting:	5 - Equal to or above legal loads	(733) Posting Required by Rating:	
		(734) Ohio Percent Legal:	150 %

Governing Member(s)

STATE OF C	-	ENT OF TRANSPORTATION PLEX	
Structure File Number: 1801503 Inventory Br	dge Number: CUY 000		ECK
Sufficiency Rating: 48.4	Date Built: 7/1/1932		
District: 12 Place Code (FIPS): CLEVELAND	SR 10 over CUY R	IVER VALLEY & FI RR Type of Service on: HIGHWAY-PE	DESTRIAN
	CABLES	STAYED	
(750) Anchorage/Saddle at Tower, Total Count:	each	(753) Delta Frames, Total Count:	each
(751) Back Span Anchorage, Total Count:	each	(754) Stay Cable, Total Count:	each
(752) Dampeners, Total Count:	each	(755) Wind Ties, Total Count:	each
	MOVE	ABLE	
(760) Auxiliary Engines, Total Count:	each	(769) Limit Switches, Total Count:	each
(761) Bearings, Total Count:	each	(770) Shafts, Total Count:	each
(762) Brackets, Total Count:	each	(771) Sockets, Total Count:	each
(763) Buffers, Total Count:	each	(772) Span Balance, Total Count:	each
(764) Center Locks, Total Count:	each	(773) Tail Locks, Total Count:	each
(765) Circuit Breakers, Total Count:	each	(774) Traffic Gages/Lights, Total Count:	each
(766) Electric Motors, Total Count:	each	(775) Transformers, Total Count:	each
(767) Gears, Total Count:	each	(776) Movable: Wire Ropes, Total Count:	each
(768) General Operation, Total Count:	each		
	SUSPE	NSION	
(780) Anchorage, Total Count:	each	(784) Suspender Connections, Total Count:	each
(781) Bent Posts, Total Count:	each	(785) Suspenders, Total Count:	each
(782) Cable Bands, Total Count:	each	(786) Tower Saddles, Total Count:	each
(783) Main Cables, Total Count:	each	(787) Towers, Total Length:	ft.

STA	ATE OF OHIO DEP	ARTMENT OF TR	RANSPORTATION
Structure File Number: 1801503	Inventory Bridge Number:		Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK
Sufficiency Rating: 48.4	Date Built:	7/1/1932	
District: 12 Place Code (FIPS): CLEVEL	AND SR 10 o	ver CUY RIVER VALLEY &	FI RR Type of Service on: HIGHWAY-PEDESTRIAN
	HIS	TORICAL BRIDGE	
825) Historical Bridge Name:			
826) NR Recommendation:	(827) Historica	l Year Built: 1932	(828) Historical Bridge Type: 325
829) Previous Inventory/Date: 19	81 (830) Historica	l Owner:	(831) Historical Builder: 249
832) Previous NR Status: Y	(833) Score:		
834) Reviewed By:			
37) Historical Significance Code:	4		
835) Level of Significance Code:	2		
836) Historical Data Source:	014	(837) Histo	prical District:
838) Historical Review Date:	2/1/2008	(839) Histo	prical Standard ODOT Design: N
840) Historical National Register	Listed:		
(841) Historical Bridge/Designer:	176		
(842) Historical Setting/Context:			

The bridge carries a 4-lane arterial street over the valley from the Flats into downtown Cleveland in the area of the stadium and former industrial buildings. It is a gateway to the center of the city.

(843) Historical Physical Description:

The main spans of the Lorain-Carnegie Bridge consist of 14 cantilever deck trusses ranging in length from 132' to 299'. The bridge is double deck, but the lower deck designed for rapid transit was never used. The bridge has decorative sandstone archite

(844) Historical Integrity:

Rehabilitation, 2001.

(845) Historical Significant Description:

The Lorain-Carnegie Bridge is NR-listed (1976). The bridge was rehabilitated without adverse effect in 2001. When completed in 1932, the Lorain-Carnegie High Level Bridge provided a third high-level connection between Cleveland's downtown and the west

(846) Historical Bridge Remarks:

CUY-10-16.13 PID19425. Rehabilitation 2001.

MANAGEMENT PLAN

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE HISTORY

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

Date Built: 7/1/1932 SR 10 over CUY RIVER VALLEY & FI RR

Type of Service on: HIGHWAY-PEDESTRIAN

(850) In Management Plan (2009): N

(851) Historical Management Plan Substructure:

(852) Historical Management Plan Superstructure:

(853) Historical Management Summary:

PRESERVATION

(860) Justification:

(861) Prudent and Feasible to Leave Bridge in Place?:

(862) Preservation Potential:

(863) Preservation Summary:

(864) No Build Alternative Consideration:

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE HISTORY

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

Date Built: 7/1/1932

SR 10 over CUY RIVER VALLEY & FI RR

Type of Service on: HIGHWAY-PEDESTRIAN

(865) Historic Bypass Information:

(866) Other Preservation Options:

(867) Preservation Recommendation:

(868) Comment Recommendation:

(869) Comment Date:

(870) Plan Comment:

	STA		DEPARTMEI PPROACH IN		SPORTATION
Structure File Number:	1801503	Inventory Bridge Nu			idge Type: 3 - STEEL/4 - TRUSS/3 - DECK
Sufficiency Rating:			Built: 7/1/1932		
District: 12 Place Code			SR 10 over CUY RIVE	ER VALLEY & FI RR	Type of Service on: HIGHWAY-PEDESTRIAN
APPROACH					
(c6) Approach Sum	mary:	7			Recommended: 9
c1. Approach Wear	ing Surface (I	EA)			
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
2	2	0	0	0	1.00
East approach pavemer	nt in good condition	on. West approach pa	avement has about	20% spalls, patche	es, or cracks.
c2. Approach Slabs	s (SF)				
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
2075	1971	104	0	0	1.07
No signs of settlement o	r shifting.				
c4. Embankment (E	EA)				
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
4	4	0	0	0	1.00
c5. Guardrail (EA)					
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
4.0	4	0	0	0	1.00
Minor surface spalling a	nd staining.				

STATE OF OHIO DEPARTMENT OF TRANSPORTATION APPROACH INSPECTION PHOTOS

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

Date Built: 7/1/1932

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

SR 10 over CUY RIVER VALLEY & FI RR T

	STAT	e of ohio			ISPORTATION
Structure File Number	· 1801503 Inv	entory Bridge N	DECK INSP umber: CUY 00010		ridge Type: 3 - STEEL/4 - TRUSS/3 - DECK
Sufficiency Rating			e Built: 7/1/1932	10.10010 0	nage type. 5 Stelly incodes block
District: 12 Place Code			SR 10 over CUY RIVE	ER VALLEY & FI RR	Type of Service on: HIGHWAY-PEDESTRIAN
DECK					
(58) NBIS Deck Su	immary:	6			Recommended: 9
c7.1 Floor/Slab (S	F)				
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
263774	261374	1200	1200	0	1.08
					vier distress adjacent to ist inhibitor and still show
Large spalled areas in deterioration at expans		bach tunnel. Cons	secutive transverse	bars broken in Eas	st Subway. Heavy
c7.2 Edge of Floor	r/Slab (LF)				
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
6415	6094	321	0	0	1.07
Isolated spalls through	out, cracking adjacen	t to expansion joi	ints and floorbeam e	extensions.	
c8. Wearing Surfa	ce (SF)				
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
178959.0	170011	8948	0	0	1.07
Overall good condition	. Few hairline cracks,	evidence of very	isolated ponding.		
c9. Curb/Sidewalk	/Walkway (LF)				
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
7018	6948	70	0	0	1.01
	e deterioration. Area				cracking with moisture. areas. Steel curb shows
c11. Railing (LF)					
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
7018	1404	5614	0	0	1.86

Stained cracks in concentrated in the lower third of the entire inside lengths of the exterior parapets. Bikeway railing is in good condition throughout.

c12. Drainage (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0.00	27	1.0	0	0	1.05

Minor debris in deck scuppers.

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DECK INSPECTION

Structure File Number: 1801503 Inventory Bridge Number: CUY 00010 16.130 N Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

Date Built: 7/1/1932

District: 12 Place Code (FIPS): CLEVELAND

SR 10 over CUY RIVER VALLEY & FI RR

Type of Service on: HIGHWAY-PEDESTRIAN

DECK

c13. Expansion Joint (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0.00	1419	75	0	0	1.07

Evidence of leakage through joint membranes. Deck armor in good condition and level with wearing surface.

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DECK INSPECTION PHOTOS

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

Date Built: 7/1/1932

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

SR 10 over CUY RIVER VALLEY & FI RR Typ

	STA		DEPARTME RSTRUCTUF	-	ISPORTATION ON	
Structure File Numbe	r: 1801503	Inventory Bridge N			idge Type: 3 - STEEL/4 - TRUSS/3	DECK
Sufficiency Rating	g: 48.4	Date	e Built: 7/1/1932			
District: 12 Place Coo	de (FIPS): CLEVELA	ND	SR 10 over CUY RIV	ER VALLEY & FI RR	Type of Service on: HIGHWAY-	PEDESTRIAN
SUPERSTRUC	TURE					
(59) NBIS Superst	tructure Summa	ry: 4			Recommended: 6	
c14. Alignment (E	EA)					
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating	
17	17	0	0	0	1.00	
c15.1 Beams/Girc	lers (LF)					
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating	
1207.0	1207	0	0	0	1.00	
c16. Diaphragm/C	Cross Frames (E	A)				
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating	
55	55	0	0	0	1.00	
c17. Stringers (LF	=)					
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating	
36709	33038	3671	0	0	1.14	
Very isolated instance	es of corrosion at flo	orbeam connections	s. Minor web loss in	areas, isolated thro	ough holes.	
c18. Floorbeams	(LF)					
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating	
11218	10318	900	0	0	1.12	
Most distress including	g staining and mino	r section loss conce	ntrated at deck exp	ansion joints.		
c19. Truss Vertica	als (EA)					
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating	
529	501	28.0	0	0	1.08	
The verticals are gene NE U10L10 has 50% both flange angles.					w deck joints. In Span 1, 10 has deep pitting to	
c20. Truss Diago	nals (EA)					
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating	

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
Inspection Date:	10/10/2015		Page 4		Reviewed Date: 01/30/2016

STATE OF OHIO DEPARTMENT OF TRANSPORTATION SUPERSTRUCTURE INSPECTION								
Structure File Number: 18	301503 Inve	ntory Bridge Num	nber: CUY 00010	16.130 N E	Bridge Type: 3 - STEEL/4 - ⁻	FRUSS/3 - DECK		
Sufficiency Rating: 48	3.4	Date I	Built: 7/1/1932					
District: 12 Place Code (F	IPS): CLEVELAND	SF	R 10 over CUY RIVE	R VALLEY & FI RF	R Type of Service on:	HIGHWAY-PEDESTRIAN		
SUPERSTRUCTU	JRE							
506.00	481	25	0	0	1.07			
The diagonals are in good condition, with active pack rust common to the exterior corners of the north exterior and south exterior diagonals adjacent to abandoned utility supports have remnants of a bracket welded to it web plates. Elsewhere, several diagonals have lower stay plates with deep section losses or perforations.								
c21. Truss Upper Ch	c21. Truss Upper Chord (EA)							
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating			

The top chord is in good condition with few significant findings noted. Junction box drains dripping onto the upper chord has caused light corrosion to several exterior upper chord members. At expansion joints, dirt and construction debris is present inside some upper chord connections with the verticals.

0

0

10

c22. Truss Lower Chord (EA)

522

512

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
522	465	52	5	0	1.29

The majority of the lower chord is in good condition apart from various degrees of sections loss and pack rust located between the flange angles and the web plates. Portions of the flange angles of the exterior lower chords have pockets of deep pitting or perforations. The greatest section loss generally is located in Spans 11 and 13. In these spans, twelve lower chord members have between 5% and 22% net section loss as reported by the 2014 inspection report. The chords downstream of expansion joints have significant pack rust. Specifically, the interior chords at span 9 downstream of expansion joint 4 have about 2 inches of pack rust between the upper flange angles.

There is a longitudinal crack in the top north flange angle on the south exterior lower chord in Span 12 between panel points 3 and 4 that has not grown since the previous inspection.

Four members have over 10% estimated/measured section loss. One member has a longitudinal crack in an internally redundant flange angle.

c23. Truss Gusset Plate (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
2116	1840	200	76	0	1.59

Truss gusset plates below deck joints show the most distress. Section loss is most severe at these locations but generally present everywhere. Previously documented laminar tear in the south gusset at Unit 7 lower chord Panel Point 7 shows no growth. Advanced section loss commonly occurs above the lower chord and along the edges and ends of diagonal connections. Also commonly occurring are bows along the long free edges of the gussets caused by pack rust.

The upper chord gusset plates are in good condition with little corrosion observed. Areas of heaviest corrosion occur below deck expansion joints.

The gussets at the upper chord floorbeam connections below junction box drains are pitted.

c24. Lateral Bracing (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
240	228	12			1.07

Lateral bracing gussets below deck joints have section lost and pack rust causing their corners to peel away from the lateral bracing members, especially below deck joints.

c25. Sway Bracing (EA)

1.03

		SUPE	RSTRUCTU	RE INSPECTI	ON	
Structure File Number:	1801503	Inventory Bridge N	umber: CUY 00010) 16.130 N Br	idge Type: 3 - STEEL/4 -	TRUSS/3 - DECK
Sufficiency Rating:	48.4	Dat	e Built: 7/1/1932			
District: 12 Place Code	(FIPS): CLEVEL	AND	SR 10 over CUY RIV	ER VALLEY & FI RR	Type of Service on:	HIGHWAY-PEDESTRIAN
SUPERSTRUCT	URE					
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating	
202.0	200	2	0	0	1.01	

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

The sway bracing is in good condition having only minor pack rust and corrosion at the connections to the verticals below deck joints.

c26. Bearing Devices (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
164	0	164	0	0	2.00

Debris and water accumulation in some of the truss bearings. Section loss generally occurring around the pins in the gussets that house the pin assembly.

c30. Protective Coating System (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
60961	36577	12192	12192	0	2.44

Scattered areas of peeling and bubbling, especially at expansion joints where water infiltration and active corrosion is occurring. There are several areas on the superstructure with active pack rust between gussets, web plates, angles, and lacing, with the worst areas below or downstream of deck joints.

c31. Pins/Hangers/Hinges (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
192	0	192	00	0	2.00

South interior truss line pin to zero force member is dislodged at Unit 13 lower chord Panel Point 12.

c32. Fatigue (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
60691.0	60691	0	0	0	1.00

STATE OF OHIO DEPARTMENT OF TRANSPORTATION SUPERSTRUCTURE INSPECTION PHOTOS

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N

Date Built: 7/1/1932

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

SR 10 over CUY RIVER VALLEY & FI RR

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

	STA			NT OF TRANS		
Structure File Number	: 1801503	Inventory Bridge N			▪ ge Type: 3 - STEEL/4 - T	RUSS/3 - DECK
Sufficiency Rating			e Built: 7/1/1932			
District: 12 Place Cod	e (FIPS): CLEVELA	ND	SR 10 over CUY RIV	ER VALLEY & FI RR	Type of Service on: H	IIGHWAY-PEDESTRIAN
SUBSTRUCTU	RE					
(60) NBIS Substru	cture Summary	<u>r:</u> 7			Recommended	8
c33. Abutment Wa	alls (LF)					
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating	
171	151	20	0	0	1.17	
Minimal staining and h	airline cracks in ab	utment faces.				
c35. Abutment Co	lumns/Bents (E	EA)				
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating	
0.00	0	0	0	0		
c34. Abutment Ca	ps (LF)					
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating	
0	0	0	0	0		
c38. Pier Columns	s/Bents (EA)					
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating	
70.0	65	5	0	0	1.10	
Areas of cracking/dela hole approximately 2'				Base of pier 8 north co	olumn west face has a	
Patches on pier colum	ns cracked but inta	ct.				
c36. Pier Walls (Ll	F)					
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating	
166	124	42	0	0	1.34	
c37. Pier Caps (LF	-)					
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating	
1079	539	540	0	0	1.60	
Pier caps are in good of public safety. Many of						

public safety. Many of the pier tower roofs have been removed, but those that remain show active degradation with debris accumulating below. Advise against walking on manhole lids due to casting corrosion.

Pier 9: Deep, non-structural spall not repaired in 2002 rehab present below NE Truss.

STATE OF OHIO DEPARTMENT OF TRANSPORTATION SUBSTRUCTURE INSPECTION

Structure File Number: 1801503	Inventory Bridge Number: CUY 00010 16.130 N	Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK
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Sufficiency Rating: 48.4

Date Built: 7/1/1932

District: 12 Place Code (FIPS): CLEVELAND

SR 10 over CUY RIVER VALLEY & FI RR

Type of Service on: HIGHWAY-PEDESTRIAN

SUBSTRUCTURE

c39. Backwalls (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
171	120	34	17	0	2.10

Vertical crack approximated 12'-6" in East Pylon backwall behind the north exterior truss line between the sandstone fascia and abutment concrete.

c40. Wingwalls (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
4.0	4	0	0	0	1.00

c42. Scour (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
2	2	0	.0	0	1.00

The bridge had an underwater bridge inspection on July 14, 2015 by GPI under contract with Jones-Stuckey. See Attached. They found a change in the exposure of the footing at Pier 10 (West Pier), Column D, were the exposure of the footing has advanced since the 2010 dive inspection. "The maximum vertical exposure was measured to be 3.7 feet. 9.5 horizontal feet of footing are exposed along the south side and 18 horizontal feet are exposed on the east face of the footer." No change significant change was noted at other locations. Pier 9 (East Pier), Column A shown less exposure to the footing.

Timber debris is still lodged at the northeast corner of pier 10.

c43. Slope Protection (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
1	1	0	0	0	1.00

STATE OF OHIO DEPARTMENT OF TRANSPORTATION SUBSTRUCTURE INSPECTION PHOTOS

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

Date Built: 7/1/1932 SR 10 over CUY RIVER VALLEY & FI RR

STATE OF OHIO DEPARTMENT OF TRANSPORTATION CULVERT INSPECTION

Structure File Number: 1801503 Inventory Bridge Number: CUY 00010 16.130 N Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

Date Built: 7/1/1932

SR 10 over CUY RIVER VALLEY & FI RR

Type of Service on: HIGHWAY-PEDESTRIAN

CULVERT

(62) NBIS Culvert Summary:

Ν

Recommended:

STATE OF OHIO DEPARTMENT OF TRANSPORTATION CULVERT INSPECTION PHOTOS

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N Bridge Type: 3

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

Date Built: 7/1/1932

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

SR 10 over CUY RIVER VALLEY & FI RR Type of S

	ST	ATE OF OHIO	DEPARTME		SPORTATION
Structure File Number:	1801503	Inventory Bridge Nu			lge Type: 3 - STEEL/4 - TRUSS/3 - DECK
Sufficiency Rating:	48.4		Built: 7/1/1932		
District: 12 Place Code	(FIPS): CLEVEL	AND S	R 10 over CUY RIVI	ER VALLEY & FI RR	Type of Service on: HIGHWAY-PEDESTRIAN
CHANNEL					
(61) NBIS Channel	Summary:	4			Recommended: 4
c51. Alignment (LF	;)				
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
200.00	0	200	0	0	2.00
The channel alignment Channel has sharp mea		n. Water is flowing alo	ng the south colur	nn of Pier 10 and the	north column of Pier 9.
c52. Protection (LF	-)				
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
200.00	141	0	142	0	3.00
The bulkhead protecting	g the east bank a	at Pier 9 has failed.			
c53. Hydraulic Ope	ening (EA)				
Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
2	2	0	0	0	1.00

All navigation lights are not operating. Unable to get SMS to open the Navigation Lights text field/rating section.

STATE OF OHIO DEPARTMENT OF TRANSPORTATION CHANNEL INSPECTION PHOTOS

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

Date Built: 7/1/1932

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SR 10 over CUY RIVER VALLEY & FI RR Type of Service o

51	ATE OF OTHO DEFARTMENT OF TR	ANGFURIATION							
SIGNS/UTILITIES INSPECTION									
Structure File Number: 1801503	Inventory Bridge Number: CUY 00010 16.130 N	Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK							
Sufficiency Rating: 48.4	Date Built: 7/1/1932								
District: 12 Place Code (FIPS): CLEVE	LAND SR 10 over CUY RIVER VALLEY & F	TRR Type of Service on: HIGHWAY-PEDESTRIAN							

SIGNS/UTILITIES

(41) Open, Posted or Closed: A

c55. Signs (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0.0	0				

c56. Sign Supports (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
15	15				1.00

c57. Utilities (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
9054.0	6036	3018	0	0	1.43

Gas main appears recently rehabilitated (new pedestals, rollers, restraints)

Telecom PVC conduits are damaged and cables are exposed, especially in the east tunnel

Telecom structural supports, sheds, and corrugated roofs/walls are heavily corroded. Many steel pieces are hanging or have fallen to the utility deck below.

Large spall and exposed reinforcement in base of concrete light pole on the south side of the road near Pier 2. Inspectors noted camera mounted in the north interior upper chord pointed at the utility deck.

STATE OF OHIO DEPARTMENT OF TRANSPORTATION SIGNS/UTILITIES INSPECTION PHOTOS

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

Date Built: 7/1/1932

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

SR 10 over CUY RIVER VALLEY & FI RR Type of Servi

STATE OF OHIO DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL INSPECTION

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

Date Built: 7/1/1932

SR 10 over CUY RIVER VALLEY & FI RR Type of Serv

Type of Service on: HIGHWAY-PEDESTRIAN

SUPPLEMENTAL

STATE OF OHIO DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL INSPECTION PHOTOS

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

Date Built: 7/1/1932 SR 10 over CUY RIVER VALLEY & FI RR

STATE OF OHIO DEPARTMENT OF TRANSPORTATION CRITICAL FINDINGS

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N Date Built: 7/1/1932 Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

SR 10 over CUY RIVER VALLEY & FI RR

REVIEW

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N Date Built: 7/1/1932 Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

SR 10 over CUY RIVER VALLEY & FI RR

STATE OF OHIO DEPARTMENT OF TRANSPORTATION JOINT MEASUREMENT

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

Date Built: 7/1/1932 SR 10 over CUY RIVER VALLEY & FI RR

Type of Service on: HIGHWAY-PEDESTRIAN

Date:

Joints Labeled Upstation

Inspector:

Joints Measured Longitudinal (not perpendicular to joint armor)

	Location:		Location:		Location:		Location:	
Joint No.	Temp (F)	Msmt (in)						

STATE OF OHIO DEPARTMENT OF TRANSPORTATION MOVEABLE BEARING INSPECTION

Structure File Number: 1801503 Inventory Bridge Number: CUY 00010 16.130 N Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

Date Built: 7/1/1932

District: 12 Place Code (FIPS): CLEVELAND

SR 10 over CUY RIVER VALLEY & FI RR

Type of Service on: HIGHWAY-PEDESTRIAN

Access:

Inspection Date: 10/10/2015

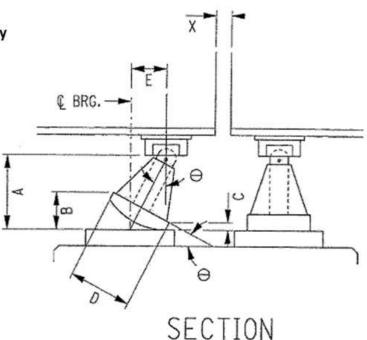
Temperature: ° F Inspector(s)

Beams labeled left to right looking up station.

Rocker Bearing Field Documentation Summary

- 1. Reference Sketch:
 - A = Height of rocker
 - B = High corner of rocker plate
 - C = Low corner of rocker plate
 - D = width of rocker plate
 - θ = Angle of rotation (tilt)
 - E = Eccentricity (translation)

X = minimum clear distance between girders or from girder to abutment



Substructure UnitBeam No.Dim "A" (in)Dim "B" (in)Dim "C" (in)Dim "X" (in)Angle "θ" (deg)Dim "E" (in)
--

STATE OF OHIO DEPARTMENT OF TRANSPORTATION CROSS CHANNEL PROFILE

SR 10 over CUY RIVER VALLEY & FI RR

Structure File Number: 1801503 Inventory Bridge Number: CUY 00010 16.130 N	Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK
--	---

Sufficiency Rating: 48.4

Date Built: 7/1/1932

Type of Service on: HIGHWAY-PEDESTRIAN

ft.

District: 12 Place Code (FIPS): CLEVELAND

Upstream or Downstream?:

The feature from which the measurements are taken (Curb, Top of Railing):

The distance between the underside of the superstructure and the reference feature labeled above:

Record the number of bents, tower legs or columns in water at the time of inspection:

and/or

Record the LINEAR FEET of Pier and Abutment Walls in water at the time of inspection:

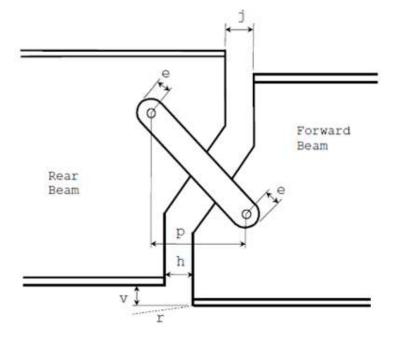
Msmt	Span	Horizontal Distance from Rear (ft)		Vertical or Profile Measurement (ft)	Commente
------	------	--	--	---	----------

PIN AND HANGER DETAILED INSPECTION FORM

		00010	-	16.130	
Co.		Rte.		SLM	
	Co.	Co.	Co. Rte.	Co. Rte.	Co. Rte. SLM

Temperature

Beams labeled left to right looking up station.



Inspection Date(s) <u>10/10/2015</u>

Inspector(s) Moellman, Mark

Beams labeled left to right looking up

- Values are in inches:
- h-horizontal at bottom of flange
- j-joint b/w armor at beam; longitudinal w/traffic
- v-vertical (+) value where fwd. beam is above, (-)below
- r-rotation transverse (+) value fwd. beam right, (-) lett
- p-pins (+) value top pin fwd. of vertical, (-) rear
- e-hanger ends from center of pin
- t-any thickness measurements (label locations on drawing)



DAMAGE

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

Date Built: 7/1/1932 SR 10 over CUY RIVER VALLEY & FI RR

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Type of Service on: HIGHWAY-PEDESTRIAN

Time:

Controlling Minimum Vertical Clearance (xx' - xx") with

location and additional pertinent information

Contacted: (ex. Owner, EMS, etc.)

Date:

Lane Closed:

Route On:

Route Under:

Lane Closed:

Documents Attached:

Accident Patrol Report

Bridge Inspection Report

Critical Findings Report

Estimate of Damage (see Tables 1 and 2 below)

Pictures

Table 1 - Damaged Main Memeber to be Heat Straightened

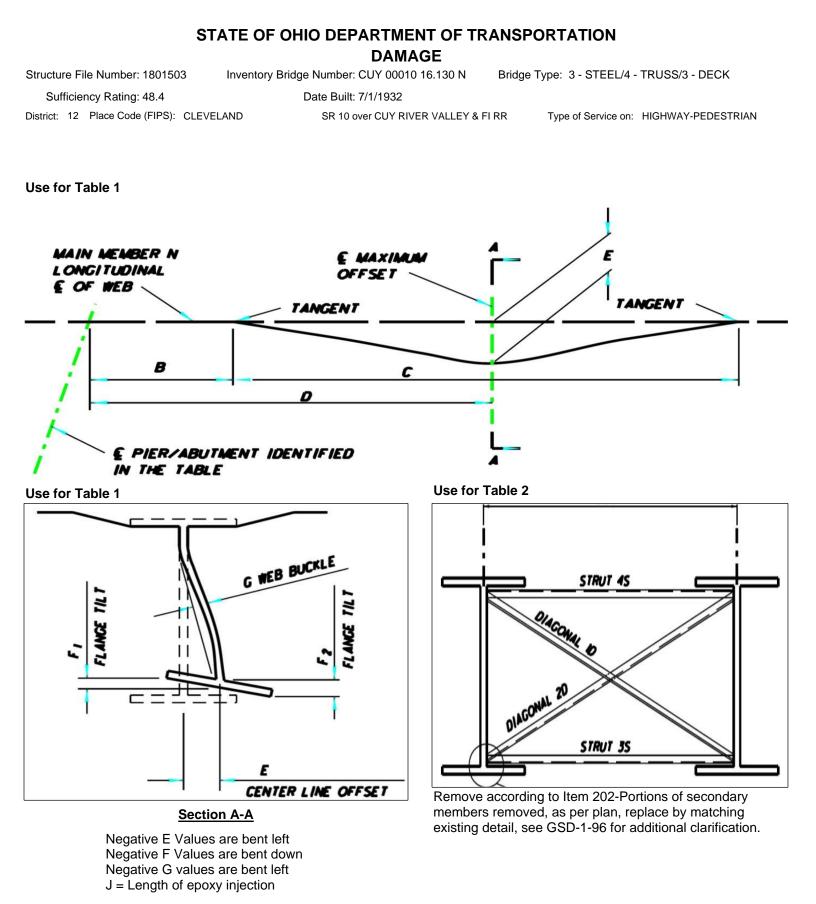
Damaged Section	Beam Number	Pier/Abut Reference	B (ft)	C (ft)	D (ft)	E (ft)	F1 (ft)	F2 (ft)	G (ft)	J (ft)	Number of Nicks & Gouges to Grind

Table 2 - Damaged Secondary Member to be replaced (i.e. crossframe)

Between Beams	Pier/Abut	N	1D	2D	3S	4S

N = Number of crossframes from abutment or pier referenced

Notes:



Inspection Date: 10/10/2015

STATE OF OHIO DEPARTMENT OF TRANSPORTATION INSPECTION PHOTOS

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

Date Built: 7/1/1932 SR 10 over CUY RIVER VALLEY & FI RR

STATE OF OHIO DEPARTMENT OF TRANSPORTATION MAINTENANCE

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N Date Built: 7/1/1932 Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4

District: 12 Place Code (FIPS): CLEVELAND

SR 10 over CUY RIVER VALLEY & FI RR

Fracture Critical Plan

Structure File Number: 1801503

Sufficiency Rating: 48.4

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Inventory Bridge Number: CUY 00010 16.130 N Date Built: 7/1/1932

District: 12 Place Code (FIPS): CLEVELAND

SR 10 over CUY RIVER VALLEY & FI RR

Type of Service on: HIGHWAY-PEDESTRIAN

Scour Critical Plan of Action

Structure File Number: 1801503

Sufficiency Rating: 48.4

Inventory Bridge Number: CUY 00010 16.130 N Date Built: 7/1/1932

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

District: 12 Place Code (FIPS): CLEVELAND

SR 10 over CUY RIVER VALLEY & FI RR

Type of Service on: HIGHWAY-PEDESTRIAN

Scour Assessment Checklist

Structure File Number: 1801503

Inventory Bridge Number: CUY 00010 16.130 N Date Built: 7/1/1932 Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Sufficiency Rating: 48.4 District: 12 Place Code (FIPS): CLEVELAND

SR 10 over CUY RIVER VALLEY & FI RR

Type of Service on: HIGHWAY-PEDESTRIAN

Drawings

Structure File Number: 1801503 Sufficiency Rating: 48.4

Date Built: 7/1/1932

Inventory Bridge Number: CUY 00010 16.130 N

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

District: 12 Place Code (FIPS): CLEVELAND

SR 10 over CUY RIVER VALLEY & FI RR

Type of Service on: HIGHWAY-PEDESTRIAN

NDT Report

Bridge Type: 3 - STEEL/4 - TRUSS/3 - DECK

Structure File Number: 1801503 Sufficiency Rating: 48.4

Date Built: 7/1/1932

Inventory Bridge Number: CUY 00010 16.130 N

District: 12 Place Code (FIPS): CLEVELAND

SR 10 over CUY RIVER VALLEY & FI RR

Type of Service on: HIGHWAY-PEDESTRIAN