

The National Bridge Inventory contains data submitted by state transportation departments to the Federal Highway Administration in coded format.  
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**Basic Information**

Ohio [39]	Preble County [135]	Twin [77994]	E OF SR 503	00-00-00 = 0.000000	000-00-00 = -0.000000
6833861	Highway agency district 8	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route #Num!	PYRMONT RD	Toll On free road [3]	Features intersected	TWIN CREEK	
Design - main	Steel [3]	Design - approach	Kilometerpoint	0 km = 0.0 mi	
1	Truss - Thru [10]	0	Year built	1904	Year reconstructed N/A [0000]
		Other [00]	Skew angle	0	Structure Flared
			Historical significance	Bridge is eligible for the NRHP. [2]	
Total length	54.9 m = 180.1 ft	Length of maximum span	52.4 m = 171.9 ft	Deck width, out-to-out	5 m = 16.4 ft
Inventory Route, Total Horizontal Clearance	4.8 m = 15.7 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft
Deck structure type	Corrugated Steel [6]				
Type of wearing surface	Bituminous [6]				
Deck protection	Galvanized Reinforcing [2]				
Type of membrane/wearing surface	Built-up [1]				

**Weight Limits**

Bypass, detour length	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	25.3 metric ton = 27.8 tons
1.3 km = 0.8 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	34.3 metric ton = 37.7 tons
Bridge posting	30.0 - 39.9 % below [1]		Design Load	M 13.5 / H 15 [2]

### Functional Details

Average Daily Traffic  Average daily truck traffi  % Year  Future average daily traffic  Year

Road classification  Lanes on structure  Approach roadway width

Type of service on bridge  Direction of traffic  Bridge median

Parallel structure designation

Type of service under bridge  Lanes under structure  Navigation control

Navigation vertical clearanc  Navigation horizontal clearance

Minimum navigation vertical clearance, vertical lift bridge  Minimum vertical clearance over bridge roadway

Minimum lateral underclearance reference feature

Minimum lateral underclearance on right  Minimum lateral underclearance on left

Minimum Vertical Underclearance  Minimum vertical underclearance reference feature

Appraisal ratings - underclearances

### Repair and Replacement Plans

Type of work to be performed

Work done by

Bridge improvement cost  Roadway improvement cost

Length of structure improvement  Total project cost

Year of improvement cost estimate

Border bridge - state  Border bridge - percent responsibility of other state

Border bridge - structure number

## Inspection and Sufficiency

Structure status	Posted for load [P]	Appraisal ratings - structural	Basically intolerable requiring high priority of corrective action [3]
Condition ratings - superstructure	Serious [3]	Appraisal ratings - roadway alignment	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of corrective action [3]
Condition ratings - deck	Very Good [8]		
Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]		
Channel and channel protection	There are no noticeable or noteworthy deficiencies which affect the condition of the channel. [9]		
Appraisal ratings - water adequacy	Meets minimum tolerable limits to be left in place as is [4]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	26.7
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions			
Traffic safety features - approach guardrail			
Traffic safety features - approach guardrail ends			
Inspection date	August 2010 [0810]	Designated inspection frequency	12 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	August 2010 [0810]
Other special inspection	Not needed [N]	Other special inspection date	

Unit of Measure: **English**  
Structure File Number **6833861**  
Sufficiency Rating: **36.3 fo**

**Bridge Inventory Information**  
Inventory Bridge Number: **PRE T0453 0195**  
**ON TWIN CREEK**

Report Date **02/27/2013** **BM-191** Page: 1 of 2  
**BR. Type STEEL / TRUSS / THRU**  
Date of Last Inventory Update: **11/21/2012**

District: **08** County **PREBLE** (101) Location: **E OF SR 503** (102) Facility Carried: **PYRMONT RD**  
(2) FIPS Code: **TWIN TWP** (103) Route On Bridge: **TOWNSHIP** (104) Route Under Bridge: **NON-HIGHWAY**  
(9) Direction of Traffic: **ONE LANE FOR 2-WAY TRAFFIC** (10) Temporary: **N** (11) Truck Network: **N** (12) Parallel: **N**  
(95) Insp: **COUNTY** (96) Maint: **COUNTY** (97) Routine: **COUNTY** (100) Type Serv: (On): **HIGHWAY** (Under): **WATERWAY**

**Inventory Route Data**  
(3) Route On/Under: **ON** Hwy Sys: **COUNTY/TOWNSHIP HIGHWAY**  
Route No.: **T0453** Dir: Des: **MAINLINE** Pref:  
(4) Feature Intersected: **TWIN CREEK**  
(5) County: **TWI** Mileage: **0195** Special Desig:  
(6) Avg. Daily Traffic(ADT): **100** (7) ADT Year: **1969**  
(8) Truck Traf: **10** (14) NHS: **NO - X** (15) Corridor: **N**  
(16) Functional Class: **LOCAL ROAD-RURAL** (19) Strahnt: **Not Applicable**

(63) Main Spans Number: 1 Type: **STEEL / TRUSS / THRU**  
Approach Spans Number: **0** Type: **NONE / NONE / NONE**  
Total Spans: 1 (65) Max Span: **172** Ft (66) Overall Leng: **180** Ft

**Intersected Route Data**  
(22) Route On/Under: Hwy Sys:  
Route No.: Dir: Des: Pref:  
(23) Feature Intersected:  
(24) County: Mileage: Special Desig:  
(25) Avg. Daily Traffic(ADT): **0** (26) ADT Year:  
(27) Truck Traf: **0** (28) NHS: - (29) Corridor:  
(30) Functional Class: (36) Strahnt: **Not Applicable**

(70) Substructure (71) Foundation and Scour Information  
Abut-Rear Matl: **STONE** Type: **GRAVITY** Fnd: **SPREAD FOOTING**  
Abut-Fwd Matl: **STONE** Type: **GRAVITY** Fnd: **SPREAD FOOTING**  
Pier-Pred Matl: **NONE** Type: **NONE** Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**  
Pier-Other Matl: **NONE** Type: **NONE** Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**  
Pier-Other Matl: **NONE** Type: **NONE** Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**  
No of Piers Predominate: **NN** Other: **NN** Other: **NN**  
(86) Stream Velocity: **UUU** (74) Scour: **STABLE: SCOUR WITHIN LIMITS OF FOOT/PILE**  
(189) Dive: **N Freq: 0** Probe: **Y Freq: 12** (75) Chan Prot: **OTHER-GRASS, BUSHES & TREES**  
(189) Date of last Dive Insp: (152) Drainage Area: **UUU** Sq Mi

**Clearance On the Bridge**  
(154) Min Hriz on Bridge: NC: **0.0** Ft Card: **15.6** Ft  
(155) Prac Max Vert On Brg: **13.3** Ft  
(67) Min Vrt Clr On Brg: NC: **0.0** Ft Card: **13.3** Ft  
(80) Min Latl Clr: NC: **0.0 / 0.0** Ft Card: **0.0 / 0.0** Ft  
(81) Vrt Clr Lft: **0.0** Ft

**Clearance Under the Bridge**  
(156) Min. Horiz Under Clear: NC: **0.0** Ft Card: **0.0** Ft  
(157) Prac Max Vrt Under Clear: **0.0** Ft  
(77) Min Vert Under Clear: NC: **0.0** Ft Card: **0.0** Ft  
(78) Min Lat Under Clear: NC: **0.0 / 0.0** Ft Card: **0.0 / 0.0** Ft

**Structure Information**  
(38) Bypass Length: **08** Miles  
(39) Latitude: **39 Deg 48.2 Min** Longitude: **84 Deg 31.8 Min**  
(40) Toll: **ON FREE ROAD**  
(41) Date Built: **07/01/1904** (42) Major Rehabilitation:  
(43) No. Lanes On: **1** No. Lanes Under: **0**  
(44) Horiz Curve: **Deg. Min.** (45) Skew: **0** Deg  
(49) App. Rdw Width: **20** Ft (50) Brg. Rdw Width: **15.6** Ft  
(51) Deck Width: **16.4** Ft Deck Area: **2949** Sq. Ft

**Load Rating Information (88-89) Appraisal**  
(48) Design Load: **HS/20** (Including calculated items)  
(83) Operating: **38** Ton  
Inventory: **28** Ton  
Ohio Percent of Legal Load **75** (88) Waterway Adequacy **4**  
Year of Rating: **2011** (89) Approach Alignment **5**  
(84) Analysis: **ALLOWABLE STRESS OR WORKING STRESS** Calc Gen Appraisal: **4**  
(85) Rate Soft: **BARS** Analyzed by: **K&K** Calc Deck Geometry: **3**  
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **N**

(52) Median Type: **NONE / NON BARRIE / NO JOINT**  
(53) Bridge Median: **NO MEDIAN**  
(54) Sidewalks: (left) **0** Ft (right) **0** Ft  
(55) Type Curb or Sidewalks:  
(Left) Matl: **NONE** Type: **NONE**  
(Right) Matl: **NONE** Type: **NONE**  
(56) Flared: **N** (57) Composite:  
(58) Railing: **OTHER**  
(59) Deck Drainage: **OVER THE SIDE (W/O DRIP STRIP)**  
(60) Deck Type: **CORRUGATED STEEL PLATE**  
(61) Deck Protection: External: **BUILT UP-TYPE D,LAYERS FIBERGLASS & TAR**  
Internal: **GALVANIZED REINFORCING**  
(62) Wearing Surface: **BITUM (ASPHLT CONCRT)**  
Thickness: **6.0** in (119) Date of Wearing Surface:  
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

**Approach Information**  
(109) Approach Guardrail: **STEEL BEAM**  
(110) Approach Pavement: **BITUMINOUS** (111) Grade: **GOOD**

**Culvert Information**  
(131) Culvert Type: **NONE/NOT APPLICBLE** (127) Length: **0.0** Ft  
(129) Depth of Fill: **0.0** Ft (130) Headwalls: **NONE**

**General Information**  
(121) Main Member **ROLLED STEEL** (122) Moment Plate: **NONE**  
(169) Expansion Joint: **SLIDING METAL PLATE ANGLE**  
(124) Bearing Devices: **ROLLERS/NONE**  
(126) Navigation: **Control- X** Vert Clr: **0.0** Ft Horiz Clear: **0.0** Ft  
(193) Spec Insp: **N** Freq: **0** Date:  
(188) Fracture Critical Insp: **Y** Freq: **24** Date: **2012-08-02**  
(138) Long Member: **TWO TRUSSES (WELDED)** (135) Hinges: **PINS AND HANGERS**  
(141) Structural Steel Memb: **UNKNOWN** (139) Framing: **NONE**  
Railing: **UNKNOWN**  
Paint: **OTHER**  
Pay Wt: **0** pounds Prime Loc: **UNKNOWN**  
Bridge Dedicated Name:

Unit of Measure: **English**  
 Structure File Number **6833861**  
 Sufficiency Rating: **36.3 fo**

**Bridge Inventory Information**  
 Inventory Bridge Number: **PRE T0453 0195**  
**ON TWIN CREEK**

Report Date **02/27/2013** **BM-191** Page: 2 of 2  
**BR. Type STEEL/TRUSS/THRU**  
 Date of Last Inventory Update: **11/21/2012**

**General Information (Continued) Original Plans Information**

(---) Hist Significance: **NON-REGISTERED HISTORIC BRIDGE** (69) NBIS: **Y**  
 (---) Hist Builder: **INDIANA BRIDGE CO (MUNCIE, IND)** Hist Build Year: **1904**  
 (69) Hist Type: **CAMELBACK (PINNED)**  
 (161) Special Features (see below):  
 (105) Border Bridge State: Resp % (106) SFN:

(142) Fabricator:  
 (143) Contractor:  
 (144) Ohio Original Construction Project No.:  
 (---) Microfilm Reel:  
 (151) Standard Drawing:  
 Aperture Cards: Orig: **N** Repair: **N** Fabr: **N**  
 Plan Information Available: **ONO PLANS OR INFORMATION AVAILABLE**

**Proposed Improvements Programming Info**

(90) Type Work: -  
 (90) Length: Ft  
 (90) Bridge Cost (\$1000s): **0**  
 (90) Roadway Cost (\$1000s): **0**  
 (90) Total Project Cost (\$1000s): **0** (90) Year:  
 (91) Future ADT (On Bridge): **0** (92) Year of Future ADT: **2033**

(153) Repair Projects  
 1. / **020** 2. / **020** 3.  
 4. 5. 6.  
 7. 8. 9.  
 10.

**Inspection Summary (I-69) Survey Items**

(I-8) Deck: <b>8</b>	Railings: <b>0 DOES NOT MEET CURRENT STANDARDS</b>
(I-32) Superstructure: <b>5</b>	Transitions: <b>0 DOES NOT MEET CURRENT STANDARDS</b>
(I-42) Substructure: <b>5</b>	Guardrail: <b>0 DOES NOT MEET CURRENT STANDARDS</b>
(I-50) Culvert:	Rail Ends: <b>0 DOES NOT MEET CURRENT STANDARDS</b>
(I-54) Channel: <b>9</b>	In Depth: <b>1 MEETS CURRENT STANDARDS</b>
(I-60) Approaches: <b>4</b>	Fracture Critical: <b>1 MEETS CURRENT STANDARDS</b>
(I-66) General Appraisal: <b>5</b>	Scour Critical: <b>N NONE N/A</b>
(I-66) Operational Status: <b>P</b>	Critical Findings: <b>N NONE N/A</b>
Inspection Date: <b>08/02/2012</b>	Insp. Update Date: <b>10/11/2012</b>
(94) Desig Insp Freq: <b>12 Months</b>	

**Utilities Special Features**

(46) Electric: <b>U</b>	(161) Lighting: <b>N</b>
Gas: <b>U</b>	Fencing: <b>N</b>
Sanitary Sewer: <b>U</b>	Glare-Screen: <b>N</b>
Telephone: <b>U</b>	Splash-Guard: <b>N</b>
TV Cable: <b>U</b>	Catwalks: <b>N</b>
Water: <b>U</b>	Other-Feat: <b>U</b>
Other: <b>U</b>	(184) Signs-on: <b>Y</b>
	Signs-Under: <b>N</b>
	(162) Fence-Ht: <b>0.0 Ft</b>
	(163) Noise Barr: <b>N</b>

SFNs Replacing this retired bridge: -  
 SFNs That where replaced by this bridge: -  
 This bridge was retired and copied to:  
 The bridge was copied from:

INV Field Bridge Marker: **PRE-T0453-0195 -**  
 INT Field Bridge Marker: **---**

**PONTIS CoRe elements and Condition States**

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5
		0						

(\*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

6	8	3	3	8	6	1
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Bridge Number **PRE T0453 0195**  
CO ROUTE UNIT

TWIN TWP

Date Built **07/01/1904**

District **08** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 15 TWIN CREEK**

**PRE**

<b>DECK</b>		Out/Out 16.4	1	THCK = 6.0		1
1. Floor	6-CORRUGATED STEEL PLATE	8	1	2. Wearing Surface	6-BITUM (ASPHLT CONCRT)	41
		N-NONE		W.S. Date =		
3. Curbs, Sidewalks, Walkways	N-NONE	9		4. Median		42
5. Railing	0-OTHER	10	4	6. Drainage	1-OVER THE SIDE (W/O DRI	43
7. Expansion Joints	2-SLIDING METAL PLATE AN	11	1	<b>8. Summary</b>		44
<b>SUPERSTRUCTURE</b>		MAX.SPAN=172	1			1
9. Alignment		12	1	10. Beams/Girders/Slab	1-ROLLED STEEL	45
		TOT.LGTH=180				1
11. Diaphragms or Crossframes		13		12. Joists/Stringers		46
13. Floor Beams		14	2	14. Floor Beam Connections		47
15. Verticals		15	3	16. Diagonals		48
17. End Posts		16	2	18. Top Chord		49
19. Lower Chord		17	1	20. Lower Lateral Bracing		50
21. Top Lateral Bracing		18		22. Sway Bracing		51
23. Portals		19	1	24. Bearing Devices	1-ROLLERS N-NONE	52
25. Arch		20		26. Arch Columns or Hangers		53
27. Spandrel Walls		21		28. Protective Coating System	TYPE = 0-OTHER DATE = 01/01/1970	54
29. Pins/Hangers/Hinges		22	2	30. Fatigue Prone Connections		55
31. Live Load Response		23	S	<b>32. Summary</b>		56
<b>SUBSTRUCTURE</b>		1-STONE	2	PIERS=0 SPANS = 1		2
33. Abutments	1-STONE	24		34. Abutment Seats		57
35. Piers	TYPE = N-NONE	25		36. Pier Seats		58
37. Backwalls		26	1	38. Wingwalls	ABUTMENT:=SPREAD / SPREAD	59
39. Fenders and Dolphins		27		40. Scour	5-STABLE: SCOUR WITHIN L	60
41. Slope Protection	N-NONE	28		<b>42. Summary</b>		62
<b>CULVERTS</b>						
43. General		29		44. Alignment		63
45. Shape		30		46. Seams		64
47. Headwalls or Endwalls		31		48. Scour		65
49.		32		50. Summary		66
<b>CHANNEL</b>				0-OTHER-GRASS, BUSHES & TREES		1
51. Alignment		33	1	52. Protection		67
53. Waterway Adequacy		34	1	<b>54. Summary</b>		68
<b>APPROACHES</b>						
55. Pavement	2-BITUMINOUS	35	3	56. Approach Slabs		69
57. Guardrail	1-STEEL BEAM	36	4	58. Relief Joints		70
59. Embankment	BRDG.WIDTH=15.6	37	1	<b>60. Summary</b>		71
<b>GENERAL</b>				ROUTINE.RESP: 3-COUNTY		1
61. Navigation Lights		38		62. Warning Signs	MAINT.RESP: 3-COUNTY	72
63. Sign Supports	MVC ON=13.3 UND=0000	39	1	64. Utilities		73
65. Vertical Clearance		40	N	<b>66. General Appraisal &amp; Operational Status</b>		74

67. INSPECTED BY

68. REVIEWED BY

SIGNED

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76 PE

R	S
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78 INITIALS

SIGNED

	7	1	2	8	8
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81 PE

R	C
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83 INITIALS

DOT 2852

DECK AREA 2,949

Date

0	8	0	2	1	2
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86

91

Date

0	0	0	0	1	1	N	N
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92

69 Survey

99

Date

1	0	1	1	1	2
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100

105

STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
**BRIDGE INSPECTION REPORT**

BR-86 REV 02-95

6	8	3	3	8	6	1
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1 Structure File Number 7

Bridge Number **PRE T0453 0195**  
CO ROUTE UNIT

**Date Built 07/01/1904**

District **08** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 15**

**TWIN CREEK**

00 NO REMARKS FOUND FOR THIS INSPECTION.

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