

The National Bridge Inventory contains data submitted by state transportation departments to the Federal Highway Administration in coded format.  
 Form Interface Design: www.historicbridges.org. Data Conversion Assistance By www.bridgehunter.com. None of the involved parties make any guarantee of accuracy.

**Basic Information**

Ohio [39]	Ashtabula County [007]	Harpersfield [33642]	.4 MI. N. OF S. RIVER RD.	41-44-44 = 41.745556	080-59-57 = - 80.999167
432474	Highway agency district 4	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route #Num!		CLYDE HILL ROAD	Toll On free road [3]	Features intersected	GRAND RIVER
Design - main	Steel [3]	Design - approach		Kilometerpoint	0 km = 0.0 mi
2	Truss - Thru [10]	0	Other [00]	Year built #Num!	Year reconstructed 2003
				Skew angle 0	Structure Flared
				Historical significance	Bridge is not eligible for the NRHP. [5]
Total length	79.2 m = 259.9 ft	Length of maximum span	39.6 m = 129.9 ft	Deck width, out-to-out	5.7 m = 18.7 ft
Inventory Route, Total Horizontal Clearance	5.1 m = 16.7 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft
Deck structure type	Wood or Timber [8]				
Type of wearing surface	Bituminous [6]				
Deck protection	Other [9]				
Type of membrane/wearing surface	Preformed Fabric [2]				

**Weight Limits**

Bypass, detour length	Method to determine inventory rating	No rating analysis performed [5]	Inventory rating	32.4 metric ton = 35.6 tons
0.6 km = 0.4 mi	Method to determine operating rating	No rating analysis performed [5]	Operating rating	32.4 metric ton = 35.6 tons
Bridge posting	Equal to or above legal loads [5]	Design Load		

### 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	<input type="text" value="Open, no restriction [A]"/>	Appraisal ratings - structural	<input type="text" value="Better than present minimum criteria [7]"/>
Condition ratings - superstructure	<input type="text" value="Good [7]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Somewhat better than minimum adequacy to tolerate being left in place as is [5]"/>
Condition ratings - substructure	<input type="text" value="Very Good [8]"/>	Appraisal ratings - deck geometry	<input type="text" value="Basically intolerable requiring high priority of corrective action [3]"/>
Condition ratings - deck	<input type="text" value="Very Good [8]"/>		
Scour	<input type="text" value="Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]"/>		
Channel and channel protection	<input type="text" value="Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition. [8]"/>		
Appraisal ratings - water adequacy	<input type="text" value="Better than present minimum criteria [7]"/>	Status evaluation	<input type="text"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="79.5"/>
Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/>		
Traffic safety features - railings	<input type="text"/>		
Traffic safety features - transitions	<input type="text"/>		
Traffic safety features - approach guardrail	<input type="text"/>		
Traffic safety features - approach guardrail ends	<input type="text"/>		
Inspection date	<input type="text" value="April 2010 [0410]"/>	Designated inspection frequency	<input type="text" value="12"/> Months
Underwater inspection	<input type="text" value="Not needed [N]"/>	Underwater inspection date	<input type="text"/>
Fracture critical inspection	<input type="text" value="Every two years [Y24]"/>	Fracture critical inspection date	<input type="text" value="April 2010 [0410]"/>
Other special inspection	<input type="text" value="Not needed [N]"/>	Other special inspection date	<input type="text"/>

Unit of Measure: **English**  
Structure File Number **0432474**  
Sufficiency Rating: **60.2 fo**

**Bridge Inventory Information**  
Inventory Bridge Number: **ATB T141A 0040**  
**ON GRAND RIVER**

Report Date **05/23/2013** BM-191 Page: 1 of 2  
**BR. Type STEEL / TRUSS / THRU**  
Date of Last Inventory Update: **05/17/2013**

District: **04** County **ASHTABULA** (101) Location: **.4 MI. N. OF S. RIVER RD.** (102) Facility Carried: **CLYDE HILL ROAD**  
(2) FIPS Code: **HARPERSFIELD TWP** (103) Route On Bridge: **TOWNSHIP** (104) Route Under Bridge: **NON-HIGHWAY**  
(9) Direction of Traffic: **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** (63) Main Spans Number: **2** Type: **STEEL / TRUSS / THRU**  
Route No.: **T141A** Dir: Des: **MAINLINE** Pref: Approach Spans Number: **0** Type: **NONE / NONE / NONE**  
Total Spans: **2** (65) Max Span: **130 Ft** (66) Overall Leng: **260 Ft**

(4) Feature Intersected: **GRAND RIVER** (70) Substructure (71) Foundation and Scour Information  
(5) County: **HRP** Mileage: **0040** Special Desig: Abut-Rear Matl: **STONE** Type: **GRAVITY** Fnd: **ROCK**  
(6) Avg. Daily Traffic(ADT): **100** (7) ADT Year: **1991** Abut-Fwd Matl: **STONE** Type: **GRAVITY** Fnd: **ROCK**  
(8) Truck Traf: **5** (14) NHS: **NO - X** (15) Corridor: **N** Pier-Pred Matl: **CONCRETE** Type: **SOLID WALL** Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**  
(16) Functional Class: **LOCAL ROAD-RURAL** (19) Strahnt: **Not Applicable** 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)**

**Intersected Route Data**  
(22) Route On/Under: Hwy Sys: No of Piers Predominate: **01** Other: **NN** Other: **NN**  
Route No.: Dir: Des: Pref: (86) Stream Velocity: **UUU** (74) Scour: **STABLE: EVAL SCOUR ABOVE TOP OF FOOTING**  
(23) Feature Intersected: (189) Dive: **N Freq: 0** Probe: **Y Freq: 12** (75) Chan Prot: **NONE**  
(24) County: Mileage: Special Desig: (189) Date of last Dive Insp: (152) Drainage Area: **UUU Sq Mi**

(25) Avg. Daily Traffic(ADT): **0** (26) ADT Year:  
(27) Truck Traf: **0** (28) NHS: - (29) Corridor:  
(30) Functional Class: (36) Strahnt: **Not Applicable**

**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**

**Clearance On the Bridge**  
(154) Min Hriz on Bridge: NC: **0.0 Ft** Card: **16.7 Ft**  
(155) Prac Max Vert On Brg: **15.0 Ft**  
(67) Min Vrt Clr On Brg: NC: **0.0 Ft** Card: **15.0 Ft**  
(80) Min Latl Clr: NC: **0.0 / 0.0 Ft** Card: **0.0 / 0.0 Ft**  
(81) Vrt Clr Lft: **0.0 Ft**

**Structure Information**  
(38) Bypass Length: **04 Miles**  
(39) Latitude: **41 Deg 44.7 Min** Longitude: **80 Deg 60.0 Min**  
(40) Toll: **ON FREE ROAD**  
(41) Date Built: **07/01/1900** (42) Major Rehabilitation: **01/01/2003**  
(43) No. Lanes On: **2** No. Lanes Under: **0**  
(44) Horiz Curve: **00 Deg. D00M Min.** (45) Skew: **0 Deg**  
(49) App. Rdw Width: **18 Ft** (50) Brg. Rdw Width: **16.7 Ft**  
(51) Deck Width: **18.7 Ft** Deck Area: **4865 Sq. Ft**  
(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: **TUBULAR BACKUP**  
(59) Deck Drainage: **OVER THE SIDE (W/O DRIP STRIP)**  
(60) Deck Type: **LAMINATED TIMBER STRIP**  
(61) Deck Protection: External: **PREFORMED FABRIC-TYPE III WATERPROOFING**  
Internal: **OTHER**  
(62) Wearing Surface: **BITUM (ASPHLT CONCRT)**  
Thickness: **2.0 in** (119) Date of Wearing Surface: **01/01/1999**  
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

**Load Rating Information** (88-89) Appraisal

(48) Design Load: **HS/20** (Including calculated Items)  
(83) Operating: **36 Ton**  
Inventory: **36 Ton**  
Ohio Percent of Legal Load **50** (88) Waterway Adequacy **8**  
Year of Rating: **2011** (89) Approach Alignment **5**  
(84) Analysis: **ALLOWABLE STRESS OR WORKING STRESS** Calc Gen Appraisal: **5**  
(85) Rate Soft: **NO SOFTWARE USED** Analyzed by: Calc Deck Geometry: **3**  
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **N**

**Approach Information**

(109) Approach Guardrail: **STEEL BEAM**  
(110) Approach Pavement: **GRAVEL** (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 **N/A (CULVERTS, TRUSSES, ETC.)** (122) Moment Plate: **NONE**  
(169) Expansion Joint: **NONE**  
(124) Bearing Devices: **OTHER/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: **2013-05-02**  
(138) Long Member: **TWO TRUSSES (RIVETED)** (135) Hinges: **NOT APPLICABLE**  
(141) Structural Steel Memb: **A36** (139) Framing: **NONE**  
Railing: **A36**  
Paint: **PAINT SYSTEM A**  
Pay Wt: **99 pounds** Prime Loc: **FIELD**  
Bridge Dedicated Name:

Unit of Measure: **English**  
 Structure File Number **0432474**  
 Sufficiency Rating: **60.2 fo**

**Bridge Inventory Information**  
 Inventory Bridge Number: **ATB T141A 0040**  
**ON GRAND RIVER**

Report Date **05/23/2013** BM-191 Page: 2 of 2  
 BR. Type **STEEL/TRUSS/THRU**  
 Date of Last Inventory Update: **05/17/2013**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: <b>NOT HISTORIC</b> (---) Hist Builder: <b>UNKNOWN</b> Hist Build Year: <b>1889</b> (69) Hist Type: <b>PRATT (PINNED)</b> (161) Special Features (see below): (105) Border Bridge State: Resp % (106) SFN:		(69) NBIS: <b>Y</b>		(142) Fabricator: (143) Contractor: (144) Ohio Original Construction Project No.: (---) Microfilm Reel: (151) Standard Drawing: Aperture Cards: Orig: <b>N</b> Repair: <b>N</b> Fabr: <b>N</b> Plan Information Available: <b>1PLAN INFORMATION AVAILABLE</b> (153) Repair Projects			
Proposed Improvements		Programming Info					
(90) Type Work: -		PID Number:		1. / <b>020</b>			
(90) Length: Ft		PID Status:		2. <b>000000 / 020</b>			
(90) Bridge Cost (\$1000s): <b>0</b>		PID Date:		3. <b>030000 / 003</b>			
(90) Roadway Cost (\$1000s): <b>0</b>				4.			
(90) Total Project Cost (\$1000s): <b>0</b>		(90) Year:		5.			
(91) Future ADT (On Bridge): <b>0</b>		(92) Year of Future ADT: <b>2033</b>		6.			
				7.			
				8.			
				9.			
				10.			
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: <b>7</b>	Railings: <b>1 MEETS CURRENT STANDARDS</b>	(46) Electric: <b>U</b>	(161) Lighting: <b>N</b>				
(I-32) Superstructure: <b>6</b>	Transitions: <b>1 MEETS CURRENT STANDARDS</b>	Gas: <b>U</b>	Fencing: <b>N</b>				
(I-42) Substructure: <b>7</b>	Guardrail: <b>1 MEETS CURRENT STANDARDS</b>	Sanitary Sewer: <b>U</b>	Glare-Screen: <b>N</b>				
(I-50) Culvert:	Rail Ends: <b>1 MEETS CURRENT STANDARDS</b>	Telephone: <b>U</b>	Splash-Guard: <b>N</b>				
(I-54) Channel: <b>8</b>	In Depth: <b>N NONE N/A</b>	TV Cable: <b>U</b>	Catwalks: <b>N</b>				
(I-60) Approaches: <b>7</b>	Fracture Critical: <b>1 MEETS CURRENT STANDARDS</b>	Water: <b>U</b>	Other-Feat: <b>U</b>				
(I-66) General Appraisal: <b>6</b>	Scour Critical: <b>N NONE N/A</b>	Other: <b>U</b>	(184) Signs-on: <b>N</b>				
(I-66) Operational Status: <b>P</b>	Critical Findings: <b>N NONE N/A</b>		Signs-Under: <b>N</b>				
Inspection Date: <b>05/02/2013</b>	Insp. Update Date: <b>05/17/2013</b>		(162) Fence-Ht: <b>0.0 Ft</b>				
(94) Desig Insp Freq: <b>12 Months</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: <b>ATB-T141A-0040 -</b>			
				INT Field Bridge Marker: <b>---</b>			

**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

0	4	3	2	4	7	4
---	---	---	---	---	---	---

Bridge Number **ATB T141A 0040**  
CO ROUTE UNIT

HARPERSFIELD TWP

Date Built **07/01/1900 - 2003**

District **04** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 15 GRAND RIVER**

**ATB**

<b>DECK</b>		Out/Out 18.7	1	THCK = 2.0		1
1. Floor	2-LAMINATED TIMBER STRIP	8	1	2. Wearing Surface	6-BITUM (ASPHLT CONCRT)	41
		N-NONE		W.S. Date = 01/01/1999		
3. Curbs, Sidewalks, Walkways		N-NONE	9	4. Median		42
5. Railing	A-TUBULAR BACKUP	10	1	6. Drainage	1-OVER THE SIDE (W/O DRI	43
7. Expansion Joints		N-NONE	11	<b>8. Summary</b>		44
<b>SUPERSTRUCTURE</b>		MAX.SPAN=130	1			
9. Alignment			12	10. Beams/Girders/Slab	N-N/A (CULVERTS, TRUSSES	45
		TOT.LGTH=260				
11. Diaphragms or Crossframes			13	12. Joists/Stringers		46
13. Floor Beams			14	14. Floor Beam Connections		47
15. Verticals			15	16. Diagonals		48
17. End Posts			16	18. Top Chord		49
19. Lower Chord			17	20. Lower Lateral Bracing		50
21. Top Lateral Bracing			18	22. Sway Bracing		51
23. Portals			19	24. Bearing Devices	0-OTHER N-NONE	52
25. Arch			20	26. Arch Columns or Hangers		53
27. Spandrel Walls			21	28. Protective Coating System	TYPE = 3-PAINT SYSTEM A DATE = 01/01/1990	54
29. Pins/Hangers/Hinges			22	30. Fatigue Prone Connections		55
31. Live Load Response			23	<b>32. Summary</b>		56
<b>SUBSTRUCTURE</b>		1-STONE	1	PIERS=1 SPANS = 2		1
33. Abutments		1-STONE	24	34. Abutment Seats		57
35. Piers		TYPE = 2-CONCRETE	25	36. Pier Seats		58
37. Backwalls			26	38. Wingwalls	ABUTMENT:=ROCK / ROCK	59
39. Fenders and Dolphins			27	40. Scour	8-STABLE: EVAL SCOUR ABO	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>						
51. Alignment			33	52. Protection	N-NONE	67
53. Waterway Adequacy			34	<b>54. Summary</b>		68
<b>APPROACHES</b>						
55. Pavement		4-GRAVEL	35	56. Approach Slabs		69
57. Guardrail		1-STEEL BEAM	36	58. Relief Joints		70
59. Embankment		BRDG.WIDTH=16.7	37	<b>60. Summary</b>		71
<b>GENERAL</b>						
61. Navigation Lights			38	62. Warning Signs	ROUTINE.RESP: 3-COUNTY MAINT.RESP: 3-COUNTY	72
63. Sign Supports		MVC ON=15.0 UND=0000	39	64. Utilities		73
65. Vertical Clearance			40	<b>66. General Appraisal &amp; Operational Status</b>		74

67. INSPECTED BY

68. REVIEWED BY

SIGNED

--	--	--	--	--	--

76 PE

R	R	A
---	---	---

78 INITIALS

SIGNED

	6	6	0	5	4
--	---	---	---	---	---

81 PE

T	G	P
---	---	---

83 INITIALS

DOT 2852

DECK AREA 4,865

Date

0	5	0	2	1	3
---	---	---	---	---	---

86

91

1	1	1	1	N	1	N	N
---	---	---	---	---	---	---	---

92

69 Survey

99

Date

0	5	0	2	1	3
---	---	---	---	---	---

100

105

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

BR-86 REV 02-95

0	4	3	2	4	7	4
---	---	---	---	---	---	---

1 Structure File Number 7

Bridge Number **ATB T141A 0040**  
CO ROUTE UNIT

**Date Built 07/01/1900 - 2003**

District **04** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 15**

**GRAND RIVER**

00 NO REMARKS FOUND FOR THIS INSPECTION.

---