

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] Ashtabula County [007] Harpersfield [33642] GRAND RIVER 41-45-24 = 41.756667 080-56-39 = 80.944167

432466 Highway agency district 4 Owner County Highway Agency [02] Maintenance responsibility County Highway Agency [02]

Route #Num! HARPERSFIELD ROAD Toll On free road [3] Features intersected GRAND RIVER

Design - main Steel [3] Design - approach Other [00] Kilometerpoint 0 km = 0.0 mi

1 Truss - Thru [10] 0 Other [00] Year built #Num! Year reconstructed 1990

Skew angle 0 Structure Flared

Historical significance Bridge is eligible for the NRHP. [2]

Total length 42.4 m = 139.1 ft Length of maximum span 41.5 m = 136.2 ft Deck width, out-to-out 6.3 m = 20.7 ft Bridge roadway width, curb-to-curb 4.9 m = 16.1 ft

Inventory Route, Total Horizontal Clearance 4.9 m = 16.1 ft Curb or sidewalk width - left 1.2 m = 3.9 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

Type of membrane/wearing surface

Weight Limits

Bypass, detour length 0.3 km = 0.2 mi Method to determine inventory rating No rating analysis performed [5] Inventory rating 24.3 metric ton = 26.7 tons

Method to determine operating rating No rating analysis performed [5] Operating rating 32.4 metric ton = 35.6 tons

Bridge posting 20.0 - 29.9 % below [2] 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

Posted for load [P]

Appraisal ratings - structural

Equal to present minimum criteria [6]

Condition ratings - superstructure

Satisfactory [6]

Appraisal ratings - roadway alignment

Somewhat better than minimum adequacy to tolerate being left in place as is [5]

Condition ratings - substructure

Satisfactory [6]

Appraisal ratings - deck geometry

Basically intolerable requiring high priority of corrective action [3]

Condition ratings - deck

Good [7]

Scour

Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]

Channel and channel protection

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

Better than present minimum criteria [7]

Status evaluation

Functionally obsolete [2]

Pier or abutment protection

Sufficiency rating

72

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

April 2010 [0410]

Designated inspection frequency

12

Months

Underwater inspection

Not needed [N]

Underwater inspection date

Fracture critical inspection

Every two years [Y24]

Fracture critical inspection date

April 2010 [0410]

Other special inspection

Not needed [N]

Other special inspection date

Unit of Measure: **English**
Structure File Number **0432466**
Sufficiency Rating: **74.1 fo**

Bridge Inventory Information
Inventory Bridge Number: **ATB C154A 0069**
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: **GRAND RIVER** (102) Facility Carried: **HARPERSFIELD ROAD**
(2) FIPS Code: **HARPERSFIELD TWP** (103) Route On Bridge: **COUNTY** (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: 1 Type: **STEEL / TRUSS / THRU**
Route No.: **C154A** Dir: Des: **MAINLINE** Pref: Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: 1 (65) Max Span: **136** Ft (66) Overall Leng: **139** Ft

(4) Feature Intersected: **GRAND RIVER** (70) Substructure (71) Foundation and Scour Information
(5) County: **ATB** Mileage: **0069** Special Desig: Abut-Rear Matl: **STONE** Type: **GRAVITY** Fnd: **ROCK**
(6) Avg. Daily Traffic(ADT): **100** (7) ADT Year: **2000** Abut-Fwd Matl: **STONE** Type: **SOLID WALL** Fnd: **ROCK**
(8) Truck Traf: **2** (14) NHS: **NO - X** (15) Corridor: **N** Pier-Pred Matl: **NONE** Type: **NONE** 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: **NN** 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: **16.1** Ft
(155) Prac Max Vert On Brg: **18.0** Ft
(67) Min Vrt Clr On Brg: NC: **0.0** Ft Card: **18.0** 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: **02** Miles
(39) Latitude: **41 Deg 45.4 Min** Longitude: **80 Deg 56.7 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1900** (42) Major Rehabilitation: **01/01/1990**
(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: **16.1** Ft
(51) Deck Width: **20.8** Ft Deck Area: **2896** Sq. Ft
(52) Median Type: **NONE / NON BARRIE / NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **4** Ft (right) **0** Ft
(55) Type Curb or Sidewalks:
(Left) Matl: **TIMBER** Type: **SIDEWALK(>2')**
(Right) Matl: **NONE** Type: **NONE**
(56) Flared: **N** (57) Composite:

(58) Railing: **STL GUARDRL ON STL, CONCR, OR TMBR POSTS**
(59) Deck Drainage: **OVER THE SIDE (W/O DRIP STRIP)**
(60) Deck Type: **LAMINATED TIMBER STRIP**
(61) Deck Protection: External: **NONE**
Internal: **NONE**
(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: **27** Ton
Ohio Percent of Legal Load **135** (88) Waterway Adequacy **7**
Year of Rating: **2011** (89) Approach Alignment **5**
(84) Analysis: **LOAD FACTOR (LF)** Calc Gen Appraisal: **6**
(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: **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 **N/A (CULVERTS, TRUSSES, ETC.)** (122) Moment Plate: **NONE**
(169) Expansion Joint: **NONE**
(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: **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:

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NON-REGISTERED HISTORIC BRIDGE (---) Hist Builder: RIVERSIDE BRIDGE COMPANY Hist Build Year: 1913 (MARTINS FERRY, (69) Hist Type: PRATT (RIVETED) (161) Special Features (see below): (105) Border Bridge State: Resp % (106) SFN:		(69) NBIS: Y		(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: 1PLAN INFORMATION AVAILABLE			
Proposed Improvements		Programming Info		(153) Repair Projects			
(90) Type Work: -		PID Number:		1. / 020			
(90) Length: Ft		PID Status:		2. / MMM			
(90) Bridge Cost (\$1000s): 0		PID Date:		3. 000000 / 020			
(90) Roadway Cost (\$1000s): 0				4.			
(90) Total Project Cost (\$1000s): 0		(90) Year:		5.			
(91) Future ADT (On Bridge): 0		(92) Year of Future ADT: 2033		6.			
				7.			
				8.			
				9.			
				10.			
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 6	Railings: 0 DOES NOT MEET CURRENT STANDARDS	(46) Electric: U	(161) Lighting: N	Gas: U	Fencing: N		
(I-32) Superstructure: 6	Transitions: 0 DOES NOT MEET CURRENT STANDARDS	Sanitary Sewer: U	Glare-Screen: N	Telephone: U	Splash-Guard: N		
(I-42) Substructure: 6	Guardrail: 0 DOES NOT MEET CURRENT STANDARDS	TV Cable: U	Catwalks: N	Water: U	Other-Feat: U		
(I-50) Culvert:	Rail Ends: 0 DOES NOT MEET CURRENT STANDARDS	Other: U	(184) Signs-on: N				
(I-54) Channel: 8	In Depth: N NONE N/A	(162) Fence-Ht: 0.0 Ft					
(I-60) Approaches: 8	Fracture Critical: 1 MEETS CURRENT STANDARDS	(163) Noise Barr: N					
(I-66) General Appraisal: 6	Scour Critical: N NONE N/A						
(I-66) Operational Status: A	Critical Findings: N NONE N/A						
Inspection Date: 05/02/2013	Insp. Update Date: 05/17/2013						
(94) Desig Insp Freq: 12 Months							
SFNs Replacing this retired bridge: -				INV Field Bridge Marker: ATB-C154A-0069 -			
SFNs That where replaced by this bridge: -				INT Field Bridge Marker: ---			
This bridge was retired and copied to:							
The bridge was copied from:							

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%

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0	4	3	2	4	6	6
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Bridge Number **ATB C154A 0069**
CO ROUTE UNIT

HARPERSFIELD TWP

Date Built **07/01/1900 - 1990**

Structure File Number 7

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

Type Service **1 15 GRAND RIVER**

ATB

DECK		Out/Out 20.8	1	THCK = 2.0		1
1. Floor	2-LAMINATED TIMBER STRIP	8	1	2. Wearing Surface	6-BITUM (ASPHLT CONCRT)	41
		3-TIMBER	1	W.S. Date = 01/01/1999		
3. Curbs, Sidewalks, Walkways	N-NONE	9	1	4. Median		42
5. Railing	7-STL GUARDRL ON STL, CO	10	2	6. Drainage	1-OVER THE SIDE (W/O DRI	43
7. Expansion Joints	N-NONE	11		8. Summary		44
SUPERSTRUCTURE		MAX.SPAN=136	1			
9. Alignment		12	1	10. Beams/Girders/Slab	N-N/A (CULVERTS, TRUSSES	45
		TOT.LGTH=139				
11. Diaphragms or Crossframes		13		12. Joists/Stringers		46
13. Floor Beams		14	2	14. Floor Beam Connections		47
15. Verticals		15	2	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	2	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 = 3-PAINT SYSTEM A DATE = 07/01/1990	54
29. Pins/Hangers/Hinges		22		30. Fatigue Prone Connections		55
31. Live Load Response		23	S	32. Summary		56
SUBSTRUCTURE		1-STONE	2	PIERS=0 SPANS = 1		
33. Abutments	1-STONE	24	2	34. Abutment Seats		57
35. Piers	TYPE = N-NONE	25		36. Pier Seats		58
37. Backwalls		26	2	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		42. Summary	DIVE DT=N/A	62
CULVERTS						
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
CHANNEL				N-NONE		
51. Alignment		33	1	52. Protection		67
53. Waterway Adequacy		34	1	54. Summary		68
APPROACHES						
55. Pavement	2-BITUMINOUS	35	1	56. Approach Slabs		69
57. Guardrail	1-STEEL BEAM	36	1	58. Relief Joints		70
59. Embankment	BRDG.WIDTH=16.1	37	1	60. Summary	PCT.LEGAL=135	71
GENERAL				ROUTINE.RESP: 3-COUNTY		
61. Navigation Lights		38		62. Warning Signs	MAINT.RESP: 3-COUNTY	72
63. Sign Supports	MVC ON=18.0 UND=0000	39		64. Utilities		73
65. Vertical Clearance		40	1	66. General Appraisal & Operational Status		74

67. INSPECTED BY

68. REVIEWED BY

SIGNED

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76 PE

R	R	A
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78 INITIALS

SIGNED

	6	6	0	5	4
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81 PE

T	G	P
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83 INITIALS

DOT 2852

DECK AREA 2,896

Date

0	5	0	2	1	3
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86

91

Date

0	0	0	0	N	1	N	N
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92

69 Survey

99

Date

0	5	0	2	1	3
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100

105

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0	4	3	2	4	6	6
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1 Structure File Number 7

Bridge Number **ATB C154A 0069**
CO ROUTE UNIT

Date Built 07/01/1900 - 1990

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

Type Service **1 15**

GRAND RIVER

00 NO REMARKS FOUND FOR THIS INSPECTION.
