

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] Morgan [52066] 2.35 MI. E. OF CH9 41-38-43 = 41.645278 080-54-17 = - 80.904722

432814 Highway agency district 4 Owner County Highway Agency [02] Maintenance responsibility County Highway Agency [02]

Route #Num! SHAFFER 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 2001

Skew angle 0 Structure Flared

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

Total length 51.2 m = 168.0 ft Length of maximum span 50.6 m = 166.0 ft Deck width, out-to-out 5.2 m = 17.1 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 0 m = 0.0 ft Curb or sidewalk width - right 0 m = 0.0 ft

Deck structure type Other [9]

Type of wearing surface Bituminous [6]

Deck protection

Type of membrane/wearing surface

Weight Limits

Bypass, detour length 0.6 km = 0.4 mi Method to determine inventory rating Allowable Stress(AS) [2] Inventory rating 32.4 metric ton = 35.6 tons

Method to determine operating rating Allowable Stress(AS) [2] 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

Open, no restriction [A]

Appraisal ratings - structural

Better than present minimum criteria [7]

Condition ratings - superstructure

Good [7]

Appraisal ratings - roadway alignment

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

Condition ratings - substructure

Good [7]

Appraisal ratings - deck geometry

Basically intolerable requiring high priority of replacement [2]

Condition ratings - deck

Excellent [9]

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

71.9

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 **0432814**
Sufficiency Rating: **72.9 fo**

Bridge Inventory Information
Inventory Bridge Number: **ATB T 67A 0235**
ON GRAND RIVER

Report Date **03/21/2013** **BM-191** Page: 1 of 2
BR. Type STEEL / TRUSS / THRU
Date of Last Inventory Update: **08/01/2012**

District: **04** County **ASHTABULA** (101) Location: **2.35 MI. E. OF CH9** (102) Facility Carried: **SHAFFER ROAD**
(2) FIPS Code: **MORGAN 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: 1 Type: **STEEL / TRUSS / THRU**
Route No.: **T 67A** Dir: Des: **MAINLINE** Pref: Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: 1 (65) Max Span: **166 Ft** (66) Overall Leng: **168 Ft**

(4) Feature Intersected: **GRAND RIVER** (70) Substructure (71) Foundation and Scour Information
(5) County: **ATB** Mileage: **0235** Special Desig: Abut-Rear Matl: **CONCRETE** Type: **GRAVITY** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
(6) Avg. Daily Traffic(ADT): **150** (7) ADT Year: **1951** Abut-Fwd Matl: **CONCRETE** Type: **GRAVITY** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
(8) Truck Traf: **5** (14) NHS: **NO - X** (15) Corridor: **N** Pier-Pred Matl: **NONE** Type: **NONE** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
(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: **16.0 Ft**
(155) Prac Max Vert On Brg: **16.0 Ft**
(67) Min Vrt Clr On Brg: NC: **0.0 Ft** Card: **16.0 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 39.0 Min** Longitude: **80 Deg 52.1 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1900** (42) Major Rehabilitation: **01/01/2001**
(43) No. Lanes On: **2** No. Lanes Under: **0**
(44) Horiz Curve: **00 Deg. D00M Min.** (45) Skew: **0 Deg**
(49) App. Rdw Width: **24 Ft** (50) Brg. Rdw Width: **16.0 Ft**
(51) Deck Width: **17.0 Ft** Deck Area: **2852 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: **non-composite**

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 **150** (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: **2**
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **N**

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

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: **SLIDING (BRONZE)/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: **2012-06-08**
(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:

(62) Wearing Surface: **BITUM (ASPHLT CONCRT)**
Thickness: **1.0 in** (119) Date of Wearing Surface: **01/01/1999**
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

Unit of Measure: **English**
 Structure File Number **0432814**
 Sufficiency Rating: **72.9 fo**

Bridge Inventory Information
 Inventory Bridge Number: **ATB T 67A 0235**
ON GRAND RIVER

Report Date **03/21/2013** **BM-191** Page: 2 of 2
BR. Type STEEL/TRUSS/THRU
 Date of Last Inventory Update: **08/01/2012**

General Information (Continued) Original Plans Information

(---) Hist Significance: **NON-REGISTERED HISTORIC BRIDGE** (69) NBIS: Y
 (---) Hist Builder: **MASSILLON BRIDGE COMPANY** Hist Build Year: **1913**
 (69) Hist Type: **PRATT (RIVETED)**
 (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:

Proposed Improvements
 (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**

Programming Info
 PID Number:
 PID Status:
 PID Date:

Aperture Cards: Orig: **N** Repair: **N** Fabr: **N**
 Plan Information Available: **1PLAN INFORMATION AVAILABLE**
 (153) Repair Projects
 1. / **020** 2. **000000 / 020** 3.
 4. 5. 6.
 7. 8. 9.
 10.

Inspection Summary (I-69) Survey Items

(I-8) Deck: 9	Railings: 1 MEETS CURRENT STANDARDS
(I-32) Superstructure: 6	Transitions: 0 DOES NOT MEET CURRENT STANDARDS
(I-42) Substructure: 6	Guardrail: 0 DOES NOT MEET CURRENT STANDARDS
(I-50) Culvert:	Rail Ends: 0 DOES NOT MEET CURRENT STANDARDS
(I-54) Channel: 8	In Depth: N NONE N/A
(I-60) Approaches: 8	Fracture Critical: 1 MEETS CURRENT STANDARDS
(I-66) General Appraisal: 6	Scour Critical: N NONE N/A
(I-66) Operational Status: A	Critical Findings: N NONE N/A
Inspection Date: 06/08/2012	Insp. Update Date: 08/01/2012
(94) Desig Insp Freq: 12 Months	

Utilities Special Features

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

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: **ATB-T 67A-0235 -**
 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

0	4	3	2	8	1	4
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Bridge Number **ATB T 67A 0235**
CO ROUTE UNIT

MORGAN TWP

Date Built **07/01/1900 - 2001**

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

Type Service **1 15 GRAND RIVER**

ATB

DECK		Out/Out 17.0	1	THCK = 1.0		1
1. Floor	0-OTHER 8			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	6-STEEL POST & STEEL PAN 10		1	6. Drainage	1-OVER THE SIDE (W/O DRI	43
7. Expansion Joints	N-NONE 11			8. Summary		44
SUPERSTRUCTURE		MAX.SPAN=166	1			
9. Alignment			12	10. Beams/Girders/Slab	N-N/A (CULVERTS, TRUSSES	45
		TOT.LGTH=168				
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	3-SLIDING (BRONZE) 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	32. Summary		56
SUBSTRUCTURE		2-CONCRETE	2	PIERS=0 SPANS = 1		
33. Abutments	2-CONCRETE 24			34. Abutment Seats		57
35. Piers	TYPE = N-NONE 25			36. Pier Seats		58
37. Backwalls			26	38. Wingwalls	ABUTMENT:=UNKNOWN / UNKNOWN	59
39. Fenders and Dolphins			27	40. Scour	8-STABLE: EVAL SCOUR ABO 60	60
41. Slope Protection	N-NONE 28			42. Summary		62
				DIVE DT=N/A		
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	52. Protection		67
53. Waterway Adequacy			34	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=16.0 37		1	60. Summary		71
				PCT.LEGAL=150		
GENERAL				ROUTINE.RESP: 3-COUNTY		
61. Navigation Lights			38	62. Warning Signs	MAINT.RESP: 3-COUNTY	72
63. Sign Supports	MVC ON=16.0 UND=0000		39	WAT/		73
65. Vertical Clearance			40	66. General Appraisal & Operational Status		74
				COND STAT		6 A

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 2,852

Date

0	6	0	8	1	2
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86

91

Date

1	0	0	0	N	1	N	N
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92

69 Survey

99

Date

0	6	0	8	1	2
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100

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0	4	3	2	8	1	4
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1 Structure File Number 7

Bridge Number **ATB T 67A 0235**
CO ROUTE UNIT

Date Built 07/01/1900 - 2001

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

Type Service **1 15**

GRAND RIVER

00 NO REMARKS FOUND FOR THIS INSPECTION.
