

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

West Virginia [54] Brooke County [009] Unknown [00000] 0.34 MI WEST JCT WV 2 40-21-30 = 40.358333 080-36-24 = - 80.606667

00000000005A006 Highway agency district 6 Owner State Highway Agency [01] Maintenance responsibility State Highway Agency [01]

Route 200 WV ROUTE 2 SPUR Toll On free road [3] Features intersected OHIO RIVER & OHIO RT 7

Design - main Steel [3] Design - approach Steel continuous [4] Kilometerpoint 0.2 km = 0.1 mi
 1 Suspension [13] 8 Mixed types [20] Year built 1904 Year reconstructed 1981
 Skew angle 0 Structure Flared
 Historical significance Bridge is not eligible for the NRHP. [5]

Total length 546.8 m = 1794.1 ft Length of maximum span 213.4 m = 700.2 ft Deck width, out-to-out 6.5 m = 21.3 ft Bridge roadway width, curb-to-curb 6.3 m = 20.7 ft

Inventory Route, Total Horizontal Clearance 6.3 m = 20.7 ft Curb or sidewalk width - left 0 m = 0.0 ft Curb or sidewalk width - right 1.4 m = 4.6 ft

Deck structure type Open Grating [3]
 Type of wearing surface Other [9]
 Deck protection
 Type of membrane/wearing surface

Weight Limits

Bypass, detour length 0.3 km = 0.2 mi Method to determine inventory rating Allowable Stress(AS) [2] Inventory rating 0 metric ton = 0.0 tons
 Method to determine operating rating Allowable Stress(AS) [2] Operating rating 0 metric ton = 0.0 tons
 Bridge posting 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

Bridge closed to all traffic [K]

Appraisal ratings -
structural

Condition ratings - superstructure

Imminent Failure [1]

Appraisal ratings -
roadway alignment

Condition ratings - substructure

Imminent Failure [1]

Condition ratings - deck

Imminent Failure [1]

Appraisal ratings -
deck geometry

Scour

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

Channel and channel protection

Bridge closed because of channel failure. Corrective action may put back in light service. [1]

Appraisal ratings - water adequacy

Equal to present desirable criteria [8]

Status evaluation

Structurally deficient [1]

Pier or abutment protection

None present but re-evaluation suggested [5]

Sufficiency rating

30

Culverts

Not applicable. Used if structure is not a culvert. [N]

Traffic safety features - railings

Inspected feature meets currently acceptable standards. [1]

Traffic safety features - transitions

Traffic safety features - approach guardrail

Traffic safety features - approach guardrail ends

Inspection date

September 2010 [0910]

Designated inspection frequency

12

Months

Underwater inspection

Unknown [Y60]

Underwater inspection date

September 2010 [0910]

Fracture critical inspection

Every year [Y12]

Fracture critical inspection date

September 2010 [0910]

Other special inspection

Every year [Y12]

Other special inspection date

September 2010 [0910]

Unit of Measure: **English**
Structure File Number **4100964**
Sufficiency Rating: **16.0 SD**

Bridge Inventory Information
Inventory Bridge Number: **JEF 00007 1642**
UNDER PT.MARKET ST.BR.OVR SR7

Report Date 09/18/2012 BM-191 Page: 1 of 2
BR. Type STEEL / SUSPENSION / THRU
Date of Last Inventory Update: 12/20/2011

District: **11** County **JEFFERSON** (101) Location: **.68 MI N OF CONRAIL RR** (102) Facility Carried: **MARKET ST-WVA2SPUR**
(2) FIPS Code: **STEUBENVILLE** (103) Route On Bridge: **MUNICIPAL** (104) Route Under Bridge: **STATE (ODOT)**
(9) Direction of Traffic: **2-WAY TRAFFIC** (10) Temporary: **N** (11) Truck Network: **N** (12) Parallel: **N**
(95) Insp: **OHIO TRAN DEPT** (96) Maint: **BORDER STATE** (97) Routine: **BORDER S** (100) Type Serv: (On): **HIGHWAY** (Under): **HIGHWAY, WITH OR WIT**

Inventory Route Data

(3) Route On/Under: **UNDER** Hwy Sys: **STATE HIGHWAY**
Route No.: **00007** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **PT.MARKET ST.BR.OVR SR7**
(5) County: **JEF** Mileage: **1642** Special Desig:
(6) Avg. Daily Traffic(ADT): **16,010** (7) ADT Year: **2005**
(8) Truck Traf: **2,640** (14) NHS: **YES - N** (15) Corridor: **Y**
(16) Functional Class: **OTHER FREEWAY OR EXPRESSWAY-URBAN** (19) Strahnt: **Not Applicable**

(63) Main Spans Number: **12** Type: **STEEL / SUSPENSION / THRU**
Approach Spans Number: **1** Type: **STEEL / TRUSS / THRU**
Total Spans: **13** (65) Max Span: **112 Ft** (66) Overall Leng: **144 Ft**

Intersected Route Data

(22) Route On/Under: **ON** Hwy Sys: **MUNICIPAL STREET**
Route No.: **WV2SP** Dir: Des: **1** Pref:
(23) Feature Intersected: **SR7,RR.& OHIO RIVER**
(24) County: **JEF** Mileage: **0000** Special Desig:
(25) Avg. Daily Traffic(ADT): **500** (26) ADT Year: **1970**
(27) Truck Traf: **0** (28) NHS: **NO - X** (29) Corridor: **N**
(30) Functional Class: **MINOR ARTERIAL-URBAN** (36) Strahnt: **Not Applicable**

(70) Substructure (71) Foundation and Scour Information
Abut-Rear Matl: **CONCRETE** Type: **GRAVITY** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
Abut-Fwd Matl: **CONCRETE** Type: **GRAVITY** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
Pier-Pred Matl: **STEEL** Type: **OPEN COLUMN** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
Pier-Other Matl: **NONE** Type: **NONE** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
Pier-Other Matl: **NONE** Type: **NONE** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
No of Piers Predominate: **11** Other: **NN** Other: **NN**
(86) Stream Velocity: **NNN** (74) Scour: **BRIDGE NOT OVER WATERWAY**
(189) Dive: **N Freq: 0** Probe: **N Freq: 0** (75) Chan Prot: **N/A**
(189) Date of last Dive Insp: (152) Drainage Area: **NNN Sq Mi**

Clearance Under the Bridge

(154) Min Hriz on Bridge: NC: **0.0 Ft** Card: **34.0 Ft**
(155) Prac Max Vert On Brg: **13.5 Ft**
(67) Min Vrt Clr On Brg: NC: **0.0 Ft** Card: **13.5 Ft**
(80) Min Latl Clr: NC: **0.0 / 0.0 Ft** Card: **0.0 / 0.0 Ft**
(81) Vrt Clr Lft: **0.0 Ft**

(156) Min. Horiz Under Clear: NC: **44.0 Ft** Card: **40.0 Ft**
(157) Prac Max Vrt Under Clear: **15.9 Ft**
(77) Min Vert Under Clear: NC: **15.2 Ft** Card: **15.8 Ft**
(78) Min Lat Under Clear: NC: **0.0 / 0.0 Ft** Card: **0.0 / 0.0 Ft**

Clearance On the Bridge

Load Rating Information

(88-89) Appraisal

(38) Bypass Length: **00 Miles**
(39) Latitude: **40 Deg 21.5 Min** Longitude: **80 Deg 36.7 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1905** (42) Major Rehabilitation:
(43) No. Lanes On: **2** No. Lanes Under: **4**
(44) Horiz Curve: **Deg. Min.** (45) Skew: **0 Deg**
(49) App. Rdw Width: **34 Ft** (50) Brg. Rdw Width: **24.0 Ft**
(51) Deck Width: **34.0 Ft** Deck Area: **4898 Sq. Ft**

(48) Design Load: **H/10** (Including calculated Items)
(83) Operating: **14 Ton**
Inventory: **10 Ton**
Ohio Percent of Legal Load **15** (88) Waterway Adequacy **N**
Year of Rating: **1997** (89) Approach Alignment **5**
(84) Analysis: **ENGINEERING JUDGEMENT [DEFAULT]** Calc Gen Appraisal: **3**
(85) Rate Soft: **NO SOFTWARE USED** Analyzed by: **WVHD** Calc Deck Geometry: **3**
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **3**

Structure Information

Approach Information

(52) Median Type: **NONE / NON BARRIE / NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **0 Ft** (right) **6 Ft**
(55) Type Curb or Sidewalks:
(Left) Matl: **STEEL** Type: **SIDEWALK(>2')**
(Right) Matl: **STEEL** Type: **SIDEWALK(>2')**
(56) Flared: **N** (57) Composite:
(58) Railing: **STEEL POST & STEEL PANEL (DECORATIVE)**
(59) Deck Drainage: **OTHER-NATURAL(OFF THE BRIDGE ENDS)**
(60) Deck Type: **STEEL GRID - OPEN**
(61) Deck Protection: External: **NONE**
Internal: **NONE**
(62) Wearing Surface: **OTHER**
Thickness: **0.0 in** (119) Date of Wearing Surface:
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

(109) Approach Guardrail: **NONE**
(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:
(169) Expansion Joint: **SLIDING METAL PLATE ANGLE**
(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: **N** Freq: **0** Date:
(138) Long Member: **NOT APPLICABLE** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing: **NONE**
Railing: **UNKNOWN**
Paint: **OTHER**
Pay Wt: **0 pounds** Prime Loc: **UNKNOWN**
Bridge Dedicated Name: **MARKET STREET**

Unit of Measure: **English**
 Structure File Number **4100964**
 Sufficiency Rating: **16.0 SD**

Bridge Inventory Information
 Inventory Bridge Number: **JEF 00007 1642**
UNDER PT.MARKET ST.BR.OVR SR7

Report Date **09/18/2012** **BM-191** Page: 2 of 2
BR. Type STEEL/SUSPENSION/THRU
 Date of Last Inventory Update: **12/20/2011**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NON-REGISTERED HISTORIC BRIDGE		(69) NBIS: Y		(142) Fabricator:			
(---) Hist Builder: OHIO STEEL ERECTION COMPANY		Hist Build Year: 1905		(143) Contractor:			
(69) Hist Type: NONE N/A				(144) Ohio Original Construction Project No.:			
(161) Special Features (see below):				(---) Microfilm Reel:			
(105) Border Bridge State: 543 Resp 99 % (106) SFN: 052SPUR0.011664				(151) Standard Drawing:			
Proposed Improvements		Programming Info		Aperture Cards: Orig: Y Repair: N Fabr: N			
(90) Type Work: -		PID Number:		Plan Information Available: 1PLAN INFORMATION AVAILABLE			
(90) Length: Ft		PID Status:		(153) Repair Projects			
(90) Bridge Cost (\$1000s): 0		PID Date:		1. 590304 / UUU		2. / 020	
(90) Roadway Cost (\$1000s): 0				4.		5.	
(90) Total Project Cost (\$1000s): 0		(90) Year:		7.		8.	
(91) Future ADT (On Bridge): 0		(92) Year of Future ADT: 2031		10.		9.	
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 7	Railings: 0 DOES NOT MEET CURRENT STANDARDS	(46) Electric: N	(161) Lighting: Y				
(I-32) Superstructure: 3	Transitions: 0 DOES NOT MEET CURRENT STANDARDS	Gas: N	Fencing: N				
(I-42) Substructure: 4	Guardrail: 0 DOES NOT MEET CURRENT STANDARDS	Sanitary Sewer: N	Glare-Screen: N				
(I-50) Culvert:	Rail Ends: 0 DOES NOT MEET CURRENT STANDARDS	Telephone: N	Splash-Guard: N				
(I-54) Channel:	In Depth: N NONE N/A	TV Cable: N	Catwalks: N				
(I-60) Approaches: 4	Fracture Critical: N NONE N/A	Water: N	Other-Feat: N				
(I-66) General Appraisal: 3	Scour Critical: N NONE N/A	Other: N	(184) Signs-on: Y				
(I-66) Operational Status: P	Critical Findings: N NONE N/A		Signs-Under: N				
Inspection Date: 03/12/2012	Insp. Update Date: 05/03/2012		(162) Fence-Ht: 0.0 Ft				
(94) Desig Insp Freq: 12 Months			(163) Noise Barr: N				
SFNs Replacing this retired bridge: -				INV Field Bridge Marker: JEF-00007-1642 -			
SFNs That where replaced by this bridge: -				INT Field Bridge Marker: JEF-WV2SP-0000 -			
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
28	STEEL DECK - OPEN GRID	1	EA	0	0	0	0	0
215	REINFORCED CONC ABUTMENT	68	LF	0	0	0	0	0
304	OPEN EXPANSION JOINT	68	LF	0	0	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
330	METAL BRIDGE RAILING	3586	LF	0	0	0	0	0

(*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
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4	1	0	0	9	6	4
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Bridge Number **JEF 00007 1642**
CO ROUTE UNIT

STEBENVILLE

Date Built **07/01/1905**

District **11** Bridge Type **STEEL/SUSPENSION/THRU**

Type Service **2 11 PT.MARKET ST.BR.OVR SR7**

JEF

DECK		Out/Out 34.0	1	THCK = 0.0	1
1. Floor	5-STEEL GRID - OPEN	8	1	2. Wearing Surface	0-OTHER 41
3. Curbs, Sidewalks, Walkways	2-STEEL	9	1	4. Median	W.S. Date = 42
5. Railing	6-STEEL POST & STEEL PAN	10	1	6. Drainage	0-OTHER-NATURAL(OFF THE 43
7. Expansion Joints	2-SLIDING METAL PLATE AN	11	1	8. Summary	44
SUPERSTRUCTURE		MAX.SPAN=112	1		
9. Alignment		12	1	10. Beams/Girders/Slab	1-ROLLED STEEL 45
11. Diaphragms or Crossframes	TOT.LGTH=144	13		12. Joists/Stringers	46
13. Floor Beams		14	3	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	3	20. Lower Lateral Bracing	50
21. Top Lateral Bracing		18		22. Sway Bracing	51
23. Portals		19	2	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 = 0-OTHER DATE = 01/01/1982 54
29. Pins/Hangers/Hinges		22		30. Fatigue Prone Connections	55
31. Live Load Response		23	S	32. Summary	56
SUBSTRUCTURE		2-CONCRETE	2	PIERS=11	SPANS = 12
33. Abutments	2-CONCRETE	24	2	34. Abutment Seats	57
35. Piers	TYPE = 5-STEEL	25	3	36. Pier Seats	58
37. Backwalls		26	1	38. Wingwalls	ABUTMENT:=UNKNOWN / UNKNOWN 59
39. Fenders and Dolphins		27		40. Scour	N-BRIDGE NOT OVER WATERW 60
41. Slope Protection	N-NONE	28		42. Summary	DIVE DT=N/A 62
CULVERTS					X-N/A
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					X-N/A
51. Alignment		33		52. Protection	67
53. Waterway Adequacy		34		54. Summary	68
APPROACHES					
55. Pavement	2-BITUMINOUS	35	3	56. Approach Slabs	69
57. Guardrail	N-NONE	36		58. Relief Joints	70
59. Embankment	BRDG.WIDTH=24.0	37	1	60. Summary	PCT.LEGAL=15 71
GENERAL					
61. Navigation Lights		38	1	62. Warning Signs	ROUTINE.RESP: Z-BORDER STATE MAINT.RESP: Z-BORDER STATE 72
63. Sign Supports	MVC ON=13.5 UND=15.2	39	1	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

C	C
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78 INITIALS

SIGNED

	6	7	6	7	0
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81 PE

W	K
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83 INITIALS

DOT 2852

DECK AREA 4,898

Date

0	3	1	2	1	2
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86

91

0	0	0	0	N	N	N	N
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92

69 Survey

99

Date

0	5	0	3	1	2
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100

105

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4	1	0	0	9	6	4
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1 Structure File Number 7

Bridge Number **JEF** **00007** **1642**
 CO ROUTE UNIT

Date Built 07/01/1905

District **11** Bridge Type **STEEL/SUSPENSION/THRU**

Type Service **2 1 1**

PT.MARKET ST.BR.OVR SR7

- Deck 1.) OPEN GRID FLOOR. MINOR LOSS OF SECTION.
- Deck 2.) SEE #1.EPOXY COATING ON WALKWAY,WITH WIRE LINK FENCE.
- Deck 5.) SEVERE LOSS OF SECTION.
- Deck 6.) NO DRAINAGE SYSTEM ON THIS STRUCTURE. HAS OPEN GRID FLOOR.
- Superstructure 10.) LOSS OF SECTION.
- Superstructure 12.) LOSS OF SECTION. SOME PLACES COMPLETELY RUSTED THROUGH.
- Superstructure 13.) SEVERE LOSS OF SECTION. PERFORATION THROUGH WEBS. SEE #19.
- Superstructure 14.) SEVERE LOSS OF SECTION,ALSO PERFORATIONS AND CRACKS. SEE #19.
- Superstructure 15.) LOSS OF SECTION.
- Superstructure 16.) LOSS OF SECTION.
- Superstructure 17&18.) LOSS OF SECTION.
- Superstructure 19.) LOSS OF SECTION. RIVETS MISSING @ & ADJACENT TO FLOOR BEAM GUSSETS.
- Superstructure 20.) GUSSET PLATES,SEVERE SECTION LOSS.
- Superstructure 21.)TOP LATERAL BRACING HAS LOSS OF SECTION, FEW SECTIONS BOWED OR BENT. LOWER LATERAL BRACING HAS SEVERE SECTION LOSS WITH PERORATIONS.
- Superstructure 22.) LOSS OF SECTION.
- Superstructure 23.) LOSS OF SECTION AT BOTTOMS.
- Superstructure 28.) NEW PAINT IN 2011.
- Superstructure 30.) MUCH WELDING DONE ON FLANGES AND WEBS. SEVERE LOSS OF SECTION ADJACENT TO BRACING.
- Superstructure 31.) 5 TON LOAD LIMIT.
- Superstructure 32.) NEW STEEL IN PLACES.
- Substructure 33.) MUCH DETER., CRACKING, AND SOME SCALING.
- Substructure 34.) CRACKING AND MINOR BREAKING. MUCH DEBRIS ON SEAT.
- Substructure 35.) MUCH HEAVY RUST, LOSS OF SECTION.
- Substructure CRACKING OF CONCRETE PIER & CAN SEE DETIORIATION OF CONC WHEN LOOKING DOWN FROM WALKWAY.
- Substructure 36.) LOSS OF SECTION.
- Substructure 41.) 3'X3'X2' DEEP SINK HOLE UNDER LEFT SIDE NEXT TO WALKWAY.
- Approaches 55.) MUCH CRACKING, RUTTING & BREAKING UP, MUCH SETTLING AND PATCHING.
- Approaches 56.) CRACKING AND SCALING.
- General 62.) NEW LIGHTING AND CONDUIT ON BRIDGE. 10' CLEARANCE SIGN POSTED.
- General 63.) SEE #62.
- General 64.) ELECTRIC TO LIGHTS.
- General 66.) BRIDGE CLOSED TO TRAFFIC FOR REPAIRS AT TIME OF INSPECTION 2010 & 2011.