

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] Huron County [077] Lyme [45514] 0.1 MI S OF EVERINGIN RD 41-13-01 = 41.216944 082-45-09 = - 82.752500

3930610 Highway agency district 3 Owner County Highway Agency [02] Maintenance responsibility County Highway Agency [02]

Route #Num! SANDHILL RD 040 Toll On free road [3] Features intersected SANDHILL / FRINK RUN

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

1 Truss - Thru [10] 0 Other [00] Year built 1944 Year reconstructed 1992

Skew angle 0 Structure Flared

Historical significance Bridge is not eligible for the NRHP. [5]

Total length 40.2 m = 131.9 ft Length of maximum span 38.4 m = 126.0 ft Deck width, out-to-out 6 m = 19.7 ft Bridge roadway width, curb-to-curb 5.8 m = 19.0 ft

Inventory Route, Total Horizontal Clearance 5.8 m = 19.0 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

Type of membrane/wearing surface

Weight Limits

Bypass, detour length 1.6 km = 1.0 mi Method to determine inventory rating Load Factor(LF) [1] Inventory rating 25.9 metric ton = 28.5 tons

Method to determine operating rating Load Factor(LF) [1] Operating rating 29.2 metric ton = 32.1 tons

Bridge posting 10.0 - 19.9 % below [3] Design Load MS 18 / HS 20 [5]

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	Better than present minimum criteria [7]
Condition ratings - substructure	Good [7]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Good [7]		
Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]		
Channel and channel protection	Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6]		
Appraisal ratings - water adequacy	Equal to present desirable criteria [8]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection		Sufficiency rating	67.2
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	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends			
Inspection date	July 2010 [0710]	Designated inspection frequency	12 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	July 2010 [0710]
Other special inspection	Not needed [N]	Other special inspection date	

Unit of Measure: **English**
Structure File Number **3930610**
Sufficiency Rating: **67.2 fo**

Bridge Inventory Information
Inventory Bridge Number:**HUR C0040 0015**
ON SANDHILL / FRINK RUN

Report Date **09/05/2012** BM-191 Page: 1 of 2
BR. Type **STEEL / TRUSS / THRU**
Date of Last Inventory Update: **03/09/2011**

District: **03** County **HURON** (101) Location: **0.1 MI S OF EVERINGIN RD** (102) Facility Carried: **SANDHILL RD 040**
(2)FIPS Code: **LYME 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** Approach Spans Number: **1** Type: **STEEL / TRUSS / THRU**
Route No.: **C0040** Dir: Des: **MAINLINE** Pref: Total Spans: **1** (65) Max Span: **126** Ft (66) Overall Leng: **132** Ft

(4) Feature Intersected: **SANDHILL / FRINK RUN** (70) Substructure (71) Foundation and Scour Information
(5) County: **LYT** Mileage: **0015** Special Desig: Abut-Rear Matl: **CONCRETE** Type: **SOLID WALL** Fnd: **SPREAD FOOTING**
(6) Avg. Daily Traffic(ADT): **412** (7) ADT Year: **2004** Abut-Fwd Matl: **CONCRETE** Type: **PROPRIETARY WALL W/STUB T** Fnd: **SPREAD FOOTING**
(8) Truck Traf: **29** (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: **000.0** (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: **028** 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 On the Bridge
(154) Min Hriz on Bridge: NC: **0.0** Ft Card: **19.1** Ft
(155) Prac Max Vert On Brg: **14.8** 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: **4.6 / 4.6** Ft
(81) Vrt Clr Lft: **0.0** Ft
(78) Min Lat Under Clear: NC: **0.0 / 0.0** Ft Card: **0.0 / 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

Load Rating Information (88-89) Appraisal
(48) Design Load: **HS/20** (Including calculated Items)
(83) Operating: **45** Ton
Inventory: **36** Ton
Ohio Percent of Legal Load **90** (88) Waterway Adequacy **8**
Year of Rating: **2010** (89) Approach Alignment **7**
(84) Analysis: **LOAD FACTOR (LF)** Calc Gen Appraisal: **6**
(85) Rate Soft: **OTHER** Analyzed by: **BLN** Calc Deck Geometry: **2**
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **N**

Structure Information
(38) Bypass Length: **10** Miles
(39) Latitude: **41 Deg 13.0 Min** Longitude: **82 Deg 45.2 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1944** (42) Major Rehabilitation: **01/01/1992**
(43) No. Lanes On: **2** No. Lanes Under: **0**
(44) Horiz Curve: **00 Deg. D00M Min.** (45) Skew: **0** Deg
(49) App. Rdw Width: **29** Ft (50) Brg. Rdw Width: **19.1** Ft
(51) Deck Width: **19.6** Ft Deck Area: **2583** 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**

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: **ROCKERS/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: **2010-07-30**
(138) Long Member: **TWO TRUSSES (WELDED)** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **A36** (139) Framing: **NONE**
Railing: **UNKNOWN**
Paint: **OTHER**
Pay Wt: **99** pounds Prime Loc: **UNKNOWN**
Bridge Dedicated Name:

Unit of Measure: **English**
 Structure File Number **3930610**
 Sufficiency Rating: **67.2 fo**

Bridge Inventory Information
 Inventory Bridge Number: **HUR C0040 0015**
ON SANDHILL / FRINK RUN

Report Date **09/05/2012** **BM-191** Page: 2 of 2
BR. Type STEEL/TRUSS/THRU
 Date of Last Inventory Update: **03/09/2011**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NOT HISTORIC (---) Hist Builder: COUNTY ENGINEER Hist Build Year: 1944 (69) Hist Type: WARREN (RIVETED) (161) Special Features (see below): (105) Border Bridge State: Resp % (106) SFN:		(69) NBIS: Y		(142) Fabricator: OHIO BRIDGE (143) Contractor: HURON CO HWY (144) Ohio Original Construction Project No.: (---) Microfilm Reel: (151) Standard Drawing: Aperture Cards: Orig: N Repair: N Fabr: N Plan Information Available: 2FIELD MEASURED INFORMATION (153) Repair Projects			
Proposed Improvements		Programming Info					
(90) Type Work: -		PID Number:		1. / 020			
(90) Length: Ft		PID Status:		4. 920000 / 003		2. / MMM	
(90) Bridge Cost (\$1000s): 0		PID Date:		3. / 020			
(90) Roadway Cost (\$1000s): 0				4. 920000 / 003			
(90) Total Project Cost (\$1000s): 0		(90) Year:		5. / 020			
(91) Future ADT (On Bridge): 0		(92) Year of Future ADT: 2030		6.			
				7.			
				8.			
				9.			
				10.			
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 7	Railings: 1 MEETS CURRENT STANDARDS	(I-32) Superstructure: 6	Transitions: 0 DOES NOT MEET CURRENT STANDARDS	(46) Electric: N	(161) Lighting: N		
(I-42) Substructure: 7	Guardrail: 1 MEETS CURRENT STANDARDS	(I-50) Culvert: 7	Rail Ends: 0 DOES NOT MEET CURRENT STANDARDS	Gas: N	Fencing: N		
(I-54) Channel: 6	In Depth: 1 MEETS CURRENT STANDARDS	(I-60) Approaches: 6	Fracture Critical: 1 MEETS CURRENT STANDARDS	Sanitary Sewer: N	Glare-Screen: N		
(I-66) General Appraisal: 6	Scour Critical: N NONE N/A	(I-66) Operational Status: P	Scour Critical: N NONE N/A	Telephone: N	Splash-Guard: N		
Inspection Date: 07/29/2012	Insp. Update Date: 08/07/2012		Critical Findings: N NONE N/A	TV Cable: N	Catwalks: N		
(94) Desig Insp Freq: 12 Months				Water: N	Other-Feat: N		
				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:		HUR-C0040-0015 -	
				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

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3	9	3	0	6	1	0
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Bridge Number **HUR C0040 0015**
CO ROUTE UNIT

LYME TWP

Date Built **07/01/1944 - 1992**

1 Structure File Number 7

District **03** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 15 SANDHILL / FRINK RUN**

HUR

DECK		Out/Out 19.6	1	THCK = 4.0		2
1. Floor	2-LAMINATED TIMBER STRIP	8	1	2. Wearing Surface	6-BITUM (ASPHLT CONCRT)	41
		N-NONE		W.S. Date = 01/01/2006		
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	8. Summary		44
SUPERSTRUCTURE		MAX.SPAN=126	1	N-N/A (CULVERTS, TRUSSES		45
9. Alignment			12	10. Beams/Girders/Slab		46
		TOT.LGTH=132				2
11. Diaphragms or Crossframes			13	12. Joists/Stringers		47
13. Floor Beams			14	14. Floor Beam Connections		48
			1			2
15. Verticals			15	16. Diagonals		49
			2			2
17. End Posts			16	18. Top Chord		50
			2			2
19. Lower Chord			17	20. Lower Lateral Bracing		51
			2			1
21. Top Lateral Bracing			18	22. Sway Bracing		52
			2	2-ROCKERS		2
23. Portals			19	24. Bearing Devices	N-NONE	53
			2			2
25. Arch			20	26. Arch Columns or Hangers		54
			2	TYPE = 0-OTHER		5
27. Spandrel Walls			21	28. Protective Coating System	DATE = 11/01/2005	55
			2			2
29. Pins/Hangers/Hinges			22	30. Fatigue Prone Connections		56
			S	32. Summary		56
31. Live Load Response			23			6
SUBSTRUCTURE		2-CONCRETE	1	PIERS=0		57
33. Abutments	2-CONCRETE	24	1	34. Abutment Seats		58
			1	SPANS = 1		1
35. Piers	TYPE = N-NONE	25	1	36. Pier Seats		59
			2	ABUTMENT:=SPREAD / SPREAD		3
37. Backwalls			26	38. Wingwalls		60
			2			1
39. Fenders and Dolphins			27	40. Scour	8-STABLE: EVAL SCOUR ABO	60
			2			1
41. Slope Protection	N-NONE	28	2	42. Summary		62
			2	DIVE DT=N/A		7
CULVERTS				N-NONE		
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
			2			6
53. Waterway Adequacy			34	54. Summary		68
APPROACHES						
55. Pavement	2-BITUMINOUS	35	1	56. Approach Slabs		69
57. Guardrail	1-STEEL BEAM	36	2	58. Relief Joints		70
59. Embankment	BRDG.WIDTH=19.1	37	2	60. Summary		71
			2	PCT.LEGAL=90		6
GENERAL				ROUTINE.RESP: 3-COUNTY		2
61. Navigation Lights			38	62. Warning Signs	MAINT.RESP: 3-COUNTY	72
63. Sign Supports	MVC ON=13.5 UND=0000		39	64. Utilities		73
65. Vertical Clearance			40	66. General Appraisal & Operational Status		74
			1			COND 6 STAT P

67. INSPECTED BY

68. REVIEWED BY

SIGNED

5	5	4	8	8
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76 PE

J	L	W
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78 INITIALS

SIGNED

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81 PE

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83 INITIALS

DOT 2852

DECK AREA 2,583

Date

0	7	2	9	1	2
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86

91

1	0	1	0	1	1	N	N
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92

69 Survey

99

Date

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100

105

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3	9	3	0	6	1	0
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1 Structure File Number 7

Bridge Number **HUR** **C0040** **0015**
CO ROUTE UNIT

Date Built 07/01/1944 - 1992

District **03** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 15**

SANDHILL / FRINK RUN

00 NO REMARKS FOUND FOR THIS INSPECTION.
