

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]	Columbiana County [029]	Franklin [28238]	0.0 MI E SR644	40-40-30.00 = 40.675000	080-52-54.00 = -80.881667
1537067	Highway agency district 11	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route #Num!	YELLOW CRK CH 846		Toll On free road [3]	Features intersected CONRAIL PENN CENTRAL R-R	
Design - main	Steel [3]	Design - approach	Kilometerpoint 0 km = 0.0 mi		
1	Truss - Thru [10]	0	Other [00]	Year built #Num!	Year reconstructed 1986
				Skew angle 0	Structure Flared
				Historical significance Bridge is eligible for the NRHP. [2]	
Total length	32.6 m = 107.0 ft	Length of maximum span	32.3 m = 106.0 ft	Deck width, out-to-out	4.1 m = 13.5 ft
Inventory Route, Total Horizontal Clearance	4.1 m = 13.5 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft
Deck structure type	Corrugated Steel [6]				
Type of wearing surface	Bituminous [6]				
Deck protection					
Type of membrane/wearing surface					

**Weight Limits**

Bypass, detour length	Method to determine inventory rating		Inventory rating	9.1 metric ton = 10.0 tons
0.3 km = 0.2 mi	Method to determine operating rating		Operating rating	12.3 metric ton = 13.5 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 designatio

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

Basically intolerable requiring high priority of corrective action [3]

Condition ratings - superstructure

Fair [5]

Appraisal ratings - roadway alignment

Equal to present minimum criteria [6]

Condition ratings - substructure

Satisfactory [6]

Appraisal ratings - deck geometry

Basically intolerable requiring high priority of replacement [2]

Condition ratings - deck

Good [7]

Scour

Bridge not over waterway. [N]

Channel and channel protection

Not applicable. [N]

Appraisal ratings - water adequacy

N/A [N]

Status evaluation

Functionally obsolete [2]

Pier or abutment protection

Sufficiency rating

28.1

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

Inspected feature meets currently acceptable standards. [1]

Traffic safety features - approach guardrail

Inspected feature meets currently acceptable standards. [1]

Traffic safety features - approach guardrail ends

Inspected feature meets currently acceptable standards. [1]

Inspection date

May 2013 [0513]

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 2012 [0712]

Other special inspection

Not needed [N]

Other special inspection date

(203) Bridge (Dedicated) Name:

Structure File Number: 1537067

Sufficiency Rating: 044.4 Deficiency Rating: FO

BRIDGE INVENTORY AND APPRAISAL
Inventory Bridge Number: COL T0846 01280 23
CONRAIL PENN CENTRAL R-R

Report Date: 7/11/2018

Bridge Status: Active

(2) District: 11 (3) County: 15-COLUMBIANA (9) Location: 0.0 Mi E Sr644 (7) Facility Carried: Yellow Crk Ch 846
(4) FIPS Code: COL-T-28238-FRANKLIN TWP Owner: COUNTY (208) Route On Bridge: Township (207) Route Under Bridge: Non Highway Traffic On Bridge (I.E.
(102) Direction of Traffic: 3 - One Lane Bridge For 2-Way (103) Temporary Structure: (110) Designated National Network: Not National Network (101) Parallel: N
(42A) Type Serv: (On): Highway (42B) Type Serv (Under): Railroad

INVENTORY ROUTE DATA

(5A) Route On/Under: 1 - Route Carried "On" The Structure
(5B) Hwy Sys: 4 - County Highway (Township Highway)
(5D) Route No: T0846 (5E) Dir: Not Applic (5C) Des: Mainline
(6) Feature Int: Conrail Penn Central R-R
(200) CL: 01280 (201)Spec Des:23 (209) Interstate Mile:
(29) Avg. Daily Traffic(ADT): 324 (30) ADT Year: 2015
(235) Truck Traf: 24 (210) Corridor: N (104) NHS: non-nhs bridge - 0
(26) Functional Class: rural - local (100) Strahnt: Not Strahnt

(45) Main Spans Number: 1 (43) Type: Steel/Truss/Thru
(46) Approach Spans Nbr: 0 (44) Type: None/None/None
(307) Total Spans: 1 (48) Max Span: 106.0 Ft (49) Overall Leng: 107.0 Ft

SUBSTRUCTURE

(370A) Record Type: (370B) Hwy Sys:
(370D) Route No: (370E) Dir: (370C) Des:
(373) Feature Int:
(382) CL: 0000 (371) Interstate Mile: (387) Special Desig:
(379) Avg. Daily Traffic(ADT): (380) ADT Year:
(381) Truck Traf: (384) Corridor: (378) NHS: Non-Nhs Bridge - 0
(375) Functional Class: (386) Strahnt:

Abut-Rear (532) Matl: Concrete (531) Type: Solid Wall (533) Fnd: Other
Abut-Fwd (527) Matl: Concrete (526) Type: Solid Wall (528) Fnd: Other
Pier-Pred (535) Matl: None (534) Type: None (536) Fnd: None (Such As Most Culverts)

INTERSECTED ROUTE DATA

Min. Horiz on Bridge: (335) NC: 0.0 Ft (47) Card: 13.5 Ft
(53) Prac Max Vert On Brg: 14.0 Ft
Min Vrt Clr On Brg: (336) NC: 0.0 Ft (10) Card: 14.0 Ft
Min Latl Clr: (338) Right NC: 0.0 Ft (337) Right Card: 0.0 Ft
(340) Left NC: 0.0 Ft (339) Left Card: 0.0 Ft

(663) Stream Velocity: 00000 fps (113) Scour: Bridge Not Over Waterway.
(92B) Underwater Inspection: N Freq: (655) Chan Prot: Not Applicable
(93B) Date of last Underwater Insp: (657) Drainage Area: 000 Sq Mi

CLEARANCE ON THE BRIDGE

CLEARANCE UNDER THE BRIDGE

STRUCTURE INFORMATION

LOAD RATING INFORMATION

APPRAISAL

(19) Bypass Length: 2.0 Miles
(16) Latitude: 40 Deg 40 Min 29.66 Sec (17) Longitude: 80 Deg 52 Min 56.01 Sec
(20) Toll: On Free Road, The Structure Is Toll Free
(263) Date Built: 7/1/1880 (264) Major Reconstruction Date: 1/1/1986
(28A) No. Lanes On: 1 (28B)No. Lanes Under: 0
(301) Horiz Curve: (34) Skew: 0 Deg
(32) App. Rdw Width: 16 Ft (51) Brg. Rdw Width: 13.5 Ft
(52) Deck Width: 13.5 Ft (424) Deck Area: 1445 Sq. Ft

(31) Design Load: UNKNOWN
(64) Opr Rat Fact/Ton: 9.999
(66) Inv Rat Fact/Ton: 9.999
(734) Ohio Percent of Legal Load: 40
(704) Year of Rating: 2016 (708) Rate Soft: Assigned Rating (No
(63) Opr Rat Method: Field Evaluation And Documented Engineer
(65) Inv Rat Method: Field Evaluation And Documented Engineer
Load Rater: (705) Troy (706) Graft (707) PE#: 65578

(71) Waterway Adequacy: N Not Applicable
(72) Approach Alignment: 6 Equal to present minimum criteria
(67) Calc Str Appraisal: 4 - Meets minimum tolerable limits
(68) Calc Deck Geometry: 2 - Intolerable - high priority of replacemen
(69) Calc Underclearance: 4 - Meets minimum tolerable limits

APPROACH INFORMATION

(406) Median Type: /Non Barrier/No Joint
(33) Bridge Median: No Median
Sidewalks: (50A) Left 0.0 Ft (50B) Right 0.0 Ft
Type Curb or Sidewalk:
(427) Left Matl: None (428) Type: None Or N/A (Rr, Pedestrian, Etc.)
(429) Right Matl: None (430) Type: None Or N/A (Rr, Pedestrian, Etc.)
(35) Flared: 0 (408) Composite: N - Non-Composite
(407) Railing: Steel Guardrail On Steel, Concrete Or Ti
(409) Deck Drainage: Over The Side (Without Drip Strip)

(401) Approach Guardrail: Steel Beam
(403) Approach Pavement: Bituminous (402) Grade: Good

CULVERT INFORMATION

(475) Main Member: Not Applicable (Culverts, Trusses, Arche) (477) Moment Plate: Moment Plates (Welded)
(414) Expansion Joint: Sliding Metal Plate Angle
(453) Bearing Devices: Sliding (Other)
(38) Navigation: N (39) Nav Vert Clr: 0.0 Ft (40) Nav Horiz Clear: 0.0 Ft

(575) Culvert Type: Not A Culvert Or Rigid Frame (578) Length: 0.0 Ft
(580) Depth of Fill: 0.0 Ft (582) Headwalls: None Or Not Applicable (Not A Culvert)

GENERAL INFORMATION

(203) Bridge (Dedicated) Name:		BRIDGE INVENTORY AND APPRAISAL		Report Date: 7/11/2018
Structure File Number: 1537067		Inventory Bridge Number: COL T0846 01280 23		
Sufficiency Rating: 044.4 Deficiency Rating: FO		CONRAIL PENN CENTRAL R-R		Bridge Status: Active
(107) Deck Type: Corrugated Steel		(92C) Spec Insp: N	Freq: 0	(93C) Special Inspection Date:
Deck Protection: (108B) External: Not Applicable (Only For Bridges For No		(92A) Fracture Critical Insp: Y	Freq: 24	(93A) Fracture Critical Feature Inspection Date: 7/19/2016
(108C) Internal: Not Applicable (Applies Only To Bridges		(474) Main Structure System: Two Trusses (Riveted)		(468) Hinges: Pins, Pin Plates
(108A) Wearing Surface: Bituminous (Asphaltic Concrete) - Overla		(487) Structural Steel Memb: Unknown		(465) Framing: None Or Not Applicable
(423) Thickness: 2.0 in (422) Date of Wearing Surface: 8/5/2011		(482) Paint: Other Paint		(426) Bridge Railing Steel: U
(547) Slope Protection: None		(483) PCS Date: 1/1/1987		
GENERAL INFORMATION (CONTINUED)		ORIGINAL PLANS INFORMATION		
(37) Hist Significance: Eligible For National Register Of Histor		(250) Fabricator:		
(112) NBIS: Y		(249) Contractor:		
(842) Hist/Designer: Pennsylvania Rr		(248) Ohio Original Construction Project No:		
(827) Hist Build Year: 1880		(252) Microfilm Reel:		
(828) Hist Type: Pratt (Pinned)		(251) Standard Drawing:		
(98A) Border Bridge State:		Aperture Cards:		
(98B) Border Bridge Resp:		(246) Orig: N		
(99) Border Bridge SFN:		(247) Repair: N		
		(245) Fabr: N		
PROPOSED IMPROVEMENTS		(709) Rating Source: 0 No Plans Or Information Available For Lo		
(114) Future ADT (On Bridge): 450		(115) Year of Future ADT: 2038		
INSPECTION SUMMARY		UTILITIES		SPECIAL FEATURES
(58) Deck: 7	(36A) Railings: Meets Acceptable Standards	(265) Electric Line: N		(283) Lighting: N
(59) Superstructure: 6	(36B) Transitions: Meets Acceptable Standards	(266) Gas Line: N		(431) Fence: N
(60) Substructure: 6	(36C) Guardrail: Meets Acceptable Standards	(269) Sanitary Sewer: N		(433) Glare-Screen: N
(62) Culvert: N	(36D) Guardrail Ends: Meets Acceptable Standards	(267) Telephone Line: N		(436) Splash-Guard: N
(61) Channel: N	(219) Temporary Barrier: N	(268) TV Cable: N		(459) Catwalks: N
(C6) Approaches: 6	(223) Temporary Shoring: N	(270) Water Line: N		(271) Other-Feat: N
General Appraisal: 6	(224) Temporary Sub Decking: N	(271) Other Utilities: N		(279) Signs-On: N
(41) Operational Status: P				(281) Signs-Under N
(90) Inspection date: 8/28/2017				(432) Fence-Ht on Bridge 0.0 FT
(91) Desig Insp Freq: 12 Mos				(434) Noise Barrier Walls N
(253) SFNs Replacing this retired bridge:		Insp 1st: 3 - County Agency		
(255) SFNs That were replaced by this bridge:		2nd:		
		3rd:		
		(21) Major Maint 1st: 3 - County Agency		
		2nd:		
		3rd:		
		(225) Routine Maint 1st: 3 - County Agency		
		2nd:		
		3rd:		

STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
BRIDGE INSPECTION REPORT

STRUCTURE FILE NUMBER: 1537067    COL T0846 01280 COL-T-28238-FRANKLIN TWP    DATE BUILT 07/01/1880 - 1986  
CO    Route    SLM    FIPS

District 11    STEEL/TRUSS/THRU    Type of Service    1    12 CONRAIL PENN CENTRAL R-R    23  
SD    COL

**DECK**

1. Floor	Out/Out 13.5 6-CORRUGATED STEEL	1	2. Wearing Surface	6-BITUMINOUS (ASPHALTIC CONCRETE) - THCK= 2.0	2
3. Curbs, Sidewalks & Walkways	N-NONE N-NONE		4. Median	W.S. Date = 08/05/2011 0-NO MEDIAN	
5. Railing	7-STEEL GUARDRAIL ON STEEL, CONCRETE OR TI	1	6. Drainage	1-OVER THE SIDE (WITHOUT DRIP STRIP)	1
7. Expansion Joints	2-SLIDING METAL PLATE ANGLE	1	<b>8. SUMMARY</b>	Deck Area: 1,445	7

**SUPERSTRUCTURE**

9. Alignment of Members	MAX.SPAN.LENGTH = 106	1	10. Beams/Girders/Slab	N-NOT APPLICABLE (CULVERTS, TRUSSES, ARCHE)	
11. Diaphragms or Cross Frames	TOT.LGTH = 107		12. Joist/Stringers		2
13. Floorbeams		1	14. Floorbeam Connections		
15. Verticals		1	16. Diagonals		2
17. End posts			18. Upper Chord		1
19. Lower Chord		1	20. Gusset Plates		1
21. Lateral Bracing		1	22. Sway Bracing		1
23. Portals			24. Bearing Devices	A-SLIDING (OTHER) N-NONE	1
25. Arch			26. Arch Columns or Hangers		
27. Spandrel Walls			<b>28. Protective Coating System (PCS)</b>	TYPE: 0OTHER PAINT DATE = 01/01/1987	4
29. Pins/Hangers/Hinges	ADT: 324    TRUCK: 24    YEAR: 2015	2	30. Fatigue Prone Detail (E & E')		1
31. Live Load Response (E or S)		S	<b>32. SUMMARY</b>		6

**SUBSTRUCTURE**

33. Abutments	2-CONCRETE 2-CONCRETE	2	34. Abutment Seats	PIERS=    # OF SPANS=1	1
35. Piers	TYPE = N-NONE		36. Pier Seats		
37. Backwalls		1	38. Wingwalls	ABUTMENT:=OTHER/OTHER	2
39. Fenders and Dolphins			40. Scour (Insp Type - 1, 2, 3)	N-BRIDGE NOT OVER WATERWAY.	
41. Slope Protection	N-NONE		<b>42. SUMMARY</b>	DIVE DT= N/A	6

**CULVERTS**

43. General			44. Alignment		
45. Shape			46. Seams		
47. Headwalls or Endwalls			48. Scour (Insp Type - 1, 2, 3)		
49. Abutments			<b>50. SUMMARY</b>		N

**CHANNEL**

51. Alignment			52. Protection	X-NOT APPLICABLE	
53. Hydraulic Opening			<b>54. SUMMARY</b>		N

**APPROACHES**

55. Pavement	2-BITUMINOUS	2	56. Approach Slabs		
57. Guardrail	1-STEEL BEAM	1	58. Relief Joint		
59. Embankment	BRDG.WIDTH=13.5	1	<b>60. SUMMARY</b>	PCT.LEGAL= 40	6

**GENERAL**

61. Navigation Lights			62. Warning Signs	ROUTINE.RESP: 3-COUNTY AGENCY MAINT.RESP: 3-COUNTY AGENCY	1
63. Sign Supports	MVC ON=1400    UND=2000		64. Utilities		
65. Vertical Clearance (1, 2-change, N)			66. General Appraisal & Operational Status		6    P

**67. INSPECTED BY**

**68. REVIEWED BY**

Print First & Last Name  
Inspected Date: 8/28/2017

PE Number

TH		Initial		Print First & Last Name	
1	1	1	1		

65,578  
PE Number

TG  
Initial

Reviewed Date: 12/21/2017

69. Survey (1, 0, N)

STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
BRIDGE INSPECTION REPORT

STRUCTURE FILE NUMBER: 1537067

COL  
CO

T0846  
Route

01280  
SLM

COL-T-28238-FRANKLIN TWP  
FIPS

DATE BUILT 07/01/1880 - 1986

District 11 STEEL/TRUSS/THRU

Type of Service

1 12 CONRAIL PENN CENTRAL R-R

23  
SD COL