FINAL

United States Department of the Interior **National Park Service**

National Register of Historic Places Registration Form

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in How to Complete the National Register of Historic Places Registration Form (National Register Bulletin 16A). Complete each item by marking "x" in the appropriate box or by entering the information requested. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

1. Name of Property	
historic name County Line Bridge	
other names/site number Hancock County Bridge #	105
2. Location	
street & number County Road 900E over Big Blue	River NZA not for publication
city or town Morristown	X vicinity
state Indiana code IN county	lancock code 059 zip code N/A
3. State/Federal Agency Certification	
As the designated authority under the National Historic Preservation request for determination of eligibility meets the documentation Historic Places and meets the procedural and professional requirer meets does not meet the National Register criteria. I recommend nationally statewide meets locally. (See continuation sheet to Signature of certifying official/Title Indiana Department of Natural Resource State of Federal agency and bureau	standards for registering properties in the National Register of nents set forth in 36 CFR Part 60. In my opinion, the property mend that this property be considered significant for additional comments.)
In my opinion, the property meets does not meet the Nation comments.)	al Register criteria. (See continuation sheet for additional
3	Date
State or Federal agency and bureau	
4. National Park Service Certification	
I hereby certify that the property is: Sign	ature of the Keeper Date of Action
entered in the National Register. See continuation sheet.	
determined eligible for the National Register See continuation sheet.	
determined not eligible for the National Register.	
removed from the National Register.	
other, (explain:)	
<u> </u>	

County	Line	Bridge	
Name of Pro	perty		

Hancock County, Indiana County and State

5. Classification							
Ownership of Property (Check as many boxes as apply)	Category of Property (Check only one box)	Number of Res (Do not include pre	er of Resources within Property nclude previously listed resources in the count.)				
☐ private	☐ building(s)	Contributing	Noncontributing				
□ public-local	☐ district	0	. 0	buildings			
☐ public-State☐ public-Federal	□ site ⊠ structure	0	0	sites			
_ public r ode.d.	□ object	1	0	structures			
•		0	0 -	objects			
		1	0	Total			
Name of related multiple p (Enter "N/A" if property is not part	roperty listing of a multiple property listing.)	Number of cor in the National	itributing resources Register	previously listed			
N/A		0					
6. Function or Use							
Historic Functions		Current Functions (Enter categories from					
(Enter categories from instructions) TRANSPORTATION/road-related		,	[ON/road-related	d			
7. Description							
Architectural Classification (Enter categories from instructions)		Materials (Enter categories from					
Other: Parker thro	ugh-truss	foundation <u>CONC</u>	RETE				
		walls N/A					
		roof N/A					
			L/iron	**			
		ASPH	ALT				

Narrative Description (Describe the historic and current condition of the property on one or more continuation sheets.)

County	Line	Bridge	
Name of Pro	perty		

Record # _____

Hancock County, Indiana County and State

8. S	atement of Significance								
(Mark	icable National Register Criteria "x" in one or more boxes for the criteria qualifying the property tional Register listing.)	Areas of Significance (Enter categories from instructions)							
IOI INA	tional register listing.	Engineering							
□ A	Property is associated with events that have made a significant contribution to the broad patterns of our history.								
□В	Property is associated with the lives of persons significant in our past.								
X C	Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.	Period of Significance							
	Donat has sighted as in Blocks to sight								
_ D	Property has yielded, or is likely to yield, information important in prehistory or history.	For All Control of the Control of th							
Criteria Considerations (Mark "x" in all the boxes that apply.)		Significant Dates							
		1916							
Prop	erty is:								
□ A	owned by a religious institution or used for religious purposes.	O. 15 P							
□в	removed from its original location.	Significant Person (Complete if Criterion B is marked above) N/A							
□с	a birthplace or grave.		 						
□ D	a cemetery.	Cultural Affiliation N/A							
□ E	a reconstructed building, object, or structure.								
□F	a commemorative property.								
□G	less than 50 years of age or achieved significance	Architect/Builder							
	within the past 50 years.	Cameron, Adolphus							
		Burk Construction Company							
	ative Statement of Significance ain the significance of the property on one or more continuation sheets.	.)							
9. N	lajor Bibliographical References								
Bibil (Cite	ography the books, articles, and other sources used in preparing this form on o	ne or more continuation sheets.)							
-	ious documentation on file (NPS):	Primary location of additional data:							
	preliminary determination of individual listing (36 CFR 67) has been requested previously listed in the National Register previously determined eligible by the National Register designated a National Historic Landmark	 ☒ State Historic Preservation Office ☐ Other State agency ☐ Federal agency ☐ Local government ☐ University ☐ Other 							
	recorded by Historic American Buildings Survey	Name of repository:	-						
	# recorded by Historic American Engineering	Indiana Historic Sites and Structures 1	Inventory						

County Line Bridge Name of Property	Hancock County, Indiana County and State						
10. Geographical Data							
Acreage of Property <u>less than one acre</u>							
UTM References (Place additional UTM references on a continuation sheet.)							
1 1 6 6 1 7 1 8 0 4 3 9 6 2 3 0 Northing 2 1 Northing	3						
Verbal Boundary Description (Describe the boundaries of the property on a continuation sheet.)							
Boundary Justification (Explain why the boundaries were selected on a continuation sheet.)	`						
11. Form Prepared By							
name/title Guy Booth - Community Services Intern							
organization Historic Landmarks Foundation of Ind							
street & number 340 W. Michigan Street	telephone 317-639-4534						
city or townIndianapolis	stateIN zip code46202						
Additional Documentation							
Submit the following items with the completed form:							
Continuation Sheets							
Maps							
A USGS map (7.5 or 15 minute series) indicating the p	property's location.						
A Sketch map for historic districts and properties having	ng large acreage or numerous resources.						
Photographs							
Representative black and white photographs of the p	property.						
Additional items (Check with the SHPO or FPO for any additional items)							
Property Owner (Complete this item at the request of SHPO or FPO.)							
name Hancock County Commissioners							
street & number 9 E. Main Street	telephone317-462-1106						
city or town <u>Greenfield</u>	stateIN zip code46140						
		<u> </u>					

Hancock County, Indiana

Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C. 470 et seq.).

Estimated Burden Statement: Public reporting burden for this form is estimated to average 18.1 hours per response including time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to the Chief, Administrative Services Division, National Park Service, P.O. Box 37127, Washington, DC 20013-7127; and the Office of Management and Budget, Paperwork Reductions Projects (1024-0018), Washington, DC 20503.

National Register of Historic Places Continuation Sheet

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County Line Bridge (Hancock County Bridge #105) crosses the Big Blue River in the southeastern portion of the county and services the north-south road that is the line between Hancock and Rush county lines. The bridge is still used by vehicular traffic and is currently the object of a rehabilitation project, still in the planning phases, undertaken by the Hancock County Commissioners. The bridge is a 200 foot Parker through-truss with a clearance of 15' 5" and is considered a single through because its width is four inches short of the state's lane bridge because its width is four inches short of the state's lane bridge because its width is four inches short of the state's some problems with rust and some members that have separated from the deck, but that the bridge is a good candidate for rehabilitation.

The trusses are comprised of ten panels: each twenty feet wide. (Photo The top chords of the bridge are made of iron I-beams and have seven different slopes. The first slope of the chord is the inclined endpost and changes slope at the second panel. The slope changes again at the third panel, but remains constant through the fourth. sixth panels also share the same slope, which is parallel to the bottom chord, and the top chord then descends in the same order as it rises. The bottom chord of the truss is comprised of four pieces of angle iron, riveted together to form an "H" channel. (Photo 2) the trusses are made from pairs of I-beams that are connected diagonally by iron straps. This changes between the first and second, and corresponding ninth and tenth, panels where the verticals are made of two pieces of angle stock attached with shorter iron straps. (Photo 3) The diagonals in the trusses are made in the same way as these particular The outer diagonals, for panels 2, 3, 8, and 9, stand alone, whereas the middle four panels have two diagonals that cross. verticals and diagonals are connected to the bottom chord by large iron gusset plates, that also serve as the connection points for the floor beams to the chord. (Photo 2) The top chords are connected by panels where the horizontal struts are made from two lengths of angle stock connected by diagonal iron lacing, and individual lengths that cross for the diagonals. (Photo 4)

The 17' 8" wide deck is comprised of 3.5" square timbers that are directly supported by six I-beam and two "C" channels stringers that run the length of the bridge. The deck, at some point, has been asphalted over. The stringers are supported by nine large I-floor beams that are connected to the trusses by the gusset plates. The guard-rails for the bridge are latticework-connected angle stock that are rails for the bridge are riveted to the I-beam verticals. (Photo 5) bolted to angles that are riveted to the I-beam verticals supported the bridge is seated into large concrete abutments that are supported by wood pilings.

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The bridge is in good condition, but the engineer's analysis noted a problem with general rust along the stringers and some of the lateral bracing has deteriorated to the point of falling off. The same rust problem has been noted about the floor beams, but the connections to the gusset plates have remained clean. A large amount of dirt and debris has accumulated in the members of the bottom chord, due to their arrangement. The general alignment of the bridge has remained satisfactory, even with the weakened lateral bracing. The bearing seats for the trusses are in good condition, but the north abutment has undergone scour and has exposed the wood pilings. (Photo 6) The report filed by the engineer was used in consideration of the rehabilitation of the bridge.

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County Line Bridge (Hancock County Bridge #105) is eligible for inclusion to the National Register under Criterion C for its engineering. The bridge is extremely significant as the longest, still surviving Parker through-truss bridge built before the First World War, in Indiana. It is also locally important as the only example of its type found in Hancock County. The bridge is also representative of the advances made in the bridge construction industry around the turn of the century with its notable lack of I-beams, replaced with angle stock, much of which was manipulated and riveted in the field.

The north-south county line road, separating Hancock and Rush counties, notably absent from the 1876 atlas of the state of Indiana, was a significant road, nonetheless, due to the fact that the bridge servicing it previous to 1916 was constructed of iron which required a large investment indeed. During the flooding of January 1916, the bridge, which was deteriorated by some accounts, was washed out. The loss of the bridge concerned the Rush County Commissioners more than their counterparts in neighboring Hancock County. When asked for a joint meeting of the two groups, the Hancock Commissioners elected to have the session two months later in April. interim, the Rush County fathers had the county engineer, Adolphus Cameron, draw up plans and specifications for the new bridge, and the group also allocated \$15,000 for its construction. When the two commissions finally met, the Hancock commissioners quickly agreed to accept their directives.

After bids were gathered, the firm chosen to build the new bridge was the Burk Construction Company of New Castle, Indiana. The Burks' bid of \$11,000 was the lowest and they agreed to have the bridge completed by October 1, of that same year. The actual designer of the bridge is still a bit of conjecture. Adolphus Cameron did draw up the preliminary plans, and with a degree in Civil Engineering from Purdue University, he was probably able to come up with a fairly specific design. The Burks', having the Pan-American Bridge Company as their home-base fabricator, had a good designer, Warren Converse, working with them. It is probably the case that both Cameron and Converse's knowledge and talent were combined to design this large, complicated bridge.

The County Line Bridge is an example of a Parker through-truss - the only one found in Hancock County, and one of less than thirty that still survive in Indiana. The Parker truss is essentially a modified Pratt truss. The Pratt truss is noted for its vertical components acting in compression and the diagonals in tension, and the Parker truss has the same features, but the top chord is polygonal rather than straight.

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James L. Cooper, author of the comprhensive survey <u>Iron Monuments to</u> <u>Posterity: Indiana's Metal Bridges, 1870 - 1930</u>, noted, in a separate history of this particular bridge, a few unusual design elements. The width of the panels, at twenty feet, is just eight inches short of the longest panel width of all of Indiana's extant pre-1930 Parker throughtrusses. At the same time, the top chord of the bridge, at the middle two panels, is parallel to the bottom chord which is a feature more normally associated to the five slope chord of the Camelback bridge.

It is Cooper's history that also brings to light the important advances in bridge construction. The foremost of these is the lack of I-beams in the design of the bridge. The majority of these components are found in the deck of the bridge, and the only truss I-beams are found in the top chords and the verticals. The rest of the truss, including all bracing and webbing, are made of various sizes of angle and flat stock. At the same time, the trusses of this bridge were too long to have been completely constructed at the shop and then transported to the site. Therefore, the entire length of the trusses must have been field-riveted. As Cooper notes, "...while field-riveting was not unusual by 1916, riveting connections for trusses as long and heavy as these on the site was still a tricky business for highway bridge erectors." (pg. 6)

While the sheer length of this bridge added to its age makes it a remarkable example of excellent engineering, the additional advances in bridge fabrication it represents clearly denotes a need for recognition. In November of 1993, the Hancock County Commissioners voted to rehabilitate this important bridge.

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- Barker, James. <u>Inspection Report: Hancock County Bridge #105.</u>
 Unpublished, 1993.
- Cooper, James L. County Line Bridge over the Big Blue River (Hancock County Bridge #105). Unpublished, 1993.
- ---. <u>Iron Monuments to Distant Posterity: Indiana's Metal Bridges,</u>
 <u>1870-1930.</u> Indianapolis: Pierson Printing, 1987.

National Register of Historic Places Continuation Sheet

Section number 10 Page 6 County Line Bridge, Hancock County, Indiana

Verbal Boundary Description:

The County Line Bridge is located on County Road 900E which is the county line between Hancock and Rush county. The bridge is approximately 4000 feet north of the Hancock - Shelby county line. The boundaries include the bridge in its entirety and an additional fifteen feet of road on each side of the bridge, starting from the bottom of the endposts.

Boundary Justification:

These boundaries have been chosen to ensure the inclusion of the entire bridge and any below-ground sections of the concrete abutments.