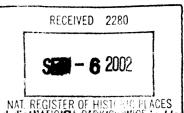
NPS Form 10-900 OMB No. 10024-0018

United States Department of the Interior National Park Service

National Register of Historic Places Registration Form

1136



This form is for use in nominating or requesting determination for individual properties and districts (See Aristruction in Holy 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 West P	lum Bush Cree	ek Bridge				
other names/site number CDOT No. F-22-B; 5WN115						
2. Location						
street & number US H	lighway 36 at r	nilepost 1	34.59			[N/A] not for publication
city or town Last Chance						[X] vicinity
state Colorado	code <u>CO</u>	_ county _	Washington	code	121	zip code
3. State/Federal Ager	ncy Certification	on				
National Register of Histori my opinion, the property [considered significant [] n	for determination ic Places and mee [X] meets [] doe ationally [] statew lal/Title	of eligibility ets the process not meet vide [X] local	meets the document dural and profession the National Regist ly. ([]] See continua State Historic Preserva	ation stand nal requirer er criteria. ation sheet	lards for ad	or registering properties in the set forth in 36 CFR Part 60. In ommend that this property be
In my opinion, the property			e National Register o	criteria.		
Signature of certifying official/Title Date						
State or Federal agency and bureau						
4. National Park Serv I hereby certify that the property is [] entered in the National R [] See continuation s [] determined eligible for th National Register [] See continuation s [] determined not eligible for National Register. [] removed from the National Register [] other, explain [] See continuation s	s: Register sheet. ne sheet. or the	on 	Signature of five Ke	A Dec	el)	Date of Action

Name of Property	County/State	County/State				
5. Classification						
Ownership of Property (Check as many boxes as apply) Category of Property (Check only one box)		Number of Resources within Property (Do not count previously listed resources.) Contributing Noncontributing				
[] private [] public-local [X] public-State	[] building(s) [] district [] site	0	0	buildings		
[] public-Federal	[X] structure	0	0	sites		
		1	0	structures		
		0	00	_objects		
		1	0	Total		
Name of related multiple property listing. (Enter "N/A" if property is not part of a multiple property listing.)			Number of contributing resources previously listed in the National Register.			
Highway Bridges in Colora	<u></u>	0	_	_		
6. Function or Use						
Historic Function (Enter categories from instructions)		Current Function (Enter categories from instru				
		Road-related				
7. Description						
Architectural Classificatio (Enter categories from instructions)		Materials (Enter categories from instru	ctions)			
Other: Concrete rigid frame		foundation walls				
		roofother Concrete				
		Asphalt				

Washington County, Colorado

West Plum Bush Creek Bridge

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

West Plum Bush Creek Bridge Name of Property		Washington County, Colorado County/State			
8. S	tatement of Significance				
Applicable National Register Criteria (Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing.)		Areas of Significance (Enter categories from instructions) Transportation			
[X] A	A Property is associated with events that have made a significant contribution to the broad patterns of our history.	Engineering			
[] B	Property is associated with the lives of persons significant in our past.	Periods of Significance			
[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.	1938-1952 Significant Dates			
[] D	Property has yielded, or is likely to yield, information important in prehistory or history.	N/A			
Criteria Considerations (Mark "x" in all the boxes that apply.)		Significant Person(s) (Complete if Criterion B is marked above).			
Prop	perty is:	N/A			
[] A	owned by a religious institution or used for religious purposes.				
[] B	removed from its original location.	Cultural Affiliation N/A			
[] C	a birthplace or grave.	TV/			
[] D	a cemetery.				
	a reconstructed building, object, or structure.	Architect/Builder			
	a commemorative property.	Colorado Department of Highways Peter Kiewit Sons Construction Company			
G less than 50 years of age or achieved significance within the past 50 years.		- eter ricent dons construction company			
Narr (Explain	rative Statement of Significance the significance of the property on one or more continuation sheets.)				
9. M	ajor Bibliographical References				
Bibli (Cite the	iography e books, articles and other sources used in preparing this form on one or more co	ontinuation sheets.)			
Prev	rious documentation on file (NPS):	Primary location of additional data:			
[] preliminary determination of individual listing (36 CFR 67) has been requested		[X] State Historic Preservation Office [X] Other State Agency			
[] previously listed in the National Register		[] Federal Agency			
[] previously determined eligible by the National Register [] designated a National Historic Landmark		[] Local Government			
	rded by Historic American Buildings Survey	[] University [] Other			
#		Name of repository: Colorado Historical Society Colorado Dept. of Transportation			

West Plum Bush Creek Bridge Name of Property	Washington County, Colorado County/State				
10. Geographical Data		·			
Acreage of Property less than one					
UTM References (Place additional UTM references on a continuation sheet.)					
1. 13 618998 4399595	3.				
Zone Easting Northing	Zone Ea	sting Northing			
2.	4.	ation Northing			
Zone Easting Northing		sting Northing			
	[] See contin	uation sheet			
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.)					
(Explain why the boundaries were selected on a continuation sheet.)					
11. Form Prepared By					
name/title Office of Archaeology and Historic Pro	eservation and Clay	raser, principal			
organization Colorado Historical Society and Fra	ser Design	date <u>May 21, 2002</u>			
street & number 1300 Broadway telephone 303-866-4681					
city or town <u>Denver</u>	state CO	zip code <u>80203</u>			
Additional Documentation					
Submit the following items with the completed for	orm:				
Continuation Sheets					
Maps A USGS map (7.5 or 15 minute series) indicating the properties having the properties have been properties and properties have been properties and properties having the properties have been properties and properties have been properties having the properties have been properties and properties have been properties have been properties and properties have been properties and properties have been properties have been properties and properties and properties have been properties and properties and properties and properties and properties and properties and properties are properties and properties and properties are properties and properties and properties are properties and properties are properties and properties are properties and properties and properties are properties are properties and properties are		us resources.			
Photographs Representative black and white photographs of the 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 Colorado Department of Transportation					
street & number 4201 E. Arkansas Avenuetelephone					
city or town Denver	state_CO	zip code <u>80222</u>			

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 USC. 470 et seq.

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Section number 7 Page 1

West Plum Bush Creek Bridge Washington County, Colorado Highway Bridges in Colorado, MPS

DESCRIPTION

Location: US Highway 36 at milepost 134.59, 31.8 miles east of the junction with Interstate Highway 70.

Setting: The east-west bridge crosses West Plum Bush Creek in open high plains grasslands.

Structure length: 72 feet Structure width: 33.5 feet Roadway width: 30 feet

Main span number: 1 Main span length: 58 feet

Superstructure: Concrete rigid frame

Substructure: Concrete abutments and wingwalls Floor/decking: Concrete deck with asphalt overlay

Other features: Colorado Department of Highways standard slotted concrete guardrails

Erected: 1938

Designer: Colorado Department of Highways

Fabricator: None

Contractor: Peter Kiewit Sons Construction

Alterations: None

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West Plum Bush Creek Bridge Washington County, Colorado Highway Bridges in Colorado, MPS

SIGNIFICANCE

The 1938 West Plum Bush Creek Bridge on US Highway 36, just west of Last Chance, meets the registration requirements under Criteria A and C as set forth in *Highway Bridges in Colorado*, Multiple Property Documentation Form. The bridge is eligible in the area of transportation for its association with the development of US Highway 36, an important tourist and commercial route linking Denver and the eastern plains of Colorado with communities in Kansas and the Midwest. The period of significance begins in 1938 with the completion of the bridge and extends through its historic use to 1952, a date fifty-years-of-age in keeping with National Register criteria.

The West Plum Bush Creek Bridge is also eligible in the area of engineering. The bridge is a particularly well preserved example of a concrete rigid frame bridge. Concrete rigid frame bridges could carry heavy loads and their basic design permitted modification in span length and skew. The West Plum Bush Creek is a rare surviving example of the type in rural Colorado.

BRIDGE ENGINEERING

The first concrete rigid frame bridge in America was designed in 1922 by engineer Arthur G. Hayden for the park commission of Westchester County, New York. Comprised of a concrete beam superstructure tied rigidly to the abutments with steel reinforcing bars, rigid frame bridges differed materially from conventional simply supported spans. "A clear conception of a typical rigid frame concrete bridge may be obtained by first visualizing an ordinary simple span bridge supported by bearing on two abutments," a 1935 concrete manual stated. "If the bearing is replaced with concrete that continues monolithically from the abutments to the deck, the altered structure becomes a frame with rigid corners—a structure generally called a *rigid frame concrete bridge*." Because its construction was relatively labor-intensive, this bridge configuration became popular for federal relief projects during the 1930s. Both picturesque and practical, the flat-arch design appealed to proponents of urban beautification, and rigid frames found widespread use in city parks and landscaped boulevards. By 1935 more than three hundred rigid frames had been built in America, most in urban areas. Early rigid frame bridges were limited in span length, but by 1937 the Schmitz Park Bridge in Seattle featured a single 175-foot span.

Concrete rigid frame bridges were well suited to urban applications with large traffic volumes and moderate span lengths, where rigidity under load was of prime importance. Their basic design was easily modified. Using a standard profile and reinforcing configuration, a series of bridges could be built over a fairly wide range of span lengths. They could be readily skewed to accommodate angled intersections. Their flat or slightly arched undersides provided adequate under-bridge clearance. And they could be subsequently widened to accommodate

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West Plum Bush Creek Bridge Washington County, Colorado Highway Bridges in Colorado, MPS

increased traffic. Further, the bridges could be cast plainly or adorned with a variety of applied concrete or metal ornamentation.

The City of Denver was the first government entity known to construct rigid frame bridges in Colorado, with a few two-span structures over Cherry Creek built in the 1920s. In the late 1930s the Colorado Highway Department experimented with rigid frame design, building relatively small-scale structures at rural locations around the state. However, rigid frame bridges were never commonly built in Colorado outside of Denver. Only ten such structures were identified by the 2000 statewide historic bridge inventory. Of these, the West Plum Bush Creek Bridge is distinguished by its handsome proportions and excellent state of preservation.

CONSTRUCTION HISTORY

Beginning with the Omaha-Lincoln-Denver Highway and continuing with the Lincoln Highway, the Midland Trail, the Ocean-to-Ocean Highway, and the Old Trails Highway, several east-west transcontinental highways crossed Colorado's eastern plains in the 1910s. In the 1920s, the State Highway Commission tied these with the national highway system, forming (from north to south) US Highways 38, 40 North, 40 South and 50. The last of the national east-west routes designated in eastern Colorado was US Highway 36. The highway extended due east from Denver, across Adams, Washington and Yuma counties to the Kansas state line. US 36 had first been established in the 1920s as State Highway 102.

In western Washington County in 1926, local entrepreneurs Essa Harbert and Archie Chapman opened a gas station along the road equidistant from Brush, Strasburg and Limon. They put up signs advertising their business as the last chance to buy gas for some distance and soon started attracting tourist business. From this the small town of Last Chance developed.

In the mid-1930s the State Highway Department undertook a major improvement of the route, upgrading it from a dirt road to a graded highway. For bidding purposes, CHD divided construction into relatively short sections under the umbrella of Federal Aid Project 351. FAP 351-E(I) involved several miles of highway construction through Last Chance. Included in the work were several bridges over Beaver Creek, Plum Bush Creek and their tributary streams. One of these spanned West Plum Bush Creek just west of town. The crossing was comprised of a single concrete rigid frame span, 58 feet in length, rigidly tied to supporting concrete abutments. The concrete deck was flanked on both sides by integrally poured concrete curbs and CHD standard slotted guardrails. CHD awarded the contract to build the West Plum Bush Creek Bridge to the Peter Kiewit Sons Construction Company. Kiewit completed the bridge in 1938. It has functioned in place since in essentially unaltered condition.

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National Park Service

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West Plum Bush Creek Bridge Washington County, Colorado Highway Bridges in Colorado, MPS

BIBLIOGRAPHY

Fraser, Clayton B. "West Plum Bush Creek Bridge, 5WN115," Historic Bridge Inventory, 31 March 2000.

Fraser, Clayton B. Field inspection November 1998.

Fraser, Clayton B. "Highway Bridges in Colorado," National Register of Historic Places Multiple Property Documentation Form, March 30, 2000.

Colorado Department of Transportation, Structure Inventory and Appraisal: Structure No. F-22-B. Located at CDOT, Denver, Colorado.

Colorado Highway Department. Bridge Kardex File. Located at CDOT Bridge Division, Denver, Colorado.

GEOGRAPHICAL DATA

VERBAL BOUNDARY DESCRIPTION

The West Plum Bush Creek Bridge is located on US Highway 36 at milepost 134.59. The boundaries of this nomination consist of a rectangle of land 10 feet out in each direction from the footprint of the bridge.

BOUNDARY JUSTIFICATION

The nomination includes all the land directly and historically associated with the bridge.

PHOTOGRAPH LOG

The following information pertains to photograph numbers 1-2:

Name of Property: West Plum Bush Creek Bridge

Location: Washington County, Colorado

Photographer: Clayton Fraser Date of Photographs: November 1998

Negatives: Colorado Department of Transportation

Photo No. Photographic Information

- 1 Looking across bridge and down highway; view to the east.
- 2 View to the northeast from the west bank of West Plum Bush Creek Bridge.

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West Plum Bush Creek Bridge Washington County, Colorado Highway Bridges in Colorado, MPS

USGS TOPOGRAPHIC MAP

Last Chance Quadrangle, Colorado 7.5 Minute Series, 1973

UTM: Zone 13 / 618998E / 4399595N

PLSS: 6th PM, T3S, R56W, Sec. 36, SW SW SW Qtr. 6th PM, T4S, R56W, Sec. 1, NW NW NW Qtr.

Elevation: 4,780 feet

