

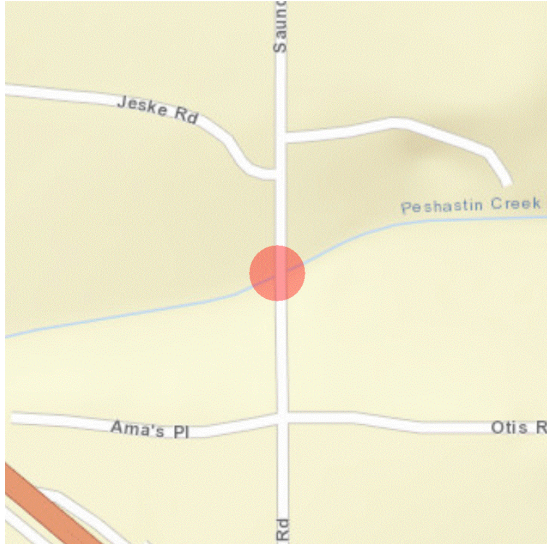


Historic Property Report

Resource Name: Peshastin Creek-Saunders Bridge
(08280900)

Property ID: 719045

Location



Geographic Areas: Chelan County, T24R18E21, PESHASTIN Quadrangle

Information

Number of stories: N/A

Construction Dates:

Construction Type	Year	Circa
Built Date	1920	<input type="checkbox"/>

Historic Use:

Category	Subcategory
Transportation	
Transportation	

Historic Context:

Category
Transportation

Architect/Engineer:

Category	Name or Company
Builder	Union Bridge Company
Engineer	Daniel B. Luten
Engineer	John D. Duff



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Thematics:

Local Registers and Districts

Name	Date Listed	Notes
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Project History

Project Number, Organization, Project Name	Resource Inventory	SHPO Determination	SHPO Determined By, Determined Date
2019-05-03827, WSDOT, Chelan County Historic Bridge Inventory - W. Cashmere Bridge MOA	5/31/2019		

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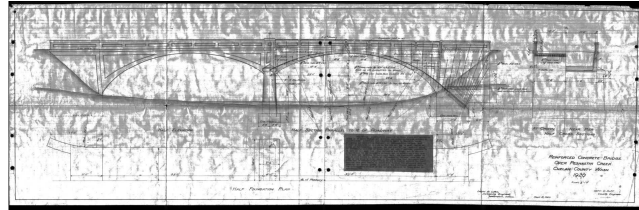
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Photos



SI-4~E~E~Elevation~2011-10-04_.jpg



asbuiltplans.JPG



SI-44~G~UP~Typical_Leaching_along_Construction_Joint_in_Arch~2017-10-17_.jpg



SI-42~D~N~Deck_Looking_North~2017-10-17_.jpg



SI-29~I~S~Partially_Repaired_Pier_Cap~2013-10-10_.jpg



SI-7~I~W~Deterioration_on_Top_of_Pilaster~2011-10-04_.jpg

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SI-3~D~N~Deck~2011-10-04_.jpg



SI-1~~SW~Weeping_at_arch_launch_~2007-10-16_.jpg



20190115_085939.jpg



20190115_085801.jpg



20190115_085748.jpg



20190115_085649.jpg



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Inventory Details - 5/31/2019

Common name: Peshastin Creek-Saunders Bridge (08280900)

Date recorded: 5/31/2019

Field Recorder: Stephen Austin

Field Site number:

SHPO Determination

Detail Information

Characteristics:

Category	Item
Foundation	Concrete - Poured
Form Type	Bridge - Arch

Surveyor Opinion

Property appears to meet criteria for the National Register of Historic Places: Yes

Property is located in a potential historic district (National and/or local): No

Property potentially contributes to a historic district (National and/or local): No

Significance narrative: The Peshastin Creek-Saunders Bridge (08280900) is eligible for the National Register of Historic Places under Criterion C as an intact representation of a double barrel earth-filled Luten Arch Bridge designed by nationally famous bridge engineer, Daniel B. Luten. Constructed in 1920, the structure is one of two confirmed "Luten Arches" in Chelan County, both built in the early 1920s by the same company. Genuine Luten designed arch bridges are increasingly rare in the state as few patented Luten Arches remains on Washington roads. Repairs to its handrail performed with dissimilar concrete detract from its integrity of materials and feeling. However, the bridge retains the majority of its integrity of location, workmanship, design, and setting.

Erected by the Union Bridge Company of Buffalo, New York in 1920 and designed by Indianapolis-based bridge engineer Daniel Benjamin Luten, the Peshastin Creek-Saunders Bridge is one of two authentic earth-filled Luten Arches located in Chelan County. Due to its ownership, few records detailing its construction were available. A single as-built sheet reports that Daniel B. Luten was the designing engineer. Chelan County Engineer John D. Duff approved the plans in September 1920. The single plan sheet called for a 110-foot long double barrel concrete arch bridge with reinforcing rods placed throughout its superstructure. Aesthetic embellishments included embossed paneling and oriental caps on its exterior pier. A steel plaque located on the structure's south end reports that the Union Bridge Company constructed the bridge on behalf of Chelan County. The bridge is in good physical condition and retains a high degree of all seven aspects of integrity.



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Physical description:

The Peshastin Creek-Saunders Bridge is a 110-ft. long reinforced concrete Luten Arch with two 11-ft. approach spans. The bridge crosses Peshastin Creek approximately 1.5-miles southeast of the unincorporated town of Peshastin, located in eastern Chelan County. The structure is oriented north-south and is comprised of reinforced concrete and earthen fill. Plan drawings are limited to a single profile view but depict its concrete reinforcing, earthen fill, two 136-ft. concrete half-wall railings, and approaches, arches, and single instream bent.

Signs of its boardform construction are visible along the interior of each arch barrel. Some minor spalling is visible on each pier cap and at the connection points between its approaches and main arch span. The bridge possesses minor embossed panels on the exterior of its rails and arch barrel. Its single monolithic concrete support bent possesses a decorative column on its west and east elevations. Its original concrete half-wall railings are intact but possess heavily degraded handrails. Repairs to its column caps are grossly apparent as they have been made with dissimilar concrete. Significant spalling is also visible on the exterior of both railings. Major cracking is visible in the exterior of both abutments. A metal plaque located on the west approach end reads,

1920

Chelan County
Commissioners
GEO. V. Milham
E.F. Cadman
E.C. Long

John Duff
County Engineer

Built by
Union Bridge Company

A conditional note attached to its plan drawing stipulated the required percentage and payment owed to Daniel Luten for use of his patented design:

"The bridge construction required by these plans and specification is of Luten Design and includes improvements, devices, methods of construction, inventions and copyrights owned by Daniel B. Luten. Designing and consulting designers of Indianapolis, Indiana. Each bidder is directed to include in his bid and pay to said Daniel B. Luten at Indianapolis Indiana, ten per- cent of the contract price of everything included in those plans and specification, payments to be made at the same time that estimates are drawn, an in amounts proportional to the estimates allowed; and by sustaining a bid span this work and agreeing to build said work, the contractor agrees to pay to said Daniel B. Luten, at Indianapolis Indiana, said ten per-cent of the owner total cost at the same time that estimates are drawn and in amounts proportional to the estimates allowed the contractor. The said Daniel B. Luten will furnish the necessary working drawings and hereby agree to protect the contractor against suits for infringement because of any patents required by those plans and specifications."

Bibliography:

Bridge Engineering Information System (BEIS). Peshtatin Crk-Saunders 08280900. Plan drawings, inspection reports and photos. Online, Tumwater.
<http://beist/InventoryAndRepair/Inventory/BRIDGE/Details/Index/754aa565-abf1-4f15-8f96-593cc3dca4cb>

Purdue University. "Luten, Daniel B., 1869-1946." Archives and Special Collections. Accessed March 2019. <https://archives.lib.purdue.edu/agents/people/982>



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