United States Department of the Interior National Park Service

National Register of Historic Places
Registration Form

FEB 2 | 1995 PRECUMARKY

This form is for use in nominating or requisiting attendance to

This form is for use in nominating or requesting determinations of Harving Compete the National Register of Historic Places Registering State and Indianal Register of Historic Places Registering State (1997) the Historic Places Registering State

historic name _ Lake Keechelus Snowshed Bridge  other names/site number _ WSDOT 90/110  2. Location  street & number _ Interstate Route 90, near Snoqualmie Pass not for publication city or town _ Hyak xiz vicinity  state _ Washington code _ WA county _ Kittitas code _ 037 _ zip code _ 98026  3. State/Federal Agency Certification  As the designated authority under the National Historic Preservation Act, as amended, I hereby certify that this \( \tilde{\text{N}} \) nomination  As the designated authority under the National Historic Preservation Act, as amended, I hereby certify that this \( \tilde{\text{N}} \) nomination  As the designated authority under the National Historic Preservation Act, as amended, I hereby certify that this \( \tilde{\text{N}} \) nomination  As the designated authority under the National Register of Historic Places and meets the or the Additional Register of Historic Places and meets the procedural and protessional requirements set forth in 36 CFR Part 60. In my opinion, the property \( \tilde{\text{S}} \) meets \( \tilde{\text{Oscintarion}} \) described in the National Register of the National Register of the National Register.    Signature of certifying official/Title	1. Name of Property	
Street & number Interstate Route 90, near Snoqualmie Pass	historic name <u>Lake Keechelus Snowshed Bridge</u>	
Interstate Route 90, near SnoqualInie Pass	other names/site number <u>WSDOT 90/110</u>	
state Washington code WA county Kittitas code 037 zip code 98026  3. State/Federal Agency Certification  As the designated authority under the National Historic Preservation Act, as amended, I hereby certify that this © nomination request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property of entitying official/Title bate  Signature of certifying official/Title bate  State of Federal agency and bureau  In my opinion, the property meets of does not meet the National Register criteria. (See continuation sheet for additional comments.)  Signature of certifying official/Title bate  State or Federal agency and bureau  4. National Park Service Certification  Intereby certify that the property is:  See continuation sheet.  determined eligible for the National Register.  See continuation sheet.  determined eligible for the National Register.  See continuation sheet.  determined eligible for the National Register.  Permoved from the National	2. Location	
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As the designated authority under the National Historic Preservation Act, as amended, I hereby certify that this ☑ nomination ☐ request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property ☑ meets ☐ does not meet the National Register criteria. I recommend that this property be considered significant ☐ nationally ☐ statewide ☑ locally, ☐ See continuation sheet for additional comments.)  Signature of certifying official/Title ☐ Date  State of Federal agency and bureau  In my opinion, the property ☐ meets ☐ does not meet the National Register criteria. (☐ See continuation sheet for additional comments.)  Signature of certifying official/Title ☐ Date  State or Federal agency and bureau  4. National Park Service Certification  I hereby certify that the property is: ☐ Signature of the Keeper ☐ Date of Action ☐ Date ☐ Da	city or town <u>Hyak</u>	x⊠ vicinity
As the designated authority under the National Historic Preservation Act, as amended, I hereby certify that this \( \tilde{\tild	state <u>Washington</u> code <u>WA</u> county <u>Kittitas</u>	code <u>037</u> zip code <u>98026</u>
request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR property   meets   does not meet the National Register criteria. I recommend that this property be considered significant   nationally   statewide   locally. (  See continuation sheet for additional comments.)    Signature of certifying official/Title   Date	3. State/Federal Agency Certification	
State or Federal agency and bureau  4. National Park Service Certification  I hereby certify that the property is:  — 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	In my opinion, the property   In my opinion    In my opinion    In my opinion    In my opinion    In my opinion    In my opinion    In my opinion    In my opinion    In my opinion    In my opinion    In my opinion    In my opinion    In my opinion    In my opinion    In my opinion    In my opinion    In my opinion    In my opinion    In my opinio	nts.)
A. National Park Service Certification    hereby certify that the property is:	Signature of certifying official/Title Date	
I hereby certify that the property is:    Antered in the National Register.   Signature of the Keeper   Signature of the K	State or Federal agency and bureau	
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	4. National Park Service Certification	
National Register.	entered in the National Register.  See continuation sheet.  determined eligible for the National Register	Date of Action 5/24/95
	determined not eligible for the	
	removed from the National Register.	
Other, (explain:)	Other, (explain:)	

Lake	Keechelus	Snowshed	Bridge
Name o	f Property		

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The state of the s	County and State
the transfer of the second	

5. Classification				
Ownership of Property (Check as many boxes as apply)	Category of Property	Number of Res (Do not include pre-	ources within Property viously listed resources in the	ty ne count.)
☐ private ☐ public-local ☑ public-State ☐ public-Federal	<ul> <li>□ building(s)</li> <li>□ district</li> <li>□ site</li> <li>☑ structúre</li> <li>□ object</li> </ul>			structures
Name of related multiple p (Enter "N/A" if property is not part "Bridges of Washingto "Historic Bridges & T	property listing of a multiple property listing.) on State, 1941-1950" Cunnels in Washington State	Number of con in the National	tributing resources pi Register	
6. Function or Use				
Historic Functions (Enter categories from instructions)		Current Functions (Enter categories from		
Transportation/rail-r	elated/bridge	Transportation	n/rail-related/br	'1dge
7. Description				
Architectural Classification (Enter categories from instructions)		Materials (Enter categories from	instructions)	
Other: concrete rigid frame		walls		· · · · · · · · · · · · · · · · · · ·
			е	

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

Kittitas,	Washington
County and Sta	

0 0	tatement of Significance	
Appl	icable National Register Criteria "x" in one or more boxes for the criteria qualifying the property	Areas of Significance
	tional Register listing.)	(Enter categories from instructions)
	3 ,	Engineering
	Property is associated with events that have made	
	a significant contribution to the broad patterns of	
	our history.	
	•	
	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	Pariod of Cignificance
	distinguishable entity whose components lack	Period of Significance
	individual distinction.	1950
	Books of the Collection Collection Collection	
ט ט	Property has yielded, or is likely to yield,	
	information important in prehistory or history.	
Crito	ria Considerations	
	"x" in all the boxes that apply.)	Significant Dates
`	,	1950
Prope	erty is:	
	owned by a religious institution or used for	
	religious purposes.	
_		Significant Person
⊔В	removed from its original location.	(Complete if Criterion B is marked above)
		n/a
⊔С	a birthplace or grave.	
		Cultural Affiliation
ט ו	a cemetery.	n/a
	a reconstructed building, object, or structure.	
	a reconstructed building, object, or structure.	
	a commemorative property.	
	an activities and a property	
X G	less than 50 years of age or achieved significance	Architect/Builder
	within the past 50 years.	State of Washington, Dept. of Highways
Narra	tive Statement of Significance	
(Explai	in the significance of the property on one or more continuation sheets.)	
9. M	ajor Bibliographical References	
Bibile	ography	
•	ne books, articles, and other sources used in preparing this form on one	
Previ	ous documentation on file (NPS):	Primary location of additional data:
	preliminary determination of individual listing (36	State Historic Preservation Office
	CFR 67) has been requested	🔂 Other State agency
	previously listed in the National Register	☐ Federal agency
	previously determined eligible by the National	Local government
	Register	☑ University
	designated a National Historic Landmark	☐ Other
	recorded by Historic American Buildings Survey	Name of repository:
_	#	Washington State Dept. of Transp., Bridge
	recorded by Historic American Engineering	Condition Unit, Olympia, WA; AHS, Eastern
	Record #	Washington University, Cheney, WA

Lake Keechelus Snowshed Bridge Name of Property	Kittitas, Washington County and State
10. Geographical Data	
Acreage of Property less than one acre	
UTM References (Place additional UTM references on a continuation sheet.)	
1 10 6 2 3 4 9 0 5 2 4 5 7 4 0 Northing 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3
(Describe the boundaries of the property on a continuation sheet.) Inter	t of Snoqualmie Pass, Washington.
11. Form Prepared By	
name/title Robert H. Krier, J. Byron Barber, Rob	in Bruce, Craig Holstine, AHS
organization AHS, Eastern Washington University	date 16 December 1991
street & number MS-168 Monroe Hall	telephone (509) 359-2284
city or town Cheney	state <u>WA</u> zip code <u>99004</u>
Additional Documentation Submit the following items with the completed form:	
Continuation Sheets	
Maps	
A USGS map (7.5 or 15 minute series) indicating the	property's location.
A Sketch map for historic districts and properties have	ving large acreage or numerous 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.)	

**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.).

\_\_\_\_ state \_\_\_\_ zip code \_\_\_

street & number \_\_\_\_\_\_ telephone \_\_\_\_

city or town \_\_

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.

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

# National Register of Historic Places Continuation Sheet

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### 7. Physical Description.

In March 1950, the Washington Department of Highways awarded a contract to construct a reinforced concrete snowshed at Lake Keechelus located on the east side of Snoqualmie Pass on Primary State Highway No. 2 (now designated Interstate 90). Included in the contract was construction of similar structure at Airplane Curve, on the same highway but located on the west side of Snoqualmie Pass. The structure at Airplane Curve was subsequently removed in the early 1980s and other measures were taken to contain the snow and slide material.

The present 500-foot-long structure at Lake Keechelus replaced an existing timber snowshed that was 419 feet long. The purpose of the snowsheds was to provide permanent protection for traffic and relieve costly snow and slide removal at those critical locations. With the removal of the snowshed at Airplane Curve, the Lake Keechelus snowshed became the only snowshed remaining on the state highway system.

The structure consists of a girder-slab (T-beam) roof secured to a continuous open spandrel, column and parabolic beam support on the downward side of the slide area. The uphill side is supported by a 30-foot-high counterfort wall abutment. The roof span is 34 feet covers the two westbound lanes of traffic and a three foot sidewalk. When a snow slide moves across the roof, it is deposited on the two eastbound lanes, during which times both eastbound and westbound traffic use the covered roadway. At each end of the structure are portals bearing Art Deco detailing. Raised cast concrete panels form a false front disguising the utilitarian shed roof behind. The panels rise in height to the centers of the portals, over which incised vertical parallel grooves accentuate the rise of the highest panel. Below the grooves, the date of construction is stamped in the concrete.

During the first years after completion, it was found that the structure [provided satisfactory protections from snow and slide interference. However, during excessive snow slides, the buildup of snow on the side of the open spandrel sloughed back onto the roadway under the covered portion. To alleviate this problem, in 1956, a snow fence was attached to the open spandrel for its full length.

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

# National Register of Historic Places Continuation Sheet

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#### 8. Statement of Significance.

The Lake Keechelus Snowshed Bridge is eligible for inclusion in the National Register of Historic Places under Criterion C. Completed in 1951, the bridge is significant as one of a type, the sole remaining snowshed on the state highway system. Located on Heavily traveled Interstate 90 (I-90), the structure is important for protecting motor vehicle traffic from snow slides along this high elevation section of the I-90 corridor. Its construction also exemplifies innovative use of materials (multiple pre-cast roof units) to expedite construction where elevation and attendant vagaries of weather limit the working season. Its prosaic shed roof is artfully disguised by stylized Art Deco portal openings whose vertical elements echo the precipitous sweep of the surrounding landscape.

The Lake Keechelus Snowshed Bridge is locate on I-90 near the summit of Snoqualmie Pass, one of Washington State's most heavily traveled mountain passes. At this high elevation site, favorable working conditions are limited to a short summer period. In order to take advantage of the limited construction season, the rood of the structure was designed to be fabricated and erected in multiple pre-cast units. This structure probably represents the first time that pre-cast construction was used for highway structures.

Begun in 1950, the Lake Keechelus structure was completed about September 1951, at a cost of \$342,000. William A. Bugge was the Director of Highways. George Stevens was the Bridge Engineer.

#### 9. Major Bibliographical References.

Washington State Department of Highways. Biennial Reports, 1948–1950, 1950–1952.

Washington State Department of Transportation (WSDOT). Lake Keechelus Snowshed Bridge plans, dated 30 January 1950, on file in the Bridge Preservation Office, WSDOT, Olympia, Washington.

WSDOT. "Bridge Condition Card—Lake Keechelus Snowshed Bridge," 26 July 1950, on file in the Bridge Preservation Office, WSDOT, Olympia, Washington.