Federal Highway Bridge Program Project Application

Please send copies of the load ratings summary, accident data, any other pertinent information, and electronic photos (640 x 480 pixels minimum .JPG) with this questionnaire by the due date specified in the cover letter.

Agency Name:	Pick one of the following	
Bridge Name:	Replacement Candid	ate
Bridge Number:	Rehabilitation Candi	date
Contact Person:	Scour Mitigation	
Phone: () -	Seismic Retrofit	
Sufficiency Rating:	Painting	Bundled
Structure ID:	Deck Repair	Project

Brief Project Description (including bridge replacement type)

Proposed Length: Width (Curb to Curb): Current Year:

Rehabilitation/Replacement/Seismic/Paint/Scour Projects

PE Costs (approximately 25% of total)

(Soils, Environmental, Design Documents, Plans Preparation, etc.)

Right of Way Costs

(Purchases, Relocation and Construction Easement)

Construction Costs

(Environmental mitigation, approach costs (15%), structure costs, etc.)

Construction Engineering (18%)

Contingency (15%)

Mobilization (10%)

Inflation Factor (5% per year, based on projected Ad date below)

Total Rehabilitation/Replacement/Preventative Maintenance Project Costs:*

If a Rehabilitation, what would be the Replacement cost for that same structure (including PE, Right of Way, and Construction)?

Project Milestones	Scheduled		Scheduled
Project Added to Local Agency TIP	M/Y /	Right of Way Start	M/Y /
Project Added to Regional TIP	M/Y /	Right of Way Complete	M/Y /
Project Added to STIP	M/Y /	Geometric/30% Design Complete	M/Y /
Project Definition Begin PE	M/Y /	General Plan/60% Design Complete	M/Y /
NEPA Kick Off	M/Y /	Advertisement	M/Y /
Environmental Docs Approved	M/Y /	Contract Awarded	M/Y /
Provide comments belo	ow	Open to Traffic	M/Y /

Comments

BRIDGE INSPECTION REPORT

Status: Released Printed On: 4/23/2019 Agency: Skagit County

CD Guid: db48fd09-e3ea-4f6c-b57d-649a9ba182c8 Release Date: 5/8/2018 Program Mgr: Roman G. Peralta

Br. No. 40093 SID 08050200 Br. Name UPPER FINNEY CREEK BR.

CarryingFINNEY CREEK ROADRoute On06120Mile Post 4.62IntersectingFINNEY CREEKRoute UnderMile Post

Inspector's Signature FPP Cert # G0710 Cert Exp Date 5/11/2022 Co-Inspector's Signature TJN **Inspections Performed:** 5 Structural Eval (1657) 32 Operating Tons (1552) No Utilities 0 (2675)Hrs Date Rep Type Freq 6 Deck Geometry (1658) 0.72 Op RF (1553) 0 Bridge Rails (1684)1.0 4/2/2018 Routine 24 9 Underclearance (1659) 23 Inventory Tons (1555) 0 Transition (1685)Fract Crit 3 Alignment (1661)0.52 Inv RF (1556) 0 Guardrails (1686)UW Deck Overall (1663)5 Operating Level (1660) 0 (1687)6 Terminals Special Ρ 5 Superstructure (1671)Open/Closed (1293)3.00 Asphalt Depth (2610) Interim Substructure (1676)Design Curb Ht (2611) 6 8 Waterway (1662)UWI 9 Culvert (1678)8 Scour (1680)Bridge Rail Ht (2612) Damage Chan/Protection (1677) 8 Soundings Flag (2693) 1952 Year Built (1332)**PRM Safety** Pier/Abut/Prot (1679)Ν Revise Rating (2688)0 Year Rebuilt (1336)SEC Safety 7 Drain Cond (7664)D Ε Photos Flag (2691)Υ Subj to NBIS (2614)Condition 1 **Drain Status** (7665)Measure Clrnc (2694)Alpha Span Type: **Short Span** L **Deck Scaling** (7666)9 Sdwk Cond (7673)In Depth 5 (7667)Scaling Pct 9 Paint Cond (7674)Geometric Approach Cond (7681) 0 Deck Rutting (7669)8 (7682)0 Exposed Rebar (7670) 9 Retaining Wall Sufficiency Rating 48.60 FO 7 Curb Cond (7672)9 Pier Prot (7683)High Risk

	ВМ	S Element	S				
Element	Element Description	Total	Units	State 1	State 2	State 3	State 4
12	Concrete Deck	3,038	SF	3,038	0	0	0
35	Concrete Deck Soffit	3,038	SF	3,038	0	0	0
110	Concrete Girder	432	LF	357	75	0	0
205	Concrete Pile/Column	6	EA	2	0	4	0
219	Concrete Cantilevered Span Abutment	38	EA	38	0	0	0
234	Concrete Pier Cap/Crossbeam	24	LF	12	12	0	0
331	Concrete Bridge Railing	434	LF	434	0	0	0
361	Scour	2	EA	2	0	0	0
800	Asphaltic Concrete (AC) Overlay	3,038	SF	3,038	0	0	0

Notes

- 0 Bridge is oriented west to east. East end is closest to the junction with Concrete Sauk Valley Rd.
- 11 Updated 2012 Restricted for U80 Logging overload (30T), OL-1, OL-2 (See Photo #18) (See Letters/Load Rating)

BRIDGE INSPECTION REPORT

Status: Released Printed On: 4/23/2019 Agency: Skagit County

CD Guid: db48fd09-e3ea-4f6c-b57d-649a9ba182c8 Release Date: 5/8/2018 Program Mgr: Roman G. Peralta

Br. No. 40093 **SID** 08050200 **Br. Name** UPPER FINNEY CREEK BR.

CarryingFINNEY CREEK ROADRoute On06120Mile Post 4.62IntersectingFINNEY CREEKRoute UnderMile Post

Notes (Continued) 12 See Element 800 - Asphaltic Conrete (AC) Overlay. 35 There are transverse leaching cracks in soffit. Cracks in soffit near Piers 3 and 4 are rusting appears to be from stirups. 110 The webs have some hairline transverse leaching cracks. Girder 3A 11 ft. from Pier 3 was cracked vertically full height to 1/8". It has since been repaired by patching the girder, epoxy injection and the installation of Fiber Reinforced Polymer (FRP). The paint/seal cover on the FRP sheeting has minor cracking along the edge of the on the north side of the girder, see Photo #19. 205 Piers 2 and 5 have vertical cracks (open to 1/16") to the strut. Pier 3 has horizontal cracks (open to 1/32") in the top 10ft. below the girders. Boulders lay up against the west side of the column, see photos #4 and #5. Pier 4 has hairline horizontal cracks scattered throughout and several short spalls with exposed rebar on the west side. 219 The end spans are cantilevered and are denoted as Piers 1 and 6. Gabions and heavy rock have been added at the west abutment and heavy rock at the east abutment. The end diaphragms have vertical leaching cracks. 234 Pier cap 3 has been retrofitted with a steel cap on the west side. It is supported by two large bolts cast in the cap extension on the west side of Pier 3. 331 Rails are convered in moss and have a few small spalls. 361 Finney Creek flows south to north. There are no piers in the water. 800 The ACP is lightly worn to the aggregate in the wheel lines. 1661 Speed reductions are necessary due to the alignment of the highway section which is a single lane road with pulloffs. 1677 Downstream the gorge is steep and rocky, see photo #3.

			Repairs			
Repair No	Pr	R	Repair Descriptions	Noted	Maint	Verified
305	3	В	Sweep deck / clear drains	4/29/2016		4/2/2018

			Inspe	ection	s Per	forme	d and Resou	irces Re	quired
Report Type		<u>Date</u>	Freq	<u>Hrs</u>	Insp	CertNo	Coinsp		<u>Note</u>
Routine		4/2/2018	24	1.0	FPP	G0710	TJN		
Equipment		4/2/2018	72	1.5	FPP	G0710	TJN		
Resources	Hours	Min	Pref	Max	Fre	q Date	Need Date	Override	Notes
UBIT	1.00	30	52	62	72	4/2/2018	3 4/2/2024		
Flagging		LA	LA	LA					For traffic control contact Torey Nelson of Skagit County, (360) 416-1425.



Special Feature

Underwater

UW Interim

Types

WSBIS Local Agency Inventory Report

Geometric

Inventory

4/23/2019

GDG

G0014

08050200 40093 UPPER FINNEY CREEK BR. 02 02 29 0000 04.6 W CONC SAUK RD 06 3	Range 34 09E Printed Date 23/2019	Sufficiency 49.4	49 Item 27
Facilities 1232	Printed Date	Sufficiency 49.4 FC	y Rating: 49 Item 27
Facilities Feature Intersected Facilities Facilities Facilities Facilities Facilities Facilities Facilities Facilities Carried Facilities Carried Region	Date	9 49.4 FC	49 Item 27
Facilities Feature Intersected Facilities Carried Region	Date	9 49.4 FC	49 Item 27
FINNEY CREEK FINNEY CREEK ROAD NW 40 0 99057 3 N P 4		9 FC	ltem 27
1332 1336 1340 2346 1348 1352 1356 1360 1364 1367 1310 1312 1370 1374 1378 1379 1382 1383		High I	Dick
			NISK
	1386 13	1387 1390	1394 1291
Year Rebuilt Rebuilt Reputh Re			Nav Vert de A Lift Clear an F
1952 0 217 75 1 14.9 18.3 1.0 1.0 99 Y 99' 99" 00' 00" N 0.0 N 0.0	0	0 0	0
1432 1433 1434 1435 2440 1445 1451 1453 1457 1463 1467 1477 1469 2410 7479 1483 1484 1485 1486 1487 1489 1490 1354 149	 91	1495 1499	1413 2441
Crossing Grant Gra	ince Cle	Horizontal Clearance Reverse Dir Route	ce et ling
1 4 1 06120 4.62 38 10 2016 56 2036 Y 0000 0 0 0 2 08 N 5 0 16'00	00"		99
1532 1533 1535 1536 1538 1541 1544 1545 1546 1547 1548 1549 1550 1551 ¹⁵⁵² 1553 1554 1555 1556 1585 1588 1590		7565	7557
Main Main Appr Appr Number Number Service Service Deck Wearing Span Span Span Span Span Span Main Appr On Under Type Surface Membrane Protect Load Rating Ra	ID	Fed Aid Project No	Design
Design Material Design Material Design Spans			
2587 2588 2589 2590 2591 2592 2593 2594 2597 2598 2595 2596 7832 7833 7834 7835 7836 7837 7838 7839 7840 7841 1844 1846 1847 2853 2860 1867	1873	873 2870	1861 1879
Load Rating Type 3 3% P R 4V 5V 6V 7V EV 2 EV 3 OL 1 OL 2 Waterway/ Prop Imp Imp Imp Imp Imp Imp Imp Imp Imp Im	t Rdwy C	ry Cost Engr Cost	Total Cost
F A N N 1 6 N G N 0 36 1 217 20 400 868	174	74 694	1736 2014
1.49 1.25 1.27 0.95 1.35 1.19 1.07 0.98 0.77 0.61			
2920 1990 2646 2649 2654 Inspection Date Inspector Cert No Co-Inspector Inspection Date Inspector Cert No Co-Inspector Inspection D	Date	Inspector C	ert No Co-Inspe
Routine 4/2/2018 FPP G0710 TJN Interim Condition			
Inspection Report Types Special Feature Specia			

Damage

PRM Safety

SEC Safety

Control Data Guid: d9685922-f6cc-4256-9ece-26876e1f6e1c Control D

Status: Work Printed On: 4/23/2019 Agency: Skagit County

CD Guid: d9685922-f6cc-4256-9ece-26876e1f6e1c Release Date: Program Mgr: Roman G. Peralta

Br. No. 40093

SID 08050200

Br. Name UPPER FINNEY CREEK BR.

Carrying FINNEY CREEK ROAD

Intersecting FINNEY CREEK

Elevation

2019 Funding

Photo Type: (none)

Orientation:

Date: 4/23/2019

Repairs:

Route On 06120

Mile Post 4.62



Deck View

2019 Funding

Photo Type: (none)

Orientation:

Date: 4/23/2019

Repairs:



Status: Work Printed On: 4/23/2019 Agency: Skagit County

CD Guid: d9685922-f6cc-4256-9ece-26876e1f6e1c Release Date: Program Mgr: Roman G. Peralta

Br. No. 40093 **SID** 08050200 Br. Name UPPER FINNEY CREEK BR.

Carrying FINNEY CREEK ROAD

Intersecting FINNEY CREEK

Typical Column Piers 3 & 4

2019 Funding

Photo Type: (none)

Orientation:

Date: 4/23/2019

Repairs:



Route On 06120 **Route Under**

Mile Post 4.62

Mile Post



Typical Column Pier 1 & 4

2019 Funding

Photo Type: (none)

Orientation:

4/23/2019 Date:

Repairs:



Mile Post 4.62

Mile Post

Status: Work Printed On: 4/23/2019 Agency: Skagit County

CD Guid: d9685922-f6cc-4256-9ece-26876e1f6e1c Release Date: Program Mgr: Roman G. Peralta

Br. No. 40093 SID 08050200 Br. Name UPPER FINNEY CREEK BR.

Carrying FINNEY CREEK ROAD

Intersecting FINNEY CREEK

Maintenance Access

2019 Funding

Photo Type: (none)

Orientation:

Date: 4/23/2019

Repairs:



Route On

Route Under

06120

Carbon Fiber Reinforced Repair

2019 Funding

Photo Type: (none)

Orientation:

Date: 4/23/2019

Repairs:



Bridge Rating Summary

Bridge Name:

Upper Finney Creek Bridge

Bridge Number:

#29

Structure ID #:

08050200

Bridge Type:

Reinforced Concrete

Span Lengths:

10', 60', 75', 60', Skewed 0 to 11'

Span Types:

CIP Continuous

Year Built:

1952

Design Load:

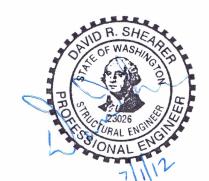
HS-20

County:

Skagit

State:

Washington



SHEARER DESIGN

Rated By:

Joshua Pruitt

Checked By:

David Shearer

Date:

July 2012

Inspection Report Date	3/27/2012	Substructure Condition	
Rating Method	LRFR	Deck Condition	er s
Overlay Thickness	3"	Superstructure Condition	

Truck	(LRFR)	RF	TONS	Y LL	Controlling Point
AASHTO 1 (T	ype 3)	1.49	37.25	1.40	RC Girder, Shear @ Location 10
AASHTO 2 (T	ype 3S2)	1.25	45.18	1.40	RC Girder, Shear @ Location 9
AASHTO 3 (T	ype 3-3)	1.27	50.81	1.40	RC Girder, Shear @ Location 9
NRL		0.95	N/A	1.40	RC Girder, Shear @ Location 10
U80 Logging O	verload	0.39	30.92	1.40	RC Girder, Shear @ Location 10
WSDOT OL-1		0.77	36.73	1.40	RC Girder, Shear @ Location 10
WSDOT OL-2		0.61	63.15	1.10	RC Girder, Shear @ Location 10
NBI Rating	(LRFR)	RF	TONS	Y LL	Controlling Point
Inventory (HL-9	93)	0.52	N/A	1.75	RC Girder, Shear @ Location 10
Operating (HL-	93)	0.72	N/A	1.35	RC Girder, Shear @ Location 10

Remarks:

1. NRL rating of 0.95 required evaluation of the SU vehicles. SU4, SU5, & SU6 all rate higher than 1.0. SU7 controls with a rating of 0.98. Given this Rating Factor is close to 1.0 and the very low ADTT for this bridge, it is deemed unnecessary to post for it.

2.

3.

4.

Coding	WSBIS Co
L L	WB75-51
0.72	WB75-52
1 L	WB75-54
0.52	WB75-55
5	WB76-60

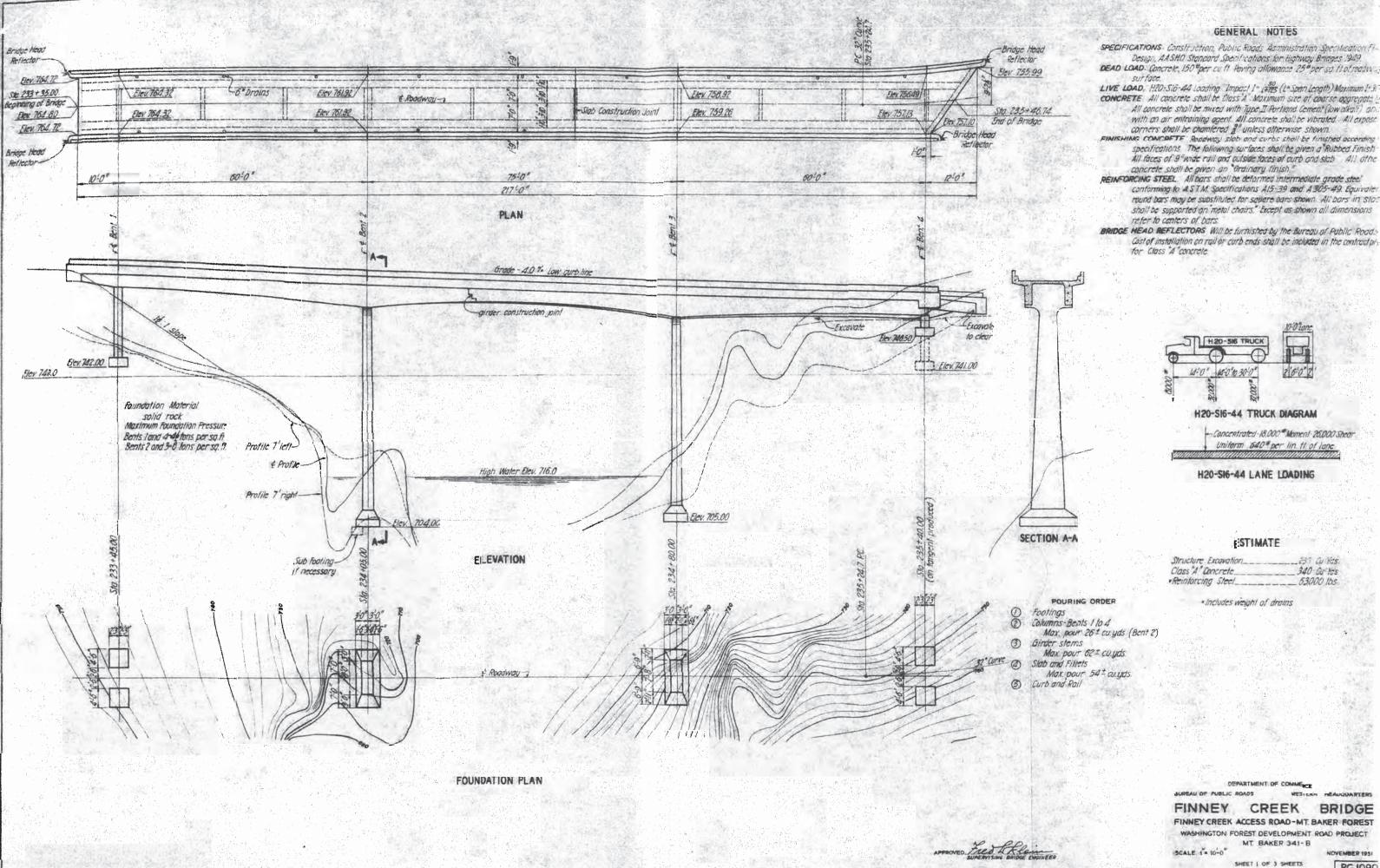
Subject: Shear Summary

Job #: 0192

By: JLP Checked:____

Strength 1 Shear

1 2 3 4 5 6 7 8 9	25 110							
3 4 5 6 7 8 9	25 110							
4 5 6 7 8 9	25 110							
5 6 7 8 9	25 410							
6 7 8 9	25 410							
7 8 9	25 110							
8 9	25 410			The Second				
8 9	25 110							
	25 440							
10 1.	25 4 10							
	.35 1.19	1.07	0.98					
11								
12								
13								
14								
Rating								¥
Factor 1. Controling	.35 1.19	1.07	0.98	0.00	0.00	0.00	0.00	0.00
Location '	10 10	10	10					
		Rating	= (φMn -N	1 _{DL})/M _{LL}				



RG 1090

