

BRIDGE INSPECTION REPORT

Ver Date: 12/12/2014

Agency: Whatcom County

Status: **Work**

Printed On: 12/30/20

Program Mgr: Roman G. Peralta

Bridge No. 503A

Page: 1/2

Structure Type

Bridge Name FERRY SLIP APPR

Route 12780

Location 2. SW OF CAGEY RD.

Structure ID 07999700

MilePost 1.65

Intersecting HALE PASS



Inspector's Signature

CJH

IDent# G0313

Co-Inspector's Signature

										Inspections Performed								
5	8	9	5	8	8	6	9	5	3	5	8	9	IT	NT	HRS	Date	Rep	Type
<input type="checkbox"/>	Structural Adqcy (657)	N	<input type="checkbox"/>	Pier/Abut/Protect (679)	1950	Year Built	(332)											
<input type="checkbox"/>	Deck Geometry (658)	5	<input type="checkbox"/>	Scour (680)	1982	Year Rebuilt	(336)	Y	24	2.0	09/19/2014	Routine						
<input type="checkbox"/>	Underclearance (659)	9	<input type="checkbox"/>	Retaining Walls (682)	64	<input type="checkbox"/>	Oper Rating (551)											Fract Crit
<input type="checkbox"/>	Operating Level (660)	9	<input type="checkbox"/>	Pier Protection (683)	45	<input type="checkbox"/>	Inv Rating (554)											Underwater
<input type="checkbox"/>	Alignment Adqcy (661)	0	<input type="checkbox"/>	Bridge Rails (684)	P	<input type="checkbox"/>	Open Close (293)											Special
<input type="checkbox"/>	WaterwayAdqcy (662)	0	<input type="checkbox"/>	Transition (685)	9999	<input type="checkbox"/>	Vert Over Deck (360)											Interim
<input type="checkbox"/>	Deck Overall (663)	0	<input type="checkbox"/>	Guardrails (686)	0000	<input type="checkbox"/>	Vert Under (374)											Equipment
<input type="checkbox"/>	Drains Condition (664)	0	<input type="checkbox"/>	Terminals (687)	N	<input type="checkbox"/>	Vert Und Code (378)											Damage
<input type="checkbox"/>	Superstructure (671)	Y	<input type="checkbox"/>	Revise Rating (688)	0.00	<input type="checkbox"/>	Asphalt Depth											Safety
<input type="checkbox"/>	Number Utilities (675)		<input type="checkbox"/>	Photos Flag (691)	5	<input type="checkbox"/>	Speed Limit											Short Span
<input type="checkbox"/>	Substructure (676)		<input type="checkbox"/>	Soundings Flag (693)														
<input type="checkbox"/>	Chan/Protection (677)		<input type="checkbox"/>	Measure Clearance (694)														
<input type="checkbox"/>	Culvert (678)																	
													Total: 0.0					
													Suff Rating: 51.00		51.00			

BMS Elements

Element	Element Description	Total	Units	State 1	State 2	State 3	State 4
54	Timber Slab	3507	SF	0	3507	0	0
117	Timber Sawn Girder	1994	LF	1994	0	0	0
215	Concrete Abutment	32	LF	32	0	0	0
216	Timber Abutment	32	LF	0	0	32	0
228	Timber Submerged Pile/Column	76	EA	61	8	5	2
235	Timber Pier Cap	242	LF	146	64	32	0
332	Timber Bridge Railing	394	LF	394	0	0	0

Notes

0	Dock is oriented North to South and inspection starts at the North (shoreline).
54	Deck planks have moderate wear and a number of the boards have nails that are sticking up from 1/8" to 1/4". Some have been snagged and bent over. The last two timber slabs at the transfer span are loose.
117	Girder 2L at the south end has a split over timber cap #3. Through out the structure a number of the timber girder are starting to twist out of plumb in the vertical direction (see picture SupS-01-14)
215	In good shape.
216	No signs of any issues.

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228	Per the underwater inspection in bent #9, Pile 9A(S) has extensive damage (red tagged) and Pile 9H has a large split with 50% section loss (red tagged) and Pile 9L has a large split w/ extensive marine borer damage (yellow tagged). Crack in top of abutment #1 pile D. Bent 2 pile C has vertical crack. Pile D has 3" shell (yellow tagged). Bent #4 pile C vertical crack. Bent #5 piles C&D have 5" long vertical cracks. Bent #7 pile B has 3' vertical crack. Bent #9 pile A, H and L hollow (yellow tagged). Pile C&D have 5' vertical cracks. All these condition are still the same.
235	Bent # 5 longitudinal crack in cap from pile 5C to the west. Bent #6 cap has a longitudinal crack all along the bottom.
332	Bridge rail in good shape. Some rail have horizontal cracks.
672	Curb on the bridge is timber, 11 of the bull rails have large cracks. Some of the cracks run the length of the bull rail, this cracks are 1/4" to 1/2" in size. These condition are still the same along with some of the rails are starting to twist some.
681	Approach has a slight bump, less than 1/2" along with a gap of about 1/2".

Repairs

Repair No	Pr	R	Repair Description	Noted	Maint	Verified
2	2	B		09/29/14		
3	2	J		09/29/14		

Inspections Performed and Resources Required

Report Type	Date	IT	Frg	Hrs	Insp	CertNo	Coinsp	Note
Routine	09/19/14		24	2.0	CJH	G0313		Approach to ferry slip, 157.6' long and 22' wide. Timber super structure and sub structure.
Resources			Use	Hour	Min	Req	Max	Notes
Boat			J	1.00	J	J	J	Small boat needed to reach timber caps with high tide.
Informational	12/12/14				CJH	G0313		
Resources			Use	Hour	Min	Req	Max	Notes

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Route 12780

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MilePost 1.65

Location 2. SW OF CAGEY RD.

DE-01-12

Deck - Elevation

Photo Type: D - Deck

Orientation: S

Dates: 9/27/2012

Repairs:

Deck View



DE-02-12

Deck - Elevation

Photo Type: E - Elevation

Orientation: E

Dates: 9/27/2012

Repairs:

Elevation View



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Location 2. SW OF CAGEY RD.

GP-01-12

General Photo

Photo Type: M - Monitor

Orientation: DN

Dates: 9/27/2012

Repairs:

Bridge approach



GP-01-14

General Photo

Photo Type: M - Monitor

Orientation: DN

Dates: 9/22/2014

Repairs:

Crackes in the bull rail on the bridge deck.



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Route 12780
MilePost 1.65

Structure Type
Intersecting HALE PASS
Location 2. SW OF CAGEY RD.

GP-02-12

General Photo
Photo Type: M - Monitor
Orientation: DN
Dates: 9/27/2012
Repairs:
Bull rail is cracked (typ.)



GP-02-14

General Photo
Photo Type: M - Monitor
Orientation: DN
Dates: 9/22/2014
Repairs:
Bull Rail that have twisted



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MilePost 1.65

Location 2. SW OF CAGEY RD.

GP-03-14

General Photo

Photo Type: M - Monitor

Orientation: DN

Dates: 9/22/2014

Repairs:

Typical bridge decking



R-01-12

Repair Photos

Photo Type: R - Repair

Orientation: E

Dates: 9/27/2012

Repairs:

Electrical damaged and end of dock



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Route 12780
MilePost 1.65

Structure Type
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Location 2. SW OF CAGEY RD.

SubS-01-07

Sub-Structure
Photo Type: M - Monitor
Orientation: DN
Dates: 4/20/2007
Repairs:
Rotten pile



SubS-02-07

Sub-Structure
Photo Type: M - Monitor
Orientation: UP
Dates: 4/20/2007
Repairs:
Looking at timber caps



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Structure ID 07999700

MilePost 1.65

Location 2. SW OF CAGEY RD.

SubS-03-07

Sub-Structure

Photo Type: M - Monitor

Orientation: DN

Dates: 4/20/2007

Repairs:

Rotten pile



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Location 2. SW OF CAGEY RD.

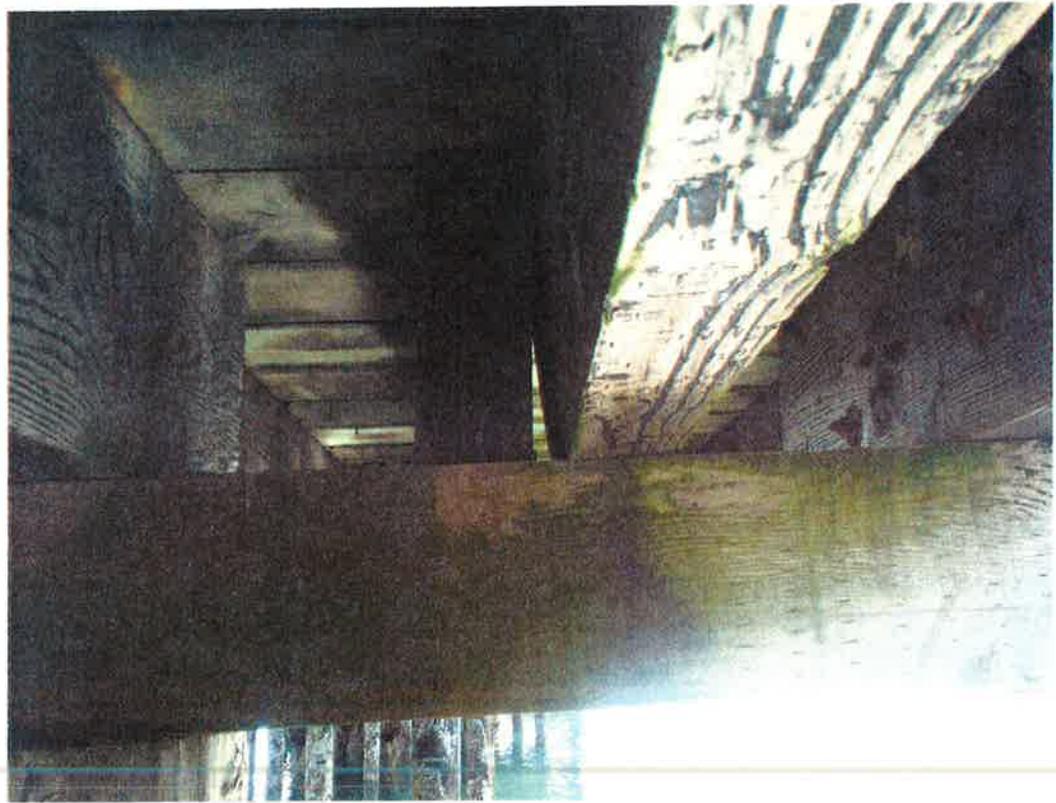
SupS-01-14

Super Structure
Photo Type: M - Monitor
Orientation: N
Dates: 9/22/2014
Repairs:
Girders with a twist



SupS-02-14

Super Structure
Photo Type: M - Monitor
Orientation: N
Dates: 9/22/2014
Repairs:
Another example of the twisted
Girder



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MilePost 1.65

Structure Type
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Location 2. SW OF CAGEY RD.

U-01-10

Utilities
Photo Type: U - Utility
Orientation: UP
Dates: 9/13/2010
Repairs:
Electrical Utilities on dock



U-01-14

Utilities
Photo Type: U - Utility
Orientation: DN
Dates: 9/22/2014
Repairs:
New electrical line to feed the dock

