Segment 1a - Eagle Creek Viaduct - *East*

Segment 1a consists of a free standing viaduct approximately 450 feet in length to connect the east end of the Toothrock trail segment of the Historic Columbia River Highway State Trail, which terminates at an existing three-story concrete stairway, to the existing bike lane on the south side of I-84 Exit 41, leading to the historic Eagle Creek Bridge.

Trail Segment Highlights:

- The viaduct would provide a much needed capability for a person with limited ambulatory ability (e.g. people using walkers, wheelchairs or hand cycles) to traverse this most beautiful segment of the reconnected historic highway, while at the same time providing a much more pleasant and safe touring experience for all users. Moreover, it would provide a significant benefit to touring cyclists with panniers and trailers. It's also important to note that this segment is currently the only one that does not provide such access.
- To avoid the cost of demolition and removal of the existing stairs, the stairway would remain and serve as a viewpoint, along with proposed landscaping and concrete or stone benches.
- A functional, yet handsome, 'period-appropriate' handrail system would protect users of the viaduct.
- Provides a very nice view of the gorge and mountains north of it from the higher portions of the viaduct.

Photo 1A: *Looking north from the viewpoint at the landing at the top of the existing three story high stairway.*

Photo 1B*: Example of a typical hand cyclist enjoying a viewpoint on the Hood River to Mosier section of the Historical Columbia River Highway State Trail.*

Photo 1C: *Looking north from virtually any point on the viaduct from mid to the highest elevation.*

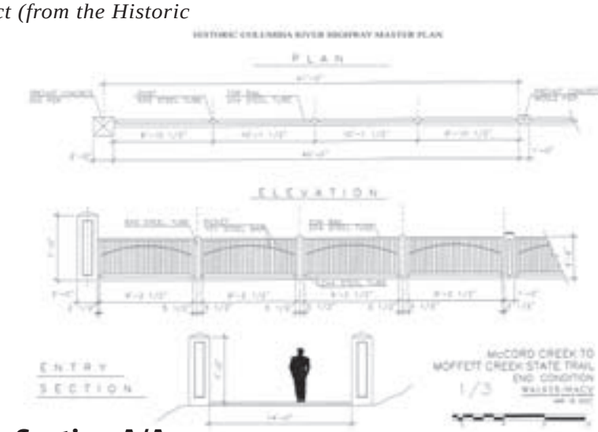
Photo 1D: *A digitally enhanced photograph depicting an artist's interpretation of the proposed viaduct to bypass the existing stairway at Eagle Creek. This rendering is not to scale and is meant for illustration purposes only.*

Section A/A: *The handrail system for the Eagle Creek Viaduct (from the Historic Columbia River Highway Master Plan).*

Segment 1a – Preliminary Cost Estimate

Station	Item	Cost
0+00 to 4+50	Viaduct: 450' long x 16' wide @ $150/square foot	$ 1,080,000
0+00 to 4+50	Handrail System: 450' x 2 @ $100/linear foot	90,00
0+00	Connection to Stairway Structure (allowance)	10,000
0+00 to 4+50	Re-vegetation (allowance)	5,000
0+00 to 4+50	Center Striping of Viaduct	800
0+00	Benches at Stairway Viewpoint (2@ $1,100)	2,200
	Raw Construction	1,188,000
	Engineering & Permits (20%)	238,000
	Construction Engineering (15%)	178,000
	Sub Total	1,604,000
	Contingency @ 40%	642,000
	Estimated Project Cost (2008)	2,246,000
	Estimated Inflation (2008-10)	225,000
	Project Cost Estimate (2010)	**$ 2,471,000**

Please Note: *Not all stations shown in the Preliminary Cost Estimate tables are shown on the segment Feasibility Maps.*



Section A/A

COLUMBIA RIVER
COLUMBIA RIVER
TO WARRENDALE
84
84
NF-8400-240
NF-8400-240
NF-8400-240
NF-8400-240
NF-8400-240
TO CASCADE LOCKS
EAGLE CREEK HATCHERY
EAGLE CREEK
EAGLE CREEK
EXIT 41 TO HATCHERY
A/A
A
C
D
STA-0+00
STA-4+50
MT. HOOD NATIONAL FOREST
HCRH Reconnection Strategy
Segment 1a
Eagle Creek Viaduct - East
0
200
400
600
800 FEET
LEGEND
EXISTING (INTACT) HCRH
2008 PROPOSED HCRH TRAIL
PROPOSED TUNNEL
ROCKFALL/EXCAVATION AREAS
PHOTO VIEWPOINTS
PROPOSED RETAINING WALLS
ESTIMATED FILL SLOPE
ESTIMATED CUT SLOPE
POTENTIAL TRAILHEAD
SECTION DRAWING
PROPOSED BRIDGE
PROPOSED CULVERTS
VIEWPOINT
POINT OF INTEREST
CREEK/DRAINAGE