PROJECT PROSPECTUS

Part 1 — Project Request (Page 1 of 2)

Key Number:	Jurisdiction:

Section:	Region:	Area:	District:
Susbauer Road Bridge (at Council Creek): Bridge #67B001	1		2A

State Highway No.:	Highway Name:	Mile Point From:	Mile Point To:	Length: (mi) (km)
N/A	N/A			.1 miles

Urban / Rural	City:	MPO:	Within UGB	County:	Road/Street Name:
☑ Urban ☐ Rural	Cornelius		☑ Yes ☐ No	Washington	Susbauer Road

Route No.:	NHS	HPMS:	FC:	Applicant (if other than State):
N/A	☐ YES ☑ NO		MajCol	Washington County

US Congressional District:	State Senate District:	State Representative District:
1	5	3

Cost Estimates (x $ 1,000)			Project Components		Right Of Way	
Preliminary Engineering		$317	Grading	X	Files (#)	4
Right Of Way		$116	Paving	X	Hectares (#)	.405
Utility Reimbursement			Structures	X	Relocations (#)	0
			Signing	X	Acquisitions (#)	0
Roadway	$274		Signals		Easements (#)	4
Structures	$451		Illumination		Work By: State / Consultant / Applicant	
Signals	$0				Preliminary Engineering (S,C,A)	C
Illumination	$0				Construction Engineering (S,C,A)	C
Temp. Protection	$10				Right of Way Descriptions (S,C,A)	A
Const. Contingencies	$330				Right Of Way Acquisitions (S,C,A)	A
Const. Engineering	$196		Project Categories		Constructed By	
Remove Exist Bridge	$32		Environmental Class (1, 2, 3, PCE)	2	☑ Contract ☐ County Force	
Other	$554		Design Category (1-7)	7	☐ State Force ☐ Other	
Total CE and Construction:		$1,850	Work Type Code (1-13)	5	☐ City Force	
Total Estimate:		$ 2,283	Primary STIP Work Type:			
Recommended Let Date By Federal Fiscal Year (Quarter-Year):						

PE Fund:	R/W Fund:	UR Fund:	CE-CN Fund:
PE EA:	R/W EA:	UR EA:	CE-CN EA:

Item	Existing	Proposed
Travel Lanes (#)	2	2
Structures (#)	1	1
Signals (#)	0	0
Bike Way (#)	0	2
Average Daily Traffic	8,500	8,500
Year of ADT	2003	2003
Throughway Y/N	Y	Y

Define The Problem:

The bridge is a timber structure constructed in 1966 but is functionally obsolete for the traffic volumes that it currently carries. The structure is in need of extensive repairs: there is decay in the deck and backwall, the pile caps are in advance stages of decay, the felloe guards and guard rail posts are rotted, and the approach to the bridge structure has settled approximately 3 inches causing extensive cracking in the AC pavement. Another major problem is the deck geometry; the bridge structure is too narrow (22') and functionally obsolete. The existing structure is below the 25 year flood level causing it to be closed due to periodic flooding. Additionally, the current structure is in a sag curve, resulting in limited sight distance for both approaches creating a potential safety issue.

Describe Proposed Solution: - Attach Sketch Map

Due to the high costs to widen and repair the existing bridge, total replacement with a new structure is the most cost-effective alternative. The new structure would be raised above the 100-year storm event, be wide enough to accommodate future vehicle loads and eliminate sight distance issues.

Prepared By:	Date:	OTC Approval Date:	Program Year:	Funding Amount:
X				

(5.2022)

PROJECT PROSPECTUS

Part 1 Project Request (Page 2 of 2)

Key Number:	Jurisdiction:

Section:	Region:	Area:	District:
Susbauer Road Bridge (at Council Creek): Bridge #67B001	1	0	2A

Project Justification

The current sufficiency rating of the bridge is 39.6. The most recent state inspection report (March, 2003) rated the deck geometry a "2" which means that the deck is "basically intolerable requiring high priority of replacement". The bridge has not been retrofitted with any seismic stabilization. An ADT count in October, 2002 was 4,926. Due to extensive road construction on an adjacent collector, the bridge currently handles approximately 8,500 vehicles per day, with >10% heavy truck traffic (most carrying agricultural products) between Highway 26 and Highway 8 (Tualatin Valley Highway). In addition, a portion of this project falls within Metro's Urban Growth Boundary (UGB) and within the City of Cornelius. Susbauer Road is designated as a Collector in Washington County's TPU and a Major Collector in the City of Cornelius' Transportation Plan. The City's Transportation Master Plan shows 19th Avenue (Susbauer Road) will be widened to 36'. Given the existing bridge width of only 22', a dangerous situation will worsen once the 19th Avenue improvements are constructed. The existing bridge deck is approximately 2.5' below the 100-year flood level of Council Creek floods frequently, making the bridge impassible.

Additional Information For Project Requested By Local Jurisdictions

Responsible Local Office To Be Contacted For The Following Activities:

1. Public Hearing / Citizen Involvement _____ (Office) _____ (Phone)
2. Environmental / Planning _____ (Office) _____ (Phone)
3. Pre-Engineering _____ (Office) _____ (Phone)

This Official Request is From:

City of: _____ and/or Washington County County

By: _____ By: DEPT MANAGER

By: _____ By: _____

By: _____

Applicable Intergovernmental Agreements:

IGA Number:	Jurisdiction Name:	Agreement Date:

Administrative Recommendation

6/2003

Bridge Prospectus Cost Estimate

		NBIS Bridge No.		
Applicant:	Washington County	67B001		
Project / Section	Susbauer Road Bridge (at Council Creek): Bridge #67B001	Region: 1	Area: 0	District: 2A

New Bridge / Roadway Configuration:			Existing Bridge:		
Left Side Rail	1.5	feet	Bridge Length	77	feet
Left Sidewalk	6	feet	Bridge Width	24.1	feet
Shoulder	5	feet	Area	1855.7	square ft.
Lane 2		feet			
Lane 1	12	feet	New AC Top Width	48	feet
---CL---		feet	New AC Depth	6	inches
Lane 1	12	feet	New Base Depth	12	inches
Lane 2		feet	Project Length	675	feet
Shoulder	5	feet	Net Road Work Length	575	feet
Right Sidewalk	6	feet	X-S Side Slope	vert	
Right Side Rail	1.5	feet	AC Avg Width	49	feet
			Base Avg Width	53	feet
Bridge Length	100	feet	Asphalt Density	147	pounds/ cu ft
Bridge Width	49	feet	Base Density	124	pounds/ cu ft
New Area	4900	square ft.	New AC Received	1007	tons
			New Base Required	1780	tons

COST ESTIMATE:	Quantity	Unit	Price per unit	Cost ($x1000s)
Right-of-Way	1	Acre	$ 116,000	$116
	==Roadway==			
Clear & Grub	$ 25,000	lump sum		$25
General Excavation	3,000	cubic yards	$ 10.37	$31
Embankment in Place	5,379	cubic yards	$ 10.20	$55
Pavement Removal	2,400	square feet	$ 7.62	$18
Aggregate Base	1,780	tons	$ 15.12	$27
Asphalt Concrete	1,007	tons	$ 66.55	$67
Riprap	136	cubic yards	$ 97.62	$13
Guardrail, Type 2A		feet	$ 16.19	$0
Guardrail, Type 3	634	feet	$ 39.84	$25
Guardrail Trans	62	feet	$ 124.15	$8
Flared Terminals	3	each	$ 1,525.56	$5
			Subtotal Roadway	$274
Structures	4,900	square feet	$ 92.00	$451
Signals	$ -	lump sum		$0
Illumination	$ -	lump sum		$0
Temporary Protection	$ 10,000	lump sum		$10
Remove Existing Bridge	$ 1,856	square feet	$ 17.36	$32
Other (walls/fencing/mob)	$ 554,185	lump sum		$554
Other (miscellaneous)	-	lump sum		$0
			Subtotal Structures	$1,047
			Subtotal Construction	$1,321
	==Engineering==			
Construction Engineering	15	percent of construction		$198
Contingency	25	percent of construction		$330
			Subtotal Const. Eng.	$528
Preliminary Engineering				
Consultant	10	percent of construction		$132
State		percent of construction		$0
County	14	percent of construction		$185
			Subtotal PE	$317
			Total Estimate	$2,283

Bridge Project Prospectus
Additional Bridge Information

Applicant: Washington County		NBIS Bridge Number: 67B001	
Project Name / Section: Susbauer Road Bridge (at Council Creek): Bridge #67B001		Region: 1	Area: 0 / District: 2A

Funding

Preferred Source:
- [x] OTIA III
- [ ] Federal HBRR

Acceptable Source:
- [x] OTIA III
- [x] Federal HBRR

Heavy Vehicle Usage

	Existing	Proposed
Truck AADT:	982	982

Fire Truck Usage:
- [ ] YES, at least 25% of trips use bridge.
- [x] No. Less than 25% of trips

Detour

Detour Route:
Length: 7.8
Map: (Please attach map)

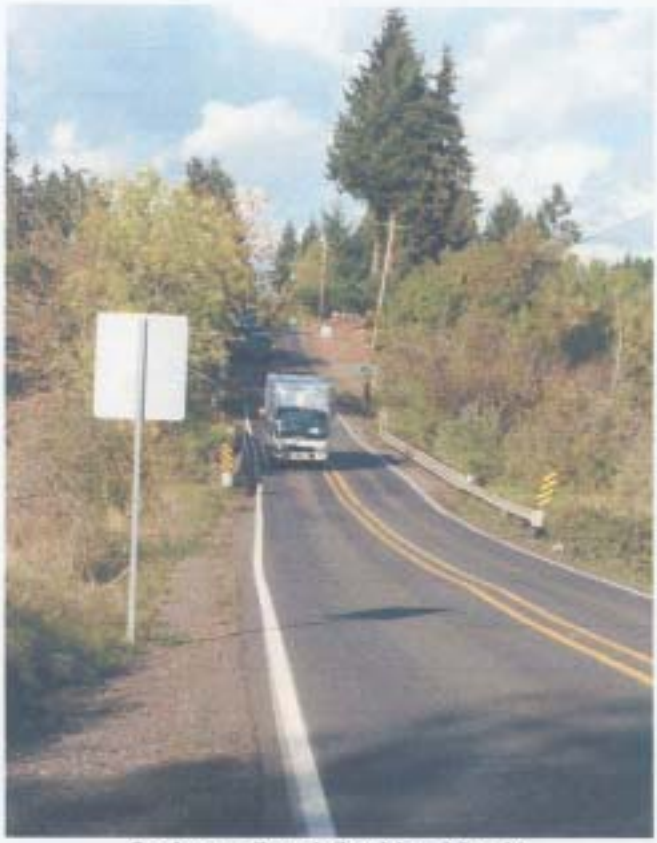
Regional Freight Corridor Analysis:

Susbauer Road is a vital north-south frieght route for two large distributors of products in the City of Cornelius (Stewart Stiles Trucking and Fred Meyer). In addition, Susbauer Road serves as a major north-south corridor for residents and commuters accessing either Tualatin Valley Highway (Hwy 8) or Sunset Highway (Hwy 26).

Special Consideration:

Washington County has prepared and is submitting this application for the City of Cornelius.

Bridge #67B001
Susbauer Road Bridge (at Council Creek)

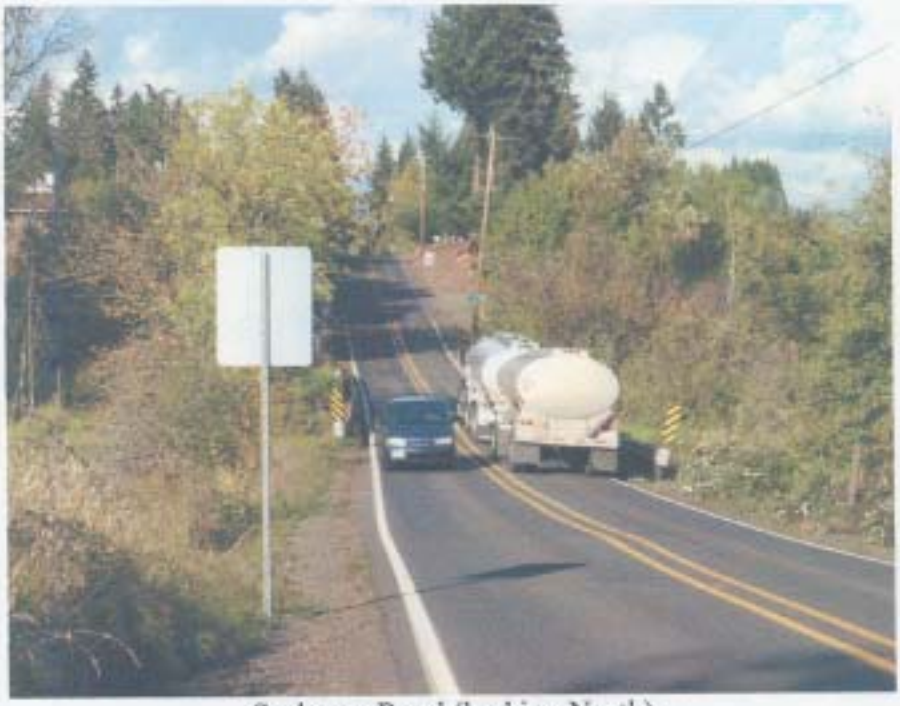


Susbauer Road (looking North)

Susbauer Road (looking North)

Bridge #67B001
Susbauer Road Bridge (at Council Creek)

Susbauer Road (looking North)



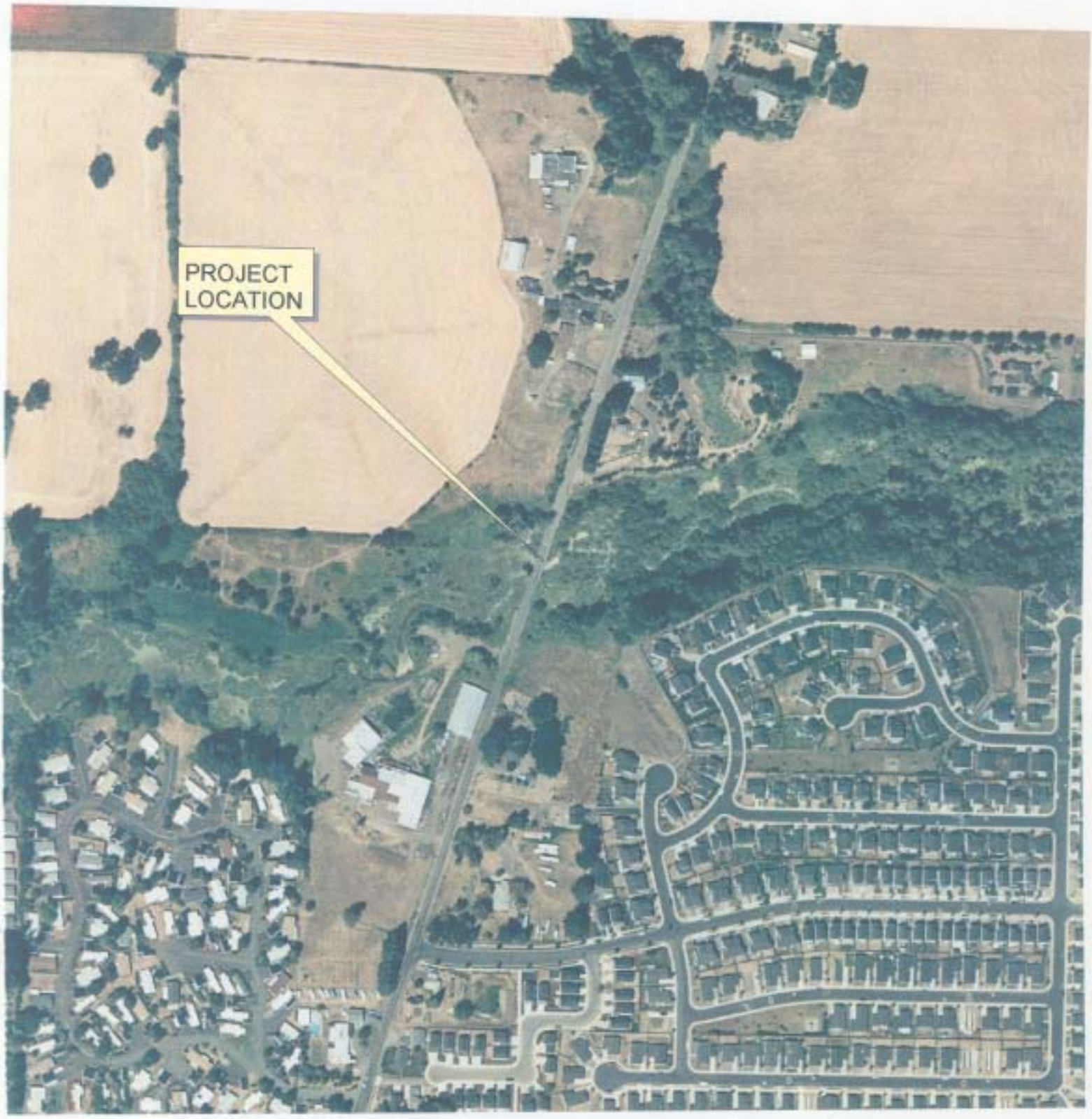
Susbauer Road (looking North)

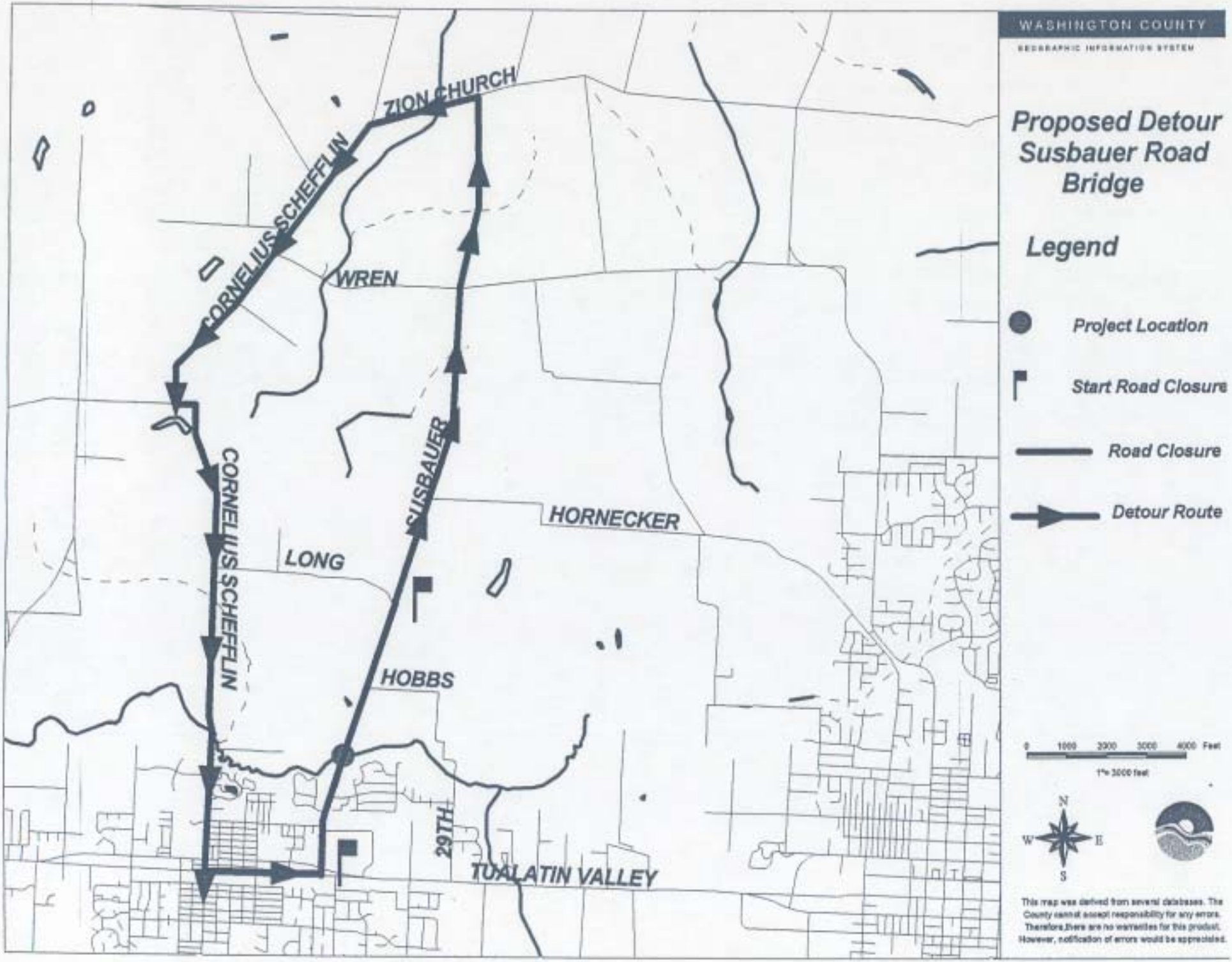
Bridge #67B001
Susbauer Road Bridge (at Council Creek)

Susbauer Road (looking South)

Susbauer Road (looking South)

SUSBAUER ROAD BRIDGE #67B001
(AT COUNCIL CREEK)




WASHINGTON COUNTY
GEOGRAPHIC INFORMATION SYSTEM
Proposed Detour
Susbauer Road
Bridge
Legend
Project Location
Start Road Closure
Road Closure
Detour Route
ZION CHURCH
CORNELIUS SCHEFFLIN
WREN
SUSBAUER
HORNECKER
LONG
HOBBS
29TH
TUALATIN VALLEY
0 1000 2000 3000 4000 Feet
1"= 3000 feet
N
W
E
S
This map was derived from several databases. The County cannot accept responsibility for any errors. Therefore,there are no warranties for this product. However, notification of errors would be appreciated.