



# PROJECT PROSPECTUS

Part 1 — Project Request (Page 1 of 2)

Section: <b>2nd Street Crossing of Periwinkle Creek - Albany</b>						Key Number:	Jurisdiction:	
State Highway No.:						Region: <b>2</b>	Area: <b>4</b>	District: <b>4</b>
Highway Name:						Mile Point From: _____ To: _____	Length: (mi) (km) <b>0.00</b>	
<input checked="" type="checkbox"/> Urban <input type="checkbox"/> Rural	City: <b>Albany</b>	MPD:	Within UGB: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	County: <b>Linn</b>	Road/Street Name: <b>2nd Street</b>			
Route No.:	NHS: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	HPMS:	FC:	Applicant (if other than State): <b>City of Albany</b>				
US Congressional District: <b>4th &amp; 5th</b>			State Senate District: <b>8</b>			State Representative District: <b>15</b>		
Cost Estimates ( x \$ 1,000)			Project Components			Right Of Way		
Preliminary Engineering	\$193	Grading	<input checked="" type="checkbox"/>	Files	(#)	<b>4</b>		
Right Of Way	\$20	Paving	<input checked="" type="checkbox"/>	Hectares	(#)	<b>1</b>		
Utility Reimbursement	\$35	Structures	<input checked="" type="checkbox"/>	Relocations	(#)	<b>0</b>		
		Signing		Acquisitions	(#)	<b>4</b>		
Roadway	\$123	Signals		Easements	(#)			
Structures	\$522	Illumination	<input checked="" type="checkbox"/>	Work By: State / Consultant / Applicant				
Signals	\$0			Preliminary Engineering	(S,C,A)	<b>C</b>		
Illumination	\$8			Construction Engineering	(S,C,A)	<b>C</b>		
Temp. Protection	\$17			Right of Way Description	(S,C,A)	<b>C</b>		
Const. Contingencies	\$201			Right Of Way Acquisitions	(S,C,A)	<b>C</b>		
Const. Engineering	\$121	Project Categories			Constructed By			
Remove Exist Bridge	\$6	Environmental Class (1, 2, 3, PCE)	<b>2</b>	<input checked="" type="checkbox"/> Contract	<input type="checkbox"/> County Force			
Other	\$129	Design Category (1-7)	<b>7</b>	<input type="checkbox"/> State Force	<input type="checkbox"/> Other			
Total CE and Construction:	\$1,126	Work Type Code (1-13)	<b>5</b>	<input type="checkbox"/> City Force				
Total Estimate:	\$ 1,374	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	Define The Problem:					
Travel Lanes (#)	<b>2</b>	<b>2</b>	The Periwinkle Creek crossing on 2nd Street is a 12' diameter arch multi-plate culvert. The culvert is failing, causing the roadway to sink 3'+/-. The City had the culvert inspected in 1999. The results of the inspection directed the City to post the crossing at 10-tons. The City has continued to monitor the crossing and in 2003 closed the roadway due to continued settlement of the roadway surface.					
Structures (#)	<b>1</b>	<b>1</b>						
Signals (#)	<b>0</b>	<b>0</b>						
Bike Way (#)	<b>0</b>	<b>0</b>						
Average Daily Traffic	<b>318</b>							
Year of ADT	<b>2002</b>							
Throughway Y/N	<b>Y</b>	<b>Y</b>	Describe Proposed Solution: - Attach Sketch Map					
			Construct a single-span prestressed concrete bridge on the same alignment to current city standard widths for a residential street.					
Prepared By: <b>X</b>			Date:	OTC Approval Date:		Program Year:	Funding Amount:	



## Bridge Prospectus Cost Estimate

Applicant:		NBIS			
Project / Section		City of Albany	Bridge No.	Culvert	Region:
		2nd Street Crossing of Periwinkle Creek - Albany	2	4	District: 4
<b>New Bridge / Roadway Configuration:</b>			<b>Existing Bridge:</b>		
Left Side Rail	1.5 feet		Bridge Length	15 feet	
Left Sidewalk	5 feet		Bridge Width	50 feet	
Planter Strip	5 feet		Area	750 square ft.	
Parking Lane	8 feet				
Lane 1	12 feet		New AC Top Width	40 feet	
---CL---	0 feet		New AC Depth	5 inches	
Lane 1	12 feet		New Base Depth	12 inches	
Parking Lane	8 feet		Project Length	310 feet	
Planter Strip	5 feet		Net Road Work Length	238 feet	
Right Sidewalk	5 feet		X-Sect Side Slope	3 :1	
Right Side Rail	1.5 feet		AC Avg Width	41.25 feet	
			Base Avg Width	45.5 feet	
Bridge Length	72 feet		Asphalt Density	150 pounds/ cu ft	
Bridge Width	63 feet		Base Density	120 pounds/ cu ft	
New Area	4536 square ft.		New AC Required	307 tons	
			New Base Required	650 tons	
<b>COST ESTIMATE:</b>					
	Quantity	Unit	Price per unit	Cost ( \$x1000s)	
Right-of-Way	0.5	Acre	\$ 40,000	\$20	
==Roadway==					
Clear & Grub	\$ 13,173	lump sum		\$13	
General Excavation	5,000	cubic yards	\$ 12.00	\$60	
Embankment in Place	230	cubic yards	\$ 12.00	\$3	
Pavement Removal	12,000	square feet	\$ 0.50	\$6	
Aggregate Base	650	tons	\$ 16.00	\$10	
Asphalt Concrete	307	tons	\$ 56.00	\$17	
Riprap	276	cubic yards	\$ 50.00	\$14	
Guardrail, Type 2A	-	feet	\$ 11.50	\$0	
Guardrail, Type 3	-	feet	\$ 38.00	\$0	
Guardrail Trans	-	each	\$ 1,600.00	\$0	
Flared Terminals	-	each	\$ 1,600.00	\$0	
Subtotal Roadway				\$123	
Structures	4,536	square feet	\$ 115.00	\$522	
Signals	-	lump sum		\$0	
Illumination	\$ 8,000	lump sum		\$8	
Temporary Protection	\$ 16,600	lump sum		\$17	
Remove Existing Bridge	750	square feet	\$ 8.00	\$6	
Mobilization	\$ 76,500	lump sum		\$77	
Erosion Ctrl / Restoration	\$ 12,900	lump sum		\$13	
Architectural Bridge Rail	264	lin feet	\$ 150.00	\$40	
Subtotal Structures				\$681	
Subtotal Construction				\$805	
==Engineering==					
Construction Engineering	15	percent of construction		\$121	
Contingency	25	percent of construction		\$201	
Subtotal Const. Eng.				\$322	
Preliminary Engineering Consultant	22	percent of construction		\$177	
State	-	percent of construction		\$0	
City	2	percent of construction		\$16	
Subtotal PE				\$193	
<b>Total Estimate</b>				<b>\$1,339</b>	

## Bridge Project Prospectus Additional Bridge Information

Applicant: City of Albany		NBIS Bridge Number:			
Project Name / Section: 2nd Street Crossing of Periwinkle Creek - Albany		Culvert	Region:	Area:	
		2	4	District:	
Funding	Heavy Vehicle Usage		Detour		
Preferred Source:	Truck AADT:	Existing	Proposed	Detour Route:	
<input checked="" type="checkbox"/> OTIA III <input type="checkbox"/> Federal HBRR	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> 1	
Acceptable Source:	Fire Truck Usage:		Map: (Please attach map)		
<input checked="" type="checkbox"/> OTIA III <input checked="" type="checkbox"/> Federal HBRR	<input checked="" type="checkbox"/> YES, at least 25% of trips use bridge. <input type="checkbox"/> NO, Less than 25% of trips				
Regional Freight Corridor Analysis:					
Special Consideration:					
<p>This street was recently closed due to progressive culvert failure and severe street settlement. HBRR funding criteria prevented eligibility of this culvert for previous bridge replacement. 2nd Street is a primary fire response route. This creek crossing is also part of the local street network that provides freight access to the riverfront industrial areas of Albany and Millersburg. Bridge replacement will maintain street connectivity and circulation patterns. 2nd Street bridge replacement will also provide detour routes should other bridges in the vicinity require maintenance or emergency closure.</p>					

## Bridge Project Prospectus

### Requested Changes to National Bridge Inventory System (NBIS) Data

(Form Optional)

Applicant: City of Albany	Bridge Number:		
	Culvert		
Project Name / Section: 2nd Street Crossing of Periwinkle Creek - Albany	Region: 2	Area: 4	District: 4

This form must be completed if an agency is proposing a change to the data in the existing National Bridge Inventory System data. The information must be in conformance with the Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges, Report No. FHWA-PD-95-001, December 1995.

Changes proposed to the Detour Length, Average Daily Traffic and Truck Average Daily Traffic will be acquired from other parts of this application and used to compute updated Federal Sufficiency Ratings and in the calculation of the Technical Ranking Score.

The data listed below are used in the calculations of the Technical Ranking Score and proposed changes will be considered. For any changes proposed, attach backup data as to the reason for the change.

Item 25	Functional Classification	
Item 28	A Lanes on Structure	
Item 32	Approach Roadway Width	
Item 43	Structure Type, Main	
Item 51	Bridge Roadway Width	
Item 53	Vertical Clearance over Deck	
Item 54	Underclearance	
Item 55	Minimum Left	
Item 56	Minimum Right	
Item 100	Defense Highway Designation	

Items 58, 59, 60, 62, 67, 68, 69, 71 and 72 are used in the calculation of the Federal Sufficiency Rating. These data elements are supplied by ODOT and are not subject to corrections at this time.

The Inventory Rating (Item 66) must be provided by a Licensed Professional Engineer, based on calculations following ODOT's Load Rating Guidelines. The engineer's calculations must be included.

Item 66	Inventory Rating	
---------	------------------	--

## Bridge Project Prospectus

### Required Data For Bridges Not Listed in the National Bridge Inventory System (NBIS)

(Form Optional)

Applicant: City of Albany	Bridge Number:		
Project Name / Section: 2nd Street Crossing of Periwinkle Creek - Albany	Culvert:		
	Region:	Area:	District:
	2	4	4

This form must be completed for all bridges submitted that are not on the current National Bridge Inventory System (NBIS). The information must be in conformance with the Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges, Report No. FHWA-PD-99-001, December 1995.

Item 19	Detour Length	1
Item 26	Functional Classification	19
Item 28	A Lanes on Structure	2
Item 32	Approach Roadway Width	38
Item 36	Traffic Safety Features	0
Item 43	Structure Type, Main	319
Item 51	Bridge Roadway Width	38
Item 53	Vertical Clearance over Deck	9999
Item 54	Underclearance	N0000
Item 55	Minimum Left	N0000
Item 56	Minimum Right	999
Item 100	Defense Highway Designation	N

Items 58, 59, 60, 62, 67, 68, 69, 71 and 72 must be provided by a Certified Bridge Inspector, or a Licensed Professional Engineer. The Inspector's evaluation must be included.

Item 58	Deck Condition	N
Item 59	Superstructure Rating	N
Item 60	Substructure Rating	N
Item 62	Culverts	2
Item 67	Structural Evaluation	2
Item 68	Deck Geometry	8
Item 69	Under-Clearance	N
Item 71	Waterway Adequacy	3
Item 72	Approach Road Alignment	8

The Inventory Rating (Item 86) must be provided by a Licensed Professional Engineer, based on calculations following ODOT's Load Rating Guidelines. The engineer's calculations must be included.

Item 86	Inventory Rating	CLOSED
---------	------------------	--------

City of Albany  
2nd Street Culvert  
OBEC Job No. 168-11  
Date: December 11, 1998



Looking east at north sidewalk.

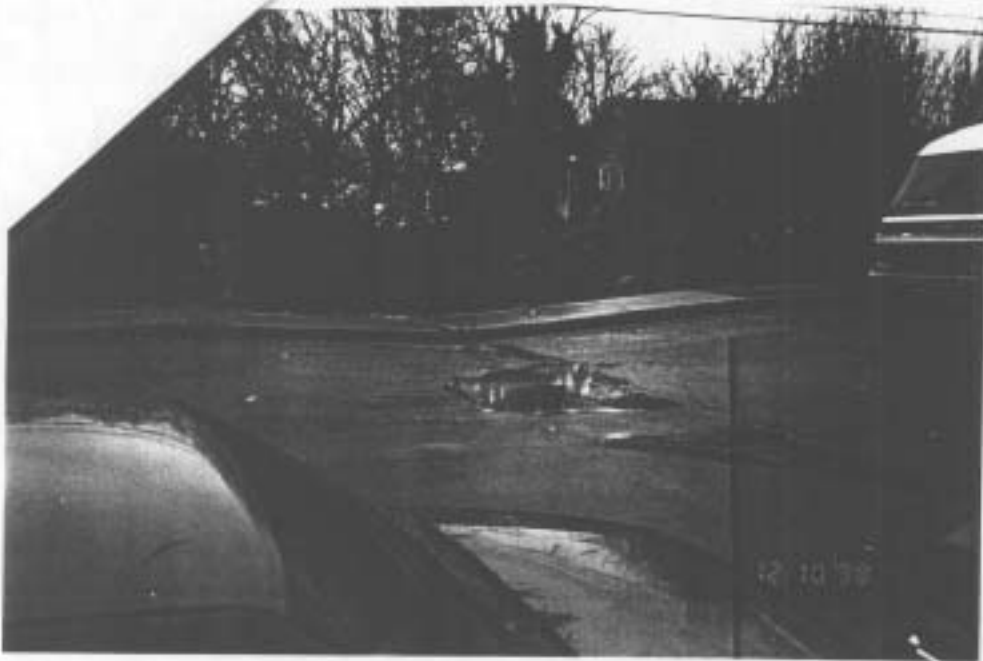


Looking west at north sidewalk.



Looking west at south sidewalk.

City of Albany  
2nd Street Culvert  
OBEC Job No. 168-11  
Date: December 11, 1998



Looking at north side showing maximum settlement.



Looking east.



Looking east.

City of Albany  
2nd Street Culvert  
OBEC Job No. 168-11  
Date: December 11, 1998



Looking at upstream end.



Looking through culvert from upstream end.



Looking at upstream end.

City of Albany  
2nd Street Culvert  
OBEC Job No. 168-11  
Date: December 11, 1998



Looking at downstream end.



Looking at corrosion of culvert bottom.



MASON

CLEVELAND ST.

HARRISON ST.

pu

B-1

water

ALBANY



# CONSULTING ENGINEERS EUGENE, OREGON BRIDGE INSPECTION REPORT

BRIDGE NO. \_\_\_\_\_

City of Albany

BRIDGE TYPE 12" Steel Culvert NAME 2<sup>nd</sup> Street Culvert (STATE, FAS, FAU, OS) HWY. NO. \_\_\_\_\_  
CROSSING (OVER/UNDER) Parvinkle Cr. COUNTY Linn INSP. FREQ. \_\_\_\_\_ MILE POST \_\_\_\_\_  
DISTRICT \_\_\_\_\_ YEAR BUILT \_\_\_\_\_ DATE 10/7-3 A.C. (in.) \_\_\_\_\_ INSPECTORS Tim Way

AR - As Repaired  
OM - Original Member

		Condition Rating		OBSERVATIONS		Condition Rating			
SUBSTRUCTURE (60)		AR	OM	SUPERSTRUCTURE (59)		AR	OM	DECK (58)	
1 END BENTS	Caps			1. Stringers				1. Deck - Structural Condition	
	Piles			2. Girder or Beams				2. Wearing Surface	
	Footings			3. Floor beams				3. Deck Joints	
	Footing Piles			4. TRUSSES	Chords			4. Curbs, Falloe Guards	
	Backwalls, Bulkheads				Web Members			5. Sidewalks	
	Wings				Portals			6. Parapet, Concrete Barrier	
			Bracing				7. Railing, Posts		
2 INTERIOR PIERS OR BENTS	Caps			5. Diaphragms, Bridging				8. Median Barrier, Railing	
	Columns, Posts			6. Bearing Devices				9. Paint	
	Footings			7. Paint				10. Drains	
	Footing Piles			8. Rivets or Bolts				11. Lighting Standards	
	Piles			9. Welds				12. Utilities	
	Bracing			10. Collision Damage				13. Vibrations in Deck	
3. Debris on Seats			11. Deflection under Load						
4. Paint			12. Alignment of Members						
5. Collision Damage			13. Vibrations under Load						
6. Scour			14. Machinery (Movable Spans)						
7. Settlement (Footing or Piling)									
INSPECTOR'S CONDITION RATING (60)				INSPECTOR'S CONDITION RATING (59)				INSPECTOR'S CONDITION RATING (58)	
CHANNEL & CHAN. PROTECT. (61)				CULVERTS & RETAIN. WALLS (62)				APPROACH ALIGNMENT (65)	
1. Channel Scour			1. Barrel or Wall	Concrete			1. Pavement & Embankment		
2. Embankment Erosion				Steel		2	2. Shoulder Embankment		
3. Drift				Timber			3. Relief Joints		
4. Vegetation			2. Headwall & Parapet				4. Approach Slab		
5. Channel Change			3. Aprons				5. Guardrail		
6. Fender System			4. Wingwalls				INSPECTOR'S CONDITION RATING (65)		
7. Spur Dikes & Jetties			5. Adequacy				SAFETY FEATURES (36)		
8. Riprap			6. Debris				APPR. ALINE. (72)		
9. Adequacy of Opening							SIGNING		
INSPECTOR'S CONDITION RATING (61)				INSPECTOR'S CONDITION RATING (62)		2		1. Posted Loading - Closed	
								2. Legibility	
								3. Visibility	
								INSPECTOR'S CONDITION RATING	
								6	

REMARKS (Key-in to item and number above) REVIEW LOAD RATING

62-1 Culvert is failing. 3' + Settlement of Road Way. Road is closed with temp Barriercades. Culvert has major deformation in top and is Rusty @ water line, areas of separation, and areas that are rusted through in the bottom

62-5 Culvert has 2' to fill on top. Culvert hydr. aping is much smaller than both U.S. & D.S. Creek bed width causing potential water Backup during High Flows

65-1 3' + Dip in Alc end sidewalk. Road way - closed but sidewalk still open causing potential hazzard to Ped. Appears that Road way Fill is being lost and washed away by the creek.

Tim Way  
SIGNATURE



City of Albany  
333 Broadalbin Street SW  
PO Box 490  
Albany, OR 97321

Telephone: (541) 917-7676  
Fax: (541) 917-7573

From: Guy Mayer

Date: October 15, 2003

To: Bob Thompson - ODOT Bridge Section  
355 Capitol Street NE Room 301  
Salem, OR 97301

*2nd St. Crossing of Bevinde Cr. - Culvert*

We are sending you:

Attached / Enclosed

Under separate cover via \_\_\_\_\_

The following:

Shop drawings

Specifications

Prints

Copy of letter

Plans

Change order

Samples

OTIA III Bridge Application

These are transmitted (as checked below):

For approval

For review and comment

For your use

For bridge funding consideration

As requested

Remarks: Please contact me at 541-917-7640

if you have questions.

Guy Mayer

