PROJECT PROSPECTUS

Part 1 — Project Request (Page 1 of 2)

						Key Number:		Jurisdiction:			
Section:	"A" CANAL (11TH STREET) BRIDGE					Region: 4	Area: S CENTRAL		District: 11		
State Highway No.:	Highway Name:					Mile Point From: 0.77	To: 0.87		Length: (mi) 0.1	(km)	
☑ Urban ☐ Rural	City:	MPO:	Within UGB	☑ Yes ☐ No	County: KLAMATH	Road/Street Name: 11TH STREET					
Route No.:	NHS ☐ YES ☑ NO	HPMS:	FC:		Applicant (If other than State): CITY OF KLAMATH FALLS						
US Congressional District: 2		State Senate District: 28			State Representative District: 56						

Cost Estimates (x $ 1,000)			Project Components		Right Of Way		
Preliminary Engineering		$335	Grading	X	Files (#)	2	
Right Of Way		$5	Paving	X	Hectares (#)		
Utility Reimbursement		$0	Structures	X	Relocations (#)	0	
			Signing		Acquisitions (#)		
Roadway	$18		Signals		Easements (#)	2	
Structures	$1,250		Illumination	X	Work By: State / Consultant / Applicant		
Signals	$0				Preliminary Engineering (S,C,A)	C	
Illumination	$10				Construction Engineering (S,C,A)	C	
Temp. Protection	$10				Right of Way Descriptions (S,C,A)	C	
Const. Contingencies	$418				Right Of Way Acquisitions (S,C,A)	C	
Const. Engineering	$251		Project Categories		Constructed By		
Remove Exist Bridge	$141		Environmental Class (1, 2, 3, PCE)	2	☑ Contract ☐ County Force		
Other	$245		Design Category (1-7)	7	☐ State Force ☐ Other		
Total CE and Construction:		$2,343	Work Type Code (1-13)	5	☐ City Force		
Total Estimate:		$ 2,682	Primary STIP Work Type:				
Recommended Let Date By Federal Fiscal Year (Quarter-Year):			1-2005				

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	0
Average Daily Traffic	4380	NA
Year of ADT	2002	2022
Throughway Y/N	N	N

Define The Problem:

This 1938 RCDG bridge is Functionally Obsolete with a Sufficiency Rating of 49.3. The structural condition is rated (3) as basically intolerable, requiring high priority of corrective action. The bridge is designed for H15 loading, but is subject to heavier loads and deterioration is evident with concrete spalls, cracking, and rebar exposure throughout the sidewalks, rail, girders, and columns. As the bridge continues to deteriorate, load limits and restrictions to freight mobility would likely occur in the near future significantly impacting a large area of the city. 11th Street is a one-way vehicular main route that links the central business district (CBD) and US97Bus to northwest area of the City.

Describe Proposed Solution: - Attach Sketch Map

Replace the existing bridge with a new bridge meeting current AASHTO and ODOT standards for load capacity, geometry, and safety features. The new bridge will match the existing roadway and sidewalk geometry to fit the site constraints. Erosion and scour protection will be installed.

Prepared By:	Date:	OTC Approval Date:	Program Year:	Funding Amount:
x [signature]	10/16/03			

15-2903

PROJECT PROSPECTUS

Part 1 Project Request (Page 2 of 2)

Key Number:	Jurisdiction:

Section:	Region:	Area:	District:
"A" CANAL (11TH STREET) BRIDGE	4	S CENTRAL	11

Project Justification

This bridge is eligible for HBRR and OTIA 3 program replacement funds. Designed as a H15 RCDG bridge, it was constructed in 1938 and is showing signs of concrete and rebar deterioration. This indicates that the bridge is approaching the end of its functional life. Without major repair, this will impact the business and residential community. Replacement is preferred over rehabilitation due to the age and obsolescence of the bridge. 11th Street is an urban collector on the fringe of the CBD and provides a major link to the northwest area of the city. This route is important to freight mobility and fire/emergency services within the City. This bridge is also part of the local transportation network that services three nearby schools within 1/4 mile. To provide reasonable construction access to the site and reduce construction costs, the road will be closed during bridge replacement with traffic detoured onto 9th Street.

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: Klamath Falls and/or _____ County

By: Mark Willrett, P.E. By: _____

By: _____ By: _____

By: _____

Applicable Intergovernmental Agreements:

IGA Number:	Jurisdiction Name:	Agreement Date:

Administrative Recommendation

Bridge Prospectus Cost Estimate

Applicant:	CITY OF KLAMATH FALLS	NBIS Bridge No. 62002			
Project / Section	"A" CANAL (11TH STREET) BRIDGE	Region: 4	Area: S CENTRAL	District: 11	

New Bridge / Roadway Configuration:			Existing Bridge:		
Left Side Rail	1	feet	Bridge Length	288	feet
Left Sidewalk	5.5	feet	Bridge Width	49	feet
Shoulder	6	feet	Area	14112	square ft.
Lane 2	12	feet			
Lane 1		feet	New AC Top Width	36	feet
---CL---		feet	New AC Depth	4	inches
Lane 1		feet	New Base Depth	12	inches
Lane 2	12	feet	Project Length	440	feet
Shoulder	6	feet	Net Road Work Length	100	feet
Right Sidewalk	5.5	feet	X-S Side Slope		
Right Side Rail	1	feet	AC Avg Width	36	feet
			Base Avg Width	36	feet
Bridge Length	340	feet	Asphalt Density	150	pounds/ cu ft
Bridge Width	49	feet	Base Density	125	pounds/ cu ft
New Area	16660	square ft.	New AC Received	90	tons
			New Base Required	225	tons

COST ESTIMATE:	Quantity	Unit	Price per unit	Cost ($x1000s)
Right-of-Way	0	Acre	$ 50,000	$5
	==Roadway==			
Clear & Grub	$ 1,000	lump sum		$1
General Excavation	200	cubic yards	$ 10.00	$2
Embankment in Place	-	cubic yards	$ 26.00	$0
Pavement Removal	400	square feet	$ 2.00	$1
Aggregate Base	225	tons	$ 14.00	$3
Asphalt Concrete	90	tons	$ 55.00	$5
Riprap	180	cubic yards	$ 32.00	$6
Guardrail, Type 2A	-	feet	$ 15.00	$0
Guardrail, Type 3	-	feet	$ 35.00	$0
Guardrail Trans	-	feet	$ 1,650.00	$0
Flared Terminals	-	each	$ 1,500.00	$0
			Subtotal Roadway	$18
Structures	16,660	square feet	$ 75.00	$1,250
Signals	*$ -*	*lump sum*		*$0*
Illumination	$ 10,000	lump sum		$10
Temporary Protection	$ 10,000	lump sum		$10
Remove Existing Bridge	$ 14,112	square feet	10	$141
EC, S&C, End Panels	$ 188,000	lump sum		$188
RC Sidewalk	57,000	lump sum		$57
			Subtotal Structures	$1,656
			Subtotal Construction	$1,673
	==Engineering==			
Construction Engineering	15	percent of construction		$251
Contingency	25	percent of construction		$418
			Subtotal Const. Eng.	$669
Preliminary Engineering				
Consultant	15	percent of construction		$251
State	3	percent of construction		$50
County	2	percent of construction		$33
			Subtotal PE	$335
			Total Estimate	$2,682

Bridge Project Prospectus
Additional Bridge Information

Applicant: CITY OF KLAMATH FALLS		NBIS Bridge Number: 62002	
Project Name / Section: "A" CANAL (11TH STREET) BRIDGE	Region: 4	Area: S CENTRAL	District: 11

Funding

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

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

Heavy Vehicle Usage

	Existing	Proposed
Truck AADT:	438	730

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

Detour

Detour Route:
Length: 1
Map: (Please attach map)

Regional Freight Corridor Analysis:

11th Street is an urban collector that provides the primary link between the CBD to the northwest area of the city. It has a direct connection to US97Bus and is considered a local freight corridor.

Special Consideration:

This type of bridge is same type of bridge (RCDG) that are having problems due to shear cracking. The type of bridge, H15 design, and evidence of deterioration throughout the bridge warrant this bridge for replacement. The ADT of 4380 is based on traffic counts taken by the City in 2002 and should be used in the SR and OTIA evaluations in lieu of the out-dated NBI ADT estimate of 3006.

Bridge Project Prospectus

Requested Changes to National Bridge Inventory System (NBIS) Data

(Form Optional)

Applicant: CITY OF KLAMATH FALLS	Bridge Number: 62002		
Project Name / Section: "A" CANAL (11TH STREET) BRIDGE	Region: 4	Area: S CENTRAL	District: 11

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-96-001, 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 26	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 KLAMATH FALLS	Bridge Number: 62002		
Project Name / Section: "A" CANAL (11TH STREET) BRIDGE	Region: 4	Area: S CENTRAL	District: 11

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-96-001, December 1995.

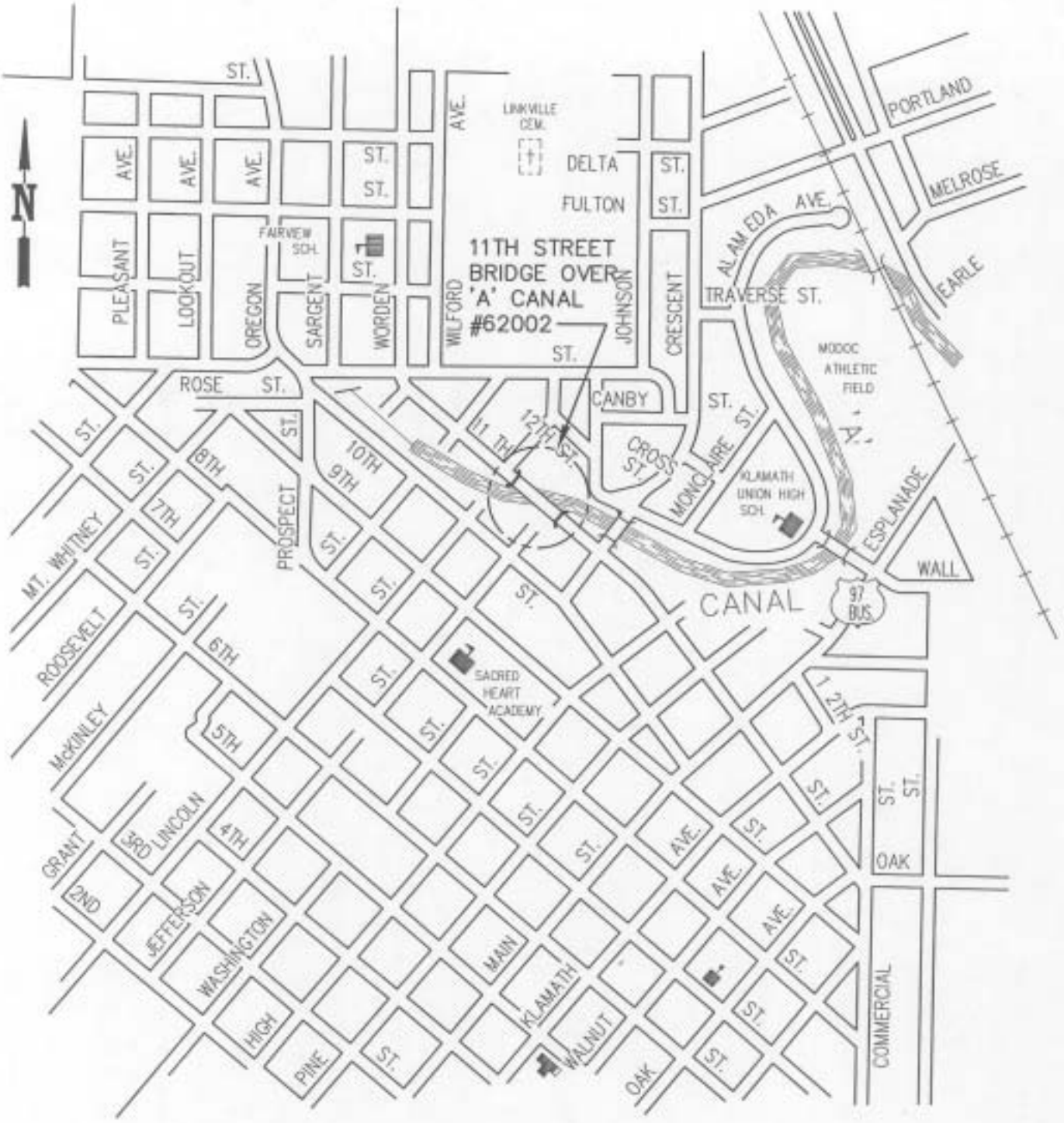
Item 19	Detour Length	
Item 26	Functional Classification	
Item 28	A Lanes on Structure	
Item 32	Approach Roadway Width	
Item 36	Traffic Safety Features	
Item 43	Structure Type, Main	
Item 51	Bridge Roadway Width	
Item 53	Vertical Clearance over Deck	
Item 54	Underclearance	
Item 55	Minimum Left	
Item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

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

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

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	



SCALE: NONE

CITY OF KLAMATH FALLS

MK	Date	Revision:

BRIDGE PROSPECTUS

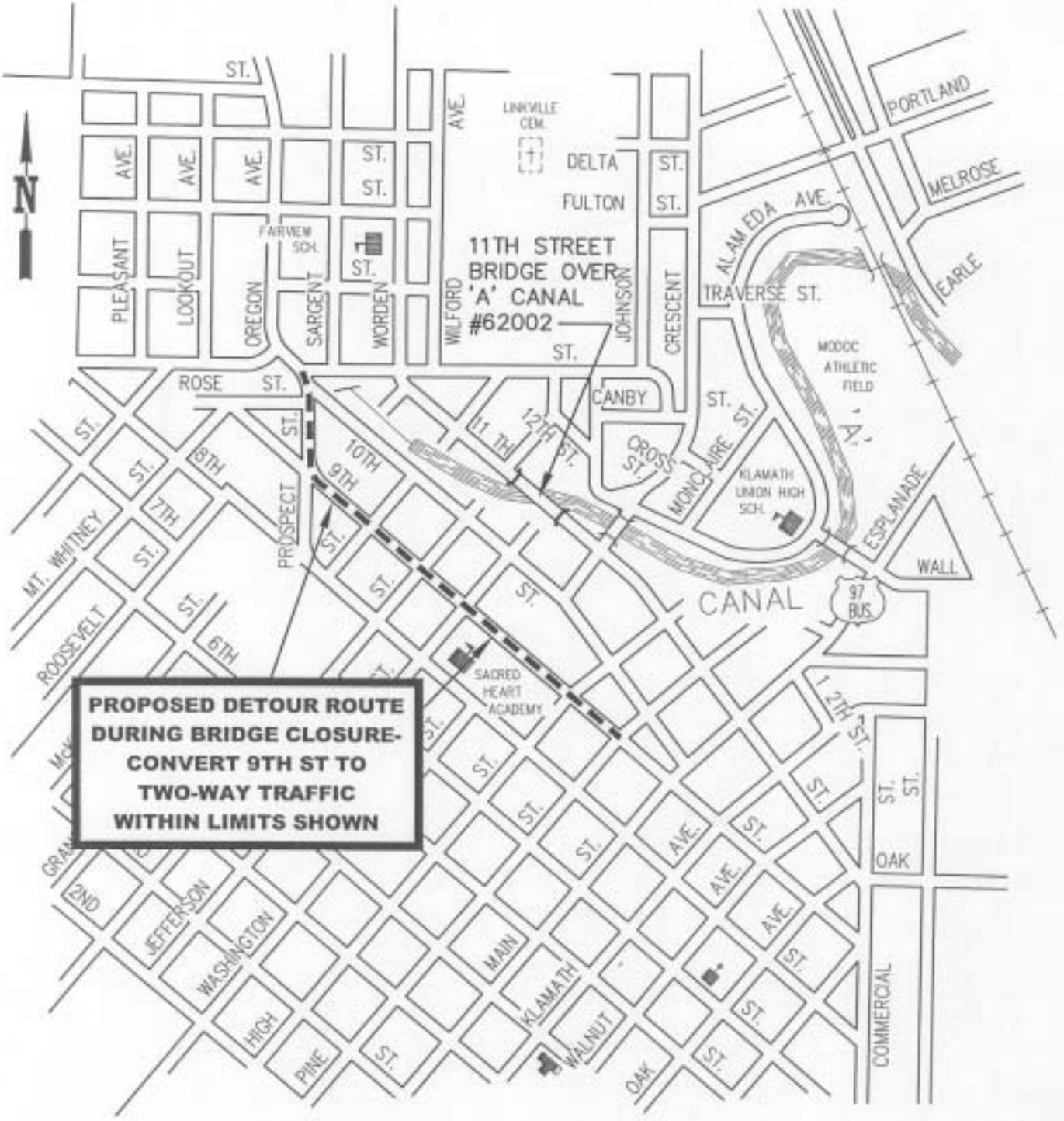
11TH ST BRIDGE #62002

Approved By:

Drwn. By: WEM

Date: 10/03

Drwg. No.: **11ST-1**



SCALE: NONE

CITY OF KLAMATH FALLS

MK	Date	Revision:

BRIDGE PROSPECTUS

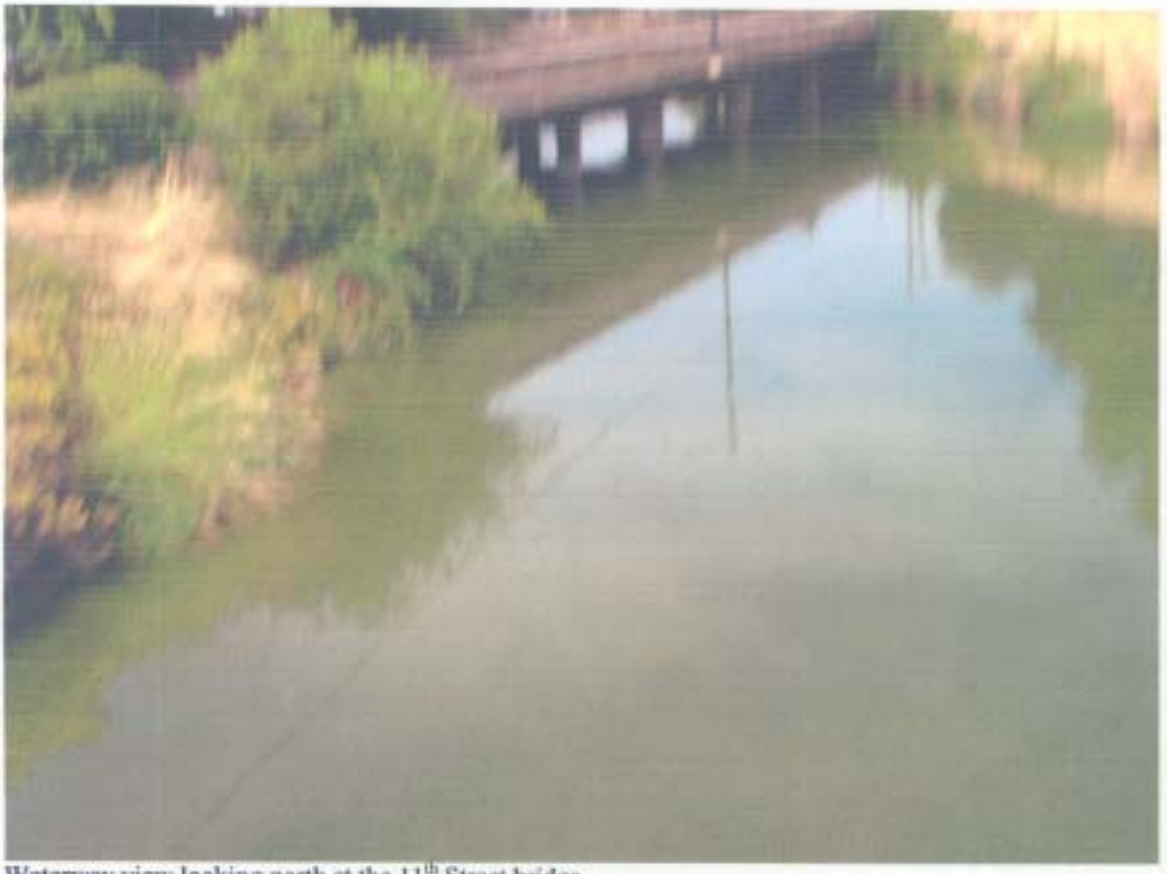
BRIDGE DETOUR ROUTE

Approved By: _____

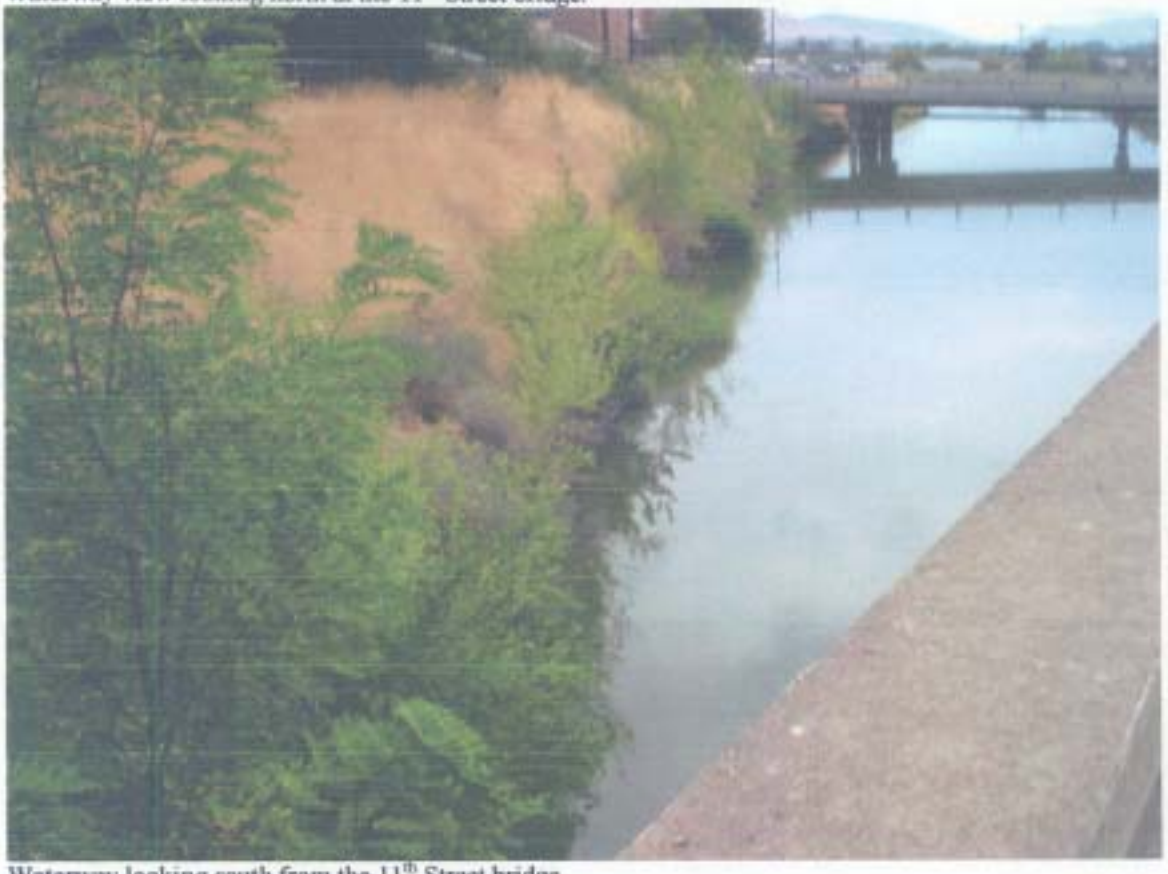
Drwn. By: WEM

Date: 10/03

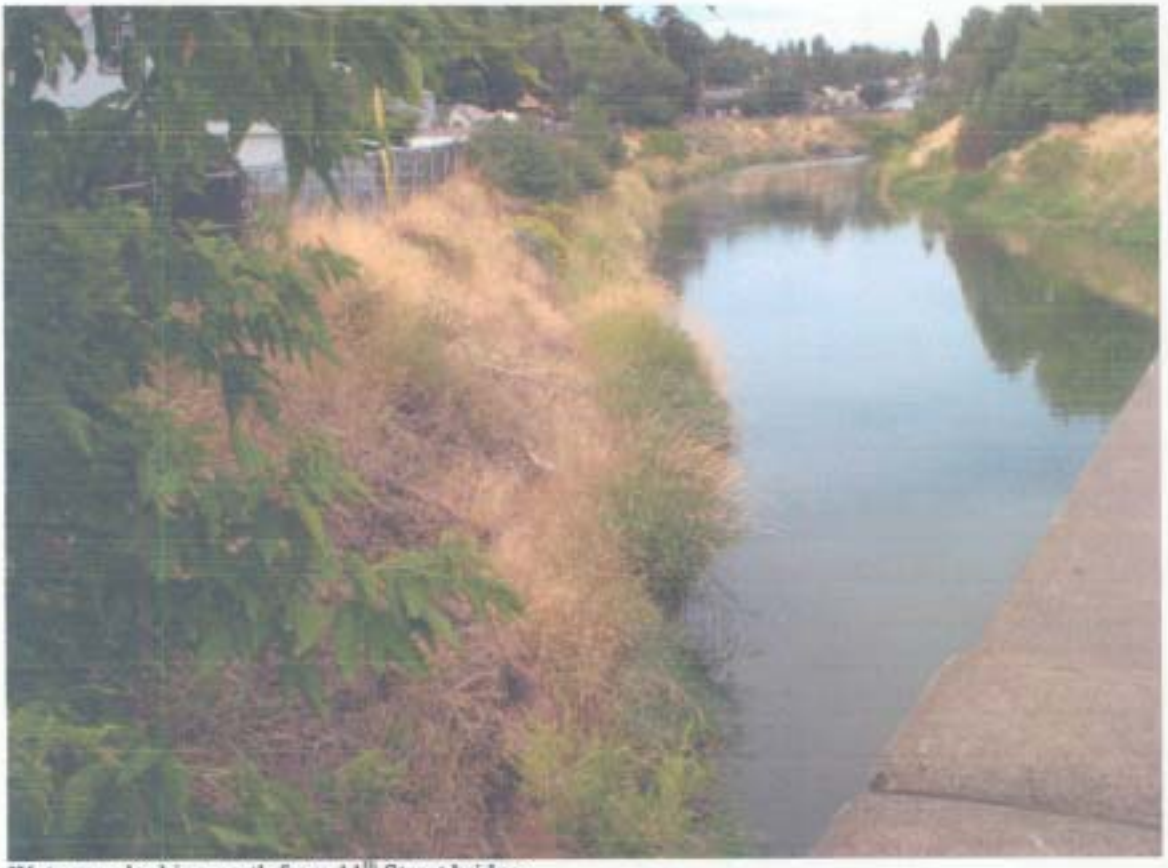
Drwg. No.: **11ST-2**



Waterway view looking north at the 11th Street bridge.



Waterway looking south from the 11th Street bridge.



Waterway looking north from 11th Street bridge.

Underside of bridge with column in active flowing stream.

Underside of bridge overhang.

Numerous bridge columns in the active flowing stream.

Underside of bridge overhang.

Steep eroded end slopes under the bridge.

Southwest quadrant to bridge. Sidewalk and bridge rail to the right.

West side of bridge showing substandard and deteriorated bridge rail.

Deteriorated sidewalk on bridge.

Looking south from bridge at sidewalk and intersection with Washington St.