



PROJECT PROSPECTUS

Part 1 — Project Request (Page 1 of 2)

Key Number:	Jurisdiction:
-------------	---------------

Section:	Calapooia River (Brownsville) Br #2373	Region:	Area:	District:
		2	4	4

State Highway No.:	Highway Name:	Mile Point	Length: (mi)	(km)
		From: 0.28 To: 0.35	0.07	

<input type="checkbox"/> Urban	City:	MPO:	Within UGB	<input type="checkbox"/> Yes	County:	Road/Street Name:
<input checked="" type="checkbox"/> Rural			<input checked="" type="checkbox"/> No		Linn	Main Street, Brownsville

Route No.:	NHS	<input type="checkbox"/> YES	HPMS:	FC:	Applicant (If other than State):
		<input checked="" type="checkbox"/> NO			Linn County

US Congressional District:	State Senate District:	State Representative District:
----------------------------	------------------------	--------------------------------

Cost Estimates (x \$ 1,000)	Project Components	Right Of Way
------------------------------	--------------------	--------------

Preliminary Engineering	\$204	Grading	X	Files	(#)	4
Right Of Way	\$10	Paving	X	Hectares	(#)	1
Utility Reimbursement		Structures	X	Relocations	(#)	0
		Signing		Acquisitions	(#)	4
Roadway	\$124	Signals		Easements	(#)	
Structures	\$500	Illumination	X	Work By: State / Consultant / Applicant		
Signals	\$0	'Other' includes: (Phase 1 Seismic Retrofit)	X	Preliminary Engineering	(S,C,A)	C
Illumination	\$50	(1-Pier Cap Replacement & 8-Cap Repairs)	X	Construction Engineering	(S,C,A)	C
Temp. Protection	\$19	(MC Deck O'lay, Exp. Joints, Deck Drains)	X	Right of Way Descriptions	(S,C,A)	C
Const. Contingencies	\$243			Right Of Way Acquisitions	(S,C,A)	C

Const. Engineering	\$146	Project Categories			Constructed By	
Remove Exist Bridge	\$0	Environmental Class	(1, 2, 3, PCE)	2	<input checked="" type="checkbox"/> Contract	<input type="checkbox"/> County Force
Other	\$278	Design Category	(1-7)	7	<input type="checkbox"/> State Force	<input type="checkbox"/> Other
Total CE and Construction:	\$1,360	Work Type Code	(1-13)	5	<input type="checkbox"/> City Force	
Total Estimate:	\$ 1,574	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 (#)	2	2	The Brownsville Bridge is the main access into the City of Brownsville. The overall condition of the main steel through truss is in good condition. The truss needs to be thoroughly cleaned and painted and needs a deck structural overlay. However, the south prestressed concrete approach spans are in need of rehabilitation.
Structures (#)	1	1	
Signals (#)	0	0	
Bike Way (#)	0	0	
Average Daily Traffic	1922		
Year of ADT	2003		
Throughway Y/N	Y	Y	

Describe Proposed Solution: - Attach Sketch Map			
See Project Justification for a more detailed rehabilitation.			

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



PROJECT PROSPECTUS

Part 1 Project Request (Page 2 of 2)

Key Number:

Jurisdiction:

Section: Calapooia River (Brownsville) Br #2373

Region: 2

Area: 4

District: 4

Project Justification

The SR rating on this bridge is 48 with an inventory load rating of only 58,000 pounds. The proposal is to rehabilitate rather than replace the structure due to the increased cost of replacement and local community's desire to maintain the historic appearance of the existig bridge. Rehabilitate the Brownsville Bridge with the following issues needing to be addressed.

- Sandblast and paint the entire truss. This will require full containment operation.
- Microsilica concrete deck overlay on the truss only.
- Remove all existing AC on south approach spans, check grouted key ways, possible waterproof membrane w/ AC overlay.
- Repair pier cap support of approach slabs @ south pier.
- Repair / retrofit 8 approach bent caps (existing steel pins for prestressed slabs have caused the caps to break-out and spaul). Prestressed slabs do not sit in the middle of the pile caps. Need to do more investigation to address problem. Solution will likely entail widening or replacing the bent caps.
- Possibly install closed drainage system on the truss. SR rating of 48 inventory of 58,000

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 LINN _____ County

By: _____ By: Darrin Lane, Roadmaster

By: _____ By: _____

By: _____ By: _____

Applicable Intergovernmental Agreements:

IGA Number:	Jurisdiction Name:	Agreement Date:
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Administrative Recommendation

Bridge Prospectus Cost Estimate

Applicant:		NBIS			
Project / Section		Linn County	Bridge No.	2373	
		Calapooia River (Brownsville) Br	Region:	2	Area:
		#2373	4	4	District:
		2	4	4	4
New Bridge / Roadway Configuration:			Existing Bridge:		
Left Side Rail		feet	Bridge Length		508 feet
Left Sidewalk		feet	Bridge Width		26 feet
Shoulder	1	feet	Area		13208 square ft.
Lane 2		feet			
Lane 1	12	feet	New AC Top Width		26 feet
--CL--	0	feet	New AC Depth		3 inches
Lane 1	12	feet	New Base Depth		inches
Lane 2	0	feet	Project Length		800 feet
Shoulder	1	feet	Net Road Work Length		422 feet
Right Sidewalk	0	feet	X-Sect Side Slope		3 :1
Right Side Rail	0	feet	AC Avg Width		26.75 feet
			Base Avg Width		27.5 feet
Bridge Length	378	feet	Asphalt Density		150 pounds/ cu ft
Bridge Width	26	feet	Base Density		120 pounds/ cu ft
New Area	9828	square ft.	New AC Received		212 tons
			New Base Required		0 tons
COST ESTIMATE:			Price		Cost (\$x1000s)
Right-of-Way	0.50	Acre	per unit		
			\$ 20,000		\$10
		==Roadway==			
Clear & Grub		lump sum			\$0
General Excavation	60	cubic yards	\$ 12.00		\$1
Embankment in Place	8,700	cubic yards	\$ 12.00		\$104
Pavement Removal	9,828	square feet	\$ 0.50		\$5
Aggregate Base	120	tons	\$ 16.00		\$2
Asphalt Concrete	212	tons	\$ 56.00		\$12
Riprap		cubic yards	\$ 50.00		\$0
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		\$124
Str (sandblast & paint truss	500,000	lump sum	1.00		\$500
Signals	\$ -	lump sum			\$0
Illumination	\$ 50,000	lump sum			\$50
Temporary Protection	\$ 19,400	lump sum			\$19
Remove Existing Bridge		square feet			\$0
Mobilization	\$ 88,200	lump sum			\$88
MC O'lay, Seismic, joints	\$ 101,000	lump sum			\$101
Cap repair/replace-9 Bents	\$ 89,000	lump sum	1.00		\$89
			Subtotal Structures		\$848
			Subtotal Construction		\$971
		==Engineering==			
Construction Engineering	15	percent of construction			\$146
Contingency	25	percent of construction			\$243
			Subtotal Const. Eng.		\$389
Preliminary Engineering					
Consultant	18	percent of construction			\$175
State	1	percent of construction			\$10
County	2	percent of construction			\$19
			Subtotal PE		\$204
			Total Estimate		\$1,574

Bridge Project Prospectus Additional Bridge Information

Applicant: Linn County		NBIS Bridge Number: 2373	
Project Name / Section: Calapoia River (Brownsville) Br #2373		Region: 2	Area: 4
		District: 4	
Funding Preferred Source: <input checked="" type="checkbox"/> OTIA III <input type="checkbox"/> Federal HBRR Acceptable Source: <input checked="" type="checkbox"/> OTIA III <input checked="" type="checkbox"/> Federal HBRR	Heavy Vehicle Usage <div style="text-align: center;">Existing Proposed</div> Truck AADT: <input style="width: 50px;" type="text"/> / <input style="width: 50px;" type="text"/> Fire Truck Usage: <input checked="" type="checkbox"/> YES, at least 25% of trips use bridge. <input type="checkbox"/> NO. Less than 25% of trips	Detour Detour Route: Length: <input style="width: 50px;" type="text"/> 12-mi. one way Map: (Please attach map)	
Regional Freight Corridor Analysis:			
<p>The city of Brownsville is a commuter city to the Eugene and Albany areas. The city's surrounding areas have numerous farming sites all of which use this bridge to deliver and receive goods. Highway 228 is approximately 1/4 of a mile south of the bridge location at which goods are delivered to and from the Brownsville area.</p>			
Special Consideration:			
<p>This bridge is on a seismic priority-1 lifeline route and is the only connection from the south side of the city of Brownsville to the north side. The shortest route around this bridge is approximately 12-miles one way. This is a considerable amount of driving time required during an emergency if the bridge were to become unpassable.</p>			
<p>This bridge provides access to several properties zoned for farm and industrial use. Some of these properties are undeveloped and have the potential to produce future jobs. Access to multiple current businesses is provided directly from this bridge.</p>			

Bridge Project Prospectus

Requested Changes to National Bridge Inventory System (NBIS) Data

(Form Optional)

Applicant: Linn County	Bridge Number: 2373		
Project Name / Section: Calapooia River (Brownsville) Br #2373	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 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 58	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 68) 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 68	Inventory Rating	
---------	------------------	--

Bridge Project Prospectus

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

(Form Optional)

Applicant: Linn County	Bridge Number: 2373		
Project Name / Section: Calapooia River (Brownsville) Br #2373	Region: 2	Area: 4	District: 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-98-001, 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	
---------	------------------	--











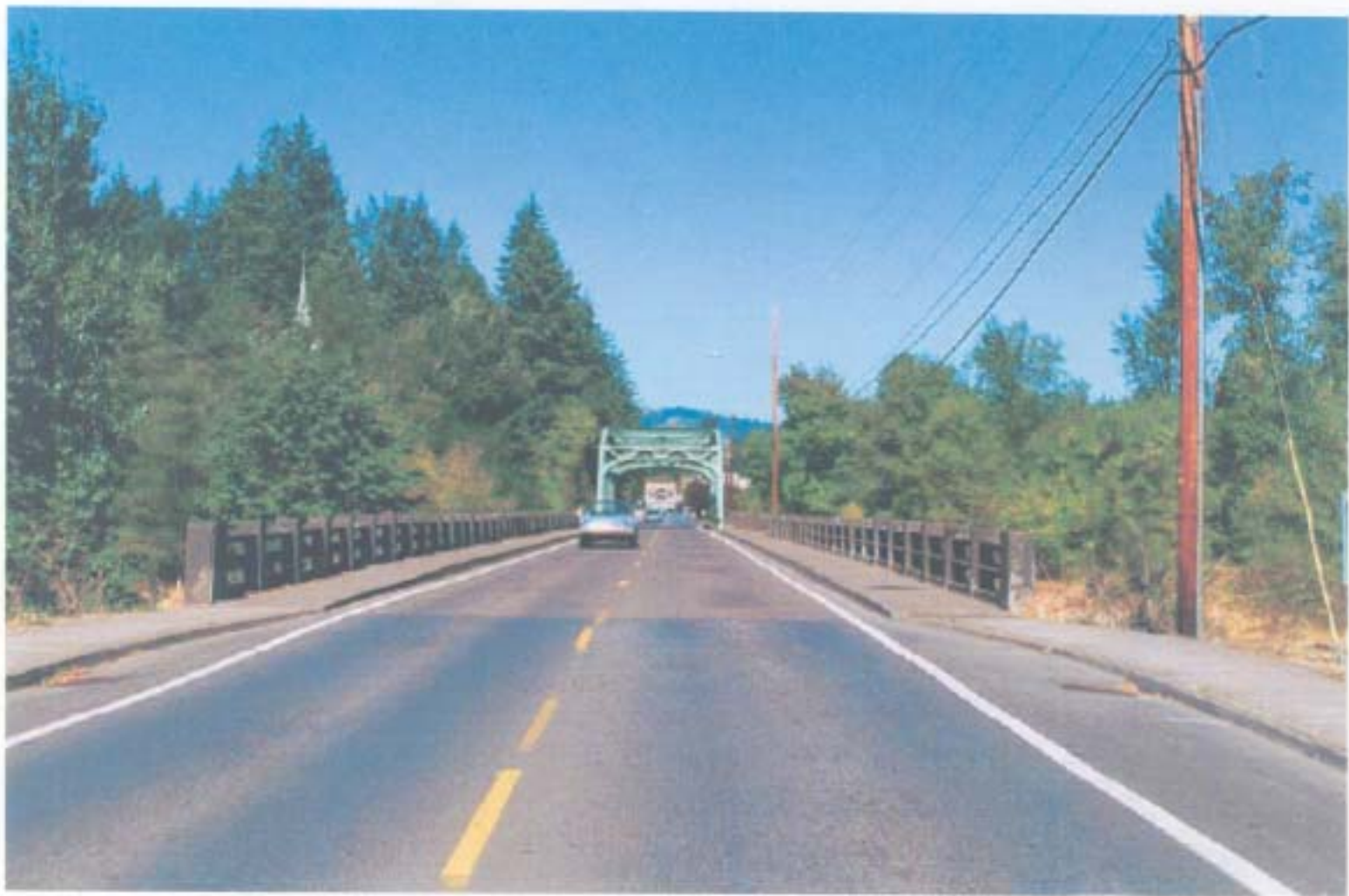




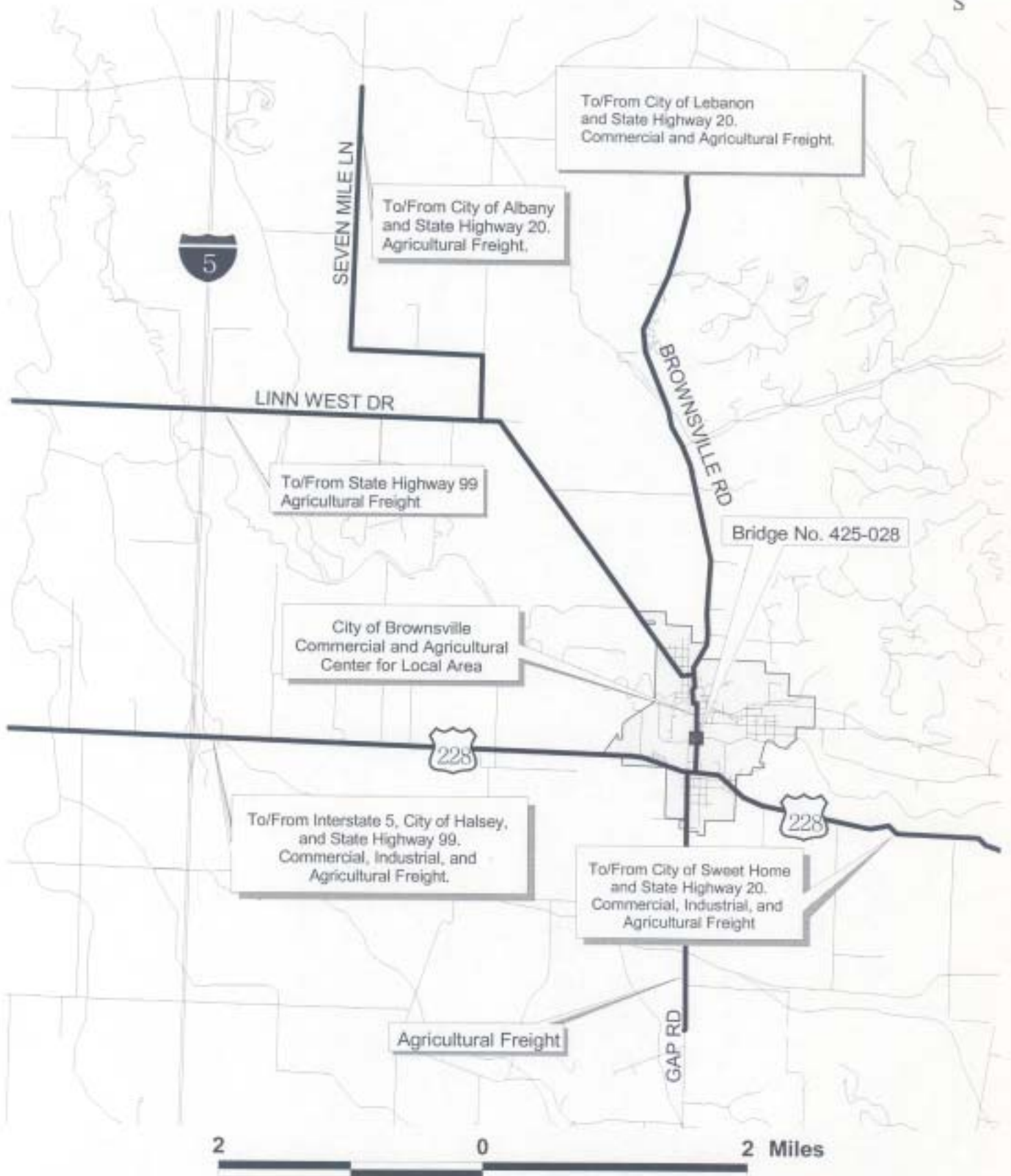








Brownsville Road Freight Corridor Bridge No. 425-028





MC Overlay

Area = $130' \times 24' = 3,120 \text{ ft}^2$ (Small quantity)

Class 2 Prop. - $\$10/\text{ft}^2 \times 315 \text{ ft}^2 = \$3,500$

Construct MC Resurf. - $\$10/\text{ft}^2 \times 3,120 = 31,500$

Furnish MC - $\$400/\text{yd} \times 20 \text{ yd} = 8,000$

\$43,000

Exp. Jts

2 @ 24' x $\$120/\text{ft} = \$6,000$

Seismic

Truss span - $\$10/\text{ft}^2 \times 3,120 \text{ ft}^2 = \$30,000$