. SITE I.D. NO		HABS/H INVENT		U.S. Departm National Park Washington, I	Serv	ice	Interi
Costilla Crossing Bridge Bridge over Rio Grande F CDH: CON14.6E-00.0N		01 s. ORIGINAL USE roadway bridge	7 CLASSIFICATION BT&A: TRUSS: WROUG	HT IRON	7	6	0
County Road over Rio Gra 13.8 miles east of Antor SE¼ S22, T33N, R11E		6. PRESENT USE roadway bridge	8 UTM ZONE EASTING 1 3 4 3 2 7		3	6 5	10
Antonito vicinity 2. OWNER/ADMIN ADDRESS	county Conejos	Colorado Colorado	SCALE 1:62 OTHER	5 QU NAI	AD	Kiow	va l

Conejos County Courthouse 13. DESCRIPTION AND BACKGROUND HISTORY INCLUDING CONSTRUCTION DATE(S), PHYSICAL DIMENSIONS, MATERIALS, MAJOR ALTERATIONS, EXTANT EQUIPMENT, AND IMPORTANT BUILDERS, ARCHITECTS, ENGINEERS, ETC.

Pin/rigid-connected, 8-panel iron/steel Thatcher through truss

span number: span length: 155'4" overall length: 313'6" overall height: 25'0"

clearance hgt.: 17'6" roadway width : 15'8"

Conejos County

end/top chrd: 4 Z-sections w/continuous plate; 2 channels w/lacing

Cone.jos Colorado 81129

bottom chord: 2 rectangular eyebars

vertical: 2 square eyebars; 4 angles w/ lacing

2 square or rectangular eyebars; 2 channels w/ lacing diagonal: flr./decking: timber decking w/timber/log/steel stringers and tapered

built-up steel floor beams

substructure: stone abutments w/ steel-cased concrete twin-tube pier

In April 1891 the Colorado State Legislature appropriated \$10,000 for a bridge at the Costilla Crossing of the Rio Grande River between Costilla and Conejos counties. Rather than design the bridge as usual, the State Engineer solicited plans and specifications with the competitive bids from bridge companies. The response was unprecedented: 38 proposals were submitted. In February 1892, the construction contract was awarded to the Wrought Iron Bridge Company of Canton, Ohio, for \$8400. Using wrought and cast iron and steel components, the contractor erected this twospan Thatcher truss that year, completing it by the end of August. Once a pivotal crossing of the river in southern Colorado, the bridge now serves as an isolated and relatively minor span. Its condition is unaltered.

Box 127

14. CONDITION	EXCELLENT	GOOD	FAIR	DETERIORATED	RUINS	15. DANGER OF DEMOLITION? (SPECIFY THREAT)	YES	Пио	Пикиоми	rydes
(freedom)										

16. SIGNIFICANCE AREA OF SIGNIFICANCE: Engineering Edwin Thatcher, Chief Engineer of the Keystone Bridge Company, patented a namesake truss in 1884. An innovative structural type, it never quite caught on, and Wrought Iron Bridge was apparently the only bridgebuilder to manufacture allmetal versions of it. With perhaps 30-40 ever built in the country, only three are known to exist today, including the Costilla Crossing Bridge. This bridge is historically significant as the oldest vehicular truss in southern Colorado and one of the oldest in the state, the oldest still-functioning State Bridge, one of the few bridges left in Colorado with iron components and one of only two roadway bridges in the survey erected by Wrought Iron Bridge before that firm was absorbed to form the gargantuan American Bridge Company. In absolutely pristine condition, the Costilla Crossing Bridge is one of the last of its type - the state's most technologically significant vehicular bridge.

the Interior

iowa Hill

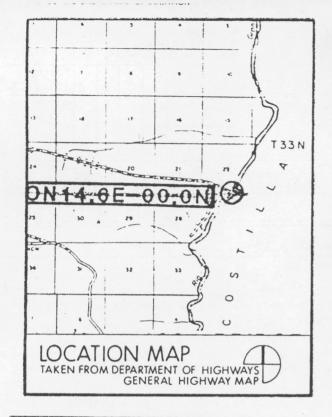
9 BATING

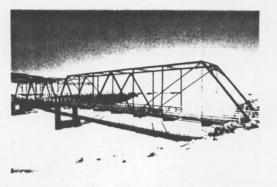
10. DATE 1892

11. REGION

RMRO

national







18 LOCATED IN AN HISTORIC DISTRICT?	YES	NO	NAME							
19 PUBLIC ACCESSIBILITY YES, L		YES, UNLIMIT UNKNOWN	ED	20. EXISTING SURVEYS	NR NHL COUNTY L	□HABS OCAL □	HAER-1	HAER	NPS	STATE

REFERENCES—HISTORICAL REFERENCES, PERSONAL CONTACTS, AND/OR OTHER

Structure Inventory and Appraisal: CON14.6E-00.0N. Colorado Department of Highways, Denver Colorado.

6th Biennial Report of the State Engineer, Colorado: 1891-1892. Denver, Colorado: Smith-Brooks Printing Company, 1892, pages 368-69.

Highway Planning Survey photograph, 30 September 1936. Colorado Department of Highways, Denver Colorado.

Donald Jackson, HAER Historian. Oral interview with Clayton Fraser, 13 January 1984.

Field inspection by Clayton Fraser, 3 January 1984.

Builder's plate on bridge portal: "1892 Built by Wrought Iron Bridge Co. Canton Ohio."

"Organization of the American Bridge Company." <u>Electrical World and Engineer</u>, Vol. XXXVI, Number 1 (7 July 1900). page 38.

Clayton Fraser and CarlHallberg Fraserdesign Loveland Colorado DATE 13 January 1984				
Clayton Fraser and CarlHallberg Fraserdesign Loveland Colorado 13 January 1984		AFFILIATION		DATE
	Clayton Fraser and CarlHallberg	Fraserdesign	Loveland Colorado	13 January 1984

United States Department of the Interior National Park Service

National Register of Historic Places Inventory—Nomination Form



Continuation sheet

Item number

Page 7 of 6

Multiple Resource Area Thematic Group

Stat	te COLORADO			
Non	nination/Type of Review		/	Date/Signature
11.	Avondale Bridge	Entered in the National Register	Keeper	Selver Byen 2/4/8
12.	Black Bridge	Entered in the National Register	Attest Keeper	SelverByen 2/4/8
13.	Bridge over Fountain Cre	eekEntered in the	Attest	SelverByen 2/4/8
14.	Bridge No. 10/Adelaide Bridge	Entered in the Mational Register	Attest	Albres Byen 2/4/
15.	Procedurary Presiden	Entered in the Mational Register	Attest	Helver Byen 2/4/0
			Attest	
6.	Commercial Street Bridge	Entered in the Mational Besister	-Keeper	Selver Byen 2/4/
7.	Costilla Crossing Bridge	Entered in the Pational Register	Attest f Keeper	Aclous Byers 2/4,
8.	Delta Bridge	Entered in the	Attest &Keeper	Allore Byers 2/4
		ntered la the	Attest	
9.	Elson Bridge	Highal Begister	Theeper	Selvery 3/4
).	Escalante Canon Bridge	Entered in the	Attest Keeper	Actors Byen 2/4
			Attest	7

WASO Form - 177 ("R" June 1984)

boundary selection

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES EVALUATION/RETURN SHEET

Costilla Crossing l	Bridge (Vehicul	ar Bridges in		0.7.1004	
Conejos County COLORADO				Working No. DEC 27 1984 Fed. Reg. Date: 2/4/86	
resubmission nomination by pers owner objection	on or local governn	nent		Date Due: 1/24/85 2/,0/8 ACCEPT 2 4-85 ACCEPT 2 4-85 REJECT	3
appeal				, oasia, , igene) .	
Substantive Review:	sample	request	appeal	☐ NR decision	_
Reviewer's comments:					
				Recom./Criteria Reviewer Discipline Date see continuation sheet	
Nomination returned fo		corrections cited below re reasons discussed be			
1. Name					
2. Location					
3. Classification					
Category	Ownership Public Acq		Status Accessible	Present Use	
4. Owner of Property					
5. Location of Legal De	escription				
6. Representation in Ex	xisting Surveys				
Has this property been	determined eligible	?	□ no		
7. Description					
Condition excellent good fair	deteriorated ruins unexposed		c one naltered tered	Check one original site moved date	
Describe the present an	d original (if know	n) physical appearance			
summary paragraph completeness clarity alterations/integrity dates					

8. Significance	
Period Areas of Significance—Check and justify below	
Specific dates Builder/Architect Statement of Significance (in one paragraph)	
summary paragraph completeness clarity applicable criteria justification of areas checked relating significance to the resource context relationship of integrity to significance justification of exception other	Costilla Crossing pridge (Veingalar pridges in Contrado 1.0) Conside County Conside County Condition of the County Co
9. Major Bibliographical References	
10. Geographical Data	
Acreage of nominated property Quadrangle name UTM References	
Verbal boundary description and justification	
11. Form Prepared By	
12. State Historic Preservation Officer Certification The evaluated significance of this property within the state is:	
nationalstatelocal	
State Historic Preservation Officer signature	
title date	
13. Other	
☐ Maps ☐ Photographs ☐ Other	
Questions concerning this nomination may be directed to	
Signed Date	Phone:



CN01 Costilla Crossing Bridge 12
Antonito vicinity Colorado
view from northeast

Clayton B. Fraser, photographer Loveland Colorado 3 January 1984