1. SITE I.D. NO	ENTORY	Historic American Engineering Record Department of the Interior, Washington, D.C.				
2. INDUSTRIAL CLASSIFICATION	3. PRIORITY	4. DANGER OF DEMOLITION? (SPECIFY THREAT)	YES INO			
Bridges, Trestles, and Aqueducts 7 5 8	5 1					
	5. DATE	6. GOVT SOURCE OF THREAT	OWNER	ADMIN		
BEAM: continuous concrete	1910/1911					
Local Designation Number:		7. OWNER/ADMIN				
N2 67030110013300		City of Tacoma				
8. NAME(S) OF STRUCTURE		9. OWNER'S ADDRESS				
North 21st Street Bridge	City Public Works Department					
-	City-County Building					
	CONG.	Tacoma, Washington 98402				
COUNTY 053 Pierce Tacoma	DIST.	COUNTY		DIST.		
11. SITE ADDRESS (STREET & NO)		12. EXISTING INR INHL SURVEYS	HABS HAER-			
between North Fife and Oakes			STATE COUN	TY DLOCAL DOTHER		
Crossing: Buckley Gulch		13. SPECIAL FEATURES (DESCRIBE BELOW)				
S.T.R. 31 21N 3E		INTERIOR INTACT	EXTERIOR INTACT	ENVIRONS INTACT		
14. UTM ZONE EASTING NORTHING	SIGN SCALE	1:62.5				
10 540120523480	0		NAME Tacoma	North, Washington		
UTM ZONE EASTING NORTHING	SIGN SCALE	1:24 1:62.5	QUAD			
			NAME			
15 CONDITION 70 EXCELLENT 71 GOOD 72 FAIR	73 DETERIORATED	74 RUINS 75 UNEXPOSED	76 🗖 ALTERED	82 DESTROYED 85 DEMOLISHED		
16. INVENTORIED BY	AFFILIATION			DATE		
Lisa Soderberg	HAER/Was	shington State Bridge	Inventory	April 1979		

17. DESCRIPTION AND BACKGROUND HISTORY, INCLUDING CONSTRUCTION DATE(S), HISTORICAL DATE(S), PHYSICAL DIMENSIONS, MATERIALS, EXTANT EQUIPMENT, AND IMPORTANT BUILDERS, ENGINEERS, ETC.

This continuous concrete rigid-frame girder bridge, designed by Waddell and Harrington in 1910, is similar to the longer spanned concrete rigid-frame bridge on 23rd Street which was also designed by the renowned firm. The 21st Street Bridge carried a double track street railway down the middle of its 48 foot wide roadway, providing railway transportation to a residential area in northern Tacoma.

The bridge consists of three 60' reinforced concrete spans with four continuous girders. It is supported on gravity abutments and separate reinforced concrete columns spaced 16' apart. The truncated corners of the columns reflect observations that J.A.L. Waddell made about column design in his book Bridge Engineering: "The architectural treatment of the columns should be in conformity with the lines of the remainder of the structure. For plain, massive work in which there is no ornamentation, rectangular columns with vertical sides will prove quite satisfactory. For more

18. ORIGINAL USE	PR	ESENTUSE	······································	ADAPTIVE USE			
Bridge/vehicular		Bridge/vehicular					
19. REFERENCES HISTORICAL REFERENCES, PERSONAL CONTACTS, AND/OR OTHER							
City Public Works Department Files.							
Carl W. Condit, American Building Art, (New York; 1961), p. 207.							
Bridge plate: "City of Tacoma, 1910".							
J.A.L. Waddell, Bridge Engi	neering, 2 Vols.	, (New York; 1916) pp.	925, 936.		(CONT OVER)		
		ACCESSIBILITY	X YES, UNLIMITED	2	23. EDITOR		
POP. OR MORE? XYES NO	N W	ОиО			INDEXER		
24. LOCATED IN AN HISTORIC DISTRICT?		· · · · · · · · · · · · · · · · · · ·					
				DISTRICT I.D. NO			

pescription (continued)

elabories tructures, it will be best to batter the sides of the shaft." The stark geometric concrete form of the list Street Bridge is by no means elaborate. However, it is noteworthy that the battered corners were used as ornamental mean listments in an attempt to broak the rigid restanced are strength and the start of the st

Like the 23rd Street Bridge, the width and thickness of the slabs and beams are massive and overdesigned. The slab is 9' thick. The beams range from 6' to 2' in width, and from 9' to 11' in deth.

The contribution of the table includences reflects the inperformance in the target property. In 1.1 , which called the transport of the interpret of the interpret of the target property. The target property is a set of the interpret of the interpret of the target of the an approximation of the interpret of the

The Time Street Erreds was built for the City of Facuma by the contractors freehum, Patama and Hang at a cost of 52,003. It is strepticate an early asample of a continuem, concrete grinder bridge. It was built almost simultaneeously with the 550 foot. Asyma More Wisher: In Norrella, which carl Condit decumented in <u>American Building Art</u>, as the First northany. Barrella, More More More Mark, as the first northany. Barrella, More Mark, and Barrella, and Barrella.



25. Photos and Sketch Map of Location



