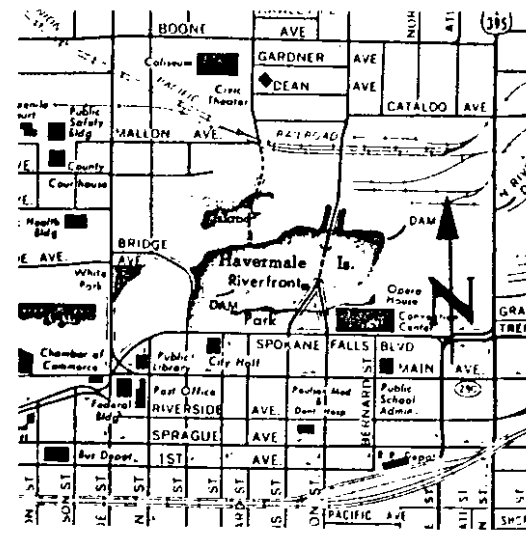


SP 83

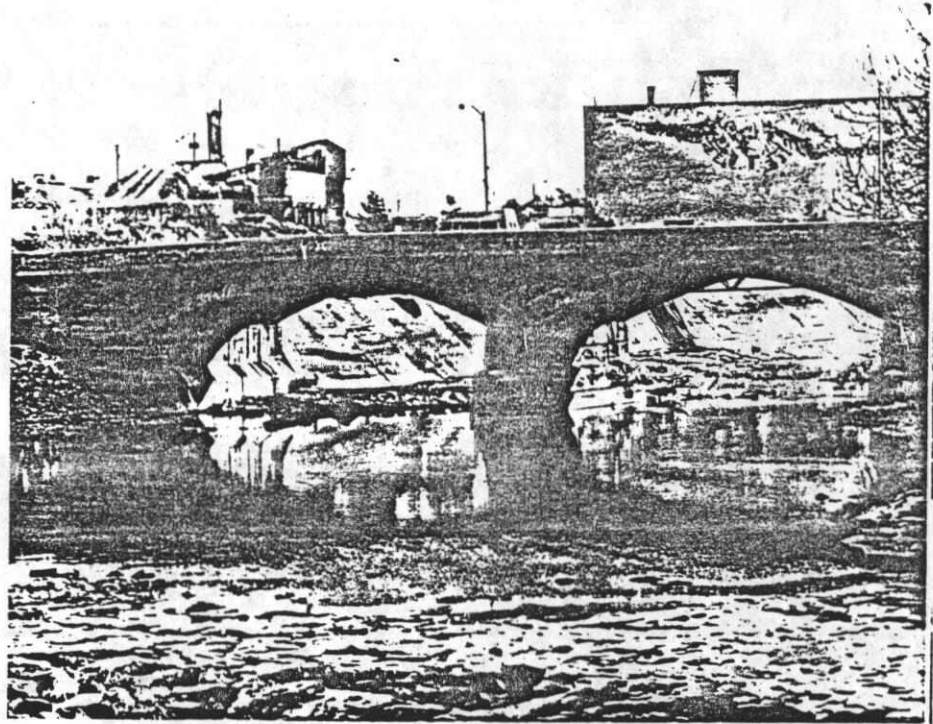
| HAER INVENTORY | | | | | | | | | | Historic American Engineering Record Department of the Interior, Washington, D.C. 20240 | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 1. SITE I.D. NO | | | | | | | | | | 2. INDUSTRIAL CLASSIFICATION Bridges, Trestles, and Aqueducts | | | | | | | | | |
| 3. PRIORITY 1 | | | | | | | | | | 4. DANGER OF DEMOLITION? (SPECIFY THREAT) to be replaced | | | | | | | | | |
| 5. DATE 1908 | | | | | | | | | | 6. GOVT SOURCE OF THREAT OWNER ADMIN | | | | | | | | | |
| 7. OWNER/ADMIN City of Spokane | | | | | | | | | | 8. NAME(S) OF STRUCTURE Washington Street Bridge | | | | | | | | | |
| 9. OWNER'S ADDRESS West 221 Wall Street Spokane, Washington | | | | | | | | | | 10. STATE COUNTY WA 063 COUNTY NAME Spokane CITY/VICINITY Spokane CONG. DIST. 05 | | | | | | | | | |
| 11. SITE ADDRESS (STREET & NO.) Crossing: Spokane River S.T.R. 18 25N 43E | | | | | | | | | | 12. EXISTING SURVEYS NR NHL HABS HAER-1 HAER NPS CLG CONF STATE COUNTY LOCAL OTHER | | | | | | | | | |
| 13. SPECIAL FEATURES (DESCRIBE BELOW) INTERIOR INTACT EXTERIOR INTACT ENVIRONS INTACT | | | | | | | | | | 14. UTM ZONE EASTING NORTHING SIGN 11 468700 5278760 UTM ZONE EASTING NORTHING SIGN | | | | | | | | | |
| 15. CONDITION 70 EXCELLENT 71 GOOD 72 FAIR 73 DETERIORATED 74 RUINS 75 UNEXPOSED 76 ALTERED 82 DESTROYED 85 DEMOLISHED | | | | | | | | | | 16. INVENTORIED BY Lisa Soderberg AFFILIATION HAER/Washington State Bridge Inventory DATE June 1980 | | | | | | | | | |
| 17. DESCRIPTION AND BACKGROUND HISTORY, INCLUDING CONSTRUCTION DATE(S), HISTORICAL DATE(S), PHYSICAL DIMENSIONS, MATERIALS, EXTANT EQUIPMENT, AND IMPORTANT BUILDERS, ENGINEERS, ETC. The Washington Street Bridge is a three spanned reinforced concrete arch constructed in 1908 over the Spokane River. The 242 foot structure consists of three 77 foot flattened ribbed arches. It was designed by Mr. Charles McIntyre, City Engineer of Spokane, who was responsible for the construction of several concrete arches throughout the city. The Wallace-Coates Engineering Company constructed the bridge. J.B. Strauss of the Strauss Bascule and Concrete Bridge Company of Chicago was the consulting engineer. The highway provides a roadway 44 feet wide, curb to curb. The Washington Street Bridge is an early example of concrete construction within the State. The reinforced concrete arch proliferated during the teens as "the extensive construction of hard surface, permanent highways made it necessary to construct bridges of permanent character." The Washington Street Bridge is the oldest surviving concrete arch highway bridge within the State. It is an early example of a ribbed arch. The flattened form of its ribs reflected future developments in concrete arch design. | | | | | | | | | | | | | | | | | | | |
| 18. ORIGINAL USE vehicular | | | | | | | | | | PRESENT USE vehicular | | | | | | | | | |
| 19. REFERENCES - HISTORICAL REFERENCES, PERSONAL CONTACTS, AND/OR OTHER City engineering department files. "Plans for Spokane," Pacific Builder and Engineer, 9 March 1907. | | | | | | | | | | | | | | | | | | | |
| 20. URBAN AREA 50,000 POP. OR MORE? YES NO | | | | | | | | | | 21. NPS REGION NW | | | | | | | | | |
| 22. PUBLIC ACCESSIBILITY YES, LIMITED YES, UNLIMITED NO UNKNOWN | | | | | | | | | | 23. EDITOR INDEXER | | | | | | | | | |
| 24. LOCATED IN AN HISTORIC DISTRICT? YES NO NAME | | | | | | | | | | DISTRICT I.D. NO | | | | | | | | | |



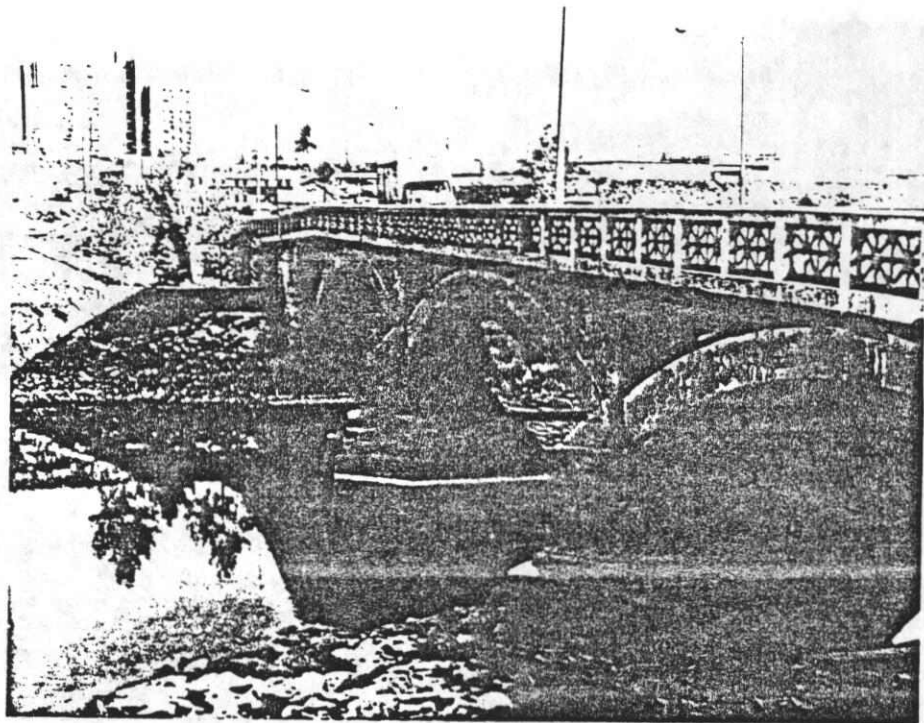
DESCRIPTION (CONTINUED)

REFERENCES (CONTINUED)

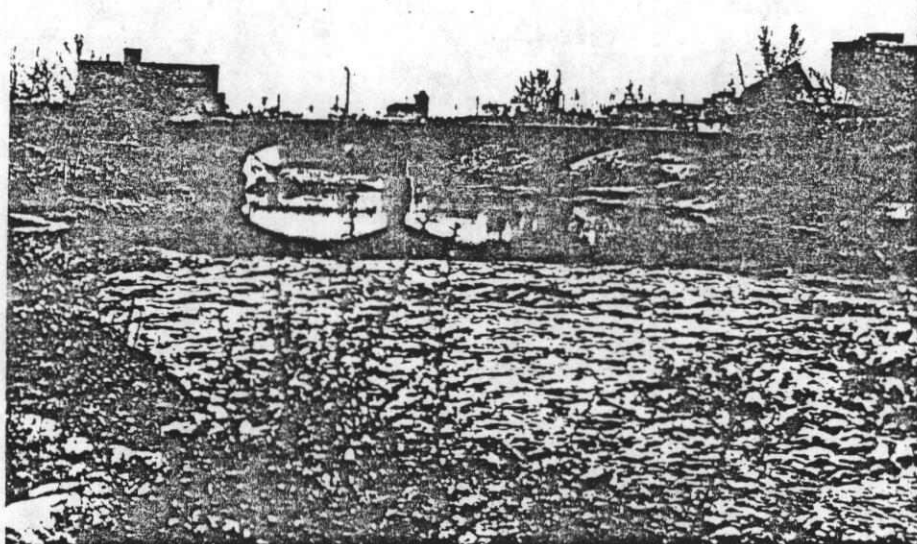
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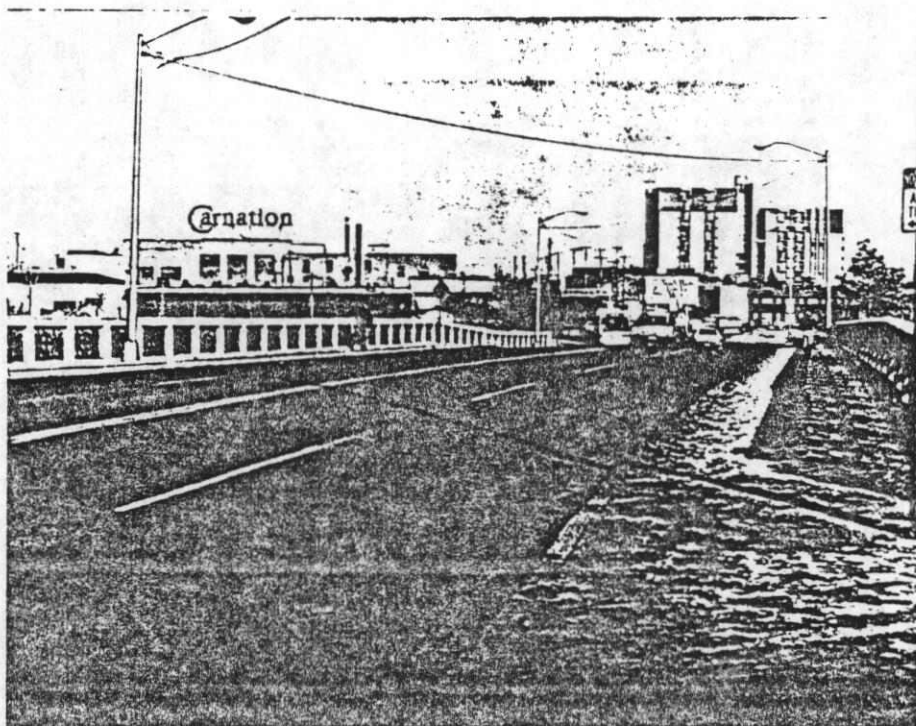
Washington Street Bridge



Washington Street Bridge



Washington Street Bridge



Washington Street Bridge

32
2
1



32
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3



32
2
5



32
2
2



32
2
4



DESCRIPTION (CONTINUED)

REFERENCES (CONTINUED)

ABSTRACT

HAER NO

LC

TECH REPORT

HIST REPORT

CONTEMP PHOTO

HIST PHOTO

CONTEMP DRAWG

HIST DRWG

COLOR PLATE

PHOTOGRAM

SV

FILM

Washington Street Bridge
Spokane, Washington

Detail of concrete; impression of
formwork visible in concrete, looking
south.

6

Washington Street Bridge
Spokane, Washington

View of side elevation; east side.

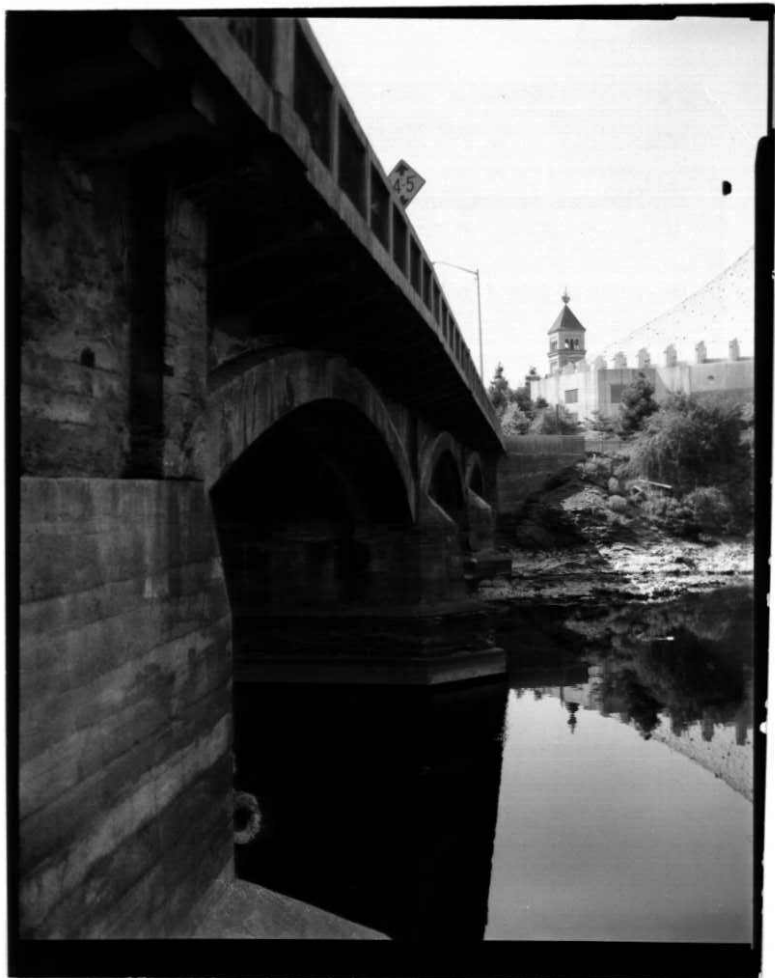
1981

7

Washington Street Bridge
Spokane, Washington

View of side elevation; east side.

8



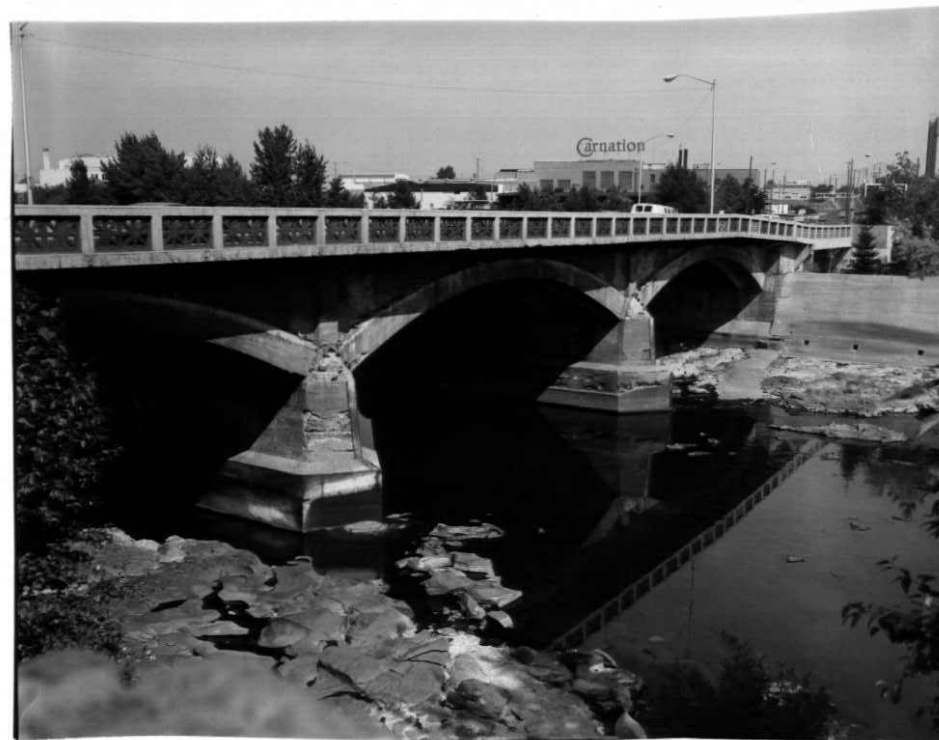
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7



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8

Washington Street Bridge
Spokane, Washington

View of side elevation; east side.

1981

9

Washington Street Bridge
Spokane, Washington

View of side elevation; west side.

10

Washington Street Bridge
Spokane, Washington

View of side elevation, west side.

1981

11



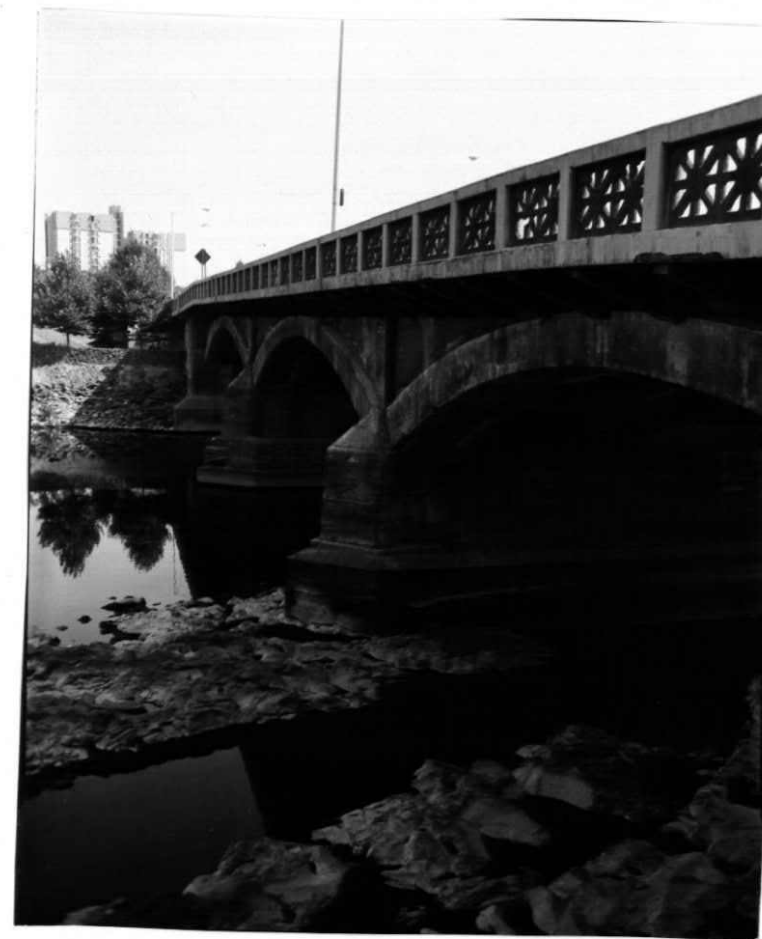
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10

Washington Street Bridge
Spokane, Washington

View of side elevation, west side.

12

Washington Street Bridge
Spokane, Washington

View of roadway, looking south.

1981

13

Washington Street Bridge
Spokane, Washington

View of roadway, looking north.

1981

14



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12



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13



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14

Washington Street Bridge
Spokane, Washington

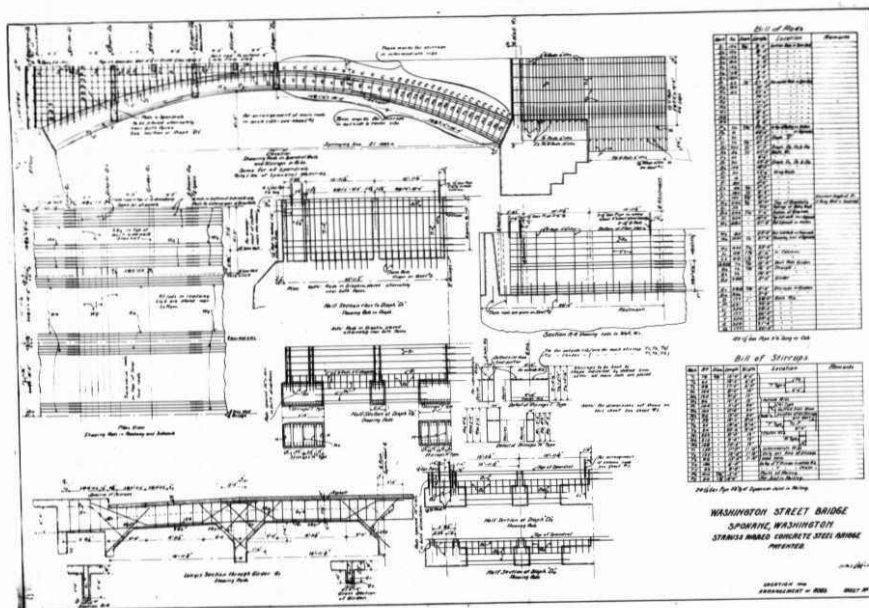
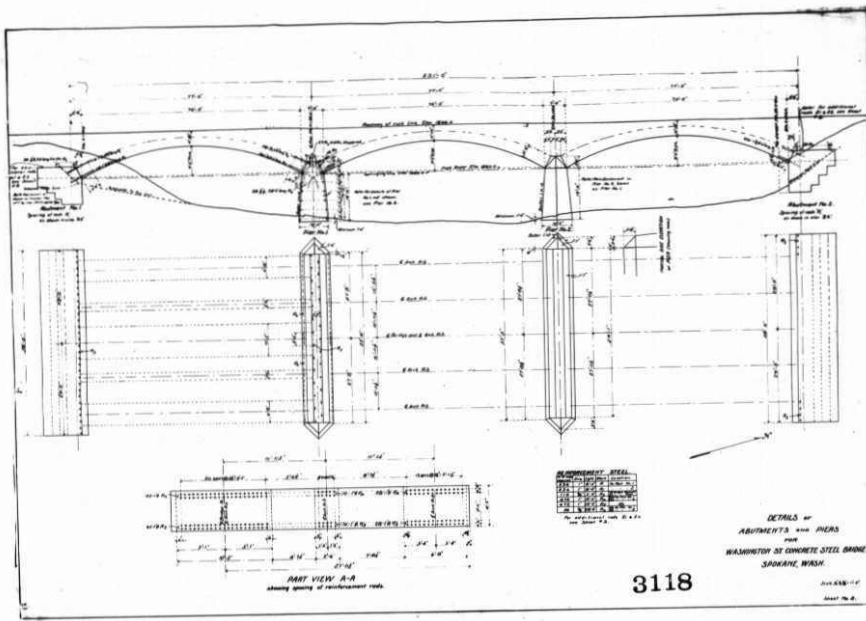
Detail of abutments and piers.

15

Washington Street Bridge
Spokane, Washington

Detail of arrangement of reinforcing
rods.

16



Washington Street Bridge
Spokane, Washington

Design of floor system.

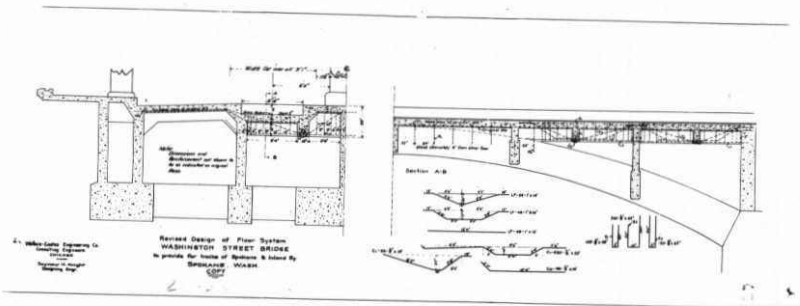
17

Washington Street Bridge
Spokane, Washington

Detail of framework for arch
centering.

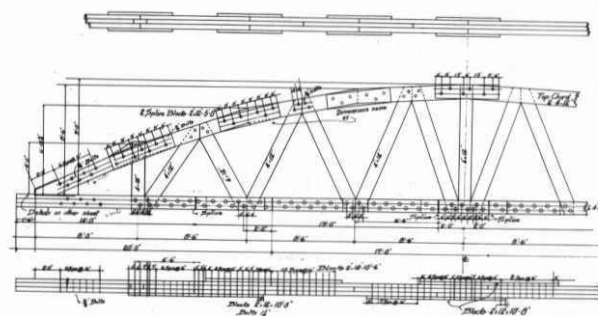
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18

Washington Street Bridge
Spokane, Washington

Detail of arrangement of reinforcing
rods.

Washington Street Bridge
Spokane, Washington

View of side elevation, west side.

1981

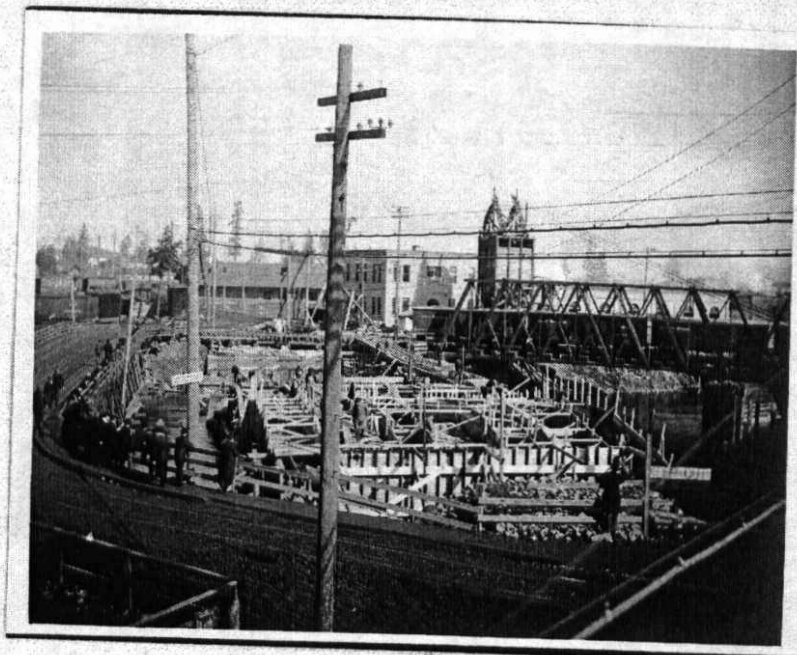
20



Construction of Washington Street
Bridge
Spokane, Washington
1907-1908

Construction of forms; view of
temporary timber trestle to left.

1



Construction of Washington Street
Bridge
Spokane, Washington
1907-1908

Construction of Abutment

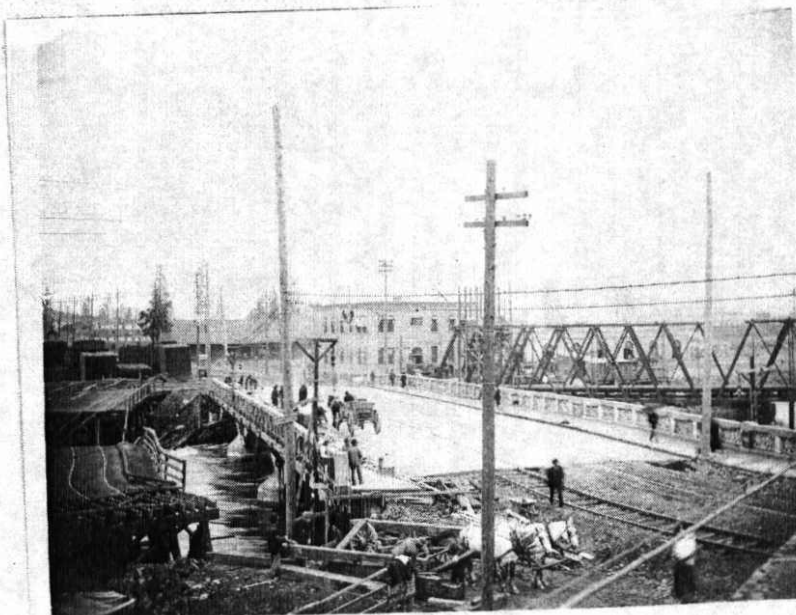
2



Construction of Washington Street
Bridge
Spokane, Washington
1907-1908

Dismantling timber trestle

3



Construction of Washington Street
Bridge
Spokane, Washington
1907-1908

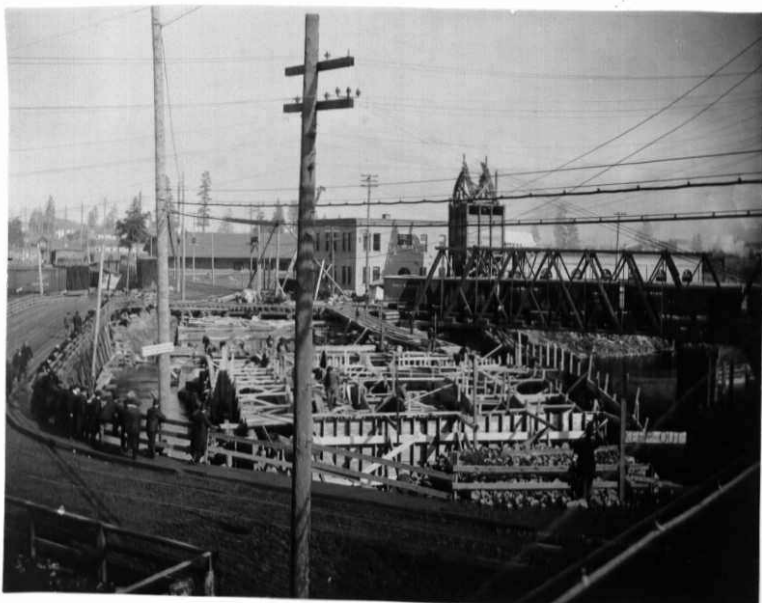
Construction of forms into which the
concrete is poured.

4

Construction of Washington Street
Bridge
Spokane, Washington
1907-1908

5





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4



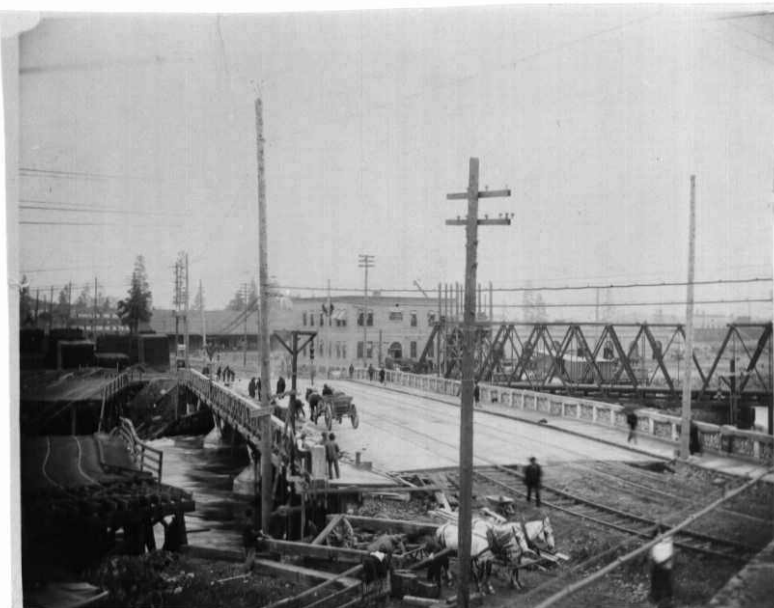
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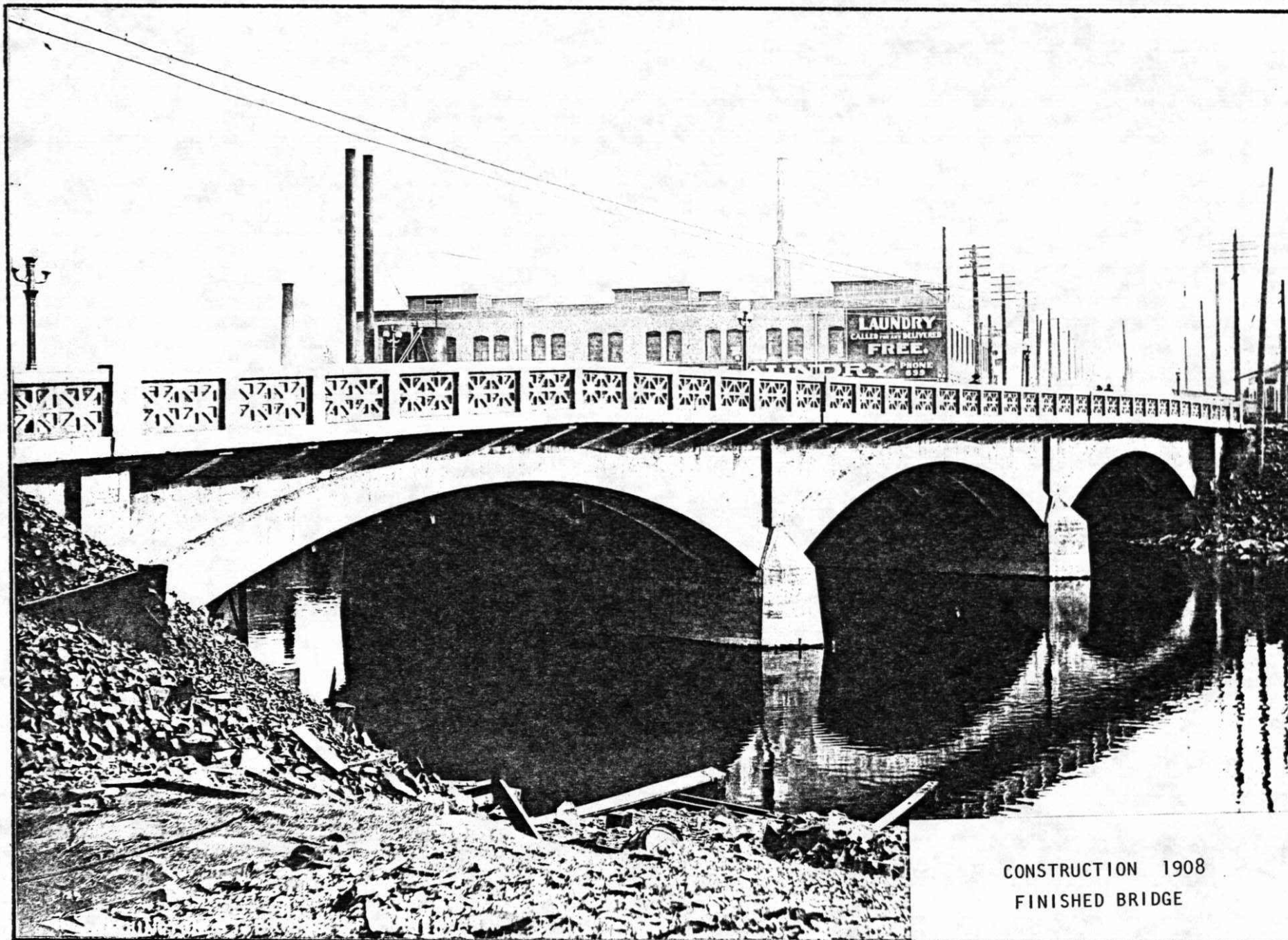
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CONSTRUCTION 1908
FINISHED BRIDGE