

HISTORIC AMERICAN ENGINEERING RECORD

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ARIZ,
7-TEMP,
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Index to Photographs

- Ash Avenue Bridge (Tempe Bridge, Old Tempe Bridge,
Salt River Bridge) HAER No. AZ-29
Spanning Salt River at the foot of Ash Avenue
Tempe
Maricopa County
Arizona
- AZ-29-1 Photocopy of photograph [original print located at Tempe Historical Museum,
Tempe, Arizona]. Photographer unknown, circa 1870s - 1880s
VIEW SHOWING FORD ACROSS SALT RIVER AT SITE OF ASH
AVENUE BRIDGE, LOOKING SOUTHEAST TOWARD TEMPE BUTTE
- AZ-29-2 Photocopy of photograph [original print located at Tempe Historical Museum,
Tempe, Arizona]. Photographer unknown, circa 1900
VIEW OF HAYDEN'S FERRY WITH RAILROAD BRIDGE IN BACK-
GROUND
- AZ-29-3 Photocopy of hand-colored postcard [original postcard located at Arizona
Historical Foundation, Tempe, Arizona]. Photographer unknown, circa 1905
VIEW, LOOKING NORTHEAST FROM TEMPE BUTTE, SHOWING
MARICOPA AND PHOENIX RAILROAD BRIDGE IN THE BACK-
GROUND; PHOENIX AND EASTERN RAILROAD BRIDGE IN FORE-
GROUND. THE ASH AVENUE BRIDGE WOULD BE BUILT MIDWAY
BETWEEN THE RAILROAD BRIDGES IN 1911-1913
- AZ-29-4 Photocopy of photograph [original print located at Arizona Historical Founda-
tion, Tempe, Arizona]. Photographer unknown, circa August 1913
VIEW OF ASH AVENUE BRIDGE NEARING COMPLETION FROM
NORTH APPROACH WITH TEMPE BUTTE IN BACKGROUND. PRE-
CAST CONCRETE POSTS FOR GUARDRAILS ARE SEEN AT LEFT;
ONLY TWO LIGHT STANDARDS ARE IN PLACE
- AZ-29-5 Photocopy of photograph [original print located at Arizona Historical Founda-
tion, Tempe, Arizona]. Photographer unknown, circa 1913
VIEW OF COMPLETED ASH AVENUE BRIDGE FROM NORTH
APPROACH, WITH TEMPE BUTTE IN BACKGROUND

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- AZ-29-6 Photocopy of photograph [original print located at Arizona Photographic Associates, Inc., Phoenix, Arizona]. Photographer: Herb McLaughlin, circa 1965
AERIAL VIEW, LOOKING SOUTHEAST TOWARD TEMPE BUTTE, SHOWING, FROM TOP, MILL AVENUE BRIDGE, ASH AVENUE BRIDGE, AND SOUTHERN PACIFIC RAILROAD BRIDGE
- AZ-29-7 Photocopy of photograph [original print located in collection of William H. Caruthers, Jr., Richmond, Virginia, and loaned by Susan A. Harter, Tempe, Arizona]. Photographer assumed to be William H. Caruthers, Sr., assistant (construction) engineer for the Ash Avenue Bridge, 1912
ORIGINAL PHOTOGRAPH CAPTIONED "STOCKADE-TEMPE BRIDGE EAST [SIC] APPROACH." TEMPE BUTTE IS SEEN AT UPPER RIGHT [Correct identification is "south" approach; view looking east from undetermined elevation position.]
- AZ-29-8 Photocopy of photograph [original print located at Arizona Historical Foundation, Tempe, Arizona] Photographer unknown, circa 1913
VIEW SHOWING ASH AVENUE BRIDGE UNDER CONSTRUCTION, LOOKING FROM SOUTH BANK OF SALT RIVER. CONVICTS ARE COMMENCING WORK ON BALUSTRADE
- AZ-29-9 Photocopy of photograph [original print located in collection of William H. Caruthers, Jr., Richmond, Virginia, and loaned by Susan A. Harter, Tempe, Arizona]. Photographer assumed to be William H. Caruthers, Sr., assistant (construction) engineer for the Ash Avenue Bridge, 1912
VIEW OF ASH AVENUE BRIDGE UNDER CONSTRUCTION, LOOKING NORTH, SHOWING STEEL REINFORCEMENT IN DECK BEFORE PLACEMENT OF CONCRETE
- AZ-29-10 Photocopy of photograph [original print located in collection of William H. Caruthers, Jr., Richmond, Virginia, and loaned by Susan A. Harter, Tempe, Arizona]. Photographer assumed to be William H. Caruthers, Sr., assistant (construction) engineer for the Ash Avenue Bridge, 1912
VIEW, LOOKING NORTH, SHOWING ASH AVENUE BRIDGE UNDER CONSTRUCTION. WORK IS PROGRESSING FROM THE SOUTH BANK TO THE NORTH BANK OF THE SALT RIVER

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- AZ-29-11 Photocopy of photograph [original print located at Tempe Historical Museum, Tempe, Arizona]. Photographer unknown, circa 1912
VIEW OF ASH AVENUE BRIDGE UNDER CONSTRUCTION WITH
CONVICT LABOR; SALT RIVER IN FLOOD STAGE
- AZ-29-12 Photocopy of photograph [original print located at Tempe Historical Museum, Tempe, Arizona]. Photographer unknown, circa 1912
VIEW OF ASH AVENUE BRIDGE FROM NORTH BANK OF SALT
RIVER, LOOKING SOUTHEAST TOWARD TEMPE BUTTE; RIVER IN
FLOOD STATE
- AZ-29-13 Photocopy of photograph [original print located at University Archives, Hayden Library, Arizona State University, Tempe, Arizona]. Photographer unknown, 1902
VIEW OF ASH AVENUE BRIDGE FROM NORTH APPROACH WITH
ARIZONA EASTERN RAILROAD BRIDGE AT UPPER RIGHT
- AZ-29-14 Photocopy of photograph [original print located at University Archives, Hayden Library, Arizona State University, Tempe, Arizona]. Photographer unknown, 1902
VIEW SHOWING TRAIN WRECK ON MARICOPA AND PHOENIX
RAILROAD CAUSED BY BRIDGE FAILURE RESULTING FROM FLOOD
DAMAGE

The following photographs were taken by Michael M. Much, photographer, in August 1990

- AZ-29-15 VIEW OF WEST SIDE OF BRIDGE, SHOWING SAG IN DECK CAUSED
BY SETTLEMENT OF PIER 9
- AZ-29-16 VIEW OF WEST SIDE OF BRIDGE WITH TEMPE BUTTE IN BACK-
GROUND
- AZ-29-17 DETAIL VIEW, LOOKING WEST, SHOWING ARCH RIB FROM PIER TO
PIER, WITH SOUTHERN PACIFIC RAILROAD BRIDGE IN BACK-
GROUND
- AZ-29-18 DETAIL VIEW OF TYPICAL CROWN HINGE AND DECK EXPANSION
JOINT

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- AZ-29-19 VIEW OF UNDERSIDE OF BRIDGE, SHOWING RELATIONSHIP BETWEEN ARCH RIBS AND ARRANGEMENT OF PRECAST RIB STRUTS. MILL AVENUE BRIDGE AND TEMPE BUTTE ARE SEEN IN THE BACKGROUND
- AZ-29-20 DETAIL VIEW OF PIER HINGES, SPANDREL ARCHES, AND DECK OVERHANG SUPPORT BRACKETS
- AZ-29-21 DETAIL VIEW OF NORTH ABUTMENT SPANS WITH END PAIR OF LIGHT STANDARDS. NOTE THE DECORATIVE PANELS CAST INTO THE SPANDREL COLUMN
- AZ-29-22 VIEW OF BRIDGE, LOOKING SOUTHWEST, SHOWING MASSIVE CONCRETE PIERS AND DAMAGED CAUSED BY PIER FAILURE
- AZ-29-23 VIEW LOOKING ACROSS BRIDGE FROM NORTH END
- AZ-29-24 VIEW OF BRIDGE, LOOKING SOUTHEAST, WITH MILL AVENUE BRIDGE AND TEMPE BUTTE IN BACKGROUND
- AZ-29-25 VIEW OF BRIDGE, LOOKING SOUTHWEST, WITH SOUTHERN PACIFIC RAILROAD BRIDGE IN BACKGROUND. THE PAVEMENT OF THE NORTH APPROACH IS SEEN BURIED ON THE RIGHT. ROADWAY (CENTER) CROSSES THE USUALLY DRY CHANNEL OF THE SALT RIVER. A BALUSTRADE OF THE MILL AVENUE BRIDGE IS SEEN AT THE LOWER LEFT CORNER
- AZ-29-26 VIEW SHOWING SOUTH APPROACH TO BRIDGE. THE UPRIGHTS IN THE BACKGROUND SUPPORT ELECTRICAL TRANSMISSION LINES
- AZ-29-27 VIEW OF BRIDGE, LOOKING NORTHWEST, SHOWING DAMAGED BALUSTRADE
- AZ-29-28 VIEW OF BRIDGE, SHOWING DAMAGED SPANDREL POSTS AND EARLY REPAIR WORK

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The following are photocopies of original plans, located at Arizona Department of Transportation, Structures Section, Bridge Maintenance Branch, Phoenix, Arizona. Original sheet titles are used below.

- AZ-29-29 COVER SHEET
Dated 1911-1912
- AZ-29-30 GENERAL LAYOUT [right half of Sheet 1]
Sheet 1 of 14 sheets, dated October 10, 1911
- AZ-29-31 GENERAL LAYOUT [left half of Sheet 1]
Sheet 1 of 14 sheets dated October 10, 1911
- AZ-29-32 SOUTH ABUTMENT
Sheet 2 of 14 sheets dated September 19, 1911
- AZ-29-33 DETAILS, SOUTH ABUTMENT
Sheet 3 of 14 sheets dated September 27, 1911
- AZ-29-34 DETAILS, NORTH ABUTMENT
Sheet 4 of 14 sheets dated November 24, 1911
- AZ-29-35 INTERMEDIATE PIERS
Sheet 5 of 14 sheets dated September 11, 1911
- AZ-29-36 ABUTMENT PIERS
Sheet 6 of 14 sheets dated September 12, 1911
- AZ-29-37 INTERMEDIATE PIERS - PIER NO. 5 AND PIER NO. 6
Sheet 7 of 14 sheets dated September 11, 1911
- AZ-29-38 ABUTMENT PIERS - PIER NO. 7 AND PIER NO. 10
Sheet 8 of 14 sheets dated September 12, 1911
- AZ-29-39 INTERMEDIATE PIERS - PIER NO. 8 AND PIER NO. 9
Sheet 9 of 14 sheets dated September 11, 1911
- AZ-29-40 MAIN ARCH RIBS
Sheet 10 of 14 sheets dated October 21, 1911

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- AZ-29-41 MAIN ARCH RIBS
Sheet 11 of 14 sheets dated October 31, 1911
- AZ-29-42 DETAILS OF SPANDRELS AND BALUSTRADES
Sheet 12 of 14 sheets dated November 28, 1911
- AZ-29-43 TYPICAL FLOOR SLAB AND DETAILS AT CROWN
Sheet 13 of 14 sheets dated December 2, 1911
- AZ-29-44 CONCRETE AND STEEL
Sheet 14 of 14 sheets dated December 1, 1911
- AZ-29-45 REVISED DETAILS
Sheet 15 of 14 sheets dated February 6, 1913
- AZ-29-46 REVISED DETAILS
Sheet 16 of 14 sheets dated March 6, 1913
- AZ-29-47 FORMS FOR SUPERSTRUCTURE
Dated May 4, 1912
- AZ-29-48 FORMS FOR SUPERSTRUCTURE
Dated May 6, 1912
- AZ-29-49 WORK CARRIED ON BY STATE FORCES DURING 1920
Repairs to Tempe Bridge [right half of sheet]
- AZ-29-50 WORK CARRIED ON BY STATE FORCES DURING 1920
Repairs to Tempe Bridge [left half of sheet]