Santa Fe Railroad Water Resources, 1913-1965

AHS-ND.856

Descriptive Summary

Creator: Atchison, Topeka, and Santa Fe Railroad Company.
Collection Name Santa Fe Railroad Water Resources,
Inclusive Dates: 1913-1965
Physical Description 1.5 linear ft.
Abstract Business correspondence, engineering reports regarding water projects, blueprints for water storage facilities, photographs of water and utilities engineering projects.
Collection Number AHS-ND.856
Language English.
Repository Arizona Historical Society/Flagstaff Archives
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Flagstaff, AZ 86011-6022
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Biographical Note

The Atchison, Topeka and Santa Fe Railway Company was founded in Kansas, 1859. Under the leadership of company founder, Cyrus K. Holiday, the rail line was built from Chicago to Los Angeles (completed in 1888) and eventually had spur lines that tapped the cotton and cattle markets in Texas and the Gulf of Mexico. The materials in this collection were collected during the career of George L. Davenport Jr., Atchison, Topeka and Santa Fe Railway Company engineer, and relate to water resources engineering for the Atchison, Topeka and Santa Fe Railway Company, primarily with regard to supplying water to operate steam locomotives along the railway line between New Mexico and California. However, there is also an extensive photographic record, as well as some documentary material (compiled by Davenport) regarding water and utilities projects in Grand Canyon National Park, particularly those at Hermit's Rest, Indian Gardens and Phantom Ranch Arizona.
Scope and Content Note

The collection is approximately 1.5 linear feet, including .25 linear feet of manuscripts, and 1.25 linear feet of photographs. The materials have been left in their original (provenance) order, thus a variety of different types of documents are found in a single folder, including photographs (folder #3), blueprints (folder #5), and published reports (folder #1). However, most of the manuscript materials are correspondence and reports regarding water supply engineering issues along railway lines between New Mexico and California. Much of the text materials are a water supply history written by George L Davenport (the primary creator of the collection) with a particular emphasis on Flagstaff and Winslow, AZ., Needles, CA., and Mohave Desert area of California. The bulk of the photographs show engineering projects conducted in the Grand Canyon during the period, 1920-1949. Other images include water related engineering projects in other areas of Northern Arizona, New Mexico, and California.

Organization

2 Series. I. Correspondence and Reports. II. Photographs

Restrictions

Restrictions

None.

Copyright

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Related Material

Plateau Geoservices Group, NAU Collection #240
Williams Water Works, NAU Collection #17
Flagstaff Water Use and Utilization Commission, NAU Collection #166
Atchison Topeka and Santa Fe Railway Records 1889-1981 (bulk 1889-1930, 1965-1979), at the Special Collections Division, University of Texas at Arlington, Libraries Collection
Arizona Historical Society/Flagstaff, Photographic Collections, AHS #900

Access Points
Corporate Name(s)
   Atchison, Topeka, and Santa Fe Railroad Company--Archives.

Subject(s)
   Water-supply engineering--Arizona.
   Water-supply--Arizona.

Genre Form(s)
   Correspondence.
   Reports.

Administrative Information

Credit Line

Arizona Historical Society/Flagstaff. AHS-ND.856

Container List

Series 1. Correspondence and Reports, 1913, 1921, 1941-43 and 1949-1965
   .25 linear feet. Reports and correspondence related to Atchison Topeka and Santa Fe railroad water supplies and Grand Canyon, Arizona sewage treatment. Included are railroad related sewage treatment projects; water pumping affidavit; Mohave Desert water study; water supply study regarding railroad line between New Mexico and California; and a report on Winslow, Arizona City water supply, as well other watershed areas in the Southwest, 1913-1965 and 1882 [not inclusive]
   
   Box-folder
   1.1 Report on Development of Water Supplies on Atchison Topeka and Santa Fe Railroad Company; job application letters of George L. Davenport for position of Senior Civil Engineer position, 1913; Report, The Use of Reclaimed Sewage Water at Grand Canyon, Arizona, May 4, 1938; Publication, Reduction of Mineral Content in Water with Organic Zeolites, 1943; Sketch of pile bridge at Houcks Ranch AandPP RR Arizona Territory, June 5, 1882; and related materials1913-1949 and 1882 [not inclusive],
   
   Box-folder
   1.2 Affidavit concerning water use prior to June 25, 1929 by Atchinson, Topeka and Santa Fe Railway Company; water production report for Needles, California , 1925 and 1965
   
   Box-folder
   1.3 Field reconnaissance report by George L. Davenport of two potential railway routes across the Mohave Desert, photographs [AHS.PH.0856.00001-12] and map of area
included in report, July 25, 1955

Box-folder
1.4 Handwritten manuscript of water related history of the Atchison Topeka and Santa Fe Railway Company for the area between Albuquerque, New Mexico and Barstow, California, by George L. Davenport, January 27, 1958

Box-folder

Box-folder

Box-folder
1.7 Report entitled, "Development of Water Supplies on the Atchison Topeka and Santa Fe Railway Company" (Coast Lines); handwritten manuscript of water development history on the Atchison Topeka and Santa Fe railway line from Kansas to California, by George L. Davenport, ca. 1955

Series 2. Photographs, 1916-1949

304 photographs. Photographs depicting engineering projects from New Mexico to California, the bulk being of Grand Canyon, Arizona projects

Box-folder
AHS.PH.0856.00001- Photographs within a field reconnaissance report, by George L. Davenport, regarding two potential railway routes across the Mohave Desert; (12) photographs [AHS.PH.0856.00001-12] interspersed within the text. Photographs depict Johnson and Lucerne Valley, Mojave river valley, Joshua Tree and Twentynine Palms, California, with ranch and desert views, 1955

Box-folder
AHS.PH.0856.00013 Flagstaff, Arizona, inner basin of San Francisco Peaks, May 1931

Box-folder
AHS.PH.0856.00014 Walker Lake, San Francisco Peaks, AZ., September 1924

Box-folder
AHS.PH.0856.00015 Schultz Pass, San Francisco Peaks, AZ., February 1924

Box-folder
AHS.PH.0856.00016 Pages' fish hatchery, Verde Valley, AZ., May 1931
AHS.PH.0856.00017  Stoneman Lake, AZ. , May 1931
Box-folder
AHS.PH.0856.00018  Lake Mary reservoir (reservoir), AZ. , May 1931
Box-folder
AHS.PH.0856.00019  Morman Lake, AZ. , May 1931
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AHS.PH.0856.00020  Montezuma's Well, Arizona , May 1931
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AHS.PH.0856.00021  Schultz Pass, San Francisco Peaks, AZ. , February 1924
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AHS.PH.0856.00022  Proposed dam site, Flagstaff, AZ. , July 7, 1921
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AHS.PH.0856.00023  Proposed reservoir site, Flagstaff, AZ. , July 15, 1921
Box-folder
AHS.PH.0856.00024  Proposed dam site, Flagstaff, AZ., South of Fort ValleyJuly 15, 1921,
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AHS.PH.0856.00025  Proposed San Francisco Peaks dam site, Flagstaff, AZ.August 1924,
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AHS.PH.0856.00026  Walker Lake and San Francisco Peaks, AZ. , August 1924
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AHS.PH.0856.00027  Walker Lake, AZ. , August 1924
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AHS.PH.0856.00028  San Francisco Peaks, Inner Basin, AZ. , May 1931
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AHS.PH.0856.00029  San Francisco Peaks, Inner Basin, AZ. , May 1931
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AHS.PH.0856.00030  San Francisco Peaks, Inner Basin, AZ. , May 1931
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AHS.PH.0856.00031  San Francisco Peaks, Inner Basin, AZ. , May 1931
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AHS.PH.0856.00032  Morman Lake, AZ. , May 1931
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AHS.PH.0856.00033  Ferry Point, CA. , January 1932
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AHS.PH.0856.00034  Ferry Point, CA. , January 1932
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AHS.PH.0856.00035  Ferry Point, CA. , March 13, 1926
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AHS.PH.0856.00036  Train Shed at Ferry Point, CA. , March 13, 1926
Box-folder
AHS.PH.0856.00037  Crater Lake, Flagstaff, AZ. , August 1924

http://www.azarchivesonline.org/xtf/view?docId=ead/nau/AHS856.xml&doc.view=print;chunk.id=0
Box-folder
AHS.PH.0856.00038  Train Shed, Ferry Point, CA. , March 13, 1926
Box-folder
AHS.PH.0856.00039  Ferry Point, CA., hill south of Garrard Blvd. , n.d.
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AHS.PH.0856.00040  Ferry Point, CA. , March 13, 1926
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AHS.PH.0856.00041  Ferry Point, CA. , March 13, 1926
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AHS.PH.0856.00042  Ferry Point, CA., along brick spur , March 13, 1926
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AHS.PH.0856.00043  Ferry Point, CA. , March 13, 1926
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AHS.PH.0856.00044  Ferry Point, CA. , 1921
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AHS.PH.0856.00045  Ferry Point, CA. , 1921
Box-folder
AHS.PH.0856.00046  Man in business suit and hat, possibly George L. Davenport, Williams, AZ. , August 3, 1935
Box-folder
AHS.PH.0856.00047  Desert View point, Grand Canyon, AZ., eastward view , June 1940
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AHS.PH.0856.00048  Gallup, NM., buggy and electric wires on main street , ca. 1910
Box-folder
AHS.PH.0856.00049  Phantom Ranch, Grand Canyon, AZ., swimming pool , 1941
Box-folder
AHS.PH.0856.00050  Mr. Boschke, Mr. Owens, and Mr. Younger at Zuni, NM. , June 22, 1923
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AHS.PH.0856.00051  George L. Davenport III at Grand Canyon, AZ. looking through spotting scope , September 1941
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AHS.PH.0856.00052  Bright Angel Creek, Grand Canyon, AZ. , September 1941
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AHS.PH.0856.00053  George L. Davenport, Mr. Carroll and Mr. Nelson on Mules at Yaki Point, Grand Canyon, AZ. , September 1941
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AHS.PH.0856.00054  Deer at Indian Gardens, Grand Canyon, AZ. , January 1946
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AHS.PH.0856.00055  Phantom Ranch, Grand Canyon, AZ. , September 1941
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AHS.PH.0856.00056  Phantom Ranch, Grand Canyon, AZ., buck deer , September 1941
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AHS.PH.0856.00057  Ferry Point, CA., ca. 1928
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AHS.PH.0856.00058  Boiler house, 1928
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AHS.PH.0856.00059  Flagstaff, AZ. reservoir, 50 million gallon water storage capacity, ca. 1924
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AHS.PH.0856.00060  Crater Lake, AZ., August 1924
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AHS.PH.0856.00061  San Francisco Peaks, February 1924
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AHS.PH.0856.00063  Lake Mary reservoir, AZ., August 1939
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AHS.PH.0856.00065  Lake Mary reservoir, AZ., August 1939
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AHS.PH.0856.00066  Lake Mary reservoir, AZ., August 1939
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AHS.PH.0856.00067  Lake Mary reservoir, AZ., August 1939
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AHS.PH.0856.00068  Railroad depot, Flagstaff, AZ., February 1939
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AHS.PH.0856.00069  Flagstaff, AZ., water reservoir, February 1924
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AHS.PH.0856.00070  Franconia, AZ., n.d.
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AHS.PH.0856.00071  Zeolite plant, Ferry Point, CA., January 24, 1932
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AHS.PH.0856.00072  Zeolite plant, Ferry Point, CA., January 24, 1932
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AHS.PH.0856.00073  Ferry Point, CA., commercial wharf, March 13, 1926
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AHS.PH.0856.00074  Ferry Point, CA., commercial wharf, 1921
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AHS.PH.0856.00075  Fenner, CA., water facilities, April 5, 1916
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AHS.PH.0856.00076  Fenner, CA., water facilities, April 5, 1916
Box-folder
AHS.PH.0856.00077  Fenner, CA., centrifugal pump, July 18, 1918
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AHS.PH.0856.00078  Fenner, CA., 100 hp. semi-diesel engine, July 18, 1918
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AHS.PH.0856.00079  Fenner, CA., Laidlaw compressor, July 18, 1918
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AHS.PH.0856.00080  Hose reel cart with locomotive in background, 1949
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AHS.PH.0856.00081  Coal Chute, Gallup, NM., January 6, 1920
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AHS.PH.0856.00082  Gallup, NM., engine air compressor, August 31, 1916
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AHS.PH.0856.00084  Gallup, NM., compressor, August 31, 1916
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AHS.PH.0856.00085  Gallup, NM., compressor, August 31, 1916
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AHS.PH.0856.00086  Gallup, NM., Well #1, 1917
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AHS.PH.0856.00087  Gallup, NM., powerhouse, 1918
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AHS.PH.0856.00089  Gallup, NM., water tanks and train depot, n.d.
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AHS.PH.0856.00090  Gallup, NM., town Imhoff tank, May 1938
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AHS.PH.0856.00091  Gallup, NM., Link Belt Clarifier, November 1939
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AHS.PH.0856.00092  Gallup, NM., treating house, November 1939
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AHS.PH.0856.00093  Gallup, NM., Spaulding Precipitator, November 1939
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AHS.PH.0856.00094  Gallup, NM., city well east of town, July 1939
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AHS.PH.0856.00095  Gallup, NM., new oil facility, June 1945
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AHS.PH.0856.00097  Gallup, NM., new oil facility, June 1945
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AHS.PH.0856.00116  Glendora, CA., treating tank close up showing various wear factors [technical photograph], August 23, 1918
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AHS.PH.0856.00118  Glendora, CA., treating tank close up showing various wear factors [technical photograph], August 23, 1918
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AHS.PH.0856.00119  Glendora, CA., treating tank close up showing various wear factors [technical photograph], August 23, 1918
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AHS.PH.0856.00120  Grand Canyon, AZ., power house, May 1938
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AHS.PH.0856.00123  Grand Canyon, AZ., canyon view to the north, May 1938
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AHS.PH.0856.00124  Grand Canyon, AZ., electric cable running to Indian Gardens, June 1932
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AHS.PH.0856.00126  Grand Canyon, AZ., laying cable for Indian Gardens pumping plant, 1932
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AHS.PH.0856.00127  Grand Canyon, AZ., tramway for Indian Gardens pipeline, 1932
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AHS.PH.0856.00128  Grand Canyon, AZ., Ribbon Falls, February 1926
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AHS.PH.0856.00129  Grand Canyon, AZ., electric cable, June 1932
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AHS.PH.0856.00130  Grand Canyon, AZ., Pipe Creek Canyon, September 1923
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AHS.PH.0856.00131  Grand Canyon, AZ., generator and turbine house U.P. company, Bright Angel Canyon, May 1928
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AHS.PH.0856.00144  Grand Canyon, AZ., incinerator, n.d.
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AHS.PH.0856.00145  Grand Canyon, AZ., refrigeration plant, interior tank room, n.d.
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AHS.PH.0856.00148  Grand Canyon, AZ., pump house, n.d.
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AHS.PH.0856.00149  Grand Canyon, AZ., installing water tank, July 1939
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AHS.PH.0856.00157  Grand Canyon, AZ., Hermit Camp, Pima Point, Grand Canyon, AZ., aerial tramway; view from canyon to rim, May 1926
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AHS.PH.0856.00158  Grand Canyon, AZ., Permutit Zeolite Plant September 1932,
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Box-folder
AHS.PH.0856.00235  Grand Canyon, AZ., wood recovery tramway; carrier and hoist, March 1931

Box-folder
AHS.PH.0856.00236  Grand Canyon, AZ., wood recovery tramway, engine and carrier, March 1931

Box-folder
AHS.PH.0856.00237  Grand Canyon, AZ., wood recovery tramway, March 1931

Box-folder
AHS.PH.0856.00238  Grand Canyon, AZ., "Hopi Home", February 1926

Box-folder
AHS.PH.0856.00239  Grand Canyon, AZ., Bright Angel Creek, September 1923

Box-folder
AHS.PH.0856.00240  Grand Canyon, AZ., Four engineers near Ribbon Falls, ca. 1925

Box-folder
AHS.PH.0856.00241  Grand Canyon, AZ., Buffalo herd at Homestead Valley, May 1928

Box-folder
AHS.PH.0856.00242  Grand Canyon, AZ., pouring concrete for Indian Gardens reservoir, April 4, 1932

Box-folder
AHS.PH.0856.00243  Grand Canyon, AZ., suspension bridge (Kaibab?), September 1923

Box-folder
AHS.PH.0856.00244  Grand Canyon, AZ., water near Ribbon Falls, n.d.

Box-folder
AHS.PH.0856.00245  Grand Canyon, AZ., old suspension bridge, September 1923 (1929?)
AHS.PH.0856.00246  Grand Canyon, AZ., Indian Gardens stone building, September 1923
Box-folder
AHS.PH.0856.00247  Grand Canyon, AZ., Ribbon Falls, February 1926
Box-folder
AHS.PH.0856.00248  Grand Canyon, AZ., block and tackle with two men laying cable into canyon, 1932
Box-folder
AHS.PH.0856.00249  Grand Canyon, AZ., site of Pumpkin House, Indian Gardens, April 1931
Box-folder
AHS.PH.0856.00250  Grand Canyon, AZ., north end of Indian Gardens, site of proposed dam, April 1931
Box-folder
AHS.PH.0856.00251  Grand Canyon, AZ., view towards site of Pumpkin House, Indian Gardens, April 1931
Box-folder
AHS.PH.0856.00252  Grand Canyon, AZ., view from tower #2 towards tower #3 along trench line into canyon, n.d.
Box-folder
AHS.PH.0856.00253  Grand Canyon, AZ., two men hold 4" line at Indian Gardens, n.d.
Box-folder
AHS.PH.0856.00254  Grand Canyon, AZ., "cross-cut" at Indian Gardens, west spring, January 7, 1927
Box-folder
AHS.PH.0856.00255  Grand Canyon, AZ., "cross-cut" at Indian Gardens, west spring, January 7, 1927
Box-folder
AHS.PH.0856.00256  Grand Canyon, AZ., rock and earth dyke 1/4 mile north of Phantom Ranch, January 1946
Box-folder
AHS.PH.0856.00257  Grand Canyon, AZ., Cottonwood Camp, Bright Angel trail, February 1926
Box-folder
AHS.PH.0856.00258  Grand Canyon, AZ., looking north from Indian Gardens, January 1946
Box-folder
AHS.PH.0856.00259  Grand Canyon, AZ., Phantom Ranch, with pipeline, November 1929
Box-folder
AHS.PH.0856.00260  Grand Canyon, AZ., site of Harvey corral on North Rim, tents in the foreground, May 1928
Box-folder
AHS.PH.0856.00261  Grand Canyon, AZ., open building with fireplace and smokestack (warming house?), n.d.
Box-folder
AHS.PH.0856.00262  Grand Canyon, AZ., open building with fireplace and smokestack (warming house?), n.d.
Box-folder
AHS.PH.0856.00263 Grand Canyon, AZ., U.P. generator house, Bright Angel Creek; mule team in foreground, May 1928

Box-folder
AHS.PH.0856.00264 Grand Canyon, AZ., Ribbon Falls with three people in foreground, May 1928

Box-folder
AHS.PH.0856.00265 Grand Canyon, AZ., tunnel at east springs, Indian Gardens, January 7, 1927

Box-folder
AHS.PH.0856.00266 Grand Canyon, AZ., women's dormitory, February 1947

Box-folder
AHS.PH.0856.00267 Grand Canyon, AZ., incinerator, 1947

Box-folder
AHS.PH.0856.00268 Grand Canyon, AZ., Indian Gardens pipeline, March 1932

Box-folder
AHS.PH.0856.00269 Grand Canyon, AZ., Indian Gardens, February 1926

Box-folder
AHS.PH.0856.00269- Grand Canyon, AZ., McGary Coach Hydrant, with two men standing nearby, June 1949

Box-folder
AHS.PH.0856.00270 Grand Canyon, AZ., pipeline and electric cable at top of redwall limestone formation, 1949

Box-folder
AHS.PH.0856.00271 Grand Canyon, AZ., power station (house), June 1949

Box-folder
AHS.PH.0856.00272 Grand Canyon, AZ., incinerator, 1949

Box-folder
AHS.PH.0856.00273 Grand Canyon, AZ., trash burner, June 1949

Box-folder
AHS.PH.0856.00274 Grand Canyon, AZ., Bright Angel Creek, June 6, 1949

Box-folder
AHS.PH.0856.00275 Grand Canyon, AZ., Bright Angel Creek, June 6, 1949

Box-folder
AHS.PH.0856.00276 Grand Canyon, AZ., rest house halfway down Hermit Trail; Santa Maria Springs, February 1924

Box-folder
AHS.PH.0856.00277 Grand Canyon, AZ., Colorado River at Hermit Creek, February 1924

Box-folder
AHS.PH.0856.00278 Grand Canyon, AZ., Phantom Ranch sewage line, November 1929

Box-folder
AHS.PH.0856.00279 Grand Canyon, AZ., Phantom Ranch, mule train delivering wood planks, November 1929
Box-folder
AHS.PH.0856.00280  Grand Canyon, AZ., Phantom Ranch, mule train delivering wood planks , November 1929

Box-folder
AHS.PH.0856.00281  Grand Canyon, AZ., sewage disposal plant , 1926
Box-folder
AHS.PH.0856.00282  Grand Canyon, AZ., sewage disposal plant , 1926
Box-folder
AHS.PH.0856.00283  Grand Canyon, AZ., sewage disposal plant , 1926
Box-folder
AHS.PH.0856.00284  Grand Canyon, AZ., sewage disposal plant; final effluent lagoons , June 1926

Box-folder
AHS.PH.0856.00285  Grand Canyon, AZ., hot water tank at incinerator , June 1949
Box-folder
AHS.PH.0856.00286  Grand Canyon, AZ., train tracks, power house, east ward view , August 1926

Box-folder
AHS.PH.0856.00287  Holbrook, AZ., sewage disposal, door mechanism , May 1938
Box-folder
AHS.PH.0856.00288  Holbrook, AZ., disposal tank , May 1938
Box-folder
AHS.PH.0856.00289  Kingman, AZ., County Hospital cooling tower , July 1939
Box-folder
AHS.PH.0856.00290  Kingman, AZ., County Hospital cooling tower , July 1939
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AHS.PH.0856.00291  Kingman, AZ., County Hospital , July 1939
Box-folder
AHS.PH.0856.00292  Kingman, AZ., County Hospital, 8 cylinder freon compressor , July 1939
Box-folder
AHS.PH.0856.00293  Kingman, AZ., Katherine Mine , June 1, 1923
Box-folder
AHS.PH.0856.00294  Kingman, AZ., Katherine Mine, 200hp pneumatic tool engine , June 1, 1923

Box-folder
AHS.PH.0856.00295  Kingman, AZ., Dorr-Imhoff tank , March 1935
Box-folder
AHS.PH.0856.00296  Kingman, AZ., railroad station, water tower , July 1938
Box-folder
AHS.PH.0856.00297  Marmon (dam?) concrete slabs being poured for dam; mule drawn concrete mixer , October 10, 1920
AHS.PH.0856.00298  O'Neil Springs pump house, Flagstaff, AZ. , September 1930
Box-folder
AHS.PH.0856.00299  Oak Creek Lodge, AZ. , September 1930
Box-folder
AHS.PH.0856.00300  State fish hatchery, Oak Creek Canyon, AZ. , September 1930
Box-folder
AHS.PH.0856.00301  Oak Creek Canyon, AZ. , September 1930
Box-folder
AHS.PH.0856.00302  Harry Paine, A.L. Dopmeyer, general car foreman T.C. Gingrich, Needles, California , December 1948
Box-folder
AHS.PH.0856.00303  Cableway with towers, Nome, Alaska (postcard) , February 12, 1911
Box-folder
AHS.PH.0856.00304  Lumber company cableway with man sitting on moving log , n.d.