

Guide to the William R. Hutton Papers

NMAH.AC.0987 Lindsay Osmun.

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Archives Center, National Museum of American History P.O. Box 37012
Suite 1100, MRC 601

Washington, D.C. 20013-7012

Business Number: Phone: 202-633-3270

Fax Number: Fax: 202-786-2453

archivescenter@si.edu

https://americanhistory.si.edu/archives

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Collection Overview

Repository: Archives Center, National Museum of American History

Title: William R. Hutton Papers

Date: 1830-1965

Identifier: NMAH.AC.0987

Creator: Hutton, William R., 1826-1901

Extent: 30 Cubic feet (33 boxes, 21 oversize folders)

Language: Collection is in English. Some materials are in Dutch, French, German,

Italian, and Spanish.

Summary: The papers document the life and work of William R. Hutton, a civil engineer

during the late 1800s to the early 1900s. Materials include diaries, notebooks,

correspondence, letterpress copy book, printed materials, publications, specifications, photographs, drawings, and maps that document the construction of several architectural and engineering projects during this period. Most notable are the records containing information related to the construction of the Chesapeake and Ohio Canal, Hudson River Tunnel, the Washington Aqueduct, the Kanawha River Canal, and the Washington/ Harlem River Bridge. There are also several records about railroads in the state of Maryland, the District of Columbia and elsewhere, including the Western Maryland Railroad, Baltimore and Ohio Railroad, Colorado Midlands

Railway, Baltimore and Drum Point Railroad, the Northern Adirondack Railroad, and the Pittsfield and Williamstown Railroad. The records can be used to track the progression of these projects, and engineering innovation

during the late 1800s to the early 1900s.

Administrative Information

Acquisition Information

The collection was donated by Mr. and Mrs. James J. Madine, a relative of Hutton's and last owners of the Woodlands estate; the Department of Forests and Parks, Maryland; Louis Fischer; and Mr. and Mrs. Mayo S. Stuntz, 1965-1966, 1974.

Provenance

The William R. Hutton papers were initially deposited at the Division of Mechanical and Civil Engineering, now known as the Division of Work and Industry, National Museum of American History in June and September, 1965 and January, April, and May, 1966 and March 1974. They were acquired from four donor sources: Mr. and Mrs. James J. Madine, a relative of Hutton's and last owners of the Woodlands estate, the Department of Forests and Parks, Maryland, Louis Fischer, and Mr. and Mrs. Mayo S. Stuntz. The condition of the papers upon acquisition is noted in the source file. Papers from the Woodlands estate were said to have been located "all over the floor in complete disarray" accounting for the often damaged condition of many of the records. There was also some doubt expressed about the legitimacy

of Fischer's ownership of the papers, as the Woodlands estate was missing both doors and window frames and was therefore not secure. Parts of the collection may have also been auctioned off (possibly by the Madines) prior to their donation.

Papers relating to the Chesapeake and Ohio Canal, Woodlands, Guard Lock and Aqueduct at Seneca, Baltimore and Ohio Railroad were donated to the Montgomery County Historical Society in May, 1965.

Correspondence, drawings, and a proposal for a screw steam canal boat were loaned to the U.S. National Park Service in May 1970.

The collection was transferred to the Archives Center from Division of Work and Industry, 2006.

Related Materials

Materials in the Archives Center

The Montgomery C. Meigs Papers, 1870-1890, (AC0987). Contains materials relating to the construction of the Washington Aqueduct including a book of drawings illustrating reservoirs, tunnels, culverts, and other structural elements, a Government Senate Document relating to construction progress, scrapbooks created by Meigs that include newspaper clippings about the Washington Aqueduct project, water supply, engineering projects, building construction, architecture and other subjects. Collection is currently unprocessed, but is available for research.

Materials in Other Organizations:

The William Rich Hutton Papers, 1840-1961, are located at the Huntington Library in California (see http://catalog.huntington.org).

The collection contains 95 drawings, 13 letters, and 39 facsimile copies of letters and manuscripts. The illustrative material includes both watercolor and pencil drawings of California (including Los Angeles, Monterey, San Francisco, the New Almaden Quicksilver Mine, and the California missions), Baja California, Mexico, and Peru. There are also five pieces in the collection related to the author María Amparo Ruiz de Burton. In 1942, the Huntington Library published *Glances at California 1847--853: Diaries and Letters of William Rich Hutton, Surveyor* and *California 1847--852: Drawings by William Rich Hutton*.

The Hutton family papers are located at the Montgomery County Historical Society, Sween Library (see http://www.montgomeryhistory.org/sites/default/files/Family_Files.pdf).

The collection contains account books from the Woodlands estate, recipe books, livestock records, records of Mary Augusta Hutton (wife), Mary and Rose Hutton (daughters), newspaper clippings (including his obituary), correspondence, record books, deeds, bills and receipts, engineering papers, religious momentos (funeral service cards), and insurance papers.

Processing Information

Processed by Lindsay Osmun (intern), June-August, 2011; supervised by Alison Oswald, archivist.

Preferred Citation

William R. Hutton Papers, dates, Archives Center, National Museum of American History

Restrictions

Collection is open for research but is stored off-site and special arrangements must be made to work with it. Contact the Archives Center for information at archivescenter@si.edu or 202-633-3270.

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Biographical / Historical

Not much is known about the history of William Rich Hutton outside of his role in architectural and engineering projects of the late 1800s and early 1900s. In many cases, he is spoken of only in reference to his projects, and the short biographies that have been written read more like a resume than a life story. Because of this lack of information, this note will focus on Hutton's professional accomplishments, but will attempt to make some comments on his personal life.

William Rich Hutton was born on March 21, 1826 in Washington, D.C., the eldest son of James Hutton (died 1843) and his wife, the former Salome Rich (1). He was educated at the Western Academy (Washington, D.C.) from 1837-1840 under George J. Abbot and then at Benjamin Hallowell's School in Alexandria, Virginia, where he received special training in mathematics, drawing, and surveying (2). Hutton began his professional career in California when he, along with his younger brother James, accompanied their uncle William Rich to work for the United States Army. His uncle was a paymaster for the army and Hutton became his clerk. They traveled around the new state paying the various platoons stationed there, but Hutton also occupied his time by drawing the landscapes and structures he saw in the settlements of Los Angeles, San Francisco, La Paz, Mazatlan, Santa Barbara, Monterey, San Pedro, San Diego, and Cape San Lucas (3). These drawings are now held by the Huntington Library in San Marino, California. Hutton held the position of clerk until the spring of 1849, and in July of that year he began working with Lieutenant Edward O.C. Ord and completed the first survey of Los Angeles and its surrounding pueblo lands and islands. Hutton continued surveying in California from 1850-1851. He was hired by William G. Dana to survey the Nipomo Ranch in San Luis Obispo County and also surveyed the ranches Santa Manuela and Huer-Huero, both owned by Francis Z. Branch. After his employment with Dana, he became the county surveyor for San Luis Obispo County, where he prepared the first survey and map of the region. He also continued to survey ranches for Captain John Wilson during this time. In August 1851, he resigned from his position as county surveyor and moved to Monterey where he worked as an assistant to Captain (later General) Henry W. Hallack, superintendent of the New Almaden Quicksilver Mine in Santa Clara County (4). He remained in this position until March, 1853 when he returned to Washington, D.C. by way of Mexico (5).

Hutton began his career as a civil engineer in Washington, D.C. He was first assigned to the position of assistant engineer on a survey of the projected Metropolitan Railroad in 1853, which was chartered to connect Washington, D.C. with the mainline of the Baltimore and Ohio Railroad. In 1855 he began his professional relationship with Montgomery C. Meigs when he was appointed to the position of assistant engineer on the Washington Aqueduct. He also served as division engineer on this project until construction was shut down in 1861 because of the outbreak of the Civil War. Fortunately for Hutton, the construction on the Aqueduct was resumed in 1862, and when Congress transferred the supervision of the aqueduct project from the War Department to the Department of the Interior, Hutton was made chief engineer. By the end of the Civil War, Hutton's reputation as a civil engineer was established (6).

During this decade Hutton also served as the chief engineer for the Annapolis Water Works (1866) and as chief engineer for one of his most famous projects, the Chesapeake and Ohio Canal (1869-1871). Although some historians minimize Hutton as just one of many engineers to work on the Chesapeake and Ohio Canal, he did make one major contribution to its construction: the Georgetown Canal Incline. Perhaps the final effort of the Chesapeake and Ohio Canal company to compete with the emerging and fast expanding railroad, the Georgetown Incline was designed to allow canal boats to travel through the canal with low water levels and to alleviate canal congestion. Unfortunately, by the time the incline was completed use of the canal had decreased so significantly that it was no longer needed to help control traffic (7). Despite this, Hutton continued to work as a consulting engineer for the Chesapeake and Ohio Canal Company until 1881, when he was let go because of the dwindling fortunes of the company (7).

In the 1870s and 1880s Hutton was busy with several engineering projects. During 1871-1873, he was the chief engineer in the completion of the Western Maryland Railroad to Hagerstown and Williamsport (9). He also practiced as an architect with his brother, the prominent Baltimore architect Nathanial Henry Hutton, during the years 1873-1880. He relocated to New York in 1880, serving as chief engineer for the Washington Bridge in 1888 and 1889

and the Hudson River Tunnel from 1889 to 1891. In 1886, he became the consulting engineer for the New Croton Aqueduct and served in the same position for the Colorado Midland Railway between the years of 1886-1889 (10).

As his personal and professional correspondence shows, Hutton continued to work on various engineering and architectural projects until his death on December 11, 1901. In addition to these projects, he also invented the innovative system of locks and moveable dams used in the Kanawha River Canal. He was awarded the Diplome d'Honneur for this featat the Paris Exposition in 1878 (11). His correspondence also demonstrates how Hutton was respected within his professional community. These letters refer to the accuracy of his work, his willingness to help other colleagues and supply them with reference materials and information, and, in addition to all this, his politeness. It seems that these qualities defined not only his personality but also his ideology. In one of the cashbooks in the collection, dated 1899, a hand written note contains a religious parable of "The Straw." The phrase in this parable that speaks most to Hutton's work ethic, and to the spirit of inventors everywhere, is this: "Even so however lowly may be the act, however little opportunities we may have of assisting others, we may still do something. Let us beg to fulfil our duty in this regards by making ourselves useful to others by some little act of thoughtful charity..." (12). Hutton, in his dedication to civil engineering, seems to have lived up to this virtue, and in his work he changed the landscape of Washington, D.C. and New York.

The Fairy Godfather: Hutton's Personal History

His professional records reveal a man who was fiercely dedicated to his work. His obituary references his professional life more than his personal life (13). Despite his reputation in the professional engineering community, his personal records demonstrate that Hutton was also dedicated to his family and children. In 1855, he married Montgomery County native Mary Augusta Clopper (died 1915). Together they lived on her family's estate known as the Woodlands, and had five children: Frank C. Hutton, Mary Hutton, Elizabeth Hutton (later Caulfield), Rosa Hutton, and Annie Salome Hutton (14). It is at this estate that Hutton died and was buried. The personal letters to his wife found in the Woodlands Collection held at the Montgomery County Historical Society show a man in love and willing to take time from his work to write to his wife. His letters to his children show a similar interest and compassion. In the many letters found in this collection from his daughter Elizabeth (Bessie) one can see a father who is interested in not only his daughter's activities abroad, but also in her opinion. This interest also extends to his son Frank Hutton, as their correspondence shows Hutton offering his son advice on his own engineering projects.

Hutton also served as executor to many of his extended family's estates. Many letters show the conflicts that Hutton had to mediate and the dependence of his cousins on him for advice and money. Although his family was wealthy (his cousin was Benjamin H. Hutton whose daughters married into the court of Napoleon III), they were volatile, and his records seem to indicate that he served as a mediator for many of their disputes. In addition to this, as his nickname of Fairy Godfather suggests, Hutton was always willing to lend his family either financial or moral support when needed. Unfortunately, little other documentation concerning Hutton's personal life exists outside of this collection and the one held at the Montgomery County Historical Society.

References:

- 1. Waters, Willard O., "Introduction," California 1847-1852 (San Marino: The Huntington Library, 1942).
- 2. Waters, Willard O., "Memoir," Glances at California 1847-1853 (San Marino: The Huntington Library, 1942): ix.
- 3. Waters, Willard O., "Introduction," *California 1847-1852* (San Marino: The Huntington Library, 1942). and Waters, Willard O., "Memoir," *Glances at California 1847-1853* (San Marino: The Huntington Library, 1942): x-xi.
- 4. Waters, Willard O., "Introduction," California 1847-1852 (San Marino: The Huntington Library, 1942).
- 5. Waters, Willard O., "Memoir," Glances at California 1847-1853 (San Marino: The Huntington Library, 1942): xvii.
- 6. Waters, Willard O., "Memoir," *Glances at California 1847-1853* (San Marino: The Huntington Library, 1942): xvii-xviii.
- 7. Skramstad, Harold, "The Georgetown Canal Incline," Technology and Culture, Vol. 10, no. 4 (Oct. 1969): 555.
- 8. Business Correspondence, Chesapeake and Ohio Canal, 22 February 1881, William R. Hutton Papers, 1830-1965, Archives Center, National Museum of American History, Smithsonian Institution, box number 27, folder number 29.

- 9. "William Rich Hutton," The Club: A Journal of Club Life for Men and Women, (July 1894):37
- 10. Ibid.
- 11. Monzione, Joseph, "William R. Hutton," A.P.W.A. Reporter (Sept. 1977): 7.
- 12. Cashbook, 1899, William R. Hutton Papers, 1830-1965, Archives Center, National Museum of American History, Smithsonian Institution, box number 23, folder number 5.
- 13. The Woodlands Collection, Montgomery County Historical Society.

Scope and Contents

These papers document William R. Hutton's professional career as a civil engineer and his personal affairs. Although the personal materials in the collection provide insight into a man and a family that have been largely forgotten by biographers, it is the professional materials that are perhaps the most interesting to researchers. They provide a compelling narrative of the push to the West that occurred in 19th century America and the internal improvements movement typified by the American System plan proposed by Henry Clay. Perhaps best remembered for the high tariffs that accompanied it, the American System plan was also concerned with the advancement of internal improvements, such as canals, that would unite the East and West in communication, travel, and trade. The Chesapeake and Ohio Canal can be seen as one of the products of this movement (1) and was in fact initially heralded as the first great work of national improvement (2).

The papers in this collection that are related to the construction and maintenance of the Chesapeake and Ohio Canal are an invaluable documentation of efforts during this turbulent time to unite the eastern and western United States. They provide details of the canal from its initial construction to its decline with the incline at Georgetown project. The canal also serves as an example, or perhaps a warning against, federal involvement in state improvement efforts as it was the first project to be directly funded and staffed by the federal government (3). The groundbreaking ceremony was attended by then President John Quincy Adams whose toast, "to the canal: perseverance," (4) became an ironic omen, as construction of the canal took over twenty-two years to be completed. The Chesapeake and Ohio Canal materials can be used as a case study for the problems encountered during canal building (5). These problems are best typified in the collection by the papers relating to the Georgetown incline. This project was headed by Hutton and was plagued with construction problems, boating accidents, and obsolescence from the moment of its completion. Despite these issues, the Chesapeake and Ohio Canal remains a structure of historical significance in America. As the third and last effort to construct an all-water route to the West (6), the Chesapeake and Ohio Canal is an important artifact of 19th century attitudes and efforts towards commerce, trade, travel, and communication between the eastern and western United States. Other significant canals and water structures represented in the collection are the Kanawha Canal, the Washington Aqueduct, and a large collection of materials relating to the Kingston Water Supply (New York).

One of the most significant internal improvements made during this time was the railroad. The legal conflicts that arose between the canal companies and railroads is also represented in the materials relating to the Chesapeake and Ohio Canal. These materials specifically deal with the legal conflict's between the Chesapeake and Ohio Canal and the Baltimore and Ohio Railroad. The development and construction of the railroads is also represented in the materials documenting the Baltimore and Ohio Railroad, the Baltimore and Drum Point Railroad, the Northern Adirondack Railroad, the Western Maryland Railroad, the Mexican National Railroad, the Colorado Midlands Railroad, and the Columbia Railroad.

The collection also demonstrates the spirit of innovation and invention that was prevalent in the engineering field in the nineteenth century. Joseph Gies writes, "...one of the distinctive characteristics of the great nineteenth century engineering adventurers was their readiness to gamble on the translation of theory into practice" (7). In this quote, he is speaking of the civil engineer Dewitt Clinton Haskins and a project that truly encapsulates engineering invention in the nineteenth century, the Hudson River Tunnel. Responding to the increase in the population of the City of New York in the late nineteenth century from sixty thousand to three and a half million, the Hudson River Tunnel was originally devised as a way to alleviate traffic and to transport train passengers directly across the Hudson River

(8). Beginning with records dating from 1881 to 1901, the Hutton papers can be used to document not only the advances in engineering during this time but also the costs of progress. Haskins' initial efforts to build the tunnel using submerged air pressurized caissons were marked by failure and in some cases fatalities. Workers on the tunnel often suffered from what came to be known as "caisson disease" or "the bends," caused by the immense forces of compression and decompression experienced while working in the tunnels (9). This problem was so prevalent that as construction progressed the rate of worker deaths caused by "the bends" rose to twenty-five percent (10). Materials in the collection document worker complaints and deaths resulting from this disease as well as providing a technical record of the construction of the tunnel. The highlight of the materials relating to the Hudson River Tunnel is an album that contains photographs of workers in the tunnel and a detailed daily report of the construction progress on the tunnel that was maintained by Hutton's assistant, Walton Aims. The first hand account in these reports provides insight not only into the construction of the tunnel, but also the problems encountered.

Another project featured in the Hutton collection that was devised in response to the population explosion in the City of New York in the nineteenth century is the Harlem River Bridge, or as it is now known, the Washington Bridge. Known as one of the longest steel arch bridges of its time, the Harlem River Bridge also represents that spirit of invention and innovation that was prevalent in the civil engineering field during the nineteenth century. The collection provides an invaluable resource for those wishing to track the construction of the bridge from early concept drawings and proposals to finalized plans. Also present are photographs of the construction and workers. Societal response to the bridge in the form of newspaper and magazine clippings help to create the narrative of the Washington Bridge, and these are supplemented by correspondence from the builders, suppliers, and planners.

This collection also includes diaries, 1866-1901; letterpress copybooks, 1858-1901; correspondence on the Chesapeake and Ohio Canal, Hudson River Tunnel, Washington Bridge over the Harlem River, and Maryland and Colorado railroads, 1861-1901, and on Hutton's financial and real estate affairs, 1835-1921; construction photographs of the Harlem River, Cairo, Poughkeepsie, Niagara bridges and the Hudson River Tunnel, Washington Aqueduct, and Capitol Dome (in the form of albumen, cyanotype, salted paper print); data and drawings; rolled land profile drawings; canal notes, 1828-1892; Hudson River Tunnel construction reports, 1889-1891; publications, drawings, and maps of railroad routes; pamphlets and reprints on hydraulic works and water supply; road, railway, bridge, and hydraulic construction specifications, 1870-1900; drawings (linen, oil cloth, and heavy drawing paper), and blueprints; account books, 1891-1899; and plans, drawings, field notebooks, and publications on American and European construction projects, especially in Maryland, New York, and France; personal correspondence detailing his role as executor for the estates of Benjamin H. Hutton, Joseph Hutton, Annie Theller, and the Countess H. De Moltke-Hvitfeldt and his relationships with his children, siblings, cousins, and colleagues, 1850-1942.

Materials are handwritten, typed, and printed.

Special note should be made that any materials dated after the year 1901 were added to the collection by another creator who is unidentified. It can be speculated that professional materials added after this date were contributed by his brother and colleague Nathanial Hutton or his son Frank Hutton. Personal materials contributed after this date may have been added by his wife, daughters, or other members of his extended family.

Series 1, Letterpress Copybooks, 1858-1901, consists of twenty seven letterpress copybooks containing correspondence between Hutton and other engineers, architects, and building suppliers. The letterpress copybooks in this series have been arranged chronologically. The books involve a process by which ink is transferred through direct contact with the original using moisture and pressure in a copy press. The majority of the correspondence is business- related. Some letterpress copybooks are devoted to specific projects such as the Washington/Harlem River Bridge, Chesapeake and Ohio Canal, Baltimore and Drum Point Railroad, Annapolis and Elk Ridge Railroad, and the Baltimore and Ohio Railroad. The letterpress copybooks provide a record of correspondence written by Hutton, which makes it distinctive from the other correspondence in the collection. Most of the other correspondence has Hutton as recipient.

The letterpress copybooks also document Hutton's various residences throughout his life and provide a glimpse into the civil engineering profession at the time by demonstrating how engineers shared ideas and comments about projects. This can be supplemented with the printed materials in the collection as many of the authors also appear in the correspondence. Other topics covered in the letterpress copybooks include business reports (specifically the report of the president and directors of the Baltimore and Drum Point Railroad), records of people and companies

involved in projects, pasted in engineering sketches, engineering specifications and notes, travel expenses and estimates, construction histories and progress, legal issues with family estates, tax information, Colorado Railroad, payment certificate schedules, St. Paul Railroad, personal correspondence, title guarantees, Hudson River Tunnel, financial matters, real estate matters, insurance information, sketches and drawings, supply lists, cost estimates, the Memorial Bridge, Coffin Valve Company, engineering expenses, engineering calculations, payroll notes for Kingston Water Supply, proposals, account information, Hutton Park, reservoirs, contract drafts, French Society of Civil Engineers, inspection results (specifically Piedmont Bridge), land descriptions, damage reports, Morse Bridge, Illinois Central Railroad, North Sea Canal, moveable dams, iron works, site histories, Potomac Lock and Dock Company, Kanawha River canal (lock quantities, specifications, payroll information), Pennsylvania Canal, and bills for services.

Series 2, Professional Correspondence, 1861-1901, consists of correspondence that relates to Hutton's architectural and engineering projects. This series is further subdivided into two subseries: Project Correspondence and General Correspondence. Subseries 1, Project Correspondence, 1876-1899, correspondence is divided by project and arranged alphabetically. Subseries 2, General Correspondence, 1861-1901, is arranged chronologically. Both series contain handwritten and typed letters. Some letters are on letterpress copybook pages and are most likely copies. Some materials are in French and Spanish. Special note should be made that this series does not contain all of the professional correspondence in the collection. Some correspondence has been separated according to project and placed in Series 8, Professional Projects, 1830-1965, in order to make it easier for researchers to access materials related to those subjects.

Subseries 1, professional correspondence topics include comparisons between construction projects (specifically comparisons of the Kanawha River Canal to other canals), supply lists, location recommendations, sketches, construction plans and modifications, bills for supplies and works, leaks in the gates, cost estimates, Brooklyn Water Supply, use of lake storage (Ramapo Water Supply), water supply to states and counties, damages to water supply pipes, estimates of water quantities, responses to construction reports, legal issues related to projects, Baltimore and Ohio Railroad, and payment for services.

Subseries 2, general correspondence topics include employment opportunities, committee meetings and elections, land surveys, sketches, engineering plans and ideas, work on projects, dismissal from projects, notes on supplies, Washington Aqueduct, construction progress, land purchases, Civil War, Jones Falls, cost of water pumps, steam drills, lots divisions and prices, repairs, report of the engineering bureau, tidewater connection at Annapolis, bridge construction, construction costs, statement of vessels that entered and cleared Baltimore, technical questions from colleagues, Baltimore and Ohio Railroad, supply costs, letters of introduction, requests for reference, changes to plans and designs, survey reports, St. Andrew's lot, Canal Coal Company, publication process, American Society of Civil Engineers and its members, responses to project inquiries, Graving Dock gross revenue, job offers, specifications, trade figures, contracts, water levels, appointment dates and times, moveable dams, proposals for membership, salaries, Piedmont Coal Lands, maps, land profiles, Washington Bridge, board payments, Nicaragua Canal, Grant Coal Company, statistics, engineering notes, Hartford Bridge, water pressures, coal deposits, Colorado Coal, pipe lines, reservoirs, boat costs for canals, floods, bridges, letters of resignation, engines, Ruxton Viaduct, Colorado and Midland Railroad, Morse Bridge, share values, railroad locations, membership invitations, call for submissions, structural tests, record of accounts for room and board, appointments, water rights (Putnam County), publications, blueprints, visitation programs, cotton compresses, street trenches, pressures in dams, level tests, Portland Transportation bureau, trade information, concrete steel, Chicago drainage canal, ship canals, Augusta Cotton and Compress Company, Sooysmith case, Consolidated Gas Company, masonry, book binding, Columbia Railway Company, jetties, land grades, Chesapeake and Delaware canal, water wheels, pneumatic lock, tunnel arches, rifton power, Hutton's health, elevators, Brooklyn Bridge Terminals, girder weights, legal issues and their results, rating table for the Potomac, land profiles, transmission lines, transformers, water turbines, and water power on the Potomac River.

Correspondents for this series include the following: Captain Montgomery C. Meigs, Captain T.W. Symons, William Bryan, Ernest Flagg, John Hurd, Jake Wolfe, J.C. Saunders, J.H. Dolph, Charles J. Allen, G.H. Mendell, Virgil S. Bogue, B.A. Mounnerlyn, Edward Burr, H.G. Prout, R. William, H. Dodge, C.R. Suter, M. Mink, W.R. King, John Lyons, Alex Brown and Sons, John G. Butler, D. Condon, Bernard Carter, R.P. McCormick, D.R. Magruder, Andrew

Banks, Isaac Solomon, C.J. Mayer, C.W. Kern, John Herring, James S. Mackie, D.R. Magunde, D. Rittaguide, R.S. Stevens, J.L. Raudolph (Baltimore and Ohio Railroad), J.M. Lane, W.D. Stuart, W.G.P. Palmer (Committee Church of the Ascension), C. Crozet, General W. Hughes, V.R. Maus, J.M. Hood (Western Maryland Railroad Company), Ernest Pontzen, M. Haus, William F. Craighill, Harry Hutton, John W. Pearce, Reverend James A. Harrald, William Watson, A.L. Rives, Thomas Monro, A.F. Croswan (Commander United States Navy), H.R. Garden, William McAlpine, James Forrest, Wm. Bloomsfield, Daniel Ammen, Linel Wells, A. and Otto Sibeth, Alfred Noble, Clemens Hershel, Sidney Warner, E.H. de Rheville, Theodore Cooper, William Findlay Shunk, Lewis S. Wolfe, Rufus Mead, Theodore F. Taylor, John Bogart, J. Whaler, B. Williamson, Colonel F.V. Greene, Robert H. Sayre (Lehigh Valley Railroad Company), Charles W. Pussey, Louis Q. Rissel, V.C. Bogue, H.C. Eckenberger, Melville E.G. Leston, Edwin Parson, Rudolph Hering, R.S. Hale, F.M. Turner, Thosl Martindale, Justus C. Strawbridge, William M. Ayresm, R.L. Austin, A.M. Miller, P. Livingston Dunn, T.J. Cleaver, C.S. Dutton, H.A. Carson, William Bainbridge Jaudon, H.A. Presset, Thomas H. McCann, Russel Sturgis, H.G. Prout, Alexis H. French, John K. Cowen, F.W. Williams, J. Waldorf, B.H. Byrant, B.H. Jones, M.H. Rogers, J.W. Ogden, General W. Cashing, William Longhudge, A.J. Cameron, T.L. Patterson, J.J. Hagerman, H. Wigglesworth, Charles B. Rowland, E. Bantz, W.G. Lathrop, Clarence King, George Rowland, George A. Tibbals (Continental Iron Works), George N. Vanderbilt, Eugene C. Lewis, F.P. Burt, Colonel John C. Clarke, Lieutenant Thomas Turtle, W.S.M. Scott, E. Bates Dorsey, Bernard Carter, George M. Shriver (Baltimore and Ohio Railroad), Russel Sturgis, Macmillan Publishing, James Abernethy, B. Baker, J.G.W. Fynje, A. Mallet, Jean Hersuy, L.F. Vernon Horcourt, Robert Lilley, A.J. Johnson, F.M. Colby, Henry D. Loney, A.S. Cameron, James A. Harrald, William Watson, John B. Lervis, A.L. Rives, Edwin F. Bidell, Frank H. Stockett, E. McMahon, C.F. Elgin, Enrique Budge, G. Clayton Gardiner, Dwight Porter, William A. Chapman, T.E. Sickels, Theodore Cooper, C.J. Warner, Institution of Civil Engineers, Robert Gordon, United States Coast of Geodetic Survey Office, C.P. Pattun, J.N. Putnam, Sidney B. Warner, H.D. Fisher, Union Pacific Railway Company, Lewis S. Wolle, George E. Waring Junior, The American Exhibition, G.F. Swain, American Society of Civil Engineers, N.H. Whitten, U.S. Engineer Office, Government Works Committee, J.J. Hagerman, D. Jackson, Sterling Iron and Railway Company, E.P. Alexander, E. Williamson, Central Railway Company of New Jersey, William A. Underwood, F. Collingwood, James Dun (Atchison, Topeka and Santa Fe Railroad Company), Henry F. Kilburn, Louis A. Bissell, Virgil G. Boque, H.C. Eckenberger, Melville Egleston, Charles Parson, George Swain, Continental Iron Works, Rudolph Hering, J.B. Gordon, Mayor's Office (Baltimore), Harry Robinson, Pennsylvania Railway Company, W.H. Gahagan, L. Luiggi, B.H. Bryant, T.J. Cleaver (Chesapeake and Delaware Canal Company), H.A. Carson, H.A. Presset (Department of the Interior, United States Geological Survey), John K. Cowen, Vernon H. Brown, J. Waldorf, B.H. Bryant, L.F. Root, P.W. White, Metropolitan Railroad Company, Charles F. Mayer (Consolidated Coal Company, Cumberland and Pennsylvania Railroad Company), J.M. Lane (Western Maryland Railroad), Dr. R.S. Stewart (Annapolis and Elk Ridge Railroad), Baltimore and Drum Point Railroad (John Lyons, John G. Butler, D. Candon, R.P. McCormick, Andrew Banks), Thomas F. Rowland, J.A. Bensel, Walton Aims, S.D. Covkendall, H.C. Rogers, John F. Ward, T.B. Jewell, H.A. Pressey, C.S. Armstrong, J. Nennett, V.G. Bague.

Series 3, Personal Correspondence, 1850-1942, contains correspondence with immediate and extended family, specifically the heirs to the Benjamin H. Hutton and Joseph Hutton estates and Adele Gorman. Correspondence is primarily arranged chronologically, but some files have been divided based on subject or author (the Deer Park and Adele Gorman files), or by form (the Telegrams, and Cablegrams file). Special note is made of the posthumous correspondence file, which includes correspondence both relating to Hutton's death and correspondence that was written by family members after the years of his death. The series contains both hand written and typed letters. Some correspondence is in French. The correspondence demonstrates his relationship with his children specifically Elizabeth (Bessie) Hutton, and illuminates his role in his family. This series also provides details about nineteenth century upper class society and activities. Special note should be made that this folder does not contain all of the personal correspondence contained in the collection. Some correspondence has been separated according to recipient, or subject in order to make researching these recipients or subjects easier.

Series 3 correspondence topics include: estate payments, distribution of assets, funds transfers, estate lines, conflicts with tenants, sketches, lot maintenance, real estate sales, deeds, real estate sales negotiations, congratulations wishes on new babies, family illnesses, family affairs and travels, traveling directions, personal investments, invitations for social occasions, family debts, professional interests, professional and personal appointments, family issues, requests for money, sketches, advice to children (specifically Frank Hutton), life

insurance, books, letters of introduction, legal issues, funeral expenses, charity donations, advertisements, minutes from professional organizations, army enlistment, deaths of friends and family, recipes, estimates of personal expenses, renovations, stock certificates (Great Northern Railway Company, New York), food, social activities, the weather, marriages, real estate and construction plans, and loan agreements.

Correspondents include the following: Frank Hutton, Thomas B. Brookes, J.L. Marcauley, C.M. Matthews, Edward J. Hancy, John M. Wilson, H.A. Carson, William H. Wiley (of John Wiley and Sons Scientific Publishers, New York), Georgina Hutton, Pierre and Jane Casson, George McNaughlin, Henrietta Hutton, Aaron Pennington Whitehead, J.B. Wheeler, B. Williamson, Robert De Forest, Elizabeth (Bessie) Hutton, Grace Beukard, J.C. Saunders, Mary Hutton, William J. Pennington, C.S. Hurd, Henry C. Cooper, Henry J. Segers, S.F. Miller, Annie Theller, Alfred Noble, Maria Burton, Joseph Hobson, E. Lennon, F. Hulberg, Charles Gordon Hutton, Edward C. Ebert, A. William Lewin, E.R. Dunn, William P. Craighill, Theodore Cooper, P.I. Chapelle, Anita McAlpine, Clarence King, Victoria Raymond, and Adele Gorman.

Series 4, Personal Materials, 1835-1946, contains documentation about Hutton's personal finances, role as executor of the Benjamin H. Hutton, Joseph Hutton, Annie Theller, and Countess H. De Moltke-Hvitfeldt estates, Mary Augusta Hutton (wife), Mary Hutton (daughter), Frank Hutton, John Caulfield (son-in-law), and B.F. and C.H. Hutton. The series has been divided into four subseries: Financial Records, 1876-1901, Estate and Real Estate Records, 1835-1921, Other Huttons, 1876-1936, and Personal Material, 1878-1946. Subseries 2, Estate and Real Estate Records, 1835-1921, contains correspondence relating to specific family estates and family members. This correspondence was separated from Series 3, Personal Correspondence, 1850-1942, to make it easier for researchers to access all records relating to the family estates. This series includes hand written, typed, and printed materials. Some materials are in French. All material dated after 1901 has been added to the collection by other creators such as Hutton's wife and children.

Subseries 1, Financial Records, 1876-1901, includes account books, account records, correspondence related to bank accounts, bank statements, financial notes, bills and proofs of payment, rent receipts, tax bills (New York, Flatbush, Montgomery County), checks, money exchanges, receipts for tax payments, real estate receipts, stock and bond certificates, loan agreements, executor accounts, rebate calculation sheet, and tax and insurance payments.

Subseries 2, Estate and Real Estate Records, 1835-1921, includes property maps and information (rent, mortgage costs, deeds), correspondence, notes on estate distribution, estate assets, value of estate and estate payments, account records, loan agreements, receipts, proof of payments, checks, financial records, legal documents, insurance documents, tax bills, auction receipts, and wills relating to the estates of Benjamin H. Hutton, Joseph Hutton, Countess H. de Moltke-Hivtfeldt, Annie Theller, and William R. Hutton. Also included are correspondence, property maps and information, and deeds and mortgages on Hutton properties.

Subseries 2, the estate and real estate records correspondence topics include: Virginia state building codes, construction costs, construction notices, purchasing offers for property, real estate prices, receipts of payments, property lines, real estate purchases and sales, real estate sales negotiations, deeds insurance estimates and costs, loan costs, property estimates, renovation costs, mortgages, property damages and repairs, property tax payments, insurance rates and payments, rent payments, telephone installation, building permits, rental agreements, reports on property condition, contracts of sale, conflicts with tenants, changes of address, deeds, distribution of estate monies, details about the Countess' illness, estate arrangements, changes of address, problems arising out of estate distribution, payment of debts, will details, selling of mortgage shares, accounts, estate settlement, money cables and transfers, dealings with lawyers, rent on Hutton Park property, legal and accounting fees, power of attorney transfer, investments, property security, land appraisals, lists of assets, legacy taxes, mortgages transfers, property management, Flatbush property, property rent and values, and physicians bills.

Correspondents include the following: A.C. Weeks, Walter I. Green, John D. Probsh, A.G. Darwin, Thomas H. McCann, Allan Farguhar, Thomas Dawson, Potter and Crandall Real Estate and Insurance Brokers, George C. Tilyou, H.D. Olephant, F. Winston, Richard E. Calbraith, Frank P. Martin, Henry DeForest, Henry C. Cooper, Metropolitan Telephone and Telegraph Company, John Ecker, C.K. Avevill, Georgina Hutton, Edward J. Hancy, Robert Graham, W.M. Bennett, Willis E. Merriman, Nathan L. Miller, Harry Hutton, Marquise de Portes (Adele Gorman), Annie Theller, Samuel L. Theller, Mrs. R. Locke, Frank Z. Adams, John Palmer (Secretary of State, New York), J.T. Cammeyer, Frank P. Martin, Florence Theller, Francis H. Seger, Henry C. Cooper, D.W.G. Cammeyer,

Campbell W. Adams, Jane Casson, Elizabeth Hutton, Rene de Portes, H.G. Atkins, Grace Beukard, Aaron Pennington Muikhead, J.E. Delapalme, T.H. Powers, Egerton L. Winthrop Junior, George B. Glover, William Jay and Robert W. Candler, B. Williamson, J.E. Knaff, Cornelius C. Vermeule, S.V. Hayden, Charles G. Landon[?], H.A. Hurlbert, F.A. Black, John L. Calwalder, the Health Department of New York, A.G. Darwin, William Laue, Frederick Frelinghuysen, Charles S. Brown, Henrietta Hutton, Edward Gelon.

Subseries 3, Other Huttons, 1874-1936, includes professional drawings and proposals, checks, insurance information, correspondence, tax information, medical information, tax bills, relating to Mary Augusta Hutton (wife), Mary Hutton (daughter), Henry and Harry Hutton, Frank Hutton (son), John Caulfield (son-in-law), B.F. Hutton, and C.H. Hutton.

Subseries 4, Personal Materials, 1878-1946, contains handwritten property notes, school notes, sermons, travel documents, menus, Christmas cards, jewelry box, postal guide, typed religious materials and flyers.

Series 5, Diaries, 1866-1901, contains twenty nine diary books that document both Hutton's personal and professional life. These diaries provide not only a record of Hutton's life, but were also used by Hutton himself as a reference tool. When working on projects he would refer to notes and observations he made in his diary (as evidenced by notes made in his diaries). The first pages of the diaries often list his height, weight and clothing sizes as they varied from year to year. A researcher could probably use the cashbooks (see Series 7) and the diaries in conjunction as both detail the purchases made by Hutton. Many of the diaries also include a short record of accounts in the back. The diaries are arranged chronologically.

Topics found in the diaries include short form accounts of daily activities and appointments, records of the weather, Chesapeake and Ohio Canal project, construction progress on projects, steam pumps, sketches and calculations, extension of Washington railroads, cost of food, work supplies, travel costs, costs of goods and food, work deadlines, home renovations, visits to family, cash accounts, accounts of household duties, produce on Woodlands property, records of deaths, debts owed, account of clearing Woodlands property, church visits, Hancock and Tonoloway Aqueduct, canals, Drum Point Railroad, Montgomery C. Meigs, Washington Aqueduct, Annapolis Water Works, telegram costs, wages for Chesapeake and Ohio Canal project, William Craighill, Morris Canal, Annapolis Railroad and Canal, professional duties (inspections), Kanawha River Canal, travel schedules, professional expenses, cash received from Chesapeake and Ohio Canal project, Baltimore and Ohio Railroad, John's Dam, cathedral construction (St. Patricks?), Piedmont Bridge, Cumberland, account of farm property belonging to Major Campbell Bruns, Cunard Pier, Marquise de Portes, rent costs, Baltimore Canal, Kingston Water Supply, Croton Orange Estate, Pierre Casson, Hudson River Tunnel, Washington/Harlem River Bridge, entertainment costs, Greenwood cemetery, train schedule, notes on illness, real estate sales, Hutton Park, Benjamin H. Hutton estate and heirs, estimates, accounts of correspondence received and sent, Central Railroad, rent on Orange properties, addresses, contracts and building supplies for projects, personal finances, Joseph Hutton property on Vanderbilt Avenue, New York, amounts paid and received, medical appointments, Ramapo Water Company, drawing progress of maps and diagrams, Harbor Board (New York), property repairs, inspection and test reports, reservoirs, lists of birthdays, Boston Tunnel, family financial issues, tax payments, and prayers.

Series 6, Notebooks, 1860-1900, document the engineering and architectural projects worked on by Hutton. The series has been divided into three subseries: Subseries 1, Engineering and Survey Field Notes, 1860-1899; Subseries 2, Notebooks, 1871-1886; and Subseries 3, Notes, 1863-1900. Subseries 1, Engineering and Survey Field Notes, 1860-1899, contains sixteen field notebooks used by Hutton. Subseries 2, Notebooks, 1871-1886, contains seven notebooks. Subseries three, Notes, 1863-1900, contains four documents.

Some notebooks correspond to specific projects such as the Kanawha River Canal (lockgate and Phoenix Waterline), Chesapeake and Ohio Canal, Buffalo Reservoir, Potomac Lock and Dock Company, Northern Adirondack Railroad account, Washington Aqueduct, Little Rock Bridge, Wilson-Adam Dock, Croten Brick Works, Hutton Park, Centennial Iron Works, Cumberland Canal, Williamsport Aqueduct, Catoctin Aqueduct, Alexandria Canal, Miller's Saw Mill, Seneca Dam, Union Tunnel, Cumberland Waterworks, Victoria Bridge, Welland Canal, North Sea Canal, Ramapo Water Company, Annapolis Water Company, Antietam Aqueduct, Interoceanic Canal, San Quentin Canal, Suez Canal, Amsterdam Canal, Harlem Bulkhead, Morris Canal, Blue Lake Canal, and Nicaragua Canal.

These notebooks should be used in conjunction with the other materials in the collection related to professional projects, as they often provide more detailed accounts of the construction and land surveys. Some of the notebooks contain entries from several different sources. The notebooks were probably shared among the engineers working on these projects. The notebooks also contain looseleaf ephemera such as hand written calculations, newspaper clippings, and blueprints. Languages found in this series are English and French.

Notebook topics include construction projects, supply needs, costs for labor, sketches (Woodland Mills, landscapes, dams, railway cars, Noland Tunnel), costs of crops, survey measurements, cost of livestock, aqueducts, inspections, canal bridges, seed prices, dams, measurements, coffer dam, canal maintenance, worker salaries, calculations, towpath sketches and measurements, shipping rates, worker accidents, water and coal used, geometrical sketches (Washington Aqueduct), locks, damage reports, interactions with other engineers (William Reading), coal shipments on the canal, travel expenses, land survey notes, drafts for correspondence, William Craighill, Victoria docks, lists of personal supplies used, construction time estimates, surveying expenses, telegram costs, sand pump, canal from Sherling to Tuxedo Bay, analysis of several artificial lakes and reservoirs, distances of reservoirs to main pipes, calculations for the Austin Wheel, engine construction, bridges, gauging water depth, results and observations of tests and performance, problems with construction, to-do lists, cost of land surrounding towpaths, Fawcett's Lock, Tarman's Lock, comparison of costs in transporting coal by water and by rail, inspection notes, iron work, drainages, leaks, cost of supplies, watergates, harbor ferries, railroad station distances, flood protection, Panama Canal via the Nicaraguan route, cost of jetties, water levels, pressure of steam, boilers, steam and water cycle, water depth, cement, Great Falls, Virginia, waterflow, soundings, time of floats, flow of currents, rain fall measurements, tunnel measurements, cost of trenching San Francisco water supply, record of livestock, cost of food, rates of sawing woods and mills, preliminary railroad line measurements, profile of final line, and railroad line profiles.

Series 7, Cash Books, 1856-1899, contains seven cashbooks which list prices for personal items purchased by Hutton. Topics include groceries, church dues, clothes, hygiene products, cigars, some short journal entries about his work (Williamstown), concerts, dinners, family addresses, cakes, meals, cars, stamps, office supplies (pencils and papers), valentines, glasses, gloves, fabric, medicine, needles, diapers, tobacco, shoes (adult and childrens), travel expenses, telegrams, candles, newspapers, liquor, coal oil, jewelry, allowances given to family members, bank deposits, monies paid and received, taxes, subscriptions, tailoring costs, deposits and payments into estate trusts, and notes about payments to Benjamin H. Hutton heirs. The cashbooks also contain some personal loose leaf ephemera such as prayers, sketches, and engineering notes collected by Hutton.

Series 8, Professional Projects, 1830-1965, contains documents about engineering and architectural projects throughout Hutton's career, including information about the professional organizations and the legal issues in which he was involved. This series has been divided into eight subseries based on project, document form, and document subject. Some materials are in French and Italian.

Series 8, Professional Projects, also includes correspondence related to specific projects, primarily the Chesapeake and Ohio Canal, the Hudson River Tunnel, the Washington/Harlem River Bridge, and the Georgetown Incline.

Topics include construction and repair to the Chesapeake and Ohio Canal, engineering and use of Chesapeake and Ohio Canal, worker contracts, supply and labor purchases, design plans and proposals, construction and repair costs, supply notes and costs of supplies, water pressure and power, shipping materials and routes (specifically the shipping of coal), inspections and their findings, condition of canal dam and locks, water supply, drainage, sketches, board proceedings, business meetings, deeds, cost comparisons to other shipping methods, hiring processes, wages, cost estimates, Hutton's consulting fees, measurements and calculations, funding issues, worker conflicts, negotiations with municipal governments, payment schedules, bills for services, air pressure in Hudson River Tunnel, permission for construction, specifications, mortality rate among workers on the Hudson River Tunnel, construction reports, outlet incline, proposals for construction, letters of introduction, railroad versus water for trade, controversy with Tiersey, construction contracts, construction schedules, construction issues, construction progress, construction damage, basis for estimates, supply requests, internal politics, changes to construction plans, contract and price adjustments, issues with suppliers, construction delays, work permits, bills, worker issues, engineering notes, construction excavations, expenses, construction instructions, Union Bridge Company, lighting installations, construction processes, hiring practices, electrical conductors, water proofing, hydraulics, cement,

concrete, payment of contributors, processes of approval for construction, meeting dates of the Harlem River Bridge Commission, and contract restrictions.

Correspondents include the following: W.W.M. Kaig, Henry Dodge, E. Mulvany, John Shay, James Clarke, H.D. Whitcomb, Horace Benton, J. Rellan, J.R. Maus, W.E. Merrill, A.P. Gorman, J.H. Staats, Vernon H. Brown, Charles H. Fisher (New York Central and Hudson River Railway Company), B. Baker, John Fowler, Benjamin and John Dos Passos, Charles B. Colby, Charles B. Brush, S. Pearson, Stanford White, Horace E. Golding, R.H. Smith, Daniel Lord, A. Fteley, Herbert Hinds, J.R. Bartlett, D.M. Hirsch, M.H. Bartholomew, Thomas O. Driscoll, W.E. Porter, Thomas F. Rowland, George Edward Harding, R.H. Dames, William Watson, James B. Eads, J.D. Bright, H. Aston, Charles Suley, A.M. Maynard, W.R. Henton, G. Geddes, H.P. Gilbut, Malcolm W. Niver (Secretary of the Harlem River Bridge Commission), J.D. Patterson, George Devin (Assistant Engineer Washington/ Harlem River Bridge), J.B. Wheeler, John Bogart, Charles Burns, J. McClellon, Rob Bassee, B. Williamson, Theodore Cooper, Lewis Cass Ledyard, R.M. Hunt, John Cooper, Henry Wilson, A.A. Caille, Myles Tierney, W. Pentzen, L.B. Cantfield, George Q. Grumstaid Junior, M.J. Funton, George Pierce, W.O. Fayerweather, Noah S. Belthen, Herbert Steward, W.M. Habirsham. Subseries 1, Chesapeake and Ohio Canal, 1828-1965, consists of plans, blueprints, land profiles, drawings, boat rates, contract forms, order forms, descriptions of the canal, design information, engineering data, sketches, cost estimates, land titles, microfilm, business papers, supply bills, patent bills, news clippings, reports, specifications, stockholder's reports, receipts, water leases, printed materials, and correspondence.

The Chesapeake and Ohio Canal project was started in 1828 and completed twenty two years later in 1850. The canal's main objective was to connect Georgetown to the coal banks above Cumberland, Maryland, providing a short and cheap trade route between the eastern and western United States. It was also hoped that the canal would provide greater communication and travel between these two regions. Plagued by natural disasters, and construction setbacks, the canal was never completed in time to be useful and became obsolete shortly after its completion. Canal trade was eventually put out of business by the increase of railroads. Although it was an important development in engineering at its inception, the Chesapeake and Ohio Canal is no longer in use and has become what locals affectionately refer to as "the old ditch." The canal was designated a National Historical Park in 1971 and consists of 184.5 miles of hiking and biking trails.

Subseries 2, Hudson River Tunnel, 1887-1901, consists of agreements for construction, certificates, contracts, and cost estimates, construction reports, engineering notebooks, engineering notes, sketches, land profiles, maps, progress profiles, plans, proposals, printed material, statements of expenses, and correspondence.

The Hudson River Tunnel project was started in 1874, and the final tubes were opened in 1910 after several construction setbacks. The tunnel connects Weehawken, New Jersey and Pennsylvania Station in Manhattan, New York City. Today the Hudson River Tunnel, known as the North River Tunnels is used by Amtrak's Northeast Corridor and New Jersey Transit rail lines.

Subseries 3, Harlem River Bridge, 1878-1982, consists of blueprints, printed materials, photographs, engineer's estimates, schedules, costs, reports, proposals, contracts, specifications, and correspondence.

The Harlem River Bridge project was started in 1885 and was completed in 1889. It spans the Harlem River in New York City, New York and connects the Washington Heights section of Manhattan with the Bronx. It was later named and is still known as the Washington Bridge and has been adapted over time to carry highway traffic. These adaptations have allowed the bridge to remain in use today.

Subseries 4, Other Projects, 1858-1832, consists of drawings, maps, blueprints, plans, proposals, cost estimates, bills, correspondence, sketches, land profiles, dimensions, engineering notes, account records, photostats, supply lists, calculations, legal documents, surveys, inspection reports, financial data, and measurements on architectural and engineering projects. Highlights of this subseries include: Western Maryland Railroad, Washington Aqueduct, Panama Canal, Ramapo Water Company, Piedmont Bridge, Northern Adirondack Railroad, Columbia Railroad, Morris Canal, Pittsfield and Williamstown Railroad, Suez Canal, St. Gothard Canal, Tansa Dam, Colorado Midland Railroad Company, Memorial Bridge, Mersey Tunnel, Little Rock Bridge, Kingston Water Supply, Kanawha River Canal, Florida Ship Canal, East Jersey Water Company, Consolidated Coal Company, Dismal Swamp Canal, Boston and Baltimore Tunnels, St. Patrick's Cathedral, Baltimore and Ohio Railroad, Annapolis Water Company, Baltimore and Drum Point Railroad Company, and the Baltimore Beltline.

Subseries 5, Unidentified Project Files, 1872-1900, consists of bills of sale, engineering forms and regulations, cement test results and methods, census bulletin, contracts, cost estimates, correspondence, notes on publications, engineering data and notes, drawings, surveys, sketches, payrolls, photographs, and reports.

Subseries 6, Specifications, 1870-1900, consists of documents related to some of Hutton's projects, including specifications for bridges, reservoirs, canals, viaducts, docks, buildings, water works, and tunnels. Some specifications are more general, and some are blank proposal/specification forms. There are also proposals for estimates and a "call" or advertisement to contractors to bid on certain projects. Many of the specifications deal with projects in New York State, but projects in Pennsylvania, the City of Baltimore, and Europe are represented. The materials are arranged alphabetically by project name. There is one folder of documentation for the Potomac River Bridge (Arlington Memorial Bridge) in Washington, D.C. The Arlington Memorial Bridge was part of the 1901 McMillan Commission's plan for restoring Pierre (Peter) Charles L'Enfant's original plan for the capital. Two decades passed before construction was initiated by the architectural firm McKim, Mead, and White. The documentation for the Memorial Bridge consists of calculations and monetary figures for materials such as granite.

Subseries 7, Legal Documents, 1886, contains documents related to a patent infringement suit for moveable dams involving Alfred Pasqueau vs. the United States. This file contains both a printed version of the case and a handwritten statement from Hutton.

Subseries 8, Professional Organizations, 1870-1902, contains documents related to professional organizations where Hutton held membership. Specific organizations represented are American Institute of Architects, American Society of Civil Engineers, Institution of Civil Engineers, Boston Society of Civil Engineers, Societe des Ingenieurs Civils de France, Librarie Polytechnique, American Agency of "Engineering" in London, Imperial Institute, League of Associated Engineers, Railroad Corporation, American Institute of Mining Engineers, and the Century Association. Material in the subseries includes correspondence, candidates for membership, membership payments, membership lists, meeting minutes, schedule of terms, professional practices, charges, articles of association, invitations for membership, and election notes. Some materials are in French.

Series 9, Printed Materials, 1850-1913, contains a variety of printed materials relating to engineering and architectural projects written by Hutton and fellow engineers. This series can be used to examine not only professional developments of the period and responses to those developments, but also to track how ideas were transferred between engineers across countries and continents. This series should be used in conjunction with the professional correspondence found in this collection, as many of the authors also appear there. Some materials are in French, German, Spanish, and Italian.

Subseries 1, Printed Materials by Hutton, 1852-1900, includes printed papers on the Missouri flood wave, the Ravine du Sud, the Potomac waterfront, the Colorado midlands, and the application of water supply machinery.

Subseries 2, Printed Materials by Others, 1826-1913, includes printed materials on the Chesapeake and Ohio Canals, Tehuantec Ship Railway, Interoceanic canals and railways, jetties, Nicaragua Canal, uses of cements, mortars, concretes, steam power, harbors, Niagara Falls, Kanawha River canal, Mississippi River, Hudson River Bridge, sewage disposal, Washington Aqueduct, specifications, construction progress reports, hydraulic experiments, water supply, drainage, road surfacing, sea walls, water-cooling apparatus, pollution reports, bridges, pipes, channels, reservoirs, irrigation, water power, and sewers.

Subseries 2 contains an issue of *The North American Review* in which Hutton has specifically highlighted an article entitled, "The Inter-Oceanic Canal." Please see the container list for names of authors.

Subseries 3, Printed Materials with No Author, 1852-1903, includes printed materials on harbor reports, Annapolis Water Company, Ramapo Water Company, water departments and boards, maps, engineer's reports, sea walls, preservation of structures, annual reports, Coal and Iron Railway Company, sewers, Baltimore and Drum Point Railroad, contract specifications, proposals, social club life, Croton Water Supply, law suits, water supplies, moveable dams, reservoirs, East River Bridge, Eastern Canal, water filtration, Kingston New Water Supply, water pipes, locks, docks, contracts, construction reports, Croton Water Supply, and surveys. Also included are issues of journals such as *Le Correspondant*, *Circular of the Office of Chief Engineers*, *The Club*, *VIII Congres International de Navigation*, *Journal of the Association of Engineering Studies*, and *Journal of the Franklin Institute*.

Subseries 4, Newspaper, Journals and Magazine Clippings, 1873-1900, contains clippings from a variety of newspapers such as *Scientific American*, and *Railroad Gazette*. Subjects included are the Union Tunnel opening in Baltimore, Drum Point Railroad, railroad company conflicts, Washington/Harlem River Bridge, Metropolitan Railroad, Western Maryland Railroad, crop prospects, lumber trade, North Avenue Bridge, Nicaraguan Canal, harbors, river improvements, reactions to engineering projects, Belt tunnel, city transit, Washington, D.C. flood in 1880, tunnel shields, Springfield Bridge, railroad patents, Panama Canal, jetties, Hudson Tunnel, steel boilers, composition and use of cement, and the Brooklyn Bridge.

Subseries 5, Oversized Printed Materials, 1889-1892, contains large printed materials related to the Washington Aqueduct, General Post Office Building, subway arches, cornices, Warwick's Castle, Neuschwanstein Castle, Renaissance paintings, botanical drawings, school buildings, church architecture, the Hospital for the Insane of the Army and Navy and the District of Columbia, the Panama Canal, Morningside Park, and the Mississippi Jetties. Also includes engravings of Hutton, T.N. Talfound, and F. Jeffrey and photographs of Montgomery C. Meigs, and Hutton. Some materials are in German and French.

References:

- 1. Ward, George Washington, "The Early Development of the Chesapeake and Ohio Canal Project," *Johns Hopkins University Studies in Historical and Political Science* Series XVII, no. 9-11 (1899): 8.
- 2. Ibid., 88.
- 3. Ibid., 55.
- 4. Ibid., 90.
- 5. Sanderlin, Walter S., "The Great National Project: A History of the Chesapeake and Ohio Canal," *Johns Hopkins University Studies in Historical and Political Science* Series LXIV, no. 1 (1946): 21.
- 6. Ibid., 282.
- 7. Gies, Joseph, Adventure Underground (Garden City, N.Y.: Doubleday and Company Inc., 1962): 134.
- 8. Ibid., 131-132.
- 9. Ibid., 135-136.
- 10. Ibid., 145.

Arrangement

The collection is arranged into ten series.

Series 1: Letterpress Copybooks, 1858-1901

Series 2: Professional Correspondence, 1861-1901

Subseries 2.1: Project Correspondence, 1876-1899

Subseries 2.2: General Correspondence, 1861-1901

Series 3: Personal Correspondence, 1850-1942

Series 4: Personal Materials, 1835-1946

Subseries 4.1: Financial Records, 1876-1901

Subseries 4.2: Estate and Real Estate Records, 1835-1921

Subseries 4.3: Other Huttons, 1874-1936

Subseries 4.4: Personal Materials, 1878-1946

Series 5: Diaries, 1866-1901

Series 6: Notebooks, 1860-1900

Subseries 6.1: Engineering and Survey Field Notes, 1860-1899

Subseries 6.2: Notebooks, 1871-1886

Subseries 6.3: Notes, 1863-1900

Series 7: Cashbooks, 1856-1899

Series 8: Professional Projects, 1830-1965

Subseries 8.1: Chesapeake and Ohio Canal, 1828-1965

Subseries 8.2: Hudson River Tunnel, 1887-1901

Subseries 8.3: Harlem River Bridge, 1878-1892

Subseries 8.4: Other Projects, 1858-1932

Subseries 8.5: Identified Project Files, 1872-1900

Subseries 8.6: Specifications, 1870-1900

Subseries 8.7: Legal Documents, 1886

Subseries 8.8: Professional Organizations, 1870-1902

Series 9: Printed Materials, 1826-1913

Subseries 9.1: Printed Materials by Hutton, 1852-1900

Subseries 9.2: Printed Materials by Others, 1826-1913

Subseries 9.3: Newspaper, Journals, and Magazine Clippings, 1855-1901

Subseries 9.4: Oversized Printed Material, 1889-1892

Series 10: Drawings, 1875, 1883

Bibliography

Gies, Joseph. Adventure Underground. Garden City, N.Y.: Doubleday and Company Inc., 1962.

Monzione, Joseph. "William R. Hutton." A.P.W.A. Reporter (Sept. 1977): 6-7.

Sanderlin, Walter S. "The Great National Project: A History of the Chesapeake and Ohio Canal." *Johns Hopkins University Studies in Historical and Political Science* Series LXIV, no. 1 (1946).

Skamstad, Harold. "The Georgetown Canal Incline." *Technology and Culture* Vol. 10, no. 4 (Oct. 1969): 549-560.

Ward, George Washington. "The Early Development of the Chesapeake and Ohio Canal Project." *Johns Hopkins University Studies in Historical and Political Science* Series XVII, no. 9-11 (1899).

Waters, Willard O. "Introduction." California 1847-1852. San Marino: Huntington Library, 1942.

Waters, Willard O. "Memoirs." Glances at California 1847-1853. San Marino: Huntington Library, 1942: ix-xx.

'William Rich Hutton." The Club: A Journal of Club Life for Men and Women (July 1894): 37.

William R. Hutton Papers. 1830-1965. Archives Center. National Museum of American History. Smithsonian Institution.

The Woodlands Collection. The Montgomery County Historical Society.

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

Annapolis Waterworks

Aqueducts

Arch bridges

Architects -- 19th century

Architecture -- United States

Architecture -- Washington (D.C.)

Books

Bridge construction industry -- United States

Bridges -- Design and construction

Bridges -- New York (N.Y.)

Bridges -- United States

Canals

Canals -- Design and construction

Canals -- Maryland

Canals -- Panama

Canals -- Washington (D.C.)

Civil engineering

Civil engineers

Coal -- Transportation

Concrete

Concrete construction

Construction -- Washington (D.C.)

Construction equipment

Construction workers

Dams

Docks

Domestic and family life

Engineering notebooks

Harlem River Bridge

Harlem River Bridge Commission

Hydraulic engineering

Iron and steel bridges

Locks and dams

Patents

Railroad bridges

Railroad companies

Railroad construction

Railroad engineering

Railroads -- 19th century

Railroads -- Maryland

Reservoirs

Sewage disposal

Shipping

Steam engineering

Tunnels

Tunnels -- New York (N.Y.)

Underground construction

Underwater tunnels

Washington (D.C.) -- 19th century

Water-supply

Waterworks

Western Maryland Railroad

Types of Materials:

Account books -- 19th century

Administrative records

Albumen prints

Albums

Annual reports

Architectural drawings

Blueprints

Booklets

Books -- 19th century

Business letters

Business records -- 19th century

Cashbooks

Christmas cards

Contracts

Correspondence

Correspondence -- 19th-20th century

Cyanotypes

Deeds

Diaries

Diaries -- 19th century

Drawings

Drawings -- 19th century

Family papers -- 18th century

Financial records -- 19th century

Land titles

Legal documents

Letter books

Letterpress copybooks

Letters

Linen tracings

Maps -- 19th century

Menus

Microfilms

Notebooks

Notes

Photoengravings

Photograph albums

Photographic prints

Photographs

Photographs -- 19th century

Photostats

Plans (drawings)

Printed material

Receipts

Reports

Salted paper prints

Sketches

Specifications

Stock certificates

Tax records

Technical drawings

Technical literature

Topographic maps

Places:

Baltimore (Md.)

Chesapeake and Ohio Canal

France

Georgetown (Washington, D.C.)

Hudson River

Hudson River Tunnel

Kanawha River Canal

Maryland

New Croton Aqueduct

New Jersey

New York

New York (N.Y.)

Panama Canal (Panama)

Potomac River -- 19th century

Washington Aqueduct

Washington Bridge

Washington Memorial Bridge

Container Listing

Series 1: Letterpress copybooks, 1858-1901

| Box 16, Folder 1 | Letterpress copybooks, 1858 November-1871 December |
|-------------------|--|
| Box 16, Folder 2 | Letterpress copybooks, 1872 May-1873 July |
| Box 16, Folder 3 | Letterpress copybooks, 1873 January-1874 July |
| Box 23, Folder 20 | Baltimore and Drum Railroad and Annapolis and Elk Ridge Railroad, 1875 |
| Box 23, Folder 21 | Letterpress copybooks, 1875-1876 |
| Box 17, Folder 1 | Letterpress copybooks, [1875-1880?] |
| Box 17, Folder 2 | Chesapeake and Ohio Canal Company, 1876-1877 |
| Box 17, Folder 3 | Chesapeake and Ohio Canal Dam; Baltimore and Ohio Railroad details; Roebling's and Sons; Poole and Hunt, 1877-1879 |
| Box 18, Folder 1 | Letterpress copybooks, 1879-1883 |
| Box 23, Folder 22 | Letterpress copybooks, 1880-1881 |
| Box 18, Folder 2 | Letterpress copybooks, 1883 December-1886 September |
| Box 23, Folder 23 | Harlem River Bridge,, 1887-1888 |
| Box 18, Folder 3 | Letterpress copybooks, 1887-1889 |
| Box 23, Folder 24 | Letterpress copybooks, 1888-1889 |
| Box 19, Folder 2 | Letterpress copybooks, 1889-1890 |
| Box 19, Folder 1 | Letterpress copybooks, 1889 September-1890 November |
| Box 19, Folder 3 | Letterpress copybooks, 1890 October-1901 September |
| Box 19, Folder 4 | Letterpress copybooks, 1890 December-1893 January |
| Box 20, Folder 1 | Letterpress copybooks, 1891-1892 |
| Box 20, Folder 2 | Letterpress copybooks, 1892-1893 |

| Box 20, Folder 3 | Letterpress copybooks, 1893-1894 |
|------------------|--|
| Box 22, Folder 1 | Letterpress copybooks, 1893-1895 |
| Box 22, Folder 2 | Letterpress copybooks, 1894-1897 |
| Box 22, Folder 3 | Letterpress copybooks, 1895 March-1896 November |
| Box 22, Folder 4 | Letterpress copybooks, 1896 November- 1898 March |
| Box 21, Folder 1 | Letterpress copybooks, 1897-1901 |
| Box 21, Folder 2 | Letterpress copybooks, 1901 April-1901 November |

Series 2: Professional Correspondence, 1861-1901

Subseries 2.1: Project Correspondence, 1876-1899

| Box 32, Folder 1 | Baltimore Beltline correspondence, 1894-1897 |
|------------------|--|
| Box 32, Folder 2 | Collected correspondence with Floridian Railroad Companies (International Railroad and Transportation Company, Florida), 1882-1883 |
| Box 32, Folder 3 | Collected correspondence with Maryland Railroad Companies (Metropolitan Railroad Company, Consolidation Coal Company of Maryland, Western Maryland Railroad, Baltimore and Ohio Railroad, Annapolis and Elk Ridge Railroad, Cumberland and Pennsylvania Railroad, Baltimore and Drumpoint Railroad), 1871-1885 |
| Box 32, Folder 4 | Consolidated Gas Tank correspondence, 1894-1898 |
| Box 32, Folder 5 | Cunard Pier correspondence, 1898-1899 |
| Box 32, Folder 6 | Kanawha River correspondence, 1876-1882 |
| Box 32, Folder 7 | Kingston Water Supply correspondence, 1896-1898 |
| Box 32, Folder 8 | Potomac Power Company vs. Vanderwerken Heirs,, 1893-1900, predominantly 1899 |
| Box 32, Folder 9 | Ramapo Water Supply correspondence,, 1882-1891 |
| | |

Subseries 2.2: General Correspondence (Chronological), 1861-1901

| Box 32, Folder 10 | 1861-1869 (English and Spanish) |
|-------------------|--------------------------------------|
| Box 32, Folder 11 | 1870s (English and French) |
| Box 32, Folder 12 | 1880s (English and French) |
| Box 32, Folder 13 | 1890s (English, French, and Spanish) |
| Box 32, Folder 14 | 1890s (English, French, and Spanish) |
| Box 32, Folder 15 | 1900-1901 (English and French) |

Box 32, Folder 16 Undated (English and French)

Series 3: Personal Correspondence, 1850-1942

| Box 32, Folder 23 | Adele Gorman (English and French), 1887-1892 |
|-------------------|--|
| Box 32, Folder 24 | Deer Park,, 1888-1889 |
| Box 32, Folder 17 | Personal Correspondence, 1850-1880 |
| Box 32, Folder 18 | Personal Correspondence, 1880s |
| Box 32, Folder 19 | Personal Correspondence, 1890s |
| Box 32, Folder 20 | Personal Correspondence, 1900-1901 |
| Box 32, Folder 21 | Posthumous correspondence, 1902-1942 |
| Box 32, Folder 22 | Personal Correspondence, undated |
| Box 32, Folder 25 | Telegrams and cablegrams, 1874-1901 |

Series 4: Personal Materials, 1835-1946

Subseries 4.1: Financial Records, 1876-1901

| Box 6, Folder 1 | Bank of America special accounts book, 1891-1900 |
|-------------------|--|
| Box 30, Folder 1 | Account Books: Manhattan Trust Company, 1893-1894 |
| Box 30, Folder 2 | Account Records (with Marquise de Portes, Hudson River Tunnel, Countesse de Moltke, personal bank accounts (cash and deposit), executor accounts, tax and insurance payments), 1884-1900 |
| Box 30, Folder 3 | Banking (correspondence, financial notes, loan agreements and interest, real estate receipts, stock and bond certificates), 1883-1901 |
| Box 30, Folder 4 | Banking (statements, checks, account records, money exchanges), 1885-1901 |
| Box 30, Folder 13 | Bills and proofs of payment: professional life, 1876-1901 |
| Box 31, Folder 11 | Receipts, checks and proofs of payment: personal, 1876-1901 |
| Box 31, Folder 12 | Receipts for room and board at Angele Morello Hotel, 1889-1899 |
| Box 31, Folder 16 | Tax bills: New York, Flatbush, Montgomery County, receipts for tax payments, utility bills (Department of Public Works, New York), rebate calculation sheet, 1880-1900 |

Subseries 4.2: Estate and Real Estate Records, 1835-1921

| Box 6, Folder 2 | Benjamin Hutton Estate, map of Hutton Park, Orange, New Jersey, (2 copies),, undated |
|------------------|--|
| Box 30, Folder 5 | Benjamin Hutton Estate and heirs correspondence, (English and French), 1882-1900 |
| Box 30, Folder 6 | Benjamin Hutton Estate and heirs estate notes (notes on distribution of estate, notes on value of estate and assets, estate payments, lists of assets, travel notes), 1889-1901 |
| Box 30, Folder 7 | Benjamin Hutton Estate and heirs financial and account records (purchases, expenses, loans, property costs, mortgages, rent, income, receipts, balances, estate payments, capital, treasurer's reports, mortage accounts), 1884-1900 |
| Box 30, Folder 8 | Benjamin Hutton Estate and heirs finances (receipts of payment, loan agreements, checks, money exchanges, cable transfers, bank statements, stock reports, account book (Marquise de Portes), statement of financial conditions, security and bond notices), 1881-1900 |

| Box 30, Folder 9 | Benjamin Hutton Estate and heirs legal documents (settlement of accounts, distribution of estate, master's report, power of attorney, reports on estate assets, deeds, leases, settling of debts), 1860-1900 |
|-------------------|--|
| Box 30, Folder 10 | Benjamin Hutton Estate and heirs real estate (insurance receipts and bills, property notes, Greenwood Cemetery building notes, auction receipts, mortgage details, bills for property appraisal, property maps, mortgage assignments, notice of real estate sale, notes on real estate value, Helath Department of the City of New York notice, property drawings, declarations of sale, list of property assets), 1844-1900 |
| Box 30, Folder 11 | Benjamin Hutton Estate and heirs receipts (for goods, legal and professional services, magazine subscriptions, travel cost, postage costs), 1881-1901 |
| Box 30, Folder 12 | Benjamin Hutton Estate and heirs tax bills (Hoboken and West Orange New Jersey, New York City), 1887-1899 |
| Box 31, Folder 2 | Countess H. De Moltke-Hvitfeldt Estate (accounts, power of attorney, legacy documents, estate payments, auction receipts, debt payments, asset receipts, money exchanges, correspondence), 1878-1901 |
| Box 31, Folder 5 | Joseph Hutton Estate (financial documents, legal documents, wills, checks, insurance policies, receipts, rent and property information), 1881-1894 |
| Box 31, Folder 6 | Joseph Hutton Estate correspondence, 1885-1900 |
| Box 31, Folder 10 | Real estate documents (correspondence, receipts, property notes, insurance information, auction forms, mortgages, rent costs, leases and deeds, building codes, maps, bonds), 1835-1921 |
| Box 31, Folder 17 | Theller Estate (receipts, correspondence, property information, insurance policies, account records), 1890-1895 |
| Box 31, Folder 19 | William Rich Hutton Estate (certificate of executors, receipts, declaration of trust, estate payments, correspondence), 1901-1902 |
| Box 31, Folder 20 | William Rich Hutton, undated Notes: Museum Accession #: 327.013. |
| | |

Subseries 4.3: Other Huttons, 1874-1936

| Box 6, Folder 6 | Drawing by Frank Hutton ("Annular Torus Car by Plane"), undated |
|-------------------|---|
| Box 30, Folder 14 | Checks, Henry and Harry Hutton, 1890 |
| Box 31, Folder 3 | Frank Hutton (professional proposals, drawings, receipts, business cards, medical information), 1889-1928 |

| Box 31, Folder 4 | John Caulfield (check, receipts for car and gas), 1932-1936 |
|-------------------|--|
| Box 31, Folder 7 | Mary Hutton (wife) (receipts, insurance information, tax information, correspondence), 1874-1900 |
| Box 31, Folder 8 | Mary Hutton (daughter) (checks, correspondence), 1930-1933 |
| Box 31, Folder 15 | Tax bills, B.F. and C.H. Hutton (Hoboken, New Jersey and Brooklyn, New York), 1887-1898 |

Subseries 4.4: Personal Materials, 1878-1946

| Box 30, Folder 15 | Handwritten notes [property notes?], 1898, undated |
|-------------------|---|
| Box 31, Folder 1 | School notes (possibly written by W.R. Hutton's children), undated |
| Box 31, Folder 9 | Printed ephemera (French and English), 1878-1946 |
| Box 31, Folder 9 | Lid from jewelry box, Joseph K. Davison's Sons Manufacturing Jewelers (Philadelphia), undated |
| Box 31, Folder 9 | Merchants' Pocket Postal Guide for Foreign Mails, 1878 |
| Box 31, Folder 9 | Menu from Cie Gle Transatlantique Paquebot le Bretagne, 1893 |
| Box 31, Folder 9 | Christmas cards, 1946 |
| Box 31, Folder 13 | Religious ephemera, undated |
| Box 31, Folder 13 | Typed lines found on a Confederate bank note (poem), undated |
| Box 31, Folder 13 | Flyer for religious reading entitled "Is This the Last Generation?" (Gaithersburg, Maryland), undated |
| Box 31, Folder 14 | Sermons, undated |
| Box 31, Folder 18 | Travel documents (receipts, accounts, request for passage), 1878-1891 |

Series 5: Diaries, 1866-1901

| Box 12, Folder 1 | Diary,, 1866 |
|-------------------|-----------------|
| Box 12, Folder 2 | Diary,, 1867 |
| Box 12, Folder 3 | Diary,, 1868 |
| Box 12, Folder 4 | Diary,, 1869 |
| Box 12, Folder 5 | Diary,, 1873 |
| Box 12, Folder 6 | Diary,, 1874 |
| Box 12, Folder 7 | Diary,, 1875 |
| Box 12, Folder 8 | Diary,, 1878 |
| Box 12, Folder 9 | Diary,, 1879 |
| Box 12, Folder 10 | Diary,, 1880 |
| Box 12, Folder 11 | Diary,, [1880?] |
| Box 12, Drawer 12 | Diary,, 1881 |
| Box 12, Folder 13 | Diary,, 1882 |
| Box 12, Folder 14 | Diary,, 1884 |
| Box 13, Folder 1 | Diary,, 1885 |
| Box 13, Folder 2 | Diary,, 1886 |
| Box 13, Folder 3 | Diary,, 1887 |
| Box 13, Folder 4 | Diary,, 1888 |
| Box 13, Folder 5 | Diary,, 1889 |
| Box 13, Folder 6 | Diary,, 1892 |
| Box 13, Folder 7 | Diary,, 1893 |
| Box 13, Folder 8 | Diary,, 1894 |

| Box 13, Folder 9 | Diary,, 1895 |
|-------------------|--------------|
| Box 13, Folder 10 | Diary,, 1896 |
| Box 13, Folder 11 | Diary,, 1897 |
| Box 13, Folder 12 | Diary,, 1898 |
| Box 14, Folder 1 | Diary,, 1899 |
| Box 14, Folder 2 | Diary,, 1900 |
| Box 14, Folder 3 | Diary,, 1901 |

Series 6: Notebooks, 1860-1900

Subseries 6.1: Engineering and Survey Field Notes, 1860-1899

| · · | |
|-------------------|--|
| Box 14, Folder 15 | Survey field notes,, 1860-1863 |
| Box 14, Folder 16 | Survey field notes,, 1879 |
| Box 14, Folder 18 | Survey field notes for Hudson River Bridge, Hutton Park, and Cunard Piers),, 1898-1899 |
| Box 14, Folder 19 | Survey field notes,, undated |
| Box 14, Folder 4 | Engineering field notes,, 1863 and 1869 |
| Box 14, Folder 5 | Engineering field notes, 1869 August-1870 April |
| Box 14, Folder 6 | Engineering field notes,, 1870 |
| Box 14, Folder 7 | Engineering field notes,, 1873-1874 |
| Box 14, Folder 8 | Engineering field notes,, 1874-1886 |
| Box 14, Folder 9 | Engineering field notes,, 1877 |
| Box 14, Folder 10 | Engineering field notes (English and French), 1878 |
| Box 14, Folder 11 | Engineering field notes (Ramapo),, 1880 |
| Box 14, Folder 12 | Engineering field notes, 1882 |
| Box 14, Folder 13 | Engineering field notes (Ramapo),, 1882 |
| Box 14, Folder 14 | Engineering field notes,, 1884 |
| Box 14, Folder 17 | Engineering field notes for Morris Canal and Ramapo,, 1884-1887 |
| | *************************************** |

Subseries 6.2: Notebooks, 1871-1886

| Box 23, Folder 12 | Notebook listing drawings,, 1871-1877 |
|-------------------|---------------------------------------|
| Box 15, Folder 1 | Notebook,, 1871 |
| Box 15, Folder 2 | Notebook with sketches,, 1872 |

| Box 15, Folder 3 | Notebook,, 1878 |
|-----------------------|--|
| Box 15, Folder 4 | Notebook of railroad station distances and other calculations,, 1879 |
| Box 15, Folder 8 | Notebook about Great Falls, Virginia, water flow,, undated |
| Box 23, Folder 17 | Harlem River Bridge notebook,, 1886 September-1886 December |
| Subseries 6.3: Notes, | 1863-1900 |
| Box 15, Folder 5 | Notes on projects and inter oceanic canal (English and French), 1880-1898 |
| Box 15, Folder 6 | Notes on Pitttsfield, Massachusetts to Wiliamstown, Massachusetts,, 1881-1889 |
| Box 15, Folder 7 | Notes for experiments/tests for aqueducts,, 1886 |
| Box 15, Folder 9 | Notes on steam engines,, undated |
| Box 23, Folder 9 | Architectural elements, sketches and calculations for various projects,, 1863-1874 |
| Box 23, Folder 15 | Buffalo Reservoir, 1875-1877 |
| Box 23, Folder 19 | Calculations for Hutton Park, Continental Iron Works and Nicaraguan Canal,, 1889-1894 |
| Box 23, Folder 14 | Chesapeake and Ohio Canal, 1874-1877 |
| Box 23, Folder 10 | Drawings, calculations and an essay on navigation, Woodlands inventory,, 1863-1868 |
| Box 23, Folder 11 | Index to subjects/topics includes sketches, drawings and calculations,, circa 1870-1890s |
| Box 23, Folder 6 | [Kanawha River?] and lock gate for Appomattox,, 1874-1878 |
| Box 23, Folder 7 | [Kanawha River?] and Phoenix waterline,, 1875 |
| Box 23, Folder 8 | [Kanawha River?], 1877-1878 |
| Box 23, Folder 13 | Potomac Lock and Dock Company, 1877-1879 |
| Box 23, Folder 13 | Potomac Lock and Dock Company, 1874 October-1876 June |
| Box 23, Folder 16 | Northern Adirondack Railroad accounts,, 1882-1884 |

Box 23, Folder 18

Washington Aqueduct, Northern Adirondack Railroad, Little Rock Bridge, Wilson-Adam Dam, and Croton Bricks Works,, [1885-1900?]

Series 7: Cash Books

William R. Hutton Papers

NMAH.AC.0987

Series 7: Cash Books, 1856-1899

| Box 23, Folder 1 | Cash Book,, 1856 |
|------------------|---|
| Box 23, Folder 2 | Cash Book,, 1866-1867 |
| Box 23, Folder 3 | Cash Books, (contains two different cash books from the same year),, 1887 |
| Box 23, Folder 4 | Cash Book,, 1887 and 1889 |
| Box 23, Folder 4 | Cash Book, 1889 |
| Box 23, Folder 5 | Cash Book,, 1890 |
| Box 23. Folder 5 | Cash Book, 1899 |

Series 8: Professional Projects, 1830-1965

Subseries 8.1: Chesapeake and Ohio Canal, 1828-1965

| Map-folder 5 | Chesapeake and Ohio Canal and Incline at Georgetown. (plans, blueprints, land profiles), 1876-1878 |
|-------------------|---|
| Box 6, Folder 5 | Chesapeake and Ohio Canal and Incline at Georgetown drawings, 1876-1878 |
| Box 27, Folder 1 | Boat rates, Chesapeake and Ohio Canal, 1870-1881, undated |
| Box 27, Folder 2 | Baltimore and Ohio Railroad and Chesapeake and Ohio Canal controversy,, undated |
| Box 27, Folder 3 | Chesapeake and Ohio Canal contract corms,, 1837 and undated |
| Box 7, Folder 10 | Chesapeake and Ohio Canal Ecluse, a plan incline (drawing) (French) (rolled), undated |
| Box 27, Folder 4 | Equipment order forms, Chesapeake and Ohio Canal Incline at Georgetown, 1878 |
| Box 27, Folder 5 | Visiting French engineers' description of the Chesapeake and Ohio Canal and program of visit, undated |
| Box 27, Folder 6 | Hill vs. Chesapeake and Ohio Canal, 1867 |
| Box 27, Folder 7 | Georgetown Incline (design information), 1873-1880 |
| Box 27, Folder 8 | Incline at Georgetown (contracts, drawings, designs, data), 1874-1879 |
| Box 27, Folder 9 | Photocopied drawings of Incline at Georgetown and excerpt from publication describing drawings (pages 96-97), 1874-1878 |
| Box 27, Folder 10 | Sketches, notes, and cost estimates, Chesapeake and Ohio Canal and Incline at Georgetown,, 1877 and undated |
| Box 27, Folder 11 | Land titles on the Potomac,, undated |
| Box 27, Folder 12 | List of owners of lots occupied by the Chesapeake and Ohio Canal, 1882 |
| Box 27, Folder 13 | Microfilm, drawings of Potomac Lock and Dock and Chesapeake and Ohio Canal, made for Robert M. Vogel, Division of Mechanical and Civil Engineering,, 1965 |
| Box 27, Folder 14 | Miscellaneous business papers, Chesapeake and Ohio Canal (proposals, salaries, condition reports), 1828-1871 |

| Box 27, Folder 15 | Miscellaneous engineering notes and sketches, Chesapeake and Ohio Canal, 1869-1880 and undated |
|-------------------|--|
| Box 27, Folder 16 | Miscellaneous engineering notes, Chesapeake and Ohio Canal, 1872-1881, undated |
| Box 27, Folder 17 | Supply bills, patent bills, cost estimates, 1867-1880 |
| Box 27, Folder 18 | Notes and news articles pertaining to the Washington Canal-Chesapeake and Ohio Canal, 1871?, undated |
| Box 27, Folder 19 | Chesapeake and Ohio Canal, copy of an order issued by the Secretary of War, General McClellan, and company, 1862 |
| Box 27, Folder 19 | Main's Method of Propelling Steam Canal Boats, undated |
| Box 27, Folder 19 | Statistics of the Cumberland Coal Trade, 1876 |
| Box 27, Folder 19 | Department of Steam Boiler Inspection certificate of inspection, 1874 |
| Box 7, Folder 10 | Chesapeake and Ohio Canal Ecluse a plan incline (French) (rolled), undated |
| Box 27, Folder 19 | Chesapeake and Ohio Canal printed material, 1862-1876 |
| Box 27, Folder 20 | Reports and specifications for reform, Chesapeake and Ohio Canal, 1839-1879 |
| Box 27, Folder 21 | Specifications, Chesapeake and Ohio Canal, 1837-1841 |
| Box 27, Folder 22 | Stockholder's reports and receipt of produce, 1872-1892 |
| Box 27, Folder 23 | Water leases, Chesapeake and Ohio Canal, 1830-1870 |
| Box 27, Folder 24 | Business correspondence, Chesapeake and Ohio Canal, 1861-1870 |
| Box 27, Folder 25 | Business correspondence, Chesapeake and Ohio Canal, 1871-1872 |
| Box 27, Folder 26 | Business correspondence, Washington Canal, Chesapeake and Ohio Canal, 1871-1878 |
| Box 27, Folder 27 | Business correspondence, Chesapeake and Ohio Canal, 1873-1877 |
| Box 27, Folder 28 | Business correspondence, Chesapeake and Ohio Canal Incline at Georgetown, 1873-1893 and undated |
| Box 27, Folder 29 | Business correspondence, Chesapeake and Ohio Canal,, 1878-1882 |
| Box 27, Folder 30 | Business correspondence, Chesapeake and Ohio Canal, 1883-1895 |

| Box 27, Folder 31 | Incline at Georgetown correspondence (English and French), 1860-1899 | |
|-------------------|--|--|
| | | |

Subseries 8.2: Hudson River Tunnel, 1887-1901

| Box 27, Folder 32 | Agreements for construction,, 1891-1892 |
|-------------------|--|
| Box 27, Folder 33 | Certificates, contracts, and cost estimates,, 1891, 1893 |
| Box 27, Folder 34 | Cost estimates, Hudson River Tunnel, undated |
| Box 27, Folder 35 | Daily construction reports by Walter J. Aims,, 1889-1891 |
| Box 27, Folder 36 | Engineer notebook,, 1887-1891 |
| Box 27, Folder 37 | Engineer notebook,, 1889-1890 |
| Box 27, Folder 38 | Engineer notebook,, 1891 |
| Box 27, Folder 39 | Engineer notebook (for Walter Fox),, 1891 |
| Box 27, Folder 40 | Hudson River Tunnel miscellaneous engineering notes and sketches, 1889-1892 |
| Map-folder 9 | Hudson River Tunnel (land profiles, maps, diagrams, sketches), 1890-1891 |
| Box 6, Folder 8 | Hudson River Tunnel progress profiles, 1891 |
| Box 28, Folder 1 | Photocopy of handwritten document outlining Hudson River Tunnel project, undated |
| Box 28, Folder 3 | Proposed drawings, elevations, and plans for railway terminal (copies),, undated |
| Box 28, Folder 2 | Improved Submarine Armor and Diving Apparatus, undated |
| Box 28, Folder 2 | Construction d'un tunnel en fonte avec bouelier sous l'Hudson(French), 1891 |
| Box 28, Folder 4 | Hudson River Tunnel reports (handwritten), 1890-1891 |
| Box 28, Folder 5 | Statement of expenses,, 1889 |
| Box 28, Folder 6 | Statement of expenses,, 1890 |
| Box 28, Folder 7 | Statement of expenses,, 1891 |
| Box 28, Folder 8 | Statement of expenses,, 1892 |
| Box 28, Folder 9 | Hudson River Tunnel correspondence, 1889 |

| Box 28, Folder 10 | Hudson River Tunnel correspondence,, 1890 |
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| Box 28, Folder 11 | Hudson River Tunnel correspondence, 1891 |
| Box 28, Folder 12 | Hudson River Tunnel correspondence, 1892 |
| Box 28, Folder 13 | Hudson River Tunnel correspondence, 1893-1895 |
| Box 28, Folder 14 | Hudson River Tunnel correspondence, 1897-1901 |

Subseries 8.3: Printed Materials with an Unknown Author, 1852-1903

| Box 3, Folder 1 | "Address by Mansfield Merriman," (Folder also contains a letter to Hutton in reference to the document), 1894 |
|------------------|---|
| Box 3, Folder 2 | Amelioration des Rivieres Fond Mobile (French), undated |
| Box 3, Folder 3 | Annapolis Water Company, 1867 |
| Box 3, Folder 4 | Annapolis Harbor and Patapsco River, 1879 |
| Box 3, Folder 5 | "Annapolis Harbor and Patapsco River Letter from the Secretary of War,", 1879 |
| Box 3, Folder 6 | Annual Report of the Syracuse Water Board, 1896 |
| Box 3, Folder 7 | Annual Report of the Water Department of the City of Baltimore (two copies), 1859 and 1869 |
| Box 3, Folder 8 | "Aqueduct CommissionersEngineering Department Monthly Estimate,", undated |
| Box 3, Folder 9 | Journal of the Association of Engineering Studies, V. XIII, no. 2, 1894 |
| Box 3, Folder 10 | Ausbau des Wasserstrassen (German), 1875 |
| Box 3, Folder 11 | "Brief on Behalf of the Ramapo Water Company,", 1895 |
| Box 3, Folder 12 | Buffalo Trunk Sewer Specifications, 1883 |
| Box 3, Folder 13 | Charter of the Baltimore and Drum Point Railroad Company and also, Amendment to the Charter, 1872 |
| Box 3, Folder 14 | "Circular of the Office of the Chief of Engineers,", 1881 |
| Box 3, Folder 15 | The Club: A Journal of Club Life for Men and Women, 1894 |
| Box 3, Folder 16 | Coal and Iron Railway Company Statement, Maps, and Engineer's Report, 1882 |

| Box 3, Folder 17 | Concerning the Preservation of Iron and Steel Structures, 1891 |
|------------------|---|
| Box 3, Folder 18 | Congres International des Methodes d'Essai des Materiaux de Construction, 1900 |
| Box 3, Folder 19 | "VIII Congres International de Navigation,", 1900 |
| Box 3, Folder 20 | ContractSpecifications and Proposals for Water SupplyJersey City, 1896 |
| Box 3, Folder 21 | Control of the Flow of the Danube Between the Molday and the Turn-Severin, 1880 |
| Box 3, Folder 22 | Construction of the New Seawall at the U.S. [sic] Naval Academy, 1898 |
| Box 3, Folder 23 | Le Correspondant, 1894 |
| Box 3, Folder 24 | Court of Claims: Alfred Pasqueau vs. U.S [sic], undated |
| Box 3, Folder 25 | The Croton Water Supply and its Extensions, 1880 |
| Box 3, Folder 26 | Printed copy of Court of Appeals of the State of New York Case of John O'Brien and Herman Clark vs. the Mayor of New York, 1893 |
| Box 3, Folder 27 | Department of DocksNew York, 1895 |
| Box 3, Folder 28 | Differences in cost between the American System of Mechanical Filtration and the European Plan of Sand Filtration (Albany), 1897 |
| Box 3, Folder 29 | Disposal of Sewage, undated |
| Box 3, Folder 30 | Drawings of Movable Dams, Belgium (6 drawings), 1878 |
| Box 3, Folder 31 | Druid Lake Reservoir, 1868 |
| Box 3, Folder 32 | East Branch Reservoir, 1888 |
| Box 3, Folder 33 | Form of Notice, Proposal, Contract and Specifications for Constructing the Steel Cables, Suspenders, Etc. of the East River Bridge, 1899 |
| Box 3, Folder 33 | Sketches of construction and locations of elements, 1896 |
| Box 3, Folder 33 | Form of Notice, Proposal, Contract, and Specifications for Constructing the Steel Towers and End Spans of the New East River Bridge, 1899 |
| Box 3, Folder 33 | Form of Notice, Bid, Contract, Bond and Specifications for Constructing the Steel and Masonry Approach on the Manhattan Side of the New East River Bridge, 1900 |
| Box 3, Folder 34 | Eastern Canal (French), 1878 |

| Box 3, Folder 35 | Eastern Canal, drawings), 1878 |
|------------------|---|
| Box 3, Folder 36 | El Comandante en Gefe de la Division Robles a sus Conciudadanos (Spanish), 1853 |
| Box 3, Folder 37 | Etat des Outils, Instruments et Produits en Usage pour le Service du Nattoiement de la voie Publique et des Halles et Marches (French), undated |
| Box 3, Folder 38 | Experiments in Water Filtration at St. Laus, 1897 |
| Box 3, Folder 39 | "Form of Contract for Building the Jerome Park Reservoir,", 1895 |
| Box 3, Folder 40 | Illustrations of Vessels Built by Lobnitz and Company, Limited, 1901 |
| Box 3, Folder 41 | Improvements of the Ohio River, Letter for Secretary of War, 1874 |
| Box 3, Folder 42 | Improvement of Rivers, 1893 |
| Box 3, Folder 43 | 8th International Congress of Island Navigation, 1900 |
| Box 3, Folder 44 | International Maritime Congress, 1893 |
| Box 3, Folder 45 | James River Improvement Committee, 1878 |
| Box 3, Folder 46 | Joint Standing Committee on Water of the City Council (Baltimore), 1855 |
| Box 3, Folder 47 | Jones Falls, 1868 |
| Box 3, Folder 48 | Journal of the Association of Engineering Studies, Vol. XIII, 1894 |
| Box 3, Folder 49 | Journal of the Franklin Institute, Vol. CXXXVII, no. 819, 1894 |
| Box 3, Folder 50 | Kingston New Water Supply, undated |
| Box 3, Folder 51 | Kinipple's Rolling Gate for Locks, Dock, etc, 1878 |
| Box 3, Folder 52 | Laying Water Pipe, 1896 |
| Box 3, Folder 53 | Leading Engineers and Naval Architects, undated |
| Box 3, Folder 54 | Les Installations Maritimes Belges (French), 1900 |
| Box 3, Folder 55 | Les Puits Artesiens, undated |
| Box 3, Folder 56 | Main Drainage and Water Supply, 1885 |
| Box 3, Folder 57 | Metropolitian Water Board, 1896 |
| | |

| Box 3, Folder 58 | Metropolitian Water Board, 1897 |
|------------------|---|
| Box 3, Folder 59 | "Mobile and Dauphin Island Railroad and Harbor Company Mortgage and Coupons,", 1887 |
| Box 4, Folder 1 | I. La Mulatiere Drawings of Locks and Related Installations (ten items), 1877 |
| Box 4, Folder 2 | II. La Mulatiere Drawings of Locks and Related Installations, (seven items), 1877 |
| Box 4, Folder 3 | "Aqueduct Commission to Contractors,", 1884 |
| Box 4, Folder 3 | Section A of the New Croton Aqueduct, 1884 |
| Box 4, Folder 3 | Section 16 of the New Croton Aqueduct, 1888 |
| Box 4, Folder 3 | Form of Contract for Building the New Croton Dam on Croton River, at Cornell Site, 1892 |
| Box 4, Folder 10 | New York Filter MFG Co. vs. Niagara Falls Waterworks Company, 1896 |
| Box 4, Folder 11 | New York Harbor, 1884 |
| Box 4, Folder 12 | "Notice-Nettoiement-Vole Publique,", 1876 |
| Box 4, Folder 13 | Philadelphia Water, undated |
| Box 4, Folder 14 | Plans for the Improvement of Ohio River, 1880 |
| Box 4, Folder 15 | Present and Proposed Supply (Water?) for (Pennsylvania?), circa 1880 |
| Box 7, Folder 4 | Excerpt from "Les Annales des Travaux Publics," (pages 985-992) (French), undated |
| Box 7, Folder 4 | "Barrages de Poses: Barrages a Rideaux Soutenus par des Parties Mobiles Suspendues a unde Poutre Superieure," (French) (two copies), 1883 |
| Box 7, Folder 4 | "Souterrain des Cabanes: Ligne de Montauban a Brive Section de Cahors a Souillac," (French) (two copies), 1884 |
| Box 7, Folder 4 | Excerpt from "The Electrical World,", 1888 |
| Box 7, Folder 4 | "Chemin de fer du St. Gothard" (French), undated |
| Box 7, Folder 4 | "Types de Barrages" (French), 1884 |
| Box 7, Folder 4 | "Le Chemin de fer de L'Arlberg," (French), 1884 |

| Box 7, Folder 4 | Printed map of a [college?], drafted by Waring, Chapman and Farquhar, Civil Engineers, undated |
|------------------|---|
| Box 7, Folder 4 | Automatic Flush Tank, (drawing), undated |
| Box 7, Folder 4 | Receiving Basin (drawing), undated |
| Box 7, Folder 4 | Institution of Civil Engineers membership certificate, 1890 |
| Box 7, Folder 4 | Pr. [print?] 4 [Cabon?] John (printed photo), undated |
| Box 7, Folder 4 | "Die Gailflussregulirung Situation der Regulirungsstrecke Wetzmann-Hofling (German), undated |
| Box 7, Folder 4 | "Map of Leadville Mining District in Lake and Park Counties, Colorado,", undated |
| Box 7, Folder 4 | "Les Ports Maritimes de L'Amerique du Nord sur L'Atlantique,", 1898 |
| Box 7, Folder 4 | Map of Greenwood Cemetery, 1888 |
| Box 7, Folder 4 | "Crystal Springs Dam," (San Francisco), 1887 |
| Box 7, Folder 4 | Chevalier, Michel, "Histoire et Description des Voies de Communication aux Etats- Unis et des Travaux d'art qui en dependent,", 1860 |
| Box 7, Folder 5 | "Brookyn Pumping Engines,", undated |
| Box 7, Folder 5 | "General Map and Details of Main Relief Sewer Section 1,", 1889? |
| Box 7, Folder 5 | "Pipe Sewers Running Full,", undated |
| Box 7, Folder 5 | "Drainage Area of Rock Creek" (Maryland), undated |
| Box 7, Folder 5 | "Diagram of Volume Reaching Sewers and Diagram of Capacities of Sewers,", undated |
| Box 4, Folder 16 | Proceedings of the National Good Roads Convention, 1903 |
| Box 4, Folder 17 | Projei D'assaimmissemem Ville du Haure Systeme Waring(French), 1884 |
| Box 4, Folder 18 | "The Ramapo Water Contract,", 1899 |
| Box 4, Folder 19 | Register of the Rensselaer Polytechnic Institute, 1882-1883 |
| Box 4, Folder 20 | Regulations of the Graving Docks,, undated |
| Box 4, Folder 21 | Report of the Architect of Public Buildings, 1852 |

| Box 4, Folder 22 | Report of the Baltimore Water Department, 1863 |
|------------------|--|
| Box 4, Folder 23 | Report of the Board of Engineers Upon Changing the Course of Jones' Falls, 1868 |
| Box 4, Folder 24 | Report of the Board of Engineers Upon New York and New Jersey Bridge, 1894 |
| Box 4, Folder 25 | Report of the Commission for the Construction of the Congressional Library Building, 1888 |
| Box 4, Folder 26 | Report of the Commissioners and Chief Engineer of the Charlestown Waterworks, 1865 |
| Box 4, Folder 27 | Report on Designs for a Memorial Bridge Across the Potomac River, at Washington, D.C., 1900 |
| Box 4, Folder 28 | A Report of a Plan for Supplementing the Croton Water Supply to the City of New York from the Ramapo District, 1882 |
| Box 4, Folder 29 | Report of the Sewage Commission, Baltimore, 1862 |
| Box 4, Folder 30 | Report of the State Engineer, 1880 |
| Box 4, Folder 31 | Report of the State Engineer to the Legislature of the State of California-Session of 1880, 1880 |
| Box 4, Folder 32 | "Report of State of Water Supply of New Jersey,", 1884 |
| Box 4, Folder 33 | Report of the Survey to Determine the Crest Lines of the Falls of Niagara in 1890 (loose leaf excerpt from a larger publication, pages 95-118), 1890 |
| Box 4, Folder 34 | Report and Plans for a Supply of Water for City of Norfolk, 1871 |
| Box 4, Folder 35 | Resolutions of Board of Trade and Other Organizations, [1892?] |
| Box 4, Folder 36 | Revue Generale des Chemins de Fer (French), 1882 |
| Box 4, Folder 37 | Sanitary District of Chicago, 1896 |
| Box 4, Folder 38 | Sediment Transported by River Waters (chart), undated |
| Box 4, Folder 39 | South Brunswick Terminal Railroad Company; South Brunswick and Cordele Railroad Company, undated |
| Box 4, Folder 40 | Specifications for Building the Marine Hospital at Cincinnati, Ohio, 1856 |
| | |

| Box 4, Folder 42 | "Street Cleaning in New York," From City Government (excerpt), 1896 |
|------------------|---|
| Box 4, Folder 43 | Sur un Systeme de Barrage Mobile, (French), undated |
| Box 4, Folder 44 | Surveys for Continuous Canal Connecting Lake Erie with the Ohio River, undated |
| Box 5, Folder 1 | Survey of Elk River, West Virginia, 1875 |
| Box 5, Folder 2 | System of Sewage Disposal for Isolated Houses, undated |
| Box 5, Folder 3 | "Test of Metals Letter from Secretary of War,", 1881 |
| Box 5, Folder 4 | Treatise on Water Purification for Cities and Towns, 1897 |
| Box 5, Folder 5 | United States Engineer's Office, 1882 |
| Box 5, Folder 6 | Verslag aan den Koning over de Openbare Werken in Het Jaar 1884 (German), 1885 |
| Box 5, Folder 7 | Water Department ReportBaltimore, 1875 |

Subseries 8.4: Harlem River Bridge, 1878-1892

| Map-folder 6 | W.R. Hutton, C.C. Schneider, F.A. Leers, E.B. Van Winkle, Jackson Architectural Works, [S. Rouebock ?], Harlem River Bridge blueprints I,, 1886-1888, |
|-----------------|---|
| Map-folder 7 | W.R. Hutton, C.C. Schneider, F.A. Leers, E.B. Van Winkle, Jackson Architectural Works, [S. Rouebock ?], Harlem River Bridge blueprints II,, 1886-1888 |
| Box 6, Folder 7 | Harlem River Bridge blueprints, 1886-1888 |
| Map-folder 8 | W.R. Hutton, John Bogart, Harlem River Bridge,, 1886-1892 |
| Box 8, Folder 1 | Harlem River Bridge photographs, 1887 April 3 to 1888 May 18 |
| Box 8, Folder 2 | Harlem River Bridge photographs (brick and cement work), undated |
| Box 8, Folder 3 | Harlem River Bridge photographs (men at work), undated |
| Box 8, Folder 4 | Harlem River Bridge photographs, (steel work), undated |
| Box 8, Folder 5 | "The Washington Bridge," (printed photograph plates), 1887, undated |
| Box 24 | Photograph album Harlem River Bridge, Poughkeepsie Bridge, Cairo (New York), Hudson River Tunnel (albumen and cyanotypes), 1887-1888 |

| Box 28, Folder 15 | Harlem River Bridge engineer's estimates, 1886 August-1889 January |
|-------------------|--|
| Box 28, Folder 16 | The Washington Bridge Over the Harlem River, New York, 1891 |
| Box 28, Folder 16 | The Washington Bridge: A Description of its Construction, undated |
| Box 28, Folder 16 | Is the New Washington Bridge Safe?, 1889 |
| Box 28, Folder 16 | Hurrying Work on the Bridge, 1889 |
| Box 28, Folder 16 | The New Manhatten Bridge, 1889 |
| Box 28, Folder 16 | World's Fair, 1889 |
| Box 28, Folder 16 | The Washington Bridge over the Harlem River, at 181st Street, New York City. A Description of its Construction, 1889 |
| Box 28, Folder 16 | The Washington Bridge, A Book which Describes the Beauties of the Magnificent Structure, 1892 |
| Box 28, Folder 16 | The Last New Bridge, undated |
| Box 28, Folder 16 | Washington Bridge, 1889 |
| Box 28, Folder 16 | Looks Like a Big Job, 1888 |
| Box 28, Folder 16 | Work on the New Harlem Bridge, 1887 |
| Box 28, Folder 16 | New Publications: Washington Bridge, 1891 |
| Box 28, Folder 16 | A Bit of Inside History: Deals Over Contracts for Constructing the Harlem River Bridge, 1888 |
| Box 28, Folder 16 | Don't Know Myles Tierney?, undated |
| Box 28, Folder 16 | Sincures Indeed!, 1891 |
| Box 28, Folder 17 | Schedules, costs, reports, proposals, contracts, specifications, 1886-1889 |
| Box 28, Folder 18 | Harlem River Bridge printed photograph Plates, undated |
| Box 28, Folder 19 | Harlem River Bridge correspondence, 1878-1889 |
| Box 28, Folder 20 | Harlem River Bridge correspondence, 1886-1889 |
| Box 28, Folder 21 | Harlem River Bridge correspondence, 1886-1897, 1887-1889 |
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| Box 28, Folder 22 | Harlem River Bridge correspondence, 1887-1889 |
|-------------------|---|
| Box 28, Folder 23 | Correspondence with Malcolm W. Niver, Secretary, Harlem River Bridge Commission, 1886-1897, 1886-1889 |
| Box 7 | Washington Bridge, Tests of Steel and Iron, 1886-10-1888 |

Subseries 8.5: Other Projects, 1858-1932

| Box 9, Folder 3 | Profile of line, Annapolis Water Company (rolled), undated |
|-------------------|--|
| Box 28, Folder 25 | Annapolis Water Company report on boiler and engine pamphlets on water use and charges for Annapolis and Philadelphia, 1866 |
| Map-folder 1 | Annapolis Water Company (profiles, drawings), 1880 |
| Box 28, Folder 26 | Baltimore Beltline (Baltimore and Ohio Canal) (sketches, measurements, engineering data, estimates), 1891-1895 |
| Box 28, Folder 27 | Baltimore and Drum Point Railroad Company, initiation of organization and construction of railroad (correspondence, contracts, specifications), 1873 |
| Box 28, Folder 29 | Baltimore and Ohio Railroad notes, 1861-1883 |
| Box 6, Folder 3 | Blueprints, 1877-1922 |
| Map-folder 2 | Blueprints,, 1884-1922 |
| Box 28, Folder 28 | Boston and Baltimore Tunnels, (letters-Boston Tunnel, maps, Old Union Tunnel, Baltimore), 1876-1900 |
| Box 29, Folder 1 | Church architecture (sketches), undated |
| Box 6, Folder 4 | Church architecture (sketches, plans, drawings, printed photographs), undated |
| Map-folder 3 | Church architecture (sketches, drawings), 1901 |
| Box 7, Folder 11 | "3% and 4% Lines through Ute Pass Colorado Midland Railway," Drawn for W.R. Hutton (rolled), undated |
| Map-folder 4 | Colorado Midland Railroad Bridges (Ruxton Creek) (land sketches, Blueprints by Morse Bridge Company), 1885-1896 |
| Box 7, Folder 6 | Conduit Appurtenances, 1892 |
| Box 29, Folder 2 | Consolidated Coal Company map (Maryland), undated |

| Box 29, Folder 3 | Consolidated Gas Company Tank plans, settlement and account record (not complete),, 1893-1898 |
|-------------------|--|
| Box 29, Folder 4 | Copies of maps filed by Scranton and Forest City Railroad, (8 copies), undated |
| Box 29, Folder 5 | Cooper Lake drawings and drawing descriptions,, undated |
| Box 29, Folder 6 | Cornices (reference photos and sketches), 1893 |
| Box 29, Folder 7 | Cox's Dam, water supply, undated |
| Box 29, Folder 8 | Cunard Pier, plans, proposal, cost estimates, bills, 1898-1899 |
| Box 29, Folder 9 | Supplies required for Deer River Bridge, undated |
| Box 29, Folder 10 | Dismal Swamp Canal (proposal, abstract, calculations), 1872 |
| Box 7, Folder 6 | Oak Ridge Gate House, 1892 |
| Box 7, Folder 6 | Macopin Intake Details, 1892 |
| Box 7, Folder 6 | Conduit Structures, 1892 |
| Box 7, Folder 6 | Conduit Appurtenances: Details of Air Valves, 1892, |
| Box 7, Folder 6 | Venturi Water Meter, 1892 |
| Box 7, Folder 6 | Superstructure of Gate Houses at Newark Reservoirs, 1892 |
| Box 7, Folder 6 | Conduit Details, 1892 |
| Box 7, Folder 6 | Discharge Diagrams, 1892 |
| Box 7, Folder 6 | Map of Watershed and Pipe Line, 1892 |
| Box 29, Folder 11 | Florida Ship Canal and Dam of Suwanee (water supply, filtration, leakage, cost estimates, measurements, drainage, supplies, sketches), undated |
| Box 29, Folder 12 | French Projects, Artesian well at Grenelle, Paris water supply,, undated |
| Box 29, Folder 13 | Copied report on Gracles Sewers of Washington, 1873 |
| Box 29, Folder 14 | Investigation of defective brick work, Baltimore City College building (sketches, correspondence, reports of the investigation), 1897 |
| Box 29, Folder 15 | Kanawha River Canal, (sketches, dam calculations, estimates, bills, measurements, notes) (English and French), 1876-1878 |

| Box 6, Folder 9 | Kanawha River Canal plans, maps, printed material, undated |
|-------------------|---|
| Map-folder 10 | Kanawha River Canal (engineering drawings, land profiles, printed material by C.K. McDermott and Albert M. Campbell), 1877-1893 |
| Box 29, Folder 22 | Kingston Water Supply (bids for filters, surveys, engineering notes), 1896-1897 |
| Box 29, Folder 21 | Kingston Water Supply (report to commission, water analysis, contracts, prices), 1896 |
| Box 29, Folder 20 | Kingston Water Supply financial records, 1896 |
| Box 29, Folder 19 | Kingston Water Supply, agreements for work, drawings, water rules, regulations, and rates, 1896-1898 |
| Box 29, Folder 18 | Kingston Water Supply, news clippings and ephemera (water rules card), 1897 |
| Box 29, Folder 17 | Installation of filter at Kingston Waterworks, 1896-1897 |
| Box 29, Folder 16 | Kingston Water Supply (correspondence, proposals, notebook, water analysis certificate), 1882-1898, 1886 |
| Box 11, Folder 6 | Kingston Water Supply, profile of pipeline from reservoir number 2 (rolled), undated |
| Box 11, Folder 5 | Sagandorf, W.A., Kingston Water Supply map and profile pipeline reservoir number 1 to number 2 (rolled), undated |
| Box 11, Folder 4 | Kingston Water Supply, profile of creek crossing on pipeline (rolled), 1897 |
| Box 11, Folder 3 | Kingston Water Company, contour map of reservoir number 2 (rolled), undated |
| Box 11, Folder 2 | Kingston Water Company, profile of Esopus Creek (rolled), undated |
| Box 10, Folder 5 | Kingston Water Supply trench profiles, (3 sheets) (rolled), undated |
| Box 10, Folder 4 | Kingston Water Supply, changed pipeline station 35 to 44 (rolled), 1897 |
| Box 9, Folder 8 | Kingston Water Company, land profile (rolled), undated |
| Box 9, Folder 6 | Profile of Kingston Water Company's pipeline (rolled), 1896 |
| Box 9, Folder 4 | Kingston New Water Supply, profile of 20 inch pipeline between reservoirs 1-2 (rolled), 1896-1897 |
| Map-folder 11 | Kingston Water Supply (blueprints, maps, printed material, hand drawn profiles), 1898-1899 |

| Box 29, Folder 23 | Johnson's Bend, drawings and supplies, undated |
|-------------------|--|
| Map-folder 12 | Lake Roland Reservoir photostat, [1860?] |
| Box 24, Folder 24 | Report on lifting locks, undated |
| Box 29, Folder 25 | Little Rock Bridge, dimensions, undated |
| Map-folder 13 | "Machine storage and cattle barn," plans for Mary Hutton, Charles W. Stang, architect, 1932 |
| Box 28, Folder 24 | Map of air and calder navigation-England, 1875 |
| Box 29, Folder 26 | Memorial Bridge (photocopies of newspaper clippings, photograph of perspective design, correspondence), 1899-1901 |
| Box 6, Folder 10 | Memorial Bridge (maps, sketches, printed photographs), undated |
| Map-folder 14 | Memorial Bridge (sketches), undated |
| Box 29, Folder 27 | Mersey Tunnel (notes and calculations), [189?] |
| Box 29, Folder 28 | Mexican National Construction Company engineering notes on conducting transportation, 1883 and undated |
| Box 7, Folder 1 | Miscellaneous municipal drawings, 1882-1896 |
| Box 7, Folder 2 | Miscellaneous residential drawings of Hutton properties(?),, undated |
| Map-folder 16 | Miscellaneous residential drawings of Hutton properties(?), H.J. Hardenbergh, architect (English and French), undated |
| Box 29, Folder 29 | Morris Canal, Newark Water Supply (newsclippings, correspondence, water analysis reports, measurements, cost projections), 1887-1888 |
| Box 29, Folder 30 | Navigation of Columbia Railroad from Dalles to Celilo (correspondence), 1892-1893 |
| Box 29, Folder 31 | Navigation of the Columbia Railroad from Dalles to Celilo (reports, cost estimates), 1892-1893 |
| Box 29, Folder 32 | Navigation of Columbia Railroad from Dalles to Celilo (freight plans, engineering data, organization proceedings), 1881-1893 |
| Map-folder 17 | New York City (blueprints, plans), 1897 |
| Box 7, Folder 3 | New York City (maps, printed materials), 1897 |

| Box 29, Folder 33 | Noord and Lek Dykes, copied abstract from inspection report, undated |
|-------------------|---|
| Box 29, Folder 34 | Northern Adirondack Railroad Company cost estimates, bills, and contracts,, 1882-1883 |
| Box 29, Folder 35 | Northern Adirondack Railroad Company engineering sketches, notes, calculations, and work estimates, 1883 |
| Box 29, Folder 36 | Northern Adirondack Railroad Company correspondence, 1881-1883 |
| Box 29, Folder 37 | Northern Adirondack Railroad Company, contract agreements, 1883 |
| Box 9, Folder 7 | Northern Adirondack [Railroad?], St. Regis Falls-North to Aldberg (rolled), 1882 |
| Box 29, Folder 38 | Panama Canal, description of lock gates, sea level, calculations, report, 1879-1880 |
| Box 29, Folder 39 | Piedmont Bridge, notes and calculations, undated |
| Box 29, Folder 40 | Pittsfield and Williamstown Railroad (notes, correspondence, legal documents, survey results, cost estimates, contracts), 1881 |
| Box 29, Folder 41 | Lease of Potomac River Canal land (renewal of previous lease), 1871 |
| Box 10, Folder 1 | Profile of Jones Falls (rolled), 1874 |
| Box 10, Folder 3 | Profile of Location from Station 3278 to 3570, International Railroad and S.S. Company [sic] (rolled), undated |
| Box 10, Folder 7 | Number 2 profile of location from Station 814 to 1510, (International Railroad of Florida and S.S. Company [sic]) (rolled), undated |
| Box 10, Folder 6 | Profile showing land contours (rolled), undated |
| Map-folder 19 | St. Mary's Canal (printed maps and photographs), 1878-1882 |
| Box 29, Folder 42 | Railroad engineering and financial data (Ruxton Viaduct, D. and R.G. [sic] Crossing, miscellaneous), 1873-1892 |
| Box 29, Folder 43 | Ramapo Water Supply (reviews, reports, news clippings, measurements, estimates, and sketches), 1883-1888 |
| Box 7, Folder 7 | Ramapo Water Company profiles, maps, undated |
| Map-folder 20 | Ramapo Water Company (maps, cross sections), 1891 |
| Box 29, Folder 44 | Riding rates of freights on coal (Baltimore to Coasturss rate), (Georgetown to Coasturss rate), 1881 |

| Box 7, Folder 8 | Roland Lake Reservoir photostats, 1858-1885, 1860 |
|-------------------|---|
| Box 29, Folder 45 | Ruxton Creek Bridge, Colorado Midland Railway Company, and Morse Bridge Company (technical plans and sketches, correspondence, notes, contract forms and cost estimates), 1885-1888 |
| Box 29, Folder 46 | Severn Railway, notes and history (Gloucestershire, England), 1880 |
| Box 29, Folder 47 | St. John Church lots, (Washington, D.C.), undated |
| Box 29, Folder 48 | St. Gothard Canal (notes and calculations) (Port Said, India), 1880-1889 |
| Box 29, Folder 49 | Suez Canal (notes and measurements), undated |
| Box 29, Folder 50 | Takoma steel tower and tank Chicago Bridge and Iron Company (blueprints, calculations), 1900-1901 |
| Box 29, Folder 51 | Tansa Dam, Mumbai, India (notes and design proposal), 1893 |
| Box 29, Folder 52 | Washington Aqueduct (correspondence, specifications, progress reports, technical sketches), 1855-1899 |
| Box 7, Folder 9 | Washington Aqueduct plans and printed maps, undated |
| Map-folder 21 | Washington Aqueduct, (plan), undated |
| Box 11, Folder 1 | Western Maryland Railroad, calculations of cuts and fills, (16 sheets) (rolled), undated |
| Box 10, Folder 8 | Western Maryland Railroad, railroad profile, Baltimore end (rolled), undated |
| Box 10, Folder 2 | Western Maryland Railroad, railroad cut in Baltimore (rolled), undated |
| Box 9, Folder 5 | Western Maryland Railroad, profile of cuts and fills, Baltimore Division (rolled), undated |
| Box 9, Folder 2 | Western Maryland Railroad, profile of cuts and fills (rolled), undated |
| Box 9, Folder 1 | Western Maryland Railroad, Profile of Hagerstown Williamsport (rolled), undated |

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| Box 5, Folder 54 | Notes on European canals (Ecluse de la Monnaie, Canal St. Martin, Bassin de la Villette, Cofferdam, La Haye, Canal de l'est, Canal St. Quentin, London, Chatham, and Diver Railway) (English and French), 1878 |
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| Box 2, Folder 35 | Phelps, Earle Bernard. Prevention of Steam Pollution by Strawboard Waster, 1906 |
| Box 2, Folder 36 | Schuyler, M. Use of Asphaltum for Reservoir Linings, undated |
| Box 2, Folder 37 | Sickels, T.E. Report of Supply of Water for Baltimore, 1859 |
| Box 2, Folder 38 | Smith, William Sooy. Progress of Engineering and Improvements Needed in Chicago, 1893 |
| Box 2, Folder 39 | Soper, George Albert. Report of the Efficiency and Betterment of the Hudson City Filter Plant, 1895 |
| Box 2, Folder 40 | Starling, William. Keeping the Mississippi Within her Banks, 1891 |
| Box 2, Folder 41 | Stearns, F.P. "American Society of Civil Engineers Experiments on the Flow of Water in a 48 inch Pipe,", 1894 |
| Box 2, Folder 42 | Tappan, Charles. Irrigation from the Yellowstone River, 1894 |
| Box 2, Folder 43 | Taylor, Thomas U. Water Powers of Texas, 1904 |
| Box 2, Folder 44 | Tratman, E.E. Russell. Report on the Use of Metal Railroad Ties and on Preservative Processes and Metal Tie-Plates for Wooden Ties, 1894 |
| Box 2, Folder 45 | Trautwine, John. Circular Descriptive of "Journal of the Association of Engineering Societies," (two copies with letter to Hutton from Trautwine describing the circular), 1895 |
| Box 2, Folder 32 | Twining, J.S. Potomac River Front, 1879 |
| Box 2, Folder 46 | Verne, Henri. Le Rhone a Marseille (French), 1878 |
| Box 2, Folder 47 | Waller, Logan. The Selection of Materials for Macadam Roads, 1900 |
| Box 2, Folder 48 | Wariny, George. Buffalo Trunk Sewer, 1883 |
| Box 2, Folder 49 | Waring, George E. De Rioleering Van Den Haag (German), undated |
| Box 2, Folder 50 | Waring, George. Memphis Sewers, undated |
| Box 2, Folder 51 | Waring, George A. Proper Disposal of Sewage, 1896 |
| Box 2, Folder 52 | Waring, George. Purification of Sewage, undated |

| Box 2, Folder 53 | Waring, George E. Purification of Sewage by Forced Aeration, undated |
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| Box 2, Folder 54 | Waring, George. Sewage Disposal, 1892 |
| Box 2, Folder 55 | Waring, George E. Sewage Disposal at Wayne, P.A. [sic], 1892 |
| Box 2, Folder 56 | Waring, George.Sewage of Two New Hampshire Towns, undated |
| Box 2, Folder 57 | Westen, Edmund B. Report of the Results Obtained with Experimental Filters at the Pettaconset Pumping Station of Providence Water Works, 1896 |
| Box 2, Folder 58 | Winans, Ross. Minority Report to Examine Sources from which a Supply of Pure Water May be Obtained (Baltimore), 1853 |

Subseries 9.3: Newspaper Clippings, 1855-1901

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| Box 4, Folder 4 | "Baltimore American", 1867 |
| Box 4, Folder 4 | "The Drum Point Railroad Again,", 1874 |
| Box 4, Folder 4 | Consolidation Coal Company and Cumberland and Pennsylvania Railroad Company vs. the Pennsylvania Railroad Company in Maryland, 1879 |
| Box 4, Folder 4 | "Railroads, Western Maryland Railroad Company,", 1875 |
| Box 4, Folder 4 | "Points of Pending Suits in Relation to the River Front ecetera,", 1880 |
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| Box 4, Folder 4 | "Metropolitan Railroad,", 1855 |
| Box 4, Folder 4 | "A Costly Bridge that Nobody Uses" (Harlem River Bridge), 1889 |
| Box 4, Folder 4 | "Who Read this Page Without Laughing,", 1885 |
| Box 4, Folder 5 | Newspaper Clippings, 1873-1901 |
| Box 4, Folder 5 | "Western Crop Prospects, Lumber Trade Situation, Missouri Pacific Plans,", 1900 |
| Box 4, Folder 5 | "The North Avenue Bridge Question,", 1901 |

| Box 4, Folder 5 | "The Bridge Terminal Problem,", 1901 |
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| Box 4, Folder 5 | "Build the Canal" (Nicaraguan Canal), 1894 |
| Box 4, Folder 5 | The Railroad Gazette, 1892 |
| Box 4, Folder 5 | "The City's Topographical Map,", 1892? |
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| Box 4, Folder 5 | "Will Save Millions" (Nicaraguan Canal), 1894 |
| Box 4, Folder 5 | "Will Save Millions" (Nicaraguan Canal), 1894 |
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| Box 4, Folder 5 | "The Nicaragua Canal Issue,", 1894 |
| Box 4, Folder 5 | "Belt Tunnel Suit,", 1892 |
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| Box 4, Folder 5 | "The Spring Field BridgeA Reply to Mr. Philbrick,", 1875 |
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| Box 4, Folder 5 | "The Development of Tunnel Shields,", 1896 |
| Box 4, Folder 5 | "Plates of Uniform Strength,", 1895 |
| Box 4, Folder 5 | "Water Works Question Discussed,", 1882 |
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| Box 4, Folder 5 | "Deep Sea Harbor in Southern California,", 1896 |
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| Box 4, Folder 5 | "Annual Statement on Imports and Exports,", 1880 |
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| Box 4, Folder 6 | Scrapbook of newspaper clippings (docks, Drum Point, Bridge building, Board Tree Tunnel, Chesapeake and Ohio Canal, Washington Canal, harbor notes, Kanawha River Canal, Great Falls, Kingwood Tunnel, Georgetown locks, Pinjointed Bridge vs. Lattice Bridge, Springfield Bridge), 1877-1888 |
| Box 4, Folder 6 | "Mr. Bender's Rejoiner" (Springfield Bridge), 1875 |
| Box 4, Folder 6 | "General Railroad News,", 1875 |
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| Box 4, Folder 6 | "The Coming Railroad Conventions,", 1875 |
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| Box 4, Folder 6 | "Working the Temporary Steep Gradients on the Baltimore and Ohio,", 1874 |
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| Box 4, Folder 7 | "The River Weaver Navigation and the Manchester Ship Canal,", 1894? |

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| Box 4, Folder 8 | "Hudson Tunnel Railway,", 1892 |
| Box 4, Folder 8 | "Put a Lien on the Tubes" (Hudson Tunnel Railway), 1892 |
| Box 4, Folder 8 | "This May Wind Up the Tunnel Company,", 1892 |
| Box 4, Folder 8 | "Says the Tunnel's All Right,", 1890 |
| Box 4, Folder 8 | "Crushed in the Tunnel", [1892?] |
| Box 4, Folder 8 | "Twenty Years Labor Lost," (Hudson River Tunnel), 1892 |
| Box 4, Folder 8 | "No Danger in the Hudson River Tunnel,", [1892?] |
| Box 4, Folder 8 | "More Trouble for the Poor Old Tunnel" (Hudson River Tunnel), 1891 |
| Box 4, Folder 8 | "The Hudson River Tunnel,", 1891 |
| Box 4, Folder 8 | "Cash Sunk, Indeed" (Hudson River Tunnel), 1891? |
| Box 4, Folder 8 | "The Hudson River Tunnel All Right,", 1891 |
| Box 4, Folder 8 | "Hudson Tunnel Railway Company of New York,", 1894 |
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| Box 4, Folder 8 | "Under the Hudson River,", 1891 |
| Box 4, Folder 8 | "No Money for the Tunnel,", 1891? |
| Box 4, Folder 8 | "Under the Hudson,", 1889 |
| Box 4, Folder 8 | Scientific American, Vol. LXIII, No. 18 (issue focusing on Hudson River Tunnel), 1890 |
| Box 4, Folder 8 | "The Great Tunnel Under the Hudson River between New York and New Jersey,", 1880 |
| Box 4, Folder 9 | Unidentified Year, undated |

| Box 4, Folder 9 | "Steel Boilers in England", undated |
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| Box 4, Folder 9 | Composition and Use of Cement, undated |
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| Box 4, Folder 9 | 'Sardou to Miss Davenport,", undated |
| Box 4, Folder 9 | Brooklyn Bridge, undated |
| Box 4, Folder 9 | "The Mission Delores,", undated |
| Box 4, Folder 9 | "The Real Port of New York,", undated |
| Box 4, Folder 9 | "The Peabody Institute: Proceedings at a Special Meeting of the Trustees, Held Upon the Occasion of the Death of the President of the Board, S. Teachle Wallis, Esquire,", undated |
| Box 4, Folder 9 | "[] James March Esquire,", undated |
| Box 4, Folder 9 | "Metropolitan Railroad,", undated |
| Box 4, Folder 9 | "North Boundary Avenue BridgeA Plain Statement of Facts", undated |
| Box 4, Folder 9 | "Seacoast Defenses [],", undated |
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| Box 25, Folder 4 | Apotheosis of Washington Capitol Building Dome, undated |
| Box 25, Folder 5 | Construction of second Washington Capitol Building Dome, 1859 |
| Box 25, Folder 6 | Photograph of first dome during the construction of the second Capitol Building Dome, [1855?] |

| Box 25, Folder 7 | Eastern Front Door North Wing of the Washington Capitol Building, 1859? |
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| Box 25, Folder 8 | Peristyle of Dome (Washington Capitol Building), 1857 |
| Box 25, Folder 9 | Cross section of second Washington Capitol Building dome and elevation of new dome, 1859? |
| Box 25, Folder 10 | Early construction photo of new dome on Washington Capitol Building, old dome visible, 1855? |
| Box 25, Folder 11 | Elevation of Dome of Washington Capitol, 1859 |
| Box 25, Folder 12 | Prospectus Drawing of Second Washington Capitol Building Dome, [1854?] |
| Box 25, Folder 13 | Section of Tholus on Dome of United States Capitol (cross section of the Statue of Freedom), 1859 |
| Box 25, Folder 14 | Washington Capitol Dome workers next to construction magnet and shanty, 1855-1865? |
| Box 25, Folder 15 | Tholus on Dome of United States Capitol (Statue of Freedom), 1859 |
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| Box 26, Folder 14 | Engraving of T.N. Talfound by J. Sartain, undated |
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